

Structure of the Cannabinoid Receptor 1: Homology Modeling of Its Inactive State and Enrichment Study Based on CB1 Antagonist Docking

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Supplementary Information

Contents

p.3. **Best model.** Only one model had a reasonable performance in the enrichment study, which was one of the minimized models. Here is its three-dimensional structure in pdb format.

p.118. **Best model with rimonabant docked.** Rimonabant was docked into the best model and the obtained protein–ligand complex was further minimized using the OPLS2005 force field as implemented in the MacroModel program.⁵⁴ The final binding mode is shown in Figure 5 and here is its three-dimensional structure in pdb format.

Best model. Only one model had a reasonable performance in the enrichment study, which was one of the minimized models. Here is its three-dimensional structure in pdb format.

REMARK 888

REMARK 888 WRITTEN BY MAESTRO (A PRODUCT OF SCHRODINGER, LLC)

TITLE CB1_Liu_best_complex

MODEL 1

ATOM	1	N	VAL	1	48.152	-5.635	-28.168	1.00112.67	N1+
ATOM	2	CA	VAL	1	48.147	-4.229	-28.579	1.00112.67	C
ATOM	3	C	VAL	1	47.291	-3.990	-29.849	1.00112.67	C
ATOM	4	O	VAL	1	46.431	-3.119	-29.784	1.00112.67	O
ATOM	5	CB	VAL	1	49.572	-3.581	-28.519	1.00112.67	C
ATOM	6	CG1	VAL	1	50.756	-4.563	-28.666	1.00112.67	C
ATOM	7	CG2	VAL	1	49.777	-2.358	-29.435	1.00112.67	C
ATOM	8	H1	VAL	1	47.295	-6.097	-28.478	1.00 0.00	H
ATOM	9	H2	VAL	1	48.939	-6.137	-28.527	1.00 0.00	H
ATOM	10	H3	VAL	1	48.125	-5.766	-27.136	1.00 0.00	H
ATOM	11	HA	VAL	1	47.566	-3.746	-27.792	1.00 0.00	H
ATOM	12	HB	VAL	1	49.665	-3.199	-27.501	1.00 0.00	H
ATOM	13	HG11	VAL	1	51.703	-4.029	-28.565	1.00 0.00	H
ATOM	14	HG12	VAL	1	50.762	-5.324	-27.885	1.00 0.00	H
ATOM	15	HG13	VAL	1	50.780	-5.061	-29.633	1.00 0.00	H
ATOM	16	HG21	VAL	1	50.723	-1.860	-29.216	1.00 0.00	H
ATOM	17	HG22	VAL	1	49.792	-2.630	-30.491	1.00 0.00	H
ATOM	18	HG23	VAL	1	48.995	-1.610	-29.297	1.00 0.00	H
ATOM	19	N	PRO	2	47.434	-4.732	-30.979	1.00233.47	N
ATOM	20	CA	PRO	2	46.459	-4.658	-32.086	1.00233.47	C
ATOM	21	C	PRO	2	45.160	-5.404	-31.717	1.00233.47	C
ATOM	22	O	PRO	2	44.090	-4.811	-31.662	1.00233.47	O
ATOM	23	CD	PRO	2	48.549	-5.620	-31.324	1.00233.47	C
ATOM	24	CB	PRO	2	47.178	-5.288	-33.289	1.00233.47	C
ATOM	25	CG	PRO	2	48.212	-6.231	-32.688	1.00233.47	C
ATOM	26	HA	PRO	2	46.204	-3.620	-32.314	1.00 0.00	H
ATOM	27	HD3	PRO	2	49.453	-5.017	-31.418	1.00 0.00	H
ATOM	28	HD2	PRO	2	48.726	-6.406	-30.591	1.00 0.00	H
ATOM	29	HB2	PRO	2	46.501	-5.789	-33.984	1.00 0.00	H
ATOM	30	HB3	PRO	2	47.684	-4.502	-33.851	1.00 0.00	H
ATOM	31	HG3	PRO	2	49.091	-6.346	-33.325	1.00 0.00	H
ATOM	32	HG2	PRO	2	47.778	-7.223	-32.559	1.00 0.00	H
ATOM	33	N	ALA	3	45.284	-6.691	-31.373	1.00231.80	N
ATOM	34	CA	ALA	3	44.388	-7.387	-30.456	1.00231.80	C
ATOM	35	C	ALA	3	45.079	-7.310	-29.084	1.00231.80	C
ATOM	36	O	ALA	3	46.313	-7.283	-29.040	1.00231.80	O
ATOM	37	CB	ALA	3	44.309	-8.865	-30.868	1.00231.80	C
ATOM	38	H	ALA	3	46.210	-7.079	-31.440	1.00 0.00	H
ATOM	39	HA	ALA	3	43.395	-6.932	-30.427	1.00 0.00	H
ATOM	40	HB1	ALA	3	43.660	-9.425	-30.194	1.00 0.00	H
ATOM	41	HB2	ALA	3	43.895	-8.965	-31.872	1.00 0.00	H
ATOM	42	HB3	ALA	3	45.287	-9.348	-30.862	1.00 0.00	H
ATOM	43	N	ASP	4	44.305	-7.237	-27.997	1.00321.27	N
ATOM	44	CA	ASP	4	44.686	-6.966	-26.597	1.00321.27	C
ATOM	45	C	ASP	4	44.661	-5.448	-26.338	1.00321.27	C
ATOM	46	O	ASP	4	45.184	-4.680	-27.147	1.00321.27	O
ATOM	47	CB	ASP	4	45.924	-7.755	-26.043	1.00321.27	C
ATOM	48	CG	ASP	4	46.920	-6.932	-25.220	1.00321.27	C

ATOM	49	OD1 ASP	4	46.678	-6.765	-24.013	1.00321.27	O
ATOM	50	OD2 ASP	4	47.904	-6.404	-25.787	1.00321.27	O1-
ATOM	51	H ASP	4	43.311	-7.206	-28.171	1.00 0.00	H
ATOM	52	HA ASP	4	43.838	-7.354	-26.030	1.00 0.00	H
ATOM	53	HB2 ASP	4	45.565	-8.555	-25.396	1.00 0.00	H
ATOM	54	HB3 ASP	4	46.483	-8.270	-26.819	1.00 0.00	H
ATOM	55	N GLN	5	44.088	-5.041	-25.200	1.00216.68	N
ATOM	56	CA GLN	5	44.004	-3.669	-24.713	1.00216.68	C
ATOM	57	C GLN	5	45.408	-3.215	-24.288	1.00216.68	C
ATOM	58	O GLN	5	45.951	-3.740	-23.320	1.00216.68	O
ATOM	59	CB GLN	5	43.056	-3.670	-23.494	1.00216.68	C
ATOM	60	CG GLN	5	41.567	-3.772	-23.886	1.00216.68	C
ATOM	61	CD GLN	5	40.730	-4.421	-22.787	1.00216.68	C
ATOM	62	OE1 GLN	5	40.986	-5.562	-22.418	1.00216.68	O
ATOM	63	NE2 GLN	5	39.740	-3.712	-22.264	1.00216.68	N
ATOM	64	H GLN	5	43.818	-5.754	-24.537	1.00 0.00	H
ATOM	65	HA GLN	5	43.618	-3.015	-25.496	1.00 0.00	H
ATOM	66	HB2 GLN	5	43.338	-4.484	-22.822	1.00 0.00	H
ATOM	67	HB3 GLN	5	43.193	-2.768	-22.897	1.00 0.00	H
ATOM	68	HG2 GLN	5	41.170	-2.793	-24.155	1.00 0.00	H
ATOM	69	HG3 GLN	5	41.450	-4.400	-24.769	1.00 0.00	H
ATOM	70	HE22 GLN	5	39.201	-4.087	-21.492	1.00 0.00	H
ATOM	71	HE21 GLN	5	39.596	-2.741	-22.537	1.00 0.00	H
ATOM	72	N VAL	6	46.001	-2.289	-25.055	1.00166.55	N
ATOM	73	CA VAL	6	47.410	-1.881	-25.070	1.00166.55	C
ATOM	74	C VAL	6	48.080	-1.795	-23.684	1.00166.55	C
ATOM	75	O VAL	6	49.030	-2.530	-23.415	1.00166.55	O
ATOM	76	CB VAL	6	47.593	-0.598	-25.931	1.00166.55	C
ATOM	77	CG1 VAL	6	49.074	-0.265	-26.193	1.00166.55	C
ATOM	78	CG2 VAL	6	46.836	-0.647	-27.273	1.00166.55	C
ATOM	79	H VAL	6	45.440	-1.931	-25.814	1.00 0.00	H
ATOM	80	HA VAL	6	47.923	-2.691	-25.591	1.00 0.00	H
ATOM	81	HB VAL	6	47.172	0.242	-25.376	1.00 0.00	H
ATOM	82	HG11 VAL	6	49.172	0.640	-26.793	1.00 0.00	H
ATOM	83	HG12 VAL	6	49.629	-0.083	-25.272	1.00 0.00	H
ATOM	84	HG13 VAL	6	49.587	-1.062	-26.727	1.00 0.00	H
ATOM	85	HG21 VAL	6	46.987	0.274	-27.837	1.00 0.00	H
ATOM	86	HG22 VAL	6	47.176	-1.469	-27.895	1.00 0.00	H
ATOM	87	HG23 VAL	6	45.760	-0.756	-27.146	1.00 0.00	H
ATOM	88	N ASN	7	47.539	-0.919	-22.831	1.00225.49	N
ATOM	89	CA ASN	7	47.989	-0.501	-21.491	1.00225.49	C
ATOM	90	C ASN	7	48.899	0.732	-21.518	1.00225.49	C
ATOM	91	O ASN	7	49.320	1.208	-20.468	1.00225.49	O
ATOM	92	CB ASN	7	48.471	-1.611	-20.520	1.00225.49	C
ATOM	93	CG ASN	7	47.422	-2.669	-20.191	1.00225.49	C
ATOM	94	OD1 ASN	7	47.625	-3.850	-20.465	1.00225.49	O
ATOM	95	ND2 ASN	7	46.313	-2.295	-19.562	1.00225.49	N
ATOM	96	H ASN	7	46.718	-0.448	-23.180	1.00 0.00	H
ATOM	97	HA ASN	7	47.081	-0.102	-21.037	1.00 0.00	H
ATOM	98	HB2 ASN	7	49.368	-2.092	-20.906	1.00 0.00	H
ATOM	99	HB3 ASN	7	48.778	-1.164	-19.573	1.00 0.00	H
ATOM	100	HD22 ASN	7	45.635	-3.003	-19.328	1.00 0.00	H
ATOM	101	HD21 ASN	7	46.116	-1.327	-19.288	1.00 0.00	H
ATOM	102	N ILE	8	49.157	1.285	-22.707	1.00 75.97	N
ATOM	103	CA ILE	8	49.781	2.578	-22.951	1.00 75.97	C
ATOM	104	C ILE	8	48.943	3.240	-24.052	1.00 75.97	C

ATOM	105	O	ILE	8	48.540	2.559	-24.996	1.00	75.97	O
ATOM	106	CB	ILE	8	51.298	2.439	-23.284	1.00	75.97	C
ATOM	107	CG2	ILE	8	51.936	3.798	-23.657	1.00	75.97	C
ATOM	108	CG1	ILE	8	52.079	1.771	-22.126	1.00	75.97	C
ATOM	109	CD1	ILE	8	53.570	1.546	-22.397	1.00	75.97	C
ATOM	110	H	ILE	8	48.745	0.871	-23.530	1.00	0.00	H
ATOM	111	HA	ILE	8	49.680	3.177	-22.048	1.00	0.00	H
ATOM	112	HB	ILE	8	51.385	1.792	-24.160	1.00	0.00	H
ATOM	113	HG21	ILE	8	52.980	3.693	-23.950	1.00	0.00	H
ATOM	114	HG22	ILE	8	51.441	4.267	-24.507	1.00	0.00	H
ATOM	115	HG23	ILE	8	51.890	4.499	-22.823	1.00	0.00	H
ATOM	116	HG12	ILE	8	51.957	2.359	-21.217	1.00	0.00	H
ATOM	117	HG13	ILE	8	51.653	0.792	-21.907	1.00	0.00	H
ATOM	118	HD11	ILE	8	54.021	0.979	-21.584	1.00	0.00	H
ATOM	119	HD12	ILE	8	53.725	0.975	-23.310	1.00	0.00	H
ATOM	120	HD13	ILE	8	54.126	2.479	-22.472	1.00	0.00	H
ATOM	121	N	THR	9	48.688	4.546	-23.939	1.00	43.10	N
ATOM	122	CA	THR	9	48.015	5.366	-24.941	1.00	43.10	C
ATOM	123	C	THR	9	48.750	6.715	-25.022	1.00	43.10	C
ATOM	124	O	THR	9	49.321	7.179	-24.031	1.00	43.10	O
ATOM	125	CB	THR	9	46.501	5.511	-24.623	1.00	43.10	C
ATOM	126	OG1	THR	9	45.942	4.292	-24.178	1.00	43.10	O
ATOM	127	CG2	THR	9	45.669	5.933	-25.844	1.00	43.10	C
ATOM	128	H	THR	9	49.045	5.045	-23.126	1.00	0.00	H
ATOM	129	HA	THR	9	48.123	4.879	-25.912	1.00	0.00	H
ATOM	130	HB	THR	9	46.361	6.241	-23.824	1.00	0.00	H
ATOM	131	HG1	THR	9	46.370	4.057	-23.354	1.00	0.00	H
ATOM	132	HG21	THR	9	44.606	5.959	-25.603	1.00	0.00	H
ATOM	133	HG22	THR	9	45.941	6.928	-26.197	1.00	0.00	H
ATOM	134	HG23	THR	9	45.795	5.236	-26.673	1.00	0.00	H
ATOM	135	N	GLU	10	48.706	7.356	-26.190	1.00	74.24	N
ATOM	136	CA	GLU	10	49.088	8.737	-26.426	1.00	74.24	C
ATOM	137	C	GLU	10	48.062	9.309	-27.416	1.00	74.24	C
ATOM	138	O	GLU	10	47.479	8.565	-28.209	1.00	74.24	O
ATOM	139	CB	GLU	10	50.600	8.861	-26.762	1.00	74.24	C
ATOM	140	CG	GLU	10	51.131	10.241	-27.220	1.00	74.24	C
ATOM	141	CD	GLU	10	50.930	11.346	-26.193	1.00	74.24	C
ATOM	142	OE1	GLU	10	51.916	11.922	-25.680	1.00	74.24	O
ATOM	143	OE2	GLU	10	49.761	11.667	-25.903	1.00	74.24	O1-
ATOM	144	H	GLU	10	48.155	6.970	-26.948	1.00	0.00	H
ATOM	145	HA	GLU	10	48.919	9.276	-25.491	1.00	0.00	H
ATOM	146	HB2	GLU	10	51.176	8.548	-25.890	1.00	0.00	H
ATOM	147	HB3	GLU	10	50.838	8.143	-27.546	1.00	0.00	H
ATOM	148	HG2	GLU	10	52.197	10.166	-27.439	1.00	0.00	H
ATOM	149	HG3	GLU	10	50.650	10.548	-28.149	1.00	0.00	H
ATOM	150	N	PHE	11	47.799	10.606	-27.295	1.00	125.88	N
ATOM	151	CA	PHE	11	46.729	11.369	-27.915	1.00	125.88	C
ATOM	152	C	PHE	11	47.358	12.667	-28.460	1.00	125.88	C
ATOM	153	O	PHE	11	48.482	12.665	-28.963	1.00	125.88	O
ATOM	154	CB	PHE	11	45.603	11.628	-26.876	1.00	125.88	C
ATOM	155	CG	PHE	11	45.072	10.460	-26.055	1.00	125.88	C
ATOM	156	CD1	PHE	11	43.838	9.863	-26.388	1.00	125.88	C
ATOM	157	CD2	PHE	11	45.763	10.025	-24.902	1.00	125.88	C
ATOM	158	CE1	PHE	11	43.293	8.857	-25.568	1.00	125.88	C
ATOM	159	CE2	PHE	11	45.214	9.026	-24.078	1.00	125.88	C
ATOM	160	CZ	PHE	11	43.977	8.444	-24.410	1.00	125.88	C

ATOM	161	H	PHE	11	48.475	11.127	-26.715	1.00	0.00	H
ATOM	162	HA	PHE	11	46.320	10.812	-28.760	1.00	0.00	H
ATOM	163	HB2	PHE	11	45.930	12.385	-26.165	1.00	0.00	H
ATOM	164	HB3	PHE	11	44.755	12.073	-27.397	1.00	0.00	H
ATOM	165	HD1	PHE	11	43.284	10.198	-27.254	1.00	0.00	H
ATOM	166	HD2	PHE	11	46.715	10.460	-24.634	1.00	0.00	H
ATOM	167	HE1	PHE	11	42.338	8.417	-25.816	1.00	0.00	H
ATOM	168	HE2	PHE	11	45.734	8.717	-23.185	1.00	0.00	H
ATOM	169	HZ	PHE	11	43.546	7.687	-23.769	1.00	0.00	H
ATOM	170	N	TYR	12	46.680	13.813	-28.305	1.00284.13		N
ATOM	171	CA	TYR	12	47.168	15.166	-28.604	1.00284.13		C
ATOM	172	C	TYR	12	48.139	15.645	-27.494	1.00284.13		C
ATOM	173	O	TYR	12	47.897	16.649	-26.817	1.00284.13		O
ATOM	174	CB	TYR	12	45.941	16.103	-28.694	1.00284.13		C
ATOM	175	CG	TYR	12	44.952	15.726	-29.784	1.00284.13		C
ATOM	176	CD1	TYR	12	43.742	15.073	-29.461	1.00284.13		C
ATOM	177	CD2	TYR	12	45.248	16.016	-31.133	1.00284.13		C
ATOM	178	CE1	TYR	12	42.840	14.713	-30.480	1.00284.13		C
ATOM	179	CE2	TYR	12	44.344	15.655	-32.151	1.00284.13		C
ATOM	180	CZ	TYR	12	43.139	15.002	-31.824	1.00284.13		C
ATOM	181	OH	TYR	12	42.260	14.647	-32.804	1.00284.13		O
ATOM	182	H	TYR	12	45.747	13.745	-27.931	1.00	0.00	H
ATOM	183	HA	TYR	12	47.701	15.166	-29.556	1.00	0.00	H
ATOM	184	HB2	TYR	12	45.418	16.142	-27.737	1.00	0.00	H
ATOM	185	HB3	TYR	12	46.273	17.124	-28.889	1.00	0.00	H
ATOM	186	HD1	TYR	12	43.490	14.836	-28.437	1.00	0.00	H
ATOM	187	HD2	TYR	12	46.171	16.513	-31.393	1.00	0.00	H
ATOM	188	HE1	TYR	12	41.916	14.211	-30.226	1.00	0.00	H
ATOM	189	HE2	TYR	12	44.587	15.883	-33.178	1.00	0.00	H
ATOM	190	HH	TYR	12	42.565	14.842	-33.675	1.00	0.00	H
ATOM	191	N	ASN	13	49.188	14.850	-27.257	1.00250.74		N
ATOM	192	CA	ASN	13	50.184	14.899	-26.184	1.00250.74		C
ATOM	193	C	ASN	13	49.543	14.888	-24.794	1.00250.74		C
ATOM	194	O	ASN	13	49.388	15.923	-24.145	1.00250.74		O
ATOM	195	CB	ASN	13	51.301	15.952	-26.366	1.00250.74		C
ATOM	196	CG	ASN	13	52.509	15.435	-27.165	1.00250.74		C
ATOM	197	OD1	ASN	13	53.065	16.164	-27.983	1.00250.74		O
ATOM	198	ND2	ASN	13	53.011	14.223	-26.915	1.00250.74		N
ATOM	199	H	ASN	13	49.222	14.010	-27.834	1.00	0.00	H
ATOM	200	HA	ASN	13	50.654	13.936	-26.255	1.00	0.00	H
ATOM	201	HB2	ASN	13	50.904	16.855	-26.831	1.00	0.00	H
ATOM	202	HB3	ASN	13	51.691	16.265	-25.396	1.00	0.00	H
ATOM	203	HD22	ASN	13	53.814	13.900	-27.428	1.00	0.00	H
ATOM	204	HD21	ASN	13	52.546	13.526	-26.312	1.00	0.00	H
ATOM	205	N	LYS	14	49.097	13.695	-24.403	1.00145.88		N
ATOM	206	CA	LYS	14	48.373	13.331	-23.198	1.00145.88		C
ATOM	207	C	LYS	14	48.842	11.944	-22.709	1.00145.88		C
ATOM	208	O	LYS	14	48.031	11.219	-22.140	1.00145.88		O
ATOM	209	CB	LYS	14	46.838	13.406	-23.419	1.00145.88		C
ATOM	210	CG	LYS	14	46.273	14.683	-24.059	1.00145.88		C
ATOM	211	CD	LYS	14	46.215	15.870	-23.092	1.00145.88		C
ATOM	212	CE	LYS	14	45.860	17.191	-23.790	1.00145.88		C
ATOM	213	NZ	LYS	14	47.041	17.789	-24.436	1.00145.88		N1+
ATOM	214	H	LYS	14	49.327	12.897	-25.026	1.00	0.00	H
ATOM	215	HA	LYS	14	48.642	14.038	-22.412	1.00	0.00	H
ATOM	216	HB2	LYS	14	46.546	12.567	-24.043	1.00	0.00	H

ATOM	217	HB3 LYS	14	46.325	13.244	-22.473	1.00	0.00	H
ATOM	218	HG2 LYS	14	46.807	14.932	-24.971	1.00	0.00	H
ATOM	219	HG3 LYS	14	45.255	14.470	-24.380	1.00	0.00	H
ATOM	220	HD2 LYS	14	45.440	15.640	-22.362	1.00	0.00	H
ATOM	221	HD3 LYS	14	47.142	15.978	-22.528	1.00	0.00	H
ATOM	222	HE2 LYS	14	45.073	17.039	-24.530	1.00	0.00	H
ATOM	223	HE3 LYS	14	45.469	17.904	-23.063	1.00	0.00	H
ATOM	224	HZ1 LYS	14	47.436	17.176	-25.145	1.00	0.00	H
ATOM	225	HZ2 LYS	14	46.787	18.663	-24.863	1.00	0.00	H
ATOM	226	HZ3 LYS	14	47.764	17.964	-23.733	1.00	0.00	H
ATOM	227	N SER	15	50.116	11.577	-22.943	1.00	110.17	N
ATOM	228	CA SER	15	50.805	10.321	-22.607	1.00	110.17	C
ATOM	229	C SER	15	50.299	9.592	-21.343	1.00	110.17	C
ATOM	230	O SER	15	50.430	10.108	-20.229	1.00	110.17	O
ATOM	231	CB SER	15	52.334	10.555	-22.601	1.00	110.17	C
ATOM	232	OG SER	15	52.924	10.293	-23.861	1.00	110.17	O
ATOM	233	H SER	15	50.628	12.169	-23.585	1.00	0.00	H
ATOM	234	HA SER	15	50.584	9.651	-23.440	1.00	0.00	H
ATOM	235	HB2 SER	15	52.584	11.567	-22.281	1.00	0.00	H
ATOM	236	HB3 SER	15	52.817	9.887	-21.886	1.00	0.00	H
ATOM	237	HG SER	15	52.578	10.922	-24.515	1.00	0.00	H
ATOM	238	N LEU	16	49.686	8.417	-21.525	1.00	123.66	N
ATOM	239	CA LEU	16	48.907	7.697	-20.532	1.00	123.66	C
ATOM	240	C LEU	16	49.438	6.265	-20.409	1.00	123.66	C
ATOM	241	O LEU	16	49.408	5.511	-21.378	1.00	123.66	O
ATOM	242	CB LEU	16	47.420	7.751	-20.973	1.00	123.66	C
ATOM	243	CG LEU	16	46.418	6.895	-20.166	1.00	123.66	C
ATOM	244	CD1 LEU	16	46.406	7.244	-18.673	1.00	123.66	C
ATOM	245	CD2 LEU	16	45.002	6.996	-20.750	1.00	123.66	C
ATOM	246	H LEU	16	49.649	8.035	-22.471	1.00	0.00	H
ATOM	247	HA LEU	16	48.998	8.181	-19.560	1.00	0.00	H
ATOM	248	HB2 LEU	16	47.087	8.789	-20.971	1.00	0.00	H
ATOM	249	HB3 LEU	16	47.364	7.433	-22.014	1.00	0.00	H
ATOM	250	HG LEU	16	46.710	5.853	-20.265	1.00	0.00	H
ATOM	251	HD11 LEU	16	45.752	6.575	-18.124	1.00	0.00	H
ATOM	252	HD12 LEU	16	47.390	7.170	-18.213	1.00	0.00	H
ATOM	253	HD13 LEU	16	46.030	8.252	-18.511	1.00	0.00	H
ATOM	254	HD21 LEU	16	44.302	6.362	-20.206	1.00	0.00	H
ATOM	255	HD22 LEU	16	44.621	8.017	-20.706	1.00	0.00	H
ATOM	256	HD23 LEU	16	44.977	6.678	-21.793	1.00	0.00	H
ATOM	257	N SER	17	49.843	5.852	-19.204	1.00	105.76	N
ATOM	258	CA SER	17	50.223	4.482	-18.844	1.00	105.76	C
ATOM	259	C SER	17	48.959	3.663	-18.484	1.00	105.76	C
ATOM	260	O SER	17	48.865	3.062	-17.409	1.00	105.76	O
ATOM	261	CB SER	17	51.150	4.572	-17.612	1.00	105.76	C
ATOM	262	OG SER	17	52.243	5.440	-17.867	1.00	105.76	O
ATOM	263	H SER	17	49.933	6.540	-18.472	1.00	0.00	H
ATOM	264	HA SER	17	50.738	3.991	-19.673	1.00	0.00	H
ATOM	265	HB2 SER	17	50.612	4.944	-16.738	1.00	0.00	H
ATOM	266	HB3 SER	17	51.528	3.582	-17.349	1.00	0.00	H
ATOM	267	HG SER	17	52.737	5.106	-18.603	1.00	0.00	H
ATOM	268	N SER	18	47.961	3.684	-19.371	1.00	86.42	N
ATOM	269	CA SER	18	46.712	2.944	-19.303	1.00	86.42	C
ATOM	270	C SER	18	46.105	2.907	-20.719	1.00	86.42	C
ATOM	271	O SER	18	46.660	3.496	-21.651	1.00	86.42	O
ATOM	272	CB SER	18	45.792	3.572	-18.230	1.00	86.42	C

ATOM	273	OG	SER	18	44.763	2.706	-17.797	1.00	86.42	O
ATOM	274	H	SER	18	48.131	4.138	-20.264	1.00	0.00	H
ATOM	275	HA	SER	18	46.969	1.922	-19.020	1.00	0.00	H
ATOM	276	HB2	SER	18	46.359	3.878	-17.353	1.00	0.00	H
ATOM	277	HB3	SER	18	45.320	4.470	-18.626	1.00	0.00	H
ATOM	278	HG	SER	18	44.955	1.803	-18.113	1.00	0.00	H
ATOM	279	N	PHE	19	44.976	2.220	-20.886	1.00	105.62	N
ATOM	280	CA	PHE	19	44.165	2.131	-22.096	1.00	105.62	C
ATOM	281	C	PHE	19	42.682	2.064	-21.684	1.00	105.62	C
ATOM	282	O	PHE	19	42.357	2.180	-20.499	1.00	105.62	O
ATOM	283	CB	PHE	19	44.701	0.960	-22.960	1.00	105.62	C
ATOM	284	CG	PHE	19	44.077	0.742	-24.332	1.00	105.62	C
ATOM	285	CD1	PHE	19	44.522	1.489	-25.442	1.00	105.62	C
ATOM	286	CD2	PHE	19	43.043	-0.202	-24.505	1.00	105.62	C
ATOM	287	CE1	PHE	19	43.924	1.312	-26.703	1.00	105.62	C
ATOM	288	CE2	PHE	19	42.444	-0.381	-25.766	1.00	105.62	C
ATOM	289	CZ	PHE	19	42.885	0.376	-26.867	1.00	105.62	C
ATOM	290	H	PHE	19	44.581	1.753	-20.071	1.00	0.00	H
ATOM	291	HA	PHE	19	44.266	3.060	-22.658	1.00	0.00	H
ATOM	292	HB2	PHE	19	45.763	1.132	-23.131	1.00	0.00	H
ATOM	293	HB3	PHE	19	44.629	0.030	-22.392	1.00	0.00	H
ATOM	294	HD1	PHE	19	45.320	2.210	-25.338	1.00	0.00	H
ATOM	295	HD2	PHE	19	42.668	-0.762	-23.661	1.00	0.00	H
ATOM	296	HE1	PHE	19	44.261	1.901	-27.544	1.00	0.00	H
ATOM	297	HE2	PHE	19	41.629	-1.082	-25.885	1.00	0.00	H
ATOM	298	HZ	PHE	19	42.417	0.251	-27.834	1.00	0.00	H
ATOM	299	N	LYS	20	41.781	1.845	-22.647	1.00	194.77	N
ATOM	300	CA	LYS	20	40.371	1.516	-22.447	1.00	194.77	C
ATOM	301	C	LYS	20	40.268	0.072	-21.904	1.00	194.77	C
ATOM	302	O	LYS	20	40.079	-0.884	-22.658	1.00	194.77	O
ATOM	303	CB	LYS	20	39.635	1.653	-23.799	1.00	194.77	C
ATOM	304	CG	LYS	20	39.502	3.104	-24.304	1.00	194.77	C
ATOM	305	CD	LYS	20	38.416	3.905	-23.567	1.00	194.77	C
ATOM	306	CE	LYS	20	38.196	5.309	-24.157	1.00	194.77	C
ATOM	307	NZ	LYS	20	37.033	5.968	-23.560	1.00	194.77	N1+
ATOM	308	H	LYS	20	42.129	1.747	-23.591	1.00	0.00	H
ATOM	309	HA	LYS	20	39.941	2.209	-21.729	1.00	0.00	H
ATOM	310	HB2	LYS	20	40.146	1.057	-24.556	1.00	0.00	H
ATOM	311	HB3	LYS	20	38.635	1.218	-23.722	1.00	0.00	H
ATOM	312	HG2	LYS	20	40.459	3.625	-24.249	1.00	0.00	H
ATOM	313	HG3	LYS	20	39.235	3.070	-25.362	1.00	0.00	H
ATOM	314	HD2	LYS	20	37.482	3.345	-23.614	1.00	0.00	H
ATOM	315	HD3	LYS	20	38.663	3.994	-22.509	1.00	0.00	H
ATOM	316	HE2	LYS	20	39.074	5.933	-23.992	1.00	0.00	H
ATOM	317	HE3	LYS	20	38.027	5.256	-25.233	1.00	0.00	H
ATOM	318	HZ1	LYS	20	36.219	5.903	-24.204	1.00	0.00	H
ATOM	319	HZ2	LYS	20	36.749	5.503	-22.707	1.00	0.00	H
ATOM	320	HZ3	LYS	20	37.205	6.968	-23.345	1.00	0.00	H
ATOM	321	N	GLU	21	40.518	-0.083	-20.600	1.00	108.17	N
ATOM	322	CA	GLU	21	40.671	-1.358	-19.903	1.00	108.17	C
ATOM	323	C	GLU	21	39.345	-1.865	-19.306	1.00	108.17	C
ATOM	324	O	GLU	21	39.194	-3.077	-19.167	1.00	108.17	O
ATOM	325	CB	GLU	21	41.666	-1.136	-18.746	1.00	108.17	C
ATOM	326	CG	GLU	21	43.122	-1.025	-19.248	1.00	108.17	C
ATOM	327	CD	GLU	21	44.057	-0.335	-18.268	1.00	108.17	C
ATOM	328	OE1	GLU	21	43.775	-0.316	-17.052	1.00	108.17	O

ATOM	329	OE2	GLU	21	45.072	0.232	-18.734	1.00108.17	O1-
ATOM	330	H	GLU	21	40.770	0.756	-20.090	1.00 0.00	H
ATOM	331	HA	GLU	21	41.065	-2.124	-20.572	1.00 0.00	H
ATOM	332	HB2	GLU	21	41.382	-0.249	-18.175	1.00 0.00	H
ATOM	333	HB3	GLU	21	41.617	-1.965	-18.037	1.00 0.00	H
ATOM	334	HG2	GLU	21	43.507	-2.018	-19.475	1.00 0.00	H
ATOM	335	HG3	GLU	21	43.158	-0.463	-20.180	1.00 0.00	H
ATOM	336	N	ASN	22	38.409	-0.967	-18.968	1.00156.52	N
ATOM	337	CA	ASN	22	37.114	-1.308	-18.369	1.00156.52	C
ATOM	338	C	ASN	22	36.054	-1.396	-19.481	1.00156.52	C
ATOM	339	O	ASN	22	36.099	-2.325	-20.286	1.00156.52	O
ATOM	340	CB	ASN	22	36.694	-0.284	-17.276	1.00156.52	C
ATOM	341	CG	ASN	22	37.516	-0.321	-15.992	1.00156.52	C
ATOM	342	OD1	ASN	22	38.222	-1.278	-15.694	1.00156.52	O
ATOM	343	ND2	ASN	22	37.442	0.732	-15.192	1.00156.52	N
ATOM	344	H	ASN	22	38.578	0.002	-19.188	1.00 0.00	H
ATOM	345	HA	ASN	22	37.157	-2.298	-17.907	1.00 0.00	H
ATOM	346	HB2	ASN	22	36.696	0.732	-17.671	1.00 0.00	H
ATOM	347	HB3	ASN	22	35.672	-0.489	-16.957	1.00 0.00	H
ATOM	348	HD22	ASN	22	37.926	0.707	-14.316	1.00 0.00	H
ATOM	349	HD21	ASN	22	36.863	1.542	-15.433	1.00 0.00	H
ATOM	350	N	GLU	23	35.086	-0.473	-19.512	1.00200.79	N
ATOM	351	CA	GLU	23	33.913	-0.465	-20.369	1.00200.79	C
ATOM	352	C	GLU	23	34.171	0.498	-21.535	1.00200.79	C
ATOM	353	O	GLU	23	34.348	0.042	-22.662	1.00200.79	O
ATOM	354	CB	GLU	23	32.633	-0.036	-19.576	1.00200.79	C
ATOM	355	CG	GLU	23	32.747	0.146	-18.039	1.00200.79	C
ATOM	356	CD	GLU	23	33.530	1.378	-17.583	1.00200.79	C
ATOM	357	OE1	GLU	23	34.320	1.909	-18.397	1.00200.79	O
ATOM	358	OE2	GLU	23	33.388	1.721	-16.393	1.00200.79	O1-
ATOM	359	H	GLU	23	35.121	0.337	-18.890	1.00 0.00	H
ATOM	360	HA	GLU	23	33.751	-1.462	-20.784	1.00 0.00	H
ATOM	361	HB2	GLU	23	32.181	0.870	-19.983	1.00 0.00	H
ATOM	362	HB3	GLU	23	31.877	-0.800	-19.757	1.00 0.00	H
ATOM	363	HG2	GLU	23	31.745	0.237	-17.621	1.00 0.00	H
ATOM	364	HG3	GLU	23	33.186	-0.738	-17.578	1.00 0.00	H
ATOM	365	N	GLU	24	34.187	1.811	-21.260	1.00122.93	N
ATOM	366	CA	GLU	24	34.441	2.865	-22.240	1.00122.93	C
ATOM	367	C	GLU	24	34.803	4.194	-21.555	1.00122.93	C
ATOM	368	O	GLU	24	35.988	4.524	-21.451	1.00122.93	O
ATOM	369	CB	GLU	24	33.347	2.919	-23.354	1.00122.93	C
ATOM	370	CG	GLU	24	33.305	4.142	-24.306	1.00122.93	C
ATOM	371	CD	GLU	24	34.649	4.532	-24.913	1.00122.93	C
ATOM	372	OE1	GLU	24	35.494	3.646	-25.138	1.00122.93	O
ATOM	373	OE2	GLU	24	34.923	5.748	-24.995	1.00122.93	O1-
ATOM	374	H	GLU	24	34.142	2.067	-20.268	1.00 0.00	H
ATOM	375	HA	GLU	24	35.360	2.567	-22.748	1.00 0.00	H
ATOM	376	HB2	GLU	24	33.453	2.036	-23.984	1.00 0.00	H
ATOM	377	HB3	GLU	24	32.366	2.829	-22.889	1.00 0.00	H
ATOM	378	HG2	GLU	24	32.617	3.945	-25.127	1.00 0.00	H
ATOM	379	HG3	GLU	24	32.901	5.004	-23.782	1.00 0.00	H
ATOM	380	N	ASN	25	33.801	4.995	-21.162	1.00139.41	N
ATOM	381	CA	ASN	25	33.984	6.418	-20.841	1.00139.41	C
ATOM	382	C	ASN	25	34.148	6.705	-19.347	1.00139.41	C
ATOM	383	O	ASN	25	33.472	6.102	-18.516	1.00139.41	O
ATOM	384	CB	ASN	25	32.778	7.277	-21.309	1.00139.41	C

ATOM	385	CG	ASN	25	32.830	7.652	-22.786	1.00139.41	C
ATOM	386	OD1	ASN	25	31.877	7.407	-23.519	1.00139.41	O
ATOM	387	ND2	ASN	25	33.907	8.291	-23.226	1.00139.41	N
ATOM	388	H	ASN	25	32.861	4.640	-21.223	1.00 0.00	H
ATOM	389	HA	ASN	25	34.886	6.741	-21.348	1.00 0.00	H
ATOM	390	HB2	ASN	25	31.838	6.769	-21.090	1.00 0.00	H
ATOM	391	HB3	ASN	25	32.736	8.225	-20.770	1.00 0.00	H
ATOM	392	HD22	ASN	25	34.037	8.370	-24.221	1.00 0.00	H
ATOM	393	HD21	ASN	25	34.681	8.540	-22.585	1.00 0.00	H
ATOM	394	N	ILE	26	35.000	7.697	-19.039	1.00139.04	N
ATOM	395	CA	ILE	26	35.267	8.450	-17.798	1.00139.04	C
ATOM	396	C	ILE	26	35.656	7.619	-16.556	1.00139.04	C
ATOM	397	O	ILE	26	36.544	8.014	-15.800	1.00139.04	O
ATOM	398	CB	ILE	26	34.160	9.502	-17.491	1.00139.04	C
ATOM	399	CG2	ILE	26	34.096	10.558	-18.612	1.00139.04	C
ATOM	400	CG1	ILE	26	32.758	8.921	-17.185	1.00139.04	C
ATOM	401	CD1	ILE	26	31.816	9.912	-16.486	1.00139.04	C
ATOM	402	H	ILE	26	35.401	8.139	-19.878	1.00 0.00	H
ATOM	403	HA	ILE	26	36.173	9.014	-18.023	1.00 0.00	H
ATOM	404	HB	ILE	26	34.490	10.026	-16.591	1.00 0.00	H
ATOM	405	HG21	ILE	26	33.433	11.384	-18.360	1.00 0.00	H
ATOM	406	HG22	ILE	26	35.082	10.984	-18.799	1.00 0.00	H
ATOM	407	HG23	ILE	26	33.750	10.128	-19.552	1.00 0.00	H
ATOM	408	HG12	ILE	26	32.291	8.564	-18.103	1.00 0.00	H
ATOM	409	HG13	ILE	26	32.849	8.048	-16.541	1.00 0.00	H
ATOM	410	HD11	ILE	26	30.870	9.429	-16.241	1.00 0.00	H
ATOM	411	HD12	ILE	26	32.249	10.281	-15.556	1.00 0.00	H
ATOM	412	HD13	ILE	26	31.590	10.769	-17.120	1.00 0.00	H
ATOM	413	N	GLN	27	35.058	6.441	-16.373	1.00 60.02	N
ATOM	414	CA	GLN	27	35.330	5.417	-15.365	1.00 60.02	C
ATOM	415	C	GLN	27	36.516	4.528	-15.801	1.00 60.02	C
ATOM	416	O	GLN	27	36.644	3.382	-15.377	1.00 60.02	O
ATOM	417	CB	GLN	27	34.069	4.534	-15.263	1.00 60.02	C
ATOM	418	CG	GLN	27	32.845	5.244	-14.656	1.00 60.02	C
ATOM	419	CD	GLN	27	31.619	4.344	-14.470	1.00 60.02	C
ATOM	420	OE1	GLN	27	30.642	4.769	-13.862	1.00 60.02	O
ATOM	421	NE2	GLN	27	31.627	3.103	-14.945	1.00 60.02	N
ATOM	422	H	GLN	27	34.380	6.184	-17.097	1.00 0.00	H
ATOM	423	HA	GLN	27	35.561	5.863	-14.400	1.00 0.00	H
ATOM	424	HB2	GLN	27	33.818	4.167	-16.260	1.00 0.00	H
ATOM	425	HB3	GLN	27	34.279	3.651	-14.657	1.00 0.00	H
ATOM	426	HG2	GLN	27	33.103	5.665	-13.684	1.00 0.00	H
ATOM	427	HG3	GLN	27	32.544	6.078	-15.289	1.00 0.00	H
ATOM	428	HE22	GLN	27	30.814	2.531	-14.822	1.00 0.00	H
ATOM	429	HE21	GLN	27	32.422	2.704	-15.490	1.00 0.00	H
ATOM	430	N	CYS	28	37.380	5.049	-16.673	1.00179.95	N
ATOM	431	CA	CYS	28	38.330	4.309	-17.482	1.00179.95	C
ATOM	432	C	CYS	28	39.535	5.229	-17.762	1.00179.95	C
ATOM	433	O	CYS	28	39.866	6.081	-16.929	1.00179.95	O
ATOM	434	CB	CYS	28	37.553	3.779	-18.711	1.00179.95	C
ATOM	435	SG	CYS	28	38.370	2.366	-19.492	1.00179.95	S
ATOM	436	H	CYS	28	37.261	6.025	-16.899	1.00 0.00	H
ATOM	437	HA	CYS	28	38.703	3.464	-16.901	1.00 0.00	H
ATOM	438	HB2	CYS	28	36.552	3.442	-18.435	1.00 0.00	H
ATOM	439	HB3	CYS	28	37.419	4.578	-19.438	1.00 0.00	H
ATOM	440	HG	CYS	28	37.380	2.156	-20.372	1.00 0.00	H

ATOM	441	N	GLY	29	40.179	5.070	-18.923	1.00	54.55	N
ATOM	442	CA	GLY	29	41.270	5.895	-19.422	1.00	54.55	C
ATOM	443	C	GLY	29	40.803	6.616	-20.684	1.00	54.55	C
ATOM	444	O	GLY	29	40.361	5.968	-21.632	1.00	54.55	O
ATOM	445	H	GLY	29	39.825	4.379	-19.571	1.00	0.00	H
ATOM	446	HA2	GLY	29	41.618	6.613	-18.680	1.00	0.00	H
ATOM	447	HA3	GLY	29	42.114	5.251	-19.672	1.00	0.00	H
ATOM	448	N	GLU	30	40.876	7.949	-20.660	1.00	105.71	N
ATOM	449	CA	GLU	30	40.383	8.883	-21.668	1.00	105.71	C
ATOM	450	C	GLU	30	41.536	9.780	-22.150	1.00	105.71	C
ATOM	451	O	GLU	30	42.695	9.572	-21.779	1.00	105.71	O
ATOM	452	CB	GLU	30	39.283	9.749	-21.008	1.00	105.71	C
ATOM	453	CG	GLU	30	38.039	8.980	-20.533	1.00	105.71	C
ATOM	454	CD	GLU	30	37.051	8.734	-21.655	1.00	105.71	C
ATOM	455	OE1	GLU	30	37.483	8.356	-22.763	1.00	105.71	O
ATOM	456	OE2	GLU	30	35.842	8.871	-21.387	1.00	105.71	O1-
ATOM	457	H	GLU	30	41.302	8.387	-19.857	1.00	0.00	H
ATOM	458	HA	GLU	30	39.993	8.349	-22.535	1.00	0.00	H
ATOM	459	HB2	GLU	30	39.697	10.305	-20.167	1.00	0.00	H
ATOM	460	HB3	GLU	30	38.942	10.508	-21.711	1.00	0.00	H
ATOM	461	HG2	GLU	30	38.289	8.035	-20.054	1.00	0.00	H
ATOM	462	HG3	GLU	30	37.525	9.571	-19.782	1.00	0.00	H
ATOM	463	N	ASN	31	41.209	10.819	-22.937	1.00	80.37	N
ATOM	464	CA	ASN	31	42.097	11.910	-23.364	1.00	80.37	C
ATOM	465	C	ASN	31	42.524	12.683	-22.098	1.00	80.37	C
ATOM	466	O	ASN	31	41.773	13.493	-21.555	1.00	80.37	O
ATOM	467	CB	ASN	31	41.347	12.820	-24.372	1.00	80.37	C
ATOM	468	CG	ASN	31	42.254	13.413	-25.456	1.00	80.37	C
ATOM	469	OD1	ASN	31	42.455	12.816	-26.507	1.00	80.37	O
ATOM	470	ND2	ASN	31	42.796	14.606	-25.272	1.00	80.37	N
ATOM	471	H	ASN	31	40.228	10.911	-23.156	1.00	0.00	H
ATOM	472	HA	ASN	31	42.967	11.459	-23.848	1.00	0.00	H
ATOM	473	HB2	ASN	31	40.595	12.236	-24.904	1.00	0.00	H
ATOM	474	HB3	ASN	31	40.791	13.619	-23.878	1.00	0.00	H
ATOM	475	HD22	ASN	31	43.261	15.055	-26.035	1.00	0.00	H
ATOM	476	HD21	ASN	31	42.712	15.140	-24.380	1.00	0.00	H
ATOM	477	N	PHE	32	43.690	12.298	-21.568	1.00	126.61	N
ATOM	478	CA	PHE	32	44.126	12.332	-20.166	1.00	126.61	C
ATOM	479	C	PHE	32	44.387	13.741	-19.571	1.00	126.61	C
ATOM	480	O	PHE	32	45.324	13.935	-18.793	1.00	126.61	O
ATOM	481	CB	PHE	32	45.394	11.434	-20.130	1.00	126.61	C
ATOM	482	CG	PHE	32	46.041	11.016	-18.816	1.00	126.61	C
ATOM	483	CD1	PHE	32	47.412	10.675	-18.820	1.00	126.61	C
ATOM	484	CD2	PHE	32	45.307	10.905	-17.617	1.00	126.61	C
ATOM	485	CE1	PHE	32	48.050	10.234	-17.647	1.00	126.61	C
ATOM	486	CE2	PHE	32	45.941	10.451	-16.444	1.00	126.61	C
ATOM	487	CZ	PHE	32	47.310	10.117	-16.458	1.00	126.61	C
ATOM	488	H	PHE	32	44.125	11.566	-22.112	1.00	0.00	H
ATOM	489	HA	PHE	32	43.333	11.869	-19.577	1.00	0.00	H
ATOM	490	HB2	PHE	32	45.182	10.502	-20.657	1.00	0.00	H
ATOM	491	HB3	PHE	32	46.163	11.934	-20.711	1.00	0.00	H
ATOM	492	HD1	PHE	32	47.981	10.725	-19.737	1.00	0.00	H
ATOM	493	HD2	PHE	32	44.252	11.136	-17.589	1.00	0.00	H
ATOM	494	HE1	PHE	32	49.094	9.952	-17.676	1.00	0.00	H
ATOM	495	HE2	PHE	32	45.366	10.326	-15.538	1.00	0.00	H
ATOM	496	HZ	PHE	32	47.781	9.737	-15.562	1.00	0.00	H

ATOM	497	N	MET	33	43.567	14.734	-19.907	1.00175.00	N
ATOM	498	CA	MET	33	43.550	16.091	-19.361	1.00175.00	C
ATOM	499	C	MET	33	42.149	16.665	-19.532	1.00175.00	C
ATOM	500	O	MET	33	41.564	17.228	-18.607	1.00175.00	O
ATOM	501	CB	MET	33	44.598	16.976	-20.074	1.00175.00	C
ATOM	502	CG	MET	33	44.951	18.315	-19.403	1.00175.00	C
ATOM	503	SD	MET	33	43.742	19.669	-19.326	1.00175.00	S
ATOM	504	CE	MET	33	43.493	20.019	-21.086	1.00175.00	C
ATOM	505	H	MET	33	42.786	14.470	-20.514	1.00 0.00	H
ATOM	506	HA	MET	33	43.769	16.031	-18.295	1.00 0.00	H
ATOM	507	HB2	MET	33	45.523	16.407	-20.154	1.00 0.00	H
ATOM	508	HB3	MET	33	44.291	17.169	-21.100	1.00 0.00	H
ATOM	509	HG2	MET	33	45.317	18.127	-18.398	1.00 0.00	H
ATOM	510	HG3	MET	33	45.789	18.730	-19.949	1.00 0.00	H
ATOM	511	HE1	MET	33	42.829	20.874	-21.212	1.00 0.00	H
ATOM	512	HE2	MET	33	44.438	20.237	-21.583	1.00 0.00	H
ATOM	513	HE3	MET	33	43.031	19.167	-21.577	1.00 0.00	H
ATOM	514	N	ASP	34	41.692	16.563	-20.776	1.00 75.73	N
ATOM	515	CA	ASP	34	40.578	17.256	-21.404	1.00 75.73	C
ATOM	516	C	ASP	34	39.262	16.524	-21.093	1.00 75.73	C
ATOM	517	O	ASP	34	38.194	17.124	-21.180	1.00 75.73	O
ATOM	518	CB	ASP	34	40.802	17.289	-22.956	1.00 75.73	C
ATOM	519	CG	ASP	34	42.261	17.226	-23.431	1.00 75.73	C
ATOM	520	OD1	ASP	34	42.895	16.172	-23.181	1.00 75.73	O
ATOM	521	OD2	ASP	34	42.789	18.204	-23.996	1.00 75.73	O1-
ATOM	522	H	ASP	34	42.301	16.115	-21.464	1.00 0.00	H
ATOM	523	HA	ASP	34	40.530	18.274	-21.015	1.00 0.00	H
ATOM	524	HB2	ASP	34	40.299	16.445	-23.430	1.00 0.00	H
ATOM	525	HB3	ASP	34	40.331	18.180	-23.371	1.00 0.00	H
ATOM	526	N	ILE	35	39.358	15.246	-20.702	1.00120.51	N
ATOM	527	CA	ILE	35	38.315	14.388	-20.160	1.00120.51	C
ATOM	528	C	ILE	35	38.894	13.752	-18.874	1.00120.51	C
ATOM	529	O	ILE	35	40.108	13.535	-18.775	1.00120.51	O
ATOM	530	CB	ILE	35	37.869	13.345	-21.229	1.00120.51	C
ATOM	531	CG2	ILE	35	36.763	12.398	-20.727	1.00120.51	C
ATOM	532	CG1	ILE	35	37.472	13.941	-22.603	1.00120.51	C
ATOM	533	CD1	ILE	35	36.171	14.761	-22.605	1.00120.51	C
ATOM	534	H	ILE	35	40.290	14.854	-20.641	1.00 0.00	H
ATOM	535	HA	ILE	35	37.461	15.003	-19.872	1.00 0.00	H
ATOM	536	HB	ILE	35	38.747	12.728	-21.421	1.00 0.00	H
ATOM	537	HG21	ILE	35	36.451	11.700	-21.505	1.00 0.00	H
ATOM	538	HG22	ILE	35	37.102	11.795	-19.887	1.00 0.00	H
ATOM	539	HG23	ILE	35	35.878	12.944	-20.401	1.00 0.00	H
ATOM	540	HG12	ILE	35	38.283	14.552	-22.999	1.00 0.00	H
ATOM	541	HG13	ILE	35	37.361	13.125	-23.319	1.00 0.00	H
ATOM	542	HD11	ILE	35	35.996	15.200	-23.587	1.00 0.00	H
ATOM	543	HD12	ILE	35	35.306	14.144	-22.367	1.00 0.00	H
ATOM	544	HD13	ILE	35	36.208	15.579	-21.885	1.00 0.00	H
ATOM	545	N	GLU	36	38.029	13.453	-17.896	1.00 67.30	N
ATOM	546	CA	GLU	36	38.380	12.865	-16.602	1.00 67.30	C
ATOM	547	C	GLU	36	38.740	11.371	-16.736	1.00 67.30	C
ATOM	548	O	GLU	36	38.460	10.740	-17.751	1.00 67.30	O
ATOM	549	CB	GLU	36	37.196	13.024	-15.617	1.00 67.30	C
ATOM	550	CG	GLU	36	36.606	14.448	-15.487	1.00 67.30	C
ATOM	551	CD	GLU	36	37.658	15.515	-15.217	1.00 67.30	C
ATOM	552	OE1	GLU	36	37.990	15.789	-14.044	1.00 67.30	O

ATOM	553	OE2 GLU	36	38.189	16.072	-16.195	1.00	67.30	O1-
ATOM	554	H GLU	36	37.061	13.682	-18.043	1.00	0.00	H
ATOM	555	HA GLU	36	39.254	13.394	-16.215	1.00	0.00	H
ATOM	556	HB2 GLU	36	36.392	12.343	-15.897	1.00	0.00	H
ATOM	557	HB3 GLU	36	37.525	12.703	-14.628	1.00	0.00	H
ATOM	558	HG2 GLU	36	36.072	14.722	-16.397	1.00	0.00	H
ATOM	559	HG3 GLU	36	35.871	14.476	-14.684	1.00	0.00	H
ATOM	560	N CYS	37	39.407	10.811	-15.722	1.00	82.72	N
ATOM	561	CA CYS	37	40.171	9.565	-15.821	1.00	82.72	C
ATOM	562	C CYS	37	40.047	8.710	-14.549	1.00	82.72	C
ATOM	563	O CYS	37	41.047	8.298	-13.958	1.00	82.72	O
ATOM	564	CB CYS	37	41.614	9.909	-16.267	1.00	82.72	C
ATOM	565	SG CYS	37	41.763	9.836	-18.075	1.00	82.72	S
ATOM	566	H CYS	37	39.532	11.361	-14.886	1.00	0.00	H
ATOM	567	HA CYS	37	39.725	8.922	-16.584	1.00	0.00	H
ATOM	568	HB2 CYS	37	41.906	10.902	-15.921	1.00	0.00	H
ATOM	569	HB3 CYS	37	42.348	9.228	-15.848	1.00	0.00	H
ATOM	570	HG CYS	37	40.676	10.587	-18.321	1.00	0.00	H
ATOM	571	N PHE	38	38.809	8.461	-14.103	1.00	130.26	N
ATOM	572	CA PHE	38	38.464	7.902	-12.792	1.00	130.26	C
ATOM	573	C PHE	38	38.757	6.394	-12.629	1.00	130.26	C
ATOM	574	O PHE	38	38.516	5.843	-11.550	1.00	130.26	O
ATOM	575	CB PHE	38	36.971	8.168	-12.504	1.00	130.26	C
ATOM	576	CG PHE	38	36.561	9.634	-12.494	1.00	130.26	C
ATOM	577	CD1 PHE	38	35.477	10.064	-13.289	1.00	130.26	C
ATOM	578	CD2 PHE	38	37.249	10.570	-11.691	1.00	130.26	C
ATOM	579	CE1 PHE	38	35.080	11.415	-13.275	1.00	130.26	C
ATOM	580	CE2 PHE	38	36.855	11.922	-11.682	1.00	130.26	C
ATOM	581	CZ PHE	38	35.767	12.343	-12.470	1.00	130.26	C
ATOM	582	H PHE	38	38.027	8.719	-14.703	1.00	0.00	H
ATOM	583	HA PHE	38	39.068	8.412	-12.040	1.00	0.00	H
ATOM	584	HB2 PHE	38	36.356	7.629	-13.223	1.00	0.00	H
ATOM	585	HB3 PHE	38	36.699	7.757	-11.531	1.00	0.00	H
ATOM	586	HD1 PHE	38	34.943	9.363	-13.916	1.00	0.00	H
ATOM	587	HD2 PHE	38	38.086	10.263	-11.081	1.00	0.00	H
ATOM	588	HE1 PHE	38	34.254	11.741	-13.891	1.00	0.00	H
ATOM	589	HE2 PHE	38	37.389	12.641	-11.079	1.00	0.00	H
ATOM	590	HZ PHE	38	35.474	13.384	-12.472	1.00	0.00	H
ATOM	591	N MET	39	39.338	5.735	-13.640	1.00	155.86	N
ATOM	592	CA MET	39	40.064	4.475	-13.489	1.00	155.86	C
ATOM	593	C MET	39	41.333	4.462	-14.345	1.00	155.86	C
ATOM	594	O MET	39	41.721	3.430	-14.889	1.00	155.86	O
ATOM	595	CB MET	39	39.170	3.217	-13.553	1.00	155.86	C
ATOM	596	CG MET	39	39.535	2.121	-12.527	1.00	155.86	C
ATOM	597	SD MET	39	41.121	1.249	-12.731	1.00	155.86	S
ATOM	598	CE MET	39	40.730	0.146	-14.118	1.00	155.86	C
ATOM	599	H MET	39	39.452	6.223	-14.521	1.00	0.00	H
ATOM	600	HA MET	39	40.475	4.496	-12.477	1.00	0.00	H
ATOM	601	HB2 MET	39	38.144	3.511	-13.336	1.00	0.00	H
ATOM	602	HB3 MET	39	39.155	2.812	-14.565	1.00	0.00	H
ATOM	603	HG2 MET	39	39.538	2.562	-11.531	1.00	0.00	H
ATOM	604	HG3 MET	39	38.746	1.369	-12.508	1.00	0.00	H
ATOM	605	HE1 MET	39	41.603	-0.443	-14.401	1.00	0.00	H
ATOM	606	HE2 MET	39	39.938	-0.549	-13.837	1.00	0.00	H
ATOM	607	HE3 MET	39	40.403	0.710	-14.992	1.00	0.00	H
ATOM	608	N VAL	40	42.038	5.597	-14.397	1.00	52.99	N

ATOM	609	CA	VAL	40	43.499	5.589	-14.421	1.00	52.99	C
ATOM	610	C	VAL	40	43.945	5.567	-12.945	1.00	52.99	C
ATOM	611	O	VAL	40	44.808	4.775	-12.577	1.00	52.99	O
ATOM	612	CB	VAL	40	44.052	6.831	-15.160	1.00	52.99	C
ATOM	613	CG1	VAL	40	45.592	6.824	-15.233	1.00	52.99	C
ATOM	614	CG2	VAL	40	43.473	6.910	-16.583	1.00	52.99	C
ATOM	615	H	VAL	40	41.593	6.447	-14.062	1.00	0.00	H
ATOM	616	HA	VAL	40	43.868	4.694	-14.920	1.00	0.00	H
ATOM	617	HB	VAL	40	43.751	7.731	-14.621	1.00	0.00	H
ATOM	618	HG11	VAL	40	45.962	7.695	-15.772	1.00	0.00	H
ATOM	619	HG12	VAL	40	46.053	6.847	-14.246	1.00	0.00	H
ATOM	620	HG13	VAL	40	45.963	5.936	-15.746	1.00	0.00	H
ATOM	621	HG21	VAL	40	43.876	7.760	-17.134	1.00	0.00	H
ATOM	622	HG22	VAL	40	43.687	6.005	-17.153	1.00	0.00	H
ATOM	623	HG23	VAL	40	42.390	7.026	-16.564	1.00	0.00	H
ATOM	624	N	LEU	41	43.279	6.353	-12.089	1.00	158.71	N
ATOM	625	CA	LEU	41	43.250	6.215	-10.641	1.00	158.71	C
ATOM	626	C	LEU	41	41.873	6.711	-10.181	1.00	158.71	C
ATOM	627	O	LEU	41	41.251	7.524	-10.861	1.00	158.71	O
ATOM	628	CB	LEU	41	44.472	6.913	-10.002	1.00	158.71	C
ATOM	629	CG	LEU	41	44.657	6.721	-8.481	1.00	158.71	C
ATOM	630	CD1	LEU	41	44.882	5.244	-8.114	1.00	158.71	C
ATOM	631	CD2	LEU	41	45.831	7.575	-7.982	1.00	158.71	C
ATOM	632	H	LEU	41	42.579	6.996	-12.447	1.00	0.00	H
ATOM	633	HA	LEU	41	43.294	5.147	-10.423	1.00	0.00	H
ATOM	634	HB2	LEU	41	45.375	6.555	-10.495	1.00	0.00	H
ATOM	635	HB3	LEU	41	44.414	7.979	-10.222	1.00	0.00	H
ATOM	636	HG	LEU	41	43.765	7.076	-7.965	1.00	0.00	H
ATOM	637	HD11	LEU	41	45.132	5.132	-7.061	1.00	0.00	H
ATOM	638	HD12	LEU	41	43.998	4.635	-8.299	1.00	0.00	H
ATOM	639	HD13	LEU	41	45.705	4.816	-8.687	1.00	0.00	H
ATOM	640	HD21	LEU	41	45.945	7.513	-6.901	1.00	0.00	H
ATOM	641	HD22	LEU	41	46.774	7.261	-8.432	1.00	0.00	H
ATOM	642	HD23	LEU	41	45.692	8.628	-8.225	1.00	0.00	H
ATOM	643	N	ASN	42	41.361	6.210	-9.053	1.00	66.45	N
ATOM	644	CA	ASN	42	40.045	6.604	-8.533	1.00	66.45	C
ATOM	645	C	ASN	42	40.153	7.965	-7.819	1.00	66.45	C
ATOM	646	O	ASN	42	41.176	8.213	-7.171	1.00	66.45	O
ATOM	647	CB	ASN	42	39.534	5.556	-7.519	1.00	66.45	C
ATOM	648	CG	ASN	42	39.268	4.165	-8.100	1.00	66.45	C
ATOM	649	OD1	ASN	42	39.544	3.175	-7.438	1.00	66.45	O
ATOM	650	ND2	ASN	42	38.711	4.039	-9.302	1.00	66.45	N
ATOM	651	H	ASN	42	41.914	5.557	-8.521	1.00	0.00	H
ATOM	652	HA	ASN	42	39.346	6.686	-9.362	1.00	0.00	H
ATOM	653	HB2	ASN	42	40.246	5.453	-6.698	1.00	0.00	H
ATOM	654	HB3	ASN	42	38.602	5.889	-7.062	1.00	0.00	H
ATOM	655	HD22	ASN	42	38.503	3.104	-9.613	1.00	0.00	H
ATOM	656	HD21	ASN	42	38.537	4.821	-9.934	1.00	0.00	H
ATOM	657	N	PRO	43	39.119	8.838	-7.878	1.00	74.88	N
ATOM	658	CA	PRO	43	39.205	10.230	-7.408	1.00	74.88	C
ATOM	659	C	PRO	43	39.496	10.391	-5.904	1.00	74.88	C
ATOM	660	O	PRO	43	40.226	11.299	-5.511	1.00	74.88	O
ATOM	661	CD	PRO	43	37.782	8.542	-8.400	1.00	74.88	C
ATOM	662	CB	PRO	43	37.899	10.903	-7.851	1.00	74.88	C
ATOM	663	CG	PRO	43	36.917	9.765	-8.084	1.00	74.88	C
ATOM	664	HA	PRO	43	40.016	10.709	-7.955	1.00	0.00	H

ATOM	665	HD3 PRO	43	37.844	8.408	-9.481	1.00	0.00	H
ATOM	666	HD2 PRO	43	37.351	7.637	-7.973	1.00	0.00	H
ATOM	667	HB2 PRO	43	37.523	11.638	-7.137	1.00	0.00	H
ATOM	668	HB3 PRO	43	38.069	11.434	-8.789	1.00	0.00	H
ATOM	669	HG3 PRO	43	36.194	9.985	-8.872	1.00	0.00	H
ATOM	670	HG2 PRO	43	36.353	9.584	-7.168	1.00	0.00	H
ATOM	671	N SER	44	39.015	9.468	-5.065	1.00	70.16	N
ATOM	672	CA SER	44	39.276	9.443	-3.627	1.00	70.16	C
ATOM	673	C SER	44	40.755	9.128	-3.316	1.00	70.16	C
ATOM	674	O SER	44	41.298	9.646	-2.343	1.00	70.16	O
ATOM	675	CB SER	44	38.384	8.342	-3.021	1.00	70.16	C
ATOM	676	OG SER	44	37.049	8.475	-3.490	1.00	70.16	O
ATOM	677	H SER	44	38.330	8.802	-5.395	1.00	0.00	H
ATOM	678	HA SER	44	39.022	10.414	-3.198	1.00	0.00	H
ATOM	679	HB2 SER	44	38.746	7.349	-3.295	1.00	0.00	H
ATOM	680	HB3 SER	44	38.400	8.392	-1.931	1.00	0.00	H
ATOM	681	HG SER	44	36.675	9.272	-3.139	1.00	0.00	H
ATOM	682	N GLN	45	41.422	8.322	-4.158	1.00	123.95	N
ATOM	683	CA GLN	45	42.832	7.973	-3.994	1.00	123.95	C
ATOM	684	C GLN	45	43.726	9.040	-4.652	1.00	123.95	C
ATOM	685	O GLN	45	44.821	9.292	-4.156	1.00	123.95	O
ATOM	686	CB GLN	45	43.092	6.586	-4.629	1.00	123.95	C
ATOM	687	CG GLN	45	44.512	6.015	-4.399	1.00	123.95	C
ATOM	688	CD GLN	45	44.887	5.892	-2.922	1.00	123.95	C
ATOM	689	OE1 GLN	45	44.088	5.453	-2.105	1.00	123.95	O
ATOM	690	NE2 GLN	45	46.092	6.300	-2.549	1.00	123.95	N
ATOM	691	H GLN	45	40.961	8.028	-5.008	1.00	0.00	H
ATOM	692	HA GLN	45	43.061	7.933	-2.928	1.00	0.00	H
ATOM	693	HB2 GLN	45	42.373	5.873	-4.223	1.00	0.00	H
ATOM	694	HB3 GLN	45	42.898	6.624	-5.701	1.00	0.00	H
ATOM	695	HG2 GLN	45	44.569	5.015	-4.828	1.00	0.00	H
ATOM	696	HG3 GLN	45	45.254	6.619	-4.918	1.00	0.00	H
ATOM	697	HE22 GLN	45	46.332	6.232	-1.573	1.00	0.00	H
ATOM	698	HE21 GLN	45	46.729	6.710	-3.214	1.00	0.00	H
ATOM	699	N GLN	46	43.242	9.712	-5.709	1.00	57.32	N
ATOM	700	CA GLN	46	43.845	10.907	-6.306	1.00	57.32	C
ATOM	701	C GLN	46	43.929	12.066	-5.292	1.00	57.32	C
ATOM	702	O GLN	46	44.970	12.707	-5.154	1.00	57.32	O
ATOM	703	CB GLN	46	43.044	11.307	-7.557	1.00	57.32	C
ATOM	704	CG GLN	46	43.378	10.407	-8.761	1.00	57.32	C
ATOM	705	CD GLN	46	42.700	10.767	-10.080	1.00	57.32	C
ATOM	706	OE1 GLN	46	42.887	10.051	-11.059	1.00	57.32	O
ATOM	707	NE2 GLN	46	41.939	11.852	-10.162	1.00	57.32	N
ATOM	708	H GLN	46	42.363	9.395	-6.100	1.00	0.00	H
ATOM	709	HA GLN	46	44.860	10.672	-6.622	1.00	0.00	H
ATOM	710	HB2 GLN	46	41.982	11.291	-7.344	1.00	0.00	H
ATOM	711	HB3 GLN	46	43.256	12.339	-7.809	1.00	0.00	H
ATOM	712	HG2 GLN	46	44.451	10.449	-8.948	1.00	0.00	H
ATOM	713	HG3 GLN	46	43.140	9.370	-8.533	1.00	0.00	H
ATOM	714	HE22 GLN	46	41.543	12.086	-11.061	1.00	0.00	H
ATOM	715	HE21 GLN	46	41.876	12.521	-9.398	1.00	0.00	H
ATOM	716	N LEU	47	42.861	12.267	-4.508	1.00	129.02	N
ATOM	717	CA LEU	47	42.826	13.192	-3.376	1.00	129.02	C
ATOM	718	C LEU	47	43.817	12.769	-2.271	1.00	129.02	C
ATOM	719	O LEU	47	44.504	13.617	-1.705	1.00	129.02	O
ATOM	720	CB LEU	47	41.372	13.270	-2.852	1.00	129.02	C

ATOM	721	CG	LEU	47	41.093	14.374	-1.801	1.00129.02	C
ATOM	722	CD1	LEU	47	39.693	14.978	-2.000	1.00129.02	C
ATOM	723	CD2	LEU	47	41.236	13.869	-0.353	1.00129.02	C
ATOM	724	H	LEU	47	42.013	11.756	-4.730	1.00 0.00	H
ATOM	725	HA	LEU	47	43.125	14.176	-3.741	1.00 0.00	H
ATOM	726	HB2	LEU	47	40.737	13.458	-3.720	1.00 0.00	H
ATOM	727	HB3	LEU	47	41.048	12.301	-2.471	1.00 0.00	H
ATOM	728	HG	LEU	47	41.809	15.184	-1.950	1.00 0.00	H
ATOM	729	HD11	LEU	47	39.501	15.775	-1.281	1.00 0.00	H
ATOM	730	HD12	LEU	47	39.587	15.411	-2.995	1.00 0.00	H
ATOM	731	HD13	LEU	47	38.913	14.226	-1.879	1.00 0.00	H
ATOM	732	HD21	LEU	47	41.015	14.663	0.361	1.00 0.00	H
ATOM	733	HD22	LEU	47	40.553	13.044	-0.149	1.00 0.00	H
ATOM	734	HD23	LEU	47	42.245	13.524	-0.132	1.00 0.00	H
ATOM	735	N	ALA	48	43.936	11.464	-1.987	1.00 25.52	N
ATOM	736	CA	ALA	48	44.838	10.932	-0.964	1.00 25.52	C
ATOM	737	C	ALA	48	46.323	11.154	-1.307	1.00 25.52	C
ATOM	738	O	ALA	48	47.092	11.555	-0.434	1.00 25.52	O
ATOM	739	CB	ALA	48	44.569	9.434	-0.757	1.00 25.52	C
ATOM	740	H	ALA	48	43.326	10.820	-2.471	1.00 0.00	H
ATOM	741	HA	ALA	48	44.627	11.455	-0.028	1.00 0.00	H
ATOM	742	HB1	ALA	48	45.148	9.052	0.085	1.00 0.00	H
ATOM	743	HB2	ALA	48	43.517	9.246	-0.540	1.00 0.00	H
ATOM	744	HB3	ALA	48	44.842	8.843	-1.629	1.00 0.00	H
ATOM	745	N	ILE	49	46.735	10.943	-2.568	1.00 95.28	N
ATOM	746	CA	ILE	49	48.111	11.213	-3.005	1.00 95.28	C
ATOM	747	C	ILE	49	48.403	12.726	-3.106	1.00 95.28	C
ATOM	748	O	ILE	49	49.547	13.130	-2.893	1.00 95.28	O
ATOM	749	CB	ILE	49	48.457	10.459	-4.320	1.00 95.28	C
ATOM	750	CG2	ILE	49	48.437	8.934	-4.085	1.00 95.28	C
ATOM	751	CG1	ILE	49	47.600	10.854	-5.536	1.00 95.28	C
ATOM	752	CD1	ILE	49	48.053	10.229	-6.862	1.00 95.28	C
ATOM	753	H	ILE	49	46.064	10.600	-3.250	1.00 0.00	H
ATOM	754	HA	ILE	49	48.782	10.840	-2.230	1.00 0.00	H
ATOM	755	HB	ILE	49	49.482	10.730	-4.578	1.00 0.00	H
ATOM	756	HG21	ILE	49	48.877	8.395	-4.923	1.00 0.00	H
ATOM	757	HG22	ILE	49	49.015	8.663	-3.202	1.00 0.00	H
ATOM	758	HG23	ILE	49	47.420	8.570	-3.947	1.00 0.00	H
ATOM	759	HG12	ILE	49	46.571	10.583	-5.344	1.00 0.00	H
ATOM	760	HG13	ILE	49	47.609	11.935	-5.661	1.00 0.00	H
ATOM	761	HD11	ILE	49	47.479	10.638	-7.695	1.00 0.00	H
ATOM	762	HD12	ILE	49	49.106	10.432	-7.055	1.00 0.00	H
ATOM	763	HD13	ILE	49	47.917	9.149	-6.870	1.00 0.00	H
ATOM	764	N	ALA	50	47.377	13.568	-3.324	1.00 27.51	N
ATOM	765	CA	ALA	50	47.488	15.028	-3.299	1.00 27.51	C
ATOM	766	C	ALA	50	47.882	15.547	-1.902	1.00 27.51	C
ATOM	767	O	ALA	50	48.748	16.418	-1.785	1.00 27.51	O
ATOM	768	CB	ALA	50	46.174	15.672	-3.750	1.00 27.51	C
ATOM	769	H	ALA	50	46.468	13.168	-3.524	1.00 0.00	H
ATOM	770	HA	ALA	50	48.250	15.315	-4.019	1.00 0.00	H
ATOM	771	HB1	ALA	50	46.303	16.748	-3.867	1.00 0.00	H
ATOM	772	HB2	ALA	50	45.850	15.278	-4.713	1.00 0.00	H
ATOM	773	HB3	ALA	50	45.365	15.525	-3.037	1.00 0.00	H
ATOM	774	N	VAL	51	47.319	14.953	-0.840	1.00 27.24	N
ATOM	775	CA	VAL	51	47.670	15.219	0.559	1.00 27.24	C
ATOM	776	C	VAL	51	49.118	14.771	0.878	1.00 27.24	C

ATOM	777	O	VAL	51	49.797	15.412	1.684	1.00	27.24	O
ATOM	778	CB	VAL	51	46.616	14.547	1.489	1.00	27.24	C
ATOM	779	CG1	VAL	51	46.967	14.603	2.991	1.00	27.24	C
ATOM	780	CG2	VAL	51	45.219	15.167	1.288	1.00	27.24	C
ATOM	781	H	VAL	51	46.595	14.267	-1.024	1.00	0.00	H
ATOM	782	HA	VAL	51	47.626	16.298	0.715	1.00	0.00	H
ATOM	783	HB	VAL	51	46.550	13.492	1.220	1.00	0.00	H
ATOM	784	HG11	VAL	51	46.163	14.187	3.599	1.00	0.00	H
ATOM	785	HG12	VAL	51	47.864	14.029	3.226	1.00	0.00	H
ATOM	786	HG13	VAL	51	47.133	15.630	3.321	1.00	0.00	H
ATOM	787	HG21	VAL	51	44.462	14.631	1.862	1.00	0.00	H
ATOM	788	HG22	VAL	51	45.200	16.209	1.606	1.00	0.00	H
ATOM	789	HG23	VAL	51	44.900	15.146	0.248	1.00	0.00	H
ATOM	790	N	LEU	52	49.631	13.718	0.226	1.00	90.91	N
ATOM	791	CA	LEU	52	51.020	13.283	0.387	1.00	90.91	C
ATOM	792	C	LEU	52	51.996	14.257	-0.301	1.00	90.91	C
ATOM	793	O	LEU	52	53.026	14.582	0.288	1.00	90.91	O
ATOM	794	CB	LEU	52	51.212	11.848	-0.149	1.00	90.91	C
ATOM	795	CG	LEU	52	50.466	10.753	0.653	1.00	90.91	C
ATOM	796	CD1	LEU	52	50.571	9.387	-0.044	1.00	90.91	C
ATOM	797	CD2	LEU	52	50.968	10.635	2.103	1.00	90.91	C
ATOM	798	H	LEU	52	49.036	13.229	-0.429	1.00	0.00	H
ATOM	799	HA	LEU	52	51.272	13.299	1.448	1.00	0.00	H
ATOM	800	HB2	LEU	52	50.899	11.813	-1.190	1.00	0.00	H
ATOM	801	HB3	LEU	52	52.278	11.609	-0.157	1.00	0.00	H
ATOM	802	HG	LEU	52	49.408	11.014	0.692	1.00	0.00	H
ATOM	803	HD11	LEU	52	50.058	8.614	0.528	1.00	0.00	H
ATOM	804	HD12	LEU	52	50.112	9.405	-1.030	1.00	0.00	H
ATOM	805	HD13	LEU	52	51.610	9.078	-0.165	1.00	0.00	H
ATOM	806	HD21	LEU	52	50.475	9.813	2.623	1.00	0.00	H
ATOM	807	HD22	LEU	52	52.043	10.453	2.142	1.00	0.00	H
ATOM	808	HD23	LEU	52	50.760	11.535	2.682	1.00	0.00	H
ATOM	809	N	SER	53	51.667	14.803	-1.483	1.00	69.82	N
ATOM	810	CA	SER	53	52.421	15.912	-2.080	1.00	69.82	C
ATOM	811	C	SER	53	52.309	17.219	-1.263	1.00	69.82	C
ATOM	812	O	SER	53	53.297	17.940	-1.167	1.00	69.82	O
ATOM	813	CB	SER	53	52.030	16.100	-3.562	1.00	69.82	C
ATOM	814	OG	SER	53	50.642	15.937	-3.790	1.00	69.82	O
ATOM	815	H	SER	53	50.830	14.492	-1.969	1.00	0.00	H
ATOM	816	HA	SER	53	53.479	15.647	-2.068	1.00	0.00	H
ATOM	817	HB2	SER	53	52.348	17.080	-3.926	1.00	0.00	H
ATOM	818	HB3	SER	53	52.560	15.370	-4.174	1.00	0.00	H
ATOM	819	HG	SER	53	50.156	16.512	-3.200	1.00	0.00	H
ATOM	820	N	LEU	54	51.176	17.485	-0.588	1.00	86.59	N
ATOM	821	CA	LEU	54	51.026	18.607	0.352	1.00	86.59	C
ATOM	822	C	LEU	54	51.998	18.449	1.535	1.00	86.59	C
ATOM	823	O	LEU	54	52.699	19.395	1.892	1.00	86.59	O
ATOM	824	CB	LEU	54	49.554	18.694	0.840	1.00	86.59	C
ATOM	825	CG	LEU	54	49.124	19.948	1.646	1.00	86.59	C
ATOM	826	CD1	LEU	54	49.444	19.859	3.149	1.00	86.59	C
ATOM	827	CD2	LEU	54	49.613	21.275	1.044	1.00	86.59	C
ATOM	828	H	LEU	54	50.368	16.893	-0.752	1.00	0.00	H
ATOM	829	HA	LEU	54	51.288	19.518	-0.188	1.00	0.00	H
ATOM	830	HB2	LEU	54	48.902	18.627	-0.029	1.00	0.00	H
ATOM	831	HB3	LEU	54	49.306	17.817	1.432	1.00	0.00	H
ATOM	832	HG	LEU	54	48.035	19.969	1.585	1.00	0.00	H

ATOM	833	HD11	LEU	54	48.942	20.657	3.697	1.00	0.00	H
ATOM	834	HD12	LEU	54	49.108	18.913	3.575	1.00	0.00	H
ATOM	835	HD13	LEU	54	50.510	19.958	3.353	1.00	0.00	H
ATOM	836	HD21	LEU	54	49.158	22.126	1.552	1.00	0.00	H
ATOM	837	HD22	LEU	54	50.694	21.388	1.131	1.00	0.00	H
ATOM	838	HD23	LEU	54	49.352	21.355	-0.011	1.00	0.00	H
ATOM	839	N	THR	55	52.094	17.233	2.091	1.00	27.14	N
ATOM	840	CA	THR	55	52.995	16.867	3.186	1.00	27.14	C
ATOM	841	C	THR	55	54.478	17.094	2.793	1.00	27.14	C
ATOM	842	O	THR	55	55.237	17.699	3.555	1.00	27.14	O
ATOM	843	CB	THR	55	52.706	15.402	3.606	1.00	27.14	C
ATOM	844	OG1	THR	55	51.344	15.264	3.982	1.00	27.14	O
ATOM	845	CG2	THR	55	53.518	14.935	4.820	1.00	27.14	C
ATOM	846	H	THR	55	51.473	16.519	1.733	1.00	0.00	H
ATOM	847	HA	THR	55	52.772	17.518	4.033	1.00	0.00	H
ATOM	848	HB	THR	55	52.906	14.722	2.780	1.00	0.00	H
ATOM	849	HG1	THR	55	50.785	15.402	3.218	1.00	0.00	H
ATOM	850	HG21	THR	55	53.238	13.925	5.119	1.00	0.00	H
ATOM	851	HG22	THR	55	54.588	14.925	4.609	1.00	0.00	H
ATOM	852	HG23	THR	55	53.356	15.592	5.675	1.00	0.00	H
ATOM	853	N	LEU	56	54.867	16.710	1.566	1.00	38.29	N
ATOM	854	CA	LEU	56	56.197	16.940	0.986	1.00	38.29	C
ATOM	855	C	LEU	56	56.485	18.424	0.668	1.00	38.29	C
ATOM	856	O	LEU	56	57.627	18.769	0.377	1.00	38.29	O
ATOM	857	CB	LEU	56	56.352	16.104	-0.307	1.00	38.29	C
ATOM	858	CG	LEU	56	56.424	14.574	-0.094	1.00	38.29	C
ATOM	859	CD1	LEU	56	56.237	13.831	-1.426	1.00	38.29	C
ATOM	860	CD2	LEU	56	57.742	14.140	0.570	1.00	38.29	C
ATOM	861	H	LEU	56	54.184	16.246	0.978	1.00	0.00	H
ATOM	862	HA	LEU	56	56.952	16.637	1.712	1.00	0.00	H
ATOM	863	HB2	LEU	56	55.523	16.344	-0.974	1.00	0.00	H
ATOM	864	HB3	LEU	56	57.249	16.417	-0.846	1.00	0.00	H
ATOM	865	HG	LEU	56	55.607	14.273	0.562	1.00	0.00	H
ATOM	866	HD11	LEU	56	56.280	12.750	-1.287	1.00	0.00	H
ATOM	867	HD12	LEU	56	55.271	14.061	-1.875	1.00	0.00	H
ATOM	868	HD13	LEU	56	57.012	14.105	-2.143	1.00	0.00	H
ATOM	869	HD21	LEU	56	57.772	13.058	0.695	1.00	0.00	H
ATOM	870	HD22	LEU	56	58.606	14.427	-0.032	1.00	0.00	H
ATOM	871	HD23	LEU	56	57.866	14.580	1.558	1.00	0.00	H
ATOM	872	N	GLY	57	55.493	19.312	0.793	1.00	25.62	N
ATOM	873	CA	GLY	57	55.619	20.749	0.571	1.00	25.62	C
ATOM	874	C	GLY	57	55.692	21.526	1.892	1.00	25.62	C
ATOM	875	O	GLY	57	55.810	22.747	1.875	1.00	25.62	O
ATOM	876	H	GLY	57	54.561	18.971	0.998	1.00	0.00	H
ATOM	877	HA2	GLY	57	56.487	20.995	-0.042	1.00	0.00	H
ATOM	878	HA3	GLY	57	54.742	21.089	0.020	1.00	0.00	H
ATOM	879	N	THR	58	55.685	20.827	3.036	1.00	104.62	N
ATOM	880	CA	THR	58	55.772	21.403	4.376	1.00	104.62	C
ATOM	881	C	THR	58	56.846	20.686	5.217	1.00	104.62	C
ATOM	882	O	THR	58	57.633	21.341	5.902	1.00	104.62	O
ATOM	883	CB	THR	58	54.351	21.578	4.981	1.00	104.62	C
ATOM	884	OG1	THR	58	54.386	22.251	6.224	1.00	104.62	O
ATOM	885	CG2	THR	58	53.584	20.267	5.203	1.00	104.62	C
ATOM	886	H	THR	58	55.542	19.830	2.952	1.00	0.00	H
ATOM	887	HA	THR	58	56.161	22.419	4.281	1.00	0.00	H
ATOM	888	HB	THR	58	53.775	22.204	4.297	1.00	0.00	H

ATOM	889	HG1 THR	58	53.541	22.648	6.373	1.00	0.00	H
ATOM	890	HG21 THR	58	52.576	20.452	5.572	1.00	0.00	H
ATOM	891	HG22 THR	58	53.484	19.719	4.271	1.00	0.00	H
ATOM	892	HG23 THR	58	54.086	19.615	5.916	1.00	0.00	H
ATOM	893	N PHE	59	56.990	19.355	5.089	1.00	52.95	N
ATOM	894	CA PHE	59	57.986	18.557	5.821	1.00	52.95	C
ATOM	895	C PHE	59	59.418	18.679	5.240	1.00	52.95	C
ATOM	896	O PHE	59	60.340	18.030	5.736	1.00	52.95	O
ATOM	897	CB PHE	59	57.549	17.074	5.857	1.00	52.95	C
ATOM	898	CG PHE	59	56.406	16.681	6.791	1.00	52.95	C
ATOM	899	CD1 PHE	59	55.584	17.633	7.437	1.00	52.95	C
ATOM	900	CD2 PHE	59	56.184	15.308	7.033	1.00	52.95	C
ATOM	901	CE1 PHE	59	54.549	17.215	8.295	1.00	52.95	C
ATOM	902	CE2 PHE	59	55.153	14.890	7.896	1.00	52.95	C
ATOM	903	CZ PHE	59	54.331	15.844	8.524	1.00	52.95	C
ATOM	904	H PHE	59	56.324	18.837	4.519	1.00	0.00	H
ATOM	905	HA PHE	59	58.049	18.914	6.847	1.00	0.00	H
ATOM	906	HB2 PHE	59	57.336	16.711	4.851	1.00	0.00	H
ATOM	907	HB3 PHE	59	58.386	16.477	6.213	1.00	0.00	H
ATOM	908	HD1 PHE	59	55.731	18.693	7.292	1.00	0.00	H
ATOM	909	HD2 PHE	59	56.807	14.570	6.548	1.00	0.00	H
ATOM	910	HE1 PHE	59	53.919	17.951	8.774	1.00	0.00	H
ATOM	911	HE2 PHE	59	54.984	13.837	8.065	1.00	0.00	H
ATOM	912	HZ PHE	59	53.530	15.526	9.176	1.00	0.00	H
ATOM	913	N THR	60	59.613	19.532	4.229	1.00	112.34	N
ATOM	914	CA THR	60	60.900	20.063	3.787	1.00	112.34	C
ATOM	915	C THR	60	61.262	21.281	4.677	1.00	112.34	C
ATOM	916	O THR	60	62.315	21.302	5.323	1.00	112.34	O
ATOM	917	CB THR	60	60.797	20.413	2.262	1.00	112.34	C
ATOM	918	OG1 THR	60	61.895	21.172	1.801	1.00	112.34	O
ATOM	919	CG2 THR	60	59.554	21.201	1.807	1.00	112.34	C
ATOM	920	H THR	60	58.789	19.970	3.850	1.00	0.00	H
ATOM	921	HA THR	60	61.681	19.310	3.914	1.00	0.00	H
ATOM	922	HB THR	60	60.799	19.479	1.704	1.00	0.00	H
ATOM	923	HG1 THR	60	62.710	20.725	2.046	1.00	0.00	H
ATOM	924	HG21 THR	60	59.523	21.248	0.718	1.00	0.00	H
ATOM	925	HG22 THR	60	58.622	20.732	2.117	1.00	0.00	H
ATOM	926	HG23 THR	60	59.568	22.229	2.160	1.00	0.00	H
ATOM	927	N VAL	61	60.361	22.275	4.755	1.00	48.18	N
ATOM	928	CA VAL	61	60.536	23.614	5.325	1.00	48.18	C
ATOM	929	C VAL	61	61.088	23.595	6.763	1.00	48.18	C
ATOM	930	O VAL	61	62.042	24.313	7.072	1.00	48.18	O
ATOM	931	CB VAL	61	59.196	24.403	5.220	1.00	48.18	C
ATOM	932	CG1 VAL	61	59.346	25.886	5.608	1.00	48.18	C
ATOM	933	CG2 VAL	61	58.551	24.318	3.822	1.00	48.18	C
ATOM	934	H VAL	61	59.495	22.133	4.259	1.00	0.00	H
ATOM	935	HA VAL	61	61.279	24.116	4.701	1.00	0.00	H
ATOM	936	HB VAL	61	58.485	23.961	5.921	1.00	0.00	H
ATOM	937	HG11 VAL	61	58.388	26.404	5.558	1.00	0.00	H
ATOM	938	HG12 VAL	61	59.723	26.016	6.623	1.00	0.00	H
ATOM	939	HG13 VAL	61	60.028	26.394	4.928	1.00	0.00	H
ATOM	940	HG21 VAL	61	57.668	24.955	3.753	1.00	0.00	H
ATOM	941	HG22 VAL	61	59.242	24.633	3.039	1.00	0.00	H
ATOM	942	HG23 VAL	61	58.210	23.312	3.588	1.00	0.00	H
ATOM	943	N LEU	62	60.501	22.742	7.616	1.00	139.89	N
ATOM	944	CA LEU	62	60.780	22.586	9.048	1.00	139.89	C

ATOM	945	C	LEU	62	62.212	22.149	9.434	1.00139.89	C
ATOM	946	O	LEU	62	62.534	22.148	10.621	1.00139.89	O
ATOM	947	CB	LEU	62	59.697	21.699	9.716	1.00139.89	C
ATOM	948	CG	LEU	62	59.292	20.388	9.001	1.00139.89	C
ATOM	949	CD1	LEU	62	60.444	19.382	8.881	1.00139.89	C
ATOM	950	CD2	LEU	62	58.094	19.741	9.714	1.00139.89	C
ATOM	951	H	LEU	62	59.750	22.184	7.230	1.00 0.00	H
ATOM	952	HA	LEU	62	60.682	23.583	9.483	1.00 0.00	H
ATOM	953	HB2	LEU	62	59.987	21.477	10.744	1.00 0.00	H
ATOM	954	HB3	LEU	62	58.800	22.313	9.809	1.00 0.00	H
ATOM	955	HG	LEU	62	58.962	20.635	7.995	1.00 0.00	H
ATOM	956	HD11	LEU	62	60.094	18.428	8.485	1.00 0.00	H
ATOM	957	HD12	LEU	62	61.218	19.734	8.199	1.00 0.00	H
ATOM	958	HD13	LEU	62	60.904	19.194	9.851	1.00 0.00	H
ATOM	959	HD21	LEU	62	57.781	18.822	9.218	1.00 0.00	H
ATOM	960	HD22	LEU	62	58.331	19.493	10.748	1.00 0.00	H
ATOM	961	HD23	LEU	62	57.232	20.410	9.720	1.00 0.00	H
ATOM	962	N	GLU	63	63.082	21.847	8.460	1.00110.04	N
ATOM	963	CA	GLU	63	64.531	21.849	8.642	1.00110.04	C
ATOM	964	C	GLU	63	65.267	22.545	7.483	1.00110.04	C
ATOM	965	O	GLU	63	66.199	23.300	7.760	1.00110.04	O
ATOM	966	CB	GLU	63	65.112	20.524	9.216	1.00110.04	C
ATOM	967	CG	GLU	63	66.661	20.437	9.179	1.00110.04	C
ATOM	968	CD	GLU	63	67.316	19.413	10.102	1.00110.04	C
ATOM	969	OE1	GLU	63	68.516	19.151	9.894	1.00110.04	O
ATOM	970	OE2	GLU	63	66.719	18.976	11.108	1.00110.04	O1-
ATOM	971	H	GLU	63	62.727	21.880	7.513	1.00 0.00	H
ATOM	972	HA	GLU	63	64.717	22.553	9.455	1.00 0.00	H
ATOM	973	HB2	GLU	63	64.772	20.429	10.246	1.00 0.00	H
ATOM	974	HB3	GLU	63	64.687	19.668	8.693	1.00 0.00	H
ATOM	975	HG2	GLU	63	67.020	20.267	8.166	1.00 0.00	H
ATOM	976	HG3	GLU	63	67.077	21.398	9.479	1.00 0.00	H
ATOM	977	N	ASN	64	64.838	22.380	6.215	1.00 70.34	N
ATOM	978	CA	ASN	64	65.514	22.976	5.046	1.00 70.34	C
ATOM	979	C	ASN	64	65.565	24.509	5.100	1.00 70.34	C
ATOM	980	O	ASN	64	66.638	25.085	4.936	1.00 70.34	O
ATOM	981	CB	ASN	64	64.882	22.588	3.685	1.00 70.34	C
ATOM	982	CG	ASN	64	65.144	21.173	3.172	1.00 70.34	C
ATOM	983	OD1	ASN	64	64.205	20.428	2.921	1.00 70.34	O
ATOM	984	ND2	ASN	64	66.392	20.812	2.892	1.00 70.34	N
ATOM	985	H	ASN	64	64.034	21.787	6.025	1.00 0.00	H
ATOM	986	HA	ASN	64	66.548	22.627	5.058	1.00 0.00	H
ATOM	987	HB2	ASN	64	63.806	22.764	3.701	1.00 0.00	H
ATOM	988	HB3	ASN	64	65.262	23.247	2.902	1.00 0.00	H
ATOM	989	HD22	ASN	64	66.528	19.979	2.283	1.00 0.00	H
ATOM	990	HD21	ASN	64	67.182	21.406	3.063	1.00 0.00	H
ATOM	991	N	LEU	65	64.431	25.183	5.342	1.00 45.20	N
ATOM	992	CA	LEU	65	64.375	26.649	5.335	1.00 45.20	C
ATOM	993	C	LEU	65	65.004	27.201	6.624	1.00 45.20	C
ATOM	994	O	LEU	65	65.745	28.182	6.579	1.00 45.20	O
ATOM	995	CB	LEU	65	62.907	27.118	5.204	1.00 45.20	C
ATOM	996	CG	LEU	65	62.706	28.650	5.072	1.00 45.20	C
ATOM	997	CD1	LEU	65	63.383	29.232	3.819	1.00 45.20	C
ATOM	998	CD2	LEU	65	61.214	29.012	5.079	1.00 45.20	C
ATOM	999	H	LEU	65	63.592	24.665	5.567	1.00 0.00	H
ATOM	1000	HA	LEU	65	64.948	27.015	4.482	1.00 0.00	H

ATOM	1001	HB2 LEU	65	62.460	26.634	4.334	1.00	0.00	H
ATOM	1002	HB3 LEU	65	62.339	26.764	6.066	1.00	0.00	H
ATOM	1003	HG LEU	65	63.147	29.141	5.940	1.00	0.00	H
ATOM	1004	HD11 LEU	65	63.179	30.299	3.725	1.00	0.00	H
ATOM	1005	HD12 LEU	65	64.468	29.128	3.856	1.00	0.00	H
ATOM	1006	HD13 LEU	65	63.028	28.748	2.909	1.00	0.00	H
ATOM	1007	HD21 LEU	65	61.071	30.093	5.053	1.00	0.00	H
ATOM	1008	HD22 LEU	65	60.697	28.595	4.215	1.00	0.00	H
ATOM	1009	HD23 LEU	65	60.718	28.644	5.978	1.00	0.00	H
ATOM	1010	N LEU	66	64.760	26.521	7.753	1.00	100.93	N
ATOM	1011	CA LEU	66	65.310	26.815	9.076	1.00	100.93	C
ATOM	1012	C LEU	66	66.847	26.884	9.058	1.00	100.93	C
ATOM	1013	O LEU	66	67.428	27.867	9.519	1.00	100.93	O
ATOM	1014	CB LEU	66	64.757	25.770	10.075	1.00	100.93	C
ATOM	1015	CG LEU	66	65.183	25.929	11.557	1.00	100.93	C
ATOM	1016	CD1 LEU	66	64.032	25.535	12.498	1.00	100.93	C
ATOM	1017	CD2 LEU	66	66.432	25.096	11.904	1.00	100.93	C
ATOM	1018	H LEU	66	64.160	25.714	7.664	1.00	0.00	H
ATOM	1019	HA LEU	66	64.945	27.802	9.367	1.00	0.00	H
ATOM	1020	HB2 LEU	66	63.669	25.825	10.018	1.00	0.00	H
ATOM	1021	HB3 LEU	66	65.005	24.767	9.736	1.00	0.00	H
ATOM	1022	HG LEU	66	65.404	26.981	11.749	1.00	0.00	H
ATOM	1023	HD11 LEU	66	64.315	25.661	13.544	1.00	0.00	H
ATOM	1024	HD12 LEU	66	63.150	26.153	12.326	1.00	0.00	H
ATOM	1025	HD13 LEU	66	63.739	24.493	12.353	1.00	0.00	H
ATOM	1026	HD21 LEU	66	66.676	25.183	12.962	1.00	0.00	H
ATOM	1027	HD22 LEU	66	66.272	24.039	11.690	1.00	0.00	H
ATOM	1028	HD23 LEU	66	67.312	25.417	11.349	1.00	0.00	H
ATOM	1029	N VAL	67	67.504	25.857	8.498	1.00	94.40	N
ATOM	1030	CA VAL	67	68.960	25.786	8.443	1.00	94.40	C
ATOM	1031	C VAL	67	69.520	26.703	7.332	1.00	94.40	C
ATOM	1032	O VAL	67	70.606	27.258	7.505	1.00	94.40	O
ATOM	1033	CB VAL	67	69.384	24.299	8.281	1.00	94.40	C
ATOM	1034	CG1 VAL	67	69.236	23.723	6.861	1.00	94.40	C
ATOM	1035	CG2 VAL	67	70.795	24.045	8.827	1.00	94.40	C
ATOM	1036	H VAL	67	66.974	25.074	8.123	1.00	0.00	H
ATOM	1037	HA VAL	67	69.345	26.147	9.397	1.00	0.00	H
ATOM	1038	HB VAL	67	68.718	23.712	8.918	1.00	0.00	H
ATOM	1039	HG11 VAL	67	69.310	22.639	6.881	1.00	0.00	H
ATOM	1040	HG12 VAL	67	68.265	23.956	6.436	1.00	0.00	H
ATOM	1041	HG13 VAL	67	69.992	24.102	6.173	1.00	0.00	H
ATOM	1042	HG21 VAL	67	71.037	22.983	8.803	1.00	0.00	H
ATOM	1043	HG22 VAL	67	71.551	24.585	8.256	1.00	0.00	H
ATOM	1044	HG23 VAL	67	70.872	24.366	9.863	1.00	0.00	H
ATOM	1045	N LEU	68	68.778	26.912	6.229	1.00	50.99	N
ATOM	1046	CA LEU	68	69.156	27.799	5.128	1.00	50.99	C
ATOM	1047	C LEU	68	69.197	29.265	5.588	1.00	50.99	C
ATOM	1048	O LEU	68	70.202	29.941	5.371	1.00	50.99	O
ATOM	1049	CB LEU	68	68.194	27.607	3.935	1.00	50.99	C
ATOM	1050	CG LEU	68	68.489	28.438	2.665	1.00	50.99	C
ATOM	1051	CD1 LEU	68	69.920	28.242	2.135	1.00	50.99	C
ATOM	1052	CD2 LEU	68	67.467	28.115	1.564	1.00	50.99	C
ATOM	1053	H LEU	68	67.902	26.410	6.142	1.00	0.00	H
ATOM	1054	HA LEU	68	70.150	27.499	4.804	1.00	0.00	H
ATOM	1055	HB2 LEU	68	68.220	26.558	3.657	1.00	0.00	H
ATOM	1056	HB3 LEU	68	67.173	27.809	4.258	1.00	0.00	H

ATOM	1057	HG	LEU	68	68.362	29.492	2.911	1.00	0.00	H
ATOM	1058	HD11	LEU	68	70.071	28.800	1.210	1.00	0.00	H
ATOM	1059	HD12	LEU	68	70.666	28.602	2.843	1.00	0.00	H
ATOM	1060	HD13	LEU	68	70.127	27.192	1.927	1.00	0.00	H
ATOM	1061	HD21	LEU	68	67.608	28.753	0.691	1.00	0.00	H
ATOM	1062	HD22	LEU	68	67.550	27.080	1.231	1.00	0.00	H
ATOM	1063	HD23	LEU	68	66.445	28.270	1.914	1.00	0.00	H
ATOM	1064	N	CYS	69	68.152	29.738	6.282	1.00	83.18	N
ATOM	1065	CA	CYS	69	68.068	31.083	6.859	1.00	83.18	C
ATOM	1066	C	CYS	69	69.227	31.380	7.828	1.00	83.18	C
ATOM	1067	O	CYS	69	69.854	32.438	7.748	1.00	83.18	O
ATOM	1068	CB	CYS	69	66.703	31.263	7.550	1.00	83.18	C
ATOM	1069	SG	CYS	69	65.426	31.567	6.294	1.00	83.18	S
ATOM	1070	H	CYS	69	67.339	29.134	6.393	1.00	0.00	H
ATOM	1071	HA	CYS	69	68.151	31.808	6.048	1.00	0.00	H
ATOM	1072	HB2	CYS	69	66.440	30.390	8.150	1.00	0.00	H
ATOM	1073	HB3	CYS	69	66.716	32.118	8.227	1.00	0.00	H
ATOM	1074	HG	CYS	69	64.391	31.607	7.137	1.00	0.00	H
ATOM	1075	N	VAL	70	69.559	30.398	8.678	1.00	47.48	N
ATOM	1076	CA	VAL	70	70.702	30.387	9.585	1.00	47.48	C
ATOM	1077	C	VAL	70	72.045	30.652	8.875	1.00	47.48	C
ATOM	1078	O	VAL	70	72.783	31.545	9.301	1.00	47.48	O
ATOM	1079	CB	VAL	70	70.657	29.080	10.430	1.00	47.48	C
ATOM	1080	CG1	VAL	70	72.026	28.521	10.873	1.00	47.48	C
ATOM	1081	CG2	VAL	70	69.710	29.264	11.627	1.00	47.48	C
ATOM	1082	H	VAL	70	68.990	29.561	8.655	1.00	0.00	H
ATOM	1083	HA	VAL	70	70.565	31.235	10.261	1.00	0.00	H
ATOM	1084	HB	VAL	70	70.218	28.295	9.818	1.00	0.00	H
ATOM	1085	HG11	VAL	70	71.919	27.742	11.623	1.00	0.00	H
ATOM	1086	HG12	VAL	70	72.556	28.072	10.032	1.00	0.00	H
ATOM	1087	HG13	VAL	70	72.674	29.295	11.280	1.00	0.00	H
ATOM	1088	HG21	VAL	70	69.590	28.342	12.193	1.00	0.00	H
ATOM	1089	HG22	VAL	70	70.077	30.033	12.305	1.00	0.00	H
ATOM	1090	HG23	VAL	70	68.715	29.569	11.298	1.00	0.00	H
ATOM	1091	N	ILE	71	72.367	29.897	7.814	1.00	100.08	N
ATOM	1092	CA	ILE	71	73.646	30.020	7.107	1.00	100.08	C
ATOM	1093	C	ILE	71	73.652	31.209	6.126	1.00	100.08	C
ATOM	1094	O	ILE	71	74.730	31.683	5.773	1.00	100.08	O
ATOM	1095	CB	ILE	71	73.994	28.702	6.359	1.00	100.08	C
ATOM	1096	CG2	ILE	71	74.154	27.534	7.352	1.00	100.08	C
ATOM	1097	CG1	ILE	71	73.016	28.347	5.217	1.00	100.08	C
ATOM	1098	CD1	ILE	71	73.483	27.205	4.317	1.00	100.08	C
ATOM	1099	H	ILE	71	71.720	29.175	7.514	1.00	0.00	H
ATOM	1100	HA	ILE	71	74.437	30.207	7.837	1.00	0.00	H
ATOM	1101	HB	ILE	71	74.973	28.858	5.903	1.00	0.00	H
ATOM	1102	HG21	ILE	71	74.541	26.643	6.862	1.00	0.00	H
ATOM	1103	HG22	ILE	71	74.847	27.790	8.155	1.00	0.00	H
ATOM	1104	HG23	ILE	71	73.205	27.262	7.813	1.00	0.00	H
ATOM	1105	HG12	ILE	71	72.055	28.090	5.646	1.00	0.00	H
ATOM	1106	HG13	ILE	71	72.834	29.204	4.570	1.00	0.00	H
ATOM	1107	HD11	ILE	71	72.802	27.102	3.472	1.00	0.00	H
ATOM	1108	HD12	ILE	71	74.483	27.384	3.921	1.00	0.00	H
ATOM	1109	HD13	ILE	71	73.494	26.256	4.854	1.00	0.00	H
ATOM	1110	N	LEU	72	72.482	31.710	5.696	1.00	142.11	N
ATOM	1111	CA	LEU	72	72.354	32.950	4.929	1.00	142.11	C
ATOM	1112	C	LEU	72	72.688	34.157	5.821	1.00	142.11	C

ATOM	1113	O	LEU	72	73.450	35.028	5.395	1.00142.11	O
ATOM	1114	CB	LEU	72	70.928	33.106	4.354	1.00142.11	C
ATOM	1115	CG	LEU	72	70.631	32.250	3.102	1.00142.11	C
ATOM	1116	CD1	LEU	72	69.123	32.236	2.812	1.00142.11	C
ATOM	1117	CD2	LEU	72	71.396	32.734	1.858	1.00142.11	C
ATOM	1118	H	LEU	72	71.632	31.201	5.927	1.00 0.00	H
ATOM	1119	HA	LEU	72	73.077	32.935	4.115	1.00 0.00	H
ATOM	1120	HB2	LEU	72	70.204	32.873	5.135	1.00 0.00	H
ATOM	1121	HB3	LEU	72	70.742	34.152	4.099	1.00 0.00	H
ATOM	1122	HG	LEU	72	70.935	31.222	3.300	1.00 0.00	H
ATOM	1123	HD11	LEU	72	68.892	31.626	1.937	1.00 0.00	H
ATOM	1124	HD12	LEU	72	68.560	31.824	3.650	1.00 0.00	H
ATOM	1125	HD13	LEU	72	68.741	33.240	2.621	1.00 0.00	H
ATOM	1126	HD21	LEU	72	71.131	32.136	0.985	1.00 0.00	H
ATOM	1127	HD22	LEU	72	71.159	33.773	1.625	1.00 0.00	H
ATOM	1128	HD23	LEU	72	72.475	32.653	1.981	1.00 0.00	H
ATOM	1129	N	HIS	73	72.188	34.160	7.065	1.00 73.77	N
ATOM	1130	CA	HIS	73	72.542	35.097	8.130	1.00 73.77	C
ATOM	1131	C	HIS	73	74.030	34.965	8.510	1.00 73.77	C
ATOM	1132	O	HIS	73	74.848	35.787	8.098	1.00 73.77	O
ATOM	1133	ND1	HIS	73	72.466	36.709	10.923	1.00 73.77	N
ATOM	1134	CG	HIS	73	72.031	35.412	10.696	1.00 73.77	C
ATOM	1135	CB	HIS	73	71.589	34.889	9.342	1.00 73.77	C
ATOM	1136	NE2	HIS	73	72.608	35.673	12.881	1.00 73.77	N
ATOM	1137	CD2	HIS	73	72.117	34.785	11.921	1.00 73.77	C
ATOM	1138	CE1	HIS	73	72.782	36.807	12.215	1.00 73.77	C
ATOM	1139	H	HIS	73	71.535	33.417	7.301	1.00 0.00	H
ATOM	1140	HA	HIS	73	72.400	36.113	7.759	1.00 0.00	H
ATOM	1141	HD1	HIS	73	72.618	37.451	10.253	1.00 0.00	H
ATOM	1142	HB2	HIS	73	70.624	35.337	9.111	1.00 0.00	H
ATOM	1143	HB3	HIS	73	71.387	33.827	9.478	1.00 0.00	H
ATOM	1144	HD2	HIS	73	71.873	33.765	12.185	1.00 0.00	H
ATOM	1145	HE1	HIS	73	73.163	37.713	12.666	1.00 0.00	H
ATOM	1146	N	SER	74	74.373	33.911	9.259	1.00 53.53	N
ATOM	1147	CA	SER	74	75.515	33.833	10.167	1.00 53.53	C
ATOM	1148	C	SER	74	76.864	34.010	9.453	1.00 53.53	C
ATOM	1149	O	SER	74	77.254	33.160	8.647	1.00 53.53	O
ATOM	1150	CB	SER	74	75.478	32.445	10.824	1.00 53.53	C
ATOM	1151	OG	SER	74	74.285	32.229	11.560	1.00 53.53	O
ATOM	1152	H	SER	74	73.663	33.199	9.383	1.00 0.00	H
ATOM	1153	HA	SER	74	75.402	34.605	10.931	1.00 0.00	H
ATOM	1154	HB2	SER	74	75.570	31.662	10.069	1.00 0.00	H
ATOM	1155	HB3	SER	74	76.329	32.345	11.496	1.00 0.00	H
ATOM	1156	HG	SER	74	73.600	32.023	10.925	1.00 0.00	H
ATOM	1157	N	ARG	75	77.576	35.111	9.705	1.00 50.48	N
ATOM	1158	CA	ARG	75	78.786	35.502	8.973	1.00 50.48	C
ATOM	1159	C	ARG	75	80.056	34.728	9.392	1.00 50.48	C
ATOM	1160	O	ARG	75	81.140	35.062	8.924	1.00 50.48	O
ATOM	1161	CB	ARG	75	78.985	37.029	9.113	1.00 50.48	C
ATOM	1162	CG	ARG	75	77.958	37.810	8.271	1.00 50.48	C
ATOM	1163	CD	ARG	75	78.045	39.337	8.435	1.00 50.48	C
ATOM	1164	NE	ARG	75	76.892	39.828	9.194	1.00 50.48	N
ATOM	1165	CZ	ARG	75	76.315	41.028	9.233	1.00 50.48	C
ATOM	1166	NH1	ARG	75	76.757	42.052	8.499	1.00 50.48	N
ATOM	1167	NH2	ARG	75	75.272	41.152	10.045	1.00 50.48	N1+
ATOM	1168	H	ARG	75	77.188	35.800	10.373	1.00 0.00	H

ATOM	1169	HA	ARG	75	78.648	35.278	7.915	1.00	0.00	H
ATOM	1170	HB2	ARG	75	78.917	37.320	10.162	1.00	0.00	H
ATOM	1171	HB3	ARG	75	79.985	37.319	8.785	1.00	0.00	H
ATOM	1172	HG2	ARG	75	78.097	37.558	7.219	1.00	0.00	H
ATOM	1173	HG3	ARG	75	76.952	37.465	8.518	1.00	0.00	H
ATOM	1174	HD2	ARG	75	78.970	39.641	8.926	1.00	0.00	H
ATOM	1175	HD3	ARG	75	78.035	39.805	7.451	1.00	0.00	H
ATOM	1176	HE	ARG	75	76.464	39.134	9.847	1.00	0.00	H
ATOM	1177	HH12	ARG	75	76.324	42.963	8.529	1.00	0.00	H
ATOM	1178	HH11	ARG	75	77.570	41.941	7.913	1.00	0.00	H
ATOM	1179	HH22	ARG	75	74.731	41.984	10.220	1.00	0.00	H
ATOM	1180	HH21	ARG	75	75.060	40.285	10.586	1.00	0.00	H
ATOM	1181	N	SER	76	79.930	33.662	10.192	1.00	93.08	N
ATOM	1182	CA	SER	76	81.010	32.738	10.530	1.00	93.08	C
ATOM	1183	C	SER	76	80.514	31.279	10.557	1.00	93.08	C
ATOM	1184	O	SER	76	81.195	30.412	10.008	1.00	93.08	O
ATOM	1185	CB	SER	76	81.797	33.265	11.743	1.00	93.08	C
ATOM	1186	OG	SER	76	82.908	32.476	12.125	1.00	93.08	O
ATOM	1187	H	SER	76	79.007	33.447	10.534	1.00	0.00	H
ATOM	1188	HA	SER	76	81.721	32.750	9.700	1.00	0.00	H
ATOM	1189	HB2	SER	76	82.167	34.269	11.532	1.00	0.00	H
ATOM	1190	HB3	SER	76	81.112	33.355	12.579	1.00	0.00	H
ATOM	1191	HG	SER	76	82.564	31.670	12.558	1.00	0.00	H
ATOM	1192	N	LEU	77	79.283	31.004	11.041	1.00	99.22	N
ATOM	1193	CA	LEU	77	78.569	29.704	11.038	1.00	99.22	C
ATOM	1194	C	LEU	77	78.228	29.187	9.608	1.00	99.22	C
ATOM	1195	O	LEU	77	77.151	28.674	9.324	1.00	99.22	O
ATOM	1196	CB	LEU	77	77.305	29.793	11.945	1.00	99.22	C
ATOM	1197	CG	LEU	77	76.970	28.548	12.806	1.00	99.22	C
ATOM	1198	CD1	LEU	77	76.564	28.954	14.233	1.00	99.22	C
ATOM	1199	CD2	LEU	77	75.849	27.694	12.189	1.00	99.22	C
ATOM	1200	H	LEU	77	78.900	31.720	11.650	1.00	0.00	H
ATOM	1201	HA	LEU	77	79.258	28.988	11.484	1.00	0.00	H
ATOM	1202	HB2	LEU	77	77.428	30.630	12.626	1.00	0.00	H
ATOM	1203	HB3	LEU	77	76.426	30.046	11.358	1.00	0.00	H
ATOM	1204	HG	LEU	77	77.861	27.928	12.899	1.00	0.00	H
ATOM	1205	HD11	LEU	77	76.318	28.082	14.840	1.00	0.00	H
ATOM	1206	HD12	LEU	77	77.362	29.489	14.745	1.00	0.00	H
ATOM	1207	HD13	LEU	77	75.695	29.611	14.224	1.00	0.00	H
ATOM	1208	HD21	LEU	77	75.640	26.817	12.803	1.00	0.00	H
ATOM	1209	HD22	LEU	77	74.922	28.259	12.093	1.00	0.00	H
ATOM	1210	HD23	LEU	77	76.113	27.328	11.198	1.00	0.00	H
ATOM	1211	N	ARG	78	79.191	29.306	8.696	1.00	220.09	N
ATOM	1212	CA	ARG	78	79.334	28.690	7.382	1.00	220.09	C
ATOM	1213	C	ARG	78	80.618	27.807	7.395	1.00	220.09	C
ATOM	1214	O	ARG	78	81.068	27.319	6.355	1.00	220.09	O
ATOM	1215	CB	ARG	78	79.443	29.837	6.342	1.00	220.09	C
ATOM	1216	CG	ARG	78	78.176	30.724	6.190	1.00	220.09	C
ATOM	1217	CD	ARG	78	78.484	32.128	5.620	1.00	220.09	C
ATOM	1218	NE	ARG	78	77.406	32.668	4.763	1.00	220.09	N
ATOM	1219	CZ	ARG	78	76.530	33.645	5.060	1.00	220.09	C
ATOM	1220	NH1	ARG	78	76.479	34.187	6.273	1.00	220.09	N
ATOM	1221	NH2	ARG	78	75.699	34.112	4.128	1.00	220.09	N1+
ATOM	1222	H	ARG	78	80.024	29.780	9.057	1.00	0.00	H
ATOM	1223	HA	ARG	78	78.477	28.052	7.155	1.00	0.00	H
ATOM	1224	HB2	ARG	78	80.289	30.468	6.622	1.00	0.00	H

ATOM	1225	HB3 ARG	78	79.697	29.425	5.364	1.00	0.00	H
ATOM	1226	HG2 ARG	78	77.434	30.202	5.584	1.00	0.00	H
ATOM	1227	HG3 ARG	78	77.699	30.863	7.161	1.00	0.00	H
ATOM	1228	HD2 ARG	78	78.744	32.823	6.420	1.00	0.00	H
ATOM	1229	HD3 ARG	78	79.370	32.073	4.987	1.00	0.00	H
ATOM	1230	HE ARG	78	77.300	32.187	3.884	1.00	0.00	H
ATOM	1231	HH12 ARG	78	75.804	34.905	6.544	1.00	0.00	H
ATOM	1232	HH11 ARG	78	76.912	33.706	7.067	1.00	0.00	H
ATOM	1233	HH22 ARG	78	74.915	34.699	4.439	1.00	0.00	H
ATOM	1234	HH21 ARG	78	75.677	33.785	3.178	1.00	0.00	H
ATOM	1235	N CYS	79	81.233	27.647	8.579	1.00	118.93	N
ATOM	1236	CA CYS	79	82.583	27.152	8.841	1.00	118.93	C
ATOM	1237	C CYS	79	82.707	25.618	8.819	1.00	118.93	C
ATOM	1238	O CYS	79	83.678	25.087	8.288	1.00	118.93	O
ATOM	1239	CB CYS	79	82.995	27.671	10.241	1.00	118.93	C
ATOM	1240	SG CYS	79	81.732	27.417	11.537	1.00	118.93	S
ATOM	1241	H CYS	79	80.805	28.105	9.373	1.00	0.00	H
ATOM	1242	HA CYS	79	83.271	27.561	8.099	1.00	0.00	H
ATOM	1243	HB2 CYS	79	83.919	27.198	10.567	1.00	0.00	H
ATOM	1244	HB3 CYS	79	83.197	28.739	10.181	1.00	0.00	H
ATOM	1245	HG CYS	79	82.042	28.512	12.259	1.00	0.00	H
ATOM	1246	N ARG	80	81.737	24.893	9.385	1.00	145.79	N
ATOM	1247	CA ARG	80	81.662	23.431	9.379	1.00	145.79	C
ATOM	1248	C ARG	80	81.112	23.002	7.998	1.00	145.79	C
ATOM	1249	O ARG	80	80.023	23.457	7.652	1.00	145.79	O
ATOM	1250	CB ARG	80	80.683	23.038	10.526	1.00	145.79	C
ATOM	1251	CG ARG	80	80.079	21.617	10.590	1.00	145.79	C
ATOM	1252	CD ARG	80	80.785	20.597	11.485	1.00	145.79	C
ATOM	1253	NE ARG	80	82.110	20.255	10.960	1.00	145.79	N
ATOM	1254	CZ ARG	80	82.449	19.301	10.089	1.00	145.79	C
ATOM	1255	NH1 ARG	80	81.543	18.523	9.496	1.00	145.79	N
ATOM	1256	NH2 ARG	80	83.738	19.166	9.798	1.00	145.79	N1+
ATOM	1257	H ARG	80	80.961	25.403	9.782	1.00	0.00	H
ATOM	1258	HA ARG	80	82.643	23.010	9.585	1.00	0.00	H
ATOM	1259	HB2 ARG	80	81.103	23.309	11.495	1.00	0.00	H
ATOM	1260	HB3 ARG	80	79.815	23.673	10.408	1.00	0.00	H
ATOM	1261	HG2 ARG	80	79.068	21.718	10.990	1.00	0.00	H
ATOM	1262	HG3 ARG	80	79.950	21.200	9.600	1.00	0.00	H
ATOM	1263	HD2 ARG	80	80.886	20.992	12.497	1.00	0.00	H
ATOM	1264	HD3 ARG	80	80.182	19.694	11.570	1.00	0.00	H
ATOM	1265	HE ARG	80	82.866	20.877	11.285	1.00	0.00	H
ATOM	1266	HH12 ARG	80	81.839	17.787	8.809	1.00	0.00	H
ATOM	1267	HH11 ARG	80	80.535	18.626	9.631	1.00	0.00	H
ATOM	1268	HH22 ARG	80	84.022	18.563	8.983	1.00	0.00	H
ATOM	1269	HH21 ARG	80	84.451	19.754	10.210	1.00	0.00	H
ATOM	1270	N PRO	81	81.787	22.118	7.223	1.00	62.37	N
ATOM	1271	CA PRO	81	81.277	21.489	5.986	1.00	62.37	C
ATOM	1272	C PRO	81	79.824	20.979	5.998	1.00	62.37	C
ATOM	1273	O PRO	81	79.157	21.009	4.969	1.00	62.37	O
ATOM	1274	CD PRO	81	83.173	21.707	7.447	1.00	62.37	C
ATOM	1275	CB PRO	81	82.245	20.339	5.697	1.00	62.37	C
ATOM	1276	CG PRO	81	83.564	20.823	6.262	1.00	62.37	C
ATOM	1277	HA PRO	81	81.363	22.239	5.196	1.00	0.00	H
ATOM	1278	HD3 PRO	81	83.836	22.570	7.511	1.00	0.00	H
ATOM	1279	HD2 PRO	81	83.240	21.159	8.380	1.00	0.00	H
ATOM	1280	HB2 PRO	81	81.932	19.434	6.221	1.00	0.00	H

ATOM	1281	HB3 PRO	81	82.314	20.098	4.637	1.00	0.00	H
ATOM	1282	HG3 PRO	81	84.063	21.423	5.501	1.00	0.00	H
ATOM	1283	HG2 PRO	81	84.245	20.017	6.536	1.00	0.00	H
ATOM	1284	N SER	82	79.294	20.572	7.155	1.00	74.47	N
ATOM	1285	CA SER	82	77.888	20.233	7.359	1.00	74.47	C
ATOM	1286	C SER	82	76.943	21.417	7.051	1.00	74.47	C
ATOM	1287	O SER	82	75.870	21.190	6.501	1.00	74.47	O
ATOM	1288	CB SER	82	77.707	19.745	8.804	1.00	74.47	C
ATOM	1289	OG SER	82	78.731	18.803	9.127	1.00	74.47	O
ATOM	1290	H SER	82	79.890	20.472	7.960	1.00	0.00	H
ATOM	1291	HA SER	82	77.646	19.409	6.690	1.00	0.00	H
ATOM	1292	HB2 SER	82	77.709	20.573	9.513	1.00	0.00	H
ATOM	1293	HB3 SER	82	76.728	19.274	8.895	1.00	0.00	H
ATOM	1294	HG SER	82	78.545	18.016	8.621	1.00	0.00	H
ATOM	1295	N TYR	83	77.376	22.666	7.298	1.00	55.12	N
ATOM	1296	CA TYR	83	76.643	23.906	7.006	1.00	55.12	C
ATOM	1297	C TYR	83	76.769	24.289	5.518	1.00	55.12	C
ATOM	1298	O TYR	83	76.039	25.158	5.052	1.00	55.12	O
ATOM	1299	CB TYR	83	77.231	25.080	7.831	1.00	55.12	C
ATOM	1300	CG TYR	83	77.316	24.917	9.344	1.00	55.12	C
ATOM	1301	CD1 TYR	83	78.257	25.683	10.065	1.00	55.12	C
ATOM	1302	CD2 TYR	83	76.469	24.032	10.046	1.00	55.12	C
ATOM	1303	CE1 TYR	83	78.398	25.522	11.458	1.00	55.12	C
ATOM	1304	CE2 TYR	83	76.614	23.871	11.435	1.00	55.12	C
ATOM	1305	CZ TYR	83	77.597	24.589	12.139	1.00	55.12	C
ATOM	1306	OH TYR	83	77.785	24.370	13.471	1.00	55.12	O
ATOM	1307	H TYR	83	78.313	22.803	7.667	1.00	0.00	H
ATOM	1308	HA TYR	83	75.586	23.783	7.245	1.00	0.00	H
ATOM	1309	HB2 TYR	83	78.230	25.322	7.463	1.00	0.00	H
ATOM	1310	HB3 TYR	83	76.640	25.979	7.650	1.00	0.00	H
ATOM	1311	HD1 TYR	83	78.885	26.389	9.548	1.00	0.00	H
ATOM	1312	HD2 TYR	83	75.707	23.461	9.537	1.00	0.00	H
ATOM	1313	HE1 TYR	83	79.132	26.095	12.003	1.00	0.00	H
ATOM	1314	HE2 TYR	83	75.969	23.188	11.959	1.00	0.00	H
ATOM	1315	HH TYR	83	77.215	23.664	13.820	1.00	0.00	H
ATOM	1316	N HIS	84	77.662	23.636	4.756	1.00	52.18	N
ATOM	1317	CA HIS	84	77.610	23.638	3.296	1.00	52.18	C
ATOM	1318	C HIS	84	76.601	22.556	2.907	1.00	52.18	C
ATOM	1319	O HIS	84	75.591	22.901	2.312	1.00	52.18	O
ATOM	1320	ND1 HIS	84	78.253	22.719	0.276	1.00	52.18	N
ATOM	1321	CG HIS	84	79.135	23.310	1.175	1.00	52.18	C
ATOM	1322	CB HIS	84	78.993	23.312	2.685	1.00	52.18	C
ATOM	1323	NE2 HIS	84	79.924	23.501	-0.952	1.00	52.18	N
ATOM	1324	CD2 HIS	84	80.178	23.758	0.397	1.00	52.18	C
ATOM	1325	CE1 HIS	84	78.796	22.793	-0.937	1.00	52.18	C
ATOM	1326	H HIS	84	78.187	22.900	5.207	1.00	0.00	H
ATOM	1327	HA HIS	84	77.273	24.606	2.919	1.00	0.00	H
ATOM	1328	HD1 HIS	84	77.338	22.273	0.436	1.00	0.00	H
ATOM	1329	HB2 HIS	84	79.723	24.019	3.080	1.00	0.00	H
ATOM	1330	HB3 HIS	84	79.338	22.337	3.004	1.00	0.00	H
ATOM	1331	HD2 HIS	84	81.101	24.215	0.717	1.00	0.00	H
ATOM	1332	HE1 HIS	84	78.335	22.356	-1.814	1.00	0.00	H
ATOM	1333	N PHE	85	76.865	21.284	3.260	1.00	135.75	N
ATOM	1334	CA PHE	85	76.074	20.082	2.949	1.00	135.75	C
ATOM	1335	C PHE	85	74.554	20.284	3.063	1.00	135.75	C
ATOM	1336	O PHE	85	73.845	20.161	2.070	1.00	135.75	O

ATOM	1337	CB	PHE	85	76.645	18.845	3.702	1.00135.75	C
ATOM	1338	CG	PHE	85	75.664	17.789	4.204	1.00135.75	C
ATOM	1339	CD1	PHE	85	75.207	16.767	3.345	1.00135.75	C
ATOM	1340	CD2	PHE	85	75.169	17.852	5.525	1.00135.75	C
ATOM	1341	CE1	PHE	85	74.248	15.838	3.791	1.00135.75	C
ATOM	1342	CE2	PHE	85	74.209	16.924	5.971	1.00135.75	C
ATOM	1343	CZ	PHE	85	73.742	15.921	5.101	1.00135.75	C
ATOM	1344	H	PHE	85	77.708	21.131	3.804	1.00 0.00	H
ATOM	1345	HA	PHE	85	76.246	19.899	1.888	1.00 0.00	H
ATOM	1346	HB2	PHE	85	77.372	18.347	3.058	1.00 0.00	H
ATOM	1347	HB3	PHE	85	77.223	19.176	4.560	1.00 0.00	H
ATOM	1348	HD1	PHE	85	75.556	16.708	2.328	1.00 0.00	H
ATOM	1349	HD2	PHE	85	75.478	18.641	6.192	1.00 0.00	H
ATOM	1350	HE1	PHE	85	73.869	15.084	3.114	1.00 0.00	H
ATOM	1351	HE2	PHE	85	73.799	17.002	6.967	1.00 0.00	H
ATOM	1352	HZ	PHE	85	72.969	15.240	5.427	1.00 0.00	H
ATOM	1353	N	ILE	86	74.073	20.684	4.245	1.00124.18	N
ATOM	1354	CA	ILE	86	72.649	20.825	4.556	1.00124.18	C
ATOM	1355	C	ILE	86	72.014	22.043	3.836	1.00124.18	C
ATOM	1356	O	ILE	86	70.794	22.141	3.719	1.00124.18	O
ATOM	1357	CB	ILE	86	72.538	20.925	6.106	1.00124.18	C
ATOM	1358	CG2	ILE	86	72.900	22.317	6.665	1.00124.18	C
ATOM	1359	CG1	ILE	86	71.170	20.454	6.636	1.00124.18	C
ATOM	1360	CD1	ILE	86	70.996	18.932	6.617	1.00124.18	C
ATOM	1361	H	ILE	86	74.721	20.836	5.011	1.00 0.00	H
ATOM	1362	HA	ILE	86	72.142	19.924	4.205	1.00 0.00	H
ATOM	1363	HB	ILE	86	73.269	20.237	6.534	1.00 0.00	H
ATOM	1364	HG21	ILE	86	73.059	22.277	7.742	1.00 0.00	H
ATOM	1365	HG22	ILE	86	73.809	22.708	6.212	1.00 0.00	H
ATOM	1366	HG23	ILE	86	72.111	23.042	6.470	1.00 0.00	H
ATOM	1367	HG12	ILE	86	71.038	20.790	7.665	1.00 0.00	H
ATOM	1368	HG13	ILE	86	70.362	20.905	6.062	1.00 0.00	H
ATOM	1369	HD11	ILE	86	70.073	18.665	7.127	1.00 0.00	H
ATOM	1370	HD12	ILE	86	70.934	18.533	5.604	1.00 0.00	H
ATOM	1371	HD13	ILE	86	71.808	18.423	7.133	1.00 0.00	H
ATOM	1372	N	GLY	87	72.843	22.943	3.297	1.00 29.89	N
ATOM	1373	CA	GLY	87	72.440	24.187	2.664	1.00 29.89	C
ATOM	1374	C	GLY	87	72.485	24.065	1.146	1.00 29.89	C
ATOM	1375	O	GLY	87	71.597	24.581	0.473	1.00 29.89	O
ATOM	1376	H	GLY	87	73.834	22.746	3.334	1.00 0.00	H
ATOM	1377	HA2	GLY	87	71.461	24.529	3.004	1.00 0.00	H
ATOM	1378	HA3	GLY	87	73.167	24.942	2.945	1.00 0.00	H
ATOM	1379	N	SER	88	73.465	23.327	0.605	1.00 83.90	N
ATOM	1380	CA	SER	88	73.473	22.858	-0.775	1.00 83.90	C
ATOM	1381	C	SER	88	72.411	21.765	-1.022	1.00 83.90	C
ATOM	1382	O	SER	88	72.014	21.595	-2.170	1.00 83.90	O
ATOM	1383	CB	SER	88	74.912	22.458	-1.182	1.00 83.90	C
ATOM	1384	OG	SER	88	75.577	21.562	-0.302	1.00 83.90	O
ATOM	1385	H	SER	88	74.188	22.942	1.210	1.00 0.00	H
ATOM	1386	HA	SER	88	73.193	23.694	-1.417	1.00 0.00	H
ATOM	1387	HB2	SER	88	74.898	22.016	-2.180	1.00 0.00	H
ATOM	1388	HB3	SER	88	75.518	23.361	-1.261	1.00 0.00	H
ATOM	1389	HG	SER	88	75.186	20.692	-0.467	1.00 0.00	H
ATOM	1390	N	LEU	89	71.874	21.122	0.032	1.00 95.12	N
ATOM	1391	CA	LEU	89	70.595	20.407	-0.008	1.00 95.12	C
ATOM	1392	C	LEU	89	69.435	21.410	-0.072	1.00 95.12	C

ATOM	1393	O	LEU	89	68.650	21.371	-1.014	1.00	95.12	O
ATOM	1394	CB	LEU	89	70.390	19.518	1.255	1.00	95.12	C
ATOM	1395	CG	LEU	89	70.689	18.015	1.100	1.00	95.12	C
ATOM	1396	CD1	LEU	89	70.016	17.401	-0.132	1.00	95.12	C
ATOM	1397	CD2	LEU	89	72.181	17.701	1.135	1.00	95.12	C
ATOM	1398	H	LEU	89	72.341	21.200	0.925	1.00	0.00	H
ATOM	1399	HA	LEU	89	70.549	19.821	-0.925	1.00	0.00	H
ATOM	1400	HB2	LEU	89	70.940	19.920	2.104	1.00	0.00	H
ATOM	1401	HB3	LEU	89	69.343	19.562	1.567	1.00	0.00	H
ATOM	1402	HG	LEU	89	70.255	17.524	1.973	1.00	0.00	H
ATOM	1403	HD11	LEU	89	70.044	16.317	-0.061	1.00	0.00	H
ATOM	1404	HD12	LEU	89	68.970	17.705	-0.209	1.00	0.00	H
ATOM	1405	HD13	LEU	89	70.502	17.678	-1.065	1.00	0.00	H
ATOM	1406	HD21	LEU	89	72.376	16.648	0.929	1.00	0.00	H
ATOM	1407	HD22	LEU	89	72.692	18.307	0.392	1.00	0.00	H
ATOM	1408	HD23	LEU	89	72.602	17.927	2.114	1.00	0.00	H
ATOM	1409	N	ALA	90	69.328	22.315	0.916	1.00	39.06	N
ATOM	1410	CA	ALA	90	68.191	23.219	1.105	1.00	39.06	C
ATOM	1411	C	ALA	90	67.779	24.039	-0.123	1.00	39.06	C
ATOM	1412	O	ALA	90	66.592	24.114	-0.419	1.00	39.06	O
ATOM	1413	CB	ALA	90	68.425	24.130	2.311	1.00	39.06	C
ATOM	1414	H	ALA	90	70.002	22.259	1.668	1.00	0.00	H
ATOM	1415	HA	ALA	90	67.332	22.588	1.320	1.00	0.00	H
ATOM	1416	HB1	ALA	90	67.548	24.757	2.473	1.00	0.00	H
ATOM	1417	HB2	ALA	90	68.590	23.562	3.226	1.00	0.00	H
ATOM	1418	HB3	ALA	90	69.277	24.790	2.156	1.00	0.00	H
ATOM	1419	N	VAL	91	68.742	24.596	-0.867	1.00	102.70	N
ATOM	1420	CA	VAL	91	68.478	25.360	-2.092	1.00	102.70	C
ATOM	1421	C	VAL	91	67.996	24.485	-3.273	1.00	102.70	C
ATOM	1422	O	VAL	91	67.554	25.032	-4.279	1.00	102.70	O
ATOM	1423	CB	VAL	91	69.753	26.152	-2.496	1.00	102.70	C
ATOM	1424	CG1	VAL	91	70.137	27.191	-1.427	1.00	102.70	C
ATOM	1425	CG2	VAL	91	70.958	25.261	-2.861	1.00	102.70	C
ATOM	1426	H	VAL	91	69.704	24.476	-0.574	1.00	0.00	H
ATOM	1427	HA	VAL	91	67.674	26.071	-1.889	1.00	0.00	H
ATOM	1428	HB	VAL	91	69.501	26.721	-3.394	1.00	0.00	H
ATOM	1429	HG11	VAL	91	70.958	27.822	-1.767	1.00	0.00	H
ATOM	1430	HG12	VAL	91	69.294	27.846	-1.202	1.00	0.00	H
ATOM	1431	HG13	VAL	91	70.443	26.719	-0.495	1.00	0.00	H
ATOM	1432	HG21	VAL	91	71.845	25.858	-3.069	1.00	0.00	H
ATOM	1433	HG22	VAL	91	71.198	24.565	-2.061	1.00	0.00	H
ATOM	1434	HG23	VAL	91	70.758	24.664	-3.752	1.00	0.00	H
ATOM	1435	N	ALA	92	68.105	23.154	-3.167	1.00	40.50	N
ATOM	1436	CA	ALA	92	67.647	22.195	-4.162	1.00	40.50	C
ATOM	1437	C	ALA	92	66.361	21.505	-3.693	1.00	40.50	C
ATOM	1438	O	ALA	92	65.456	21.334	-4.503	1.00	40.50	O
ATOM	1439	CB	ALA	92	68.733	21.139	-4.348	1.00	40.50	C
ATOM	1440	H	ALA	92	68.442	22.767	-2.293	1.00	0.00	H
ATOM	1441	HA	ALA	92	67.460	22.680	-5.122	1.00	0.00	H
ATOM	1442	HB1	ALA	92	68.455	20.448	-5.141	1.00	0.00	H
ATOM	1443	HB2	ALA	92	69.674	21.608	-4.634	1.00	0.00	H
ATOM	1444	HB3	ALA	92	68.907	20.553	-3.445	1.00	0.00	H
ATOM	1445	N	ASP	93	66.232	21.172	-2.399	1.00	40.91	N
ATOM	1446	CA	ASP	93	65.007	20.622	-1.794	1.00	40.91	C
ATOM	1447	C	ASP	93	63.858	21.643	-1.864	1.00	40.91	C
ATOM	1448	O	ASP	93	62.741	21.294	-2.245	1.00	40.91	O

ATOM	1449	CB	ASP	93	65.221	20.228	-0.311	1.00	40.91	C
ATOM	1450	CG	ASP	93	66.055	18.978	-0.042	1.00	40.91	C
ATOM	1451	OD1	ASP	93	65.872	17.969	-0.762	1.00	40.91	O
ATOM	1452	OD2	ASP	93	66.799	18.991	0.964	1.00	40.91	O1-
ATOM	1453	H	ASP	93	67.052	21.265	-1.805	1.00	0.00	H
ATOM	1454	HA	ASP	93	64.703	19.741	-2.362	1.00	0.00	H
ATOM	1455	HB2	ASP	93	65.661	21.069	0.224	1.00	0.00	H
ATOM	1456	HB3	ASP	93	64.254	20.044	0.160	1.00	0.00	H
ATOM	1457	N	LEU	94	64.151	22.924	-1.588	1.00	44.67	N
ATOM	1458	CA	LEU	94	63.204	24.038	-1.701	1.00	44.67	C
ATOM	1459	C	LEU	94	63.151	24.612	-3.136	1.00	44.67	C
ATOM	1460	O	LEU	94	62.528	25.651	-3.352	1.00	44.67	O
ATOM	1461	CB	LEU	94	63.604	25.175	-0.730	1.00	44.67	C
ATOM	1462	CG	LEU	94	63.610	24.787	0.766	1.00	44.67	C
ATOM	1463	CD1	LEU	94	64.324	25.866	1.590	1.00	44.67	C
ATOM	1464	CD2	LEU	94	62.195	24.542	1.317	1.00	44.67	C
ATOM	1465	H	LEU	94	65.094	23.151	-1.291	1.00	0.00	H
ATOM	1466	HA	LEU	94	62.203	23.690	-1.450	1.00	0.00	H
ATOM	1467	HB2	LEU	94	64.584	25.555	-1.021	1.00	0.00	H
ATOM	1468	HB3	LEU	94	62.926	26.021	-0.857	1.00	0.00	H
ATOM	1469	HG	LEU	94	64.176	23.863	0.882	1.00	0.00	H
ATOM	1470	HD11	LEU	94	64.344	25.600	2.642	1.00	0.00	H
ATOM	1471	HD12	LEU	94	65.356	25.986	1.263	1.00	0.00	H
ATOM	1472	HD13	LEU	94	63.828	26.832	1.497	1.00	0.00	H
ATOM	1473	HD21	LEU	94	62.224	24.260	2.369	1.00	0.00	H
ATOM	1474	HD22	LEU	94	61.568	25.429	1.224	1.00	0.00	H
ATOM	1475	HD23	LEU	94	61.698	23.728	0.789	1.00	0.00	H
ATOM	1476	N	LEU	95	63.780	23.943	-4.112	1.00	132.12	N
ATOM	1477	CA	LEU	95	63.489	24.108	-5.533	1.00	132.12	C
ATOM	1478	C	LEU	95	62.598	22.923	-5.940	1.00	132.12	C
ATOM	1479	O	LEU	95	61.548	23.138	-6.538	1.00	132.12	O
ATOM	1480	CB	LEU	95	64.805	24.128	-6.347	1.00	132.12	C
ATOM	1481	CG	LEU	95	64.652	24.376	-7.866	1.00	132.12	C
ATOM	1482	CD1	LEU	95	64.049	25.753	-8.190	1.00	132.12	C
ATOM	1483	CD2	LEU	95	66.001	24.199	-8.580	1.00	132.12	C
ATOM	1484	H	LEU	95	64.252	23.095	-3.835	1.00	0.00	H
ATOM	1485	HA	LEU	95	62.938	25.034	-5.706	1.00	0.00	H
ATOM	1486	HB2	LEU	95	65.458	24.897	-5.933	1.00	0.00	H
ATOM	1487	HB3	LEU	95	65.334	23.188	-6.207	1.00	0.00	H
ATOM	1488	HG	LEU	95	63.979	23.624	-8.275	1.00	0.00	H
ATOM	1489	HD11	LEU	95	64.000	25.915	-9.267	1.00	0.00	H
ATOM	1490	HD12	LEU	95	63.030	25.846	-7.815	1.00	0.00	H
ATOM	1491	HD13	LEU	95	64.640	26.561	-7.758	1.00	0.00	H
ATOM	1492	HD21	LEU	95	65.894	24.322	-9.658	1.00	0.00	H
ATOM	1493	HD22	LEU	95	66.733	24.928	-8.230	1.00	0.00	H
ATOM	1494	HD23	LEU	95	66.412	23.205	-8.406	1.00	0.00	H
ATOM	1495	N	GLY	96	62.981	21.686	-5.576	1.00	38.81	N
ATOM	1496	CA	GLY	96	62.206	20.438	-5.511	1.00	38.81	C
ATOM	1497	C	GLY	96	60.709	20.602	-5.217	1.00	38.81	C
ATOM	1498	O	GLY	96	59.856	20.060	-5.923	1.00	38.81	O
ATOM	1499	H	GLY	96	63.910	21.605	-5.163	1.00	0.00	H
ATOM	1500	HA2	GLY	96	62.337	19.880	-6.438	1.00	0.00	H
ATOM	1501	HA3	GLY	96	62.637	19.816	-4.726	1.00	0.00	H
ATOM	1502	N	SER	97	60.401	21.401	-4.190	1.00	54.63	N
ATOM	1503	CA	SER	97	59.067	21.783	-3.744	1.00	54.63	C
ATOM	1504	C	SER	97	58.196	22.485	-4.812	1.00	54.63	C

ATOM	1505	O	SER	97	56.971	22.424	-4.722	1.00	54.63	O
ATOM	1506	CB	SER	97	59.218	22.647	-2.477	1.00	54.63	C
ATOM	1507	OG	SER	97	59.972	23.814	-2.752	1.00	54.63	O
ATOM	1508	H	SER	97	61.167	21.799	-3.658	1.00	0.00	H
ATOM	1509	HA	SER	97	58.566	20.864	-3.447	1.00	0.00	H
ATOM	1510	HB2	SER	97	58.232	22.936	-2.107	1.00	0.00	H
ATOM	1511	HB3	SER	97	59.702	22.083	-1.678	1.00	0.00	H
ATOM	1512	HG	SER	97	59.780	24.476	-2.103	1.00	0.00	H
ATOM	1513	N	VAL	98	58.801	23.112	-5.829	1.00	123.63	N
ATOM	1514	CA	VAL	98	58.133	23.940	-6.832	1.00	123.63	C
ATOM	1515	C	VAL	98	58.448	23.488	-8.270	1.00	123.63	C
ATOM	1516	O	VAL	98	57.582	23.601	-9.130	1.00	123.63	O
ATOM	1517	CB	VAL	98	58.343	25.447	-6.511	1.00	123.63	C
ATOM	1518	CG1	VAL	98	59.824	25.866	-6.432	1.00	123.63	C
ATOM	1519	CG2	VAL	98	57.560	26.378	-7.455	1.00	123.63	C
ATOM	1520	H	VAL	98	59.817	23.108	-5.841	1.00	0.00	H
ATOM	1521	HA	VAL	98	57.061	23.773	-6.748	1.00	0.00	H
ATOM	1522	HB	VAL	98	57.922	25.611	-5.518	1.00	0.00	H
ATOM	1523	HG11	VAL	98	59.919	26.932	-6.225	1.00	0.00	H
ATOM	1524	HG12	VAL	98	60.343	25.343	-5.629	1.00	0.00	H
ATOM	1525	HG13	VAL	98	60.351	25.661	-7.365	1.00	0.00	H
ATOM	1526	HG21	VAL	98	57.613	27.415	-7.122	1.00	0.00	H
ATOM	1527	HG22	VAL	98	57.945	26.341	-8.475	1.00	0.00	H
ATOM	1528	HG23	VAL	98	56.505	26.103	-7.493	1.00	0.00	H
ATOM	1529	N	ILE	99	59.630	22.905	-8.523	1.00	170.80	N
ATOM	1530	CA	ILE	99	60.011	22.312	-9.814	1.00	170.80	C
ATOM	1531	C	ILE	99	59.538	20.837	-9.898	1.00	170.80	C
ATOM	1532	O	ILE	99	59.850	20.135	-10.859	1.00	170.80	O
ATOM	1533	CB	ILE	99	61.565	22.439	-9.971	1.00	170.80	C
ATOM	1534	CG2	ILE	99	62.371	21.355	-9.224	1.00	170.80	C
ATOM	1535	CG1	ILE	99	62.033	22.500	-11.443	1.00	170.80	C
ATOM	1536	CD1	ILE	99	61.656	23.801	-12.168	1.00	170.80	C
ATOM	1537	H	ILE	99	60.320	22.878	-7.776	1.00	0.00	H
ATOM	1538	HA	ILE	99	59.509	22.857	-10.614	1.00	0.00	H
ATOM	1539	HB	ILE	99	61.854	23.392	-9.525	1.00	0.00	H
ATOM	1540	HG21	ILE	99	63.428	21.606	-9.164	1.00	0.00	H
ATOM	1541	HG22	ILE	99	61.999	21.220	-8.214	1.00	0.00	H
ATOM	1542	HG23	ILE	99	62.305	20.386	-9.717	1.00	0.00	H
ATOM	1543	HG12	ILE	99	63.119	22.408	-11.476	1.00	0.00	H
ATOM	1544	HG13	ILE	99	61.649	21.643	-11.999	1.00	0.00	H
ATOM	1545	HD11	ILE	99	62.088	23.822	-13.169	1.00	0.00	H
ATOM	1546	HD12	ILE	99	60.577	23.906	-12.283	1.00	0.00	H
ATOM	1547	HD13	ILE	99	62.024	24.676	-11.632	1.00	0.00	H
ATOM	1548	N	PHE	100	58.821	20.349	-8.879	1.00	151.63	N
ATOM	1549	CA	PHE	100	58.173	19.050	-8.875	1.00	151.63	C
ATOM	1550	C	PHE	100	56.892	19.073	-8.040	1.00	151.63	C
ATOM	1551	O	PHE	100	55.808	18.887	-8.589	1.00	151.63	O
ATOM	1552	CB	PHE	100	59.141	17.905	-8.508	1.00	151.63	C
ATOM	1553	CG	PHE	100	58.559	16.533	-8.794	1.00	151.63	C
ATOM	1554	CD1	PHE	100	58.751	15.944	-10.058	1.00	151.63	C
ATOM	1555	CD2	PHE	100	57.756	15.880	-7.836	1.00	151.63	C
ATOM	1556	CE1	PHE	100	58.161	14.703	-10.361	1.00	151.63	C
ATOM	1557	CE2	PHE	100	57.134	14.660	-8.156	1.00	151.63	C
ATOM	1558	CZ	PHE	100	57.355	14.058	-9.408	1.00	151.63	C
ATOM	1559	H	PHE	100	58.609	20.987	-8.128	1.00	0.00	H
ATOM	1560	HA	PHE	100	57.841	18.863	-9.900	1.00	0.00	H

ATOM	1561	HB2 PHE	100	60.067	18.010	-9.071	1.00	0.00	H
ATOM	1562	HB3 PHE	100	59.429	17.960	-7.459	1.00	0.00	H
ATOM	1563	HD1 PHE	100	59.337	16.453	-10.806	1.00	0.00	H
ATOM	1564	HD2 PHE	100	57.575	16.333	-6.872	1.00	0.00	H
ATOM	1565	HE1 PHE	100	58.315	14.256	-11.331	1.00	0.00	H
ATOM	1566	HE2 PHE	100	56.474	14.188	-7.448	1.00	0.00	H
ATOM	1567	HZ PHE	100	56.878	13.119	-9.645	1.00	0.00	H
ATOM	1568	N VAL	101	57.010	19.243	-6.713	1.00	61.60	N
ATOM	1569	CA VAL	101	55.933	18.922	-5.768	1.00	61.60	C
ATOM	1570	C VAL	101	54.675	19.795	-5.967	1.00	61.60	C
ATOM	1571	O VAL	101	53.579	19.233	-6.001	1.00	61.60	O
ATOM	1572	CB VAL	101	56.454	18.948	-4.306	1.00	61.60	C
ATOM	1573	CG1 VAL	101	55.384	18.575	-3.267	1.00	61.60	C
ATOM	1574	CG2 VAL	101	57.675	18.029	-4.097	1.00	61.60	C
ATOM	1575	H VAL	101	57.938	19.424	-6.341	1.00	0.00	H
ATOM	1576	HA VAL	101	55.630	17.896	-5.985	1.00	0.00	H
ATOM	1577	HB VAL	101	56.745	19.969	-4.083	1.00	0.00	H
ATOM	1578	HG11 VAL	101	55.795	18.597	-2.258	1.00	0.00	H
ATOM	1579	HG12 VAL	101	54.543	19.271	-3.270	1.00	0.00	H
ATOM	1580	HG13 VAL	101	54.988	17.575	-3.443	1.00	0.00	H
ATOM	1581	HG21 VAL	101	58.047	18.099	-3.074	1.00	0.00	H
ATOM	1582	HG22 VAL	101	57.419	16.985	-4.282	1.00	0.00	H
ATOM	1583	HG23 VAL	101	58.507	18.279	-4.751	1.00	0.00	H
ATOM	1584	N TYR	102	54.813	21.123	-6.143	1.00	145.44	N
ATOM	1585	CA TYR	102	53.688	22.028	-6.426	1.00	145.44	C
ATOM	1586	C TYR	102	52.954	21.634	-7.724	1.00	145.44	C
ATOM	1587	O TYR	102	51.753	21.381	-7.708	1.00	145.44	O
ATOM	1588	CB TYR	102	54.106	23.519	-6.457	1.00	145.44	C
ATOM	1589	CG TYR	102	52.939	24.437	-6.797	1.00	145.44	C
ATOM	1590	CD1 TYR	102	51.733	24.337	-6.066	1.00	145.44	C
ATOM	1591	CD2 TYR	102	52.985	25.251	-7.951	1.00	145.44	C
ATOM	1592	CE1 TYR	102	50.559	24.933	-6.555	1.00	145.44	C
ATOM	1593	CE2 TYR	102	51.812	25.877	-8.419	1.00	145.44	C
ATOM	1594	CZ TYR	102	50.590	25.673	-7.749	1.00	145.44	C
ATOM	1595	OH TYR	102	49.427	26.132	-8.286	1.00	145.44	O
ATOM	1596	H TYR	102	55.726	21.534	-5.988	1.00	0.00	H
ATOM	1597	HA TYR	102	52.993	21.914	-5.598	1.00	0.00	H
ATOM	1598	HB2 TYR	102	54.521	23.819	-5.495	1.00	0.00	H
ATOM	1599	HB3 TYR	102	54.889	23.663	-7.201	1.00	0.00	H
ATOM	1600	HD1 TYR	102	51.657	23.712	-5.190	1.00	0.00	H
ATOM	1601	HD2 TYR	102	53.891	25.335	-8.533	1.00	0.00	H
ATOM	1602	HE1 TYR	102	49.614	24.757	-6.057	1.00	0.00	H
ATOM	1603	HE2 TYR	102	51.825	26.445	-9.337	1.00	0.00	H
ATOM	1604	HH TYR	102	48.748	25.427	-8.226	1.00	0.00	H
ATOM	1605	N SER	103	53.694	21.460	-8.824	1.00	65.47	N
ATOM	1606	CA SER	103	53.192	20.985	-10.111	1.00	65.47	C
ATOM	1607	C SER	103	52.648	19.536	-10.089	1.00	65.47	C
ATOM	1608	O SER	103	52.135	19.072	-11.105	1.00	65.47	O
ATOM	1609	CB SER	103	54.330	21.166	-11.141	1.00	65.47	C
ATOM	1610	OG SER	103	55.589	20.768	-10.613	1.00	65.47	O
ATOM	1611	H SER	103	54.691	21.629	-8.801	1.00	0.00	H
ATOM	1612	HA SER	103	52.353	21.617	-10.410	1.00	0.00	H
ATOM	1613	HB2 SER	103	54.124	20.607	-12.057	1.00	0.00	H
ATOM	1614	HB3 SER	103	54.401	22.214	-11.435	1.00	0.00	H
ATOM	1615	HG SER	103	55.506	19.896	-10.238	1.00	0.00	H
ATOM	1616	N PHE	104	52.729	18.838	-8.946	1.00	156.07	N

ATOM	1617	CA	PHE	104	52.191	17.504	-8.738	1.00156.07	C
ATOM	1618	C	PHE	104	50.955	17.500	-7.823	1.00156.07	C
ATOM	1619	O	PHE	104	50.084	16.675	-8.067	1.00156.07	O
ATOM	1620	CB	PHE	104	53.284	16.521	-8.263	1.00156.07	C
ATOM	1621	CG	PHE	104	53.848	15.687	-9.405	1.00156.07	C
ATOM	1622	CD1	PHE	104	54.582	16.304	-10.441	1.00156.07	C
ATOM	1623	CD2	PHE	104	53.579	14.304	-9.477	1.00156.07	C
ATOM	1624	CE1	PHE	104	55.023	15.552	-11.547	1.00156.07	C
ATOM	1625	CE2	PHE	104	54.026	13.550	-10.579	1.00156.07	C
ATOM	1626	CZ	PHE	104	54.743	14.174	-11.619	1.00156.07	C
ATOM	1627	H	PHE	104	53.151	19.299	-8.152	1.00 0.00	H
ATOM	1628	HA	PHE	104	51.845	17.112	-9.691	1.00 0.00	H
ATOM	1629	HB2	PHE	104	54.097	17.045	-7.762	1.00 0.00	H
ATOM	1630	HB3	PHE	104	52.877	15.836	-7.517	1.00 0.00	H
ATOM	1631	HD1	PHE	104	54.788	17.363	-10.404	1.00 0.00	H
ATOM	1632	HD2	PHE	104	53.005	13.819	-8.702	1.00 0.00	H
ATOM	1633	HE1	PHE	104	55.573	16.038	-12.339	1.00 0.00	H
ATOM	1634	HE2	PHE	104	53.805	12.494	-10.630	1.00 0.00	H
ATOM	1635	HZ	PHE	104	55.078	13.599	-12.468	1.00 0.00	H
ATOM	1636	N	ILE	105	50.792	18.390	-6.829	1.00 94.72	N
ATOM	1637	CA	ILE	105	49.586	18.418	-5.975	1.00 94.72	C
ATOM	1638	C	ILE	105	48.315	18.796	-6.769	1.00 94.72	C
ATOM	1639	O	ILE	105	47.324	18.061	-6.721	1.00 94.72	O
ATOM	1640	CB	ILE	105	49.787	19.276	-4.686	1.00 94.72	C
ATOM	1641	CG2	ILE	105	50.434	20.645	-4.935	1.00 94.72	C
ATOM	1642	CG1	ILE	105	48.496	19.401	-3.841	1.00 94.72	C
ATOM	1643	CD1	ILE	105	48.712	20.027	-2.461	1.00 94.72	C
ATOM	1644	H	ILE	105	51.490	19.113	-6.698	1.00 0.00	H
ATOM	1645	HA	ILE	105	49.419	17.396	-5.636	1.00 0.00	H
ATOM	1646	HB	ILE	105	50.501	18.726	-4.074	1.00 0.00	H
ATOM	1647	HG21	ILE	105	50.602	21.203	-4.016	1.00 0.00	H
ATOM	1648	HG22	ILE	105	51.406	20.509	-5.387	1.00 0.00	H
ATOM	1649	HG23	ILE	105	49.835	21.275	-5.593	1.00 0.00	H
ATOM	1650	HG12	ILE	105	47.746	19.993	-4.370	1.00 0.00	H
ATOM	1651	HG13	ILE	105	48.064	18.409	-3.708	1.00 0.00	H
ATOM	1652	HD11	ILE	105	47.835	19.886	-1.831	1.00 0.00	H
ATOM	1653	HD12	ILE	105	49.572	19.583	-1.964	1.00 0.00	H
ATOM	1654	HD13	ILE	105	48.884	21.101	-2.537	1.00 0.00	H
ATOM	1655	N	ASP	106	48.371	19.889	-7.541	1.00 43.96	N
ATOM	1656	CA	ASP	106	47.257	20.413	-8.348	1.00 43.96	C
ATOM	1657	C	ASP	106	46.962	19.493	-9.550	1.00 43.96	C
ATOM	1658	O	ASP	106	45.835	19.435	-10.043	1.00 43.96	O
ATOM	1659	CB	ASP	106	47.570	21.842	-8.869	1.00 43.96	C
ATOM	1660	CG	ASP	106	47.768	22.925	-7.803	1.00 43.96	C
ATOM	1661	OD1	ASP	106	47.896	22.578	-6.610	1.00 43.96	O
ATOM	1662	OD2	ASP	106	47.822	24.110	-8.200	1.00 43.96	O1-
ATOM	1663	H	ASP	106	49.139	20.533	-7.390	1.00 0.00	H
ATOM	1664	HA	ASP	106	46.364	20.458	-7.722	1.00 0.00	H
ATOM	1665	HB2	ASP	106	48.466	21.831	-9.490	1.00 0.00	H
ATOM	1666	HB3	ASP	106	46.757	22.180	-9.512	1.00 0.00	H
ATOM	1667	N	PHE	107	47.966	18.714	-9.976	1.00 71.98	N
ATOM	1668	CA	PHE	107	47.846	17.589	-10.902	1.00 71.98	C
ATOM	1669	C	PHE	107	47.118	16.426	-10.202	1.00 71.98	C
ATOM	1670	O	PHE	107	46.071	16.002	-10.690	1.00 71.98	O
ATOM	1671	CB	PHE	107	49.261	17.181	-11.396	1.00 71.98	C
ATOM	1672	CG	PHE	107	49.508	15.725	-11.787	1.00 71.98	C

ATOM	1673	CD1 PHE	107	48.984	15.213	-12.988	1.00	71.98	C
ATOM	1674	CD2 PHE	107	50.258	14.872	-10.947	1.00	71.98	C
ATOM	1675	CE1 PHE	107	49.206	13.869	-13.345	1.00	71.98	C
ATOM	1676	CE2 PHE	107	50.476	13.528	-11.300	1.00	71.98	C
ATOM	1677	CZ PHE	107	49.950	13.023	-12.501	1.00	71.98	C
ATOM	1678	H PHE	107	48.836	18.835	-9.480	1.00	0.00	H
ATOM	1679	HA PHE	107	47.246	17.891	-11.763	1.00	0.00	H
ATOM	1680	HB2 PHE	107	49.525	17.805	-12.252	1.00	0.00	H
ATOM	1681	HB3 PHE	107	49.988	17.445	-10.638	1.00	0.00	H
ATOM	1682	HD1 PHE	107	48.408	15.859	-13.630	1.00	0.00	H
ATOM	1683	HD2 PHE	107	50.671	15.228	-10.017	1.00	0.00	H
ATOM	1684	HE1 PHE	107	48.802	13.479	-14.265	1.00	0.00	H
ATOM	1685	HE2 PHE	107	51.050	12.889	-10.644	1.00	0.00	H
ATOM	1686	HZ PHE	107	50.113	11.988	-12.766	1.00	0.00	H
ATOM	1687	N HIS	108	47.657	15.932	-9.073	1.00	75.96	N
ATOM	1688	CA HIS	108	47.275	14.730	-8.323	1.00	75.96	C
ATOM	1689	C HIS	108	45.773	14.527	-8.133	1.00	75.96	C
ATOM	1690	O HIS	108	45.288	13.426	-8.371	1.00	75.96	O
ATOM	1691	ND1 HIS	108	50.271	14.102	-5.914	1.00	75.96	N
ATOM	1692	CG HIS	108	49.350	13.934	-6.938	1.00	75.96	C
ATOM	1693	CB HIS	108	48.013	14.645	-6.962	1.00	75.96	C
ATOM	1694	NE2 HIS	108	51.153	12.592	-7.277	1.00	75.96	N
ATOM	1695	CD2 HIS	108	49.916	13.001	-7.780	1.00	75.96	C
ATOM	1696	CE1 HIS	108	51.303	13.298	-6.166	1.00	75.96	C
ATOM	1697	H HIS	108	48.520	16.368	-8.749	1.00	0.00	H
ATOM	1698	HA HIS	108	47.592	13.888	-8.939	1.00	0.00	H
ATOM	1699	HD1 HIS	108	50.228	14.755	-5.123	1.00	0.00	H
ATOM	1700	HB2 HIS	108	48.136	15.642	-6.546	1.00	0.00	H
ATOM	1701	HB3 HIS	108	47.392	14.116	-6.239	1.00	0.00	H
ATOM	1702	HD2 HIS	108	49.519	12.574	-8.690	1.00	0.00	H
ATOM	1703	HE1 HIS	108	52.176	13.233	-5.533	1.00	0.00	H
ATOM	1704	N VAL	109	45.049	15.583	-7.735	1.00	99.50	N
ATOM	1705	CA VAL	109	43.606	15.570	-7.486	1.00	99.50	C
ATOM	1706	C VAL	109	42.777	15.156	-8.723	1.00	99.50	C
ATOM	1707	O VAL	109	41.849	14.353	-8.610	1.00	99.50	O
ATOM	1708	CB VAL	109	43.152	16.948	-6.922	1.00	99.50	C
ATOM	1709	CG1 VAL	109	43.650	17.168	-5.487	1.00	99.50	C
ATOM	1710	CG2 VAL	109	43.559	18.162	-7.783	1.00	99.50	C
ATOM	1711	H VAL	109	45.542	16.456	-7.590	1.00	0.00	H
ATOM	1712	HA VAL	109	43.416	14.808	-6.728	1.00	0.00	H
ATOM	1713	HB VAL	109	42.061	16.934	-6.876	1.00	0.00	H
ATOM	1714	HG11 VAL	109	43.195	18.056	-5.047	1.00	0.00	H
ATOM	1715	HG12 VAL	109	43.411	16.323	-4.842	1.00	0.00	H
ATOM	1716	HG13 VAL	109	44.729	17.319	-5.472	1.00	0.00	H
ATOM	1717	HG21 VAL	109	43.178	19.090	-7.356	1.00	0.00	H
ATOM	1718	HG22 VAL	109	44.641	18.269	-7.856	1.00	0.00	H
ATOM	1719	HG23 VAL	109	43.162	18.101	-8.793	1.00	0.00	H
ATOM	1720	N PHE	110	43.129	15.682	-9.901	1.00	92.25	N
ATOM	1721	CA PHE	110	42.394	15.474	-11.147	1.00	92.25	C
ATOM	1722	C PHE	110	43.081	14.448	-12.059	1.00	92.25	C
ATOM	1723	O PHE	110	42.414	13.843	-12.893	1.00	92.25	O
ATOM	1724	CB PHE	110	42.384	16.795	-11.939	1.00	92.25	C
ATOM	1725	CG PHE	110	41.646	17.965	-11.313	1.00	92.25	C
ATOM	1726	CD1 PHE	110	42.303	19.203	-11.145	1.00	92.25	C
ATOM	1727	CD2 PHE	110	40.295	17.832	-10.924	1.00	92.25	C
ATOM	1728	CE1 PHE	110	41.614	20.299	-10.592	1.00	92.25	C

ATOM	1729	CE2 PHE	110	39.606	18.931	-10.379	1.00	92.25	C
ATOM	1730	CZ PHE	110	40.265	20.165	-10.213	1.00	92.25	C
ATOM	1731	H PHE	110	43.944	16.283	-9.913	1.00	0.00	H
ATOM	1732	HA PHE	110	41.371	15.141	-10.962	1.00	0.00	H
ATOM	1733	HB2 PHE	110	43.409	17.103	-12.151	1.00	0.00	H
ATOM	1734	HB3 PHE	110	41.911	16.614	-12.904	1.00	0.00	H
ATOM	1735	HD1 PHE	110	43.345	19.320	-11.414	1.00	0.00	H
ATOM	1736	HD2 PHE	110	39.777	16.889	-11.045	1.00	0.00	H
ATOM	1737	HE1 PHE	110	42.127	21.240	-10.449	1.00	0.00	H
ATOM	1738	HE2 PHE	110	38.572	18.826	-10.081	1.00	0.00	H
ATOM	1739	HZ PHE	110	39.739	21.006	-9.785	1.00	0.00	H
ATOM	1740	N HIS	111	44.410	14.297	-11.951	1.00281.75		N
ATOM	1741	CA HIS	111	45.312	13.541	-12.833	1.00281.75		C
ATOM	1742	C HIS	111	45.698	14.359	-14.091	1.00281.75		C
ATOM	1743	O HIS	111	46.271	13.835	-15.050	1.00281.75		O
ATOM	1744	ND1 HIS	111	45.343	9.765	-12.392	1.00281.75		N
ATOM	1745	CG HIS	111	45.751	10.978	-12.914	1.00281.75		C
ATOM	1746	CB HIS	111	44.783	12.113	-13.123	1.00281.75		C
ATOM	1747	NE2 HIS	111	47.505	9.543	-12.831	1.00281.75		N
ATOM	1748	CD2 HIS	111	47.094	10.832	-13.174	1.00281.75		C
ATOM	1749	CE1 HIS	111	46.410	8.965	-12.350	1.00281.75		C
ATOM	1750	H HIS	111	44.882	14.841	-11.229	1.00	0.00	H
ATOM	1751	HA HIS	111	46.230	13.443	-12.252	1.00	0.00	H
ATOM	1752	HD1 HIS	111	44.408	9.583	-12.012	1.00	0.00	H
ATOM	1753	HB2 HIS	111	43.947	11.892	-12.466	1.00	0.00	H
ATOM	1754	HB3 HIS	111	44.370	12.048	-14.131	1.00	0.00	H
ATOM	1755	HD2 HIS	111	47.784	11.541	-13.600	1.00	0.00	H
ATOM	1756	HE1 HIS	111	46.393	7.955	-11.968	1.00	0.00	H
ATOM	1757	N ARG	112	45.356	15.653	-14.100	1.00163.39		N
ATOM	1758	CA ARG	112	45.283	16.541	-15.256	1.00163.39		C
ATOM	1759	C ARG	112	46.636	17.251	-15.452	1.00163.39		C
ATOM	1760	O ARG	112	47.154	17.859	-14.518	1.00163.39		O
ATOM	1761	CB ARG	112	44.167	17.564	-14.924	1.00163.39		C
ATOM	1762	CG ARG	112	43.702	18.449	-16.092	1.00163.39		C
ATOM	1763	CD ARG	112	42.501	19.383	-15.819	1.00163.39		C
ATOM	1764	NE ARG	112	41.551	18.867	-14.815	1.00163.39		N
ATOM	1765	CZ ARG	112	40.514	18.040	-15.031	1.00163.39		C
ATOM	1766	NH1 ARG	112	40.259	17.511	-16.222	1.00163.39		N
ATOM	1767	NH2 ARG	112	39.719	17.721	-14.013	1.00163.39		N1+
ATOM	1768	H ARG	112	45.035	16.021	-13.218	1.00	0.00	H
ATOM	1769	HA ARG	112	45.013	15.966	-16.145	1.00	0.00	H
ATOM	1770	HB2 ARG	112	43.300	16.987	-14.608	1.00	0.00	H
ATOM	1771	HB3 ARG	112	44.456	18.194	-14.081	1.00	0.00	H
ATOM	1772	HG2 ARG	112	44.537	19.066	-16.428	1.00	0.00	H
ATOM	1773	HG3 ARG	112	43.441	17.808	-16.929	1.00	0.00	H
ATOM	1774	HD2 ARG	112	42.875	20.335	-15.441	1.00	0.00	H
ATOM	1775	HD3 ARG	112	41.976	19.615	-16.747	1.00	0.00	H
ATOM	1776	HE ARG	112	41.676	19.241	-13.884	1.00	0.00	H
ATOM	1777	HH12 ARG	112	39.396	16.894	-16.305	1.00	0.00	H
ATOM	1778	HH11 ARG	112	40.799	17.598	-17.086	1.00	0.00	H
ATOM	1779	HH22 ARG	112	38.983	16.966	-14.130	1.00	0.00	H
ATOM	1780	HH21 ARG	112	39.799	18.084	-13.078	1.00	0.00	H
ATOM	1781	N LYS	113	47.214	17.153	-16.656	1.00	92.31	N
ATOM	1782	CA LYS	113	48.472	17.774	-17.083	1.00	92.31	C
ATOM	1783	C LYS	113	48.404	18.046	-18.594	1.00	92.31	C
ATOM	1784	O LYS	113	47.793	17.261	-19.318	1.00	92.31	O

ATOM	1785	CB	LYS	113	49.724	17.006	-16.585	1.00	92.31	C
ATOM	1786	CG	LYS	113	49.626	15.471	-16.402	1.00	92.31	C
ATOM	1787	CD	LYS	113	49.697	14.606	-17.672	1.00	92.31	C
ATOM	1788	CE	LYS	113	48.336	14.212	-18.268	1.00	92.31	C
ATOM	1789	NZ	LYS	113	47.524	13.355	-17.392	1.00	92.31	N1+
ATOM	1790	H	LYS	113	46.703	16.709	-17.406	1.00	0.00	H
ATOM	1791	HA	LYS	113	48.508	18.765	-16.623	1.00	0.00	H
ATOM	1792	HB2	LYS	113	50.586	17.255	-17.207	1.00	0.00	H
ATOM	1793	HB3	LYS	113	49.967	17.417	-15.604	1.00	0.00	H
ATOM	1794	HG2	LYS	113	50.480	15.190	-15.782	1.00	0.00	H
ATOM	1795	HG3	LYS	113	48.756	15.210	-15.806	1.00	0.00	H
ATOM	1796	HD2	LYS	113	50.289	15.127	-18.427	1.00	0.00	H
ATOM	1797	HD3	LYS	113	50.254	13.694	-17.450	1.00	0.00	H
ATOM	1798	HE2	LYS	113	47.734	15.083	-18.485	1.00	0.00	H
ATOM	1799	HE3	LYS	113	48.475	13.696	-19.219	1.00	0.00	H
ATOM	1800	HZ1	LYS	113	47.867	12.406	-17.333	1.00	0.00	H
ATOM	1801	HZ2	LYS	113	47.345	13.727	-16.463	1.00	0.00	H
ATOM	1802	HZ3	LYS	113	46.605	13.302	-17.837	1.00	0.00	H
ATOM	1803	N	ASP	114	48.934	19.174	-19.069	1.00	89.84	N
ATOM	1804	CA	ASP	114	48.623	19.756	-20.379	1.00	89.84	C
ATOM	1805	C	ASP	114	49.379	19.059	-21.527	1.00	89.84	C
ATOM	1806	O	ASP	114	48.751	18.662	-22.514	1.00	89.84	O
ATOM	1807	CB	ASP	114	48.939	21.282	-20.365	1.00	89.84	C
ATOM	1808	CG	ASP	114	50.403	21.680	-20.189	1.00	89.84	C
ATOM	1809	OD1	ASP	114	51.123	20.915	-19.513	1.00	89.84	O
ATOM	1810	OD2	ASP	114	50.829	22.660	-20.827	1.00	89.84	O1-
ATOM	1811	H	ASP	114	49.589	19.720	-18.515	1.00	0.00	H
ATOM	1812	HA	ASP	114	47.561	19.656	-20.580	1.00	0.00	H
ATOM	1813	HB2	ASP	114	48.590	21.726	-21.298	1.00	0.00	H
ATOM	1814	HB3	ASP	114	48.370	21.773	-19.576	1.00	0.00	H
ATOM	1815	N	SER	115	50.710	18.976	-21.442	1.00	202.40	N
ATOM	1816	CA	SER	115	51.593	18.823	-22.588	1.00	202.40	C
ATOM	1817	C	SER	115	53.014	18.407	-22.151	1.00	202.40	C
ATOM	1818	O	SER	115	53.309	18.179	-20.973	1.00	202.40	O
ATOM	1819	CB	SER	115	51.497	20.126	-23.443	1.00	202.40	C
ATOM	1820	OG	SER	115	52.474	20.291	-24.458	1.00	202.40	O
ATOM	1821	H	SER	115	51.116	19.435	-20.618	1.00	0.00	H
ATOM	1822	HA	SER	115	51.221	17.991	-23.190	1.00	0.00	H
ATOM	1823	HB2	SER	115	50.519	20.188	-23.920	1.00	0.00	H
ATOM	1824	HB3	SER	115	51.560	20.999	-22.791	1.00	0.00	H
ATOM	1825	HG	SER	115	52.987	21.053	-24.178	1.00	0.00	H
ATOM	1826	N	ARG	116	53.903	18.297	-23.148	1.00	134.83	N
ATOM	1827	CA	ARG	116	55.320	17.923	-23.106	1.00	134.83	C
ATOM	1828	C	ARG	116	56.121	18.690	-22.039	1.00	134.83	C
ATOM	1829	O	ARG	116	56.962	18.122	-21.343	1.00	134.83	O
ATOM	1830	CB	ARG	116	55.932	18.175	-24.502	1.00	134.83	C
ATOM	1831	CG	ARG	116	55.372	17.300	-25.638	1.00	134.83	C
ATOM	1832	CD	ARG	116	56.100	17.569	-26.967	1.00	134.83	C
ATOM	1833	NE	ARG	116	55.731	16.594	-28.007	1.00	134.83	N
ATOM	1834	CZ	ARG	116	56.562	15.868	-28.772	1.00	134.83	C
ATOM	1835	NH1	ARG	116	57.878	15.941	-28.615	1.00	134.83	N
ATOM	1836	NH2	ARG	116	56.081	15.057	-29.711	1.00	134.83	N1+
ATOM	1837	H	ARG	116	53.544	18.659	-24.027	1.00	0.00	H
ATOM	1838	HA	ARG	116	55.385	16.861	-22.870	1.00	0.00	H
ATOM	1839	HB2	ARG	116	55.804	19.226	-24.770	1.00	0.00	H
ATOM	1840	HB3	ARG	116	57.010	18.030	-24.446	1.00	0.00	H

ATOM	1841	HG2 ARG	116	55.467	16.246	-25.371	1.00	0.00		H
ATOM	1842	HG3 ARG	116	54.306	17.493	-25.763	1.00	0.00		H
ATOM	1843	HD2 ARG	116	55.871	18.572	-27.330	1.00	0.00		H
ATOM	1844	HD3 ARG	116	57.173	17.545	-26.791	1.00	0.00		H
ATOM	1845	HE ARG	116	54.711	16.487	-28.129	1.00	0.00		H
ATOM	1846	HH12 ARG	116	58.524	15.302	-29.160	1.00	0.00		H
ATOM	1847	HH11 ARG	116	58.352	16.687	-28.105	1.00	0.00		H
ATOM	1848	HH22 ARG	116	56.764	14.583	-30.361	1.00	0.00		H
ATOM	1849	HH21 ARG	116	55.108	14.988	-29.958	1.00	0.00		H
ATOM	1850	N ASN	117	55.811	19.984	-21.925	1.00	79.23		N
ATOM	1851	CA ASN	117	56.326	20.975	-20.982	1.00	79.23		C
ATOM	1852	C ASN	117	56.104	20.645	-19.497	1.00	79.23		C
ATOM	1853	O ASN	117	56.850	21.168	-18.673	1.00	79.23		O
ATOM	1854	CB ASN	117	55.791	22.393	-21.319	1.00	79.23		C
ATOM	1855	CG ASN	117	54.300	22.434	-21.659	1.00	79.23		C
ATOM	1856	OD1 ASN	117	53.930	22.018	-22.757	1.00	79.23		O
ATOM	1857	ND2 ASN	117	53.459	22.873	-20.735	1.00	79.23		N
ATOM	1858	H ASN	117	55.057	20.316	-22.516	1.00	0.00		H
ATOM	1859	HA ASN	117	57.404	21.003	-21.126	1.00	0.00		H
ATOM	1860	HB2 ASN	117	56.011	23.093	-20.511	1.00	0.00		H
ATOM	1861	HB3 ASN	117	56.327	22.776	-22.187	1.00	0.00		H
ATOM	1862	HD22 ASN	117	52.425	22.798	-20.873	1.00	0.00		H
ATOM	1863	HD21 ASN	117	53.761	23.155	-19.820	1.00	0.00		H
ATOM	1864	N VAL	118	55.140	19.780	-19.150	1.00	56.85		N
ATOM	1865	CA VAL	118	54.938	19.294	-17.782	1.00	56.85		C
ATOM	1866	C VAL	118	55.441	17.842	-17.654	1.00	56.85		C
ATOM	1867	O VAL	118	56.006	17.486	-16.619	1.00	56.85		O
ATOM	1868	CB VAL	118	53.449	19.473	-17.372	1.00	56.85		C
ATOM	1869	CG1 VAL	118	53.052	18.750	-16.068	1.00	56.85		C
ATOM	1870	CG2 VAL	118	53.124	20.971	-17.222	1.00	56.85		C
ATOM	1871	H VAL	118	54.509	19.438	-19.866	1.00	0.00		H
ATOM	1872	HA VAL	118	55.534	19.881	-17.085	1.00	0.00		H
ATOM	1873	HB VAL	118	52.818	19.075	-18.170	1.00	0.00		H
ATOM	1874	HG11 VAL	118	52.027	18.991	-15.783	1.00	0.00		H
ATOM	1875	HG12 VAL	118	53.105	17.666	-16.165	1.00	0.00		H
ATOM	1876	HG13 VAL	118	53.697	19.044	-15.239	1.00	0.00		H
ATOM	1877	HG21 VAL	118	52.071	21.125	-16.982	1.00	0.00		H
ATOM	1878	HG22 VAL	118	53.717	21.436	-16.435	1.00	0.00		H
ATOM	1879	HG23 VAL	118	53.313	21.516	-18.147	1.00	0.00		H
ATOM	1880	N PHE	119	55.308	17.006	-18.698	1.00	121.99		N
ATOM	1881	CA PHE	119	55.771	15.608	-18.696	1.00	121.99		C
ATOM	1882	C PHE	119	57.277	15.444	-18.404	1.00	121.99		C
ATOM	1883	O PHE	119	57.678	14.451	-17.793	1.00	121.99		O
ATOM	1884	CB PHE	119	55.415	14.904	-20.024	1.00	121.99		C
ATOM	1885	CG PHE	119	53.995	14.370	-20.123	1.00	121.99		C
ATOM	1886	CD1 PHE	119	53.589	13.301	-19.297	1.00	121.99		C
ATOM	1887	CD2 PHE	119	53.093	14.897	-21.069	1.00	121.99		C
ATOM	1888	CE1 PHE	119	52.292	12.768	-19.415	1.00	121.99		C
ATOM	1889	CE2 PHE	119	51.789	14.377	-21.178	1.00	121.99		C
ATOM	1890	CZ PHE	119	51.391	13.310	-20.351	1.00	121.99		C
ATOM	1891	H PHE	119	54.804	17.345	-19.509	1.00	0.00		H
ATOM	1892	HA PHE	119	55.256	15.099	-17.879	1.00	0.00		H
ATOM	1893	HB2 PHE	119	55.637	15.556	-20.868	1.00	0.00		H
ATOM	1894	HB3 PHE	119	56.058	14.033	-20.162	1.00	0.00		H
ATOM	1895	HD1 PHE	119	54.278	12.872	-18.582	1.00	0.00		H
ATOM	1896	HD2 PHE	119	53.400	15.693	-21.727	1.00	0.00		H

ATOM	1897	HE1 PHE	119	51.989	11.932	-18.800	1.00	0.00	H
ATOM	1898	HE2 PHE	119	51.104	14.788	-21.907	1.00	0.00	H
ATOM	1899	HZ PHE	119	50.404	12.884	-20.445	1.00	0.00	H
ATOM	1900	N LEU	120	58.106	16.423	-18.801	1.00	147.80	N
ATOM	1901	CA LEU	120	59.552	16.458	-18.561	1.00	147.80	C
ATOM	1902	C LEU	120	59.955	16.419	-17.073	1.00	147.80	C
ATOM	1903	O LEU	120	61.030	15.909	-16.739	1.00	147.80	O
ATOM	1904	CB LEU	120	60.199	17.647	-19.310	1.00	147.80	C
ATOM	1905	CG LEU	120	59.646	19.071	-19.038	1.00	147.80	C
ATOM	1906	CD1 LEU	120	60.278	19.746	-17.809	1.00	147.80	C
ATOM	1907	CD2 LEU	120	59.842	19.978	-20.263	1.00	147.80	C
ATOM	1908	H LEU	120	57.698	17.188	-19.326	1.00	0.00	H
ATOM	1909	HA LEU	120	59.961	15.547	-18.996	1.00	0.00	H
ATOM	1910	HB2 LEU	120	61.274	17.633	-19.123	1.00	0.00	H
ATOM	1911	HB3 LEU	120	60.097	17.428	-20.374	1.00	0.00	H
ATOM	1912	HG LEU	120	58.571	19.010	-18.867	1.00	0.00	H
ATOM	1913	HD11 LEU	120	59.898	20.762	-17.687	1.00	0.00	H
ATOM	1914	HD12 LEU	120	60.044	19.229	-16.884	1.00	0.00	H
ATOM	1915	HD13 LEU	120	61.362	19.805	-17.888	1.00	0.00	H
ATOM	1916	HD21 LEU	120	59.416	20.965	-20.080	1.00	0.00	H
ATOM	1917	HD22 LEU	120	60.893	20.132	-20.497	1.00	0.00	H
ATOM	1918	HD23 LEU	120	59.355	19.567	-21.148	1.00	0.00	H
ATOM	1919	N PHE	121	59.087	16.901	-16.167	1.00	87.64	N
ATOM	1920	CA PHE	121	59.366	16.982	-14.733	1.00	87.64	C
ATOM	1921	C PHE	121	59.396	15.602	-14.059	1.00	87.64	C
ATOM	1922	O PHE	121	60.013	15.493	-13.000	1.00	87.64	O
ATOM	1923	CB PHE	121	58.339	17.882	-14.013	1.00	87.64	C
ATOM	1924	CG PHE	121	58.450	19.357	-14.361	1.00	87.64	C
ATOM	1925	CD1 PHE	121	59.648	20.063	-14.117	1.00	87.64	C
ATOM	1926	CD2 PHE	121	57.350	20.033	-14.923	1.00	87.64	C
ATOM	1927	CE1 PHE	121	59.754	21.422	-14.469	1.00	87.64	C
ATOM	1928	CE2 PHE	121	57.456	21.391	-15.281	1.00	87.64	C
ATOM	1929	CZ PHE	121	58.660	22.085	-15.059	1.00	87.64	C
ATOM	1930	H PHE	121	58.206	17.285	-16.494	1.00	0.00	H
ATOM	1931	HA PHE	121	60.360	17.413	-14.605	1.00	0.00	H
ATOM	1932	HB2 PHE	121	57.325	17.527	-14.205	1.00	0.00	H
ATOM	1933	HB3 PHE	121	58.474	17.812	-12.932	1.00	0.00	H
ATOM	1934	HD1 PHE	121	60.490	19.572	-13.651	1.00	0.00	H
ATOM	1935	HD2 PHE	121	56.416	19.514	-15.077	1.00	0.00	H
ATOM	1936	HE1 PHE	121	60.673	21.957	-14.286	1.00	0.00	H
ATOM	1937	HE2 PHE	121	56.613	21.897	-15.729	1.00	0.00	H
ATOM	1938	HZ PHE	121	58.738	23.126	-15.333	1.00	0.00	H
ATOM	1939	N LYS	122	58.841	14.550	-14.698	1.00	262.09	N
ATOM	1940	CA LYS	122	58.917	13.140	-14.280	1.00	262.09	C
ATOM	1941	C LYS	122	60.359	12.735	-13.939	1.00	262.09	C
ATOM	1942	O LYS	122	60.612	12.173	-12.878	1.00	262.09	O
ATOM	1943	CB LYS	122	58.321	12.211	-15.374	1.00	262.09	C
ATOM	1944	CG LYS	122	58.292	10.699	-15.010	1.00	262.09	C
ATOM	1945	CD LYS	122	58.293	9.763	-16.235	1.00	262.09	C
ATOM	1946	CE LYS	122	58.616	8.294	-15.878	1.00	262.09	C
ATOM	1947	NZ LYS	122	58.943	7.489	-17.066	1.00	262.09	N1+
ATOM	1948	H LYS	122	58.394	14.749	-15.585	1.00	0.00	H
ATOM	1949	HA LYS	122	58.320	13.038	-13.372	1.00	0.00	H
ATOM	1950	HB2 LYS	122	57.310	12.536	-15.623	1.00	0.00	H
ATOM	1951	HB3 LYS	122	58.902	12.351	-16.287	1.00	0.00	H
ATOM	1952	HG2 LYS	122	59.168	10.439	-14.416	1.00	0.00	H

ATOM	1953	HG3	LYS	122	57.437	10.489	-14.367	1.00	0.00		H
ATOM	1954	HD2	LYS	122	57.337	9.830	-16.757	1.00	0.00		H
ATOM	1955	HD3	LYS	122	59.042	10.129	-16.935	1.00	0.00		H
ATOM	1956	HE2	LYS	122	59.474	8.238	-15.207	1.00	0.00		H
ATOM	1957	HE3	LYS	122	57.777	7.835	-15.354	1.00	0.00		H
ATOM	1958	HZ1	LYS	122	59.078	6.481	-16.821	1.00	0.00		H
ATOM	1959	HZ2	LYS	122	58.256	7.526	-17.798	1.00	0.00		H
ATOM	1960	HZ3	LYS	122	59.855	7.724	-17.436	1.00	0.00		H
ATOM	1961	N	LEU	123	61.294	13.059	-14.837	1.00	161.54		N
ATOM	1962	CA	LEU	123	62.716	12.850	-14.621	1.00	161.54		C
ATOM	1963	C	LEU	123	63.307	14.161	-14.062	1.00	161.54		C
ATOM	1964	O	LEU	123	63.988	14.148	-13.037	1.00	161.54		O
ATOM	1965	CB	LEU	123	63.373	12.491	-15.976	1.00	161.54		C
ATOM	1966	CG	LEU	123	64.544	11.487	-15.895	1.00	161.54		C
ATOM	1967	CD1	LEU	123	65.021	11.076	-17.298	1.00	161.54		C
ATOM	1968	CD2	LEU	123	65.723	12.003	-15.065	1.00	161.54		C
ATOM	1969	H	LEU	123	61.000	13.580	-15.650	1.00	0.00		H
ATOM	1970	HA	LEU	123	62.880	12.032	-13.920	1.00	0.00		H
ATOM	1971	HB2	LEU	123	62.616	12.038	-16.616	1.00	0.00		H
ATOM	1972	HB3	LEU	123	63.695	13.388	-16.498	1.00	0.00		H
ATOM	1973	HG	LEU	123	64.182	10.585	-15.404	1.00	0.00		H
ATOM	1974	HD11	LEU	123	65.778	10.292	-17.244	1.00	0.00		H
ATOM	1975	HD12	LEU	123	64.204	10.689	-17.904	1.00	0.00		H
ATOM	1976	HD13	LEU	123	65.457	11.914	-17.840	1.00	0.00		H
ATOM	1977	HD21	LEU	123	66.571	11.318	-15.114	1.00	0.00		H
ATOM	1978	HD22	LEU	123	66.057	12.978	-15.415	1.00	0.00		H
ATOM	1979	HD23	LEU	123	65.463	12.103	-14.013	1.00	0.00		H
ATOM	1980	N	GLY	124	63.014	15.316	-14.677	1.00	58.87		N
ATOM	1981	CA	GLY	124	63.851	16.509	-14.553	1.00	58.87		C
ATOM	1982	C	GLY	124	63.546	17.388	-13.340	1.00	58.87		C
ATOM	1983	O	GLY	124	64.343	18.269	-13.026	1.00	58.87		O
ATOM	1984	H	GLY	124	62.351	15.313	-15.448	1.00	0.00		H
ATOM	1985	HA2	GLY	124	64.907	16.234	-14.519	1.00	0.00		H
ATOM	1986	HA3	GLY	124	63.721	17.116	-15.450	1.00	0.00		H
ATOM	1987	N	GLY	125	62.482	17.092	-12.587	1.00	119.14		N
ATOM	1988	CA	GLY	125	62.117	17.846	-11.393	1.00	119.14		C
ATOM	1989	C	GLY	125	62.679	17.157	-10.148	1.00	119.14		C
ATOM	1990	O	GLY	125	63.291	17.807	-9.302	1.00	119.14		O
ATOM	1991	H	GLY	125	61.865	16.342	-12.881	1.00	0.00		H
ATOM	1992	HA2	GLY	125	62.454	18.882	-11.446	1.00	0.00		H
ATOM	1993	HA3	GLY	125	61.031	17.880	-11.323	1.00	0.00		H
ATOM	1994	N	VAL	126	62.591	15.819	-10.084	1.00	73.27		N
ATOM	1995	CA	VAL	126	63.158	14.989	-9.013	1.00	73.27		C
ATOM	1996	C	VAL	126	64.708	14.998	-9.064	1.00	73.27		C
ATOM	1997	O	VAL	126	65.371	14.778	-8.047	1.00	73.27		O
ATOM	1998	CB	VAL	126	62.624	13.533	-9.155	1.00	73.27		C
ATOM	1999	CG1	VAL	126	62.950	12.645	-7.937	1.00	73.27		C
ATOM	2000	CG2	VAL	126	61.114	13.458	-9.443	1.00	73.27		C
ATOM	2001	H	VAL	126	62.070	15.347	-10.810	1.00	0.00		H
ATOM	2002	HA	VAL	126	62.840	15.404	-8.054	1.00	0.00		H
ATOM	2003	HB	VAL	126	63.117	13.090	-10.015	1.00	0.00		H
ATOM	2004	HG11	VAL	126	62.562	11.635	-8.070	1.00	0.00		H
ATOM	2005	HG12	VAL	126	64.023	12.551	-7.782	1.00	0.00		H
ATOM	2006	HG13	VAL	126	62.512	13.049	-7.024	1.00	0.00		H
ATOM	2007	HG21	VAL	126	60.757	12.428	-9.446	1.00	0.00		H
ATOM	2008	HG22	VAL	126	60.538	14.003	-8.694	1.00	0.00		H

ATOM	2009	HG23 VAL	126	60.866	13.866	-10.423	1.00	0.00	H
ATOM	2010	N THR	127	65.287	15.289	-10.241	1.00	55.43	N
ATOM	2011	CA THR	127	66.726	15.407	-10.472	1.00	55.43	C
ATOM	2012	C THR	127	67.360	16.529	-9.621	1.00	55.43	C
ATOM	2013	O THR	127	68.503	16.376	-9.186	1.00	55.43	O
ATOM	2014	CB THR	127	66.985	15.646	-11.983	1.00	55.43	C
ATOM	2015	OG1 THR	127	66.583	14.513	-12.722	1.00	55.43	O
ATOM	2016	CG2 THR	127	68.465	15.807	-12.357	1.00	55.43	C
ATOM	2017	H THR	127	64.669	15.456	-11.022	1.00	0.00	H
ATOM	2018	HA THR	127	67.196	14.467	-10.176	1.00	0.00	H
ATOM	2019	HB THR	127	66.431	16.520	-12.334	1.00	0.00	H
ATOM	2020	HG1 THR	127	65.628	14.420	-12.716	1.00	0.00	H
ATOM	2021	HG21 THR	127	68.584	15.886	-13.435	1.00	0.00	H
ATOM	2022	HG22 THR	127	68.913	16.698	-11.917	1.00	0.00	H
ATOM	2023	HG23 THR	127	69.046	14.944	-12.034	1.00	0.00	H
ATOM	2024	N ALA	128	66.625	17.627	-9.364	1.00	40.32	N
ATOM	2025	CA ALA	128	67.081	18.816	-8.639	1.00	40.32	C
ATOM	2026	C ALA	128	67.622	18.467	-7.246	1.00	40.32	C
ATOM	2027	O ALA	128	68.804	18.673	-6.967	1.00	40.32	O
ATOM	2028	CB ALA	128	65.938	19.842	-8.555	1.00	40.32	C
ATOM	2029	H ALA	128	65.663	17.634	-9.683	1.00	0.00	H
ATOM	2030	HA ALA	128	67.900	19.258	-9.209	1.00	0.00	H
ATOM	2031	HB1 ALA	128	66.255	20.740	-8.024	1.00	0.00	H
ATOM	2032	HB2 ALA	128	65.606	20.148	-9.548	1.00	0.00	H
ATOM	2033	HB3 ALA	128	65.069	19.445	-8.027	1.00	0.00	H
ATOM	2034	N SER	129	66.776	17.853	-6.413	1.00	78.11	N
ATOM	2035	CA SER	129	67.105	17.430	-5.059	1.00	78.11	C
ATOM	2036	C SER	129	68.150	16.296	-5.064	1.00	78.11	C
ATOM	2037	O SER	129	69.075	16.314	-4.255	1.00	78.11	O
ATOM	2038	CB SER	129	65.813	16.928	-4.395	1.00	78.11	C
ATOM	2039	OG SER	129	64.752	17.857	-4.531	1.00	78.11	O
ATOM	2040	H SER	129	65.799	17.784	-6.661	1.00	0.00	H
ATOM	2041	HA SER	129	67.495	18.282	-4.499	1.00	0.00	H
ATOM	2042	HB2 SER	129	65.488	15.976	-4.816	1.00	0.00	H
ATOM	2043	HB3 SER	129	66.003	16.765	-3.332	1.00	0.00	H
ATOM	2044	HG SER	129	64.193	17.731	-3.762	1.00	0.00	H
ATOM	2045	N PHE	130	68.043	15.335	-5.999	1.00	117.54	N
ATOM	2046	CA PHE	130	68.917	14.162	-6.086	1.00	117.54	C
ATOM	2047	C PHE	130	70.380	14.541	-6.382	1.00	117.54	C
ATOM	2048	O PHE	130	71.274	14.156	-5.625	1.00	117.54	O
ATOM	2049	CB PHE	130	68.388	13.183	-7.156	1.00	117.54	C
ATOM	2050	CG PHE	130	69.272	11.963	-7.381	1.00	117.54	C
ATOM	2051	CD1 PHE	130	69.285	10.907	-6.446	1.00	117.54	C
ATOM	2052	CD2 PHE	130	70.126	11.908	-8.503	1.00	117.54	C
ATOM	2053	CE1 PHE	130	70.135	9.800	-6.639	1.00	117.54	C
ATOM	2054	CE2 PHE	130	70.978	10.806	-8.693	1.00	117.54	C
ATOM	2055	CZ PHE	130	70.982	9.750	-7.764	1.00	117.54	C
ATOM	2056	H PHE	130	67.275	15.409	-6.655	1.00	0.00	H
ATOM	2057	HA PHE	130	68.896	13.657	-5.118	1.00	0.00	H
ATOM	2058	HB2 PHE	130	67.394	12.838	-6.872	1.00	0.00	H
ATOM	2059	HB3 PHE	130	68.257	13.699	-8.108	1.00	0.00	H
ATOM	2060	HD1 PHE	130	68.639	10.936	-5.579	1.00	0.00	H
ATOM	2061	HD2 PHE	130	70.138	12.714	-9.222	1.00	0.00	H
ATOM	2062	HE1 PHE	130	70.134	8.990	-5.925	1.00	0.00	H
ATOM	2063	HE2 PHE	130	71.638	10.770	-9.548	1.00	0.00	H
ATOM	2064	HZ PHE	130	71.641	8.908	-7.922	1.00	0.00	H

ATOM	2065	N	THR	131	70.621	15.300	-7.462	1.00118.22	N
ATOM	2066	CA	THR	131	71.959	15.703	-7.909	1.00118.22	C
ATOM	2067	C	THR	131	72.672	16.578	-6.858	1.00118.22	C
ATOM	2068	O	THR	131	73.862	16.398	-6.581	1.00118.22	O
ATOM	2069	CB	THR	131	71.858	16.394	-9.291	1.00118.22	C
ATOM	2070	OG1	THR	131	70.977	17.504	-9.283	1.00118.22	O
ATOM	2071	CG2	THR	131	71.448	15.433	-10.416	1.00118.22	C
ATOM	2072	H	THR	131	69.828	15.634	-7.999	1.00 0.00	H
ATOM	2073	HA	THR	131	72.558	14.800	-8.035	1.00 0.00	H
ATOM	2074	HB	THR	131	72.842	16.787	-9.542	1.00 0.00	H
ATOM	2075	HG1	THR	131	70.075	17.193	-9.205	1.00 0.00	H
ATOM	2076	HG21	THR	131	71.378	15.955	-11.371	1.00 0.00	H
ATOM	2077	HG22	THR	131	72.188	14.643	-10.539	1.00 0.00	H
ATOM	2078	HG23	THR	131	70.489	14.957	-10.219	1.00 0.00	H
ATOM	2079	N	ALA	132	71.907	17.456	-6.198	1.00 37.37	N
ATOM	2080	CA	ALA	132	72.353	18.276	-5.087	1.00 37.37	C
ATOM	2081	C	ALA	132	72.677	17.428	-3.848	1.00 37.37	C
ATOM	2082	O	ALA	132	73.721	17.646	-3.232	1.00 37.37	O
ATOM	2083	CB	ALA	132	71.241	19.265	-4.754	1.00 37.37	C
ATOM	2084	H	ALA	132	70.948	17.565	-6.509	1.00 0.00	H
ATOM	2085	HA	ALA	132	73.247	18.825	-5.388	1.00 0.00	H
ATOM	2086	HB1	ALA	132	71.524	19.909	-3.925	1.00 0.00	H
ATOM	2087	HB2	ALA	132	71.026	19.903	-5.612	1.00 0.00	H
ATOM	2088	HB3	ALA	132	70.317	18.756	-4.476	1.00 0.00	H
ATOM	2089	N	SER	133	71.826	16.447	-3.508	1.00 86.32	N
ATOM	2090	CA	SER	133	72.002	15.510	-2.400	1.00 86.32	C
ATOM	2091	C	SER	133	73.288	14.683	-2.566	1.00 86.32	C
ATOM	2092	O	SER	133	74.174	14.780	-1.717	1.00 86.32	O
ATOM	2093	CB	SER	133	70.737	14.633	-2.213	1.00 86.32	C
ATOM	2094	OG	SER	133	70.789	13.856	-1.027	1.00 86.32	O
ATOM	2095	H	SER	133	70.960	16.366	-4.036	1.00 0.00	H
ATOM	2096	HA	SER	133	72.130	16.107	-1.497	1.00 0.00	H
ATOM	2097	HB2	SER	133	69.855	15.268	-2.133	1.00 0.00	H
ATOM	2098	HB3	SER	133	70.571	13.977	-3.067	1.00 0.00	H
ATOM	2099	HG	SER	133	69.916	13.856	-0.629	1.00 0.00	H
ATOM	2100	N	VAL	134	73.460	13.946	-3.677	1.00107.10	N
ATOM	2101	CA	VAL	134	74.629	13.085	-3.909	1.00107.10	C
ATOM	2102	C	VAL	134	75.952	13.891	-4.016	1.00107.10	C
ATOM	2103	O	VAL	134	77.010	13.404	-3.610	1.00107.10	O
ATOM	2104	CB	VAL	134	74.361	12.146	-5.120	1.00107.10	C
ATOM	2105	CG1	VAL	134	74.343	12.859	-6.479	1.00107.10	C
ATOM	2106	CG2	VAL	134	75.307	10.930	-5.156	1.00107.10	C
ATOM	2107	H	VAL	134	72.719	13.955	-4.378	1.00 0.00	H
ATOM	2108	HA	VAL	134	74.720	12.449	-3.028	1.00 0.00	H
ATOM	2109	HB	VAL	134	73.359	11.735	-4.979	1.00 0.00	H
ATOM	2110	HG11	VAL	134	73.977	12.195	-7.263	1.00 0.00	H
ATOM	2111	HG12	VAL	134	73.686	13.723	-6.454	1.00 0.00	H
ATOM	2112	HG13	VAL	134	75.331	13.205	-6.773	1.00 0.00	H
ATOM	2113	HG21	VAL	134	75.050	10.258	-5.975	1.00 0.00	H
ATOM	2114	HG22	VAL	134	76.347	11.227	-5.286	1.00 0.00	H
ATOM	2115	HG23	VAL	134	75.242	10.354	-4.233	1.00 0.00	H
ATOM	2116	N	GLY	135	75.888	15.166	-4.426	1.00 34.44	N
ATOM	2117	CA	GLY	135	77.049	16.046	-4.529	1.00 34.44	C
ATOM	2118	C	GLY	135	77.366	16.731	-3.190	1.00 34.44	C
ATOM	2119	O	GLY	135	78.534	16.955	-2.865	1.00 34.44	O
ATOM	2120	H	GLY	135	74.995	15.509	-4.768	1.00 0.00	H

ATOM	2121	HA2 GLY	135	77.922	15.497	-4.885	1.00	0.00	H
ATOM	2122	HA3 GLY	135	76.837	16.814	-5.273	1.00	0.00	H
ATOM	2123	N SER	136	76.352	16.969	-2.352	1.00	40.11	N
ATOM	2124	CA SER	136	76.512	17.438	-0.979	1.00	40.11	C
ATOM	2125	C SER	136	76.946	16.284	-0.056	1.00	40.11	C
ATOM	2126	O SER	136	77.730	16.498	0.869	1.00	40.11	O
ATOM	2127	CB SER	136	75.165	17.976	-0.481	1.00	40.11	C
ATOM	2128	OG SER	136	74.806	19.128	-1.220	1.00	40.11	O
ATOM	2129	H SER	136	75.404	16.799	-2.681	1.00	0.00	H
ATOM	2130	HA SER	136	77.261	18.230	-0.936	1.00	0.00	H
ATOM	2131	HB2 SER	136	74.387	17.217	-0.575	1.00	0.00	H
ATOM	2132	HB3 SER	136	75.221	18.246	0.572	1.00	0.00	H
ATOM	2133	HG SER	136	74.395	18.809	-2.029	1.00	0.00	H
ATOM	2134	N LEU	137	76.494	15.050	-0.316	1.00	61.57	N
ATOM	2135	CA LEU	137	76.939	13.842	0.373	1.00	61.57	C
ATOM	2136	C LEU	137	78.397	13.518	0.028	1.00	61.57	C
ATOM	2137	O LEU	137	79.136	13.099	0.914	1.00	61.57	O
ATOM	2138	CB LEU	137	76.035	12.644	0.023	1.00	61.57	C
ATOM	2139	CG LEU	137	74.657	12.681	0.718	1.00	61.57	C
ATOM	2140	CD1 LEU	137	73.652	11.744	0.034	1.00	61.57	C
ATOM	2141	CD2 LEU	137	74.758	12.338	2.211	1.00	61.57	C
ATOM	2142	H LEU	137	75.752	14.944	-1.013	1.00	0.00	H
ATOM	2143	HA LEU	137	76.896	14.031	1.444	1.00	0.00	H
ATOM	2144	HB2 LEU	137	75.910	12.599	-1.059	1.00	0.00	H
ATOM	2145	HB3 LEU	137	76.535	11.713	0.296	1.00	0.00	H
ATOM	2146	HG LEU	137	74.251	13.691	0.636	1.00	0.00	H
ATOM	2147	HD11 LEU	137	72.671	11.820	0.505	1.00	0.00	H
ATOM	2148	HD12 LEU	137	73.512	12.006	-1.015	1.00	0.00	H
ATOM	2149	HD13 LEU	137	73.965	10.701	0.081	1.00	0.00	H
ATOM	2150	HD21 LEU	137	73.779	12.428	2.674	1.00	0.00	H
ATOM	2151	HD22 LEU	137	75.114	11.320	2.369	1.00	0.00	H
ATOM	2152	HD23 LEU	137	75.420	13.013	2.750	1.00	0.00	H
ATOM	2153	N PHE	138	78.845	13.791	-1.206	1.00	58.76	N
ATOM	2154	CA PHE	138	80.258	13.774	-1.594	1.00	58.76	C
ATOM	2155	C PHE	138	81.080	14.762	-0.739	1.00	58.76	C
ATOM	2156	O PHE	138	82.069	14.349	-0.133	1.00	58.76	O
ATOM	2157	CB PHE	138	80.384	14.027	-3.112	1.00	58.76	C
ATOM	2158	CG PHE	138	81.789	14.152	-3.687	1.00	58.76	C
ATOM	2159	CD1 PHE	138	82.775	13.181	-3.408	1.00	58.76	C
ATOM	2160	CD2 PHE	138	82.099	15.230	-4.543	1.00	58.76	C
ATOM	2161	CE1 PHE	138	84.058	13.292	-3.979	1.00	58.76	C
ATOM	2162	CE2 PHE	138	83.380	15.335	-5.120	1.00	58.76	C
ATOM	2163	CZ PHE	138	84.361	14.367	-4.835	1.00	58.76	C
ATOM	2164	H PHE	138	78.161	14.043	-1.911	1.00	0.00	H
ATOM	2165	HA PHE	138	80.642	12.775	-1.385	1.00	0.00	H
ATOM	2166	HB2 PHE	138	79.891	13.211	-3.642	1.00	0.00	H
ATOM	2167	HB3 PHE	138	79.829	14.920	-3.382	1.00	0.00	H
ATOM	2168	HD1 PHE	138	82.551	12.340	-2.768	1.00	0.00	H
ATOM	2169	HD2 PHE	138	81.351	15.973	-4.776	1.00	0.00	H
ATOM	2170	HE1 PHE	138	84.807	12.541	-3.776	1.00	0.00	H
ATOM	2171	HE2 PHE	138	83.603	16.150	-5.794	1.00	0.00	H
ATOM	2172	HZ PHE	138	85.339	14.438	-5.288	1.00	0.00	H
ATOM	2173	N LEU	139	80.621	16.020	-0.595	1.00	115.26	N
ATOM	2174	CA LEU	139	81.193	17.041	0.296	1.00	115.26	C
ATOM	2175	C LEU	139	81.280	16.555	1.761	1.00	115.26	C
ATOM	2176	O LEU	139	82.342	16.638	2.382	1.00	115.26	O

ATOM	2177	CB	LEU	139	80.410	18.377	0.133	1.00115.26	C
ATOM	2178	CG	LEU	139	80.916	19.643	0.875	1.00115.26	C
ATOM	2179	CD1	LEU	139	80.515	19.700	2.357	1.00115.26	C
ATOM	2180	CD2	LEU	139	82.412	19.934	0.686	1.00115.26	C
ATOM	2181	H	LEU	139	79.805	16.275	-1.140	1.00 0.00	H
ATOM	2182	HA	LEU	139	82.210	17.214	-0.051	1.00 0.00	H
ATOM	2183	HB2	LEU	139	80.379	18.618	-0.931	1.00 0.00	H
ATOM	2184	HB3	LEU	139	79.368	18.234	0.403	1.00 0.00	H
ATOM	2185	HG	LEU	139	80.389	20.478	0.410	1.00 0.00	H
ATOM	2186	HD11	LEU	139	80.789	20.663	2.784	1.00 0.00	H
ATOM	2187	HD12	LEU	139	79.439	19.579	2.482	1.00 0.00	H
ATOM	2188	HD13	LEU	139	81.010	18.944	2.962	1.00 0.00	H
ATOM	2189	HD21	LEU	139	82.697	20.852	1.201	1.00 0.00	H
ATOM	2190	HD22	LEU	139	83.041	19.133	1.075	1.00 0.00	H
ATOM	2191	HD23	LEU	139	82.648	20.080	-0.366	1.00 0.00	H
ATOM	2192	N	THR	140	80.175	16.027	2.308	1.00107.67	N
ATOM	2193	CA	THR	140	80.080	15.544	3.690	1.00107.67	C
ATOM	2194	C	THR	140	80.961	14.284	3.914	1.00107.67	C
ATOM	2195	O	THR	140	81.575	14.125	4.971	1.00107.67	O
ATOM	2196	CB	THR	140	78.568	15.364	4.062	1.00107.67	C
ATOM	2197	OG1	THR	140	78.254	16.012	5.282	1.00107.67	O
ATOM	2198	CG2	THR	140	78.023	13.928	4.168	1.00107.67	C
ATOM	2199	H	THR	140	79.331	16.019	1.740	1.00 0.00	H
ATOM	2200	HA	THR	140	80.492	16.335	4.321	1.00 0.00	H
ATOM	2201	HB	THR	140	77.963	15.876	3.316	1.00 0.00	H
ATOM	2202	HG1	THR	140	77.315	16.155	5.285	1.00 0.00	H
ATOM	2203	HG21	THR	140	76.951	13.927	4.366	1.00 0.00	H
ATOM	2204	HG22	THR	140	78.181	13.364	3.252	1.00 0.00	H
ATOM	2205	HG23	THR	140	78.501	13.370	4.975	1.00 0.00	H
ATOM	2206	N	ALA	141	81.083	13.409	2.902	1.00 41.28	N
ATOM	2207	CA	ALA	141	81.898	12.198	2.939	1.00 41.28	C
ATOM	2208	C	ALA	141	83.394	12.536	2.945	1.00 41.28	C
ATOM	2209	O	ALA	141	84.124	11.993	3.779	1.00 41.28	O
ATOM	2210	CB	ALA	141	81.584	11.310	1.723	1.00 41.28	C
ATOM	2211	H	ALA	141	80.530	13.566	2.062	1.00 0.00	H
ATOM	2212	HA	ALA	141	81.663	11.645	3.850	1.00 0.00	H
ATOM	2213	HB1	ALA	141	82.200	10.410	1.724	1.00 0.00	H
ATOM	2214	HB2	ALA	141	80.543	10.985	1.732	1.00 0.00	H
ATOM	2215	HB3	ALA	141	81.761	11.828	0.780	1.00 0.00	H
ATOM	2216	N	ILE	142	83.854	13.445	2.066	1.00116.82	N
ATOM	2217	CA	ILE	142	85.254	13.877	2.050	1.00116.82	C
ATOM	2218	C	ILE	142	85.629	14.639	3.338	1.00116.82	C
ATOM	2219	O	ILE	142	86.730	14.420	3.835	1.00116.82	O
ATOM	2220	CB	ILE	142	85.651	14.641	0.755	1.00116.82	C
ATOM	2221	CG2	ILE	142	85.482	13.741	-0.487	1.00116.82	C
ATOM	2222	CG1	ILE	142	84.989	16.022	0.559	1.00116.82	C
ATOM	2223	CD1	ILE	142	85.657	16.886	-0.521	1.00116.82	C
ATOM	2224	H	ILE	142	83.210	13.858	1.395	1.00 0.00	H
ATOM	2225	HA	ILE	142	85.857	12.968	2.057	1.00 0.00	H
ATOM	2226	HB	ILE	142	86.722	14.828	0.849	1.00 0.00	H
ATOM	2227	HG21	ILE	142	85.914	14.193	-1.379	1.00 0.00	H
ATOM	2228	HG22	ILE	142	85.977	12.779	-0.348	1.00 0.00	H
ATOM	2229	HG23	ILE	142	84.434	13.538	-0.703	1.00 0.00	H
ATOM	2230	HG12	ILE	142	83.942	15.888	0.311	1.00 0.00	H
ATOM	2231	HG13	ILE	142	85.003	16.590	1.488	1.00 0.00	H
ATOM	2232	HD11	ILE	142	85.218	17.883	-0.539	1.00 0.00	H

ATOM	2233	HD12 ILE	142	86.725	16.999	-0.336	1.00	0.00	H
ATOM	2234	HD13 ILE	142	85.531	16.455	-1.514	1.00	0.00	H
ATOM	2235	N ASP	143	84.711	15.430	3.929	1.00	58.87	N
ATOM	2236	CA ASP	143	84.854	16.054	5.259	1.00	58.87	C
ATOM	2237	C ASP	143	85.267	15.024	6.326	1.00	58.87	C
ATOM	2238	O ASP	143	86.313	15.158	6.967	1.00	58.87	O
ATOM	2239	CB ASP	143	83.587	16.875	5.653	1.00	58.87	C
ATOM	2240	CG ASP	143	83.398	17.113	7.156	1.00	58.87	C
ATOM	2241	OD1 ASP	143	82.379	16.715	7.763	1.00	58.87	O
ATOM	2242	OD2 ASP	143	84.312	17.653	7.813	1.00	58.87	O1-
ATOM	2243	H ASP	143	83.836	15.574	3.434	1.00	0.00	H
ATOM	2244	HA ASP	143	85.681	16.761	5.200	1.00	0.00	H
ATOM	2245	HB2 ASP	143	83.608	17.838	5.145	1.00	0.00	H
ATOM	2246	HB3 ASP	143	82.691	16.374	5.295	1.00	0.00	H
ATOM	2247	N ARG	144	84.440	13.982	6.476	1.00	124.93	N
ATOM	2248	CA ARG	144	84.631	12.918	7.453	1.00	124.93	C
ATOM	2249	C ARG	144	85.872	12.072	7.143	1.00	124.93	C
ATOM	2250	O ARG	144	86.677	11.856	8.046	1.00	124.93	O
ATOM	2251	CB ARG	144	83.358	12.045	7.538	1.00	124.93	C
ATOM	2252	CG ARG	144	82.092	12.775	8.051	1.00	124.93	C
ATOM	2253	CD ARG	144	82.229	13.363	9.465	1.00	124.93	C
ATOM	2254	NE ARG	144	82.954	14.642	9.417	1.00	124.93	N
ATOM	2255	CZ ARG	144	84.048	14.954	10.117	1.00	124.93	C
ATOM	2256	NH1 ARG	144	84.487	14.209	11.125	1.00	124.93	N
ATOM	2257	NH2 ARG	144	84.745	16.035	9.808	1.00	124.93	N1+
ATOM	2258	H ARG	144	83.612	13.960	5.889	1.00	0.00	H
ATOM	2259	HA ARG	144	84.840	13.365	8.422	1.00	0.00	H
ATOM	2260	HB2 ARG	144	83.143	11.642	6.548	1.00	0.00	H
ATOM	2261	HB3 ARG	144	83.553	11.183	8.179	1.00	0.00	H
ATOM	2262	HG2 ARG	144	81.811	13.570	7.363	1.00	0.00	H
ATOM	2263	HG3 ARG	144	81.255	12.077	8.036	1.00	0.00	H
ATOM	2264	HD2 ARG	144	81.250	13.537	9.908	1.00	0.00	H
ATOM	2265	HD3 ARG	144	82.724	12.643	10.116	1.00	0.00	H
ATOM	2266	HE ARG	144	82.617	15.342	8.721	1.00	0.00	H
ATOM	2267	HH12 ARG	144	85.170	14.695	11.735	1.00	0.00	H
ATOM	2268	HH11 ARG	144	83.827	13.624	11.633	1.00	0.00	H
ATOM	2269	HH22 ARG	144	85.525	16.318	10.392	1.00	0.00	H
ATOM	2270	HH21 ARG	144	84.540	16.626	8.971	1.00	0.00	H
ATOM	2271	N TYR	145	86.067	11.659	5.883	1.00	64.41	N
ATOM	2272	CA TYR	145	87.221	10.876	5.432	1.00	64.41	C
ATOM	2273	C TYR	145	88.552	11.614	5.676	1.00	64.41	C
ATOM	2274	O TYR	145	89.438	11.069	6.340	1.00	64.41	O
ATOM	2275	CB TYR	145	87.048	10.500	3.944	1.00	64.41	C
ATOM	2276	CG TYR	145	88.206	9.719	3.343	1.00	64.41	C
ATOM	2277	CD1 TYR	145	88.357	8.342	3.614	1.00	64.41	C
ATOM	2278	CD2 TYR	145	89.160	10.378	2.537	1.00	64.41	C
ATOM	2279	CE1 TYR	145	89.457	7.634	3.091	1.00	64.41	C
ATOM	2280	CE2 TYR	145	90.262	9.671	2.022	1.00	64.41	C
ATOM	2281	CZ TYR	145	90.411	8.300	2.297	1.00	64.41	C
ATOM	2282	OH TYR	145	91.484	7.630	1.791	1.00	64.41	O
ATOM	2283	H TYR	145	85.367	11.908	5.186	1.00	0.00	H
ATOM	2284	HA TYR	145	87.246	9.954	6.016	1.00	0.00	H
ATOM	2285	HB2 TYR	145	86.140	9.909	3.818	1.00	0.00	H
ATOM	2286	HB3 TYR	145	86.898	11.403	3.352	1.00	0.00	H
ATOM	2287	HD1 TYR	145	87.634	7.827	4.229	1.00	0.00	H
ATOM	2288	HD2 TYR	145	89.063	11.431	2.320	1.00	0.00	H

ATOM	2289	HE1 TYR	145	89.571	6.581	3.302	1.00	0.00	H
ATOM	2290	HE2 TYR	145	90.994	10.178	1.411	1.00	0.00	H
ATOM	2291	HH TYR	145	91.437	6.689	1.888	1.00	0.00	H
ATOM	2292	N ILE	146	88.672	12.862	5.190	1.00	65.60	N
ATOM	2293	CA ILE	146	89.879	13.680	5.310	1.00	65.60	C
ATOM	2294	C ILE	146	90.154	14.027	6.784	1.00	65.60	C
ATOM	2295	O ILE	146	91.314	14.060	7.194	1.00	65.60	O
ATOM	2296	CB ILE	146	89.787	14.951	4.413	1.00	65.60	C
ATOM	2297	CG2 ILE	146	90.940	15.947	4.658	1.00	65.60	C
ATOM	2298	CG1 ILE	146	89.737	14.571	2.911	1.00	65.60	C
ATOM	2299	CD1 ILE	146	89.326	15.723	1.980	1.00	65.60	C
ATOM	2300	H ILE	146	87.884	13.286	4.704	1.00	0.00	H
ATOM	2301	HA ILE	146	90.712	13.080	4.951	1.00	0.00	H
ATOM	2302	HB ILE	146	88.864	15.472	4.670	1.00	0.00	H
ATOM	2303	HG21 ILE	146	90.902	16.785	3.966	1.00	0.00	H
ATOM	2304	HG22 ILE	146	90.913	16.379	5.658	1.00	0.00	H
ATOM	2305	HG23 ILE	146	91.909	15.463	4.534	1.00	0.00	H
ATOM	2306	HG12 ILE	146	90.705	14.180	2.596	1.00	0.00	H
ATOM	2307	HG13 ILE	146	89.027	13.761	2.754	1.00	0.00	H
ATOM	2308	HD11 ILE	146	89.186	15.361	0.961	1.00	0.00	H
ATOM	2309	HD12 ILE	146	88.388	16.176	2.302	1.00	0.00	H
ATOM	2310	HD13 ILE	146	90.083	16.506	1.935	1.00	0.00	H
ATOM	2311	N SER	147	89.115	14.244	7.600	1.00	74.64	N
ATOM	2312	CA SER	147	89.284	14.477	9.028	1.00	74.64	C
ATOM	2313	C SER	147	89.790	13.212	9.744	1.00	74.64	C
ATOM	2314	O SER	147	90.841	13.275	10.380	1.00	74.64	O
ATOM	2315	CB SER	147	87.963	14.957	9.654	1.00	74.64	C
ATOM	2316	OG SER	147	87.651	16.261	9.180	1.00	74.64	O
ATOM	2317	H SER	147	88.177	14.225	7.216	1.00	0.00	H
ATOM	2318	HA SER	147	90.034	15.258	9.174	1.00	0.00	H
ATOM	2319	HB2 SER	147	87.141	14.271	9.437	1.00	0.00	H
ATOM	2320	HB3 SER	147	88.058	14.995	10.741	1.00	0.00	H
ATOM	2321	HG SER	147	87.290	16.148	8.296	1.00	0.00	H
ATOM	2322	N ILE	148	89.083	12.078	9.625	1.00	123.69	N
ATOM	2323	CA ILE	148	89.260	10.946	10.534	1.00	123.69	C
ATOM	2324	C ILE	148	90.370	9.976	10.079	1.00	123.69	C
ATOM	2325	O ILE	148	90.998	9.358	10.933	1.00	123.69	O
ATOM	2326	CB ILE	148	87.881	10.225	10.689	1.00	123.69	C
ATOM	2327	CG2 ILE	148	87.532	9.223	9.561	1.00	123.69	C
ATOM	2328	CG1 ILE	148	87.759	9.577	12.087	1.00	123.69	C
ATOM	2329	CD1 ILE	148	86.349	9.074	12.432	1.00	123.69	C
ATOM	2330	H ILE	148	88.275	12.051	9.006	1.00	0.00	H
ATOM	2331	HA ILE	148	89.560	11.340	11.509	1.00	0.00	H
ATOM	2332	HB ILE	148	87.115	11.001	10.663	1.00	0.00	H
ATOM	2333	HG21 ILE	148	86.480	8.941	9.589	1.00	0.00	H
ATOM	2334	HG22 ILE	148	87.725	9.638	8.573	1.00	0.00	H
ATOM	2335	HG23 ILE	148	88.116	8.306	9.637	1.00	0.00	H
ATOM	2336	HG12 ILE	148	88.483	8.769	12.195	1.00	0.00	H
ATOM	2337	HG13 ILE	148	88.036	10.309	12.847	1.00	0.00	H
ATOM	2338	HD11 ILE	148	86.333	8.695	13.454	1.00	0.00	H
ATOM	2339	HD12 ILE	148	85.611	9.873	12.365	1.00	0.00	H
ATOM	2340	HD13 ILE	148	86.030	8.259	11.784	1.00	0.00	H
ATOM	2341	N HIS	149	90.625	9.820	8.768	1.00	127.50	N
ATOM	2342	CA HIS	149	91.606	8.841	8.269	1.00	127.50	C
ATOM	2343	C HIS	149	92.981	9.496	8.017	1.00	127.50	C
ATOM	2344	O HIS	149	93.975	8.799	7.824	1.00	127.50	O

ATOM	2345	ND1 HIS	149	92.916	6.459	6.650	1.00127.50	N
ATOM	2346	CG HIS	149	91.573	6.778	6.748	1.00127.50	C
ATOM	2347	CB HIS	149	91.074	8.191	6.970	1.00127.50	C
ATOM	2348	NE2 HIS	149	91.833	4.535	6.490	1.00127.50	N
ATOM	2349	CD2 HIS	149	90.910	5.575	6.645	1.00127.50	C
ATOM	2350	CE1 HIS	149	93.017	5.140	6.483	1.00127.50	C
ATOM	2351	H HIS	149	90.090	10.353	8.089	1.00 0.00	H
ATOM	2352	HA HIS	149	91.749	8.047	9.005	1.00 0.00	H
ATOM	2353	HD1 HIS	149	93.691	7.114	6.773	1.00 0.00	H
ATOM	2354	HB2 HIS	149	89.986	8.132	7.005	1.00 0.00	H
ATOM	2355	HB3 HIS	149	91.310	8.799	6.095	1.00 0.00	H
ATOM	2356	HD2 HIS	149	89.849	5.377	6.694	1.00 0.00	H
ATOM	2357	HE1 HIS	149	93.960	4.618	6.386	1.00 0.00	H
ATOM	2358	N ARG	150	93.039	10.831	8.016	1.00148.58	N
ATOM	2359	CA ARG	150	94.235	11.663	8.164	1.00148.58	C
ATOM	2360	C ARG	150	95.146	11.942	6.940	1.00148.58	C
ATOM	2361	O ARG	150	96.361	11.999	7.115	1.00148.58	O
ATOM	2362	CB ARG	150	94.969	11.448	9.522	1.00148.58	C
ATOM	2363	CG ARG	150	94.141	11.799	10.784	1.00148.58	C
ATOM	2364	CD ARG	150	94.141	13.300	11.157	1.00148.58	C
ATOM	2365	NE ARG	150	93.505	14.103	10.096	1.00148.58	N
ATOM	2366	CZ ARG	150	94.175	14.788	9.153	1.00148.58	C
ATOM	2367	NH1 ARG	150	95.467	15.046	9.280	1.00148.58	N
ATOM	2368	NH2 ARG	150	93.574	15.170	8.029	1.00148.58	N1+
ATOM	2369	H ARG	150	92.156	11.300	8.149	1.00 0.00	H
ATOM	2370	HA ARG	150	93.767	12.631	8.218	1.00 0.00	H
ATOM	2371	HB2 ARG	150	95.294	10.409	9.583	1.00 0.00	H
ATOM	2372	HB3 ARG	150	95.891	12.030	9.558	1.00 0.00	H
ATOM	2373	HG2 ARG	150	93.121	11.424	10.698	1.00 0.00	H
ATOM	2374	HG3 ARG	150	94.572	11.258	11.628	1.00 0.00	H
ATOM	2375	HD2 ARG	150	93.574	13.445	12.077	1.00 0.00	H
ATOM	2376	HD3 ARG	150	95.153	13.638	11.376	1.00 0.00	H
ATOM	2377	HE ARG	150	92.490	13.975	10.072	1.00 0.00	H
ATOM	2378	HH12 ARG	150	96.091	15.515	8.630	1.00 0.00	H
ATOM	2379	HH11 ARG	150	95.980	15.056	10.202	1.00 0.00	H
ATOM	2380	HH22 ARG	150	94.165	15.437	7.235	1.00 0.00	H
ATOM	2381	HH21 ARG	150	92.634	14.837	7.786	1.00 0.00	H
ATOM	2382	N PRO	151	94.625	12.220	5.719	1.00 92.41	N
ATOM	2383	CA PRO	151	95.340	13.004	4.690	1.00 92.41	C
ATOM	2384	C PRO	151	95.944	14.330	5.221	1.00 92.41	C
ATOM	2385	O PRO	151	95.248	15.138	5.850	1.00 92.41	O
ATOM	2386	CD PRO	151	93.336	11.753	5.210	1.00 92.41	C
ATOM	2387	CB PRO	151	94.287	13.277	3.607	1.00 92.41	C
ATOM	2388	CG PRO	151	93.291	12.140	3.732	1.00 92.41	C
ATOM	2389	HA PRO	151	96.129	12.366	4.288	1.00 0.00	H
ATOM	2390	HD3 PRO	151	93.227	10.673	5.321	1.00 0.00	H
ATOM	2391	HD2 PRO	151	92.542	12.238	5.769	1.00 0.00	H
ATOM	2392	HB2 PRO	151	93.768	14.214	3.807	1.00 0.00	H
ATOM	2393	HB3 PRO	151	94.721	13.348	2.610	1.00 0.00	H
ATOM	2394	HG3 PRO	151	93.633	11.296	3.129	1.00 0.00	H
ATOM	2395	HG2 PRO	151	92.293	12.402	3.382	1.00 0.00	H
ATOM	2396	N LEU	152	97.244	14.523	4.986	1.00 87.02	N
ATOM	2397	CA LEU	152	98.085	15.581	5.546	1.00 87.02	C
ATOM	2398	C LEU	152	98.230	16.754	4.557	1.00 87.02	C
ATOM	2399	O LEU	152	98.013	16.599	3.350	1.00 87.02	O
ATOM	2400	CB LEU	152	99.516	14.999	5.722	1.00 87.02	C

ATOM	2401	CG	LEU	152	99.627	13.654	6.479	1.00	87.02	C
ATOM	2402	CD1	LEU	152	101.083	13.167	6.504	1.00	87.02	C
ATOM	2403	CD2	LEU	152	99.075	13.737	7.907	1.00	87.02	C
ATOM	2404	H	LEU	152	97.733	13.818	4.458	1.00	0.00	H
ATOM	2405	HA	LEU	152	97.692	15.932	6.503	1.00	0.00	H
ATOM	2406	HB2	LEU	152	99.976	14.865	4.740	1.00	0.00	H
ATOM	2407	HB3	LEU	152	100.139	15.735	6.232	1.00	0.00	H
ATOM	2408	HG	LEU	152	99.050	12.894	5.952	1.00	0.00	H
ATOM	2409	HD11	LEU	152	101.166	12.200	7.002	1.00	0.00	H
ATOM	2410	HD12	LEU	152	101.483	13.048	5.497	1.00	0.00	H
ATOM	2411	HD13	LEU	152	101.728	13.866	7.039	1.00	0.00	H
ATOM	2412	HD21	LEU	152	99.164	12.780	8.421	1.00	0.00	H
ATOM	2413	HD22	LEU	152	99.610	14.481	8.495	1.00	0.00	H
ATOM	2414	HD23	LEU	152	98.019	14.005	7.922	1.00	0.00	H
ATOM	2415	N	ALA	153	98.691	17.911	5.053	1.00	45.63	N
ATOM	2416	CA	ALA	153	99.404	18.952	4.314	1.00	45.63	C
ATOM	2417	C	ALA	153	98.517	19.704	3.315	1.00	45.63	C
ATOM	2418	O	ALA	153	97.754	20.594	3.696	1.00	45.63	O
ATOM	2419	CB	ALA	153	100.732	18.424	3.727	1.00	45.63	C
ATOM	2420	H	ALA	153	98.747	18.022	6.062	1.00	0.00	H
ATOM	2421	HA	ALA	153	99.682	19.697	5.057	1.00	0.00	H
ATOM	2422	HB1	ALA	153	101.271	19.213	3.200	1.00	0.00	H
ATOM	2423	HB2	ALA	153	101.389	18.071	4.523	1.00	0.00	H
ATOM	2424	HB3	ALA	153	100.585	17.597	3.033	1.00	0.00	H
ATOM	2425	N	TYR	154	98.619	19.334	2.035	1.00	106.81	N
ATOM	2426	CA	TYR	154	97.915	19.933	0.903	1.00	106.81	C
ATOM	2427	C	TYR	154	96.619	19.169	0.565	1.00	106.81	C
ATOM	2428	O	TYR	154	95.922	19.545	-0.372	1.00	106.81	O
ATOM	2429	CB	TYR	154	98.868	19.940	-0.319	1.00	106.81	C
ATOM	2430	CG	TYR	154	99.276	18.591	-0.904	1.00	106.81	C
ATOM	2431	CD1	TYR	154	98.677	18.140	-2.099	1.00	106.81	C
ATOM	2432	CD2	TYR	154	100.275	17.804	-0.291	1.00	106.81	C
ATOM	2433	CE1	TYR	154	99.061	16.912	-2.668	1.00	106.81	C
ATOM	2434	CE2	TYR	154	100.644	16.563	-0.848	1.00	106.81	C
ATOM	2435	CZ	TYR	154	100.030	16.112	-2.034	1.00	106.81	C
ATOM	2436	OH	TYR	154	100.369	14.901	-2.569	1.00	106.81	O
ATOM	2437	H	TYR	154	99.208	18.540	1.834	1.00	0.00	H
ATOM	2438	HA	TYR	154	97.643	20.964	1.137	1.00	0.00	H
ATOM	2439	HB2	TYR	154	98.406	20.529	-1.114	1.00	0.00	H
ATOM	2440	HB3	TYR	154	99.776	20.488	-0.066	1.00	0.00	H
ATOM	2441	HD1	TYR	154	97.929	18.745	-2.594	1.00	0.00	H
ATOM	2442	HD2	TYR	154	100.777	18.151	0.599	1.00	0.00	H
ATOM	2443	HE1	TYR	154	98.618	16.608	-3.604	1.00	0.00	H
ATOM	2444	HE2	TYR	154	101.406	15.972	-0.360	1.00	0.00	H
ATOM	2445	HH	TYR	154	101.318	14.792	-2.546	1.00	0.00	H
ATOM	2446	N	LYS	155	96.285	18.114	1.321	1.00	99.59	N
ATOM	2447	CA	LYS	155	95.109	17.260	1.136	1.00	99.59	C
ATOM	2448	C	LYS	155	94.172	17.332	2.356	1.00	99.59	C
ATOM	2449	O	LYS	155	93.418	16.402	2.625	1.00	99.59	O
ATOM	2450	CB	LYS	155	95.579	15.830	0.767	1.00	99.59	C
ATOM	2451	CG	LYS	155	95.920	15.685	-0.730	1.00	99.59	C
ATOM	2452	CD	LYS	155	96.818	14.478	-1.049	1.00	99.59	C
ATOM	2453	CE	LYS	155	96.899	14.191	-2.562	1.00	99.59	C
ATOM	2454	NZ	LYS	155	98.096	13.404	-2.918	1.00	99.59	N1+
ATOM	2455	H	LYS	155	96.918	17.849	2.068	1.00	0.00	H
ATOM	2456	HA	LYS	155	94.494	17.632	0.314	1.00	0.00	H

ATOM	2457	HB2 LYS	155	96.433	15.557	1.388	1.00	0.00	H
ATOM	2458	HB3 LYS	155	94.803	15.099	0.998	1.00	0.00	H
ATOM	2459	HG2 LYS	155	94.987	15.626	-1.293	1.00	0.00	H
ATOM	2460	HG3 LYS	155	96.420	16.590	-1.079	1.00	0.00	H
ATOM	2461	HD2 LYS	155	97.810	14.683	-0.643	1.00	0.00	H
ATOM	2462	HD3 LYS	155	96.449	13.592	-0.529	1.00	0.00	H
ATOM	2463	HE2 LYS	155	96.002	13.662	-2.890	1.00	0.00	H
ATOM	2464	HE3 LYS	155	96.924	15.124	-3.126	1.00	0.00	H
ATOM	2465	HZ1 LYS	155	98.089	13.193	-3.906	1.00	0.00	H
ATOM	2466	HZ2 LYS	155	98.936	13.961	-2.732	1.00	0.00	H
ATOM	2467	HZ3 LYS	155	98.142	12.544	-2.394	1.00	0.00	H
ATOM	2468	N ARG	156	94.204	18.457	3.082	1.00	162.83	N
ATOM	2469	CA ARG	156	93.270	18.807	4.153	1.00	162.83	C
ATOM	2470	C ARG	156	92.013	19.479	3.550	1.00	162.83	C
ATOM	2471	O ARG	156	91.939	19.707	2.343	1.00	162.83	O
ATOM	2472	CB ARG	156	93.964	19.821	5.088	1.00	162.83	C
ATOM	2473	CG ARG	156	95.235	19.276	5.776	1.00	162.83	C
ATOM	2474	CD ARG	156	95.926	20.332	6.652	1.00	162.83	C
ATOM	2475	NE ARG	156	96.289	21.500	5.836	1.00	162.83	N
ATOM	2476	CZ ARG	156	95.724	22.715	5.856	1.00	162.83	C
ATOM	2477	NH1 ARG	156	94.788	23.024	6.746	1.00	162.83	N
ATOM	2478	NH2 ARG	156	96.073	23.626	4.952	1.00	162.83	N1+
ATOM	2479	H ARG	156	94.777	19.198	2.708	1.00	0.00	H
ATOM	2480	HA ARG	156	92.981	17.916	4.712	1.00	0.00	H
ATOM	2481	HB2 ARG	156	94.204	20.718	4.514	1.00	0.00	H
ATOM	2482	HB3 ARG	156	93.272	20.148	5.865	1.00	0.00	H
ATOM	2483	HG2 ARG	156	94.983	18.408	6.387	1.00	0.00	H
ATOM	2484	HG3 ARG	156	95.944	18.914	5.032	1.00	0.00	H
ATOM	2485	HD2 ARG	156	95.293	20.610	7.494	1.00	0.00	H
ATOM	2486	HD3 ARG	156	96.830	19.911	7.087	1.00	0.00	H
ATOM	2487	HE ARG	156	96.996	21.281	5.123	1.00	0.00	H
ATOM	2488	HH12 ARG	156	94.372	24.002	6.702	1.00	0.00	H
ATOM	2489	HH11 ARG	156	94.565	22.466	7.547	1.00	0.00	H
ATOM	2490	HH22 ARG	156	95.567	24.536	4.905	1.00	0.00	H
ATOM	2491	HH21 ARG	156	96.854	23.499	4.329	1.00	0.00	H
ATOM	2492	N ILE	157	91.024	19.806	4.391	1.00	124.58	N
ATOM	2493	CA ILE	157	89.753	20.423	4.016	1.00	124.58	C
ATOM	2494	C ILE	157	89.373	21.462	5.085	1.00	124.58	C
ATOM	2495	O ILE	157	89.676	21.256	6.263	1.00	124.58	O
ATOM	2496	CB ILE	157	88.689	19.319	3.740	1.00	124.58	C
ATOM	2497	CG2 ILE	157	88.353	18.481	4.994	1.00	124.58	C
ATOM	2498	CG1 ILE	157	87.407	19.888	3.095	1.00	124.58	C
ATOM	2499	CD1 ILE	157	86.455	18.816	2.548	1.00	124.58	C
ATOM	2500	H ILE	157	91.154	19.694	5.385	1.00	0.00	H
ATOM	2501	HA ILE	157	89.914	20.977	3.089	1.00	0.00	H
ATOM	2502	HB ILE	157	89.134	18.643	3.009	1.00	0.00	H
ATOM	2503	HG21 ILE	157	87.791	17.587	4.729	1.00	0.00	H
ATOM	2504	HG22 ILE	157	89.250	18.145	5.510	1.00	0.00	H
ATOM	2505	HG23 ILE	157	87.757	19.048	5.710	1.00	0.00	H
ATOM	2506	HG12 ILE	157	86.868	20.519	3.804	1.00	0.00	H
ATOM	2507	HG13 ILE	157	87.693	20.536	2.267	1.00	0.00	H
ATOM	2508	HD11 ILE	157	85.608	19.267	2.033	1.00	0.00	H
ATOM	2509	HD12 ILE	157	86.965	18.165	1.838	1.00	0.00	H
ATOM	2510	HD13 ILE	157	86.046	18.192	3.341	1.00	0.00	H
ATOM	2511	N VAL	158	88.706	22.552	4.680	1.00	79.67	N
ATOM	2512	CA VAL	158	88.209	23.619	5.552	1.00	79.67	C

ATOM	2513	C	VAL	158	86.704	23.812	5.273	1.00	79.67	C
ATOM	2514	O	VAL	158	85.885	23.101	5.846	1.00	79.67	O
ATOM	2515	CB	VAL	158	89.103	24.896	5.477	1.00	79.67	C
ATOM	2516	CG1	VAL	158	88.713	25.966	6.516	1.00	79.67	C
ATOM	2517	CG2	VAL	158	90.607	24.591	5.619	1.00	79.67	C
ATOM	2518	H	VAL	158	88.535	22.645	3.683	1.00	0.00	H
ATOM	2519	HA	VAL	158	88.264	23.266	6.583	1.00	0.00	H
ATOM	2520	HB	VAL	158	88.966	25.343	4.496	1.00	0.00	H
ATOM	2521	HG11	VAL	158	89.299	26.876	6.385	1.00	0.00	H
ATOM	2522	HG12	VAL	158	87.663	26.250	6.450	1.00	0.00	H
ATOM	2523	HG13	VAL	158	88.896	25.615	7.532	1.00	0.00	H
ATOM	2524	HG21	VAL	158	91.198	25.507	5.619	1.00	0.00	H
ATOM	2525	HG22	VAL	158	90.823	24.070	6.553	1.00	0.00	H
ATOM	2526	HG23	VAL	158	90.983	23.975	4.803	1.00	0.00	H
ATOM	2527	N	THR	159	86.337	24.732	4.377	1.00	139.97	N
ATOM	2528	CA	THR	159	85.002	24.962	3.820	1.00	139.97	C
ATOM	2529	C	THR	159	85.198	25.493	2.383	1.00	139.97	C
ATOM	2530	O	THR	159	86.343	25.735	1.999	1.00	139.97	O
ATOM	2531	CB	THR	159	84.098	25.784	4.786	1.00	139.97	C
ATOM	2532	OG1	THR	159	82.779	25.909	4.273	1.00	139.97	O
ATOM	2533	CG2	THR	159	84.616	27.202	5.073	1.00	139.97	C
ATOM	2534	H	THR	159	87.062	25.245	3.895	1.00	0.00	H
ATOM	2535	HA	THR	159	84.538	23.980	3.704	1.00	0.00	H
ATOM	2536	HB	THR	159	84.022	25.241	5.729	1.00	0.00	H
ATOM	2537	HG1	THR	159	82.234	26.295	4.961	1.00	0.00	H
ATOM	2538	HG21	THR	159	83.961	27.728	5.767	1.00	0.00	H
ATOM	2539	HG22	THR	159	85.606	27.176	5.528	1.00	0.00	H
ATOM	2540	HG23	THR	159	84.684	27.801	4.165	1.00	0.00	H
ATOM	2541	N	ARG	160	84.119	25.643	1.594	1.00	199.90	N
ATOM	2542	CA	ARG	160	84.064	25.782	0.119	1.00	199.90	C
ATOM	2543	C	ARG	160	85.351	26.132	-0.680	1.00	199.90	C
ATOM	2544	O	ARG	160	85.865	25.248	-1.368	1.00	199.90	O
ATOM	2545	CB	ARG	160	82.736	26.346	-0.455	1.00	199.90	C
ATOM	2546	CG	ARG	160	81.763	27.054	0.510	1.00	199.90	C
ATOM	2547	CD	ARG	160	80.524	27.625	-0.215	1.00	199.90	C
ATOM	2548	NE	ARG	160	79.747	26.587	-0.918	1.00	199.90	N
ATOM	2549	CZ	ARG	160	78.751	26.759	-1.799	1.00	199.90	C
ATOM	2550	NH1	ARG	160	78.284	27.974	-2.097	1.00	199.90	N
ATOM	2551	NH2	ARG	160	78.233	25.686	-2.387	1.00	199.90	N1+
ATOM	2552	H	ARG	160	83.242	25.524	2.089	1.00	0.00	H
ATOM	2553	HA	ARG	160	83.966	24.725	-0.134	1.00	0.00	H
ATOM	2554	HB2	ARG	160	82.960	27.022	-1.282	1.00	0.00	H
ATOM	2555	HB3	ARG	160	82.205	25.520	-0.927	1.00	0.00	H
ATOM	2556	HG2	ARG	160	81.446	26.382	1.308	1.00	0.00	H
ATOM	2557	HG3	ARG	160	82.285	27.872	1.008	1.00	0.00	H
ATOM	2558	HD2	ARG	160	79.872	28.129	0.500	1.00	0.00	H
ATOM	2559	HD3	ARG	160	80.842	28.375	-0.941	1.00	0.00	H
ATOM	2560	HE	ARG	160	80.012	25.618	-0.725	1.00	0.00	H
ATOM	2561	HH12	ARG	160	77.504	28.102	-2.730	1.00	0.00	H
ATOM	2562	HH11	ARG	160	78.670	28.805	-1.676	1.00	0.00	H
ATOM	2563	HH22	ARG	160	77.518	25.691	-3.111	1.00	0.00	H
ATOM	2564	HH21	ARG	160	78.583	24.754	-2.175	1.00	0.00	H
ATOM	2565	N	PRO	161	85.920	27.357	-0.558	1.00	144.87	N
ATOM	2566	CA	PRO	161	87.228	27.751	-1.136	1.00	144.87	C
ATOM	2567	C	PRO	161	88.429	26.812	-0.866	1.00	144.87	C
ATOM	2568	O	PRO	161	89.403	26.825	-1.611	1.00	144.87	O

ATOM	2569	CD PRO	161	85.287	28.493	0.118	1.00144.87	C
ATOM	2570	CB PRO	161	87.525	29.134	-0.534	1.00144.87	C
ATOM	2571	CG PRO	161	86.169	29.709	-0.166	1.00144.87	C
ATOM	2572	HA PRO	161	87.096	27.839	-2.216	1.00 0.00	H
ATOM	2573	HD3 PRO	161	84.272	28.673	-0.236	1.00 0.00	H
ATOM	2574	HD2 PRO	161	85.246	28.300	1.191	1.00 0.00	H
ATOM	2575	HB2 PRO	161	88.128	29.046	0.371	1.00 0.00	H
ATOM	2576	HB3 PRO	161	88.074	29.774	-1.227	1.00 0.00	H
ATOM	2577	HG3 PRO	161	85.770	30.254	-1.023	1.00 0.00	H
ATOM	2578	HG2 PRO	161	86.216	30.407	0.671	1.00 0.00	H
ATOM	2579	N LYS	162	88.368	25.996	0.190	1.00 53.61	N
ATOM	2580	CA LYS	162	89.328	24.975	0.589	1.00 53.61	C
ATOM	2581	C LYS	162	88.583	23.640	0.793	1.00 53.61	C
ATOM	2582	O LYS	162	88.822	22.906	1.752	1.00 53.61	O
ATOM	2583	CB LYS	162	90.164	25.478	1.789	1.00 53.61	C
ATOM	2584	CG LYS	162	91.340	26.388	1.385	1.00 53.61	C
ATOM	2585	CD LYS	162	91.954	27.122	2.589	1.00 53.61	C
ATOM	2586	CE LYS	162	93.207	27.952	2.246	1.00 53.61	C
ATOM	2587	NZ LYS	162	94.434	27.134	2.262	1.00 53.61	N1+
ATOM	2588	H LYS	162	87.531	26.039	0.771	1.00 0.00	H
ATOM	2589	HA LYS	162	90.016	24.776	-0.235	1.00 0.00	H
ATOM	2590	HB2 LYS	162	89.504	26.015	2.470	1.00 0.00	H
ATOM	2591	HB3 LYS	162	90.567	24.637	2.356	1.00 0.00	H
ATOM	2592	HG2 LYS	162	92.094	25.787	0.875	1.00 0.00	H
ATOM	2593	HG3 LYS	162	90.999	27.128	0.659	1.00 0.00	H
ATOM	2594	HD2 LYS	162	91.197	27.796	2.994	1.00 0.00	H
ATOM	2595	HD3 LYS	162	92.171	26.417	3.393	1.00 0.00	H
ATOM	2596	HE2 LYS	162	93.096	28.444	1.279	1.00 0.00	H
ATOM	2597	HE3 LYS	162	93.325	28.749	2.980	1.00 0.00	H
ATOM	2598	HZ1 LYS	162	95.254	27.710	2.146	1.00 0.00	H
ATOM	2599	HZ2 LYS	162	94.531	26.661	3.187	1.00 0.00	H
ATOM	2600	HZ3 LYS	162	94.408	26.415	1.559	1.00 0.00	H
ATOM	2601	N ALA	163	87.646	23.358	-0.119	1.00 26.20	N
ATOM	2602	CA ALA	163	86.917	22.107	-0.328	1.00 26.20	C
ATOM	2603	C ALA	163	86.579	21.942	-1.825	1.00 26.20	C
ATOM	2604	O ALA	163	85.572	21.326	-2.175	1.00 26.20	O
ATOM	2605	CB ALA	163	85.701	22.018	0.610	1.00 26.20	C
ATOM	2606	H ALA	163	87.395	24.109	-0.759	1.00 0.00	H
ATOM	2607	HA ALA	163	87.589	21.282	-0.082	1.00 0.00	H
ATOM	2608	HB1 ALA	163	85.210	21.050	0.512	1.00 0.00	H
ATOM	2609	HB2 ALA	163	85.986	22.143	1.654	1.00 0.00	H
ATOM	2610	HB3 ALA	163	84.962	22.779	0.370	1.00 0.00	H
ATOM	2611	N VAL	164	87.414	22.555	-2.682	1.00 29.25	N
ATOM	2612	CA VAL	164	87.256	22.869	-4.106	1.00 29.25	C
ATOM	2613	C VAL	164	86.503	21.824	-4.947	1.00 29.25	C
ATOM	2614	O VAL	164	85.473	22.147	-5.529	1.00 29.25	O
ATOM	2615	CB VAL	164	88.615	23.326	-4.709	1.00 29.25	C
ATOM	2616	CG1 VAL	164	88.492	23.808	-6.169	1.00 29.25	C
ATOM	2617	CG2 VAL	164	89.287	24.431	-3.868	1.00 29.25	C
ATOM	2618	H VAL	164	88.210	22.997	-2.253	1.00 0.00	H
ATOM	2619	HA VAL	164	86.613	23.751	-4.116	1.00 0.00	H
ATOM	2620	HB VAL	164	89.289	22.468	-4.715	1.00 0.00	H
ATOM	2621	HG11 VAL	164	89.452	24.147	-6.559	1.00 0.00	H
ATOM	2622	HG12 VAL	164	88.144	23.020	-6.839	1.00 0.00	H
ATOM	2623	HG13 VAL	164	87.791	24.640	-6.257	1.00 0.00	H
ATOM	2624	HG21 VAL	164	90.214	24.769	-4.333	1.00 0.00	H

ATOM	2625	HG22 VAL	164	88.638	25.304	-3.776	1.00	0.00	H
ATOM	2626	HG23 VAL	164	89.547	24.100	-2.863	1.00	0.00	H
ATOM	2627	N VAL	165	86.999	20.580	-4.993	1.00	22.78	N
ATOM	2628	CA VAL	165	86.498	19.496	-5.846	1.00	22.78	C
ATOM	2629	C VAL	165	84.983	19.259	-5.672	1.00	22.78	C
ATOM	2630	O VAL	165	84.233	19.293	-6.645	1.00	22.78	O
ATOM	2631	CB VAL	165	87.342	18.209	-5.609	1.00	22.78	C
ATOM	2632	CG1 VAL	165	86.960	17.063	-6.567	1.00	22.78	C
ATOM	2633	CG2 VAL	165	88.859	18.473	-5.716	1.00	22.78	C
ATOM	2634	H VAL	165	87.842	20.401	-4.474	1.00	0.00	H
ATOM	2635	HA VAL	165	86.648	19.817	-6.880	1.00	0.00	H
ATOM	2636	HB VAL	165	87.146	17.855	-4.596	1.00	0.00	H
ATOM	2637	HG11 VAL	165	87.567	16.175	-6.388	1.00	0.00	H
ATOM	2638	HG12 VAL	165	85.919	16.760	-6.454	1.00	0.00	H
ATOM	2639	HG13 VAL	165	87.102	17.352	-7.609	1.00	0.00	H
ATOM	2640	HG21 VAL	165	89.427	17.549	-5.598	1.00	0.00	H
ATOM	2641	HG22 VAL	165	89.117	18.890	-6.691	1.00	0.00	H
ATOM	2642	HG23 VAL	165	89.220	19.162	-4.953	1.00	0.00	H
ATOM	2643	N ALA	166	84.526	19.094	-4.424	1.00	35.31	N
ATOM	2644	CA ALA	166	83.120	18.854	-4.108	1.00	35.31	C
ATOM	2645	C ALA	166	82.289	20.151	-4.135	1.00	35.31	C
ATOM	2646	O ALA	166	81.090	20.100	-4.401	1.00	35.31	O
ATOM	2647	CB ALA	166	83.039	18.231	-2.711	1.00	35.31	C
ATOM	2648	H ALA	166	85.178	19.192	-3.662	1.00	0.00	H
ATOM	2649	HA ALA	166	82.692	18.155	-4.824	1.00	0.00	H
ATOM	2650	HB1 ALA	166	82.001	18.074	-2.423	1.00	0.00	H
ATOM	2651	HB2 ALA	166	83.521	17.253	-2.692	1.00	0.00	H
ATOM	2652	HB3 ALA	166	83.519	18.857	-1.962	1.00	0.00	H
ATOM	2653	N PHE	167	82.927	21.309	-3.910	1.00	99.46	N
ATOM	2654	CA PHE	167	82.319	22.634	-4.051	1.00	99.46	C
ATOM	2655	C PHE	167	81.989	22.940	-5.525	1.00	99.46	C
ATOM	2656	O PHE	167	80.924	23.491	-5.786	1.00	99.46	O
ATOM	2657	CB PHE	167	83.268	23.699	-3.444	1.00	99.46	C
ATOM	2658	CG PHE	167	82.949	25.173	-3.684	1.00	99.46	C
ATOM	2659	CD1 PHE	167	83.999	26.072	-3.972	1.00	99.46	C
ATOM	2660	CD2 PHE	167	81.621	25.654	-3.647	1.00	99.46	C
ATOM	2661	CE1 PHE	167	83.728	27.430	-4.223	1.00	99.46	C
ATOM	2662	CE2 PHE	167	81.349	27.010	-3.916	1.00	99.46	C
ATOM	2663	CZ PHE	167	82.402	27.900	-4.199	1.00	99.46	C
ATOM	2664	H PHE	167	83.922	21.265	-3.736	1.00	0.00	H
ATOM	2665	HA PHE	167	81.381	22.642	-3.494	1.00	0.00	H
ATOM	2666	HB2 PHE	167	83.321	23.546	-2.366	1.00	0.00	H
ATOM	2667	HB3 PHE	167	84.276	23.525	-3.808	1.00	0.00	H
ATOM	2668	HD1 PHE	167	85.021	25.721	-4.021	1.00	0.00	H
ATOM	2669	HD2 PHE	167	80.802	24.977	-3.455	1.00	0.00	H
ATOM	2670	HE1 PHE	167	84.536	28.106	-4.466	1.00	0.00	H
ATOM	2671	HE2 PHE	167	80.329	27.362	-3.930	1.00	0.00	H
ATOM	2672	HZ PHE	167	82.194	28.935	-4.428	1.00	0.00	H
ATOM	2673	N CYS	168	82.852	22.564	-6.477	1.00	23.09	N
ATOM	2674	CA CYS	168	82.608	22.753	-7.909	1.00	23.09	C
ATOM	2675	C CYS	168	81.620	21.699	-8.443	1.00	23.09	C
ATOM	2676	O CYS	168	80.706	22.043	-9.191	1.00	23.09	O
ATOM	2677	CB CYS	168	83.935	22.616	-8.682	1.00	23.09	C
ATOM	2678	SG CYS	168	85.061	23.982	-8.257	1.00	23.09	S
ATOM	2679	H CYS	168	83.766	22.219	-6.196	1.00	0.00	H
ATOM	2680	HA CYS	168	82.191	23.746	-8.088	1.00	0.00	H

ATOM	2681	HB2 CYS	168	84.424	21.662	-8.479	1.00	0.00	H
ATOM	2682	HB3 CYS	168	83.747	22.657	-9.757	1.00	0.00	H
ATOM	2683	HG CYS	168	85.935	23.752	-9.242	1.00	0.00	H
ATOM	2684	N LEU	169	81.782	20.431	-8.025	1.00	91.15	N
ATOM	2685	CA LEU	169	80.992	19.274	-8.461	1.00	91.15	C
ATOM	2686	C LEU	169	79.483	19.470	-8.250	1.00	91.15	C
ATOM	2687	O LEU	169	78.696	19.143	-9.137	1.00	91.15	O
ATOM	2688	CB LEU	169	81.529	18.011	-7.743	1.00	91.15	C
ATOM	2689	CG LEU	169	80.882	16.634	-8.035	1.00	91.15	C
ATOM	2690	CD1 LEU	169	79.569	16.388	-7.272	1.00	91.15	C
ATOM	2691	CD2 LEU	169	80.750	16.323	-9.534	1.00	91.15	C
ATOM	2692	H LEU	169	82.571	20.235	-7.421	1.00	0.00	H
ATOM	2693	HA LEU	169	81.161	19.160	-9.532	1.00	0.00	H
ATOM	2694	HB2 LEU	169	82.584	17.916	-8.002	1.00	0.00	H
ATOM	2695	HB3 LEU	169	81.502	18.180	-6.668	1.00	0.00	H
ATOM	2696	HG LEU	169	81.581	15.897	-7.636	1.00	0.00	H
ATOM	2697	HD11 LEU	169	79.312	15.333	-7.292	1.00	0.00	H
ATOM	2698	HD12 LEU	169	79.646	16.687	-6.227	1.00	0.00	H
ATOM	2699	HD13 LEU	169	78.724	16.914	-7.710	1.00	0.00	H
ATOM	2700	HD21 LEU	169	80.404	15.300	-9.692	1.00	0.00	H
ATOM	2701	HD22 LEU	169	80.037	16.983	-10.028	1.00	0.00	H
ATOM	2702	HD23 LEU	169	81.707	16.425	-10.046	1.00	0.00	H
ATOM	2703	N MET	170	79.084	20.022	-7.091	1.00	126.24	N
ATOM	2704	CA MET	170	77.686	20.191	-6.679	1.00	126.24	C
ATOM	2705	C MET	170	76.817	21.050	-7.621	1.00	126.24	C
ATOM	2706	O MET	170	75.595	20.970	-7.543	1.00	126.24	O
ATOM	2707	CB MET	170	77.606	20.731	-5.232	1.00	126.24	C
ATOM	2708	CG MET	170	78.096	22.183	-5.033	1.00	126.24	C
ATOM	2709	SD MET	170	77.003	23.252	-4.046	1.00	126.24	S
ATOM	2710	CE MET	170	75.533	23.310	-5.114	1.00	126.24	C
ATOM	2711	H MET	170	79.805	20.273	-6.428	1.00	0.00	H
ATOM	2712	HA MET	170	77.241	19.195	-6.681	1.00	0.00	H
ATOM	2713	HB2 MET	170	76.568	20.651	-4.907	1.00	0.00	H
ATOM	2714	HB3 MET	170	78.152	20.068	-4.560	1.00	0.00	H
ATOM	2715	HG2 MET	170	79.067	22.150	-4.539	1.00	0.00	H
ATOM	2716	HG3 MET	170	78.277	22.689	-5.982	1.00	0.00	H
ATOM	2717	HE1 MET	170	74.823	24.055	-4.755	1.00	0.00	H
ATOM	2718	HE2 MET	170	75.807	23.565	-6.137	1.00	0.00	H
ATOM	2719	HE3 MET	170	75.021	22.347	-5.137	1.00	0.00	H
ATOM	2720	N TRP	171	77.431	21.871	-8.483	1.00	58.91	N
ATOM	2721	CA TRP	171	76.728	22.669	-9.484	1.00	58.91	C
ATOM	2722	C TRP	171	76.660	21.872	-10.796	1.00	58.91	C
ATOM	2723	O TRP	171	75.583	21.713	-11.367	1.00	58.91	O
ATOM	2724	CB TRP	171	77.503	23.980	-9.747	1.00	58.91	C
ATOM	2725	CG TRP	171	77.880	24.782	-8.537	1.00	58.91	C
ATOM	2726	CD2 TRP	171	77.046	25.615	-7.674	1.00	58.91	C
ATOM	2727	CD1 TRP	171	79.127	24.868	-8.030	1.00	58.91	C
ATOM	2728	NE1 TRP	171	79.125	25.660	-6.903	1.00	58.91	N
ATOM	2729	CE2 TRP	171	77.872	26.173	-6.648	1.00	58.91	C
ATOM	2730	CE3 TRP	171	75.675	25.962	-7.651	1.00	58.91	C
ATOM	2731	CZ2 TRP	171	77.367	27.041	-5.664	1.00	58.91	C
ATOM	2732	CZ3 TRP	171	75.154	26.822	-6.662	1.00	58.91	C
ATOM	2733	CH2 TRP	171	75.997	27.366	-5.673	1.00	58.91	C
ATOM	2734	H TRP	171	78.442	21.860	-8.507	1.00	0.00	H
ATOM	2735	HA TRP	171	75.716	22.911	-9.151	1.00	0.00	H
ATOM	2736	HB2 TRP	171	78.425	23.774	-10.292	1.00	0.00	H

ATOM	2737	HB3 TRP	171	76.915	24.627	-10.398	1.00	0.00	H
ATOM	2738	HD1 TRP	171	79.984	24.361	-8.446	1.00	0.00	H
ATOM	2739	HE1 TRP	171	79.968	25.756	-6.353	1.00	0.00	H
ATOM	2740	HE3 TRP	171	75.017	25.562	-8.409	1.00	0.00	H
ATOM	2741	HZ2 TRP	171	78.035	27.466	-4.934	1.00	0.00	H
ATOM	2742	HZ3 TRP	171	74.102	27.074	-6.679	1.00	0.00	H
ATOM	2743	HH2 TRP	171	75.581	28.044	-4.943	1.00	0.00	H
ATOM	2744	N THR	172	77.797	21.348	-11.275	1.00	94.15	N
ATOM	2745	CA THR	172	77.921	20.697	-12.577	1.00	94.15	C
ATOM	2746	C THR	172	77.137	19.374	-12.658	1.00	94.15	C
ATOM	2747	O THR	172	76.603	19.055	-13.717	1.00	94.15	O
ATOM	2748	CB THR	172	79.428	20.500	-12.880	1.00	94.15	C
ATOM	2749	OG1 THR	172	80.084	19.798	-11.837	1.00	94.15	O
ATOM	2750	CG2 THR	172	80.175	21.828	-13.075	1.00	94.15	C
ATOM	2751	H THR	172	78.653	21.411	-10.738	1.00	0.00	H
ATOM	2752	HA THR	172	77.499	21.360	-13.335	1.00	0.00	H
ATOM	2753	HB THR	172	79.529	19.917	-13.799	1.00	0.00	H
ATOM	2754	HG1 THR	172	79.716	18.927	-11.778	1.00	0.00	H
ATOM	2755	HG21 THR	172	81.216	21.653	-13.346	1.00	0.00	H
ATOM	2756	HG22 THR	172	79.724	22.416	-13.876	1.00	0.00	H
ATOM	2757	HG23 THR	172	80.167	22.436	-12.170	1.00	0.00	H
ATOM	2758	N ILE	173	77.007	18.644	-11.539	1.00	91.58	N
ATOM	2759	CA ILE	173	76.242	17.396	-11.446	1.00	91.58	C
ATOM	2760	C ILE	173	74.727	17.613	-11.648	1.00	91.58	C
ATOM	2761	O ILE	173	74.020	16.665	-11.977	1.00	91.58	O
ATOM	2762	CB ILE	173	76.548	16.722	-10.078	1.00	91.58	C
ATOM	2763	CG2 ILE	173	75.983	17.500	-8.868	1.00	91.58	C
ATOM	2764	CG1 ILE	173	76.090	15.248	-10.043	1.00	91.58	C
ATOM	2765	CD1 ILE	173	76.803	14.413	-8.977	1.00	91.58	C
ATOM	2766	H ILE	173	77.455	18.976	-10.689	1.00	0.00	H
ATOM	2767	HA ILE	173	76.586	16.742	-12.251	1.00	0.00	H
ATOM	2768	HB ILE	173	77.634	16.710	-9.982	1.00	0.00	H
ATOM	2769	HG21 ILE	173	76.367	17.116	-7.925	1.00	0.00	H
ATOM	2770	HG22 ILE	173	76.229	18.558	-8.918	1.00	0.00	H
ATOM	2771	HG23 ILE	173	74.899	17.438	-8.818	1.00	0.00	H
ATOM	2772	HG12 ILE	173	75.011	15.185	-9.897	1.00	0.00	H
ATOM	2773	HG13 ILE	173	76.290	14.784	-11.008	1.00	0.00	H
ATOM	2774	HD11 ILE	173	76.457	13.379	-9.005	1.00	0.00	H
ATOM	2775	HD12 ILE	173	77.878	14.401	-9.154	1.00	0.00	H
ATOM	2776	HD13 ILE	173	76.624	14.798	-7.973	1.00	0.00	H
ATOM	2777	N ALA	174	74.236	18.844	-11.447	1.00	41.20	N
ATOM	2778	CA ALA	174	72.859	19.235	-11.710	1.00	41.20	C
ATOM	2779	C ALA	174	72.772	19.860	-13.110	1.00	41.20	C
ATOM	2780	O ALA	174	71.983	19.403	-13.932	1.00	41.20	O
ATOM	2781	CB ALA	174	72.431	20.284	-10.668	1.00	41.20	C
ATOM	2782	H ALA	174	74.888	19.573	-11.196	1.00	0.00	H
ATOM	2783	HA ALA	174	72.184	18.378	-11.656	1.00	0.00	H
ATOM	2784	HB1 ALA	174	71.401	20.599	-10.838	1.00	0.00	H
ATOM	2785	HB2 ALA	174	72.473	19.864	-9.662	1.00	0.00	H
ATOM	2786	HB3 ALA	174	73.058	21.175	-10.679	1.00	0.00	H
ATOM	2787	N ILE	175	73.585	20.890	-13.394	1.00	38.80	N
ATOM	2788	CA ILE	175	73.505	21.735	-14.594	1.00	38.80	C
ATOM	2789	C ILE	175	73.706	20.953	-15.912	1.00	38.80	C
ATOM	2790	O ILE	175	73.042	21.252	-16.898	1.00	38.80	O
ATOM	2791	CB ILE	175	74.497	22.932	-14.443	1.00	38.80	C
ATOM	2792	CG2 ILE	175	74.676	23.768	-15.733	1.00	38.80	C

ATOM	2793	CG1	ILE	175	74.069	23.861	-13.277	1.00	38.80	C
ATOM	2794	CD1	ILE	175	75.152	24.858	-12.836	1.00	38.80	C
ATOM	2795	H	ILE	175	74.230	21.186	-12.668	1.00	0.00	H
ATOM	2796	HA	ILE	175	72.490	22.137	-14.640	1.00	0.00	H
ATOM	2797	HB	ILE	175	75.474	22.512	-14.201	1.00	0.00	H
ATOM	2798	HG21	ILE	175	75.355	24.607	-15.591	1.00	0.00	H
ATOM	2799	HG22	ILE	175	75.098	23.181	-16.550	1.00	0.00	H
ATOM	2800	HG23	ILE	175	73.722	24.169	-16.079	1.00	0.00	H
ATOM	2801	HG12	ILE	175	73.164	24.404	-13.554	1.00	0.00	H
ATOM	2802	HG13	ILE	175	73.791	23.273	-12.404	1.00	0.00	H
ATOM	2803	HD11	ILE	175	74.851	25.371	-11.923	1.00	0.00	H
ATOM	2804	HD12	ILE	175	76.097	24.352	-12.642	1.00	0.00	H
ATOM	2805	HD13	ILE	175	75.329	25.625	-13.590	1.00	0.00	H
ATOM	2806	N	VAL	176	74.593	19.950	-15.936	1.00	40.48	N
ATOM	2807	CA	VAL	176	74.922	19.176	-17.141	1.00	40.48	C
ATOM	2808	C	VAL	176	73.975	17.952	-17.277	1.00	40.48	C
ATOM	2809	O	VAL	176	74.124	17.146	-18.191	1.00	40.48	O
ATOM	2810	CB	VAL	176	76.430	18.765	-17.038	1.00	40.48	C
ATOM	2811	CG1	VAL	176	76.981	18.023	-18.273	1.00	40.48	C
ATOM	2812	CG2	VAL	176	77.342	19.989	-16.783	1.00	40.48	C
ATOM	2813	H	VAL	176	75.087	19.708	-15.086	1.00	0.00	H
ATOM	2814	HA	VAL	176	74.788	19.792	-18.033	1.00	0.00	H
ATOM	2815	HB	VAL	176	76.539	18.088	-16.189	1.00	0.00	H
ATOM	2816	HG11	VAL	176	78.061	17.888	-18.212	1.00	0.00	H
ATOM	2817	HG12	VAL	176	76.560	17.024	-18.374	1.00	0.00	H
ATOM	2818	HG13	VAL	176	76.767	18.567	-19.194	1.00	0.00	H
ATOM	2819	HG21	VAL	176	78.387	19.690	-16.703	1.00	0.00	H
ATOM	2820	HG22	VAL	176	77.265	20.706	-17.601	1.00	0.00	H
ATOM	2821	HG23	VAL	176	77.096	20.516	-15.863	1.00	0.00	H
ATOM	2822	N	ILE	177	72.994	17.805	-16.375	1.00	103.53	N
ATOM	2823	CA	ILE	177	72.170	16.612	-16.204	1.00	103.53	C
ATOM	2824	C	ILE	177	70.676	16.975	-16.260	1.00	103.53	C
ATOM	2825	O	ILE	177	69.935	16.436	-17.080	1.00	103.53	O
ATOM	2826	CB	ILE	177	72.647	15.877	-14.914	1.00	103.53	C
ATOM	2827	CG2	ILE	177	71.667	14.849	-14.333	1.00	103.53	C
ATOM	2828	CG1	ILE	177	74.053	15.241	-15.058	1.00	103.53	C
ATOM	2829	CD1	ILE	177	74.130	14.052	-16.034	1.00	103.53	C
ATOM	2830	H	ILE	177	72.883	18.543	-15.694	1.00	0.00	H
ATOM	2831	HA	ILE	177	72.308	15.938	-17.050	1.00	0.00	H
ATOM	2832	HB	ILE	177	72.728	16.645	-14.146	1.00	0.00	H
ATOM	2833	HG21	ILE	177	72.056	14.423	-13.411	1.00	0.00	H
ATOM	2834	HG22	ILE	177	70.705	15.292	-14.088	1.00	0.00	H
ATOM	2835	HG23	ILE	177	71.494	14.034	-15.030	1.00	0.00	H
ATOM	2836	HG12	ILE	177	74.777	15.998	-15.358	1.00	0.00	H
ATOM	2837	HG13	ILE	177	74.388	14.903	-14.076	1.00	0.00	H
ATOM	2838	HD11	ILE	177	75.153	13.696	-16.135	1.00	0.00	H
ATOM	2839	HD12	ILE	177	73.528	13.209	-15.696	1.00	0.00	H
ATOM	2840	HD13	ILE	177	73.798	14.320	-17.036	1.00	0.00	H
ATOM	2841	N	ALA	178	70.226	17.922	-15.427	1.00	65.36	N
ATOM	2842	CA	ALA	178	68.814	18.269	-15.229	1.00	65.36	C
ATOM	2843	C	ALA	178	68.164	18.975	-16.428	1.00	65.36	C
ATOM	2844	O	ALA	178	66.944	19.098	-16.465	1.00	65.36	O
ATOM	2845	CB	ALA	178	68.705	19.187	-14.001	1.00	65.36	C
ATOM	2846	H	ALA	178	70.901	18.386	-14.822	1.00	0.00	H
ATOM	2847	HA	ALA	178	68.245	17.355	-15.055	1.00	0.00	H
ATOM	2848	HB1	ALA	178	67.661	19.406	-13.769	1.00	0.00	H

ATOM	2849	HB2 ALA	178	69.145	18.727	-13.117	1.00	0.00		H
ATOM	2850	HB3 ALA	178	69.212	20.139	-14.166	1.00	0.00		H
ATOM	2851	N VAL	179	68.965	19.418	-17.403	1.00	51.49		N
ATOM	2852	CA VAL	179	68.512	20.057	-18.634	1.00	51.49		C
ATOM	2853	C VAL	179	68.199	18.991	-19.711	1.00	51.49		C
ATOM	2854	O VAL	179	67.413	19.263	-20.613	1.00	51.49		O
ATOM	2855	CB VAL	179	69.645	21.014	-19.120	1.00	51.49		C
ATOM	2856	CG1 VAL	179	69.297	21.781	-20.412	1.00	51.49		C
ATOM	2857	CG2 VAL	179	70.034	22.037	-18.031	1.00	51.49		C
ATOM	2858	H VAL	179	69.955	19.270	-17.287	1.00	0.00		H
ATOM	2859	HA VAL	179	67.604	20.633	-18.445	1.00	0.00		H
ATOM	2860	HB VAL	179	70.532	20.414	-19.333	1.00	0.00		H
ATOM	2861	HG11 VAL	179	70.083	22.487	-20.679	1.00	0.00		H
ATOM	2862	HG12 VAL	179	69.176	21.114	-21.266	1.00	0.00		H
ATOM	2863	HG13 VAL	179	68.369	22.344	-20.302	1.00	0.00		H
ATOM	2864	HG21 VAL	179	70.837	22.690	-18.375	1.00	0.00		H
ATOM	2865	HG22 VAL	179	69.185	22.666	-17.761	1.00	0.00		H
ATOM	2866	HG23 VAL	179	70.393	21.559	-17.120	1.00	0.00		H
ATOM	2867	N LEU	180	68.782	17.783	-19.631	1.00	66.48		N
ATOM	2868	CA LEU	180	68.633	16.736	-20.651	1.00	66.48		C
ATOM	2869	C LEU	180	67.187	16.196	-20.829	1.00	66.48		C
ATOM	2870	O LEU	180	66.799	16.002	-21.979	1.00	66.48		O
ATOM	2871	CB LEU	180	69.629	15.572	-20.410	1.00	66.48		C
ATOM	2872	CG LEU	180	71.118	15.969	-20.271	1.00	66.48		C
ATOM	2873	CD1 LEU	180	71.959	14.761	-19.826	1.00	66.48		C
ATOM	2874	CD2 LEU	180	71.690	16.573	-21.563	1.00	66.48		C
ATOM	2875	H LEU	180	69.332	17.561	-18.812	1.00	0.00		H
ATOM	2876	HA LEU	180	68.891	17.197	-21.607	1.00	0.00		H
ATOM	2877	HB2 LEU	180	69.345	15.017	-19.521	1.00	0.00		H
ATOM	2878	HB3 LEU	180	69.532	14.857	-21.230	1.00	0.00		H
ATOM	2879	HG LEU	180	71.215	16.720	-19.486	1.00	0.00		H
ATOM	2880	HD11 LEU	180	73.002	15.044	-19.681	1.00	0.00		H
ATOM	2881	HD12 LEU	180	71.600	14.357	-18.879	1.00	0.00		H
ATOM	2882	HD13 LEU	180	71.931	13.960	-20.565	1.00	0.00		H
ATOM	2883	HD21 LEU	180	72.747	16.816	-21.445	1.00	0.00		H
ATOM	2884	HD22 LEU	180	71.600	15.882	-22.402	1.00	0.00		H
ATOM	2885	HD23 LEU	180	71.180	17.497	-21.836	1.00	0.00		H
ATOM	2886	N PRO	181	66.369	15.948	-19.772	1.00	109.03		N
ATOM	2887	CA PRO	181	64.979	15.465	-19.918	1.00	109.03		C
ATOM	2888	C PRO	181	63.985	16.425	-20.607	1.00	109.03		C
ATOM	2889	O PRO	181	62.826	16.048	-20.792	1.00	109.03		O
ATOM	2890	CD PRO	181	66.782	15.914	-18.366	1.00	109.03		C
ATOM	2891	CB PRO	181	64.461	15.283	-18.479	1.00	109.03		C
ATOM	2892	CG PRO	181	65.694	15.167	-17.608	1.00	109.03		C
ATOM	2893	HA PRO	181	64.989	14.512	-20.449	1.00	0.00		H
ATOM	2894	HD3 PRO	181	67.750	15.455	-18.196	1.00	0.00		H
ATOM	2895	HD2 PRO	181	66.827	16.938	-18.001	1.00	0.00		H
ATOM	2896	HB2 PRO	181	63.885	16.147	-18.138	1.00	0.00		H
ATOM	2897	HB3 PRO	181	63.801	14.419	-18.412	1.00	0.00		H
ATOM	2898	HG3 PRO	181	65.983	14.120	-17.528	1.00	0.00		H
ATOM	2899	HG2 PRO	181	65.552	15.545	-16.598	1.00	0.00		H
ATOM	2900	N LEU	182	64.366	17.680	-20.876	1.00	207.02		N
ATOM	2901	CA LEU	182	63.448	18.737	-21.272	1.00	207.02		C
ATOM	2902	C LEU	182	63.147	18.627	-22.770	1.00	207.02		C
ATOM	2903	O LEU	182	64.033	18.830	-23.607	1.00	207.02		O
ATOM	2904	CB LEU	182	64.093	20.116	-20.990	1.00	207.02		C

ATOM	2905	CG	LEU	182	63.962	20.634	-19.538	1.00207.02	C
ATOM	2906	CD1	LEU	182	64.419	19.630	-18.466	1.00207.02	C
ATOM	2907	CD2	LEU	182	64.713	21.964	-19.379	1.00207.02	C
ATOM	2908	H	LEU	182	65.342	17.929	-20.798	1.00 0.00	H
ATOM	2909	HA	LEU	182	62.522	18.650	-20.708	1.00 0.00	H
ATOM	2910	HB2	LEU	182	65.137	20.104	-21.300	1.00 0.00	H
ATOM	2911	HB3	LEU	182	63.624	20.866	-21.632	1.00 0.00	H
ATOM	2912	HG	LEU	182	62.908	20.839	-19.353	1.00 0.00	H
ATOM	2913	HD11	LEU	182	64.404	20.074	-17.470	1.00 0.00	H
ATOM	2914	HD12	LEU	182	63.769	18.756	-18.429	1.00 0.00	H
ATOM	2915	HD13	LEU	182	65.433	19.281	-18.654	1.00 0.00	H
ATOM	2916	HD21	LEU	182	64.591	22.369	-18.374	1.00 0.00	H
ATOM	2917	HD22	LEU	182	65.781	21.839	-19.561	1.00 0.00	H
ATOM	2918	HD23	LEU	182	64.343	22.713	-20.080	1.00 0.00	H
ATOM	2919	N	LEU	183	61.870	18.397	-23.103	1.00234.21	N
ATOM	2920	CA	LEU	183	61.293	18.401	-24.450	1.00234.21	C
ATOM	2921	C	LEU	183	61.264	19.817	-25.074	1.00234.21	C
ATOM	2922	O	LEU	183	60.244	20.332	-25.530	1.00234.21	O
ATOM	2923	CB	LEU	183	59.893	17.743	-24.419	1.00234.21	C
ATOM	2924	CG	LEU	183	59.894	16.208	-24.210	1.00234.21	C
ATOM	2925	CD1	LEU	183	58.456	15.673	-24.179	1.00234.21	C
ATOM	2926	CD2	LEU	183	60.681	15.446	-25.293	1.00234.21	C
ATOM	2927	H	LEU	183	61.236	18.190	-22.347	1.00 0.00	H
ATOM	2928	HA	LEU	183	61.946	17.825	-25.105	1.00 0.00	H
ATOM	2929	HB2	LEU	183	59.291	18.221	-23.644	1.00 0.00	H
ATOM	2930	HB3	LEU	183	59.373	17.947	-25.353	1.00 0.00	H
ATOM	2931	HG	LEU	183	60.354	15.989	-23.245	1.00 0.00	H
ATOM	2932	HD11	LEU	183	58.440	14.591	-24.043	1.00 0.00	H
ATOM	2933	HD12	LEU	183	57.887	16.112	-23.359	1.00 0.00	H
ATOM	2934	HD13	LEU	183	57.936	15.880	-25.113	1.00 0.00	H
ATOM	2935	HD21	LEU	183	60.591	14.368	-25.154	1.00 0.00	H
ATOM	2936	HD22	LEU	183	60.307	15.676	-26.291	1.00 0.00	H
ATOM	2937	HD23	LEU	183	61.748	15.668	-25.267	1.00 0.00	H
ATOM	2938	N	GLY	184	62.459	20.398	-25.156	1.00120.37	N
ATOM	2939	CA	GLY	184	62.885	21.438	-26.072	1.00120.37	C
ATOM	2940	C	GLY	184	63.835	20.764	-27.066	1.00120.37	C
ATOM	2941	O	GLY	184	63.665	20.924	-28.275	1.00120.37	O
ATOM	2942	H	GLY	184	63.189	19.868	-24.682	1.00 0.00	H
ATOM	2943	HA2	GLY	184	62.043	21.895	-26.595	1.00 0.00	H
ATOM	2944	HA3	GLY	184	63.409	22.224	-25.530	1.00 0.00	H
ATOM	2945	N	TRP	185	64.723	19.878	-26.576	1.00295.57	N
ATOM	2946	CA	TRP	185	65.340	18.821	-27.373	1.00295.57	C
ATOM	2947	C	TRP	185	64.303	17.689	-27.461	1.00295.57	C
ATOM	2948	O	TRP	185	64.262	16.766	-26.649	1.00295.57	O
ATOM	2949	CB	TRP	185	66.639	18.330	-26.697	1.00295.57	C
ATOM	2950	CG	TRP	185	67.345	17.180	-27.370	1.00295.57	C
ATOM	2951	CD2	TRP	185	67.674	16.984	-28.786	1.00295.57	C
ATOM	2952	CD1	TRP	185	67.775	16.065	-26.736	1.00295.57	C
ATOM	2953	NE1	TRP	185	68.358	15.209	-27.648	1.00295.57	N
ATOM	2954	CE2	TRP	185	68.305	15.709	-28.928	1.00295.57	C
ATOM	2955	CE3	TRP	185	67.502	17.739	-29.973	1.00295.57	C
ATOM	2956	CZ2	TRP	185	68.724	15.207	-30.172	1.00295.57	C
ATOM	2957	CZ3	TRP	185	67.908	17.241	-31.229	1.00295.57	C
ATOM	2958	CH2	TRP	185	68.515	15.974	-31.331	1.00295.57	C
ATOM	2959	H	TRP	185	64.753	19.729	-25.575	1.00 0.00	H
ATOM	2960	HA	TRP	185	65.568	19.192	-28.372	1.00 0.00	H

ATOM	2961	HB2 TRP	185	67.349	19.155	-26.650	1.00	0.00		H
ATOM	2962	HB3 TRP	185	66.436	18.046	-25.663	1.00	0.00		H
ATOM	2963	HD1 TRP	185	67.669	15.886	-25.674	1.00	0.00		H
ATOM	2964	HE1 TRP	185	68.777	14.306	-27.394	1.00	0.00		H
ATOM	2965	HE3 TRP	185	67.051	18.717	-29.927	1.00	0.00		H
ATOM	2966	HZ2 TRP	185	69.194	14.236	-30.242	1.00	0.00		H
ATOM	2967	HZ3 TRP	185	67.757	17.832	-32.120	1.00	0.00		H
ATOM	2968	HH2 TRP	185	68.824	15.591	-32.294	1.00	0.00		H
ATOM	2969	N ASN	186	63.404	17.818	-28.436	1.00223.96			N
ATOM	2970	CA ASN	186	62.331	16.874	-28.726	1.00223.96			C
ATOM	2971	C ASN	186	62.938	15.775	-29.599	1.00223.96			C
ATOM	2972	O ASN	186	62.940	15.872	-30.827	1.00223.96			O
ATOM	2973	CB ASN	186	61.198	17.611	-29.481	1.00223.96			C
ATOM	2974	CG ASN	186	60.375	18.485	-28.537	1.00223.96			C
ATOM	2975	OD1 ASN	186	59.473	17.995	-27.866	1.00223.96			O
ATOM	2976	ND2 ASN	186	60.675	19.773	-28.427	1.00223.96			N
ATOM	2977	H ASN	186	63.509	18.612	-29.050	1.00	0.00		H
ATOM	2978	HA ASN	186	61.937	16.426	-27.812	1.00	0.00		H
ATOM	2979	HB2 ASN	186	61.586	18.201	-30.312	1.00	0.00		H
ATOM	2980	HB3 ASN	186	60.516	16.885	-29.925	1.00	0.00		H
ATOM	2981	HD22 ASN	186	60.191	20.291	-27.701	1.00	0.00		H
ATOM	2982	HD21 ASN	186	61.450	20.187	-28.924	1.00	0.00		H
ATOM	2983	N CYS	187	63.548	14.768	-28.960	1.00115.59			N
ATOM	2984	CA CYS	187	64.241	13.686	-29.653	1.00115.59			C
ATOM	2985	C CYS	187	63.211	12.612	-30.066	1.00115.59			C
ATOM	2986	O CYS	187	63.147	11.523	-29.482	1.00115.59			O
ATOM	2987	CB CYS	187	65.363	13.082	-28.780	1.00115.59			C
ATOM	2988	SG CYS	187	66.759	12.314	-29.687	1.00115.59			S
ATOM	2989	H CYS	187	63.576	14.800	-27.950	1.00	0.00		H
ATOM	2990	HA CYS	187	64.718	14.130	-30.523	1.00	0.00		H
ATOM	2991	HB2 CYS	187	65.814	13.877	-28.185	1.00	0.00		H
ATOM	2992	HB3 CYS	187	64.977	12.374	-28.046	1.00	0.00		H
ATOM	2993	N GLU	188	62.401	12.946	-31.077	1.00194.78			N
ATOM	2994	CA GLU	188	61.314	12.138	-31.617	1.00194.78			C
ATOM	2995	C GLU	188	61.798	10.829	-32.274	1.00194.78			C
ATOM	2996	O GLU	188	62.901	10.745	-32.821	1.00194.78			O
ATOM	2997	CB GLU	188	60.529	12.944	-32.675	1.00194.78			C
ATOM	2998	CG GLU	188	60.029	14.337	-32.259	1.00194.78			C
ATOM	2999	CD GLU	188	59.045	14.278	-31.105	1.00194.78			C
ATOM	3000	OE1 GLU	188	57.837	14.063	-31.349	1.00194.78			O
ATOM	3001	OE2 GLU	188	59.480	14.491	-29.956	1.00194.78			O1-
ATOM	3002	H GLU	188	62.454	13.905	-31.401	1.00	0.00		H
ATOM	3003	HA GLU	188	60.652	11.893	-30.784	1.00	0.00		H
ATOM	3004	HB2 GLU	188	61.122	13.045	-33.585	1.00	0.00		H
ATOM	3005	HB3 GLU	188	59.655	12.357	-32.945	1.00	0.00		H
ATOM	3006	HG2 GLU	188	60.854	14.996	-31.998	1.00	0.00		H
ATOM	3007	HG3 GLU	188	59.527	14.811	-33.103	1.00	0.00		H
ATOM	3008	N LYS	189	60.928	9.816	-32.209	1.00146.36			N
ATOM	3009	CA LYS	189	61.028	8.499	-32.849	1.00146.36			C
ATOM	3010	C LYS	189	59.875	8.338	-33.870	1.00146.36			C
ATOM	3011	O LYS	189	59.597	7.237	-34.340	1.00146.36			O
ATOM	3012	CB LYS	189	60.927	7.400	-31.754	1.00146.36			C
ATOM	3013	CG LYS	189	62.201	7.120	-30.926	1.00146.36			C
ATOM	3014	CD LYS	189	62.787	8.346	-30.213	1.00146.36			C
ATOM	3015	CE LYS	189	63.621	8.022	-28.973	1.00146.36			C
ATOM	3016	NZ LYS	189	64.379	9.202	-28.544	1.00146.36			N1+

ATOM	3017	H	LYS	189	60.058	10.006	-31.735	1.00	0.00	H
ATOM	3018	HA	LYS	189	61.966	8.396	-33.399	1.00	0.00	H
ATOM	3019	HB2	LYS	189	60.098	7.629	-31.083	1.00	0.00	H
ATOM	3020	HB3	LYS	189	60.656	6.448	-32.216	1.00	0.00	H
ATOM	3021	HG2	LYS	189	61.953	6.358	-30.186	1.00	0.00	H
ATOM	3022	HG3	LYS	189	62.967	6.676	-31.564	1.00	0.00	H
ATOM	3023	HD2	LYS	189	63.398	8.901	-30.926	1.00	0.00	H
ATOM	3024	HD3	LYS	189	61.982	9.011	-29.897	1.00	0.00	H
ATOM	3025	HE2	LYS	189	62.970	7.706	-28.155	1.00	0.00	H
ATOM	3026	HE3	LYS	189	64.319	7.206	-29.157	1.00	0.00	H
ATOM	3027	HZ1	LYS	189	64.524	9.112	-27.516	1.00	0.00	H
ATOM	3028	HZ2	LYS	189	65.286	9.204	-29.003	1.00	0.00	H
ATOM	3029	HZ3	LYS	189	63.875	10.062	-28.740	1.00	0.00	H
ATOM	3030	N	LEU	190	59.168	9.430	-34.173	1.00272.16		N
ATOM	3031	CA	LEU	190	57.980	9.536	-35.005	1.00272.16		C
ATOM	3032	C	LEU	190	58.027	10.931	-35.633	1.00272.16		C
ATOM	3033	O	LEU	190	58.657	11.830	-35.079	1.00272.16		O
ATOM	3034	CB	LEU	190	56.718	9.244	-34.159	1.00272.16		C
ATOM	3035	CG	LEU	190	55.361	9.309	-34.898	1.00272.16		C
ATOM	3036	CD1	LEU	190	55.242	8.245	-36.002	1.00272.16		C
ATOM	3037	CD2	LEU	190	54.200	9.175	-33.901	1.00272.16		C
ATOM	3038	H	LEU	190	59.557	10.324	-33.899	1.00	0.00	H
ATOM	3039	HA	LEU	190	58.065	8.801	-35.807	1.00	0.00	H
ATOM	3040	HB2	LEU	190	56.819	8.261	-33.697	1.00	0.00	H
ATOM	3041	HB3	LEU	190	56.694	9.957	-33.332	1.00	0.00	H
ATOM	3042	HG	LEU	190	55.255	10.293	-35.357	1.00	0.00	H
ATOM	3043	HD11	LEU	190	54.267	8.294	-36.488	1.00	0.00	H
ATOM	3044	HD12	LEU	190	55.994	8.374	-36.780	1.00	0.00	H
ATOM	3045	HD13	LEU	190	55.356	7.239	-35.595	1.00	0.00	H
ATOM	3046	HD21	LEU	190	53.235	9.258	-34.403	1.00	0.00	H
ATOM	3047	HD22	LEU	190	54.224	8.216	-33.383	1.00	0.00	H
ATOM	3048	HD23	LEU	190	54.237	9.961	-33.145	1.00	0.00	H
ATOM	3049	N	GLN	191	57.420	11.127	-36.807	1.00221.30		N
ATOM	3050	CA	GLN	191	57.500	12.331	-37.646	1.00221.30		C
ATOM	3051	C	GLN	191	58.855	12.347	-38.379	1.00221.30		C
ATOM	3052	O	GLN	191	58.906	12.190	-39.595	1.00221.30		O
ATOM	3053	CB	GLN	191	57.181	13.662	-36.904	1.00221.30		C
ATOM	3054	CG	GLN	191	55.812	13.722	-36.169	1.00221.30		C
ATOM	3055	CD	GLN	191	55.838	13.919	-34.642	1.00221.30		C
ATOM	3056	OE1	GLN	191	54.824	14.296	-34.068	1.00221.30		O
ATOM	3057	NE2	GLN	191	56.961	13.702	-33.968	1.00221.30		N
ATOM	3058	H	GLN	191	56.951	10.335	-37.217	1.00	0.00	H
ATOM	3059	HA	GLN	191	56.738	12.205	-38.416	1.00	0.00	H
ATOM	3060	HB2	GLN	191	58.006	13.961	-36.259	1.00	0.00	H
ATOM	3061	HB3	GLN	191	57.171	14.448	-37.661	1.00	0.00	H
ATOM	3062	HG2	GLN	191	55.228	14.546	-36.580	1.00	0.00	H
ATOM	3063	HG3	GLN	191	55.227	12.826	-36.376	1.00	0.00	H
ATOM	3064	HE22	GLN	191	57.034	13.881	-32.958	1.00	0.00	H
ATOM	3065	HE21	GLN	191	57.752	13.260	-34.425	1.00	0.00	H
ATOM	3066	N	SER	192	59.933	12.435	-37.595	1.00147.46		N
ATOM	3067	CA	SER	192	61.332	12.270	-37.955	1.00147.46		C
ATOM	3068	C	SER	192	61.993	11.420	-36.856	1.00147.46		C
ATOM	3069	O	SER	192	61.502	11.380	-35.727	1.00147.46		O
ATOM	3070	CB	SER	192	62.007	13.652	-38.093	1.00147.46		C
ATOM	3071	OG	SER	192	61.560	14.333	-39.252	1.00147.46		O
ATOM	3072	H	SER	192	59.763	12.423	-36.593	1.00	0.00	H

ATOM	3073	HA	SER	192	61.411	11.724	-38.898	1.00	0.00		H
ATOM	3074	HB2	SER	192	61.816	14.262	-37.209	1.00	0.00		H
ATOM	3075	HB3	SER	192	63.090	13.536	-38.164	1.00	0.00		H
ATOM	3076	HG	SER	192	61.976	15.181	-39.290	1.00	0.00		H
ATOM	3077	N	VAL	193	63.124	10.777	-37.160	1.00	42.45		N
ATOM	3078	CA	VAL	193	64.028	10.206	-36.163	1.00	42.45		C
ATOM	3079	C	VAL	193	65.024	11.338	-35.837	1.00	42.45		C
ATOM	3080	O	VAL	193	65.484	12.026	-36.750	1.00	42.45		O
ATOM	3081	CB	VAL	193	64.770	8.989	-36.781	1.00	42.45		C
ATOM	3082	CG1	VAL	193	65.656	8.271	-35.748	1.00	42.45		C
ATOM	3083	CG2	VAL	193	63.798	7.965	-37.404	1.00	42.45		C
ATOM	3084	H	VAL	193	63.524	10.917	-38.074	1.00	0.00		H
ATOM	3085	HA	VAL	193	63.484	9.896	-35.268	1.00	0.00		H
ATOM	3086	HB	VAL	193	65.427	9.344	-37.578	1.00	0.00		H
ATOM	3087	HG11	VAL	193	66.193	7.434	-36.196	1.00	0.00		H
ATOM	3088	HG12	VAL	193	66.413	8.935	-35.335	1.00	0.00		H
ATOM	3089	HG13	VAL	193	65.070	7.879	-34.917	1.00	0.00		H
ATOM	3090	HG21	VAL	193	64.336	7.096	-37.785	1.00	0.00		H
ATOM	3091	HG22	VAL	193	63.075	7.610	-36.669	1.00	0.00		H
ATOM	3092	HG23	VAL	193	63.242	8.385	-38.242	1.00	0.00		H
ATOM	3093	N	CYS	194	65.306	11.578	-34.551	1.00	106.60		N
ATOM	3094	CA	CYS	194	66.040	12.762	-34.088	1.00	106.60		C
ATOM	3095	C	CYS	194	67.546	12.796	-34.396	1.00	106.60		C
ATOM	3096	O	CYS	194	68.137	13.873	-34.328	1.00	106.60		O
ATOM	3097	CB	CYS	194	65.829	12.933	-32.576	1.00	106.60		C
ATOM	3098	SG	CYS	194	66.093	11.507	-31.461	1.00	106.60		S
ATOM	3099	H	CYS	194	64.816	11.034	-33.849	1.00	0.00		H
ATOM	3100	HA	CYS	194	65.614	13.636	-34.584	1.00	0.00		H
ATOM	3101	HB2	CYS	194	66.438	13.764	-32.214	1.00	0.00		H
ATOM	3102	HB3	CYS	194	64.795	13.248	-32.460	1.00	0.00		H
ATOM	3103	N	SER	195	68.164	11.667	-34.746	1.00	171.79		N
ATOM	3104	CA	SER	195	69.556	11.569	-35.164	1.00	171.79		C
ATOM	3105	C	SER	195	69.753	10.313	-36.023	1.00	171.79		C
ATOM	3106	O	SER	195	68.836	9.504	-36.184	1.00	171.79		O
ATOM	3107	CB	SER	195	70.521	11.763	-33.967	1.00	171.79		C
ATOM	3108	OG	SER	195	70.357	10.783	-32.962	1.00	171.79		O
ATOM	3109	H	SER	195	67.629	10.820	-34.862	1.00	0.00		H
ATOM	3110	HA	SER	195	69.738	12.400	-35.849	1.00	0.00		H
ATOM	3111	HB2	SER	195	71.559	11.739	-34.308	1.00	0.00		H
ATOM	3112	HB3	SER	195	70.378	12.746	-33.518	1.00	0.00		H
ATOM	3113	HG	SER	195	70.947	10.051	-33.152	1.00	0.00		H
ATOM	3114	N	ASP	196	70.942	10.198	-36.609	1.00	132.64		N
ATOM	3115	CA	ASP	196	71.418	9.209	-37.571	1.00	132.64		C
ATOM	3116	C	ASP	196	71.825	7.901	-36.841	1.00	132.64		C
ATOM	3117	O	ASP	196	71.033	7.344	-36.077	1.00	132.64		O
ATOM	3118	CB	ASP	196	72.620	9.877	-38.307	1.00	132.64		C
ATOM	3119	CG	ASP	196	73.723	10.352	-37.363	1.00	132.64		C
ATOM	3120	OD1	ASP	196	74.678	9.567	-37.196	1.00	132.64		O
ATOM	3121	OD2	ASP	196	73.477	11.363	-36.674	1.00	132.64		O1-
ATOM	3122	H	ASP	196	71.669	10.878	-36.372	1.00	0.00		H
ATOM	3123	HA	ASP	196	70.625	8.976	-38.281	1.00	0.00		H
ATOM	3124	HB2	ASP	196	73.044	9.208	-39.056	1.00	0.00		H
ATOM	3125	HB3	ASP	196	72.269	10.748	-38.862	1.00	0.00		H
ATOM	3126	N	ILE	197	73.030	7.378	-37.110	1.00	128.69		N
ATOM	3127	CA	ILE	197	73.644	6.236	-36.441	1.00	128.69		C
ATOM	3128	C	ILE	197	74.223	6.664	-35.074	1.00	128.69		C

ATOM	3129	O	ILE	197	74.349	5.817	-34.187	1.00128.69	O
ATOM	3130	CB	ILE	197	74.722	5.604	-37.377	1.00128.69	C
ATOM	3131	CG2	ILE	197	75.831	6.585	-37.818	1.00128.69	C
ATOM	3132	CG1	ILE	197	75.318	4.300	-36.792	1.00128.69	C
ATOM	3133	CD1	ILE	197	76.012	3.403	-37.828	1.00128.69	C
ATOM	3134	H	ILE	197	73.691	8.044	-37.518	1.00 0.00	H
ATOM	3135	HA	ILE	197	72.868	5.492	-36.248	1.00 0.00	H
ATOM	3136	HB	ILE	197	74.187	5.315	-38.283	1.00 0.00	H
ATOM	3137	HG21	ILE	197	76.551	6.114	-38.484	1.00 0.00	H
ATOM	3138	HG22	ILE	197	75.421	7.433	-38.365	1.00 0.00	H
ATOM	3139	HG23	ILE	197	76.384	6.984	-36.966	1.00 0.00	H
ATOM	3140	HG12	ILE	197	76.017	4.536	-35.989	1.00 0.00	H
ATOM	3141	HG13	ILE	197	74.518	3.721	-36.328	1.00 0.00	H
ATOM	3142	HD11	ILE	197	76.339	2.471	-37.368	1.00 0.00	H
ATOM	3143	HD12	ILE	197	75.338	3.149	-38.647	1.00 0.00	H
ATOM	3144	HD13	ILE	197	76.894	3.881	-38.253	1.00 0.00	H
ATOM	3145	N	PHE	198	74.485	7.965	-34.850	1.00272.23	N
ATOM	3146	CA	PHE	198	74.598	8.547	-33.509	1.00272.23	C
ATOM	3147	C	PHE	198	73.264	8.329	-32.749	1.00272.23	C
ATOM	3148	O	PHE	198	72.236	8.797	-33.247	1.00272.23	O
ATOM	3149	CB	PHE	198	74.941	10.050	-33.591	1.00272.23	C
ATOM	3150	CG	PHE	198	76.423	10.345	-33.762	1.00272.23	C
ATOM	3151	CD1	PHE	198	77.310	10.174	-32.677	1.00272.23	C
ATOM	3152	CD2	PHE	198	76.919	10.797	-35.001	1.00272.23	C
ATOM	3153	CE1	PHE	198	78.683	10.445	-32.835	1.00272.23	C
ATOM	3154	CE2	PHE	198	78.292	11.067	-35.160	1.00272.23	C
ATOM	3155	CZ	PHE	198	79.175	10.890	-34.077	1.00272.23	C
ATOM	3156	H	PHE	198	74.468	8.611	-35.646	1.00 0.00	H
ATOM	3157	HA	PHE	198	75.430	8.052	-33.018	1.00 0.00	H
ATOM	3158	HB2	PHE	198	74.369	10.529	-34.386	1.00 0.00	H
ATOM	3159	HB3	PHE	198	74.628	10.553	-32.675	1.00 0.00	H
ATOM	3160	HD1	PHE	198	76.939	9.834	-31.721	1.00 0.00	H
ATOM	3161	HD2	PHE	198	76.245	10.938	-35.836	1.00 0.00	H
ATOM	3162	HE1	PHE	198	79.359	10.311	-32.003	1.00 0.00	H
ATOM	3163	HE2	PHE	198	78.658	11.408	-36.116	1.00 0.00	H
ATOM	3164	HZ	PHE	198	80.228	11.098	-34.202	1.00 0.00	H
ATOM	3165	N	PRO	199	73.249	7.577	-31.616	1.00174.90	N
ATOM	3166	CA	PRO	199	72.042	7.112	-30.910	1.00174.90	C
ATOM	3167	C	PRO	199	70.888	8.115	-30.721	1.00174.90	C
ATOM	3168	O	PRO	199	70.899	8.936	-29.807	1.00174.90	O
ATOM	3169	CD	PRO	199	74.442	7.004	-30.974	1.00174.90	C
ATOM	3170	CB	PRO	199	72.551	6.591	-29.559	1.00174.90	C
ATOM	3171	CG	PRO	199	73.947	6.086	-29.856	1.00174.90	C
ATOM	3172	HA	PRO	199	71.670	6.262	-31.484	1.00 0.00	H
ATOM	3173	HD3	PRO	199	75.050	6.424	-31.669	1.00 0.00	H
ATOM	3174	HD2	PRO	199	75.054	7.811	-30.568	1.00 0.00	H
ATOM	3175	HB2	PRO	199	72.628	7.409	-28.845	1.00 0.00	H
ATOM	3176	HB3	PRO	199	71.901	5.831	-29.125	1.00 0.00	H
ATOM	3177	HG3	PRO	199	73.890	5.060	-30.225	1.00 0.00	H
ATOM	3178	HG2	PRO	199	74.599	6.089	-28.982	1.00 0.00	H
ATOM	3179	N	HIS	200	69.848	7.965	-31.548	1.00 83.82	N
ATOM	3180	CA	HIS	200	68.548	8.628	-31.412	1.00 83.82	C
ATOM	3181	C	HIS	200	67.684	7.905	-30.358	1.00 83.82	C
ATOM	3182	O	HIS	200	66.712	8.459	-29.837	1.00 83.82	O
ATOM	3183	ND1	HIS	200	68.790	6.809	-34.386	1.00 83.82	N
ATOM	3184	CG	HIS	200	67.847	7.175	-33.436	1.00 83.82	C

ATOM	3185	CB	HIS	200	67.819	8.537	-32.773	1.00	83.82	C
ATOM	3186	NE2	HIS	200	67.519	5.020	-34.066	1.00	83.82	N
ATOM	3187	CD2	HIS	200	67.067	6.056	-33.247	1.00	83.82	C
ATOM	3188	CE1	HIS	200	68.541	5.546	-34.731	1.00	83.82	C
ATOM	3189	H	HIS	200	69.947	7.349	-32.344	1.00	0.00	H
ATOM	3190	HA	HIS	200	68.671	9.672	-31.116	1.00	0.00	H
ATOM	3191	HD1	HIS	200	69.487	7.388	-34.869	1.00	0.00	H
ATOM	3192	HB2	HIS	200	66.778	8.842	-32.662	1.00	0.00	H
ATOM	3193	HB3	HIS	200	68.256	9.254	-33.463	1.00	0.00	H
ATOM	3194	HD2	HIS	200	66.230	5.912	-32.579	1.00	0.00	H
ATOM	3195	HE1	HIS	200	69.109	5.015	-35.482	1.00	0.00	H
ATOM	3196	N	ILE	201	68.038	6.649	-30.057	1.00	151.70	N
ATOM	3197	CA	ILE	201	67.479	5.817	-29.009	1.00	151.70	C
ATOM	3198	C	ILE	201	68.141	6.242	-27.682	1.00	151.70	C
ATOM	3199	O	ILE	201	69.352	6.457	-27.600	1.00	151.70	O
ATOM	3200	CB	ILE	201	67.722	4.325	-29.380	1.00	151.70	C
ATOM	3201	CG2	ILE	201	69.210	3.927	-29.496	1.00	151.70	C
ATOM	3202	CG1	ILE	201	66.972	3.343	-28.455	1.00	151.70	C
ATOM	3203	CD1	ILE	201	65.440	3.459	-28.500	1.00	151.70	C
ATOM	3204	H	ILE	201	68.885	6.321	-30.493	1.00	0.00	H
ATOM	3205	HA	ILE	201	66.408	6.013	-28.962	1.00	0.00	H
ATOM	3206	HB	ILE	201	67.299	4.182	-30.377	1.00	0.00	H
ATOM	3207	HG21	ILE	201	69.311	2.911	-29.877	1.00	0.00	H
ATOM	3208	HG22	ILE	201	69.755	4.577	-30.179	1.00	0.00	H
ATOM	3209	HG23	ILE	201	69.716	3.961	-28.530	1.00	0.00	H
ATOM	3210	HG12	ILE	201	67.237	2.321	-28.726	1.00	0.00	H
ATOM	3211	HG13	ILE	201	67.308	3.470	-27.429	1.00	0.00	H
ATOM	3212	HD11	ILE	201	64.988	2.668	-27.900	1.00	0.00	H
ATOM	3213	HD12	ILE	201	65.086	4.407	-28.095	1.00	0.00	H
ATOM	3214	HD13	ILE	201	65.063	3.359	-29.518	1.00	0.00	H
ATOM	3215	N	ASP	202	67.306	6.430	-26.661	1.00	143.70	N
ATOM	3216	CA	ASP	202	67.526	7.317	-25.511	1.00	143.70	C
ATOM	3217	C	ASP	202	68.542	6.783	-24.504	1.00	143.70	C
ATOM	3218	O	ASP	202	69.001	7.526	-23.636	1.00	143.70	O
ATOM	3219	CB	ASP	202	66.195	7.543	-24.743	1.00	143.70	C
ATOM	3220	CG	ASP	202	64.997	7.689	-25.661	1.00	143.70	C
ATOM	3221	OD1	ASP	202	64.669	8.833	-26.035	1.00	143.70	O
ATOM	3222	OD2	ASP	202	64.537	6.627	-26.143	1.00	143.70	O1-
ATOM	3223	H	ASP	202	66.328	6.197	-26.810	1.00	0.00	H
ATOM	3224	HA	ASP	202	67.883	8.273	-25.895	1.00	0.00	H
ATOM	3225	HB2	ASP	202	65.992	6.711	-24.067	1.00	0.00	H
ATOM	3226	HB3	ASP	202	66.265	8.428	-24.111	1.00	0.00	H
ATOM	3227	N	GLU	203	68.913	5.504	-24.612	1.00	84.97	N
ATOM	3228	CA	GLU	203	69.700	4.784	-23.615	1.00	84.97	C
ATOM	3229	C	GLU	203	71.160	5.294	-23.543	1.00	84.97	C
ATOM	3230	O	GLU	203	71.876	5.033	-22.578	1.00	84.97	O
ATOM	3231	CB	GLU	203	69.638	3.247	-23.834	1.00	84.97	C
ATOM	3232	CG	GLU	203	68.542	2.663	-24.766	1.00	84.97	C
ATOM	3233	CD	GLU	203	67.075	2.987	-24.466	1.00	84.97	C
ATOM	3234	OE1	GLU	203	66.755	3.805	-23.577	1.00	84.97	O
ATOM	3235	OE2	GLU	203	66.217	2.536	-25.252	1.00	84.97	O1-
ATOM	3236	H	GLU	203	68.425	4.953	-25.301	1.00	0.00	H
ATOM	3237	HA	GLU	203	69.220	4.996	-22.662	1.00	0.00	H
ATOM	3238	HB2	GLU	203	70.596	2.892	-24.215	1.00	0.00	H
ATOM	3239	HB3	GLU	203	69.539	2.776	-22.855	1.00	0.00	H
ATOM	3240	HG2	GLU	203	68.752	2.968	-25.790	1.00	0.00	H

ATOM	3241	HG3 GLU	203	68.626	1.577	-24.765	1.00	0.00	H
ATOM	3242	N THR	204	71.577	6.095	-24.531	1.00	108.72	N
ATOM	3243	CA THR	204	72.769	6.938	-24.528	1.00	108.72	C
ATOM	3244	C THR	204	72.777	7.919	-23.328	1.00	108.72	C
ATOM	3245	O THR	204	73.791	8.073	-22.643	1.00	108.72	O
ATOM	3246	CB THR	204	72.863	7.624	-25.921	1.00	108.72	C
ATOM	3247	OG1 THR	204	74.100	8.281	-26.102	1.00	108.72	O
ATOM	3248	CG2 THR	204	71.747	8.640	-26.233	1.00	108.72	C
ATOM	3249	H THR	204	70.907	6.253	-25.273	1.00	0.00	H
ATOM	3250	HA THR	204	73.634	6.285	-24.412	1.00	0.00	H
ATOM	3251	HB THR	204	72.824	6.834	-26.671	1.00	0.00	H
ATOM	3252	HG1 THR	204	74.096	8.707	-26.948	1.00	0.00	H
ATOM	3253	HG21 THR	204	71.811	9.001	-27.260	1.00	0.00	H
ATOM	3254	HG22 THR	204	70.755	8.203	-26.119	1.00	0.00	H
ATOM	3255	HG23 THR	204	71.796	9.516	-25.586	1.00	0.00	H
ATOM	3256	N TYR	205	71.621	8.522	-23.010	1.00	183.88	N
ATOM	3257	CA TYR	205	71.494	9.559	-21.993	1.00	183.88	C
ATOM	3258	C TYR	205	71.596	8.952	-20.586	1.00	183.88	C
ATOM	3259	O TYR	205	72.262	9.536	-19.733	1.00	183.88	O
ATOM	3260	CB TYR	205	70.143	10.294	-22.149	1.00	183.88	C
ATOM	3261	CG TYR	205	69.917	10.951	-23.506	1.00	183.88	C
ATOM	3262	CD1 TYR	205	70.829	11.904	-24.010	1.00	183.88	C
ATOM	3263	CD2 TYR	205	68.789	10.603	-24.279	1.00	183.88	C
ATOM	3264	CE1 TYR	205	70.629	12.471	-25.285	1.00	183.88	C
ATOM	3265	CE2 TYR	205	68.597	11.156	-25.560	1.00	183.88	C
ATOM	3266	CZ TYR	205	69.524	12.085	-26.068	1.00	183.88	C
ATOM	3267	OH TYR	205	69.359	12.613	-27.314	1.00	183.88	O
ATOM	3268	H TYR	205	70.782	8.284	-23.531	1.00	0.00	H
ATOM	3269	HA TYR	205	72.310	10.274	-22.116	1.00	0.00	H
ATOM	3270	HB2 TYR	205	69.319	9.609	-21.940	1.00	0.00	H
ATOM	3271	HB3 TYR	205	70.070	11.078	-21.393	1.00	0.00	H
ATOM	3272	HD1 TYR	205	71.692	12.200	-23.432	1.00	0.00	H
ATOM	3273	HD2 TYR	205	68.064	9.900	-23.899	1.00	0.00	H
ATOM	3274	HE1 TYR	205	71.336	13.191	-25.672	1.00	0.00	H
ATOM	3275	HE2 TYR	205	67.733	10.865	-26.140	1.00	0.00	H
ATOM	3276	HH TYR	205	68.944	12.012	-27.923	1.00	0.00	H
ATOM	3277	N LEU	206	71.017	7.763	-20.340	1.00	122.29	N
ATOM	3278	CA LEU	206	71.153	7.073	-19.051	1.00	122.29	C
ATOM	3279	C LEU	206	72.553	6.457	-18.867	1.00	122.29	C
ATOM	3280	O LEU	206	73.041	6.403	-17.737	1.00	122.29	O
ATOM	3281	CB LEU	206	70.030	6.034	-18.820	1.00	122.29	C
ATOM	3282	CG LEU	206	69.912	4.850	-19.802	1.00	122.29	C
ATOM	3283	CD1 LEU	206	70.692	3.604	-19.348	1.00	122.29	C
ATOM	3284	CD2 LEU	206	68.442	4.483	-20.046	1.00	122.29	C
ATOM	3285	H LEU	206	70.509	7.309	-21.087	1.00	0.00	H
ATOM	3286	HA LEU	206	71.023	7.818	-18.269	1.00	0.00	H
ATOM	3287	HB2 LEU	206	70.122	5.641	-17.808	1.00	0.00	H
ATOM	3288	HB3 LEU	206	69.088	6.587	-18.818	1.00	0.00	H
ATOM	3289	HG LEU	206	70.315	5.175	-20.751	1.00	0.00	H
ATOM	3290	HD11 LEU	206	70.605	2.806	-20.087	1.00	0.00	H
ATOM	3291	HD12 LEU	206	71.755	3.801	-19.222	1.00	0.00	H
ATOM	3292	HD13 LEU	206	70.310	3.219	-18.402	1.00	0.00	H
ATOM	3293	HD21 LEU	206	68.346	3.673	-20.770	1.00	0.00	H
ATOM	3294	HD22 LEU	206	67.946	4.165	-19.130	1.00	0.00	H
ATOM	3295	HD23 LEU	206	67.883	5.332	-20.445	1.00	0.00	H
ATOM	3296	N MET	207	73.235	6.067	-19.958	1.00	69.45	N

ATOM	3297	CA	MET	207	74.625	5.598	-19.929	1.00	69.45	C
ATOM	3298	C	MET	207	75.621	6.742	-19.650	1.00	69.45	C
ATOM	3299	O	MET	207	76.692	6.492	-19.102	1.00	69.45	O
ATOM	3300	CB	MET	207	74.987	4.891	-21.253	1.00	69.45	C
ATOM	3301	CG	MET	207	74.518	3.426	-21.282	1.00	69.45	C
ATOM	3302	SD	MET	207	75.180	2.430	-22.647	1.00	69.45	S
ATOM	3303	CE	MET	207	74.218	3.077	-24.039	1.00	69.45	C
ATOM	3304	H	MET	207	72.771	6.102	-20.858	1.00	0.00	H
ATOM	3305	HA	MET	207	74.736	4.887	-19.109	1.00	0.00	H
ATOM	3306	HB2	MET	207	74.600	5.443	-22.109	1.00	0.00	H
ATOM	3307	HB3	MET	207	76.073	4.884	-21.373	1.00	0.00	H
ATOM	3308	HG2	MET	207	74.838	2.932	-20.364	1.00	0.00	H
ATOM	3309	HG3	MET	207	73.430	3.370	-21.290	1.00	0.00	H
ATOM	3310	HE1	MET	207	74.487	2.554	-24.956	1.00	0.00	H
ATOM	3311	HE2	MET	207	73.152	2.938	-23.863	1.00	0.00	H
ATOM	3312	HE3	MET	207	74.417	4.138	-24.179	1.00	0.00	H
ATOM	3313	N	PHE	208	75.253	7.996	-19.945	1.00	86.53	N
ATOM	3314	CA	PHE	208	75.961	9.183	-19.465	1.00	86.53	C
ATOM	3315	C	PHE	208	75.601	9.428	-17.983	1.00	86.53	C
ATOM	3316	O	PHE	208	76.492	9.548	-17.141	1.00	86.53	O
ATOM	3317	CB	PHE	208	75.556	10.392	-20.340	1.00	86.53	C
ATOM	3318	CG	PHE	208	76.206	11.721	-19.987	1.00	86.53	C
ATOM	3319	CD1	PHE	208	77.595	11.896	-20.162	1.00	86.53	C
ATOM	3320	CD2	PHE	208	75.422	12.791	-19.503	1.00	86.53	C
ATOM	3321	CE1	PHE	208	78.195	13.133	-19.860	1.00	86.53	C
ATOM	3322	CE2	PHE	208	76.023	14.030	-19.207	1.00	86.53	C
ATOM	3323	CZ	PHE	208	77.409	14.201	-19.386	1.00	86.53	C
ATOM	3324	H	PHE	208	74.416	8.121	-20.500	1.00	0.00	H
ATOM	3325	HA	PHE	208	77.039	9.028	-19.545	1.00	0.00	H
ATOM	3326	HB2	PHE	208	75.806	10.175	-21.379	1.00	0.00	H
ATOM	3327	HB3	PHE	208	74.476	10.526	-20.332	1.00	0.00	H
ATOM	3328	HD1	PHE	208	78.203	11.085	-20.537	1.00	0.00	H
ATOM	3329	HD2	PHE	208	74.357	12.674	-19.366	1.00	0.00	H
ATOM	3330	HE1	PHE	208	79.258	13.265	-20.000	1.00	0.00	H
ATOM	3331	HE2	PHE	208	75.418	14.852	-18.849	1.00	0.00	H
ATOM	3332	HZ	PHE	208	77.869	15.153	-19.164	1.00	0.00	H
ATOM	3333	N	TRP	209	74.299	9.423	-17.650	1.00	175.14	N
ATOM	3334	CA	TRP	209	73.725	9.685	-16.323	1.00	175.14	C
ATOM	3335	C	TRP	209	74.353	8.837	-15.207	1.00	175.14	C
ATOM	3336	O	TRP	209	74.764	9.369	-14.176	1.00	175.14	O
ATOM	3337	CB	TRP	209	72.202	9.453	-16.373	1.00	175.14	C
ATOM	3338	CG	TRP	209	71.355	10.175	-15.377	1.00	175.14	C
ATOM	3339	CD2	TRP	209	70.519	11.343	-15.616	1.00	175.14	C
ATOM	3340	CD1	TRP	209	71.162	9.833	-14.083	1.00	175.14	C
ATOM	3341	NE1	TRP	209	70.280	10.724	-13.502	1.00	175.14	N
ATOM	3342	CE2	TRP	209	69.845	11.672	-14.403	1.00	175.14	C
ATOM	3343	CE3	TRP	209	70.253	12.155	-16.743	1.00	175.14	C
ATOM	3344	CZ2	TRP	209	68.960	12.758	-14.311	1.00	175.14	C
ATOM	3345	CZ3	TRP	209	69.365	13.245	-16.663	1.00	175.14	C
ATOM	3346	CH2	TRP	209	68.724	13.552	-15.448	1.00	175.14	C
ATOM	3347	H	TRP	209	73.638	9.318	-18.414	1.00	0.00	H
ATOM	3348	HA	TRP	209	73.915	10.737	-16.104	1.00	0.00	H
ATOM	3349	HB2	TRP	209	71.814	9.763	-17.338	1.00	0.00	H
ATOM	3350	HB3	TRP	209	71.975	8.390	-16.286	1.00	0.00	H
ATOM	3351	HD1	TRP	209	71.633	8.991	-13.595	1.00	0.00	H
ATOM	3352	HE1	TRP	209	69.986	10.665	-12.534	1.00	0.00	H

ATOM	3353	HE3 TRP	209	70.744	11.938	-17.681	1.00	0.00		H
ATOM	3354	HZ2 TRP	209	68.465	12.978	-13.379	1.00	0.00		H
ATOM	3355	HZ3 TRP	209	69.191	13.856	-17.535	1.00	0.00		H
ATOM	3356	HH2 TRP	209	68.051	14.395	-15.386	1.00	0.00		H
ATOM	3357	N ILE	210	74.469	7.520	-15.435	1.00	97.82		N
ATOM	3358	CA ILE	210	75.013	6.543	-14.491	1.00	97.82		C
ATOM	3359	C ILE	210	76.485	6.838	-14.109	1.00	97.82		C
ATOM	3360	O ILE	210	76.903	6.557	-12.983	1.00	97.82		O
ATOM	3361	CB ILE	210	74.801	5.109	-15.067	1.00	97.82		C
ATOM	3362	CG2 ILE	210	75.698	4.811	-16.283	1.00	97.82		C
ATOM	3363	CG1 ILE	210	74.926	4.006	-13.992	1.00	97.82		C
ATOM	3364	CD1 ILE	210	74.570	2.597	-14.490	1.00	97.82		C
ATOM	3365	H ILE	210	74.105	7.165	-16.318	1.00	0.00		H
ATOM	3366	HA ILE	210	74.410	6.648	-13.590	1.00	0.00		H
ATOM	3367	HB ILE	210	73.770	5.068	-15.422	1.00	0.00		H
ATOM	3368	HG21 ILE	210	75.361	3.929	-16.828	1.00	0.00		H
ATOM	3369	HG22 ILE	210	75.675	5.640	-16.984	1.00	0.00		H
ATOM	3370	HG23 ILE	210	76.738	4.650	-16.000	1.00	0.00		H
ATOM	3371	HG12 ILE	210	75.931	3.994	-13.569	1.00	0.00		H
ATOM	3372	HG13 ILE	210	74.248	4.237	-13.171	1.00	0.00		H
ATOM	3373	HD11 ILE	210	74.569	1.884	-13.664	1.00	0.00		H
ATOM	3374	HD12 ILE	210	73.579	2.575	-14.945	1.00	0.00		H
ATOM	3375	HD13 ILE	210	75.287	2.234	-15.226	1.00	0.00		H
ATOM	3376	N GLY	211	77.242	7.485	-15.005	1.00	30.55		N
ATOM	3377	CA GLY	211	78.671	7.735	-14.857	1.00	30.55		C
ATOM	3378	C GLY	211	78.961	9.138	-14.320	1.00	30.55		C
ATOM	3379	O GLY	211	80.053	9.371	-13.809	1.00	30.55		O
ATOM	3380	H GLY	211	76.814	7.768	-15.880	1.00	0.00		H
ATOM	3381	HA2 GLY	211	79.145	6.988	-14.219	1.00	0.00		H
ATOM	3382	HA3 GLY	211	79.137	7.646	-15.838	1.00	0.00		H
ATOM	3383	N VAL	212	77.982	10.050	-14.362	1.00	63.11		N
ATOM	3384	CA VAL	212	78.063	11.364	-13.728	1.00	63.11		C
ATOM	3385	C VAL	212	77.407	11.310	-12.331	1.00	63.11		C
ATOM	3386	O VAL	212	77.908	11.946	-11.404	1.00	63.11		O
ATOM	3387	CB VAL	212	77.348	12.408	-14.636	1.00	63.11		C
ATOM	3388	CG1 VAL	212	77.310	13.826	-14.027	1.00	63.11		C
ATOM	3389	CG2 VAL	212	78.006	12.489	-16.028	1.00	63.11		C
ATOM	3390	H VAL	212	77.137	9.810	-14.865	1.00	0.00		H
ATOM	3391	HA VAL	212	79.104	11.668	-13.601	1.00	0.00		H
ATOM	3392	HB VAL	212	76.315	12.085	-14.782	1.00	0.00		H
ATOM	3393	HG11 VAL	212	76.920	14.555	-14.737	1.00	0.00		H
ATOM	3394	HG12 VAL	212	76.671	13.873	-13.147	1.00	0.00		H
ATOM	3395	HG13 VAL	212	78.307	14.157	-13.735	1.00	0.00		H
ATOM	3396	HG21 VAL	212	77.485	13.197	-16.671	1.00	0.00		H
ATOM	3397	HG22 VAL	212	79.046	12.809	-15.958	1.00	0.00		H
ATOM	3398	HG23 VAL	212	77.997	11.533	-16.549	1.00	0.00		H
ATOM	3399	N THR	213	76.291	10.582	-12.162	1.00	229.72		N
ATOM	3400	CA THR	213	75.414	10.707	-10.998	1.00	229.72		C
ATOM	3401	C THR	213	74.813	9.357	-10.540	1.00	229.72		C
ATOM	3402	O THR	213	73.677	9.287	-10.080	1.00	229.72		O
ATOM	3403	CB THR	213	74.480	11.943	-11.177	1.00	229.72		C
ATOM	3404	OG1 THR	213	73.887	12.352	-9.962	1.00	229.72		O
ATOM	3405	CG2 THR	213	73.365	11.749	-12.213	1.00	229.72		C
ATOM	3406	H THR	213	75.892	10.103	-12.967	1.00	0.00		H
ATOM	3407	HA THR	213	76.048	10.960	-10.145	1.00	0.00		H
ATOM	3408	HB THR	213	75.084	12.790	-11.499	1.00	0.00		H

ATOM	3409	HG1 THR	213	73.366	13.120	-10.130	1.00	0.00	H
ATOM	3410	HG21 THR	213	72.723	12.624	-12.279	1.00	0.00	H
ATOM	3411	HG22 THR	213	73.773	11.576	-13.208	1.00	0.00	H
ATOM	3412	HG23 THR	213	72.730	10.900	-11.962	1.00	0.00	H
ATOM	3413	N SER	214	75.585	8.263	-10.622	1.00	186.11	N
ATOM	3414	CA SER	214	75.257	7.000	-9.948	1.00	186.11	C
ATOM	3415	C SER	214	76.518	6.343	-9.374	1.00	186.11	C
ATOM	3416	O SER	214	76.530	5.955	-8.205	1.00	186.11	O
ATOM	3417	CB SER	214	74.340	6.102	-10.800	1.00	186.11	C
ATOM	3418	OG SER	214	73.818	5.010	-10.066	1.00	186.11	O
ATOM	3419	H SER	214	76.469	8.340	-11.101	1.00	0.00	H
ATOM	3420	HA SER	214	74.671	7.254	-9.061	1.00	0.00	H
ATOM	3421	HB2 SER	214	73.507	6.680	-11.203	1.00	0.00	H
ATOM	3422	HB3 SER	214	74.905	5.703	-11.636	1.00	0.00	H
ATOM	3423	HG SER	214	73.150	4.580	-10.583	1.00	0.00	H
ATOM	3424	N VAL	215	77.640	6.339	-10.113	1.00	127.78	N
ATOM	3425	CA VAL	215	78.955	5.923	-9.598	1.00	127.78	C
ATOM	3426	C VAL	215	79.425	6.750	-8.377	1.00	127.78	C
ATOM	3427	O VAL	215	80.150	6.242	-7.525	1.00	127.78	O
ATOM	3428	CB VAL	215	80.011	5.929	-10.731	1.00	127.78	C
ATOM	3429	CG1 VAL	215	79.733	4.834	-11.776	1.00	127.78	C
ATOM	3430	CG2 VAL	215	80.178	7.304	-11.403	1.00	127.78	C
ATOM	3431	H VAL	215	77.565	6.539	-11.107	1.00	0.00	H
ATOM	3432	HA VAL	215	78.849	4.898	-9.240	1.00	0.00	H
ATOM	3433	HB VAL	215	80.974	5.679	-10.280	1.00	0.00	H
ATOM	3434	HG11 VAL	215	80.519	4.804	-12.532	1.00	0.00	H
ATOM	3435	HG12 VAL	215	79.693	3.848	-11.313	1.00	0.00	H
ATOM	3436	HG13 VAL	215	78.789	4.988	-12.296	1.00	0.00	H
ATOM	3437	HG21 VAL	215	80.917	7.262	-12.204	1.00	0.00	H
ATOM	3438	HG22 VAL	215	79.244	7.656	-11.838	1.00	0.00	H
ATOM	3439	HG23 VAL	215	80.521	8.065	-10.701	1.00	0.00	H
ATOM	3440	N LEU	216	78.948	7.997	-8.240	1.00	160.91	N
ATOM	3441	CA LEU	216	79.189	8.838	-7.069	1.00	160.91	C
ATOM	3442	C LEU	216	78.371	8.355	-5.852	1.00	160.91	C
ATOM	3443	O LEU	216	78.828	8.502	-4.721	1.00	160.91	O
ATOM	3444	CB LEU	216	78.820	10.300	-7.403	1.00	160.91	C
ATOM	3445	CG LEU	216	79.303	11.341	-6.364	1.00	160.91	C
ATOM	3446	CD1 LEU	216	80.838	11.426	-6.288	1.00	160.91	C
ATOM	3447	CD2 LEU	216	78.719	12.718	-6.682	1.00	160.91	C
ATOM	3448	H LEU	216	78.368	8.357	-8.981	1.00	0.00	H
ATOM	3449	HA LEU	216	80.251	8.775	-6.835	1.00	0.00	H
ATOM	3450	HB2 LEU	216	79.238	10.567	-8.376	1.00	0.00	H
ATOM	3451	HB3 LEU	216	77.737	10.380	-7.520	1.00	0.00	H
ATOM	3452	HG LEU	216	78.930	11.069	-5.375	1.00	0.00	H
ATOM	3453	HD11 LEU	216	81.154	12.243	-5.641	1.00	0.00	H
ATOM	3454	HD12 LEU	216	81.281	10.518	-5.882	1.00	0.00	H
ATOM	3455	HD13 LEU	216	81.277	11.605	-7.270	1.00	0.00	H
ATOM	3456	HD21 LEU	216	79.003	13.450	-5.926	1.00	0.00	H
ATOM	3457	HD22 LEU	216	79.074	13.069	-7.650	1.00	0.00	H
ATOM	3458	HD23 LEU	216	77.631	12.691	-6.712	1.00	0.00	H
ATOM	3459	N LEU	217	77.208	7.721	-6.071	1.00	149.15	N
ATOM	3460	CA LEU	217	76.380	7.103	-5.032	1.00	149.15	C
ATOM	3461	C LEU	217	77.102	5.843	-4.508	1.00	149.15	C
ATOM	3462	O LEU	217	77.185	5.633	-3.298	1.00	149.15	O
ATOM	3463	CB LEU	217	74.989	6.745	-5.615	1.00	149.15	C
ATOM	3464	CG LEU	217	73.803	6.892	-4.632	1.00	149.15	C

ATOM	3465	CD1 LEU	217	72.469	6.742	-5.380	1.00149.15	C
ATOM	3466	CD2 LEU	217	73.858	5.909	-3.450	1.00149.15	C
ATOM	3467	H LEU	217	76.957	7.505	-7.027	1.00 0.00	H
ATOM	3468	HA LEU	217	76.245	7.827	-4.230	1.00 0.00	H
ATOM	3469	HB2 LEU	217	74.786	7.410	-6.456	1.00 0.00	H
ATOM	3470	HB3 LEU	217	74.989	5.741	-6.045	1.00 0.00	H
ATOM	3471	HG LEU	217	73.826	7.904	-4.225	1.00 0.00	H
ATOM	3472	HD11 LEU	217	71.619	6.901	-4.716	1.00 0.00	H
ATOM	3473	HD12 LEU	217	72.387	7.468	-6.188	1.00 0.00	H
ATOM	3474	HD13 LEU	217	72.367	5.749	-5.819	1.00 0.00	H
ATOM	3475	HD21 LEU	217	72.956	5.976	-2.840	1.00 0.00	H
ATOM	3476	HD22 LEU	217	73.946	4.877	-3.793	1.00 0.00	H
ATOM	3477	HD23 LEU	217	74.698	6.118	-2.790	1.00 0.00	H
ATOM	3478	N LEU	218	77.720	5.066	-5.413	1.00 48.39	N
ATOM	3479	CA LEU	218	78.596	3.938	-5.080	1.00 48.39	C
ATOM	3480	C LEU	218	79.861	4.412	-4.331	1.00 48.39	C
ATOM	3481	O LEU	218	80.286	3.778	-3.364	1.00 48.39	O
ATOM	3482	CB LEU	218	78.996	3.161	-6.355	1.00 48.39	C
ATOM	3483	CG LEU	218	77.826	2.648	-7.227	1.00 48.39	C
ATOM	3484	CD1 LEU	218	78.358	1.929	-8.477	1.00 48.39	C
ATOM	3485	CD2 LEU	218	76.865	1.727	-6.455	1.00 48.39	C
ATOM	3486	H LEU	218	77.571	5.284	-6.390	1.00 0.00	H
ATOM	3487	HA LEU	218	78.050	3.263	-4.423	1.00 0.00	H
ATOM	3488	HB2 LEU	218	79.647	3.781	-6.972	1.00 0.00	H
ATOM	3489	HB3 LEU	218	79.611	2.308	-6.060	1.00 0.00	H
ATOM	3490	HG LEU	218	77.249	3.504	-7.576	1.00 0.00	H
ATOM	3491	HD11 LEU	218	77.542	1.635	-9.138	1.00 0.00	H
ATOM	3492	HD12 LEU	218	79.028	2.566	-9.054	1.00 0.00	H
ATOM	3493	HD13 LEU	218	78.910	1.026	-8.213	1.00 0.00	H
ATOM	3494	HD21 LEU	218	76.082	1.345	-7.110	1.00 0.00	H
ATOM	3495	HD22 LEU	218	77.387	0.869	-6.030	1.00 0.00	H
ATOM	3496	HD23 LEU	218	76.365	2.255	-5.643	1.00 0.00	H
ATOM	3497	N PHE	219	80.431	5.558	-4.731	1.00 84.76	N
ATOM	3498	CA PHE	219	81.590	6.178	-4.091	1.00 84.76	C
ATOM	3499	C PHE	219	81.309	6.575	-2.630	1.00 84.76	C
ATOM	3500	O PHE	219	82.117	6.252	-1.764	1.00 84.76	O
ATOM	3501	CB PHE	219	82.081	7.397	-4.902	1.00 84.76	C
ATOM	3502	CG PHE	219	83.360	8.032	-4.377	1.00 84.76	C
ATOM	3503	CD1 PHE	219	84.611	7.461	-4.690	1.00 84.76	C
ATOM	3504	CD2 PHE	219	83.299	9.171	-3.544	1.00 84.76	C
ATOM	3505	CE1 PHE	219	85.793	8.020	-4.167	1.00 84.76	C
ATOM	3506	CE2 PHE	219	84.481	9.723	-3.014	1.00 84.76	C
ATOM	3507	CZ PHE	219	85.728	9.149	-3.327	1.00 84.76	C
ATOM	3508	H PHE	219	80.081	5.974	-5.588	1.00 0.00	H
ATOM	3509	HA PHE	219	82.390	5.435	-4.086	1.00 0.00	H
ATOM	3510	HB2 PHE	219	82.247	7.108	-5.940	1.00 0.00	H
ATOM	3511	HB3 PHE	219	81.313	8.166	-4.922	1.00 0.00	H
ATOM	3512	HD1 PHE	219	84.669	6.588	-5.325	1.00 0.00	H
ATOM	3513	HD2 PHE	219	82.344	9.612	-3.295	1.00 0.00	H
ATOM	3514	HE1 PHE	219	86.749	7.578	-4.408	1.00 0.00	H
ATOM	3515	HE2 PHE	219	84.430	10.584	-2.364	1.00 0.00	H
ATOM	3516	HZ PHE	219	86.637	9.570	-2.922	1.00 0.00	H
ATOM	3517	N ILE	220	80.187	7.246	-2.322	1.00116.48	N
ATOM	3518	CA ILE	220	79.896	7.702	-0.955	1.00116.48	C
ATOM	3519	C ILE	220	79.624	6.540	0.027	1.00116.48	C
ATOM	3520	O ILE	220	80.005	6.649	1.195	1.00116.48	O

ATOM	3521	CB	ILE	220	78.763	8.768	-0.929	1.00116.48	C
ATOM	3522	CG2	ILE	220	79.252	10.079	-1.577	1.00116.48	C
ATOM	3523	CG1	ILE	220	77.436	8.283	-1.550	1.00116.48	C
ATOM	3524	CD1	ILE	220	76.263	9.267	-1.452	1.00116.48	C
ATOM	3525	H	ILE	220	79.549	7.505	-3.068	1.00 0.00	H
ATOM	3526	HA	ILE	220	80.799	8.191	-0.583	1.00 0.00	H
ATOM	3527	HB	ILE	220	78.563	8.996	0.120	1.00 0.00	H
ATOM	3528	HG21	ILE	220	78.530	10.885	-1.454	1.00 0.00	H
ATOM	3529	HG22	ILE	220	80.182	10.417	-1.121	1.00 0.00	H
ATOM	3530	HG23	ILE	220	79.434	9.963	-2.645	1.00 0.00	H
ATOM	3531	HG12	ILE	220	77.612	8.062	-2.594	1.00 0.00	H
ATOM	3532	HG13	ILE	220	77.126	7.342	-1.096	1.00 0.00	H
ATOM	3533	HD11	ILE	220	75.353	8.817	-1.850	1.00 0.00	H
ATOM	3534	HD12	ILE	220	76.065	9.548	-0.419	1.00 0.00	H
ATOM	3535	HD13	ILE	220	76.446	10.177	-2.024	1.00 0.00	H
ATOM	3536	N	VAL	221	79.033	5.417	-0.419	1.00103.92	N
ATOM	3537	CA	VAL	221	78.872	4.230	0.430	1.00103.92	C
ATOM	3538	C	VAL	221	80.212	3.477	0.585	1.00103.92	C
ATOM	3539	O	VAL	221	80.499	2.985	1.676	1.00103.92	O
ATOM	3540	CB	VAL	221	77.737	3.299	-0.079	1.00103.92	C
ATOM	3541	CG1	VAL	221	76.366	3.998	-0.020	1.00103.92	C
ATOM	3542	CG2	VAL	221	77.951	2.698	-1.476	1.00103.92	C
ATOM	3543	H	VAL	221	78.725	5.369	-1.384	1.00 0.00	H
ATOM	3544	HA	VAL	221	78.587	4.559	1.429	1.00 0.00	H
ATOM	3545	HB	VAL	221	77.686	2.457	0.614	1.00 0.00	H
ATOM	3546	HG11	VAL	221	75.565	3.313	-0.299	1.00 0.00	H
ATOM	3547	HG12	VAL	221	76.145	4.356	0.984	1.00 0.00	H
ATOM	3548	HG13	VAL	221	76.316	4.850	-0.698	1.00 0.00	H
ATOM	3549	HG21	VAL	221	77.139	2.021	-1.743	1.00 0.00	H
ATOM	3550	HG22	VAL	221	77.971	3.483	-2.223	1.00 0.00	H
ATOM	3551	HG23	VAL	221	78.878	2.130	-1.553	1.00 0.00	H
ATOM	3552	N	TYR	222	81.066	3.463	-0.450	1.00 53.42	N
ATOM	3553	CA	TYR	222	82.435	2.939	-0.400	1.00 53.42	C
ATOM	3554	C	TYR	222	83.310	3.792	0.542	1.00 53.42	C
ATOM	3555	O	TYR	222	83.971	3.259	1.430	1.00 53.42	O
ATOM	3556	CB	TYR	222	83.016	2.890	-1.831	1.00 53.42	C
ATOM	3557	CG	TYR	222	84.448	2.391	-1.945	1.00 53.42	C
ATOM	3558	CD1	TYR	222	84.762	1.057	-1.612	1.00 53.42	C
ATOM	3559	CD2	TYR	222	85.471	3.262	-2.376	1.00 53.42	C
ATOM	3560	CE1	TYR	222	86.091	0.600	-1.689	1.00 53.42	C
ATOM	3561	CE2	TYR	222	86.800	2.804	-2.458	1.00 53.42	C
ATOM	3562	CZ	TYR	222	87.112	1.477	-2.104	1.00 53.42	C
ATOM	3563	OH	TYR	222	88.409	1.060	-2.134	1.00 53.42	O
ATOM	3564	H	TYR	222	80.750	3.850	-1.334	1.00 0.00	H
ATOM	3565	HA	TYR	222	82.402	1.924	-0.002	1.00 0.00	H
ATOM	3566	HB2	TYR	222	82.396	2.239	-2.448	1.00 0.00	H
ATOM	3567	HB3	TYR	222	82.955	3.873	-2.295	1.00 0.00	H
ATOM	3568	HD1	TYR	222	83.988	0.377	-1.282	1.00 0.00	H
ATOM	3569	HD2	TYR	222	85.247	4.286	-2.639	1.00 0.00	H
ATOM	3570	HE1	TYR	222	86.315	-0.420	-1.410	1.00 0.00	H
ATOM	3571	HE2	TYR	222	87.583	3.475	-2.779	1.00 0.00	H
ATOM	3572	HH	TYR	222	88.490	0.121	-2.243	1.00 0.00	H
ATOM	3573	N	ALA	223	83.238	5.127	0.439	1.00 31.10	N
ATOM	3574	CA	ALA	223	83.931	6.079	1.309	1.00 31.10	C
ATOM	3575	C	ALA	223	83.479	5.965	2.775	1.00 31.10	C
ATOM	3576	O	ALA	223	84.282	6.168	3.687	1.00 31.10	O

ATOM	3577	CB	ALA	223	83.687	7.508	0.802	1.00	31.10	C
ATOM	3578	H	ALA	223	82.711	5.507	-0.349	1.00	0.00	H
ATOM	3579	HA	ALA	223	85.000	5.868	1.261	1.00	0.00	H
ATOM	3580	HB1	ALA	223	84.232	8.235	1.405	1.00	0.00	H
ATOM	3581	HB2	ALA	223	84.023	7.622	-0.230	1.00	0.00	H
ATOM	3582	HB3	ALA	223	82.630	7.771	0.841	1.00	0.00	H
ATOM	3583	N	TYR	224	82.213	5.585	3.012	1.00	59.45	N
ATOM	3584	CA	TYR	224	81.687	5.295	4.343	1.00	59.45	C
ATOM	3585	C	TYR	224	82.336	4.049	4.975	1.00	59.45	C
ATOM	3586	O	TYR	224	82.455	4.015	6.198	1.00	59.45	O
ATOM	3587	CB	TYR	224	80.143	5.175	4.333	1.00	59.45	C
ATOM	3588	CG	TYR	224	79.499	4.958	5.702	1.00	59.45	C
ATOM	3589	CD1	TYR	224	79.872	5.757	6.805	1.00	59.45	C
ATOM	3590	CD2	TYR	224	78.563	3.918	5.891	1.00	59.45	C
ATOM	3591	CE1	TYR	224	79.355	5.489	8.085	1.00	59.45	C
ATOM	3592	CE2	TYR	224	78.011	3.679	7.166	1.00	59.45	C
ATOM	3593	CZ	TYR	224	78.416	4.459	8.265	1.00	59.45	C
ATOM	3594	OH	TYR	224	77.905	4.221	9.507	1.00	59.45	O
ATOM	3595	H	TYR	224	81.601	5.458	2.214	1.00	0.00	H
ATOM	3596	HA	TYR	224	81.951	6.143	4.969	1.00	0.00	H
ATOM	3597	HB2	TYR	224	79.711	6.079	3.905	1.00	0.00	H
ATOM	3598	HB3	TYR	224	79.844	4.361	3.675	1.00	0.00	H
ATOM	3599	HD1	TYR	224	80.587	6.557	6.689	1.00	0.00	H
ATOM	3600	HD2	TYR	224	78.273	3.289	5.061	1.00	0.00	H
ATOM	3601	HE1	TYR	224	79.683	6.083	8.925	1.00	0.00	H
ATOM	3602	HE2	TYR	224	77.305	2.871	7.294	1.00	0.00	H
ATOM	3603	HH	TYR	224	78.592	4.334	10.181	1.00	0.00	H
ATOM	3604	N	MET	225	82.847	3.082	4.194	1.00	38.97	N
ATOM	3605	CA	MET	225	83.565	1.909	4.713	1.00	38.97	C
ATOM	3606	C	MET	225	84.843	2.342	5.452	1.00	38.97	C
ATOM	3607	O	MET	225	85.085	1.893	6.569	1.00	38.97	O
ATOM	3608	CB	MET	225	83.928	0.918	3.587	1.00	38.97	C
ATOM	3609	CG	MET	225	82.720	0.379	2.808	1.00	38.97	C
ATOM	3610	SD	MET	225	83.179	-0.709	1.436	1.00	38.97	S
ATOM	3611	CE	MET	225	81.540	-1.063	0.748	1.00	38.97	C
ATOM	3612	H	MET	225	82.784	3.184	3.186	1.00	0.00	H
ATOM	3613	HA	MET	225	82.915	1.400	5.428	1.00	0.00	H
ATOM	3614	HB2	MET	225	84.638	1.369	2.894	1.00	0.00	H
ATOM	3615	HB3	MET	225	84.458	0.068	4.020	1.00	0.00	H
ATOM	3616	HG2	MET	225	82.053	-0.164	3.479	1.00	0.00	H
ATOM	3617	HG3	MET	225	82.145	1.203	2.393	1.00	0.00	H
ATOM	3618	HE1	MET	225	81.632	-1.710	-0.125	1.00	0.00	H
ATOM	3619	HE2	MET	225	80.916	-1.569	1.485	1.00	0.00	H
ATOM	3620	HE3	MET	225	81.041	-0.143	0.443	1.00	0.00	H
ATOM	3621	N	TYR	226	85.587	3.302	4.884	1.00	107.42	N
ATOM	3622	CA	TYR	226	86.800	3.884	5.466	1.00	107.42	C
ATOM	3623	C	TYR	226	86.505	4.741	6.710	1.00	107.42	C
ATOM	3624	O	TYR	226	87.352	4.847	7.595	1.00	107.42	O
ATOM	3625	CB	TYR	226	87.493	4.788	4.430	1.00	107.42	C
ATOM	3626	CG	TYR	226	88.120	4.055	3.262	1.00	107.42	C
ATOM	3627	CD1	TYR	226	87.355	3.779	2.111	1.00	107.42	C
ATOM	3628	CD2	TYR	226	89.472	3.656	3.315	1.00	107.42	C
ATOM	3629	CE1	TYR	226	87.937	3.110	1.019	1.00	107.42	C
ATOM	3630	CE2	TYR	226	90.055	2.997	2.215	1.00	107.42	C
ATOM	3631	CZ	TYR	226	89.291	2.725	1.065	1.00	107.42	C
ATOM	3632	OH	TYR	226	89.876	2.096	0.007	1.00	107.42	O

ATOM	3633	H	TYR	226	85.312	3.610	3.962	1.00	0.00		H
ATOM	3634	HA	TYR	226	87.483	3.080	5.747	1.00	0.00		H
ATOM	3635	HB2	TYR	226	86.796	5.533	4.045	1.00	0.00		H
ATOM	3636	HB3	TYR	226	88.286	5.358	4.916	1.00	0.00		H
ATOM	3637	HD1	TYR	226	86.318	4.069	2.053	1.00	0.00		H
ATOM	3638	HD2	TYR	226	90.074	3.850	4.192	1.00	0.00		H
ATOM	3639	HE1	TYR	226	87.330	2.900	0.155	1.00	0.00		H
ATOM	3640	HE2	TYR	226	91.091	2.691	2.252	1.00	0.00		H
ATOM	3641	HH	TYR	226	89.290	1.873	-0.717	1.00	0.00		H
ATOM	3642	N	ILE	227	85.313	5.348	6.788	1.00	84.52		N
ATOM	3643	CA	ILE	227	84.855	6.123	7.942	1.00	84.52		C
ATOM	3644	C	ILE	227	84.365	5.154	9.040	1.00	84.52		C
ATOM	3645	O	ILE	227	84.688	5.361	10.206	1.00	84.52		O
ATOM	3646	CB	ILE	227	83.742	7.119	7.489	1.00	84.52		C
ATOM	3647	CG2	ILE	227	83.038	7.832	8.667	1.00	84.52		C
ATOM	3648	CG1	ILE	227	84.316	8.174	6.507	1.00	84.52		C
ATOM	3649	CD1	ILE	227	83.260	8.908	5.667	1.00	84.52		C
ATOM	3650	H	ILE	227	84.670	5.201	6.022	1.00	0.00		H
ATOM	3651	HA	ILE	227	85.691	6.693	8.354	1.00	0.00		H
ATOM	3652	HB	ILE	227	82.983	6.541	6.966	1.00	0.00		H
ATOM	3653	HG21	ILE	227	82.287	8.542	8.325	1.00	0.00		H
ATOM	3654	HG22	ILE	227	82.515	7.129	9.316	1.00	0.00		H
ATOM	3655	HG23	ILE	227	83.755	8.377	9.283	1.00	0.00		H
ATOM	3656	HG12	ILE	227	84.914	8.900	7.061	1.00	0.00		H
ATOM	3657	HG13	ILE	227	85.010	7.708	5.807	1.00	0.00		H
ATOM	3658	HD11	ILE	227	83.732	9.663	5.039	1.00	0.00		H
ATOM	3659	HD12	ILE	227	82.740	8.225	4.997	1.00	0.00		H
ATOM	3660	HD13	ILE	227	82.510	9.408	6.277	1.00	0.00		H
ATOM	3661	N	LEU	228	83.644	4.079	8.681	1.00	60.31		N
ATOM	3662	CA	LEU	228	83.180	3.016	9.578	1.00	60.31		C
ATOM	3663	C	LEU	228	84.370	2.282	10.228	1.00	60.31		C
ATOM	3664	O	LEU	228	84.395	2.088	11.440	1.00	60.31		O
ATOM	3665	CB	LEU	228	82.262	2.054	8.787	1.00	60.31		C
ATOM	3666	CG	LEU	228	81.591	0.922	9.600	1.00	60.31		C
ATOM	3667	CD1	LEU	228	80.628	1.456	10.672	1.00	60.31		C
ATOM	3668	CD2	LEU	228	80.856	-0.044	8.658	1.00	60.31		C
ATOM	3669	H	LEU	228	83.375	3.993	7.702	1.00	0.00		H
ATOM	3670	HA	LEU	228	82.597	3.495	10.360	1.00	0.00		H
ATOM	3671	HB2	LEU	228	81.478	2.636	8.298	1.00	0.00		H
ATOM	3672	HB3	LEU	228	82.839	1.606	7.978	1.00	0.00		H
ATOM	3673	HG	LEU	228	82.366	0.341	10.103	1.00	0.00		H
ATOM	3674	HD11	LEU	228	80.152	0.638	11.213	1.00	0.00		H
ATOM	3675	HD12	LEU	228	81.151	2.064	11.409	1.00	0.00		H
ATOM	3676	HD13	LEU	228	79.838	2.064	10.231	1.00	0.00		H
ATOM	3677	HD21	LEU	228	80.409	-0.872	9.209	1.00	0.00		H
ATOM	3678	HD22	LEU	228	80.058	0.461	8.111	1.00	0.00		H
ATOM	3679	HD23	LEU	228	81.537	-0.476	7.924	1.00	0.00		H
ATOM	3680	N	TRP	229	85.407	2.001	9.429	1.00	104.06		N
ATOM	3681	CA	TRP	229	86.738	1.499	9.792	1.00	104.06		C
ATOM	3682	C	TRP	229	87.521	2.420	10.759	1.00	104.06		C
ATOM	3683	O	TRP	229	88.572	2.018	11.259	1.00	104.06		O
ATOM	3684	CB	TRP	229	87.488	1.278	8.453	1.00	104.06		C
ATOM	3685	CG	TRP	229	88.987	1.204	8.371	1.00	104.06		C
ATOM	3686	CD2	TRP	229	89.902	0.133	8.760	1.00	104.06		C
ATOM	3687	CD1	TRP	229	89.762	2.154	7.802	1.00	104.06		C
ATOM	3688	NE1	TRP	229	91.082	1.759	7.810	1.00	104.06		N

ATOM	3689	CE2 TRP	229	91.223	0.490	8.338	1.00104.06	C
ATOM	3690	CE3 TRP	229	89.750	-1.118	9.401	1.00104.06	C
ATOM	3691	CZ2 TRP	229	92.325	-0.364	8.515	1.00104.06	C
ATOM	3692	CZ3 TRP	229	90.853	-1.975	9.600	1.00104.06	C
ATOM	3693	CH2 TRP	229	92.135	-1.603	9.152	1.00104.06	C
ATOM	3694	H TRP	229	85.248	2.141	8.434	1.00 0.00	H
ATOM	3695	HA TRP	229	86.622	0.539	10.299	1.00 0.00	H
ATOM	3696	HB2 TRP	229	87.093	0.386	7.965	1.00 0.00	H
ATOM	3697	HB3 TRP	229	87.233	2.103	7.795	1.00 0.00	H
ATOM	3698	HD1 TRP	229	89.383	3.066	7.362	1.00 0.00	H
ATOM	3699	HE1 TRP	229	91.768	2.267	7.248	1.00 0.00	H
ATOM	3700	HE3 TRP	229	88.770	-1.433	9.729	1.00 0.00	H
ATOM	3701	HZ2 TRP	229	93.310	-0.083	8.167	1.00 0.00	H
ATOM	3702	HZ3 TRP	229	90.709	-2.934	10.079	1.00 0.00	H
ATOM	3703	HH2 TRP	229	92.970	-2.277	9.290	1.00 0.00	H
ATOM	3704	N LYS	230	87.050	3.646	11.016	1.00180.19	N
ATOM	3705	CA LYS	230	87.650	4.643	11.903	1.00180.19	C
ATOM	3706	C LYS	230	86.686	5.107	13.013	1.00180.19	C
ATOM	3707	O LYS	230	87.095	5.879	13.878	1.00180.19	O
ATOM	3708	CB LYS	230	88.189	5.823	11.052	1.00180.19	C
ATOM	3709	CG LYS	230	89.725	5.935	10.953	1.00180.19	C
ATOM	3710	CD LYS	230	90.390	4.756	10.220	1.00180.19	C
ATOM	3711	CE LYS	230	91.208	3.833	11.143	1.00180.19	C
ATOM	3712	NZ LYS	230	91.129	2.430	10.710	1.00180.19	N1+
ATOM	3713	H LYS	230	86.184	3.914	10.564	1.00 0.00	H
ATOM	3714	HA LYS	230	88.480	4.199	12.453	1.00 0.00	H
ATOM	3715	HB2 LYS	230	87.757	5.802	10.050	1.00 0.00	H
ATOM	3716	HB3 LYS	230	87.829	6.758	11.474	1.00 0.00	H
ATOM	3717	HG2 LYS	230	89.955	6.848	10.404	1.00 0.00	H
ATOM	3718	HG3 LYS	230	90.157	6.088	11.943	1.00 0.00	H
ATOM	3719	HD2 LYS	230	89.624	4.202	9.678	1.00 0.00	H
ATOM	3720	HD3 LYS	230	91.055	5.142	9.445	1.00 0.00	H
ATOM	3721	HE2 LYS	230	92.250	4.157	11.172	1.00 0.00	H
ATOM	3722	HE3 LYS	230	90.838	3.873	12.168	1.00 0.00	H
ATOM	3723	HZ1 LYS	230	91.766	1.836	11.218	1.00 0.00	H
ATOM	3724	HZ2 LYS	230	90.175	2.109	10.906	1.00 0.00	H
ATOM	3725	HZ3 LYS	230	91.268	2.317	9.708	1.00 0.00	H
ATOM	3726	N ALA	231	85.425	4.657	13.006	1.00 80.15	N
ATOM	3727	CA ALA	231	84.389	4.995	13.971	1.00 80.15	C
ATOM	3728	C ALA	231	83.198	4.068	13.728	1.00 80.15	C
ATOM	3729	O ALA	231	82.494	4.221	12.726	1.00 80.15	O
ATOM	3730	CB ALA	231	83.972	6.475	13.853	1.00 80.15	C
ATOM	3731	H ALA	231	85.155	4.004	12.279	1.00 0.00	H
ATOM	3732	HA ALA	231	84.781	4.819	14.975	1.00 0.00	H
ATOM	3733	HB1 ALA	231	83.110	6.693	14.484	1.00 0.00	H
ATOM	3734	HB2 ALA	231	84.775	7.136	14.173	1.00 0.00	H
ATOM	3735	HB3 ALA	231	83.710	6.734	12.826	1.00 0.00	H
ATOM	3736	N HIS	232	82.960	3.123	14.647	1.00173.73	N
ATOM	3737	CA HIS	232	81.943	2.060	14.605	1.00173.73	C
ATOM	3738	C HIS	232	80.510	2.623	14.748	1.00173.73	C
ATOM	3739	O HIS	232	79.779	2.342	15.697	1.00173.73	O
ATOM	3740	ND1 HIS	232	84.125	-0.451	16.618	1.00173.73	N
ATOM	3741	CG HIS	232	83.623	0.385	15.632	1.00173.73	C
ATOM	3742	CB HIS	232	82.253	1.026	15.714	1.00173.73	C
ATOM	3743	NE2 HIS	232	85.707	-0.321	15.071	1.00173.73	N
ATOM	3744	CD2 HIS	232	84.612	0.442	14.671	1.00173.73	C

ATOM	3745	CE1 HIS	232	85.346	-0.839	16.237	1.00173.73	C
ATOM	3746	H HIS	232	83.623	3.057	15.406	1.00 0.00	H
ATOM	3747	HA HIS	232	82.012	1.556	13.638	1.00 0.00	H
ATOM	3748	HD1 HIS	232	83.667	-0.756	17.466	1.00 0.00	H
ATOM	3749	HB2 HIS	232	82.157	1.495	16.695	1.00 0.00	H
ATOM	3750	HB3 HIS	232	81.514	0.225	15.684	1.00 0.00	H
ATOM	3751	HD2 HIS	232	84.629	0.970	13.728	1.00 0.00	H
ATOM	3752	HE1 HIS	232	85.978	-1.504	16.812	1.00 0.00	H
ATOM	3753	N SER	233	80.139	3.470	13.789	1.00 57.40	N
ATOM	3754	CA SER	233	78.918	4.240	13.594	1.00 57.40	C
ATOM	3755	C SER	233	77.665	3.367	13.346	1.00 57.40	C
ATOM	3756	O SER	233	77.015	3.444	12.300	1.00 57.40	O
ATOM	3757	CB SER	233	79.220	5.272	12.476	1.00 57.40	C
ATOM	3758	OG SER	233	79.850	4.709	11.329	1.00 57.40	O
ATOM	3759	H SER	233	80.875	3.654	13.113	1.00 0.00	H
ATOM	3760	HA SER	233	78.719	4.799	14.510	1.00 0.00	H
ATOM	3761	HB2 SER	233	78.305	5.772	12.167	1.00 0.00	H
ATOM	3762	HB3 SER	233	79.867	6.060	12.866	1.00 0.00	H
ATOM	3763	HG SER	233	80.778	4.593	11.525	1.00 0.00	H
ATOM	3764	N HIS	234	77.325	2.567	14.367	1.00128.70	N
ATOM	3765	CA HIS	234	76.097	1.801	14.613	1.00128.70	C
ATOM	3766	C HIS	234	74.828	2.581	14.211	1.00128.70	C
ATOM	3767	O HIS	234	74.754	3.775	14.486	1.00128.70	O
ATOM	3768	ND1 HIS	234	74.769	0.481	18.041	1.00128.70	N
ATOM	3769	CG HIS	234	74.974	0.579	16.675	1.00128.70	C
ATOM	3770	CB HIS	234	76.120	1.394	16.107	1.00128.70	C
ATOM	3771	NE2 HIS	234	73.193	-0.765	17.111	1.00128.70	N
ATOM	3772	CD2 HIS	234	74.001	-0.218	16.109	1.00128.70	C
ATOM	3773	CE1 HIS	234	73.723	-0.317	18.248	1.00128.70	C
ATOM	3774	H HIS	234	78.020	2.538	15.109	1.00 0.00	H
ATOM	3775	HA HIS	234	76.159	0.900	14.002	1.00 0.00	H
ATOM	3776	HD1 HIS	234	75.345	0.886	18.778	1.00 0.00	H
ATOM	3777	HB2 HIS	234	77.036	0.840	16.316	1.00 0.00	H
ATOM	3778	HB3 HIS	234	76.181	2.305	16.706	1.00 0.00	H
ATOM	3779	HD2 HIS	234	73.823	-0.450	15.068	1.00 0.00	H
ATOM	3780	HE1 HIS	234	73.347	-0.565	19.234	1.00 0.00	H
ATOM	3781	N ALA	235	73.861	1.900	13.570	1.00 66.34	N
ATOM	3782	CA ALA	235	72.650	2.381	12.882	1.00 66.34	C
ATOM	3783	C ALA	235	72.057	3.739	13.300	1.00 66.34	C
ATOM	3784	O ALA	235	71.844	4.600	12.452	1.00 66.34	O
ATOM	3785	CB ALA	235	71.599	1.263	12.834	1.00 66.34	C
ATOM	3786	H ALA	235	74.076	0.931	13.396	1.00 0.00	H
ATOM	3787	HA ALA	235	72.967	2.529	11.849	1.00 0.00	H
ATOM	3788	HB1 ALA	235	70.708	1.588	12.293	1.00 0.00	H
ATOM	3789	HB2 ALA	235	71.977	0.377	12.324	1.00 0.00	H
ATOM	3790	HB3 ALA	235	71.282	0.968	13.835	1.00 0.00	H
ATOM	3791	N VAL	236	71.854	3.923	14.606	1.00191.46	N
ATOM	3792	CA VAL	236	71.536	5.175	15.283	1.00191.46	C
ATOM	3793	C VAL	236	72.483	5.259	16.495	1.00191.46	C
ATOM	3794	O VAL	236	73.318	6.155	16.543	1.00191.46	O
ATOM	3795	CB VAL	236	70.013	5.375	15.542	1.00191.46	C
ATOM	3796	CG1 VAL	236	69.715	6.698	16.272	1.00191.46	C
ATOM	3797	CG2 VAL	236	69.179	5.305	14.249	1.00191.46	C
ATOM	3798	H VAL	236	72.229	3.204	15.203	1.00 0.00	H
ATOM	3799	HA VAL	236	71.847	5.991	14.625	1.00 0.00	H
ATOM	3800	HB VAL	236	69.650	4.576	16.183	1.00 0.00	H

ATOM	3801	HG11	VAL	236	68.645	6.826	16.438	1.00	0.00		H
ATOM	3802	HG12	VAL	236	70.196	6.745	17.249	1.00	0.00		H
ATOM	3803	HG13	VAL	236	70.062	7.555	15.692	1.00	0.00		H
ATOM	3804	HG21	VAL	236	68.122	5.490	14.445	1.00	0.00		H
ATOM	3805	HG22	VAL	236	69.513	6.046	13.521	1.00	0.00		H
ATOM	3806	HG23	VAL	236	69.245	4.326	13.775	1.00	0.00		H
ATOM	3807	N	ARG	237	72.522	4.304	17.437	1.00	412.25		N
ATOM	3808	CA	ARG	237	71.474	3.509	18.087	1.00	412.25		C
ATOM	3809	C	ARG	237	72.013	3.199	19.499	1.00	412.25		C
ATOM	3810	O	ARG	237	72.049	2.045	19.913	1.00	412.25		O
ATOM	3811	CB	ARG	237	71.013	2.271	17.260	1.00	412.25		C
ATOM	3812	CG	ARG	237	69.845	1.458	17.868	1.00	412.25		C
ATOM	3813	CD	ARG	237	69.345	0.325	16.954	1.00	412.25		C
ATOM	3814	NE	ARG	237	70.329	-0.768	16.863	1.00	412.25		N
ATOM	3815	CZ	ARG	237	70.109	-2.066	16.616	1.00	412.25		C
ATOM	3816	NH1	ARG	237	68.878	-2.537	16.399	1.00	412.25		N
ATOM	3817	NH2	ARG	237	71.157	-2.888	16.587	1.00	412.25		N1+
ATOM	3818	H	ARG	237	73.350	4.387	18.010	1.00	0.00		H
ATOM	3819	HA	ARG	237	70.610	4.159	18.237	1.00	0.00		H
ATOM	3820	HB2	ARG	237	70.670	2.577	16.280	1.00	0.00		H
ATOM	3821	HB3	ARG	237	71.871	1.622	17.092	1.00	0.00		H
ATOM	3822	HG2	ARG	237	70.112	1.029	18.833	1.00	0.00		H
ATOM	3823	HG3	ARG	237	69.012	2.132	18.071	1.00	0.00		H
ATOM	3824	HD2	ARG	237	68.418	-0.069	17.374	1.00	0.00		H
ATOM	3825	HD3	ARG	237	69.107	0.696	15.956	1.00	0.00		H
ATOM	3826	HE	ARG	237	71.303	-0.485	17.009	1.00	0.00		H
ATOM	3827	HH12	ARG	237	68.687	-3.516	16.225	1.00	0.00		H
ATOM	3828	HH11	ARG	237	68.071	-1.929	16.428	1.00	0.00		H
ATOM	3829	HH22	ARG	237	71.083	-3.887	16.436	1.00	0.00		H
ATOM	3830	HH21	ARG	237	72.093	-2.521	16.765	1.00	0.00		H
ATOM	3831	N	MET	238	72.547	4.217	20.187	1.00	264.18		N
ATOM	3832	CA	MET	238	73.276	4.141	21.452	1.00	264.18		C
ATOM	3833	C	MET	238	73.106	5.474	22.197	1.00	264.18		C
ATOM	3834	O	MET	238	72.698	6.465	21.591	1.00	264.18		O
ATOM	3835	CB	MET	238	74.759	3.769	21.194	1.00	264.18		C
ATOM	3836	CG	MET	238	75.063	2.266	21.301	1.00	264.18		C
ATOM	3837	SD	MET	238	76.597	1.763	20.474	1.00	264.18		S
ATOM	3838	CE	MET	238	77.822	2.340	21.681	1.00	264.18		C
ATOM	3839	H	MET	238	72.403	5.167	19.862	1.00	0.00		H
ATOM	3840	HA	MET	238	72.811	3.380	22.083	1.00	0.00		H
ATOM	3841	HB2	MET	238	75.057	4.137	20.211	1.00	0.00		H
ATOM	3842	HB3	MET	238	75.411	4.290	21.898	1.00	0.00		H
ATOM	3843	HG2	MET	238	75.086	1.951	22.345	1.00	0.00		H
ATOM	3844	HG3	MET	238	74.270	1.685	20.837	1.00	0.00		H
ATOM	3845	HE1	MET	238	78.828	2.095	21.341	1.00	0.00		H
ATOM	3846	HE2	MET	238	77.759	3.420	21.813	1.00	0.00		H
ATOM	3847	HE3	MET	238	77.663	1.861	22.648	1.00	0.00		H
ATOM	3848	N	ILE	239	73.437	5.501	23.491	1.00	130.16		N
ATOM	3849	CA	ILE	239	73.402	6.662	24.377	1.00	130.16		C
ATOM	3850	C	ILE	239	74.534	6.501	25.412	1.00	130.16		C
ATOM	3851	O	ILE	239	75.064	5.400	25.570	1.00	130.16		O
ATOM	3852	CB	ILE	239	71.962	6.871	24.937	1.00	130.16		C
ATOM	3853	CG2	ILE	239	71.480	5.681	25.795	1.00	130.16		C
ATOM	3854	CG1	ILE	239	71.800	8.212	25.692	1.00	130.16		C
ATOM	3855	CD1	ILE	239	70.339	8.640	25.891	1.00	130.16		C
ATOM	3856	H	ILE	239	73.838	4.681	23.927	1.00	0.00		H

ATOM	3857	HA	ILE	239	73.664	7.537	23.778	1.00	0.00	H
ATOM	3858	HB	ILE	239	71.302	6.927	24.070	1.00	0.00	H
ATOM	3859	HG21	ILE	239	70.433	5.788	26.077	1.00	0.00	H
ATOM	3860	HG22	ILE	239	71.561	4.736	25.258	1.00	0.00	H
ATOM	3861	HG23	ILE	239	72.058	5.587	26.716	1.00	0.00	H
ATOM	3862	HG12	ILE	239	72.290	8.165	26.665	1.00	0.00	H
ATOM	3863	HG13	ILE	239	72.303	9.003	25.135	1.00	0.00	H
ATOM	3864	HD11	ILE	239	70.286	9.621	26.364	1.00	0.00	H
ATOM	3865	HD12	ILE	239	69.808	8.703	24.941	1.00	0.00	H
ATOM	3866	HD13	ILE	239	69.796	7.946	26.533	1.00	0.00	H
ATOM	3867	N	GLN	240	74.909	7.583	26.101	1.00	231.87	N
ATOM	3868	CA	GLN	240	75.886	7.623	27.184	1.00	231.87	C
ATOM	3869	C	GLN	240	75.540	8.759	28.157	1.00	231.87	C
ATOM	3870	O	GLN	240	74.658	9.576	27.888	1.00	231.87	O
ATOM	3871	CB	GLN	240	77.341	7.671	26.643	1.00	231.87	C
ATOM	3872	CG	GLN	240	78.139	6.361	26.828	1.00	231.87	C
ATOM	3873	CD	GLN	240	78.524	6.052	28.280	1.00	231.87	C
ATOM	3874	OE1	GLN	240	78.037	6.667	29.225	1.00	231.87	O
ATOM	3875	NE2	GLN	240	79.419	5.095	28.481	1.00	231.87	N
ATOM	3876	H	GLN	240	74.386	8.443	25.991	1.00	0.00	H
ATOM	3877	HA	GLN	240	75.748	6.709	27.765	1.00	0.00	H
ATOM	3878	HB2	GLN	240	77.331	7.929	25.583	1.00	0.00	H
ATOM	3879	HB3	GLN	240	77.900	8.485	27.111	1.00	0.00	H
ATOM	3880	HG2	GLN	240	77.576	5.519	26.424	1.00	0.00	H
ATOM	3881	HG3	GLN	240	79.056	6.428	26.243	1.00	0.00	H
ATOM	3882	HE22	GLN	240	79.700	4.882	29.426	1.00	0.00	H
ATOM	3883	HE21	GLN	240	79.819	4.589	27.706	1.00	0.00	H
ATOM	3884	N	ARG	241	76.253	8.796	29.286	1.00	224.48	N
ATOM	3885	CA	ARG	241	76.191	9.818	30.325	1.00	224.48	C
ATOM	3886	C	ARG	241	76.955	11.092	29.892	1.00	224.48	C
ATOM	3887	O	ARG	241	77.666	11.083	28.888	1.00	224.48	O
ATOM	3888	CB	ARG	241	76.863	9.242	31.599	1.00	224.48	C
ATOM	3889	CG	ARG	241	76.158	8.000	32.185	1.00	224.48	C
ATOM	3890	CD	ARG	241	76.831	7.486	33.472	1.00	224.48	C
ATOM	3891	NE	ARG	241	76.060	6.394	34.099	1.00	224.48	N
ATOM	3892	CZ	ARG	241	76.181	5.942	35.359	1.00	224.48	C
ATOM	3893	NH1	ARG	241	77.080	6.471	36.194	1.00	224.48	N
ATOM	3894	NH2	ARG	241	75.395	4.951	35.785	1.00	224.48	N1+
ATOM	3895	H	ARG	241	76.999	8.103	29.354	1.00	0.00	H
ATOM	3896	HA	ARG	241	75.148	10.075	30.522	1.00	0.00	H
ATOM	3897	HB2	ARG	241	77.904	8.995	31.381	1.00	0.00	H
ATOM	3898	HB3	ARG	241	76.898	10.011	32.372	1.00	0.00	H
ATOM	3899	HG2	ARG	241	75.113	8.243	32.384	1.00	0.00	H
ATOM	3900	HG3	ARG	241	76.152	7.201	31.441	1.00	0.00	H
ATOM	3901	HD2	ARG	241	77.843	7.137	33.259	1.00	0.00	H
ATOM	3902	HD3	ARG	241	76.916	8.307	34.184	1.00	0.00	H
ATOM	3903	HE	ARG	241	75.422	5.932	33.462	1.00	0.00	H
ATOM	3904	HH12	ARG	241	77.193	6.162	37.152	1.00	0.00	H
ATOM	3905	HH11	ARG	241	77.704	7.207	35.894	1.00	0.00	H
ATOM	3906	HH22	ARG	241	75.453	4.578	36.726	1.00	0.00	H
ATOM	3907	HH21	ARG	241	74.689	4.524	35.198	1.00	0.00	H
ATOM	3908	N	GLY	242	76.799	12.164	30.690	1.00	87.35	N
ATOM	3909	CA	GLY	242	77.410	13.507	30.682	1.00	87.35	C
ATOM	3910	C	GLY	242	78.341	13.909	29.530	1.00	87.35	C
ATOM	3911	O	GLY	242	79.498	14.252	29.755	1.00	87.35	O
ATOM	3912	H	GLY	242	76.170	12.017	31.464	1.00	0.00	H

ATOM	3913	HA2 GLY	242	76.610	14.246	30.734	1.00	0.00		H
ATOM	3914	HA3 GLY	242	77.972	13.615	31.611	1.00	0.00		H
ATOM	3915	N THR	243	77.828	13.883	28.300	1.00	194.17		N
ATOM	3916	CA THR	243	78.545	14.254	27.087	1.00	194.17		C
ATOM	3917	C THR	243	78.282	15.752	26.819	1.00	194.17		C
ATOM	3918	O THR	243	77.165	16.234	27.025	1.00	194.17		O
ATOM	3919	CB THR	243	77.955	13.378	25.952	1.00	194.17		C
ATOM	3920	OG1 THR	243	78.262	12.021	26.225	1.00	194.17		O
ATOM	3921	CG2 THR	243	78.526	13.658	24.552	1.00	194.17		C
ATOM	3922	H THR	243	76.866	13.606	28.193	1.00	0.00		H
ATOM	3923	HA THR	243	79.617	14.070	27.192	1.00	0.00		H
ATOM	3924	HB THR	243	76.869	13.490	25.919	1.00	0.00		H
ATOM	3925	HG1 THR	243	78.054	11.816	27.138	1.00	0.00		H
ATOM	3926	HG21 THR	243	78.125	12.953	23.823	1.00	0.00		H
ATOM	3927	HG22 THR	243	78.271	14.658	24.205	1.00	0.00		H
ATOM	3928	HG23 THR	243	79.612	13.560	24.541	1.00	0.00		H
ATOM	3929	N GLN	244	79.306	16.484	26.349	1.00	226.71		N
ATOM	3930	CA GLN	244	79.235	17.905	25.998	1.00	226.71		C
ATOM	3931	C GLN	244	78.225	18.193	24.870	1.00	226.71		C
ATOM	3932	O GLN	244	78.005	17.356	23.988	1.00	226.71		O
ATOM	3933	CB GLN	244	80.624	18.415	25.553	1.00	226.71		C
ATOM	3934	CG GLN	244	81.651	18.544	26.693	1.00	226.71		C
ATOM	3935	CD GLN	244	82.778	19.497	26.301	1.00	226.71		C
ATOM	3936	OE1 GLN	244	83.874	19.076	25.934	1.00	226.71		O
ATOM	3937	NE2 GLN	244	82.515	20.797	26.360	1.00	226.71		N
ATOM	3938	H GLN	244	80.199	16.027	26.259	1.00	0.00		H
ATOM	3939	HA GLN	244	78.914	18.455	26.885	1.00	0.00		H
ATOM	3940	HB2 GLN	244	81.036	17.784	24.765	1.00	0.00		H
ATOM	3941	HB3 GLN	244	80.499	19.397	25.089	1.00	0.00		H
ATOM	3942	HG2 GLN	244	81.176	18.932	27.595	1.00	0.00		H
ATOM	3943	HG3 GLN	244	82.065	17.570	26.956	1.00	0.00		H
ATOM	3944	HE22 GLN	244	83.211	21.473	26.101	1.00	0.00		H
ATOM	3945	HE21 GLN	244	81.582	21.113	26.640	1.00	0.00		H
ATOM	3946	N LYS	245	77.676	19.411	24.888	1.00	238.90		N
ATOM	3947	CA LYS	245	76.913	20.024	23.808	1.00	238.90		C
ATOM	3948	C LYS	245	77.861	20.943	23.014	1.00	238.90		C
ATOM	3949	O LYS	245	78.889	21.384	23.529	1.00	238.90		O
ATOM	3950	CB LYS	245	75.774	20.862	24.432	1.00	238.90		C
ATOM	3951	CG LYS	245	74.544	20.008	24.806	1.00	238.90		C
ATOM	3952	CD LYS	245	73.588	20.726	25.775	1.00	238.90		C
ATOM	3953	CE LYS	245	73.916	20.436	27.252	1.00	238.90		C
ATOM	3954	NZ LYS	245	73.309	21.419	28.157	1.00	238.90		N1+
ATOM	3955	H LYS	245	78.048	20.056	25.571	1.00	0.00		H
ATOM	3956	HA LYS	245	76.506	19.268	23.133	1.00	0.00		H
ATOM	3957	HB2 LYS	245	76.144	21.395	25.308	1.00	0.00		H
ATOM	3958	HB3 LYS	245	75.448	21.644	23.742	1.00	0.00		H
ATOM	3959	HG2 LYS	245	74.009	19.759	23.889	1.00	0.00		H
ATOM	3960	HG3 LYS	245	74.855	19.053	25.235	1.00	0.00		H
ATOM	3961	HD2 LYS	245	73.616	21.799	25.574	1.00	0.00		H
ATOM	3962	HD3 LYS	245	72.561	20.416	25.577	1.00	0.00		H
ATOM	3963	HE2 LYS	245	73.593	19.431	27.527	1.00	0.00		H
ATOM	3964	HE3 LYS	245	74.995	20.481	27.410	1.00	0.00		H
ATOM	3965	HZ1 LYS	245	73.514	21.236	29.123	1.00	0.00		H
ATOM	3966	HZ2 LYS	245	73.762	22.324	27.931	1.00	0.00		H
ATOM	3967	HZ3 LYS	245	72.308	21.561	28.057	1.00	0.00		H
ATOM	3968	N SER	246	77.520	21.196	21.748	1.00	154.85		N

ATOM	3969	CA	SER	246	78.366	21.819	20.736	1.00154.85	C
ATOM	3970	C	SER	246	78.508	23.350	20.922	1.00154.85	C
ATOM	3971	O	SER	246	77.969	24.130	20.137	1.00154.85	O
ATOM	3972	CB	SER	246	77.702	21.516	19.372	1.00154.85	C
ATOM	3973	OG	SER	246	77.493	20.121	19.137	1.00154.85	O
ATOM	3974	H	SER	246	76.663	20.803	21.397	1.00 0.00	H
ATOM	3975	HA	SER	246	79.363	21.381	20.769	1.00 0.00	H
ATOM	3976	HB2	SER	246	76.736	22.019	19.306	1.00 0.00	H
ATOM	3977	HB3	SER	246	78.324	21.917	18.570	1.00 0.00	H
ATOM	3978	HG	SER	246	76.975	20.058	18.340	1.00 0.00	H
ATOM	3979	N	ILE	247	79.266	23.782	21.938	1.00101.90	N
ATOM	3980	CA	ILE	247	79.805	25.140	22.097	1.00101.90	C
ATOM	3981	C	ILE	247	80.704	25.477	20.886	1.00101.90	C
ATOM	3982	O	ILE	247	81.619	24.710	20.604	1.00101.90	O
ATOM	3983	CB	ILE	247	80.546	25.243	23.467	1.00101.90	C
ATOM	3984	CG2	ILE	247	81.547	24.099	23.751	1.00101.90	C
ATOM	3985	CG1	ILE	247	81.203	26.624	23.681	1.00101.90	C
ATOM	3986	CD1	ILE	247	81.532	26.952	25.144	1.00101.90	C
ATOM	3987	H	ILE	247	79.632	23.068	22.555	1.00 0.00	H
ATOM	3988	HA	ILE	247	78.968	25.837	22.112	1.00 0.00	H
ATOM	3989	HB	ILE	247	79.768	25.161	24.219	1.00 0.00	H
ATOM	3990	HG21	ILE	247	81.957	24.170	24.757	1.00 0.00	H
ATOM	3991	HG22	ILE	247	81.085	23.114	23.681	1.00 0.00	H
ATOM	3992	HG23	ILE	247	82.387	24.125	23.056	1.00 0.00	H
ATOM	3993	HG12	ILE	247	82.106	26.718	23.075	1.00 0.00	H
ATOM	3994	HG13	ILE	247	80.520	27.388	23.319	1.00 0.00	H
ATOM	3995	HD11	ILE	247	81.907	27.972	25.229	1.00 0.00	H
ATOM	3996	HD12	ILE	247	80.648	26.885	25.778	1.00 0.00	H
ATOM	3997	HD13	ILE	247	82.296	26.291	25.552	1.00 0.00	H
ATOM	3998	N	ILE	248	80.428	26.565	20.150	1.00 95.77	N
ATOM	3999	CA	ILE	248	81.046	26.864	18.857	1.00 95.77	C
ATOM	4000	C	ILE	248	81.848	28.169	18.927	1.00 95.77	C
ATOM	4001	O	ILE	248	81.322	29.202	19.331	1.00 95.77	O
ATOM	4002	CB	ILE	248	79.963	26.866	17.731	1.00 95.77	C
ATOM	4003	CG2	ILE	248	78.829	27.890	17.956	1.00 95.77	C
ATOM	4004	CG1	ILE	248	80.605	26.997	16.326	1.00 95.77	C
ATOM	4005	CD1	ILE	248	79.616	26.891	15.158	1.00 95.77	C
ATOM	4006	H	ILE	248	79.726	27.218	20.459	1.00 0.00	H
ATOM	4007	HA	ILE	248	81.762	26.082	18.613	1.00 0.00	H
ATOM	4008	HB	ILE	248	79.475	25.892	17.757	1.00 0.00	H
ATOM	4009	HG21	ILE	248	78.018	27.758	17.240	1.00 0.00	H
ATOM	4010	HG22	ILE	248	78.389	27.777	18.943	1.00 0.00	H
ATOM	4011	HG23	ILE	248	79.181	28.918	17.870	1.00 0.00	H
ATOM	4012	HG12	ILE	248	81.153	27.935	16.236	1.00 0.00	H
ATOM	4013	HG13	ILE	248	81.358	26.220	16.202	1.00 0.00	H
ATOM	4014	HD11	ILE	248	80.143	26.848	14.205	1.00 0.00	H
ATOM	4015	HD12	ILE	248	78.986	26.006	15.234	1.00 0.00	H
ATOM	4016	HD13	ILE	248	78.959	27.757	15.119	1.00 0.00	H
ATOM	4017	N	ILE	249	83.109	28.112	18.494	1.00130.67	N
ATOM	4018	CA	ILE	249	83.999	29.238	18.267	1.00130.67	C
ATOM	4019	C	ILE	249	84.945	28.815	17.135	1.00130.67	C
ATOM	4020	O	ILE	249	85.704	27.860	17.300	1.00130.67	O
ATOM	4021	CB	ILE	249	84.658	29.718	19.598	1.00130.67	C
ATOM	4022	CG2	ILE	249	85.206	28.568	20.471	1.00130.67	C
ATOM	4023	CG1	ILE	249	85.753	30.792	19.407	1.00130.67	C
ATOM	4024	CD1	ILE	249	85.272	32.069	18.710	1.00130.67	C

ATOM	4025	H	ILE	249	83.498	27.222	18.215	1.00	0.00	H
ATOM	4026	HA	ILE	249	83.393	30.062	17.885	1.00	0.00	H
ATOM	4027	HB	ILE	249	83.864	30.186	20.180	1.00	0.00	H
ATOM	4028	HG21	ILE	249	85.627	28.948	21.402	1.00	0.00	H
ATOM	4029	HG22	ILE	249	84.428	27.855	20.745	1.00	0.00	H
ATOM	4030	HG23	ILE	249	85.993	28.017	19.955	1.00	0.00	H
ATOM	4031	HG12	ILE	249	86.148	31.072	20.384	1.00	0.00	H
ATOM	4032	HG13	ILE	249	86.599	30.378	18.855	1.00	0.00	H
ATOM	4033	HD11	ILE	249	86.060	32.820	18.725	1.00	0.00	H
ATOM	4034	HD12	ILE	249	85.027	31.884	17.664	1.00	0.00	H
ATOM	4035	HD13	ILE	249	84.397	32.493	19.204	1.00	0.00	H
ATOM	4036	N	HIS	250	84.852	29.467	15.973	1.00	235.41	N
ATOM	4037	CA	HIS	250	85.686	29.200	14.803	1.00	235.41	C
ATOM	4038	C	HIS	250	87.027	29.974	14.868	1.00	235.41	C
ATOM	4039	O	HIS	250	87.313	30.710	15.816	1.00	235.41	O
ATOM	4040	ND1	HIS	250	86.055	28.080	11.912	1.00	235.41	N
ATOM	4041	CG	HIS	250	85.432	29.284	12.205	1.00	235.41	C
ATOM	4042	CB	HIS	250	84.858	29.612	13.564	1.00	235.41	C
ATOM	4043	NE2	HIS	250	86.080	29.256	10.030	1.00	235.41	N
ATOM	4044	CD2	HIS	250	85.452	30.004	11.031	1.00	235.41	C
ATOM	4045	CE1	HIS	250	86.448	28.136	10.638	1.00	235.41	C
ATOM	4046	H	HIS	250	84.099	30.147	15.856	1.00	0.00	H
ATOM	4047	HA	HIS	250	85.898	28.132	14.751	1.00	0.00	H
ATOM	4048	HD1	HIS	250	86.148	27.263	12.527	1.00	0.00	H
ATOM	4049	HB2	HIS	250	83.901	29.093	13.609	1.00	0.00	H
ATOM	4050	HB3	HIS	250	84.628	30.679	13.598	1.00	0.00	H
ATOM	4051	HD2	HIS	250	85.048	30.988	10.831	1.00	0.00	H
ATOM	4052	HE1	HIS	250	86.973	27.336	10.137	1.00	0.00	H
ATOM	4053	N	THR	251	87.873	29.787	13.851	1.00	290.40	N
ATOM	4054	CA	THR	251	89.141	30.465	13.622	1.00	290.40	C
ATOM	4055	C	THR	251	89.190	30.864	12.148	1.00	290.40	C
ATOM	4056	O	THR	251	88.845	30.060	11.283	1.00	290.40	O
ATOM	4057	CB	THR	251	90.339	29.591	14.070	1.00	290.40	C
ATOM	4058	OG1	THR	251	90.298	28.285	13.503	1.00	290.40	O
ATOM	4059	CG2	THR	251	90.471	29.487	15.595	1.00	290.40	C
ATOM	4060	H	THR	251	87.546	29.232	13.068	1.00	0.00	H
ATOM	4061	HA	THR	251	89.155	31.391	14.200	1.00	0.00	H
ATOM	4062	HB	THR	251	91.247	30.069	13.696	1.00	0.00	H
ATOM	4063	HG1	THR	251	90.035	28.366	12.591	1.00	0.00	H
ATOM	4064	HG21	THR	251	91.353	28.918	15.887	1.00	0.00	H
ATOM	4065	HG22	THR	251	90.550	30.478	16.035	1.00	0.00	H
ATOM	4066	HG23	THR	251	89.602	29.019	16.049	1.00	0.00	H
ATOM	4067	N	SER	252	89.638	32.080	11.853	1.00	227.02	N
ATOM	4068	CA	SER	252	89.802	32.587	10.500	1.00	227.02	C
ATOM	4069	C	SER	252	91.205	32.170	10.005	1.00	227.02	C
ATOM	4070	O	SER	252	92.100	31.941	10.816	1.00	227.02	O
ATOM	4071	CB	SER	252	89.707	34.126	10.581	1.00	227.02	C
ATOM	4072	OG	SER	252	88.452	34.538	11.115	1.00	227.02	O
ATOM	4073	H	SER	252	90.132	32.587	12.582	1.00	0.00	H
ATOM	4074	HA	SER	252	89.030	32.191	9.838	1.00	0.00	H
ATOM	4075	HB2	SER	252	90.487	34.546	11.211	1.00	0.00	H
ATOM	4076	HB3	SER	252	89.831	34.560	9.588	1.00	0.00	H
ATOM	4077	HG	SER	252	88.362	35.470	10.964	1.00	0.00	H
ATOM	4078	N	GLU	253	91.385	32.044	8.682	1.00	290.40	N
ATOM	4079	CA	GLU	253	92.629	31.664	7.996	1.00	290.40	C
ATOM	4080	C	GLU	253	92.734	30.130	7.822	1.00	290.40	C

ATOM	4081	O	GLU	253	91.760	29.407	8.049	1.00290.40	O
ATOM	4082	CB	GLU	253	93.859	32.566	8.380	1.00290.40	C
ATOM	4083	CG	GLU	253	95.269	31.971	8.606	1.00290.40	C
ATOM	4084	CD	GLU	253	95.407	31.255	9.941	1.00290.40	C
ATOM	4085	OE1	GLU	253	95.370	30.007	9.994	1.00290.40	O
ATOM	4086	OE2	GLU	253	95.605	31.953	10.956	1.00290.40	O1-
ATOM	4087	H	GLU	253	90.567	32.120	8.100	1.00 0.00	H
ATOM	4088	HA	GLU	253	92.416	31.959	6.969	1.00 0.00	H
ATOM	4089	HB2	GLU	253	93.963	33.321	7.600	1.00 0.00	H
ATOM	4090	HB3	GLU	253	93.637	33.161	9.263	1.00 0.00	H
ATOM	4091	HG2	GLU	253	95.629	31.356	7.786	1.00 0.00	H
ATOM	4092	HG3	GLU	253	95.977	32.801	8.644	1.00 0.00	H
ATOM	4093	N	ASP	254	93.860	29.629	7.319	1.00211.98	N
ATOM	4094	CA	ASP	254	94.200	28.220	7.189	1.00211.98	C
ATOM	4095	C	ASP	254	95.710	28.099	7.418	1.00211.98	C
ATOM	4096	O	ASP	254	96.471	28.853	6.813	1.00211.98	O
ATOM	4097	CB	ASP	254	93.696	27.650	5.848	1.00211.98	C
ATOM	4098	CG	ASP	254	94.156	26.223	5.595	1.00211.98	C
ATOM	4099	OD1	ASP	254	94.703	25.941	4.502	1.00211.98	O
ATOM	4100	OD2	ASP	254	93.928	25.366	6.467	1.00211.98	O1-
ATOM	4101	H	ASP	254	94.664	30.247	7.299	1.00 0.00	H
ATOM	4102	HA	ASP	254	93.708	27.673	7.997	1.00 0.00	H
ATOM	4103	HB2	ASP	254	92.607	27.679	5.813	1.00 0.00	H
ATOM	4104	HB3	ASP	254	94.069	28.285	5.048	1.00 0.00	H
ATOM	4105	N	GLY	255	96.124	27.172	8.280	1.00 58.82	N
ATOM	4106	CA	GLY	255	97.411	27.183	8.971	1.00 58.82	C
ATOM	4107	C	GLY	255	97.155	26.983	10.468	1.00 58.82	C
ATOM	4108	O	GLY	255	97.904	26.285	11.143	1.00 58.82	O
ATOM	4109	H	GLY	255	95.418	26.576	8.687	1.00 0.00	H
ATOM	4110	HA2	GLY	255	98.046	26.382	8.590	1.00 0.00	H
ATOM	4111	HA3	GLY	255	97.947	28.124	8.829	1.00 0.00	H
ATOM	4112	N	LYS	256	96.026	27.495	10.977	1.00246.11	N
ATOM	4113	CA	LYS	256	95.409	27.075	12.233	1.00246.11	C
ATOM	4114	C	LYS	256	95.007	25.581	12.192	1.00246.11	C
ATOM	4115	O	LYS	256	94.599	25.072	11.144	1.00246.11	O
ATOM	4116	CB	LYS	256	94.146	27.945	12.477	1.00246.11	C
ATOM	4117	CG	LYS	256	94.010	28.502	13.906	1.00246.11	C
ATOM	4118	CD	LYS	256	94.255	30.022	14.015	1.00246.11	C
ATOM	4119	CE	LYS	256	95.737	30.433	14.030	1.00246.11	C
ATOM	4120	NZ	LYS	256	96.372	30.290	12.713	1.00246.11	N1+
ATOM	4121	H	LYS	256	95.563	28.218	10.413	1.00 0.00	H
ATOM	4122	HA	LYS	256	96.146	27.225	13.024	1.00 0.00	H
ATOM	4123	HB2	LYS	256	94.077	28.767	11.763	1.00 0.00	H
ATOM	4124	HB3	LYS	256	93.246	27.365	12.257	1.00 0.00	H
ATOM	4125	HG2	LYS	256	92.987	28.314	14.230	1.00 0.00	H
ATOM	4126	HG3	LYS	256	94.630	27.954	14.617	1.00 0.00	H
ATOM	4127	HD2	LYS	256	93.712	30.561	13.235	1.00 0.00	H
ATOM	4128	HD3	LYS	256	93.812	30.360	14.952	1.00 0.00	H
ATOM	4129	HE2	LYS	256	95.833	31.476	14.338	1.00 0.00	H
ATOM	4130	HE3	LYS	256	96.289	29.844	14.762	1.00 0.00	H
ATOM	4131	HZ1	LYS	256	97.389	30.405	12.781	1.00 0.00	H
ATOM	4132	HZ2	LYS	256	96.166	29.422	12.248	1.00 0.00	H
ATOM	4133	HZ3	LYS	256	96.030	31.009	12.041	1.00 0.00	H
ATOM	4134	N	VAL	257	95.035	24.907	13.350	1.00130.17	N
ATOM	4135	CA	VAL	257	94.506	23.570	13.669	1.00130.17	C
ATOM	4136	C	VAL	257	92.955	23.506	13.542	1.00130.17	C

ATOM	4137	O	VAL	257	92.243	23.102	14.462	1.00130.17	O	
ATOM	4138	CB	VAL	257	95.059	23.179	15.076	1.00130.17	C	
ATOM	4139	CG1	VAL	257	94.650	24.127	16.225	1.00130.17	C	
ATOM	4140	CG2	VAL	257	94.833	21.702	15.450	1.00130.17	C	
ATOM	4141	H	VAL	257	95.561	25.346	14.096	1.00	0.00	H
ATOM	4142	HA	VAL	257	94.918	22.874	12.935	1.00	0.00	H
ATOM	4143	HB	VAL	257	96.141	23.276	15.007	1.00	0.00	H
ATOM	4144	HG11	VAL	257	95.147	23.841	17.153	1.00	0.00	H
ATOM	4145	HG12	VAL	257	94.940	25.158	16.022	1.00	0.00	H
ATOM	4146	HG13	VAL	257	93.578	24.116	16.412	1.00	0.00	H
ATOM	4147	HG21	VAL	257	95.410	21.437	16.336	1.00	0.00	H
ATOM	4148	HG22	VAL	257	93.789	21.476	15.661	1.00	0.00	H
ATOM	4149	HG23	VAL	257	95.162	21.043	14.647	1.00	0.00	H
ATOM	4150	N	GLN	258	92.454	23.964	12.387	1.00215.45	N	
ATOM	4151	CA	GLN	258	91.113	24.416	12.042	1.00215.45	C	
ATOM	4152	C	GLN	258	89.915	23.818	12.801	1.00215.45	C	
ATOM	4153	O	GLN	258	89.514	22.666	12.576	1.00215.45	O	
ATOM	4154	CB	GLN	258	90.933	24.467	10.501	1.00215.45	C	
ATOM	4155	CG	GLN	258	91.139	25.869	9.879	1.00215.45	C	
ATOM	4156	CD	GLN	258	90.072	26.880	10.313	1.00215.45	C	
ATOM	4157	OE1	GLN	258	89.177	26.562	11.090	1.00215.45	O	
ATOM	4158	NE2	GLN	258	90.143	28.115	9.846	1.00215.45	N	
ATOM	4159	H	GLN	258	93.184	24.280	11.748	1.00	0.00	H
ATOM	4160	HA	GLN	258	91.161	25.450	12.387	1.00	0.00	H
ATOM	4161	HB2	GLN	258	91.611	23.759	10.024	1.00	0.00	H
ATOM	4162	HB3	GLN	258	89.935	24.118	10.230	1.00	0.00	H
ATOM	4163	HG2	GLN	258	92.125	26.255	10.144	1.00	0.00	H
ATOM	4164	HG3	GLN	258	91.120	25.794	8.791	1.00	0.00	H
ATOM	4165	HE22	GLN	258	89.484	28.813	10.198	1.00	0.00	H
ATOM	4166	HE21	GLN	258	90.869	28.431	9.197	1.00	0.00	H
ATOM	4167	N	VAL	259	89.292	24.661	13.634	1.00118.16	N	
ATOM	4168	CA	VAL	259	87.990	24.448	14.242	1.00118.16	C	
ATOM	4169	C	VAL	259	86.893	24.811	13.219	1.00118.16	C	
ATOM	4170	O	VAL	259	86.092	25.726	13.400	1.00118.16	O	
ATOM	4171	CB	VAL	259	87.854	25.242	15.571	1.00118.16	C	
ATOM	4172	CG1	VAL	259	88.495	24.486	16.741	1.00118.16	C	
ATOM	4173	CG2	VAL	259	88.419	26.664	15.507	1.00118.16	C	
ATOM	4174	H	VAL	259	89.659	25.602	13.713	1.00	0.00	H
ATOM	4175	HA	VAL	259	87.883	23.395	14.478	1.00	0.00	H
ATOM	4176	HB	VAL	259	86.793	25.324	15.819	1.00	0.00	H
ATOM	4177	HG11	VAL	259	88.351	25.027	17.677	1.00	0.00	H
ATOM	4178	HG12	VAL	259	88.043	23.501	16.862	1.00	0.00	H
ATOM	4179	HG13	VAL	259	89.566	24.357	16.588	1.00	0.00	H
ATOM	4180	HG21	VAL	259	88.111	27.240	16.380	1.00	0.00	H
ATOM	4181	HG22	VAL	259	89.508	26.663	15.483	1.00	0.00	H
ATOM	4182	HG23	VAL	259	88.064	27.189	14.624	1.00	0.00	H
ATOM	4183	N	THR	260	86.791	24.003	12.160	1.00115.26	N	
ATOM	4184	CA	THR	260	85.595	23.801	11.344	1.00115.26	C	
ATOM	4185	C	THR	260	84.732	22.710	12.031	1.00115.26	C	
ATOM	4186	O	THR	260	84.207	21.790	11.402	1.00115.26	O	
ATOM	4187	CB	THR	260	86.073	23.383	9.930	1.00115.26	C	
ATOM	4188	OG1	THR	260	86.966	22.275	9.963	1.00115.26	O	
ATOM	4189	CG2	THR	260	86.774	24.534	9.202	1.00115.26	C	
ATOM	4190	H	THR	260	87.534	23.332	12.002	1.00	0.00	H
ATOM	4191	HA	THR	260	85.001	24.715	11.277	1.00	0.00	H
ATOM	4192	HB	THR	260	85.205	23.098	9.335	1.00	0.00	H

ATOM	4193	HG1 THR	260	87.231	22.096	9.070	1.00	0.00	H
ATOM	4194	HG21 THR	260	87.002	24.263	8.176	1.00	0.00	H
ATOM	4195	HG22 THR	260	86.134	25.415	9.160	1.00	0.00	H
ATOM	4196	HG23 THR	260	87.701	24.826	9.694	1.00	0.00	H
ATOM	4197	N ARG	261	84.650	22.783	13.362	1.00293.45		N
ATOM	4198	CA ARG	261	84.184	21.800	14.324	1.00293.45		C
ATOM	4199	C ARG	261	84.044	22.581	15.647	1.00293.45		C
ATOM	4200	O ARG	261	85.088	22.972	16.162	1.00293.45		O
ATOM	4201	CB ARG	261	85.182	20.605	14.408	1.00293.45		C
ATOM	4202	CG ARG	261	86.687	20.983	14.478	1.00293.45		C
ATOM	4203	CD ARG	261	87.670	19.820	14.603	1.00293.45		C
ATOM	4204	NE ARG	261	87.437	18.814	13.573	1.00293.45		N
ATOM	4205	CZ ARG	261	87.940	18.767	12.338	1.00293.45		C
ATOM	4206	NH1 ARG	261	88.726	19.741	11.865	1.00293.45		N
ATOM	4207	NH2 ARG	261	87.610	17.720	11.589	1.00293.45		N1+
ATOM	4208	H ARG	261	85.052	23.614	13.784	1.00	0.00	H
ATOM	4209	HA ARG	261	83.227	21.405	13.988	1.00	0.00	H
ATOM	4210	HB2 ARG	261	84.928	19.983	15.268	1.00	0.00	H
ATOM	4211	HB3 ARG	261	85.023	19.969	13.537	1.00	0.00	H
ATOM	4212	HG2 ARG	261	86.965	21.551	13.593	1.00	0.00	H
ATOM	4213	HG3 ARG	261	86.879	21.624	15.336	1.00	0.00	H
ATOM	4214	HD2 ARG	261	88.700	20.172	14.548	1.00	0.00	H
ATOM	4215	HD3 ARG	261	87.549	19.338	15.572	1.00	0.00	H
ATOM	4216	HE ARG	261	86.734	18.093	13.885	1.00	0.00	H
ATOM	4217	HH12 ARG	261	89.085	19.742	10.924	1.00	0.00	H
ATOM	4218	HH11 ARG	261	88.947	20.570	12.416	1.00	0.00	H
ATOM	4219	HH22 ARG	261	87.911	17.515	10.636	1.00	0.00	H
ATOM	4220	HH21 ARG	261	86.962	17.012	12.009	1.00	0.00	H
ATOM	4221	N PRO	262	82.821	22.868	16.154	1.00253.01		N
ATOM	4222	CA PRO	262	82.536	23.550	17.430	1.00253.01		C
ATOM	4223	C PRO	262	83.469	23.261	18.625	1.00253.01		C
ATOM	4224	O PRO	262	84.465	23.961	18.804	1.00253.01		O
ATOM	4225	CD PRO	262	81.562	22.608	15.449	1.00253.01		C
ATOM	4226	CB PRO	262	81.045	23.292	17.701	1.00253.01		C
ATOM	4227	CG PRO	262	80.440	23.189	16.311	1.00253.01		C
ATOM	4228	HA PRO	262	82.668	24.608	17.208	1.00	0.00	H
ATOM	4229	HD3 PRO	262	81.553	23.066	14.458	1.00	0.00	H
ATOM	4230	HD2 PRO	262	81.437	21.539	15.323	1.00	0.00	H
ATOM	4231	HB2 PRO	262	80.901	22.365	18.250	1.00	0.00	H
ATOM	4232	HB3 PRO	262	80.579	24.068	18.299	1.00	0.00	H
ATOM	4233	HG3 PRO	262	80.189	24.183	15.948	1.00	0.00	H
ATOM	4234	HG2 PRO	262	79.520	22.604	16.273	1.00	0.00	H
ATOM	4235	N ASP	263	83.169	22.253	19.455	1.00156.43		N
ATOM	4236	CA ASP	263	84.025	21.841	20.560	1.00156.43		C
ATOM	4237	C ASP	263	85.107	20.942	19.940	1.00156.43		C
ATOM	4238	O ASP	263	84.849	19.830	19.466	1.00156.43		O
ATOM	4239	CB ASP	263	83.235	21.125	21.689	1.00156.43		C
ATOM	4240	CG ASP	263	82.264	20.007	21.328	1.00156.43		C
ATOM	4241	OD1 ASP	263	81.512	20.125	20.335	1.00156.43		O
ATOM	4242	OD2 ASP	263	82.186	19.026	22.095	1.00156.43		O1-
ATOM	4243	H ASP	263	82.327	21.700	19.335	1.00	0.00	H
ATOM	4244	HA ASP	263	84.489	22.722	21.009	1.00	0.00	H
ATOM	4245	HB2 ASP	263	83.936	20.739	22.430	1.00	0.00	H
ATOM	4246	HB3 ASP	263	82.640	21.871	22.213	1.00	0.00	H
ATOM	4247	N GLN	264	86.321	21.509	19.875	1.00154.88		N
ATOM	4248	CA GLN	264	87.529	21.010	19.219	1.00154.88		C

ATOM	4249	C	GLN	264	87.788	19.518	19.486	1.00154.88	C
ATOM	4250	O	GLN	264	87.859	19.102	20.646	1.00154.88	O
ATOM	4251	CB	GLN	264	88.726	21.924	19.588	1.00154.88	C
ATOM	4252	CG	GLN	264	90.131	21.524	19.069	1.00154.88	C
ATOM	4253	CD	GLN	264	90.262	21.526	17.543	1.00154.88	C
ATOM	4254	OE1	GLN	264	89.439	20.941	16.845	1.00154.88	O
ATOM	4255	NE2	GLN	264	91.289	22.182	17.017	1.00154.88	N
ATOM	4256	H	GLN	264	86.329	22.485	20.139	1.00 0.00	H
ATOM	4257	HA	GLN	264	87.323	21.135	18.155	1.00 0.00	H
ATOM	4258	HB2	GLN	264	88.511	22.938	19.248	1.00 0.00	H
ATOM	4259	HB3	GLN	264	88.788	21.993	20.674	1.00 0.00	H
ATOM	4260	HG2	GLN	264	90.865	22.212	19.491	1.00 0.00	H
ATOM	4261	HG3	GLN	264	90.412	20.535	19.434	1.00 0.00	H
ATOM	4262	HE22	GLN	264	91.397	22.270	16.007	1.00 0.00	H
ATOM	4263	HE21	GLN	264	91.954	22.658	17.605	1.00 0.00	H
ATOM	4264	N	ALA	265	87.871	18.739	18.403	1.00 47.41	N
ATOM	4265	CA	ALA	265	88.126	17.299	18.310	1.00 47.41	C
ATOM	4266	C	ALA	265	86.920	16.405	18.655	1.00 47.41	C
ATOM	4267	O	ALA	265	86.979	15.201	18.425	1.00 47.41	O
ATOM	4268	CB	ALA	265	89.410	16.883	19.054	1.00 47.41	C
ATOM	4269	H	ALA	265	87.847	19.233	17.522	1.00 0.00	H
ATOM	4270	HA	ALA	265	88.309	17.115	17.251	1.00 0.00	H
ATOM	4271	HB1	ALA	265	89.653	15.839	18.854	1.00 0.00	H
ATOM	4272	HB2	ALA	265	90.264	17.481	18.736	1.00 0.00	H
ATOM	4273	HB3	ALA	265	89.309	16.985	20.135	1.00 0.00	H
ATOM	4274	N	ARG	266	85.842	16.969	19.216	1.00140.83	N
ATOM	4275	CA	ARG	266	84.683	16.220	19.699	1.00140.83	C
ATOM	4276	C	ARG	266	83.503	16.330	18.724	1.00140.83	C
ATOM	4277	O	ARG	266	82.818	15.334	18.491	1.00140.83	O
ATOM	4278	CB	ARG	266	84.242	16.826	21.045	1.00140.83	C
ATOM	4279	CG	ARG	266	85.186	16.517	22.220	1.00140.83	C
ATOM	4280	CD	ARG	266	85.214	17.649	23.260	1.00140.83	C
ATOM	4281	NE	ARG	266	86.275	18.613	22.931	1.00140.83	N
ATOM	4282	CZ	ARG	266	86.790	19.552	23.728	1.00140.83	C
ATOM	4283	NH1	ARG	266	86.286	19.796	24.939	1.00140.83	N
ATOM	4284	NH2	ARG	266	87.837	20.239	23.277	1.00140.83	N1+
ATOM	4285	H	ARG	266	85.831	17.976	19.323	1.00 0.00	H
ATOM	4286	HA	ARG	266	84.913	15.161	19.837	1.00 0.00	H
ATOM	4287	HB2	ARG	266	84.159	17.904	20.929	1.00 0.00	H
ATOM	4288	HB3	ARG	266	83.238	16.491	21.312	1.00 0.00	H
ATOM	4289	HG2	ARG	266	84.877	15.584	22.693	1.00 0.00	H
ATOM	4290	HG3	ARG	266	86.197	16.331	21.855	1.00 0.00	H
ATOM	4291	HD2	ARG	266	84.248	18.148	23.351	1.00 0.00	H
ATOM	4292	HD3	ARG	266	85.441	17.226	24.239	1.00 0.00	H
ATOM	4293	HE	ARG	266	86.652	18.528	21.985	1.00 0.00	H
ATOM	4294	HH12	ARG	266	86.698	20.434	25.600	1.00 0.00	H
ATOM	4295	HH11	ARG	266	85.400	19.360	25.246	1.00 0.00	H
ATOM	4296	HH22	ARG	266	88.321	20.943	23.815	1.00 0.00	H
ATOM	4297	HH21	ARG	266	88.199	20.006	22.352	1.00 0.00	H
ATOM	4298	N	MET	267	83.222	17.522	18.175	1.00161.10	N
ATOM	4299	CA	MET	267	81.940	17.775	17.514	1.00161.10	C
ATOM	4300	C	MET	267	81.734	16.956	16.232	1.00161.10	C
ATOM	4301	O	MET	267	80.681	16.346	16.056	1.00161.10	O
ATOM	4302	CB	MET	267	81.765	19.266	17.184	1.00161.10	C
ATOM	4303	CG	MET	267	80.277	19.619	17.003	1.00161.10	C
ATOM	4304	SD	MET	267	79.651	19.517	15.311	1.00161.10	S

ATOM	4305	CE	MET	267	77.895	19.775	15.659	1.00161.10	C
ATOM	4306	H	MET	267	83.774	18.319	18.472	1.00 0.00	H
ATOM	4307	HA	MET	267	81.171	17.476	18.229	1.00 0.00	H
ATOM	4308	HB2	MET	267	82.161	19.860	18.005	1.00 0.00	H
ATOM	4309	HB3	MET	267	82.349	19.563	16.313	1.00 0.00	H
ATOM	4310	HG2	MET	267	79.653	18.978	17.622	1.00 0.00	H
ATOM	4311	HG3	MET	267	80.085	20.623	17.360	1.00 0.00	H
ATOM	4312	HE1	MET	267	77.324	19.816	14.736	1.00 0.00	H
ATOM	4313	HE2	MET	267	77.495	18.963	16.264	1.00 0.00	H
ATOM	4314	HE3	MET	267	77.749	20.716	16.185	1.00 0.00	H
ATOM	4315	N	ASP	268	82.735	16.872	15.352	1.00123.86	N
ATOM	4316	CA	ASP	268	82.600	16.179	14.067	1.00123.86	C
ATOM	4317	C	ASP	268	82.749	14.644	14.215	1.00123.86	C
ATOM	4318	O	ASP	268	82.716	13.925	13.214	1.00123.86	O
ATOM	4319	CB	ASP	268	83.579	16.782	13.035	1.00123.86	C
ATOM	4320	CG	ASP	268	85.066	16.620	13.317	1.00123.86	C
ATOM	4321	OD1	ASP	268	85.786	16.075	12.444	1.00123.86	O
ATOM	4322	OD2	ASP	268	85.533	17.207	14.311	1.00123.86	O1-
ATOM	4323	H	ASP	268	83.636	17.292	15.556	1.00 0.00	H
ATOM	4324	HA	ASP	268	81.595	16.354	13.681	1.00 0.00	H
ATOM	4325	HB2	ASP	268	83.341	16.380	12.053	1.00 0.00	H
ATOM	4326	HB3	ASP	268	83.383	17.850	12.945	1.00 0.00	H
ATOM	4327	N	ILE	269	82.786	14.134	15.455	1.00 98.76	N
ATOM	4328	CA	ILE	269	82.586	12.733	15.819	1.00 98.76	C
ATOM	4329	C	ILE	269	81.329	12.558	16.712	1.00 98.76	C
ATOM	4330	O	ILE	269	80.821	11.447	16.828	1.00 98.76	O
ATOM	4331	CB	ILE	269	83.917	12.100	16.324	1.00 98.76	C
ATOM	4332	CG2	ILE	269	84.503	12.817	17.556	1.00 98.76	C
ATOM	4333	CG1	ILE	269	83.808	10.573	16.552	1.00 98.76	C
ATOM	4334	CD1	ILE	269	85.161	9.848	16.598	1.00 98.76	C
ATOM	4335	H	ILE	269	82.871	14.790	16.221	1.00 0.00	H
ATOM	4336	HA	ILE	269	82.325	12.185	14.912	1.00 0.00	H
ATOM	4337	HB	ILE	269	84.636	12.236	15.515	1.00 0.00	H
ATOM	4338	HG21	ILE	269	85.455	12.386	17.863	1.00 0.00	H
ATOM	4339	HG22	ILE	269	84.706	13.867	17.344	1.00 0.00	H
ATOM	4340	HG23	ILE	269	83.829	12.768	18.411	1.00 0.00	H
ATOM	4341	HG12	ILE	269	83.253	10.368	17.470	1.00 0.00	H
ATOM	4342	HG13	ILE	269	83.225	10.129	15.745	1.00 0.00	H
ATOM	4343	HD11	ILE	269	85.019	8.770	16.682	1.00 0.00	H
ATOM	4344	HD12	ILE	269	85.744	10.031	15.695	1.00 0.00	H
ATOM	4345	HD13	ILE	269	85.761	10.159	17.453	1.00 0.00	H
ATOM	4346	N	ARG	270	80.714	13.646	17.212	1.00162.12	N
ATOM	4347	CA	ARG	270	79.332	13.659	17.721	1.00162.12	C
ATOM	4348	C	ARG	270	78.352	13.534	16.531	1.00162.12	C
ATOM	4349	O	ARG	270	77.306	12.904	16.651	1.00162.12	O
ATOM	4350	CB	ARG	270	79.070	14.975	18.503	1.00162.12	C
ATOM	4351	CG	ARG	270	77.702	15.070	19.218	1.00162.12	C
ATOM	4352	CD	ARG	270	77.454	16.450	19.862	1.00162.12	C
ATOM	4353	NE	ARG	270	78.354	16.669	21.006	1.00162.12	N
ATOM	4354	CZ	ARG	270	79.358	17.552	21.091	1.00162.12	C
ATOM	4355	NH1	ARG	270	79.516	18.530	20.207	1.00162.12	N
ATOM	4356	NH2	ARG	270	80.232	17.438	22.079	1.00162.12	N1+
ATOM	4357	H	ARG	270	81.177	14.540	17.121	1.00 0.00	H
ATOM	4358	HA	ARG	270	79.189	12.806	18.387	1.00 0.00	H
ATOM	4359	HB2	ARG	270	79.864	15.114	19.239	1.00 0.00	H
ATOM	4360	HB3	ARG	270	79.137	15.826	17.830	1.00 0.00	H

ATOM	4361	HG2	ARG	270	76.895	14.880	18.510	1.00	0.00	H
ATOM	4362	HG3	ARG	270	77.627	14.282	19.969	1.00	0.00	H
ATOM	4363	HD2	ARG	270	77.554	17.239	19.117	1.00	0.00	H
ATOM	4364	HD3	ARG	270	76.428	16.503	20.228	1.00	0.00	H
ATOM	4365	HE	ARG	270	78.154	16.115	21.831	1.00	0.00	H
ATOM	4366	HH12	ARG	270	80.360	19.166	20.279	1.00	0.00	H
ATOM	4367	HH11	ARG	270	78.726	18.935	19.701	1.00	0.00	H
ATOM	4368	HH22	ARG	270	81.064	18.102	22.115	1.00	0.00	H
ATOM	4369	HH21	ARG	270	80.081	16.851	22.879	1.00	0.00	H
ATOM	4370	N	LEU	271	78.729	14.069	15.360	1.00	158.58	N
ATOM	4371	CA	LEU	271	78.011	13.947	14.087	1.00	158.58	C
ATOM	4372	C	LEU	271	78.289	12.603	13.366	1.00	158.58	C
ATOM	4373	O	LEU	271	77.925	12.438	12.198	1.00	158.58	O
ATOM	4374	CB	LEU	271	78.458	15.098	13.154	1.00	158.58	C
ATOM	4375	CG	LEU	271	78.106	16.530	13.614	1.00	158.58	C
ATOM	4376	CD1	LEU	271	78.688	17.539	12.614	1.00	158.58	C
ATOM	4377	CD2	LEU	271	76.595	16.769	13.778	1.00	158.58	C
ATOM	4378	H	LEU	271	79.567	14.638	15.372	1.00	0.00	H
ATOM	4379	HA	LEU	271	76.936	13.995	14.262	1.00	0.00	H
ATOM	4380	HB2	LEU	271	79.535	15.027	12.994	1.00	0.00	H
ATOM	4381	HB3	LEU	271	78.014	14.959	12.169	1.00	0.00	H
ATOM	4382	HG	LEU	271	78.573	16.715	14.581	1.00	0.00	H
ATOM	4383	HD11	LEU	271	78.409	18.561	12.872	1.00	0.00	H
ATOM	4384	HD12	LEU	271	79.777	17.492	12.590	1.00	0.00	H
ATOM	4385	HD13	LEU	271	78.324	17.355	11.604	1.00	0.00	H
ATOM	4386	HD21	LEU	271	76.396	17.781	14.131	1.00	0.00	H
ATOM	4387	HD22	LEU	271	76.070	16.667	12.831	1.00	0.00	H
ATOM	4388	HD23	LEU	271	76.144	16.094	14.504	1.00	0.00	H
ATOM	4389	N	ALA	272	78.902	11.616	14.040	1.00	45.31	N
ATOM	4390	CA	ALA	272	79.264	10.305	13.484	1.00	45.31	C
ATOM	4391	C	ALA	272	78.064	9.422	13.091	1.00	45.31	C
ATOM	4392	O	ALA	272	78.267	8.374	12.480	1.00	45.31	O
ATOM	4393	CB	ALA	272	80.142	9.539	14.485	1.00	45.31	C
ATOM	4394	H	ALA	272	79.127	11.788	15.012	1.00	0.00	H
ATOM	4395	HA	ALA	272	79.844	10.473	12.575	1.00	0.00	H
ATOM	4396	HB1	ALA	272	80.398	8.545	14.114	1.00	0.00	H
ATOM	4397	HB2	ALA	272	81.082	10.059	14.655	1.00	0.00	H
ATOM	4398	HB3	ALA	272	79.643	9.411	15.446	1.00	0.00	H
ATOM	4399	N	LYS	273	76.829	9.841	13.393	1.00	50.40	N
ATOM	4400	CA	LYS	273	75.608	9.261	12.851	1.00	50.40	C
ATOM	4401	C	LYS	273	74.531	10.323	12.592	1.00	50.40	C
ATOM	4402	O	LYS	273	73.368	10.124	12.923	1.00	50.40	O
ATOM	4403	CB	LYS	273	75.178	7.969	13.596	1.00	50.40	C
ATOM	4404	CG	LYS	273	74.385	6.954	12.740	1.00	50.40	C
ATOM	4405	CD	LYS	273	75.175	6.421	11.529	1.00	50.40	C
ATOM	4406	CE	LYS	273	74.537	5.212	10.834	1.00	50.40	C
ATOM	4407	NZ	LYS	273	75.262	4.864	9.598	1.00	50.40	N1+
ATOM	4408	H	LYS	273	76.742	10.697	13.921	1.00	0.00	H
ATOM	4409	HA	LYS	273	75.878	8.973	11.837	1.00	0.00	H
ATOM	4410	HB2	LYS	273	76.057	7.455	13.986	1.00	0.00	H
ATOM	4411	HB3	LYS	273	74.589	8.235	14.475	1.00	0.00	H
ATOM	4412	HG2	LYS	273	74.110	6.119	13.385	1.00	0.00	H
ATOM	4413	HG3	LYS	273	73.444	7.395	12.410	1.00	0.00	H
ATOM	4414	HD2	LYS	273	75.281	7.216	10.796	1.00	0.00	H
ATOM	4415	HD3	LYS	273	76.179	6.154	11.850	1.00	0.00	H
ATOM	4416	HE2	LYS	273	74.533	4.353	11.505	1.00	0.00	H

ATOM	4417	HE3	LYS	273	73.500	5.432	10.576	1.00	0.00	H
ATOM	4418	HZ1	LYS	273	75.268	5.669	8.968	1.00	0.00	H
ATOM	4419	HZ2	LYS	273	76.235	4.601	9.778	1.00	0.00	H
ATOM	4420	HZ3	LYS	273	74.817	4.096	9.123	1.00	0.00	H
ATOM	4421	N	THR	274	74.919	11.441	11.965	1.00	122.32	N
ATOM	4422	CA	THR	274	74.002	12.379	11.316	1.00	122.32	C
ATOM	4423	C	THR	274	74.360	12.400	9.821	1.00	122.32	C
ATOM	4424	O	THR	274	73.623	11.859	8.998	1.00	122.32	O
ATOM	4425	CB	THR	274	74.051	13.763	12.011	1.00	122.32	C
ATOM	4426	OG1	THR	274	75.368	14.284	12.016	1.00	122.32	O
ATOM	4427	CG2	THR	274	73.537	13.738	13.457	1.00	122.32	C
ATOM	4428	H	THR	274	75.906	11.627	11.841	1.00	0.00	H
ATOM	4429	HA	THR	274	72.972	12.019	11.377	1.00	0.00	H
ATOM	4430	HB	THR	274	73.427	14.452	11.439	1.00	0.00	H
ATOM	4431	HG1	THR	274	75.328	15.176	12.338	1.00	0.00	H
ATOM	4432	HG21	THR	274	73.514	14.740	13.888	1.00	0.00	H
ATOM	4433	HG22	THR	274	72.519	13.348	13.495	1.00	0.00	H
ATOM	4434	HG23	THR	274	74.156	13.109	14.098	1.00	0.00	H
ATOM	4435	N	LEU	275	75.561	12.886	9.474	1.00	160.29	N
ATOM	4436	CA	LEU	275	76.069	13.044	8.100	1.00	160.29	C
ATOM	4437	C	LEU	275	76.229	11.707	7.345	1.00	160.29	C
ATOM	4438	O	LEU	275	76.352	11.687	6.125	1.00	160.29	O
ATOM	4439	CB	LEU	275	77.443	13.752	8.123	1.00	160.29	C
ATOM	4440	CG	LEU	275	77.562	15.010	9.009	1.00	160.29	C
ATOM	4441	CD1	LEU	275	78.984	15.581	8.916	1.00	160.29	C
ATOM	4442	CD2	LEU	275	76.521	16.089	8.674	1.00	160.29	C
ATOM	4443	H	LEU	275	76.073	13.341	10.224	1.00	0.00	H
ATOM	4444	HA	LEU	275	75.356	13.653	7.539	1.00	0.00	H
ATOM	4445	HB2	LEU	275	78.203	13.038	8.445	1.00	0.00	H
ATOM	4446	HB3	LEU	275	77.711	14.016	7.099	1.00	0.00	H
ATOM	4447	HG	LEU	275	77.405	14.706	10.042	1.00	0.00	H
ATOM	4448	HD11	LEU	275	79.176	16.310	9.701	1.00	0.00	H
ATOM	4449	HD12	LEU	275	79.726	14.798	9.030	1.00	0.00	H
ATOM	4450	HD13	LEU	275	79.172	16.050	7.948	1.00	0.00	H
ATOM	4451	HD21	LEU	275	76.611	16.936	9.352	1.00	0.00	H
ATOM	4452	HD22	LEU	275	76.641	16.456	7.655	1.00	0.00	H
ATOM	4453	HD23	LEU	275	75.502	15.715	8.773	1.00	0.00	H
ATOM	4454	N	VAL	276	76.201	10.592	8.082	1.00	124.95	N
ATOM	4455	CA	VAL	276	76.274	9.221	7.598	1.00	124.95	C
ATOM	4456	C	VAL	276	75.081	8.388	8.117	1.00	124.95	C
ATOM	4457	O	VAL	276	75.137	7.155	8.121	1.00	124.95	O
ATOM	4458	CB	VAL	276	77.682	8.628	7.868	1.00	124.95	C
ATOM	4459	CG1	VAL	276	78.775	9.322	7.033	1.00	124.95	C
ATOM	4460	CG2	VAL	276	78.064	8.636	9.360	1.00	124.95	C
ATOM	4461	H	VAL	276	76.096	10.728	9.074	1.00	0.00	H
ATOM	4462	HA	VAL	276	76.135	9.224	6.515	1.00	0.00	H
ATOM	4463	HB	VAL	276	77.659	7.589	7.538	1.00	0.00	H
ATOM	4464	HG11	VAL	276	79.740	8.831	7.159	1.00	0.00	H
ATOM	4465	HG12	VAL	276	78.533	9.294	5.969	1.00	0.00	H
ATOM	4466	HG13	VAL	276	78.900	10.367	7.314	1.00	0.00	H
ATOM	4467	HG21	VAL	276	79.055	8.212	9.519	1.00	0.00	H
ATOM	4468	HG22	VAL	276	78.083	9.645	9.775	1.00	0.00	H
ATOM	4469	HG23	VAL	276	77.369	8.044	9.953	1.00	0.00	H
ATOM	4470	N	LEU	277	73.999	9.051	8.559	1.00	133.27	N
ATOM	4471	CA	LEU	277	72.680	8.446	8.756	1.00	133.27	C
ATOM	4472	C	LEU	277	71.924	8.555	7.426	1.00	133.27	C

ATOM	4473	O	LEU	277	71.481	7.529	6.926	1.00133.27	O
ATOM	4474	CB	LEU	277	71.897	9.189	9.864	1.00133.27	C
ATOM	4475	CG	LEU	277	70.499	8.618	10.205	1.00133.27	C
ATOM	4476	CD1	LEU	277	70.555	7.172	10.725	1.00133.27	C
ATOM	4477	CD2	LEU	277	69.790	9.518	11.227	1.00133.27	C
ATOM	4478	H	LEU	277	74.023	10.068	8.533	1.00 0.00	H
ATOM	4479	HA	LEU	277	72.785	7.396	9.027	1.00 0.00	H
ATOM	4480	HB2	LEU	277	72.498	9.182	10.770	1.00 0.00	H
ATOM	4481	HB3	LEU	277	71.777	10.237	9.595	1.00 0.00	H
ATOM	4482	HG	LEU	277	69.882	8.621	9.304	1.00 0.00	H
ATOM	4483	HD11	LEU	277	69.559	6.814	10.987	1.00 0.00	H
ATOM	4484	HD12	LEU	277	70.941	6.481	9.975	1.00 0.00	H
ATOM	4485	HD13	LEU	277	71.176	7.090	11.616	1.00 0.00	H
ATOM	4486	HD21	LEU	277	68.799	9.133	11.471	1.00 0.00	H
ATOM	4487	HD22	LEU	277	70.358	9.594	12.155	1.00 0.00	H
ATOM	4488	HD23	LEU	277	69.652	10.526	10.836	1.00 0.00	H
ATOM	4489	N	ILE	278	71.865	9.758	6.824	1.00134.37	N
ATOM	4490	CA	ILE	278	71.312	10.078	5.492	1.00134.37	C
ATOM	4491	C	ILE	278	71.700	9.046	4.407	1.00134.37	C
ATOM	4492	O	ILE	278	70.854	8.488	3.705	1.00134.37	O
ATOM	4493	CB	ILE	278	71.638	11.560	5.131	1.00134.37	C
ATOM	4494	CG2	ILE	278	73.118	11.934	5.359	1.00134.37	C
ATOM	4495	CG1	ILE	278	71.190	11.985	3.712	1.00134.37	C
ATOM	4496	CD1	ILE	278	69.682	11.866	3.477	1.00134.37	C
ATOM	4497	H	ILE	278	72.227	10.549	7.337	1.00 0.00	H
ATOM	4498	HA	ILE	278	70.229	10.020	5.592	1.00 0.00	H
ATOM	4499	HB	ILE	278	71.070	12.186	5.819	1.00 0.00	H
ATOM	4500	HG21	ILE	278	73.306	12.968	5.071	1.00 0.00	H
ATOM	4501	HG22	ILE	278	73.403	11.852	6.405	1.00 0.00	H
ATOM	4502	HG23	ILE	278	73.797	11.313	4.776	1.00 0.00	H
ATOM	4503	HG12	ILE	278	71.463	13.029	3.544	1.00 0.00	H
ATOM	4504	HG13	ILE	278	71.714	11.417	2.943	1.00 0.00	H
ATOM	4505	HD11	ILE	278	69.413	12.234	2.485	1.00 0.00	H
ATOM	4506	HD12	ILE	278	69.341	10.835	3.544	1.00 0.00	H
ATOM	4507	HD13	ILE	278	69.125	12.454	4.206	1.00 0.00	H
ATOM	4508	N	LEU	279	72.999	8.728	4.391	1.00109.89	N
ATOM	4509	CA	LEU	279	73.711	7.733	3.591	1.00109.89	C
ATOM	4510	C	LEU	279	73.096	6.315	3.644	1.00109.89	C
ATOM	4511	O	LEU	279	73.257	5.552	2.697	1.00109.89	O
ATOM	4512	CB	LEU	279	75.186	7.785	4.077	1.00109.89	C
ATOM	4513	CG	LEU	279	76.280	7.031	3.285	1.00109.89	C
ATOM	4514	CD1	LEU	279	76.432	5.557	3.688	1.00109.89	C
ATOM	4515	CD2	LEU	279	76.170	7.215	1.767	1.00109.89	C
ATOM	4516	H	LEU	279	73.562	9.275	5.019	1.00 0.00	H
ATOM	4517	HA	LEU	279	73.656	8.070	2.554	1.00 0.00	H
ATOM	4518	HB2	LEU	279	75.489	8.834	4.079	1.00 0.00	H
ATOM	4519	HB3	LEU	279	75.229	7.469	5.119	1.00 0.00	H
ATOM	4520	HG	LEU	279	77.223	7.497	3.575	1.00 0.00	H
ATOM	4521	HD11	LEU	279	77.336	5.131	3.257	1.00 0.00	H
ATOM	4522	HD12	LEU	279	76.511	5.454	4.770	1.00 0.00	H
ATOM	4523	HD13	LEU	279	75.602	4.939	3.351	1.00 0.00	H
ATOM	4524	HD21	LEU	279	77.034	6.784	1.264	1.00 0.00	H
ATOM	4525	HD22	LEU	279	75.285	6.731	1.354	1.00 0.00	H
ATOM	4526	HD23	LEU	279	76.132	8.271	1.503	1.00 0.00	H
ATOM	4527	N	VAL	280	72.369	5.969	4.715	1.00 95.51	N
ATOM	4528	CA	VAL	280	71.742	4.665	4.934	1.00 95.51	C

ATOM	4529	C	VAL	280	70.215	4.786	5.112	1.00	95.51	C
ATOM	4530	O	VAL	280	69.604	3.893	5.695	1.00	95.51	O
ATOM	4531	CB	VAL	280	72.476	3.874	6.059	1.00	95.51	C
ATOM	4532	CG1	VAL	280	73.933	3.548	5.683	1.00	95.51	C
ATOM	4533	CG2	VAL	280	72.424	4.550	7.442	1.00	95.51	C
ATOM	4534	H	VAL	280	72.169	6.673	5.420	1.00	0.00	H
ATOM	4535	HA	VAL	280	71.835	4.063	4.029	1.00	0.00	H
ATOM	4536	HB	VAL	280	71.959	2.916	6.151	1.00	0.00	H
ATOM	4537	HG11	VAL	280	74.382	2.853	6.392	1.00	0.00	H
ATOM	4538	HG12	VAL	280	73.986	3.085	4.697	1.00	0.00	H
ATOM	4539	HG13	VAL	280	74.547	4.447	5.656	1.00	0.00	H
ATOM	4540	HG21	VAL	280	72.798	3.881	8.215	1.00	0.00	H
ATOM	4541	HG22	VAL	280	73.018	5.463	7.456	1.00	0.00	H
ATOM	4542	HG23	VAL	280	71.401	4.814	7.716	1.00	0.00	H
ATOM	4543	N	VAL	281	69.599	5.861	4.596	1.00	91.88	N
ATOM	4544	CA	VAL	281	68.145	6.028	4.493	1.00	91.88	C
ATOM	4545	C	VAL	281	67.718	6.497	3.091	1.00	91.88	C
ATOM	4546	O	VAL	281	66.711	6.014	2.582	1.00	91.88	O
ATOM	4547	CB	VAL	281	67.532	6.836	5.669	1.00	91.88	C
ATOM	4548	CG1	VAL	281	67.564	6.065	7.000	1.00	91.88	C
ATOM	4549	CG2	VAL	281	68.158	8.224	5.853	1.00	91.88	C
ATOM	4550	H	VAL	281	70.179	6.578	4.180	1.00	0.00	H
ATOM	4551	HA	VAL	281	67.693	5.037	4.561	1.00	0.00	H
ATOM	4552	HB	VAL	281	66.479	6.991	5.423	1.00	0.00	H
ATOM	4553	HG11	VAL	281	67.018	6.599	7.777	1.00	0.00	H
ATOM	4554	HG12	VAL	281	67.106	5.080	6.895	1.00	0.00	H
ATOM	4555	HG13	VAL	281	68.585	5.917	7.353	1.00	0.00	H
ATOM	4556	HG21	VAL	281	67.583	8.824	6.558	1.00	0.00	H
ATOM	4557	HG22	VAL	281	69.165	8.137	6.246	1.00	0.00	H
ATOM	4558	HG23	VAL	281	68.211	8.774	4.915	1.00	0.00	H
ATOM	4559	N	LEU	282	68.503	7.361	2.425	1.00	94.82	N
ATOM	4560	CA	LEU	282	68.236	7.840	1.059	1.00	94.82	C
ATOM	4561	C	LEU	282	68.242	6.678	0.046	1.00	94.82	C
ATOM	4562	O	LEU	282	67.346	6.544	-0.784	1.00	94.82	O
ATOM	4563	CB	LEU	282	69.304	8.901	0.700	1.00	94.82	C
ATOM	4564	CG	LEU	282	69.203	9.524	-0.712	1.00	94.82	C
ATOM	4565	CD1	LEU	282	67.882	10.276	-0.923	1.00	94.82	C
ATOM	4566	CD2	LEU	282	70.392	10.460	-0.969	1.00	94.82	C
ATOM	4567	H	LEU	282	69.301	7.769	2.901	1.00	0.00	H
ATOM	4568	HA	LEU	282	67.247	8.300	1.050	1.00	0.00	H
ATOM	4569	HB2	LEU	282	69.257	9.708	1.432	1.00	0.00	H
ATOM	4570	HB3	LEU	282	70.295	8.460	0.812	1.00	0.00	H
ATOM	4571	HG	LEU	282	69.258	8.735	-1.464	1.00	0.00	H
ATOM	4572	HD11	LEU	282	67.850	10.730	-1.914	1.00	0.00	H
ATOM	4573	HD12	LEU	282	67.020	9.613	-0.853	1.00	0.00	H
ATOM	4574	HD13	LEU	282	67.759	11.074	-0.188	1.00	0.00	H
ATOM	4575	HD21	LEU	282	70.344	10.901	-1.965	1.00	0.00	H
ATOM	4576	HD22	LEU	282	70.408	11.281	-0.251	1.00	0.00	H
ATOM	4577	HD23	LEU	282	71.342	9.931	-0.893	1.00	0.00	H
ATOM	4578	N	ILE	283	69.220	5.778	0.186	1.00	89.67	N
ATOM	4579	CA	ILE	283	69.391	4.569	-0.619	1.00	89.67	C
ATOM	4580	C	ILE	283	68.277	3.521	-0.371	1.00	89.67	C
ATOM	4581	O	ILE	283	68.163	2.565	-1.133	1.00	89.67	O
ATOM	4582	CB	ILE	283	70.816	4.016	-0.310	1.00	89.67	C
ATOM	4583	CG2	ILE	283	70.991	3.555	1.156	1.00	89.67	C
ATOM	4584	CG1	ILE	283	71.265	2.922	-1.306	1.00	89.67	C

ATOM	4585	CD1	ILE	283	72.779	2.668	-1.313	1.00	89.67	C
ATOM	4586	H	ILE	283	69.903	5.950	0.904	1.00	0.00	H
ATOM	4587	HA	ILE	283	69.338	4.857	-1.671	1.00	0.00	H
ATOM	4588	HB	ILE	283	71.501	4.852	-0.462	1.00	0.00	H
ATOM	4589	HG21	ILE	283	72.035	3.333	1.379	1.00	0.00	H
ATOM	4590	HG22	ILE	283	70.677	4.321	1.865	1.00	0.00	H
ATOM	4591	HG23	ILE	283	70.414	2.654	1.365	1.00	0.00	H
ATOM	4592	HG12	ILE	283	70.742	1.985	-1.107	1.00	0.00	H
ATOM	4593	HG13	ILE	283	70.969	3.214	-2.316	1.00	0.00	H
ATOM	4594	HD11	ILE	283	73.042	1.945	-2.086	1.00	0.00	H
ATOM	4595	HD12	ILE	283	73.335	3.583	-1.519	1.00	0.00	H
ATOM	4596	HD13	ILE	283	73.127	2.266	-0.362	1.00	0.00	H
ATOM	4597	N	ILE	284	67.456	3.686	0.678	1.00	84.98	N
ATOM	4598	CA	ILE	284	66.386	2.756	1.028	1.00	84.98	C
ATOM	4599	C	ILE	284	65.093	3.178	0.307	1.00	84.98	C
ATOM	4600	O	ILE	284	64.422	2.309	-0.239	1.00	84.98	O
ATOM	4601	CB	ILE	284	66.190	2.720	2.574	1.00	84.98	C
ATOM	4602	CG2	ILE	284	65.108	1.716	3.023	1.00	84.98	C
ATOM	4603	CG1	ILE	284	67.512	2.467	3.345	1.00	84.98	C
ATOM	4604	CD1	ILE	284	68.194	1.122	3.049	1.00	84.98	C
ATOM	4605	H	ILE	284	67.518	4.544	1.206	1.00	0.00	H
ATOM	4606	HA	ILE	284	66.639	1.749	0.687	1.00	0.00	H
ATOM	4607	HB	ILE	284	65.827	3.699	2.888	1.00	0.00	H
ATOM	4608	HG21	ILE	284	65.035	1.669	4.109	1.00	0.00	H
ATOM	4609	HG22	ILE	284	64.120	1.992	2.651	1.00	0.00	H
ATOM	4610	HG23	ILE	284	65.317	0.710	2.658	1.00	0.00	H
ATOM	4611	HG12	ILE	284	68.224	3.264	3.134	1.00	0.00	H
ATOM	4612	HG13	ILE	284	67.319	2.533	4.416	1.00	0.00	H
ATOM	4613	HD11	ILE	284	69.112	1.023	3.629	1.00	0.00	H
ATOM	4614	HD12	ILE	284	67.554	0.278	3.304	1.00	0.00	H
ATOM	4615	HD13	ILE	284	68.465	1.031	1.996	1.00	0.00	H
ATOM	4616	N	CYS	285	64.750	4.477	0.240	1.00	118.38	N
ATOM	4617	CA	CYS	285	63.578	4.942	-0.520	1.00	118.38	C
ATOM	4618	C	CYS	285	63.859	4.974	-2.037	1.00	118.38	C
ATOM	4619	O	CYS	285	62.950	4.734	-2.828	1.00	118.38	O
ATOM	4620	CB	CYS	285	63.087	6.321	-0.015	1.00	118.38	C
ATOM	4621	SG	CYS	285	64.404	7.539	0.286	1.00	118.38	S
ATOM	4622	H	CYS	285	65.333	5.180	0.677	1.00	0.00	H
ATOM	4623	HA	CYS	285	62.754	4.238	-0.377	1.00	0.00	H
ATOM	4624	HB2	CYS	285	62.376	6.749	-0.722	1.00	0.00	H
ATOM	4625	HB3	CYS	285	62.537	6.190	0.917	1.00	0.00	H
ATOM	4626	HG	CYS	285	63.587	8.555	0.587	1.00	0.00	H
ATOM	4627	N	TRP	286	65.119	5.172	-2.452	1.00	117.91	N
ATOM	4628	CA	TRP	286	65.555	5.067	-3.850	1.00	117.91	C
ATOM	4629	C	TRP	286	65.960	3.628	-4.232	1.00	117.91	C
ATOM	4630	O	TRP	286	66.361	3.381	-5.368	1.00	117.91	O
ATOM	4631	CB	TRP	286	66.741	6.026	-4.093	1.00	117.91	C
ATOM	4632	CG	TRP	286	66.330	7.451	-4.307	1.00	117.91	C
ATOM	4633	CD2	TRP	286	66.398	8.243	-5.532	1.00	117.91	C
ATOM	4634	CD1	TRP	286	65.736	8.245	-3.387	1.00	117.91	C
ATOM	4635	NE1	TRP	286	65.400	9.448	-3.968	1.00	117.91	N
ATOM	4636	CE2	TRP	286	65.798	9.514	-5.283	1.00	117.91	C
ATOM	4637	CE3	TRP	286	66.889	8.015	-6.839	1.00	117.91	C
ATOM	4638	CZ2	TRP	286	65.670	10.498	-6.276	1.00	117.91	C
ATOM	4639	CZ3	TRP	286	66.771	8.996	-7.844	1.00	117.91	C
ATOM	4640	CH2	TRP	286	66.155	10.232	-7.568	1.00	117.91	C

ATOM	4641	H	TRP	286	65.815	5.439	-1.764	1.00	0.00	H
ATOM	4642	HA	TRP	286	64.743	5.349	-4.524	1.00	0.00	H
ATOM	4643	HB2	TRP	286	67.468	5.973	-3.283	1.00	0.00	H
ATOM	4644	HB3	TRP	286	67.291	5.735	-4.989	1.00	0.00	H
ATOM	4645	HD1	TRP	286	65.518	7.944	-2.373	1.00	0.00	H
ATOM	4646	HE1	TRP	286	64.825	10.144	-3.509	1.00	0.00	H
ATOM	4647	HE3	TRP	286	67.361	7.073	-7.074	1.00	0.00	H
ATOM	4648	HZ2	TRP	286	65.206	11.447	-6.051	1.00	0.00	H
ATOM	4649	HZ3	TRP	286	67.171	8.801	-8.827	1.00	0.00	H
ATOM	4650	HH2	TRP	286	66.076	10.983	-8.341	1.00	0.00	H
ATOM	4651	N	GLY	287	65.790	2.651	-3.333	1.00	44.40	N
ATOM	4652	CA	GLY	287	66.194	1.261	-3.539	1.00	44.40	C
ATOM	4653	C	GLY	287	65.180	0.515	-4.419	1.00	44.40	C
ATOM	4654	O	GLY	287	65.560	0.082	-5.507	1.00	44.40	O
ATOM	4655	H	GLY	287	65.409	2.902	-2.431	1.00	0.00	H
ATOM	4656	HA2	GLY	287	67.184	1.220	-3.998	1.00	0.00	H
ATOM	4657	HA3	GLY	287	66.281	0.764	-2.573	1.00	0.00	H
ATOM	4658	N	PRO	288	63.887	0.429	-4.027	1.00	78.49	N
ATOM	4659	CA	PRO	288	62.779	-0.013	-4.894	1.00	78.49	C
ATOM	4660	C	PRO	288	62.637	0.740	-6.234	1.00	78.49	C
ATOM	4661	O	PRO	288	61.967	0.232	-7.126	1.00	78.49	O
ATOM	4662	CD	PRO	288	63.411	0.666	-2.664	1.00	78.49	C
ATOM	4663	CB	PRO	288	61.506	0.211	-4.060	1.00	78.49	C
ATOM	4664	CG	PRO	288	61.973	0.154	-2.618	1.00	78.49	C
ATOM	4665	HA	PRO	288	62.912	-1.076	-5.099	1.00	0.00	H
ATOM	4666	HD3	PRO	288	64.032	0.185	-1.907	1.00	0.00	H
ATOM	4667	HD2	PRO	288	63.405	1.741	-2.483	1.00	0.00	H
ATOM	4668	HB2	PRO	288	61.083	1.200	-4.249	1.00	0.00	H
ATOM	4669	HB3	PRO	288	60.731	-0.523	-4.282	1.00	0.00	H
ATOM	4670	HG3	PRO	288	61.969	-0.884	-2.283	1.00	0.00	H
ATOM	4671	HG2	PRO	288	61.340	0.720	-1.935	1.00	0.00	H
ATOM	4672	N	LEU	289	63.224	1.938	-6.382	1.00	143.89	N
ATOM	4673	CA	LEU	289	63.269	2.671	-7.645	1.00	143.89	C
ATOM	4674	C	LEU	289	64.355	2.047	-8.538	1.00	143.89	C
ATOM	4675	O	LEU	289	64.051	1.567	-9.628	1.00	143.89	O
ATOM	4676	CB	LEU	289	63.607	4.157	-7.369	1.00	143.89	C
ATOM	4677	CG	LEU	289	63.396	5.072	-8.593	1.00	143.89	C
ATOM	4678	CD1	LEU	289	61.916	5.435	-8.734	1.00	143.89	C
ATOM	4679	CD2	LEU	289	64.272	6.332	-8.524	1.00	143.89	C
ATOM	4680	H	LEU	289	63.761	2.308	-5.615	1.00	0.00	H
ATOM	4681	HA	LEU	289	62.304	2.593	-8.148	1.00	0.00	H
ATOM	4682	HB2	LEU	289	63.002	4.530	-6.541	1.00	0.00	H
ATOM	4683	HB3	LEU	289	64.639	4.252	-7.034	1.00	0.00	H
ATOM	4684	HG	LEU	289	63.700	4.545	-9.499	1.00	0.00	H
ATOM	4685	HD11	LEU	289	61.723	5.962	-9.664	1.00	0.00	H
ATOM	4686	HD12	LEU	289	61.271	4.557	-8.739	1.00	0.00	H
ATOM	4687	HD13	LEU	289	61.593	6.074	-7.915	1.00	0.00	H
ATOM	4688	HD21	LEU	289	64.105	6.975	-9.388	1.00	0.00	H
ATOM	4689	HD22	LEU	289	64.075	6.920	-7.629	1.00	0.00	H
ATOM	4690	HD23	LEU	289	65.331	6.071	-8.522	1.00	0.00	H
ATOM	4691	N	LEU	290	65.603	2.003	-8.046	1.00	137.09	N
ATOM	4692	CA	LEU	290	66.791	1.489	-8.735	1.00	137.09	C
ATOM	4693	C	LEU	290	66.623	0.024	-9.177	1.00	137.09	C
ATOM	4694	O	LEU	290	67.064	-0.356	-10.258	1.00	137.09	O
ATOM	4695	CB	LEU	290	68.007	1.703	-7.797	1.00	137.09	C
ATOM	4696	CG	LEU	290	69.431	1.445	-8.351	1.00	137.09	C

ATOM	4697	CD1 LEU	290	69.865	-0.030	-8.301	1.00137.09	C
ATOM	4698	CD2 LEU	290	69.671	2.067	-9.737	1.00137.09	C
ATOM	4699	H LEU	290	65.761	2.402	-7.129	1.00 0.00	H
ATOM	4700	HA LEU	290	66.920	2.089	-9.634	1.00 0.00	H
ATOM	4701	HB2 LEU	290	67.986	2.748	-7.482	1.00 0.00	H
ATOM	4702	HB3 LEU	290	67.866	1.130	-6.879	1.00 0.00	H
ATOM	4703	HG LEU	290	70.104	1.963	-7.666	1.00 0.00	H
ATOM	4704	HD11 LEU	290	70.932	-0.127	-8.503	1.00 0.00	H
ATOM	4705	HD12 LEU	290	69.677	-0.469	-7.321	1.00 0.00	H
ATOM	4706	HD13 LEU	290	69.350	-0.639	-9.043	1.00 0.00	H
ATOM	4707	HD21 LEU	290	70.722	2.003	-10.020	1.00 0.00	H
ATOM	4708	HD22 LEU	290	69.096	1.560	-10.513	1.00 0.00	H
ATOM	4709	HD23 LEU	290	69.390	3.120	-9.754	1.00 0.00	H
ATOM	4710	N ALA	291	65.922	-0.776	-8.364	1.00 42.21	N
ATOM	4711	CA ALA	291	65.632	-2.183	-8.622	1.00 42.21	C
ATOM	4712	C ALA	291	64.541	-2.417	-9.687	1.00 42.21	C
ATOM	4713	O ALA	291	64.344	-3.566	-10.075	1.00 42.21	O
ATOM	4714	CB ALA	291	65.147	-2.805	-7.301	1.00 42.21	C
ATOM	4715	H ALA	291	65.603	-0.377	-7.489	1.00 0.00	H
ATOM	4716	HA ALA	291	66.543	-2.686	-8.951	1.00 0.00	H
ATOM	4717	HB1 ALA	291	64.945	-3.871	-7.420	1.00 0.00	H
ATOM	4718	HB2 ALA	291	65.897	-2.701	-6.517	1.00 0.00	H
ATOM	4719	HB3 ALA	291	64.227	-2.334	-6.951	1.00 0.00	H
ATOM	4720	N ILE	292	63.825	-1.374	-10.137	1.00114.50	N
ATOM	4721	CA ILE	292	62.678	-1.480	-11.047	1.00114.50	C
ATOM	4722	C ILE	292	62.858	-0.605	-12.302	1.00114.50	C
ATOM	4723	O ILE	292	62.341	-0.969	-13.358	1.00114.50	O
ATOM	4724	CB ILE	292	61.347	-1.204	-10.274	1.00114.50	C
ATOM	4725	CG2 ILE	292	60.085	-1.199	-11.167	1.00114.50	C
ATOM	4726	CG1 ILE	292	61.122	-2.135	-9.055	1.00114.50	C
ATOM	4727	CD1 ILE	292	60.862	-3.613	-9.393	1.00114.50	C
ATOM	4728	H ILE	292	64.055	-0.456	-9.779	1.00 0.00	H
ATOM	4729	HA ILE	292	62.618	-2.497	-11.439	1.00 0.00	H
ATOM	4730	HB ILE	292	61.435	-0.194	-9.869	1.00 0.00	H
ATOM	4731	HG21 ILE	292	59.184	-1.042	-10.575	1.00 0.00	H
ATOM	4732	HG22 ILE	292	60.116	-0.407	-11.914	1.00 0.00	H
ATOM	4733	HG23 ILE	292	59.974	-2.140	-11.706	1.00 0.00	H
ATOM	4734	HG12 ILE	292	61.973	-2.077	-8.377	1.00 0.00	H
ATOM	4735	HG13 ILE	292	60.279	-1.758	-8.476	1.00 0.00	H
ATOM	4736	HD11 ILE	292	60.744	-4.198	-8.482	1.00 0.00	H
ATOM	4737	HD12 ILE	292	59.955	-3.742	-9.982	1.00 0.00	H
ATOM	4738	HD13 ILE	292	61.690	-4.051	-9.951	1.00 0.00	H
ATOM	4739	N MET	293	63.569	0.533	-12.215	1.00157.44	N
ATOM	4740	CA MET	293	63.648	1.586	-13.243	1.00157.44	C
ATOM	4741	C MET	293	64.035	1.153	-14.667	1.00157.44	C
ATOM	4742	O MET	293	63.664	1.821	-15.625	1.00157.44	O
ATOM	4743	CB MET	293	64.496	2.781	-12.757	1.00157.44	C
ATOM	4744	CG MET	293	66.012	2.555	-12.655	1.00157.44	C
ATOM	4745	SD MET	293	66.899	3.903	-11.814	1.00157.44	S
ATOM	4746	CE MET	293	66.385	5.332	-12.809	1.00157.44	C
ATOM	4747	H MET	293	63.913	0.790	-11.294	1.00 0.00	H
ATOM	4748	HA MET	293	62.626	1.950	-13.351	1.00 0.00	H
ATOM	4749	HB2 MET	293	64.310	3.614	-13.438	1.00 0.00	H
ATOM	4750	HB3 MET	293	64.131	3.112	-11.788	1.00 0.00	H
ATOM	4751	HG2 MET	293	66.215	1.634	-12.108	1.00 0.00	H
ATOM	4752	HG3 MET	293	66.442	2.428	-13.649	1.00 0.00	H

ATOM	4753	HE1 MET	293	66.970	6.212	-12.546	1.00	0.00	H
ATOM	4754	HE2 MET	293	66.519	5.134	-13.871	1.00	0.00	H
ATOM	4755	HE3 MET	293	65.333	5.562	-12.639	1.00	0.00	H
ATOM	4756	N VAL	294	64.702	0.004	-14.832	1.00	49.92	N
ATOM	4757	CA VAL	294	64.976	-0.638	-16.123	1.00	49.92	C
ATOM	4758	C VAL	294	63.671	-0.920	-16.911	1.00	49.92	C
ATOM	4759	O VAL	294	63.655	-0.859	-18.140	1.00	49.92	O
ATOM	4760	CB VAL	294	65.816	-1.926	-15.883	1.00	49.92	C
ATOM	4761	CG1 VAL	294	66.275	-2.594	-17.195	1.00	49.92	C
ATOM	4762	CG2 VAL	294	67.047	-1.669	-14.988	1.00	49.92	C
ATOM	4763	H VAL	294	64.919	-0.517	-13.997	1.00	0.00	H
ATOM	4764	HA VAL	294	65.566	0.059	-16.721	1.00	0.00	H
ATOM	4765	HB VAL	294	65.184	-2.648	-15.362	1.00	0.00	H
ATOM	4766	HG11 VAL	294	66.879	-3.480	-16.999	1.00	0.00	H
ATOM	4767	HG12 VAL	294	65.433	-2.918	-17.808	1.00	0.00	H
ATOM	4768	HG13 VAL	294	66.876	-1.912	-17.798	1.00	0.00	H
ATOM	4769	HG21 VAL	294	67.645	-2.574	-14.873	1.00	0.00	H
ATOM	4770	HG22 VAL	294	67.693	-0.901	-15.416	1.00	0.00	H
ATOM	4771	HG23 VAL	294	66.773	-1.349	-13.982	1.00	0.00	H
ATOM	4772	N TYR	295	62.556	-1.149	-16.203	1.00	95.10	N
ATOM	4773	CA TYR	295	61.232	-1.374	-16.776	1.00	95.10	C
ATOM	4774	C TYR	295	60.569	-0.076	-17.293	1.00	95.10	C
ATOM	4775	O TYR	295	59.522	-0.150	-17.929	1.00	95.10	O
ATOM	4776	CB TYR	295	60.342	-2.058	-15.714	1.00	95.10	C
ATOM	4777	CG TYR	295	59.273	-2.951	-16.319	1.00	95.10	C
ATOM	4778	CD1 TYR	295	59.594	-4.265	-16.724	1.00	95.10	C
ATOM	4779	CD2 TYR	295	57.975	-2.452	-16.542	1.00	95.10	C
ATOM	4780	CE1 TYR	295	58.629	-5.064	-17.368	1.00	95.10	C
ATOM	4781	CE2 TYR	295	57.015	-3.250	-17.189	1.00	95.10	C
ATOM	4782	CZ TYR	295	57.341	-4.552	-17.611	1.00	95.10	C
ATOM	4783	OH TYR	295	56.424	-5.308	-18.277	1.00	95.10	O
ATOM	4784	H TYR	295	62.614	-1.105	-15.188	1.00	0.00	H
ATOM	4785	HA TYR	295	61.338	-2.054	-17.616	1.00	0.00	H
ATOM	4786	HB2 TYR	295	60.948	-2.690	-15.064	1.00	0.00	H
ATOM	4787	HB3 TYR	295	59.883	-1.319	-15.055	1.00	0.00	H
ATOM	4788	HD1 TYR	295	60.589	-4.657	-16.569	1.00	0.00	H
ATOM	4789	HD2 TYR	295	57.726	-1.439	-16.262	1.00	0.00	H
ATOM	4790	HE1 TYR	295	58.883	-6.062	-17.693	1.00	0.00	H
ATOM	4791	HE2 TYR	295	56.038	-2.842	-17.380	1.00	0.00	H
ATOM	4792	HH TYR	295	55.597	-4.840	-18.416	1.00	0.00	H
ATOM	4793	N ASP	296	61.165	1.104	-17.062	1.00	182.06	N
ATOM	4794	CA ASP	296	60.678	2.383	-17.595	1.00	182.06	C
ATOM	4795	C ASP	296	61.109	2.537	-19.067	1.00	182.06	C
ATOM	4796	O ASP	296	60.289	2.852	-19.928	1.00	182.06	O
ATOM	4797	CB ASP	296	61.265	3.533	-16.748	1.00	182.06	C
ATOM	4798	CG ASP	296	60.582	4.874	-16.974	1.00	182.06	C
ATOM	4799	OD1 ASP	296	59.378	5.017	-16.668	1.00	182.06	O
ATOM	4800	OD2 ASP	296	61.256	5.845	-17.373	1.00	182.06	O1-
ATOM	4801	H ASP	296	62.031	1.122	-16.537	1.00	0.00	H
ATOM	4802	HA ASP	296	59.587	2.412	-17.535	1.00	0.00	H
ATOM	4803	HB2 ASP	296	61.167	3.299	-15.690	1.00	0.00	H
ATOM	4804	HB3 ASP	296	62.330	3.656	-16.931	1.00	0.00	H
ATOM	4805	N VAL	297	62.379	2.227	-19.380	1.00	120.34	N
ATOM	4806	CA VAL	297	62.896	2.201	-20.753	1.00	120.34	C
ATOM	4807	C VAL	297	62.509	0.897	-21.474	1.00	120.34	C
ATOM	4808	O VAL	297	62.184	0.936	-22.659	1.00	120.34	O

ATOM	4809	CB VAL	297	64.432	2.408	-20.781	1.00120.34	C
ATOM	4810	CG1 VAL	297	64.762	3.893	-20.579	1.00120.34	C
ATOM	4811	CG2 VAL	297	65.228	1.515	-19.806	1.00120.34	C
ATOM	4812	H VAL	297	62.997	1.949	-18.634	1.00 0.00	H
ATOM	4813	HA VAL	297	62.429	3.014	-21.312	1.00 0.00	H
ATOM	4814	HB VAL	297	64.789	2.163	-21.784	1.00 0.00	H
ATOM	4815	HG11 VAL	297	65.834	4.069	-20.615	1.00 0.00	H
ATOM	4816	HG12 VAL	297	64.317	4.512	-21.358	1.00 0.00	H
ATOM	4817	HG13 VAL	297	64.388	4.258	-19.626	1.00 0.00	H
ATOM	4818	HG21 VAL	297	66.297	1.720	-19.887	1.00 0.00	H
ATOM	4819	HG22 VAL	297	64.946	1.674	-18.767	1.00 0.00	H
ATOM	4820	HG23 VAL	297	65.092	0.458	-20.033	1.00 0.00	H
ATOM	4821	N PHE	298	62.390	-0.230	-20.758	1.00161.37	N
ATOM	4822	CA PHE	298	61.755	-1.458	-21.258	1.00161.37	C
ATOM	4823	C PHE	298	60.216	-1.371	-21.069	1.00161.37	C
ATOM	4824	O PHE	298	59.534	-2.371	-20.857	1.00161.37	O
ATOM	4825	CB PHE	298	62.370	-2.676	-20.528	1.00161.37	C
ATOM	4826	CG PHE	298	62.152	-4.024	-21.197	1.00161.37	C
ATOM	4827	CD1 PHE	298	62.863	-4.352	-22.370	1.00161.37	C
ATOM	4828	CD2 PHE	298	61.238	-4.952	-20.654	1.00161.37	C
ATOM	4829	CE1 PHE	298	62.654	-5.594	-23.001	1.00161.37	C
ATOM	4830	CE2 PHE	298	61.024	-6.191	-21.288	1.00161.37	C
ATOM	4831	CZ PHE	298	61.733	-6.512	-22.462	1.00161.37	C
ATOM	4832	H PHE	298	62.683	-0.219	-19.788	1.00 0.00	H
ATOM	4833	HA PHE	298	61.957	-1.561	-22.326	1.00 0.00	H
ATOM	4834	HB2 PHE	298	63.449	-2.539	-20.444	1.00 0.00	H
ATOM	4835	HB3 PHE	298	62.006	-2.731	-19.507	1.00 0.00	H
ATOM	4836	HD1 PHE	298	63.567	-3.650	-22.795	1.00 0.00	H
ATOM	4837	HD2 PHE	298	60.677	-4.706	-19.763	1.00 0.00	H
ATOM	4838	HE1 PHE	298	63.196	-5.838	-23.903	1.00 0.00	H
ATOM	4839	HE2 PHE	298	60.307	-6.888	-20.880	1.00 0.00	H
ATOM	4840	HZ PHE	298	61.565	-7.460	-22.951	1.00 0.00	H
ATOM	4841	N GLY	299	59.670	-0.153	-21.149	1.00 54.11	N
ATOM	4842	CA GLY	299	58.260	0.205	-21.113	1.00 54.11	C
ATOM	4843	C GLY	299	57.848	0.983	-22.369	1.00 54.11	C
ATOM	4844	O GLY	299	56.713	1.443	-22.458	1.00 54.11	O
ATOM	4845	H GLY	299	60.310	0.624	-21.236	1.00 0.00	H
ATOM	4846	HA2 GLY	299	57.614	-0.668	-20.999	1.00 0.00	H
ATOM	4847	HA3 GLY	299	58.094	0.838	-20.244	1.00 0.00	H
ATOM	4848	N LYS	300	58.742	1.134	-23.361	1.00124.19	N
ATOM	4849	CA LYS	300	58.504	1.831	-24.630	1.00124.19	C
ATOM	4850	C LYS	300	57.639	0.950	-25.564	1.00124.19	C
ATOM	4851	O LYS	300	58.125	0.408	-26.553	1.00124.19	O
ATOM	4852	CB LYS	300	59.869	2.155	-25.293	1.00124.19	C
ATOM	4853	CG LYS	300	60.719	3.199	-24.537	1.00124.19	C
ATOM	4854	CD LYS	300	62.100	3.437	-25.187	1.00124.19	C
ATOM	4855	CE LYS	300	63.134	4.016	-24.205	1.00124.19	C
ATOM	4856	NZ LYS	300	64.405	4.363	-24.847	1.00124.19	N1+
ATOM	4857	H LYS	300	59.655	0.721	-23.234	1.00 0.00	H
ATOM	4858	HA LYS	300	57.966	2.764	-24.445	1.00 0.00	H
ATOM	4859	HB2 LYS	300	60.442	1.233	-25.411	1.00 0.00	H
ATOM	4860	HB3 LYS	300	59.699	2.528	-26.305	1.00 0.00	H
ATOM	4861	HG2 LYS	300	60.179	4.145	-24.477	1.00 0.00	H
ATOM	4862	HG3 LYS	300	60.849	2.875	-23.505	1.00 0.00	H
ATOM	4863	HD2 LYS	300	62.491	2.493	-25.572	1.00 0.00	H
ATOM	4864	HD3 LYS	300	61.983	4.096	-26.049	1.00 0.00	H

ATOM	4865	HE2 LYS	300	62.750	4.904	-23.708	1.00	0.00	H
ATOM	4866	HE3 LYS	300	63.354	3.281	-23.434	1.00	0.00	H
ATOM	4867	HZ1 LYS	300	65.135	4.502	-24.144	1.00	0.00	H
ATOM	4868	HZ2 LYS	300	64.848	3.566	-25.319	1.00	0.00	H
ATOM	4869	HZ3 LYS	300	64.372	5.202	-25.447	1.00	0.00	H
ATOM	4870	N MET	301	56.362	0.769	-25.202	1.00	165.77	N
ATOM	4871	CA MET	301	55.311	0.005	-25.894	1.00	165.77	C
ATOM	4872	C MET	301	55.265	-1.481	-25.480	1.00	165.77	C
ATOM	4873	O MET	301	54.456	-2.258	-25.986	1.00	165.77	O
ATOM	4874	CB MET	301	55.216	0.319	-27.411	1.00	165.77	C
ATOM	4875	CG MET	301	53.888	-0.060	-28.099	1.00	165.77	C
ATOM	4876	SD MET	301	52.350	0.562	-27.349	1.00	165.77	S
ATOM	4877	CE MET	301	52.588	2.358	-27.449	1.00	165.77	C
ATOM	4878	H MET	301	56.109	1.173	-24.302	1.00	0.00	H
ATOM	4879	HA MET	301	54.402	0.410	-25.452	1.00	0.00	H
ATOM	4880	HB2 MET	301	55.380	1.386	-27.561	1.00	0.00	H
ATOM	4881	HB3 MET	301	56.030	-0.180	-27.937	1.00	0.00	H
ATOM	4882	HG2 MET	301	53.916	0.289	-29.131	1.00	0.00	H
ATOM	4883	HG3 MET	301	53.803	-1.144	-28.164	1.00	0.00	H
ATOM	4884	HE1 MET	301	51.701	2.870	-27.074	1.00	0.00	H
ATOM	4885	HE2 MET	301	53.439	2.670	-26.843	1.00	0.00	H
ATOM	4886	HE3 MET	301	52.756	2.669	-28.480	1.00	0.00	H
ATOM	4887	N ASN	302	56.085	-1.856	-24.494	1.00	68.90	N
ATOM	4888	CA ASN	302	55.881	-3.028	-23.642	1.00	68.90	C
ATOM	4889	C ASN	302	54.959	-2.574	-22.492	1.00	68.90	C
ATOM	4890	O ASN	302	54.953	-1.400	-22.123	1.00	68.90	O
ATOM	4891	CB ASN	302	57.248	-3.477	-23.071	1.00	68.90	C
ATOM	4892	CG ASN	302	57.134	-4.641	-22.079	1.00	68.90	C
ATOM	4893	OD1 ASN	302	56.395	-5.594	-22.314	1.00	68.90	O
ATOM	4894	ND2 ASN	302	57.755	-4.516	-20.915	1.00	68.90	N
ATOM	4895	H ASN	302	56.646	-1.111	-24.110	1.00	0.00	H
ATOM	4896	HA ASN	302	55.417	-3.842	-24.203	1.00	0.00	H
ATOM	4897	HB2 ASN	302	57.903	-3.792	-23.883	1.00	0.00	H
ATOM	4898	HB3 ASN	302	57.736	-2.629	-22.594	1.00	0.00	H
ATOM	4899	HD22 ASN	302	57.566	-5.168	-20.164	1.00	0.00	H
ATOM	4900	HD21 ASN	302	58.384	-3.722	-20.759	1.00	0.00	H
ATOM	4901	N LYS	303	54.185	-3.505	-21.925	1.00	107.19	N
ATOM	4902	CA LYS	303	53.203	-3.244	-20.881	1.00	107.19	C
ATOM	4903	C LYS	303	53.878	-2.926	-19.535	1.00	107.19	C
ATOM	4904	O LYS	303	54.167	-3.826	-18.741	1.00	107.19	O
ATOM	4905	CB LYS	303	52.304	-4.488	-20.702	1.00	107.19	C
ATOM	4906	CG LYS	303	51.300	-4.723	-21.840	1.00	107.19	C
ATOM	4907	CD LYS	303	50.351	-5.884	-21.501	1.00	107.19	C
ATOM	4908	CE LYS	303	49.329	-6.216	-22.596	1.00	107.19	C
ATOM	4909	NZ LYS	303	48.277	-5.201	-22.727	1.00	107.19	N1+
ATOM	4910	H LYS	303	54.361	-4.468	-22.181	1.00	0.00	H
ATOM	4911	HA LYS	303	52.581	-2.392	-21.169	1.00	0.00	H
ATOM	4912	HB2 LYS	303	52.919	-5.378	-20.554	1.00	0.00	H
ATOM	4913	HB3 LYS	303	51.731	-4.369	-19.779	1.00	0.00	H
ATOM	4914	HG2 LYS	303	50.727	-3.811	-22.000	1.00	0.00	H
ATOM	4915	HG3 LYS	303	51.831	-4.925	-22.771	1.00	0.00	H
ATOM	4916	HD2 LYS	303	50.951	-6.776	-21.315	1.00	0.00	H
ATOM	4917	HD3 LYS	303	49.828	-5.679	-20.564	1.00	0.00	H
ATOM	4918	HE2 LYS	303	49.809	-6.363	-23.564	1.00	0.00	H
ATOM	4919	HE3 LYS	303	48.834	-7.157	-22.350	1.00	0.00	H
ATOM	4920	HZ1 LYS	303	47.526	-5.644	-23.289	1.00	0.00	H

ATOM	4921	HZ2	LYS	303	47.867	-4.922	-21.838	1.00	0.00		H
ATOM	4922	HZ3	LYS	303	48.586	-4.356	-23.188	1.00	0.00		H
ATOM	4923	N	LEU	304	54.045	-1.633	-19.251	1.00	144.88		N
ATOM	4924	CA	LEU	304	53.839	-1.086	-17.915	1.00	144.88		C
ATOM	4925	C	LEU	304	52.378	-0.603	-17.845	1.00	144.88		C
ATOM	4926	O	LEU	304	51.673	-0.554	-18.853	1.00	144.88		O
ATOM	4927	CB	LEU	304	54.850	0.053	-17.603	1.00	144.88		C
ATOM	4928	CG	LEU	304	55.117	1.155	-18.660	1.00	144.88		C
ATOM	4929	CD1	LEU	304	53.949	2.138	-18.841	1.00	144.88		C
ATOM	4930	CD2	LEU	304	56.381	1.944	-18.275	1.00	144.88		C
ATOM	4931	H	LEU	304	53.847	-0.998	-20.014	1.00	0.00		H
ATOM	4932	HA	LEU	304	53.951	-1.864	-17.157	1.00	0.00		H
ATOM	4933	HB2	LEU	304	54.595	0.523	-16.651	1.00	0.00		H
ATOM	4934	HB3	LEU	304	55.803	-0.440	-17.413	1.00	0.00		H
ATOM	4935	HG	LEU	304	55.325	0.679	-19.620	1.00	0.00		H
ATOM	4936	HD11	LEU	304	54.217	2.930	-19.542	1.00	0.00		H
ATOM	4937	HD12	LEU	304	53.065	1.653	-19.249	1.00	0.00		H
ATOM	4938	HD13	LEU	304	53.676	2.606	-17.896	1.00	0.00		H
ATOM	4939	HD21	LEU	304	56.654	2.660	-19.051	1.00	0.00		H
ATOM	4940	HD22	LEU	304	56.244	2.499	-17.346	1.00	0.00		H
ATOM	4941	HD23	LEU	304	57.238	1.286	-18.134	1.00	0.00		H
ATOM	4942	N	ILE	305	51.913	-0.280	-16.641	1.00	98.92		N
ATOM	4943	CA	ILE	305	50.570	0.188	-16.329	1.00	98.92		C
ATOM	4944	C	ILE	305	50.695	1.021	-15.044	1.00	98.92		C
ATOM	4945	O	ILE	305	51.617	0.769	-14.266	1.00	98.92		O
ATOM	4946	CB	ILE	305	49.575	-1.011	-16.270	1.00	98.92		C
ATOM	4947	CG2	ILE	305	49.958	-2.055	-15.197	1.00	98.92		C
ATOM	4948	CG1	ILE	305	48.106	-0.551	-16.125	1.00	98.92		C
ATOM	4949	CD1	ILE	305	47.082	-1.693	-16.167	1.00	98.92		C
ATOM	4950	H	ILE	305	52.547	-0.276	-15.854	1.00	0.00		H
ATOM	4951	HA	ILE	305	50.260	0.858	-17.134	1.00	0.00		H
ATOM	4952	HB	ILE	305	49.637	-1.519	-17.234	1.00	0.00		H
ATOM	4953	HG21	ILE	305	49.340	-2.950	-15.269	1.00	0.00		H
ATOM	4954	HG22	ILE	305	50.987	-2.389	-15.319	1.00	0.00		H
ATOM	4955	HG23	ILE	305	49.848	-1.658	-14.188	1.00	0.00		H
ATOM	4956	HG12	ILE	305	47.965	-0.007	-15.194	1.00	0.00		H
ATOM	4957	HG13	ILE	305	47.873	0.148	-16.931	1.00	0.00		H
ATOM	4958	HD11	ILE	305	46.069	-1.299	-16.234	1.00	0.00		H
ATOM	4959	HD12	ILE	305	47.242	-2.340	-17.028	1.00	0.00		H
ATOM	4960	HD13	ILE	305	47.125	-2.311	-15.271	1.00	0.00		H
ATOM	4961	N	LYS	306	49.781	1.978	-14.838	1.00	147.31		N
ATOM	4962	CA	LYS	306	49.532	2.961	-13.761	1.00	147.31		C
ATOM	4963	C	LYS	306	49.895	2.673	-12.277	1.00	147.31		C
ATOM	4964	O	LYS	306	49.370	3.323	-11.378	1.00	147.31		O
ATOM	4965	CB	LYS	306	48.100	3.508	-13.951	1.00	147.31		C
ATOM	4966	CG	LYS	306	46.977	2.480	-13.667	1.00	147.31		C
ATOM	4967	CD	LYS	306	45.937	2.412	-14.797	1.00	147.31		C
ATOM	4968	CE	LYS	306	44.628	1.696	-14.414	1.00	147.31		C
ATOM	4969	NZ	LYS	306	43.675	1.699	-15.533	1.00	147.31		N1+
ATOM	4970	H	LYS	306	49.158	2.103	-15.631	1.00	0.00		H
ATOM	4971	HA	LYS	306	50.197	3.789	-14.012	1.00	0.00		H
ATOM	4972	HB2	LYS	306	47.947	4.375	-13.305	1.00	0.00		H
ATOM	4973	HB3	LYS	306	48.006	3.905	-14.962	1.00	0.00		H
ATOM	4974	HG2	LYS	306	47.387	1.485	-13.491	1.00	0.00		H
ATOM	4975	HG3	LYS	306	46.490	2.756	-12.730	1.00	0.00		H
ATOM	4976	HD2	LYS	306	45.698	3.429	-15.103	1.00	0.00		H

ATOM	4977	HD3 LYS	306	46.385	1.928	-15.666	1.00	0.00	H
ATOM	4978	HE2 LYS	306	44.815	0.664	-14.114	1.00	0.00	H
ATOM	4979	HE3 LYS	306	44.162	2.199	-13.566	1.00	0.00	H
ATOM	4980	HZ1 LYS	306	43.648	0.780	-16.024	1.00	0.00	H
ATOM	4981	HZ2 LYS	306	42.744	1.988	-15.247	1.00	0.00	H
ATOM	4982	HZ3 LYS	306	43.982	2.326	-16.275	1.00	0.00	H
ATOM	4983	N THR	307	50.779	1.721	-11.995	1.00	129.09	N
ATOM	4984	CA THR	307	51.268	1.322	-10.680	1.00	129.09	C
ATOM	4985	C THR	307	52.708	0.770	-10.785	1.00	129.09	C
ATOM	4986	O THR	307	53.548	1.047	-9.924	1.00	129.09	O
ATOM	4987	CB THR	307	50.215	0.419	-9.975	1.00	129.09	C
ATOM	4988	OG1 THR	307	50.593	0.104	-8.650	1.00	129.09	O
ATOM	4989	CG2 THR	307	49.947	-0.913	-10.697	1.00	129.09	C
ATOM	4990	H THR	307	51.203	1.283	-12.813	1.00	0.00	H
ATOM	4991	HA THR	307	51.355	2.233	-10.083	1.00	0.00	H
ATOM	4992	HB THR	307	49.272	0.965	-9.909	1.00	0.00	H
ATOM	4993	HG1 THR	307	50.537	0.888	-8.121	1.00	0.00	H
ATOM	4994	HG21 THR	307	49.169	-1.480	-10.186	1.00	0.00	H
ATOM	4995	HG22 THR	307	49.609	-0.751	-11.721	1.00	0.00	H
ATOM	4996	HG23 THR	307	50.838	-1.540	-10.732	1.00	0.00	H
ATOM	4997	N VAL	308	53.016	0.054	-11.881	1.00	243.88	N
ATOM	4998	CA VAL	308	54.310	-0.539	-12.207	1.00	243.88	C
ATOM	4999	C VAL	308	55.305	0.605	-12.462	1.00	243.88	C
ATOM	5000	O VAL	308	55.112	1.417	-13.364	1.00	243.88	O
ATOM	5001	CB VAL	308	54.152	-1.452	-13.457	1.00	243.88	C
ATOM	5002	CG1 VAL	308	55.471	-2.127	-13.882	1.00	243.88	C
ATOM	5003	CG2 VAL	308	53.073	-2.533	-13.248	1.00	243.88	C
ATOM	5004	H VAL	308	52.324	-0.006	-12.616	1.00	0.00	H
ATOM	5005	HA VAL	308	54.640	-1.141	-11.358	1.00	0.00	H
ATOM	5006	HB VAL	308	53.833	-0.831	-14.295	1.00	0.00	H
ATOM	5007	HG11 VAL	308	55.320	-2.775	-14.747	1.00	0.00	H
ATOM	5008	HG12 VAL	308	56.231	-1.398	-14.168	1.00	0.00	H
ATOM	5009	HG13 VAL	308	55.884	-2.742	-13.082	1.00	0.00	H
ATOM	5010	HG21 VAL	308	52.985	-3.175	-14.125	1.00	0.00	H
ATOM	5011	HG22 VAL	308	53.313	-3.172	-12.397	1.00	0.00	H
ATOM	5012	HG23 VAL	308	52.088	-2.102	-13.068	1.00	0.00	H
ATOM	5013	N PHE	309	56.300	0.722	-11.579	1.00	320.62	N
ATOM	5014	CA PHE	309	57.325	1.764	-11.498	1.00	320.62	C
ATOM	5015	C PHE	309	56.785	3.074	-10.896	1.00	320.62	C
ATOM	5016	O PHE	309	57.455	3.701	-10.076	1.00	320.62	O
ATOM	5017	CB PHE	309	58.139	1.950	-12.801	1.00	320.62	C
ATOM	5018	CG PHE	309	59.365	2.837	-12.640	1.00	320.62	C
ATOM	5019	CD1 PHE	309	60.308	2.572	-11.624	1.00	320.62	C
ATOM	5020	CD2 PHE	309	59.551	3.951	-13.483	1.00	320.62	C
ATOM	5021	CE1 PHE	309	61.402	3.431	-11.431	1.00	320.62	C
ATOM	5022	CE2 PHE	309	60.664	4.795	-13.306	1.00	320.62	C
ATOM	5023	CZ PHE	309	61.586	4.540	-12.275	1.00	320.62	C
ATOM	5024	H PHE	309	56.302	0.052	-10.826	1.00	0.00	H
ATOM	5025	HA PHE	309	58.009	1.366	-10.753	1.00	0.00	H
ATOM	5026	HB2 PHE	309	58.479	0.983	-13.172	1.00	0.00	H
ATOM	5027	HB3 PHE	309	57.506	2.367	-13.586	1.00	0.00	H
ATOM	5028	HD1 PHE	309	60.199	1.721	-10.972	1.00	0.00	H
ATOM	5029	HD2 PHE	309	58.851	4.166	-14.279	1.00	0.00	H
ATOM	5030	HE1 PHE	309	62.110	3.221	-10.645	1.00	0.00	H
ATOM	5031	HE2 PHE	309	60.813	5.636	-13.969	1.00	0.00	H
ATOM	5032	HZ PHE	309	62.439	5.189	-12.143	1.00	0.00	H

ATOM	5033	N	ALA	310	55.544	3.452	-11.236	1.00	87.77	N
ATOM	5034	CA	ALA	310	54.824	4.624	-10.735	1.00	87.77	C
ATOM	5035	C	ALA	310	54.737	4.675	-9.198	1.00	87.77	C
ATOM	5036	O	ALA	310	54.878	5.744	-8.610	1.00	87.77	O
ATOM	5037	CB	ALA	310	53.425	4.670	-11.367	1.00	87.77	C
ATOM	5038	H	ALA	310	55.099	2.890	-11.954	1.00	0.00	H
ATOM	5039	HA	ALA	310	55.371	5.507	-11.067	1.00	0.00	H
ATOM	5040	HB1	ALA	310	52.878	5.555	-11.037	1.00	0.00	H
ATOM	5041	HB2	ALA	310	53.483	4.710	-12.455	1.00	0.00	H
ATOM	5042	HB3	ALA	310	52.831	3.800	-11.095	1.00	0.00	H
ATOM	5043	N	PHE	311	54.580	3.511	-8.549	1.00	103.42	N
ATOM	5044	CA	PHE	311	54.579	3.347	-7.095	1.00	103.42	C
ATOM	5045	C	PHE	311	55.912	3.792	-6.456	1.00	103.42	C
ATOM	5046	O	PHE	311	55.929	4.679	-5.601	1.00	103.42	O
ATOM	5047	CB	PHE	311	54.250	1.873	-6.765	1.00	103.42	C
ATOM	5048	CG	PHE	311	54.239	1.512	-5.288	1.00	103.42	C
ATOM	5049	CD1	PHE	311	53.274	2.078	-4.428	1.00	103.42	C
ATOM	5050	CD2	PHE	311	55.198	0.617	-4.767	1.00	103.42	C
ATOM	5051	CE1	PHE	311	53.271	1.754	-3.058	1.00	103.42	C
ATOM	5052	CE2	PHE	311	55.193	0.292	-3.397	1.00	103.42	C
ATOM	5053	CZ	PHE	311	54.229	0.860	-2.542	1.00	103.42	C
ATOM	5054	H	PHE	311	54.436	2.683	-9.117	1.00	0.00	H
ATOM	5055	HA	PHE	311	53.792	3.984	-6.686	1.00	0.00	H
ATOM	5056	HB2	PHE	311	53.266	1.626	-7.165	1.00	0.00	H
ATOM	5057	HB3	PHE	311	54.947	1.213	-7.284	1.00	0.00	H
ATOM	5058	HD1	PHE	311	52.537	2.769	-4.811	1.00	0.00	H
ATOM	5059	HD2	PHE	311	55.942	0.174	-5.415	1.00	0.00	H
ATOM	5060	HE1	PHE	311	52.532	2.192	-2.402	1.00	0.00	H
ATOM	5061	HE2	PHE	311	55.926	-0.396	-3.002	1.00	0.00	H
ATOM	5062	HZ	PHE	311	54.223	0.611	-1.491	1.00	0.00	H
ATOM	5063	N	CYS	312	57.049	3.227	-6.888	1.00	85.01	N
ATOM	5064	CA	CYS	312	58.362	3.582	-6.342	1.00	85.01	C
ATOM	5065	C	CYS	312	58.868	4.942	-6.864	1.00	85.01	C
ATOM	5066	O	CYS	312	59.678	5.574	-6.186	1.00	85.01	O
ATOM	5067	CB	CYS	312	59.395	2.458	-6.579	1.00	85.01	C
ATOM	5068	SG	CYS	312	59.298	1.675	-8.213	1.00	85.01	S
ATOM	5069	H	CYS	312	57.027	2.589	-7.671	1.00	0.00	H
ATOM	5070	HA	CYS	312	58.264	3.689	-5.261	1.00	0.00	H
ATOM	5071	HB2	CYS	312	60.407	2.832	-6.423	1.00	0.00	H
ATOM	5072	HB3	CYS	312	59.245	1.672	-5.839	1.00	0.00	H
ATOM	5073	HG	CYS	312	60.358	0.869	-8.023	1.00	0.00	H
ATOM	5074	N	SER	313	58.318	5.451	-7.976	1.00	100.92	N
ATOM	5075	CA	SER	313	58.518	6.824	-8.449	1.00	100.92	C
ATOM	5076	C	SER	313	57.815	7.864	-7.552	1.00	100.92	C
ATOM	5077	O	SER	313	58.155	9.040	-7.624	1.00	100.92	O
ATOM	5078	CB	SER	313	57.984	6.968	-9.884	1.00	100.92	C
ATOM	5079	OG	SER	313	58.722	6.159	-10.782	1.00	100.92	O
ATOM	5080	H	SER	313	57.716	4.855	-8.534	1.00	0.00	H
ATOM	5081	HA	SER	313	59.582	7.059	-8.450	1.00	0.00	H
ATOM	5082	HB2	SER	313	56.925	6.729	-9.940	1.00	0.00	H
ATOM	5083	HB3	SER	313	58.085	8.004	-10.213	1.00	0.00	H
ATOM	5084	HG	SER	313	58.549	5.241	-10.590	1.00	0.00	H
ATOM	5085	N	MET	314	56.879	7.454	-6.679	1.00	116.54	N
ATOM	5086	CA	MET	314	56.345	8.319	-5.628	1.00	116.54	C
ATOM	5087	C	MET	314	57.209	8.190	-4.356	1.00	116.54	C
ATOM	5088	O	MET	314	57.346	9.152	-3.604	1.00	116.54	O

ATOM	5089	CB	MET	314	54.899	7.899	-5.287	1.00116.54	C
ATOM	5090	CG	MET	314	54.131	9.046	-4.611	1.00116.54	C
ATOM	5091	SD	MET	314	52.461	8.640	-4.045	1.00116.54	S
ATOM	5092	CE	MET	314	52.019	10.277	-3.406	1.00116.54	C
ATOM	5093	H	MET	314	56.560	6.494	-6.715	1.00 0.00	H
ATOM	5094	HA	MET	314	56.344	9.355	-5.967	1.00 0.00	H
ATOM	5095	HB2	MET	314	54.368	7.624	-6.199	1.00 0.00	H
ATOM	5096	HB3	MET	314	54.885	7.012	-4.652	1.00 0.00	H
ATOM	5097	HG2	MET	314	54.685	9.409	-3.745	1.00 0.00	H
ATOM	5098	HG3	MET	314	54.059	9.886	-5.303	1.00 0.00	H
ATOM	5099	HE1	MET	314	51.034	10.246	-2.951	1.00 0.00	H
ATOM	5100	HE2	MET	314	52.734	10.603	-2.650	1.00 0.00	H
ATOM	5101	HE3	MET	314	52.001	11.012	-4.210	1.00 0.00	H
ATOM	5102	N	LEU	315	57.812	7.017	-4.109	1.00 46.95	N
ATOM	5103	CA	LEU	315	58.612	6.733	-2.915	1.00 46.95	C
ATOM	5104	C	LEU	315	59.945	7.505	-2.923	1.00 46.95	C
ATOM	5105	O	LEU	315	60.402	7.947	-1.869	1.00 46.95	O
ATOM	5106	CB	LEU	315	58.879	5.210	-2.838	1.00 46.95	C
ATOM	5107	CG	LEU	315	59.590	4.703	-1.560	1.00 46.95	C
ATOM	5108	CD1	LEU	315	58.754	4.924	-0.289	1.00 46.95	C
ATOM	5109	CD2	LEU	315	59.967	3.222	-1.709	1.00 46.95	C
ATOM	5110	H	LEU	315	57.654	6.275	-4.775	1.00 0.00	H
ATOM	5111	HA	LEU	315	58.034	7.052	-2.046	1.00 0.00	H
ATOM	5112	HB2	LEU	315	57.934	4.677	-2.949	1.00 0.00	H
ATOM	5113	HB3	LEU	315	59.490	4.924	-3.694	1.00 0.00	H
ATOM	5114	HG	LEU	315	60.526	5.247	-1.440	1.00 0.00	H
ATOM	5115	HD11	LEU	315	59.255	4.514	0.588	1.00 0.00	H
ATOM	5116	HD12	LEU	315	58.591	5.984	-0.095	1.00 0.00	H
ATOM	5117	HD13	LEU	315	57.777	4.445	-0.367	1.00 0.00	H
ATOM	5118	HD21	LEU	315	60.502	2.860	-0.830	1.00 0.00	H
ATOM	5119	HD22	LEU	315	59.085	2.596	-1.847	1.00 0.00	H
ATOM	5120	HD23	LEU	315	60.621	3.073	-2.569	1.00 0.00	H
ATOM	5121	N	CYS	316	60.563	7.702	-4.096	1.00118.36	N
ATOM	5122	CA	CYS	316	61.832	8.422	-4.238	1.00118.36	C
ATOM	5123	C	CYS	316	61.709	9.933	-3.928	1.00118.36	C
ATOM	5124	O	CYS	316	62.698	10.576	-3.562	1.00118.36	O
ATOM	5125	CB	CYS	316	62.405	8.172	-5.648	1.00118.36	C
ATOM	5126	SG	CYS	316	61.390	8.865	-6.983	1.00118.36	S
ATOM	5127	H	CYS	316	60.148	7.302	-4.931	1.00 0.00	H
ATOM	5128	HA	CYS	316	62.537	8.001	-3.517	1.00 0.00	H
ATOM	5129	HB2	CYS	316	63.396	8.608	-5.733	1.00 0.00	H
ATOM	5130	HB3	CYS	316	62.526	7.101	-5.814	1.00 0.00	H
ATOM	5131	HG	CYS	316	62.211	8.526	-7.982	1.00 0.00	H
ATOM	5132	N	LEU	317	60.489	10.491	-3.988	1.00 86.28	N
ATOM	5133	CA	LEU	317	60.165	11.891	-3.692	1.00 86.28	C
ATOM	5134	C	LEU	317	60.343	12.220	-2.202	1.00 86.28	C
ATOM	5135	O	LEU	317	60.556	13.375	-1.844	1.00 86.28	O
ATOM	5136	CB	LEU	317	58.698	12.186	-4.064	1.00 86.28	C
ATOM	5137	CG	LEU	317	58.267	11.781	-5.486	1.00 86.28	C
ATOM	5138	CD1	LEU	317	56.774	12.085	-5.675	1.00 86.28	C
ATOM	5139	CD2	LEU	317	59.124	12.444	-6.574	1.00 86.28	C
ATOM	5140	H	LEU	317	59.723	9.901	-4.284	1.00 0.00	H
ATOM	5141	HA	LEU	317	60.828	12.540	-4.268	1.00 0.00	H
ATOM	5142	HB2	LEU	317	58.038	11.693	-3.348	1.00 0.00	H
ATOM	5143	HB3	LEU	317	58.518	13.255	-3.933	1.00 0.00	H
ATOM	5144	HG	LEU	317	58.389	10.705	-5.599	1.00 0.00	H

ATOM	5145	HD11	LEU	317	56.439	11.819	-6.678	1.00	0.00	H
ATOM	5146	HD12	LEU	317	56.167	11.523	-4.965	1.00	0.00	H
ATOM	5147	HD13	LEU	317	56.561	13.141	-5.511	1.00	0.00	H
ATOM	5148	HD21	LEU	317	58.758	12.184	-7.568	1.00	0.00	H
ATOM	5149	HD22	LEU	317	59.120	13.530	-6.487	1.00	0.00	H
ATOM	5150	HD23	LEU	317	60.159	12.108	-6.529	1.00	0.00	H
ATOM	5151	N	LEU	318	60.343	11.189	-1.344	1.00	157.07	N
ATOM	5152	CA	LEU	318	60.583	11.257	0.096	1.00	157.07	C
ATOM	5153	C	LEU	318	62.019	11.721	0.430	1.00	157.07	C
ATOM	5154	O	LEU	318	62.316	11.999	1.592	1.00	157.07	O
ATOM	5155	CB	LEU	318	60.302	9.848	0.679	1.00	157.07	C
ATOM	5156	CG	LEU	318	60.058	9.764	2.202	1.00	157.07	C
ATOM	5157	CD1	LEU	318	58.699	10.362	2.604	1.00	157.07	C
ATOM	5158	CD2	LEU	318	60.163	8.308	2.682	1.00	157.07	C
ATOM	5159	H	LEU	318	60.180	10.272	-1.741	1.00	0.00	H
ATOM	5160	HA	LEU	318	59.888	11.986	0.512	1.00	0.00	H
ATOM	5161	HB2	LEU	318	59.431	9.418	0.182	1.00	0.00	H
ATOM	5162	HB3	LEU	318	61.135	9.196	0.411	1.00	0.00	H
ATOM	5163	HG	LEU	318	60.831	10.323	2.724	1.00	0.00	H
ATOM	5164	HD11	LEU	318	58.543	10.296	3.681	1.00	0.00	H
ATOM	5165	HD12	LEU	318	58.628	11.415	2.337	1.00	0.00	H
ATOM	5166	HD13	LEU	318	57.873	9.842	2.117	1.00	0.00	H
ATOM	5167	HD21	LEU	318	60.008	8.236	3.759	1.00	0.00	H
ATOM	5168	HD22	LEU	318	59.419	7.676	2.196	1.00	0.00	H
ATOM	5169	HD23	LEU	318	61.147	7.891	2.465	1.00	0.00	H
ATOM	5170	N	ASN	319	62.918	11.817	-0.569	1.00	127.13	N
ATOM	5171	CA	ASN	319	64.251	12.407	-0.424	1.00	127.13	C
ATOM	5172	C	ASN	319	64.201	13.825	0.170	1.00	127.13	C
ATOM	5173	O	ASN	319	64.791	14.024	1.223	1.00	127.13	O
ATOM	5174	CB	ASN	319	65.155	12.272	-1.674	1.00	127.13	C
ATOM	5175	CG	ASN	319	64.944	13.252	-2.827	1.00	127.13	C
ATOM	5176	OD1	ASN	319	65.716	14.190	-2.968	1.00	127.13	O
ATOM	5177	ND2	ASN	319	63.969	13.032	-3.700	1.00	127.13	N
ATOM	5178	H	ASN	319	62.583	11.598	-1.496	1.00	0.00	H
ATOM	5179	HA	ASN	319	64.738	11.788	0.331	1.00	0.00	H
ATOM	5180	HB2	ASN	319	66.181	12.432	-1.343	1.00	0.00	H
ATOM	5181	HB3	ASN	319	65.128	11.250	-2.042	1.00	0.00	H
ATOM	5182	HD22	ASN	319	63.839	13.709	-4.437	1.00	0.00	H
ATOM	5183	HD21	ASN	319	63.385	12.198	-3.656	1.00	0.00	H
ATOM	5184	N	SER	320	63.399	14.759	-0.362	1.00	113.04	N
ATOM	5185	CA	SER	320	63.253	16.134	0.149	1.00	113.04	C
ATOM	5186	C	SER	320	62.375	16.223	1.423	1.00	113.04	C
ATOM	5187	O	SER	320	61.571	17.132	1.606	1.00	113.04	O
ATOM	5188	CB	SER	320	62.709	17.030	-0.983	1.00	113.04	C
ATOM	5189	OG	SER	320	63.686	17.112	-2.008	1.00	113.04	O
ATOM	5190	H	SER	320	62.888	14.550	-1.208	1.00	0.00	H
ATOM	5191	HA	SER	320	64.234	16.505	0.449	1.00	0.00	H
ATOM	5192	HB2	SER	320	61.766	16.651	-1.381	1.00	0.00	H
ATOM	5193	HB3	SER	320	62.522	18.043	-0.620	1.00	0.00	H
ATOM	5194	HG	SER	320	64.505	17.430	-1.585	1.00	0.00	H
ATOM	5195	N	THR	321	62.567	15.273	2.335	1.00	180.30	N
ATOM	5196	CA	THR	321	62.185	15.310	3.736	1.00	180.30	C
ATOM	5197	C	THR	321	63.185	14.460	4.545	1.00	180.30	C
ATOM	5198	O	THR	321	63.571	14.848	5.645	1.00	180.30	O
ATOM	5199	CB	THR	321	60.667	15.056	3.938	1.00	180.30	C
ATOM	5200	OG1	THR	321	60.315	15.181	5.301	1.00	180.30	O

ATOM	5201	CG2 THR	321	60.181	13.680	3.462	1.00180.30	C
ATOM	5202	H THR	321	63.290	14.609	2.080	1.00 0.00	H
ATOM	5203	HA THR	321	62.367	16.335	4.068	1.00 0.00	H
ATOM	5204	HB THR	321	60.107	15.823	3.400	1.00 0.00	H
ATOM	5205	HG1 THR	321	60.509	16.080	5.564	1.00 0.00	H
ATOM	5206	HG21 THR	321	59.115	13.557	3.654	1.00 0.00	H
ATOM	5207	HG22 THR	321	60.330	13.572	2.388	1.00 0.00	H
ATOM	5208	HG23 THR	321	60.708	12.867	3.960	1.00 0.00	H
ATOM	5209	N VAL	322	63.712	13.371	3.961	1.00119.81	N
ATOM	5210	CA VAL	322	64.842	12.599	4.481	1.00119.81	C
ATOM	5211	C VAL	322	66.172	13.398	4.417	1.00119.81	C
ATOM	5212	O VAL	322	66.946	13.341	5.371	1.00119.81	O
ATOM	5213	CB VAL	322	64.897	11.254	3.696	1.00119.81	C
ATOM	5214	CG1 VAL	322	66.181	10.435	3.903	1.00119.81	C
ATOM	5215	CG2 VAL	322	63.683	10.366	4.035	1.00119.81	C
ATOM	5216	H VAL	322	63.311	13.061	3.082	1.00 0.00	H
ATOM	5217	HA VAL	322	64.654	12.382	5.534	1.00 0.00	H
ATOM	5218	HB VAL	322	64.848	11.486	2.632	1.00 0.00	H
ATOM	5219	HG11 VAL	322	66.112	9.457	3.425	1.00 0.00	H
ATOM	5220	HG12 VAL	322	67.041	10.938	3.464	1.00 0.00	H
ATOM	5221	HG13 VAL	322	66.376	10.287	4.964	1.00 0.00	H
ATOM	5222	HG21 VAL	322	63.635	9.495	3.380	1.00 0.00	H
ATOM	5223	HG22 VAL	322	63.727	10.010	5.064	1.00 0.00	H
ATOM	5224	HG23 VAL	322	62.742	10.903	3.922	1.00 0.00	H
ATOM	5225	N ASN	323	66.421	14.134	3.320	1.00 67.50	N
ATOM	5226	CA ASN	323	67.541	15.057	3.055	1.00 67.50	C
ATOM	5227	C ASN	323	67.875	16.026	4.211	1.00 67.50	C
ATOM	5228	O ASN	323	69.008	15.976	4.697	1.00 67.50	O
ATOM	5229	CB ASN	323	67.390	15.825	1.711	1.00 67.50	C
ATOM	5230	CG ASN	323	67.607	15.042	0.411	1.00 67.50	C
ATOM	5231	OD1 ASN	323	68.253	13.994	0.374	1.00 67.50	O
ATOM	5232	ND2 ASN	323	67.052	15.552	-0.683	1.00 67.50	N
ATOM	5233	H ASN	323	65.736	14.073	2.566	1.00 0.00	H
ATOM	5234	HA ASN	323	68.424	14.427	2.957	1.00 0.00	H
ATOM	5235	HB2 ASN	323	66.398	16.268	1.649	1.00 0.00	H
ATOM	5236	HB3 ASN	323	68.077	16.668	1.693	1.00 0.00	H
ATOM	5237	HD22 ASN	323	67.030	15.055	-1.562	1.00 0.00	H
ATOM	5238	HD21 ASN	323	66.605	16.491	-0.644	1.00 0.00	H
ATOM	5239	N PRO	324	66.931	16.880	4.680	1.00 80.02	N
ATOM	5240	CA PRO	324	67.153	17.768	5.826	1.00 80.02	C
ATOM	5241	C PRO	324	67.241	17.043	7.175	1.00 80.02	C
ATOM	5242	O PRO	324	68.318	17.026	7.759	1.00 80.02	O
ATOM	5243	CD PRO	324	65.607	17.134	4.099	1.00 80.02	C
ATOM	5244	CB PRO	324	65.984	18.767	5.801	1.00 80.02	C
ATOM	5245	CG PRO	324	64.866	18.032	5.085	1.00 80.02	C
ATOM	5246	HA PRO	324	68.086	18.316	5.678	1.00 0.00	H
ATOM	5247	HD3 PRO	324	65.743	17.697	3.174	1.00 0.00	H
ATOM	5248	HD2 PRO	324	65.048	16.240	3.854	1.00 0.00	H
ATOM	5249	HB2 PRO	324	65.674	19.114	6.782	1.00 0.00	H
ATOM	5250	HB3 PRO	324	66.285	19.648	5.241	1.00 0.00	H
ATOM	5251	HG3 PRO	324	64.137	18.687	4.615	1.00 0.00	H
ATOM	5252	HG2 PRO	324	64.307	17.421	5.793	1.00 0.00	H
ATOM	5253	N ILE	325	66.098	16.524	7.660	1.00123.65	N
ATOM	5254	CA ILE	325	65.616	16.130	9.002	1.00123.65	C
ATOM	5255	C ILE	325	66.586	15.464	10.018	1.00123.65	C
ATOM	5256	O ILE	325	66.156	14.761	10.940	1.00123.65	O

ATOM	5257	CB	ILE	325	64.273	15.363	8.795	1.00123.65	C
ATOM	5258	CG2	ILE	325	64.473	13.879	8.415	1.00123.65	C
ATOM	5259	CG1	ILE	325	63.257	15.524	9.949	1.00123.65	C
ATOM	5260	CD1	ILE	325	62.196	16.585	9.640	1.00123.65	C
ATOM	5261	H	ILE	325	65.366	16.515	6.963	1.00 0.00	H
ATOM	5262	HA	ILE	325	65.367	17.087	9.464	1.00 0.00	H
ATOM	5263	HB	ILE	325	63.789	15.813	7.928	1.00 0.00	H
ATOM	5264	HG21	ILE	325	63.535	13.441	8.069	1.00 0.00	H
ATOM	5265	HG22	ILE	325	65.184	13.786	7.592	1.00 0.00	H
ATOM	5266	HG23	ILE	325	64.839	13.272	9.240	1.00 0.00	H
ATOM	5267	HG12	ILE	325	62.738	14.583	10.129	1.00 0.00	H
ATOM	5268	HG13	ILE	325	63.760	15.790	10.878	1.00 0.00	H
ATOM	5269	HD11	ILE	325	61.513	16.724	10.478	1.00 0.00	H
ATOM	5270	HD12	ILE	325	62.658	17.549	9.422	1.00 0.00	H
ATOM	5271	HD13	ILE	325	61.598	16.307	8.770	1.00 0.00	H
ATOM	5272	N	ILE	326	67.891	15.610	9.841	1.00 39.60	N
ATOM	5273	CA	ILE	326	68.980	14.800	10.347	1.00 39.60	C
ATOM	5274	C	ILE	326	70.060	15.679	11.017	1.00 39.60	C
ATOM	5275	O	ILE	326	70.894	15.127	11.742	1.00 39.60	O
ATOM	5276	CB	ILE	326	69.454	13.827	9.212	1.00 39.60	C
ATOM	5277	CG2	ILE	326	70.799	13.133	9.496	1.00 39.60	C
ATOM	5278	CG1	ILE	326	68.358	12.780	8.870	1.00 39.60	C
ATOM	5279	CD1	ILE	326	68.693	11.814	7.724	1.00 39.60	C
ATOM	5280	H	ILE	326	68.133	16.246	9.066	1.00 0.00	H
ATOM	5281	HA	ILE	326	68.602	14.175	11.154	1.00 0.00	H
ATOM	5282	HB	ILE	326	69.609	14.432	8.315	1.00 0.00	H
ATOM	5283	HG21	ILE	326	71.091	12.477	8.678	1.00 0.00	H
ATOM	5284	HG22	ILE	326	71.607	13.858	9.588	1.00 0.00	H
ATOM	5285	HG23	ILE	326	70.762	12.546	10.413	1.00 0.00	H
ATOM	5286	HG12	ILE	326	68.088	12.209	9.758	1.00 0.00	H
ATOM	5287	HG13	ILE	326	67.452	13.301	8.561	1.00 0.00	H
ATOM	5288	HD11	ILE	326	67.810	11.239	7.442	1.00 0.00	H
ATOM	5289	HD12	ILE	326	69.005	12.364	6.836	1.00 0.00	H
ATOM	5290	HD13	ILE	326	69.471	11.101	7.989	1.00 0.00	H
ATOM	5291	N	TYR	327	70.034	17.014	10.869	1.00117.56	N
ATOM	5292	CA	TYR	327	71.035	17.913	11.430	1.00117.56	C
ATOM	5293	C	TYR	327	70.440	18.805	12.527	1.00117.56	C
ATOM	5294	O	TYR	327	70.715	18.559	13.696	1.00117.56	O
ATOM	5295	CB	TYR	327	71.763	18.720	10.332	1.00117.56	C
ATOM	5296	CG	TYR	327	73.072	19.310	10.838	1.00117.56	C
ATOM	5297	CD1	TYR	327	73.082	20.543	11.526	1.00117.56	C
ATOM	5298	CD2	TYR	327	74.269	18.577	10.704	1.00117.56	C
ATOM	5299	CE1	TYR	327	74.271	21.016	12.113	1.00117.56	C
ATOM	5300	CE2	TYR	327	75.461	19.068	11.270	1.00117.56	C
ATOM	5301	CZ	TYR	327	75.465	20.283	11.976	1.00117.56	C
ATOM	5302	OH	TYR	327	76.628	20.736	12.523	1.00117.56	O
ATOM	5303	H	TYR	327	69.291	17.481	10.332	1.00 0.00	H
ATOM	5304	HA	TYR	327	71.813	17.327	11.921	1.00 0.00	H
ATOM	5305	HB2	TYR	327	71.983	18.067	9.488	1.00 0.00	H
ATOM	5306	HB3	TYR	327	71.129	19.511	9.927	1.00 0.00	H
ATOM	5307	HD1	TYR	327	72.172	21.115	11.640	1.00 0.00	H
ATOM	5308	HD2	TYR	327	74.268	17.631	10.185	1.00 0.00	H
ATOM	5309	HE1	TYR	327	74.255	21.939	12.675	1.00 0.00	H
ATOM	5310	HE2	TYR	327	76.376	18.506	11.176	1.00 0.00	H
ATOM	5311	HH	TYR	327	76.477	21.403	13.219	1.00 0.00	H
ATOM	5312	N	ALA	328	69.661	19.835	12.190	1.00 54.48	N

ATOM	5313	CA	ALA	328	69.250	20.938	13.064	1.00	54.48	C
ATOM	5314	C	ALA	328	68.221	20.496	14.116	1.00	54.48	C
ATOM	5315	O	ALA	328	68.332	20.848	15.298	1.00	54.48	O
ATOM	5316	CB	ALA	328	68.633	22.059	12.211	1.00	54.48	C
ATOM	5317	H	ALA	328	69.255	19.775	11.240	1.00	0.00	H
ATOM	5318	HA	ALA	328	70.134	21.320	13.577	1.00	0.00	H
ATOM	5319	HB1	ALA	328	68.441	22.946	12.814	1.00	0.00	H
ATOM	5320	HB2	ALA	328	69.294	22.351	11.395	1.00	0.00	H
ATOM	5321	HB3	ALA	328	67.683	21.758	11.769	1.00	0.00	H
ATOM	5322	N	LEU	329	67.256	19.650	13.728	1.00	165.39	N
ATOM	5323	CA	LEU	329	66.292	19.055	14.650	1.00	165.39	C
ATOM	5324	C	LEU	329	66.977	18.045	15.589	1.00	165.39	C
ATOM	5325	O	LEU	329	66.504	17.831	16.707	1.00	165.39	O
ATOM	5326	CB	LEU	329	65.154	18.368	13.868	1.00	165.39	C
ATOM	5327	CG	LEU	329	64.210	19.359	13.149	1.00	165.39	C
ATOM	5328	CD1	LEU	329	63.388	18.646	12.070	1.00	165.39	C
ATOM	5329	CD2	LEU	329	63.278	20.109	14.115	1.00	165.39	C
ATOM	5330	H	LEU	329	67.153	19.427	12.723	1.00	0.00	H
ATOM	5331	HA	LEU	329	65.872	19.845	15.273	1.00	0.00	H
ATOM	5332	HB2	LEU	329	65.595	17.689	13.135	1.00	0.00	H
ATOM	5333	HB3	LEU	329	64.560	17.740	14.533	1.00	0.00	H
ATOM	5334	HG	LEU	329	64.817	20.104	12.631	1.00	0.00	H
ATOM	5335	HD11	LEU	329	62.751	19.352	11.535	1.00	0.00	H
ATOM	5336	HD12	LEU	329	64.047	18.191	11.330	1.00	0.00	H
ATOM	5337	HD13	LEU	329	62.751	17.868	12.489	1.00	0.00	H
ATOM	5338	HD21	LEU	329	62.627	20.791	13.565	1.00	0.00	H
ATOM	5339	HD22	LEU	329	62.640	19.424	14.673	1.00	0.00	H
ATOM	5340	HD23	LEU	329	63.832	20.717	14.830	1.00	0.00	H
ATOM	5341	N	ARG	330	68.153	17.516	15.221	1.00	108.50	N
ATOM	5342	CA	ARG	330	68.910	16.531	15.991	1.00	108.50	C
ATOM	5343	C	ARG	330	70.030	17.225	16.801	1.00	108.50	C
ATOM	5344	O	ARG	330	69.874	17.390	18.011	1.00	108.50	O
ATOM	5345	CB	ARG	330	69.453	15.443	15.035	1.00	108.50	C
ATOM	5346	CG	ARG	330	68.415	14.887	14.031	1.00	108.50	C
ATOM	5347	CD	ARG	330	67.099	14.341	14.624	1.00	108.50	C
ATOM	5348	NE	ARG	330	66.109	14.119	13.559	1.00	108.50	N
ATOM	5349	CZ	ARG	330	64.857	13.659	13.638	1.00	108.50	C
ATOM	5350	NH1	ARG	330	64.318	13.305	14.807	1.00	108.50	N
ATOM	5351	NH2	ARG	330	64.153	13.565	12.513	1.00	108.50	N1+
ATOM	5352	H	ARG	330	68.542	17.854	14.346	1.00	0.00	H
ATOM	5353	HA	ARG	330	68.256	16.040	16.714	1.00	0.00	H
ATOM	5354	HB2	ARG	330	70.291	15.829	14.452	1.00	0.00	H
ATOM	5355	HB3	ARG	330	69.861	14.622	15.626	1.00	0.00	H
ATOM	5356	HG2	ARG	330	68.183	15.664	13.300	1.00	0.00	H
ATOM	5357	HG3	ARG	330	68.897	14.089	13.465	1.00	0.00	H
ATOM	5358	HD2	ARG	330	67.281	13.411	15.164	1.00	0.00	H
ATOM	5359	HD3	ARG	330	66.662	15.049	15.328	1.00	0.00	H
ATOM	5360	HE	ARG	330	66.398	14.440	12.621	1.00	0.00	H
ATOM	5361	HH12	ARG	330	63.363	12.980	14.880	1.00	0.00	H
ATOM	5362	HH11	ARG	330	64.837	13.410	15.665	1.00	0.00	H
ATOM	5363	HH22	ARG	330	63.192	13.261	12.447	1.00	0.00	H
ATOM	5364	HH21	ARG	330	64.589	13.895	11.645	1.00	0.00	H
ATOM	5365	N	SER	331	71.100	17.713	16.157	1.00	66.80	N
ATOM	5366	CA	SER	331	72.234	18.452	16.726	1.00	66.80	C
ATOM	5367	C	SER	331	71.786	19.793	17.338	1.00	66.80	C
ATOM	5368	O	SER	331	70.689	20.282	17.064	1.00	66.80	O

ATOM	5369	CB	SER	331	73.320	18.666	15.639	1.00	66.80		C
ATOM	5370	OG	SER	331	74.517	19.211	16.177	1.00	66.80		O
ATOM	5371	H	SER	331	71.012	17.798	15.141	1.00	0.00		H
ATOM	5372	HA	SER	331	72.651	17.834	17.523	1.00	0.00		H
ATOM	5373	HB2	SER	331	73.564	17.719	15.155	1.00	0.00		H
ATOM	5374	HB3	SER	331	72.962	19.334	14.852	1.00	0.00		H
ATOM	5375	HG	SER	331	74.577	20.130	15.854	1.00	0.00		H
ATOM	5376	N	LYS	332	72.603	20.355	18.234	1.00	137.69		N
ATOM	5377	CA	LYS	332	72.270	21.505	19.073	1.00	137.69		C
ATOM	5378	C	LYS	332	73.405	22.536	19.171	1.00	137.69		C
ATOM	5379	O	LYS	332	73.514	23.245	20.170	1.00	137.69		O
ATOM	5380	CB	LYS	332	71.604	21.072	20.407	1.00	137.69		C
ATOM	5381	CG	LYS	332	70.234	20.355	20.282	1.00	137.69		C
ATOM	5382	CD	LYS	332	69.085	21.223	19.715	1.00	137.69		C
ATOM	5383	CE	LYS	332	67.861	20.416	19.246	1.00	137.69		C
ATOM	5384	NZ	LYS	332	68.137	19.706	17.987	1.00	137.69		N1+
ATOM	5385	H	LYS	332	73.532	19.964	18.307	1.00	0.00		H
ATOM	5386	HA	LYS	332	71.533	22.094	18.529	1.00	0.00		H
ATOM	5387	HB2	LYS	332	72.295	20.419	20.942	1.00	0.00		H
ATOM	5388	HB3	LYS	332	71.483	21.938	21.052	1.00	0.00		H
ATOM	5389	HG2	LYS	332	70.360	19.449	19.692	1.00	0.00		H
ATOM	5390	HG3	LYS	332	69.939	20.000	21.271	1.00	0.00		H
ATOM	5391	HD2	LYS	332	68.774	21.934	20.481	1.00	0.00		H
ATOM	5392	HD3	LYS	332	69.419	21.824	18.871	1.00	0.00		H
ATOM	5393	HE2	LYS	332	67.550	19.702	20.010	1.00	0.00		H
ATOM	5394	HE3	LYS	332	67.017	21.087	19.076	1.00	0.00		H
ATOM	5395	HZ1	LYS	332	67.347	19.142	17.684	1.00	0.00		H
ATOM	5396	HZ2	LYS	332	68.384	20.341	17.227	1.00	0.00		H
ATOM	5397	HZ3	LYS	332	68.930	19.082	18.094	1.00	0.00		H
ATOM	5398	N	ASP	333	74.189	22.650	18.094	1.00	115.09		N
ATOM	5399	CA	ASP	333	74.992	23.810	17.683	1.00	115.09		C
ATOM	5400	C	ASP	333	74.032	24.802	16.997	1.00	115.09		C
ATOM	5401	O	ASP	333	73.959	25.972	17.365	1.00	115.09		O
ATOM	5402	CB	ASP	333	76.064	23.381	16.626	1.00	115.09		C
ATOM	5403	CG	ASP	333	75.617	22.489	15.456	1.00	115.09		C
ATOM	5404	OD1	ASP	333	76.323	22.470	14.429	1.00	115.09		O
ATOM	5405	OD2	ASP	333	74.594	21.778	15.606	1.00	115.09		O1-
ATOM	5406	H	ASP	333	74.030	22.014	17.311	1.00	0.00		H
ATOM	5407	HA	ASP	333	75.465	24.290	18.543	1.00	0.00		H
ATOM	5408	HB2	ASP	333	76.525	24.276	16.204	1.00	0.00		H
ATOM	5409	HB3	ASP	333	76.878	22.863	17.121	1.00	0.00		H
ATOM	5410	N	LEU	334	73.210	24.298	16.064	1.00	117.72		N
ATOM	5411	CA	LEU	334	72.221	25.031	15.263	1.00	117.72		C
ATOM	5412	C	LEU	334	71.136	25.701	16.137	1.00	117.72		C
ATOM	5413	O	LEU	334	70.545	26.703	15.747	1.00	117.72		O
ATOM	5414	CB	LEU	334	71.614	24.026	14.243	1.00	117.72		C
ATOM	5415	CG	LEU	334	71.475	24.525	12.788	1.00	117.72		C
ATOM	5416	CD1	LEU	334	70.381	25.589	12.631	1.00	117.72		C
ATOM	5417	CD2	LEU	334	72.813	24.969	12.166	1.00	117.72		C
ATOM	5418	H	LEU	334	73.428	23.346	15.773	1.00	0.00		H
ATOM	5419	HA	LEU	334	72.759	25.830	14.752	1.00	0.00		H
ATOM	5420	HB2	LEU	334	72.233	23.127	14.199	1.00	0.00		H
ATOM	5421	HB3	LEU	334	70.645	23.670	14.596	1.00	0.00		H
ATOM	5422	HG	LEU	334	71.147	23.663	12.206	1.00	0.00		H
ATOM	5423	HD11	LEU	334	70.247	25.872	11.587	1.00	0.00		H
ATOM	5424	HD12	LEU	334	69.419	25.224	12.990	1.00	0.00		H

ATOM	5425	HD13	LEU	334	70.622	26.495	13.183	1.00	0.00		H
ATOM	5426	HD21	LEU	334	72.711	25.147	11.095	1.00	0.00		H
ATOM	5427	HD22	LEU	334	73.190	25.894	12.600	1.00	0.00		H
ATOM	5428	HD23	LEU	334	73.583	24.208	12.293	1.00	0.00		H
ATOM	5429	N	ARG	335	70.968	25.181	17.362	1.00	100.72		N
ATOM	5430	CA	ARG	335	70.217	25.719	18.500	1.00	100.72		C
ATOM	5431	C	ARG	335	70.530	27.183	18.821	1.00	100.72		C
ATOM	5432	O	ARG	335	69.643	27.911	19.259	1.00	100.72		O
ATOM	5433	CB	ARG	335	70.535	24.827	19.718	1.00	100.72		C
ATOM	5434	CG	ARG	335	70.049	25.305	21.103	1.00	100.72		C
ATOM	5435	CD	ARG	335	70.567	24.425	22.247	1.00	100.72		C
ATOM	5436	NE	ARG	335	72.048	24.449	22.340	1.00	100.72		N
ATOM	5437	CZ	ARG	335	72.772	24.604	23.458	1.00	100.72		C
ATOM	5438	NH1	ARG	335	72.155	24.795	24.617	1.00	100.72		N
ATOM	5439	NH2	ARG	335	74.102	24.556	23.388	1.00	100.72		N1+
ATOM	5440	H	ARG	335	71.603	24.424	17.546	1.00	0.00		H
ATOM	5441	HA	ARG	335	69.153	25.660	18.273	1.00	0.00		H
ATOM	5442	HB2	ARG	335	70.163	23.824	19.537	1.00	0.00		H
ATOM	5443	HB3	ARG	335	71.618	24.757	19.765	1.00	0.00		H
ATOM	5444	HG2	ARG	335	70.371	26.324	21.314	1.00	0.00		H
ATOM	5445	HG3	ARG	335	68.958	25.334	21.124	1.00	0.00		H
ATOM	5446	HD2	ARG	335	70.107	24.770	23.173	1.00	0.00		H
ATOM	5447	HD3	ARG	335	70.224	23.399	22.128	1.00	0.00		H
ATOM	5448	HE	ARG	335	72.568	24.226	21.487	1.00	0.00		H
ATOM	5449	HH12	ARG	335	72.542	24.539	25.557	1.00	0.00		H
ATOM	5450	HH11	ARG	335	71.423	25.511	24.600	1.00	0.00		H
ATOM	5451	HH22	ARG	335	74.712	24.697	24.194	1.00	0.00		H
ATOM	5452	HH21	ARG	335	74.539	24.825	22.499	1.00	0.00		H
ATOM	5453	N	HIS	336	71.802	27.578	18.682	1.00	78.86		N
ATOM	5454	CA	HIS	336	72.250	28.932	18.978	1.00	78.86		C
ATOM	5455	C	HIS	336	71.778	29.804	17.815	1.00	78.86		C
ATOM	5456	O	HIS	336	70.995	30.722	18.022	1.00	78.86		O
ATOM	5457	ND1	HIS	336	75.845	27.874	20.108	1.00	78.86		N
ATOM	5458	CG	HIS	336	74.471	27.922	19.952	1.00	78.86		C
ATOM	5459	CB	HIS	336	73.793	29.005	19.132	1.00	78.86		C
ATOM	5460	NE2	HIS	336	75.063	26.062	21.133	1.00	78.86		N
ATOM	5461	CD2	HIS	336	73.999	26.827	20.647	1.00	78.86		C
ATOM	5462	CE1	HIS	336	76.138	26.749	20.759	1.00	78.86		C
ATOM	5463	H	HIS	336	72.488	26.938	18.294	1.00	0.00		H
ATOM	5464	HA	HIS	336	71.788	29.295	19.893	1.00	0.00		H
ATOM	5465	HD1	HIS	336	76.510	28.606	19.845	1.00	0.00		H
ATOM	5466	HB2	HIS	336	74.271	28.982	18.152	1.00	0.00		H
ATOM	5467	HB3	HIS	336	74.054	29.973	19.564	1.00	0.00		H
ATOM	5468	HD2	HIS	336	72.978	26.514	20.799	1.00	0.00		H
ATOM	5469	HE1	HIS	336	77.147	26.444	20.986	1.00	0.00		H
ATOM	5470	N	ALA	337	72.149	29.433	16.582	1.00	47.08		N
ATOM	5471	CA	ALA	337	71.931	30.195	15.359	1.00	47.08		C
ATOM	5472	C	ALA	337	70.484	30.643	15.108	1.00	47.08		C
ATOM	5473	O	ALA	337	70.258	31.820	14.831	1.00	47.08		O
ATOM	5474	CB	ALA	337	72.470	29.400	14.170	1.00	47.08		C
ATOM	5475	H	ALA	337	72.711	28.601	16.507	1.00	0.00		H
ATOM	5476	HA	ALA	337	72.527	31.101	15.460	1.00	0.00		H
ATOM	5477	HB1	ALA	337	72.469	30.040	13.290	1.00	0.00		H
ATOM	5478	HB2	ALA	337	73.497	29.078	14.333	1.00	0.00		H
ATOM	5479	HB3	ALA	337	71.866	28.517	13.959	1.00	0.00		H
ATOM	5480	N	PHE	338	69.495	29.741	15.239	1.00	110.20		N

ATOM	5481	CA	PHE	338	68.086	30.100	15.021	1.00110.20	C
ATOM	5482	C	PHE	338	67.474	30.909	16.182	1.00110.20	C
ATOM	5483	O	PHE	338	66.349	31.388	16.051	1.00110.20	O
ATOM	5484	CB	PHE	338	67.219	28.862	14.670	1.00110.20	C
ATOM	5485	CG	PHE	338	66.999	27.753	15.697	1.00110.20	C
ATOM	5486	CD1	PHE	338	66.174	27.957	16.826	1.00110.20	C
ATOM	5487	CD2	PHE	338	67.531	26.470	15.460	1.00110.20	C
ATOM	5488	CE1	PHE	338	65.905	26.896	17.712	1.00110.20	C
ATOM	5489	CE2	PHE	338	67.250	25.403	16.335	1.00110.20	C
ATOM	5490	CZ	PHE	338	66.439	25.617	17.466	1.00110.20	C
ATOM	5491	H	PHE	338	69.726	28.793	15.513	1.00 0.00	H
ATOM	5492	HA	PHE	338	68.041	30.757	14.149	1.00 0.00	H
ATOM	5493	HB2	PHE	338	66.227	29.216	14.384	1.00 0.00	H
ATOM	5494	HB3	PHE	338	67.615	28.416	13.758	1.00 0.00	H
ATOM	5495	HD1	PHE	338	65.720	28.921	17.005	1.00 0.00	H
ATOM	5496	HD2	PHE	338	68.149	26.297	14.592	1.00 0.00	H
ATOM	5497	HE1	PHE	338	65.267	27.063	18.568	1.00 0.00	H
ATOM	5498	HE2	PHE	338	67.657	24.424	16.130	1.00 0.00	H
ATOM	5499	HZ	PHE	338	66.213	24.803	18.137	1.00 0.00	H
ATOM	5500	N	ARG	339	68.192	31.084	17.300	1.00119.33	N
ATOM	5501	CA	ARG	339	67.837	32.013	18.368	1.00119.33	C
ATOM	5502	C	ARG	339	68.638	33.313	18.190	1.00119.33	C
ATOM	5503	O	ARG	339	68.042	34.388	18.191	1.00119.33	O
ATOM	5504	CB	ARG	339	68.143	31.378	19.736	1.00119.33	C
ATOM	5505	CG	ARG	339	67.220	30.182	20.052	1.00119.33	C
ATOM	5506	CD	ARG	339	67.396	29.575	21.459	1.00119.33	C
ATOM	5507	NE	ARG	339	67.660	30.585	22.497	1.00119.33	N
ATOM	5508	CZ	ARG	339	66.874	31.568	22.937	1.00119.33	C
ATOM	5509	NH1	ARG	339	65.679	31.772	22.384	1.00119.33	N
ATOM	5510	NH2	ARG	339	67.311	32.346	23.925	1.00119.33	N1+
ATOM	5511	H	ARG	339	69.132	30.702	17.325	1.00 0.00	H
ATOM	5512	HA	ARG	339	66.779	32.270	18.330	1.00 0.00	H
ATOM	5513	HB2	ARG	339	69.187	31.074	19.808	1.00 0.00	H
ATOM	5514	HB3	ARG	339	68.005	32.147	20.494	1.00 0.00	H
ATOM	5515	HG2	ARG	339	66.182	30.478	19.907	1.00 0.00	H
ATOM	5516	HG3	ARG	339	67.399	29.397	19.316	1.00 0.00	H
ATOM	5517	HD2	ARG	339	66.531	28.973	21.737	1.00 0.00	H
ATOM	5518	HD3	ARG	339	68.249	28.895	21.449	1.00 0.00	H
ATOM	5519	HE	ARG	339	68.662	30.810	22.591	1.00 0.00	H
ATOM	5520	HH12	ARG	339	65.214	32.678	22.456	1.00 0.00	H
ATOM	5521	HH11	ARG	339	65.333	31.148	21.678	1.00 0.00	H
ATOM	5522	HH22	ARG	339	66.907	33.272	24.118	1.00 0.00	H
ATOM	5523	HH21	ARG	339	68.077	32.044	24.543	1.00 0.00	H
ATOM	5524	N	SER	340	69.952	33.224	17.934	1.00 48.41	N
ATOM	5525	CA	SER	340	70.869	34.339	17.700	1.00 48.41	C
ATOM	5526	C	SER	340	70.432	35.262	16.546	1.00 48.41	C
ATOM	5527	O	SER	340	70.708	36.458	16.586	1.00 48.41	O
ATOM	5528	CB	SER	340	72.284	33.786	17.426	1.00 48.41	C
ATOM	5529	OG	SER	340	72.777	32.998	18.498	1.00 48.41	O
ATOM	5530	H	SER	340	70.394	32.305	17.992	1.00 0.00	H
ATOM	5531	HA	SER	340	70.888	34.943	18.604	1.00 0.00	H
ATOM	5532	HB2	SER	340	72.288	33.186	16.515	1.00 0.00	H
ATOM	5533	HB3	SER	340	72.985	34.603	17.258	1.00 0.00	H
ATOM	5534	HG	SER	340	72.693	33.487	19.321	1.00 0.00	H
ATOM	5535	N	MET	341	69.724	34.720	15.545	1.00138.31	N
ATOM	5536	CA	MET	341	69.191	35.460	14.406	1.00138.31	C

ATOM	5537	C	MET	341	68.015	36.385	14.791	1.00138.31	C
ATOM	5538	O	MET	341	67.803	37.377	14.100	1.00138.31	O
ATOM	5539	CB	MET	341	68.736	34.433	13.344	1.00138.31	C
ATOM	5540	CG	MET	341	68.391	35.043	11.976	1.00138.31	C
ATOM	5541	SD	MET	341	68.183	33.810	10.659	1.00138.31	S
ATOM	5542	CE	MET	341	67.611	34.900	9.327	1.00138.31	C
ATOM	5543	H	MET	341	69.610	33.713	15.550	1.00 0.00	H
ATOM	5544	HA	MET	341	69.991	36.078	13.992	1.00 0.00	H
ATOM	5545	HB2	MET	341	69.549	33.725	13.183	1.00 0.00	H
ATOM	5546	HB3	MET	341	67.893	33.846	13.711	1.00 0.00	H
ATOM	5547	HG2	MET	341	67.473	35.627	12.048	1.00 0.00	H
ATOM	5548	HG3	MET	341	69.177	35.736	11.671	1.00 0.00	H
ATOM	5549	HE1	MET	341	67.543	34.353	8.387	1.00 0.00	H
ATOM	5550	HE2	MET	341	66.627	35.306	9.563	1.00 0.00	H
ATOM	5551	HE3	MET	341	68.299	35.734	9.186	1.00 0.00	H
ATOM	5552	N	PHE	342	67.252	36.083	15.856	1.00 65.01	N
ATOM	5553	CA	PHE	342	66.203	36.958	16.401	1.00 65.01	C
ATOM	5554	C	PHE	342	65.760	36.587	17.843	1.00 65.01	C
ATOM	5555	O	PHE	342	65.971	37.427	18.718	1.00 65.01	O
ATOM	5556	CB	PHE	342	65.051	37.238	15.388	1.00 65.01	C
ATOM	5557	CG	PHE	342	63.769	37.826	15.959	1.00 65.01	C
ATOM	5558	CD1	PHE	342	63.778	39.114	16.534	1.00 65.01	C
ATOM	5559	CD2	PHE	342	62.565	37.090	15.918	1.00 65.01	C
ATOM	5560	CE1	PHE	342	62.597	39.657	17.075	1.00 65.01	C
ATOM	5561	CE2	PHE	342	61.384	37.635	16.458	1.00 65.01	C
ATOM	5562	CZ	PHE	342	61.400	38.917	17.039	1.00 65.01	C
ATOM	5563	H	PHE	342	67.562	35.322	16.452	1.00 0.00	H
ATOM	5564	HA	PHE	342	66.695	37.925	16.532	1.00 0.00	H
ATOM	5565	HB2	PHE	342	65.401	37.958	14.648	1.00 0.00	H
ATOM	5566	HB3	PHE	342	64.819	36.351	14.801	1.00 0.00	H
ATOM	5567	HD1	PHE	342	64.692	39.692	16.567	1.00 0.00	H
ATOM	5568	HD2	PHE	342	62.534	36.109	15.467	1.00 0.00	H
ATOM	5569	HE1	PHE	342	62.608	40.645	17.515	1.00 0.00	H
ATOM	5570	HE2	PHE	342	60.461	37.074	16.420	1.00 0.00	H
ATOM	5571	HZ	PHE	342	60.492	39.338	17.447	1.00 0.00	H
ATOM	5572	N	PRO	343	65.129	35.409	18.117	1.00190.97	N
ATOM	5573	CA	PRO	343	64.490	34.993	19.401	1.00190.97	C
ATOM	5574	C	PRO	343	65.226	35.110	20.770	1.00190.97	C
ATOM	5575	O	PRO	343	64.908	34.331	21.677	1.00190.97	O
ATOM	5576	CD	PRO	343	64.862	34.393	17.087	1.00190.97	C
ATOM	5577	CB	PRO	343	64.087	33.521	19.185	1.00190.97	C
ATOM	5578	CG	PRO	343	63.916	33.362	17.693	1.00190.97	C
ATOM	5579	HA	PRO	343	63.583	35.595	19.486	1.00 0.00	H
ATOM	5580	HD3	PRO	343	64.405	34.792	16.188	1.00 0.00	H
ATOM	5581	HD2	PRO	343	65.798	33.917	16.795	1.00 0.00	H
ATOM	5582	HB2	PRO	343	64.881	32.851	19.515	1.00 0.00	H
ATOM	5583	HB3	PRO	343	63.182	33.254	19.734	1.00 0.00	H
ATOM	5584	HG3	PRO	343	62.889	33.610	17.419	1.00 0.00	H
ATOM	5585	HG2	PRO	343	64.115	32.349	17.342	1.00 0.00	H
ATOM	5586	N	SER	344	66.172	36.035	20.943	1.00222.88	N
ATOM	5587	CA	SER	344	67.133	36.288	22.023	1.00222.88	C
ATOM	5588	C	SER	344	68.486	35.620	21.722	1.00222.88	C
ATOM	5589	O	SER	344	68.529	34.499	21.225	1.00222.88	O
ATOM	5590	CB	SER	344	66.582	36.194	23.471	1.00222.88	C
ATOM	5591	OG	SER	344	66.233	34.878	23.850	1.00222.88	O
ATOM	5592	H	SER	344	66.295	36.635	20.125	1.00 0.00	H

ATOM	5593	HA	SER	344	67.328	37.353	21.888	1.00	0.00		H
ATOM	5594	HB2	SER	344	67.328	36.565	24.175	1.00	0.00		H
ATOM	5595	HB3	SER	344	65.707	36.838	23.580	1.00	0.00		H
ATOM	5596	HG	SER	344	65.567	34.645	23.198	1.00	0.00		H
ATOM	5597	N	CYS	345	69.582	36.346	21.973	1.00	142.77		N
ATOM	5598	CA	CYS	345	70.940	36.127	21.462	1.00	142.77		C
ATOM	5599	C	CYS	345	71.576	34.739	21.686	1.00	142.77		C
ATOM	5600	O	CYS	345	72.380	34.302	20.863	1.00	142.77		O
ATOM	5601	CB	CYS	345	71.848	37.248	22.020	1.00	142.77		C
ATOM	5602	SG	CYS	345	71.744	37.381	23.836	1.00	142.77		S
ATOM	5603	H	CYS	345	69.461	37.211	22.476	1.00	0.00		H
ATOM	5604	HA	CYS	345	70.887	36.266	20.383	1.00	0.00		H
ATOM	5605	HB2	CYS	345	72.885	37.089	21.724	1.00	0.00		H
ATOM	5606	HB3	CYS	345	71.554	38.210	21.603	1.00	0.00		H
ATOM	5607	HG	CYS	345	72.661	38.344	23.976	1.00	0.00		H
ATOM	5608	N	GLU	346	71.257	34.087	22.805	1.00	57.61		N
ATOM	5609	CA	GLU	346	71.927	32.906	23.348	1.00	57.61		C
ATOM	5610	C	GLU	346	71.211	31.621	22.848	1.00	57.61		C
ATOM	5611	O	GLU	346	70.108	31.676	22.309	1.00	57.61		O
ATOM	5612	CB	GLU	346	71.859	33.103	24.889	1.00	57.61		C
ATOM	5613	CG	GLU	346	72.917	32.377	25.746	1.00	57.61		C
ATOM	5614	CD	GLU	346	72.591	30.913	25.945	1.00	57.61		C
ATOM	5615	OE1	GLU	346	71.517	30.650	26.521	1.00	57.61		O
ATOM	5616	OE2	GLU	346	73.280	30.099	25.292	1.00	57.61		O1-
ATOM	5617	H	GLU	346	70.509	34.478	23.353	1.00	0.00		H
ATOM	5618	HA	GLU	346	72.967	32.886	23.020	1.00	0.00		H
ATOM	5619	HB2	GLU	346	72.002	34.162	25.110	1.00	0.00		H
ATOM	5620	HB3	GLU	346	70.858	32.882	25.256	1.00	0.00		H
ATOM	5621	HG2	GLU	346	73.913	32.488	25.317	1.00	0.00		H
ATOM	5622	HG3	GLU	346	72.958	32.829	26.738	1.00	0.00		H
ATOM	5623	N	GLY	347	71.790	30.435	23.053	1.00	132.42		N
ATOM	5624	CA	GLY	347	71.332	29.130	22.578	1.00	132.42		C
ATOM	5625	C	GLY	347	70.691	28.320	23.707	1.00	132.42		C
ATOM	5626	O	GLY	347	70.909	27.115	23.842	1.00	132.42		O
ATOM	5627	H	GLY	347	72.539	30.399	23.757	1.00	0.00		H
ATOM	5628	HA2	GLY	347	70.614	29.224	21.764	1.00	0.00		H
ATOM	5629	HA3	GLY	347	72.194	28.583	22.197	1.00	0.00		H
ATOM	5630	N	THR	348	69.898	29.020	24.510	1.00	290.61		N
ATOM	5631	CA	THR	348	69.262	28.667	25.766	1.00	290.61		C
ATOM	5632	C	THR	348	68.454	27.354	25.716	1.00	290.61		C
ATOM	5633	O	THR	348	67.845	27.005	24.702	1.00	290.61		O
ATOM	5634	CB	THR	348	68.392	29.892	26.165	1.00	290.61		C
ATOM	5635	OG1	THR	348	69.046	31.102	25.786	1.00	290.61		O
ATOM	5636	CG2	THR	348	68.107	29.977	27.671	1.00	290.61		C
ATOM	5637	H	THR	348	69.911	30.022	24.377	1.00	0.00		H
ATOM	5638	HA	THR	348	70.071	28.545	26.490	1.00	0.00		H
ATOM	5639	HB	THR	348	67.442	29.853	25.627	1.00	0.00		H
ATOM	5640	HG1	THR	348	69.951	31.037	26.162	1.00	0.00		H
ATOM	5641	HG21	THR	348	67.512	30.860	27.909	1.00	0.00		H
ATOM	5642	HG22	THR	348	67.556	29.107	28.028	1.00	0.00		H
ATOM	5643	HG23	THR	348	69.035	30.042	28.240	1.00	0.00		H
ATOM	5644	N	ALA	349	68.441	26.637	26.843	1.00	271.58		N
ATOM	5645	CA	ALA	349	67.575	25.497	27.128	1.00	271.58		C
ATOM	5646	C	ALA	349	67.378	25.459	28.642	1.00	271.58		C
ATOM	5647	O	ALA	349	66.283	25.661	29.152	1.00	271.58		O
ATOM	5648	CB	ALA	349	68.143	24.199	26.528	1.00	271.58		C

ATOM	5649	H	ALA	349	68.934	27.035	27.638	1.00	0.00	H
ATOM	5650	HA	ALA	349	66.594	25.684	26.685	1.00	0.00	H
ATOM	5651	HB1	ALA	349	67.511	23.347	26.784	1.00	0.00	H
ATOM	5652	HB2	ALA	349	68.189	24.262	25.441	1.00	0.00	H
ATOM	5653	HB3	ALA	349	69.149	23.989	26.894	1.00	0.00	H
ATOM	5654	N	GLN	350	68.501	25.318	29.348	1.00261.32		N
ATOM	5655	CA	GLN	350	68.711	25.778	30.719	1.00261.32		C
ATOM	5656	C	GLN	350	69.287	27.215	30.584	1.00261.32		C
ATOM	5657	O	GLN	350	69.797	27.539	29.505	1.00261.32		O
ATOM	5658	CB	GLN	350	69.767	24.872	31.431	1.00261.32		C
ATOM	5659	CG	GLN	350	69.915	23.410	30.926	1.00261.32		C
ATOM	5660	CD	GLN	350	70.751	23.229	29.650	1.00261.32		C
ATOM	5661	OE1	GLN	350	70.824	22.136	29.091	1.00261.32		O
ATOM	5662	NE2	GLN	350	71.388	24.278	29.146	1.00261.32		N
ATOM	5663	H	GLN	350	69.345	25.198	28.805	1.00	0.00	H
ATOM	5664	HA	GLN	350	67.766	25.780	31.265	1.00	0.00	H
ATOM	5665	HB2	GLN	350	70.748	25.344	31.466	1.00	0.00	H
ATOM	5666	HB3	GLN	350	69.477	24.813	32.480	1.00	0.00	H
ATOM	5667	HG2	GLN	350	70.399	22.818	31.704	1.00	0.00	H
ATOM	5668	HG3	GLN	350	68.932	22.961	30.778	1.00	0.00	H
ATOM	5669	HE22	GLN	350	71.908	24.192	28.261	1.00	0.00	H
ATOM	5670	HE21	GLN	350	71.512	25.129	29.687	1.00	0.00	H
ATOM	5671	N	PRO	351	69.258	28.065	31.635	1.00169.99		N
ATOM	5672	CA	PRO	351	69.735	29.461	31.568	1.00169.99		C
ATOM	5673	C	PRO	351	71.271	29.642	31.553	1.00169.99		C
ATOM	5674	O	PRO	351	71.749	30.771	31.542	1.00169.99		O
ATOM	5675	CD	PRO	351	68.700	27.763	32.957	1.00169.99		C
ATOM	5676	CB	PRO	351	69.104	30.133	32.799	1.00169.99		C
ATOM	5677	CG	PRO	351	68.948	29.008	33.811	1.00169.99		C
ATOM	5678	HA	PRO	351	69.354	29.943	30.666	1.00	0.00	H
ATOM	5679	HD3	PRO	351	67.628	27.582	32.866	1.00	0.00	H
ATOM	5680	HD2	PRO	351	69.159	26.888	33.416	1.00	0.00	H
ATOM	5681	HB2	PRO	351	69.683	30.971	33.192	1.00	0.00	H
ATOM	5682	HB3	PRO	351	68.121	30.525	32.533	1.00	0.00	H
ATOM	5683	HG3	PRO	351	68.153	29.195	34.534	1.00	0.00	H
ATOM	5684	HG2	PRO	351	69.880	28.896	34.369	1.00	0.00	H
ATOM	5685	N	LEU	352	72.047	28.553	31.545	1.00240.30		N
ATOM	5686	CA	LEU	352	73.491	28.508	31.362	1.00240.30		C
ATOM	5687	C	LEU	352	73.784	27.199	30.618	1.00240.30		C
ATOM	5688	O	LEU	352	73.020	26.233	30.755	1.00240.30		O
ATOM	5689	CB	LEU	352	74.208	28.695	32.721	1.00240.30		C
ATOM	5690	CG	LEU	352	75.754	28.775	32.665	1.00240.30		C
ATOM	5691	CD1	LEU	352	76.289	29.793	33.685	1.00240.30		C
ATOM	5692	CD2	LEU	352	76.425	27.410	32.899	1.00240.30		C
ATOM	5693	H	LEU	352	71.606	27.650	31.495	1.00	0.00	H
ATOM	5694	HA	LEU	352	73.775	29.331	30.701	1.00	0.00	H
ATOM	5695	HB2	LEU	352	73.831	29.626	33.149	1.00	0.00	H
ATOM	5696	HB3	LEU	352	73.899	27.918	33.421	1.00	0.00	H
ATOM	5697	HG	LEU	352	76.048	29.142	31.680	1.00	0.00	H
ATOM	5698	HD11	LEU	352	77.375	29.873	33.635	1.00	0.00	H
ATOM	5699	HD12	LEU	352	75.885	30.790	33.500	1.00	0.00	H
ATOM	5700	HD13	LEU	352	76.024	29.514	34.706	1.00	0.00	H
ATOM	5701	HD21	LEU	352	77.510	27.491	32.816	1.00	0.00	H
ATOM	5702	HD22	LEU	352	76.202	27.026	33.895	1.00	0.00	H
ATOM	5703	HD23	LEU	352	76.105	26.658	32.179	1.00	0.00	H
ATOM	5704	N	ASP	353	74.847	27.150	29.804	1.00190.14		N

ATOM	5705	CA	ASP	353	75.216	25.975	29.016	1.00190.14	C
ATOM	5706	C	ASP	353	76.672	26.014	28.540	1.00190.14	C
ATOM	5707	O	ASP	353	77.374	27.010	28.686	1.00190.14	O
ATOM	5708	CB	ASP	353	74.240	25.783	27.824	1.00190.14	C
ATOM	5709	CG	ASP	353	74.032	24.328	27.434	1.00190.14	C
ATOM	5710	OD1	ASP	353	74.878	23.452	27.709	1.00190.14	O
ATOM	5711	OD2	ASP	353	72.939	24.004	26.935	1.00190.14	O1-
ATOM	5712	H	ASP	353	75.464	27.949	29.732	1.00 0.00	H
ATOM	5713	HA	ASP	353	75.139	25.122	29.694	1.00 0.00	H
ATOM	5714	HB2	ASP	353	73.259	26.198	28.054	1.00 0.00	H
ATOM	5715	HB3	ASP	353	74.583	26.337	26.952	1.00 0.00	H
ATOM	5716	N	ASN	354	77.073	24.939	27.854	1.00190.43	N
ATOM	5717	CA	ASN	354	78.060	24.940	26.780	1.00190.43	C
ATOM	5718	C	ASN	354	77.365	25.594	25.572	1.00190.43	C
ATOM	5719	O	ASN	354	76.531	24.973	24.906	1.00190.43	O
ATOM	5720	CB	ASN	354	78.450	23.480	26.417	1.00190.43	C
ATOM	5721	CG	ASN	354	79.360	22.742	27.404	1.00190.43	C
ATOM	5722	OD1	ASN	354	79.935	21.711	27.060	1.00190.43	O
ATOM	5723	ND2	ASN	354	79.503	23.218	28.636	1.00190.43	N
ATOM	5724	H	ASN	354	76.327	24.234	27.770	1.00 0.00	H
ATOM	5725	HA	ASN	354	78.944	25.516	27.060	1.00 0.00	H
ATOM	5726	HB2	ASN	354	77.550	22.881	26.284	1.00 0.00	H
ATOM	5727	HB3	ASN	354	78.956	23.459	25.452	1.00 0.00	H
ATOM	5728	HD22	ASN	354	80.100	22.743	29.295	1.00 0.00	H
ATOM	5729	HD21	ASN	354	78.996	24.048	28.917	1.00 0.00	H
ATOM	5730	N	SER	355	77.666	26.872	25.344	1.00212.17	N
ATOM	5731	CA	SER	355	77.106	27.736	24.317	1.00212.17	C
ATOM	5732	C	SER	355	78.149	28.823	24.018	1.00212.17	C
ATOM	5733	O	SER	355	78.940	29.165	24.899	1.00212.17	O
ATOM	5734	CB	SER	355	75.731	28.259	24.771	1.00212.17	C
ATOM	5735	OG	SER	355	75.092	29.037	23.788	1.00212.17	O
ATOM	5736	H	SER	355	78.311	27.356	25.959	1.00 0.00	H
ATOM	5737	HA	SER	355	76.970	27.143	23.412	1.00 0.00	H
ATOM	5738	HB2	SER	355	75.059	27.438	25.016	1.00 0.00	H
ATOM	5739	HB3	SER	355	75.833	28.864	25.674	1.00 0.00	H
ATOM	5740	HG	SER	355	74.375	29.487	24.275	1.00 0.00	H
ATOM	5741	N	MET	356	78.195	29.307	22.774	1.00167.53	N
ATOM	5742	CA	MET	356	79.042	30.389	22.268	1.00167.53	C
ATOM	5743	C	MET	356	78.536	30.742	20.857	1.00167.53	C
ATOM	5744	O	MET	356	77.737	29.995	20.275	1.00167.53	O
ATOM	5745	CB	MET	356	80.550	30.020	22.339	1.00167.53	C
ATOM	5746	CG	MET	356	81.547	31.114	21.908	1.00167.53	C
ATOM	5747	SD	MET	356	81.308	32.753	22.653	1.00167.53	S
ATOM	5748	CE	MET	356	81.578	32.378	24.408	1.00167.53	C
ATOM	5749	H	MET	356	77.422	29.075	22.161	1.00 0.00	H
ATOM	5750	HA	MET	356	78.855	31.256	22.905	1.00 0.00	H
ATOM	5751	HB2	MET	356	80.810	29.756	23.362	1.00 0.00	H
ATOM	5752	HB3	MET	356	80.734	29.120	21.757	1.00 0.00	H
ATOM	5753	HG2	MET	356	82.560	30.783	22.139	1.00 0.00	H
ATOM	5754	HG3	MET	356	81.528	31.242	20.826	1.00 0.00	H
ATOM	5755	HE1	MET	356	81.525	33.293	24.998	1.00 0.00	H
ATOM	5756	HE2	MET	356	80.818	31.691	24.782	1.00 0.00	H
ATOM	5757	HE3	MET	356	82.560	31.929	24.560	1.00 0.00	H
ATOM	5758	N	GLY	357	78.979	31.880	20.316	1.00 52.63	N
ATOM	5759	CA	GLY	357	78.446	32.488	19.108	1.00 52.63	C
ATOM	5760	C	GLY	357	79.414	32.400	17.927	1.00 52.63	C

ATOM	5761	O	GLY	357	80.547	32.892	17.978	1.00	52.63	O
ATOM	5762	H	GLY	357	79.682	32.406	20.821	1.00	0.00	H
ATOM	5763	HA2	GLY	357	77.468	32.078	18.849	1.00	0.00	H
ATOM	5764	HA3	GLY	357	78.276	33.546	19.314	1.00	0.00	H
ATOM	5765	N	ASP	358	78.906	31.841	16.824	1.00	119.38	N
ATOM	5766	CA	ASP	358	79.482	31.896	15.475	1.00	119.38	C
ATOM	5767	C	ASP	358	78.477	32.472	14.458	1.00	119.38	C
ATOM	5768	O	ASP	358	78.792	32.682	13.285	1.00	119.38	O
ATOM	5769	CB	ASP	358	80.112	30.542	15.071	1.00	119.38	C
ATOM	5770	CG	ASP	358	81.568	30.654	14.635	1.00	119.38	C
ATOM	5771	OD1	ASP	358	82.440	30.961	15.484	1.00	119.38	O
ATOM	5772	OD2	ASP	358	81.812	30.508	13.422	1.00	119.38	O1-
ATOM	5773	H	ASP	358	78.018	31.373	16.918	1.00	0.00	H
ATOM	5774	HA	ASP	358	80.267	32.645	15.505	1.00	0.00	H
ATOM	5775	HB2	ASP	358	80.083	29.853	15.910	1.00	0.00	H
ATOM	5776	HB3	ASP	358	79.551	30.068	14.265	1.00	0.00	H
ATOM	5777	N	SER	359	77.272	32.796	14.931	1.00	96.14	N
ATOM	5778	CA	SER	359	76.328	33.724	14.323	1.00	96.14	C
ATOM	5779	C	SER	359	76.656	35.112	14.898	1.00	96.14	C
ATOM	5780	O	SER	359	77.257	35.204	15.967	1.00	96.14	O
ATOM	5781	CB	SER	359	74.913	33.326	14.786	1.00	96.14	C
ATOM	5782	OG	SER	359	74.588	32.042	14.284	1.00	96.14	O
ATOM	5783	H	SER	359	77.147	32.695	15.924	1.00	0.00	H
ATOM	5784	HA	SER	359	76.408	33.745	13.238	1.00	0.00	H
ATOM	5785	HB2	SER	359	74.841	33.317	15.875	1.00	0.00	H
ATOM	5786	HB3	SER	359	74.170	34.040	14.425	1.00	0.00	H
ATOM	5787	HG	SER	359	74.476	32.112	13.331	1.00	0.00	H
ATOM	5788	N	ASP	360	76.300	36.174	14.170	1.00	62.73	N
ATOM	5789	CA	ASP	360	76.729	37.564	14.367	1.00	62.73	C
ATOM	5790	C	ASP	360	76.393	38.140	15.757	1.00	62.73	C
ATOM	5791	O	ASP	360	77.173	38.900	16.338	1.00	62.73	O
ATOM	5792	CB	ASP	360	76.107	38.495	13.291	1.00	62.73	C
ATOM	5793	CG	ASP	360	76.030	37.998	11.848	1.00	62.73	C
ATOM	5794	OD1	ASP	360	75.394	38.727	11.054	1.00	62.73	O
ATOM	5795	OD2	ASP	360	76.577	36.927	11.505	1.00	62.73	O1-
ATOM	5796	H	ASP	360	75.931	35.999	13.240	1.00	0.00	H
ATOM	5797	HA	ASP	360	77.810	37.580	14.239	1.00	0.00	H
ATOM	5798	HB2	ASP	360	75.087	38.752	13.577	1.00	0.00	H
ATOM	5799	HB3	ASP	360	76.654	39.439	13.285	1.00	0.00	H
ATOM	5800	N	CYS	361	75.214	37.777	16.274	1.00	87.51	N
ATOM	5801	CA	CYS	361	74.690	38.192	17.572	1.00	87.51	C
ATOM	5802	C	CYS	361	75.405	37.410	18.691	1.00	87.51	C
ATOM	5803	O	CYS	361	75.825	36.277	18.476	1.00	87.51	O
ATOM	5804	CB	CYS	361	73.182	37.892	17.588	1.00	87.51	C
ATOM	5805	SG	CYS	361	72.322	38.831	18.879	1.00	87.51	S
ATOM	5806	H	CYS	361	74.706	37.069	15.770	1.00	0.00	H
ATOM	5807	HA	CYS	361	74.860	39.264	17.685	1.00	0.00	H
ATOM	5808	HB2	CYS	361	72.729	38.171	16.635	1.00	0.00	H
ATOM	5809	HB3	CYS	361	72.994	36.830	17.736	1.00	0.00	H
ATOM	5810	HG	CYS	361	71.092	38.533	18.438	1.00	0.00	H
ATOM	5811	N	LEU	362	75.553	38.053	19.859	1.00	300.90	N
ATOM	5812	CA	LEU	362	76.466	37.762	20.980	1.00	300.90	C
ATOM	5813	C	LEU	362	77.744	38.616	20.912	1.00	300.90	C
ATOM	5814	O	LEU	362	78.523	38.611	21.857	1.00	300.90	O
ATOM	5815	CB	LEU	362	76.741	36.262	21.283	1.00	300.90	C
ATOM	5816	CG	LEU	362	75.507	35.413	21.659	1.00	300.90	C

ATOM	5817	CD1 LEU	362	75.781	33.918	21.430	1.00300.90	C
ATOM	5818	CD2 LEU	362	75.065	35.658	23.112	1.00300.90	C
ATOM	5819	H LEU	362	75.071	38.936	19.933	1.00 0.00	H
ATOM	5820	HA LEU	362	75.949	38.155	21.856	1.00 0.00	H
ATOM	5821	HB2 LEU	362	77.256	35.820	20.431	1.00 0.00	H
ATOM	5822	HB3 LEU	362	77.467	36.188	22.095	1.00 0.00	H
ATOM	5823	HG LEU	362	74.685	35.683	20.998	1.00 0.00	H
ATOM	5824	HD11 LEU	362	74.914	33.312	21.689	1.00 0.00	H
ATOM	5825	HD12 LEU	362	76.003	33.723	20.380	1.00 0.00	H
ATOM	5826	HD13 LEU	362	76.625	33.567	22.025	1.00 0.00	H
ATOM	5827	HD21 LEU	362	74.176	35.078	23.358	1.00 0.00	H
ATOM	5828	HD22 LEU	362	75.845	35.373	23.819	1.00 0.00	H
ATOM	5829	HD23 LEU	362	74.827	36.705	23.293	1.00 0.00	H
ATOM	5830	N HIS	363	77.939	39.355	19.808	1.00176.75	N
ATOM	5831	CA HIS	363	79.098	40.186	19.474	1.00176.75	C
ATOM	5832	C HIS	363	80.190	39.306	18.858	1.00176.75	C
ATOM	5833	O HIS	363	81.246	39.080	19.452	1.00176.75	O
ATOM	5834	ND1 HIS	363	80.480	43.144	19.291	1.00176.75	N
ATOM	5835	CG HIS	363	80.670	42.090	20.173	1.00176.75	C
ATOM	5836	CB HIS	363	79.574	41.140	20.600	1.00176.75	C
ATOM	5837	NE2 HIS	363	82.641	43.147	19.791	1.00176.75	N
ATOM	5838	CD2 HIS	363	82.013	42.109	20.480	1.00176.75	C
ATOM	5839	CE1 HIS	363	81.667	43.729	19.105	1.00176.75	C
ATOM	5840	H HIS	363	77.281	39.195	19.062	1.00 0.00	H
ATOM	5841	HA HIS	363	78.756	40.832	18.665	1.00 0.00	H
ATOM	5842	HD1 HIS	363	79.617	43.462	18.878	1.00 0.00	H
ATOM	5843	HB2 HIS	363	78.739	41.722	20.989	1.00 0.00	H
ATOM	5844	HB3 HIS	363	79.971	40.570	21.441	1.00 0.00	H
ATOM	5845	HD2 HIS	363	82.574	41.444	21.122	1.00 0.00	H
ATOM	5846	HE1 HIS	363	81.825	44.584	18.461	1.00 0.00	H
ATOM	5847	N LYS	364	79.925	38.755	17.666	1.00214.64	N
ATOM	5848	CA LYS	364	80.857	37.867	16.982	1.00214.64	C
ATOM	5849	C LYS	364	81.993	38.687	16.337	1.00214.64	C
ATOM	5850	O LYS	364	82.058	38.885	15.123	1.00214.64	O
ATOM	5851	CB LYS	364	80.099	37.014	15.944	1.00214.64	C
ATOM	5852	CG LYS	364	80.684	35.601	15.768	1.00214.64	C
ATOM	5853	CD LYS	364	82.153	35.554	15.304	1.00214.64	C
ATOM	5854	CE LYS	364	82.658	34.131	15.050	1.00214.64	C
ATOM	5855	NZ LYS	364	82.955	33.385	16.281	1.00214.64	N1+
ATOM	5856	H LYS	364	79.034	38.942	17.219	1.00 0.00	H
ATOM	5857	HA LYS	364	81.289	37.192	17.725	1.00 0.00	H
ATOM	5858	HB2 LYS	364	79.077	36.885	16.293	1.00 0.00	H
ATOM	5859	HB3 LYS	364	80.012	37.517	14.981	1.00 0.00	H
ATOM	5860	HG2 LYS	364	80.580	35.072	16.713	1.00 0.00	H
ATOM	5861	HG3 LYS	364	80.059	35.066	15.052	1.00 0.00	H
ATOM	5862	HD2 LYS	364	82.238	36.120	14.375	1.00 0.00	H
ATOM	5863	HD3 LYS	364	82.816	36.043	16.018	1.00 0.00	H
ATOM	5864	HE2 LYS	364	81.922	33.568	14.495	1.00 0.00	H
ATOM	5865	HE3 LYS	364	83.541	34.163	14.416	1.00 0.00	H
ATOM	5866	HZ1 LYS	364	83.855	33.678	16.656	1.00 0.00	H
ATOM	5867	HZ2 LYS	364	82.220	33.449	16.974	1.00 0.00	H
ATOM	5868	HZ3 LYS	364	82.994	32.389	16.008	1.00 0.00	H
ATOM	5869	N HIS	365	82.910	39.154	17.181	1.00147.45	N
ATOM	5870	CA HIS	365	84.245	39.636	16.826	1.00147.45	C
ATOM	5871	C HIS	365	85.311	38.750	17.495	1.00147.45	C
ATOM	5872	O HIS	365	86.500	38.904	17.233	1.00147.45	O

ATOM	5873	ND1	HIS	365	82.687	41.700	15.339	1.00147.45	N
ATOM	5874	CG	HIS	365	83.578	42.094	16.329	1.00147.45	C
ATOM	5875	CB	HIS	365	84.395	41.133	17.171	1.00147.45	C
ATOM	5876	NE2	HIS	365	82.595	43.912	15.383	1.00147.45	N
ATOM	5877	CD2	HIS	365	83.521	43.470	16.332	1.00147.45	C
ATOM	5878	CE1	HIS	365	82.138	42.801	14.825	1.00147.45	C
ATOM	5879	H	HIS	365	82.654	39.151	18.167	1.00 0.00	H
ATOM	5880	HA	HIS	365	84.419	39.522	15.754	1.00 0.00	H
ATOM	5881	HD1	HIS	365	82.463	40.738	15.082	1.00 0.00	H
ATOM	5882	HB2	HIS	365	84.148	41.304	18.220	1.00 0.00	H
ATOM	5883	HB3	HIS	365	85.439	41.430	17.063	1.00 0.00	H
ATOM	5884	HD2	HIS	365	84.061	44.170	16.955	1.00 0.00	H
ATOM	5885	HE1	HIS	365	81.395	42.792	14.040	1.00 0.00	H
ATOM	5886	N	ALA	366	84.883	37.766	18.303	1.00 94.37	N
ATOM	5887	CA	ALA	366	85.718	36.721	18.873	1.00 94.37	C
ATOM	5888	C	ALA	366	85.957	35.647	17.799	1.00 94.37	C
ATOM	5889	O	ALA	366	85.017	34.981	17.354	1.00 94.37	O
ATOM	5890	CB	ALA	366	84.962	36.086	20.054	1.00 94.37	C
ATOM	5891	H	ALA	366	83.890	37.686	18.443	1.00 0.00	H
ATOM	5892	HA	ALA	366	86.664	37.141	19.224	1.00 0.00	H
ATOM	5893	HB1	ALA	366	85.544	35.279	20.502	1.00 0.00	H
ATOM	5894	HB2	ALA	366	84.772	36.820	20.837	1.00 0.00	H
ATOM	5895	HB3	ALA	366	84.000	35.667	19.753	1.00 0.00	H
ATOM	5896	N	ASN	367	87.219	35.512	17.393	1.00173.88	N
ATOM	5897	CA	ASN	367	87.820	34.543	16.477	1.00173.88	C
ATOM	5898	C	ASN	367	89.339	34.615	16.718	1.00173.88	C
ATOM	5899	O	ASN	367	89.796	35.422	17.530	1.00173.88	O
ATOM	5900	CB	ASN	367	87.407	34.809	14.997	1.00173.88	C
ATOM	5901	CG	ASN	367	86.540	33.701	14.388	1.00173.88	C
ATOM	5902	OD1	ASN	367	85.656	33.162	15.043	1.00173.88	O
ATOM	5903	ND2	ASN	367	86.762	33.326	13.132	1.00173.88	N
ATOM	5904	H	ASN	367	87.914	36.121	17.815	1.00 0.00	H
ATOM	5905	HA	ASN	367	87.508	33.545	16.794	1.00 0.00	H
ATOM	5906	HB2	ASN	367	86.849	35.742	14.920	1.00 0.00	H
ATOM	5907	HB3	ASN	367	88.286	34.949	14.366	1.00 0.00	H
ATOM	5908	HD22	ASN	367	86.146	32.629	12.741	1.00 0.00	H
ATOM	5909	HD21	ASN	367	87.452	33.771	12.524	1.00 0.00	H
ATOM	5910	N	ASN	368	90.138	33.808	16.017	1.00100.78	N
ATOM	5911	CA	ASN	368	91.603	33.867	16.037	1.00100.78	C
ATOM	5912	C	ASN	368	92.123	33.572	14.625	1.00100.78	C
ATOM	5913	O	ASN	368	91.458	32.863	13.868	1.00100.78	O
ATOM	5914	CB	ASN	368	92.177	32.965	17.158	1.00100.78	C
ATOM	5915	CG	ASN	368	93.700	33.045	17.289	1.00100.78	C
ATOM	5916	OD1	ASN	368	94.418	32.275	16.659	1.00100.78	O
ATOM	5917	ND2	ASN	368	94.216	33.968	18.091	1.00100.78	N
ATOM	5918	H	ASN	368	89.730	33.175	15.345	1.00 0.00	H
ATOM	5919	HA	ASN	368	91.899	34.896	16.255	1.00 0.00	H
ATOM	5920	HB2	ASN	368	91.726	33.226	18.116	1.00 0.00	H
ATOM	5921	HB3	ASN	368	91.915	31.924	16.976	1.00 0.00	H
ATOM	5922	HD22	ASN	368	95.221	34.034	18.160	1.00 0.00	H
ATOM	5923	HD21	ASN	368	93.629	34.597	18.620	1.00 0.00	H
ATOM	5924	N	ALA	369	93.288	34.133	14.291	1.00 63.26	N
ATOM	5925	CA	ALA	369	94.077	33.956	13.081	1.00 63.26	C
ATOM	5926	C	ALA	369	95.519	34.362	13.397	1.00 63.26	C
ATOM	5927	O	ALA	369	95.762	35.049	14.393	1.00 63.26	O
ATOM	5928	CB	ALA	369	93.511	34.787	11.923	1.00 63.26	C

ATOM	5929	H	ALA	369	93.796	34.664	14.990	1.00	0.00	H
ATOM	5930	HA	ALA	369	94.063	32.901	12.805	1.00	0.00	H
ATOM	5931	HB1	ALA	369	94.151	34.713	11.043	1.00	0.00	H
ATOM	5932	HB2	ALA	369	92.534	34.421	11.639	1.00	0.00	H
ATOM	5933	HB3	ALA	369	93.430	35.842	12.185	1.00	0.00	H
ATOM	5934	N	ALA	370	96.455	33.986	12.525	1.00218.41		N
ATOM	5935	CA	ALA	370	97.802	34.544	12.459	1.00218.41		C
ATOM	5936	C	ALA	370	97.734	35.934	11.802	1.00218.41		C
ATOM	5937	O	ALA	370	96.988	36.136	10.843	1.00218.41		O
ATOM	5938	CB	ALA	370	98.665	33.638	11.569	1.00218.41		C
ATOM	5939	H	ALA	370	96.149	33.392	11.746	1.00	0.00	H
ATOM	5940	HA	ALA	370	98.232	34.610	13.460	1.00	0.00	H
ATOM	5941	HB1	ALA	370	99.687	34.013	11.497	1.00	0.00	H
ATOM	5942	HB2	ALA	370	98.720	32.630	11.971	1.00	0.00	H
ATOM	5943	HB3	ALA	370	98.265	33.566	10.556	1.00	0.00	H
ATOM	5944	N	SER	371	98.508	36.890	12.316	1.00149.15		N
ATOM	5945	CA	SER	371	98.644	38.245	11.800	1.00149.15		C
ATOM	5946	C	SER	371	99.961	38.831	12.337	1.00149.15		C
ATOM	5947	O	SER	371	100.680	38.174	13.095	1.00149.15		O
ATOM	5948	CB	SER	371	97.378	39.081	12.118	1.00149.15		C
ATOM	5949	OG	SER	371	97.408	40.356	11.491	1.00149.15		O
ATOM	5950	H	SER	371	99.148	36.669	13.069	1.00	0.00	H
ATOM	5951	HA	SER	371	98.751	38.175	10.716	1.00	0.00	H
ATOM	5952	HB2	SER	371	96.478	38.565	11.781	1.00	0.00	H
ATOM	5953	HB3	SER	371	97.280	39.216	13.196	1.00	0.00	H
ATOM	5954	HG	SER	371	96.640	40.841	11.760	1.00	0.00	H
ATOM	5955	N	VAL	372	100.269	40.072	11.954	1.00	54.01	N
ATOM	5956	CA	VAL	372	101.386	40.855	12.465	1.00	54.01	C
ATOM	5957	C	VAL	372	100.864	41.578	13.721	1.00	54.01	C
ATOM	5958	O	VAL	372	99.881	42.316	13.655	1.00	54.01	O
ATOM	5959	CB	VAL	372	101.820	41.892	11.388	1.00	54.01	C
ATOM	5960	CG1	VAL	372	103.025	42.743	11.838	1.00	54.01	C
ATOM	5961	CG2	VAL	372	102.147	41.222	10.037	1.00	54.01	C
ATOM	5962	H	VAL	372	99.529	40.574	11.474	1.00	0.00	H
ATOM	5963	HA	VAL	372	102.227	40.204	12.714	1.00	0.00	H
ATOM	5964	HB	VAL	372	100.988	42.578	11.211	1.00	0.00	H
ATOM	5965	HG11	VAL	372	103.315	43.454	11.064	1.00	0.00	H
ATOM	5966	HG12	VAL	372	102.804	43.325	12.734	1.00	0.00	H
ATOM	5967	HG13	VAL	372	103.893	42.120	12.055	1.00	0.00	H
ATOM	5968	HG21	VAL	372	102.475	41.957	9.301	1.00	0.00	H
ATOM	5969	HG22	VAL	372	102.942	40.483	10.144	1.00	0.00	H
ATOM	5970	HG23	VAL	372	101.280	40.716	9.612	1.00	0.00	H
ATOM	5971	N	HIS	373	101.520	41.361	14.864	1.00207.53		N
ATOM	5972	CA	HIS	373	101.205	42.022	16.126	1.00207.53		C
ATOM	5973	C	HIS	373	101.964	43.361	16.182	1.00207.53		C
ATOM	5974	O	HIS	373	103.109	43.449	15.734	1.00207.53		O
ATOM	5975	ND1	HIS	373	102.022	41.381	19.801	1.00207.53		N
ATOM	5976	CG	HIS	373	101.267	41.584	18.659	1.00207.53		C
ATOM	5977	CB	HIS	373	101.705	41.131	17.287	1.00207.53		C
ATOM	5978	NE2	HIS	373	100.197	42.449	20.464	1.00207.53		N
ATOM	5979	CD2	HIS	373	100.121	42.216	19.092	1.00207.53		C
ATOM	5980	CE1	HIS	373	101.360	41.916	20.826	1.00207.53		C
ATOM	5981	H	HIS	373	102.340	40.776	14.840	1.00	0.00	H
ATOM	5982	HA	HIS	373	100.128	42.181	16.207	1.00	0.00	H
ATOM	5983	HD1	HIS	373	102.973	40.946	19.916	1.00	0.00	H
ATOM	5984	HB2	HIS	373	101.343	40.110	17.160	1.00	0.00	H

ATOM	5985	HB3 HIS	373	102.796	41.068	17.278	1.00	0.00	H
ATOM	5986	HD2 HIS	373	99.253	42.530	18.531	1.00	0.00	H
ATOM	5987	HE1 HIS	373	101.744	41.922	21.838	1.00	0.00	H
ATOM	5988	N ARG	374	101.376	44.394	16.804	1.00285.10		N
ATOM	5989	CA ARG	374	102.040	45.653	17.159	1.00285.10		C
ATOM	5990	C ARG	374	102.843	45.435	18.461	1.00285.10		C
ATOM	5991	O ARG	374	102.667	46.151	19.445	1.00285.10		O
ATOM	5992	CB ARG	374	100.964	46.773	17.266	1.00285.10		C
ATOM	5993	CG ARG	374	101.382	48.192	17.746	1.00285.10		C
ATOM	5994	CD ARG	374	102.718	48.745	17.206	1.00285.10		C
ATOM	5995	NE ARG	374	103.852	48.275	18.021	1.00285.10		N
ATOM	5996	CZ ARG	374	105.163	48.453	17.821	1.00285.10		C
ATOM	5997	NH1 ARG	374	105.599	49.241	16.836	1.00285.10		N
ATOM	5998	NH2 ARG	374	106.032	47.820	18.607	1.00285.10		N1+
ATOM	5999	H ARG	374	100.480	44.217	17.233	1.00	0.00	H
ATOM	6000	HA ARG	374	102.747	45.926	16.373	1.00	0.00	H
ATOM	6001	HB2 ARG	374	100.508	46.880	16.281	1.00	0.00	H
ATOM	6002	HB3 ARG	374	100.159	46.432	17.919	1.00	0.00	H
ATOM	6003	HG2 ARG	374	100.585	48.886	17.473	1.00	0.00	H
ATOM	6004	HG3 ARG	374	101.389	48.222	18.837	1.00	0.00	H
ATOM	6005	HD2 ARG	374	102.857	48.472	16.159	1.00	0.00	H
ATOM	6006	HD3 ARG	374	102.704	49.835	17.255	1.00	0.00	H
ATOM	6007	HE ARG	374	103.547	47.675	18.800	1.00	0.00	H
ATOM	6008	HH12 ARG	374	106.582	49.394	16.665	1.00	0.00	H
ATOM	6009	HH11 ARG	374	104.942	49.736	16.252	1.00	0.00	H
ATOM	6010	HH22 ARG	374	107.040	47.812	18.492	1.00	0.00	H
ATOM	6011	HH21 ARG	374	105.726	47.157	19.336	1.00	0.00	H
ATOM	6012	N ALA	375	103.773	44.478	18.404	1.00305.35		N
ATOM	6013	CA ALA	375	104.574	43.884	19.465	1.00305.35		C
ATOM	6014	C ALA	375	105.028	44.802	20.609	1.00305.35		C
ATOM	6015	O ALA	375	105.701	45.810	20.365	1.00305.35		O
ATOM	6016	CB ALA	375	105.753	43.141	18.825	1.00305.35		C
ATOM	6017	H ALA	375	103.805	43.984	17.518	1.00	0.00	H
ATOM	6018	HA ALA	375	103.925	43.134	19.910	1.00	0.00	H
ATOM	6019	HB1 ALA	375	105.404	42.318	18.199	1.00	0.00	H
ATOM	6020	HB2 ALA	375	106.366	43.803	18.214	1.00	0.00	H
ATOM	6021	HB3 ALA	375	106.397	42.707	19.587	1.00	0.00	H
ATOM	6022	N ALA	376	104.766	44.380	21.848	1.00254.32		N
ATOM	6023	CA ALA	376	105.480	44.796	23.052	1.00254.32		C
ATOM	6024	C ALA	376	106.831	44.054	23.087	1.00254.32		C
ATOM	6025	O ALA	376	107.847	44.631	23.473	1.00254.32		O
ATOM	6026	CB ALA	376	104.658	44.390	24.284	1.00254.32		C
ATOM	6027	H ALA	376	104.340	43.443	21.905	1.00	0.00	H
ATOM	6028	HA ALA	376	105.647	45.875	23.047	1.00	0.00	H
ATOM	6029	HB1 ALA	376	105.166	44.673	25.207	1.00	0.00	H
ATOM	6030	HB2 ALA	376	103.684	44.880	24.282	1.00	0.00	H
ATOM	6031	HB3 ALA	376	104.483	43.313	24.318	1.00	0.00	H
ATOM	6032	N GLU	377	106.859	42.834	22.525	1.00234.76		N
ATOM	6033	CA GLU	377	107.969	41.956	22.139	1.00234.76		C
ATOM	6034	C GLU	377	109.086	42.606	21.283	1.00234.76		C
ATOM	6035	O GLU	377	109.988	41.915	20.819	1.00234.76		O
ATOM	6036	CB GLU	377	107.446	40.657	21.453	1.00234.76		C
ATOM	6037	CG GLU	377	106.104	40.055	21.942	1.00234.76		C
ATOM	6038	CD GLU	377	104.879	40.757	21.368	1.00234.76		C
ATOM	6039	OE1 GLU	377	104.445	41.738	22.004	1.00234.76		O
ATOM	6040	OE2 GLU	377	104.443	40.425	20.246	1.00234.76		O1-

ATOM	6041	H	GLU	377	105.927	42.448	22.316	1.00	0.00		H
ATOM	6042	HA	GLU	377	108.438	41.660	23.078	1.00	0.00		H
ATOM	6043	HB2	GLU	377	107.362	40.815	20.377	1.00	0.00		H
ATOM	6044	HB3	GLU	377	108.216	39.892	21.550	1.00	0.00		H
ATOM	6045	HG2	GLU	377	106.042	39.011	21.634	1.00	0.00		H
ATOM	6046	HG3	GLU	377	106.050	40.055	23.031	1.00	0.00		H
ATOM	6047	N	SER	378	109.066	43.931	21.092	1.00	200.89		N
ATOM	6048	CA	SER	378	110.082	44.729	20.406	1.00	200.89		C
ATOM	6049	C	SER	378	111.399	44.794	21.215	1.00	200.89		C
ATOM	6050	O	SER	378	112.458	45.086	20.652	1.00	200.89		O
ATOM	6051	CB	SER	378	109.530	46.162	20.236	1.00	200.89		C
ATOM	6052	OG	SER	378	108.402	46.196	19.372	1.00	200.89		O
ATOM	6053	H	SER	378	108.373	44.420	21.647	1.00	0.00		H
ATOM	6054	HA	SER	378	110.297	44.287	19.431	1.00	0.00		H
ATOM	6055	HB2	SER	378	109.259	46.592	21.202	1.00	0.00		H
ATOM	6056	HB3	SER	378	110.299	46.810	19.810	1.00	0.00		H
ATOM	6057	HG	SER	378	107.712	45.665	19.765	1.00	0.00		H
ATOM	6058	N	CYS	379	111.340	44.505	22.525	1.00	81.75		N
ATOM	6059	CA	CYS	379	112.471	44.351	23.439	1.00	81.75		C
ATOM	6060	C	CYS	379	113.380	43.185	23.001	1.00	81.75		C
ATOM	6061	O	CYS	379	114.542	43.404	22.647	1.00	81.75		O
ATOM	6062	CB	CYS	379	111.943	44.183	24.886	1.00	81.75		C
ATOM	6063	SG	CYS	379	110.584	42.969	25.012	1.00	81.75		S
ATOM	6064	H	CYS	379	110.432	44.256	22.898	1.00	0.00		H
ATOM	6065	HA	CYS	379	113.071	45.263	23.400	1.00	0.00		H
ATOM	6066	HB2	CYS	379	112.749	43.891	25.561	1.00	0.00		H
ATOM	6067	HB3	CYS	379	111.568	45.140	25.252	1.00	0.00		H
ATOM	6068	HG	CYS	379	110.311	43.175	26.306	1.00	0.00		H
ATOM	6069	N	ILE	380	112.821	41.972	22.914	1.00	97.39		N
ATOM	6070	CA	ILE	380	113.448	40.759	22.393	1.00	97.39		C
ATOM	6071	C	ILE	380	113.459	40.786	20.847	1.00	97.39		C
ATOM	6072	O	ILE	380	113.070	41.778	20.225	1.00	97.39		O
ATOM	6073	CB	ILE	380	112.683	39.522	22.954	1.00	97.39		C
ATOM	6074	CG2	ILE	380	112.860	39.433	24.484	1.00	97.39		C
ATOM	6075	CG1	ILE	380	111.186	39.453	22.557	1.00	97.39		C
ATOM	6076	CD1	ILE	380	110.510	38.120	22.912	1.00	97.39		C
ATOM	6077	H	ILE	380	111.840	41.900	23.146	1.00	0.00		H
ATOM	6078	HA	ILE	380	114.487	40.722	22.728	1.00	0.00		H
ATOM	6079	HB	ILE	380	113.164	38.632	22.543	1.00	0.00		H
ATOM	6080	HG21	ILE	380	112.504	38.481	24.877	1.00	0.00		H
ATOM	6081	HG22	ILE	380	113.909	39.516	24.768	1.00	0.00		H
ATOM	6082	HG23	ILE	380	112.315	40.224	25.002	1.00	0.00		H
ATOM	6083	HG12	ILE	380	110.631	40.267	23.021	1.00	0.00		H
ATOM	6084	HG13	ILE	380	111.077	39.592	21.481	1.00	0.00		H
ATOM	6085	HD11	ILE	380	109.490	38.089	22.528	1.00	0.00		H
ATOM	6086	HD12	ILE	380	111.046	37.274	22.481	1.00	0.00		H
ATOM	6087	HD13	ILE	380	110.449	37.969	23.989	1.00	0.00		H
ATOM	6088	N	LYS	381	113.985	39.739	20.213	1.00	209.82		N
ATOM	6089	CA	LYS	381	114.033	39.526	18.772	1.00	209.82		C
ATOM	6090	C	LYS	381	114.009	38.012	18.531	1.00	209.82		C
ATOM	6091	O	LYS	381	114.438	37.253	19.400	1.00	209.82		O
ATOM	6092	CB	LYS	381	115.241	40.262	18.136	1.00	209.82		C
ATOM	6093	CG	LYS	381	114.925	41.683	17.606	1.00	209.82		C
ATOM	6094	CD	LYS	381	115.985	42.756	17.938	1.00	209.82		C
ATOM	6095	CE	LYS	381	116.089	43.139	19.429	1.00	209.82		C
ATOM	6096	NZ	LYS	381	114.851	43.744	19.950	1.00	209.82		N1+

ATOM	6097	H	LYS	381	114.251	38.918	20.747	1.00	0.00	H
ATOM	6098	HA	LYS	381	113.105	39.906	18.337	1.00	0.00	H
ATOM	6099	HB2	LYS	381	116.072	40.273	18.841	1.00	0.00	H
ATOM	6100	HB3	LYS	381	115.616	39.677	17.293	1.00	0.00	H
ATOM	6101	HG2	LYS	381	114.833	41.618	16.520	1.00	0.00	H
ATOM	6102	HG3	LYS	381	113.943	42.022	17.930	1.00	0.00	H
ATOM	6103	HD2	LYS	381	116.959	42.403	17.593	1.00	0.00	H
ATOM	6104	HD3	LYS	381	115.778	43.651	17.349	1.00	0.00	H
ATOM	6105	HE2	LYS	381	116.328	42.265	20.034	1.00	0.00	H
ATOM	6106	HE3	LYS	381	116.907	43.847	19.573	1.00	0.00	H
ATOM	6107	HZ1	LYS	381	114.918	43.887	20.957	1.00	0.00	H
ATOM	6108	HZ2	LYS	381	114.578	44.610	19.514	1.00	0.00	H
ATOM	6109	HZ3	LYS	381	114.075	43.082	19.862	1.00	0.00	H
ATOM	6110	N	SER	382	113.505	37.583	17.375	1.00	165.89	N
ATOM	6111	CA	SER	382	113.448	36.200	16.919	1.00	165.89	C
ATOM	6112	C	SER	382	113.335	36.231	15.383	1.00	165.89	C
ATOM	6113	O	SER	382	113.483	37.293	14.772	1.00	165.89	O
ATOM	6114	CB	SER	382	112.330	35.425	17.663	1.00	165.89	C
ATOM	6115	OG	SER	382	112.365	34.039	17.367	1.00	165.89	O
ATOM	6116	H	SER	382	113.243	38.247	16.658	1.00	0.00	H
ATOM	6117	HA	SER	382	114.407	35.732	17.151	1.00	0.00	H
ATOM	6118	HB2	SER	382	112.431	35.539	18.743	1.00	0.00	H
ATOM	6119	HB3	SER	382	111.351	35.823	17.391	1.00	0.00	H
ATOM	6120	HG	SER	382	111.608	33.619	17.755	1.00	0.00	H
ATOM	6121	N	THR	383	113.075	35.081	14.765	1.00	256.12	N
ATOM	6122	CA	THR	383	112.825	34.893	13.343	1.00	256.12	C
ATOM	6123	C	THR	383	111.878	33.691	13.158	1.00	256.12	C
ATOM	6124	O	THR	383	111.364	33.142	14.136	1.00	256.12	O
ATOM	6125	CB	THR	383	114.167	34.890	12.553	1.00	256.12	C
ATOM	6126	OG1	THR	383	113.949	34.906	11.151	1.00	256.12	O
ATOM	6127	CG2	THR	383	115.077	33.692	12.873	1.00	256.12	C
ATOM	6128	H	THR	383	112.843	34.281	15.352	1.00	0.00	H
ATOM	6129	HA	THR	383	112.248	35.756	13.003	1.00	0.00	H
ATOM	6130	HB	THR	383	114.707	35.808	12.790	1.00	0.00	H
ATOM	6131	HG1	THR	383	114.776	35.077	10.722	1.00	0.00	H
ATOM	6132	HG21	THR	383	116.027	33.759	12.343	1.00	0.00	H
ATOM	6133	HG22	THR	383	115.304	33.644	13.938	1.00	0.00	H
ATOM	6134	HG23	THR	383	114.610	32.746	12.596	1.00	0.00	H
ATOM	6135	N	VAL	384	111.651	33.295	11.903	1.00	121.50	N
ATOM	6136	CA	VAL	384	110.880	32.125	11.487	1.00	121.50	C
ATOM	6137	C	VAL	384	111.571	30.823	11.951	1.00	121.50	C
ATOM	6138	O	VAL	384	112.801	30.738	11.942	1.00	121.50	O
ATOM	6139	CB	VAL	384	110.708	32.169	9.940	1.00	121.50	C
ATOM	6140	CG1	VAL	384	109.733	33.284	9.525	1.00	121.50	C
ATOM	6141	CG2	VAL	384	112.027	32.293	9.146	1.00	121.50	C
ATOM	6142	H	VAL	384	112.214	33.756	11.198	1.00	0.00	H
ATOM	6143	HA	VAL	384	109.901	32.177	11.968	1.00	0.00	H
ATOM	6144	HB	VAL	384	110.250	31.228	9.638	1.00	0.00	H
ATOM	6145	HG11	VAL	384	109.538	33.263	8.453	1.00	0.00	H
ATOM	6146	HG12	VAL	384	108.774	33.172	10.033	1.00	0.00	H
ATOM	6147	HG13	VAL	384	110.122	34.272	9.773	1.00	0.00	H
ATOM	6148	HG21	VAL	384	111.841	32.246	8.073	1.00	0.00	H
ATOM	6149	HG22	VAL	384	112.536	33.236	9.343	1.00	0.00	H
ATOM	6150	HG23	VAL	384	112.722	31.488	9.385	1.00	0.00	H
ATOM	6151	N	LYS	385	110.793	29.812	12.371	1.00	217.01	N
ATOM	6152	CA	LYS	385	111.331	28.590	12.982	1.00	217.01	C

ATOM	6153	C	LYS	385	112.139	27.753	11.970	1.00217.01	C
ATOM	6154	O	LYS	385	111.720	27.597	10.818	1.00217.01	O
ATOM	6155	CB	LYS	385	110.215	27.758	13.679	1.00217.01	C
ATOM	6156	CG	LYS	385	109.451	26.646	12.908	1.00217.01	C
ATOM	6157	CD	LYS	385	108.219	27.107	12.107	1.00217.01	C
ATOM	6158	CE	LYS	385	108.363	27.027	10.577	1.00217.01	C
ATOM	6159	NZ	LYS	385	109.236	28.084	10.052	1.00217.01	N1+
ATOM	6160	H	LYS	385	109.787	29.972	12.323	1.00 0.00	H
ATOM	6161	HA	LYS	385	112.016	28.928	13.763	1.00 0.00	H
ATOM	6162	HB2	LYS	385	110.713	27.248	14.505	1.00 0.00	H
ATOM	6163	HB3	LYS	385	109.508	28.427	14.172	1.00 0.00	H
ATOM	6164	HG2	LYS	385	110.110	26.012	12.314	1.00 0.00	H
ATOM	6165	HG3	LYS	385	109.074	25.966	13.674	1.00 0.00	H
ATOM	6166	HD2	LYS	385	107.384	26.458	12.380	1.00 0.00	H
ATOM	6167	HD3	LYS	385	107.908	28.101	12.427	1.00 0.00	H
ATOM	6168	HE2	LYS	385	108.735	26.050	10.268	1.00 0.00	H
ATOM	6169	HE3	LYS	385	107.382	27.150	10.117	1.00 0.00	H
ATOM	6170	HZ1	LYS	385	109.235	28.120	9.050	1.00 0.00	H
ATOM	6171	HZ2	LYS	385	108.897	29.002	10.419	1.00 0.00	H
ATOM	6172	HZ3	LYS	385	110.195	27.955	10.385	1.00 0.00	H
ATOM	6173	N	ILE	386	113.268	27.194	12.407	1.00152.98	N
ATOM	6174	CA	ILE	386	114.115	26.295	11.632	1.00152.98	C
ATOM	6175	C	ILE	386	113.524	24.868	11.675	1.00152.98	C
ATOM	6176	O	ILE	386	112.853	24.495	12.639	1.00152.98	O
ATOM	6177	CB	ILE	386	115.554	26.346	12.240	1.00152.98	C
ATOM	6178	CG2	ILE	386	115.624	25.940	13.730	1.00152.98	C
ATOM	6179	CG1	ILE	386	116.620	25.564	11.435	1.00152.98	C
ATOM	6180	CD1	ILE	386	116.820	26.060	9.996	1.00152.98	C
ATOM	6181	H	ILE	386	113.521	27.328	13.373	1.00 0.00	H
ATOM	6182	HA	ILE	386	114.137	26.647	10.600	1.00 0.00	H
ATOM	6183	HB	ILE	386	115.862	27.393	12.202	1.00 0.00	H
ATOM	6184	HG21	ILE	386	116.630	26.082	14.126	1.00 0.00	H
ATOM	6185	HG22	ILE	386	114.956	26.533	14.353	1.00 0.00	H
ATOM	6186	HG23	ILE	386	115.366	24.890	13.877	1.00 0.00	H
ATOM	6187	HG12	ILE	386	117.579	25.655	11.948	1.00 0.00	H
ATOM	6188	HG13	ILE	386	116.398	24.496	11.434	1.00 0.00	H
ATOM	6189	HD11	ILE	386	117.652	25.537	9.522	1.00 0.00	H
ATOM	6190	HD12	ILE	386	115.940	25.897	9.375	1.00 0.00	H
ATOM	6191	HD13	ILE	386	117.053	27.126	9.976	1.00 0.00	H
ATOM	6192	N	ALA	387	113.789	24.077	10.626	1.00202.20	N
ATOM	6193	CA	ALA	387	113.485	22.652	10.492	1.00202.20	C
ATOM	6194	C	ALA	387	112.005	22.409	10.143	1.00202.20	C
ATOM	6195	O	ALA	387	111.402	23.186	9.402	1.00202.20	O
ATOM	6196	CB	ALA	387	114.041	21.820	11.672	1.00202.20	C
ATOM	6197	H	ALA	387	114.266	24.505	9.850	1.00 0.00	H
ATOM	6198	HA	ALA	387	114.033	22.334	9.605	1.00 0.00	H
ATOM	6199	HB1	ALA	387	114.001	20.751	11.460	1.00 0.00	H
ATOM	6200	HB2	ALA	387	115.086	22.066	11.866	1.00 0.00	H
ATOM	6201	HB3	ALA	387	113.486	21.993	12.595	1.00 0.00	H
ATOM	6202	N	LYS	388	111.432	21.312	10.648	1.00280.30	N
ATOM	6203	CA	LYS	388	110.046	20.911	10.484	1.00280.30	C
ATOM	6204	C	LYS	388	109.587	20.265	11.793	1.00280.30	C
ATOM	6205	O	LYS	388	110.276	19.397	12.325	1.00280.30	O
ATOM	6206	CB	LYS	388	109.876	20.028	9.220	1.00280.30	C
ATOM	6207	CG	LYS	388	108.533	19.272	9.148	1.00280.30	C
ATOM	6208	CD	LYS	388	108.177	18.747	7.750	1.00280.30	C

ATOM	6209	CE	LYS	388	106.874	17.927	7.718	1.00280.30	C
ATOM	6210	NZ	LYS	388	105.697	18.728	8.095	1.00280.30	N1+
ATOM	6211	H	LYS	388	111.960	20.759	11.309	1.00 0.00	H
ATOM	6212	HA	LYS	388	109.444	21.811	10.344	1.00 0.00	H
ATOM	6213	HB2	LYS	388	109.987	20.669	8.344	1.00 0.00	H
ATOM	6214	HB3	LYS	388	110.688	19.301	9.167	1.00 0.00	H
ATOM	6215	HG2	LYS	388	108.552	18.442	9.857	1.00 0.00	H
ATOM	6216	HG3	LYS	388	107.747	19.938	9.487	1.00 0.00	H
ATOM	6217	HD2	LYS	388	108.110	19.582	7.049	1.00 0.00	H
ATOM	6218	HD3	LYS	388	108.996	18.121	7.391	1.00 0.00	H
ATOM	6219	HE2	LYS	388	106.717	17.546	6.708	1.00 0.00	H
ATOM	6220	HE3	LYS	388	106.944	17.058	8.376	1.00 0.00	H
ATOM	6221	HZ1	LYS	388	105.619	18.867	9.098	1.00 0.00	H
ATOM	6222	HZ2	LYS	388	105.718	19.648	7.654	1.00 0.00	H
ATOM	6223	HZ3	LYS	388	104.824	18.301	7.796	1.00 0.00	H
ATOM	6224	N	VAL	389	108.412	20.666	12.279	1.00 72.84	N
ATOM	6225	CA	VAL	389	107.720	20.084	13.421	1.00 72.84	C
ATOM	6226	C	VAL	389	106.759	19.001	12.874	1.00 72.84	C
ATOM	6227	O	VAL	389	106.429	18.975	11.682	1.00 72.84	O
ATOM	6228	CB	VAL	389	106.920	21.227	14.125	1.00 72.84	C
ATOM	6229	CG1	VAL	389	106.224	20.789	15.431	1.00 72.84	C
ATOM	6230	CG2	VAL	389	107.802	22.457	14.431	1.00 72.84	C
ATOM	6231	H	VAL	389	107.893	21.373	11.760	1.00 0.00	H
ATOM	6232	HA	VAL	389	108.436	19.637	14.114	1.00 0.00	H
ATOM	6233	HB	VAL	389	106.138	21.570	13.443	1.00 0.00	H
ATOM	6234	HG11	VAL	389	105.795	21.647	15.951	1.00 0.00	H
ATOM	6235	HG12	VAL	389	105.393	20.107	15.252	1.00 0.00	H
ATOM	6236	HG13	VAL	389	106.924	20.313	16.119	1.00 0.00	H
ATOM	6237	HG21	VAL	389	107.234	23.233	14.946	1.00 0.00	H
ATOM	6238	HG22	VAL	389	108.649	22.192	15.065	1.00 0.00	H
ATOM	6239	HG23	VAL	389	108.199	22.920	13.527	1.00 0.00	H
ATOM	6240	N	THR	390	106.238	18.139	13.758	1.00257.66	N
ATOM	6241	CA	THR	390	105.174	17.147	13.533	1.00257.66	C
ATOM	6242	C	THR	390	103.780	17.782	13.237	1.00257.66	C
ATOM	6243	O	THR	390	102.737	17.192	13.514	1.00257.66	O
ATOM	6244	CB	THR	390	105.171	16.169	14.746	1.00257.66	C
ATOM	6245	OG1	THR	390	104.288	15.086	14.533	1.00257.66	O
ATOM	6246	CG2	THR	390	104.815	16.813	16.099	1.00257.66	C
ATOM	6247	H	THR	390	106.553	18.234	14.711	1.00 0.00	H
ATOM	6248	HA	THR	390	105.447	16.575	12.644	1.00 0.00	H
ATOM	6249	HB	THR	390	106.166	15.729	14.834	1.00 0.00	H
ATOM	6250	HG1	THR	390	103.423	15.451	14.367	1.00 0.00	H
ATOM	6251	HG21	THR	390	104.865	16.076	16.901	1.00 0.00	H
ATOM	6252	HG22	THR	390	105.506	17.614	16.361	1.00 0.00	H
ATOM	6253	HG23	THR	390	103.808	17.231	16.103	1.00 0.00	H
ATOM	6254	N	MET	391	103.769	18.981	12.657	1.00256.61	N
ATOM	6255	CA	MET	391	102.650	19.696	12.065	1.00256.61	C
ATOM	6256	C	MET	391	102.689	19.354	10.564	1.00256.61	C
ATOM	6257	O	MET	391	103.781	19.205	10.004	1.00256.61	O
ATOM	6258	CB	MET	391	102.944	21.196	12.272	1.00256.61	C
ATOM	6259	CG	MET	391	102.598	21.668	13.696	1.00256.61	C
ATOM	6260	SD	MET	391	103.587	23.055	14.320	1.00256.61	S
ATOM	6261	CE	MET	391	103.185	24.396	13.170	1.00256.61	C
ATOM	6262	H	MET	391	104.683	19.292	12.343	1.00 0.00	H
ATOM	6263	HA	MET	391	101.695	19.404	12.507	1.00 0.00	H
ATOM	6264	HB2	MET	391	104.002	21.381	12.083	1.00 0.00	H

ATOM	6265	HB3 MET	391	102.405	21.804	11.547	1.00	0.00	H
ATOM	6266	HG2 MET	391	101.539	21.907	13.779	1.00	0.00	H
ATOM	6267	HG3 MET	391	102.769	20.852	14.399	1.00	0.00	H
ATOM	6268	HE1 MET	391	103.773	25.281	13.411	1.00	0.00	H
ATOM	6269	HE2 MET	391	103.402	24.117	12.140	1.00	0.00	H
ATOM	6270	HE3 MET	391	102.135	24.668	13.248	1.00	0.00	H
ATOM	6271	N SER	392	101.523	19.137	9.942	1.00	158.04	N
ATOM	6272	CA SER	392	101.323	18.536	8.619	1.00	158.04	C
ATOM	6273	C SER	392	102.217	19.137	7.513	1.00	158.04	C
ATOM	6274	O SER	392	103.103	18.447	6.993	1.00	158.04	O
ATOM	6275	CB SER	392	99.807	18.434	8.301	1.00	158.04	C
ATOM	6276	OG SER	392	99.250	19.494	7.546	1.00	158.04	O
ATOM	6277	H SER	392	100.674	19.353	10.467	1.00	0.00	H
ATOM	6278	HA SER	392	101.664	17.508	8.751	1.00	0.00	H
ATOM	6279	HB2 SER	392	99.619	17.503	7.770	1.00	0.00	H
ATOM	6280	HB3 SER	392	99.230	18.364	9.217	1.00	0.00	H
ATOM	6281	HG SER	392	99.495	20.328	7.996	1.00	0.00	H
ATOM	6282	N VAL	393	102.076	20.441	7.242	1.00	55.82	N
ATOM	6283	CA VAL	393	102.989	21.240	6.432	1.00	55.82	C
ATOM	6284	C VAL	393	104.183	21.592	7.337	1.00	55.82	C
ATOM	6285	O VAL	393	105.312	21.198	7.035	1.00	55.82	O
ATOM	6286	CB VAL	393	102.282	22.534	5.925	1.00	55.82	C
ATOM	6287	CG1 VAL	393	103.191	23.387	5.018	1.00	55.82	C
ATOM	6288	CG2 VAL	393	100.960	22.239	5.193	1.00	55.82	C
ATOM	6289	H VAL	393	101.365	20.961	7.779	1.00	0.00	H
ATOM	6290	HA VAL	393	103.338	20.655	5.579	1.00	0.00	H
ATOM	6291	HB VAL	393	102.023	23.156	6.783	1.00	0.00	H
ATOM	6292	HG11 VAL	393	102.674	24.284	4.674	1.00	0.00	H
ATOM	6293	HG12 VAL	393	104.086	23.726	5.541	1.00	0.00	H
ATOM	6294	HG13 VAL	393	103.513	22.832	4.136	1.00	0.00	H
ATOM	6295	HG21 VAL	393	100.507	23.158	4.820	1.00	0.00	H
ATOM	6296	HG22 VAL	393	101.116	21.574	4.345	1.00	0.00	H
ATOM	6297	HG23 VAL	393	100.231	21.784	5.864	1.00	0.00	H
ATOM	6298	N SER	394	103.906	22.223	8.482	1.00	188.28	N
ATOM	6299	CA SER	394	104.802	22.851	9.441	1.00	188.28	C
ATOM	6300	C SER	394	104.875	24.353	9.169	1.00	188.28	C
ATOM	6301	O SER	394	105.960	24.892	8.938	1.00	188.28	O
ATOM	6302	CB SER	394	106.129	22.099	9.693	1.00	188.28	C
ATOM	6303	OG SER	394	106.858	22.599	10.798	1.00	188.28	O
ATOM	6304	H SER	394	102.918	22.462	8.659	1.00	0.00	H
ATOM	6305	HA SER	394	104.255	22.790	10.378	1.00	0.00	H
ATOM	6306	HB2 SER	394	105.904	21.053	9.891	1.00	0.00	H
ATOM	6307	HB3 SER	394	106.778	22.152	8.818	1.00	0.00	H
ATOM	6308	HG SER	394	106.990	23.530	10.646	1.00	0.00	H
ATOM	6309	N THR	395	103.705	25.010	9.197	1.00	269.41	N
ATOM	6310	CA THR	395	103.527	26.463	9.196	1.00	269.41	C
ATOM	6311	C THR	395	104.416	27.174	10.238	1.00	269.41	C
ATOM	6312	O THR	395	104.809	26.582	11.247	1.00	269.41	O
ATOM	6313	CB THR	395	102.016	26.800	9.355	1.00	269.41	C
ATOM	6314	OG1 THR	395	101.753	28.183	9.182	1.00	269.41	O
ATOM	6315	CG2 THR	395	101.425	26.408	10.715	1.00	269.41	C
ATOM	6316	H THR	395	102.863	24.446	9.345	1.00	0.00	H
ATOM	6317	HA THR	395	103.849	26.804	8.210	1.00	0.00	H
ATOM	6318	HB THR	395	101.465	26.273	8.574	1.00	0.00	H
ATOM	6319	HG1 THR	395	102.017	28.653	9.973	1.00	0.00	H
ATOM	6320	HG21 THR	395	100.358	26.612	10.752	1.00	0.00	H

ATOM	6321	HG22	THR	395	101.562	25.346	10.893	1.00	0.00		H
ATOM	6322	HG23	THR	395	101.892	26.940	11.545	1.00	0.00		H
ATOM	6323	N	ASP	396	104.693	28.460	10.008	1.00231.32			N
ATOM	6324	CA	ASP	396	105.193	29.352	11.051	1.00231.32			C
ATOM	6325	C	ASP	396	104.013	29.930	11.851	1.00231.32			C
ATOM	6326	O	ASP	396	102.857	29.607	11.555	1.00231.32			O
ATOM	6327	CB	ASP	396	106.038	30.484	10.425	1.00231.32			C
ATOM	6328	CG	ASP	396	107.231	30.748	11.326	1.00231.32			C
ATOM	6329	OD1	ASP	396	106.995	31.255	12.437	1.00231.32			O
ATOM	6330	OD2	ASP	396	108.323	30.251	10.973	1.00231.32			O1-
ATOM	6331	H	ASP	396	104.237	28.895	9.219	1.00	0.00		H
ATOM	6332	HA	ASP	396	105.798	28.774	11.753	1.00	0.00		H
ATOM	6333	HB2	ASP	396	106.412	30.204	9.441	1.00	0.00		H
ATOM	6334	HB3	ASP	396	105.472	31.407	10.290	1.00	0.00		H
ATOM	6335	N	THR	397	104.343	30.753	12.853	1.00259.50			N
ATOM	6336	CA	THR	397	103.601	31.231	14.024	1.00259.50			C
ATOM	6337	C	THR	397	102.091	30.887	14.094	1.00259.50			C
ATOM	6338	O	THR	397	101.207	31.717	13.873	1.00259.50			O
ATOM	6339	CB	THR	397	104.066	32.673	14.368	1.00259.50			C
ATOM	6340	OG1	THR	397	103.621	33.065	15.652	1.00259.50			O
ATOM	6341	CG2	THR	397	103.634	33.740	13.349	1.00259.50			C
ATOM	6342	H	THR	397	105.343	31.002	12.859	1.00	0.00		H
ATOM	6343	HA	THR	397	104.028	30.632	14.830	1.00	0.00		H
ATOM	6344	HB	THR	397	105.158	32.673	14.408	1.00	0.00		H
ATOM	6345	HG1	THR	397	103.970	33.923	15.847	1.00	0.00		H
ATOM	6346	HG21	THR	397	104.060	34.714	13.589	1.00	0.00		H
ATOM	6347	HG22	THR	397	103.971	33.479	12.345	1.00	0.00		H
ATOM	6348	HG23	THR	397	102.550	33.855	13.313	1.00	0.00		H
ATOM	6349	N	SER	398	101.801	29.606	14.352	1.00245.92			N
ATOM	6350	CA	SER	398	100.489	28.994	14.479	1.00245.92			C
ATOM	6351	C	SER	398	100.679	27.532	14.889	1.00245.92			C
ATOM	6352	O	SER	398	101.660	26.905	14.495	1.00245.92			O
ATOM	6353	CB	SER	398	99.701	29.084	13.151	1.00245.92			C
ATOM	6354	OG	SER	398	99.020	30.324	13.106	1.00245.92			O
ATOM	6355	H	SER	398	102.572	28.953	14.415	1.00	0.00		H
ATOM	6356	HA	SER	398	99.948	29.498	15.282	1.00	0.00		H
ATOM	6357	HB2	SER	398	100.361	28.980	12.288	1.00	0.00		H
ATOM	6358	HB3	SER	398	98.962	28.284	13.073	1.00	0.00		H
ATOM	6359	HG	SER	398	99.711	30.987	13.245	1.00	0.00		H
ATOM	6360	N	ALA	399	99.721	26.978	15.640	1.00234.85			N
ATOM	6361	CA	ALA	399	99.599	25.543	15.858	1.00234.85			C
ATOM	6362	C	ALA	399	98.752	25.000	14.699	1.00234.85			C
ATOM	6363	O	ALA	399	97.607	25.429	14.524	1.00234.85			O
ATOM	6364	CB	ALA	399	98.838	25.305	17.174	1.00234.85			C
ATOM	6365	H	ALA	399	98.935	27.545	15.910	1.00	0.00		H
ATOM	6366	HA	ALA	399	100.577	25.058	15.899	1.00	0.00		H
ATOM	6367	HB1	ALA	399	98.697	24.238	17.351	1.00	0.00		H
ATOM	6368	HB2	ALA	399	99.395	25.703	18.022	1.00	0.00		H
ATOM	6369	HB3	ALA	399	97.852	25.771	17.174	1.00	0.00		H
ATOM	6370	N	GLU	400	99.334	24.090	13.913	1.00292.95			N
ATOM	6371	CA	GLU	400	98.698	23.382	12.804	1.00292.95			C
ATOM	6372	C	GLU	400	98.109	22.061	13.340	1.00292.95			C
ATOM	6373	O	GLU	400	98.233	21.727	14.519	1.00292.95			O
ATOM	6374	CB	GLU	400	99.791	23.029	11.762	1.00292.95			C
ATOM	6375	CG	GLU	400	99.358	23.192	10.293	1.00292.95			C
ATOM	6376	CD	GLU	400	100.417	22.661	9.338	1.00292.95			C

ATOM	6377	OE1	GLU	400	101.556	23.175	9.354	1.00292.95	O
ATOM	6378	OE2	GLU	400	100.111	21.694	8.609	1.00292.95	O1-
ATOM	6379	H	GLU	400	100.266	23.799	14.164	1.00 0.00	H
ATOM	6380	HA	GLU	400	97.910	23.994	12.363	1.00 0.00	H
ATOM	6381	HB2	GLU	400	100.664	23.657	11.911	1.00 0.00	H
ATOM	6382	HB3	GLU	400	100.157	22.012	11.907	1.00 0.00	H
ATOM	6383	HG2	GLU	400	98.422	22.669	10.103	1.00 0.00	H
ATOM	6384	HG3	GLU	400	99.185	24.243	10.063	1.00 0.00	H
ATOM	6385	N	ALA	401	97.491	21.286	12.444	1.00211.96	N
ATOM	6386	CA	ALA	401	97.167	19.880	12.664	1.00211.96	C
ATOM	6387	C	ALA	401	98.324	19.021	12.121	1.00211.96	C
ATOM	6388	O	ALA	401	99.221	19.536	11.451	1.00211.96	O
ATOM	6389	CB	ALA	401	95.909	19.554	11.837	1.00211.96	C
ATOM	6390	H	ALA	401	97.609	21.571	11.483	1.00 0.00	H
ATOM	6391	HA	ALA	401	97.004	19.660	13.721	1.00 0.00	H
ATOM	6392	HB1	ALA	401	95.608	18.514	11.970	1.00 0.00	H
ATOM	6393	HB2	ALA	401	95.069	20.178	12.142	1.00 0.00	H
ATOM	6394	HB3	ALA	401	96.078	19.711	10.770	1.00 0.00	H
ATOM	6395	N	LEU	402	98.269	17.711	12.369	1.00126.96	N
ATOM	6396	CA	LEU	402	99.010	16.691	11.642	1.00126.96	C
ATOM	6397	C	LEU	402	97.926	16.060	10.765	1.00126.96	C
ATOM	6398	O	LEU	402	96.954	15.503	11.333	1.00126.96	O
ATOM	6399	CB	LEU	402	99.613	15.684	12.653	1.00126.96	C
ATOM	6400	CG	LEU	402	100.521	14.560	12.088	1.00126.96	C
ATOM	6401	CD1	LEU	402	99.733	13.324	11.625	1.00126.96	C
ATOM	6402	CD2	LEU	402	101.510	15.040	11.012	1.00126.96	C
ATOM	6403	OXT	LEU	402	97.943	16.252	9.529	1.00126.96	O1-
ATOM	6404	H	LEU	402	97.448	17.341	12.822	1.00 0.00	H
ATOM	6405	HA	LEU	402	99.796	17.123	11.026	1.00 0.00	H
ATOM	6406	HB2	LEU	402	100.215	16.261	13.355	1.00 0.00	H
ATOM	6407	HB3	LEU	402	98.822	15.240	13.260	1.00 0.00	H
ATOM	6408	HG	LEU	402	101.127	14.221	12.931	1.00 0.00	H
ATOM	6409	HD11	LEU	402	100.406	12.515	11.340	1.00 0.00	H
ATOM	6410	HD12	LEU	402	99.089	12.949	12.421	1.00 0.00	H
ATOM	6411	HD13	LEU	402	99.100	13.541	10.767	1.00 0.00	H
ATOM	6412	HD21	LEU	402	102.223	14.254	10.760	1.00 0.00	H
ATOM	6413	HD22	LEU	402	101.002	15.329	10.094	1.00 0.00	H
ATOM	6414	HD23	LEU	402	102.084	15.900	11.357	1.00 0.00	H
CONNECT 2988 3098									
CONNECT 3098 2988									
ENDMDL									
END									

Best model with rimonabant docked. Rimonabant was docked into the best model and the obtained protein–ligand complex was further minimized using the OPLS2005 force field as implemented in the MacroModel program.⁵⁴ The final binding mode is shown in Figure 5 and here is its three-dimensional structure in pdb format.

REMARK 888

REMARK 888 WRITTEN BY MAESTRO (A PRODUCT OF SCHRODINGER, LLC)

TITLE CB1_rimonabant_Liu_best_complex

MODEL 1

ATOM	1	N	VAL	71	48.192	-6.019	-27.751	1.00112.67	N1+
ATOM	2	CA	VAL	71	48.206	-4.624	-28.196	1.00112.67	C
ATOM	3	C	VAL	71	47.371	-4.412	-29.485	1.00112.67	C
ATOM	4	O	VAL	71	46.510	-3.540	-29.453	1.00112.67	O
ATOM	5	CB	VAL	71	49.635	-3.986	-28.135	1.00112.67	C
ATOM	6	CG1	VAL	71	50.813	-4.984	-28.211	1.00112.67	C
ATOM	7	CG2	VAL	71	49.873	-2.808	-29.103	1.00112.67	C
ATOM	8	H1	VAL	71	47.339	-6.483	-28.067	1.00 0.00	H
ATOM	9	H2	VAL	71	48.983	-6.535	-28.082	1.00 0.00	H
ATOM	10	H3	VAL	71	48.145	-6.127	-26.717	1.00 0.00	H
ATOM	11	HA	VAL	71	47.618	-4.117	-27.430	1.00 0.00	H
ATOM	12	HB	VAL	71	49.712	-3.556	-27.135	1.00 0.00	H
ATOM	13	1HG1	VAL	71	51.763	-4.454	-28.114	1.00 0.00	H
ATOM	14	2HG1	VAL	71	50.795	-5.707	-27.394	1.00 0.00	H
ATOM	15	3HG1	VAL	71	50.852	-5.527	-29.153	1.00 0.00	H
ATOM	16	1HG2	VAL	71	50.826	-2.319	-28.895	1.00 0.00	H
ATOM	17	2HG2	VAL	71	49.895	-3.126	-30.145	1.00 0.00	H
ATOM	18	3HG2	VAL	71	49.104	-2.041	-29.006	1.00 0.00	H
ATOM	19	N	PRO	72	47.535	-5.176	-30.596	1.00233.47	N
ATOM	20	CA	PRO	72	46.586	-5.119	-31.727	1.00233.47	C
ATOM	21	C	PRO	72	45.276	-5.854	-31.375	1.00233.47	C
ATOM	22	O	PRO	72	44.206	-5.258	-31.367	1.00233.47	O
ATOM	23	CD	PRO	72	48.653	-6.077	-30.898	1.00233.47	C
ATOM	24	CB	PRO	72	47.330	-5.775	-32.901	1.00233.47	C
ATOM	25	CG	PRO	72	48.345	-6.712	-32.258	1.00233.47	C
ATOM	26	HA	PRO	72	46.341	-4.085	-31.980	1.00 0.00	H
ATOM	27	HD3	PRO	72	49.564	-5.483	-30.980	1.00 0.00	H
ATOM	28	2HD	PRO	72	48.806	-6.851	-30.147	1.00 0.00	H
ATOM	29	2HB	PRO	72	46.668	-6.286	-33.603	1.00 0.00	H
ATOM	30	HB3	PRO	72	47.854	-5.002	-33.465	1.00 0.00	H
ATOM	31	HG3	PRO	72	49.238	-6.843	-32.872	1.00 0.00	H
ATOM	32	2HG	PRO	72	47.902	-7.699	-32.121	1.00 0.00	H
ATOM	33	N	ALA	73	45.388	-7.131	-30.994	1.00231.80	N
ATOM	34	CA	ALA	73	44.469	-7.801	-30.082	1.00231.80	C
ATOM	35	C	ALA	73	45.132	-7.699	-28.698	1.00231.80	C
ATOM	36	O	ALA	73	46.365	-7.679	-28.629	1.00231.80	O
ATOM	37	CB	ALA	73	44.388	-9.288	-30.464	1.00231.80	C
ATOM	38	H	ALA	73	46.315	-7.520	-31.025	1.00 0.00	H
ATOM	39	HA	ALA	73	43.479	-7.339	-30.084	1.00 0.00	H
ATOM	40	1HB	ALA	73	43.721	-9.829	-29.792	1.00 0.00	H
ATOM	41	2HB	ALA	73	43.995	-9.407	-31.474	1.00 0.00	H
ATOM	42	3HB	ALA	73	45.363	-9.777	-30.427	1.00 0.00	H
ATOM	43	N	ASP	74	44.336	-7.596	-27.629	1.00321.27	N
ATOM	44	CA	ASP	74	44.692	-7.297	-26.228	1.00321.27	C
ATOM	45	C	ASP	74	44.677	-5.774	-26.003	1.00321.27	C
ATOM	46	O	ASP	74	45.216	-5.028	-26.822	1.00321.27	O

ATOM	47	CB	ASP	74	45.910	-8.085	-25.632	1.00321.27	C	
ATOM	48	CG	ASP	74	46.894	-7.253	-24.805	1.00321.27	C	
ATOM	49	OD1	ASP	74	46.625	-7.055	-23.607	1.00321.27	O	
ATOM	50	OD2	ASP	74	47.896	-6.745	-25.360	1.00321.27	O1-	
ATOM	51	H	ASP	74	43.347	-7.562	-27.824	1.00	0.00	H
ATOM	52	HA	ASP	74	43.828	-7.664	-25.670	1.00	0.00	H
ATOM	53	2HB	ASP	74	45.531	-8.869	-24.976	1.00	0.00	H
ATOM	54	HB3	ASP	74	46.482	-8.619	-26.385	1.00	0.00	H
ATOM	55	N	GLN	75	44.096	-5.338	-24.881	1.00216.68	N	
ATOM	56	CA	GLN	75	44.018	-3.955	-24.425	1.00216.68	C	
ATOM	57	C	GLN	75	45.420	-3.506	-23.987	1.00216.68	C	
ATOM	58	O	GLN	75	45.939	-4.011	-22.996	1.00216.68	O	
ATOM	59	CB	GLN	75	43.053	-3.922	-23.221	1.00216.68	C	
ATOM	60	CG	GLN	75	41.569	-4.033	-23.631	1.00216.68	C	
ATOM	61	CD	GLN	75	40.721	-4.675	-22.537	1.00216.68	C	
ATOM	62	OE1	GLN	75	40.969	-5.816	-22.163	1.00216.68	O	
ATOM	63	NE2	GLN	75	39.730	-3.960	-22.024	1.00216.68	N	
ATOM	64	H	GLN	75	43.815	-6.033	-24.203	1.00	0.00	H
ATOM	65	HA	GLN	75	43.650	-3.313	-25.227	1.00	0.00	H
ATOM	66	2HB	GLN	75	43.324	-4.719	-22.523	1.00	0.00	H
ATOM	67	HB3	GLN	75	43.183	-3.005	-22.646	1.00	0.00	H
ATOM	68	2HG	GLN	75	41.172	-3.059	-23.917	1.00	0.00	H
ATOM	69	HG3	GLN	75	41.465	-4.670	-24.510	1.00	0.00	H
ATOM	70	2HE2	GLN	75	39.183	-4.330	-21.256	1.00	0.00	H
ATOM	71	1HE2	GLN	75	39.592	-2.990	-22.304	1.00	0.00	H
ATOM	72	N	VAL	76	46.035	-2.603	-24.764	1.00166.55	N	
ATOM	73	CA	VAL	76	47.447	-2.202	-24.761	1.00166.55	C	
ATOM	74	C	VAL	76	48.091	-2.094	-23.364	1.00166.55	C	
ATOM	75	O	VAL	76	49.031	-2.828	-23.061	1.00166.55	O	
ATOM	76	CB	VAL	76	47.650	-0.935	-25.640	1.00166.55	C	
ATOM	77	CG1	VAL	76	49.137	-0.599	-25.868	1.00166.55	C	
ATOM	78	CG2	VAL	76	46.929	-1.009	-27.000	1.00166.55	C	
ATOM	79	H	VAL	76	45.492	-2.260	-25.544	1.00	0.00	H
ATOM	80	HA	VAL	76	47.966	-3.023	-25.257	1.00	0.00	H
ATOM	81	HB	VAL	76	47.212	-0.087	-25.111	1.00	0.00	H
ATOM	82	1HG1	VAL	76	49.247	0.298	-26.479	1.00	0.00	H
ATOM	83	2HG1	VAL	76	49.669	-0.403	-24.937	1.00	0.00	H
ATOM	84	3HG1	VAL	76	49.664	-1.403	-26.379	1.00	0.00	H
ATOM	85	1HG2	VAL	76	47.089	-0.094	-27.573	1.00	0.00	H
ATOM	86	2HG2	VAL	76	47.292	-1.836	-27.602	1.00	0.00	H
ATOM	87	3HG2	VAL	76	45.851	-1.123	-26.900	1.00	0.00	H
ATOM	88	N	ASN	77	47.538	-1.195	-22.542	1.00225.49	N	
ATOM	89	CA	ASN	77	47.974	-0.735	-21.212	1.00225.49	C	
ATOM	90	C	ASN	77	48.869	0.510	-21.271	1.00225.49	C	
ATOM	91	O	ASN	77	49.309	1.001	-20.236	1.00225.49	O	
ATOM	92	CB	ASN	77	48.462	-1.813	-20.208	1.00225.49	C	
ATOM	93	CG	ASN	77	47.418	-2.867	-19.850	1.00225.49	C	
ATOM	94	OD1	ASN	77	47.622	-4.053	-20.100	1.00225.49	O	
ATOM	95	ND2	ASN	77	46.312	-2.482	-19.224	1.00225.49	N	
ATOM	96	H	ASN	77	46.722	-0.735	-22.914	1.00	0.00	H
ATOM	97	HA	ASN	77	47.058	-0.334	-20.775	1.00	0.00	H
ATOM	98	2HB	ASN	77	49.364	-2.299	-20.576	1.00	0.00	H
ATOM	99	HB3	ASN	77	48.764	-1.337	-19.273	1.00	0.00	H
ATOM	100	2HD2	ASN	77	45.637	-3.185	-18.969	1.00	0.00	H
ATOM	101	1HD2	ASN	77	46.112	-1.507	-18.981	1.00	0.00	H
ATOM	102	N	ILE	78	49.098	1.051	-22.472	1.00	75.97	N

ATOM	103	CA	ILE	78	49.730	2.334	-22.748	1.00	75.97	C
ATOM	104	C	ILE	78	48.890	2.982	-23.857	1.00	75.97	C
ATOM	105	O	ILE	78	48.469	2.282	-24.780	1.00	75.97	O
ATOM	106	CB	ILE	78	51.241	2.174	-23.101	1.00	75.97	C
ATOM	107	CG2	ILE	78	51.897	3.533	-23.443	1.00	75.97	C
ATOM	108	CG1	ILE	78	52.028	1.461	-21.976	1.00	75.97	C
ATOM	109	CD1	ILE	78	53.505	1.197	-22.288	1.00	75.97	C
ATOM	110	H	ILE	78	48.673	0.625	-23.282	1.00	0.00	H
ATOM	111	HA	ILE	78	49.645	2.952	-21.856	1.00	0.00	H
ATOM	112	HB	ILE	78	51.305	1.551	-23.995	1.00	0.00	H
ATOM	113	1HG2	ILE	78	52.936	3.420	-23.749	1.00	0.00	H
ATOM	114	2HG2	ILE	78	51.400	4.033	-24.274	1.00	0.00	H
ATOM	115	3HG2	ILE	78	51.871	4.211	-22.589	1.00	0.00	H
ATOM	116	2HG1	ILE	78	51.941	2.034	-21.054	1.00	0.00	H
ATOM	117	HG13	ILE	78	51.583	0.488	-21.769	1.00	0.00	H
ATOM	118	1HD1	ILE	78	53.953	0.591	-21.502	1.00	0.00	H
ATOM	119	2HD1	ILE	78	53.623	0.652	-23.223	1.00	0.00	H
ATOM	120	3HD1	ILE	78	54.088	2.115	-22.345	1.00	0.00	H
ATOM	121	N	THR	79	48.656	4.294	-23.777	1.00	43.10	N
ATOM	122	CA	THR	79	47.996	5.101	-24.799	1.00	43.10	C
ATOM	123	C	THR	79	48.734	6.448	-24.897	1.00	43.10	C
ATOM	124	O	THR	79	49.296	6.930	-23.910	1.00	43.10	O
ATOM	125	CB	THR	79	46.477	5.255	-24.503	1.00	43.10	C
ATOM	126	OG1	THR	79	45.908	4.046	-24.042	1.00	43.10	O
ATOM	127	CG2	THR	79	45.662	5.654	-25.743	1.00	43.10	C
ATOM	128	H	THR	79	49.027	4.810	-22.980	1.00	0.00	H
ATOM	129	HA	THR	79	48.115	4.596	-25.760	1.00	0.00	H
ATOM	130	HB	THR	79	46.329	6.000	-23.721	1.00	0.00	H
ATOM	131	HG1	THR	79	46.328	3.825	-23.210	1.00	0.00	H
ATOM	132	1HG2	THR	79	44.596	5.685	-25.516	1.00	0.00	H
ATOM	133	2HG2	THR	79	45.938	6.643	-26.110	1.00	0.00	H
ATOM	134	3HG2	THR	79	45.799	4.943	-26.558	1.00	0.00	H
ATOM	135	N	GLU	80	48.698	7.070	-26.076	1.00	74.24	N
ATOM	136	CA	GLU	80	49.075	8.450	-26.331	1.00	74.24	C
ATOM	137	C	GLU	80	48.057	9.000	-27.341	1.00	74.24	C
ATOM	138	O	GLU	80	47.486	8.240	-28.127	1.00	74.24	O
ATOM	139	CB	GLU	80	50.589	8.582	-26.648	1.00	74.24	C
ATOM	140	CG	GLU	80	51.114	9.957	-27.129	1.00	74.24	C
ATOM	141	CD	GLU	80	50.895	11.082	-26.127	1.00	74.24	C
ATOM	142	OE1	GLU	80	51.872	11.678	-25.621	1.00	74.24	O
ATOM	143	OE2	GLU	80	49.722	11.401	-25.852	1.00	74.24	O1-
ATOM	144	H	GLU	80	48.157	6.669	-26.832	1.00	0.00	H
ATOM	145	HA	GLU	80	48.890	9.003	-25.407	1.00	0.00	H
ATOM	146	2HB	GLU	80	51.157	8.292	-25.763	1.00	0.00	H
ATOM	147	HB3	GLU	80	50.845	7.849	-27.414	1.00	0.00	H
ATOM	148	2HG	GLU	80	52.182	9.886	-27.336	1.00	0.00	H
ATOM	149	HG3	GLU	80	50.640	10.241	-28.069	1.00	0.00	H
ATOM	150	N	PHE	81	47.787	10.297	-27.245	1.00	125.88	N
ATOM	151	CA	PHE	81	46.719	11.045	-27.886	1.00	125.88	C
ATOM	152	C	PHE	81	47.348	12.332	-28.455	1.00	125.88	C
ATOM	153	O	PHE	81	48.479	12.325	-28.944	1.00	125.88	O
ATOM	154	CB	PHE	81	45.591	11.323	-26.856	1.00	125.88	C
ATOM	155	CG	PHE	81	45.057	10.169	-26.017	1.00	125.88	C
ATOM	156	CD1	PHE	81	43.830	9.559	-26.351	1.00	125.88	C
ATOM	157	CD2	PHE	81	45.740	9.758	-24.850	1.00	125.88	C
ATOM	158	CE1	PHE	81	43.282	8.564	-25.518	1.00	125.88	C

ATOM	159	CE2 PHE	81	45.189	8.771	-24.014	1.00125.88	C
ATOM	160	CZ PHE	81	43.958	8.176	-24.346	1.00125.88	C
ATOM	161	H PHE	81	48.454	10.831	-26.667	1.00 0.00	H
ATOM	162	HA PHE	81	46.314	10.469	-28.720	1.00 0.00	H
ATOM	163	2HB PHE	81	45.917	12.092	-26.157	1.00 0.00	H
ATOM	164	HB3 PHE	81	44.744	11.760	-27.386	1.00 0.00	H
ATOM	165	HD1 PHE	81	43.282	9.874	-27.228	1.00 0.00	H
ATOM	166	HD2 PHE	81	46.688	10.202	-24.583	1.00 0.00	H
ATOM	167	HE1 PHE	81	42.332	8.114	-25.766	1.00 0.00	H
ATOM	168	HE2 PHE	81	45.703	8.480	-23.111	1.00 0.00	H
ATOM	169	HZ PHE	81	43.525	7.428	-23.696	1.00 0.00	H
ATOM	170	N TYR	82	46.661	13.478	-28.339	1.00284.13	N
ATOM	171	CA TYR	82	47.148	14.824	-28.665	1.00284.13	C
ATOM	172	C TYR	82	48.098	15.335	-27.553	1.00284.13	C
ATOM	173	O TYR	82	47.831	16.345	-26.895	1.00284.13	O
ATOM	174	CB TYR	82	45.918	15.753	-28.798	1.00284.13	C
ATOM	175	CG TYR	82	44.947	15.344	-29.894	1.00284.13	C
ATOM	176	CD1 TYR	82	43.734	14.697	-29.573	1.00284.13	C
ATOM	177	CD2 TYR	82	45.264	15.599	-31.245	1.00284.13	C
ATOM	178	CE1 TYR	82	42.848	14.308	-30.596	1.00284.13	C
ATOM	179	CE2 TYR	82	44.378	15.209	-32.267	1.00284.13	C
ATOM	180	CZ TYR	82	43.169	14.563	-31.943	1.00284.13	C
ATOM	181	OH TYR	82	42.307	14.180	-32.927	1.00284.13	O
ATOM	182	H TYR	82	45.723	13.414	-27.975	1.00 0.00	H
ATOM	183	HA TYR	82	47.695	14.802	-29.609	1.00 0.00	H
ATOM	184	2HB TYR	82	45.379	15.813	-27.851	1.00 0.00	H
ATOM	185	HB3 TYR	82	46.248	16.770	-29.013	1.00 0.00	H
ATOM	186	HD1 TYR	82	43.466	14.488	-28.547	1.00 0.00	H
ATOM	187	HD2 TYR	82	46.190	16.092	-31.504	1.00 0.00	H
ATOM	188	HE1 TYR	82	41.922	13.812	-30.345	1.00 0.00	H
ATOM	189	HE2 TYR	82	44.637	15.410	-33.296	1.00 0.00	H
ATOM	190	HH TYR	82	42.627	14.349	-33.798	1.00 0.00	H
ATOM	191	N ASN	83	49.158	14.561	-27.292	1.00250.74	N
ATOM	192	CA ASN	83	50.139	14.637	-26.207	1.00250.74	C
ATOM	193	C ASN	83	49.480	14.653	-24.825	1.00250.74	C
ATOM	194	O ASN	83	49.301	15.703	-24.205	1.00250.74	O
ATOM	195	CB ASN	83	51.250	15.698	-26.394	1.00250.74	C
ATOM	196	CG ASN	83	52.500	15.172	-27.122	1.00250.74	C
ATOM	197	OD1 ASN	83	53.109	15.900	-27.903	1.00250.74	O
ATOM	198	ND2 ASN	83	52.983	13.958	-26.847	1.00250.74	N
ATOM	199	H ASN	83	49.208	13.711	-27.853	1.00 0.00	H
ATOM	200	HA ASN	83	50.614	13.675	-26.254	1.00 0.00	H
ATOM	201	2HB ASN	83	50.858	16.574	-26.912	1.00 0.00	H
ATOM	202	HB3 ASN	83	51.598	16.060	-25.425	1.00 0.00	H
ATOM	203	2HD2 ASN	83	53.812	13.633	-27.314	1.00 0.00	H
ATOM	204	1HD2 ASN	83	52.490	13.263	-26.263	1.00 0.00	H
ATOM	205	N LYS	84	49.048	13.465	-24.404	1.00145.88	N
ATOM	206	CA LYS	84	48.321	13.126	-23.193	1.00145.88	C
ATOM	207	C LYS	84	48.802	11.759	-22.660	1.00145.88	C
ATOM	208	O LYS	84	47.995	11.049	-22.068	1.00145.88	O
ATOM	209	CB LYS	84	46.787	13.174	-23.424	1.00145.88	C
ATOM	210	CG LYS	84	46.205	14.423	-24.104	1.00145.88	C
ATOM	211	CD LYS	84	46.114	15.634	-23.170	1.00145.88	C
ATOM	212	CE LYS	84	45.728	16.925	-23.906	1.00145.88	C
ATOM	213	NZ LYS	84	46.893	17.529	-24.573	1.00145.88	N1+
ATOM	214	H LYS	84	49.288	12.653	-25.005	1.00 0.00	H

ATOM	215	HA	LYS	84	48.577	13.858	-22.425	1.00	0.00	H
ATOM	216	2HB	LYS	84	46.510	12.313	-24.025	1.00	0.00	H
ATOM	217	HB3	LYS	84	46.271	13.031	-22.476	1.00	0.00	H
ATOM	218	2HG	LYS	84	46.744	14.657	-25.017	1.00	0.00	H
ATOM	219	HG3	LYS	84	45.195	14.182	-24.430	1.00	0.00	H
ATOM	220	2HD	LYS	84	45.343	15.406	-22.435	1.00	0.00	H
ATOM	221	HD3	LYS	84	47.037	15.780	-22.607	1.00	0.00	H
ATOM	222	2HE	LYS	84	44.943	16.733	-24.639	1.00	0.00	H
ATOM	223	HE3	LYS	84	45.322	17.649	-23.199	1.00	0.00	H
ATOM	224	1HZ	LYS	84	47.308	16.904	-25.261	1.00	0.00	H
ATOM	225	2HZ	LYS	84	46.617	18.382	-25.028	1.00	0.00	H
ATOM	226	3HZ	LYS	84	47.611	17.747	-23.876	1.00	0.00	H
ATOM	227	N	SER	85	50.076	11.388	-22.887	1.00	110.17	N
ATOM	228	CA	SER	85	50.762	10.136	-22.530	1.00	110.17	C
ATOM	229	C	SER	85	50.251	9.419	-21.260	1.00	110.17	C
ATOM	230	O	SER	85	50.368	9.953	-20.153	1.00	110.17	O
ATOM	231	CB	SER	85	52.292	10.366	-22.522	1.00	110.17	C
ATOM	232	OG	SER	85	52.885	10.082	-23.776	1.00	110.17	O
ATOM	233	H	SER	85	50.584	11.962	-23.549	1.00	0.00	H
ATOM	234	HA	SER	85	50.543	9.456	-23.356	1.00	0.00	H
ATOM	235	2HB	SER	85	52.542	11.383	-22.218	1.00	0.00	H
ATOM	236	HB3	SER	85	52.770	9.709	-21.794	1.00	0.00	H
ATOM	237	HG	SER	85	52.542	10.702	-24.440	1.00	0.00	H
ATOM	238	N	LEU	86	49.652	8.235	-21.431	1.00	123.66	N
ATOM	239	CA	LEU	86	48.868	7.521	-20.436	1.00	123.66	C
ATOM	240	C	LEU	86	49.408	6.095	-20.284	1.00	123.66	C
ATOM	241	O	LEU	86	49.407	5.325	-21.241	1.00	123.66	O
ATOM	242	CB	LEU	86	47.385	7.558	-20.890	1.00	123.66	C
ATOM	243	CG	LEU	86	46.382	6.712	-20.075	1.00	123.66	C
ATOM	244	CD1	LEU	86	46.354	7.090	-18.589	1.00	123.66	C
ATOM	245	CD2	LEU	86	44.969	6.791	-20.672	1.00	123.66	C
ATOM	246	H	LEU	86	49.627	7.838	-22.371	1.00	0.00	H
ATOM	247	HA	LEU	86	48.947	8.022	-19.471	1.00	0.00	H
ATOM	248	2HB	LEU	86	47.046	8.594	-20.911	1.00	0.00	H
ATOM	249	HB3	LEU	86	47.339	7.220	-21.926	1.00	0.00	H
ATOM	250	HG	LEU	86	46.682	5.671	-20.150	1.00	0.00	H
ATOM	251	1HD1	LEU	86	45.703	6.423	-18.033	1.00	0.00	H
ATOM	252	2HD1	LEU	86	47.334	7.037	-18.120	1.00	0.00	H
ATOM	253	3HD1	LEU	86	45.965	8.096	-18.449	1.00	0.00	H
ATOM	254	1HD2	LEU	86	44.269	6.163	-20.120	1.00	0.00	H
ATOM	255	2HD2	LEU	86	44.581	7.810	-20.653	1.00	0.00	H
ATOM	256	3HD2	LEU	86	44.954	6.451	-21.708	1.00	0.00	H
ATOM	257	N	SER	87	49.789	5.704	-19.063	1.00	105.76	N
ATOM	258	CA	SER	87	50.184	4.346	-18.674	1.00	105.76	C
ATOM	259	C	SER	87	48.929	3.505	-18.332	1.00	105.76	C
ATOM	260	O	SER	87	48.839	2.889	-17.266	1.00	105.76	O
ATOM	261	CB	SER	87	51.073	4.475	-17.416	1.00	105.76	C
ATOM	262	OG	SER	87	52.142	5.380	-17.641	1.00	105.76	O
ATOM	263	H	SER	87	49.858	6.405	-18.341	1.00	0.00	H
ATOM	264	HA	SER	87	50.733	3.854	-19.480	1.00	0.00	H
ATOM	265	2HB	SER	87	50.496	4.835	-16.561	1.00	0.00	H
ATOM	266	HB3	SER	87	51.476	3.501	-17.134	1.00	0.00	H
ATOM	267	HG	SER	87	52.675	5.061	-18.357	1.00	0.00	H
ATOM	268	N	SER	88	47.932	3.523	-19.220	1.00	86.42	N
ATOM	269	CA	SER	88	46.684	2.780	-19.143	1.00	86.42	C
ATOM	270	C	SER	88	46.079	2.716	-20.557	1.00	86.42	C

ATOM	271	O	SER	88	46.620	3.309	-21.494	1.00	86.42	O
ATOM	272	CB	SER	88	45.760	3.423	-18.083	1.00	86.42	C
ATOM	273	OG	SER	88	44.738	2.560	-17.628	1.00	86.42	O
ATOM	274	H	SER	88	48.096	3.983	-20.110	1.00	0.00	H
ATOM	275	HA	SER	88	46.942	1.763	-18.842	1.00	0.00	H
ATOM	276	2HB	SER	88	46.327	3.755	-17.214	1.00	0.00	H
ATOM	277	HB3	SER	88	45.281	4.309	-18.498	1.00	0.00	H
ATOM	278	HG	SER	88	44.928	1.654	-17.936	1.00	0.00	H
ATOM	279	N	PHE	89	44.965	2.003	-20.716	1.00	105.62	N
ATOM	280	CA	PHE	89	44.159	1.884	-21.928	1.00	105.62	C
ATOM	281	C	PHE	89	42.675	1.823	-21.523	1.00	105.62	C
ATOM	282	O	PHE	89	42.341	1.963	-20.344	1.00	105.62	O
ATOM	283	CB	PHE	89	44.703	0.692	-22.757	1.00	105.62	C
ATOM	284	CG	PHE	89	44.106	0.455	-24.137	1.00	105.62	C
ATOM	285	CD1	PHE	89	44.585	1.174	-25.251	1.00	105.62	C
ATOM	286	CD2	PHE	89	43.065	-0.481	-24.314	1.00	105.62	C
ATOM	287	CE1	PHE	89	44.015	0.976	-26.523	1.00	105.62	C
ATOM	288	CE2	PHE	89	42.495	-0.681	-25.585	1.00	105.62	C
ATOM	289	CZ	PHE	89	42.970	0.048	-26.691	1.00	105.62	C
ATOM	290	H	PHE	89	44.581	1.536	-19.896	1.00	0.00	H
ATOM	291	HA	PHE	89	44.262	2.798	-22.512	1.00	0.00	H
ATOM	292	2HB	PHE	89	45.770	0.854	-22.910	1.00	0.00	H
ATOM	293	HB3	PHE	89	44.614	-0.226	-22.174	1.00	0.00	H
ATOM	294	HD1	PHE	89	45.388	1.889	-25.142	1.00	0.00	H
ATOM	295	HD2	PHE	89	42.665	-1.020	-23.468	1.00	0.00	H
ATOM	296	HE1	PHE	89	44.378	1.544	-27.367	1.00	0.00	H
ATOM	297	HE2	PHE	89	41.676	-1.376	-25.708	1.00	0.00	H
ATOM	298	HZ	PHE	89	42.525	-0.094	-27.666	1.00	0.00	H
ATOM	299	N	LYS	90	41.781	1.583	-22.488	1.00	194.77	N
ATOM	300	CA	LYS	90	40.370	1.256	-22.289	1.00	194.77	C
ATOM	301	C	LYS	90	40.266	-0.177	-21.718	1.00	194.77	C
ATOM	302	O	LYS	90	40.081	-1.146	-22.455	1.00	194.77	O
ATOM	303	CB	LYS	90	39.642	1.364	-23.648	1.00	194.77	C
ATOM	304	CG	LYS	90	39.503	2.806	-24.180	1.00	194.77	C
ATOM	305	CD	LYS	90	38.402	3.609	-23.469	1.00	194.77	C
ATOM	306	CE	LYS	90	38.176	5.001	-24.085	1.00	194.77	C
ATOM	307	NZ	LYS	90	37.003	5.662	-23.508	1.00	194.77	N1+
ATOM	308	H	LYS	90	42.134	1.470	-23.428	1.00	0.00	H
ATOM	309	HA	LYS	90	39.935	1.963	-21.588	1.00	0.00	H
ATOM	310	2HB	LYS	90	40.163	0.759	-24.391	1.00	0.00	H
ATOM	311	HB3	LYS	90	38.644	0.925	-23.570	1.00	0.00	H
ATOM	312	2HG	LYS	90	40.455	3.335	-24.123	1.00	0.00	H
ATOM	313	HG3	LYS	90	39.249	2.752	-25.239	1.00	0.00	H
ATOM	314	2HD	LYS	90	37.473	3.040	-23.516	1.00	0.00	H
ATOM	315	HD3	LYS	90	38.636	3.719	-22.410	1.00	0.00	H
ATOM	316	2HE	LYS	90	39.048	5.635	-23.925	1.00	0.00	H
ATOM	317	HE3	LYS	90	38.015	4.928	-25.162	1.00	0.00	H
ATOM	318	1HZ	LYS	90	36.194	5.581	-24.157	1.00	0.00	H
ATOM	319	2HZ	LYS	90	36.715	5.208	-22.651	1.00	0.00	H
ATOM	320	3HZ	LYS	90	37.167	6.666	-23.308	1.00	0.00	H
ATOM	321	N	GLU	91	40.511	-0.307	-20.410	1.00	108.17	N
ATOM	322	CA	GLU	91	40.667	-1.569	-19.690	1.00	108.17	C
ATOM	323	C	GLU	91	39.342	-2.075	-19.093	1.00	108.17	C
ATOM	324	O	GLU	91	39.201	-3.285	-18.926	1.00	108.17	O
ATOM	325	CB	GLU	91	41.654	-1.321	-18.531	1.00	108.17	C
ATOM	326	CG	GLU	91	43.112	-1.206	-19.026	1.00	108.17	C

ATOM	327	CD	GLU	91	44.036	-0.495	-18.050	1.00108.17	C
ATOM	328	OE1	GLU	91	43.750	-0.464	-16.836	1.00108.17	O
ATOM	329	OE2	GLU	91	45.049	0.074	-18.519	1.00108.17	O1-
ATOM	330	H	GLU	91	40.759	0.541	-19.915	1.00 0.00	H
ATOM	331	HA	GLU	91	41.069	-2.344	-20.344	1.00 0.00	H
ATOM	332	2HB	GLU	91	41.359	-0.427	-17.977	1.00 0.00	H
ATOM	333	HB3	GLU	91	41.607	-2.140	-17.810	1.00 0.00	H
ATOM	334	2HG	GLU	91	43.506	-2.199	-19.237	1.00 0.00	H
ATOM	335	HG3	GLU	91	43.149	-0.658	-19.966	1.00 0.00	H
ATOM	336	N	ASN	92	38.394	-1.179	-18.782	1.00156.52	N
ATOM	337	CA	ASN	92	37.096	-1.522	-18.189	1.00156.52	C
ATOM	338	C	ASN	92	36.047	-1.633	-19.309	1.00156.52	C
ATOM	339	O	ASN	92	36.108	-2.571	-20.103	1.00156.52	O
ATOM	340	CB	ASN	92	36.661	-0.487	-17.113	1.00156.52	C
ATOM	341	CG	ASN	92	37.471	-0.506	-15.821	1.00156.52	C
ATOM	342	OD1	ASN	92	38.164	-1.464	-15.497	1.00156.52	O
ATOM	343	ND2	ASN	92	37.403	0.565	-15.044	1.00156.52	N
ATOM	344	H	ASN	92	38.554	-0.214	-19.025	1.00 0.00	H
ATOM	345	HA	ASN	92	37.142	-2.504	-17.714	1.00 0.00	H
ATOM	346	2HB	ASN	92	36.661	0.525	-17.521	1.00 0.00	H
ATOM	347	HB3	ASN	92	35.636	-0.694	-16.801	1.00 0.00	H
ATOM	348	2HD2	ASN	92	37.880	0.551	-14.164	1.00 0.00	H
ATOM	349	1HD2	ASN	92	36.831	1.375	-15.303	1.00 0.00	H
ATOM	350	N	GLU	93	35.070	-0.720	-19.359	1.00200.79	N
ATOM	351	CA	GLU	93	33.904	-0.735	-20.225	1.00200.79	C
ATOM	352	C	GLU	93	34.164	0.209	-21.405	1.00200.79	C
ATOM	353	O	GLU	93	34.349	-0.265	-22.524	1.00200.79	O
ATOM	354	CB	GLU	93	32.615	-0.301	-19.449	1.00200.79	C
ATOM	355	CG	GLU	93	32.716	-0.092	-17.914	1.00200.79	C
ATOM	356	CD	GLU	93	33.490	1.152	-17.474	1.00200.79	C
ATOM	357	OE1	GLU	93	34.280	1.676	-18.293	1.00200.79	O
ATOM	358	OE2	GLU	93	33.343	1.511	-16.289	1.00200.79	O1-
ATOM	359	H	GLU	93	35.094	0.099	-18.749	1.00 0.00	H
ATOM	360	HA	GLU	93	33.752	-1.741	-20.623	1.00 0.00	H
ATOM	361	2HB	GLU	93	32.161	0.595	-19.875	1.00 0.00	H
ATOM	362	HB3	GLU	93	31.865	-1.073	-19.622	1.00 0.00	H
ATOM	363	2HG	GLU	93	31.711	0.002	-17.505	1.00 0.00	H
ATOM	364	HG3	GLU	93	33.156	-0.965	-17.435	1.00 0.00	H
ATOM	365	N	GLU	94	34.170	1.527	-21.152	1.00122.93	N
ATOM	366	CA	GLU	94	34.424	2.565	-22.147	1.00122.93	C
ATOM	367	C	GLU	94	34.775	3.907	-21.483	1.00122.93	C
ATOM	368	O	GLU	94	35.957	4.248	-21.382	1.00122.93	O
ATOM	369	CB	GLU	94	33.335	2.595	-23.268	1.00122.93	C
ATOM	370	CG	GLU	94	33.291	3.802	-24.239	1.00122.93	C
ATOM	371	CD	GLU	94	34.636	4.190	-24.848	1.00122.93	C
ATOM	372	OE1	GLU	94	35.488	3.305	-25.051	1.00122.93	O
ATOM	373	OE2	GLU	94	34.902	5.406	-24.951	1.00122.93	O1-
ATOM	374	H	GLU	94	34.118	1.799	-20.164	1.00 0.00	H
ATOM	375	HA	GLU	94	35.347	2.264	-22.646	1.00 0.00	H
ATOM	376	2HB	GLU	94	33.451	1.703	-23.883	1.00 0.00	H
ATOM	377	HB3	GLU	94	32.353	2.507	-22.807	1.00 0.00	H
ATOM	378	2HG	GLU	94	32.607	3.590	-25.060	1.00 0.00	H
ATOM	379	HG3	GLU	94	32.881	4.670	-23.731	1.00 0.00	H
ATOM	380	N	ASN	95	33.767	4.707	-21.103	1.00139.41	N
ATOM	381	CA	ASN	95	33.938	6.135	-20.803	1.00139.41	C
ATOM	382	C	ASN	95	34.094	6.447	-19.312	1.00139.41	C

ATOM	383	O	ASN	95	33.420	5.850	-18.475	1.00139.41	O
ATOM	384	CB	ASN	95	32.730	6.979	-21.289	1.00139.41	C
ATOM	385	CG	ASN	95	32.785	7.329	-22.772	1.00139.41	C
ATOM	386	OD1	ASN	95	31.835	7.066	-23.504	1.00139.41	O
ATOM	387	ND2	ASN	95	33.860	7.966	-23.220	1.00139.41	N
ATOM	388	H	ASN	95	32.829	4.343	-21.158	1.00 0.00	H
ATOM	389	HA	ASN	95	34.841	6.456	-21.310	1.00 0.00	H
ATOM	390	2HB	ASN	95	31.792	6.471	-21.064	1.00 0.00	H
ATOM	391	HB3	ASN	95	32.681	7.937	-20.767	1.00 0.00	H
ATOM	392	2HD2	ASN	95	33.993	8.029	-24.216	1.00 0.00	H
ATOM	393	1HD2	ASN	95	34.630	8.231	-22.580	1.00 0.00	H
ATOM	394	N	ILE	96	34.936	7.451	-19.016	1.00139.04	N
ATOM	395	CA	ILE	96	35.190	8.224	-17.785	1.00139.04	C
ATOM	396	C	ILE	96	35.582	7.416	-16.528	1.00139.04	C
ATOM	397	O	ILE	96	36.464	7.829	-15.775	1.00139.04	O
ATOM	398	CB	ILE	96	34.072	9.270	-17.497	1.00139.04	C
ATOM	399	CG2	ILE	96	34.006	10.311	-18.632	1.00139.04	C
ATOM	400	CG1	ILE	96	32.674	8.681	-17.192	1.00139.04	C
ATOM	401	CD1	ILE	96	31.719	9.671	-16.511	1.00139.04	C
ATOM	402	H	ILE	96	35.338	7.883	-19.859	1.00 0.00	H
ATOM	403	HA	ILE	96	36.092	8.794	-18.013	1.00 0.00	H
ATOM	404	HB	ILE	96	34.391	9.808	-16.602	1.00 0.00	H
ATOM	405	1HG2	ILE	96	33.331	11.133	-18.395	1.00 0.00	H
ATOM	406	2HG2	ILE	96	34.988	10.746	-18.815	1.00 0.00	H
ATOM	407	3HG2	ILE	96	33.672	9.866	-19.570	1.00 0.00	H
ATOM	408	2HG1	ILE	96	32.214	8.309	-18.109	1.00 0.00	H
ATOM	409	HG13	ILE	96	32.768	7.815	-16.538	1.00 0.00	H
ATOM	410	1HD1	ILE	96	30.775	9.183	-16.265	1.00 0.00	H
ATOM	411	2HD1	ILE	96	32.143	10.055	-15.582	1.00 0.00	H
ATOM	412	3HD1	ILE	96	31.489	10.519	-17.155	1.00 0.00	H
ATOM	413	N	GLN	97	34.992	6.236	-16.329	1.00 60.02	N
ATOM	414	CA	GLN	97	35.267	5.230	-15.304	1.00 60.02	C
ATOM	415	C	GLN	97	36.460	4.343	-15.722	1.00 60.02	C
ATOM	416	O	GLN	97	36.594	3.204	-15.280	1.00 60.02	O
ATOM	417	CB	GLN	97	34.011	4.341	-15.191	1.00 60.02	C
ATOM	418	CG	GLN	97	32.782	5.053	-14.596	1.00 60.02	C
ATOM	419	CD	GLN	97	31.561	4.149	-14.401	1.00 60.02	C
ATOM	420	OE1	GLN	97	30.580	4.578	-13.800	1.00 60.02	O
ATOM	421	NE2	GLN	97	31.575	2.903	-14.861	1.00 60.02	N
ATOM	422	H	GLN	97	34.319	5.962	-17.052	1.00 0.00	H
ATOM	423	HA	GLN	97	35.492	5.694	-14.345	1.00 0.00	H
ATOM	424	2HB	GLN	97	33.764	3.959	-16.183	1.00 0.00	H
ATOM	425	HB3	GLN	97	34.225	3.468	-14.572	1.00 0.00	H
ATOM	426	2HG	GLN	97	33.036	5.488	-13.629	1.00 0.00	H
ATOM	427	HG3	GLN	97	32.479	5.878	-15.240	1.00 0.00	H
ATOM	428	2HE2	GLN	97	30.764	2.329	-14.732	1.00 0.00	H
ATOM	429	1HE2	GLN	97	32.372	2.501	-15.399	1.00 0.00	H
ATOM	430	N	CYS	98	37.324	4.856	-16.598	1.00179.95	N
ATOM	431	CA	CYS	98	38.277	4.109	-17.397	1.00179.95	C
ATOM	432	C	CYS	98	39.481	5.026	-17.686	1.00179.95	C
ATOM	433	O	CYS	98	39.806	5.893	-16.866	1.00179.95	O
ATOM	434	CB	CYS	98	37.503	3.563	-18.621	1.00179.95	C
ATOM	435	SG	CYS	98	38.321	2.140	-19.382	1.00179.95	S
ATOM	436	H	CYS	98	37.200	5.828	-16.839	1.00 0.00	H
ATOM	437	HA	CYS	98	38.650	3.271	-16.806	1.00 0.00	H
ATOM	438	2HB	CYS	98	36.500	3.231	-18.344	1.00 0.00	H

ATOM	439	HB3 CYS	98	37.372	4.353	-19.359	1.00	0.00		H
ATOM	440	HG CYS	98	37.334	1.921	-20.264	1.00	0.00		H
ATOM	441	N GLY	99	40.132	4.849	-18.841	1.00	54.55		N
ATOM	442	CA GLY	99	41.224	5.668	-19.348	1.00	54.55		C
ATOM	443	C GLY	99	40.759	6.367	-20.624	1.00	54.55		C
ATOM	444	O GLY	99	40.333	5.702	-21.567	1.00	54.55		O
ATOM	445	H GLY	99	39.783	4.145	-19.479	1.00	0.00		H
ATOM	446	2HA GLY	99	41.567	6.399	-18.618	1.00	0.00		H
ATOM	447	HA3 GLY	99	42.070	5.022	-19.585	1.00	0.00		H
ATOM	448	N GLU	100	40.815	7.700	-20.616	1.00	105.71		N
ATOM	449	CA GLU	100	40.322	8.616	-21.641	1.00	105.71		C
ATOM	450	C GLU	100	41.473	9.511	-22.131	1.00	105.71		C
ATOM	451	O GLU	100	42.630	9.319	-21.746	1.00	105.71		O
ATOM	452	CB GLU	100	39.216	9.487	-21.000	1.00	105.71		C
ATOM	453	CG GLU	100	37.974	8.719	-20.520	1.00	105.71		C
ATOM	454	CD GLU	100	36.991	8.455	-21.643	1.00	105.71		C
ATOM	455	OE1 GLU	100	37.430	8.064	-22.743	1.00	105.71		O
ATOM	456	OE2 GLU	100	35.781	8.592	-21.381	1.00	105.71		O1-
ATOM	457	H GLU	100	41.229	8.155	-19.815	1.00	0.00		H
ATOM	458	HA GLU	100	39.938	8.065	-22.502	1.00	0.00		H
ATOM	459	2HB GLU	100	39.623	10.058	-20.166	1.00	0.00		H
ATOM	460	HB3 GLU	100	38.875	10.234	-21.716	1.00	0.00		H
ATOM	461	2HG GLU	100	38.226	7.781	-20.028	1.00	0.00		H
ATOM	462	HG3 GLU	100	37.454	9.317	-19.778	1.00	0.00		H
ATOM	463	N ASN	101	41.145	10.531	-22.942	1.00	80.37		N
ATOM	464	CA ASN	101	42.030	11.620	-23.381	1.00	80.37		C
ATOM	465	C ASN	101	42.439	12.419	-22.125	1.00	80.37		C
ATOM	466	O ASN	101	41.673	13.226	-21.599	1.00	80.37		O
ATOM	467	CB ASN	101	41.284	12.507	-24.413	1.00	80.37		C
ATOM	468	CG ASN	101	42.197	13.087	-25.498	1.00	80.37		C
ATOM	469	OD1 ASN	101	42.411	12.474	-26.538	1.00	80.37		O
ATOM	470	ND2 ASN	101	42.731	14.286	-25.329	1.00	80.37		N
ATOM	471	H ASN	101	40.166	10.610	-23.175	1.00	0.00		H
ATOM	472	HA ASN	101	42.907	11.167	-23.848	1.00	0.00		H
ATOM	473	2HB ASN	101	40.540	11.908	-24.941	1.00	0.00		H
ATOM	474	HB3 ASN	101	40.718	13.311	-23.939	1.00	0.00		H
ATOM	475	2HD2 ASN	101	43.199	14.724	-26.097	1.00	0.00		H
ATOM	476	1HD2 ASN	101	42.630	14.836	-24.449	1.00	0.00		H
ATOM	477	N PHE	102	43.607	12.059	-21.582	1.00	126.61		N
ATOM	478	CA PHE	102	44.032	12.121	-20.178	1.00	126.61		C
ATOM	479	C PHE	102	44.276	13.544	-19.610	1.00	126.61		C
ATOM	480	O PHE	102	45.214	13.765	-18.839	1.00	126.61		O
ATOM	481	CB PHE	102	45.306	11.234	-20.114	1.00	126.61		C
ATOM	482	CG PHE	102	45.949	10.851	-18.787	1.00	126.61		C
ATOM	483	CD1 PHE	102	47.322	10.517	-18.776	1.00	126.61		C
ATOM	484	CD2 PHE	102	45.210	10.766	-17.589	1.00	126.61		C
ATOM	485	CE1 PHE	102	47.956	10.108	-17.590	1.00	126.61		C
ATOM	486	CE2 PHE	102	45.840	10.345	-16.403	1.00	126.61		C
ATOM	487	CZ PHE	102	47.210	10.017	-16.401	1.00	126.61		C
ATOM	488	H PHE	102	44.058	11.326	-22.112	1.00	0.00		H
ATOM	489	HA PHE	102	43.238	11.664	-19.586	1.00	0.00		H
ATOM	490	2HB PHE	102	45.104	10.288	-20.620	1.00	0.00		H
ATOM	491	HB3 PHE	102	46.074	11.726	-20.703	1.00	0.00		H
ATOM	492	HD1 PHE	102	47.896	10.545	-19.690	1.00	0.00		H
ATOM	493	HD2 PHE	102	44.153	10.993	-17.572	1.00	0.00		H
ATOM	494	HE1 PHE	102	49.002	9.831	-17.606	1.00	0.00		H

ATOM	495	HE2 PHE	102	45.262	10.240	-15.496	1.00	0.00		H
ATOM	496	HZ PHE	102	47.680	9.662	-15.495	1.00	0.00		H
ATOM	497	N MET	103	43.441	14.518	-19.961	1.00	175.00		N
ATOM	498	CA MET	103	43.406	15.886	-19.443	1.00	175.00		C
ATOM	499	C MET	103	42.001	16.442	-19.633	1.00	175.00		C
ATOM	500	O MET	103	41.406	17.016	-18.722	1.00	175.00		O
ATOM	501	CB MET	103	44.448	16.767	-20.171	1.00	175.00		C
ATOM	502	CG MET	103	44.780	18.124	-19.526	1.00	175.00		C
ATOM	503	SD MET	103	43.555	19.465	-19.484	1.00	175.00		S
ATOM	504	CE MET	103	43.322	19.783	-21.253	1.00	175.00		C
ATOM	505	H MET	103	42.664	14.232	-20.563	1.00	0.00		H
ATOM	506	HA MET	103	43.621	15.850	-18.376	1.00	0.00		H
ATOM	507	2HB MET	103	45.379	16.207	-20.234	1.00	0.00		H
ATOM	508	HB3 MET	103	44.145	16.934	-21.204	1.00	0.00		H
ATOM	509	2HG MET	103	45.142	17.961	-18.516	1.00	0.00		H
ATOM	510	HG3 MET	103	45.615	18.538	-20.075	1.00	0.00		H
ATOM	511	1HE MET	103	42.647	20.625	-21.401	1.00	0.00		H
ATOM	512	2HE MET	103	44.270	20.008	-21.742	1.00	0.00		H
ATOM	513	3HE MET	103	42.881	18.915	-21.736	1.00	0.00		H
ATOM	514	N ASP	104	41.553	16.313	-20.878	1.00	75.73		N
ATOM	515	CA ASP	104	40.438	16.985	-21.527	1.00	75.73		C
ATOM	516	C ASP	104	39.126	16.253	-21.206	1.00	75.73		C
ATOM	517	O ASP	104	38.055	16.845	-21.308	1.00	75.73		O
ATOM	518	CB ASP	104	40.669	16.986	-23.078	1.00	75.73		C
ATOM	519	CG ASP	104	42.132	16.928	-23.545	1.00	75.73		C
ATOM	520	OD1 ASP	104	42.778	15.890	-23.267	1.00	75.73		O
ATOM	521	OD2 ASP	104	42.648	17.898	-24.136	1.00	75.73		O1-
ATOM	522	H ASP	104	42.172	15.858	-21.554	1.00	0.00		H
ATOM	523	HA ASP	104	40.382	18.011	-21.160	1.00	0.00		H
ATOM	524	2HB ASP	104	40.178	16.126	-23.535	1.00	0.00		H
ATOM	525	HB3 ASP	104	40.190	17.862	-23.515	1.00	0.00		H
ATOM	526	N ILE	105	39.227	14.983	-20.790	1.00	120.51		N
ATOM	527	CA ILE	105	38.188	14.130	-20.235	1.00	120.51		C
ATOM	528	C ILE	105	38.768	13.520	-18.937	1.00	120.51		C
ATOM	529	O ILE	105	39.983	13.311	-18.832	1.00	120.51		O
ATOM	530	CB ILE	105	37.750	13.066	-21.287	1.00	120.51		C
ATOM	531	CG2 ILE	105	36.650	12.119	-20.769	1.00	120.51		C
ATOM	532	CG1 ILE	105	37.347	13.637	-22.670	1.00	120.51		C
ATOM	533	CD1 ILE	105	36.041	14.448	-22.684	1.00	120.51		C
ATOM	534	H ILE	105	40.161	14.598	-20.717	1.00	0.00		H
ATOM	535	HA ILE	105	37.330	14.745	-19.959	1.00	0.00		H
ATOM	536	HB ILE	105	38.632	12.452	-21.470	1.00	0.00		H
ATOM	537	1HG2 ILE	105	36.344	11.407	-21.536	1.00	0.00		H
ATOM	538	2HG2 ILE	105	36.995	11.531	-19.921	1.00	0.00		H
ATOM	539	3HG2 ILE	105	35.762	12.663	-20.451	1.00	0.00		H
ATOM	540	2HG1 ILE	105	38.153	14.247	-23.076	1.00	0.00		H
ATOM	541	HG13 ILE	105	37.241	12.809	-23.372	1.00	0.00		H
ATOM	542	1HD1 ILE	105	35.862	14.869	-23.673	1.00	0.00		H
ATOM	543	2HD1 ILE	105	35.180	13.828	-22.435	1.00	0.00		H
ATOM	544	3HD1 ILE	105	36.073	15.278	-21.978	1.00	0.00		H
ATOM	545	N GLU	106	37.903	13.233	-17.954	1.00	67.30		N
ATOM	546	CA GLU	106	38.257	12.671	-16.649	1.00	67.30		C
ATOM	547	C GLU	106	38.629	11.178	-16.758	1.00	67.30		C
ATOM	548	O GLU	106	38.351	10.525	-17.759	1.00	67.30		O
ATOM	549	CB GLU	106	37.073	12.838	-15.668	1.00	67.30		C
ATOM	550	CG GLU	106	36.478	14.262	-15.557	1.00	67.30		C

ATOM	551	CD	GLU	106	37.526	15.335	-15.301	1.00	67.30	C
ATOM	552	OE1	GLU	106	37.854	15.629	-14.132	1.00	67.30	O
ATOM	553	OE2	GLU	106	38.058	15.878	-16.287	1.00	67.30	O1-
ATOM	554	H	GLU	106	36.934	13.453	-18.107	1.00	0.00	H
ATOM	555	HA	GLU	106	39.128	13.212	-16.272	1.00	0.00	H
ATOM	556	2HB	GLU	106	36.271	12.151	-15.940	1.00	0.00	H
ATOM	557	HB3	GLU	106	37.401	12.531	-14.675	1.00	0.00	H
ATOM	558	2HG	GLU	106	35.943	14.522	-16.470	1.00	0.00	H
ATOM	559	HG3	GLU	106	35.742	14.298	-14.755	1.00	0.00	H
ATOM	560	N	CYS	107	39.304	10.643	-15.735	1.00	82.72	N
ATOM	561	CA	CYS	107	40.080	9.404	-15.813	1.00	82.72	C
ATOM	562	C	CYS	107	39.961	8.568	-14.528	1.00	82.72	C
ATOM	563	O	CYS	107	40.964	8.174	-13.929	1.00	82.72	O
ATOM	564	CB	CYS	107	41.521	9.756	-16.260	1.00	82.72	C
ATOM	565	SG	CYS	107	41.677	9.653	-18.066	1.00	82.72	S
ATOM	566	H	CYS	107	39.426	11.210	-14.910	1.00	0.00	H
ATOM	567	HA	CYS	107	39.643	8.744	-16.567	1.00	0.00	H
ATOM	568	2HB	CYS	107	41.801	10.757	-15.930	1.00	0.00	H
ATOM	569	HB3	CYS	107	42.260	9.089	-15.827	1.00	0.00	H
ATOM	570	HG	CYS	107	40.588	10.395	-18.329	1.00	0.00	H
ATOM	571	N	PHE	108	38.725	8.316	-14.080	1.00	130.26	N
ATOM	572	CA	PHE	108	38.384	7.775	-12.759	1.00	130.26	C
ATOM	573	C	PHE	108	38.692	6.274	-12.570	1.00	130.26	C
ATOM	574	O	PHE	108	38.457	5.740	-11.482	1.00	130.26	O
ATOM	575	CB	PHE	108	36.888	8.031	-12.478	1.00	130.26	C
ATOM	576	CG	PHE	108	36.462	9.493	-12.493	1.00	130.26	C
ATOM	577	CD1	PHE	108	35.374	9.898	-13.295	1.00	130.26	C
ATOM	578	CD2	PHE	108	37.141	10.450	-11.707	1.00	130.26	C
ATOM	579	CE1	PHE	108	34.962	11.245	-13.304	1.00	130.26	C
ATOM	580	CE2	PHE	108	36.732	11.798	-11.721	1.00	130.26	C
ATOM	581	CZ	PHE	108	35.639	12.194	-12.515	1.00	130.26	C
ATOM	582	H	PHE	108	37.942	8.558	-14.684	1.00	0.00	H
ATOM	583	HA	PHE	108	38.981	8.304	-12.016	1.00	0.00	H
ATOM	584	2HB	PHE	108	36.279	7.474	-13.188	1.00	0.00	H
ATOM	585	HB3	PHE	108	36.620	7.634	-11.498	1.00	0.00	H
ATOM	586	HD1	PHE	108	34.848	9.180	-13.910	1.00	0.00	H
ATOM	587	HD2	PHE	108	37.981	10.163	-11.092	1.00	0.00	H
ATOM	588	HE1	PHE	108	34.133	11.551	-13.926	1.00	0.00	H
ATOM	589	HE2	PHE	108	37.258	12.533	-11.131	1.00	0.00	H
ATOM	590	HZ	PHE	108	35.335	13.231	-12.535	1.00	0.00	H
ATOM	591	N	MET	109	39.278	5.603	-13.571	1.00	155.86	N
ATOM	592	CA	MET	109	40.011	4.350	-13.401	1.00	155.86	C
ATOM	593	C	MET	109	41.284	4.335	-14.252	1.00	155.86	C
ATOM	594	O	MET	109	41.688	3.297	-14.772	1.00	155.86	O
ATOM	595	CB	MET	109	39.126	3.085	-13.454	1.00	155.86	C
ATOM	596	CG	MET	109	39.495	2.003	-12.415	1.00	155.86	C
ATOM	597	SD	MET	109	41.084	1.134	-12.606	1.00	155.86	S
ATOM	598	CE	MET	109	40.701	0.018	-13.987	1.00	155.86	C
ATOM	599	H	MET	109	39.386	6.077	-14.461	1.00	0.00	H
ATOM	600	HA	MET	109	40.418	4.386	-12.388	1.00	0.00	H
ATOM	601	2HB	MET	109	38.098	3.376	-13.243	1.00	0.00	H
ATOM	602	HB3	MET	109	39.116	2.669	-14.461	1.00	0.00	H
ATOM	603	2HG	MET	109	39.494	2.455	-11.424	1.00	0.00	H
ATOM	604	HG3	MET	109	38.709	1.248	-12.388	1.00	0.00	H
ATOM	605	1HE	MET	109	41.577	-0.567	-14.264	1.00	0.00	H
ATOM	606	2HE	MET	109	39.913	-0.679	-13.702	1.00	0.00	H

ATOM	607	3HE	MET	109	40.372	0.574	-14.865	1.00	0.00	H
ATOM	608	N	VAL	110	41.977	5.477	-14.324	1.00	52.99	N
ATOM	609	CA	VAL	110	43.438	5.484	-14.345	1.00	52.99	C
ATOM	610	C	VAL	110	43.880	5.488	-12.868	1.00	52.99	C
ATOM	611	O	VAL	110	44.745	4.705	-12.485	1.00	52.99	O
ATOM	612	CB	VAL	110	43.980	6.722	-15.098	1.00	52.99	C
ATOM	613	CG1	VAL	110	45.520	6.736	-15.160	1.00	52.99	C
ATOM	614	CG2	VAL	110	43.409	6.771	-16.526	1.00	52.99	C
ATOM	615	H	VAL	110	41.522	6.328	-14.006	1.00	0.00	H
ATOM	616	HA	VAL	110	43.818	4.587	-14.831	1.00	0.00	H
ATOM	617	HB	VAL	110	43.662	7.626	-14.575	1.00	0.00	H
ATOM	618	1HG1	VAL	110	45.882	7.599	-15.716	1.00	0.00	H
ATOM	619	2HG1	VAL	110	45.972	6.789	-14.170	1.00	0.00	H
ATOM	620	3HG1	VAL	110	45.907	5.841	-15.648	1.00	0.00	H
ATOM	621	1HG2	VAL	110	43.805	7.617	-17.088	1.00	0.00	H
ATOM	622	2HG2	VAL	110	43.635	5.860	-17.079	1.00	0.00	H
ATOM	623	3HG2	VAL	110	42.324	6.875	-16.514	1.00	0.00	H
ATOM	624	N	LEU	111	43.210	6.286	-12.027	1.00	158.71	N
ATOM	625	CA	LEU	111	43.183	6.175	-10.578	1.00	158.71	C
ATOM	626	C	LEU	111	41.803	6.670	-10.125	1.00	158.71	C
ATOM	627	O	LEU	111	41.178	7.473	-10.815	1.00	158.71	O
ATOM	628	CB	LEU	111	44.401	6.892	-9.953	1.00	158.71	C
ATOM	629	CG	LEU	111	44.594	6.720	-8.431	1.00	158.71	C
ATOM	630	CD1	LEU	111	44.833	5.250	-8.047	1.00	158.71	C
ATOM	631	CD2	LEU	111	45.763	7.590	-7.947	1.00	158.71	C
ATOM	632	H	LEU	111	42.508	6.921	-12.397	1.00	0.00	H
ATOM	633	HA	LEU	111	43.234	5.111	-10.340	1.00	0.00	H
ATOM	634	2HB	LEU	111	45.305	6.536	-10.446	1.00	0.00	H
ATOM	635	HB3	LEU	111	44.332	7.954	-10.187	1.00	0.00	H
ATOM	636	HG	LEU	111	43.701	7.075	-7.915	1.00	0.00	H
ATOM	637	1HD1	LEU	111	45.094	5.153	-6.995	1.00	0.00	H
ATOM	638	2HD1	LEU	111	43.951	4.632	-8.215	1.00	0.00	H
ATOM	639	3HD1	LEU	111	45.654	4.820	-8.622	1.00	0.00	H
ATOM	640	1HD2	LEU	111	45.882	7.542	-6.866	1.00	0.00	H
ATOM	641	2HD2	LEU	111	46.707	7.277	-8.397	1.00	0.00	H
ATOM	642	3HD2	LEU	111	45.615	8.639	-8.202	1.00	0.00	H
ATOM	643	N	ASN	112	41.293	6.179	-8.992	1.00	66.45	N
ATOM	644	CA	ASN	112	39.973	6.572	-8.479	1.00	66.45	C
ATOM	645	C	ASN	112	40.075	7.944	-7.785	1.00	66.45	C
ATOM	646	O	ASN	112	41.097	8.206	-7.140	1.00	66.45	O
ATOM	647	CB	ASN	112	39.469	5.537	-7.449	1.00	66.45	C
ATOM	648	CG	ASN	112	39.224	4.132	-8.007	1.00	66.45	C
ATOM	649	OD1	ASN	112	39.515	3.157	-7.327	1.00	66.45	O
ATOM	650	ND2	ASN	112	38.672	3.977	-9.207	1.00	66.45	N
ATOM	651	H	ASN	112	41.847	5.534	-8.452	1.00	0.00	H
ATOM	652	HA	ASN	112	39.274	6.638	-9.309	1.00	0.00	H
ATOM	653	2HB	ASN	112	40.177	5.457	-6.622	1.00	0.00	H
ATOM	654	HB3	ASN	112	38.530	5.866	-7.004	1.00	0.00	H
ATOM	655	2HD2	ASN	112	38.478	3.033	-9.503	1.00	0.00	H
ATOM	656	1HD2	ASN	112	38.486	4.745	-9.852	1.00	0.00	H
ATOM	657	N	PRO	113	39.038	8.813	-7.858	1.00	74.88	N
ATOM	658	CA	PRO	113	39.122	10.212	-7.410	1.00	74.88	C
ATOM	659	C	PRO	113	39.410	10.396	-5.908	1.00	74.88	C
ATOM	660	O	PRO	113	40.138	11.312	-5.528	1.00	74.88	O
ATOM	661	CD	PRO	113	37.702	8.505	-8.375	1.00	74.88	C
ATOM	662	CB	PRO	113	37.814	10.875	-7.865	1.00	74.88	C

ATOM	663	CG	PRO	113	36.834	9.730	-8.078	1.00	74.88	C
ATOM	664	HA	PRO	113	39.932	10.684	-7.963	1.00	0.00	H
ATOM	665	HD3	PRO	113	37.764	8.352	-9.453	1.00	0.00	H
ATOM	666	2HD	PRO	113	37.274	7.605	-7.932	1.00	0.00	H
ATOM	667	2HB	PRO	113	37.436	11.621	-7.164	1.00	0.00	H
ATOM	668	HB3	PRO	113	37.983	11.388	-8.813	1.00	0.00	H
ATOM	669	HG3	PRO	113	36.110	9.936	-8.869	1.00	0.00	H
ATOM	670	2HG	PRO	113	36.271	9.563	-7.159	1.00	0.00	H
ATOM	671	N	SER	114	38.932	9.484	-5.056	1.00	70.16	N
ATOM	672	CA	SER	114	39.195	9.478	-3.618	1.00	70.16	C
ATOM	673	C	SER	114	40.675	9.171	-3.305	1.00	70.16	C
ATOM	674	O	SER	114	41.217	9.698	-2.335	1.00	70.16	O
ATOM	675	CB	SER	114	38.306	8.383	-2.997	1.00	70.16	C
ATOM	676	OG	SER	114	36.970	8.506	-3.467	1.00	70.16	O
ATOM	677	H	SER	114	38.249	8.812	-5.376	1.00	0.00	H
ATOM	678	HA	SER	114	38.939	10.455	-3.202	1.00	0.00	H
ATOM	679	2HB	SER	114	38.670	7.388	-3.257	1.00	0.00	H
ATOM	680	HB3	SER	114	38.323	8.448	-1.907	1.00	0.00	H
ATOM	681	HG	SER	114	36.594	9.307	-3.126	1.00	0.00	H
ATOM	682	N	GLN	115	41.345	8.359	-4.140	1.00	123.95	N
ATOM	683	CA	GLN	115	42.755	8.015	-3.972	1.00	123.95	C
ATOM	684	C	GLN	115	43.647	9.075	-4.646	1.00	123.95	C
ATOM	685	O	GLN	115	44.745	9.331	-4.159	1.00	123.95	O
ATOM	686	CB	GLN	115	43.016	6.620	-4.589	1.00	123.95	C
ATOM	687	CG	GLN	115	44.436	6.054	-4.355	1.00	123.95	C
ATOM	688	CD	GLN	115	44.815	5.951	-2.877	1.00	123.95	C
ATOM	689	OE1	GLN	115	44.019	5.517	-2.054	1.00	123.95	O
ATOM	690	NE2	GLN	115	46.018	6.373	-2.511	1.00	123.95	N
ATOM	691	H	GLN	115	40.884	8.057	-4.987	1.00	0.00	H
ATOM	692	HA	GLN	115	42.986	7.990	-2.906	1.00	0.00	H
ATOM	693	2HB	GLN	115	42.298	5.912	-4.172	1.00	0.00	H
ATOM	694	HB3	GLN	115	42.820	6.643	-5.661	1.00	0.00	H
ATOM	695	2HG	GLN	115	44.494	5.048	-4.771	1.00	0.00	H
ATOM	696	HG3	GLN	115	45.177	6.651	-4.884	1.00	0.00	H
ATOM	697	2HE2	GLN	115	46.260	6.318	-1.535	1.00	0.00	H
ATOM	698	1HE2	GLN	115	46.650	6.780	-3.182	1.00	0.00	H
ATOM	699	N	GLN	116	43.158	9.737	-5.706	1.00	57.32	N
ATOM	700	CA	GLN	116	43.759	10.928	-6.317	1.00	57.32	C
ATOM	701	C	GLN	116	43.836	12.098	-5.316	1.00	57.32	C
ATOM	702	O	GLN	116	44.873	12.747	-5.185	1.00	57.32	O
ATOM	703	CB	GLN	116	42.958	11.311	-7.573	1.00	57.32	C
ATOM	704	CG	GLN	116	43.290	10.394	-8.765	1.00	57.32	C
ATOM	705	CD	GLN	116	42.615	10.738	-10.089	1.00	57.32	C
ATOM	706	OE1	GLN	116	42.805	10.011	-11.059	1.00	57.32	O
ATOM	707	NE2	GLN	116	41.854	11.823	-10.186	1.00	57.32	N
ATOM	708	H	GLN	116	42.278	9.418	-6.091	1.00	0.00	H
ATOM	709	HA	GLN	116	44.776	10.692	-6.629	1.00	0.00	H
ATOM	710	2HB	GLN	116	41.896	11.302	-7.360	1.00	0.00	H
ATOM	711	HB3	GLN	116	43.174	12.339	-7.841	1.00	0.00	H
ATOM	712	2HG	GLN	116	44.363	10.430	-8.952	1.00	0.00	H
ATOM	713	HG3	GLN	116	43.048	9.360	-8.523	1.00	0.00	H
ATOM	714	2HE2	GLN	116	41.461	12.047	-11.089	1.00	0.00	H
ATOM	715	1HE2	GLN	116	41.788	12.500	-9.430	1.00	0.00	H
ATOM	716	N	LEU	117	42.767	12.299	-4.533	1.00	129.02	N
ATOM	717	CA	LEU	117	42.727	13.235	-3.409	1.00	129.02	C
ATOM	718	C	LEU	117	43.719	12.826	-2.300	1.00	129.02	C

ATOM	719	O	LEU	117	44.398	13.682	-1.736	1.00129.02	O
ATOM	720	CB	LEU	117	41.272	13.310	-2.888	1.00129.02	C
ATOM	721	CG	LEU	117	40.988	14.419	-1.843	1.00129.02	C
ATOM	722	CD1	LEU	117	39.588	15.021	-2.052	1.00129.02	C
ATOM	723	CD2	LEU	117	41.125	13.922	-0.392	1.00129.02	C
ATOM	724	H	LEU	117	41.922	11.782	-4.750	1.00 0.00	H
ATOM	725	HA	LEU	117	43.023	14.217	-3.782	1.00 0.00	H
ATOM	726	2HB	LEU	117	40.638	13.490	-3.757	1.00 0.00	H
ATOM	727	HB3	LEU	117	40.951	12.343	-2.501	1.00 0.00	H
ATOM	728	HG	LEU	117	41.704	15.229	-1.994	1.00 0.00	H
ATOM	729	1HD1	LEU	117	39.393	15.822	-1.338	1.00 0.00	H
ATOM	730	2HD1	LEU	117	39.486	15.449	-3.050	1.00 0.00	H
ATOM	731	3HD1	LEU	117	38.808	14.269	-1.931	1.00 0.00	H
ATOM	732	1HD2	LEU	117	40.903	14.720	0.316	1.00 0.00	H
ATOM	733	2HD2	LEU	117	40.441	13.098	-0.187	1.00 0.00	H
ATOM	734	3HD2	LEU	117	42.133	13.577	-0.167	1.00 0.00	H
ATOM	735	N	ALA	118	43.850	11.523	-2.008	1.00 25.52	N
ATOM	736	CA	ALA	118	44.752	11.005	-0.978	1.00 25.52	C
ATOM	737	C	ALA	118	46.237	11.231	-1.321	1.00 25.52	C
ATOM	738	O	ALA	118	47.001	11.642	-0.448	1.00 25.52	O
ATOM	739	CB	ALA	118	44.490	9.507	-0.759	1.00 25.52	C
ATOM	740	H	ALA	118	43.245	10.871	-2.489	1.00 0.00	H
ATOM	741	HA	ALA	118	44.536	11.535	-0.047	1.00 0.00	H
ATOM	742	1HB	ALA	118	45.070	9.136	0.087	1.00 0.00	H
ATOM	743	2HB	ALA	118	43.439	9.315	-0.542	1.00 0.00	H
ATOM	744	3HB	ALA	118	44.769	8.911	-1.626	1.00 0.00	H
ATOM	745	N	ILE	119	46.654	11.012	-2.579	1.00 95.28	N
ATOM	746	CA	ILE	119	48.031	11.283	-3.013	1.00 95.28	C
ATOM	747	C	ILE	119	48.321	12.796	-3.119	1.00 95.28	C
ATOM	748	O	ILE	119	49.467	13.201	-2.914	1.00 95.28	O
ATOM	749	CB	ILE	119	48.378	10.527	-4.327	1.00 95.28	C
ATOM	750	CG2	ILE	119	48.369	9.003	-4.088	1.00 95.28	C
ATOM	751	CG1	ILE	119	47.514	10.914	-5.541	1.00 95.28	C
ATOM	752	CD1	ILE	119	47.965	10.287	-6.867	1.00 95.28	C
ATOM	753	H	ILE	119	45.986	10.663	-3.259	1.00 0.00	H
ATOM	754	HA	ILE	119	48.701	10.913	-2.238	1.00 0.00	H
ATOM	755	HB	ILE	119	49.400	10.803	-4.590	1.00 0.00	H
ATOM	756	1HG2	ILE	119	48.806	8.464	-4.928	1.00 0.00	H
ATOM	757	2HG2	ILE	119	48.955	8.738	-3.208	1.00 0.00	H
ATOM	758	3HG2	ILE	119	47.355	8.633	-3.940	1.00 0.00	H
ATOM	759	2HG1	ILE	119	46.487	10.637	-5.345	1.00 0.00	H
ATOM	760	HG13	ILE	119	47.517	11.994	-5.669	1.00 0.00	H
ATOM	761	1HD1	ILE	119	47.388	10.692	-7.699	1.00 0.00	H
ATOM	762	2HD1	ILE	119	49.017	10.493	-7.063	1.00 0.00	H
ATOM	763	3HD1	ILE	119	47.833	9.207	-6.872	1.00 0.00	H
ATOM	764	N	ALA	120	47.294	13.638	-3.330	1.00 27.51	N
ATOM	765	CA	ALA	120	47.404	15.098	-3.310	1.00 27.51	C
ATOM	766	C	ALA	120	47.810	15.621	-1.917	1.00 27.51	C
ATOM	767	O	ALA	120	48.667	16.501	-1.809	1.00 27.51	O
ATOM	768	CB	ALA	120	46.085	15.738	-3.753	1.00 27.51	C
ATOM	769	H	ALA	120	46.383	13.236	-3.520	1.00 0.00	H
ATOM	770	HA	ALA	120	48.160	15.382	-4.037	1.00 0.00	H
ATOM	771	1HB	ALA	120	46.212	16.812	-3.889	1.00 0.00	H
ATOM	772	2HB	ALA	120	45.748	15.328	-4.705	1.00 0.00	H
ATOM	773	3HB	ALA	120	45.286	15.603	-3.027	1.00 0.00	H
ATOM	774	N	VAL	121	47.269	15.018	-0.848	1.00 27.24	N

ATOM	775	CA	VAL	121	47.634	15.291	0.546	1.00	27.24	C
ATOM	776	C	VAL	121	49.085	14.846	0.851	1.00	27.24	C
ATOM	777	O	VAL	121	49.770	15.484	1.654	1.00	27.24	O
ATOM	778	CB	VAL	121	46.595	14.617	1.492	1.00	27.24	C
ATOM	779	CG1	VAL	121	46.951	14.709	2.990	1.00	27.24	C
ATOM	780	CG2	VAL	121	45.185	15.207	1.285	1.00	27.24	C
ATOM	781	H	VAL	121	46.556	14.320	-1.022	1.00	0.00	H
ATOM	782	HA	VAL	121	47.587	16.371	0.699	1.00	0.00	H
ATOM	783	HB	VAL	121	46.547	13.557	1.243	1.00	0.00	H
ATOM	784	1HG1	VAL	121	46.158	14.289	3.610	1.00	0.00	H
ATOM	785	2HG1	VAL	121	47.859	14.157	3.232	1.00	0.00	H
ATOM	786	3HG1	VAL	121	47.099	15.744	3.300	1.00	0.00	H
ATOM	787	1HG2	VAL	121	44.443	14.675	1.882	1.00	0.00	H
ATOM	788	2HG2	VAL	121	45.151	16.258	1.574	1.00	0.00	H
ATOM	789	3HG2	VAL	121	44.858	15.149	0.249	1.00	0.00	H
ATOM	790	N	LEU	122	49.597	13.798	0.189	1.00	90.91	N
ATOM	791	CA	LEU	122	50.987	13.365	0.338	1.00	90.91	C
ATOM	792	C	LEU	122	51.954	14.344	-0.356	1.00	90.91	C
ATOM	793	O	LEU	122	52.991	14.667	0.222	1.00	90.91	O
ATOM	794	CB	LEU	122	51.180	11.933	-0.207	1.00	90.91	C
ATOM	795	CG	LEU	122	50.415	10.834	0.571	1.00	90.91	C
ATOM	796	CD1	LEU	122	50.554	9.469	-0.121	1.00	90.91	C
ATOM	797	CD2	LEU	122	50.868	10.721	2.038	1.00	90.91	C
ATOM	798	H	LEU	122	49.000	13.315	-0.470	1.00	0.00	H
ATOM	799	HA	LEU	122	51.249	13.376	1.397	1.00	0.00	H
ATOM	800	2HB	LEU	122	50.883	11.908	-1.253	1.00	0.00	H
ATOM	801	HB3	LEU	122	52.244	11.689	-0.199	1.00	0.00	H
ATOM	802	HG	LEU	122	49.355	11.086	0.574	1.00	0.00	H
ATOM	803	1HD1	LEU	122	50.019	8.693	0.428	1.00	0.00	H
ATOM	804	2HD1	LEU	122	50.141	9.486	-1.127	1.00	0.00	H
ATOM	805	3HD1	LEU	122	51.599	9.162	-0.196	1.00	0.00	H
ATOM	806	1HD2	LEU	122	50.364	9.895	2.541	1.00	0.00	H
ATOM	807	2HD2	LEU	122	51.942	10.548	2.114	1.00	0.00	H
ATOM	808	3HD2	LEU	122	50.631	11.619	2.608	1.00	0.00	H
ATOM	809	N	SER	123	51.608	14.895	-1.530	1.00	69.82	N
ATOM	810	CA	SER	123	52.348	16.012	-2.128	1.00	69.82	C
ATOM	811	C	SER	123	52.238	17.312	-1.301	1.00	69.82	C
ATOM	812	O	SER	123	53.224	18.036	-1.205	1.00	69.82	O
ATOM	813	CB	SER	123	51.940	16.206	-3.605	1.00	69.82	C
ATOM	814	OG	SER	123	50.551	16.030	-3.820	1.00	69.82	O
ATOM	815	H	SER	123	50.766	14.584	-2.006	1.00	0.00	H
ATOM	816	HA	SER	123	53.408	15.754	-2.130	1.00	0.00	H
ATOM	817	2HB	SER	123	52.245	17.191	-3.966	1.00	0.00	H
ATOM	818	HB3	SER	123	52.471	15.485	-4.227	1.00	0.00	H
ATOM	819	HG	SER	123	50.065	16.602	-3.227	1.00	0.00	H
ATOM	820	N	LEU	124	51.110	17.570	-0.614	1.00	86.59	N
ATOM	821	CA	LEU	124	50.967	18.687	0.333	1.00	86.59	C
ATOM	822	C	LEU	124	51.953	18.529	1.505	1.00	86.59	C
ATOM	823	O	LEU	124	52.653	19.476	1.860	1.00	86.59	O
ATOM	824	CB	LEU	124	49.500	18.768	0.835	1.00	86.59	C
ATOM	825	CG	LEU	124	49.070	20.025	1.637	1.00	86.59	C
ATOM	826	CD1	LEU	124	49.420	19.956	3.134	1.00	86.59	C
ATOM	827	CD2	LEU	124	49.530	21.351	1.010	1.00	86.59	C
ATOM	828	H	LEU	124	50.302	16.979	-0.775	1.00	0.00	H
ATOM	829	HA	LEU	124	51.221	19.601	-0.207	1.00	0.00	H
ATOM	830	2HB	LEU	124	48.840	18.695	-0.028	1.00	0.00	H

ATOM	831	HB3 LEU	124	49.262	17.894	1.434	1.00	0.00	H
ATOM	832	HG LEU	124	47.979	20.032	1.596	1.00	0.00	H
ATOM	833	1HD1 LEU	124	48.916	20.753	3.683	1.00	0.00	H
ATOM	834	2HD1 LEU	124	49.106	19.010	3.575	1.00	0.00	H
ATOM	835	3HD1 LEU	124	50.487	20.074	3.316	1.00	0.00	H
ATOM	836	1HD2 LEU	124	49.072	22.202	1.516	1.00	0.00	H
ATOM	837	2HD2 LEU	124	50.611	21.479	1.078	1.00	0.00	H
ATOM	838	3HD2 LEU	124	49.251	21.413	-0.041	1.00	0.00	H
ATOM	839	N THR	125	52.064	17.309	2.052	1.00	27.14	N
ATOM	840	CA THR	125	52.979	16.941	3.135	1.00	27.14	C
ATOM	841	C THR	125	54.457	17.177	2.729	1.00	27.14	C
ATOM	842	O THR	125	55.223	17.772	3.493	1.00	27.14	O
ATOM	843	CB THR	125	52.701	15.472	3.548	1.00	27.14	C
ATOM	844	OG1 THR	125	51.343	15.325	3.936	1.00	27.14	O
ATOM	845	CG2 THR	125	53.527	15.001	4.751	1.00	27.14	C
ATOM	846	H THR	125	51.442	16.594	1.696	1.00	0.00	H
ATOM	847	HA THR	125	52.761	17.585	3.988	1.00	0.00	H
ATOM	848	HB THR	125	52.896	14.799	2.716	1.00	0.00	H
ATOM	849	HG1 THR	125	50.776	15.466	3.179	1.00	0.00	H
ATOM	850	1HG2 THR	125	53.254	13.988	5.046	1.00	0.00	H
ATOM	851	2HG2 THR	125	54.594	14.997	4.530	1.00	0.00	H
ATOM	852	3HG2 THR	125	53.369	15.652	5.612	1.00	0.00	H
ATOM	853	N LEU	126	54.835	16.811	1.493	1.00	38.29	N
ATOM	854	CA LEU	126	56.159	17.053	0.902	1.00	38.29	C
ATOM	855	C LEU	126	56.444	18.544	0.612	1.00	38.29	C
ATOM	856	O LEU	126	57.585	18.896	0.325	1.00	38.29	O
ATOM	857	CB LEU	126	56.298	16.245	-0.411	1.00	38.29	C
ATOM	858	CG LEU	126	56.393	14.713	-0.235	1.00	38.29	C
ATOM	859	CD1 LEU	126	56.196	13.997	-1.581	1.00	38.29	C
ATOM	860	CD2 LEU	126	57.726	14.280	0.397	1.00	38.29	C
ATOM	861	H LEU	126	54.147	16.354	0.906	1.00	0.00	H
ATOM	862	HA LEU	126	56.922	16.734	1.613	1.00	0.00	H
ATOM	863	2HB LEU	126	55.455	16.488	-1.057	1.00	0.00	H
ATOM	864	HB3 LEU	126	57.181	16.579	-0.960	1.00	0.00	H
ATOM	865	HG LEU	126	55.589	14.386	0.426	1.00	0.00	H
ATOM	866	1HD1 LEU	126	56.253	12.914	-1.468	1.00	0.00	H
ATOM	867	2HD1 LEU	126	55.222	14.226	-2.012	1.00	0.00	H
ATOM	868	3HD1 LEU	126	56.958	14.295	-2.303	1.00	0.00	H
ATOM	869	1HD2 LEU	126	57.776	13.196	0.484	1.00	0.00	H
ATOM	870	2HD2 LEU	126	58.577	14.602	-0.206	1.00	0.00	H
ATOM	871	3HD2 LEU	126	57.857	14.689	1.398	1.00	0.00	H
ATOM	872	N GLY	127	55.451	19.428	0.756	1.00	25.62	N
ATOM	873	CA GLY	127	55.575	20.868	0.557	1.00	25.62	C
ATOM	874	C GLY	127	55.658	21.624	1.889	1.00	25.62	C
ATOM	875	O GLY	127	55.770	22.846	1.890	1.00	25.62	O
ATOM	876	H GLY	127	54.520	19.082	0.959	1.00	0.00	H
ATOM	877	2HA GLY	127	56.438	21.125	-0.059	1.00	0.00	H
ATOM	878	HA3 GLY	127	54.693	21.216	0.018	1.00	0.00	H
ATOM	879	N THR	128	55.665	20.908	3.022	1.00	104.62	N
ATOM	880	CA THR	128	55.756	21.465	4.370	1.00	104.62	C
ATOM	881	C THR	128	56.836	20.742	5.198	1.00	104.62	C
ATOM	882	O THR	128	57.625	21.392	5.885	1.00	104.62	O
ATOM	883	CB THR	128	54.337	21.627	4.983	1.00	104.62	C
ATOM	884	OG1 THR	128	54.375	22.276	6.239	1.00	104.62	O
ATOM	885	CG2 THR	128	53.571	20.312	5.180	1.00	104.62	C
ATOM	886	H THR	128	55.528	19.911	2.925	1.00	0.00	H

ATOM	887	HA	THR	128	56.140	22.483	4.288	1.00	0.00	H
ATOM	888	HB	THR	128	53.758	22.267	4.313	1.00	0.00	H
ATOM	889	HG1	THR	128	53.529	22.667	6.399	1.00	0.00	H
ATOM	890	1HG2	THR	128	52.565	20.488	5.561	1.00	0.00	H
ATOM	891	2HG2	THR	128	53.464	19.786	4.236	1.00	0.00	H
ATOM	892	3HG2	THR	128	54.078	19.643	5.874	1.00	0.00	H
ATOM	893	N	PHE	129	56.982	19.413	5.057	1.00	52.95	N
ATOM	894	CA	PHE	129	57.980	18.610	5.782	1.00	52.95	C
ATOM	895	C	PHE	129	59.413	18.744	5.206	1.00	52.95	C
ATOM	896	O	PHE	129	60.338	18.094	5.696	1.00	52.95	O
ATOM	897	CB	PHE	129	57.548	17.125	5.800	1.00	52.95	C
ATOM	898	CG	PHE	129	56.410	16.717	6.732	1.00	52.95	C
ATOM	899	CD1	PHE	129	55.583	17.659	7.388	1.00	52.95	C
ATOM	900	CD2	PHE	129	56.196	15.341	6.962	1.00	52.95	C
ATOM	901	CE1	PHE	129	54.552	17.227	8.243	1.00	52.95	C
ATOM	902	CE2	PHE	129	55.169	14.909	7.823	1.00	52.95	C
ATOM	903	CZ	PHE	129	54.342	15.853	8.461	1.00	52.95	C
ATOM	904	H	PHE	129	56.316	18.898	4.483	1.00	0.00	H
ATOM	905	HA	PHE	129	58.040	18.956	6.812	1.00	0.00	H
ATOM	906	2HB	PHE	129	57.331	16.776	4.790	1.00	0.00	H
ATOM	907	HB3	PHE	129	58.388	16.525	6.143	1.00	0.00	H
ATOM	908	HD1	PHE	129	55.723	18.720	7.252	1.00	0.00	H
ATOM	909	HD2	PHE	129	56.822	14.610	6.470	1.00	0.00	H
ATOM	910	HE1	PHE	129	53.918	17.955	8.730	1.00	0.00	H
ATOM	911	HE2	PHE	129	55.006	13.853	7.983	1.00	0.00	H
ATOM	912	HZ	PHE	129	53.544	15.524	9.111	1.00	0.00	H
ATOM	913	N	THR	130	59.607	19.608	4.204	1.00	112.34	N
ATOM	914	CA	THR	130	60.894	20.143	3.766	1.00	112.34	C
ATOM	915	C	THR	130	61.258	21.354	4.664	1.00	112.34	C
ATOM	916	O	THR	130	62.320	21.376	5.295	1.00	112.34	O
ATOM	917	CB	THR	130	60.784	20.508	2.245	1.00	112.34	C
ATOM	918	OG1	THR	130	61.883	21.267	1.786	1.00	112.34	O
ATOM	919	CG2	THR	130	59.540	21.303	1.806	1.00	112.34	C
ATOM	920	H	THR	130	58.783	20.049	3.829	1.00	0.00	H
ATOM	921	HA	THR	130	61.675	19.389	3.883	1.00	0.00	H
ATOM	922	HB	THR	130	60.779	19.579	1.678	1.00	0.00	H
ATOM	923	HG1	THR	130	62.697	20.813	2.019	1.00	0.00	H
ATOM	924	1HG2	THR	130	59.503	21.360	0.718	1.00	0.00	H
ATOM	925	2HG2	THR	130	58.608	20.834	2.116	1.00	0.00	H
ATOM	926	3HG2	THR	130	59.560	22.328	2.169	1.00	0.00	H
ATOM	927	N	VAL	131	60.352	22.341	4.765	1.00	48.18	N
ATOM	928	CA	VAL	131	60.534	23.677	5.339	1.00	48.18	C
ATOM	929	C	VAL	131	61.091	23.647	6.775	1.00	48.18	C
ATOM	930	O	VAL	131	62.045	24.366	7.085	1.00	48.18	O
ATOM	931	CB	VAL	131	59.193	24.468	5.249	1.00	48.18	C
ATOM	932	CG1	VAL	131	59.348	25.948	5.643	1.00	48.18	C
ATOM	933	CG2	VAL	131	58.538	24.391	3.855	1.00	48.18	C
ATOM	934	H	VAL	131	59.477	22.197	4.287	1.00	0.00	H
ATOM	935	HA	VAL	131	61.273	24.182	4.714	1.00	0.00	H
ATOM	936	HB	VAL	131	58.487	24.023	5.952	1.00	0.00	H
ATOM	937	1HG1	VAL	131	58.390	26.469	5.601	1.00	0.00	H
ATOM	938	2HG1	VAL	131	59.732	26.073	6.656	1.00	0.00	H
ATOM	939	3HG1	VAL	131	60.026	26.459	4.961	1.00	0.00	H
ATOM	940	1HG2	VAL	131	57.653	25.027	3.797	1.00	0.00	H
ATOM	941	2HG2	VAL	131	59.223	24.712	3.069	1.00	0.00	H
ATOM	942	3HG2	VAL	131	58.196	23.386	3.617	1.00	0.00	H

ATOM	943	N	LEU	132	60.511	22.784	7.620	1.00139.89	N
ATOM	944	CA	LEU	132	60.796	22.611	9.049	1.00139.89	C
ATOM	945	C	LEU	132	62.231	22.173	9.422	1.00139.89	C
ATOM	946	O	LEU	132	62.559	22.156	10.609	1.00139.89	O
ATOM	947	CB	LEU	132	59.718	21.714	9.709	1.00139.89	C
ATOM	948	CG	LEU	132	59.312	20.412	8.979	1.00139.89	C
ATOM	949	CD1	LEU	132	60.464	19.409	8.843	1.00139.89	C
ATOM	950	CD2	LEU	132	58.116	19.755	9.688	1.00139.89	C
ATOM	951	H	LEU	132	59.761	22.227	7.231	1.00 0.00	H
ATOM	952	HA	LEU	132	60.698	23.602	9.497	1.00 0.00	H
ATOM	953	2HB	LEU	132	60.013	21.478	10.733	1.00 0.00	H
ATOM	954	HB3	LEU	132	58.820	22.325	9.816	1.00 0.00	H
ATOM	955	HG	LEU	132	58.977	20.671	7.976	1.00 0.00	H
ATOM	956	1HD1	LEU	132	60.114	18.459	8.437	1.00 0.00	H
ATOM	957	2HD1	LEU	132	61.235	19.770	8.163	1.00 0.00	H
ATOM	958	3HD1	LEU	132	60.927	19.210	9.808	1.00 0.00	H
ATOM	959	1HD2	LEU	132	57.803	18.841	9.181	1.00 0.00	H
ATOM	960	2HD2	LEU	132	58.358	19.493	10.718	1.00 0.00	H
ATOM	961	3HD2	LEU	132	57.254	20.423	9.706	1.00 0.00	H
ATOM	962	N	GLU	133	63.099	21.887	8.441	1.00110.04	N
ATOM	963	CA	GLU	133	64.549	21.891	8.617	1.00110.04	C
ATOM	964	C	GLU	133	65.278	22.599	7.461	1.00110.04	C
ATOM	965	O	GLU	133	66.210	23.354	7.741	1.00110.04	O
ATOM	966	CB	GLU	133	65.134	20.561	9.174	1.00110.04	C
ATOM	967	CG	GLU	133	66.683	20.479	9.132	1.00110.04	C
ATOM	968	CD	GLU	133	67.344	19.450	10.044	1.00110.04	C
ATOM	969	OE1	GLU	133	68.547	19.199	9.835	1.00110.04	O
ATOM	970	OE2	GLU	133	66.750	18.999	11.046	1.00110.04	O1-
ATOM	971	H	GLU	133	62.740	21.933	7.496	1.00 0.00	H
ATOM	972	HA	GLU	133	64.736	22.588	9.435	1.00 0.00	H
ATOM	973	2HB	GLU	133	64.798	20.455	10.204	1.00 0.00	H
ATOM	974	HB3	GLU	133	64.710	19.711	8.644	1.00 0.00	H
ATOM	975	2HG	GLU	133	67.039	20.317	8.115	1.00 0.00	H
ATOM	976	HG3	GLU	133	67.098	21.439	9.437	1.00 0.00	H
ATOM	977	N	ASN	134	64.846	22.443	6.192	1.00 70.34	N
ATOM	978	CA	ASN	134	65.520	23.045	5.026	1.00 70.34	C
ATOM	979	C	ASN	134	65.572	24.578	5.088	1.00 70.34	C
ATOM	980	O	ASN	134	66.644	25.154	4.923	1.00 70.34	O
ATOM	981	CB	ASN	134	64.884	22.666	3.664	1.00 70.34	C
ATOM	982	CG	ASN	134	65.147	21.256	3.140	1.00 70.34	C
ATOM	983	OD1	ASN	134	64.208	20.513	2.882	1.00 70.34	O
ATOM	984	ND2	ASN	134	66.395	20.899	2.860	1.00 70.34	N
ATOM	985	H	ASN	134	64.043	21.849	6.001	1.00 0.00	H
ATOM	986	HA	ASN	134	66.554	22.695	5.033	1.00 0.00	H
ATOM	987	2HB	ASN	134	63.808	22.841	3.684	1.00 0.00	H
ATOM	988	HB3	ASN	134	65.262	23.331	2.886	1.00 0.00	H
ATOM	989	2HD2	ASN	134	66.536	20.069	2.248	1.00 0.00	H
ATOM	990	1HD2	ASN	134	67.185	21.492	3.039	1.00 0.00	H
ATOM	991	N	LEU	135	64.439	25.250	5.337	1.00 45.20	N
ATOM	992	CA	LEU	135	64.382	26.716	5.339	1.00 45.20	C
ATOM	993	C	LEU	135	65.019	27.261	6.627	1.00 45.20	C
ATOM	994	O	LEU	135	65.762	28.241	6.582	1.00 45.20	O
ATOM	995	CB	LEU	135	62.912	27.184	5.221	1.00 45.20	C
ATOM	996	CG	LEU	135	62.708	28.716	5.098	1.00 45.20	C
ATOM	997	CD1	LEU	135	63.374	29.305	3.842	1.00 45.20	C
ATOM	998	CD2	LEU	135	61.216	29.077	5.121	1.00 45.20	C

ATOM	999	H	LEU	135	63.600	24.730	5.560	1.00	0.00		H
ATOM	1000	HA	LEU	135	64.949	27.088	4.485	1.00	0.00		H
ATOM	1001	2HB	LEU	135	62.460	26.704	4.352	1.00	0.00		H
ATOM	1002	HB3	LEU	135	62.351	26.825	6.085	1.00	0.00		H
ATOM	1003	HG	LEU	135	63.157	29.204	5.965	1.00	0.00		H
ATOM	1004	1HD1	LEU	135	63.167	30.372	3.754	1.00	0.00		H
ATOM	1005	2HD1	LEU	135	64.459	29.201	3.868	1.00	0.00		H
ATOM	1006	3HD1	LEU	135	63.010	28.825	2.932	1.00	0.00		H
ATOM	1007	1HD2	LEU	135	61.072	30.158	5.101	1.00	0.00		H
ATOM	1008	2HD2	LEU	135	60.691	28.663	4.259	1.00	0.00		H
ATOM	1009	3HD2	LEU	135	60.729	28.703	6.022	1.00	0.00		H
ATOM	1010	N	LEU	136	64.781	26.576	7.754	1.00	100.93		N
ATOM	1011	CA	LEU	136	65.342	26.861	9.074	1.00	100.93		C
ATOM	1012	C	LEU	136	66.879	26.923	9.045	1.00	100.93		C
ATOM	1013	O	LEU	136	67.467	27.903	9.508	1.00	100.93		O
ATOM	1014	CB	LEU	136	64.791	25.814	10.073	1.00	100.93		C
ATOM	1015	CG	LEU	136	65.241	25.954	11.549	1.00	100.93		C
ATOM	1016	CD1	LEU	136	64.097	25.580	12.505	1.00	100.93		C
ATOM	1017	CD2	LEU	136	66.476	25.092	11.871	1.00	100.93		C
ATOM	1018	H	LEU	136	64.179	25.770	7.665	1.00	0.00		H
ATOM	1019	HA	LEU	136	64.984	27.847	9.373	1.00	0.00		H
ATOM	1020	2HB	LEU	136	63.703	25.882	10.032	1.00	0.00		H
ATOM	1021	HB3	LEU	136	65.021	24.810	9.721	1.00	0.00		H
ATOM	1022	HG	LEU	136	65.488	26.999	11.744	1.00	0.00		H
ATOM	1023	1HD1	LEU	136	64.398	25.694	13.547	1.00	0.00		H
ATOM	1024	2HD1	LEU	136	63.226	26.218	12.350	1.00	0.00		H
ATOM	1025	3HD1	LEU	136	63.779	24.546	12.360	1.00	0.00		H
ATOM	1026	1HD2	LEU	136	66.740	25.167	12.925	1.00	0.00		H
ATOM	1027	2HD2	LEU	136	66.290	24.039	11.654	1.00	0.00		H
ATOM	1028	3HD2	LEU	136	67.354	25.396	11.303	1.00	0.00		H
ATOM	1029	N	VAL	137	67.529	25.898	8.476	1.00	94.40		N
ATOM	1030	CA	VAL	137	68.985	25.822	8.412	1.00	94.40		C
ATOM	1031	C	VAL	137	69.542	26.744	7.303	1.00	94.40		C
ATOM	1032	O	VAL	137	70.628	27.299	7.476	1.00	94.40		O
ATOM	1033	CB	VAL	137	69.405	24.335	8.240	1.00	94.40		C
ATOM	1034	CG1	VAL	137	69.246	23.765	6.819	1.00	94.40		C
ATOM	1035	CG2	VAL	137	70.820	24.077	8.774	1.00	94.40		C
ATOM	1036	H	VAL	137	66.995	25.118	8.102	1.00	0.00		H
ATOM	1037	HA	VAL	137	69.376	26.178	9.366	1.00	0.00		H
ATOM	1038	HB	VAL	137	68.743	23.747	8.879	1.00	0.00		H
ATOM	1039	1HG1	VAL	137	69.324	22.681	6.833	1.00	0.00		H
ATOM	1040	2HG1	VAL	137	68.271	23.997	6.404	1.00	0.00		H
ATOM	1041	3HG1	VAL	137	69.994	24.150	6.126	1.00	0.00		H
ATOM	1042	1HG2	VAL	137	71.060	23.015	8.743	1.00	0.00		H
ATOM	1043	2HG2	VAL	137	71.572	24.619	8.200	1.00	0.00		H
ATOM	1044	3HG2	VAL	137	70.906	24.393	9.811	1.00	0.00		H
ATOM	1045	N	LEU	138	68.797	26.958	6.204	1.00	50.99		N
ATOM	1046	CA	LEU	138	69.173	27.850	5.105	1.00	50.99		C
ATOM	1047	C	LEU	138	69.218	29.314	5.571	1.00	50.99		C
ATOM	1048	O	LEU	138	70.223	29.990	5.354	1.00	50.99		O
ATOM	1049	CB	LEU	138	68.209	27.665	3.913	1.00	50.99		C
ATOM	1050	CG	LEU	138	68.506	28.499	2.645	1.00	50.99		C
ATOM	1051	CD1	LEU	138	69.935	28.297	2.111	1.00	50.99		C
ATOM	1052	CD2	LEU	138	67.480	28.188	1.545	1.00	50.99		C
ATOM	1053	H	LEU	138	67.920	26.457	6.115	1.00	0.00		H
ATOM	1054	HA	LEU	138	70.167	27.551	4.778	1.00	0.00		H

ATOM	1055	2HB	LEU	138	68.231	26.616	3.630	1.00	0.00	H
ATOM	1056	HB3	LEU	138	67.189	27.869	4.238	1.00	0.00	H
ATOM	1057	HG	LEU	138	68.386	29.553	2.896	1.00	0.00	H
ATOM	1058	1HD1	LEU	138	70.086	28.858	1.188	1.00	0.00	H
ATOM	1059	2HD1	LEU	138	70.685	28.649	2.818	1.00	0.00	H
ATOM	1060	3HD1	LEU	138	70.135	27.247	1.897	1.00	0.00	H
ATOM	1061	1HD2	LEU	138	67.623	28.829	0.675	1.00	0.00	H
ATOM	1062	2HD2	LEU	138	67.557	27.154	1.207	1.00	0.00	H
ATOM	1063	3HD2	LEU	138	66.460	28.346	1.898	1.00	0.00	H
ATOM	1064	N	CYS	139	68.176	29.786	6.270	1.00	83.18	N
ATOM	1065	CA	CYS	139	68.096	31.129	6.853	1.00	83.18	C
ATOM	1066	C	CYS	139	69.257	31.420	7.820	1.00	83.18	C
ATOM	1067	O	CYS	139	69.885	32.479	7.743	1.00	83.18	O
ATOM	1068	CB	CYS	139	66.733	31.310	7.548	1.00	83.18	C
ATOM	1069	SG	CYS	139	65.454	31.624	6.296	1.00	83.18	S
ATOM	1070	H	CYS	139	67.362	29.183	6.383	1.00	0.00	H
ATOM	1071	HA	CYS	139	68.179	31.858	6.045	1.00	0.00	H
ATOM	1072	2HB	CYS	139	66.469	30.435	8.145	1.00	0.00	H
ATOM	1073	HB3	CYS	139	66.750	32.162	8.229	1.00	0.00	H
ATOM	1074	HG	CYS	139	64.420	31.657	7.142	1.00	0.00	H
ATOM	1075	N	VAL	140	69.591	30.435	8.666	1.00	47.48	N
ATOM	1076	CA	VAL	140	70.735	30.421	9.571	1.00	47.48	C
ATOM	1077	C	VAL	140	72.077	30.688	8.859	1.00	47.48	C
ATOM	1078	O	VAL	140	72.816	31.580	9.287	1.00	47.48	O
ATOM	1079	CB	VAL	140	70.692	29.111	10.411	1.00	47.48	C
ATOM	1080	CG1	VAL	140	72.062	28.553	10.852	1.00	47.48	C
ATOM	1081	CG2	VAL	140	69.745	29.290	11.609	1.00	47.48	C
ATOM	1082	H	VAL	140	69.022	29.598	8.640	1.00	0.00	H
ATOM	1083	HA	VAL	140	70.600	31.267	10.250	1.00	0.00	H
ATOM	1084	HB	VAL	140	70.254	28.327	9.796	1.00	0.00	H
ATOM	1085	1HG1	VAL	140	71.957	27.770	11.599	1.00	0.00	H
ATOM	1086	2HG1	VAL	140	72.593	28.108	10.010	1.00	0.00	H
ATOM	1087	3HG1	VAL	140	72.709	29.326	11.262	1.00	0.00	H
ATOM	1088	1HG2	VAL	140	69.626	28.367	12.172	1.00	0.00	H
ATOM	1089	2HG2	VAL	140	70.112	30.058	12.289	1.00	0.00	H
ATOM	1090	3HG2	VAL	140	68.751	29.596	11.282	1.00	0.00	H
ATOM	1091	N	ILE	141	72.396	29.937	7.795	1.00	100.08	N
ATOM	1092	CA	ILE	141	73.674	30.060	7.085	1.00	100.08	C
ATOM	1093	C	ILE	141	73.679	31.255	6.111	1.00	100.08	C
ATOM	1094	O	ILE	141	74.757	31.728	5.757	1.00	100.08	O
ATOM	1095	CB	ILE	141	74.016	28.746	6.330	1.00	100.08	C
ATOM	1096	CG2	ILE	141	74.175	27.572	7.316	1.00	100.08	C
ATOM	1097	CG1	ILE	141	73.034	28.400	5.188	1.00	100.08	C
ATOM	1098	CD1	ILE	141	73.500	27.266	4.276	1.00	100.08	C
ATOM	1099	H	ILE	141	71.748	29.216	7.494	1.00	0.00	H
ATOM	1100	HA	ILE	141	74.467	30.242	7.815	1.00	0.00	H
ATOM	1101	HB	ILE	141	74.995	28.901	5.873	1.00	0.00	H
ATOM	1102	1HG2	ILE	141	74.554	26.681	6.819	1.00	0.00	H
ATOM	1103	2HG2	ILE	141	74.873	27.820	8.116	1.00	0.00	H
ATOM	1104	3HG2	ILE	141	73.227	27.302	7.781	1.00	0.00	H
ATOM	1105	2HG1	ILE	141	72.075	28.138	5.618	1.00	0.00	H
ATOM	1106	HG13	ILE	141	72.849	29.262	4.549	1.00	0.00	H
ATOM	1107	1HD1	ILE	141	72.816	27.173	3.433	1.00	0.00	H
ATOM	1108	2HD1	ILE	141	74.498	27.449	3.880	1.00	0.00	H
ATOM	1109	3HD1	ILE	141	73.512	26.312	4.804	1.00	0.00	H
ATOM	1110	N	LEU	142	72.508	31.759	5.686	1.00	142.11	N

ATOM	1111	CA	LEU	142	72.380	33.004	4.926	1.00142.11	C
ATOM	1112	C	LEU	142	72.717	34.206	5.823	1.00142.11	C
ATOM	1113	O	LEU	142	73.479	35.078	5.400	1.00142.11	O
ATOM	1114	CB	LEU	142	70.953	33.163	4.353	1.00142.11	C
ATOM	1115	CG	LEU	142	70.655	32.312	3.099	1.00142.11	C
ATOM	1116	CD1	LEU	142	69.146	32.299	2.811	1.00142.11	C
ATOM	1117	CD2	LEU	142	71.417	32.802	1.855	1.00142.11	C
ATOM	1118	H	LEU	142	71.658	31.251	5.917	1.00 0.00	H
ATOM	1119	HA	LEU	142	73.102	32.992	4.111	1.00 0.00	H
ATOM	1120	2HB	LEU	142	70.230	32.927	5.135	1.00 0.00	H
ATOM	1121	HB3	LEU	142	70.768	34.210	4.103	1.00 0.00	H
ATOM	1122	HG	LEU	142	70.959	31.283	3.291	1.00 0.00	H
ATOM	1123	1HD1	LEU	142	68.913	31.694	1.934	1.00 0.00	H
ATOM	1124	2HD1	LEU	142	68.585	31.883	3.648	1.00 0.00	H
ATOM	1125	3HD1	LEU	142	68.763	33.304	2.625	1.00 0.00	H
ATOM	1126	1HD2	LEU	142	71.151	32.208	0.980	1.00 0.00	H
ATOM	1127	2HD2	LEU	142	71.180	33.842	1.627	1.00 0.00	H
ATOM	1128	3HD2	LEU	142	72.496	32.721	1.976	1.00 0.00	H
ATOM	1129	N	HIS	143	72.218	34.203	7.068	1.00 73.77	N
ATOM	1130	CA	HIS	143	72.573	35.136	8.136	1.00 73.77	C
ATOM	1131	C	HIS	143	74.061	35.004	8.516	1.00 73.77	C
ATOM	1132	O	HIS	143	74.878	35.829	8.108	1.00 73.77	O
ATOM	1133	ND1	HIS	143	72.491	36.746	10.929	1.00 73.77	N
ATOM	1134	CG	HIS	143	72.063	35.447	10.702	1.00 73.77	C
ATOM	1135	CB	HIS	143	71.621	34.923	9.348	1.00 73.77	C
ATOM	1136	NE2	HIS	143	72.648	35.707	12.884	1.00 73.77	N
ATOM	1137	CD2	HIS	143	72.157	34.818	11.926	1.00 73.77	C
ATOM	1138	CE1	HIS	143	72.813	36.843	12.220	1.00 73.77	C
ATOM	1139	H	HIS	143	71.566	33.459	7.302	1.00 0.00	H
ATOM	1140	HA	HIS	143	72.430	36.154	7.769	1.00 0.00	H
ATOM	1141	HD1	HIS	143	72.632	37.490	10.260	1.00 0.00	H
ATOM	1142	2HB	HIS	143	70.654	35.368	9.119	1.00 0.00	H
ATOM	1143	HB3	HIS	143	71.422	33.860	9.483	1.00 0.00	H
ATOM	1144	HD2	HIS	143	71.920	33.796	12.189	1.00 0.00	H
ATOM	1145	HE1	HIS	143	73.190	37.751	12.671	1.00 0.00	H
ATOM	1146	N	SER	144	74.405	33.947	9.258	1.00 53.53	N
ATOM	1147	CA	SER	144	75.544	33.867	10.170	1.00 53.53	C
ATOM	1148	C	SER	144	76.895	34.047	9.459	1.00 53.53	C
ATOM	1149	O	SER	144	77.285	33.202	8.647	1.00 53.53	O
ATOM	1150	CB	SER	144	75.508	32.477	10.822	1.00 53.53	C
ATOM	1151	OG	SER	144	74.314	32.256	11.553	1.00 53.53	O
ATOM	1152	H	SER	144	73.696	33.232	9.377	1.00 0.00	H
ATOM	1153	HA	SER	144	75.429	34.637	10.936	1.00 0.00	H
ATOM	1154	2HB	SER	144	75.604	31.696	10.064	1.00 0.00	H
ATOM	1155	HB3	SER	144	76.357	32.376	11.495	1.00 0.00	H
ATOM	1156	HG	SER	144	73.631	32.051	10.915	1.00 0.00	H
ATOM	1157	N	ARG	145	77.609	35.145	9.720	1.00 50.48	N
ATOM	1158	CA	ARG	145	78.821	35.537	8.993	1.00 50.48	C
ATOM	1159	C	ARG	145	80.088	34.756	9.407	1.00 50.48	C
ATOM	1160	O	ARG	145	81.172	35.082	8.933	1.00 50.48	O
ATOM	1161	CB	ARG	145	79.026	37.062	9.143	1.00 50.48	C
ATOM	1162	CG	ARG	145	78.004	37.852	8.302	1.00 50.48	C
ATOM	1163	CD	ARG	145	78.099	39.378	8.474	1.00 50.48	C
ATOM	1164	NE	ARG	145	76.949	39.870	9.238	1.00 50.48	N
ATOM	1165	CZ	ARG	145	76.380	41.073	9.287	1.00 50.48	C
ATOM	1166	NH1	ARG	145	76.827	42.100	8.561	1.00 50.48	N

ATOM	1167	NH2 ARG	145	75.338	41.196	10.100	1.00	50.48	N1+
ATOM	1168	H ARG	145	77.222	35.830	10.392	1.00	0.00	H
ATOM	1169	HA ARG	145	78.684	35.320	7.932	1.00	0.00	H
ATOM	1170	2HB ARG	145	78.955	37.347	10.194	1.00	0.00	H
ATOM	1171	HB3 ARG	145	80.028	37.350	8.820	1.00	0.00	H
ATOM	1172	2HG ARG	145	78.146	37.606	7.249	1.00	0.00	H
ATOM	1173	HG3 ARG	145	76.996	37.510	8.544	1.00	0.00	H
ATOM	1174	2HD ARG	145	79.027	39.675	8.965	1.00	0.00	H
ATOM	1175	HD3 ARG	145	78.088	39.851	7.492	1.00	0.00	H
ATOM	1176	HE ARG	145	76.518	39.173	9.887	1.00	0.00	H
ATOM	1177	2HH1 ARG	145	76.399	43.014	8.599	1.00	0.00	H
ATOM	1178	1HH1 ARG	145	77.640	41.989	7.974	1.00	0.00	H
ATOM	1179	2HH2 ARG	145	74.801	42.029	10.282	1.00	0.00	H
ATOM	1180	1HH2 ARG	145	75.121	40.326	10.634	1.00	0.00	H
ATOM	1181	N SER	146	79.959	33.693	10.210	1.00	93.08	N
ATOM	1182	CA SER	146	81.036	32.763	10.545	1.00	93.08	C
ATOM	1183	C SER	146	80.534	31.306	10.569	1.00	93.08	C
ATOM	1184	O SER	146	81.213	30.437	10.020	1.00	93.08	O
ATOM	1185	CB SER	146	81.827	33.284	11.758	1.00	93.08	C
ATOM	1186	OG SER	146	82.933	32.487	12.138	1.00	93.08	O
ATOM	1187	H SER	146	79.038	33.487	10.560	1.00	0.00	H
ATOM	1188	HA SER	146	81.746	32.773	9.715	1.00	0.00	H
ATOM	1189	2HB SER	146	82.205	34.285	11.547	1.00	0.00	H
ATOM	1190	HB3 SER	146	81.143	33.380	12.595	1.00	0.00	H
ATOM	1191	HG SER	146	82.585	31.681	12.567	1.00	0.00	H
ATOM	1192	N LEU	147	79.301	31.035	11.050	1.00	99.22	N
ATOM	1193	CA LEU	147	78.583	29.736	11.040	1.00	99.22	C
ATOM	1194	C LEU	147	78.240	29.231	9.606	1.00	99.22	C
ATOM	1195	O LEU	147	77.158	28.732	9.317	1.00	99.22	O
ATOM	1196	CB LEU	147	77.321	29.822	11.950	1.00	99.22	C
ATOM	1197	CG LEU	147	76.986	28.570	12.801	1.00	99.22	C
ATOM	1198	CD1 LEU	147	76.583	28.964	14.233	1.00	99.22	C
ATOM	1199	CD2 LEU	147	75.861	27.723	12.179	1.00	99.22	C
ATOM	1200	H LEU	147	78.919	31.750	11.659	1.00	0.00	H
ATOM	1201	HA LEU	147	79.271	29.015	11.480	1.00	0.00	H
ATOM	1202	2HB LEU	147	77.446	30.654	12.636	1.00	0.00	H
ATOM	1203	HB3 LEU	147	76.441	30.080	11.366	1.00	0.00	H
ATOM	1204	HG LEU	147	77.875	27.947	12.886	1.00	0.00	H
ATOM	1205	1HD1 LEU	147	76.336	28.087	14.832	1.00	0.00	H
ATOM	1206	2HD1 LEU	147	77.385	29.491	14.747	1.00	0.00	H
ATOM	1207	3HD1 LEU	147	75.718	29.625	14.232	1.00	0.00	H
ATOM	1208	1HD2 LEU	147	75.653	26.841	12.785	1.00	0.00	H
ATOM	1209	2HD2 LEU	147	74.935	28.291	12.091	1.00	0.00	H
ATOM	1210	3HD2 LEU	147	76.122	27.367	11.183	1.00	0.00	H
ATOM	1211	N ARG	148	79.208	29.345	8.699	1.00	220.09	N
ATOM	1212	CA ARG	148	79.352	28.731	7.384	1.00	220.09	C
ATOM	1213	C ARG	148	80.634	27.845	7.400	1.00	220.09	C
ATOM	1214	O ARG	148	81.088	27.360	6.361	1.00	220.09	O
ATOM	1215	CB ARG	148	79.465	29.880	6.345	1.00	220.09	C
ATOM	1216	CG ARG	148	78.199	30.767	6.192	1.00	220.09	C
ATOM	1217	CD ARG	148	78.510	32.171	5.621	1.00	220.09	C
ATOM	1218	NE ARG	148	77.432	32.714	4.766	1.00	220.09	N
ATOM	1219	CZ ARG	148	76.559	33.694	5.065	1.00	220.09	C
ATOM	1220	NH1 ARG	148	76.510	34.236	6.277	1.00	220.09	N
ATOM	1221	NH2 ARG	148	75.729	34.163	4.133	1.00	220.09	N1+
ATOM	1222	H ARG	148	80.043	29.811	9.065	1.00	0.00	H

ATOM	1223	HA	ARG	148	78.495	28.096	7.155	1.00	0.00	H
ATOM	1224	2HB	ARG	148	80.311	30.509	6.629	1.00	0.00	H
ATOM	1225	HB3	ARG	148	79.721	29.469	5.368	1.00	0.00	H
ATOM	1226	2HG	ARG	148	77.458	30.247	5.584	1.00	0.00	H
ATOM	1227	HG3	ARG	148	77.721	30.908	7.162	1.00	0.00	H
ATOM	1228	2HD	ARG	148	78.773	32.865	6.421	1.00	0.00	H
ATOM	1229	HD3	ARG	148	79.395	32.114	4.987	1.00	0.00	H
ATOM	1230	HE	ARG	148	77.319	32.230	3.890	1.00	0.00	H
ATOM	1231	2HH1	ARG	148	75.837	34.954	6.550	1.00	0.00	H
ATOM	1232	1HH1	ARG	148	76.943	33.754	7.071	1.00	0.00	H
ATOM	1233	2HH2	ARG	148	74.945	34.750	4.445	1.00	0.00	H
ATOM	1234	1HH2	ARG	148	75.705	33.838	3.182	1.00	0.00	H
ATOM	1235	N	CYS	149	81.243	27.677	8.586	1.00	118.93	N
ATOM	1236	CA	CYS	149	82.589	27.174	8.852	1.00	118.93	C
ATOM	1237	C	CYS	149	82.704	25.639	8.828	1.00	118.93	C
ATOM	1238	O	CYS	149	83.685	25.104	8.319	1.00	118.93	O
ATOM	1239	CB	CYS	149	83.000	27.687	10.254	1.00	118.93	C
ATOM	1240	SG	CYS	149	81.733	27.435	11.545	1.00	118.93	S
ATOM	1241	H	CYS	149	80.813	28.133	9.381	1.00	0.00	H
ATOM	1242	HA	CYS	149	83.282	27.579	8.114	1.00	0.00	H
ATOM	1243	2HB	CYS	149	83.921	27.210	10.581	1.00	0.00	H
ATOM	1244	HB3	CYS	149	83.206	28.755	10.198	1.00	0.00	H
ATOM	1245	HG	CYS	149	82.045	28.527	12.271	1.00	0.00	H
ATOM	1246	N	ARG	150	81.717	24.915	9.366	1.00	145.79	N
ATOM	1247	CA	ARG	150	81.638	23.454	9.350	1.00	145.79	C
ATOM	1248	C	ARG	150	81.111	23.036	7.956	1.00	145.79	C
ATOM	1249	O	ARG	150	80.030	23.499	7.593	1.00	145.79	O
ATOM	1250	CB	ARG	150	80.638	23.051	10.473	1.00	145.79	C
ATOM	1251	CG	ARG	150	80.056	21.621	10.526	1.00	145.79	C
ATOM	1252	CD	ARG	150	80.766	20.608	11.425	1.00	145.79	C
ATOM	1253	NE	ARG	150	82.091	20.263	10.901	1.00	145.79	N
ATOM	1254	CZ	ARG	150	82.429	19.307	10.031	1.00	145.79	C
ATOM	1255	NH1	ARG	150	81.521	18.534	9.431	1.00	145.79	N
ATOM	1256	NH2	ARG	150	83.718	19.161	9.746	1.00	145.79	N1+
ATOM	1257	H	ARG	150	80.932	25.426	9.747	1.00	0.00	H
ATOM	1258	HA	ARG	150	82.615	23.030	9.570	1.00	0.00	H
ATOM	1259	2HB	ARG	150	81.030	23.331	11.451	1.00	0.00	H
ATOM	1260	HB3	ARG	150	79.763	23.672	10.331	1.00	0.00	H
ATOM	1261	2HG	ARG	150	79.039	21.707	10.916	1.00	0.00	H
ATOM	1262	HG3	ARG	150	79.943	21.207	9.532	1.00	0.00	H
ATOM	1263	2HD	ARG	150	80.866	21.007	12.436	1.00	0.00	H
ATOM	1264	HD3	ARG	150	80.165	19.704	11.514	1.00	0.00	H
ATOM	1265	HE	ARG	150	82.848	20.879	11.234	1.00	0.00	H
ATOM	1266	2HH1	ARG	150	81.816	17.797	8.746	1.00	0.00	H
ATOM	1267	1HH1	ARG	150	80.513	18.646	9.558	1.00	0.00	H
ATOM	1268	2HH2	ARG	150	84.003	18.557	8.933	1.00	0.00	H
ATOM	1269	1HH2	ARG	150	84.433	19.744	10.163	1.00	0.00	H
ATOM	1270	N	PRO	151	81.793	22.152	7.189	1.00	62.37	N
ATOM	1271	CA	PRO	151	81.301	21.530	5.941	1.00	62.37	C
ATOM	1272	C	PRO	151	79.846	21.028	5.925	1.00	62.37	C
ATOM	1273	O	PRO	151	79.195	21.068	4.885	1.00	62.37	O
ATOM	1274	CD	PRO	151	83.174	21.736	7.435	1.00	62.37	C
ATOM	1275	CB	PRO	151	82.267	20.373	5.673	1.00	62.37	C
ATOM	1276	CG	PRO	151	83.580	20.851	6.256	1.00	62.37	C
ATOM	1277	HA	PRO	151	81.408	22.279	5.154	1.00	0.00	H
ATOM	1278	HD3	PRO	151	83.839	22.597	7.509	1.00	0.00	H

ATOM	1279	2HD	PRO	151	83.225	21.188	8.369	1.00	0.00		H
ATOM	1280	2HB	PRO	151	81.939	19.473	6.195	1.00	0.00		H
ATOM	1281	HB3	PRO	151	82.352	20.130	4.616	1.00	0.00		H
ATOM	1282	HG3	PRO	151	84.091	21.448	5.502	1.00	0.00		H
ATOM	1283	2HG	PRO	151	84.253	20.041	6.540	1.00	0.00		H
ATOM	1284	N	SER	152	79.298	20.615	7.071	1.00	74.47		N
ATOM	1285	CA	SER	152	77.890	20.275	7.256	1.00	74.47		C
ATOM	1286	C	SER	152	76.951	21.464	6.951	1.00	74.47		C
ATOM	1287	O	SER	152	75.882	21.244	6.391	1.00	74.47		O
ATOM	1288	CB	SER	152	77.693	19.776	8.696	1.00	74.47		C
ATOM	1289	OG	SER	152	78.714	18.833	9.026	1.00	74.47		O
ATOM	1290	H	SER	152	79.883	20.507	7.884	1.00	0.00		H
ATOM	1291	HA	SER	152	77.656	19.457	6.576	1.00	0.00		H
ATOM	1292	2HB	SER	152	77.687	20.600	9.410	1.00	0.00		H
ATOM	1293	HB3	SER	152	76.714	19.304	8.774	1.00	0.00		H
ATOM	1294	HG	SER	152	78.534	18.047	8.518	1.00	0.00		H
ATOM	1295	N	TYR	153	77.384	22.709	7.215	1.00	55.12		N
ATOM	1296	CA	TYR	153	76.655	23.953	6.930	1.00	55.12		C
ATOM	1297	C	TYR	153	76.787	24.345	5.445	1.00	55.12		C
ATOM	1298	O	TYR	153	76.062	25.220	4.982	1.00	55.12		O
ATOM	1299	CB	TYR	153	77.245	25.121	7.763	1.00	55.12		C
ATOM	1300	CG	TYR	153	77.325	24.953	9.276	1.00	55.12		C
ATOM	1301	CD1	TYR	153	78.258	25.724	10.002	1.00	55.12		C
ATOM	1302	CD2	TYR	153	76.482	24.060	9.973	1.00	55.12		C
ATOM	1303	CE1	TYR	153	78.396	25.561	11.394	1.00	55.12		C
ATOM	1304	CE2	TYR	153	76.625	23.897	11.363	1.00	55.12		C
ATOM	1305	CZ	TYR	153	77.600	24.621	12.072	1.00	55.12		C
ATOM	1306	OH	TYR	153	77.786	24.403	13.404	1.00	55.12		O
ATOM	1307	H	TYR	153	78.319	22.841	7.592	1.00	0.00		H
ATOM	1308	HA	TYR	153	75.598	23.832	7.166	1.00	0.00		H
ATOM	1309	2HB	TYR	153	78.245	25.362	7.399	1.00	0.00		H
ATOM	1310	HB3	TYR	153	76.657	26.022	7.584	1.00	0.00		H
ATOM	1311	HD1	TYR	153	78.882	26.436	9.488	1.00	0.00		H
ATOM	1312	HD2	TYR	153	75.727	23.484	9.460	1.00	0.00		H
ATOM	1313	HE1	TYR	153	79.125	26.137	11.944	1.00	0.00		H
ATOM	1314	HE2	TYR	153	75.983	23.208	11.884	1.00	0.00		H
ATOM	1315	HH	TYR	153	77.223	23.691	13.754	1.00	0.00		H
ATOM	1316	N	HIS	154	77.679	23.693	4.680	1.00	52.18		N
ATOM	1317	CA	HIS	154	77.634	23.708	3.220	1.00	52.18		C
ATOM	1318	C	HIS	154	76.617	22.639	2.817	1.00	52.18		C
ATOM	1319	O	HIS	154	75.609	22.995	2.223	1.00	52.18		O
ATOM	1320	ND1	HIS	154	78.283	22.842	0.189	1.00	52.18		N
ATOM	1321	CG	HIS	154	79.166	23.405	1.105	1.00	52.18		C
ATOM	1322	CB	HIS	154	79.016	23.371	2.614	1.00	52.18		C
ATOM	1323	NE2	HIS	154	79.969	23.634	-1.011	1.00	52.18		N
ATOM	1324	CD2	HIS	154	80.216	23.863	0.344	1.00	52.18		C
ATOM	1325	CE1	HIS	154	78.835	22.935	-1.018	1.00	52.18		C
ATOM	1326	H	HIS	154	78.201	22.954	5.128	1.00	0.00		H
ATOM	1327	HA	HIS	154	77.308	24.683	2.849	1.00	0.00		H
ATOM	1328	HD1	HIS	154	77.364	22.398	0.337	1.00	0.00		H
ATOM	1329	2HB	HIS	154	79.756	24.054	3.031	1.00	0.00		H
ATOM	1330	HB3	HIS	154	79.340	22.380	2.907	1.00	0.00		H
ATOM	1331	HD2	HIS	154	81.141	24.306	0.679	1.00	0.00		H
ATOM	1332	HE1	HIS	154	78.378	22.516	-1.905	1.00	0.00		H
ATOM	1333	N	PHE	155	76.874	21.362	3.159	1.00	135.75		N
ATOM	1334	CA	PHE	155	76.078	20.168	2.836	1.00	135.75		C

ATOM	1335	C	PHE	155	74.559	20.374	2.954	1.00135.75	C
ATOM	1336	O	PHE	155	73.848	20.262	1.961	1.00135.75	O
ATOM	1337	CB	PHE	155	76.643	18.923	3.580	1.00135.75	C
ATOM	1338	CG	PHE	155	75.655	17.868	4.071	1.00135.75	C
ATOM	1339	CD1	PHE	155	75.173	16.873	3.195	1.00135.75	C
ATOM	1340	CD2	PHE	155	75.180	17.904	5.401	1.00135.75	C
ATOM	1341	CE1	PHE	155	74.213	15.941	3.633	1.00135.75	C
ATOM	1342	CE2	PHE	155	74.219	16.974	5.839	1.00135.75	C
ATOM	1343	CZ	PHE	155	73.730	15.997	4.953	1.00135.75	C
ATOM	1344	H	PHE	155	77.716	21.201	3.701	1.00 0.00	H
ATOM	1345	HA	PHE	155	76.248	19.992	1.773	1.00 0.00	H
ATOM	1346	2HB	PHE	155	77.372	18.431	2.934	1.00 0.00	H
ATOM	1347	HB3	PHE	155	77.219	19.247	4.443	1.00 0.00	H
ATOM	1348	HD1	PHE	155	75.504	16.836	2.170	1.00 0.00	H
ATOM	1349	HD2	PHE	155	75.507	18.675	6.081	1.00 0.00	H
ATOM	1350	HE1	PHE	155	73.817	15.207	2.944	1.00 0.00	H
ATOM	1351	HE2	PHE	155	73.825	17.032	6.844	1.00 0.00	H
ATOM	1352	HZ	PHE	155	72.955	15.314	5.275	1.00 0.00	H
ATOM	1353	N	ILE	156	74.082	20.762	4.142	1.00124.18	N
ATOM	1354	CA	ILE	156	72.660	20.901	4.459	1.00124.18	C
ATOM	1355	C	ILE	156	72.022	22.123	3.749	1.00124.18	C
ATOM	1356	O	ILE	156	70.802	22.220	3.636	1.00124.18	O
ATOM	1357	CB	ILE	156	72.555	20.991	6.010	1.00124.18	C
ATOM	1358	CG2	ILE	156	72.915	22.380	6.577	1.00124.18	C
ATOM	1359	CG1	ILE	156	71.192	20.510	6.544	1.00124.18	C
ATOM	1360	CD1	ILE	156	71.028	18.987	6.522	1.00124.18	C
ATOM	1361	H	ILE	156	74.732	20.906	4.907	1.00 0.00	H
ATOM	1362	HA	ILE	156	72.152	20.002	4.105	1.00 0.00	H
ATOM	1363	HB	ILE	156	73.291	20.303	6.430	1.00 0.00	H
ATOM	1364	1HG2	ILE	156	73.077	22.334	7.653	1.00 0.00	H
ATOM	1365	2HG2	ILE	156	73.821	22.776	6.124	1.00 0.00	H
ATOM	1366	3HG2	ILE	156	72.123	23.104	6.389	1.00 0.00	H
ATOM	1367	2HG1	ILE	156	71.061	20.843	7.574	1.00 0.00	H
ATOM	1368	HG13	ILE	156	70.379	20.959	5.974	1.00 0.00	H
ATOM	1369	1HD1	ILE	156	70.106	18.712	7.029	1.00 0.00	H
ATOM	1370	2HD1	ILE	156	70.971	18.589	5.509	1.00 0.00	H
ATOM	1371	3HD1	ILE	156	71.843	18.483	7.040	1.00 0.00	H
ATOM	1372	N	GLY	157	72.849	23.028	3.214	1.00 29.89	N
ATOM	1373	CA	GLY	157	72.443	24.275	2.590	1.00 29.89	C
ATOM	1374	C	GLY	157	72.485	24.163	1.071	1.00 29.89	C
ATOM	1375	O	GLY	157	71.592	24.679	0.405	1.00 29.89	O
ATOM	1376	H	GLY	157	73.841	22.831	3.248	1.00 0.00	H
ATOM	1377	2HA	GLY	157	71.465	24.615	2.934	1.00 0.00	H
ATOM	1378	HA3	GLY	157	73.171	25.028	2.874	1.00 0.00	H
ATOM	1379	N	SER	158	73.468	23.434	0.523	1.00 83.90	N
ATOM	1380	CA	SER	158	73.475	22.979	-0.862	1.00 83.90	C
ATOM	1381	C	SER	158	72.424	21.875	-1.116	1.00 83.90	C
ATOM	1382	O	SER	158	72.046	21.691	-2.268	1.00 83.90	O
ATOM	1383	CB	SER	158	74.918	22.601	-1.277	1.00 83.90	C
ATOM	1384	OG	SER	158	75.591	21.691	-0.417	1.00 83.90	O
ATOM	1385	H	SER	158	74.195	23.048	1.122	1.00 0.00	H
ATOM	1386	HA	SER	158	73.182	23.817	-1.495	1.00 0.00	H
ATOM	1387	2HB	SER	158	74.908	22.179	-2.285	1.00 0.00	H
ATOM	1388	HB3	SER	158	75.516	23.510	-1.337	1.00 0.00	H
ATOM	1389	HG	SER	158	75.202	20.824	-0.598	1.00 0.00	H
ATOM	1390	N	LEU	159	71.878	21.237	-0.064	1.00 95.12	N

ATOM	1391	CA	LEU	159	70.603	20.514	-0.113	1.00	95.12	C
ATOM	1392	C	LEU	159	69.439	21.514	-0.163	1.00	95.12	C
ATOM	1393	O	LEU	159	68.654	21.483	-1.106	1.00	95.12	O
ATOM	1394	CB	LEU	159	70.402	19.613	1.142	1.00	95.12	C
ATOM	1395	CG	LEU	159	70.704	18.112	0.970	1.00	95.12	C
ATOM	1396	CD1	LEU	159	70.025	17.507	-0.264	1.00	95.12	C
ATOM	1397	CD2	LEU	159	72.197	17.806	0.990	1.00	95.12	C
ATOM	1398	H	LEU	159	72.333	21.326	0.833	1.00	0.00	H
ATOM	1399	HA	LEU	159	70.558	19.939	-1.035	1.00	0.00	H
ATOM	1400	2HB	LEU	159	70.955	20.006	1.993	1.00	0.00	H
ATOM	1401	HB3	LEU	159	69.357	19.652	1.459	1.00	0.00	H
ATOM	1402	HG	LEU	159	70.279	17.610	1.841	1.00	0.00	H
ATOM	1403	1HD1	LEU	159	70.066	16.422	-0.212	1.00	0.00	H
ATOM	1404	2HD1	LEU	159	68.975	17.800	-0.324	1.00	0.00	H
ATOM	1405	3HD1	LEU	159	70.497	17.803	-1.199	1.00	0.00	H
ATOM	1406	1HD2	LEU	159	72.398	16.759	0.763	1.00	0.00	H
ATOM	1407	2HD2	LEU	159	72.697	18.431	0.256	1.00	0.00	H
ATOM	1408	3HD2	LEU	159	72.622	18.017	1.971	1.00	0.00	H
ATOM	1409	N	ALA	160	69.327	22.404	0.838	1.00	39.06	N
ATOM	1410	CA	ALA	160	68.182	23.294	1.045	1.00	39.06	C
ATOM	1411	C	ALA	160	67.754	24.127	-0.169	1.00	39.06	C
ATOM	1412	O	ALA	160	66.563	24.205	-0.450	1.00	39.06	O
ATOM	1413	CB	ALA	160	68.414	24.192	2.263	1.00	39.06	C
ATOM	1414	H	ALA	160	70.001	22.340	1.589	1.00	0.00	H
ATOM	1415	HA	ALA	160	67.331	22.651	1.257	1.00	0.00	H
ATOM	1416	1HB	ALA	160	67.534	24.813	2.436	1.00	0.00	H
ATOM	1417	2HB	ALA	160	68.584	23.613	3.170	1.00	0.00	H
ATOM	1418	3HB	ALA	160	69.263	24.857	2.114	1.00	0.00	H
ATOM	1419	N	VAL	161	68.709	24.691	-0.919	1.00	102.70	N
ATOM	1420	CA	VAL	161	68.433	25.465	-2.135	1.00	102.70	C
ATOM	1421	C	VAL	161	67.925	24.603	-3.314	1.00	102.70	C
ATOM	1422	O	VAL	161	67.451	25.160	-4.300	1.00	102.70	O
ATOM	1423	CB	VAL	161	69.710	26.248	-2.552	1.00	102.70	C
ATOM	1424	CG1	VAL	161	70.112	27.283	-1.485	1.00	102.70	C
ATOM	1425	CG2	VAL	161	70.905	25.347	-2.928	1.00	102.70	C
ATOM	1426	H	VAL	161	69.673	24.568	-0.637	1.00	0.00	H
ATOM	1427	HA	VAL	161	67.639	26.182	-1.914	1.00	0.00	H
ATOM	1428	HB	VAL	161	69.453	26.818	-3.447	1.00	0.00	H
ATOM	1429	1HG1	VAL	161	70.937	27.905	-1.832	1.00	0.00	H
ATOM	1430	2HG1	VAL	161	69.278	27.946	-1.254	1.00	0.00	H
ATOM	1431	3HG1	VAL	161	70.421	26.808	-0.555	1.00	0.00	H
ATOM	1432	1HG2	VAL	161	71.792	25.937	-3.151	1.00	0.00	H
ATOM	1433	2HG2	VAL	161	71.152	24.653	-2.128	1.00	0.00	H
ATOM	1434	3HG2	VAL	161	70.689	24.747	-3.814	1.00	0.00	H
ATOM	1435	N	ALA	162	68.044	23.272	-3.228	1.00	40.50	N
ATOM	1436	CA	ALA	162	67.563	22.322	-4.220	1.00	40.50	C
ATOM	1437	C	ALA	162	66.292	21.621	-3.725	1.00	40.50	C
ATOM	1438	O	ALA	162	65.373	21.439	-4.516	1.00	40.50	O
ATOM	1439	CB	ALA	162	68.648	21.271	-4.448	1.00	40.50	C
ATOM	1440	H	ALA	162	68.407	22.876	-2.367	1.00	0.00	H
ATOM	1441	HA	ALA	162	67.348	22.817	-5.169	1.00	0.00	H
ATOM	1442	1HB	ALA	162	68.352	20.589	-5.242	1.00	0.00	H
ATOM	1443	2HB	ALA	162	69.579	21.746	-4.752	1.00	0.00	H
ATOM	1444	3HB	ALA	162	68.846	20.675	-3.557	1.00	0.00	H
ATOM	1445	N	ASP	163	66.191	21.290	-2.428	1.00	40.91	N
ATOM	1446	CA	ASP	163	64.984	20.720	-1.804	1.00	40.91	C

ATOM	1447	C	ASP	163	63.820	21.726	-1.840	1.00	40.91	C
ATOM	1448	O	ASP	163	62.698	21.362	-2.191	1.00	40.91	O
ATOM	1449	CB	ASP	163	65.231	20.318	-0.330	1.00	40.91	C
ATOM	1450	CG	ASP	163	66.091	19.081	-0.085	1.00	40.91	C
ATOM	1451	OD1	ASP	163	65.935	18.085	-0.830	1.00	40.91	O
ATOM	1452	OD2	ASP	163	66.827	19.087	0.927	1.00	40.91	O1-
ATOM	1453	H	ASP	163	67.022	21.388	-1.850	1.00	0.00	H
ATOM	1454	HA	ASP	163	64.680	19.841	-2.374	1.00	0.00	H
ATOM	1455	2HB	ASP	163	65.666	21.162	0.203	1.00	0.00	H
ATOM	1456	HB3	ASP	163	64.276	20.114	0.157	1.00	0.00	H
ATOM	1457	N	LEU	164	64.103	23.010	-1.567	1.00	44.67	N
ATOM	1458	CA	LEU	164	63.137	24.112	-1.654	1.00	44.67	C
ATOM	1459	C	LEU	164	63.029	24.677	-3.087	1.00	44.67	C
ATOM	1460	O	LEU	164	62.357	25.687	-3.293	1.00	44.67	O
ATOM	1461	CB	LEU	164	63.558	25.261	-0.706	1.00	44.67	C
ATOM	1462	CG	LEU	164	63.605	24.890	0.792	1.00	44.67	C
ATOM	1463	CD1	LEU	164	64.353	25.971	1.582	1.00	44.67	C
ATOM	1464	CD2	LEU	164	62.205	24.665	1.387	1.00	44.67	C
ATOM	1465	H	LEU	164	65.049	23.250	-1.293	1.00	0.00	H
ATOM	1466	HA	LEU	164	62.149	23.753	-1.366	1.00	0.00	H
ATOM	1467	2HB	LEU	164	64.530	25.639	-1.028	1.00	0.00	H
ATOM	1468	HB3	LEU	164	62.876	26.104	-0.825	1.00	0.00	H
ATOM	1469	HG	LEU	164	64.166	23.961	0.901	1.00	0.00	H
ATOM	1470	1HD1	LEU	164	64.412	25.711	2.635	1.00	0.00	H
ATOM	1471	2HD1	LEU	164	65.373	26.085	1.216	1.00	0.00	H
ATOM	1472	3HD1	LEU	164	63.858	26.939	1.501	1.00	0.00	H
ATOM	1473	1HD2	LEU	164	62.263	24.393	2.440	1.00	0.00	H
ATOM	1474	2HD2	LEU	164	61.585	25.557	1.304	1.00	0.00	H
ATOM	1475	3HD2	LEU	164	61.684	23.851	0.882	1.00	0.00	H
ATOM	1476	N	LEU	165	63.666	24.032	-4.074	1.00	132.12	N
ATOM	1477	CA	LEU	165	63.342	24.184	-5.489	1.00	132.12	C
ATOM	1478	C	LEU	165	62.455	22.985	-5.866	1.00	132.12	C
ATOM	1479	O	LEU	165	61.386	23.188	-6.435	1.00	132.12	O
ATOM	1480	CB	LEU	165	64.643	24.216	-6.328	1.00	132.12	C
ATOM	1481	CG	LEU	165	64.465	24.460	-7.844	1.00	132.12	C
ATOM	1482	CD1	LEU	165	63.812	25.816	-8.162	1.00	132.12	C
ATOM	1483	CD2	LEU	165	65.810	24.328	-8.573	1.00	132.12	C
ATOM	1484	H	LEU	165	64.177	23.204	-3.805	1.00	0.00	H
ATOM	1485	HA	LEU	165	62.779	25.103	-5.655	1.00	0.00	H
ATOM	1486	2HB	LEU	165	65.296	24.991	-5.926	1.00	0.00	H
ATOM	1487	HB3	LEU	165	65.185	23.282	-6.197	1.00	0.00	H
ATOM	1488	HG	LEU	165	63.814	23.686	-8.244	1.00	0.00	H
ATOM	1489	1HD1	LEU	165	63.749	25.977	-9.239	1.00	0.00	H
ATOM	1490	2HD1	LEU	165	62.792	25.872	-7.780	1.00	0.00	H
ATOM	1491	3HD1	LEU	165	64.377	26.643	-7.733	1.00	0.00	H
ATOM	1492	1HD2	LEU	165	65.687	24.444	-9.651	1.00	0.00	H
ATOM	1493	2HD2	LEU	165	66.520	25.084	-8.235	1.00	0.00	H
ATOM	1494	3HD2	LEU	165	66.259	23.350	-8.401	1.00	0.00	H
ATOM	1495	N	GLY	166	62.860	21.754	-5.506	1.00	38.81	N
ATOM	1496	CA	GLY	166	62.104	20.495	-5.404	1.00	38.81	C
ATOM	1497	C	GLY	166	60.603	20.640	-5.122	1.00	38.81	C
ATOM	1498	O	GLY	166	59.759	20.104	-5.844	1.00	38.81	O
ATOM	1499	H	GLY	166	63.803	21.687	-5.122	1.00	0.00	H
ATOM	1500	2HA	GLY	166	62.253	19.905	-6.308	1.00	0.00	H
ATOM	1501	HA3	GLY	166	62.542	19.908	-4.596	1.00	0.00	H
ATOM	1502	N	SER	167	60.286	21.422	-4.084	1.00	54.63	N

ATOM	1503	CA	SER	167	58.952	21.786	-3.622	1.00	54.63	C
ATOM	1504	C	SER	167	58.062	22.494	-4.671	1.00	54.63	C
ATOM	1505	O	SER	167	56.838	22.444	-4.553	1.00	54.63	O
ATOM	1506	CB	SER	167	59.111	22.637	-2.348	1.00	54.63	C
ATOM	1507	OG	SER	167	59.865	23.806	-2.614	1.00	54.63	O
ATOM	1508	H	SER	167	61.050	21.827	-3.554	1.00	0.00	H
ATOM	1509	HA	SER	167	58.460	20.861	-3.329	1.00	0.00	H
ATOM	1510	2HB	SER	167	58.128	22.921	-1.965	1.00	0.00	H
ATOM	1511	HB3	SER	167	59.603	22.063	-1.561	1.00	0.00	H
ATOM	1512	HG	SER	167	59.680	24.460	-1.956	1.00	0.00	H
ATOM	1513	N	VAL	168	58.647	23.111	-5.705	1.00	123.63	N
ATOM	1514	CA	VAL	168	57.955	23.914	-6.711	1.00	123.63	C
ATOM	1515	C	VAL	168	58.264	23.445	-8.144	1.00	123.63	C
ATOM	1516	O	VAL	168	57.380	23.502	-8.992	1.00	123.63	O
ATOM	1517	CB	VAL	168	58.139	25.430	-6.416	1.00	123.63	C
ATOM	1518	CG1	VAL	168	59.612	25.878	-6.359	1.00	123.63	C
ATOM	1519	CG2	VAL	168	57.329	26.330	-7.366	1.00	123.63	C
ATOM	1520	H	VAL	168	59.663	23.110	-5.735	1.00	0.00	H
ATOM	1521	HA	VAL	168	56.888	23.729	-6.611	1.00	0.00	H
ATOM	1522	HB	VAL	168	57.725	25.601	-5.420	1.00	0.00	H
ATOM	1523	1HG1	VAL	168	59.689	26.948	-6.168	1.00	0.00	H
ATOM	1524	2HG1	VAL	168	60.151	25.377	-5.554	1.00	0.00	H
ATOM	1525	3HG1	VAL	168	60.133	25.671	-7.295	1.00	0.00	H
ATOM	1526	1HG2	VAL	168	57.367	27.373	-7.053	1.00	0.00	H
ATOM	1527	2HG2	VAL	168	57.702	26.280	-8.390	1.00	0.00	H
ATOM	1528	3HG2	VAL	168	56.278	26.036	-7.386	1.00	0.00	H
ATOM	1529	N	ILE	169	59.467	22.912	-8.403	1.00	170.80	N
ATOM	1530	CA	ILE	169	59.886	22.361	-9.700	1.00	170.80	C
ATOM	1531	C	ILE	169	59.414	20.893	-9.860	1.00	170.80	C
ATOM	1532	O	ILE	169	59.693	20.256	-10.874	1.00	170.80	O
ATOM	1533	CB	ILE	169	61.445	22.479	-9.782	1.00	170.80	C
ATOM	1534	CG2	ILE	169	62.199	21.361	-9.032	1.00	170.80	C
ATOM	1535	CG1	ILE	169	61.988	22.590	-11.223	1.00	170.80	C
ATOM	1536	CD1	ILE	169	61.669	23.929	-11.905	1.00	170.80	C
ATOM	1537	H	ILE	169	60.162	22.924	-7.660	1.00	0.00	H
ATOM	1538	HA	ILE	169	59.420	22.945	-10.495	1.00	0.00	H
ATOM	1539	HB	ILE	169	61.718	23.413	-9.290	1.00	0.00	H
ATOM	1540	1HG2	ILE	169	63.251	21.601	-8.891	1.00	0.00	H
ATOM	1541	2HG2	ILE	169	61.758	21.191	-8.056	1.00	0.00	H
ATOM	1542	3HG2	ILE	169	62.157	20.413	-9.562	1.00	0.00	H
ATOM	1543	2HG1	ILE	169	63.073	22.480	-11.205	1.00	0.00	H
ATOM	1544	HG13	ILE	169	61.619	21.764	-11.831	1.00	0.00	H
ATOM	1545	1HD1	ILE	169	62.157	23.992	-12.878	1.00	0.00	H
ATOM	1546	2HD1	ILE	169	60.599	24.054	-12.074	1.00	0.00	H
ATOM	1547	3HD1	ILE	169	62.016	24.773	-11.308	1.00	0.00	H
ATOM	1548	N	PHE	170	58.737	20.340	-8.847	1.00	151.63	N
ATOM	1549	CA	PHE	170	58.089	19.040	-8.890	1.00	151.63	C
ATOM	1550	C	PHE	170	56.802	19.065	-8.069	1.00	151.63	C
ATOM	1551	O	PHE	170	55.721	18.869	-8.620	1.00	151.63	O
ATOM	1552	CB	PHE	170	59.051	17.889	-8.519	1.00	151.63	C
ATOM	1553	CG	PHE	170	58.509	16.510	-8.865	1.00	151.63	C
ATOM	1554	CD1	PHE	170	58.921	15.871	-10.051	1.00	151.63	C
ATOM	1555	CD2	PHE	170	57.545	15.887	-8.045	1.00	151.63	C
ATOM	1556	CE1	PHE	170	58.377	14.626	-10.419	1.00	151.63	C
ATOM	1557	CE2	PHE	170	56.976	14.659	-8.431	1.00	151.63	C
ATOM	1558	CZ	PHE	170	57.405	14.017	-9.606	1.00	151.63	C

ATOM	1559	H	PHE	170	58.559	20.931	-8.051	1.00	0.00	H
ATOM	1560	HA	PHE	170	57.774	18.870	-9.923	1.00	0.00	H
ATOM	1561	2HB	PHE	170	60.000	18.027	-9.032	1.00	0.00	H
ATOM	1562	HB3	PHE	170	59.292	17.917	-7.456	1.00	0.00	H
ATOM	1563	HD1	PHE	170	59.642	16.340	-10.698	1.00	0.00	H
ATOM	1564	HD2	PHE	170	57.201	16.364	-7.139	1.00	0.00	H
ATOM	1565	HE1	PHE	170	58.698	14.146	-11.331	1.00	0.00	H
ATOM	1566	HE2	PHE	170	56.193	14.215	-7.837	1.00	0.00	H
ATOM	1567	HZ	PHE	170	56.969	13.073	-9.895	1.00	0.00	H
ATOM	1568	N	VAL	171	56.914	19.249	-6.745	1.00	61.60	N
ATOM	1569	CA	VAL	171	55.834	18.938	-5.803	1.00	61.60	C
ATOM	1570	C	VAL	171	54.584	19.824	-6.004	1.00	61.60	C
ATOM	1571	O	VAL	171	53.483	19.272	-6.027	1.00	61.60	O
ATOM	1572	CB	VAL	171	56.366	18.962	-4.346	1.00	61.60	C
ATOM	1573	CG1	VAL	171	55.296	18.643	-3.292	1.00	61.60	C
ATOM	1574	CG2	VAL	171	57.558	18.004	-4.140	1.00	61.60	C
ATOM	1575	H	VAL	171	57.837	19.434	-6.366	1.00	0.00	H
ATOM	1576	HA	VAL	171	55.518	17.915	-6.015	1.00	0.00	H
ATOM	1577	HB	VAL	171	56.699	19.972	-4.140	1.00	0.00	H
ATOM	1578	1HG1	VAL	171	55.718	18.670	-2.288	1.00	0.00	H
ATOM	1579	2HG1	VAL	171	54.479	19.366	-3.299	1.00	0.00	H
ATOM	1580	3HG1	VAL	171	54.867	17.654	-3.448	1.00	0.00	H
ATOM	1581	1HG2	VAL	171	57.944	18.074	-3.122	1.00	0.00	H
ATOM	1582	2HG2	VAL	171	57.266	16.968	-4.311	1.00	0.00	H
ATOM	1583	3HG2	VAL	171	58.391	18.220	-4.806	1.00	0.00	H
ATOM	1584	N	TYR	172	54.734	21.148	-6.200	1.00	145.44	N
ATOM	1585	CA	TYR	172	53.611	22.053	-6.494	1.00	145.44	C
ATOM	1586	C	TYR	172	52.885	21.652	-7.794	1.00	145.44	C
ATOM	1587	O	TYR	172	51.682	21.405	-7.783	1.00	145.44	O
ATOM	1588	CB	TYR	172	54.027	23.544	-6.539	1.00	145.44	C
ATOM	1589	CG	TYR	172	52.858	24.460	-6.884	1.00	145.44	C
ATOM	1590	CD1	TYR	172	51.650	24.360	-6.158	1.00	145.44	C
ATOM	1591	CD2	TYR	172	52.908	25.273	-8.038	1.00	145.44	C
ATOM	1592	CE1	TYR	172	50.476	24.954	-6.652	1.00	145.44	C
ATOM	1593	CE2	TYR	172	51.736	25.898	-8.511	1.00	145.44	C
ATOM	1594	CZ	TYR	172	50.512	25.694	-7.846	1.00	145.44	C
ATOM	1595	OH	TYR	172	49.352	26.154	-8.388	1.00	145.44	O
ATOM	1596	H	TYR	172	55.650	21.552	-6.060	1.00	0.00	H
ATOM	1597	HA	TYR	172	52.913	21.946	-5.668	1.00	0.00	H
ATOM	1598	2HB	TYR	172	54.446	23.854	-5.581	1.00	0.00	H
ATOM	1599	HB3	TYR	172	54.803	23.682	-7.291	1.00	0.00	H
ATOM	1600	HD1	TYR	172	51.570	23.736	-5.281	1.00	0.00	H
ATOM	1601	HD2	TYR	172	53.816	25.357	-8.616	1.00	0.00	H
ATOM	1602	HE1	TYR	172	49.529	24.779	-6.158	1.00	0.00	H
ATOM	1603	HE2	TYR	172	51.753	26.465	-9.430	1.00	0.00	H
ATOM	1604	HH	TYR	172	48.670	25.450	-8.331	1.00	0.00	H
ATOM	1605	N	SER	173	53.630	21.469	-8.889	1.00	65.47	N
ATOM	1606	CA	SER	173	53.126	20.994	-10.177	1.00	65.47	C
ATOM	1607	C	SER	173	52.560	19.555	-10.151	1.00	65.47	C
ATOM	1608	O	SER	173	52.030	19.099	-11.162	1.00	65.47	O
ATOM	1609	CB	SER	173	54.269	21.153	-11.205	1.00	65.47	C
ATOM	1610	OG	SER	173	55.518	20.728	-10.677	1.00	65.47	O
ATOM	1611	H	SER	173	54.626	21.637	-8.864	1.00	0.00	H
ATOM	1612	HA	SER	173	52.297	21.638	-10.481	1.00	0.00	H
ATOM	1613	2HB	SER	173	54.050	20.601	-12.121	1.00	0.00	H
ATOM	1614	HB3	SER	173	54.362	22.200	-11.496	1.00	0.00	H

ATOM	1615	HG	SER	173	55.416	19.862	-10.292	1.00	0.00		H
ATOM	1616	N	PHE	174	52.643	18.854	-9.009	1.00	156.07		N
ATOM	1617	CA	PHE	174	52.084	17.529	-8.799	1.00	156.07		C
ATOM	1618	C	PHE	174	50.846	17.545	-7.889	1.00	156.07		C
ATOM	1619	O	PHE	174	49.969	16.726	-8.129	1.00	156.07		O
ATOM	1620	CB	PHE	174	53.161	16.539	-8.305	1.00	156.07		C
ATOM	1621	CG	PHE	174	53.744	15.702	-9.436	1.00	156.07		C
ATOM	1622	CD1	PHE	174	54.506	16.312	-10.455	1.00	156.07		C
ATOM	1623	CD2	PHE	174	53.473	14.319	-9.511	1.00	156.07		C
ATOM	1624	CE1	PHE	174	54.979	15.553	-11.543	1.00	156.07		C
ATOM	1625	CE2	PHE	174	53.948	13.558	-10.596	1.00	156.07		C
ATOM	1626	CZ	PHE	174	54.697	14.176	-11.617	1.00	156.07		C
ATOM	1627	H	PHE	174	53.077	19.310	-8.219	1.00	0.00		H
ATOM	1628	HA	PHE	174	51.741	17.135	-9.752	1.00	0.00		H
ATOM	1629	2HB	PHE	174	53.967	17.057	-7.787	1.00	0.00		H
ATOM	1630	HB3	PHE	174	52.735	15.854	-7.569	1.00	0.00		H
ATOM	1631	HD1	PHE	174	54.714	17.370	-10.419	1.00	0.00		H
ATOM	1632	HD2	PHE	174	52.879	13.838	-8.749	1.00	0.00		H
ATOM	1633	HE1	PHE	174	55.556	16.033	-12.320	1.00	0.00		H
ATOM	1634	HE2	PHE	174	53.727	12.503	-10.648	1.00	0.00		H
ATOM	1635	HZ	PHE	174	55.058	13.595	-12.452	1.00	0.00		H
ATOM	1636	N	ILE	175	50.689	18.441	-6.898	1.00	94.72		N
ATOM	1637	CA	ILE	175	49.487	18.472	-6.039	1.00	94.72		C
ATOM	1638	C	ILE	175	48.211	18.846	-6.827	1.00	94.72		C
ATOM	1639	O	ILE	175	47.218	18.115	-6.764	1.00	94.72		O
ATOM	1640	CB	ILE	175	49.693	19.333	-4.754	1.00	94.72		C
ATOM	1641	CG2	ILE	175	50.319	20.710	-5.010	1.00	94.72		C
ATOM	1642	CG1	ILE	175	48.411	19.442	-3.894	1.00	94.72		C
ATOM	1643	CD1	ILE	175	48.641	20.042	-2.504	1.00	94.72		C
ATOM	1644	H	ILE	175	51.389	19.162	-6.769	1.00	0.00		H
ATOM	1645	HA	ILE	175	49.322	17.450	-5.696	1.00	0.00		H
ATOM	1646	HB	ILE	175	50.420	18.792	-4.149	1.00	0.00		H
ATOM	1647	1HG2	ILE	175	50.486	21.272	-4.094	1.00	0.00		H
ATOM	1648	2HG2	ILE	175	51.291	20.583	-5.467	1.00	0.00		H
ATOM	1649	3HG2	ILE	175	49.710	21.330	-5.667	1.00	0.00		H
ATOM	1650	2HG1	ILE	175	47.656	20.043	-4.407	1.00	0.00		H
ATOM	1651	HG13	ILE	175	47.980	18.449	-3.774	1.00	0.00		H
ATOM	1652	1HD1	ILE	175	47.764	19.901	-1.873	1.00	0.00		H
ATOM	1653	2HD1	ILE	175	49.496	19.577	-2.017	1.00	0.00		H
ATOM	1654	3HD1	ILE	175	48.826	21.114	-2.561	1.00	0.00		H
ATOM	1655	N	ASP	176	48.265	19.928	-7.615	1.00	43.96		N
ATOM	1656	CA	ASP	176	47.147	20.443	-8.421	1.00	43.96		C
ATOM	1657	C	ASP	176	46.847	19.512	-9.613	1.00	43.96		C
ATOM	1658	O	ASP	176	45.718	19.447	-10.099	1.00	43.96		O
ATOM	1659	CB	ASP	176	47.457	21.867	-8.957	1.00	43.96		C
ATOM	1660	CG	ASP	176	47.663	22.960	-7.902	1.00	43.96		C
ATOM	1661	OD1	ASP	176	47.777	22.626	-6.704	1.00	43.96		O
ATOM	1662	OD2	ASP	176	47.737	24.140	-8.313	1.00	43.96		O1-
ATOM	1663	H	ASP	176	49.037	20.571	-7.477	1.00	0.00		H
ATOM	1664	HA	ASP	176	46.256	20.494	-7.791	1.00	0.00		H
ATOM	1665	2HB	ASP	176	48.347	21.850	-9.585	1.00	0.00		H
ATOM	1666	HB3	ASP	176	46.639	22.201	-9.597	1.00	0.00		H
ATOM	1667	N	PHE	177	47.852	18.732	-10.039	1.00	71.98		N
ATOM	1668	CA	PHE	177	47.730	17.604	-10.962	1.00	71.98		C
ATOM	1669	C	PHE	177	47.010	16.441	-10.255	1.00	71.98		C
ATOM	1670	O	PHE	177	45.968	16.003	-10.743	1.00	71.98		O

ATOM	1671	CB	PHE	177	49.146	17.200	-11.460	1.00	71.98	C
ATOM	1672	CG	PHE	177	49.399	15.742	-11.843	1.00	71.98	C
ATOM	1673	CD1	PHE	177	48.888	15.223	-13.047	1.00	71.98	C
ATOM	1674	CD2	PHE	177	50.146	14.897	-10.993	1.00	71.98	C
ATOM	1675	CE1	PHE	177	49.120	13.878	-13.396	1.00	71.98	C
ATOM	1676	CE2	PHE	177	50.375	13.553	-11.339	1.00	71.98	C
ATOM	1677	CZ	PHE	177	49.862	13.040	-12.542	1.00	71.98	C
ATOM	1678	H	PHE	177	48.724	18.859	-9.549	1.00	0.00	H
ATOM	1679	HA	PHE	177	47.127	17.901	-11.822	1.00	0.00	H
ATOM	1680	2HB	PHE	177	49.401	17.819	-12.321	1.00	0.00	H
ATOM	1681	HB3	PHE	177	49.877	17.472	-10.709	1.00	0.00	H
ATOM	1682	HD1	PHE	177	48.315	15.863	-13.699	1.00	0.00	H
ATOM	1683	HD2	PHE	177	50.549	15.259	-10.061	1.00	0.00	H
ATOM	1684	HE1	PHE	177	48.724	13.480	-14.316	1.00	0.00	H
ATOM	1685	HE2	PHE	177	50.947	12.920	-10.675	1.00	0.00	H
ATOM	1686	HZ	PHE	177	50.035	12.006	-12.801	1.00	0.00	H
ATOM	1687	N	HIS	178	47.548	15.961	-9.120	1.00	75.96	N
ATOM	1688	CA	HIS	178	47.175	14.760	-8.361	1.00	75.96	C
ATOM	1689	C	HIS	178	45.674	14.544	-8.177	1.00	75.96	C
ATOM	1690	O	HIS	178	45.200	13.436	-8.410	1.00	75.96	O
ATOM	1691	ND1	HIS	178	50.170	14.190	-5.939	1.00	75.96	N
ATOM	1692	CG	HIS	178	49.251	13.998	-6.960	1.00	75.96	C
ATOM	1693	CB	HIS	178	47.908	14.696	-6.996	1.00	75.96	C
ATOM	1694	NE2	HIS	178	51.066	12.666	-7.277	1.00	75.96	N
ATOM	1695	CD2	HIS	178	49.825	13.057	-7.787	1.00	75.96	C
ATOM	1696	CE1	HIS	178	51.210	13.393	-6.178	1.00	75.96	C
ATOM	1697	H	HIS	178	48.406	16.407	-8.798	1.00	0.00	H
ATOM	1698	HA	HIS	178	47.504	13.916	-8.969	1.00	0.00	H
ATOM	1699	HD1	HIS	178	50.122	14.852	-5.156	1.00	0.00	H
ATOM	1700	2HB	HIS	178	48.020	15.698	-6.590	1.00	0.00	H
ATOM	1701	HB3	HIS	178	47.288	14.170	-6.270	1.00	0.00	H
ATOM	1702	HD2	HIS	178	49.433	12.612	-8.691	1.00	0.00	H
ATOM	1703	HE1	HIS	178	52.084	13.347	-5.545	1.00	0.00	H
ATOM	1704	N	VAL	179	44.940	15.596	-7.788	1.00	99.50	N
ATOM	1705	CA	VAL	179	43.498	15.572	-7.540	1.00	99.50	C
ATOM	1706	C	VAL	179	42.674	15.148	-8.777	1.00	99.50	C
ATOM	1707	O	VAL	179	41.750	14.340	-8.661	1.00	99.50	O
ATOM	1708	CB	VAL	179	43.036	16.947	-6.979	1.00	99.50	C
ATOM	1709	CG1	VAL	179	43.545	17.178	-5.548	1.00	99.50	C
ATOM	1710	CG2	VAL	179	43.424	18.161	-7.849	1.00	99.50	C
ATOM	1711	H	VAL	179	45.426	16.474	-7.648	1.00	0.00	H
ATOM	1712	HA	VAL	179	43.313	14.810	-6.780	1.00	0.00	H
ATOM	1713	HB	VAL	179	41.945	16.924	-6.923	1.00	0.00	H
ATOM	1714	1HG1	VAL	179	43.092	18.067	-5.110	1.00	0.00	H
ATOM	1715	2HG1	VAL	179	43.312	16.336	-4.897	1.00	0.00	H
ATOM	1716	3HG1	VAL	179	44.624	17.330	-5.541	1.00	0.00	H
ATOM	1717	1HG2	VAL	179	43.042	19.088	-7.420	1.00	0.00	H
ATOM	1718	2HG2	VAL	179	44.505	18.275	-7.936	1.00	0.00	H
ATOM	1719	3HG2	VAL	179	43.014	18.094	-8.853	1.00	0.00	H
ATOM	1720	N	PHE	180	43.025	15.669	-9.958	1.00	92.25	N
ATOM	1721	CA	PHE	180	42.295	15.444	-11.204	1.00	92.25	C
ATOM	1722	C	PHE	180	42.993	14.414	-12.104	1.00	92.25	C
ATOM	1723	O	PHE	180	42.330	13.791	-12.929	1.00	92.25	O
ATOM	1724	CB	PHE	180	42.276	16.757	-12.010	1.00	92.25	C
ATOM	1725	CG	PHE	180	41.519	17.923	-11.401	1.00	92.25	C
ATOM	1726	CD1	PHE	180	42.164	19.168	-11.231	1.00	92.25	C

ATOM	1727	CD2 PHE	180	40.165	17.780	-11.027	1.00	92.25	C
ATOM	1728	CE1 PHE	180	41.458	20.260	-10.693	1.00	92.25	C
ATOM	1729	CE2 PHE	180	39.460	18.876	-10.496	1.00	92.25	C
ATOM	1730	CZ PHE	180	40.106	20.116	-10.329	1.00	92.25	C
ATOM	1731	H PHE	180	43.837	16.274	-9.972	1.00	0.00	H
ATOM	1732	HA PHE	180	41.274	15.105	-11.019	1.00	0.00	H
ATOM	1733	2HB PHE	180	43.298	17.074	-12.224	1.00	0.00	H
ATOM	1734	HB3 PHE	180	41.807	16.560	-12.975	1.00	0.00	H
ATOM	1735	HD1 PHE	180	43.208	19.293	-11.489	1.00	0.00	H
ATOM	1736	HD2 PHE	180	39.657	16.831	-11.148	1.00	0.00	H
ATOM	1737	HE1 PHE	180	41.961	21.207	-10.549	1.00	0.00	H
ATOM	1738	HE2 PHE	180	38.423	18.763	-10.210	1.00	0.00	H
ATOM	1739	HZ PHE	180	39.567	20.955	-9.912	1.00	0.00	H
ATOM	1740	N HIS	181	44.323	14.277	-11.998	1.00	281.75	N
ATOM	1741	CA HIS	181	45.228	13.509	-12.866	1.00	281.75	C
ATOM	1742	C HIS	181	45.600	14.299	-14.146	1.00	281.75	C
ATOM	1743	O HIS	181	46.180	13.760	-15.092	1.00	281.75	O
ATOM	1744	ND1 HIS	181	45.283	9.735	-12.363	1.00	281.75	N
ATOM	1745	CG HIS	181	45.685	10.947	-12.890	1.00	281.75	C
ATOM	1746	CB HIS	181	44.708	12.071	-13.118	1.00	281.75	C
ATOM	1747	NE2 HIS	181	47.451	9.531	-12.772	1.00	281.75	N
ATOM	1748	CD2 HIS	181	47.032	10.813	-13.133	1.00	281.75	C
ATOM	1749	CE1 HIS	181	46.356	8.946	-12.300	1.00	281.75	C
ATOM	1750	H HIS	181	44.793	14.836	-11.284	1.00	0.00	H
ATOM	1751	HA HIS	181	46.150	13.433	-12.287	1.00	0.00	H
ATOM	1752	HD1 HIS	181	44.344	9.546	-11.993	1.00	0.00	H
ATOM	1753	2HB HIS	181	43.880	11.859	-12.449	1.00	0.00	H
ATOM	1754	HB3 HIS	181	44.288	11.980	-14.121	1.00	0.00	H
ATOM	1755	HD2 HIS	181	47.720	11.525	-13.557	1.00	0.00	H
ATOM	1756	HE1 HIS	181	46.345	7.939	-11.909	1.00	0.00	H
ATOM	1757	N ARG	182	45.238	15.586	-14.186	1.00	163.39	N
ATOM	1758	CA ARG	182	45.146	16.446	-15.362	1.00	163.39	C
ATOM	1759	C ARG	182	46.489	17.168	-15.584	1.00	163.39	C
ATOM	1760	O ARG	182	47.008	17.798	-14.666	1.00	163.39	O
ATOM	1761	CB ARG	182	44.020	17.463	-15.043	1.00	163.39	C
ATOM	1762	CG ARG	182	43.535	18.318	-16.226	1.00	163.39	C
ATOM	1763	CD ARG	182	42.328	19.244	-15.959	1.00	163.39	C
ATOM	1764	NE ARG	182	41.387	18.732	-14.945	1.00	163.39	N
ATOM	1765	CZ ARG	182	40.363	17.885	-15.146	1.00	163.39	C
ATOM	1766	NH1 ARG	182	40.115	17.334	-16.329	1.00	163.39	N
ATOM	1767	NH2 ARG	182	39.574	17.570	-14.122	1.00	163.39	N1+
ATOM	1768	H ARG	182	44.909	15.969	-13.313	1.00	0.00	H
ATOM	1769	HA ARG	182	44.876	15.847	-16.235	1.00	0.00	H
ATOM	1770	2HB ARG	182	43.163	16.883	-14.707	1.00	0.00	H
ATOM	1771	HB3 ARG	182	44.309	18.114	-14.216	1.00	0.00	H
ATOM	1772	2HG ARG	182	44.360	18.936	-16.581	1.00	0.00	H
ATOM	1773	HG3 ARG	182	43.272	17.656	-17.046	1.00	0.00	H
ATOM	1774	2HD ARG	182	42.695	20.204	-15.595	1.00	0.00	H
ATOM	1775	HD3 ARG	182	41.797	19.460	-16.888	1.00	0.00	H
ATOM	1776	HE ARG	182	41.506	19.125	-14.021	1.00	0.00	H
ATOM	1777	2HH1 ARG	182	39.258	16.706	-16.403	1.00	0.00	H
ATOM	1778	1HH1 ARG	182	40.651	17.416	-17.196	1.00	0.00	H
ATOM	1779	2HH2 ARG	182	38.845	16.807	-14.229	1.00	0.00	H
ATOM	1780	1HH2 ARG	182	39.646	17.952	-13.195	1.00	0.00	H
ATOM	1781	N LYS	183	47.057	17.053	-16.792	1.00	92.31	N
ATOM	1782	CA LYS	183	48.304	17.683	-17.240	1.00	92.31	C

ATOM	1783	C	LYS	183	48.229	17.921	-18.757	1.00	92.31	C
ATOM	1784	O	LYS	183	47.647	17.101	-19.465	1.00	92.31	O
ATOM	1785	CB	LYS	183	49.567	16.943	-16.728	1.00	92.31	C
ATOM	1786	CG	LYS	183	49.493	15.413	-16.499	1.00	92.31	C
ATOM	1787	CD	LYS	183	49.581	14.513	-17.744	1.00	92.31	C
ATOM	1788	CE	LYS	183	48.228	14.082	-18.333	1.00	92.31	C
ATOM	1789	NZ	LYS	183	47.426	13.239	-17.433	1.00	92.31	N1+
ATOM	1790	H	LYS	183	46.548	16.585	-17.528	1.00	0.00	H
ATOM	1791	HA	LYS	183	48.328	18.684	-16.801	1.00	0.00	H
ATOM	1792	2HB	LYS	183	50.424	17.187	-17.359	1.00	0.00	H
ATOM	1793	HB3	LYS	183	49.805	17.384	-15.757	1.00	0.00	H
ATOM	1794	2HG	LYS	183	50.351	15.164	-15.872	1.00	0.00	H
ATOM	1795	HG3	LYS	183	48.627	15.157	-15.894	1.00	0.00	H
ATOM	1796	2HD	LYS	183	50.166	15.023	-18.512	1.00	0.00	H
ATOM	1797	HD3	LYS	183	50.151	13.617	-17.495	1.00	0.00	H
ATOM	1798	2HE	LYS	183	47.615	14.938	-18.579	1.00	0.00	H
ATOM	1799	HE3	LYS	183	48.379	13.539	-19.267	1.00	0.00	H
ATOM	1800	1HZ	LYS	183	47.780	12.297	-17.348	1.00	0.00	H
ATOM	1801	2HZ	LYS	183	47.245	13.634	-16.514	1.00	0.00	H
ATOM	1802	3HZ	LYS	183	46.507	13.164	-17.875	1.00	0.00	H
ATOM	1803	N	ASP	184	48.720	19.059	-19.254	1.00	89.84	N
ATOM	1804	CA	ASP	184	48.395	19.609	-20.575	1.00	89.84	C
ATOM	1805	C	ASP	184	49.184	18.923	-21.708	1.00	89.84	C
ATOM	1806	O	ASP	184	48.579	18.492	-22.694	1.00	89.84	O
ATOM	1807	CB	ASP	184	48.660	21.145	-20.584	1.00	89.84	C
ATOM	1808	CG	ASP	184	50.110	21.592	-20.403	1.00	89.84	C
ATOM	1809	OD1	ASP	184	50.847	20.862	-19.708	1.00	89.84	O
ATOM	1810	OD2	ASP	184	50.512	22.575	-21.054	1.00	89.84	O1-
ATOM	1811	H	ASP	184	49.355	19.635	-18.709	1.00	0.00	H
ATOM	1812	HA	ASP	184	47.339	19.469	-20.784	1.00	0.00	H
ATOM	1813	2HB	ASP	184	48.305	21.562	-21.527	1.00	0.00	H
ATOM	1814	HB3	ASP	184	48.069	21.629	-19.807	1.00	0.00	H
ATOM	1815	N	SER	185	50.514	18.882	-21.607	1.00	202.40	N
ATOM	1816	CA	SER	185	51.422	18.718	-22.730	1.00	202.40	C
ATOM	1817	C	SER	185	52.837	18.346	-22.239	1.00	202.40	C
ATOM	1818	O	SER	185	53.092	18.155	-21.045	1.00	202.40	O
ATOM	1819	CB	SER	185	51.314	19.989	-23.628	1.00	202.40	C
ATOM	1820	OG	SER	185	52.330	20.158	-24.603	1.00	202.40	O
ATOM	1821	H	SER	185	50.896	19.366	-20.787	1.00	0.00	H
ATOM	1822	HA	SER	185	51.085	17.859	-23.314	1.00	0.00	H
ATOM	1823	2HB	SER	185	50.356	19.993	-24.149	1.00	0.00	H
ATOM	1824	HB3	SER	185	51.312	20.884	-23.005	1.00	0.00	H
ATOM	1825	HG	SER	185	52.831	20.918	-24.301	1.00	0.00	H
ATOM	1826	N	ARG	186	53.770	18.215	-23.194	1.00	134.83	N
ATOM	1827	CA	ARG	186	55.168	17.806	-23.036	1.00	134.83	C
ATOM	1828	C	ARG	186	55.942	18.666	-22.019	1.00	134.83	C
ATOM	1829	O	ARG	186	56.787	18.161	-21.281	1.00	134.83	O
ATOM	1830	CB	ARG	186	55.887	17.856	-24.396	1.00	134.83	C
ATOM	1831	CG	ARG	186	55.300	16.959	-25.502	1.00	134.83	C
ATOM	1832	CD	ARG	186	56.308	16.825	-26.652	1.00	134.83	C
ATOM	1833	NE	ARG	186	55.818	16.034	-27.795	1.00	134.83	N
ATOM	1834	CZ	ARG	186	56.605	15.353	-28.645	1.00	134.83	C
ATOM	1835	NH1	ARG	186	57.913	15.290	-28.434	1.00	134.83	N
ATOM	1836	NH2	ARG	186	56.107	14.741	-29.717	1.00	134.83	N1+
ATOM	1837	H	ARG	186	53.463	18.539	-24.107	1.00	0.00	H
ATOM	1838	HA	ARG	186	55.172	16.777	-22.685	1.00	0.00	H

ATOM	1839	2HB	ARG	186	55.935	18.885	-24.758	1.00	0.00	H
ATOM	1840	HB3	ARG	186	56.922	17.561	-24.227	1.00	0.00	H
ATOM	1841	2HG	ARG	186	55.075	15.969	-25.102	1.00	0.00	H
ATOM	1842	HG3	ARG	186	54.359	17.376	-25.863	1.00	0.00	H
ATOM	1843	2HD	ARG	186	56.608	17.808	-27.019	1.00	0.00	H
ATOM	1844	HD3	ARG	186	57.200	16.351	-26.244	1.00	0.00	H
ATOM	1845	HE	ARG	186	54.798	16.065	-27.944	1.00	0.00	H
ATOM	1846	2HH1	ARG	186	58.537	14.695	-29.052	1.00	0.00	H
ATOM	1847	1HH1	ARG	186	58.396	15.902	-27.779	1.00	0.00	H
ATOM	1848	2HH2	ARG	186	56.781	14.354	-30.427	1.00	0.00	H
ATOM	1849	1HH2	ARG	186	55.137	14.770	-29.985	1.00	0.00	H
ATOM	1850	N	ASN	187	55.611	19.960	-21.982	1.00	79.23	N
ATOM	1851	CA	ASN	187	56.076	20.993	-21.056	1.00	79.23	C
ATOM	1852	C	ASN	187	55.874	20.668	-19.567	1.00	79.23	C
ATOM	1853	O	ASN	187	56.680	21.121	-18.760	1.00	79.23	O
ATOM	1854	CB	ASN	187	55.497	22.386	-21.416	1.00	79.23	C
ATOM	1855	CG	ASN	187	54.014	22.372	-21.784	1.00	79.23	C
ATOM	1856	OD1	ASN	187	53.678	21.920	-22.878	1.00	79.23	O
ATOM	1857	ND2	ASN	187	53.142	22.807	-20.887	1.00	79.23	N
ATOM	1858	H	ASN	187	54.863	20.250	-22.603	1.00	0.00	H
ATOM	1859	HA	ASN	187	57.152	21.063	-21.198	1.00	0.00	H
ATOM	1860	2HB	ASN	187	55.678	23.100	-20.611	1.00	0.00	H
ATOM	1861	HB3	ASN	187	56.035	22.780	-22.279	1.00	0.00	H
ATOM	1862	2HD2	ASN	187	52.113	22.712	-21.050	1.00	0.00	H
ATOM	1863	1HD2	ASN	187	53.413	23.119	-19.972	1.00	0.00	H
ATOM	1864	N	VAL	188	54.858	19.874	-19.198	1.00	56.85	N
ATOM	1865	CA	VAL	188	54.694	19.366	-17.833	1.00	56.85	C
ATOM	1866	C	VAL	188	55.338	17.969	-17.721	1.00	56.85	C
ATOM	1867	O	VAL	188	56.005	17.688	-16.723	1.00	56.85	O
ATOM	1868	CB	VAL	188	53.186	19.361	-17.454	1.00	56.85	C
ATOM	1869	CG1	VAL	188	52.860	18.587	-16.159	1.00	56.85	C
ATOM	1870	CG2	VAL	188	52.687	20.809	-17.294	1.00	56.85	C
ATOM	1871	H	VAL	188	54.188	19.572	-19.895	1.00	0.00	H
ATOM	1872	HA	VAL	188	55.201	20.017	-17.121	1.00	0.00	H
ATOM	1873	HB	VAL	188	52.619	18.900	-18.265	1.00	0.00	H
ATOM	1874	1HG1	VAL	188	51.820	18.733	-15.865	1.00	0.00	H
ATOM	1875	2HG1	VAL	188	53.010	17.513	-16.271	1.00	0.00	H
ATOM	1876	3HG1	VAL	188	53.480	18.926	-15.327	1.00	0.00	H
ATOM	1877	1HG2	VAL	188	51.613	20.839	-17.107	1.00	0.00	H
ATOM	1878	2HG2	VAL	188	53.183	21.317	-16.467	1.00	0.00	H
ATOM	1879	3HG2	VAL	188	52.865	21.397	-18.194	1.00	0.00	H
ATOM	1880	N	PHE	189	55.196	17.101	-18.739	1.00	121.99	N
ATOM	1881	CA	PHE	189	55.733	15.731	-18.737	1.00	121.99	C
ATOM	1882	C	PHE	189	57.255	15.636	-18.506	1.00	121.99	C
ATOM	1883	O	PHE	189	57.705	14.670	-17.892	1.00	121.99	O
ATOM	1884	CB	PHE	189	55.364	14.972	-20.031	1.00	121.99	C
ATOM	1885	CG	PHE	189	53.966	14.376	-20.089	1.00	121.99	C
ATOM	1886	CD1	PHE	189	53.628	13.294	-19.248	1.00	121.99	C
ATOM	1887	CD2	PHE	189	53.020	14.846	-21.024	1.00	121.99	C
ATOM	1888	CE1	PHE	189	52.361	12.687	-19.347	1.00	121.99	C
ATOM	1889	CE2	PHE	189	51.748	14.249	-21.116	1.00	121.99	C
ATOM	1890	CZ	PHE	189	51.422	13.165	-20.280	1.00	121.99	C
ATOM	1891	H	PHE	189	54.623	17.393	-19.521	1.00	0.00	H
ATOM	1892	HA	PHE	189	55.275	15.213	-17.893	1.00	0.00	H
ATOM	1893	2HB	PHE	189	55.542	15.609	-20.894	1.00	0.00	H
ATOM	1894	HB3	PHE	189	56.042	14.128	-20.168	1.00	0.00	H

ATOM	1895	HD1 PHE	189	54.349	12.909	-18.540	1.00	0.00	H
ATOM	1896	HD2 PHE	189	53.271	15.653	-21.693	1.00	0.00	H
ATOM	1897	HE1 PHE	189	52.112	11.841	-18.722	1.00	0.00	H
ATOM	1898	HE2 PHE	189	51.034	14.614	-21.842	1.00	0.00	H
ATOM	1899	HZ PHE	189	50.460	12.682	-20.363	1.00	0.00	H
ATOM	1900	N LEU	190	58.048	16.627	-18.945	1.00147.80		N
ATOM	1901	CA LEU	190	59.504	16.674	-18.744	1.00147.80		C
ATOM	1902	C LEU	190	59.936	16.672	-17.262	1.00147.80		C
ATOM	1903	O LEU	190	61.004	16.152	-16.922	1.00147.80		O
ATOM	1904	CB LEU	190	60.121	17.862	-19.519	1.00147.80		C
ATOM	1905	CG LEU	190	59.660	19.295	-19.153	1.00147.80		C
ATOM	1906	CD1 LEU	190	60.529	19.940	-18.058	1.00147.80		C
ATOM	1907	CD2 LEU	190	59.671	20.203	-20.393	1.00147.80		C
ATOM	1908	H LEU	190	57.614	17.378	-19.472	1.00	0.00	H
ATOM	1909	HA LEU	190	59.913	15.760	-19.180	1.00	0.00	H
ATOM	1910	2HB LEU	190	61.205	17.811	-19.423	1.00	0.00	H
ATOM	1911	HB3 LEU	190	59.922	17.681	-20.575	1.00	0.00	H
ATOM	1912	HG LEU	190	58.631	19.258	-18.793	1.00	0.00	H
ATOM	1913	1HD1 LEU	190	60.204	20.962	-17.859	1.00	0.00	H
ATOM	1914	2HD1 LEU	190	60.469	19.412	-17.109	1.00	0.00	H
ATOM	1915	3HD1 LEU	190	61.579	19.982	-18.346	1.00	0.00	H
ATOM	1916	1HD2 LEU	190	59.268	21.187	-20.151	1.00	0.00	H
ATOM	1917	2HD2 LEU	190	60.676	20.353	-20.782	1.00	0.00	H
ATOM	1918	3HD2 LEU	190	59.062	19.787	-21.195	1.00	0.00	H
ATOM	1919	N PHE	191	59.093	17.201	-16.362	1.00	87.64	N
ATOM	1920	CA PHE	191	59.381	17.299	-14.930	1.00	87.64	C
ATOM	1921	C PHE	191	59.315	15.938	-14.217	1.00	87.64	C
ATOM	1922	O PHE	191	59.884	15.828	-13.132	1.00	87.64	O
ATOM	1923	CB PHE	191	58.436	18.309	-14.250	1.00	87.64	C
ATOM	1924	CG PHE	191	58.739	19.746	-14.635	1.00	87.64	C
ATOM	1925	CD1 PHE	191	59.899	20.383	-14.144	1.00	87.64	C
ATOM	1926	CD2 PHE	191	57.874	20.449	-15.497	1.00	87.64	C
ATOM	1927	CE1 PHE	191	60.195	21.705	-14.525	1.00	87.64	C
ATOM	1928	CE2 PHE	191	58.165	21.775	-15.870	1.00	87.64	C
ATOM	1929	CZ PHE	191	59.327	22.404	-15.386	1.00	87.64	C
ATOM	1930	H PHE	191	58.209	17.580	-16.687	1.00	0.00	H
ATOM	1931	HA PHE	191	60.404	17.660	-14.813	1.00	0.00	H
ATOM	1932	2HB PHE	191	57.393	18.071	-14.463	1.00	0.00	H
ATOM	1933	HB3 PHE	191	58.536	18.246	-13.164	1.00	0.00	H
ATOM	1934	HD1 PHE	191	60.562	19.862	-13.468	1.00	0.00	H
ATOM	1935	HD2 PHE	191	56.985	19.974	-15.876	1.00	0.00	H
ATOM	1936	HE1 PHE	191	61.086	22.186	-14.153	1.00	0.00	H
ATOM	1937	HE2 PHE	191	57.495	22.303	-16.534	1.00	0.00	H
ATOM	1938	HZ PHE	191	59.549	23.420	-15.676	1.00	0.00	H
ATOM	1939	N LYS	192	58.760	14.891	-14.863	1.00262.09		N
ATOM	1940	CA LYS	192	58.814	13.473	-14.466	1.00262.09		C
ATOM	1941	C LYS	192	60.243	13.047	-14.087	1.00262.09		C
ATOM	1942	O LYS	192	60.453	12.400	-13.065	1.00262.09		O
ATOM	1943	CB LYS	192	58.239	12.595	-15.614	1.00262.09		C
ATOM	1944	CG LYS	192	58.204	11.057	-15.390	1.00262.09		C
ATOM	1945	CD LYS	192	58.810	10.260	-16.570	1.00262.09		C
ATOM	1946	CE LYS	192	58.937	8.738	-16.318	1.00262.09		C
ATOM	1947	NZ LYS	192	59.948	8.119	-17.194	1.00262.09		N1+
ATOM	1948	H LYS	192	58.352	15.093	-15.769	1.00	0.00	H
ATOM	1949	HA LYS	192	58.186	13.355	-13.581	1.00	0.00	H
ATOM	1950	2HB LYS	192	57.228	12.932	-15.849	1.00	0.00	H

ATOM	1951	HB3	LYS	192	58.822	12.802	-16.513	1.00	0.00	H
ATOM	1952	2HG	LYS	192	58.735	10.794	-14.474	1.00	0.00	H
ATOM	1953	HG3	LYS	192	57.174	10.741	-15.220	1.00	0.00	H
ATOM	1954	2HD	LYS	192	58.225	10.436	-17.474	1.00	0.00	H
ATOM	1955	HD3	LYS	192	59.798	10.672	-16.782	1.00	0.00	H
ATOM	1956	2HE	LYS	192	59.230	8.536	-15.287	1.00	0.00	H
ATOM	1957	HE3	LYS	192	57.976	8.246	-16.471	1.00	0.00	H
ATOM	1958	1HZ	LYS	192	60.013	7.080	-17.108	1.00	0.00	H
ATOM	1959	2HZ	LYS	192	59.828	8.328	-18.172	1.00	0.00	H
ATOM	1960	3HZ	LYS	192	60.889	8.414	-16.941	1.00	0.00	H
ATOM	1961	N	LEU	193	61.213	13.448	-14.918	1.00	161.54	N
ATOM	1962	CA	LEU	193	62.637	13.239	-14.693	1.00	161.54	C
ATOM	1963	C	LEU	193	63.239	14.552	-14.158	1.00	161.54	C
ATOM	1964	O	LEU	193	63.990	14.541	-13.180	1.00	161.54	O
ATOM	1965	CB	LEU	193	63.283	12.869	-16.056	1.00	161.54	C
ATOM	1966	CG	LEU	193	64.495	11.912	-15.999	1.00	161.54	C
ATOM	1967	CD1	LEU	193	64.989	11.585	-17.417	1.00	161.54	C
ATOM	1968	CD2	LEU	193	65.642	12.439	-15.130	1.00	161.54	C
ATOM	1969	H	LEU	193	60.935	14.010	-15.710	1.00	0.00	H
ATOM	1970	HA	LEU	193	62.807	12.445	-13.964	1.00	0.00	H
ATOM	1971	2HB	LEU	193	62.533	12.379	-16.679	1.00	0.00	H
ATOM	1972	HB3	LEU	193	63.558	13.767	-16.605	1.00	0.00	H
ATOM	1973	HG	LEU	193	64.170	10.972	-15.559	1.00	0.00	H
ATOM	1974	1HD1	LEU	193	65.816	10.875	-17.399	1.00	0.00	H
ATOM	1975	2HD1	LEU	193	64.195	11.135	-18.015	1.00	0.00	H
ATOM	1976	3HD1	LEU	193	65.333	12.479	-17.940	1.00	0.00	H
ATOM	1977	1HD2	LEU	193	66.538	11.829	-15.237	1.00	0.00	H
ATOM	1978	2HD2	LEU	193	65.901	13.461	-15.402	1.00	0.00	H
ATOM	1979	3HD2	LEU	193	65.381	12.431	-14.072	1.00	0.00	H
ATOM	1980	N	GLY	194	62.890	15.703	-14.751	1.00	58.87	N
ATOM	1981	CA	GLY	194	63.669	16.933	-14.623	1.00	58.87	C
ATOM	1982	C	GLY	194	63.393	17.733	-13.351	1.00	58.87	C
ATOM	1983	O	GLY	194	64.197	18.592	-12.999	1.00	58.87	O
ATOM	1984	H	GLY	194	62.217	15.678	-15.513	1.00	0.00	H
ATOM	1985	2HA	GLY	194	64.735	16.708	-14.650	1.00	0.00	H
ATOM	1986	HA3	GLY	194	63.460	17.571	-15.483	1.00	0.00	H
ATOM	1987	N	GLY	195	62.351	17.378	-12.592	1.00	119.14	N
ATOM	1988	CA	GLY	195	62.041	18.021	-11.322	1.00	119.14	C
ATOM	1989	C	GLY	195	62.632	17.216	-10.160	1.00	119.14	C
ATOM	1990	O	GLY	195	63.145	17.798	-9.206	1.00	119.14	O
ATOM	1991	H	GLY	195	61.713	16.663	-12.927	1.00	0.00	H
ATOM	1992	2HA	GLY	195	62.396	19.051	-11.297	1.00	0.00	H
ATOM	1993	HA3	GLY	195	60.959	18.066	-11.215	1.00	0.00	H
ATOM	1994	N	VAL	196	62.677	15.880	-10.283	1.00	73.27	N
ATOM	1995	CA	VAL	196	63.311	14.967	-9.322	1.00	73.27	C
ATOM	1996	C	VAL	196	64.850	15.128	-9.361	1.00	73.27	C
ATOM	1997	O	VAL	196	65.531	14.937	-8.350	1.00	73.27	O
ATOM	1998	CB	VAL	196	62.920	13.497	-9.665	1.00	73.27	C
ATOM	1999	CG1	VAL	196	63.333	12.506	-8.559	1.00	73.27	C
ATOM	2000	CG2	VAL	196	61.418	13.324	-9.951	1.00	73.27	C
ATOM	2001	H	VAL	196	62.239	15.466	-11.093	1.00	0.00	H
ATOM	2002	HA	VAL	196	62.955	15.219	-8.321	1.00	0.00	H
ATOM	2003	HB	VAL	196	63.444	13.202	-10.577	1.00	0.00	H
ATOM	2004	1HG1	VAL	196	63.038	11.487	-8.811	1.00	0.00	H
ATOM	2005	2HG1	VAL	196	64.412	12.495	-8.407	1.00	0.00	H
ATOM	2006	3HG1	VAL	196	62.863	12.754	-7.607	1.00	0.00	H

ATOM	2007	1HG2 VAL	196	61.160	12.277	-10.120	1.00	0.00	H
ATOM	2008	2HG2 VAL	196	60.811	13.681	-9.118	1.00	0.00	H
ATOM	2009	3HG2 VAL	196	61.109	13.862	-10.847	1.00	0.00	H
ATOM	2010	N THR	197	65.390	15.511	-10.527	1.00	55.43	N
ATOM	2011	CA THR	197	66.811	15.741	-10.780	1.00	55.43	C
ATOM	2012	C THR	197	67.398	16.854	-9.886	1.00	55.43	C
ATOM	2013	O THR	197	68.559	16.746	-9.484	1.00	55.43	O
ATOM	2014	CB THR	197	67.003	16.063	-12.284	1.00	55.43	C
ATOM	2015	OG1 THR	197	66.629	14.933	-13.045	1.00	55.43	O
ATOM	2016	CG2 THR	197	68.457	16.339	-12.697	1.00	55.43	C
ATOM	2017	H THR	197	64.751	15.623	-11.302	1.00	0.00	H
ATOM	2018	HA THR	197	67.346	14.818	-10.548	1.00	0.00	H
ATOM	2019	HB THR	197	66.383	16.913	-12.576	1.00	0.00	H
ATOM	2020	HG1 THR	197	65.683	14.785	-12.980	1.00	0.00	H
ATOM	2021	1HG2 THR	197	68.539	16.440	-13.777	1.00	0.00	H
ATOM	2022	2HG2 THR	197	68.845	17.256	-12.256	1.00	0.00	H
ATOM	2023	3HG2 THR	197	69.113	15.521	-12.402	1.00	0.00	H
ATOM	2024	N ALA	198	66.603	17.887	-9.555	1.00	40.32	N
ATOM	2025	CA ALA	198	66.997	19.058	-8.770	1.00	40.32	C
ATOM	2026	C ALA	198	67.567	18.663	-7.401	1.00	40.32	C
ATOM	2027	O ALA	198	68.754	18.868	-7.139	1.00	40.32	O
ATOM	2028	CB ALA	198	65.799	20.012	-8.626	1.00	40.32	C
ATOM	2029	H ALA	198	65.637	17.847	-9.855	1.00	0.00	H
ATOM	2030	HA ALA	198	67.787	19.576	-9.318	1.00	0.00	H
ATOM	2031	1HB ALA	198	66.065	20.891	-8.037	1.00	0.00	H
ATOM	2032	2HB ALA	198	65.454	20.363	-9.599	1.00	0.00	H
ATOM	2033	3HB ALA	198	64.952	19.536	-8.130	1.00	0.00	H
ATOM	2034	N SER	199	66.744	18.017	-6.570	1.00	78.11	N
ATOM	2035	CA SER	199	67.111	17.558	-5.237	1.00	78.11	C
ATOM	2036	C SER	199	68.151	16.421	-5.305	1.00	78.11	C
ATOM	2037	O SER	199	69.079	16.397	-4.499	1.00	78.11	O
ATOM	2038	CB SER	199	65.840	17.042	-4.542	1.00	78.11	C
ATOM	2039	OG SER	199	64.771	17.967	-4.641	1.00	78.11	O
ATOM	2040	H SER	199	65.760	17.951	-6.794	1.00	0.00	H
ATOM	2041	HA SER	199	67.521	18.393	-4.667	1.00	0.00	H
ATOM	2042	2HB SER	199	65.509	16.090	-4.960	1.00	0.00	H
ATOM	2043	HB3 SER	199	66.059	16.874	-3.486	1.00	0.00	H
ATOM	2044	HG SER	199	64.237	17.839	-3.853	1.00	0.00	H
ATOM	2045	N PHE	200	68.036	15.509	-6.287	1.00	117.54	N
ATOM	2046	CA PHE	200	68.912	14.347	-6.457	1.00	117.54	C
ATOM	2047	C PHE	200	70.381	14.742	-6.698	1.00	117.54	C
ATOM	2048	O PHE	200	71.258	14.331	-5.934	1.00	117.54	O
ATOM	2049	CB PHE	200	68.389	13.453	-7.605	1.00	117.54	C
ATOM	2050	CG PHE	200	69.280	12.266	-7.941	1.00	117.54	C
ATOM	2051	CD1 PHE	200	69.400	11.194	-7.033	1.00	117.54	C
ATOM	2052	CD2 PHE	200	70.040	12.261	-9.132	1.00	117.54	C
ATOM	2053	CE1 PHE	200	70.270	10.123	-7.312	1.00	117.54	C
ATOM	2054	CE2 PHE	200	70.923	11.197	-9.401	1.00	117.54	C
ATOM	2055	CZ PHE	200	71.035	10.127	-8.494	1.00	117.54	C
ATOM	2056	H PHE	200	67.259	15.615	-6.928	1.00	0.00	H
ATOM	2057	HA PHE	200	68.878	13.769	-5.530	1.00	0.00	H
ATOM	2058	2HB PHE	200	67.400	13.072	-7.346	1.00	0.00	H
ATOM	2059	HB3 PHE	200	68.248	14.052	-8.504	1.00	0.00	H
ATOM	2060	HD1 PHE	200	68.826	11.185	-6.117	1.00	0.00	H
ATOM	2061	HD2 PHE	200	69.973	13.083	-9.829	1.00	0.00	H
ATOM	2062	HE1 PHE	200	70.353	9.302	-6.615	1.00	0.00	H

ATOM	2063	HE2 PHE	200	71.534	11.202	-10.292	1.00	0.00	H
ATOM	2064	HZ PHE	200	71.719	9.316	-8.705	1.00	0.00	H
ATOM	2065	N THR	201	70.645	15.546	-7.740	1.00	118.22	N
ATOM	2066	CA THR	201	71.993	15.960	-8.142	1.00	118.22	C
ATOM	2067	C THR	201	72.678	16.805	-7.047	1.00	118.22	C
ATOM	2068	O THR	201	73.865	16.626	-6.757	1.00	118.22	O
ATOM	2069	CB THR	201	71.929	16.692	-9.506	1.00	118.22	C
ATOM	2070	OG1 THR	201	71.068	17.818	-9.483	1.00	118.22	O
ATOM	2071	CG2 THR	201	71.526	15.775	-10.670	1.00	118.22	C
ATOM	2072	H THR	201	69.865	15.909	-8.277	1.00	0.00	H
ATOM	2073	HA THR	201	72.595	15.060	-8.275	1.00	0.00	H
ATOM	2074	HB THR	201	72.926	17.074	-9.726	1.00	0.00	H
ATOM	2075	HG1 THR	201	70.158	17.525	-9.435	1.00	0.00	H
ATOM	2076	1HG2 THR	201	71.516	16.321	-11.614	1.00	0.00	H
ATOM	2077	2HG2 THR	201	72.235	14.956	-10.783	1.00	0.00	H
ATOM	2078	3HG2 THR	201	70.540	15.337	-10.524	1.00	0.00	H
ATOM	2079	N ALA	202	71.894	17.656	-6.373	1.00	37.37	N
ATOM	2080	CA ALA	202	72.315	18.458	-5.239	1.00	37.37	C
ATOM	2081	C ALA	202	72.644	17.588	-4.018	1.00	37.37	C
ATOM	2082	O ALA	202	73.685	17.801	-3.393	1.00	37.37	O
ATOM	2083	CB ALA	202	71.181	19.419	-4.894	1.00	37.37	C
ATOM	2084	H ALA	202	70.939	17.762	-6.695	1.00	0.00	H
ATOM	2085	HA ALA	202	73.201	19.030	-5.519	1.00	0.00	H
ATOM	2086	1HB ALA	202	71.441	20.047	-4.045	1.00	0.00	H
ATOM	2087	2HB ALA	202	70.964	20.075	-5.737	1.00	0.00	H
ATOM	2088	3HB ALA	202	70.263	18.888	-4.641	1.00	0.00	H
ATOM	2089	N SER	203	71.799	16.596	-3.698	1.00	86.32	N
ATOM	2090	CA SER	203	71.974	15.647	-2.601	1.00	86.32	C
ATOM	2091	C SER	203	73.263	14.826	-2.776	1.00	86.32	C
ATOM	2092	O SER	203	74.146	14.913	-1.922	1.00	86.32	O
ATOM	2093	CB SER	203	70.711	14.765	-2.430	1.00	86.32	C
ATOM	2094	OG SER	203	70.768	13.953	-1.268	1.00	86.32	O
ATOM	2095	H SER	203	70.937	16.513	-4.234	1.00	0.00	H
ATOM	2096	HA SER	203	72.099	16.232	-1.690	1.00	0.00	H
ATOM	2097	2HB SER	203	69.830	15.398	-2.328	1.00	0.00	H
ATOM	2098	HB3 SER	203	70.540	14.135	-3.305	1.00	0.00	H
ATOM	2099	HG SER	203	69.912	13.978	-0.837	1.00	0.00	H
ATOM	2100	N VAL	204	73.442	14.108	-3.898	1.00	107.10	N
ATOM	2101	CA VAL	204	74.612	13.249	-4.132	1.00	107.10	C
ATOM	2102	C VAL	204	75.937	14.053	-4.216	1.00	107.10	C
ATOM	2103	O VAL	204	76.991	13.559	-3.809	1.00	107.10	O
ATOM	2104	CB VAL	204	74.353	12.330	-5.359	1.00	107.10	C
ATOM	2105	CG1 VAL	204	74.350	13.062	-6.708	1.00	107.10	C
ATOM	2106	CG2 VAL	204	75.296	11.112	-5.402	1.00	107.10	C
ATOM	2107	H VAL	204	72.706	14.125	-4.603	1.00	0.00	H
ATOM	2108	HA VAL	204	74.695	12.601	-3.259	1.00	0.00	H
ATOM	2109	HB VAL	204	73.349	11.920	-5.233	1.00	0.00	H
ATOM	2110	1HG1 VAL	204	73.978	12.413	-7.502	1.00	0.00	H
ATOM	2111	2HG1 VAL	204	73.706	13.936	-6.677	1.00	0.00	H
ATOM	2112	3HG1 VAL	204	75.345	13.397	-6.993	1.00	0.00	H
ATOM	2113	1HG2 VAL	204	75.041	10.448	-6.228	1.00	0.00	H
ATOM	2114	2HG2 VAL	204	76.337	11.408	-5.526	1.00	0.00	H
ATOM	2115	3HG2 VAL	204	75.228	10.528	-4.484	1.00	0.00	H
ATOM	2116	N GLY	205	75.879	15.334	-4.609	1.00	34.44	N
ATOM	2117	CA GLY	205	77.046	16.209	-4.695	1.00	34.44	C
ATOM	2118	C GLY	205	77.354	16.882	-3.349	1.00	34.44	C

ATOM	2119	O	GLY	205	78.520	17.098	-3.013	1.00	34.44	O
ATOM	2120	H	GLY	205	74.990	15.685	-4.951	1.00	0.00	H
ATOM	2121	2HA	GLY	205	77.919	15.658	-5.047	1.00	0.00	H
ATOM	2122	HA3	GLY	205	76.844	16.984	-5.436	1.00	0.00	H
ATOM	2123	N	SER	206	76.334	17.120	-2.518	1.00	40.11	N
ATOM	2124	CA	SER	206	76.488	17.577	-1.141	1.00	40.11	C
ATOM	2125	C	SER	206	76.902	16.414	-0.220	1.00	40.11	C
ATOM	2126	O	SER	206	77.666	16.618	0.725	1.00	40.11	O
ATOM	2127	CB	SER	206	75.143	18.122	-0.652	1.00	40.11	C
ATOM	2128	OG	SER	206	74.798	19.282	-1.385	1.00	40.11	O
ATOM	2129	H	SER	206	75.388	16.955	-2.853	1.00	0.00	H
ATOM	2130	HA	SER	206	77.244	18.362	-1.085	1.00	0.00	H
ATOM	2131	2HB	SER	206	74.361	17.369	-0.760	1.00	0.00	H
ATOM	2132	HB3	SER	206	75.191	18.384	0.405	1.00	0.00	H
ATOM	2133	HG	SER	206	74.379	18.972	-2.194	1.00	0.00	H
ATOM	2134	N	LEU	207	76.456	15.182	-0.501	1.00	61.57	N
ATOM	2135	CA	LEU	207	76.895	13.972	0.185	1.00	61.57	C
ATOM	2136	C	LEU	207	78.358	13.653	-0.141	1.00	61.57	C
ATOM	2137	O	LEU	207	79.083	13.227	0.751	1.00	61.57	O
ATOM	2138	CB	LEU	207	75.998	12.774	-0.183	1.00	61.57	C
ATOM	2139	CG	LEU	207	74.619	12.800	0.510	1.00	61.57	C
ATOM	2140	CD1	LEU	207	73.621	11.864	-0.184	1.00	61.57	C
ATOM	2141	CD2	LEU	207	74.719	12.445	2.001	1.00	61.57	C
ATOM	2142	H	LEU	207	75.727	15.081	-1.211	1.00	0.00	H
ATOM	2143	HA	LEU	207	76.838	14.154	1.257	1.00	0.00	H
ATOM	2144	2HB	LEU	207	75.876	12.741	-1.266	1.00	0.00	H
ATOM	2145	HB3	LEU	207	76.500	11.842	0.082	1.00	0.00	H
ATOM	2146	HG	LEU	207	74.209	13.809	0.434	1.00	0.00	H
ATOM	2147	1HD1	LEU	207	72.642	11.927	0.291	1.00	0.00	H
ATOM	2148	2HD1	LEU	207	73.478	12.137	-1.229	1.00	0.00	H
ATOM	2149	3HD1	LEU	207	73.942	10.823	-0.149	1.00	0.00	H
ATOM	2150	1HD2	LEU	207	73.739	12.525	2.464	1.00	0.00	H
ATOM	2151	2HD2	LEU	207	75.081	11.428	2.151	1.00	0.00	H
ATOM	2152	3HD2	LEU	207	75.375	13.119	2.547	1.00	0.00	H
ATOM	2153	N	PHE	208	78.825	13.941	-1.365	1.00	58.76	N
ATOM	2154	CA	PHE	208	80.244	13.927	-1.728	1.00	58.76	C
ATOM	2155	C	PHE	208	81.051	14.917	-0.859	1.00	58.76	C
ATOM	2156	O	PHE	208	82.040	14.509	-0.251	1.00	58.76	O
ATOM	2157	CB	PHE	208	80.395	14.182	-3.243	1.00	58.76	C
ATOM	2158	CG	PHE	208	81.810	14.288	-3.794	1.00	58.76	C
ATOM	2159	CD1	PHE	208	82.769	13.287	-3.524	1.00	58.76	C
ATOM	2160	CD2	PHE	208	82.158	15.379	-4.619	1.00	58.76	C
ATOM	2161	CE1	PHE	208	84.063	13.382	-4.073	1.00	58.76	C
ATOM	2162	CE2	PHE	208	83.449	15.469	-5.173	1.00	58.76	C
ATOM	2163	CZ	PHE	208	84.404	14.472	-4.897	1.00	58.76	C
ATOM	2164	H	PHE	208	78.152	14.204	-2.077	1.00	0.00	H
ATOM	2165	HA	PHE	208	80.625	12.928	-1.515	1.00	0.00	H
ATOM	2166	2HB	PHE	208	79.899	13.374	-3.782	1.00	0.00	H
ATOM	2167	HB3	PHE	208	79.855	15.083	-3.519	1.00	0.00	H
ATOM	2168	HD1	PHE	208	82.516	12.436	-2.909	1.00	0.00	H
ATOM	2169	HD2	PHE	208	81.430	16.144	-4.844	1.00	0.00	H
ATOM	2170	HE1	PHE	208	84.792	12.610	-3.877	1.00	0.00	H
ATOM	2171	HE2	PHE	208	83.701	16.295	-5.822	1.00	0.00	H
ATOM	2172	HZ	PHE	208	85.390	14.531	-5.333	1.00	0.00	H
ATOM	2173	N	LEU	209	80.578	16.168	-0.705	1.00	115.26	N
ATOM	2174	CA	LEU	209	81.130	17.193	0.197	1.00	115.26	C

ATOM	2175	C	LEU	209	81.213	16.687	1.656	1.00115.26	C
ATOM	2176	O	LEU	209	82.280	16.740	2.274	1.00115.26	O
ATOM	2177	CB	LEU	209	80.309	18.509	0.044	1.00115.26	C
ATOM	2178	CG	LEU	209	80.839	19.822	0.681	1.00115.26	C
ATOM	2179	CD1	LEU	209	80.802	19.849	2.215	1.00115.26	C
ATOM	2180	CD2	LEU	209	82.204	20.271	0.142	1.00115.26	C
ATOM	2181	H	LEU	209	79.763	16.418	-1.253	1.00 0.00	H
ATOM	2182	HA	LEU	209	82.147	17.389	-0.138	1.00 0.00	H
ATOM	2183	2HB	LEU	209	80.172	18.701	-1.021	1.00 0.00	H
ATOM	2184	HB3	LEU	209	79.303	18.360	0.424	1.00 0.00	H
ATOM	2185	HG	LEU	209	80.132	20.591	0.365	1.00 0.00	H
ATOM	2186	1HD1	LEU	209	80.995	20.854	2.587	1.00 0.00	H
ATOM	2187	2HD1	LEU	209	79.831	19.535	2.599	1.00 0.00	H
ATOM	2188	3HD1	LEU	209	81.564	19.208	2.653	1.00 0.00	H
ATOM	2189	1HD2	LEU	209	82.501	21.226	0.576	1.00 0.00	H
ATOM	2190	2HD2	LEU	209	82.989	19.548	0.367	1.00 0.00	H
ATOM	2191	3HD2	LEU	209	82.161	20.418	-0.937	1.00 0.00	H
ATOM	2192	N	THR	210	80.102	16.167	2.198	1.00107.67	N
ATOM	2193	CA	THR	210	80.001	15.667	3.573	1.00107.67	C
ATOM	2194	C	THR	210	80.874	14.401	3.788	1.00107.67	C
ATOM	2195	O	THR	210	81.475	14.224	4.850	1.00107.67	O
ATOM	2196	CB	THR	210	78.488	15.487	3.938	1.00107.67	C
ATOM	2197	OG1	THR	210	78.176	16.106	5.173	1.00107.67	O
ATOM	2198	CG2	THR	210	77.933	14.053	4.005	1.00107.67	C
ATOM	2199	H	THR	210	79.260	16.168	1.627	1.00 0.00	H
ATOM	2200	HA	THR	210	80.415	16.448	4.214	1.00 0.00	H
ATOM	2201	HB	THR	210	77.891	16.021	3.201	1.00 0.00	H
ATOM	2202	HG1	THR	210	77.236	16.250	5.177	1.00 0.00	H
ATOM	2203	1HG2	THR	210	76.860	14.054	4.199	1.00 0.00	H
ATOM	2204	2HG2	THR	210	78.091	13.513	3.075	1.00 0.00	H
ATOM	2205	3HG2	THR	210	78.404	13.470	4.797	1.00 0.00	H
ATOM	2206	N	ALA	211	81.001	13.540	2.764	1.00 41.28	N
ATOM	2207	CA	ALA	211	81.816	12.330	2.789	1.00 41.28	C
ATOM	2208	C	ALA	211	83.309	12.672	2.817	1.00 41.28	C
ATOM	2209	O	ALA	211	84.022	12.136	3.669	1.00 41.28	O
ATOM	2210	CB	ALA	211	81.517	11.457	1.559	1.00 41.28	C
ATOM	2211	H	ALA	211	80.456	13.710	1.922	1.00 0.00	H
ATOM	2212	HA	ALA	211	81.572	11.763	3.690	1.00 0.00	H
ATOM	2213	1HB	ALA	211	82.139	10.560	1.552	1.00 0.00	H
ATOM	2214	2HB	ALA	211	80.479	11.124	1.555	1.00 0.00	H
ATOM	2215	3HB	ALA	211	81.699	11.988	0.624	1.00 0.00	H
ATOM	2216	N	ILE	212	83.787	13.572	1.938	1.00116.82	N
ATOM	2217	CA	ILE	212	85.194	13.986	1.926	1.00116.82	C
ATOM	2218	C	ILE	212	85.588	14.725	3.221	1.00116.82	C
ATOM	2219	O	ILE	212	86.695	14.498	3.704	1.00116.82	O
ATOM	2220	CB	ILE	212	85.604	14.758	0.640	1.00116.82	C
ATOM	2221	CG2	ILE	212	85.427	13.877	-0.614	1.00116.82	C
ATOM	2222	CG1	ILE	212	84.968	16.155	0.458	1.00116.82	C
ATOM	2223	CD1	ILE	212	85.685	17.026	-0.583	1.00116.82	C
ATOM	2224	H	ILE	212	83.154	13.985	1.255	1.00 0.00	H
ATOM	2225	HA	ILE	212	85.780	13.066	1.920	1.00 0.00	H
ATOM	2226	HB	ILE	212	86.677	14.925	0.739	1.00 0.00	H
ATOM	2227	1HG2	ILE	212	85.862	14.339	-1.500	1.00 0.00	H
ATOM	2228	2HG2	ILE	212	85.915	12.910	-0.489	1.00 0.00	H
ATOM	2229	3HG2	ILE	212	84.378	13.684	-0.833	1.00 0.00	H
ATOM	2230	2HG1	ILE	212	83.925	16.050	0.180	1.00 0.00	H

ATOM	2231	HG13	ILE	212	84.967	16.701	1.399	1.00	0.00	H
ATOM	2232	1HD1	ILE	212	85.277	18.036	-0.586	1.00	0.00	H
ATOM	2233	2HD1	ILE	212	86.752	17.104	-0.372	1.00	0.00	H
ATOM	2234	3HD1	ILE	212	85.573	16.623	-1.590	1.00	0.00	H
ATOM	2235	N	ASP	213	84.676	15.507	3.833	1.00	58.87	N
ATOM	2236	CA	ASP	213	84.825	16.102	5.174	1.00	58.87	C
ATOM	2237	C	ASP	213	85.240	15.050	6.217	1.00	58.87	C
ATOM	2238	O	ASP	213	86.292	15.166	6.852	1.00	58.87	O
ATOM	2239	CB	ASP	213	83.561	16.917	5.588	1.00	58.87	C
ATOM	2240	CG	ASP	213	83.379	17.128	7.096	1.00	58.87	C
ATOM	2241	OD1	ASP	213	82.359	16.728	7.698	1.00	58.87	O
ATOM	2242	OD2	ASP	213	84.299	17.650	7.760	1.00	58.87	O1-
ATOM	2243	H	ASP	213	83.797	15.654	3.347	1.00	0.00	H
ATOM	2244	HA	ASP	213	85.653	16.809	5.128	1.00	0.00	H
ATOM	2245	2HB	ASP	213	83.583	17.888	5.098	1.00	0.00	H
ATOM	2246	HB3	ASP	213	82.663	16.424	5.224	1.00	0.00	H
ATOM	2247	N	ARG	214	84.413	14.006	6.352	1.00	124.93	N
ATOM	2248	CA	ARG	214	84.609	12.920	7.304	1.00	124.93	C
ATOM	2249	C	ARG	214	85.838	12.072	6.953	1.00	124.93	C
ATOM	2250	O	ARG	214	86.650	11.811	7.838	1.00	124.93	O
ATOM	2251	CB	ARG	214	83.333	12.052	7.379	1.00	124.93	C
ATOM	2252	CG	ARG	214	82.070	12.779	7.900	1.00	124.93	C
ATOM	2253	CD	ARG	214	82.207	13.341	9.324	1.00	124.93	C
ATOM	2254	NE	ARG	214	82.937	14.618	9.301	1.00	124.93	N
ATOM	2255	CZ	ARG	214	84.024	14.920	10.016	1.00	124.93	C
ATOM	2256	NH1	ARG	214	84.453	14.160	11.018	1.00	124.93	N
ATOM	2257	NH2	ARG	214	84.724	16.006	9.733	1.00	124.93	N1+
ATOM	2258	H	ARG	214	83.584	13.995	5.767	1.00	0.00	H
ATOM	2259	HA	ARG	214	84.830	13.343	8.282	1.00	0.00	H
ATOM	2260	2HB	ARG	214	83.114	11.662	6.384	1.00	0.00	H
ATOM	2261	HB3	ARG	214	83.524	11.181	8.008	1.00	0.00	H
ATOM	2262	2HG	ARG	214	81.794	13.586	7.224	1.00	0.00	H
ATOM	2263	HG3	ARG	214	81.229	12.085	7.873	1.00	0.00	H
ATOM	2264	2HD	ARG	214	81.228	13.512	9.769	1.00	0.00	H
ATOM	2265	HD3	ARG	214	82.699	12.609	9.964	1.00	0.00	H
ATOM	2266	HE	ARG	214	82.603	15.333	8.619	1.00	0.00	H
ATOM	2267	2HH1	ARG	214	85.141	14.631	11.633	1.00	0.00	H
ATOM	2268	1HH1	ARG	214	83.790	13.574	11.517	1.00	0.00	H
ATOM	2269	2HH2	ARG	214	85.474	16.291	10.355	1.00	0.00	H
ATOM	2270	1HH2	ARG	214	84.529	16.612	8.905	1.00	0.00	H
ATOM	2271	N	TYR	215	86.011	11.706	5.676	1.00	64.41	N
ATOM	2272	CA	TYR	215	87.130	10.911	5.160	1.00	64.41	C
ATOM	2273	C	TYR	215	88.484	11.591	5.440	1.00	64.41	C
ATOM	2274	O	TYR	215	89.358	10.993	6.073	1.00	64.41	O
ATOM	2275	CB	TYR	215	86.913	10.667	3.647	1.00	64.41	C
ATOM	2276	CG	TYR	215	87.804	9.627	2.984	1.00	64.41	C
ATOM	2277	CD1	TYR	215	87.276	8.365	2.639	1.00	64.41	C
ATOM	2278	CD2	TYR	215	89.148	9.927	2.667	1.00	64.41	C
ATOM	2279	CE1	TYR	215	88.083	7.414	1.984	1.00	64.41	C
ATOM	2280	CE2	TYR	215	89.960	8.963	2.039	1.00	64.41	C
ATOM	2281	CZ	TYR	215	89.430	7.705	1.701	1.00	64.41	C
ATOM	2282	OH	TYR	215	90.232	6.783	1.098	1.00	64.41	O
ATOM	2283	H	TYR	215	85.299	11.993	5.006	1.00	0.00	H
ATOM	2284	HA	TYR	215	87.117	9.948	5.674	1.00	0.00	H
ATOM	2285	2HB	TYR	215	85.882	10.356	3.480	1.00	0.00	H
ATOM	2286	HB3	TYR	215	87.028	11.601	3.099	1.00	0.00	H

ATOM	2287	HD1 TYR	215	86.247	8.118	2.858	1.00	0.00	H
ATOM	2288	HD2 TYR	215	89.571	10.892	2.901	1.00	0.00	H
ATOM	2289	HE1 TYR	215	87.661	6.462	1.700	1.00	0.00	H
ATOM	2290	HE2 TYR	215	90.991	9.188	1.809	1.00	0.00	H
ATOM	2291	HH TYR	215	89.852	5.919	0.998	1.00	0.00	H
ATOM	2292	N ILE	216	88.633	12.855	5.011	1.00	65.60	N
ATOM	2293	CA ILE	216	89.860	13.637	5.151	1.00	65.60	C
ATOM	2294	C ILE	216	90.123	13.973	6.629	1.00	65.60	C
ATOM	2295	O ILE	216	91.280	13.994	7.048	1.00	65.60	O
ATOM	2296	CB ILE	216	89.794	14.918	4.265	1.00	65.60	C
ATOM	2297	CG2 ILE	216	90.971	15.886	4.513	1.00	65.60	C
ATOM	2298	CG1 ILE	216	89.727	14.553	2.759	1.00	65.60	C
ATOM	2299	CD1 ILE	216	89.325	15.721	1.845	1.00	65.60	C
ATOM	2300	H ILE	216	87.851	13.319	4.551	1.00	0.00	H
ATOM	2301	HA ILE	216	90.685	13.022	4.797	1.00	0.00	H
ATOM	2302	HB ILE	216	88.885	15.457	4.529	1.00	0.00	H
ATOM	2303	1HG2 ILE	216	90.950	16.731	3.829	1.00	0.00	H
ATOM	2304	2HG2 ILE	216	90.957	16.310	5.517	1.00	0.00	H
ATOM	2305	3HG2 ILE	216	91.927	15.381	4.382	1.00	0.00	H
ATOM	2306	2HG1 ILE	216	90.687	14.151	2.432	1.00	0.00	H
ATOM	2307	HG13 ILE	216	89.005	13.753	2.597	1.00	0.00	H
ATOM	2308	1HD1 ILE	216	89.175	15.374	0.822	1.00	0.00	H
ATOM	2309	2HD1 ILE	216	88.395	16.181	2.177	1.00	0.00	H
ATOM	2310	3HD1 ILE	216	90.091	16.496	1.806	1.00	0.00	H
ATOM	2311	N SER	217	89.082	14.200	7.441	1.00	74.64	N
ATOM	2312	CA SER	217	89.252	14.434	8.870	1.00	74.64	C
ATOM	2313	C SER	217	89.742	13.163	9.586	1.00	74.64	C
ATOM	2314	O SER	217	90.778	13.221	10.247	1.00	74.64	O
ATOM	2315	CB SER	217	87.940	14.929	9.503	1.00	74.64	C
ATOM	2316	OG SER	217	87.652	16.246	9.050	1.00	74.64	O
ATOM	2317	H SER	217	88.144	14.199	7.055	1.00	0.00	H
ATOM	2318	HA SER	217	90.013	15.205	9.016	1.00	0.00	H
ATOM	2319	2HB SER	217	87.107	14.261	9.280	1.00	0.00	H
ATOM	2320	HB3 SER	217	88.037	14.952	10.590	1.00	0.00	H
ATOM	2321	HG SER	217	87.273	16.150	8.172	1.00	0.00	H
ATOM	2322	N ILE	218	89.037	12.030	9.441	1.00	123.69	N
ATOM	2323	CA ILE	218	89.192	10.892	10.347	1.00	123.69	C
ATOM	2324	C ILE	218	90.330	9.939	9.923	1.00	123.69	C
ATOM	2325	O ILE	218	90.956	9.348	10.798	1.00	123.69	O
ATOM	2326	CB ILE	218	87.816	10.158	10.451	1.00	123.69	C
ATOM	2327	CG2 ILE	218	87.515	9.156	9.309	1.00	123.69	C
ATOM	2328	CG1 ILE	218	87.650	9.510	11.842	1.00	123.69	C
ATOM	2329	CD1 ILE	218	86.240	8.976	12.131	1.00	123.69	C
ATOM	2330	H ILE	218	88.241	12.010	8.807	1.00	0.00	H
ATOM	2331	HA ILE	218	89.455	11.283	11.333	1.00	0.00	H
ATOM	2332	HB ILE	218	87.044	10.928	10.400	1.00	0.00	H
ATOM	2333	1HG2 ILE	218	86.466	8.862	9.304	1.00	0.00	H
ATOM	2334	2HG2 ILE	218	87.730	9.580	8.329	1.00	0.00	H
ATOM	2335	3HG2 ILE	218	88.107	8.247	9.400	1.00	0.00	H
ATOM	2336	2HG1 ILE	218	88.388	8.719	11.983	1.00	0.00	H
ATOM	2337	HG13 ILE	218	87.879	10.249	12.611	1.00	0.00	H
ATOM	2338	1HD1 ILE	218	86.187	8.608	13.155	1.00	0.00	H
ATOM	2339	2HD1 ILE	218	85.486	9.755	12.021	1.00	0.00	H
ATOM	2340	3HD1 ILE	218	85.969	8.146	11.478	1.00	0.00	H
ATOM	2341	N HIS	219	90.613	9.774	8.619	1.00	127.50	N
ATOM	2342	CA HIS	219	91.625	8.806	8.157	1.00	127.50	C

ATOM	2343	C	HIS	219	92.996	9.482	7.932	1.00127.50	C
ATOM	2344	O	HIS	219	94.005	8.800	7.767	1.00127.50	O
ATOM	2345	ND1	HIS	219	93.022	6.415	6.662	1.00127.50	N
ATOM	2346	CG	HIS	219	91.671	6.716	6.672	1.00127.50	C
ATOM	2347	CB	HIS	219	91.141	8.124	6.856	1.00127.50	C
ATOM	2348	NE2	HIS	219	91.978	4.475	6.439	1.00127.50	N
ATOM	2349	CD2	HIS	219	91.032	5.504	6.524	1.00127.50	C
ATOM	2350	CE1	HIS	219	93.151	5.097	6.504	1.00127.50	C
ATOM	2351	H	HIS	219	90.073	10.278	7.924	1.00 0.00	H
ATOM	2352	HA	HIS	219	91.765	8.025	8.908	1.00 0.00	H
ATOM	2353	HD1	HIS	219	93.780	7.083	6.819	1.00 0.00	H
ATOM	2354	2HB	HIS	219	90.053	8.046	6.862	1.00 0.00	H
ATOM	2355	HB3	HIS	219	91.391	8.721	5.977	1.00 0.00	H
ATOM	2356	HD2	HIS	219	89.973	5.293	6.495	1.00 0.00	H
ATOM	2357	HE1	HIS	219	94.106	4.588	6.466	1.00 0.00	H
ATOM	2358	N	ARG	220	93.035	10.818	7.924	1.00148.58	N
ATOM	2359	CA	ARG	220	94.217	11.665	8.092	1.00148.58	C
ATOM	2360	C	ARG	220	95.152	11.944	6.886	1.00148.58	C
ATOM	2361	O	ARG	220	96.364	11.991	7.082	1.00148.58	O
ATOM	2362	CB	ARG	220	94.927	11.464	9.465	1.00148.58	C
ATOM	2363	CG	ARG	220	94.073	11.812	10.711	1.00148.58	C
ATOM	2364	CD	ARG	220	94.052	13.315	11.075	1.00148.58	C
ATOM	2365	NE	ARG	220	93.422	14.103	9.999	1.00148.58	N
ATOM	2366	CZ	ARG	220	94.097	14.793	9.063	1.00148.58	C
ATOM	2367	NH1	ARG	220	95.382	15.076	9.211	1.00148.58	N
ATOM	2368	NH2	ARG	220	93.509	15.156	7.926	1.00148.58	N1+
ATOM	2369	H	ARG	220	92.144	11.275	8.041	1.00 0.00	H
ATOM	2370	HA	ARG	220	93.739	12.628	8.131	1.00 0.00	H
ATOM	2371	2HB	ARG	220	95.263	10.429	9.538	1.00 0.00	H
ATOM	2372	HB3	ARG	220	95.843	12.056	9.516	1.00 0.00	H
ATOM	2373	2HG	ARG	220	93.059	11.425	10.607	1.00 0.00	H
ATOM	2374	HG3	ARG	220	94.494	11.279	11.564	1.00 0.00	H
ATOM	2375	2HD	ARG	220	93.470	13.459	11.986	1.00 0.00	H
ATOM	2376	HD3	ARG	220	95.057	13.665	11.306	1.00 0.00	H
ATOM	2377	HE	ARG	220	92.411	13.956	9.959	1.00 0.00	H
ATOM	2378	2HH1	ARG	220	96.011	15.538	8.563	1.00 0.00	H
ATOM	2379	1HH1	ARG	220	95.882	15.093	10.141	1.00 0.00	H
ATOM	2380	2HH2	ARG	220	94.113	15.428	7.142	1.00 0.00	H
ATOM	2381	1HH2	ARG	220	92.580	14.806	7.668	1.00 0.00	H
ATOM	2382	N	PRO	221	94.655	12.233	5.658	1.00 92.41	N
ATOM	2383	CA	PRO	221	95.395	13.016	4.647	1.00 92.41	C
ATOM	2384	C	PRO	221	95.983	14.343	5.196	1.00 92.41	C
ATOM	2385	O	PRO	221	95.272	15.143	5.817	1.00 92.41	O
ATOM	2386	CD	PRO	221	93.373	11.775	5.123	1.00 92.41	C
ATOM	2387	CB	PRO	221	94.369	13.295	3.540	1.00 92.41	C
ATOM	2388	CG	PRO	221	93.359	12.167	3.645	1.00 92.41	C
ATOM	2389	HA	PRO	221	96.194	12.379	4.263	1.00 0.00	H
ATOM	2390	HD3	PRO	221	93.254	10.696	5.231	1.00 0.00	H
ATOM	2391	2HD	PRO	221	92.569	12.264	5.665	1.00 0.00	H
ATOM	2392	2HB	PRO	221	93.853	14.236	3.727	1.00 0.00	H
ATOM	2393	HB3	PRO	221	94.825	13.361	2.553	1.00 0.00	H
ATOM	2394	HG3	PRO	221	93.703	11.323	3.046	1.00 0.00	H
ATOM	2395	2HG	PRO	221	92.370	12.444	3.279	1.00 0.00	H
ATOM	2396	N	LEU	222	97.286	14.542	4.983	1.00 87.02	N
ATOM	2397	CA	LEU	222	98.113	15.600	5.564	1.00 87.02	C
ATOM	2398	C	LEU	222	98.274	16.778	4.582	1.00 87.02	C

ATOM	2399	O	LEU	222	98.063	16.634	3.374	1.00	87.02	O
ATOM	2400	CB	LEU	222	99.540	15.020	5.766	1.00	87.02	C
ATOM	2401	CG	LEU	222	99.637	13.670	6.516	1.00	87.02	C
ATOM	2402	CD1	LEU	222	101.095	13.191	6.581	1.00	87.02	C
ATOM	2403	CD2	LEU	222	99.042	13.740	7.926	1.00	87.02	C
ATOM	2404	H	LEU	222	97.786	13.844	4.459	1.00	0.00	H
ATOM	2405	HA	LEU	222	97.700	15.947	6.514	1.00	0.00	H
ATOM	2406	2HB	LEU	222	100.022	14.894	4.793	1.00	0.00	H
ATOM	2407	HB3	LEU	222	100.151	15.754	6.294	1.00	0.00	H
ATOM	2408	HG	LEU	222	99.081	12.910	5.966	1.00	0.00	H
ATOM	2409	1HD1	LEU	222	101.169	12.221	7.073	1.00	0.00	H
ATOM	2410	2HD1	LEU	222	101.526	13.082	5.585	1.00	0.00	H
ATOM	2411	3HD1	LEU	222	101.720	13.889	7.140	1.00	0.00	H
ATOM	2412	1HD2	LEU	222	99.124	12.780	8.437	1.00	0.00	H
ATOM	2413	2HD2	LEU	222	99.554	14.484	8.534	1.00	0.00	H
ATOM	2414	3HD2	LEU	222	97.985	14.001	7.913	1.00	0.00	H
ATOM	2415	N	ALA	223	98.741	17.928	5.089	1.00	45.63	N
ATOM	2416	CA	ALA	223	99.460	18.971	4.360	1.00	45.63	C
ATOM	2417	C	ALA	223	98.566	19.745	3.384	1.00	45.63	C
ATOM	2418	O	ALA	223	97.785	20.604	3.793	1.00	45.63	O
ATOM	2419	CB	ALA	223	100.778	18.439	3.753	1.00	45.63	C
ATOM	2420	H	ALA	223	98.788	18.035	6.099	1.00	0.00	H
ATOM	2421	HA	ALA	223	99.753	19.702	5.110	1.00	0.00	H
ATOM	2422	1HB	ALA	223	101.324	19.233	3.240	1.00	0.00	H
ATOM	2423	2HB	ALA	223	101.435	18.061	4.538	1.00	0.00	H
ATOM	2424	3HB	ALA	223	100.617	17.628	3.043	1.00	0.00	H
ATOM	2425	N	TYR	224	98.683	19.425	2.092	1.00	106.81	N
ATOM	2426	CA	TYR	224	97.971	20.048	0.979	1.00	106.81	C
ATOM	2427	C	TYR	224	96.685	19.277	0.617	1.00	106.81	C
ATOM	2428	O	TYR	224	95.991	19.664	-0.318	1.00	106.81	O
ATOM	2429	CB	TYR	224	98.924	20.104	-0.242	1.00	106.81	C
ATOM	2430	CG	TYR	224	99.353	18.778	-0.864	1.00	106.81	C
ATOM	2431	CD1	TYR	224	98.755	18.347	-2.066	1.00	106.81	C
ATOM	2432	CD2	TYR	224	100.369	17.993	-0.276	1.00	106.81	C
ATOM	2433	CE1	TYR	224	99.157	17.140	-2.668	1.00	106.81	C
ATOM	2434	CE2	TYR	224	100.756	16.774	-0.867	1.00	106.81	C
ATOM	2435	CZ	TYR	224	100.144	16.342	-2.060	1.00	106.81	C
ATOM	2436	OH	TYR	224	100.500	15.151	-2.627	1.00	106.81	O
ATOM	2437	H	TYR	224	99.292	18.654	1.864	1.00	0.00	H
ATOM	2438	HA	TYR	224	97.685	21.068	1.244	1.00	0.00	H
ATOM	2439	2HB	TYR	224	98.454	20.708	-1.021	1.00	0.00	H
ATOM	2440	HB3	TYR	224	99.824	20.659	0.027	1.00	0.00	H
ATOM	2441	HD1	TYR	224	97.993	18.951	-2.541	1.00	0.00	H
ATOM	2442	HD2	TYR	224	100.870	18.327	0.620	1.00	0.00	H
ATOM	2443	HE1	TYR	224	98.713	16.852	-3.609	1.00	0.00	H
ATOM	2444	HE2	TYR	224	101.532	16.184	-0.398	1.00	0.00	H
ATOM	2445	HH	TYR	224	101.450	15.057	-2.612	1.00	0.00	H
ATOM	2446	N	LYS	225	96.357	18.204	1.350	1.00	99.59	N
ATOM	2447	CA	LYS	225	95.197	17.337	1.135	1.00	99.59	C
ATOM	2448	C	LYS	225	94.246	17.367	2.348	1.00	99.59	C
ATOM	2449	O	LYS	225	93.495	16.425	2.578	1.00	99.59	O
ATOM	2450	CB	LYS	225	95.691	15.923	0.737	1.00	99.59	C
ATOM	2451	CG	LYS	225	96.032	15.816	-0.763	1.00	99.59	C
ATOM	2452	CD	LYS	225	96.955	14.634	-1.109	1.00	99.59	C
ATOM	2453	CE	LYS	225	97.041	14.381	-2.627	1.00	99.59	C
ATOM	2454	NZ	LYS	225	98.252	13.622	-3.000	1.00	99.59	N1+

ATOM	2455	H	LYS	225	96.988	17.931	2.096	1.00	0.00	H
ATOM	2456	HA	LYS	225	94.583	17.719	0.317	1.00	0.00	H
ATOM	2457	2HB	LYS	225	96.551	15.653	1.350	1.00	0.00	H
ATOM	2458	HB3	LYS	225	94.929	15.173	0.955	1.00	0.00	H
ATOM	2459	2HG	LYS	225	95.100	15.748	-1.327	1.00	0.00	H
ATOM	2460	HG3	LYS	225	96.512	16.737	-1.095	1.00	0.00	H
ATOM	2461	2HD	LYS	225	97.943	14.852	-0.699	1.00	0.00	H
ATOM	2462	HD3	LYS	225	96.606	13.730	-0.607	1.00	0.00	H
ATOM	2463	2HE	LYS	225	96.154	13.843	-2.965	1.00	0.00	H
ATOM	2464	HE3	LYS	225	97.049	15.325	-3.172	1.00	0.00	H
ATOM	2465	1HZ	LYS	225	98.247	13.429	-3.992	1.00	0.00	H
ATOM	2466	2HZ	LYS	225	99.082	14.191	-2.805	1.00	0.00	H
ATOM	2467	3HZ	LYS	225	98.316	12.754	-2.491	1.00	0.00	H
ATOM	2468	N	ARG	226	94.263	18.469	3.108	1.00	162.83	N
ATOM	2469	CA	ARG	226	93.311	18.782	4.176	1.00	162.83	C
ATOM	2470	C	ARG	226	92.057	19.461	3.575	1.00	162.83	C
ATOM	2471	O	ARG	226	91.990	19.706	2.371	1.00	162.83	O
ATOM	2472	CB	ARG	226	93.983	19.773	5.150	1.00	162.83	C
ATOM	2473	CG	ARG	226	95.247	19.219	5.844	1.00	162.83	C
ATOM	2474	CD	ARG	226	95.916	20.261	6.752	1.00	162.83	C
ATOM	2475	NE	ARG	226	96.306	21.437	5.958	1.00	162.83	N
ATOM	2476	CZ	ARG	226	95.752	22.656	5.981	1.00	162.83	C
ATOM	2477	NH1	ARG	226	94.803	22.966	6.856	1.00	162.83	N
ATOM	2478	NH2	ARG	226	96.126	23.572	5.091	1.00	162.83	N1+
ATOM	2479	H	ARG	226	94.838	19.224	2.766	1.00	0.00	H
ATOM	2480	HA	ARG	226	93.020	17.872	4.704	1.00	0.00	H
ATOM	2481	2HB	ARG	226	94.227	20.687	4.604	1.00	0.00	H
ATOM	2482	HB3	ARG	226	93.277	20.075	5.925	1.00	0.00	H
ATOM	2483	2HG	ARG	226	94.991	18.337	6.432	1.00	0.00	H
ATOM	2484	HG3	ARG	226	95.969	18.878	5.102	1.00	0.00	H
ATOM	2485	2HD	ARG	226	95.261	20.533	7.578	1.00	0.00	H
ATOM	2486	HD3	ARG	226	96.805	19.831	7.208	1.00	0.00	H
ATOM	2487	HE	ARG	226	97.027	21.223	5.258	1.00	0.00	H
ATOM	2488	2HH1	ARG	226	94.400	23.950	6.815	1.00	0.00	H
ATOM	2489	1HH1	ARG	226	94.560	22.403	7.648	1.00	0.00	H
ATOM	2490	2HH2	ARG	226	95.628	24.486	5.041	1.00	0.00	H
ATOM	2491	1HH2	ARG	226	96.915	23.442	4.481	1.00	0.00	H
ATOM	2492	N	ILE	227	91.063	19.777	4.414	1.00	124.58	N
ATOM	2493	CA	ILE	227	89.796	20.403	4.040	1.00	124.58	C
ATOM	2494	C	ILE	227	89.411	21.430	5.118	1.00	124.58	C
ATOM	2495	O	ILE	227	89.699	21.207	6.297	1.00	124.58	O
ATOM	2496	CB	ILE	227	88.731	19.307	3.739	1.00	124.58	C
ATOM	2497	CG2	ILE	227	88.392	18.441	4.973	1.00	124.58	C
ATOM	2498	CG1	ILE	227	87.450	19.895	3.107	1.00	124.58	C
ATOM	2499	CD1	ILE	227	86.507	18.839	2.515	1.00	124.58	C
ATOM	2500	H	ILE	227	91.186	19.650	5.407	1.00	0.00	H
ATOM	2501	HA	ILE	227	89.965	20.969	3.122	1.00	0.00	H
ATOM	2502	HB	ILE	227	89.175	18.647	2.993	1.00	0.00	H
ATOM	2503	1HG2	ILE	227	87.813	17.563	4.691	1.00	0.00	H
ATOM	2504	2HG2	ILE	227	89.289	18.076	5.471	1.00	0.00	H
ATOM	2505	3HG2	ILE	227	87.813	18.998	5.710	1.00	0.00	H
ATOM	2506	2HG1	ILE	227	86.905	20.497	3.835	1.00	0.00	H
ATOM	2507	HG13	ILE	227	87.739	20.573	2.305	1.00	0.00	H
ATOM	2508	1HD1	ILE	227	85.660	19.305	2.013	1.00	0.00	H
ATOM	2509	2HD1	ILE	227	87.024	18.218	1.784	1.00	0.00	H
ATOM	2510	3HD1	ILE	227	86.098	18.183	3.282	1.00	0.00	H

ATOM	2511	N	VAL	228	88.756	22.530	4.719	1.00	79.67	N
ATOM	2512	CA	VAL	228	88.263	23.596	5.594	1.00	79.67	C
ATOM	2513	C	VAL	228	86.760	23.802	5.308	1.00	79.67	C
ATOM	2514	O	VAL	228	85.934	23.088	5.866	1.00	79.67	O
ATOM	2515	CB	VAL	228	89.168	24.865	5.528	1.00	79.67	C
ATOM	2516	CG1	VAL	228	88.779	25.938	6.564	1.00	79.67	C
ATOM	2517	CG2	VAL	228	90.668	24.547	5.682	1.00	79.67	C
ATOM	2518	H	VAL	228	88.599	22.636	3.721	1.00	0.00	H
ATOM	2519	HA	VAL	228	88.310	23.238	6.624	1.00	0.00	H
ATOM	2520	HB	VAL	228	89.043	25.313	4.545	1.00	0.00	H
ATOM	2521	1HG1	VAL	228	89.379	26.841	6.442	1.00	0.00	H
ATOM	2522	2HG1	VAL	228	87.735	26.236	6.486	1.00	0.00	H
ATOM	2523	3HG1	VAL	228	88.946	25.583	7.581	1.00	0.00	H
ATOM	2524	1HG2	VAL	228	91.267	25.458	5.684	1.00	0.00	H
ATOM	2525	2HG2	VAL	228	90.871	24.025	6.618	1.00	0.00	H
ATOM	2526	3HG2	VAL	228	91.045	23.926	4.869	1.00	0.00	H
ATOM	2527	N	THR	229	86.404	24.739	4.424	1.00	139.97	N
ATOM	2528	CA	THR	229	85.074	24.984	3.861	1.00	139.97	C
ATOM	2529	C	THR	229	85.283	25.537	2.435	1.00	139.97	C
ATOM	2530	O	THR	229	86.431	25.782	2.063	1.00	139.97	O
ATOM	2531	CB	THR	229	84.166	25.795	4.832	1.00	139.97	C
ATOM	2532	OG1	THR	229	82.852	25.933	4.308	1.00	139.97	O
ATOM	2533	CG2	THR	229	84.687	27.207	5.142	1.00	139.97	C
ATOM	2534	H	THR	229	87.135	25.255	3.955	1.00	0.00	H
ATOM	2535	HA	THR	229	84.606	24.006	3.727	1.00	0.00	H
ATOM	2536	HB	THR	229	84.080	25.239	5.766	1.00	0.00	H
ATOM	2537	HG1	THR	229	82.302	26.317	4.994	1.00	0.00	H
ATOM	2538	1HG2	THR	229	84.025	27.729	5.834	1.00	0.00	H
ATOM	2539	2HG2	THR	229	85.671	27.170	5.610	1.00	0.00	H
ATOM	2540	3HG2	THR	229	84.770	27.817	4.243	1.00	0.00	H
ATOM	2541	N	ARG	230	84.210	25.704	1.640	1.00	199.90	N
ATOM	2542	CA	ARG	230	84.167	25.862	0.167	1.00	199.90	C
ATOM	2543	C	ARG	230	85.463	26.213	-0.618	1.00	199.90	C
ATOM	2544	O	ARG	230	85.977	25.331	-1.310	1.00	199.90	O
ATOM	2545	CB	ARG	230	82.847	26.445	-0.409	1.00	199.90	C
ATOM	2546	CG	ARG	230	81.873	27.146	0.560	1.00	199.90	C
ATOM	2547	CD	ARG	230	80.650	27.749	-0.167	1.00	199.90	C
ATOM	2548	NE	ARG	230	79.863	26.734	-0.894	1.00	199.90	N
ATOM	2549	CZ	ARG	230	78.875	26.934	-1.777	1.00	199.90	C
ATOM	2550	NH1	ARG	230	78.427	28.160	-2.060	1.00	199.90	N
ATOM	2551	NH2	ARG	230	78.344	25.877	-2.383	1.00	199.90	N1+
ATOM	2552	H	ARG	230	83.330	25.581	2.127	1.00	0.00	H
ATOM	2553	HA	ARG	230	84.062	24.811	-0.101	1.00	0.00	H
ATOM	2554	2HB	ARG	230	83.081	27.129	-1.226	1.00	0.00	H
ATOM	2555	HB3	ARG	230	82.312	25.629	-0.895	1.00	0.00	H
ATOM	2556	2HG	ARG	230	81.538	26.463	1.340	1.00	0.00	H
ATOM	2557	HG3	ARG	230	82.400	27.948	1.079	1.00	0.00	H
ATOM	2558	2HD	ARG	230	79.999	28.251	0.550	1.00	0.00	H
ATOM	2559	HD3	ARG	230	80.986	28.505	-0.879	1.00	0.00	H
ATOM	2560	HE	ARG	230	80.115	25.759	-0.720	1.00	0.00	H
ATOM	2561	2HH1	ARG	230	77.653	28.307	-2.697	1.00	0.00	H
ATOM	2562	1HH1	ARG	230	78.825	28.979	-1.628	1.00	0.00	H
ATOM	2563	2HH2	ARG	230	77.631	25.901	-3.108	1.00	0.00	H
ATOM	2564	1HH2	ARG	230	78.680	24.937	-2.179	1.00	0.00	H
ATOM	2565	N	PRO	231	86.039	27.433	-0.479	1.00	144.87	N
ATOM	2566	CA	PRO	231	87.354	27.824	-1.042	1.00	144.87	C

ATOM	2567	C	PRO	231	88.546	26.873	-0.773	1.00144.87	C
ATOM	2568	O	PRO	231	89.526	26.887	-1.511	1.00144.87	O
ATOM	2569	CD	PRO	231	85.408	28.565	0.204	1.00144.87	C
ATOM	2570	CB	PRO	231	87.655	29.198	-0.424	1.00144.87	C
ATOM	2571	CG	PRO	231	86.300	29.778	-0.060	1.00144.87	C
ATOM	2572	HA	PRO	231	87.231	27.924	-2.122	1.00 0.00	H
ATOM	2573	HD3	PRO	231	84.398	28.756	-0.155	1.00 0.00	H
ATOM	2574	2HD	PRO	231	85.358	28.361	1.274	1.00 0.00	H
ATOM	2575	2HB	PRO	231	88.251	29.096	0.486	1.00 0.00	H
ATOM	2576	HB3	PRO	231	88.215	29.842	-1.105	1.00 0.00	H
ATOM	2577	HG3	PRO	231	85.912	30.335	-0.915	1.00 0.00	H
ATOM	2578	2HG	PRO	231	86.345	30.467	0.785	1.00 0.00	H
ATOM	2579	N	LYS	232	88.472	26.047	0.274	1.00 53.61	N
ATOM	2580	CA	LYS	232	89.422	25.015	0.670	1.00 53.61	C
ATOM	2581	C	LYS	232	88.665	23.685	0.867	1.00 53.61	C
ATOM	2582	O	LYS	232	88.902	22.940	1.817	1.00 53.61	O
ATOM	2583	CB	LYS	232	90.264	25.506	1.870	1.00 53.61	C
ATOM	2584	CG	LYS	232	91.458	26.394	1.465	1.00 53.61	C
ATOM	2585	CD	LYS	232	92.074	27.130	2.667	1.00 53.61	C
ATOM	2586	CE	LYS	232	93.346	27.931	2.328	1.00 53.61	C
ATOM	2587	NZ	LYS	232	94.558	27.092	2.373	1.00 53.61	N1+
ATOM	2588	H	LYS	232	87.631	26.091	0.849	1.00 0.00	H
ATOM	2589	HA	LYS	232	90.106	24.812	-0.156	1.00 0.00	H
ATOM	2590	2HB	LYS	232	89.614	26.057	2.549	1.00 0.00	H
ATOM	2591	HB3	LYS	232	90.651	24.660	2.440	1.00 0.00	H
ATOM	2592	2HG	LYS	232	92.206	25.777	0.966	1.00 0.00	H
ATOM	2593	HG3	LYS	232	91.134	27.133	0.731	1.00 0.00	H
ATOM	2594	2HD	LYS	232	91.326	27.823	3.056	1.00 0.00	H
ATOM	2595	HD3	LYS	232	92.269	26.429	3.481	1.00 0.00	H
ATOM	2596	2HE	LYS	232	93.257	28.409	1.351	1.00 0.00	H
ATOM	2597	HE3	LYS	232	93.470	28.739	3.049	1.00 0.00	H
ATOM	2598	1HZ	LYS	232	95.390	27.652	2.268	1.00 0.00	H
ATOM	2599	2HZ	LYS	232	94.631	26.624	3.303	1.00 0.00	H
ATOM	2600	3HZ	LYS	232	94.533	26.368	1.676	1.00 0.00	H
ATOM	2601	N	ALA	233	87.720	23.419	-0.043	1.00 26.20	N
ATOM	2602	CA	ALA	233	86.980	22.176	-0.261	1.00 26.20	C
ATOM	2603	C	ALA	233	86.650	22.024	-1.761	1.00 26.20	C
ATOM	2604	O	ALA	233	85.636	21.425	-2.121	1.00 26.20	O
ATOM	2605	CB	ALA	233	85.759	22.093	0.672	1.00 26.20	C
ATOM	2606	H	ALA	233	87.476	24.176	-0.677	1.00 0.00	H
ATOM	2607	HA	ALA	233	87.643	21.344	-0.017	1.00 0.00	H
ATOM	2608	1HB	ALA	233	85.251	21.135	0.560	1.00 0.00	H
ATOM	2609	2HB	ALA	233	86.042	22.199	1.719	1.00 0.00	H
ATOM	2610	3HB	ALA	233	85.034	22.869	0.440	1.00 0.00	H
ATOM	2611	N	VAL	234	87.499	22.629	-2.608	1.00 29.25	N
ATOM	2612	CA	VAL	234	87.355	22.954	-4.031	1.00 29.25	C
ATOM	2613	C	VAL	234	86.607	21.916	-4.883	1.00 29.25	C
ATOM	2614	O	VAL	234	85.591	22.248	-5.483	1.00 29.25	O
ATOM	2615	CB	VAL	234	88.722	23.405	-4.619	1.00 29.25	C
ATOM	2616	CG1	VAL	234	88.616	23.896	-6.077	1.00 29.25	C
ATOM	2617	CG2	VAL	234	89.394	24.501	-3.766	1.00 29.25	C
ATOM	2618	H	VAL	234	88.298	23.058	-2.170	1.00 0.00	H
ATOM	2619	HA	VAL	234	86.717	23.840	-4.042	1.00 0.00	H
ATOM	2620	HB	VAL	234	89.391	22.543	-4.624	1.00 0.00	H
ATOM	2621	1HG1	VAL	234	89.582	24.232	-6.457	1.00 0.00	H
ATOM	2622	2HG1	VAL	234	88.270	23.114	-6.754	1.00 0.00	H

ATOM	2623	3HG1 VAL	234	87.921	24.733	-6.167	1.00	0.00		H
ATOM	2624	1HG2 VAL	234	90.328	24.835	-4.220	1.00	0.00		H
ATOM	2625	2HG2 VAL	234	88.750	25.377	-3.675	1.00	0.00		H
ATOM	2626	3HG2 VAL	234	89.643	24.163	-2.761	1.00	0.00		H
ATOM	2627	N VAL	235	87.092	20.667	-4.916	1.00	22.78		N
ATOM	2628	CA VAL	235	86.598	19.584	-5.774	1.00	22.78		C
ATOM	2629	C VAL	235	85.077	19.363	-5.626	1.00	22.78		C
ATOM	2630	O VAL	235	84.345	19.411	-6.611	1.00	22.78		O
ATOM	2631	CB VAL	235	87.425	18.290	-5.516	1.00	22.78		C
ATOM	2632	CG1 VAL	235	87.058	17.149	-6.486	1.00	22.78		C
ATOM	2633	CG2 VAL	235	88.947	18.541	-5.583	1.00	22.78		C
ATOM	2634	H VAL	235	87.923	20.482	-4.381	1.00	0.00		H
ATOM	2635	HA VAL	235	86.770	19.899	-6.806	1.00	0.00		H
ATOM	2636	HB VAL	235	87.200	17.936	-4.509	1.00	0.00		H
ATOM	2637	1HG1 VAL	235	87.648	16.253	-6.289	1.00	0.00		H
ATOM	2638	2HG1 VAL	235	86.011	16.860	-6.405	1.00	0.00		H
ATOM	2639	3HG1 VAL	235	87.236	17.437	-7.524	1.00	0.00		H
ATOM	2640	1HG2 VAL	235	89.502	17.611	-5.453	1.00	0.00		H
ATOM	2641	2HG2 VAL	235	89.234	18.958	-6.550	1.00	0.00		H
ATOM	2642	3HG2 VAL	235	89.293	19.224	-4.808	1.00	0.00		H
ATOM	2643	N ALA	236	84.598	19.195	-4.387	1.00	35.31		N
ATOM	2644	CA ALA	236	83.183	18.972	-4.097	1.00	35.31		C
ATOM	2645	C ALA	236	82.369	20.278	-4.124	1.00	35.31		C
ATOM	2646	O ALA	236	81.172	20.244	-4.401	1.00	35.31		O
ATOM	2647	CB ALA	236	83.068	18.335	-2.710	1.00	35.31		C
ATOM	2648	H ALA	236	85.238	19.281	-3.613	1.00	0.00		H
ATOM	2649	HA ALA	236	82.759	18.285	-4.827	1.00	0.00		H
ATOM	2650	1HB ALA	236	82.021	18.214	-2.432	1.00	0.00		H
ATOM	2651	2HB ALA	236	83.514	17.340	-2.698	1.00	0.00		H
ATOM	2652	3HB ALA	236	83.562	18.935	-1.948	1.00	0.00		H
ATOM	2653	N PHE	237	83.018	21.428	-3.882	1.00	99.46		N
ATOM	2654	CA PHE	237	82.425	22.759	-4.019	1.00	99.46		C
ATOM	2655	C PHE	237	82.109	23.077	-5.493	1.00	99.46		C
ATOM	2656	O PHE	237	81.042	23.617	-5.762	1.00	99.46		O
ATOM	2657	CB PHE	237	83.377	23.813	-3.400	1.00	99.46		C
ATOM	2658	CG PHE	237	83.071	25.290	-3.638	1.00	99.46		C
ATOM	2659	CD1 PHE	237	84.130	26.182	-3.915	1.00	99.46		C
ATOM	2660	CD2 PHE	237	81.747	25.781	-3.611	1.00	99.46		C
ATOM	2661	CE1 PHE	237	83.870	27.543	-4.164	1.00	99.46		C
ATOM	2662	CE2 PHE	237	81.485	27.139	-3.876	1.00	99.46		C
ATOM	2663	CZ PHE	237	82.547	28.022	-4.148	1.00	99.46		C
ATOM	2664	H PHE	237	84.010	21.372	-3.698	1.00	0.00		H
ATOM	2665	HA PHE	237	81.482	22.772	-3.469	1.00	0.00		H
ATOM	2666	2HB PHE	237	83.422	23.655	-2.323	1.00	0.00		H
ATOM	2667	HB3 PHE	237	84.387	23.632	-3.759	1.00	0.00		H
ATOM	2668	HD1 PHE	237	85.149	25.825	-3.958	1.00	0.00		H
ATOM	2669	HD2 PHE	237	80.921	25.108	-3.427	1.00	0.00		H
ATOM	2670	HE1 PHE	237	84.685	28.214	-4.398	1.00	0.00		H
ATOM	2671	HE2 PHE	237	80.468	27.499	-3.895	1.00	0.00		H
ATOM	2672	HZ PHE	237	82.348	29.060	-4.374	1.00	0.00		H
ATOM	2673	N CYS	238	82.988	22.719	-6.438	1.00	23.09		N
ATOM	2674	CA CYS	238	82.761	22.921	-7.870	1.00	23.09		C
ATOM	2675	C CYS	238	81.758	21.887	-8.416	1.00	23.09		C
ATOM	2676	O CYS	238	80.847	22.251	-9.160	1.00	23.09		O
ATOM	2677	CB CYS	238	84.092	22.770	-8.634	1.00	23.09		C
ATOM	2678	SG CYS	238	85.229	24.121	-8.194	1.00	23.09		S

ATOM	2679	H	CYS	238	83.900	22.372	-6.150	1.00	0.00	H
ATOM	2680	HA	CYS	238	82.361	23.921	-8.045	1.00	0.00	H
ATOM	2681	2HB	CYS	238	84.567	21.809	-8.431	1.00	0.00	H
ATOM	2682	HB3	CYS	238	83.912	22.817	-9.710	1.00	0.00	H
ATOM	2683	HG	CYS	238	86.110	23.883	-9.172	1.00	0.00	H
ATOM	2684	N	LEU	239	81.904	20.614	-8.008	1.00	91.15	N
ATOM	2685	CA	LEU	239	81.099	19.469	-8.446	1.00	91.15	C
ATOM	2686	C	LEU	239	79.592	19.687	-8.244	1.00	91.15	C
ATOM	2687	O	LEU	239	78.809	19.380	-9.141	1.00	91.15	O
ATOM	2688	CB	LEU	239	81.616	18.197	-7.729	1.00	91.15	C
ATOM	2689	CG	LEU	239	80.958	16.829	-8.037	1.00	91.15	C
ATOM	2690	CD1	LEU	239	79.634	16.593	-7.291	1.00	91.15	C
ATOM	2691	CD2	LEU	239	80.843	16.526	-9.539	1.00	91.15	C
ATOM	2692	H	LEU	239	82.690	20.404	-7.404	1.00	0.00	H
ATOM	2693	HA	LEU	239	81.274	19.353	-9.516	1.00	0.00	H
ATOM	2694	2HB	LEU	239	82.672	18.092	-7.978	1.00	0.00	H
ATOM	2695	HB3	LEU	239	81.576	18.361	-6.655	1.00	0.00	H
ATOM	2696	HG	LEU	239	81.644	16.083	-7.633	1.00	0.00	H
ATOM	2697	1HD1	LEU	239	79.370	15.540	-7.311	1.00	0.00	H
ATOM	2698	2HD1	LEU	239	79.700	16.893	-6.245	1.00	0.00	H
ATOM	2699	3HD1	LEU	239	78.799	17.126	-7.740	1.00	0.00	H
ATOM	2700	1HD2	LEU	239	80.484	15.510	-9.707	1.00	0.00	H
ATOM	2701	2HD2	LEU	239	80.150	17.201	-10.041	1.00	0.00	H
ATOM	2702	3HD2	LEU	239	81.810	16.616	-10.036	1.00	0.00	H
ATOM	2703	N	MET	240	79.191	20.238	-7.085	1.00	126.24	N
ATOM	2704	CA	MET	240	77.790	20.432	-6.693	1.00	126.24	C
ATOM	2705	C	MET	240	76.956	21.312	-7.645	1.00	126.24	C
ATOM	2706	O	MET	240	75.732	21.236	-7.611	1.00	126.24	O
ATOM	2707	CB	MET	240	77.694	20.966	-5.244	1.00	126.24	C
ATOM	2708	CG	MET	240	78.188	22.414	-5.029	1.00	126.24	C
ATOM	2709	SD	MET	240	77.067	23.499	-4.090	1.00	126.24	S
ATOM	2710	CE	MET	240	75.636	23.567	-5.210	1.00	126.24	C
ATOM	2711	H	MET	240	79.908	20.470	-6.411	1.00	0.00	H
ATOM	2712	HA	MET	240	77.326	19.444	-6.708	1.00	0.00	H
ATOM	2713	2HB	MET	240	76.652	20.890	-4.932	1.00	0.00	H
ATOM	2714	HB3	MET	240	78.229	20.295	-4.569	1.00	0.00	H
ATOM	2715	2HG	MET	240	79.136	22.374	-4.494	1.00	0.00	H
ATOM	2716	HG3	MET	240	78.415	22.915	-5.970	1.00	0.00	H
ATOM	2717	1HE	MET	240	74.919	24.316	-4.876	1.00	0.00	H
ATOM	2718	2HE	MET	240	75.949	23.823	-6.222	1.00	0.00	H
ATOM	2719	3HE	MET	240	75.121	22.607	-5.252	1.00	0.00	H
ATOM	2720	N	TRP	241	77.602	22.147	-8.469	1.00	58.91	N
ATOM	2721	CA	TRP	241	76.935	22.969	-9.475	1.00	58.91	C
ATOM	2722	C	TRP	241	76.878	22.185	-10.794	1.00	58.91	C
ATOM	2723	O	TRP	241	75.808	22.043	-11.383	1.00	58.91	O
ATOM	2724	CB	TRP	241	77.739	24.267	-9.713	1.00	58.91	C
ATOM	2725	CG	TRP	241	78.101	25.061	-8.494	1.00	58.91	C
ATOM	2726	CD2	TRP	241	77.262	25.909	-7.651	1.00	58.91	C
ATOM	2727	CD1	TRP	241	79.338	25.129	-7.960	1.00	58.91	C
ATOM	2728	NE1	TRP	241	79.325	25.928	-6.838	1.00	58.91	N
ATOM	2729	CE2	TRP	241	78.074	26.460	-6.611	1.00	58.91	C
ATOM	2730	CE3	TRP	241	75.896	26.276	-7.658	1.00	58.91	C
ATOM	2731	CZ2	TRP	241	77.562	27.341	-5.643	1.00	58.91	C
ATOM	2732	CZ3	TRP	241	75.367	27.149	-6.686	1.00	58.91	C
ATOM	2733	CH2	TRP	241	76.197	27.687	-5.682	1.00	58.91	C
ATOM	2734	H	TRP	241	78.613	22.129	-8.464	1.00	0.00	H

ATOM	2735	HA	TRP	241	75.922	23.227	-9.158	1.00	0.00	H
ATOM	2736	2HB	TRP	241	78.672	24.046	-10.236	1.00	0.00	H
ATOM	2737	HB3	TRP	241	77.180	24.925	-10.378	1.00	0.00	H
ATOM	2738	HD1	TRP	241	80.195	24.607	-8.357	1.00	0.00	H
ATOM	2739	HE1	TRP	241	80.162	26.029	-6.279	1.00	0.00	H
ATOM	2740	HE3	TRP	241	75.248	25.882	-8.429	1.00	0.00	H
ATOM	2741	HZ2	TRP	241	78.220	27.762	-4.902	1.00	0.00	H
ATOM	2742	HZ3	TRP	241	74.320	27.416	-6.726	1.00	0.00	H
ATOM	2743	HH2	TRP	241	75.777	28.375	-4.965	1.00	0.00	H
ATOM	2744	N	THR	242	78.018	21.653	-11.258	1.00	94.15	N
ATOM	2745	CA	THR	242	78.155	21.016	-12.565	1.00	94.15	C
ATOM	2746	C	THR	242	77.352	19.706	-12.675	1.00	94.15	C
ATOM	2747	O	THR	242	76.823	19.415	-13.743	1.00	94.15	O
ATOM	2748	CB	THR	242	79.663	20.799	-12.848	1.00	94.15	C
ATOM	2749	OG1	THR	242	80.290	20.060	-11.813	1.00	94.15	O
ATOM	2750	CG2	THR	242	80.437	22.117	-13.002	1.00	94.15	C
ATOM	2751	H	THR	242	78.865	21.702	-10.707	1.00	0.00	H
ATOM	2752	HA	THR	242	77.757	21.694	-13.322	1.00	0.00	H
ATOM	2753	HB	THR	242	79.768	20.235	-13.778	1.00	0.00	H
ATOM	2754	HG1	THR	242	79.909	19.193	-11.785	1.00	0.00	H
ATOM	2755	1HG2	THR	242	81.479	21.929	-13.261	1.00	0.00	H
ATOM	2756	2HG2	THR	242	80.009	22.731	-13.795	1.00	0.00	H
ATOM	2757	3HG2	THR	242	80.427	22.704	-12.083	1.00	0.00	H
ATOM	2758	N	ILE	243	77.200	18.957	-11.571	1.00	91.58	N
ATOM	2759	CA	ILE	243	76.427	17.712	-11.516	1.00	91.58	C
ATOM	2760	C	ILE	243	74.919	17.938	-11.756	1.00	91.58	C
ATOM	2761	O	ILE	243	74.222	17.008	-12.153	1.00	91.58	O
ATOM	2762	CB	ILE	243	76.695	17.017	-10.151	1.00	91.58	C
ATOM	2763	CG2	ILE	243	76.082	17.762	-8.945	1.00	91.58	C
ATOM	2764	CG1	ILE	243	76.257	15.538	-10.167	1.00	91.58	C
ATOM	2765	CD1	ILE	243	76.925	14.693	-9.081	1.00	91.58	C
ATOM	2766	H	ILE	243	77.641	19.267	-10.709	1.00	0.00	H
ATOM	2767	HA	ILE	243	76.791	17.071	-12.322	1.00	0.00	H
ATOM	2768	HB	ILE	243	77.777	17.014	-10.019	1.00	0.00	H
ATOM	2769	1HG2	ILE	243	76.441	17.365	-7.998	1.00	0.00	H
ATOM	2770	2HG2	ILE	243	76.315	18.824	-8.966	1.00	0.00	H
ATOM	2771	3HG2	ILE	243	74.996	17.683	-8.931	1.00	0.00	H
ATOM	2772	2HG1	ILE	243	75.173	15.460	-10.082	1.00	0.00	H
ATOM	2773	HG13	ILE	243	76.518	15.099	-11.130	1.00	0.00	H
ATOM	2774	1HD1	ILE	243	76.605	13.652	-9.151	1.00	0.00	H
ATOM	2775	2HD1	ILE	243	78.008	14.707	-9.196	1.00	0.00	H
ATOM	2776	3HD1	ILE	243	76.680	15.049	-8.080	1.00	0.00	H
ATOM	2777	N	ALA	244	74.427	19.162	-11.521	1.00	41.20	N
ATOM	2778	CA	ALA	244	73.068	19.574	-11.833	1.00	41.20	C
ATOM	2779	C	ALA	244	73.050	20.196	-13.237	1.00	41.20	C
ATOM	2780	O	ALA	244	72.307	19.731	-14.096	1.00	41.20	O
ATOM	2781	CB	ALA	244	72.617	20.631	-10.810	1.00	41.20	C
ATOM	2782	H	ALA	244	75.073	19.875	-11.217	1.00	0.00	H
ATOM	2783	HA	ALA	244	72.379	18.727	-11.804	1.00	0.00	H
ATOM	2784	1HB	ALA	244	71.601	20.968	-11.024	1.00	0.00	H
ATOM	2785	2HB	ALA	244	72.605	20.210	-9.804	1.00	0.00	H
ATOM	2786	3HB	ALA	244	73.261	21.510	-10.793	1.00	0.00	H
ATOM	2787	N	ILE	245	73.876	21.225	-13.486	1.00	38.80	N
ATOM	2788	CA	ILE	245	73.862	22.060	-14.697	1.00	38.80	C
ATOM	2789	C	ILE	245	74.099	21.268	-16.004	1.00	38.80	C
ATOM	2790	O	ILE	245	73.492	21.589	-17.020	1.00	38.80	O

ATOM	2791	CB	ILE	245	74.862	23.246	-14.511	1.00	38.80	C
ATOM	2792	CG2	ILE	245	75.107	24.070	-15.798	1.00	38.80	C
ATOM	2793	CG1	ILE	245	74.398	24.189	-13.370	1.00	38.80	C
ATOM	2794	CD1	ILE	245	75.475	25.173	-12.889	1.00	38.80	C
ATOM	2795	H	ILE	245	74.486	21.522	-12.733	1.00	0.00	H
ATOM	2796	HA	ILE	245	72.856	22.477	-14.786	1.00	0.00	H
ATOM	2797	HB	ILE	245	75.822	22.814	-14.226	1.00	0.00	H
ATOM	2798	1HG2	ILE	245	75.790	24.901	-15.632	1.00	0.00	H
ATOM	2799	2HG2	ILE	245	75.554	23.473	-16.593	1.00	0.00	H
ATOM	2800	3HG2	ILE	245	74.174	24.482	-16.186	1.00	0.00	H
ATOM	2801	2HG1	ILE	245	73.513	24.742	-13.688	1.00	0.00	H
ATOM	2802	HG13	ILE	245	74.074	23.610	-12.506	1.00	0.00	H
ATOM	2803	1HD1	ILE	245	75.142	25.696	-11.993	1.00	0.00	H
ATOM	2804	2HD1	ILE	245	76.403	24.656	-12.651	1.00	0.00	H
ATOM	2805	3HD1	ILE	245	75.695	25.932	-13.640	1.00	0.00	H
ATOM	2806	N	VAL	246	74.950	20.235	-15.987	1.00	40.48	N
ATOM	2807	CA	VAL	246	75.292	19.438	-17.174	1.00	40.48	C
ATOM	2808	C	VAL	246	74.273	18.284	-17.380	1.00	40.48	C
ATOM	2809	O	VAL	246	74.347	17.564	-18.373	1.00	40.48	O
ATOM	2810	CB	VAL	246	76.754	18.917	-16.979	1.00	40.48	C
ATOM	2811	CG1	VAL	246	77.287	18.029	-18.120	1.00	40.48	C
ATOM	2812	CG2	VAL	246	77.748	20.086	-16.782	1.00	40.48	C
ATOM	2813	H	VAL	246	75.410	19.988	-15.118	1.00	0.00	H
ATOM	2814	HA	VAL	246	75.258	20.062	-18.069	1.00	0.00	H
ATOM	2815	HB	VAL	246	76.776	18.304	-16.078	1.00	0.00	H
ATOM	2816	1HG1	VAL	246	78.349	17.815	-18.000	1.00	0.00	H
ATOM	2817	2HG1	VAL	246	76.784	17.064	-18.142	1.00	0.00	H
ATOM	2818	3HG1	VAL	246	77.149	18.501	-19.093	1.00	0.00	H
ATOM	2819	1HG2	VAL	246	78.758	19.717	-16.607	1.00	0.00	H
ATOM	2820	2HG2	VAL	246	77.777	20.723	-17.667	1.00	0.00	H
ATOM	2821	3HG2	VAL	246	77.490	20.720	-15.935	1.00	0.00	H
ATOM	2822	N	ILE	247	73.313	18.109	-16.462	1.00	103.53	N
ATOM	2823	CA	ILE	247	72.404	16.966	-16.399	1.00	103.53	C
ATOM	2824	C	ILE	247	70.940	17.424	-16.505	1.00	103.53	C
ATOM	2825	O	ILE	247	70.177	16.884	-17.305	1.00	103.53	O
ATOM	2826	CB	ILE	247	72.738	16.157	-15.108	1.00	103.53	C
ATOM	2827	CG2	ILE	247	71.660	15.153	-14.677	1.00	103.53	C
ATOM	2828	CG1	ILE	247	74.120	15.460	-15.176	1.00	103.53	C
ATOM	2829	CD1	ILE	247	74.213	14.311	-16.199	1.00	103.53	C
ATOM	2830	H	ILE	247	73.260	18.786	-15.713	1.00	0.00	H
ATOM	2831	HA	ILE	247	72.549	16.315	-17.261	1.00	0.00	H
ATOM	2832	HB	ILE	247	72.792	16.881	-14.294	1.00	0.00	H
ATOM	2833	1HG2	ILE	247	71.955	14.610	-13.782	1.00	0.00	H
ATOM	2834	2HG2	ILE	247	70.716	15.641	-14.444	1.00	0.00	H
ATOM	2835	3HG2	ILE	247	71.475	14.426	-15.463	1.00	0.00	H
ATOM	2836	2HG1	ILE	247	74.897	16.194	-15.392	1.00	0.00	H
ATOM	2837	HG13	ILE	247	74.368	15.067	-14.189	1.00	0.00	H
ATOM	2838	1HD1	ILE	247	75.218	13.897	-16.232	1.00	0.00	H
ATOM	2839	2HD1	ILE	247	73.536	13.494	-15.951	1.00	0.00	H
ATOM	2840	3HD1	ILE	247	73.982	14.642	-17.210	1.00	0.00	H
ATOM	2841	N	ALA	248	70.539	18.434	-15.724	1.00	65.36	N
ATOM	2842	CA	ALA	248	69.152	18.867	-15.543	1.00	65.36	C
ATOM	2843	C	ALA	248	68.544	19.578	-16.761	1.00	65.36	C
ATOM	2844	O	ALA	248	67.347	19.844	-16.760	1.00	65.36	O
ATOM	2845	CB	ALA	248	69.091	19.815	-14.334	1.00	65.36	C
ATOM	2846	H	ALA	248	71.233	18.871	-15.118	1.00	0.00	H

ATOM	2847	HA	ALA	248	68.531	17.992	-15.351	1.00	0.00	H
ATOM	2848	1HB	ALA	248	68.063	20.113	-14.121	1.00	0.00	H
ATOM	2849	2HB	ALA	248	69.483	19.339	-13.436	1.00	0.00	H
ATOM	2850	3HB	ALA	248	69.667	20.725	-14.510	1.00	0.00	H
ATOM	2851	N	VAL	249	69.344	19.862	-17.793	1.00	51.49	N
ATOM	2852	CA	VAL	249	68.899	20.433	-19.062	1.00	51.49	C
ATOM	2853	C	VAL	249	68.433	19.309	-20.015	1.00	51.49	C
ATOM	2854	O	VAL	249	67.565	19.549	-20.849	1.00	51.49	O
ATOM	2855	CB	VAL	249	70.093	21.215	-19.687	1.00	51.49	C
ATOM	2856	CG1	VAL	249	69.750	21.889	-21.032	1.00	51.49	C
ATOM	2857	CG2	VAL	249	70.643	22.288	-18.723	1.00	51.49	C
ATOM	2858	H	VAL	249	70.315	19.610	-17.705	1.00	0.00	H
ATOM	2859	HA	VAL	249	68.062	21.116	-18.895	1.00	0.00	H
ATOM	2860	HB	VAL	249	70.902	20.508	-19.881	1.00	0.00	H
ATOM	2861	1HG1	VAL	249	70.591	22.472	-21.410	1.00	0.00	H
ATOM	2862	2HG1	VAL	249	69.504	21.162	-21.806	1.00	0.00	H
ATOM	2863	3HG1	VAL	249	68.898	22.562	-20.932	1.00	0.00	H
ATOM	2864	1HG2	VAL	249	71.492	22.813	-19.161	1.00	0.00	H
ATOM	2865	2HG2	VAL	249	69.880	23.029	-18.484	1.00	0.00	H
ATOM	2866	3HG2	VAL	249	70.991	21.861	-17.784	1.00	0.00	H
ATOM	2867	N	LEU	250	68.981	18.087	-19.900	1.00	66.48	N
ATOM	2868	CA	LEU	250	68.709	16.968	-20.812	1.00	66.48	C
ATOM	2869	C	LEU	250	67.228	16.505	-20.867	1.00	66.48	C
ATOM	2870	O	LEU	250	66.765	16.234	-21.972	1.00	66.48	O
ATOM	2871	CB	LEU	250	69.656	15.772	-20.524	1.00	66.48	C
ATOM	2872	CG	LEU	250	71.170	16.091	-20.538	1.00	66.48	C
ATOM	2873	CD1	LEU	250	71.979	14.909	-19.979	1.00	66.48	C
ATOM	2874	CD2	LEU	250	71.674	16.472	-21.939	1.00	66.48	C
ATOM	2875	H	LEU	250	69.599	17.906	-19.120	1.00	0.00	H
ATOM	2876	HA	LEU	250	68.934	17.332	-21.816	1.00	0.00	H
ATOM	2877	2HB	LEU	250	69.415	15.333	-19.560	1.00	0.00	H
ATOM	2878	HB3	LEU	250	69.456	14.983	-21.252	1.00	0.00	H
ATOM	2879	HG	LEU	250	71.362	16.935	-19.874	1.00	0.00	H
ATOM	2880	1HD1	LEU	250	73.041	15.155	-19.931	1.00	0.00	H
ATOM	2881	2HD1	LEU	250	71.661	14.654	-18.968	1.00	0.00	H
ATOM	2882	3HD1	LEU	250	71.870	14.019	-20.599	1.00	0.00	H
ATOM	2883	1HD2	LEU	250	72.748	16.661	-21.931	1.00	0.00	H
ATOM	2884	2HD2	LEU	250	71.483	15.678	-22.663	1.00	0.00	H
ATOM	2885	3HD2	LEU	250	71.194	17.379	-22.307	1.00	0.00	H
ATOM	2886	N	PRO	251	66.463	16.405	-19.749	1.00	109.03	N
ATOM	2887	CA	PRO	251	65.036	16.026	-19.769	1.00	109.03	C
ATOM	2888	C	PRO	251	64.078	16.965	-20.531	1.00	109.03	C
ATOM	2889	O	PRO	251	62.929	16.584	-20.750	1.00	109.03	O
ATOM	2890	CD	PRO	251	66.959	16.450	-18.370	1.00	109.03	C
ATOM	2891	CB	PRO	251	64.594	16.073	-18.294	1.00	109.03	C
ATOM	2892	CG	PRO	251	65.860	15.866	-17.493	1.00	109.03	C
ATOM	2893	HA	PRO	251	64.947	15.014	-20.168	1.00	0.00	H
ATOM	2894	HD3	PRO	251	67.895	15.925	-18.213	1.00	0.00	H
ATOM	2895	2HD	PRO	251	67.109	17.492	-18.094	1.00	0.00	H
ATOM	2896	2HB	PRO	251	64.180	17.049	-18.030	1.00	0.00	H
ATOM	2897	HB3	PRO	251	63.819	15.339	-18.085	1.00	0.00	H
ATOM	2898	HG3	PRO	251	66.033	14.798	-17.364	1.00	0.00	H
ATOM	2899	2HG	PRO	251	65.838	16.322	-16.506	1.00	0.00	H
ATOM	2900	N	LEU	252	64.477	18.211	-20.822	1.00	207.02	N
ATOM	2901	CA	LEU	252	63.571	19.282	-21.224	1.00	207.02	C
ATOM	2902	C	LEU	252	63.103	19.083	-22.673	1.00	207.02	C

ATOM	2903	O	LEU	252	63.826	19.402	-23.621	1.00207.02	O
ATOM	2904	CB	LEU	252	64.286	20.649	-21.088	1.00207.02	C
ATOM	2905	CG	LEU	252	64.249	21.276	-19.674	1.00207.02	C
ATOM	2906	CD1	LEU	252	64.752	20.338	-18.566	1.00207.02	C
ATOM	2907	CD2	LEU	252	65.037	22.594	-19.656	1.00207.02	C
ATOM	2908	H	LEU	252	65.452	18.456	-20.715	1.00 0.00	H
ATOM	2909	HA	LEU	252	62.701	19.278	-20.568	1.00 0.00	H
ATOM	2910	2HB	LEU	252	65.311	20.568	-21.447	1.00 0.00	H
ATOM	2911	HB3	LEU	252	63.813	21.369	-21.759	1.00 0.00	H
ATOM	2912	HG	LEU	252	63.210	21.516	-19.444	1.00 0.00	H
ATOM	2913	1HD1	LEU	252	64.815	20.852	-17.606	1.00 0.00	H
ATOM	2914	2HD1	LEU	252	64.088	19.487	-18.424	1.00 0.00	H
ATOM	2915	3HD1	LEU	252	65.743	19.951	-18.798	1.00 0.00	H
ATOM	2916	1HD2	LEU	252	64.975	23.078	-18.681	1.00 0.00	H
ATOM	2917	2HD2	LEU	252	66.092	22.426	-19.878	1.00 0.00	H
ATOM	2918	3HD2	LEU	252	64.650	23.297	-20.395	1.00 0.00	H
ATOM	2919	N	LEU	253	61.851	18.628	-22.824	1.00234.21	N
ATOM	2920	CA	LEU	253	61.084	18.426	-24.059	1.00234.21	C
ATOM	2921	C	LEU	253	60.769	19.743	-24.810	1.00234.21	C
ATOM	2922	O	LEU	253	59.651	20.008	-25.252	1.00234.21	O
ATOM	2923	CB	LEU	253	59.801	17.623	-23.737	1.00234.21	C
ATOM	2924	CG	LEU	253	60.046	16.182	-23.229	1.00234.21	C
ATOM	2925	CD1	LEU	253	58.751	15.563	-22.679	1.00234.21	C
ATOM	2926	CD2	LEU	253	60.641	15.276	-24.322	1.00234.21	C
ATOM	2927	H	LEU	253	61.406	18.309	-21.976	1.00 0.00	H
ATOM	2928	HA	LEU	253	61.703	17.843	-24.744	1.00 0.00	H
ATOM	2929	2HB	LEU	253	59.208	18.178	-23.009	1.00 0.00	H
ATOM	2930	HB3	LEU	253	59.182	17.562	-24.632	1.00 0.00	H
ATOM	2931	HG	LEU	253	60.757	16.212	-22.403	1.00 0.00	H
ATOM	2932	1HD1	LEU	253	58.931	14.561	-22.287	1.00 0.00	H
ATOM	2933	2HD1	LEU	253	58.344	16.157	-21.862	1.00 0.00	H
ATOM	2934	3HD1	LEU	253	57.985	15.483	-23.451	1.00 0.00	H
ATOM	2935	1HD2	LEU	253	60.756	14.252	-23.963	1.00 0.00	H
ATOM	2936	2HD2	LEU	253	60.007	15.246	-25.208	1.00 0.00	H
ATOM	2937	3HD2	LEU	253	61.632	15.610	-24.631	1.00 0.00	H
ATOM	2938	N	GLY	254	61.822	20.530	-25.015	1.00120.37	N
ATOM	2939	CA	GLY	254	61.997	21.550	-26.033	1.00120.37	C
ATOM	2940	C	GLY	254	63.027	21.002	-27.027	1.00120.37	C
ATOM	2941	O	GLY	254	62.806	21.082	-28.235	1.00120.37	O
ATOM	2942	H	GLY	254	62.666	20.181	-24.562	1.00 0.00	H
ATOM	2943	2HA	GLY	254	61.061	21.784	-26.543	1.00 0.00	H
ATOM	2944	HA3	GLY	254	62.371	22.468	-25.581	1.00 0.00	H
ATOM	2945	N	TRP	255	64.067	20.304	-26.530	1.00295.57	N
ATOM	2946	CA	TRP	255	64.801	19.303	-27.297	1.00295.57	C
ATOM	2947	C	TRP	255	63.939	18.032	-27.241	1.00295.57	C
ATOM	2948	O	TRP	255	63.984	17.253	-26.290	1.00295.57	O
ATOM	2949	CB	TRP	255	66.186	19.039	-26.665	1.00295.57	C
ATOM	2950	CG	TRP	255	66.968	17.900	-27.266	1.00295.57	C
ATOM	2951	CD2	TRP	255	67.269	17.618	-28.674	1.00295.57	C
ATOM	2952	CD1	TRP	255	67.495	16.869	-26.566	1.00295.57	C
ATOM	2953	NE1	TRP	255	68.107	15.986	-27.431	1.00295.57	N
ATOM	2954	CE2	TRP	255	67.983	16.382	-28.743	1.00295.57	C
ATOM	2955	CE3	TRP	255	67.008	18.267	-29.906	1.00295.57	C
ATOM	2956	CZ2	TRP	255	68.403	15.816	-29.959	1.00295.57	C
ATOM	2957	CZ3	TRP	255	67.420	17.707	-31.134	1.00295.57	C
ATOM	2958	CH2	TRP	255	68.115	16.482	-31.163	1.00295.57	C

ATOM	2959	H	TRP	255	64.141	20.198	-25.525	1.00	0.00	H
ATOM	2960	HA	TRP	255	64.928	19.627	-28.330	1.00	0.00	H
ATOM	2961	2HB	TRP	255	66.797	19.936	-26.749	1.00	0.00	H
ATOM	2962	HB3	TRP	255	66.075	18.845	-25.596	1.00	0.00	H
ATOM	2963	HD1	TRP	255	67.425	16.762	-25.491	1.00	0.00	H
ATOM	2964	HE1	TRP	255	68.592	15.134	-27.126	1.00	0.00	H
ATOM	2965	HE3	TRP	255	66.486	19.211	-29.912	1.00	0.00	H
ATOM	2966	HZ2	TRP	255	68.943	14.880	-29.972	1.00	0.00	H
ATOM	2967	HZ3	TRP	255	67.206	18.222	-32.060	1.00	0.00	H
ATOM	2968	HH2	TRP	255	68.436	16.055	-32.103	1.00	0.00	H
ATOM	2969	N	ASN	256	63.085	17.878	-28.249	1.00223.96		N
ATOM	2970	CA	ASN	256	62.186	16.745	-28.405	1.00223.96		C
ATOM	2971	C	ASN	256	62.922	15.748	-29.291	1.00223.96		C
ATOM	2972	O	ASN	256	62.986	15.916	-30.510	1.00223.96		O
ATOM	2973	CB	ASN	256	60.888	17.227	-29.086	1.00223.96		C
ATOM	2974	CG	ASN	256	59.998	17.944	-28.076	1.00223.96		C
ATOM	2975	OD1	ASN	256	59.358	17.296	-27.253	1.00223.96		O
ATOM	2976	ND2	ASN	256	59.972	19.270	-28.071	1.00223.96		N
ATOM	2977	H	ASN	256	63.116	18.556	-28.994	1.00	0.00	H
ATOM	2978	HA	ASN	256	61.949	16.274	-27.447	1.00	0.00	H
ATOM	2979	2HB	ASN	256	61.094	17.861	-29.949	1.00	0.00	H
ATOM	2980	HB3	ASN	256	60.330	16.373	-29.470	1.00	0.00	H
ATOM	2981	2HD2	ASN	256	59.486	19.719	-27.299	1.00	0.00	H
ATOM	2982	1HD2	ASN	256	60.542	19.814	-28.702	1.00	0.00	H
ATOM	2983	N	CYS	257	63.550	14.743	-28.669	1.00115.59		N
ATOM	2984	CA	CYS	257	64.346	13.737	-29.363	1.00115.59		C
ATOM	2985	C	CYS	257	63.394	12.650	-29.912	1.00115.59		C
ATOM	2986	O	CYS	257	63.336	11.528	-29.397	1.00115.59		O
ATOM	2987	CB	CYS	257	65.405	13.134	-28.410	1.00115.59		C
ATOM	2988	SG	CYS	257	66.920	12.464	-29.188	1.00115.59		S
ATOM	2989	H	CYS	257	63.489	14.702	-27.662	1.00	0.00	H
ATOM	2990	HA	CYS	257	64.873	14.240	-30.172	1.00	0.00	H
ATOM	2991	2HB	CYS	257	65.761	13.919	-27.739	1.00	0.00	H
ATOM	2992	HB3	CYS	257	64.977	12.379	-27.750	1.00	0.00	H
ATOM	2993	N	GLU	258	62.635	13.012	-30.953	1.00194.78		N
ATOM	2994	CA	GLU	258	61.612	12.195	-31.595	1.00194.78		C
ATOM	2995	C	GLU	258	62.192	10.950	-32.294	1.00194.78		C
ATOM	2996	O	GLU	258	63.352	10.921	-32.711	1.00194.78		O
ATOM	2997	CB	GLU	258	60.853	13.028	-32.652	1.00194.78		C
ATOM	2998	CG	GLU	258	60.178	14.324	-32.169	1.00194.78		C
ATOM	2999	CD	GLU	258	59.098	14.062	-31.135	1.00194.78		C
ATOM	3000	OE1	GLU	258	57.900	14.004	-31.493	1.00194.78		O
ATOM	3001	OE2	GLU	258	59.456	13.964	-29.944	1.00194.78		O1-
ATOM	3002	H	GLU	258	62.675	13.987	-31.228	1.00	0.00	H
ATOM	3003	HA	GLU	258	60.920	11.866	-30.817	1.00	0.00	H
ATOM	3004	2HB	GLU	258	61.516	13.268	-33.484	1.00	0.00	H
ATOM	3005	HB3	GLU	258	60.068	12.398	-33.061	1.00	0.00	H
ATOM	3006	2HG	GLU	258	60.906	15.018	-31.755	1.00	0.00	H
ATOM	3007	HG3	GLU	258	59.722	14.837	-33.016	1.00	0.00	H
ATOM	3008	N	LYS	259	61.343	9.923	-32.405	1.00146.36		N
ATOM	3009	CA	LYS	259	61.543	8.660	-33.125	1.00146.36		C
ATOM	3010	C	LYS	259	60.472	8.532	-34.235	1.00146.36		C
ATOM	3011	O	LYS	259	60.265	7.457	-34.793	1.00146.36		O
ATOM	3012	CB	LYS	259	61.430	7.479	-32.121	1.00146.36		C
ATOM	3013	CG	LYS	259	62.653	7.208	-31.218	1.00146.36		C
ATOM	3014	CD	LYS	259	63.084	8.395	-30.343	1.00146.36		C

ATOM	3015	CE	LYS	259	63.805	8.007	-29.054	1.00146.36	C
ATOM	3016	NZ	LYS	259	64.420	9.185	-28.432	1.00146.36	N1+
ATOM	3017	H	LYS	259	60.421	10.064	-32.020	1.00 0.00	H
ATOM	3018	HA	LYS	259	62.518	8.636	-33.615	1.00 0.00	H
ATOM	3019	2HB	LYS	259	60.540	7.608	-31.504	1.00 0.00	H
ATOM	3020	HB3	LYS	259	61.256	6.553	-32.673	1.00 0.00	H
ATOM	3021	2HG	LYS	259	62.407	6.361	-30.576	1.00 0.00	H
ATOM	3022	HG3	LYS	259	63.498	6.882	-31.827	1.00 0.00	H
ATOM	3023	2HD	LYS	259	63.735	9.038	-30.936	1.00 0.00	H
ATOM	3024	HD3	LYS	259	62.212	8.988	-30.064	1.00 0.00	H
ATOM	3025	2HE	LYS	259	63.099	7.565	-28.348	1.00 0.00	H
ATOM	3026	HE3	LYS	259	64.576	7.263	-29.244	1.00 0.00	H
ATOM	3027	1HZ	LYS	259	64.318	9.078	-27.400	1.00 0.00	H
ATOM	3028	2HZ	LYS	259	65.406	9.225	-28.672	1.00 0.00	H
ATOM	3029	3HZ	LYS	259	63.950	10.044	-28.712	1.00 0.00	H
ATOM	3030	N	LEU	260	59.754	9.622	-34.520	1.00272.16	N
ATOM	3031	CA	LEU	260	58.624	9.750	-35.426	1.00272.16	C
ATOM	3032	C	LEU	260	58.673	11.184	-35.958	1.00272.16	C
ATOM	3033	O	LEU	260	59.208	12.065	-35.288	1.00272.16	O
ATOM	3034	CB	LEU	260	57.314	9.373	-34.693	1.00272.16	C
ATOM	3035	CG	LEU	260	56.013	9.459	-35.525	1.00272.16	C
ATOM	3036	CD1	LEU	260	56.000	8.463	-36.697	1.00272.16	C
ATOM	3037	CD2	LEU	260	54.787	9.241	-34.627	1.00272.16	C
ATOM	3038	H	LEU	260	60.092	10.507	-34.161	1.00 0.00	H
ATOM	3039	HA	LEU	260	58.787	9.070	-36.264	1.00 0.00	H
ATOM	3040	2HB	LEU	260	57.409	8.364	-34.290	1.00 0.00	H
ATOM	3041	HB3	LEU	260	57.212	10.028	-33.826	1.00 0.00	H
ATOM	3042	HG	LEU	260	55.917	10.467	-35.931	1.00 0.00	H
ATOM	3043	1HD1	LEU	260	55.062	8.523	-37.251	1.00 0.00	H
ATOM	3044	2HD1	LEU	260	56.803	8.654	-37.408	1.00 0.00	H
ATOM	3045	3HD1	LEU	260	56.107	7.436	-36.345	1.00 0.00	H
ATOM	3046	1HD2	LEU	260	53.859	9.337	-35.192	1.00 0.00	H
ATOM	3047	2HD2	LEU	260	54.795	8.252	-34.168	1.00 0.00	H
ATOM	3048	3HD2	LEU	260	54.750	9.979	-33.824	1.00 0.00	H
ATOM	3049	N	GLN	261	58.182	11.433	-37.175	1.00221.30	N
ATOM	3050	CA	GLN	261	58.323	12.681	-37.936	1.00221.30	C
ATOM	3051	C	GLN	261	59.742	12.741	-38.534	1.00221.30	C
ATOM	3052	O	GLN	261	59.911	12.620	-39.743	1.00221.30	O
ATOM	3053	CB	GLN	261	57.912	13.967	-37.160	1.00221.30	C
ATOM	3054	CG	GLN	261	56.465	13.977	-36.592	1.00221.30	C
ATOM	3055	CD	GLN	261	56.298	14.067	-35.063	1.00221.30	C
ATOM	3056	OE1	GLN	261	55.209	14.383	-34.601	1.00221.30	O
ATOM	3057	NE2	GLN	261	57.332	13.826	-34.266	1.00221.30	N
ATOM	3058	H	GLN	261	57.788	10.653	-37.678	1.00 0.00	H
ATOM	3059	HA	GLN	261	57.641	12.589	-38.782	1.00 0.00	H
ATOM	3060	2HB	GLN	261	58.651	14.231	-36.405	1.00 0.00	H
ATOM	3061	HB3	GLN	261	57.982	14.795	-37.867	1.00 0.00	H
ATOM	3062	2HG	GLN	261	55.929	14.828	-37.013	1.00 0.00	H
ATOM	3063	HG3	GLN	261	55.916	13.098	-36.931	1.00 0.00	H
ATOM	3064	2HE2	GLN	261	57.264	13.934	-33.247	1.00 0.00	H
ATOM	3065	1HE2	GLN	261	58.188	13.431	-34.643	1.00 0.00	H
ATOM	3066	N	SER	262	60.740	12.813	-37.648	1.00147.46	N
ATOM	3067	CA	SER	262	62.165	12.633	-37.878	1.00147.46	C
ATOM	3068	C	SER	262	62.698	11.755	-36.733	1.00147.46	C
ATOM	3069	O	SER	262	62.126	11.756	-35.642	1.00147.46	O
ATOM	3070	CB	SER	262	62.871	14.005	-37.921	1.00147.46	C

ATOM	3071	OG	SER	262	62.541	14.719	-39.099	1.00147.46	O
ATOM	3072	H	SER	262	60.476	12.775	-36.668	1.00 0.00	H
ATOM	3073	HA	SER	262	62.328	12.102	-38.818	1.00 0.00	H
ATOM	3074	2HB	SER	262	62.611	14.598	-37.043	1.00 0.00	H
ATOM	3075	HB3	SER	262	63.954	13.869	-37.898	1.00 0.00	H
ATOM	3076	HG	SER	262	62.980	15.556	-39.086	1.00 0.00	H
ATOM	3077	N	VAL	263	63.805	11.037	-36.949	1.00 42.45	N
ATOM	3078	CA	VAL	263	64.576	10.403	-35.880	1.00 42.45	C
ATOM	3079	C	VAL	263	65.627	11.454	-35.464	1.00 42.45	C
ATOM	3080	O	VAL	263	66.218	12.100	-36.331	1.00 42.45	O
ATOM	3081	CB	VAL	263	65.271	9.121	-36.418	1.00 42.45	C
ATOM	3082	CG1	VAL	263	65.923	8.315	-35.280	1.00 42.45	C
ATOM	3083	CG2	VAL	263	64.300	8.201	-37.187	1.00 42.45	C
ATOM	3084	H	VAL	263	64.286	11.140	-37.829	1.00 0.00	H
ATOM	3085	HA	VAL	263	63.933	10.139	-35.041	1.00 0.00	H
ATOM	3086	HB	VAL	263	66.066	9.412	-37.108	1.00 0.00	H
ATOM	3087	1HG1	VAL	263	66.460	7.448	-35.666	1.00 0.00	H
ATOM	3088	2HG1	VAL	263	66.650	8.907	-34.726	1.00 0.00	H
ATOM	3089	3HG1	VAL	263	65.183	7.953	-34.566	1.00 0.00	H
ATOM	3090	1HG2	VAL	263	64.797	7.281	-37.497	1.00 0.00	H
ATOM	3091	2HG2	VAL	263	63.446	7.923	-36.568	1.00 0.00	H
ATOM	3092	3HG2	VAL	263	63.916	8.673	-38.091	1.00 0.00	H
ATOM	3093	N	CYS	264	65.812	11.677	-34.158	1.00106.60	N
ATOM	3094	CA	CYS	264	66.602	12.794	-33.627	1.00106.60	C
ATOM	3095	C	CYS	264	68.128	12.687	-33.803	1.00106.60	C
ATOM	3096	O	CYS	264	68.812	13.700	-33.665	1.00106.60	O
ATOM	3097	CB	CYS	264	66.270	12.997	-32.140	1.00106.60	C
ATOM	3098	SG	CYS	264	66.446	11.592	-30.986	1.00106.60	S
ATOM	3099	H	CYS	264	65.210	11.181	-33.508	1.00 0.00	H
ATOM	3100	HA	CYS	264	66.301	13.698	-34.159	1.00 0.00	H
ATOM	3101	2HB	CYS	264	66.866	13.824	-31.751	1.00 0.00	H
ATOM	3102	HB3	CYS	264	65.236	13.332	-32.099	1.00 0.00	H
ATOM	3103	N	SER	265	68.656	11.508	-34.134	1.00171.79	N
ATOM	3104	CA	SER	265	70.032	11.283	-34.557	1.00171.79	C
ATOM	3105	C	SER	265	70.080	10.034	-35.447	1.00171.79	C
ATOM	3106	O	SER	265	69.073	9.344	-35.623	1.00171.79	O
ATOM	3107	CB	SER	265	71.030	11.361	-33.373	1.00171.79	C
ATOM	3108	OG	SER	265	70.854	10.340	-32.410	1.00171.79	O
ATOM	3109	H	SER	265	68.041	10.726	-34.306	1.00 0.00	H
ATOM	3110	HA	SER	265	70.287	12.106	-35.228	1.00 0.00	H
ATOM	3111	2HB	SER	265	72.055	11.306	-33.745	1.00 0.00	H
ATOM	3112	HB3	SER	265	70.947	12.326	-32.872	1.00 0.00	H
ATOM	3113	HG	SER	265	71.387	9.583	-32.660	1.00 0.00	H
ATOM	3114	N	ASP	266	71.242	9.793	-36.049	1.00132.64	N
ATOM	3115	CA	ASP	266	71.569	8.784	-37.051	1.00132.64	C
ATOM	3116	C	ASP	266	71.840	7.417	-36.366	1.00132.64	C
ATOM	3117	O	ASP	266	71.025	6.946	-35.569	1.00132.64	O
ATOM	3118	CB	ASP	266	72.818	9.327	-37.810	1.00132.64	C
ATOM	3119	CG	ASP	266	74.001	9.631	-36.893	1.00132.64	C
ATOM	3120	OD1	ASP	266	74.859	8.731	-36.790	1.00132.64	O
ATOM	3121	OD2	ASP	266	73.903	10.639	-36.164	1.00132.64	O1-
ATOM	3122	H	ASP	266	72.051	10.371	-35.808	1.00 0.00	H
ATOM	3123	HA	ASP	266	70.734	8.664	-37.741	1.00 0.00	H
ATOM	3124	2HB	ASP	266	73.133	8.639	-38.595	1.00 0.00	H
ATOM	3125	HB3	ASP	266	72.558	10.253	-38.324	1.00 0.00	H
ATOM	3126	N	ILE	267	72.953	6.753	-36.713	1.00128.69	N

ATOM	3127	CA	ILE	267	73.448	5.523	-36.108	1.00128.69	C
ATOM	3128	C	ILE	267	74.132	5.826	-34.756	1.00128.69	C
ATOM	3129	O	ILE	267	74.182	4.939	-33.902	1.00128.69	O
ATOM	3130	CB	ILE	267	74.400	4.798	-37.111	1.00128.69	C
ATOM	3131	CG2	ILE	267	75.605	5.651	-37.567	1.00128.69	C
ATOM	3132	CG1	ILE	267	74.850	3.410	-36.597	1.00128.69	C
ATOM	3133	CD1	ILE	267	75.388	2.475	-37.691	1.00128.69	C
ATOM	3134	H	ILE	267	73.672	7.344	-37.137	1.00 0.00	H
ATOM	3135	HA	ILE	267	72.595	4.874	-35.903	1.00 0.00	H
ATOM	3136	HB	ILE	267	73.797	4.613	-38.002	1.00 0.00	H
ATOM	3137	1HG2	ILE	267	76.230	5.121	-38.284	1.00 0.00	H
ATOM	3138	2HG2	ILE	267	75.283	6.566	-38.063	1.00 0.00	H
ATOM	3139	3HG2	ILE	267	76.240	5.941	-36.729	1.00 0.00	H
ATOM	3140	2HG1	ILE	267	75.603	3.525	-35.815	1.00 0.00	H
ATOM	3141	HG13	ILE	267	74.002	2.915	-36.120	1.00 0.00	H
ATOM	3142	1HD1	ILE	267	75.612	1.491	-37.277	1.00 0.00	H
ATOM	3143	2HD1	ILE	267	74.658	2.339	-38.489	1.00 0.00	H
ATOM	3144	3HD1	ILE	267	76.307	2.856	-38.134	1.00 0.00	H
ATOM	3145	N	PHE	268	74.568	7.074	-34.505	1.00272.23	N
ATOM	3146	CA	PHE	268	74.814	7.591	-33.156	1.00272.23	C
ATOM	3147	C	PHE	268	73.498	7.515	-32.339	1.00272.23	C
ATOM	3148	O	PHE	268	72.524	8.148	-32.759	1.00272.23	O
ATOM	3149	CB	PHE	268	75.343	9.041	-33.209	1.00272.23	C
ATOM	3150	CG	PHE	268	76.842	9.152	-33.435	1.00272.23	C
ATOM	3151	CD1	PHE	268	77.741	8.835	-32.394	1.00272.23	C
ATOM	3152	CD2	PHE	268	77.344	9.578	-34.681	1.00272.23	C
ATOM	3153	CE1	PHE	268	79.131	8.935	-32.602	1.00272.23	C
ATOM	3154	CE2	PHE	268	78.733	9.677	-34.890	1.00272.23	C
ATOM	3155	CZ	PHE	268	79.628	9.354	-33.851	1.00272.23	C
ATOM	3156	H	PHE	268	74.602	7.747	-35.281	1.00 0.00	H
ATOM	3157	HA	PHE	268	75.598	6.980	-32.719	1.00 0.00	H
ATOM	3158	2HB	PHE	268	74.806	9.616	-33.964	1.00 0.00	H
ATOM	3159	HB3	PHE	268	75.133	9.548	-32.266	1.00 0.00	H
ATOM	3160	HD1	PHE	268	77.367	8.515	-31.433	1.00 0.00	H
ATOM	3161	HD2	PHE	268	76.662	9.830	-35.483	1.00 0.00	H
ATOM	3162	HE1	PHE	268	79.814	8.690	-31.803	1.00 0.00	H
ATOM	3163	HE2	PHE	268	79.103	10.000	-35.852	1.00 0.00	H
ATOM	3164	HZ	PHE	268	80.692	9.431	-34.015	1.00 0.00	H
ATOM	3165	N	PRO	269	73.431	6.708	-31.247	1.00174.90	N
ATOM	3166	CA	PRO	269	72.206	6.366	-30.502	1.00174.90	C
ATOM	3167	C	PRO	269	71.214	7.509	-30.216	1.00174.90	C
ATOM	3168	O	PRO	269	71.438	8.328	-29.327	1.00174.90	O
ATOM	3169	CD	PRO	269	74.565	5.951	-30.693	1.00174.90	C
ATOM	3170	CB	PRO	269	72.704	5.709	-29.204	1.00174.90	C
ATOM	3171	CG	PRO	269	74.002	5.041	-29.602	1.00174.90	C
ATOM	3172	HA	PRO	269	71.698	5.606	-31.098	1.00 0.00	H
ATOM	3173	HD3	PRO	269	75.068	5.339	-31.443	1.00 0.00	H
ATOM	3174	2HD	PRO	269	75.291	6.650	-30.274	1.00 0.00	H
ATOM	3175	2HB	PRO	269	72.930	6.458	-28.446	1.00 0.00	H
ATOM	3176	HB3	PRO	269	71.986	5.012	-28.773	1.00 0.00	H
ATOM	3177	HG3	PRO	269	73.791	4.056	-30.022	1.00 0.00	H
ATOM	3178	2HG	PRO	269	74.689	4.906	-28.765	1.00 0.00	H
ATOM	3179	N	HIS	270	70.089	7.503	-30.940	1.00 83.82	N
ATOM	3180	CA	HIS	270	68.929	8.385	-30.767	1.00 83.82	C
ATOM	3181	C	HIS	270	67.953	7.818	-29.714	1.00 83.82	C
ATOM	3182	O	HIS	270	67.002	8.488	-29.296	1.00 83.82	O

ATOM	3183	ND1	HIS	270	68.805	6.606	-33.783	1.00	83.82	N
ATOM	3184	CG	HIS	270	67.960	7.098	-32.798	1.00	83.82	C
ATOM	3185	CB	HIS	270	68.165	8.434	-32.116	1.00	83.82	C
ATOM	3186	NE2	HIS	270	67.277	5.034	-33.447	1.00	83.82	N
ATOM	3187	CD2	HIS	270	67.020	6.111	-32.598	1.00	83.82	C
ATOM	3188	CE1	HIS	270	68.349	5.406	-34.138	1.00	83.82	C
ATOM	3189	H	HIS	270	70.032	6.868	-31.726	1.00	0.00	H
ATOM	3190	HA	HIS	270	69.234	9.389	-30.465	1.00	0.00	H
ATOM	3191	HD1	HIS	270	69.570	7.080	-34.280	1.00	0.00	H
ATOM	3192	2HB	HIS	270	67.189	8.902	-31.984	1.00	0.00	H
ATOM	3193	HB3	HIS	270	68.692	9.079	-32.814	1.00	0.00	H
ATOM	3194	HD2	HIS	270	66.191	6.088	-31.906	1.00	0.00	H
ATOM	3195	HE1	HIS	270	68.801	4.807	-34.917	1.00	0.00	H
ATOM	3196	N	ILE	271	68.156	6.555	-29.319	1.00	151.70	N
ATOM	3197	CA	ILE	271	67.383	5.824	-28.329	1.00	151.70	C
ATOM	3198	C	ILE	271	67.803	6.321	-26.930	1.00	151.70	C
ATOM	3199	O	ILE	271	68.989	6.438	-26.626	1.00	151.70	O
ATOM	3200	CB	ILE	271	67.596	4.302	-28.567	1.00	151.70	C
ATOM	3201	CG2	ILE	271	69.055	3.827	-28.401	1.00	151.70	C
ATOM	3202	CG1	ILE	271	66.642	3.426	-27.732	1.00	151.70	C
ATOM	3203	CD1	ILE	271	65.153	3.581	-28.082	1.00	151.70	C
ATOM	3204	H	ILE	271	68.991	6.114	-29.668	1.00	0.00	H
ATOM	3205	HA	ILE	271	66.333	6.062	-28.492	1.00	0.00	H
ATOM	3206	HB	ILE	271	67.342	4.111	-29.611	1.00	0.00	H
ATOM	3207	1HG2	ILE	271	69.157	2.777	-28.679	1.00	0.00	H
ATOM	3208	2HG2	ILE	271	69.737	4.390	-29.037	1.00	0.00	H
ATOM	3209	3HG2	ILE	271	69.402	3.922	-27.372	1.00	0.00	H
ATOM	3210	2HG1	ILE	271	66.910	2.376	-27.859	1.00	0.00	H
ATOM	3211	HG13	ILE	271	66.789	3.639	-26.678	1.00	0.00	H
ATOM	3212	1HD1	ILE	271	64.560	2.848	-27.534	1.00	0.00	H
ATOM	3213	2HD1	ILE	271	64.769	4.567	-27.825	1.00	0.00	H
ATOM	3214	3HD1	ILE	271	64.978	3.412	-29.145	1.00	0.00	H
ATOM	3215	N	ASP	272	66.801	6.690	-26.128	1.00	143.70	N
ATOM	3216	CA	ASP	272	66.808	7.584	-24.954	1.00	143.70	C
ATOM	3217	C	ASP	272	67.876	7.272	-23.903	1.00	143.70	C
ATOM	3218	O	ASP	272	68.500	8.172	-23.341	1.00	143.70	O
ATOM	3219	CB	ASP	272	65.394	7.662	-24.324	1.00	143.70	C
ATOM	3220	CG	ASP	272	64.303	7.694	-25.382	1.00	143.70	C
ATOM	3221	OD1	ASP	272	64.073	8.784	-25.941	1.00	143.70	O
ATOM	3222	OD2	ASP	272	63.925	6.584	-25.826	1.00	143.70	O1-
ATOM	3223	H	ASP	272	65.864	6.462	-26.440	1.00	0.00	H
ATOM	3224	HA	ASP	272	67.041	8.574	-25.350	1.00	0.00	H
ATOM	3225	2HB	ASP	272	65.216	6.805	-23.672	1.00	0.00	H
ATOM	3226	HB3	ASP	272	65.309	8.548	-23.693	1.00	0.00	H
ATOM	3227	N	GLU	273	68.132	5.982	-23.693	1.00	84.97	N
ATOM	3228	CA	GLU	273	69.195	5.359	-22.923	1.00	84.97	C
ATOM	3229	C	GLU	273	70.611	5.895	-23.224	1.00	84.97	C
ATOM	3230	O	GLU	273	71.478	5.814	-22.357	1.00	84.97	O
ATOM	3231	CB	GLU	273	69.100	3.804	-22.969	1.00	84.97	C
ATOM	3232	CG	GLU	273	68.248	3.135	-24.083	1.00	84.97	C
ATOM	3233	CD	GLU	273	66.727	3.214	-23.939	1.00	84.97	C
ATOM	3234	OE1	GLU	273	66.204	4.176	-23.336	1.00	84.97	O
ATOM	3235	OE2	GLU	273	66.021	2.429	-24.599	1.00	84.97	O1-
ATOM	3236	H	GLU	273	67.392	5.334	-23.968	1.00	0.00	H
ATOM	3237	HA	GLU	273	69.005	5.665	-21.896	1.00	0.00	H
ATOM	3238	2HB	GLU	273	70.102	3.374	-22.995	1.00	0.00	H

ATOM	3239	HB3	GLU	273	68.688	3.465	-22.019	1.00	0.00	H
ATOM	3240	2HG	GLU	273	68.531	3.536	-25.056	1.00	0.00	H
ATOM	3241	HG3	GLU	273	68.496	2.074	-24.116	1.00	0.00	H
ATOM	3242	N	THR	274	70.827	6.523	-24.391	1.00	108.72	N
ATOM	3243	CA	THR	274	71.969	7.374	-24.746	1.00	108.72	C
ATOM	3244	C	THR	274	72.304	8.397	-23.632	1.00	108.72	C
ATOM	3245	O	THR	274	73.440	8.492	-23.164	1.00	108.72	O
ATOM	3246	CB	THR	274	71.704	7.991	-26.153	1.00	108.72	C
ATOM	3247	OG1	THR	274	72.869	8.523	-26.744	1.00	108.72	O
ATOM	3248	CG2	THR	274	70.636	9.101	-26.200	1.00	108.72	C
ATOM	3249	H	THR	274	70.063	6.509	-25.063	1.00	0.00	H
ATOM	3250	HA	THR	274	72.831	6.714	-24.833	1.00	0.00	H
ATOM	3251	HB	THR	274	71.389	7.185	-26.814	1.00	0.00	H
ATOM	3252	HG1	THR	274	72.646	8.724	-27.651	1.00	0.00	H
ATOM	3253	1HG2	THR	274	70.383	9.370	-27.225	1.00	0.00	H
ATOM	3254	2HG2	THR	274	69.711	8.794	-25.718	1.00	0.00	H
ATOM	3255	3HG2	THR	274	70.979	10.012	-25.709	1.00	0.00	H
ATOM	3256	N	TYR	275	71.270	9.077	-23.115	1.00	183.88	N
ATOM	3257	CA	TYR	275	71.389	10.086	-22.073	1.00	183.88	C
ATOM	3258	C	TYR	275	71.562	9.422	-20.699	1.00	183.88	C
ATOM	3259	O	TYR	275	72.272	9.969	-19.858	1.00	183.88	O
ATOM	3260	CB	TYR	275	70.111	10.954	-22.052	1.00	183.88	C
ATOM	3261	CG	TYR	275	69.832	11.678	-23.361	1.00	183.88	C
ATOM	3262	CD1	TYR	275	70.712	12.681	-23.819	1.00	183.88	C
ATOM	3263	CD2	TYR	275	68.711	11.327	-24.144	1.00	183.88	C
ATOM	3264	CE1	TYR	275	70.495	13.296	-25.068	1.00	183.88	C
ATOM	3265	CE2	TYR	275	68.503	11.929	-25.400	1.00	183.88	C
ATOM	3266	CZ	TYR	275	69.404	12.904	-25.866	1.00	183.88	C
ATOM	3267	OH	TYR	275	69.232	13.467	-27.095	1.00	183.88	O
ATOM	3268	H	TYR	275	70.344	8.897	-23.489	1.00	0.00	H
ATOM	3269	HA	TYR	275	72.259	10.716	-22.272	1.00	0.00	H
ATOM	3270	2HB	TYR	275	69.244	10.347	-21.785	1.00	0.00	H
ATOM	3271	HB3	TYR	275	70.195	11.710	-21.269	1.00	0.00	H
ATOM	3272	HD1	TYR	275	71.571	12.969	-23.231	1.00	0.00	H
ATOM	3273	HD2	TYR	275	68.013	10.578	-23.801	1.00	0.00	H
ATOM	3274	HE1	TYR	275	71.182	14.049	-25.425	1.00	0.00	H
ATOM	3275	HE2	TYR	275	67.654	11.631	-25.997	1.00	0.00	H
ATOM	3276	HH	TYR	275	68.782	12.895	-27.707	1.00	0.00	H
ATOM	3277	N	LEU	276	70.970	8.237	-20.464	1.00	122.29	N
ATOM	3278	CA	LEU	276	71.107	7.503	-19.200	1.00	122.29	C
ATOM	3279	C	LEU	276	72.520	6.907	-19.056	1.00	122.29	C
ATOM	3280	O	LEU	276	73.062	6.897	-17.951	1.00	122.29	O
ATOM	3281	CB	LEU	276	69.942	6.485	-19.006	1.00	122.29	C
ATOM	3282	CG	LEU	276	70.126	4.957	-19.227	1.00	122.29	C
ATOM	3283	CD1	LEU	276	70.936	4.242	-18.124	1.00	122.29	C
ATOM	3284	CD2	LEU	276	68.741	4.287	-19.305	1.00	122.29	C
ATOM	3285	H	LEU	276	70.484	7.798	-21.234	1.00	0.00	H
ATOM	3286	HA	LEU	276	70.987	8.239	-18.407	1.00	0.00	H
ATOM	3287	2HB	LEU	276	69.585	6.616	-17.987	1.00	0.00	H
ATOM	3288	HB3	LEU	276	69.105	6.825	-19.617	1.00	0.00	H
ATOM	3289	HG	LEU	276	70.624	4.789	-20.181	1.00	0.00	H
ATOM	3290	1HD1	LEU	276	70.854	3.159	-18.223	1.00	0.00	H
ATOM	3291	2HD1	LEU	276	72.001	4.459	-18.165	1.00	0.00	H
ATOM	3292	3HD1	LEU	276	70.583	4.506	-17.127	1.00	0.00	H
ATOM	3293	1HD2	LEU	276	68.824	3.232	-19.566	1.00	0.00	H
ATOM	3294	2HD2	LEU	276	68.213	4.347	-18.353	1.00	0.00	H

ATOM	3295	3HD2 LEU	276	68.101	4.753	-20.053	1.00	0.00	H
ATOM	3296	N MET	277	73.150	6.487	-20.163	1.00	69.45	N
ATOM	3297	CA MET	277	74.531	5.998	-20.205	1.00	69.45	C
ATOM	3298	C MET	277	75.561	7.111	-19.926	1.00	69.45	C
ATOM	3299	O MET	277	76.656	6.820	-19.450	1.00	69.45	O
ATOM	3300	CB MET	277	74.818	5.348	-21.574	1.00	69.45	C
ATOM	3301	CG MET	277	74.223	3.935	-21.696	1.00	69.45	C
ATOM	3302	SD MET	277	74.719	3.012	-23.177	1.00	69.45	S
ATOM	3303	CE MET	277	73.904	3.980	-24.475	1.00	69.45	C
ATOM	3304	H MET	277	72.622	6.474	-21.034	1.00	0.00	H
ATOM	3305	HA MET	277	74.659	5.248	-19.422	1.00	0.00	H
ATOM	3306	2HB MET	277	74.462	5.990	-22.381	1.00	0.00	H
ATOM	3307	HB3 MET	277	75.897	5.262	-21.716	1.00	0.00	H
ATOM	3308	2HG MET	277	74.538	3.340	-20.839	1.00	0.00	H
ATOM	3309	HG3 MET	277	73.134	3.971	-21.652	1.00	0.00	H
ATOM	3310	1HE MET	277	74.032	3.495	-25.442	1.00	0.00	H
ATOM	3311	2HE MET	277	72.837	4.072	-24.274	1.00	0.00	H
ATOM	3312	3HE MET	277	74.340	4.977	-24.535	1.00	0.00	H
ATOM	3313	N PHE	278	75.198	8.380	-20.149	1.00	86.53	N
ATOM	3314	CA PHE	278	75.956	9.539	-19.679	1.00	86.53	C
ATOM	3315	C PHE	278	75.630	9.784	-18.189	1.00	86.53	C
ATOM	3316	O PHE	278	76.539	9.873	-17.362	1.00	86.53	O
ATOM	3317	CB PHE	278	75.562	10.762	-20.537	1.00	86.53	C
ATOM	3318	CG PHE	278	76.256	12.071	-20.200	1.00	86.53	C
ATOM	3319	CD1 PHE	278	77.643	12.212	-20.413	1.00	86.53	C
ATOM	3320	CD2 PHE	278	75.512	13.161	-19.698	1.00	86.53	C
ATOM	3321	CE1 PHE	278	78.281	13.436	-20.133	1.00	86.53	C
ATOM	3322	CE2 PHE	278	76.148	14.387	-19.427	1.00	86.53	C
ATOM	3323	CZ PHE	278	77.533	14.525	-19.646	1.00	86.53	C
ATOM	3324	H PHE	278	74.304	8.535	-20.593	1.00	0.00	H
ATOM	3325	HA PHE	278	77.027	9.355	-19.782	1.00	0.00	H
ATOM	3326	2HB PHE	278	75.781	10.544	-21.584	1.00	0.00	H
ATOM	3327	HB3 PHE	278	74.487	10.926	-20.502	1.00	0.00	H
ATOM	3328	HD1 PHE	278	78.222	11.386	-20.801	1.00	0.00	H
ATOM	3329	HD2 PHE	278	74.448	13.068	-19.532	1.00	0.00	H
ATOM	3330	HE1 PHE	278	79.342	13.542	-20.305	1.00	0.00	H
ATOM	3331	HE2 PHE	278	75.570	15.224	-19.062	1.00	0.00	H
ATOM	3332	HZ PHE	278	78.021	15.467	-19.448	1.00	0.00	H
ATOM	3333	N TRP	279	74.334	9.814	-17.833	1.00	175.14	N
ATOM	3334	CA TRP	279	73.785	10.063	-16.494	1.00	175.14	C
ATOM	3335	C TRP	279	74.415	9.186	-15.406	1.00	175.14	C
ATOM	3336	O TRP	279	74.856	9.692	-14.374	1.00	175.14	O
ATOM	3337	CB TRP	279	72.258	9.858	-16.523	1.00	175.14	C
ATOM	3338	CG TRP	279	71.442	10.563	-15.490	1.00	175.14	C
ATOM	3339	CD2 TRP	279	70.519	11.669	-15.702	1.00	175.14	C
ATOM	3340	CD1 TRP	279	71.378	10.267	-14.173	1.00	175.14	C
ATOM	3341	NE1 TRP	279	70.492	11.127	-13.554	1.00	175.14	N
ATOM	3342	CE2 TRP	279	69.936	12.018	-14.448	1.00	175.14	C
ATOM	3343	CE3 TRP	279	70.115	12.414	-16.836	1.00	175.14	C
ATOM	3344	CZ2 TRP	279	69.015	13.069	-14.323	1.00	175.14	C
ATOM	3345	CZ3 TRP	279	69.192	13.470	-16.722	1.00	175.14	C
ATOM	3346	CH2 TRP	279	68.651	13.806	-15.466	1.00	175.14	C
ATOM	3347	H TRP	279	73.657	9.728	-18.586	1.00	0.00	H
ATOM	3348	HA TRP	279	73.998	11.107	-16.259	1.00	0.00	H
ATOM	3349	2HB TRP	279	71.860	10.202	-17.472	1.00	0.00	H
ATOM	3350	HB3 TRP	279	72.012	8.799	-16.460	1.00	0.00	H

ATOM	3351	HD1 TRP	279	71.941	9.478	-13.692	1.00	0.00	H
ATOM	3352	HE1 TRP	279	70.308	11.094	-12.559	1.00	0.00	H
ATOM	3353	HE3 TRP	279	70.533	12.178	-17.803	1.00	0.00	H
ATOM	3354	HZ2 TRP	279	68.590	13.313	-13.361	1.00	0.00	H
ATOM	3355	HZ3 TRP	279	68.912	14.032	-17.599	1.00	0.00	H
ATOM	3356	HH2 TRP	279	67.954	14.626	-15.379	1.00	0.00	H
ATOM	3357	N ILE	280	74.492	7.872	-15.659	1.00	97.82	N
ATOM	3358	CA ILE	280	75.009	6.858	-14.742	1.00	97.82	C
ATOM	3359	C ILE	280	76.491	7.100	-14.361	1.00	97.82	C
ATOM	3360	O ILE	280	76.904	6.785	-13.242	1.00	97.82	O
ATOM	3361	CB ILE	280	74.750	5.449	-15.355	1.00	97.82	C
ATOM	3362	CG2 ILE	280	75.629	5.155	-16.587	1.00	97.82	C
ATOM	3363	CG1 ILE	280	74.847	4.314	-14.310	1.00	97.82	C
ATOM	3364	CD1 ILE	280	74.414	2.938	-14.837	1.00	97.82	C
ATOM	3365	H ILE	280	74.096	7.545	-16.539	1.00	0.00	H
ATOM	3366	HA ILE	280	74.410	6.961	-13.840	1.00	0.00	H
ATOM	3367	HB ILE	280	73.714	5.450	-15.702	1.00	0.00	H
ATOM	3368	1HG2 ILE	280	75.259	4.298	-17.150	1.00	0.00	H
ATOM	3369	2HG2 ILE	280	75.632	6.002	-17.268	1.00	0.00	H
ATOM	3370	3HG2 ILE	280	76.664	4.951	-16.314	1.00	0.00	H
ATOM	3371	2HG1 ILE	280	75.860	4.247	-13.911	1.00	0.00	H
ATOM	3372	HG13 ILE	280	74.199	4.555	-13.469	1.00	0.00	H
ATOM	3373	1HD1 ILE	280	74.401	2.203	-14.031	1.00	0.00	H
ATOM	3374	2HD1 ILE	280	73.412	2.974	-15.267	1.00	0.00	H
ATOM	3375	3HD1 ILE	280	75.095	2.564	-15.601	1.00	0.00	H
ATOM	3376	N GLY	281	77.265	7.737	-15.249	1.00	30.55	N
ATOM	3377	CA GLY	281	78.702	7.937	-15.105	1.00	30.55	C
ATOM	3378	C GLY	281	79.043	9.329	-14.568	1.00	30.55	C
ATOM	3379	O GLY	281	80.128	9.514	-14.025	1.00	30.55	O
ATOM	3380	H GLY	281	76.839	8.048	-16.116	1.00	0.00	H
ATOM	3381	2HA GLY	281	79.152	7.174	-14.469	1.00	0.00	H
ATOM	3382	HA3 GLY	281	79.163	7.832	-16.088	1.00	0.00	H
ATOM	3383	N VAL	282	78.110	10.286	-14.645	1.00	63.11	N
ATOM	3384	CA VAL	282	78.232	11.595	-14.007	1.00	63.11	C
ATOM	3385	C VAL	282	77.605	11.542	-12.596	1.00	63.11	C
ATOM	3386	O VAL	282	78.140	12.148	-11.668	1.00	63.11	O
ATOM	3387	CB VAL	282	77.505	12.653	-14.889	1.00	63.11	C
ATOM	3388	CG1 VAL	282	77.480	14.067	-14.267	1.00	63.11	C
ATOM	3389	CG2 VAL	282	78.136	12.748	-16.293	1.00	63.11	C
ATOM	3390	H VAL	282	77.271	10.085	-15.174	1.00	0.00	H
ATOM	3391	HA VAL	282	79.282	11.879	-13.905	1.00	0.00	H
ATOM	3392	HB VAL	282	76.469	12.333	-15.018	1.00	0.00	H
ATOM	3393	1HG1 VAL	282	77.065	14.799	-14.960	1.00	0.00	H
ATOM	3394	2HG1 VAL	282	76.866	14.108	-13.367	1.00	0.00	H
ATOM	3395	3HG1 VAL	282	78.484	14.400	-14.002	1.00	0.00	H
ATOM	3396	1HG2 VAL	282	77.590	13.450	-16.924	1.00	0.00	H
ATOM	3397	2HG2 VAL	282	79.171	13.085	-16.242	1.00	0.00	H
ATOM	3398	3HG2 VAL	282	78.133	11.794	-16.817	1.00	0.00	H
ATOM	3399	N THR	283	76.463	10.859	-12.423	1.00	229.72	N
ATOM	3400	CA THR	283	75.599	11.005	-11.254	1.00	229.72	C
ATOM	3401	C THR	283	74.897	9.685	-10.863	1.00	229.72	C
ATOM	3402	O THR	283	73.725	9.663	-10.496	1.00	229.72	O
ATOM	3403	CB THR	283	74.762	12.312	-11.388	1.00	229.72	C
ATOM	3404	OG1 THR	283	74.137	12.687	-10.178	1.00	229.72	O
ATOM	3405	CG2 THR	283	73.695	12.273	-12.487	1.00	229.72	C
ATOM	3406	H THR	283	76.039	10.398	-13.227	1.00	0.00	H

ATOM	3407	HA	THR	283	76.250	11.175	-10.394	1.00	0.00	H
ATOM	3408	HB	THR	283	75.442	13.128	-11.624	1.00	0.00	H
ATOM	3409	HG1	THR	283	73.708	13.518	-10.310	1.00	0.00	H
ATOM	3410	1HG2	THR	283	73.156	13.216	-12.545	1.00	0.00	H
ATOM	3411	2HG2	THR	283	74.136	12.092	-13.467	1.00	0.00	H
ATOM	3412	3HG2	THR	283	72.968	11.486	-12.298	1.00	0.00	H
ATOM	3413	N	SER	284	75.626	8.560	-10.899	1.00	186.11	N
ATOM	3414	CA	SER	284	75.227	7.319	-10.226	1.00	186.11	C
ATOM	3415	C	SER	284	76.453	6.616	-9.628	1.00	186.11	C
ATOM	3416	O	SER	284	76.435	6.235	-8.458	1.00	186.11	O
ATOM	3417	CB	SER	284	74.292	6.452	-11.090	1.00	186.11	C
ATOM	3418	OG	SER	284	73.693	5.403	-10.351	1.00	186.11	O
ATOM	3419	H	SER	284	76.543	8.605	-11.317	1.00	0.00	H
ATOM	3420	HA	SER	284	74.635	7.609	-9.353	1.00	0.00	H
ATOM	3421	2HB	SER	284	73.501	7.062	-11.529	1.00	0.00	H
ATOM	3422	HB3	SER	284	74.860	6.005	-11.900	1.00	0.00	H
ATOM	3423	HG	SER	284	73.011	5.007	-10.875	1.00	0.00	H
ATOM	3424	N	VAL	285	77.584	6.568	-10.352	1.00	127.78	N
ATOM	3425	CA	VAL	285	78.879	6.111	-9.822	1.00	127.78	C
ATOM	3426	C	VAL	285	79.363	6.918	-8.594	1.00	127.78	C
ATOM	3427	O	VAL	285	80.070	6.385	-7.741	1.00	127.78	O
ATOM	3428	CB	VAL	285	79.947	6.083	-10.943	1.00	127.78	C
ATOM	3429	CG1	VAL	285	79.654	4.989	-11.985	1.00	127.78	C
ATOM	3430	CG2	VAL	285	80.158	7.448	-11.620	1.00	127.78	C
ATOM	3431	H	VAL	285	77.527	6.762	-11.348	1.00	0.00	H
ATOM	3432	HA	VAL	285	78.735	5.090	-9.467	1.00	0.00	H
ATOM	3433	HB	VAL	285	80.898	5.810	-10.479	1.00	0.00	H
ATOM	3434	1HG1	VAL	285	80.445	4.936	-12.734	1.00	0.00	H
ATOM	3435	2HG1	VAL	285	79.587	4.006	-11.517	1.00	0.00	H
ATOM	3436	3HG1	VAL	285	78.718	5.161	-12.513	1.00	0.00	H
ATOM	3437	1HG2	VAL	285	80.910	7.384	-12.407	1.00	0.00	H
ATOM	3438	2HG2	VAL	285	79.241	7.818	-12.076	1.00	0.00	H
ATOM	3439	3HG2	VAL	285	80.503	8.206	-10.917	1.00	0.00	H
ATOM	3440	N	LEU	286	78.923	8.178	-8.449	1.00	160.91	N
ATOM	3441	CA	LEU	286	79.180	9.002	-7.269	1.00	160.91	C
ATOM	3442	C	LEU	286	78.355	8.520	-6.056	1.00	160.91	C
ATOM	3443	O	LEU	286	78.818	8.640	-4.924	1.00	160.91	O
ATOM	3444	CB	LEU	286	78.838	10.475	-7.587	1.00	160.91	C
ATOM	3445	CG	LEU	286	79.317	11.494	-6.523	1.00	160.91	C
ATOM	3446	CD1	LEU	286	80.851	11.550	-6.413	1.00	160.91	C
ATOM	3447	CD2	LEU	286	78.765	12.886	-6.833	1.00	160.91	C
ATOM	3448	H	LEU	286	78.356	8.559	-9.189	1.00	0.00	H
ATOM	3449	HA	LEU	286	80.240	8.917	-7.038	1.00	0.00	H
ATOM	3450	2HB	LEU	286	79.276	10.750	-8.548	1.00	0.00	H
ATOM	3451	HB3	LEU	286	77.759	10.572	-7.719	1.00	0.00	H
ATOM	3452	HG	LEU	286	78.919	11.216	-5.547	1.00	0.00	H
ATOM	3453	1HD1	LEU	286	81.167	12.350	-5.744	1.00	0.00	H
ATOM	3454	2HD1	LEU	286	81.269	10.627	-6.013	1.00	0.00	H
ATOM	3455	3HD1	LEU	286	81.315	11.738	-7.382	1.00	0.00	H
ATOM	3456	1HD2	LEU	286	79.040	13.598	-6.055	1.00	0.00	H
ATOM	3457	2HD2	LEU	286	79.153	13.252	-7.783	1.00	0.00	H
ATOM	3458	3HD2	LEU	286	77.678	12.879	-6.893	1.00	0.00	H
ATOM	3459	N	LEU	287	77.178	7.917	-6.282	1.00	149.15	N
ATOM	3460	CA	LEU	287	76.332	7.309	-5.252	1.00	149.15	C
ATOM	3461	C	LEU	287	77.016	6.023	-4.741	1.00	149.15	C
ATOM	3462	O	LEU	287	77.071	5.787	-3.534	1.00	149.15	O

ATOM	3463	CB	LEU	287	74.935	6.999	-5.849	1.00149.15	C
ATOM	3464	CG	LEU	287	73.745	7.190	-4.880	1.00149.15	C
ATOM	3465	CD1	LEU	287	72.417	7.129	-5.650	1.00149.15	C
ATOM	3466	CD2	LEU	287	73.733	6.180	-3.720	1.00149.15	C
ATOM	3467	H	LEU	287	76.920	7.721	-7.241	1.00 0.00	H
ATOM	3468	HA	LEU	287	76.214	8.026	-4.441	1.00 0.00	H
ATOM	3469	2HB	LEU	287	74.764	7.668	-6.694	1.00 0.00	H
ATOM	3470	HB3	LEU	287	74.904	5.995	-6.278	1.00 0.00	H
ATOM	3471	HG	LEU	287	73.816	8.191	-4.451	1.00 0.00	H
ATOM	3472	1HD1	LEU	287	71.566	7.321	-4.995	1.00 0.00	H
ATOM	3473	2HD1	LEU	287	72.386	7.875	-6.446	1.00 0.00	H
ATOM	3474	3HD1	LEU	287	72.267	6.152	-6.111	1.00 0.00	H
ATOM	3475	1HD2	LEU	287	72.834	6.290	-3.112	1.00 0.00	H
ATOM	3476	2HD2	LEU	287	73.760	5.153	-4.085	1.00 0.00	H
ATOM	3477	3HD2	LEU	287	74.582	6.322	-3.052	1.00 0.00	H
ATOM	3478	N	LEU	288	77.633	5.250	-5.649	1.00 48.39	N
ATOM	3479	CA	LEU	288	78.477	4.098	-5.322	1.00 48.39	C
ATOM	3480	C	LEU	288	79.756	4.536	-4.574	1.00 48.39	C
ATOM	3481	O	LEU	288	80.175	3.881	-3.619	1.00 48.39	O
ATOM	3482	CB	LEU	288	78.859	3.321	-6.604	1.00 48.39	C
ATOM	3483	CG	LEU	288	77.677	2.864	-7.491	1.00 48.39	C
ATOM	3484	CD1	LEU	288	78.191	2.134	-8.742	1.00 48.39	C
ATOM	3485	CD2	LEU	288	76.673	1.976	-6.735	1.00 48.39	C
ATOM	3486	H	LEU	288	77.510	5.493	-6.623	1.00 0.00	H
ATOM	3487	HA	LEU	288	77.914	3.432	-4.670	1.00 0.00	H
ATOM	3488	2HB	LEU	288	79.537	3.924	-7.209	1.00 0.00	H
ATOM	3489	HB3	LEU	288	79.440	2.444	-6.314	1.00 0.00	H
ATOM	3490	HG	LEU	288	77.138	3.746	-7.837	1.00 0.00	H
ATOM	3491	1HD1	LEU	288	77.370	1.879	-9.413	1.00 0.00	H
ATOM	3492	2HD1	LEU	288	78.893	2.748	-9.307	1.00 0.00	H
ATOM	3493	3HD1	LEU	288	78.703	1.207	-8.481	1.00 0.00	H
ATOM	3494	1HD2	LEU	288	75.879	1.633	-7.400	1.00 0.00	H
ATOM	3495	2HD2	LEU	288	77.156	1.093	-6.315	1.00 0.00	H
ATOM	3496	3HD2	LEU	288	76.189	2.516	-5.922	1.00 0.00	H
ATOM	3497	N	PHE	289	80.349	5.675	-4.963	1.00 84.76	N
ATOM	3498	CA	PHE	289	81.528	6.258	-4.325	1.00 84.76	C
ATOM	3499	C	PHE	289	81.265	6.650	-2.860	1.00 84.76	C
ATOM	3500	O	PHE	289	82.075	6.309	-2.004	1.00 84.76	O
ATOM	3501	CB	PHE	289	82.046	7.471	-5.127	1.00 84.76	C
ATOM	3502	CG	PHE	289	83.340	8.070	-4.598	1.00 84.76	C
ATOM	3503	CD1	PHE	289	84.575	7.459	-4.898	1.00 84.76	C
ATOM	3504	CD2	PHE	289	83.308	9.215	-3.772	1.00 84.76	C
ATOM	3505	CE1	PHE	289	85.770	7.983	-4.367	1.00 84.76	C
ATOM	3506	CE2	PHE	289	84.502	9.732	-3.235	1.00 84.76	C
ATOM	3507	CZ	PHE	289	85.734	9.117	-3.533	1.00 84.76	C
ATOM	3508	H	PHE	289	80.004	6.109	-5.813	1.00 0.00	H
ATOM	3509	HA	PHE	289	82.308	5.494	-4.332	1.00 0.00	H
ATOM	3510	2HB	PHE	289	82.205	7.186	-6.168	1.00 0.00	H
ATOM	3511	HB3	PHE	289	81.296	8.258	-5.141	1.00 0.00	H
ATOM	3512	HD1	PHE	289	84.612	6.581	-5.528	1.00 0.00	H
ATOM	3513	HD2	PHE	289	82.366	9.687	-3.533	1.00 0.00	H
ATOM	3514	HE1	PHE	289	86.714	7.509	-4.597	1.00 0.00	H
ATOM	3515	HE2	PHE	289	84.473	10.598	-2.590	1.00 0.00	H
ATOM	3516	HZ	PHE	289	86.651	9.512	-3.123	1.00 0.00	H
ATOM	3517	N	ILE	290	80.156	7.336	-2.538	1.00116.48	N
ATOM	3518	CA	ILE	290	79.880	7.783	-1.165	1.00116.48	C

ATOM	3519	C	ILE	290	79.604	6.614	-0.192	1.00116.48	C
ATOM	3520	O	ILE	290	80.004	6.703	0.971	1.00116.48	O
ATOM	3521	CB	ILE	290	78.757	8.860	-1.121	1.00116.48	C
ATOM	3522	CG2	ILE	290	79.256	10.176	-1.753	1.00116.48	C
ATOM	3523	CG1	ILE	290	77.424	8.395	-1.745	1.00116.48	C
ATOM	3524	CD1	ILE	290	76.259	9.388	-1.629	1.00116.48	C
ATOM	3525	H	ILE	290	79.519	7.615	-3.278	1.00 0.00	H
ATOM	3526	HA	ILE	290	80.791	8.258	-0.795	1.00 0.00	H
ATOM	3527	HB	ILE	290	78.562	9.076	-0.069	1.00 0.00	H
ATOM	3528	1HG2	ILE	290	78.543	10.987	-1.614	1.00 0.00	H
ATOM	3529	2HG2	ILE	290	80.192	10.500	-1.299	1.00 0.00	H
ATOM	3530	3HG2	ILE	290	79.429	10.073	-2.824	1.00 0.00	H
ATOM	3531	2HG1	ILE	290	77.594	8.186	-2.793	1.00 0.00	H
ATOM	3532	HG13	ILE	290	77.107	7.451	-1.301	1.00 0.00	H
ATOM	3533	1HD1	ILE	290	75.344	8.950	-2.029	1.00 0.00	H
ATOM	3534	2HD1	ILE	290	76.068	9.656	-0.592	1.00 0.00	H
ATOM	3535	3HD1	ILE	290	76.447	10.303	-2.191	1.00 0.00	H
ATOM	3536	N	VAL	291	78.988	5.506	-0.643	1.00103.92	N
ATOM	3537	CA	VAL	291	78.815	4.311	0.194	1.00103.92	C
ATOM	3538	C	VAL	291	80.144	3.535	0.330	1.00103.92	C
ATOM	3539	O	VAL	291	80.431	3.021	1.410	1.00103.92	O
ATOM	3540	CB	VAL	291	77.661	3.404	-0.318	1.00103.92	C
ATOM	3541	CG1	VAL	291	76.300	4.119	-0.230	1.00103.92	C
ATOM	3542	CG2	VAL	291	77.851	2.828	-1.728	1.00103.92	C
ATOM	3543	H	VAL	291	78.668	5.474	-1.603	1.00 0.00	H
ATOM	3544	HA	VAL	291	78.544	4.634	1.200	1.00 0.00	H
ATOM	3545	HB	VAL	291	77.607	2.550	0.360	1.00 0.00	H
ATOM	3546	1HG1	VAL	291	75.487	3.453	-0.520	1.00 0.00	H
ATOM	3547	2HG1	VAL	291	76.092	4.455	0.784	1.00 0.00	H
ATOM	3548	3HG1	VAL	291	76.256	4.988	-0.887	1.00 0.00	H
ATOM	3549	1HG2	VAL	291	77.030	2.162	-1.995	1.00 0.00	H
ATOM	3550	2HG2	VAL	291	77.865	3.627	-2.461	1.00 0.00	H
ATOM	3551	3HG2	VAL	291	78.772	2.254	-1.829	1.00 0.00	H
ATOM	3552	N	TYR	292	80.991	3.525	-0.711	1.00 53.42	N
ATOM	3553	CA	TYR	292	82.351	2.979	-0.677	1.00 53.42	C
ATOM	3554	C	TYR	292	83.247	3.808	0.267	1.00 53.42	C
ATOM	3555	O	TYR	292	83.895	3.257	1.153	1.00 53.42	O
ATOM	3556	CB	TYR	292	82.923	2.940	-2.112	1.00 53.42	C
ATOM	3557	CG	TYR	292	84.357	2.450	-2.232	1.00 53.42	C
ATOM	3558	CD1	TYR	292	84.671	1.103	-1.954	1.00 53.42	C
ATOM	3559	CD2	TYR	292	85.384	3.344	-2.604	1.00 53.42	C
ATOM	3560	CE1	TYR	292	86.003	0.656	-2.029	1.00 53.42	C
ATOM	3561	CE2	TYR	292	86.716	2.896	-2.680	1.00 53.42	C
ATOM	3562	CZ	TYR	292	87.027	1.555	-2.384	1.00 53.42	C
ATOM	3563	OH	TYR	292	88.327	1.146	-2.409	1.00 53.42	O
ATOM	3564	H	TYR	292	80.674	3.929	-1.587	1.00 0.00	H
ATOM	3565	HA	TYR	292	82.309	1.960	-0.292	1.00 0.00	H
ATOM	3566	2HB	TYR	292	82.302	2.289	-2.729	1.00 0.00	H
ATOM	3567	HB3	TYR	292	82.856	3.924	-2.572	1.00 0.00	H
ATOM	3568	HD1	TYR	292	83.895	0.407	-1.667	1.00 0.00	H
ATOM	3569	HD2	TYR	292	85.158	4.378	-2.822	1.00 0.00	H
ATOM	3570	HE1	TYR	292	86.227	-0.375	-1.794	1.00 0.00	H
ATOM	3571	HE2	TYR	292	87.502	3.585	-2.955	1.00 0.00	H
ATOM	3572	HH	TYR	292	88.415	0.211	-2.546	1.00 0.00	H
ATOM	3573	N	ALA	293	83.214	5.144	0.164	1.00 31.10	N
ATOM	3574	CA	ALA	293	83.950	6.073	1.023	1.00 31.10	C

ATOM	3575	C	ALA	293	83.511	5.984	2.495	1.00	31.10	C
ATOM	3576	O	ALA	293	84.326	6.190	3.395	1.00	31.10	O
ATOM	3577	CB	ALA	293	83.753	7.508	0.510	1.00	31.10	C
ATOM	3578	H	ALA	293	82.690	5.541	-0.618	1.00	0.00	H
ATOM	3579	HA	ALA	293	85.011	5.821	0.967	1.00	0.00	H
ATOM	3580	1HB	ALA	293	84.324	8.220	1.106	1.00	0.00	H
ATOM	3581	2HB	ALA	293	84.088	7.605	-0.524	1.00	0.00	H
ATOM	3582	3HB	ALA	293	82.705	7.806	0.550	1.00	0.00	H
ATOM	3583	N	TYR	294	82.244	5.620	2.751	1.00	59.45	N
ATOM	3584	CA	TYR	294	81.728	5.342	4.088	1.00	59.45	C
ATOM	3585	C	TYR	294	82.375	4.095	4.722	1.00	59.45	C
ATOM	3586	O	TYR	294	82.501	4.064	5.944	1.00	59.45	O
ATOM	3587	CB	TYR	294	80.184	5.230	4.086	1.00	59.45	C
ATOM	3588	CG	TYR	294	79.543	5.008	5.456	1.00	59.45	C
ATOM	3589	CD1	TYR	294	79.922	5.799	6.563	1.00	59.45	C
ATOM	3590	CD2	TYR	294	78.602	3.971	5.640	1.00	59.45	C
ATOM	3591	CE1	TYR	294	79.405	5.527	7.842	1.00	59.45	C
ATOM	3592	CE2	TYR	294	78.049	3.729	6.914	1.00	59.45	C
ATOM	3593	CZ	TYR	294	78.460	4.501	8.017	1.00	59.45	C
ATOM	3594	OH	TYR	294	77.949	4.258	9.258	1.00	59.45	O
ATOM	3595	H	TYR	294	81.622	5.494	1.960	1.00	0.00	H
ATOM	3596	HA	TYR	294	82.001	6.192	4.709	1.00	0.00	H
ATOM	3597	2HB	TYR	294	79.754	6.139	3.665	1.00	0.00	H
ATOM	3598	HB3	TYR	294	79.877	4.422	3.425	1.00	0.00	H
ATOM	3599	HD1	TYR	294	80.641	6.595	6.449	1.00	0.00	H
ATOM	3600	HD2	TYR	294	78.306	3.349	4.807	1.00	0.00	H
ATOM	3601	HE1	TYR	294	79.737	6.114	8.685	1.00	0.00	H
ATOM	3602	HE2	TYR	294	77.339	2.925	7.038	1.00	0.00	H
ATOM	3603	HH	TYR	294	78.638	4.363	9.930	1.00	0.00	H
ATOM	3604	N	MET	295	82.874	3.122	3.941	1.00	38.97	N
ATOM	3605	CA	MET	295	83.575	1.938	4.459	1.00	38.97	C
ATOM	3606	C	MET	295	84.858	2.346	5.205	1.00	38.97	C
ATOM	3607	O	MET	295	85.102	1.869	6.309	1.00	38.97	O
ATOM	3608	CB	MET	295	83.927	0.951	3.326	1.00	38.97	C
ATOM	3609	CG	MET	295	82.713	0.426	2.546	1.00	38.97	C
ATOM	3610	SD	MET	295	83.164	-0.638	1.153	1.00	38.97	S
ATOM	3611	CE	MET	295	81.517	-1.012	0.492	1.00	38.97	C
ATOM	3612	H	MET	295	82.807	3.221	2.932	1.00	0.00	H
ATOM	3613	HA	MET	295	82.916	1.434	5.168	1.00	0.00	H
ATOM	3614	2HB	MET	295	84.639	1.402	2.635	1.00	0.00	H
ATOM	3615	HB3	MET	295	84.452	0.094	3.752	1.00	0.00	H
ATOM	3616	2HG	MET	295	82.051	-0.128	3.213	1.00	0.00	H
ATOM	3617	HG3	MET	295	82.133	1.256	2.148	1.00	0.00	H
ATOM	3618	1HE	MET	295	81.603	-1.644	-0.392	1.00	0.00	H
ATOM	3619	2HE	MET	295	80.917	-1.541	1.233	1.00	0.00	H
ATOM	3620	3HE	MET	295	80.995	-0.097	0.211	1.00	0.00	H
ATOM	3621	N	TYR	296	85.604	3.317	4.658	1.00	107.42	N
ATOM	3622	CA	TYR	296	86.829	3.877	5.237	1.00	107.42	C
ATOM	3623	C	TYR	296	86.542	4.717	6.496	1.00	107.42	C
ATOM	3624	O	TYR	296	87.384	4.798	7.387	1.00	107.42	O
ATOM	3625	CB	TYR	296	87.511	4.803	4.212	1.00	107.42	C
ATOM	3626	CG	TYR	296	88.110	4.118	2.997	1.00	107.42	C
ATOM	3627	CD1	TYR	296	87.284	3.705	1.932	1.00	107.42	C
ATOM	3628	CD2	TYR	296	89.506	3.930	2.907	1.00	107.42	C
ATOM	3629	CE1	TYR	296	87.844	3.114	0.786	1.00	107.42	C
ATOM	3630	CE2	TYR	296	90.067	3.351	1.752	1.00	107.42	C

ATOM	3631	CZ	TYR	296	89.239	2.946	0.688	1.00107.42	C
ATOM	3632	OH	TYR	296	89.807	2.409	-0.428	1.00107.42	O
ATOM	3633	H	TYR	296	85.314	3.658	3.753	1.00 0.00	H
ATOM	3634	HA	TYR	296	87.511	3.066	5.497	1.00 0.00	H
ATOM	3635	2HB	TYR	296	86.810	5.564	3.870	1.00 0.00	H
ATOM	3636	HB3	TYR	296	88.315	5.360	4.699	1.00 0.00	H
ATOM	3637	HD1	TYR	296	86.215	3.841	1.974	1.00 0.00	H
ATOM	3638	HD2	TYR	296	90.161	4.238	3.711	1.00 0.00	H
ATOM	3639	HE1	TYR	296	87.190	2.799	-0.012	1.00 0.00	H
ATOM	3640	HE2	TYR	296	91.136	3.214	1.679	1.00 0.00	H
ATOM	3641	HH	TYR	296	89.200	2.068	-1.087	1.00 0.00	H
ATOM	3642	N	ILE	297	85.356	5.336	6.575	1.00 84.52	N
ATOM	3643	CA	ILE	297	84.901	6.109	7.731	1.00 84.52	C
ATOM	3644	C	ILE	297	84.390	5.138	8.817	1.00 84.52	C
ATOM	3645	O	ILE	297	84.699	5.335	9.989	1.00 84.52	O
ATOM	3646	CB	ILE	297	83.803	7.121	7.274	1.00 84.52	C
ATOM	3647	CG2	ILE	297	83.102	7.839	8.451	1.00 84.52	C
ATOM	3648	CG1	ILE	297	84.396	8.173	6.298	1.00 84.52	C
ATOM	3649	CD1	ILE	297	83.354	8.921	5.453	1.00 84.52	C
ATOM	3650	H	ILE	297	84.714	5.200	5.807	1.00 0.00	H
ATOM	3651	HA	ILE	297	85.742	6.665	8.152	1.00 0.00	H
ATOM	3652	HB	ILE	297	83.039	6.555	6.743	1.00 0.00	H
ATOM	3653	1HG2	ILE	297	82.361	8.559	8.108	1.00 0.00	H
ATOM	3654	2HG2	ILE	297	82.567	7.140	9.095	1.00 0.00	H
ATOM	3655	3HG2	ILE	297	83.823	8.373	9.072	1.00 0.00	H
ATOM	3656	2HG1	ILE	297	84.997	8.889	6.859	1.00 0.00	H
ATOM	3657	HG13	ILE	297	85.089	7.702	5.601	1.00 0.00	H
ATOM	3658	1HD1	ILE	297	83.836	9.687	4.845	1.00 0.00	H
ATOM	3659	2HD1	ILE	297	82.844	8.250	4.764	1.00 0.00	H
ATOM	3660	3HD1	ILE	297	82.595	9.412	6.059	1.00 0.00	H
ATOM	3661	N	LEU	298	83.667	4.071	8.442	1.00 60.31	N
ATOM	3662	CA	LEU	298	83.189	3.002	9.325	1.00 60.31	C
ATOM	3663	C	LEU	298	84.370	2.252	9.973	1.00 60.31	C
ATOM	3664	O	LEU	298	84.387	2.046	11.183	1.00 60.31	O
ATOM	3665	CB	LEU	298	82.269	2.056	8.517	1.00 60.31	C
ATOM	3666	CG	LEU	298	81.581	0.923	9.313	1.00 60.31	C
ATOM	3667	CD1	LEU	298	80.612	1.456	10.381	1.00 60.31	C
ATOM	3668	CD2	LEU	298	80.848	-0.029	8.357	1.00 60.31	C
ATOM	3669	H	LEU	298	83.406	3.997	7.460	1.00 0.00	H
ATOM	3670	HA	LEU	298	82.605	3.477	10.109	1.00 0.00	H
ATOM	3671	2HB	LEU	298	81.495	2.649	8.026	1.00 0.00	H
ATOM	3672	HB3	LEU	298	82.850	1.609	7.710	1.00 0.00	H
ATOM	3673	HG	LEU	298	82.346	0.332	9.821	1.00 0.00	H
ATOM	3674	1HD1	LEU	298	80.123	0.638	10.910	1.00 0.00	H
ATOM	3675	2HD1	LEU	298	81.131	2.053	11.128	1.00 0.00	H
ATOM	3676	3HD1	LEU	298	79.832	2.075	9.936	1.00 0.00	H
ATOM	3677	1HD2	LEU	298	80.389	-0.858	8.897	1.00 0.00	H
ATOM	3678	2HD2	LEU	298	80.060	0.486	7.805	1.00 0.00	H
ATOM	3679	3HD2	LEU	298	81.533	-0.462	7.627	1.00 0.00	H
ATOM	3680	N	TRP	299	85.409	1.970	9.177	1.00104.06	N
ATOM	3681	CA	TRP	299	86.735	1.457	9.545	1.00104.06	C
ATOM	3682	C	TRP	299	87.519	2.368	10.521	1.00104.06	C
ATOM	3683	O	TRP	299	88.569	1.960	11.019	1.00104.06	O
ATOM	3684	CB	TRP	299	87.492	1.231	8.209	1.00104.06	C
ATOM	3685	CG	TRP	299	88.992	1.170	8.133	1.00104.06	C
ATOM	3686	CD2	TRP	299	89.914	0.100	8.504	1.00104.06	C

ATOM	3687	CD1 TRP	299	89.761	2.137	7.585	1.00104.06	C
ATOM	3688	NE1 TRP	299	91.084	1.753	7.592	1.00104.06	N
ATOM	3689	CE2 TRP	299	91.234	0.475	8.094	1.00104.06	C
ATOM	3690	CE3 TRP	299	89.771	-1.165	9.120	1.00104.06	C
ATOM	3691	CZ2 TRP	299	92.343	-0.372	8.258	1.00104.06	C
ATOM	3692	CZ3 TRP	299	90.880	-2.017	9.305	1.00104.06	C
ATOM	3693	CH2 TRP	299	92.161	-1.625	8.870	1.00104.06	C
ATOM	3694	H TRP	299	85.259	2.120	8.182	1.00 0.00	H
ATOM	3695	HA TRP	299	86.609	0.497	10.049	1.00 0.00	H
ATOM	3696	2HB TRP	299	87.105	0.334	7.726	1.00 0.00	H
ATOM	3697	HB3 TRP	299	87.235	2.050	7.545	1.00 0.00	H
ATOM	3698	HD1 TRP	299	89.376	3.054	7.161	1.00 0.00	H
ATOM	3699	HE1 TRP	299	91.768	2.287	7.048	1.00 0.00	H
ATOM	3700	HE3 TRP	299	88.793	-1.495	9.438	1.00 0.00	H
ATOM	3701	HZ2 TRP	299	93.326	-0.076	7.919	1.00 0.00	H
ATOM	3702	HZ3 TRP	299	90.743	-2.986	9.765	1.00 0.00	H
ATOM	3703	HH2 TRP	299	93.001	-2.295	8.997	1.00 0.00	H
ATOM	3704	N LYS	300	87.049	3.592	10.790	1.00180.19	N
ATOM	3705	CA LYS	300	87.648	4.577	11.691	1.00180.19	C
ATOM	3706	C LYS	300	86.681	5.031	12.803	1.00180.19	C
ATOM	3707	O LYS	300	87.089	5.796	13.675	1.00180.19	O
ATOM	3708	CB LYS	300	88.195	5.764	10.855	1.00180.19	C
ATOM	3709	CG LYS	300	89.731	5.884	10.787	1.00180.19	C
ATOM	3710	CD LYS	300	90.412	4.721	10.042	1.00180.19	C
ATOM	3711	CE LYS	300	91.209	3.773	10.958	1.00180.19	C
ATOM	3712	NZ LYS	300	91.129	2.381	10.493	1.00180.19	N1+
ATOM	3713	H LYS	300	86.185	3.867	10.338	1.00 0.00	H
ATOM	3714	HA LYS	300	88.473	4.124	12.239	1.00 0.00	H
ATOM	3715	2HB LYS	300	87.783	5.746	9.846	1.00 0.00	H
ATOM	3716	HB3 LYS	300	87.821	6.695	11.275	1.00 0.00	H
ATOM	3717	2HG LYS	300	89.967	6.808	10.259	1.00 0.00	H
ATOM	3718	HG3 LYS	300	90.146	6.019	11.787	1.00 0.00	H
ATOM	3719	2HD LYS	300	89.658	4.181	9.469	1.00 0.00	H
ATOM	3720	HD3 LYS	300	91.096	5.126	9.295	1.00 0.00	H
ATOM	3721	2HE LYS	300	92.252	4.090	11.010	1.00 0.00	H
ATOM	3722	HE3 LYS	300	90.824	3.794	11.979	1.00 0.00	H
ATOM	3723	1HZ LYS	300	91.760	1.773	10.991	1.00 0.00	H
ATOM	3724	2HZ LYS	300	90.173	2.058	10.673	1.00 0.00	H
ATOM	3725	3HZ LYS	300	91.275	2.291	9.490	1.00 0.00	H
ATOM	3726	N ALA	301	85.421	4.579	12.792	1.00 80.15	N
ATOM	3727	CA ALA	301	84.387	4.896	13.767	1.00 80.15	C
ATOM	3728	C ALA	301	83.189	3.986	13.495	1.00 80.15	C
ATOM	3729	O ALA	301	82.495	4.166	12.491	1.00 80.15	O
ATOM	3730	CB ALA	301	83.978	6.381	13.694	1.00 80.15	C
ATOM	3731	H ALA	301	85.152	3.934	12.057	1.00 0.00	H
ATOM	3732	HA ALA	301	84.778	4.687	14.765	1.00 0.00	H
ATOM	3733	1HB ALA	301	83.109	6.582	14.320	1.00 0.00	H
ATOM	3734	2HB ALA	301	84.780	7.027	14.048	1.00 0.00	H
ATOM	3735	3HB ALA	301	83.731	6.676	12.673	1.00 0.00	H
ATOM	3736	N HIS	302	82.932	3.028	14.396	1.00173.73	N
ATOM	3737	CA HIS	302	81.904	1.979	14.327	1.00173.73	C
ATOM	3738	C HIS	302	80.476	2.557	14.471	1.00173.73	C
ATOM	3739	O HIS	302	79.735	2.268	15.410	1.00173.73	O
ATOM	3740	ND1 HIS	302	84.042	-0.593	16.308	1.00173.73	N
ATOM	3741	CG HIS	302	83.557	0.266	15.334	1.00173.73	C
ATOM	3742	CB HIS	302	82.194	0.921	15.419	1.00173.73	C

ATOM	3743	NE2	HIS	302	85.635	-0.454	14.774	1.00173.73	N
ATOM	3744	CD2	HIS	302	84.551	0.328	14.380	1.00173.73	C
ATOM	3745	CE1	HIS	302	85.262	-0.988	15.928	1.00173.73	C
ATOM	3746	H	HIS	302	83.588	2.941	15.159	1.00 0.00	H
ATOM	3747	HA	HIS	302	81.972	1.492	13.352	1.00 0.00	H
ATOM	3748	HD1	HIS	302	83.576	-0.907	17.149	1.00 0.00	H
ATOM	3749	2HB	HIS	302	82.096	1.373	16.408	1.00 0.00	H
ATOM	3750	HB3	HIS	302	81.445	0.129	15.370	1.00 0.00	H
ATOM	3751	HD2	HIS	302	84.580	0.872	13.447	1.00 0.00	H
ATOM	3752	HE1	HIS	302	85.882	-1.670	16.495	1.00 0.00	H
ATOM	3753	N	SER	303	80.122	3.425	13.524	1.00 57.40	N
ATOM	3754	CA	SER	303	78.910	4.209	13.331	1.00 57.40	C
ATOM	3755	C	SER	303	77.653	3.350	13.056	1.00 57.40	C
ATOM	3756	O	SER	303	77.014	3.449	12.006	1.00 57.40	O
ATOM	3757	CB	SER	303	79.233	5.259	12.236	1.00 57.40	C
ATOM	3758	OG	SER	303	79.882	4.714	11.091	1.00 57.40	O
ATOM	3759	H	SER	303	80.864	3.611	12.856	1.00 0.00	H
ATOM	3760	HA	SER	303	78.706	4.753	14.256	1.00 0.00	H
ATOM	3761	2HB	SER	303	78.325	5.767	11.917	1.00 0.00	H
ATOM	3762	HB3	SER	303	79.874	6.039	12.650	1.00 0.00	H
ATOM	3763	HG	SER	303	80.807	4.596	11.300	1.00 0.00	H
ATOM	3764	N	HIS	304	77.298	2.535	14.060	1.00128.70	N
ATOM	3765	CA	HIS	304	76.066	1.769	14.283	1.00128.70	C
ATOM	3766	C	HIS	304	74.802	2.556	13.883	1.00128.70	C
ATOM	3767	O	HIS	304	74.735	3.750	14.155	1.00128.70	O
ATOM	3768	ND1	HIS	304	74.720	0.382	17.679	1.00128.70	N
ATOM	3769	CG	HIS	304	74.933	0.507	16.316	1.00128.70	C
ATOM	3770	CB	HIS	304	76.076	1.339	15.771	1.00128.70	C
ATOM	3771	NE2	HIS	304	73.160	-0.859	16.718	1.00128.70	N
ATOM	3772	CD2	HIS	304	73.969	-0.287	15.730	1.00128.70	C
ATOM	3773	CE1	HIS	304	73.681	-0.429	17.866	1.00128.70	C
ATOM	3774	H	HIS	304	77.987	2.489	14.807	1.00 0.00	H
ATOM	3775	HA	HIS	304	76.132	0.877	13.659	1.00 0.00	H
ATOM	3776	HD1	HIS	304	75.290	0.777	18.427	1.00 0.00	H
ATOM	3777	2HB	HIS	304	76.995	0.789	15.981	1.00 0.00	H
ATOM	3778	HB3	HIS	304	76.125	2.242	16.384	1.00 0.00	H
ATOM	3779	HD2	HIS	304	73.799	-0.502	14.685	1.00 0.00	H
ATOM	3780	HE1	HIS	304	73.303	-0.699	18.845	1.00 0.00	H
ATOM	3781	N	ALA	305	73.828	1.880	13.244	1.00 66.34	N
ATOM	3782	CA	ALA	305	72.613	2.370	12.568	1.00 66.34	C
ATOM	3783	C	ALA	305	72.024	3.721	13.011	1.00 66.34	C
ATOM	3784	O	ALA	305	71.815	4.599	12.180	1.00 66.34	O
ATOM	3785	CB	ALA	305	71.562	1.252	12.511	1.00 66.34	C
ATOM	3786	H	ALA	305	74.035	0.910	13.071	1.00 0.00	H
ATOM	3787	HA	ALA	305	72.925	2.533	11.535	1.00 0.00	H
ATOM	3788	1HB	ALA	305	70.669	1.584	11.978	1.00 0.00	H
ATOM	3789	2HB	ALA	305	71.938	0.373	11.987	1.00 0.00	H
ATOM	3790	3HB	ALA	305	71.251	0.944	13.510	1.00 0.00	H
ATOM	3791	N	VAL	306	71.823	3.881	14.320	1.00191.46	N
ATOM	3792	CA	VAL	306	71.513	5.122	15.021	1.00191.46	C
ATOM	3793	C	VAL	306	72.466	5.182	16.228	1.00191.46	C
ATOM	3794	O	VAL	306	73.306	6.073	16.286	1.00191.46	O
ATOM	3795	CB	VAL	306	69.991	5.321	15.291	1.00191.46	C
ATOM	3796	CG1	VAL	306	69.701	6.630	16.050	1.00191.46	C
ATOM	3797	CG2	VAL	306	69.151	5.281	14.001	1.00191.46	C
ATOM	3798	H	VAL	306	72.191	3.147	14.904	1.00 0.00	H

ATOM	3799	HA	VAL	306	71.821	5.948	14.376	1.00	0.00	H
ATOM	3800	HB	VAL	306	69.628	4.510	15.918	1.00	0.00	H
ATOM	3801	1HG1	VAL	306	68.632	6.758	16.223	1.00	0.00	H
ATOM	3802	2HG1	VAL	306	70.186	6.654	17.026	1.00	0.00	H
ATOM	3803	3HG1	VAL	306	70.049	7.497	15.486	1.00	0.00	H
ATOM	3804	1HG2	VAL	306	68.096	5.463	14.205	1.00	0.00	H
ATOM	3805	2HG2	VAL	306	69.484	6.036	13.287	1.00	0.00	H
ATOM	3806	3HG2	VAL	306	69.213	4.312	13.505	1.00	0.00	H
ATOM	3807	N	ARG	307	72.507	4.211	17.153	1.00	412.25	N
ATOM	3808	CA	ARG	307	71.460	3.407	17.793	1.00	412.25	C
ATOM	3809	C	ARG	307	72.007	3.074	19.197	1.00	412.25	C
ATOM	3810	O	ARG	307	72.057	1.912	19.588	1.00	412.25	O
ATOM	3811	CB	ARG	307	70.994	2.184	16.948	1.00	412.25	C
ATOM	3812	CG	ARG	307	69.833	1.357	17.551	1.00	412.25	C
ATOM	3813	CD	ARG	307	69.317	0.249	16.615	1.00	412.25	C
ATOM	3814	NE	ARG	307	70.297	-0.844	16.483	1.00	412.25	N
ATOM	3815	CZ	ARG	307	70.069	-2.132	16.192	1.00	412.25	C
ATOM	3816	NH1	ARG	307	68.835	-2.588	15.962	1.00	412.25	N
ATOM	3817	NH2	ARG	307	71.113	-2.958	16.135	1.00	412.25	N1+
ATOM	3818	H	ARG	307	73.337	4.283	17.724	1.00	0.00	H
ATOM	3819	HA	ARG	307	70.598	4.055	17.959	1.00	0.00	H
ATOM	3820	2HB	ARG	307	70.641	2.508	15.977	1.00	0.00	H
ATOM	3821	HB3	ARG	307	71.851	1.539	16.759	1.00	0.00	H
ATOM	3822	2HG	ARG	307	70.114	0.903	18.501	1.00	0.00	H
ATOM	3823	HG3	ARG	307	69.004	2.027	17.783	1.00	0.00	H
ATOM	3824	2HD	ARG	307	68.395	-0.154	17.037	1.00	0.00	H
ATOM	3825	HD3	ARG	307	69.068	0.646	15.630	1.00	0.00	H
ATOM	3826	HE	ARG	307	71.273	-0.571	16.635	1.00	0.00	H
ATOM	3827	2HH1	ARG	307	68.638	-3.559	15.753	1.00	0.00	H
ATOM	3828	1HH1	ARG	307	68.032	-1.977	16.010	1.00	0.00	H
ATOM	3829	2HH2	ARG	307	71.033	-3.951	15.952	1.00	0.00	H
ATOM	3830	1HH2	ARG	307	72.051	-2.603	16.323	1.00	0.00	H
ATOM	3831	N	MET	308	72.534	4.084	19.901	1.00	264.18	N
ATOM	3832	CA	MET	308	73.275	3.994	21.159	1.00	264.18	C
ATOM	3833	C	MET	308	73.109	5.318	21.920	1.00	264.18	C
ATOM	3834	O	MET	308	72.689	6.313	21.329	1.00	264.18	O
ATOM	3835	CB	MET	308	74.757	3.631	20.880	1.00	264.18	C
ATOM	3836	CG	MET	308	75.071	2.129	20.980	1.00	264.18	C
ATOM	3837	SD	MET	308	76.576	1.633	20.096	1.00	264.18	S
ATOM	3838	CE	MET	308	77.843	2.231	21.248	1.00	264.18	C
ATOM	3839	H	MET	308	72.380	5.038	19.594	1.00	0.00	H
ATOM	3840	HA	MET	308	72.818	3.223	21.785	1.00	0.00	H
ATOM	3841	2HB	MET	308	75.040	4.002	19.894	1.00	0.00	H
ATOM	3842	HB3	MET	308	75.416	4.154	21.575	1.00	0.00	H
ATOM	3843	2HG	MET	308	75.136	1.817	22.023	1.00	0.00	H
ATOM	3844	HG3	MET	308	74.264	1.543	20.549	1.00	0.00	H
ATOM	3845	1HE	MET	308	78.837	1.991	20.871	1.00	0.00	H
ATOM	3846	2HE	MET	308	77.776	3.312	21.373	1.00	0.00	H
ATOM	3847	3HE	MET	308	77.726	1.760	22.225	1.00	0.00	H
ATOM	3848	N	ILE	309	73.457	5.334	23.209	1.00	130.16	N
ATOM	3849	CA	ILE	309	73.428	6.486	24.107	1.00	130.16	C
ATOM	3850	C	ILE	309	74.575	6.322	25.125	1.00	130.16	C
ATOM	3851	O	ILE	309	75.116	5.223	25.262	1.00	130.16	O
ATOM	3852	CB	ILE	309	71.995	6.682	24.689	1.00	130.16	C
ATOM	3853	CG2	ILE	309	71.531	5.483	25.543	1.00	130.16	C
ATOM	3854	CG1	ILE	309	71.836	8.016	25.457	1.00	130.16	C

ATOM	3855	CD1 ILE	309	70.375	8.435	25.679	1.00130.16	C
ATOM	3856	H ILE	309	73.867	4.511	23.632	1.00 0.00	H
ATOM	3857	HA ILE	309	73.677	7.368	23.513	1.00 0.00	H
ATOM	3858	HB ILE	309	71.322	6.742	23.832	1.00 0.00	H
ATOM	3859	1HG2 ILE	309	70.487	5.581	25.840	1.00 0.00	H
ATOM	3860	2HG2 ILE	309	71.610	4.543	24.997	1.00 0.00	H
ATOM	3861	3HG2 ILE	309	72.122	5.384	26.455	1.00 0.00	H
ATOM	3862	2HG1 ILE	309	72.337	7.963	26.424	1.00 0.00	H
ATOM	3863	HG13 ILE	309	72.328	8.814	24.901	1.00 0.00	H
ATOM	3864	1HD1 ILE	309	70.323	9.412	26.161	1.00 0.00	H
ATOM	3865	2HD1 ILE	309	69.832	8.505	24.735	1.00 0.00	H
ATOM	3866	3HD1 ILE	309	69.843	7.732	26.320	1.00 0.00	H
ATOM	3867	N GLN	310	74.950	7.399	25.823	1.00231.87	N
ATOM	3868	CA GLN	310	75.941	7.434	26.893	1.00231.87	C
ATOM	3869	C GLN	310	75.596	8.553	27.887	1.00231.87	C
ATOM	3870	O GLN	310	74.700	9.362	27.642	1.00231.87	O
ATOM	3871	CB GLN	310	77.388	7.505	26.333	1.00231.87	C
ATOM	3872	CG GLN	310	78.200	6.199	26.488	1.00231.87	C
ATOM	3873	CD GLN	310	78.606	5.870	27.930	1.00231.87	C
ATOM	3874	OE1 GLN	310	78.132	6.473	28.890	1.00231.87	O
ATOM	3875	NE2 GLN	310	79.503	4.910	28.106	1.00231.87	N
ATOM	3876	H GLN	310	74.418	8.255	25.730	1.00 0.00	H
ATOM	3877	HA GLN	310	75.820	6.510	27.463	1.00 0.00	H
ATOM	3878	2HB GLN	310	77.362	7.779	25.278	1.00 0.00	H
ATOM	3879	HB3 GLN	310	77.946	8.316	26.807	1.00 0.00	H
ATOM	3880	2HG GLN	310	77.639	5.358	26.077	1.00 0.00	H
ATOM	3881	HG3 GLN	310	79.109	6.284	25.893	1.00 0.00	H
ATOM	3882	2HE2 GLN	310	79.799	4.686	29.043	1.00 0.00	H
ATOM	3883	1HE2 GLN	310	79.890	4.413	27.319	1.00 0.00	H
ATOM	3884	N ARG	311	76.324	8.581	29.006	1.00224.48	N
ATOM	3885	CA ARG	311	76.260	9.584	30.064	1.00224.48	C
ATOM	3886	C ARG	311	76.997	10.879	29.646	1.00224.48	C
ATOM	3887	O ARG	311	77.693	10.901	28.631	1.00224.48	O
ATOM	3888	CB ARG	311	76.957	8.996	31.319	1.00224.48	C
ATOM	3889	CG ARG	311	76.277	7.733	31.891	1.00224.48	C
ATOM	3890	CD ARG	311	76.974	7.204	33.159	1.00224.48	C
ATOM	3891	NE ARG	311	76.226	6.091	33.776	1.00224.48	N
ATOM	3892	CZ ARG	311	76.369	5.618	35.026	1.00224.48	C
ATOM	3893	NH1 ARG	311	77.271	6.143	35.860	1.00224.48	N
ATOM	3894	NH2 ARG	311	75.601	4.608	35.443	1.00224.48	N1+
ATOM	3895	H ARG	311	77.079	7.897	29.055	1.00 0.00	H
ATOM	3896	HA ARG	311	75.216	9.820	30.279	1.00 0.00	H
ATOM	3897	2HB ARG	311	77.999	8.768	31.083	1.00 0.00	H
ATOM	3898	HB3 ARG	311	76.990	9.751	32.106	1.00 0.00	H
ATOM	3899	2HG ARG	311	75.232	7.958	32.108	1.00 0.00	H
ATOM	3900	HG3 ARG	311	76.273	6.948	31.133	1.00 0.00	H
ATOM	3901	2HD ARG	311	77.988	6.873	32.927	1.00 0.00	H
ATOM	3902	HD3 ARG	311	77.058	8.014	33.886	1.00 0.00	H
ATOM	3903	HE ARG	311	75.586	5.632	33.139	1.00 0.00	H
ATOM	3904	2HH1 ARG	311	77.400	5.818	36.810	1.00 0.00	H
ATOM	3905	1HH1 ARG	311	77.880	6.893	35.565	1.00 0.00	H
ATOM	3906	2HH2 ARG	311	75.676	4.219	36.376	1.00 0.00	H
ATOM	3907	1HH2 ARG	311	74.894	4.183	34.856	1.00 0.00	H
ATOM	3908	N GLY	312	76.834	11.932	30.466	1.00 87.35	N
ATOM	3909	CA GLY	312	77.425	13.283	30.479	1.00 87.35	C
ATOM	3910	C GLY	312	78.347	13.716	29.331	1.00 87.35	C

ATOM	3911	O	GLY	312	79.505	14.054	29.555	1.00	87.35	O
ATOM	3912	H	GLY	312	76.218	11.760	31.245	1.00	0.00	H
ATOM	3913	2HA	GLY	312	76.614	14.010	30.545	1.00	0.00	H
ATOM	3914	HA3	GLY	312	77.987	13.385	31.408	1.00	0.00	H
ATOM	3915	N	THR	313	77.824	13.721	28.104	1.00	194.17	N
ATOM	3916	CA	THR	313	78.530	14.125	26.896	1.00	194.17	C
ATOM	3917	C	THR	313	78.254	15.626	26.664	1.00	194.17	C
ATOM	3918	O	THR	313	77.134	16.094	26.883	1.00	194.17	O
ATOM	3919	CB	THR	313	77.938	13.271	25.746	1.00	194.17	C
ATOM	3920	OG1	THR	313	78.258	11.910	25.984	1.00	194.17	O
ATOM	3921	CG2	THR	313	78.497	13.588	24.348	1.00	194.17	C
ATOM	3922	H	THR	313	76.860	13.447	27.999	1.00	0.00	H
ATOM	3923	HA	THR	313	79.604	13.946	26.989	1.00	0.00	H
ATOM	3924	HB	THR	313	76.851	13.374	25.722	1.00	0.00	H
ATOM	3925	HG1	THR	313	78.059	11.682	26.894	1.00	0.00	H
ATOM	3926	1HG2	THR	313	78.096	12.896	23.606	1.00	0.00	H
ATOM	3927	2HG2	THR	313	78.230	14.593	24.026	1.00	0.00	H
ATOM	3928	3HG2	THR	313	79.584	13.499	24.327	1.00	0.00	H
ATOM	3929	N	GLN	314	79.271	16.377	26.210	1.00	226.71	N
ATOM	3930	CA	GLN	314	79.188	17.806	25.892	1.00	226.71	C
ATOM	3931	C	GLN	314	78.177	18.111	24.769	1.00	226.71	C
ATOM	3932	O	GLN	314	77.955	17.287	23.876	1.00	226.71	O
ATOM	3933	CB	GLN	314	80.573	18.338	25.462	1.00	226.71	C
ATOM	3934	CG	GLN	314	81.599	18.444	26.605	1.00	226.71	C
ATOM	3935	CD	GLN	314	82.733	19.396	26.229	1.00	226.71	C
ATOM	3936	OE1	GLN	314	83.828	18.973	25.862	1.00	226.71	O
ATOM	3937	NE2	GLN	314	82.477	20.696	26.305	1.00	226.71	N
ATOM	3938	H	GLN	314	80.168	15.931	26.109	1.00	0.00	H
ATOM	3939	HA	GLN	314	78.860	18.332	26.792	1.00	0.00	H
ATOM	3940	2HB	GLN	314	80.990	17.733	24.658	1.00	0.00	H
ATOM	3941	HB3	GLN	314	80.441	19.332	25.025	1.00	0.00	H
ATOM	3942	2HG	GLN	314	81.124	18.821	27.512	1.00	0.00	H
ATOM	3943	HG3	GLN	314	82.007	17.463	26.853	1.00	0.00	H
ATOM	3944	2HE2	GLN	314	83.179	21.372	26.057	1.00	0.00	H
ATOM	3945	1HE2	GLN	314	81.546	21.015	26.586	1.00	0.00	H
ATOM	3946	N	LYS	315	77.630	19.330	24.803	1.00	238.90	N
ATOM	3947	CA	LYS	315	76.872	19.959	23.729	1.00	238.90	C
ATOM	3948	C	LYS	315	77.828	20.875	22.941	1.00	238.90	C
ATOM	3949	O	LYS	315	78.855	21.311	23.464	1.00	238.90	O
ATOM	3950	CB	LYS	315	75.743	20.805	24.361	1.00	238.90	C
ATOM	3951	CG	LYS	315	74.504	19.962	24.731	1.00	238.90	C
ATOM	3952	CD	LYS	315	73.555	20.684	25.704	1.00	238.90	C
ATOM	3953	CE	LYS	315	73.879	20.381	27.179	1.00	238.90	C
ATOM	3954	NZ	LYS	315	73.276	21.360	28.091	1.00	238.90	N1+
ATOM	3955	H	LYS	315	78.002	19.965	25.496	1.00	0.00	H
ATOM	3956	HA	LYS	315	76.456	19.213	23.049	1.00	0.00	H
ATOM	3957	2HB	LYS	315	76.121	21.328	25.240	1.00	0.00	H
ATOM	3958	HB3	LYS	315	75.424	21.595	23.677	1.00	0.00	H
ATOM	3959	2HG	LYS	315	73.966	19.724	23.813	1.00	0.00	H
ATOM	3960	HG3	LYS	315	74.806	19.002	25.154	1.00	0.00	H
ATOM	3961	2HD	LYS	315	73.594	21.758	25.510	1.00	0.00	H
ATOM	3962	HD3	LYS	315	72.525	20.385	25.503	1.00	0.00	H
ATOM	3963	2HE	LYS	315	73.550	19.376	27.446	1.00	0.00	H
ATOM	3964	HE3	LYS	315	74.958	20.419	27.339	1.00	0.00	H
ATOM	3965	1HZ	LYS	315	73.478	21.169	29.056	1.00	0.00	H
ATOM	3966	2HZ	LYS	315	73.733	22.265	27.873	1.00	0.00	H

ATOM	3967	3HZ	LYS	315	72.275	21.508	27.991	1.00	0.00	H
ATOM	3968	N	SER	316	77.496	21.132	21.674	1.00	154.85	N
ATOM	3969	CA	SER	316	78.349	21.758	20.669	1.00	154.85	C
ATOM	3970	C	SER	316	78.492	23.288	20.864	1.00	154.85	C
ATOM	3971	O	SER	316	77.955	24.073	20.083	1.00	154.85	O
ATOM	3972	CB	SER	316	77.693	21.463	19.299	1.00	154.85	C
ATOM	3973	OG	SER	316	77.476	20.070	19.057	1.00	154.85	O
ATOM	3974	H	SER	316	76.640	20.742	21.316	1.00	0.00	H
ATOM	3975	HA	SER	316	79.345	21.317	20.707	1.00	0.00	H
ATOM	3976	2HB	SER	316	76.730	21.972	19.229	1.00	0.00	H
ATOM	3977	HB3	SER	316	78.323	21.864	18.503	1.00	0.00	H
ATOM	3978	HG	SER	316	76.963	20.015	18.256	1.00	0.00	H
ATOM	3979	N	ILE	317	79.248	23.714	21.886	1.00	101.90	N
ATOM	3980	CA	ILE	317	79.788	25.070	22.054	1.00	101.90	C
ATOM	3981	C	ILE	317	80.689	25.414	20.847	1.00	101.90	C
ATOM	3982	O	ILE	317	81.600	24.644	20.558	1.00	101.90	O
ATOM	3983	CB	ILE	317	80.526	25.165	23.426	1.00	101.90	C
ATOM	3984	CG2	ILE	317	81.525	24.017	23.705	1.00	101.90	C
ATOM	3985	CG1	ILE	317	81.185	26.544	23.647	1.00	101.90	C
ATOM	3986	CD1	ILE	317	81.513	26.864	25.113	1.00	101.90	C
ATOM	3987	H	ILE	317	79.612	22.995	22.500	1.00	0.00	H
ATOM	3988	HA	ILE	317	78.951	25.767	22.072	1.00	0.00	H
ATOM	3989	HB	ILE	317	79.746	25.081	24.176	1.00	0.00	H
ATOM	3990	1HG2	ILE	317	81.935	24.085	24.712	1.00	0.00	H
ATOM	3991	2HG2	ILE	317	81.059	23.035	23.633	1.00	0.00	H
ATOM	3992	3HG2	ILE	317	82.364	24.043	23.010	1.00	0.00	H
ATOM	3993	2HG1	ILE	317	82.089	26.639	23.044	1.00	0.00	H
ATOM	3994	HG13	ILE	317	80.504	27.312	23.288	1.00	0.00	H
ATOM	3995	1HD1	ILE	317	81.890	27.883	25.203	1.00	0.00	H
ATOM	3996	2HD1	ILE	317	80.628	26.796	25.745	1.00	0.00	H
ATOM	3997	3HD1	ILE	317	82.275	26.200	25.519	1.00	0.00	H
ATOM	3998	N	ILE	318	80.422	26.511	20.123	1.00	95.77	N
ATOM	3999	CA	ILE	318	81.045	26.820	18.834	1.00	95.77	C
ATOM	4000	C	ILE	318	81.850	28.123	18.919	1.00	95.77	C
ATOM	4001	O	ILE	318	81.323	29.154	19.327	1.00	95.77	O
ATOM	4002	CB	ILE	318	79.967	26.835	17.704	1.00	95.77	C
ATOM	4003	CG2	ILE	318	78.835	27.861	17.932	1.00	95.77	C
ATOM	4004	CG1	ILE	318	80.616	26.977	16.304	1.00	95.77	C
ATOM	4005	CD1	ILE	318	79.631	26.875	15.132	1.00	95.77	C
ATOM	4006	H	ILE	318	79.724	27.166	20.437	1.00	0.00	H
ATOM	4007	HA	ILE	318	81.761	26.039	18.585	1.00	0.00	H
ATOM	4008	HB	ILE	318	79.476	25.863	17.720	1.00	0.00	H
ATOM	4009	1HG2	ILE	318	78.027	27.737	17.212	1.00	0.00	H
ATOM	4010	2HG2	ILE	318	78.391	27.742	18.918	1.00	0.00	H
ATOM	4011	3HG2	ILE	318	79.190	28.888	17.855	1.00	0.00	H
ATOM	4012	2HG1	ILE	318	81.162	27.917	16.223	1.00	0.00	H
ATOM	4013	HG13	ILE	318	81.372	26.203	16.179	1.00	0.00	H
ATOM	4014	1HD1	ILE	318	80.162	26.835	14.181	1.00	0.00	H
ATOM	4015	2HD1	ILE	318	79.002	25.989	15.201	1.00	0.00	H
ATOM	4016	3HD1	ILE	318	78.975	27.741	15.093	1.00	0.00	H
ATOM	4017	N	ILE	319	83.112	28.067	18.493	1.00	130.67	N
ATOM	4018	CA	ILE	319	84.003	29.194	18.272	1.00	130.67	C
ATOM	4019	C	ILE	319	84.949	28.775	17.139	1.00	130.67	C
ATOM	4020	O	ILE	319	85.703	27.815	17.298	1.00	130.67	O
ATOM	4021	CB	ILE	319	84.661	29.668	19.606	1.00	130.67	C
ATOM	4022	CG2	ILE	319	85.209	28.513	20.473	1.00	130.67	C

ATOM	4023	CG1 ILE	319	85.757	30.742	19.420	1.00130.67	C
ATOM	4024	CD1 ILE	319	85.276	32.022	18.729	1.00130.67	C
ATOM	4025	H ILE	319	83.502	27.178	18.210	1.00 0.00	H
ATOM	4026	HA ILE	319	83.398	30.020	17.893	1.00 0.00	H
ATOM	4027	HB ILE	319	83.867	30.134	20.189	1.00 0.00	H
ATOM	4028	1HG2 ILE	319	85.629	28.889	21.407	1.00 0.00	H
ATOM	4029	2HG2 ILE	319	84.430	27.800	20.743	1.00 0.00	H
ATOM	4030	3HG2 ILE	319	85.996	27.965	19.956	1.00 0.00	H
ATOM	4031	2HG1 ILE	319	86.151	31.018	20.399	1.00 0.00	H
ATOM	4032	HG13 ILE	319	86.603	30.330	18.867	1.00 0.00	H
ATOM	4033	1HD1 ILE	319	86.065	32.773	18.747	1.00 0.00	H
ATOM	4034	2HD1 ILE	319	85.033	31.842	17.681	1.00 0.00	H
ATOM	4035	3HD1 ILE	319	84.401	32.444	19.223	1.00 0.00	H
ATOM	4036	N HIS	320	84.860	29.434	15.981	1.00235.41	N
ATOM	4037	CA HIS	320	85.696	29.174	14.812	1.00235.41	C
ATOM	4038	C HIS	320	87.038	29.945	14.887	1.00235.41	C
ATOM	4039	O HIS	320	87.322	30.673	15.842	1.00235.41	O
ATOM	4040	ND1 HIS	320	86.070	28.066	11.918	1.00235.41	N
ATOM	4041	CG HIS	320	85.450	29.271	12.214	1.00235.41	C
ATOM	4042	CB HIS	320	84.874	29.596	13.573	1.00235.41	C
ATOM	4043	NE2 HIS	320	86.103	29.249	10.041	1.00235.41	N
ATOM	4044	CD2 HIS	320	85.476	29.996	11.043	1.00235.41	C
ATOM	4045	CE1 HIS	320	86.466	28.125	10.645	1.00235.41	C
ATOM	4046	H HIS	320	84.110	30.118	15.867	1.00 0.00	H
ATOM	4047	HA HIS	320	85.907	28.106	14.754	1.00 0.00	H
ATOM	4048	HD1 HIS	320	86.160	27.247	12.530	1.00 0.00	H
ATOM	4049	2HB HIS	320	83.914	29.081	13.613	1.00 0.00	H
ATOM	4050	HB3 HIS	320	84.648	30.663	13.612	1.00 0.00	H
ATOM	4051	HD2 HIS	320	85.076	30.982	10.847	1.00 0.00	H
ATOM	4052	HE1 HIS	320	86.989	27.326	10.142	1.00 0.00	H
ATOM	4053	N THR	321	87.887	29.765	13.871	1.00290.40	N
ATOM	4054	CA THR	321	89.156	30.443	13.652	1.00290.40	C
ATOM	4055	C THR	321	89.213	30.849	12.180	1.00290.40	C
ATOM	4056	O THR	321	88.863	30.054	11.309	1.00290.40	O
ATOM	4057	CB THR	321	90.351	29.566	14.103	1.00290.40	C
ATOM	4058	OG1 THR	321	90.313	28.263	13.528	1.00290.40	O
ATOM	4059	CG2 THR	321	90.473	29.453	15.628	1.00290.40	C
ATOM	4060	H THR	321	87.561	29.217	13.083	1.00 0.00	H
ATOM	4061	HA THR	321	89.168	31.367	14.234	1.00 0.00	H
ATOM	4062	HB THR	321	91.262	30.046	13.738	1.00 0.00	H
ATOM	4063	HG1 THR	321	90.056	28.350	12.615	1.00 0.00	H
ATOM	4064	1HG2 THR	321	91.353	28.883	15.924	1.00 0.00	H
ATOM	4065	2HG2 THR	321	90.547	30.441	16.076	1.00 0.00	H
ATOM	4066	3HG2 THR	321	89.601	28.980	16.074	1.00 0.00	H
ATOM	4067	N SER	322	89.672	32.063	11.893	1.00227.02	N
ATOM	4068	CA SER	322	89.845	32.577	10.544	1.00227.02	C
ATOM	4069	C SER	322	91.249	32.158	10.053	1.00227.02	C
ATOM	4070	O SER	322	92.141	31.928	10.868	1.00227.02	O
ATOM	4071	CB SER	322	89.755	34.116	10.634	1.00227.02	C
ATOM	4072	OG SER	322	88.494	34.528	11.154	1.00227.02	O
ATOM	4073	H SER	322	90.168	32.562	12.626	1.00 0.00	H
ATOM	4074	HA SER	322	89.075	32.188	9.875	1.00 0.00	H
ATOM	4075	2HB SER	322	90.528	34.528	11.277	1.00 0.00	H
ATOM	4076	HB3 SER	322	89.894	34.556	9.646	1.00 0.00	H
ATOM	4077	HG SER	322	88.406	35.460	11.001	1.00 0.00	H
ATOM	4078	N GLU	323	91.433	32.030	8.731	1.00290.40	N

ATOM	4079	CA	GLU	323	92.678	31.647	8.050	1.00290.40	C
ATOM	4080	C	GLU	323	92.781	30.113	7.880	1.00290.40	C
ATOM	4081	O	GLU	323	91.803	29.393	8.101	1.00290.40	O
ATOM	4082	CB	GLU	323	93.909	32.548	8.436	1.00290.40	C
ATOM	4083	CG	GLU	323	95.317	31.951	8.669	1.00290.40	C
ATOM	4084	CD	GLU	323	95.448	31.238	10.006	1.00290.40	C
ATOM	4085	OE1	GLU	323	95.404	29.990	10.062	1.00290.40	O
ATOM	4086	OE2	GLU	323	95.648	31.937	11.021	1.00290.40	O1-
ATOM	4087	H	GLU	323	90.618	32.108	8.146	1.00 0.00	H
ATOM	4088	HA	GLU	323	92.470	31.941	7.021	1.00 0.00	H
ATOM	4089	2HB	GLU	323	94.017	33.301	7.656	1.00 0.00	H
ATOM	4090	HB3	GLU	323	93.684	33.146	9.318	1.00 0.00	H
ATOM	4091	2HG	GLU	323	95.679	31.334	7.852	1.00 0.00	H
ATOM	4092	HG3	GLU	323	96.026	32.780	8.709	1.00 0.00	H
ATOM	4093	N	ASP	324	93.910	29.606	7.389	1.00211.98	N
ATOM	4094	CA	ASP	324	94.249	28.194	7.277	1.00211.98	C
ATOM	4095	C	ASP	324	95.760	28.076	7.501	1.00211.98	C
ATOM	4096	O	ASP	324	96.518	28.829	6.891	1.00211.98	O
ATOM	4097	CB	ASP	324	93.736	27.603	5.948	1.00211.98	C
ATOM	4098	CG	ASP	324	94.210	26.178	5.705	1.00211.98	C
ATOM	4099	OD1	ASP	324	94.771	25.898	4.618	1.00211.98	O
ATOM	4100	OD2	ASP	324	93.978	25.323	6.578	1.00211.98	O1-
ATOM	4101	H	ASP	324	94.715	30.221	7.372	1.00 0.00	H
ATOM	4102	HA	ASP	324	93.760	27.660	8.095	1.00 0.00	H
ATOM	4103	2HB	ASP	324	92.647	27.620	5.925	1.00 0.00	H
ATOM	4104	HB3	ASP	324	94.092	28.233	5.138	1.00 0.00	H
ATOM	4105	N	GLY	325	96.177	27.154	8.366	1.00 58.82	N
ATOM	4106	CA	GLY	325	97.459	27.178	9.065	1.00 58.82	C
ATOM	4107	C	GLY	325	97.193	26.983	10.560	1.00 58.82	C
ATOM	4108	O	GLY	325	97.941	26.293	11.245	1.00 58.82	O
ATOM	4109	H	GLY	325	95.472	26.556	8.775	1.00 0.00	H
ATOM	4110	2HA	GLY	325	98.103	26.381	8.692	1.00 0.00	H
ATOM	4111	HA3	GLY	325	97.988	28.123	8.922	1.00 0.00	H
ATOM	4112	N	LYS	326	96.055	27.487	11.057	1.00246.11	N
ATOM	4113	CA	LYS	326	95.425	27.060	12.304	1.00246.11	C
ATOM	4114	C	LYS	326	95.022	25.568	12.248	1.00246.11	C
ATOM	4115	O	LYS	326	94.627	25.065	11.192	1.00246.11	O
ATOM	4116	CB	LYS	326	94.160	27.931	12.539	1.00246.11	C
ATOM	4117	CG	LYS	326	94.020	28.492	13.967	1.00246.11	C
ATOM	4118	CD	LYS	326	94.268	30.011	14.072	1.00246.11	C
ATOM	4119	CE	LYS	326	95.752	30.418	14.097	1.00246.11	C
ATOM	4120	NZ	LYS	326	96.396	30.271	12.785	1.00246.11	N1+
ATOM	4121	H	LYS	326	95.594	28.206	10.488	1.00 0.00	H
ATOM	4122	HA	LYS	326	96.154	27.204	13.104	1.00 0.00	H
ATOM	4123	2HB	LYS	326	94.093	28.749	11.822	1.00 0.00	H
ATOM	4124	HB3	LYS	326	93.262	27.349	12.320	1.00 0.00	H
ATOM	4125	2HG	LYS	326	92.995	28.308	14.285	1.00 0.00	H
ATOM	4126	HG3	LYS	326	94.634	27.944	14.682	1.00 0.00	H
ATOM	4127	2HD	LYS	326	93.733	30.550	13.286	1.00 0.00	H
ATOM	4128	HD3	LYS	326	93.818	30.354	15.005	1.00 0.00	H
ATOM	4129	2HE	LYS	326	95.849	31.461	14.405	1.00 0.00	H
ATOM	4130	HE3	LYS	326	96.296	29.828	14.834	1.00 0.00	H
ATOM	4131	1HZ	LYS	326	97.412	30.385	12.861	1.00 0.00	H
ATOM	4132	2HZ	LYS	326	96.192	29.403	12.321	1.00 0.00	H
ATOM	4133	3HZ	LYS	326	96.060	30.990	12.109	1.00 0.00	H
ATOM	4134	N	VAL	327	95.033	24.887	13.402	1.00130.17	N

ATOM	4135	CA	VAL	327	94.502	23.549	13.708	1.00130.17	C
ATOM	4136	C	VAL	327	92.953	23.481	13.557	1.00130.17	C
ATOM	4137	O	VAL	327	92.231	23.064	14.463	1.00130.17	O
ATOM	4138	CB	VAL	327	95.034	23.155	15.122	1.00130.17	C
ATOM	4139	CG1	VAL	327	94.606	24.098	16.267	1.00130.17	C
ATOM	4140	CG2	VAL	327	94.805	21.676	15.489	1.00130.17	C
ATOM	4141	H	VAL	327	95.549	25.323	14.158	1.00 0.00	H
ATOM	4142	HA	VAL	327	94.926	22.857	12.978	1.00 0.00	H
ATOM	4143	HB	VAL	327	96.117	23.254	15.069	1.00 0.00	H
ATOM	4144	1HG1	VAL	327	95.087	23.810	17.203	1.00 0.00	H
ATOM	4145	2HG1	VAL	327	94.897	25.130	16.072	1.00 0.00	H
ATOM	4146	3HG1	VAL	327	93.530	24.086	16.436	1.00 0.00	H
ATOM	4147	1HG2	VAL	327	95.375	21.408	16.379	1.00 0.00	H
ATOM	4148	2HG2	VAL	327	93.760	21.448	15.688	1.00 0.00	H
ATOM	4149	3HG2	VAL	327	95.143	21.020	14.687	1.00 0.00	H
ATOM	4150	N	GLN	328	92.466	23.949	12.401	1.00215.45	N
ATOM	4151	CA	GLN	328	91.126	24.399	12.045	1.00215.45	C
ATOM	4152	C	GLN	328	89.921	23.795	12.789	1.00215.45	C
ATOM	4153	O	GLN	328	89.518	22.647	12.548	1.00215.45	O
ATOM	4154	CB	GLN	328	90.961	24.460	10.502	1.00215.45	C
ATOM	4155	CG	GLN	328	91.167	25.869	9.894	1.00215.45	C
ATOM	4156	CD	GLN	328	90.090	26.871	10.327	1.00215.45	C
ATOM	4157	OE1	GLN	328	89.190	26.543	11.093	1.00215.45	O
ATOM	4158	NE2	GLN	328	90.161	28.110	9.871	1.00215.45	N
ATOM	4159	H	GLN	328	93.201	24.273	11.773	1.00 0.00	H
ATOM	4160	HA	GLN	328	91.169	25.431	12.396	1.00 0.00	H
ATOM	4161	2HB	GLN	328	91.648	23.760	10.026	1.00 0.00	H
ATOM	4162	HB3	GLN	328	89.968	24.110	10.218	1.00 0.00	H
ATOM	4163	2HG	GLN	328	92.148	26.257	10.172	1.00 0.00	H
ATOM	4164	HG3	GLN	328	91.160	25.804	8.806	1.00 0.00	H
ATOM	4165	2HE2	GLN	328	89.497	28.804	10.223	1.00 0.00	H
ATOM	4166	1HE2	GLN	328	90.892	28.432	9.230	1.00 0.00	H
ATOM	4167	N	VAL	329	89.297	24.629	13.630	1.00118.16	N
ATOM	4168	CA	VAL	329	87.995	24.413	14.235	1.00118.16	C
ATOM	4169	C	VAL	329	86.899	24.785	13.212	1.00118.16	C
ATOM	4170	O	VAL	329	86.102	25.703	13.395	1.00118.16	O
ATOM	4171	CB	VAL	329	87.857	25.200	15.567	1.00118.16	C
ATOM	4172	CG1	VAL	329	88.495	24.437	16.735	1.00118.16	C
ATOM	4173	CG2	VAL	329	88.423	26.622	15.513	1.00118.16	C
ATOM	4174	H	VAL	329	89.667	25.568	13.720	1.00 0.00	H
ATOM	4175	HA	VAL	329	87.885	23.358	14.463	1.00 0.00	H
ATOM	4176	HB	VAL	329	86.795	25.282	15.814	1.00 0.00	H
ATOM	4177	1HG1	VAL	329	88.348	24.972	17.674	1.00 0.00	H
ATOM	4178	2HG1	VAL	329	88.043	23.452	16.847	1.00 0.00	H
ATOM	4179	3HG1	VAL	329	89.566	24.309	16.584	1.00 0.00	H
ATOM	4180	1HG2	VAL	329	88.115	27.194	16.389	1.00 0.00	H
ATOM	4181	2HG2	VAL	329	89.512	26.622	15.490	1.00 0.00	H
ATOM	4182	3HG2	VAL	329	88.070	27.154	14.632	1.00 0.00	H
ATOM	4183	N	THR	330	86.794	23.978	12.154	1.00115.26	N
ATOM	4184	CA	THR	330	85.596	23.779	11.340	1.00115.26	C
ATOM	4185	C	THR	330	84.737	22.680	12.019	1.00115.26	C
ATOM	4186	O	THR	330	84.191	21.780	11.381	1.00115.26	O
ATOM	4187	CB	THR	330	86.072	23.373	9.922	1.00115.26	C
ATOM	4188	OG1	THR	330	86.959	22.259	9.944	1.00115.26	O
ATOM	4189	CG2	THR	330	86.780	24.527	9.207	1.00115.26	C
ATOM	4190	H	THR	330	87.536	23.306	11.993	1.00 0.00	H

ATOM	4191	HA	THR	330	85.000	24.692	11.281	1.00	0.00		H
ATOM	4192	HB	THR	330	85.203	23.098	9.325	1.00	0.00		H
ATOM	4193	HG1	THR	330	87.222	22.086	9.049	1.00	0.00		H
ATOM	4194	1HG2	THR	330	87.007	24.266	8.178	1.00	0.00		H
ATOM	4195	2HG2	THR	330	86.146	25.412	9.174	1.00	0.00		H
ATOM	4196	3HG2	THR	330	87.709	24.807	9.701	1.00	0.00		H
ATOM	4197	N	ARG	331	84.682	22.724	13.353	1.00	293.45		N
ATOM	4198	CA	ARG	331	84.222	21.726	14.303	1.00	293.45		C
ATOM	4199	C	ARG	331	84.079	22.484	15.638	1.00	293.45		C
ATOM	4200	O	ARG	331	85.123	22.823	16.188	1.00	293.45		O
ATOM	4201	CB	ARG	331	85.223	20.532	14.360	1.00	293.45		C
ATOM	4202	CG	ARG	331	86.729	20.910	14.420	1.00	293.45		C
ATOM	4203	CD	ARG	331	87.708	19.740	14.521	1.00	293.45		C
ATOM	4204	NE	ARG	331	87.458	18.745	13.483	1.00	293.45		N
ATOM	4205	CZ	ARG	331	87.948	18.707	12.243	1.00	293.45		C
ATOM	4206	NH1	ARG	331	88.735	19.681	11.772	1.00	293.45		N
ATOM	4207	NH2	ARG	331	87.608	17.667	11.487	1.00	293.45		N1+
ATOM	4208	H	ARG	331	85.096	23.544	13.784	1.00	0.00		H
ATOM	4209	HA	ARG	331	83.267	21.330	13.964	1.00	0.00		H
ATOM	4210	2HB	ARG	331	84.978	19.897	15.213	1.00	0.00		H
ATOM	4211	HB3	ARG	331	85.055	19.909	13.481	1.00	0.00		H
ATOM	4212	2HG	ARG	331	87.000	21.490	13.540	1.00	0.00		H
ATOM	4213	HG3	ARG	331	86.929	21.539	15.284	1.00	0.00		H
ATOM	4214	2HD	ARG	331	88.740	20.088	14.462	1.00	0.00		H
ATOM	4215	HD3	ARG	331	87.595	19.248	15.486	1.00	0.00		H
ATOM	4216	HE	ARG	331	86.751	18.027	13.793	1.00	0.00		H
ATOM	4217	2HH1	ARG	331	89.085	19.689	10.828	1.00	0.00		H
ATOM	4218	1HH1	ARG	331	88.959	20.505	12.329	1.00	0.00		H
ATOM	4219	2HH2	ARG	331	87.900	17.469	10.530	1.00	0.00		H
ATOM	4220	1HH2	ARG	331	86.958	16.961	11.905	1.00	0.00		H
ATOM	4221	N	PRO	332	82.854	22.807	16.119	1.00	253.01		N
ATOM	4222	CA	PRO	332	82.557	23.498	17.388	1.00	253.01		C
ATOM	4223	C	PRO	332	83.468	23.205	18.598	1.00	253.01		C
ATOM	4224	O	PRO	332	84.460	23.906	18.799	1.00	253.01		O
ATOM	4225	CD	PRO	332	81.602	22.574	15.392	1.00	253.01		C
ATOM	4226	CB	PRO	332	81.060	23.263	17.636	1.00	253.01		C
ATOM	4227	CG	PRO	332	80.475	23.171	16.236	1.00	253.01		C
ATOM	4228	HA	PRO	332	82.705	24.554	17.164	1.00	0.00		H
ATOM	4229	HD3	PRO	332	81.619	23.035	14.402	1.00	0.00		H
ATOM	4230	2HD	PRO	332	81.458	21.508	15.258	1.00	0.00		H
ATOM	4231	2HB	PRO	332	80.895	22.339	18.184	1.00	0.00		H
ATOM	4232	HB3	PRO	332	80.596	24.046	18.228	1.00	0.00		H
ATOM	4233	HG3	PRO	332	80.245	24.169	15.870	1.00	0.00		H
ATOM	4234	2HG	PRO	332	79.548	22.600	16.185	1.00	0.00		H
ATOM	4235	N	ASP	333	83.156	22.189	19.414	1.00	156.43		N
ATOM	4236	CA	ASP	333	84.001	21.763	20.522	1.00	156.43		C
ATOM	4237	C	ASP	333	85.081	20.864	19.900	1.00	156.43		C
ATOM	4238	O	ASP	333	84.823	19.752	19.425	1.00	156.43		O
ATOM	4239	CB	ASP	333	83.197	21.041	21.638	1.00	156.43		C
ATOM	4240	CG	ASP	333	82.232	19.925	21.260	1.00	156.43		C
ATOM	4241	OD1	ASP	333	81.488	20.049	20.261	1.00	156.43		O
ATOM	4242	OD2	ASP	333	82.147	18.938	22.020	1.00	156.43		O1-
ATOM	4243	H	ASP	333	82.317	21.636	19.275	1.00	0.00		H
ATOM	4244	HA	ASP	333	84.466	22.637	20.983	1.00	0.00		H
ATOM	4245	2HB	ASP	333	83.889	20.651	22.385	1.00	0.00		H
ATOM	4246	HB3	ASP	333	82.596	21.784	22.159	1.00	0.00		H

ATOM	4247	N	GLN	334	86.295	21.431	19.834	1.00154.88	N
ATOM	4248	CA	GLN	334	87.502	20.934	19.175	1.00154.88	C
ATOM	4249	C	GLN	334	87.758	19.440	19.430	1.00154.88	C
ATOM	4250	O	GLN	334	87.829	19.015	20.587	1.00154.88	O
ATOM	4251	CB	GLN	334	88.701	21.843	19.552	1.00154.88	C
ATOM	4252	CG	GLN	334	90.105	21.441	19.031	1.00154.88	C
ATOM	4253	CD	GLN	334	90.238	21.457	17.506	1.00154.88	C
ATOM	4254	OE1	GLN	334	89.417	20.879	16.800	1.00154.88	O
ATOM	4255	NE2	GLN	334	91.266	22.118	16.990	1.00154.88	N
ATOM	4256	H	GLN	334	86.302	22.408	20.096	1.00 0.00	H
ATOM	4257	HA	GLN	334	87.297	21.068	18.112	1.00 0.00	H
ATOM	4258	2HB	GLN	334	88.489	22.859	19.218	1.00 0.00	H
ATOM	4259	HB3	GLN	334	88.761	21.904	20.638	1.00 0.00	H
ATOM	4260	2HG	GLN	334	90.841	22.122	19.461	1.00 0.00	H
ATOM	4261	HG3	GLN	334	90.382	20.448	19.388	1.00 0.00	H
ATOM	4262	2HE2	GLN	334	91.378	22.218	15.981	1.00 0.00	H
ATOM	4263	1HE2	GLN	334	91.930	22.588	17.585	1.00 0.00	H
ATOM	4264	N	ALA	335	87.839	18.669	18.341	1.00 47.41	N
ATOM	4265	CA	ALA	335	88.094	17.229	18.237	1.00 47.41	C
ATOM	4266	C	ALA	335	86.888	16.334	18.577	1.00 47.41	C
ATOM	4267	O	ALA	335	86.942	15.133	18.329	1.00 47.41	O
ATOM	4268	CB	ALA	335	89.379	16.808	18.975	1.00 47.41	C
ATOM	4269	H	ALA	335	87.811	19.170	17.464	1.00 0.00	H
ATOM	4270	HA	ALA	335	88.275	17.054	17.175	1.00 0.00	H
ATOM	4271	1HB	ALA	335	89.620	15.764	18.768	1.00 0.00	H
ATOM	4272	2HB	ALA	335	90.233	17.407	18.661	1.00 0.00	H
ATOM	4273	3HB	ALA	335	89.279	16.902	20.057	1.00 0.00	H
ATOM	4274	N	ARG	336	85.815	16.892	19.152	1.00140.83	N
ATOM	4275	CA	ARG	336	84.653	16.141	19.624	1.00140.83	C
ATOM	4276	C	ARG	336	83.478	16.264	18.645	1.00140.83	C
ATOM	4277	O	ARG	336	82.789	15.274	18.402	1.00140.83	O
ATOM	4278	CB	ARG	336	84.206	16.738	20.973	1.00140.83	C
ATOM	4279	CG	ARG	336	85.146	16.425	22.149	1.00140.83	C
ATOM	4280	CD	ARG	336	85.173	17.555	23.191	1.00140.83	C
ATOM	4281	NE	ARG	336	86.235	18.519	22.866	1.00140.83	N
ATOM	4282	CZ	ARG	336	86.748	19.457	23.665	1.00140.83	C
ATOM	4283	NH1	ARG	336	86.241	19.700	24.875	1.00140.83	N
ATOM	4284	NH2	ARG	336	87.796	20.146	23.217	1.00140.83	N1+
ATOM	4285	H	ARG	336	85.807	17.898	19.272	1.00 0.00	H
ATOM	4286	HA	ARG	336	84.881	15.081	19.754	1.00 0.00	H
ATOM	4287	2HB	ARG	336	84.121	17.816	20.862	1.00 0.00	H
ATOM	4288	HB3	ARG	336	83.202	16.399	21.234	1.00 0.00	H
ATOM	4289	2HG	ARG	336	84.835	15.491	22.619	1.00 0.00	H
ATOM	4290	HG3	ARG	336	86.158	16.238	21.787	1.00 0.00	H
ATOM	4291	2HD	ARG	336	84.208	18.055	23.282	1.00 0.00	H
ATOM	4292	HD3	ARG	336	85.398	17.130	24.170	1.00 0.00	H
ATOM	4293	HE	ARG	336	86.614	18.436	21.921	1.00 0.00	H
ATOM	4294	2HH1	ARG	336	86.652	20.338	25.538	1.00 0.00	H
ATOM	4295	1HH1	ARG	336	85.355	19.263	25.179	1.00 0.00	H
ATOM	4296	2HH2	ARG	336	88.277	20.850	23.757	1.00 0.00	H
ATOM	4297	1HH2	ARG	336	88.160	19.914	22.293	1.00 0.00	H
ATOM	4298	N	MET	337	83.208	17.461	18.101	1.00161.10	N
ATOM	4299	CA	MET	337	81.932	17.728	17.432	1.00161.10	C
ATOM	4300	C	MET	337	81.728	16.914	16.147	1.00161.10	C
ATOM	4301	O	MET	337	80.674	16.308	15.965	1.00161.10	O
ATOM	4302	CB	MET	337	81.773	19.222	17.108	1.00161.10	C

ATOM	4303	CG	MET	337	80.290	19.591	16.922	1.00161.10	C
ATOM	4304	SD	MET	337	79.665	19.489	15.230	1.00161.10	S
ATOM	4305	CE	MET	337	77.911	19.764	15.577	1.00161.10	C
ATOM	4306	H	MET	337	83.762	18.253	18.409	1.00 0.00	H
ATOM	4307	HA	MET	337	81.157	17.433	18.142	1.00 0.00	H
ATOM	4308	2HB	MET	337	82.172	19.809	17.932	1.00 0.00	H
ATOM	4309	HB3	MET	337	82.364	19.517	16.240	1.00 0.00	H
ATOM	4310	2HG	MET	337	79.659	18.962	17.545	1.00 0.00	H
ATOM	4311	HG3	MET	337	80.110	20.600	17.272	1.00 0.00	H
ATOM	4312	1HE	MET	337	77.339	19.802	14.654	1.00 0.00	H
ATOM	4313	2HE	MET	337	77.505	18.959	16.188	1.00 0.00	H
ATOM	4314	3HE	MET	337	77.773	20.710	16.097	1.00 0.00	H
ATOM	4315	N	ASP	338	82.732	16.829	15.269	1.00123.86	N
ATOM	4316	CA	ASP	338	82.593	16.142	13.981	1.00123.86	C
ATOM	4317	C	ASP	338	82.735	14.606	14.123	1.00123.86	C
ATOM	4318	O	ASP	338	82.692	13.892	13.118	1.00123.86	O
ATOM	4319	CB	ASP	338	83.571	16.745	12.948	1.00123.86	C
ATOM	4320	CG	ASP	338	85.059	16.573	13.218	1.00123.86	C
ATOM	4321	OD1	ASP	338	85.769	16.033	12.334	1.00123.86	O
ATOM	4322	OD2	ASP	338	85.538	17.148	14.213	1.00123.86	O1-
ATOM	4323	H	ASP	338	83.634	17.244	15.478	1.00 0.00	H
ATOM	4324	HA	ASP	338	81.588	16.323	13.597	1.00 0.00	H
ATOM	4325	2HB	ASP	338	83.325	16.349	11.966	1.00 0.00	H
ATOM	4326	HB3	ASP	338	83.381	17.815	12.866	1.00 0.00	H
ATOM	4327	N	ILE	339	82.774	14.090	15.360	1.00 98.76	N
ATOM	4328	CA	ILE	339	82.568	12.687	15.716	1.00 98.76	C
ATOM	4329	C	ILE	339	81.305	12.512	16.599	1.00 98.76	C
ATOM	4330	O	ILE	339	80.790	11.402	16.703	1.00 98.76	O
ATOM	4331	CB	ILE	339	83.892	12.048	16.229	1.00 98.76	C
ATOM	4332	CG2	ILE	339	84.472	12.760	17.466	1.00 98.76	C
ATOM	4333	CG1	ILE	339	83.776	10.522	16.452	1.00 98.76	C
ATOM	4334	CD1	ILE	339	85.126	9.790	16.497	1.00 98.76	C
ATOM	4335	H	ILE	339	82.864	14.741	16.129	1.00 0.00	H
ATOM	4336	HA	ILE	339	82.312	12.143	14.805	1.00 0.00	H
ATOM	4337	HB	ILE	339	84.618	12.184	15.425	1.00 0.00	H
ATOM	4338	1HG2	ILE	339	85.421	12.324	17.779	1.00 0.00	H
ATOM	4339	2HG2	ILE	339	84.680	13.809	17.259	1.00 0.00	H
ATOM	4340	3HG2	ILE	339	83.792	12.710	18.317	1.00 0.00	H
ATOM	4341	2HG1	ILE	339	83.220	10.316	17.368	1.00 0.00	H
ATOM	4342	HG13	ILE	339	83.193	10.082	15.643	1.00 0.00	H
ATOM	4343	1HD1	ILE	339	84.979	8.713	16.585	1.00 0.00	H
ATOM	4344	2HD1	ILE	339	85.709	9.967	15.593	1.00 0.00	H
ATOM	4345	3HD1	ILE	339	85.729	10.101	17.350	1.00 0.00	H
ATOM	4346	N	ARG	340	80.692	13.598	17.105	1.00162.12	N
ATOM	4347	CA	ARG	340	79.307	13.612	17.603	1.00162.12	C
ATOM	4348	C	ARG	340	78.335	13.499	16.406	1.00162.12	C
ATOM	4349	O	ARG	340	77.284	12.873	16.516	1.00162.12	O
ATOM	4350	CB	ARG	340	79.042	14.923	18.394	1.00162.12	C
ATOM	4351	CG	ARG	340	77.668	15.017	19.097	1.00162.12	C
ATOM	4352	CD	ARG	340	77.419	16.392	19.750	1.00162.12	C
ATOM	4353	NE	ARG	340	78.314	16.601	20.899	1.00162.12	N
ATOM	4354	CZ	ARG	340	79.322	17.478	20.993	1.00162.12	C
ATOM	4355	NH1	ARG	340	79.488	18.461	20.116	1.00162.12	N
ATOM	4356	NH2	ARG	340	80.192	17.353	21.983	1.00162.12	N1+
ATOM	4357	H	ARG	340	81.161	14.490	17.027	1.00 0.00	H
ATOM	4358	HA	ARG	340	79.156	12.755	18.263	1.00 0.00	H

ATOM	4359	2HB	ARG	340	79.830	15.053	19.137	1.00	0.00	H
ATOM	4360	HB3	ARG	340	79.119	15.779	17.728	1.00	0.00	H
ATOM	4361	2HG	ARG	340	76.866	14.835	18.380	1.00	0.00	H
ATOM	4362	HG3	ARG	340	77.584	14.224	19.841	1.00	0.00	H
ATOM	4363	2HD	ARG	340	77.524	17.187	19.011	1.00	0.00	H
ATOM	4364	HD3	ARG	340	76.391	16.444	20.111	1.00	0.00	H
ATOM	4365	HE	ARG	340	78.108	16.043	21.720	1.00	0.00	H
ATOM	4366	2HH1	ARG	340	80.335	19.093	20.195	1.00	0.00	H
ATOM	4367	1HH1	ARG	340	78.701	18.873	19.611	1.00	0.00	H
ATOM	4368	2HH2	ARG	340	81.026	18.015	22.028	1.00	0.00	H
ATOM	4369	1HH2	ARG	340	80.036	16.761	22.779	1.00	0.00	H
ATOM	4370	N	LEU	341	78.722	14.039	15.241	1.00	158.58	N
ATOM	4371	CA	LEU	341	78.013	13.927	13.963	1.00	158.58	C
ATOM	4372	C	LEU	341	78.295	12.588	13.234	1.00	158.58	C
ATOM	4373	O	LEU	341	77.941	12.432	12.062	1.00	158.58	O
ATOM	4374	CB	LEU	341	78.466	15.085	13.041	1.00	158.58	C
ATOM	4375	CG	LEU	341	78.117	16.514	13.511	1.00	158.58	C
ATOM	4376	CD1	LEU	341	78.701	17.529	12.518	1.00	158.58	C
ATOM	4377	CD2	LEU	341	76.606	16.758	13.677	1.00	158.58	C
ATOM	4378	H	LEU	341	79.562	14.604	15.262	1.00	0.00	H
ATOM	4379	HA	LEU	341	76.937	13.975	14.131	1.00	0.00	H
ATOM	4380	2HB	LEU	341	79.544	15.013	12.886	1.00	0.00	H
ATOM	4381	HB3	LEU	341	78.027	14.954	12.054	1.00	0.00	H
ATOM	4382	HG	LEU	341	78.583	16.691	14.480	1.00	0.00	H
ATOM	4383	1HD1	LEU	341	78.421	18.549	12.783	1.00	0.00	H
ATOM	4384	2HD1	LEU	341	79.789	17.482	12.497	1.00	0.00	H
ATOM	4385	3HD1	LEU	341	78.338	17.352	11.507	1.00	0.00	H
ATOM	4386	1HD2	LEU	341	76.412	17.765	14.047	1.00	0.00	H
ATOM	4387	2HD2	LEU	341	76.082	16.674	12.727	1.00	0.00	H
ATOM	4388	3HD2	LEU	341	76.151	16.072	14.391	1.00	0.00	H
ATOM	4389	N	ALA	342	78.899	11.594	13.907	1.00	45.31	N
ATOM	4390	CA	ALA	342	79.255	10.283	13.348	1.00	45.31	C
ATOM	4391	C	ALA	342	78.050	9.409	12.949	1.00	45.31	C
ATOM	4392	O	ALA	342	78.246	8.362	12.335	1.00	45.31	O
ATOM	4393	CB	ALA	342	80.125	9.508	14.348	1.00	45.31	C
ATOM	4394	H	ALA	342	79.117	11.759	14.882	1.00	0.00	H
ATOM	4395	HA	ALA	342	79.838	10.451	12.441	1.00	0.00	H
ATOM	4396	1HB	ALA	342	80.378	8.515	13.973	1.00	0.00	H
ATOM	4397	2HB	ALA	342	81.067	10.023	14.526	1.00	0.00	H
ATOM	4398	3HB	ALA	342	79.621	9.377	15.307	1.00	0.00	H
ATOM	4399	N	LYS	343	76.818	9.837	13.250	1.00	50.40	N
ATOM	4400	CA	LYS	343	75.594	9.273	12.697	1.00	50.40	C
ATOM	4401	C	LYS	343	74.532	10.351	12.443	1.00	50.40	C
ATOM	4402	O	LYS	343	73.368	10.173	12.787	1.00	50.40	O
ATOM	4403	CB	LYS	343	75.146	7.981	13.430	1.00	50.40	C
ATOM	4404	CG	LYS	343	74.368	6.973	12.553	1.00	50.40	C
ATOM	4405	CD	LYS	343	75.194	6.419	11.375	1.00	50.40	C
ATOM	4406	CE	LYS	343	74.550	5.233	10.646	1.00	50.40	C
ATOM	4407	NZ	LYS	343	75.298	4.888	9.424	1.00	50.40	N1+
ATOM	4408	H	LYS	343	76.737	10.691	13.781	1.00	0.00	H
ATOM	4409	HA	LYS	343	75.864	8.992	11.682	1.00	0.00	H
ATOM	4410	2HB	LYS	343	76.014	7.463	13.839	1.00	0.00	H
ATOM	4411	HB3	LYS	343	74.538	8.246	14.297	1.00	0.00	H
ATOM	4412	2HG	LYS	343	74.056	6.145	13.191	1.00	0.00	H
ATOM	4413	HG3	LYS	343	73.446	7.426	12.187	1.00	0.00	H
ATOM	4414	2HD	LYS	343	75.360	7.212	10.651	1.00	0.00	H

ATOM	4415	HD3	LYS	343	76.172	6.118	11.742	1.00	0.00	H
ATOM	4416	2HE	LYS	343	74.511	4.366	11.305	1.00	0.00	H
ATOM	4417	HE3	LYS	343	73.524	5.477	10.365	1.00	0.00	H
ATOM	4418	1HZ	LYS	343	75.322	5.697	8.801	1.00	0.00	H
ATOM	4419	2HZ	LYS	343	76.265	4.616	9.620	1.00	0.00	H
ATOM	4420	3HZ	LYS	343	74.857	4.128	8.934	1.00	0.00	H
ATOM	4421	N	THR	344	74.932	11.457	11.805	1.00	122.32	N
ATOM	4422	CA	THR	344	74.027	12.408	11.158	1.00	122.32	C
ATOM	4423	C	THR	344	74.394	12.439	9.665	1.00	122.32	C
ATOM	4424	O	THR	344	73.660	11.908	8.833	1.00	122.32	O
ATOM	4425	CB	THR	344	74.075	13.783	11.868	1.00	122.32	C
ATOM	4426	OG1	THR	344	75.393	14.303	11.880	1.00	122.32	O
ATOM	4427	CG2	THR	344	73.558	13.746	13.313	1.00	122.32	C
ATOM	4428	H	THR	344	75.922	11.627	11.676	1.00	0.00	H
ATOM	4429	HA	THR	344	72.996	12.051	11.208	1.00	0.00	H
ATOM	4430	HB	THR	344	73.453	14.479	11.301	1.00	0.00	H
ATOM	4431	HG1	THR	344	75.353	15.190	12.216	1.00	0.00	H
ATOM	4432	1HG2	THR	344	73.532	14.744	13.751	1.00	0.00	H
ATOM	4433	2HG2	THR	344	72.541	13.352	13.344	1.00	0.00	H
ATOM	4434	3HG2	THR	344	74.176	13.113	13.950	1.00	0.00	H
ATOM	4435	N	LEU	345	75.599	12.922	9.329	1.00	160.29	N
ATOM	4436	CA	LEU	345	76.115	13.084	7.958	1.00	160.29	C
ATOM	4437	C	LEU	345	76.279	11.748	7.203	1.00	160.29	C
ATOM	4438	O	LEU	345	76.401	11.729	5.983	1.00	160.29	O
ATOM	4439	CB	LEU	345	77.488	13.795	7.990	1.00	160.29	C
ATOM	4440	CG	LEU	345	77.604	15.045	8.887	1.00	160.29	C
ATOM	4441	CD1	LEU	345	79.019	15.631	8.785	1.00	160.29	C
ATOM	4442	CD2	LEU	345	76.548	16.117	8.577	1.00	160.29	C
ATOM	4443	H	LEU	345	76.109	13.371	10.084	1.00	0.00	H
ATOM	4444	HA	LEU	345	75.405	13.693	7.395	1.00	0.00	H
ATOM	4445	2HB	LEU	345	78.250	13.080	8.305	1.00	0.00	H
ATOM	4446	HB3	LEU	345	77.756	14.068	6.969	1.00	0.00	H
ATOM	4447	HG	LEU	345	77.461	14.726	9.918	1.00	0.00	H
ATOM	4448	1HD1	LEU	345	79.214	16.349	9.579	1.00	0.00	H
ATOM	4449	2HD1	LEU	345	79.772	14.854	8.877	1.00	0.00	H
ATOM	4450	3HD1	LEU	345	79.191	16.116	7.822	1.00	0.00	H
ATOM	4451	1HD2	LEU	345	76.636	16.956	9.265	1.00	0.00	H
ATOM	4452	2HD2	LEU	345	76.653	16.499	7.562	1.00	0.00	H
ATOM	4453	3HD2	LEU	345	75.533	15.732	8.682	1.00	0.00	H
ATOM	4454	N	VAL	346	76.252	10.633	7.939	1.00	124.95	N
ATOM	4455	CA	VAL	346	76.318	9.261	7.452	1.00	124.95	C
ATOM	4456	C	VAL	346	75.124	8.433	7.973	1.00	124.95	C
ATOM	4457	O	VAL	346	75.176	7.200	7.977	1.00	124.95	O
ATOM	4458	CB	VAL	346	77.724	8.662	7.717	1.00	124.95	C
ATOM	4459	CG1	VAL	346	78.819	9.355	6.883	1.00	124.95	C
ATOM	4460	CG2	VAL	346	78.110	8.659	9.208	1.00	124.95	C
ATOM	4461	H	VAL	346	76.148	10.767	8.931	1.00	0.00	H
ATOM	4462	HA	VAL	346	76.175	9.266	6.370	1.00	0.00	H
ATOM	4463	HB	VAL	346	77.697	7.625	7.381	1.00	0.00	H
ATOM	4464	1HG1	VAL	346	79.782	8.860	7.004	1.00	0.00	H
ATOM	4465	2HG1	VAL	346	78.574	9.335	5.820	1.00	0.00	H
ATOM	4466	3HG1	VAL	346	78.949	10.399	7.169	1.00	0.00	H
ATOM	4467	1HG2	VAL	346	79.098	8.226	9.362	1.00	0.00	H
ATOM	4468	2HG2	VAL	346	78.136	9.665	9.628	1.00	0.00	H
ATOM	4469	3HG2	VAL	346	77.411	8.069	9.798	1.00	0.00	H
ATOM	4470	N	LEU	347	74.044	9.099	8.416	1.00	133.27	N

ATOM	4471	CA	LEU	347	72.722	8.500	8.608	1.00133.27	C
ATOM	4472	C	LEU	347	71.968	8.624	7.278	1.00133.27	C
ATOM	4473	O	LEU	347	71.513	7.605	6.774	1.00133.27	O
ATOM	4474	CB	LEU	347	71.939	9.235	9.720	1.00133.27	C
ATOM	4475	CG	LEU	347	70.531	8.677	10.043	1.00133.27	C
ATOM	4476	CD1	LEU	347	70.562	7.218	10.528	1.00133.27	C
ATOM	4477	CD2	LEU	347	69.830	9.563	11.084	1.00133.27	C
ATOM	4478	H	LEU	347	74.071	10.116	8.387	1.00 0.00	H
ATOM	4479	HA	LEU	347	72.821	7.446	8.869	1.00 0.00	H
ATOM	4480	2HB	LEU	347	72.533	9.205	10.630	1.00 0.00	H
ATOM	4481	HB3	LEU	347	71.833	10.289	9.467	1.00 0.00	H
ATOM	4482	HG	LEU	347	69.918	8.711	9.141	1.00 0.00	H
ATOM	4483	1HD1	LEU	347	69.559	6.869	10.776	1.00 0.00	H
ATOM	4484	2HD1	LEU	347	70.943	6.540	9.764	1.00 0.00	H
ATOM	4485	3HD1	LEU	347	71.176	7.106	11.421	1.00 0.00	H
ATOM	4486	1HD2	LEU	347	68.833	9.186	11.315	1.00 0.00	H
ATOM	4487	2HD2	LEU	347	70.396	9.609	12.016	1.00 0.00	H
ATOM	4488	3HD2	LEU	347	69.709	10.581	10.716	1.00 0.00	H
ATOM	4489	N	ILE	348	71.917	9.831	6.683	1.00134.37	N
ATOM	4490	CA	ILE	348	71.353	10.160	5.358	1.00134.37	C
ATOM	4491	C	ILE	348	71.724	9.131	4.265	1.00134.37	C
ATOM	4492	O	ILE	348	70.868	8.582	3.570	1.00134.37	O
ATOM	4493	CB	ILE	348	71.681	11.641	4.996	1.00134.37	C
ATOM	4494	CG2	ILE	348	73.168	12.004	5.190	1.00134.37	C
ATOM	4495	CG1	ILE	348	71.202	12.074	3.590	1.00134.37	C
ATOM	4496	CD1	ILE	348	69.690	11.956	3.385	1.00134.37	C
ATOM	4497	H	ILE	348	72.288	10.617	7.198	1.00 0.00	H
ATOM	4498	HA	ILE	348	70.271	10.106	5.470	1.00 0.00	H
ATOM	4499	HB	ILE	348	71.132	12.268	5.701	1.00 0.00	H
ATOM	4500	1HG2	ILE	348	73.354	13.042	4.914	1.00 0.00	H
ATOM	4501	2HG2	ILE	348	73.481	11.903	6.226	1.00 0.00	H
ATOM	4502	3HG2	ILE	348	73.827	11.390	4.578	1.00 0.00	H
ATOM	4503	2HG1	ILE	348	71.474	13.118	3.421	1.00 0.00	H
ATOM	4504	HG13	ILE	348	71.709	11.507	2.808	1.00 0.00	H
ATOM	4505	1HD1	ILE	348	69.402	12.328	2.401	1.00 0.00	H
ATOM	4506	2HD1	ILE	348	69.350	10.924	3.452	1.00 0.00	H
ATOM	4507	3HD1	ILE	348	69.148	12.541	4.128	1.00 0.00	H
ATOM	4508	N	LEU	349	73.020	8.803	4.236	1.00109.89	N
ATOM	4509	CA	LEU	349	73.718	7.804	3.430	1.00109.89	C
ATOM	4510	C	LEU	349	73.093	6.391	3.482	1.00109.89	C
ATOM	4511	O	LEU	349	73.250	5.625	2.538	1.00109.89	O
ATOM	4512	CB	LEU	349	75.197	7.846	3.907	1.00109.89	C
ATOM	4513	CG	LEU	349	76.283	7.095	3.102	1.00109.89	C
ATOM	4514	CD1	LEU	349	76.432	5.618	3.492	1.00109.89	C
ATOM	4515	CD2	LEU	349	76.164	7.294	1.586	1.00109.89	C
ATOM	4516	H	LEU	349	73.593	9.347	4.860	1.00 0.00	H
ATOM	4517	HA	LEU	349	73.659	8.144	2.394	1.00 0.00	H
ATOM	4518	2HB	LEU	349	75.505	8.893	3.916	1.00 0.00	H
ATOM	4519	HB3	LEU	349	75.246	7.522	4.947	1.00 0.00	H
ATOM	4520	HG	LEU	349	77.230	7.555	3.390	1.00 0.00	H
ATOM	4521	1HD1	LEU	349	77.334	5.193	3.056	1.00 0.00	H
ATOM	4522	2HD1	LEU	349	76.513	5.504	4.572	1.00 0.00	H
ATOM	4523	3HD1	LEU	349	75.600	5.005	3.151	1.00 0.00	H
ATOM	4524	1HD2	LEU	349	77.023	6.864	1.073	1.00 0.00	H
ATOM	4525	2HD2	LEU	349	75.274	6.817	1.175	1.00 0.00	H
ATOM	4526	3HD2	LEU	349	76.127	8.352	1.330	1.00 0.00	H

ATOM	4527	N	VAL	350	72.359	6.052	4.552	1.00	95.51	N
ATOM	4528	CA	VAL	350	71.717	4.757	4.772	1.00	95.51	C
ATOM	4529	C	VAL	350	70.193	4.897	4.971	1.00	95.51	C
ATOM	4530	O	VAL	350	69.577	4.005	5.551	1.00	95.51	O
ATOM	4531	CB	VAL	350	72.456	3.946	5.879	1.00	95.51	C
ATOM	4532	CG1	VAL	350	73.901	3.598	5.477	1.00	95.51	C
ATOM	4533	CG2	VAL	350	72.438	4.615	7.267	1.00	95.51	C
ATOM	4534	H	VAL	350	72.168	6.758	5.257	1.00	0.00	H
ATOM	4535	HA	VAL	350	71.788	4.161	3.861	1.00	0.00	H
ATOM	4536	HB	VAL	350	71.926	2.996	5.973	1.00	0.00	H
ATOM	4537	1HG1	VAL	350	74.351	2.893	6.175	1.00	0.00	H
ATOM	4538	2HG1	VAL	350	73.931	3.139	4.487	1.00	0.00	H
ATOM	4539	3HG1	VAL	350	74.530	4.487	5.443	1.00	0.00	H
ATOM	4540	1HG2	VAL	350	72.817	3.936	8.029	1.00	0.00	H
ATOM	4541	2HG2	VAL	350	73.045	5.519	7.276	1.00	0.00	H
ATOM	4542	3HG2	VAL	350	71.424	4.891	7.559	1.00	0.00	H
ATOM	4543	N	VAL	351	69.586	5.987	4.477	1.00	91.88	N
ATOM	4544	CA	VAL	351	68.132	6.175	4.396	1.00	91.88	C
ATOM	4545	C	VAL	351	67.688	6.674	3.009	1.00	91.88	C
ATOM	4546	O	VAL	351	66.647	6.238	2.523	1.00	91.88	O
ATOM	4547	CB	VAL	351	67.544	6.969	5.594	1.00	91.88	C
ATOM	4548	CG1	VAL	351	67.590	6.178	6.913	1.00	91.88	C
ATOM	4549	CG2	VAL	351	68.182	8.350	5.790	1.00	91.88	C
ATOM	4550	H	VAL	351	70.170	6.700	4.059	1.00	0.00	H
ATOM	4551	HA	VAL	351	67.669	5.190	4.453	1.00	0.00	H
ATOM	4552	HB	VAL	351	66.489	7.136	5.367	1.00	0.00	H
ATOM	4553	1HG1	VAL	351	67.059	6.705	7.706	1.00	0.00	H
ATOM	4554	2HG1	VAL	351	67.123	5.199	6.801	1.00	0.00	H
ATOM	4555	3HG1	VAL	351	68.615	6.018	7.249	1.00	0.00	H
ATOM	4556	1HG2	VAL	351	67.614	8.948	6.502	1.00	0.00	H
ATOM	4557	2HG2	VAL	351	69.190	8.251	6.178	1.00	0.00	H
ATOM	4558	3HG2	VAL	351	68.236	8.908	4.856	1.00	0.00	H
ATOM	4559	N	LEU	352	68.490	7.510	2.328	1.00	94.82	N
ATOM	4560	CA	LEU	352	68.216	7.993	0.965	1.00	94.82	C
ATOM	4561	C	LEU	352	68.164	6.827	-0.041	1.00	94.82	C
ATOM	4562	O	LEU	352	67.244	6.710	-0.845	1.00	94.82	O
ATOM	4563	CB	LEU	352	69.310	9.018	0.580	1.00	94.82	C
ATOM	4564	CG	LEU	352	69.210	9.622	-0.840	1.00	94.82	C
ATOM	4565	CD1	LEU	352	67.897	10.387	-1.054	1.00	94.82	C
ATOM	4566	CD2	LEU	352	70.407	10.541	-1.116	1.00	94.82	C
ATOM	4567	H	LEU	352	69.312	7.889	2.787	1.00	0.00	H
ATOM	4568	HA	LEU	352	67.244	8.487	0.972	1.00	0.00	H
ATOM	4569	2HB	LEU	352	69.295	9.835	1.301	1.00	0.00	H
ATOM	4570	HB3	LEU	352	70.290	8.550	0.686	1.00	0.00	H
ATOM	4571	HG	LEU	352	69.252	8.822	-1.582	1.00	0.00	H
ATOM	4572	1HD1	LEU	352	67.869	10.834	-2.049	1.00	0.00	H
ATOM	4573	2HD1	LEU	352	67.027	9.735	-0.979	1.00	0.00	H
ATOM	4574	3HD1	LEU	352	67.785	11.191	-0.325	1.00	0.00	H
ATOM	4575	1HD2	LEU	352	70.363	10.962	-2.122	1.00	0.00	H
ATOM	4576	2HD2	LEU	352	70.428	11.377	-0.416	1.00	0.00	H
ATOM	4577	3HD2	LEU	352	71.353	10.006	-1.029	1.00	0.00	H
ATOM	4578	N	ILE	353	69.119	5.900	0.085	1.00	89.67	N
ATOM	4579	CA	ILE	353	69.240	4.676	-0.706	1.00	89.67	C
ATOM	4580	C	ILE	353	68.107	3.658	-0.415	1.00	89.67	C
ATOM	4581	O	ILE	353	67.980	2.670	-1.133	1.00	89.67	O
ATOM	4582	CB	ILE	353	70.660	4.097	-0.425	1.00	89.67	C

ATOM	4583	CG2	ILE	353	70.861	3.650	1.042	1.00	89.67	C
ATOM	4584	CG1	ILE	353	71.067	2.985	-1.419	1.00	89.67	C
ATOM	4585	CD1	ILE	353	72.581	2.730	-1.480	1.00	89.67	C
ATOM	4586	H	ILE	353	69.823	6.060	0.785	1.00	0.00	H
ATOM	4587	HA	ILE	353	69.166	4.950	-1.761	1.00	0.00	H
ATOM	4588	HB	ILE	353	71.357	4.919	-0.603	1.00	0.00	H
ATOM	4589	1HG2	ILE	353	71.905	3.407	1.241	1.00	0.00	H
ATOM	4590	2HG2	ILE	353	70.580	4.430	1.748	1.00	0.00	H
ATOM	4591	3HG2	ILE	353	70.269	2.764	1.275	1.00	0.00	H
ATOM	4592	2HG1	ILE	353	70.551	2.053	-1.182	1.00	0.00	H
ATOM	4593	HG13	ILE	353	70.733	3.259	-2.421	1.00	0.00	H
ATOM	4594	1HD1	ILE	353	72.811	1.983	-2.240	1.00	0.00	H
ATOM	4595	2HD1	ILE	353	73.127	3.638	-1.739	1.00	0.00	H
ATOM	4596	3HD1	ILE	353	72.969	2.359	-0.532	1.00	0.00	H
ATOM	4597	N	ILE	354	67.285	3.883	0.622	1.00	84.98	N
ATOM	4598	CA	ILE	354	66.178	3.006	0.991	1.00	84.98	C
ATOM	4599	C	ILE	354	64.893	3.504	0.303	1.00	84.98	C
ATOM	4600	O	ILE	354	64.180	2.680	-0.260	1.00	84.98	O
ATOM	4601	CB	ILE	354	66.019	2.961	2.540	1.00	84.98	C
ATOM	4602	CG2	ILE	354	64.896	2.010	3.004	1.00	84.98	C
ATOM	4603	CG1	ILE	354	67.345	2.626	3.273	1.00	84.98	C
ATOM	4604	CD1	ILE	354	67.948	1.253	2.939	1.00	84.98	C
ATOM	4605	H	ILE	354	67.367	4.761	1.114	1.00	0.00	H
ATOM	4606	HA	ILE	354	66.366	1.991	0.635	1.00	0.00	H
ATOM	4607	HB	ILE	354	65.718	3.952	2.876	1.00	0.00	H
ATOM	4608	1HG2	ILE	354	64.846	1.953	4.091	1.00	0.00	H
ATOM	4609	2HG2	ILE	354	63.916	2.343	2.660	1.00	0.00	H
ATOM	4610	3HG2	ILE	354	65.043	0.999	2.623	1.00	0.00	H
ATOM	4611	2HG1	ILE	354	68.093	3.387	3.054	1.00	0.00	H
ATOM	4612	HG13	ILE	354	67.185	2.686	4.350	1.00	0.00	H
ATOM	4613	1HD1	ILE	354	68.871	1.095	3.496	1.00	0.00	H
ATOM	4614	2HD1	ILE	354	67.270	0.439	3.193	1.00	0.00	H
ATOM	4615	3HD1	ILE	354	68.192	1.168	1.879	1.00	0.00	H
ATOM	4616	N	CYS	355	64.602	4.818	0.274	1.00	118.38	N
ATOM	4617	CA	CYS	355	63.447	5.347	-0.472	1.00	118.38	C
ATOM	4618	C	CYS	355	63.702	5.341	-1.994	1.00	118.38	C
ATOM	4619	O	CYS	355	62.775	5.117	-2.767	1.00	118.38	O
ATOM	4620	CB	CYS	355	63.035	6.751	0.030	1.00	118.38	C
ATOM	4621	SG	CYS	355	64.407	7.928	0.233	1.00	118.38	S
ATOM	4622	H	CYS	355	65.221	5.486	0.717	1.00	0.00	H
ATOM	4623	HA	CYS	355	62.590	4.690	-0.306	1.00	0.00	H
ATOM	4624	2HB	CYS	355	62.302	7.189	-0.648	1.00	0.00	H
ATOM	4625	HB3	CYS	355	62.533	6.657	0.992	1.00	0.00	H
ATOM	4626	HG	CYS	355	63.644	8.978	0.555	1.00	0.00	H
ATOM	4627	N	TRP	356	64.965	5.463	-2.428	1.00	117.91	N
ATOM	4628	CA	TRP	356	65.390	5.248	-3.816	1.00	117.91	C
ATOM	4629	C	TRP	356	65.723	3.762	-4.090	1.00	117.91	C
ATOM	4630	O	TRP	356	66.242	3.432	-5.154	1.00	117.91	O
ATOM	4631	CB	TRP	356	66.620	6.136	-4.125	1.00	117.91	C
ATOM	4632	CG	TRP	356	66.290	7.570	-4.419	1.00	117.91	C
ATOM	4633	CD2	TRP	356	66.456	8.305	-5.672	1.00	117.91	C
ATOM	4634	CD1	TRP	356	65.693	8.432	-3.564	1.00	117.91	C
ATOM	4635	NE1	TRP	356	65.441	9.623	-4.212	1.00	117.91	N
ATOM	4636	CE2	TRP	356	65.891	9.606	-5.512	1.00	117.91	C
ATOM	4637	CE3	TRP	356	67.002	8.000	-6.942	1.00	117.91	C
ATOM	4638	CZ2	TRP	356	65.835	10.541	-6.559	1.00	117.91	C

ATOM	4639	CZ3 TRP	356	66.948	8.926	-8.004	1.00117.91	C
ATOM	4640	CH2 TRP	356	66.357	10.190	-7.817	1.00117.91	C
ATOM	4641	H TRP	356	65.683	5.719	-1.757	1.00 0.00	H
ATOM	4642	HA TRP	356	64.589	5.521	-4.506	1.00 0.00	H
ATOM	4643	2HB TRP	356	67.356	6.089	-3.325	1.00 0.00	H
ATOM	4644	HB3 TRP	356	67.140	5.769	-5.011	1.00 0.00	H
ATOM	4645	HD1 TRP	356	65.412	8.188	-2.550	1.00 0.00	H
ATOM	4646	HE1 TRP	356	64.878	10.362	-3.807	1.00 0.00	H
ATOM	4647	HE3 TRP	356	67.450	7.032	-7.108	1.00 0.00	H
ATOM	4648	HZ2 TRP	356	65.390	11.513	-6.404	1.00 0.00	H
ATOM	4649	HZ3 TRP	356	67.365	8.666	-8.966	1.00 0.00	H
ATOM	4650	HH2 TRP	356	66.324	10.896	-8.635	1.00 0.00	H
ATOM	4651	N GLY	357	65.370	2.839	-3.187	1.00 44.40	N
ATOM	4652	CA GLY	357	65.748	1.428	-3.261	1.00 44.40	C
ATOM	4653	C GLY	357	64.764	0.639	-4.135	1.00 44.40	C
ATOM	4654	O GLY	357	65.186	0.129	-5.174	1.00 44.40	O
ATOM	4655	H GLY	357	64.894	3.151	-2.351	1.00 0.00	H
ATOM	4656	2HA GLY	357	66.761	1.322	-3.654	1.00 0.00	H
ATOM	4657	HA3 GLY	357	65.765	1.008	-2.256	1.00 0.00	H
ATOM	4658	N PRO	358	63.453	0.585	-3.803	1.00 78.49	N
ATOM	4659	CA PRO	358	62.386	0.112	-4.705	1.00 78.49	C
ATOM	4660	C PRO	358	62.334	0.802	-6.085	1.00 78.49	C
ATOM	4661	O PRO	358	61.758	0.242	-7.011	1.00 78.49	O
ATOM	4662	CD PRO	358	62.914	0.885	-2.476	1.00 78.49	C
ATOM	4663	CB PRO	358	61.077	0.390	-3.948	1.00 78.49	C
ATOM	4664	CG PRO	358	61.473	0.377	-2.484	1.00 78.49	C
ATOM	4665	HA PRO	358	62.516	-0.961	-4.851	1.00 0.00	H
ATOM	4666	HD3 PRO	358	63.494	0.434	-1.670	1.00 0.00	H
ATOM	4667	2HD PRO	358	62.909	1.967	-2.340	1.00 0.00	H
ATOM	4668	2HB PRO	358	60.683	1.377	-4.195	1.00 0.00	H
ATOM	4669	HB3 PRO	358	60.301	-0.340	-4.182	1.00 0.00	H
ATOM	4670	HG3 PRO	358	61.452	-0.652	-2.120	1.00 0.00	H
ATOM	4671	2HG PRO	358	60.806	0.958	-1.848	1.00 0.00	H
ATOM	4672	N LEU	359	62.908	2.007	-6.233	1.00143.89	N
ATOM	4673	CA LEU	359	63.069	2.692	-7.514	1.00143.89	C
ATOM	4674	C LEU	359	64.201	2.017	-8.308	1.00143.89	C
ATOM	4675	O LEU	359	63.965	1.558	-9.423	1.00143.89	O
ATOM	4676	CB LEU	359	63.408	4.175	-7.247	1.00143.89	C
ATOM	4677	CG LEU	359	63.539	5.044	-8.519	1.00143.89	C
ATOM	4678	CD1 LEU	359	62.198	5.685	-8.903	1.00143.89	C
ATOM	4679	CD2 LEU	359	64.642	6.093	-8.343	1.00143.89	C
ATOM	4680	H LEU	359	63.353	2.423	-5.432	1.00 0.00	H
ATOM	4681	HA LEU	359	62.147	2.631	-8.095	1.00 0.00	H
ATOM	4682	2HB LEU	359	62.659	4.615	-6.586	1.00 0.00	H
ATOM	4683	HB3 LEU	359	64.340	4.223	-6.688	1.00 0.00	H
ATOM	4684	HG LEU	359	63.853	4.430	-9.362	1.00 0.00	H
ATOM	4685	1HD1 LEU	359	62.274	6.244	-9.836	1.00 0.00	H
ATOM	4686	2HD1 LEU	359	61.418	4.935	-9.040	1.00 0.00	H
ATOM	4687	3HD1 LEU	359	61.851	6.376	-8.136	1.00 0.00	H
ATOM	4688	1HD2 LEU	359	64.845	6.606	-9.280	1.00 0.00	H
ATOM	4689	2HD2 LEU	359	64.378	6.842	-7.596	1.00 0.00	H
ATOM	4690	3HD2 LEU	359	65.582	5.629	-8.039	1.00 0.00	H
ATOM	4691	N LEU	360	65.403	1.908	-7.718	1.00137.09	N
ATOM	4692	CA LEU	360	66.599	1.282	-8.297	1.00137.09	C
ATOM	4693	C LEU	360	66.345	-0.168	-8.752	1.00137.09	C
ATOM	4694	O LEU	360	66.845	-0.593	-9.790	1.00137.09	O

ATOM	4695	CB	LEU	360	67.759	1.411	-7.275	1.00137.09	C
ATOM	4696	CG	LEU	360	69.190	1.003	-7.710	1.00137.09	C
ATOM	4697	CD1	LEU	360	69.476	-0.504	-7.591	1.00137.09	C
ATOM	4698	CD2	LEU	360	69.594	1.559	-9.085	1.00137.09	C
ATOM	4699	H	LEU	360	65.520	2.317	-6.800	1.00 0.00	H
ATOM	4700	HA	LEU	360	66.854	1.858	-9.183	1.00 0.00	H
ATOM	4701	2HB	LEU	360	67.816	2.464	-6.996	1.00 0.00	H
ATOM	4702	HB3	LEU	360	67.499	0.887	-6.355	1.00 0.00	H
ATOM	4703	HG	LEU	360	69.854	1.476	-6.986	1.00 0.00	H
ATOM	4704	1HD1	LEU	360	70.541	-0.705	-7.705	1.00 0.00	H
ATOM	4705	2HD1	LEU	360	69.172	-0.893	-6.619	1.00 0.00	H
ATOM	4706	3HD1	LEU	360	68.964	-1.085	-8.357	1.00 0.00	H
ATOM	4707	1HD2	LEU	360	70.652	1.388	-9.284	1.00 0.00	H
ATOM	4708	2HD2	LEU	360	69.033	1.088	-9.894	1.00 0.00	H
ATOM	4709	3HD2	LEU	360	69.419	2.634	-9.146	1.00 0.00	H
ATOM	4710	N	ALA	361	65.505	-0.896	-8.008	1.00 42.21	N
ATOM	4711	CA	ALA	361	65.104	-2.268	-8.300	1.00 42.21	C
ATOM	4712	C	ALA	361	64.087	-2.398	-9.455	1.00 42.21	C
ATOM	4713	O	ALA	361	63.832	-3.522	-9.880	1.00 42.21	O
ATOM	4714	CB	ALA	361	64.453	-2.839	-7.029	1.00 42.21	C
ATOM	4715	H	ALA	361	65.158	-0.466	-7.160	1.00 0.00	H
ATOM	4716	HA	ALA	361	65.987	-2.857	-8.556	1.00 0.00	H
ATOM	4717	1HB	ALA	361	64.167	-3.882	-7.171	1.00 0.00	H
ATOM	4718	2HB	ALA	361	65.139	-2.801	-6.183	1.00 0.00	H
ATOM	4719	3HB	ALA	361	63.552	-2.286	-6.759	1.00 0.00	H
ATOM	4720	N	ILE	362	63.490	-1.297	-9.939	1.00114.50	N
ATOM	4721	CA	ILE	362	62.393	-1.302	-10.915	1.00114.50	C
ATOM	4722	C	ILE	362	62.696	-0.418	-12.142	1.00114.50	C
ATOM	4723	O	ILE	362	62.162	-0.691	-13.215	1.00114.50	O
ATOM	4724	CB	ILE	362	61.036	-0.974	-10.211	1.00114.50	C
ATOM	4725	CG2	ILE	362	59.834	-0.832	-11.172	1.00114.50	C
ATOM	4726	CG1	ILE	362	60.671	-1.947	-9.060	1.00114.50	C
ATOM	4727	CD1	ILE	362	60.323	-3.380	-9.497	1.00114.50	C
ATOM	4728	H	ILE	362	63.760	-0.404	-9.545	1.00 0.00	H
ATOM	4729	HA	ILE	362	62.296	-2.302	-11.340	1.00 0.00	H
ATOM	4730	HB	ILE	362	61.168	0.005	-9.749	1.00 0.00	H
ATOM	4731	1HG2	ILE	362	58.907	-0.670	-10.623	1.00 0.00	H
ATOM	4732	2HG2	ILE	362	59.952	0.011	-11.851	1.00 0.00	H
ATOM	4733	3HG2	ILE	362	59.707	-1.724	-11.787	1.00 0.00	H
ATOM	4734	2HG1	ILE	362	61.481	-1.992	-8.334	1.00 0.00	H
ATOM	4735	HG13	ILE	362	59.825	-1.537	-8.508	1.00 0.00	H
ATOM	4736	1HD1	ILE	362	60.102	-4.001	-8.628	1.00 0.00	H
ATOM	4737	2HD1	ILE	362	59.448	-3.408	-10.146	1.00 0.00	H
ATOM	4738	3HD1	ILE	362	61.149	-3.853	-10.027	1.00 0.00	H
ATOM	4739	N	MET	363	63.545	0.617	-12.027	1.00157.44	N
ATOM	4740	CA	MET	363	63.810	1.648	-13.048	1.00157.44	C
ATOM	4741	C	MET	363	64.323	1.172	-14.424	1.00157.44	C
ATOM	4742	O	MET	363	64.374	1.963	-15.360	1.00157.44	O
ATOM	4743	CB	MET	363	64.727	2.753	-12.475	1.00157.44	C
ATOM	4744	CG	MET	363	66.155	2.315	-12.110	1.00157.44	C
ATOM	4745	SD	MET	363	67.133	3.630	-11.326	1.00157.44	S
ATOM	4746	CE	MET	363	67.560	4.632	-12.773	1.00157.44	C
ATOM	4747	H	MET	363	63.894	0.815	-11.094	1.00 0.00	H
ATOM	4748	HA	MET	363	62.846	2.109	-13.264	1.00 0.00	H
ATOM	4749	2HB	MET	363	64.775	3.572	-13.193	1.00 0.00	H
ATOM	4750	HB3	MET	363	64.261	3.178	-11.588	1.00 0.00	H

ATOM	4751	2HG	MET	363	66.109	1.476	-11.417	1.00	0.00		H
ATOM	4752	HG3	MET	363	66.690	1.953	-12.989	1.00	0.00		H
ATOM	4753	1HE	MET	363	68.166	5.487	-12.475	1.00	0.00		H
ATOM	4754	2HE	MET	363	68.130	4.040	-13.490	1.00	0.00		H
ATOM	4755	3HE	MET	363	66.663	5.003	-13.267	1.00	0.00		H
ATOM	4756	N	VAL	364	64.665	-0.112	-14.575	1.00	49.92		N
ATOM	4757	CA	VAL	364	64.955	-0.746	-15.863	1.00	49.92		C
ATOM	4758	C	VAL	364	63.639	-0.955	-16.654	1.00	49.92		C
ATOM	4759	O	VAL	364	63.638	-0.932	-17.882	1.00	49.92		O
ATOM	4760	CB	VAL	364	65.661	-2.110	-15.599	1.00	49.92		C
ATOM	4761	CG1	VAL	364	66.118	-2.808	-16.896	1.00	49.92		C
ATOM	4762	CG2	VAL	364	66.870	-1.971	-14.649	1.00	49.92		C
ATOM	4763	H	VAL	364	64.569	-0.709	-13.769	1.00	0.00		H
ATOM	4764	HA	VAL	364	65.613	-0.098	-16.448	1.00	0.00		H
ATOM	4765	HB	VAL	364	64.946	-2.777	-15.113	1.00	0.00		H
ATOM	4766	1HG1	VAL	364	66.634	-3.745	-16.683	1.00	0.00		H
ATOM	4767	2HG1	VAL	364	65.280	-3.056	-17.549	1.00	0.00		H
ATOM	4768	3HG1	VAL	364	66.801	-2.177	-17.467	1.00	0.00		H
ATOM	4769	1HG2	VAL	364	67.375	-2.928	-14.514	1.00	0.00		H
ATOM	4770	2HG2	VAL	364	67.602	-1.265	-15.045	1.00	0.00		H
ATOM	4771	3HG2	VAL	364	66.581	-1.628	-13.655	1.00	0.00		H
ATOM	4772	N	TYR	365	62.505	-1.113	-15.957	1.00	95.10		N
ATOM	4773	CA	TYR	365	61.183	-1.363	-16.531	1.00	95.10		C
ATOM	4774	C	TYR	365	60.500	-0.066	-17.017	1.00	95.10		C
ATOM	4775	O	TYR	365	59.397	-0.117	-17.551	1.00	95.10		O
ATOM	4776	CB	TYR	365	60.312	-2.066	-15.463	1.00	95.10		C
ATOM	4777	CG	TYR	365	59.275	-3.008	-16.047	1.00	95.10		C
ATOM	4778	CD1	TYR	365	59.622	-4.340	-16.362	1.00	95.10		C
ATOM	4779	CD2	TYR	365	57.973	-2.545	-16.322	1.00	95.10		C
ATOM	4780	CE1	TYR	365	58.676	-5.195	-16.961	1.00	95.10		C
ATOM	4781	CE2	TYR	365	57.034	-3.397	-16.926	1.00	95.10		C
ATOM	4782	CZ	TYR	365	57.382	-4.721	-17.250	1.00	95.10		C
ATOM	4783	OH	TYR	365	56.480	-5.537	-17.865	1.00	95.10		O
ATOM	4784	H	TYR	365	62.541	-1.014	-14.944	1.00	0.00		H
ATOM	4785	HA	TYR	365	61.288	-2.029	-17.384	1.00	0.00		H
ATOM	4786	2HB	TYR	365	60.939	-2.663	-14.800	1.00	0.00		H
ATOM	4787	HB3	TYR	365	59.824	-1.335	-14.815	1.00	0.00		H
ATOM	4788	HD1	TYR	365	60.619	-4.706	-16.166	1.00	0.00		H
ATOM	4789	HD2	TYR	365	57.705	-1.521	-16.109	1.00	0.00		H
ATOM	4790	HE1	TYR	365	58.947	-6.210	-17.212	1.00	0.00		H
ATOM	4791	HE2	TYR	365	56.053	-3.017	-17.157	1.00	0.00		H
ATOM	4792	HH	TYR	365	55.639	-5.102	-18.025	1.00	0.00		H
ATOM	4793	N	ASP	366	61.158	1.091	-16.864	1.00	182.06		N
ATOM	4794	CA	ASP	366	60.752	2.367	-17.458	1.00	182.06		C
ATOM	4795	C	ASP	366	61.123	2.342	-18.954	1.00	182.06		C
ATOM	4796	O	ASP	366	60.249	2.364	-19.821	1.00	182.06		O
ATOM	4797	CB	ASP	366	61.463	3.508	-16.691	1.00	182.06		C
ATOM	4798	CG	ASP	366	61.416	4.874	-17.366	1.00	182.06		C
ATOM	4799	OD1	ASP	366	60.450	5.635	-17.117	1.00	182.06		O
ATOM	4800	OD2	ASP	366	62.373	5.169	-18.108	1.00	182.06		O1-
ATOM	4801	H	ASP	366	62.075	1.050	-16.448	1.00	0.00		H
ATOM	4802	HA	ASP	366	59.672	2.504	-17.375	1.00	0.00		H
ATOM	4803	2HB	ASP	366	61.050	3.590	-15.691	1.00	0.00		H
ATOM	4804	HB3	ASP	366	62.518	3.272	-16.557	1.00	0.00		H
ATOM	4805	N	VAL	367	62.421	2.183	-19.251	1.00	120.34		N
ATOM	4806	CA	VAL	367	62.949	2.071	-20.608	1.00	120.34		C

ATOM	4807	C	VAL	367	62.533	0.747	-21.285	1.00120.34	C
ATOM	4808	O	VAL	367	62.208	0.739	-22.470	1.00120.34	O
ATOM	4809	CB	VAL	367	64.488	2.268	-20.600	1.00120.34	C
ATOM	4810	CG1	VAL	367	64.847	3.730	-20.285	1.00120.34	C
ATOM	4811	CG2	VAL	367	65.258	1.318	-19.659	1.00120.34	C
ATOM	4812	H	VAL	367	63.084	2.279	-18.498	1.00 0.00	H
ATOM	4813	HA	VAL	367	62.498	2.878	-21.189	1.00 0.00	H
ATOM	4814	HB	VAL	367	64.845	2.076	-21.615	1.00 0.00	H
ATOM	4815	1HG1	VAL	367	65.916	3.902	-20.401	1.00 0.00	H
ATOM	4816	2HG1	VAL	367	64.341	4.416	-20.966	1.00 0.00	H
ATOM	4817	3HG1	VAL	367	64.567	4.010	-19.268	1.00 0.00	H
ATOM	4818	1HG2	VAL	367	66.332	1.488	-19.739	1.00 0.00	H
ATOM	4819	2HG2	VAL	367	64.982	1.465	-18.614	1.00 0.00	H
ATOM	4820	3HG2	VAL	367	65.084	0.272	-19.911	1.00 0.00	H
ATOM	4821	N	PHE	368	62.412	-0.352	-20.525	1.00161.37	N
ATOM	4822	CA	PHE	368	61.827	-1.620	-20.982	1.00161.37	C
ATOM	4823	C	PHE	368	60.286	-1.603	-20.796	1.00161.37	C
ATOM	4824	O	PHE	368	59.649	-2.638	-20.606	1.00161.37	O
ATOM	4825	CB	PHE	368	62.493	-2.786	-20.209	1.00161.37	C
ATOM	4826	CG	PHE	368	62.334	-4.167	-20.827	1.00161.37	C
ATOM	4827	CD1	PHE	368	63.062	-4.509	-21.986	1.00161.37	C
ATOM	4828	CD2	PHE	368	61.458	-5.112	-20.250	1.00161.37	C
ATOM	4829	CE1	PHE	368	62.908	-5.781	-22.569	1.00161.37	C
ATOM	4830	CE2	PHE	368	61.300	-6.382	-20.837	1.00161.37	C
ATOM	4831	CZ	PHE	368	62.025	-6.717	-21.996	1.00161.37	C
ATOM	4832	H	PHE	368	62.704	-0.291	-19.555	1.00 0.00	H
ATOM	4833	HA	PHE	368	62.034	-1.751	-22.045	1.00 0.00	H
ATOM	4834	2HB	PHE	368	63.566	-2.601	-20.135	1.00 0.00	H
ATOM	4835	HB3	PHE	368	62.135	-2.819	-19.185	1.00 0.00	H
ATOM	4836	HD1	PHE	368	63.736	-3.793	-22.436	1.00 0.00	H
ATOM	4837	HD2	PHE	368	60.884	-4.855	-19.371	1.00 0.00	H
ATOM	4838	HE1	PHE	368	63.463	-6.036	-23.460	1.00 0.00	H
ATOM	4839	HE2	PHE	368	60.612	-7.093	-20.404	1.00 0.00	H
ATOM	4840	HZ	PHE	368	61.900	-7.690	-22.450	1.00 0.00	H
ATOM	4841	N	GLY	369	59.675	-0.416	-20.868	1.00 54.11	N
ATOM	4842	CA	GLY	369	58.240	-0.157	-20.834	1.00 54.11	C
ATOM	4843	C	GLY	369	57.758	0.517	-22.125	1.00 54.11	C
ATOM	4844	O	GLY	369	56.597	0.903	-22.220	1.00 54.11	O
ATOM	4845	H	GLY	369	60.260	0.409	-20.913	1.00 0.00	H
ATOM	4846	2HA	GLY	369	57.656	-1.061	-20.657	1.00 0.00	H
ATOM	4847	HA3	GLY	369	58.041	0.515	-20.001	1.00 0.00	H
ATOM	4848	N	LYS	370	58.624	0.661	-23.140	1.00124.19	N
ATOM	4849	CA	LYS	370	58.326	1.291	-24.428	1.00124.19	C
ATOM	4850	C	LYS	370	57.517	0.323	-25.319	1.00124.19	C
ATOM	4851	O	LYS	370	58.054	-0.294	-26.237	1.00124.19	O
ATOM	4852	CB	LYS	370	59.661	1.670	-25.115	1.00124.19	C
ATOM	4853	CG	LYS	370	60.419	2.797	-24.390	1.00124.19	C
ATOM	4854	CD	LYS	370	61.761	3.154	-25.054	1.00124.19	C
ATOM	4855	CE	LYS	370	62.770	3.763	-24.066	1.00124.19	C
ATOM	4856	NZ	LYS	370	63.985	4.224	-24.736	1.00124.19	N1+
ATOM	4857	H	LYS	370	59.565	0.321	-22.998	1.00 0.00	H
ATOM	4858	HA	LYS	370	57.734	2.194	-24.274	1.00 0.00	H
ATOM	4859	2HB	LYS	370	60.299	0.788	-25.196	1.00 0.00	H
ATOM	4860	HB3	LYS	370	59.464	1.992	-26.139	1.00 0.00	H
ATOM	4861	2HG	LYS	370	59.790	3.687	-24.354	1.00 0.00	H
ATOM	4862	HG3	LYS	370	60.587	2.509	-23.353	1.00 0.00	H

ATOM	4863	2HD	LYS	370	62.208	2.254	-25.482	1.00	0.00	H
ATOM	4864	HD3	LYS	370	61.580	3.836	-25.887	1.00	0.00	H
ATOM	4865	2HE	LYS	370	62.339	4.583	-23.494	1.00	0.00	H
ATOM	4866	HE3	LYS	370	63.084	3.005	-23.353	1.00	0.00	H
ATOM	4867	1HZ	LYS	370	64.734	4.353	-24.037	1.00	0.00	H
ATOM	4868	2HZ	LYS	370	64.418	3.487	-25.280	1.00	0.00	H
ATOM	4869	3HZ	LYS	370	63.884	5.113	-25.252	1.00	0.00	H
ATOM	4870	N	MET	371	56.226	0.160	-25.002	1.00	165.77	N
ATOM	4871	CA	MET	371	55.216	-0.667	-25.685	1.00	165.77	C
ATOM	4872	C	MET	371	55.181	-2.120	-25.171	1.00	165.77	C
ATOM	4873	O	MET	371	54.350	-2.923	-25.592	1.00	165.77	O
ATOM	4874	CB	MET	371	55.207	-0.479	-27.225	1.00	165.77	C
ATOM	4875	CG	MET	371	53.907	-0.892	-27.944	1.00	165.77	C
ATOM	4876	SD	MET	371	52.368	-0.099	-27.388	1.00	165.77	S
ATOM	4877	CE	MET	371	52.696	1.643	-27.768	1.00	165.77	C
ATOM	4878	H	MET	371	55.933	0.612	-24.139	1.00	0.00	H
ATOM	4879	HA	MET	371	54.279	-0.247	-25.322	1.00	0.00	H
ATOM	4880	2HB	MET	371	55.407	0.567	-27.459	1.00	0.00	H
ATOM	4881	HB3	MET	371	56.034	-1.040	-27.661	1.00	0.00	H
ATOM	4882	2HG	MET	371	54.016	-0.690	-29.010	1.00	0.00	H
ATOM	4883	HG3	MET	371	53.768	-1.971	-27.868	1.00	0.00	H
ATOM	4884	1HE	MET	371	51.817	2.246	-27.538	1.00	0.00	H
ATOM	4885	2HE	MET	371	53.528	2.020	-27.173	1.00	0.00	H
ATOM	4886	3HE	MET	371	52.933	1.771	-28.824	1.00	0.00	H
ATOM	4887	N	ASN	372	56.039	-2.431	-24.194	1.00	68.90	N
ATOM	4888	CA	ASN	372	55.877	-3.544	-23.262	1.00	68.90	C
ATOM	4889	C	ASN	372	54.937	-3.045	-22.146	1.00	68.90	C
ATOM	4890	O	ASN	372	54.894	-1.850	-21.852	1.00	68.90	O
ATOM	4891	CB	ASN	372	57.263	-3.897	-22.669	1.00	68.90	C
ATOM	4892	CG	ASN	372	57.201	-5.001	-21.608	1.00	68.90	C
ATOM	4893	OD1	ASN	372	56.463	-5.972	-21.755	1.00	68.90	O
ATOM	4894	ND2	ASN	372	57.876	-4.806	-20.485	1.00	68.90	N
ATOM	4895	H	ASN	372	56.618	-1.664	-23.887	1.00	0.00	H
ATOM	4896	HA	ASN	372	55.445	-4.411	-23.766	1.00	0.00	H
ATOM	4897	2HB	ASN	372	57.931	-4.232	-23.462	1.00	0.00	H
ATOM	4898	HB3	ASN	372	57.715	-3.002	-22.242	1.00	0.00	H
ATOM	4899	2HD2	ASN	372	57.717	-5.415	-19.692	1.00	0.00	H
ATOM	4900	1HD2	ASN	372	58.505	-4.003	-20.402	1.00	0.00	H
ATOM	4901	N	LYS	373	54.178	-3.956	-21.530	1.00	107.19	N
ATOM	4902	CA	LYS	373	53.180	-3.638	-20.519	1.00	107.19	C
ATOM	4903	C	LYS	373	53.843	-3.266	-19.182	1.00	107.19	C
ATOM	4904	O	LYS	373	54.154	-4.134	-18.362	1.00	107.19	O
ATOM	4905	CB	LYS	373	52.262	-4.859	-20.296	1.00	107.19	C
ATOM	4906	CG	LYS	373	51.249	-5.098	-21.425	1.00	107.19	C
ATOM	4907	CD	LYS	373	50.264	-6.217	-21.054	1.00	107.19	C
ATOM	4908	CE	LYS	373	49.236	-6.545	-22.144	1.00	107.19	C
ATOM	4909	NZ	LYS	373	48.230	-5.491	-22.321	1.00	107.19	N1+
ATOM	4910	H	LYS	373	54.381	-4.930	-21.715	1.00	0.00	H
ATOM	4911	HA	LYS	373	52.572	-2.793	-20.854	1.00	0.00	H
ATOM	4912	2HB	LYS	373	52.860	-5.756	-20.126	1.00	0.00	H
ATOM	4913	HB3	LYS	373	51.695	-4.703	-19.375	1.00	0.00	H
ATOM	4914	2HG	LYS	373	50.703	-4.174	-21.613	1.00	0.00	H
ATOM	4915	HG3	LYS	373	51.774	-5.343	-22.350	1.00	0.00	H
ATOM	4916	2HD	LYS	373	50.834	-7.123	-20.840	1.00	0.00	H
ATOM	4917	HD3	LYS	373	49.746	-5.967	-20.126	1.00	0.00	H
ATOM	4918	2HE	LYS	373	49.717	-6.747	-23.102	1.00	0.00	H

ATOM	4919	HE3	LYS	373	48.701	-7.455	-21.870	1.00	0.00	H
ATOM	4920	1HZ	LYS	373	47.473	-5.921	-22.884	1.00	0.00	H
ATOM	4921	2HZ	LYS	373	47.820	-5.170	-21.447	1.00	0.00	H
ATOM	4922	3HZ	LYS	373	48.579	-4.674	-22.802	1.00	0.00	H
ATOM	4923	N	LEU	374	53.978	-1.961	-18.944	1.00	144.88	N
ATOM	4924	CA	LEU	374	53.761	-1.367	-17.631	1.00	144.88	C
ATOM	4925	C	LEU	374	52.287	-0.920	-17.572	1.00	144.88	C
ATOM	4926	O	LEU	374	51.565	-0.965	-18.569	1.00	144.88	O
ATOM	4927	CB	LEU	374	54.739	-0.184	-17.381	1.00	144.88	C
ATOM	4928	CG	LEU	374	54.953	0.881	-18.488	1.00	144.88	C
ATOM	4929	CD1	LEU	374	53.748	1.813	-18.692	1.00	144.88	C
ATOM	4930	CD2	LEU	374	56.191	1.731	-18.156	1.00	144.88	C
ATOM	4931	H	LEU	374	53.764	-1.359	-19.730	1.00	0.00	H
ATOM	4932	HA	LEU	374	53.903	-2.109	-16.843	1.00	0.00	H
ATOM	4933	2HB	LEU	374	54.484	0.318	-16.447	1.00	0.00	H
ATOM	4934	HB3	LEU	374	55.711	-0.637	-17.186	1.00	0.00	H
ATOM	4935	HG	LEU	374	55.165	0.374	-19.431	1.00	0.00	H
ATOM	4936	1HD1	LEU	374	53.979	2.590	-19.423	1.00	0.00	H
ATOM	4937	2HD1	LEU	374	52.880	1.281	-19.075	1.00	0.00	H
ATOM	4938	3HD1	LEU	374	53.464	2.304	-17.762	1.00	0.00	H
ATOM	4939	1HD2	LEU	374	56.429	2.418	-18.970	1.00	0.00	H
ATOM	4940	2HD2	LEU	374	56.041	2.324	-17.253	1.00	0.00	H
ATOM	4941	3HD2	LEU	374	57.072	1.111	-17.993	1.00	0.00	H
ATOM	4942	N	ILE	375	51.835	-0.512	-16.390	1.00	98.92	N
ATOM	4943	CA	ILE	375	50.500	-0.010	-16.096	1.00	98.92	C
ATOM	4944	C	ILE	375	50.655	0.904	-14.869	1.00	98.92	C
ATOM	4945	O	ILE	375	51.596	0.701	-14.100	1.00	98.92	O
ATOM	4946	CB	ILE	375	49.494	-1.192	-15.948	1.00	98.92	C
ATOM	4947	CG2	ILE	375	49.874	-2.163	-14.807	1.00	98.92	C
ATOM	4948	CG1	ILE	375	48.032	-0.708	-15.828	1.00	98.92	C
ATOM	4949	CD1	ILE	375	46.995	-1.839	-15.811	1.00	98.92	C
ATOM	4950	H	ILE	375	52.480	-0.444	-15.615	1.00	0.00	H
ATOM	4951	HA	ILE	375	50.188	0.612	-16.939	1.00	0.00	H
ATOM	4952	HB	ILE	375	49.545	-1.765	-16.875	1.00	0.00	H
ATOM	4953	1HG2	ILE	375	49.243	-3.051	-14.811	1.00	0.00	H
ATOM	4954	2HG2	ILE	375	50.897	-2.520	-14.914	1.00	0.00	H
ATOM	4955	3HG2	ILE	375	49.780	-1.695	-13.827	1.00	0.00	H
ATOM	4956	2HG1	ILE	375	47.899	-0.114	-14.927	1.00	0.00	H
ATOM	4957	HG13	ILE	375	47.805	-0.050	-16.669	1.00	0.00	H
ATOM	4958	1HD1	ILE	375	45.985	-1.437	-15.892	1.00	0.00	H
ATOM	4959	2HD1	ILE	375	47.142	-2.528	-16.641	1.00	0.00	H
ATOM	4960	3HD1	ILE	375	47.034	-2.415	-14.887	1.00	0.00	H
ATOM	4961	N	LYS	376	49.747	1.875	-14.700	1.00	147.31	N
ATOM	4962	CA	LYS	376	49.524	2.925	-13.682	1.00	147.31	C
ATOM	4963	C	LYS	376	49.936	2.740	-12.194	1.00	147.31	C
ATOM	4964	O	LYS	376	49.420	3.430	-11.320	1.00	147.31	O
ATOM	4965	CB	LYS	376	48.087	3.463	-13.865	1.00	147.31	C
ATOM	4966	CG	LYS	376	46.971	2.446	-13.523	1.00	147.31	C
ATOM	4967	CD	LYS	376	45.923	2.328	-14.641	1.00	147.31	C
ATOM	4968	CE	LYS	376	44.627	1.602	-14.234	1.00	147.31	C
ATOM	4969	NZ	LYS	376	43.667	1.573	-15.346	1.00	147.31	N1+
ATOM	4970	H	LYS	376	49.112	1.959	-15.488	1.00	0.00	H
ATOM	4971	HA	LYS	376	50.179	3.735	-14.005	1.00	0.00	H
ATOM	4972	2HB	LYS	376	47.944	4.356	-13.253	1.00	0.00	H
ATOM	4973	HB3	LYS	376	47.976	3.820	-14.889	1.00	0.00	H
ATOM	4974	2HG	LYS	376	47.386	1.462	-13.305	1.00	0.00	H

ATOM	4975	HG3 LYS	376	46.491	2.763	-12.595	1.00	0.00	H
ATOM	4976	2HD LYS	376	45.665	3.333	-14.971	1.00	0.00	H
ATOM	4977	HD3 LYS	376	46.372	1.829	-15.501	1.00	0.00	H
ATOM	4978	2HE LYS	376	44.830	0.578	-13.917	1.00	0.00	H
ATOM	4979	HE3 LYS	376	44.160	2.114	-13.392	1.00	0.00	H
ATOM	4980	1HZ LYS	376	43.639	0.646	-15.820	1.00	0.00	H
ATOM	4981	2HZ LYS	376	42.735	1.864	-15.063	1.00	0.00	H
ATOM	4982	3HZ LYS	376	43.966	2.187	-16.103	1.00	0.00	H
ATOM	4983	N THR	377	50.857	1.834	-11.885	1.00	129.09	N
ATOM	4984	CA THR	377	51.411	1.536	-10.570	1.00	129.09	C
ATOM	4985	C THR	377	52.861	1.019	-10.703	1.00	129.09	C
ATOM	4986	O THR	377	53.722	1.356	-9.885	1.00	129.09	O
ATOM	4987	CB THR	377	50.416	0.648	-9.767	1.00	129.09	C
ATOM	4988	OG1 THR	377	50.852	0.433	-8.440	1.00	129.09	O
ATOM	4989	CG2 THR	377	50.169	-0.736	-10.392	1.00	129.09	C
ATOM	4990	H THR	377	51.253	1.346	-12.688	1.00	0.00	H
ATOM	4991	HA THR	377	51.494	2.485	-10.036	1.00	0.00	H
ATOM	4992	HB THR	377	49.458	1.166	-9.700	1.00	0.00	H
ATOM	4993	HG1 THR	377	50.770	1.242	-7.955	1.00	0.00	H
ATOM	4994	1HG2 THR	377	49.430	-1.294	-9.816	1.00	0.00	H
ATOM	4995	2HG2 THR	377	49.787	-0.652	-11.410	1.00	0.00	H
ATOM	4996	3HG2 THR	377	51.079	-1.335	-10.422	1.00	0.00	H
ATOM	4997	N VAL	378	53.156	0.265	-11.776	1.00	243.88	N
ATOM	4998	CA VAL	378	54.456	-0.302	-12.120	1.00	243.88	C
ATOM	4999	C VAL	378	55.404	0.859	-12.464	1.00	243.88	C
ATOM	5000	O VAL	378	55.133	1.642	-13.372	1.00	243.88	O
ATOM	5001	CB VAL	378	54.287	-1.275	-13.322	1.00	243.88	C
ATOM	5002	CG1 VAL	378	55.606	-1.962	-13.723	1.00	243.88	C
ATOM	5003	CG2 VAL	378	53.214	-2.351	-13.057	1.00	243.88	C
ATOM	5004	H VAL	378	52.442	0.147	-12.484	1.00	0.00	H
ATOM	5005	HA VAL	378	54.832	-0.854	-11.256	1.00	0.00	H
ATOM	5006	HB VAL	378	53.957	-0.695	-14.185	1.00	0.00	H
ATOM	5007	1HG1 VAL	378	55.453	-2.647	-14.557	1.00	0.00	H
ATOM	5008	2HG1 VAL	378	56.361	-1.243	-14.043	1.00	0.00	H
ATOM	5009	3HG1 VAL	378	56.025	-2.540	-12.899	1.00	0.00	H
ATOM	5010	1HG2 VAL	378	53.125	-3.034	-13.903	1.00	0.00	H
ATOM	5011	2HG2 VAL	378	53.462	-2.948	-12.179	1.00	0.00	H
ATOM	5012	3HG2 VAL	378	52.227	-1.919	-12.894	1.00	0.00	H
ATOM	5013	N PHE	379	56.446	1.028	-11.646	1.00	320.62	N
ATOM	5014	CA PHE	379	57.425	2.116	-11.637	1.00	320.62	C
ATOM	5015	C PHE	379	56.851	3.403	-11.018	1.00	320.62	C
ATOM	5016	O PHE	379	57.507	4.033	-10.191	1.00	320.62	O
ATOM	5017	CB PHE	379	58.154	2.330	-12.986	1.00	320.62	C
ATOM	5018	CG PHE	379	59.330	3.295	-12.909	1.00	320.62	C
ATOM	5019	CD1 PHE	379	60.361	3.095	-11.964	1.00	320.62	C
ATOM	5020	CD2 PHE	379	59.382	4.417	-13.763	1.00	320.62	C
ATOM	5021	CE1 PHE	379	61.416	4.018	-11.861	1.00	320.62	C
ATOM	5022	CE2 PHE	379	60.453	5.328	-13.672	1.00	320.62	C
ATOM	5023	CZ PHE	379	61.468	5.132	-12.719	1.00	320.62	C
ATOM	5024	H PHE	379	56.517	0.375	-10.882	1.00	0.00	H
ATOM	5025	HA PHE	379	58.174	1.765	-10.933	1.00	0.00	H
ATOM	5026	2HB PHE	379	58.533	1.379	-13.361	1.00	0.00	H
ATOM	5027	HB3 PHE	379	57.454	2.690	-13.741	1.00	0.00	H
ATOM	5028	HD1 PHE	379	60.347	2.248	-11.296	1.00	0.00	H
ATOM	5029	HD2 PHE	379	58.614	4.585	-14.505	1.00	0.00	H
ATOM	5030	HE1 PHE	379	62.186	3.870	-11.121	1.00	0.00	H

ATOM	5031	HE2 PHE	379	60.496	6.173	-14.344	1.00	0.00	H
ATOM	5032	HZ PHE	379	62.280	5.838	-12.646	1.00	0.00	H
ATOM	5033	N ALA	380	55.605	3.758	-11.359	1.00	87.77	N
ATOM	5034	CA ALA	380	54.868	4.926	-10.874	1.00	87.77	C
ATOM	5035	C ALA	380	54.786	5.011	-9.339	1.00	87.77	C
ATOM	5036	O ALA	380	54.937	6.092	-8.776	1.00	87.77	O
ATOM	5037	CB ALA	380	53.466	4.937	-11.501	1.00	87.77	C
ATOM	5038	H ALA	380	55.168	3.182	-12.072	1.00	0.00	H
ATOM	5039	HA ALA	380	55.401	5.812	-11.224	1.00	0.00	H
ATOM	5040	1HB ALA	380	52.903	5.815	-11.180	1.00	0.00	H
ATOM	5041	2HB ALA	380	53.519	4.966	-12.590	1.00	0.00	H
ATOM	5042	3HB ALA	380	52.890	4.057	-11.217	1.00	0.00	H
ATOM	5043	N PHE	381	54.615	3.868	-8.659	1.00	103.42	N
ATOM	5044	CA PHE	381	54.575	3.765	-7.200	1.00	103.42	C
ATOM	5045	C PHE	381	55.922	4.160	-6.559	1.00	103.42	C
ATOM	5046	O PHE	381	55.967	5.027	-5.686	1.00	103.42	O
ATOM	5047	CB PHE	381	54.174	2.323	-6.814	1.00	103.42	C
ATOM	5048	CG PHE	381	54.100	2.029	-5.324	1.00	103.42	C
ATOM	5049	CD1 PHE	381	53.195	2.738	-4.505	1.00	103.42	C
ATOM	5050	CD2 PHE	381	54.940	1.050	-4.751	1.00	103.42	C
ATOM	5051	CE1 PHE	381	53.135	2.473	-3.123	1.00	103.42	C
ATOM	5052	CE2 PHE	381	54.877	0.784	-3.369	1.00	103.42	C
ATOM	5053	CZ PHE	381	53.975	1.496	-2.555	1.00	103.42	C
ATOM	5054	H PHE	381	54.477	3.018	-9.198	1.00	0.00	H
ATOM	5055	HA PHE	381	53.816	4.458	-6.831	1.00	0.00	H
ATOM	5056	2HB PHE	381	53.192	2.098	-7.234	1.00	0.00	H
ATOM	5057	HB3 PHE	381	54.858	1.612	-7.281	1.00	0.00	H
ATOM	5058	HD1 PHE	381	52.548	3.493	-4.927	1.00	0.00	H
ATOM	5059	HD2 PHE	381	55.634	0.496	-5.366	1.00	0.00	H
ATOM	5060	HE1 PHE	381	52.444	3.022	-2.499	1.00	0.00	H
ATOM	5061	HE2 PHE	381	55.518	0.031	-2.934	1.00	0.00	H
ATOM	5062	HZ PHE	381	53.925	1.293	-1.495	1.00	0.00	H
ATOM	5063	N CYS	382	57.041	3.578	-7.012	1.00	85.01	N
ATOM	5064	CA CYS	382	58.363	3.892	-6.466	1.00	85.01	C
ATOM	5065	C CYS	382	58.921	5.227	-7.001	1.00	85.01	C
ATOM	5066	O CYS	382	59.774	5.823	-6.343	1.00	85.01	O
ATOM	5067	CB CYS	382	59.346	2.726	-6.689	1.00	85.01	C
ATOM	5068	SG CYS	382	59.279	1.975	-8.340	1.00	85.01	S
ATOM	5069	H CYS	382	56.997	2.958	-7.808	1.00	0.00	H
ATOM	5070	HA CYS	382	58.272	4.013	-5.386	1.00	0.00	H
ATOM	5071	2HB CYS	382	60.363	3.055	-6.483	1.00	0.00	H
ATOM	5072	HB3 CYS	382	59.130	1.935	-5.970	1.00	0.00	H
ATOM	5073	HG CYS	382	60.237	1.064	-8.098	1.00	0.00	H
ATOM	5074	N SER	383	58.367	5.758	-8.100	1.00	100.92	N
ATOM	5075	CA SER	383	58.598	7.125	-8.574	1.00	100.92	C
ATOM	5076	C SER	383	57.875	8.171	-7.698	1.00	100.92	C
ATOM	5077	O SER	383	58.212	9.348	-7.768	1.00	100.92	O
ATOM	5078	CB SER	383	58.084	7.272	-10.016	1.00	100.92	C
ATOM	5079	OG SER	383	58.815	6.437	-10.895	1.00	100.92	O
ATOM	5080	H SER	383	57.736	5.185	-8.649	1.00	0.00	H
ATOM	5081	HA SER	383	59.665	7.344	-8.556	1.00	0.00	H
ATOM	5082	2HB SER	383	57.020	7.052	-10.087	1.00	0.00	H
ATOM	5083	HB3 SER	383	58.212	8.302	-10.354	1.00	0.00	H
ATOM	5084	HG SER	383	58.612	5.527	-10.698	1.00	0.00	H
ATOM	5085	N MET	384	56.919	7.765	-6.845	1.00	116.54	N
ATOM	5086	CA MET	384	56.367	8.630	-5.804	1.00	116.54	C

ATOM	5087	C	MET	384	57.227	8.510	-4.529	1.00116.54	C
ATOM	5088	O	MET	384	57.376	9.480	-3.790	1.00116.54	O
ATOM	5089	CB	MET	384	54.926	8.191	-5.467	1.00116.54	C
ATOM	5090	CG	MET	384	54.135	9.315	-4.781	1.00116.54	C
ATOM	5091	SD	MET	384	52.490	8.843	-4.188	1.00116.54	S
ATOM	5092	CE	MET	384	51.998	10.450	-3.512	1.00116.54	C
ATOM	5093	H	MET	384	56.600	6.807	-6.886	1.00 0.00	H
ATOM	5094	HA	MET	384	56.355	9.665	-6.147	1.00 0.00	H
ATOM	5095	2HB	MET	384	54.399	7.913	-6.382	1.00 0.00	H
ATOM	5096	HB3	MET	384	54.924	7.300	-4.837	1.00 0.00	H
ATOM	5097	2HG	MET	384	54.690	9.694	-3.922	1.00 0.00	H
ATOM	5098	HG3	MET	384	54.024	10.153	-5.470	1.00 0.00	H
ATOM	5099	1HE	MET	384	51.022	10.372	-3.040	1.00 0.00	H
ATOM	5100	2HE	MET	384	52.713	10.792	-2.765	1.00 0.00	H
ATOM	5101	3HE	MET	384	51.935	11.196	-4.304	1.00 0.00	H
ATOM	5102	N	LEU	385	57.811	7.331	-4.267	1.00 46.95	N
ATOM	5103	CA	LEU	385	58.600	7.054	-3.065	1.00 46.95	C
ATOM	5104	C	LEU	385	59.954	7.787	-3.085	1.00 46.95	C
ATOM	5105	O	LEU	385	60.420	8.232	-2.036	1.00 46.95	O
ATOM	5106	CB	LEU	385	58.828	5.528	-2.952	1.00 46.95	C
ATOM	5107	CG	LEU	385	59.469	5.038	-1.631	1.00 46.95	C
ATOM	5108	CD1	LEU	385	58.564	5.271	-0.410	1.00 46.95	C
ATOM	5109	CD2	LEU	385	59.855	3.557	-1.741	1.00 46.95	C
ATOM	5110	H	LEU	385	57.623	6.577	-4.910	1.00 0.00	H
ATOM	5111	HA	LEU	385	58.028	7.408	-2.206	1.00 0.00	H
ATOM	5112	2HB	LEU	385	57.878	5.012	-3.093	1.00 0.00	H
ATOM	5113	HB3	LEU	385	59.467	5.214	-3.777	1.00 0.00	H
ATOM	5114	HG	LEU	385	60.396	5.586	-1.464	1.00 0.00	H
ATOM	5115	1HD1	LEU	385	59.016	4.871	0.497	1.00 0.00	H
ATOM	5116	2HD1	LEU	385	58.389	6.332	-0.235	1.00 0.00	H
ATOM	5117	3HD1	LEU	385	57.593	4.789	-0.537	1.00 0.00	H
ATOM	5118	1HD2	LEU	385	60.347	3.209	-0.833	1.00 0.00	H
ATOM	5119	2HD2	LEU	385	58.981	2.928	-1.912	1.00 0.00	H
ATOM	5120	3HD2	LEU	385	60.549	3.397	-2.567	1.00 0.00	H
ATOM	5121	N	CYS	386	60.580	7.955	-4.260	1.00118.36	N
ATOM	5122	CA	CYS	386	61.862	8.652	-4.408	1.00118.36	C
ATOM	5123	C	CYS	386	61.771	10.160	-4.075	1.00118.36	C
ATOM	5124	O	CYS	386	62.768	10.774	-3.682	1.00118.36	O
ATOM	5125	CB	CYS	386	62.423	8.410	-5.826	1.00118.36	C
ATOM	5126	SG	CYS	386	61.420	9.161	-7.136	1.00118.36	S
ATOM	5127	H	CYS	386	60.161	7.553	-5.092	1.00 0.00	H
ATOM	5128	HA	CYS	386	62.563	8.208	-3.697	1.00 0.00	H
ATOM	5129	2HB	CYS	386	63.424	8.822	-5.909	1.00 0.00	H
ATOM	5130	HB3	CYS	386	62.516	7.340	-6.015	1.00 0.00	H
ATOM	5131	HG	CYS	386	62.236	8.853	-8.152	1.00 0.00	H
ATOM	5132	N	LEU	387	60.565	10.747	-4.144	1.00 86.28	N
ATOM	5133	CA	LEU	387	60.261	12.147	-3.830	1.00 86.28	C
ATOM	5134	C	LEU	387	60.409	12.444	-2.330	1.00 86.28	C
ATOM	5135	O	LEU	387	60.631	13.590	-1.946	1.00 86.28	O
ATOM	5136	CB	LEU	387	58.809	12.478	-4.231	1.00 86.28	C
ATOM	5137	CG	LEU	387	58.399	12.079	-5.661	1.00 86.28	C
ATOM	5138	CD1	LEU	387	56.910	12.384	-5.873	1.00 86.28	C
ATOM	5139	CD2	LEU	387	59.271	12.741	-6.738	1.00 86.28	C
ATOM	5140	H	LEU	387	59.794	10.180	-4.471	1.00 0.00	H
ATOM	5141	HA	LEU	387	60.949	12.793	-4.379	1.00 0.00	H
ATOM	5142	2HB	LEU	387	58.124	11.999	-3.529	1.00 0.00	H

ATOM	5143	HB3 LEU	387	58.649	13.551	-4.103	1.00	0.00	H
ATOM	5144	HG LEU	387	58.517	11.002	-5.773	1.00	0.00	H
ATOM	5145	1HD1 LEU	387	56.585	12.076	-6.868	1.00	0.00	H
ATOM	5146	2HD1 LEU	387	56.291	11.856	-5.148	1.00	0.00	H
ATOM	5147	3HD1 LEU	387	56.706	13.449	-5.760	1.00	0.00	H
ATOM	5148	1HD2 LEU	387	58.942	12.445	-7.735	1.00	0.00	H
ATOM	5149	2HD2 LEU	387	59.228	13.829	-6.683	1.00	0.00	H
ATOM	5150	3HD2 LEU	387	60.315	12.440	-6.655	1.00	0.00	H
ATOM	5151	N LEU	388	60.377	11.399	-1.489	1.00	157.07	N
ATOM	5152	CA LEU	388	60.603	11.448	-0.046	1.00	157.07	C
ATOM	5153	C LEU	388	62.050	11.864	0.301	1.00	157.07	C
ATOM	5154	O LEU	388	62.348	12.125	1.467	1.00	157.07	O
ATOM	5155	CB LEU	388	60.275	10.047	0.533	1.00	157.07	C
ATOM	5156	CG LEU	388	59.992	9.978	2.052	1.00	157.07	C
ATOM	5157	CD1 LEU	388	58.625	10.582	2.411	1.00	157.07	C
ATOM	5158	CD2 LEU	388	60.081	8.527	2.550	1.00	157.07	C
ATOM	5159	H LEU	388	60.213	10.488	-1.901	1.00	0.00	H
ATOM	5160	HA LEU	388	59.928	12.196	0.369	1.00	0.00	H
ATOM	5161	2HB LEU	388	59.407	9.634	0.017	1.00	0.00	H
ATOM	5162	HB3 LEU	388	61.100	9.375	0.289	1.00	0.00	H
ATOM	5163	HG LEU	388	60.753	10.542	2.588	1.00	0.00	H
ATOM	5164	1HD1 LEU	388	58.441	10.529	3.485	1.00	0.00	H
ATOM	5165	2HD1 LEU	388	58.562	11.632	2.131	1.00	0.00	H
ATOM	5166	3HD1 LEU	388	57.811	10.058	1.909	1.00	0.00	H
ATOM	5167	1HD2 LEU	388	59.885	8.466	3.621	1.00	0.00	H
ATOM	5168	2HD2 LEU	388	59.358	7.888	2.042	1.00	0.00	H
ATOM	5169	3HD2 LEU	388	61.074	8.112	2.377	1.00	0.00	H
ATOM	5170	N ASN	389	62.957	11.946	-0.693	1.00	127.13	N
ATOM	5171	CA ASN	389	64.293	12.526	-0.545	1.00	127.13	C
ATOM	5172	C ASN	389	64.249	13.938	0.064	1.00	127.13	C
ATOM	5173	O ASN	389	64.834	14.124	1.121	1.00	127.13	O
ATOM	5174	CB ASN	389	65.196	12.398	-1.797	1.00	127.13	C
ATOM	5175	CG ASN	389	65.004	13.406	-2.931	1.00	127.13	C
ATOM	5176	OD1 ASN	389	65.797	14.330	-3.057	1.00	127.13	O
ATOM	5177	ND2 ASN	389	64.021	13.224	-3.802	1.00	127.13	N
ATOM	5178	H ASN	389	62.626	11.726	-1.622	1.00	0.00	H
ATOM	5179	HA ASN	389	64.778	11.897	0.204	1.00	0.00	H
ATOM	5180	2HB ASN	389	66.224	12.537	-1.462	1.00	0.00	H
ATOM	5181	HB3 ASN	389	65.153	11.384	-2.187	1.00	0.00	H
ATOM	5182	2HD2 ASN	389	63.897	13.917	-4.526	1.00	0.00	H
ATOM	5183	1HD2 ASN	389	63.425	12.399	-3.768	1.00	0.00	H
ATOM	5184	N SER	390	63.452	14.880	-0.461	1.00	113.04	N
ATOM	5185	CA SER	390	63.315	16.253	0.057	1.00	113.04	C
ATOM	5186	C SER	390	62.437	16.344	1.331	1.00	113.04	C
ATOM	5187	O SER	390	61.655	17.269	1.527	1.00	113.04	O
ATOM	5188	CB SER	390	62.778	17.156	-1.072	1.00	113.04	C
ATOM	5189	OG SER	390	63.758	17.234	-2.096	1.00	113.04	O
ATOM	5190	H SER	390	62.938	14.680	-1.307	1.00	0.00	H
ATOM	5191	HA SER	390	64.297	16.615	0.360	1.00	0.00	H
ATOM	5192	2HB SER	390	61.833	16.785	-1.472	1.00	0.00	H
ATOM	5193	HB3 SER	390	62.598	18.170	-0.707	1.00	0.00	H
ATOM	5194	HG SER	390	64.577	17.548	-1.670	1.00	0.00	H
ATOM	5195	N THR	391	62.605	15.377	2.231	1.00	180.30	N
ATOM	5196	CA THR	391	62.215	15.403	3.631	1.00	180.30	C
ATOM	5197	C THR	391	63.201	14.537	4.440	1.00	180.30	C
ATOM	5198	O THR	391	63.574	14.907	5.550	1.00	180.30	O

ATOM	5199	CB THR	391	60.692	15.165	3.820	1.00180.30	C
ATOM	5200	OG1 THR	391	60.330	15.273	5.181	1.00180.30	O
ATOM	5201	CG2 THR	391	60.194	13.803	3.320	1.00180.30	C
ATOM	5202	H THR	391	63.313	14.700	1.970	1.00 0.00	H
ATOM	5203	HA THR	391	62.405	16.423	3.975	1.00 0.00	H
ATOM	5204	HB THR	391	60.146	15.947	3.289	1.00 0.00	H
ATOM	5205	HG1 THR	391	60.527	16.167	5.461	1.00 0.00	H
ATOM	5206	1HG2 THR	391	59.126	13.689	3.503	1.00 0.00	H
ATOM	5207	2HG2 THR	391	60.350	13.710	2.246	1.00 0.00	H
ATOM	5208	3HG2 THR	391	60.708	12.977	3.810	1.00 0.00	H
ATOM	5209	N VAL	392	63.731	13.455	3.847	1.00119.81	N
ATOM	5210	CA VAL	392	64.855	12.674	4.367	1.00119.81	C
ATOM	5211	C VAL	392	66.189	13.470	4.316	1.00119.81	C
ATOM	5212	O VAL	392	66.956	13.407	5.276	1.00119.81	O
ATOM	5213	CB VAL	392	64.910	11.335	3.570	1.00119.81	C
ATOM	5214	CG1 VAL	392	66.185	10.506	3.788	1.00119.81	C
ATOM	5215	CG2 VAL	392	63.686	10.452	3.886	1.00119.81	C
ATOM	5216	H VAL	392	63.339	13.157	2.960	1.00 0.00	H
ATOM	5217	HA VAL	392	64.661	12.449	5.417	1.00 0.00	H
ATOM	5218	HB VAL	392	64.877	11.577	2.508	1.00 0.00	H
ATOM	5219	1HG1 VAL	392	66.116	9.534	3.298	1.00 0.00	H
ATOM	5220	2HG1 VAL	392	67.056	11.008	3.371	1.00 0.00	H
ATOM	5221	3HG1 VAL	392	66.360	10.343	4.851	1.00 0.00	H
ATOM	5222	1HG2 VAL	392	63.645	9.584	3.227	1.00 0.00	H
ATOM	5223	2HG2 VAL	392	63.713	10.091	4.914	1.00 0.00	H
ATOM	5224	3HG2 VAL	392	62.748	10.992	3.762	1.00 0.00	H
ATOM	5225	N ASN	393	66.448	14.213	3.226	1.00 67.50	N
ATOM	5226	CA ASN	393	67.571	15.137	2.973	1.00 67.50	C
ATOM	5227	C ASN	393	67.902	16.097	4.137	1.00 67.50	C
ATOM	5228	O ASN	393	69.033	16.044	4.627	1.00 67.50	O
ATOM	5229	CB ASN	393	67.430	15.915	1.634	1.00 67.50	C
ATOM	5230	CG ASN	393	67.649	15.142	0.328	1.00 67.50	C
ATOM	5231	OD1 ASN	393	68.293	14.094	0.283	1.00 67.50	O
ATOM	5232	ND2 ASN	393	67.098	15.662	-0.763	1.00 67.50	N
ATOM	5233	H ASN	393	65.768	14.158	2.467	1.00 0.00	H
ATOM	5234	HA ASN	393	68.454	14.506	2.875	1.00 0.00	H
ATOM	5235	2HB ASN	393	66.440	16.363	1.571	1.00 0.00	H
ATOM	5236	HB3 ASN	393	68.121	16.756	1.624	1.00 0.00	H
ATOM	5237	2HD2 ASN	393	67.070	15.170	-1.646	1.00 0.00	H
ATOM	5238	1HD2 ASN	393	66.654	16.602	-0.719	1.00 0.00	H
ATOM	5239	N PRO	394	66.956	16.948	4.609	1.00 80.02	N
ATOM	5240	CA PRO	394	67.176	17.831	5.759	1.00 80.02	C
ATOM	5241	C PRO	394	67.266	17.102	7.105	1.00 80.02	C
ATOM	5242	O PRO	394	68.341	17.092	7.692	1.00 80.02	O
ATOM	5243	CD PRO	394	65.632	17.203	4.028	1.00 80.02	C
ATOM	5244	CB PRO	394	66.005	18.828	5.740	1.00 80.02	C
ATOM	5245	CG PRO	394	64.889	18.094	5.020	1.00 80.02	C
ATOM	5246	HA PRO	394	68.107	18.382	5.612	1.00 0.00	H
ATOM	5247	HD3 PRO	394	65.767	17.771	3.106	1.00 0.00	H
ATOM	5248	2HD PRO	394	65.075	16.309	3.779	1.00 0.00	H
ATOM	5249	2HB PRO	394	65.693	19.168	6.723	1.00 0.00	H
ATOM	5250	HB3 PRO	394	66.304	19.713	5.186	1.00 0.00	H
ATOM	5251	HG3 PRO	394	64.158	18.750	4.552	1.00 0.00	H
ATOM	5252	2HG PRO	394	64.331	17.478	5.724	1.00 0.00	H
ATOM	5253	N ILE	395	66.126	16.571	7.584	1.00123.65	N
ATOM	5254	CA ILE	395	65.644	16.168	8.922	1.00123.65	C

ATOM	5255	C	ILE	395	66.617	15.495	9.932	1.00123.65	C
ATOM	5256	O	ILE	395	66.190	14.778	10.845	1.00123.65	O
ATOM	5257	CB	ILE	395	64.303	15.398	8.707	1.00123.65	C
ATOM	5258	CG2	ILE	395	64.507	13.920	8.310	1.00123.65	C
ATOM	5259	CG1	ILE	395	63.288	15.544	9.864	1.00123.65	C
ATOM	5260	CD1	ILE	395	62.222	16.604	9.566	1.00123.65	C
ATOM	5261	H	ILE	395	65.396	16.560	6.885	1.00 0.00	H
ATOM	5262	HA	ILE	395	65.394	17.120	9.392	1.00 0.00	H
ATOM	5263	HB	ILE	395	63.818	15.856	7.845	1.00 0.00	H
ATOM	5264	1HG2	ILE	395	63.570	13.482	7.964	1.00 0.00	H
ATOM	5265	2HG2	ILE	395	65.216	13.837	7.485	1.00 0.00	H
ATOM	5266	3HG2	ILE	395	64.878	13.305	9.128	1.00 0.00	H
ATOM	5267	2HG1	ILE	395	62.773	14.599	10.035	1.00 0.00	H
ATOM	5268	HG13	ILE	395	63.791	15.803	10.795	1.00 0.00	H
ATOM	5269	1HD1	ILE	395	61.539	16.731	10.406	1.00 0.00	H
ATOM	5270	2HD1	ILE	395	62.680	17.571	9.357	1.00 0.00	H
ATOM	5271	3HD1	ILE	395	61.625	16.331	8.694	1.00 0.00	H
ATOM	5272	N	ILE	396	67.921	15.651	9.757	1.00 39.60	N
ATOM	5273	CA	ILE	396	69.015	14.839	10.250	1.00 39.60	C
ATOM	5274	C	ILE	396	70.092	15.714	10.927	1.00 39.60	C
ATOM	5275	O	ILE	396	70.927	15.158	11.648	1.00 39.60	O
ATOM	5276	CB	ILE	396	69.491	13.883	9.102	1.00 39.60	C
ATOM	5277	CG2	ILE	396	70.839	13.190	9.377	1.00 39.60	C
ATOM	5278	CG1	ILE	396	68.398	12.838	8.745	1.00 39.60	C
ATOM	5279	CD1	ILE	396	68.738	11.887	7.588	1.00 39.60	C
ATOM	5280	H	ILE	396	68.159	16.297	8.990	1.00 0.00	H
ATOM	5281	HA	ILE	396	68.641	14.202	11.050	1.00 0.00	H
ATOM	5282	HB	ILE	396	69.644	14.501	8.213	1.00 0.00	H
ATOM	5283	1HG2	ILE	396	71.130	12.542	8.552	1.00 0.00	H
ATOM	5284	2HG2	ILE	396	71.644	13.917	9.474	1.00 0.00	H
ATOM	5285	3HG2	ILE	396	70.804	12.595	10.288	1.00 0.00	H
ATOM	5286	2HG1	ILE	396	68.129	12.255	9.626	1.00 0.00	H
ATOM	5287	HG13	ILE	396	67.492	13.360	8.441	1.00 0.00	H
ATOM	5288	1HD1	ILE	396	67.855	11.319	7.294	1.00 0.00	H
ATOM	5289	2HD1	ILE	396	69.055	12.449	6.709	1.00 0.00	H
ATOM	5290	3HD1	ILE	396	69.514	11.169	7.848	1.00 0.00	H
ATOM	5291	N	TYR	397	70.065	17.050	10.789	1.00117.56	N
ATOM	5292	CA	TYR	397	71.067	17.946	11.356	1.00117.56	C
ATOM	5293	C	TYR	397	70.472	18.827	12.462	1.00117.56	C
ATOM	5294	O	TYR	397	70.749	18.571	13.629	1.00117.56	O
ATOM	5295	CB	TYR	397	71.791	18.763	10.263	1.00117.56	C
ATOM	5296	CG	TYR	397	73.101	19.349	10.771	1.00117.56	C
ATOM	5297	CD1	TYR	397	73.112	20.573	11.474	1.00117.56	C
ATOM	5298	CD2	TYR	397	74.299	18.621	10.622	1.00117.56	C
ATOM	5299	CE1	TYR	397	74.301	21.042	12.061	1.00117.56	C
ATOM	5300	CE2	TYR	397	75.493	19.107	11.189	1.00117.56	C
ATOM	5301	CZ	TYR	397	75.497	20.314	11.910	1.00117.56	C
ATOM	5302	OH	TYR	397	76.661	20.764	12.457	1.00117.56	O
ATOM	5303	H	TYR	397	69.322	17.521	10.256	1.00 0.00	H
ATOM	5304	HA	TYR	397	71.847	17.356	11.840	1.00 0.00	H
ATOM	5305	2HB	TYR	397	72.008	18.119	9.411	1.00 0.00	H
ATOM	5306	HB3	TYR	397	71.155	19.558	9.867	1.00 0.00	H
ATOM	5307	HD1	TYR	397	72.200	21.141	11.599	1.00 0.00	H
ATOM	5308	HD2	TYR	397	74.298	17.681	10.091	1.00 0.00	H
ATOM	5309	HE1	TYR	397	74.286	21.958	12.635	1.00 0.00	H
ATOM	5310	HE2	TYR	397	76.409	18.549	11.083	1.00 0.00	H

ATOM	5311	HH	TYR	397	76.509	21.426	13.158	1.00	0.00		H
ATOM	5312	N	ALA	398	69.690	19.858	12.136	1.00	54.48		N
ATOM	5313	CA	ALA	398	69.277	20.951	13.021	1.00	54.48		C
ATOM	5314	C	ALA	398	68.248	20.497	14.067	1.00	54.48		C
ATOM	5315	O	ALA	398	68.357	20.840	15.252	1.00	54.48		O
ATOM	5316	CB	ALA	398	68.659	22.078	12.178	1.00	54.48		C
ATOM	5317	H	ALA	398	69.284	19.806	11.186	1.00	0.00		H
ATOM	5318	HA	ALA	398	70.161	21.330	13.537	1.00	0.00		H
ATOM	5319	1HB	ALA	398	68.466	22.961	12.788	1.00	0.00		H
ATOM	5320	2HB	ALA	398	69.318	22.378	11.363	1.00	0.00		H
ATOM	5321	3HB	ALA	398	67.708	21.780	11.735	1.00	0.00		H
ATOM	5322	N	LEU	399	67.287	19.651	13.672	1.00	165.39		N
ATOM	5323	CA	LEU	399	66.325	19.045	14.589	1.00	165.39		C
ATOM	5324	C	LEU	399	67.013	18.030	15.520	1.00	165.39		C
ATOM	5325	O	LEU	399	66.541	17.803	16.635	1.00	165.39		O
ATOM	5326	CB	LEU	399	65.189	18.361	13.801	1.00	165.39		C
ATOM	5327	CG	LEU	399	64.241	19.355	13.091	1.00	165.39		C
ATOM	5328	CD1	LEU	399	63.420	18.648	12.008	1.00	165.39		C
ATOM	5329	CD2	LEU	399	63.307	20.094	14.065	1.00	165.39		C
ATOM	5330	H	LEU	399	67.185	19.437	12.665	1.00	0.00		H
ATOM	5331	HA	LEU	399	65.901	19.828	15.219	1.00	0.00		H
ATOM	5332	2HB	LEU	399	65.632	17.690	13.062	1.00	0.00		H
ATOM	5333	HB3	LEU	399	64.598	17.725	14.461	1.00	0.00		H
ATOM	5334	HG	LEU	399	64.845	20.106	12.579	1.00	0.00		H
ATOM	5335	1HD1	LEU	399	62.780	19.357	11.479	1.00	0.00		H
ATOM	5336	2HD1	LEU	399	64.079	18.201	11.264	1.00	0.00		H
ATOM	5337	3HD1	LEU	399	62.785	17.864	12.421	1.00	0.00		H
ATOM	5338	1HD2	LEU	399	62.653	20.778	13.520	1.00	0.00		H
ATOM	5339	2HD2	LEU	399	62.672	19.402	14.618	1.00	0.00		H
ATOM	5340	3HD2	LEU	399	63.860	20.698	14.783	1.00	0.00		H
ATOM	5341	N	ARG	400	68.191	17.508	15.147	1.00	108.50		N
ATOM	5342	CA	ARG	400	68.951	16.519	15.908	1.00	108.50		C
ATOM	5343	C	ARG	400	70.071	17.209	16.722	1.00	108.50		C
ATOM	5344	O	ARG	400	69.914	17.366	17.934	1.00	108.50		O
ATOM	5345	CB	ARG	400	69.496	15.439	14.943	1.00	108.50		C
ATOM	5346	CG	ARG	400	68.457	14.889	13.936	1.00	108.50		C
ATOM	5347	CD	ARG	400	67.144	14.335	14.527	1.00	108.50		C
ATOM	5348	NE	ARG	400	66.152	14.121	13.462	1.00	108.50		N
ATOM	5349	CZ	ARG	400	64.899	13.661	13.541	1.00	108.50		C
ATOM	5350	NH1	ARG	400	64.363	13.300	14.709	1.00	108.50		N
ATOM	5351	NH2	ARG	400	64.193	13.573	12.416	1.00	108.50		N1+
ATOM	5352	H	ARG	400	68.579	17.855	14.275	1.00	0.00		H
ATOM	5353	HA	ARG	400	68.299	16.020	16.628	1.00	0.00		H
ATOM	5354	2HB	ARG	400	70.332	15.832	14.363	1.00	0.00		H
ATOM	5355	HB3	ARG	400	69.906	14.614	15.527	1.00	0.00		H
ATOM	5356	2HG	ARG	400	68.222	15.672	13.212	1.00	0.00		H
ATOM	5357	HG3	ARG	400	68.940	14.097	13.363	1.00	0.00		H
ATOM	5358	2HD	ARG	400	67.328	13.401	15.057	1.00	0.00		H
ATOM	5359	HD3	ARG	400	66.707	15.035	15.238	1.00	0.00		H
ATOM	5360	HE	ARG	400	66.438	14.447	12.525	1.00	0.00		H
ATOM	5361	2HH1	ARG	400	63.408	12.974	14.782	1.00	0.00		H
ATOM	5362	1HH1	ARG	400	64.884	13.401	15.566	1.00	0.00		H
ATOM	5363	2HH2	ARG	400	63.232	13.270	12.351	1.00	0.00		H
ATOM	5364	1HH2	ARG	400	64.627	13.908	11.550	1.00	0.00		H
ATOM	5365	N	SER	401	71.139	17.704	16.082	1.00	66.80		N
ATOM	5366	CA	SER	401	72.270	18.443	16.656	1.00	66.80		C

ATOM	5367	C	SER	401	71.817	19.781	17.273	1.00	66.80	C
ATOM	5368	O	SER	401	70.718	20.266	17.003	1.00	66.80	O
ATOM	5369	CB	SER	401	73.357	18.665	15.572	1.00	66.80	C
ATOM	5370	OG	SER	401	74.552	19.211	16.115	1.00	66.80	O
ATOM	5371	H	SER	401	71.050	17.796	15.067	1.00	0.00	H
ATOM	5372	HA	SER	401	72.687	17.823	17.451	1.00	0.00	H
ATOM	5373	2HB	SER	401	73.606	17.721	15.085	1.00	0.00	H
ATOM	5374	HB3	SER	401	73.000	19.336	14.788	1.00	0.00	H
ATOM	5375	HG	SER	401	74.612	20.131	15.794	1.00	0.00	H
ATOM	5376	N	LYS	402	72.633	20.344	18.170	1.00	137.69	N
ATOM	5377	CA	LYS	402	72.296	21.489	19.013	1.00	137.69	C
ATOM	5378	C	LYS	402	73.427	22.524	19.114	1.00	137.69	C
ATOM	5379	O	LYS	402	73.531	23.231	20.115	1.00	137.69	O
ATOM	5380	CB	LYS	402	71.634	21.047	20.347	1.00	137.69	C
ATOM	5381	CG	LYS	402	70.268	20.325	20.222	1.00	137.69	C
ATOM	5382	CD	LYS	402	69.114	21.190	19.660	1.00	137.69	C
ATOM	5383	CE	LYS	402	67.892	20.380	19.190	1.00	137.69	C
ATOM	5384	NZ	LYS	402	68.169	19.676	17.928	1.00	137.69	N1+
ATOM	5385	H	LYS	402	73.565	19.957	18.240	1.00	0.00	H
ATOM	5386	HA	LYS	402	71.556	22.077	18.473	1.00	0.00	H
ATOM	5387	2HB	LYS	402	72.330	20.396	20.878	1.00	0.00	H
ATOM	5388	HB3	LYS	402	71.510	21.911	20.996	1.00	0.00	H
ATOM	5389	2HG	LYS	402	70.396	19.422	19.628	1.00	0.00	H
ATOM	5390	HG3	LYS	402	69.976	19.965	21.210	1.00	0.00	H
ATOM	5391	2HD	LYS	402	68.801	21.897	20.430	1.00	0.00	H
ATOM	5392	HD3	LYS	402	69.444	21.795	18.818	1.00	0.00	H
ATOM	5393	2HE	LYS	402	67.586	19.662	19.953	1.00	0.00	H
ATOM	5394	HE3	LYS	402	67.046	21.048	19.024	1.00	0.00	H
ATOM	5395	1HZ	LYS	402	67.379	19.113	17.623	1.00	0.00	H
ATOM	5396	2HZ	LYS	402	68.415	20.315	17.172	1.00	0.00	H
ATOM	5397	3HZ	LYS	402	68.962	19.052	18.032	1.00	0.00	H
ATOM	5398	N	ASP	403	74.211	22.645	18.038	1.00	115.09	N
ATOM	5399	CA	ASP	403	75.014	23.807	17.634	1.00	115.09	C
ATOM	5400	C	ASP	403	74.054	24.802	16.951	1.00	115.09	C
ATOM	5401	O	ASP	403	73.979	25.970	17.323	1.00	115.09	O
ATOM	5402	CB	ASP	403	76.089	23.386	16.576	1.00	115.09	C
ATOM	5403	CG	ASP	403	75.645	22.498	15.402	1.00	115.09	C
ATOM	5404	OD1	ASP	403	76.349	22.488	14.372	1.00	115.09	O
ATOM	5405	OD2	ASP	403	74.628	21.779	15.550	1.00	115.09	O1-
ATOM	5406	H	ASP	403	74.056	22.011	17.252	1.00	0.00	H
ATOM	5407	HA	ASP	403	75.484	24.285	18.496	1.00	0.00	H
ATOM	5408	2HB	ASP	403	76.547	24.284	16.157	1.00	0.00	H
ATOM	5409	HB3	ASP	403	76.905	22.869	17.069	1.00	0.00	H
ATOM	5410	N	LEU	404	73.234	24.301	16.014	1.00	117.72	N
ATOM	5411	CA	LEU	404	72.246	25.036	15.214	1.00	117.72	C
ATOM	5412	C	LEU	404	71.158	25.701	16.090	1.00	117.72	C
ATOM	5413	O	LEU	404	70.566	26.704	15.704	1.00	117.72	O
ATOM	5414	CB	LEU	404	71.643	24.036	14.189	1.00	117.72	C
ATOM	5415	CG	LEU	404	71.504	24.543	12.737	1.00	117.72	C
ATOM	5416	CD1	LEU	404	70.411	25.608	12.585	1.00	117.72	C
ATOM	5417	CD2	LEU	404	72.842	24.988	12.117	1.00	117.72	C
ATOM	5418	H	LEU	404	73.453	23.350	15.720	1.00	0.00	H
ATOM	5419	HA	LEU	404	72.784	25.839	14.709	1.00	0.00	H
ATOM	5420	2HB	LEU	404	72.262	23.138	14.141	1.00	0.00	H
ATOM	5421	HB3	LEU	404	70.673	23.676	14.539	1.00	0.00	H
ATOM	5422	HG	LEU	404	71.175	23.684	12.150	1.00	0.00	H

ATOM	5423	1HD1	LEU	404	70.278	25.897	11.543	1.00	0.00		H
ATOM	5424	2HD1	LEU	404	69.450	25.244	12.943	1.00	0.00		H
ATOM	5425	3HD1	LEU	404	70.654	26.512	13.140	1.00	0.00		H
ATOM	5426	1HD2	LEU	404	72.741	25.175	11.048	1.00	0.00		H
ATOM	5427	2HD2	LEU	404	73.221	25.909	12.558	1.00	0.00		H
ATOM	5428	3HD2	LEU	404	73.611	24.225	12.239	1.00	0.00		H
ATOM	5429	N	ARG	405	70.987	25.174	17.312	1.00	100.72		N
ATOM	5430	CA	ARG	405	70.231	25.704	18.449	1.00	100.72		C
ATOM	5431	C	ARG	405	70.541	27.167	18.781	1.00	100.72		C
ATOM	5432	O	ARG	405	69.651	27.891	19.220	1.00	100.72		O
ATOM	5433	CB	ARG	405	70.545	24.805	19.663	1.00	100.72		C
ATOM	5434	CG	ARG	405	70.052	25.274	21.049	1.00	100.72		C
ATOM	5435	CD	ARG	405	70.567	24.388	22.189	1.00	100.72		C
ATOM	5436	NE	ARG	405	72.047	24.414	22.289	1.00	100.72		N
ATOM	5437	CZ	ARG	405	72.767	24.563	23.411	1.00	100.72		C
ATOM	5438	NH1	ARG	405	72.145	24.749	24.568	1.00	100.72		N
ATOM	5439	NH2	ARG	405	74.097	24.513	23.344	1.00	100.72		N1+
ATOM	5440	H	ARG	405	71.624	24.418	17.495	1.00	0.00		H
ATOM	5441	HA	ARG	405	69.168	25.645	18.217	1.00	0.00		H
ATOM	5442	2HB	ARG	405	70.175	23.803	19.474	1.00	0.00		H
ATOM	5443	HB3	ARG	405	71.627	24.736	19.714	1.00	0.00		H
ATOM	5444	2HG	ARG	405	70.372	26.293	21.268	1.00	0.00		H
ATOM	5445	HG3	ARG	405	68.961	25.301	21.065	1.00	0.00		H
ATOM	5446	2HD	ARG	405	70.103	24.726	23.115	1.00	0.00		H
ATOM	5447	HD3	ARG	405	70.226	23.362	22.061	1.00	0.00		H
ATOM	5448	HE	ARG	405	72.571	24.199	21.436	1.00	0.00		H
ATOM	5449	2HH1	ARG	405	72.529	24.493	25.509	1.00	0.00		H
ATOM	5450	1HH1	ARG	405	71.410	25.462	24.551	1.00	0.00		H
ATOM	5451	2HH2	ARG	405	74.705	24.648	24.153	1.00	0.00		H
ATOM	5452	1HH2	ARG	405	74.537	24.786	22.458	1.00	0.00		H
ATOM	5453	N	HIS	406	71.812	27.564	18.650	1.00	78.86		N
ATOM	5454	CA	HIS	406	72.258	28.917	18.957	1.00	78.86		C
ATOM	5455	C	HIS	406	71.790	29.797	17.797	1.00	78.86		C
ATOM	5456	O	HIS	406	71.009	30.715	18.008	1.00	78.86		O
ATOM	5457	ND1	HIS	406	75.849	27.842	20.082	1.00	78.86		N
ATOM	5458	CG	HIS	406	74.475	27.898	19.929	1.00	78.86		C
ATOM	5459	CB	HIS	406	73.799	28.990	19.118	1.00	78.86		C
ATOM	5460	NE2	HIS	406	75.061	26.028	21.097	1.00	78.86		N
ATOM	5461	CD2	HIS	406	73.999	26.802	20.620	1.00	78.86		C
ATOM	5462	CE1	HIS	406	76.138	26.711	20.724	1.00	78.86		C
ATOM	5463	H	HIS	406	72.500	26.928	18.260	1.00	0.00		H
ATOM	5464	HA	HIS	406	71.791	29.272	19.873	1.00	0.00		H
ATOM	5465	HD1	HIS	406	76.518	28.572	19.821	1.00	0.00		H
ATOM	5466	2HB	HIS	406	74.282	28.977	18.139	1.00	0.00		H
ATOM	5467	HB3	HIS	406	74.059	29.954	19.561	1.00	0.00		H
ATOM	5468	HD2	HIS	406	72.977	26.494	20.774	1.00	0.00		H
ATOM	5469	HE1	HIS	406	77.146	26.399	20.944	1.00	0.00		H
ATOM	5470	N	ALA	407	72.165	29.432	16.564	1.00	47.08		N
ATOM	5471	CA	ALA	407	71.955	30.202	15.345	1.00	47.08		C
ATOM	5472	C	ALA	407	70.511	30.658	15.090	1.00	47.08		C
ATOM	5473	O	ALA	407	70.290	31.837	14.817	1.00	47.08		O
ATOM	5474	CB	ALA	407	72.496	29.412	14.153	1.00	47.08		C
ATOM	5475	H	ALA	407	72.725	28.599	16.486	1.00	0.00		H
ATOM	5476	HA	ALA	407	72.554	31.106	15.455	1.00	0.00		H
ATOM	5477	1HB	ALA	407	72.504	30.059	13.277	1.00	0.00		H
ATOM	5478	2HB	ALA	407	73.520	29.083	14.320	1.00	0.00		H

ATOM	5479	3HB	ALA	407	71.888	28.535	13.934	1.00	0.00		H
ATOM	5480	N	PHE	408	69.518	29.759	15.213	1.00	110.20		N
ATOM	5481	CA	PHE	408	68.111	30.125	14.990	1.00	110.20		C
ATOM	5482	C	PHE	408	67.497	30.927	16.155	1.00	110.20		C
ATOM	5483	O	PHE	408	66.375	31.411	16.022	1.00	110.20		O
ATOM	5484	CB	PHE	408	67.242	28.892	14.628	1.00	110.20		C
ATOM	5485	CG	PHE	408	67.016	27.777	15.647	1.00	110.20		C
ATOM	5486	CD1	PHE	408	66.184	27.974	16.771	1.00	110.20		C
ATOM	5487	CD2	PHE	408	67.551	26.496	15.406	1.00	110.20		C
ATOM	5488	CE1	PHE	408	65.911	26.909	17.651	1.00	110.20		C
ATOM	5489	CE2	PHE	408	67.267	25.424	16.274	1.00	110.20		C
ATOM	5490	CZ	PHE	408	66.448	25.631	17.401	1.00	110.20		C
ATOM	5491	H	PHE	408	69.744	28.809	15.484	1.00	0.00		H
ATOM	5492	HA	PHE	408	68.072	30.788	14.123	1.00	0.00		H
ATOM	5493	2HB	PHE	408	66.252	29.250	14.341	1.00	0.00		H
ATOM	5494	HB3	PHE	408	67.640	28.450	13.714	1.00	0.00		H
ATOM	5495	HD1	PHE	408	65.728	28.937	16.953	1.00	0.00		H
ATOM	5496	HD2	PHE	408	68.175	26.329	14.541	1.00	0.00		H
ATOM	5497	HE1	PHE	408	65.267	27.070	18.503	1.00	0.00		H
ATOM	5498	HE2	PHE	408	67.676	24.447	16.067	1.00	0.00		H
ATOM	5499	HZ	PHE	408	66.219	24.813	18.066	1.00	0.00		H
ATOM	5500	N	ARG	409	68.210	31.091	17.277	1.00	119.33		N
ATOM	5501	CA	ARG	409	67.854	32.013	18.350	1.00	119.33		C
ATOM	5502	C	ARG	409	68.659	33.312	18.182	1.00	119.33		C
ATOM	5503	O	ARG	409	68.066	34.389	18.190	1.00	119.33		O
ATOM	5504	CB	ARG	409	68.155	31.369	19.715	1.00	119.33		C
ATOM	5505	CG	ARG	409	67.229	30.172	20.020	1.00	119.33		C
ATOM	5506	CD	ARG	409	67.399	29.556	21.424	1.00	119.33		C
ATOM	5507	NE	ARG	409	67.664	30.558	22.469	1.00	119.33		N
ATOM	5508	CZ	ARG	409	66.880	31.541	22.914	1.00	119.33		C
ATOM	5509	NH1	ARG	409	65.687	31.753	22.359	1.00	119.33		N
ATOM	5510	NH2	ARG	409	67.319	32.313	23.906	1.00	119.33		N1+
ATOM	5511	H	ARG	409	69.149	30.706	17.303	1.00	0.00		H
ATOM	5512	HA	ARG	409	66.797	32.273	18.310	1.00	0.00		H
ATOM	5513	2HB	ARG	409	69.198	31.063	19.789	1.00	0.00		H
ATOM	5514	HB3	ARG	409	68.015	32.133	20.478	1.00	0.00		H
ATOM	5515	2HG	ARG	409	66.192	30.471	19.874	1.00	0.00		H
ATOM	5516	HG3	ARG	409	67.410	29.392	19.280	1.00	0.00		H
ATOM	5517	2HD	ARG	409	66.530	28.956	21.696	1.00	0.00		H
ATOM	5518	HD3	ARG	409	68.249	28.873	21.412	1.00	0.00		H
ATOM	5519	HE	ARG	409	68.667	30.779	22.566	1.00	0.00		H
ATOM	5520	2HH1	ARG	409	65.226	32.660	22.434	1.00	0.00		H
ATOM	5521	1HH1	ARG	409	65.340	31.133	21.650	1.00	0.00		H
ATOM	5522	2HH2	ARG	409	66.916	33.238	24.104	1.00	0.00		H
ATOM	5523	1HH2	ARG	409	68.084	32.006	24.523	1.00	0.00		H
ATOM	5524	N	SER	410	69.973	33.222	17.928	1.00	48.41		N
ATOM	5525	CA	SER	410	70.893	34.336	17.701	1.00	48.41		C
ATOM	5526	C	SER	410	70.460	35.266	16.551	1.00	48.41		C
ATOM	5527	O	SER	410	70.737	36.462	16.599	1.00	48.41		O
ATOM	5528	CB	SER	410	72.307	33.781	17.426	1.00	48.41		C
ATOM	5529	OG	SER	410	72.797	32.985	18.493	1.00	48.41		O
ATOM	5530	H	SER	410	70.413	32.302	17.982	1.00	0.00		H
ATOM	5531	HA	SER	410	70.912	34.935	18.609	1.00	0.00		H
ATOM	5532	2HB	SER	410	72.312	33.188	16.511	1.00	0.00		H
ATOM	5533	HB3	SER	410	73.010	34.599	17.266	1.00	0.00		H
ATOM	5534	HG	SER	410	72.713	33.468	19.319	1.00	0.00		H

ATOM	5535	N	MET	411	69.754	34.730	15.547	1.00138.31	N
ATOM	5536	CA	MET	411	69.224	35.477	14.410	1.00138.31	C
ATOM	5537	C	MET	411	68.050	36.404	14.799	1.00138.31	C
ATOM	5538	O	MET	411	67.842	37.400	14.112	1.00138.31	O
ATOM	5539	CB	MET	411	68.768	34.456	13.342	1.00138.31	C
ATOM	5540	CG	MET	411	68.424	35.073	11.977	1.00138.31	C
ATOM	5541	SD	MET	411	68.213	33.846	10.656	1.00138.31	S
ATOM	5542	CE	MET	411	67.642	34.944	9.328	1.00138.31	C
ATOM	5543	H	MET	411	69.639	33.724	15.545	1.00 0.00	H
ATOM	5544	HA	MET	411	70.026	36.095	14.000	1.00 0.00	H
ATOM	5545	2HB	MET	411	69.580	33.748	13.178	1.00 0.00	H
ATOM	5546	HB3	MET	411	67.924	33.869	13.707	1.00 0.00	H
ATOM	5547	2HG	MET	411	67.506	35.659	12.053	1.00 0.00	H
ATOM	5548	HG3	MET	411	69.211	35.766	11.676	1.00 0.00	H
ATOM	5549	1HE	MET	411	67.570	34.401	8.386	1.00 0.00	H
ATOM	5550	2HE	MET	411	66.659	35.351	9.567	1.00 0.00	H
ATOM	5551	3HE	MET	411	68.331	35.776	9.190	1.00 0.00	H
ATOM	5552	N	PHE	412	67.284	36.099	15.861	1.00 65.01	N
ATOM	5553	CA	PHE	412	66.238	36.974	16.410	1.00 65.01	C
ATOM	5554	C	PHE	412	65.790	36.595	17.848	1.00 65.01	C
ATOM	5555	O	PHE	412	66.002	37.429	18.729	1.00 65.01	O
ATOM	5556	CB	PHE	412	65.089	37.264	15.396	1.00 65.01	C
ATOM	5557	CG	PHE	412	63.807	37.853	15.969	1.00 65.01	C
ATOM	5558	CD1	PHE	412	63.820	39.138	16.552	1.00 65.01	C
ATOM	5559	CD2	PHE	412	62.601	37.121	15.921	1.00 65.01	C
ATOM	5560	CE1	PHE	412	62.640	39.681	17.095	1.00 65.01	C
ATOM	5561	CE2	PHE	412	61.421	37.667	16.462	1.00 65.01	C
ATOM	5562	CZ	PHE	412	61.440	38.946	17.051	1.00 65.01	C
ATOM	5563	H	PHE	412	67.591	35.333	16.452	1.00 0.00	H
ATOM	5564	HA	PHE	412	66.733	37.938	16.547	1.00 0.00	H
ATOM	5565	2HB	PHE	412	65.442	37.988	14.662	1.00 0.00	H
ATOM	5566	HB3	PHE	412	64.854	36.381	14.803	1.00 0.00	H
ATOM	5567	HD1	PHE	412	64.736	39.711	16.590	1.00 0.00	H
ATOM	5568	HD2	PHE	412	62.567	36.143	15.464	1.00 0.00	H
ATOM	5569	HE1	PHE	412	62.654	40.666	17.540	1.00 0.00	H
ATOM	5570	HE2	PHE	412	60.496	37.110	16.419	1.00 0.00	H
ATOM	5571	HZ	PHE	412	60.533	39.367	17.461	1.00 0.00	H
ATOM	5572	N	PRO	413	65.156	35.418	18.113	1.00190.97	N
ATOM	5573	CA	PRO	413	64.513	34.995	19.394	1.00190.97	C
ATOM	5574	C	PRO	413	65.247	35.101	20.765	1.00190.97	C
ATOM	5575	O	PRO	413	64.925	34.318	21.666	1.00190.97	O
ATOM	5576	CD	PRO	413	64.888	34.408	17.076	1.00190.97	C
ATOM	5577	CB	PRO	413	64.106	33.525	19.167	1.00190.97	C
ATOM	5578	CG	PRO	413	63.939	33.376	17.674	1.00190.97	C
ATOM	5579	HA	PRO	413	63.608	35.598	19.480	1.00 0.00	H
ATOM	5580	HD3	PRO	413	64.434	34.815	16.179	1.00 0.00	H
ATOM	5581	2HD	PRO	413	65.824	33.933	16.783	1.00 0.00	H
ATOM	5582	2HB	PRO	413	64.898	32.851	19.496	1.00 0.00	H
ATOM	5583	HB3	PRO	413	63.200	33.258	19.713	1.00 0.00	H
ATOM	5584	HG3	PRO	413	62.913	33.628	17.400	1.00 0.00	H
ATOM	5585	2HG	PRO	413	64.136	32.364	17.317	1.00 0.00	H
ATOM	5586	N	SER	414	66.195	36.023	20.946	1.00222.88	N
ATOM	5587	CA	SER	414	67.154	36.266	22.029	1.00222.88	C
ATOM	5588	C	SER	414	68.506	35.596	21.727	1.00222.88	C
ATOM	5589	O	SER	414	68.546	34.478	21.225	1.00222.88	O
ATOM	5590	CB	SER	414	66.599	36.165	23.475	1.00222.88	C

ATOM	5591	OG	SER	414	66.246	34.848	23.846	1.00222.88	O
ATOM	5592	H	SER	414	66.321	36.628	20.132	1.00 0.00	H
ATOM	5593	HA	SER	414	67.352	37.332	21.902	1.00 0.00	H
ATOM	5594	2HB	SER	414	67.344	36.530	24.184	1.00 0.00	H
ATOM	5595	HB3	SER	414	65.726	36.810	23.586	1.00 0.00	H
ATOM	5596	HG	SER	414	65.580	34.620	23.191	1.00 0.00	H
ATOM	5597	N	CYS	415	69.603	36.317	21.985	1.00142.77	N
ATOM	5598	CA	CYS	415	70.961	36.098	21.475	1.00142.77	C
ATOM	5599	C	CYS	415	71.594	34.707	21.689	1.00142.77	C
ATOM	5600	O	CYS	415	72.399	34.275	20.865	1.00142.77	O
ATOM	5601	CB	CYS	415	71.871	37.213	22.042	1.00142.77	C
ATOM	5602	SG	CYS	415	71.766	37.332	23.858	1.00142.77	S
ATOM	5603	H	CYS	415	69.484	37.181	22.492	1.00 0.00	H
ATOM	5604	HA	CYS	415	70.910	36.245	20.397	1.00 0.00	H
ATOM	5605	2HB	CYS	415	72.909	37.054	21.746	1.00 0.00	H
ATOM	5606	HB3	CYS	415	71.580	38.179	21.631	1.00 0.00	H
ATOM	5607	HG	CYS	415	72.685	38.293	24.007	1.00 0.00	H
ATOM	5608	N	GLU	416	71.270	34.047	22.802	1.00 57.61	N
ATOM	5609	CA	GLU	416	71.937	32.861	23.339	1.00 57.61	C
ATOM	5610	C	GLU	416	71.217	31.581	22.833	1.00 57.61	C
ATOM	5611	O	GLU	416	70.115	31.643	22.292	1.00 57.61	O
ATOM	5612	CB	GLU	416	71.872	33.052	24.881	1.00 57.61	C
ATOM	5613	CG	GLU	416	72.928	32.317	25.734	1.00 57.61	C
ATOM	5614	CD	GLU	416	72.595	30.855	25.928	1.00 57.61	C
ATOM	5615	OE1	GLU	416	71.519	30.594	26.501	1.00 57.61	O
ATOM	5616	OE2	GLU	416	73.279	30.040	25.272	1.00 57.61	O1-
ATOM	5617	H	GLU	416	70.521	34.435	23.352	1.00 0.00	H
ATOM	5618	HA	GLU	416	72.977	32.840	23.009	1.00 0.00	H
ATOM	5619	2HB	GLU	416	72.020	34.110	25.107	1.00 0.00	H
ATOM	5620	HB3	GLU	416	70.870	32.835	25.248	1.00 0.00	H
ATOM	5621	2HG	GLU	416	73.924	32.425	25.304	1.00 0.00	H
ATOM	5622	HG3	GLU	416	72.971	32.765	26.727	1.00 0.00	H
ATOM	5623	N	GLY	417	71.790	30.392	23.035	1.00132.42	N
ATOM	5624	CA	GLY	417	71.327	29.090	22.553	1.00132.42	C
ATOM	5625	C	GLY	417	70.681	28.277	23.678	1.00132.42	C
ATOM	5626	O	GLY	417	70.891	27.070	23.805	1.00132.42	O
ATOM	5627	H	GLY	417	72.538	30.349	23.739	1.00 0.00	H
ATOM	5628	2HA	GLY	417	70.611	29.190	21.739	1.00 0.00	H
ATOM	5629	HA3	GLY	417	72.188	28.541	22.172	1.00 0.00	H
ATOM	5630	N	THR	418	69.894	28.978	24.486	1.00290.61	N
ATOM	5631	CA	THR	418	69.255	28.624	25.740	1.00290.61	C
ATOM	5632	C	THR	418	68.442	27.314	25.687	1.00290.61	C
ATOM	5633	O	THR	418	67.831	26.971	24.672	1.00290.61	O
ATOM	5634	CB	THR	418	68.390	29.852	26.143	1.00290.61	C
ATOM	5635	OG1	THR	418	69.050	31.060	25.767	1.00290.61	O
ATOM	5636	CG2	THR	418	68.106	29.934	27.648	1.00290.61	C
ATOM	5637	H	THR	418	69.913	29.981	24.357	1.00 0.00	H
ATOM	5638	HA	THR	418	70.063	28.496	26.463	1.00 0.00	H
ATOM	5639	HB	THR	418	67.441	29.818	25.605	1.00 0.00	H
ATOM	5640	HG1	THR	418	69.954	30.990	26.143	1.00 0.00	H
ATOM	5641	1HG2	THR	418	67.515	30.818	27.889	1.00 0.00	H
ATOM	5642	2HG2	THR	418	67.551	29.066	28.003	1.00 0.00	H
ATOM	5643	3HG2	THR	418	69.035	29.993	28.218	1.00 0.00	H
ATOM	5644	N	ALA	419	68.425	26.595	26.813	1.00271.58	N
ATOM	5645	CA	ALA	419	67.554	25.460	27.097	1.00271.58	C
ATOM	5646	C	ALA	419	67.359	25.419	28.611	1.00271.58	C

ATOM	5647	O	ALA	419	66.267	25.624	29.124	1.00271.58	O
ATOM	5648	CB	ALA	419	68.113	24.160	26.492	1.00271.58	C
ATOM	5649	H	ALA	419	68.921	26.989	27.608	1.00 0.00	H
ATOM	5650	HA	ALA	419	66.573	25.653	26.656	1.00 0.00	H
ATOM	5651	1HB	ALA	419	67.477	23.311	26.746	1.00 0.00	H
ATOM	5652	2HB	ALA	419	68.157	24.225	25.405	1.00 0.00	H
ATOM	5653	3HB	ALA	419	69.119	23.943	26.855	1.00 0.00	H
ATOM	5654	N	GLN	420	68.484	25.271	29.313	1.00261.32	N
ATOM	5655	CA	GLN	420	68.699	25.724	30.686	1.00261.32	C
ATOM	5656	C	GLN	420	69.280	27.160	30.556	1.00261.32	C
ATOM	5657	O	GLN	420	69.790	27.486	29.477	1.00261.32	O
ATOM	5658	CB	GLN	420	69.752	24.811	31.392	1.00261.32	C
ATOM	5659	CG	GLN	420	69.896	23.351	30.879	1.00261.32	C
ATOM	5660	CD	GLN	420	70.729	23.175	29.600	1.00261.32	C
ATOM	5661	OE1	GLN	420	70.797	22.085	29.035	1.00261.32	O
ATOM	5662	NE2	GLN	420	71.368	24.225	29.100	1.00261.32	N
ATOM	5663	H	GLN	420	69.326	25.149	28.769	1.00 0.00	H
ATOM	5664	HA	GLN	420	67.755	25.728	31.234	1.00 0.00	H
ATOM	5665	2HB	GLN	420	70.736	25.280	31.429	1.00 0.00	H
ATOM	5666	HB3	GLN	420	69.464	24.747	32.441	1.00 0.00	H
ATOM	5667	2HG	GLN	420	70.379	22.754	31.652	1.00 0.00	H
ATOM	5668	HG3	GLN	420	68.911	22.906	30.730	1.00 0.00	H
ATOM	5669	2HE2	GLN	420	71.887	24.142	28.215	1.00 0.00	H
ATOM	5670	1HE2	GLN	420	71.495	25.073	29.646	1.00 0.00	H
ATOM	5671	N	PRO	421	69.256	28.005	31.610	1.00169.99	N
ATOM	5672	CA	PRO	421	69.738	29.401	31.548	1.00169.99	C
ATOM	5673	C	PRO	421	71.275	29.575	31.533	1.00169.99	C
ATOM	5674	O	PRO	421	71.757	30.703	31.523	1.00169.99	O
ATOM	5675	CD	PRO	421	68.699	27.701	32.932	1.00169.99	C
ATOM	5676	CB	PRO	421	69.110	30.069	32.782	1.00169.99	C
ATOM	5677	CG	PRO	421	68.953	28.942	33.790	1.00169.99	C
ATOM	5678	HA	PRO	421	69.358	29.887	30.648	1.00 0.00	H
ATOM	5679	HD3	PRO	421	67.626	27.524	32.841	1.00 0.00	H
ATOM	5680	2HD	PRO	421	69.155	26.822	33.386	1.00 0.00	H
ATOM	5681	2HB	PRO	421	69.694	30.904	33.177	1.00 0.00	H
ATOM	5682	HB3	PRO	421	68.129	30.466	32.519	1.00 0.00	H
ATOM	5683	HG3	PRO	421	68.159	29.129	34.515	1.00 0.00	H
ATOM	5684	2HG	PRO	421	69.885	28.824	34.346	1.00 0.00	H
ATOM	5685	N	LEU	422	72.047	28.484	31.523	1.00240.30	N
ATOM	5686	CA	LEU	422	73.491	28.434	31.339	1.00240.30	C
ATOM	5687	C	LEU	422	73.779	27.126	30.591	1.00240.30	C
ATOM	5688	O	LEU	422	73.011	26.163	30.724	1.00240.30	O
ATOM	5689	CB	LEU	422	74.209	28.615	32.698	1.00240.30	C
ATOM	5690	CG	LEU	422	75.755	28.690	32.641	1.00240.30	C
ATOM	5691	CD1	LEU	422	76.295	29.704	33.663	1.00240.30	C
ATOM	5692	CD2	LEU	422	76.423	27.322	32.870	1.00240.30	C
ATOM	5693	H	LEU	422	71.602	27.582	31.473	1.00 0.00	H
ATOM	5694	HA	LEU	422	73.777	29.258	30.680	1.00 0.00	H
ATOM	5695	2HB	LEU	422	73.835	29.545	33.129	1.00 0.00	H
ATOM	5696	HB3	LEU	422	73.898	27.836	33.396	1.00 0.00	H
ATOM	5697	HG	LEU	422	76.050	29.058	31.657	1.00 0.00	H
ATOM	5698	1HD1	LEU	422	77.381	29.781	33.611	1.00 0.00	H
ATOM	5699	2HD1	LEU	422	75.894	30.702	33.481	1.00 0.00	H
ATOM	5700	3HD1	LEU	422	76.030	29.424	34.684	1.00 0.00	H
ATOM	5701	1HD2	LEU	422	77.507	27.400	32.786	1.00 0.00	H
ATOM	5702	2HD2	LEU	422	76.200	26.937	33.866	1.00 0.00	H

ATOM	5703	3HD2 LEU	422	76.099	26.573	32.150	1.00	0.00		H
ATOM	5704	N ASP	423	74.842	27.076	29.777	1.00	190.14		N
ATOM	5705	CA ASP	423	75.205	25.904	28.984	1.00	190.14		C
ATOM	5706	C ASP	423	76.661	25.937	28.508	1.00	190.14		C
ATOM	5707	O ASP	423	77.368	26.929	28.659	1.00	190.14		O
ATOM	5708	CB ASP	423	74.228	25.722	27.790	1.00	190.14		C
ATOM	5709	CG ASP	423	74.014	24.272	27.391	1.00	190.14		C
ATOM	5710	OD1 ASP	423	74.854	23.389	27.662	1.00	190.14		O
ATOM	5711	OD2 ASP	423	72.919	23.955	26.888	1.00	190.14		O1-
ATOM	5712	H ASP	423	75.463	27.873	29.708	1.00	0.00		H
ATOM	5713	HA ASP	423	75.122	25.047	29.657	1.00	0.00		H
ATOM	5714	2HB ASP	423	73.249	26.141	28.022	1.00	0.00		H
ATOM	5715	HB3 ASP	423	74.574	26.280	26.921	1.00	0.00		H
ATOM	5716	N ASN	424	77.057	24.863	27.818	1.00	190.43		N
ATOM	5717	CA ASN	424	78.044	24.863	26.745	1.00	190.43		C
ATOM	5718	C ASN	424	77.352	25.525	25.539	1.00	190.43		C
ATOM	5719	O ASN	424	76.519	24.909	24.868	1.00	190.43		O
ATOM	5720	CB ASN	424	78.427	23.402	26.376	1.00	190.43		C
ATOM	5721	CG ASN	424	79.337	22.659	27.360	1.00	190.43		C
ATOM	5722	OD1 ASN	424	79.909	21.628	27.011	1.00	190.43		O
ATOM	5723	ND2 ASN	424	79.481	23.129	28.594	1.00	190.43		N
ATOM	5724	H ASN	424	76.307	24.162	27.730	1.00	0.00		H
ATOM	5725	HA ASN	424	78.931	25.434	27.027	1.00	0.00		H
ATOM	5726	2HB ASN	424	77.525	22.807	26.244	1.00	0.00		H
ATOM	5727	HB3 ASN	424	78.932	23.382	25.410	1.00	0.00		H
ATOM	5728	2HD2 ASN	424	80.077	22.650	29.251	1.00	0.00		H
ATOM	5729	1HD2 ASN	424	78.974	23.959	28.879	1.00	0.00		H
ATOM	5730	N SER	425	77.656	26.803	25.317	1.00	212.17		N
ATOM	5731	CA SER	425	77.101	27.673	24.293	1.00	212.17		C
ATOM	5732	C SER	425	78.146	28.760	24.004	1.00	212.17		C
ATOM	5733	O SER	425	78.935	29.096	24.889	1.00	212.17		O
ATOM	5734	CB SER	425	75.725	28.196	24.746	1.00	212.17		C
ATOM	5735	OG SER	425	75.091	28.981	23.764	1.00	212.17		O
ATOM	5736	H SER	425	78.300	27.283	25.937	1.00	0.00		H
ATOM	5737	HA SER	425	76.967	27.086	23.385	1.00	0.00		H
ATOM	5738	2HB SER	425	75.051	27.374	24.983	1.00	0.00		H
ATOM	5739	HB3 SER	425	75.825	28.796	25.652	1.00	0.00		H
ATOM	5740	HG SER	425	74.374	29.431	24.252	1.00	0.00		H
ATOM	5741	N MET	426	78.197	29.251	22.762	1.00	167.53		N
ATOM	5742	CA MET	426	79.049	30.334	22.266	1.00	167.53		C
ATOM	5743	C MET	426	78.547	30.697	20.856	1.00	167.53		C
ATOM	5744	O MET	426	77.749	29.956	20.266	1.00	167.53		O
ATOM	5745	CB MET	426	80.555	29.959	22.338	1.00	167.53		C
ATOM	5746	CG MET	426	81.556	31.053	21.915	1.00	167.53		C
ATOM	5747	SD MET	426	81.321	32.688	22.669	1.00	167.53		S
ATOM	5748	CE MET	426	81.584	32.302	24.422	1.00	167.53		C
ATOM	5749	H MET	426	77.425	29.024	22.146	1.00	0.00		H
ATOM	5750	HA MET	426	78.863	31.197	22.908	1.00	0.00		H
ATOM	5751	2HB MET	426	80.812	29.688	23.360	1.00	0.00		H
ATOM	5752	HB3 MET	426	80.738	29.062	21.751	1.00	0.00		H
ATOM	5753	2HG MET	426	82.568	30.717	22.147	1.00	0.00		H
ATOM	5754	HG3 MET	426	81.540	31.187	20.834	1.00	0.00		H
ATOM	5755	1HE MET	426	81.532	33.214	25.017	1.00	0.00		H
ATOM	5756	2HE MET	426	80.820	31.616	24.790	1.00	0.00		H
ATOM	5757	3HE MET	426	82.563	31.849	24.575	1.00	0.00		H
ATOM	5758	N GLY	427	78.992	31.839	20.324	1.00	52.63		N

ATOM	5759	CA	GLY	427	78.462	32.457	19.120	1.00	52.63	C
ATOM	5760	C	GLY	427	79.431	32.377	17.939	1.00	52.63	C
ATOM	5761	O	GLY	427	80.564	32.868	17.995	1.00	52.63	O
ATOM	5762	H	GLY	427	79.695	32.360	20.834	1.00	0.00	H
ATOM	5763	2HA	GLY	427	77.483	32.051	18.857	1.00	0.00	H
ATOM	5764	HA3	GLY	427	78.294	33.513	19.334	1.00	0.00	H
ATOM	5765	N	ASP	428	78.923	31.826	16.832	1.00	119.38	N
ATOM	5766	CA	ASP	428	79.503	31.889	15.484	1.00	119.38	C
ATOM	5767	C	ASP	428	78.503	32.477	14.469	1.00	119.38	C
ATOM	5768	O	ASP	428	78.826	32.702	13.301	1.00	119.38	O
ATOM	5769	CB	ASP	428	80.129	30.537	15.070	1.00	119.38	C
ATOM	5770	CG	ASP	428	81.587	30.648	14.642	1.00	119.38	C
ATOM	5771	OD1	ASP	428	82.457	30.941	15.497	1.00	119.38	O
ATOM	5772	OD2	ASP	428	81.834	30.515	13.427	1.00	119.38	O1-
ATOM	5773	H	ASP	428	78.035	31.359	16.921	1.00	0.00	H
ATOM	5774	HA	ASP	428	80.290	32.635	15.522	1.00	0.00	H
ATOM	5775	2HB	ASP	428	80.094	29.839	15.903	1.00	0.00	H
ATOM	5776	HB3	ASP	428	79.569	30.072	14.258	1.00	0.00	H
ATOM	5777	N	SER	429	77.295	32.795	14.938	1.00	96.14	N
ATOM	5778	CA	SER	429	76.355	33.730	14.334	1.00	96.14	C
ATOM	5779	C	SER	429	76.684	35.114	14.917	1.00	96.14	C
ATOM	5780	O	SER	429	77.284	35.200	15.988	1.00	96.14	O
ATOM	5781	CB	SER	429	74.937	33.334	14.788	1.00	96.14	C
ATOM	5782	OG	SER	429	74.611	32.054	14.277	1.00	96.14	O
ATOM	5783	H	SER	429	77.162	32.683	15.929	1.00	0.00	H
ATOM	5784	HA	SER	429	76.440	33.758	13.249	1.00	0.00	H
ATOM	5785	2HB	SER	429	74.862	33.319	15.877	1.00	0.00	H
ATOM	5786	HB3	SER	429	74.198	34.052	14.428	1.00	0.00	H
ATOM	5787	HG	SER	429	74.501	32.129	13.324	1.00	0.00	H
ATOM	5788	N	ASP	430	76.332	36.181	14.193	1.00	62.73	N
ATOM	5789	CA	ASP	430	76.762	37.570	14.400	1.00	62.73	C
ATOM	5790	C	ASP	430	76.425	38.137	15.792	1.00	62.73	C
ATOM	5791	O	ASP	430	77.206	38.890	16.380	1.00	62.73	O
ATOM	5792	CB	ASP	430	76.142	38.507	13.328	1.00	62.73	C
ATOM	5793	CG	ASP	430	76.073	38.021	11.880	1.00	62.73	C
ATOM	5794	OD1	ASP	430	75.449	38.760	11.088	1.00	62.73	O
ATOM	5795	OD2	ASP	430	76.615	36.949	11.533	1.00	62.73	O1-
ATOM	5796	H	ASP	430	75.965	36.012	13.262	1.00	0.00	H
ATOM	5797	HA	ASP	430	77.844	37.586	14.272	1.00	0.00	H
ATOM	5798	2HB	ASP	430	75.119	38.758	13.611	1.00	0.00	H
ATOM	5799	HB3	ASP	430	76.685	39.452	13.331	1.00	0.00	H
ATOM	5800	N	CYS	431	75.243	37.776	16.304	1.00	87.51	N
ATOM	5801	CA	CYS	431	74.718	38.183	17.604	1.00	87.51	C
ATOM	5802	C	CYS	431	75.428	37.390	18.718	1.00	87.51	C
ATOM	5803	O	CYS	431	75.840	36.254	18.495	1.00	87.51	O
ATOM	5804	CB	CYS	431	73.209	37.888	17.615	1.00	87.51	C
ATOM	5805	SG	CYS	431	72.350	38.820	18.912	1.00	87.51	S
ATOM	5806	H	CYS	431	74.733	37.074	15.793	1.00	0.00	H
ATOM	5807	HA	CYS	431	74.892	39.254	17.726	1.00	0.00	H
ATOM	5808	2HB	CYS	431	72.759	38.176	16.664	1.00	0.00	H
ATOM	5809	HB3	CYS	431	73.018	36.825	17.755	1.00	0.00	H
ATOM	5810	HG	CYS	431	71.120	38.527	18.469	1.00	0.00	H
ATOM	5811	N	LEU	432	75.582	38.024	19.889	1.00	300.90	N
ATOM	5812	CA	LEU	432	76.495	37.722	21.007	1.00	300.90	C
ATOM	5813	C	LEU	432	77.777	38.570	20.943	1.00	300.90	C
ATOM	5814	O	LEU	432	78.560	38.551	21.884	1.00	300.90	O

ATOM	5815	CB	LEU	432	76.763	36.219	21.299	1.00300.90	C
ATOM	5816	CG	LEU	432	75.526	35.372	21.671	1.00300.90	C
ATOM	5817	CD1	LEU	432	75.794	33.878	21.432	1.00300.90	C
ATOM	5818	CD2	LEU	432	75.085	35.611	23.125	1.00300.90	C
ATOM	5819	H	LEU	432	75.106	38.911	19.969	1.00 0.00	H
ATOM	5820	HA	LEU	432	75.982	38.112	21.886	1.00 0.00	H
ATOM	5821	2HB	LEU	432	77.275	35.780	20.443	1.00 0.00	H
ATOM	5822	HB3	LEU	432	77.490	36.135	22.109	1.00 0.00	H
ATOM	5823	HG	LEU	432	74.705	35.650	21.012	1.00 0.00	H
ATOM	5824	1HD1	LEU	432	74.924	33.274	21.690	1.00 0.00	H
ATOM	5825	2HD1	LEU	432	76.013	33.688	20.382	1.00 0.00	H
ATOM	5826	3HD1	LEU	432	76.637	33.520	22.025	1.00 0.00	H
ATOM	5827	1HD2	LEU	432	74.194	35.032	23.368	1.00 0.00	H
ATOM	5828	2HD2	LEU	432	75.865	35.319	23.830	1.00 0.00	H
ATOM	5829	3HD2	LEU	432	74.850	36.658	23.312	1.00 0.00	H
ATOM	5830	N	HIS	433	77.972	39.319	19.845	1.00176.75	N
ATOM	5831	CA	HIS	433	79.133	40.150	19.517	1.00176.75	C
ATOM	5832	C	HIS	433	80.224	39.273	18.897	1.00176.75	C
ATOM	5833	O	HIS	433	81.279	39.041	19.490	1.00176.75	O
ATOM	5834	ND1	HIS	433	80.519	43.108	19.358	1.00176.75	N
ATOM	5835	CG	HIS	433	80.708	42.047	20.231	1.00176.75	C
ATOM	5836	CB	HIS	433	79.610	41.095	20.650	1.00176.75	C
ATOM	5837	NE2	HIS	433	82.681	43.102	19.857	1.00176.75	N
ATOM	5838	CD2	HIS	433	82.051	42.060	20.537	1.00176.75	C
ATOM	5839	CE1	HIS	433	81.707	43.692	19.176	1.00176.75	C
ATOM	5840	H	HIS	433	77.311	39.170	19.099	1.00 0.00	H
ATOM	5841	HA	HIS	433	78.793	40.802	18.712	1.00 0.00	H
ATOM	5842	HD1	HIS	433	79.657	43.431	18.948	1.00 0.00	H
ATOM	5843	2HB	HIS	433	78.776	41.675	21.043	1.00 0.00	H
ATOM	5844	HB3	HIS	433	80.005	40.518	21.487	1.00 0.00	H
ATOM	5845	HD2	HIS	433	82.610	41.388	21.173	1.00 0.00	H
ATOM	5846	HE1	HIS	433	81.867	44.552	18.539	1.00 0.00	H
ATOM	5847	N	LYS	434	79.960	38.729	17.700	1.00214.64	N
ATOM	5848	CA	LYS	434	80.891	37.844	17.012	1.00214.64	C
ATOM	5849	C	LYS	434	82.029	38.666	16.373	1.00214.64	C
ATOM	5850	O	LYS	434	82.100	38.866	15.160	1.00214.64	O
ATOM	5851	CB	LYS	434	80.133	36.999	15.967	1.00214.64	C
ATOM	5852	CG	LYS	434	80.713	35.584	15.787	1.00214.64	C
ATOM	5853	CD	LYS	434	82.184	35.534	15.330	1.00214.64	C
ATOM	5854	CE	LYS	434	82.687	34.111	15.075	1.00214.64	C
ATOM	5855	NZ	LYS	434	82.977	33.361	16.305	1.00214.64	N1+
ATOM	5856	H	LYS	434	79.069	38.920	17.254	1.00 0.00	H
ATOM	5857	HA	LYS	434	81.320	37.164	17.751	1.00 0.00	H
ATOM	5858	2HB	LYS	434	79.109	36.872	16.313	1.00 0.00	H
ATOM	5859	HB3	LYS	434	80.050	37.507	15.006	1.00 0.00	H
ATOM	5860	2HG	LYS	434	80.602	35.051	16.729	1.00 0.00	H
ATOM	5861	HG3	LYS	434	80.090	35.055	15.065	1.00 0.00	H
ATOM	5862	2HD	LYS	434	82.276	36.103	14.403	1.00 0.00	H
ATOM	5863	HD3	LYS	434	82.845	36.019	16.048	1.00 0.00	H
ATOM	5864	2HE	LYS	434	81.952	33.550	14.515	1.00 0.00	H
ATOM	5865	HE3	LYS	434	83.572	34.142	14.444	1.00 0.00	H
ATOM	5866	1HZ	LYS	434	83.876	33.651	16.685	1.00 0.00	H
ATOM	5867	2HZ	LYS	434	82.239	33.425	16.995	1.00 0.00	H
ATOM	5868	3HZ	LYS	434	83.014	32.366	16.030	1.00 0.00	H
ATOM	5869	N	HIS	435	82.943	39.130	17.222	1.00147.45	N
ATOM	5870	CA	HIS	435	84.281	39.609	16.875	1.00147.45	C

ATOM	5871	C	HIS	435	85.341	38.717	17.547	1.00147.45	C
ATOM	5872	O	HIS	435	86.532	38.868	17.290	1.00147.45	O
ATOM	5873	ND1	HIS	435	82.734	41.681	15.391	1.00147.45	N
ATOM	5874	CG	HIS	435	83.620	42.070	16.387	1.00147.45	C
ATOM	5875	CB	HIS	435	84.434	41.105	17.226	1.00147.45	C
ATOM	5876	NE2	HIS	435	82.638	43.893	15.449	1.00147.45	N
ATOM	5877	CD2	HIS	435	83.561	43.446	16.399	1.00147.45	C
ATOM	5878	CE1	HIS	435	82.185	42.785	14.881	1.00147.45	C
ATOM	5879	H	HIS	435	82.683	39.125	18.207	1.00 0.00	H
ATOM	5880	HA	HIS	435	84.460	39.498	15.804	1.00 0.00	H
ATOM	5881	HD1	HIS	435	82.511	40.721	15.127	1.00 0.00	H
ATOM	5882	2HB	HIS	435	84.187	41.271	18.275	1.00 0.00	H
ATOM	5883	HB3	HIS	435	85.480	41.400	17.119	1.00 0.00	H
ATOM	5884	HD2	HIS	435	84.097	44.143	17.029	1.00 0.00	H
ATOM	5885	HE1	HIS	435	81.445	42.781	14.094	1.00 0.00	H
ATOM	5886	N	ALA	436	84.905	37.733	18.350	1.00 94.37	N
ATOM	5887	CA	ALA	436	85.734	36.682	18.921	1.00 94.37	C
ATOM	5888	C	ALA	436	85.975	35.613	17.842	1.00 94.37	C
ATOM	5889	O	ALA	436	85.036	34.948	17.393	1.00 94.37	O
ATOM	5890	CB	ALA	436	84.968	36.044	20.094	1.00 94.37	C
ATOM	5891	H	ALA	436	83.911	37.657	18.487	1.00 0.00	H
ATOM	5892	HA	ALA	436	86.678	37.098	19.279	1.00 0.00	H
ATOM	5893	1HB	ALA	436	85.545	35.234	20.541	1.00 0.00	H
ATOM	5894	2HB	ALA	436	84.777	36.776	20.879	1.00 0.00	H
ATOM	5895	3HB	ALA	436	84.007	35.631	19.786	1.00 0.00	H
ATOM	5896	N	ASN	437	87.238	35.482	17.437	1.00173.88	N
ATOM	5897	CA	ASN	437	87.840	34.516	16.518	1.00173.88	C
ATOM	5898	C	ASN	437	89.358	34.586	16.763	1.00173.88	C
ATOM	5899	O	ASN	437	89.815	35.386	17.581	1.00173.88	O
ATOM	5900	CB	ASN	437	87.430	34.789	15.038	1.00173.88	C
ATOM	5901	CG	ASN	437	86.569	33.682	14.421	1.00173.88	C
ATOM	5902	OD1	ASN	437	85.685	33.137	15.071	1.00173.88	O
ATOM	5903	ND2	ASN	437	86.798	33.313	13.164	1.00173.88	N
ATOM	5904	H	ASN	437	87.932	36.089	17.862	1.00 0.00	H
ATOM	5905	HA	ASN	437	87.526	33.517	16.830	1.00 0.00	H
ATOM	5906	2HB	ASN	437	86.868	35.721	14.965	1.00 0.00	H
ATOM	5907	HB3	ASN	437	88.310	34.938	14.411	1.00 0.00	H
ATOM	5908	2HD2	ASN	437	86.186	32.615	12.767	1.00 0.00	H
ATOM	5909	1HD2	ASN	437	87.489	33.762	12.561	1.00 0.00	H
ATOM	5910	N	ASN	438	90.158	33.782	16.058	1.00100.78	N
ATOM	5911	CA	ASN	438	91.623	33.838	16.084	1.00100.78	C
ATOM	5912	C	ASN	438	92.148	33.549	14.673	1.00100.78	C
ATOM	5913	O	ASN	438	91.486	32.843	13.911	1.00100.78	O
ATOM	5914	CB	ASN	438	92.190	32.926	17.201	1.00100.78	C
ATOM	5915	CG	ASN	438	93.712	33.010	17.344	1.00100.78	C
ATOM	5916	OD1	ASN	438	94.436	32.246	16.716	1.00100.78	O
ATOM	5917	ND2	ASN	438	94.219	33.929	18.156	1.00100.78	N
ATOM	5918	H	ASN	438	89.751	33.154	15.381	1.00 0.00	H
ATOM	5919	HA	ASN	438	91.920	34.865	16.310	1.00 0.00	H
ATOM	5920	2HB	ASN	438	91.732	33.178	18.159	1.00 0.00	H
ATOM	5921	HB3	ASN	438	91.932	31.887	17.007	1.00 0.00	H
ATOM	5922	2HD2	ASN	438	95.224	33.996	18.233	1.00 0.00	H
ATOM	5923	1HD2	ASN	438	93.627	34.553	18.684	1.00 0.00	H
ATOM	5924	N	ALA	439	93.314	34.112	14.346	1.00 63.26	N
ATOM	5925	CA	ALA	439	94.110	33.938	13.140	1.00 63.26	C
ATOM	5926	C	ALA	439	95.551	34.338	13.468	1.00 63.26	C

ATOM	5927	O	ALA	439	95.790	35.020	14.468	1.00	63.26	O
ATOM	5928	CB	ALA	439	93.555	34.775	11.982	1.00	63.26	C
ATOM	5929	H	ALA	439	93.820	34.640	15.049	1.00	0.00	H
ATOM	5930	HA	ALA	439	94.096	32.884	12.860	1.00	0.00	H
ATOM	5931	1HB	ALA	439	94.202	34.704	11.106	1.00	0.00	H
ATOM	5932	2HB	ALA	439	92.580	34.411	11.687	1.00	0.00	H
ATOM	5933	3HB	ALA	439	93.472	35.829	12.247	1.00	0.00	H
ATOM	5934	N	ALA	440	96.493	33.962	12.601	1.00	218.41	N
ATOM	5935	CA	ALA	440	97.844	34.509	12.550	1.00	218.41	C
ATOM	5936	C	ALA	440	97.792	35.910	11.914	1.00	218.41	C
ATOM	5937	O	ALA	440	97.057	36.132	10.952	1.00	218.41	O
ATOM	5938	CB	ALA	440	98.705	33.608	11.651	1.00	218.41	C
ATOM	5939	H	ALA	440	96.190	33.370	11.818	1.00	0.00	H
ATOM	5940	HA	ALA	440	98.269	34.556	13.554	1.00	0.00	H
ATOM	5941	1HB	ALA	440	99.731	33.974	11.594	1.00	0.00	H
ATOM	5942	2HB	ALA	440	98.745	32.593	12.035	1.00	0.00	H
ATOM	5943	3HB	ALA	440	98.312	33.559	10.634	1.00	0.00	H
ATOM	5944	N	SER	441	98.568	36.852	12.451	1.00	149.15	N
ATOM	5945	CA	SER	441	98.718	38.214	11.959	1.00	149.15	C
ATOM	5946	C	SER	441	100.032	38.783	12.519	1.00	149.15	C
ATOM	5947	O	SER	441	100.741	38.108	13.270	1.00	149.15	O
ATOM	5948	CB	SER	441	97.453	39.053	12.277	1.00	149.15	C
ATOM	5949	OG	SER	441	97.497	40.338	11.674	1.00	149.15	O
ATOM	5950	H	SER	441	99.199	36.615	13.207	1.00	0.00	H
ATOM	5951	HA	SER	441	98.836	38.162	10.875	1.00	0.00	H
ATOM	5952	2HB	SER	441	96.554	38.548	11.922	1.00	0.00	H
ATOM	5953	HB3	SER	441	97.344	39.169	13.357	1.00	0.00	H
ATOM	5954	HG	SER	441	96.726	40.821	11.939	1.00	0.00	H
ATOM	5955	N	VAL	442	100.349	40.031	12.165	1.00	54.01	N
ATOM	5956	CA	VAL	442	101.466	40.797	12.701	1.00	54.01	C
ATOM	5957	C	VAL	442	100.943	41.482	13.978	1.00	54.01	C
ATOM	5958	O	VAL	442	99.965	42.229	13.932	1.00	54.01	O
ATOM	5959	CB	VAL	442	101.902	41.866	11.656	1.00	54.01	C
ATOM	5960	CG1	VAL	442	103.107	42.702	12.133	1.00	54.01	C
ATOM	5961	CG2	VAL	442	102.231	41.237	10.286	1.00	54.01	C
ATOM	5962	H	VAL	442	99.617	40.545	11.687	1.00	0.00	H
ATOM	5963	HA	VAL	442	102.305	40.138	12.931	1.00	0.00	H
ATOM	5964	HB	VAL	442	101.071	42.557	11.499	1.00	0.00	H
ATOM	5965	1HG1	VAL	442	103.398	43.437	11.382	1.00	0.00	H
ATOM	5966	2HG1	VAL	442	102.885	43.256	13.046	1.00	0.00	H
ATOM	5967	3HG1	VAL	442	103.974	42.072	12.332	1.00	0.00	H
ATOM	5968	1HG2	VAL	442	102.560	41.993	9.573	1.00	0.00	H
ATOM	5969	2HG2	VAL	442	103.025	40.494	10.372	1.00	0.00	H
ATOM	5970	3HG2	VAL	442	101.364	40.744	9.844	1.00	0.00	H
ATOM	5971	N	HIS	443	101.591	41.222	15.116	1.00	207.53	N
ATOM	5972	CA	HIS	443	101.274	41.843	16.397	1.00	207.53	C
ATOM	5973	C	HIS	443	102.038	43.177	16.499	1.00	207.53	C
ATOM	5974	O	HIS	443	103.187	43.273	16.062	1.00	207.53	O
ATOM	5975	ND1	HIS	443	102.071	41.083	20.055	1.00	207.53	N
ATOM	5976	CG	HIS	443	101.323	41.323	18.916	1.00	207.53	C
ATOM	5977	CB	HIS	443	101.767	40.913	17.532	1.00	207.53	C
ATOM	5978	NE2	HIS	443	100.243	42.132	20.742	1.00	207.53	N
ATOM	5979	CD2	HIS	443	100.174	41.943	19.363	1.00	207.53	C
ATOM	5980	CE1	HIS	443	101.404	41.586	21.093	1.00	207.53	C
ATOM	5981	H	HIS	443	102.406	40.630	15.077	1.00	0.00	H
ATOM	5982	HA	HIS	443	100.197	42.004	16.480	1.00	0.00	H

ATOM	5983	HD1	HIS	443	103.021	40.644	20.161	1.00	0.00		H
ATOM	5984	2HB	HIS	443	101.402	39.898	17.370	1.00	0.00		H
ATOM	5985	HB3	HIS	443	102.857	40.848	17.526	1.00	0.00		H
ATOM	5986	HD2	HIS	443	99.310	42.276	18.807	1.00	0.00		H
ATOM	5987	HE1	HIS	443	101.783	41.559	22.107	1.00	0.00		H
ATOM	5988	N	ARG	444	101.449	44.193	17.146	1.00285.10			N
ATOM	5989	CA	ARG	444	102.115	45.439	17.542	1.00285.10			C
ATOM	5990	C	ARG	444	102.908	45.181	18.843	1.00285.10			C
ATOM	5991	O	ARG	444	102.727	45.870	19.845	1.00285.10			O
ATOM	5992	CB	ARG	444	101.042	46.560	17.673	1.00285.10			C
ATOM	5993	CG	ARG	444	101.463	47.964	18.193	1.00285.10			C
ATOM	5994	CD	ARG	444	102.804	48.525	17.675	1.00285.10			C
ATOM	5995	NE	ARG	444	103.931	48.026	18.483	1.00285.10			N
ATOM	5996	CZ	ARG	444	105.244	48.194	18.289	1.00285.10			C
ATOM	5997	NH1	ARG	444	105.691	48.999	17.322	1.00285.10			N
ATOM	5998	NH2	ARG	444	106.105	47.535	19.063	1.00285.10			N1+
ATOM	5999	H	ARG	444	100.548	44.008	17.563	1.00	0.00		H
ATOM	6000	HA	ARG	444	102.829	45.731	16.769	1.00	0.00		H
ATOM	6001	2HB	ARG	444	100.593	46.695	16.688	1.00	0.00		H
ATOM	6002	HB3	ARG	444	100.231	46.204	18.312	1.00	0.00		H
ATOM	6003	2HG	ARG	444	100.670	48.668	17.934	1.00	0.00		H
ATOM	6004	HG3	ARG	444	101.464	47.964	19.284	1.00	0.00		H
ATOM	6005	2HD	ARG	444	102.947	48.281	16.622	1.00	0.00		H
ATOM	6006	HD3	ARG	444	102.795	49.613	17.755	1.00	0.00		H
ATOM	6007	HE	ARG	444	103.618	47.412	19.247	1.00	0.00		H
ATOM	6008	2HH1	ARG	444	106.676	49.142	17.155	1.00	0.00		H
ATOM	6009	1HH1	ARG	444	105.041	49.516	16.750	1.00	0.00		H
ATOM	6010	2HH2	ARG	444	107.113	47.518	18.950	1.00	0.00		H
ATOM	6011	1HH2	ARG	444	105.789	46.860	19.777	1.00	0.00		H
ATOM	6012	N	ALA	445	103.833	44.222	18.765	1.00305.35			N
ATOM	6013	CA	ALA	445	104.624	43.594	19.815	1.00305.35			C
ATOM	6014	C	ALA	445	105.075	44.478	20.987	1.00305.35			C
ATOM	6015	O	ALA	445	105.752	45.490	20.776	1.00305.35			O
ATOM	6016	CB	ALA	445	105.806	42.865	19.161	1.00305.35			C
ATOM	6017	H	ALA	445	103.869	43.753	17.866	1.00	0.00		H
ATOM	6018	HA	ALA	445	103.970	42.835	20.234	1.00	0.00		H
ATOM	6019	1HB	ALA	445	105.458	42.062	18.511	1.00	0.00		H
ATOM	6020	2HB	ALA	445	106.425	43.542	18.573	1.00	0.00		H
ATOM	6021	3HB	ALA	445	106.443	42.408	19.916	1.00	0.00		H
ATOM	6022	N	ALA	446	104.804	44.021	22.212	1.00254.32			N
ATOM	6023	CA	ALA	446	105.511	44.401	23.432	1.00254.32			C
ATOM	6024	C	ALA	446	106.860	43.656	23.455	1.00254.32			C
ATOM	6025	O	ALA	446	107.874	44.220	23.864	1.00254.32			O
ATOM	6026	CB	ALA	446	104.679	43.962	24.646	1.00254.32			C
ATOM	6027	H	ALA	446	104.375	43.084	22.239	1.00	0.00		H
ATOM	6028	HA	ALA	446	105.679	45.480	23.459	1.00	0.00		H
ATOM	6029	1HB	ALA	446	105.181	44.218	25.580	1.00	0.00		H
ATOM	6030	2HB	ALA	446	103.706	44.453	24.651	1.00	0.00		H
ATOM	6031	3HB	ALA	446	104.503	42.884	24.649	1.00	0.00		H
ATOM	6032	N	GLU	447	106.890	42.453	22.859	1.00234.76			N
ATOM	6033	CA	GLU	447	108.002	41.584	22.456	1.00234.76			C
ATOM	6034	C	GLU	447	109.128	42.257	21.629	1.00234.76			C
ATOM	6035	O	GLU	447	110.038	41.579	21.162	1.00234.76			O
ATOM	6036	CB	GLU	447	107.483	40.306	21.729	1.00234.76			C
ATOM	6037	CG	GLU	447	106.136	39.692	22.190	1.00234.76			C
ATOM	6038	CD	GLU	447	104.916	40.413	21.627	1.00234.76			C

ATOM	6039	OE1	GLU	447	104.479	41.376	22.289	1.00234.76	O
ATOM	6040	OE2	GLU	447	104.489	40.115	20.493	1.00234.76	O1-
ATOM	6041	H	GLU	447	105.959	42.074	22.632	1.00 0.00	H
ATOM	6042	HA	GLU	447	108.462	41.260	23.391	1.00 0.00	H
ATOM	6043	2HB	GLU	447	107.408	40.496	20.658	1.00 0.00	H
ATOM	6044	HB3	GLU	447	108.252	39.538	21.810	1.00 0.00	H
ATOM	6045	2HG	GLU	447	106.076	38.658	21.850	1.00 0.00	H
ATOM	6046	HG3	GLU	447	106.074	39.660	23.278	1.00 0.00	H
ATOM	6047	N	SER	448	109.105	43.586	21.468	1.00200.89	N
ATOM	6048	CA	SER	448	110.129	44.402	20.819	1.00200.89	C
ATOM	6049	C	SER	448	111.432	44.455	21.651	1.00200.89	C
ATOM	6050	O	SER	448	112.498	44.768	21.114	1.00200.89	O
ATOM	6051	CB	SER	448	109.574	45.837	20.671	1.00200.89	C
ATOM	6052	OG	SER	448	108.458	45.884	19.791	1.00200.89	O
ATOM	6053	H	SER	448	108.402	44.059	22.024	1.00 0.00	H
ATOM	6054	HA	SER	448	110.363	43.983	19.838	1.00 0.00	H
ATOM	6055	2HB	SER	448	109.287	46.246	21.642	1.00 0.00	H
ATOM	6056	HB3	SER	448	110.346	46.497	20.271	1.00 0.00	H
ATOM	6057	HG	SER	448	107.767	45.342	20.163	1.00 0.00	H
ATOM	6058	N	CYS	449	111.353	44.134	22.952	1.00 81.75	N
ATOM	6059	CA	CYS	449	112.471	43.964	23.881	1.00 81.75	C
ATOM	6060	C	CYS	449	113.394	42.816	23.427	1.00 81.75	C
ATOM	6061	O	CYS	449	114.560	43.052	23.097	1.00 81.75	O
ATOM	6062	CB	CYS	449	111.921	43.755	25.314	1.00 81.75	C
ATOM	6063	SG	CYS	449	110.573	42.525	25.389	1.00 81.75	S
ATOM	6064	H	CYS	449	110.440	43.871	23.305	1.00 0.00	H
ATOM	6065	HA	CYS	449	113.064	44.880	23.875	1.00 0.00	H
ATOM	6066	2HB	CYS	449	112.719	43.454	25.995	1.00 0.00	H
ATOM	6067	HB3	CYS	449	111.531	44.699	25.697	1.00 0.00	H
ATOM	6068	HG	CYS	449	110.275	42.699	26.683	1.00 0.00	H
ATOM	6069	N	ILE	450	112.846	41.602	23.300	1.00 97.39	N
ATOM	6070	CA	ILE	450	113.488	40.407	22.755	1.00 97.39	C
ATOM	6071	C	ILE	450	113.520	40.477	21.210	1.00 97.39	C
ATOM	6072	O	ILE	450	113.133	41.483	20.611	1.00 97.39	O
ATOM	6073	CB	ILE	450	112.722	39.151	23.271	1.00 97.39	C
ATOM	6074	CG2	ILE	450	112.878	39.021	24.800	1.00 97.39	C
ATOM	6075	CG1	ILE	450	111.232	39.084	22.851	1.00 97.39	C
ATOM	6076	CD1	ILE	450	110.558	37.739	23.159	1.00 97.39	C
ATOM	6077	H	ILE	450	111.862	41.518	23.516	1.00 0.00	H
ATOM	6078	HA	ILE	450	114.522	40.368	23.104	1.00 0.00	H
ATOM	6079	HB	ILE	450	113.214	38.276	22.842	1.00 0.00	H
ATOM	6080	1HG2	ILE	450	112.522	38.056	25.161	1.00 0.00	H
ATOM	6081	2HG2	ILE	450	113.923	39.101	25.101	1.00 0.00	H
ATOM	6082	3HG2	ILE	450	112.322	39.794	25.332	1.00 0.00	H
ATOM	6083	2HG1	ILE	450	110.665	39.884	23.329	1.00 0.00	H
ATOM	6084	HG13	ILE	450	111.137	39.252	21.777	1.00 0.00	H
ATOM	6085	1HD1	ILE	450	109.543	37.715	22.760	1.00 0.00	H
ATOM	6086	2HD1	ILE	450	111.104	36.908	22.713	1.00 0.00	H
ATOM	6087	3HD1	ILE	450	110.482	37.558	24.231	1.00 0.00	H
ATOM	6088	N	LYS	451	114.062	39.451	20.556	1.00209.82	N
ATOM	6089	CA	LYS	451	114.127	39.276	19.110	1.00209.82	C
ATOM	6090	C	LYS	451	114.113	37.769	18.831	1.00209.82	C
ATOM	6091	O	LYS	451	114.550	36.992	19.679	1.00209.82	O
ATOM	6092	CB	LYS	451	115.340	40.033	18.507	1.00209.82	C
ATOM	6093	CG	LYS	451	115.025	41.468	18.015	1.00209.82	C
ATOM	6094	CD	LYS	451	116.077	42.534	18.393	1.00209.82	C

ATOM	6095	CE	LYS	451	116.158	42.875	19.896	1.00209.82	C
ATOM	6096	NZ	LYS	451	114.911	43.463	20.415	1.00209.82	N1+
ATOM	6097	H	LYS	451	114.329	38.619	21.071	1.00 0.00	H
ATOM	6098	HA	LYS	451	113.203	39.664	18.674	1.00 0.00	H
ATOM	6099	2HB	LYS	451	116.164	40.025	19.220	1.00 0.00	H
ATOM	6100	HB3	LYS	451	115.724	39.473	17.651	1.00 0.00	H
ATOM	6101	2HG	LYS	451	114.949	41.435	16.927	1.00 0.00	H
ATOM	6102	HG3	LYS	451	114.037	41.793	18.335	1.00 0.00	H
ATOM	6103	2HD	LYS	451	117.057	42.195	18.052	1.00 0.00	H
ATOM	6104	HD3	LYS	451	115.875	43.446	17.828	1.00 0.00	H
ATOM	6105	2HE	LYS	451	116.389	41.983	20.479	1.00 0.00	H
ATOM	6106	HE3	LYS	451	116.972	43.578	20.072	1.00 0.00	H
ATOM	6107	1HZ	LYS	451	114.963	43.579	21.426	1.00 0.00	H
ATOM	6108	2HZ	LYS	451	114.643	44.340	19.999	1.00 0.00	H
ATOM	6109	3HZ	LYS	451	114.138	42.803	20.297	1.00 0.00	H
ATOM	6110	N	SER	452	113.606	37.365	17.667	1.00165.89	N
ATOM	6111	CA	SER	452	113.554	35.994	17.178	1.00165.89	C
ATOM	6112	C	SER	452	113.421	36.061	15.645	1.00165.89	C
ATOM	6113	O	SER	452	113.560	37.138	15.058	1.00165.89	O
ATOM	6114	CB	SER	452	112.450	35.192	17.916	1.00165.89	C
ATOM	6115	OG	SER	452	112.492	33.814	17.588	1.00165.89	O
ATOM	6116	H	SER	452	113.336	38.045	16.968	1.00 0.00	H
ATOM	6117	HA	SER	452	114.519	35.527	17.388	1.00 0.00	H
ATOM	6118	2HB	SER	452	112.562	35.282	18.997	1.00 0.00	H
ATOM	6119	HB3	SER	452	111.464	35.588	17.664	1.00 0.00	H
ATOM	6120	HG	SER	452	111.756	33.376	17.995	1.00 0.00	H
ATOM	6121	N	THR	453	113.155	34.926	15.002	1.00256.12	N
ATOM	6122	CA	THR	453	112.886	34.774	13.579	1.00256.12	C
ATOM	6123	C	THR	453	111.940	33.573	13.377	1.00256.12	C
ATOM	6124	O	THR	453	111.436	33.004	14.348	1.00256.12	O
ATOM	6125	CB	THR	453	114.218	34.794	12.771	1.00256.12	C
ATOM	6126	OG1	THR	453	113.982	34.846	11.373	1.00256.12	O
ATOM	6127	CG2	THR	453	115.136	33.591	13.048	1.00256.12	C
ATOM	6128	H	THR	453	112.933	34.112	15.572	1.00 0.00	H
ATOM	6129	HA	THR	453	112.303	35.643	13.269	1.00 0.00	H
ATOM	6130	HB	THR	453	114.759	35.707	13.025	1.00 0.00	H
ATOM	6131	HG1	THR	453	114.801	35.037	10.939	1.00 0.00	H
ATOM	6132	1HG2	THR	453	116.078	33.675	12.507	1.00 0.00	H
ATOM	6133	2HG2	THR	453	115.377	33.517	14.109	1.00 0.00	H
ATOM	6134	3HG2	THR	453	114.667	32.651	12.753	1.00 0.00	H
ATOM	6135	N	VAL	454	111.704	33.202	12.116	1.00121.50	N
ATOM	6136	CA	VAL	454	110.932	32.040	11.681	1.00121.50	C
ATOM	6137	C	VAL	454	111.614	30.729	12.132	1.00121.50	C
ATOM	6138	O	VAL	454	112.844	30.634	12.118	1.00121.50	O
ATOM	6139	CB	VAL	454	110.764	32.105	10.135	1.00121.50	C
ATOM	6140	CG1	VAL	454	109.795	33.231	9.732	1.00121.50	C
ATOM	6141	CG2	VAL	454	112.085	32.233	9.345	1.00121.50	C
ATOM	6142	H	VAL	454	112.258	33.681	11.415	1.00 0.00	H
ATOM	6143	HA	VAL	454	109.951	32.090	12.159	1.00 0.00	H
ATOM	6144	HB	VAL	454	110.301	31.171	9.819	1.00 0.00	H
ATOM	6145	1HG1	VAL	454	109.602	33.225	8.659	1.00 0.00	H
ATOM	6146	2HG1	VAL	454	108.835	33.117	10.237	1.00 0.00	H
ATOM	6147	3HG1	VAL	454	110.189	34.214	9.994	1.00 0.00	H
ATOM	6148	1HG2	VAL	454	111.901	32.202	8.271	1.00 0.00	H
ATOM	6149	2HG2	VAL	454	112.598	33.171	9.557	1.00 0.00	H
ATOM	6150	3HG2	VAL	454	112.775	31.421	9.576	1.00 0.00	H

ATOM	6151	N	LYS	455	110.830	29.721	12.549	1.00217.01	N
ATOM	6152	CA	LYS	455	111.359	28.495	13.159	1.00217.01	C
ATOM	6153	C	LYS	455	112.163	27.653	12.149	1.00217.01	C
ATOM	6154	O	LYS	455	111.747	27.502	10.996	1.00217.01	O
ATOM	6155	CB	LYS	455	110.236	27.671	13.853	1.00217.01	C
ATOM	6156	CG	LYS	455	109.463	26.569	13.078	1.00217.01	C
ATOM	6157	CD	LYS	455	108.238	27.043	12.273	1.00217.01	C
ATOM	6158	CE	LYS	455	108.388	26.963	10.743	1.00217.01	C
ATOM	6159	NZ	LYS	455	109.271	28.015	10.223	1.00217.01	N1+
ATOM	6160	H	LYS	455	109.825	29.890	12.504	1.00 0.00	H
ATOM	6161	HA	LYS	455	112.045	28.829	13.942	1.00 0.00	H
ATOM	6162	2HB	LYS	455	110.729	27.154	14.679	1.00 0.00	H
ATOM	6163	HB3	LYS	455	109.534	28.345	14.348	1.00 0.00	H
ATOM	6164	2HG	LYS	455	110.117	25.928	12.486	1.00 0.00	H
ATOM	6165	HG3	LYS	455	109.076	25.892	13.842	1.00 0.00	H
ATOM	6166	2HD	LYS	455	107.396	26.402	12.542	1.00 0.00	H
ATOM	6167	HD3	LYS	455	107.936	28.040	12.593	1.00 0.00	H
ATOM	6168	2HE	LYS	455	108.755	25.983	10.435	1.00 0.00	H
ATOM	6169	HE3	LYS	455	107.411	27.093	10.279	1.00 0.00	H
ATOM	6170	1HZ	LYS	455	109.273	28.051	9.221	1.00 0.00	H
ATOM	6171	2HZ	LYS	455	108.937	28.934	10.589	1.00 0.00	H
ATOM	6172	3HZ	LYS	455	110.227	27.878	10.559	1.00 0.00	H
ATOM	6173	N	ILE	456	113.284	27.081	12.591	1.00152.98	N
ATOM	6174	CA	ILE	456	114.122	26.168	11.821	1.00152.98	C
ATOM	6175	C	ILE	456	113.519	24.747	11.879	1.00152.98	C
ATOM	6176	O	ILE	456	112.839	24.392	12.844	1.00152.98	O
ATOM	6177	CB	ILE	456	115.562	26.214	12.425	1.00152.98	C
ATOM	6178	CG2	ILE	456	115.633	25.818	13.918	1.00152.98	C
ATOM	6179	CG1	ILE	456	116.620	25.416	11.625	1.00152.98	C
ATOM	6180	CD1	ILE	456	116.820	25.898	10.180	1.00152.98	C
ATOM	6181	H	ILE	456	113.534	27.212	13.558	1.00 0.00	H
ATOM	6182	HA	ILE	456	114.144	26.511	10.785	1.00 0.00	H
ATOM	6183	HB	ILE	456	115.879	27.257	12.378	1.00 0.00	H
ATOM	6184	1HG2	ILE	456	116.641	25.956	14.311	1.00 0.00	H
ATOM	6185	2HG2	ILE	456	114.971	26.423	14.538	1.00 0.00	H
ATOM	6186	3HG2	ILE	456	115.366	24.772	14.075	1.00 0.00	H
ATOM	6187	2HG1	ILE	456	117.581	25.506	12.134	1.00 0.00	H
ATOM	6188	HG13	ILE	456	116.392	24.350	11.634	1.00 0.00	H
ATOM	6189	1HD1	ILE	456	117.647	25.365	9.709	1.00 0.00	H
ATOM	6190	2HD1	ILE	456	115.937	25.735	9.563	1.00 0.00	H
ATOM	6191	3HD1	ILE	456	117.060	26.962	10.149	1.00 0.00	H
ATOM	6192	N	ALA	457	113.782	23.941	10.842	1.00202.20	N
ATOM	6193	CA	ALA	457	113.465	22.517	10.722	1.00202.20	C
ATOM	6194	C	ALA	457	111.988	22.284	10.356	1.00202.20	C
ATOM	6195	O	ALA	457	111.399	23.065	9.608	1.00202.20	O
ATOM	6196	CB	ALA	457	113.998	21.693	11.919	1.00202.20	C
ATOM	6197	H	ALA	457	114.268	24.355	10.063	1.00 0.00	H
ATOM	6198	HA	ALA	457	114.022	22.182	9.847	1.00 0.00	H
ATOM	6199	1HB	ALA	457	113.951	20.623	11.719	1.00 0.00	H
ATOM	6200	2HB	ALA	457	115.041	21.933	12.126	1.00 0.00	H
ATOM	6201	3HB	ALA	457	113.430	21.881	12.832	1.00 0.00	H
ATOM	6202	N	LYS	458	111.402	21.191	10.852	1.00280.30	N
ATOM	6203	CA	LYS	458	110.015	20.799	10.670	1.00280.30	C
ATOM	6204	C	LYS	458	109.534	20.152	11.971	1.00280.30	C
ATOM	6205	O	LYS	458	110.210	19.276	12.509	1.00280.30	O
ATOM	6206	CB	LYS	458	109.854	19.923	9.401	1.00280.30	C

ATOM	6207	CG	LYS	458	108.506	19.180	9.309	1.00280.30	C
ATOM	6208	CD	LYS	458	108.163	18.664	7.904	1.00280.30	C
ATOM	6209	CE	LYS	458	106.851	17.858	7.853	1.00280.30	C
ATOM	6210	NZ	LYS	458	105.678	18.670	8.218	1.00280.30	N1+
ATOM	6211	H	LYS	458	111.918	20.632	11.519	1.00 0.00	H
ATOM	6212	HA	LYS	458	109.422	21.704	10.527	1.00 0.00	H
ATOM	6213	2HB	LYS	458	109.982	20.567	8.529	1.00 0.00	H
ATOM	6214	HB3	LYS	458	110.661	19.189	9.356	1.00 0.00	H
ATOM	6215	2HG	LYS	458	108.508	18.346	10.014	1.00 0.00	H
ATOM	6216	HG3	LYS	458	107.722	19.852	9.640	1.00 0.00	H
ATOM	6217	2HD	LYS	458	108.114	19.502	7.206	1.00 0.00	H
ATOM	6218	HD3	LYS	458	108.979	18.030	7.553	1.00 0.00	H
ATOM	6219	2HE	LYS	458	106.703	17.483	6.839	1.00 0.00	H
ATOM	6220	HE3	LYS	458	106.904	16.986	8.507	1.00 0.00	H
ATOM	6221	1HZ	LYS	458	105.591	18.806	9.220	1.00 0.00	H
ATOM	6222	2HZ	LYS	458	105.716	19.592	7.781	1.00 0.00	H
ATOM	6223	3HZ	LYS	458	104.805	18.255	7.907	1.00 0.00	H
ATOM	6224	N	VAL	459	108.356	20.560	12.443	1.00 72.84	N
ATOM	6225	CA	VAL	459	107.644	19.979	13.573	1.00 72.84	C
ATOM	6226	C	VAL	459	106.678	18.909	13.008	1.00 72.84	C
ATOM	6227	O	VAL	459	106.364	18.891	11.812	1.00 72.84	O
ATOM	6228	CB	VAL	459	106.847	21.126	14.273	1.00 72.84	C
ATOM	6229	CG1	VAL	459	106.129	20.689	15.568	1.00 72.84	C
ATOM	6230	CG2	VAL	459	107.739	22.345	14.597	1.00 72.84	C
ATOM	6231	H	VAL	459	107.850	21.274	11.920	1.00 0.00	H
ATOM	6232	HA	VAL	459	108.346	19.520	14.272	1.00 0.00	H
ATOM	6233	HB	VAL	459	106.078	21.481	13.583	1.00 0.00	H
ATOM	6234	1HG1	VAL	459	105.704	21.549	16.086	1.00 0.00	H
ATOM	6235	2HG1	VAL	459	105.293	20.019	15.374	1.00 0.00	H
ATOM	6236	3HG1	VAL	459	106.814	20.201	16.262	1.00 0.00	H
ATOM	6237	1HG2	VAL	459	107.172	23.124	15.109	1.00 0.00	H
ATOM	6238	2HG2	VAL	459	108.574	22.067	15.241	1.00 0.00	H
ATOM	6239	3HG2	VAL	459	108.152	22.808	13.701	1.00 0.00	H
ATOM	6240	N	THR	460	106.134	18.050	13.881	1.00257.66	N
ATOM	6241	CA	THR	460	105.060	17.073	13.638	1.00257.66	C
ATOM	6242	C	THR	460	103.678	17.726	13.325	1.00257.66	C
ATOM	6243	O	THR	460	102.623	17.148	13.581	1.00257.66	O
ATOM	6244	CB	THR	460	105.027	16.091	14.848	1.00257.66	C
ATOM	6245	OG1	THR	460	104.133	15.020	14.618	1.00257.66	O
ATOM	6246	CG2	THR	460	104.660	16.735	16.198	1.00257.66	C
ATOM	6247	H	THR	460	106.436	18.138	14.839	1.00 0.00	H
ATOM	6248	HA	THR	460	105.337	16.501	12.751	1.00 0.00	H
ATOM	6249	HB	THR	460	106.015	15.638	14.948	1.00 0.00	H
ATOM	6250	HG1	THR	460	103.276	15.397	14.440	1.00 0.00	H
ATOM	6251	1HG2	THR	460	104.689	15.994	16.998	1.00 0.00	H
ATOM	6252	2HG2	THR	460	105.358	17.526	16.472	1.00 0.00	H
ATOM	6253	3HG2	THR	460	103.659	17.166	16.189	1.00 0.00	H
ATOM	6254	N	MET	461	103.692	18.930	12.754	1.00256.61	N
ATOM	6255	CA	MET	461	102.591	19.664	12.150	1.00256.61	C
ATOM	6256	C	MET	461	102.646	19.327	10.649	1.00256.61	C
ATOM	6257	O	MET	461	103.743	19.167	10.102	1.00256.61	O
ATOM	6258	CB	MET	461	102.906	21.158	12.366	1.00256.61	C
ATOM	6259	CG	MET	461	102.550	21.630	13.787	1.00256.61	C
ATOM	6260	SD	MET	461	103.546	23.006	14.426	1.00256.61	S
ATOM	6261	CE	MET	461	103.173	24.353	13.274	1.00256.61	C
ATOM	6262	H	MET	461	104.614	19.231	12.456	1.00 0.00	H

ATOM	6263	HA	MET	461	101.626	19.385	12.578	1.00	0.00	H
ATOM	6264	2HB	MET	461	103.968	21.328	12.191	1.00	0.00	H
ATOM	6265	HB3	MET	461	102.385	21.777	11.637	1.00	0.00	H
ATOM	6266	2HG	MET	461	101.492	21.880	13.860	1.00	0.00	H
ATOM	6267	HG3	MET	461	102.704	20.811	14.490	1.00	0.00	H
ATOM	6268	1HE	MET	461	103.768	25.232	13.525	1.00	0.00	H
ATOM	6269	2HE	MET	461	103.401	24.074	12.246	1.00	0.00	H
ATOM	6270	3HE	MET	461	102.125	24.636	13.339	1.00	0.00	H
ATOM	6271	N	SER	462	101.485	19.123	10.011	1.00	158.04	N
ATOM	6272	CA	SER	462	101.296	18.530	8.684	1.00	158.04	C
ATOM	6273	C	SER	462	102.212	19.123	7.591	1.00	158.04	C
ATOM	6274	O	SER	462	103.096	18.424	7.080	1.00	158.04	O
ATOM	6275	CB	SER	462	99.784	18.447	8.344	1.00	158.04	C
ATOM	6276	OG	SER	462	99.251	19.516	7.584	1.00	158.04	O
ATOM	6277	H	SER	462	100.632	19.344	10.526	1.00	0.00	H
ATOM	6278	HA	SER	462	101.623	17.497	8.816	1.00	0.00	H
ATOM	6279	2HB	SER	462	99.592	17.519	7.808	1.00	0.00	H
ATOM	6280	HB3	SER	462	99.192	18.381	9.251	1.00	0.00	H
ATOM	6281	HG	SER	462	99.498	20.346	8.040	1.00	0.00	H
ATOM	6282	N	VAL	463	102.091	20.429	7.322	1.00	55.82	N
ATOM	6283	CA	VAL	463	103.023	21.220	6.527	1.00	55.82	C
ATOM	6284	C	VAL	463	104.209	21.555	7.449	1.00	55.82	C
ATOM	6285	O	VAL	463	105.337	21.148	7.161	1.00	55.82	O
ATOM	6286	CB	VAL	463	102.337	22.524	6.015	1.00	55.82	C
ATOM	6287	CG1	VAL	463	103.268	23.371	5.124	1.00	55.82	C
ATOM	6288	CG2	VAL	463	101.023	22.246	5.263	1.00	55.82	C
ATOM	6289	H	VAL	463	101.378	20.956	7.851	1.00	0.00	H
ATOM	6290	HA	VAL	463	103.377	20.634	5.677	1.00	0.00	H
ATOM	6291	HB	VAL	463	102.073	23.146	6.872	1.00	0.00	H
ATOM	6292	1HG1	VAL	463	102.766	24.274	4.777	1.00	0.00	H
ATOM	6293	2HG1	VAL	463	104.159	23.698	5.662	1.00	0.00	H
ATOM	6294	3HG1	VAL	463	103.597	22.815	4.246	1.00	0.00	H
ATOM	6295	1HG2	VAL	463	100.585	23.172	4.889	1.00	0.00	H
ATOM	6296	2HG2	VAL	463	101.183	21.583	4.414	1.00	0.00	H
ATOM	6297	3HG2	VAL	463	100.280	21.796	5.922	1.00	0.00	H
ATOM	6298	N	SER	464	103.923	22.187	8.592	1.00	188.28	N
ATOM	6299	CA	SER	464	104.813	22.802	9.565	1.00	188.28	C
ATOM	6300	C	SER	464	104.905	24.304	9.299	1.00	188.28	C
ATOM	6301	O	SER	464	105.998	24.833	9.085	1.00	188.28	O
ATOM	6302	CB	SER	464	106.128	22.035	9.831	1.00	188.28	C
ATOM	6303	OG	SER	464	106.845	22.520	10.951	1.00	188.28	O
ATOM	6304	H	SER	464	102.936	22.436	8.756	1.00	0.00	H
ATOM	6305	HA	SER	464	104.254	22.743	10.495	1.00	0.00	H
ATOM	6306	2HB	SER	464	105.890	20.990	10.020	1.00	0.00	H
ATOM	6307	HB3	SER	464	106.791	22.087	8.967	1.00	0.00	H
ATOM	6308	HG	SER	464	106.992	23.451	10.807	1.00	0.00	H
ATOM	6309	N	THR	465	103.741	24.972	9.312	1.00	269.41	N
ATOM	6310	CA	THR	465	103.574	26.426	9.309	1.00	269.41	C
ATOM	6311	C	THR	465	104.454	27.130	10.363	1.00	269.41	C
ATOM	6312	O	THR	465	104.833	26.535	11.375	1.00	269.41	O
ATOM	6313	CB	THR	465	102.064	26.774	9.449	1.00	269.41	C
ATOM	6314	OG1	THR	465	101.814	28.159	9.273	1.00	269.41	O
ATOM	6315	CG2	THR	465	101.453	26.387	10.802	1.00	269.41	C
ATOM	6316	H	THR	465	102.891	24.415	9.447	1.00	0.00	H
ATOM	6317	HA	THR	465	103.911	26.765	8.328	1.00	0.00	H
ATOM	6318	HB	THR	465	101.519	26.252	8.661	1.00	0.00	H

ATOM	6319	HG1 THR	465	102.068	28.626	10.069	1.00	0.00		H
ATOM	6320	1HG2 THR	465	100.388	26.600	10.825	1.00	0.00		H
ATOM	6321	2HG2 THR	465	101.579	25.324	10.982	1.00	0.00		H
ATOM	6322	3HG2 THR	465	101.913	26.916	11.637	1.00	0.00		H
ATOM	6323	N ASP	466	104.740	28.416	10.139	1.00231.32			N
ATOM	6324	CA ASP	466	105.233	29.304	11.189	1.00231.32			C
ATOM	6325	C ASP	466	104.048	29.885	11.978	1.00231.32			C
ATOM	6326	O ASP	466	102.894	29.569	11.671	1.00231.32			O
ATOM	6327	CB ASP	466	106.089	30.433	10.573	1.00231.32			C
ATOM	6328	CG ASP	466	107.275	30.690	11.485	1.00231.32			C
ATOM	6329	OD1 ASP	466	107.032	31.195	12.595	1.00231.32			O
ATOM	6330	OD2 ASP	466	108.367	30.186	11.141	1.00231.32			O1-
ATOM	6331	H ASP	466	104.295	28.854	9.345	1.00	0.00		H
ATOM	6332	HA ASP	466	105.829	28.721	11.895	1.00	0.00		H
ATOM	6333	2HB ASP	466	106.471	30.154	9.591	1.00	0.00		H
ATOM	6334	HB3 ASP	466	105.529	31.359	10.435	1.00	0.00		H
ATOM	6335	N THR	467	104.372	30.705	12.985	1.00259.50			N
ATOM	6336	CA THR	467	103.622	31.183	14.150	1.00259.50			C
ATOM	6337	C THR	467	102.110	30.846	14.205	1.00259.50			C
ATOM	6338	O THR	467	101.231	31.680	13.978	1.00259.50			O
ATOM	6339	CB THR	467	104.090	32.622	14.502	1.00259.50			C
ATOM	6340	OG1 THR	467	103.635	33.011	15.784	1.00259.50			O
ATOM	6341	CG2 THR	467	103.672	33.694	13.483	1.00259.50			C
ATOM	6342	H THR	467	105.374	30.949	13.000	1.00	0.00		H
ATOM	6343	HA THR	467	104.039	30.580	14.958	1.00	0.00		H
ATOM	6344	HB THR	467	105.182	32.617	14.553	1.00	0.00		H
ATOM	6345	HG1 THR	467	103.990	33.865	15.987	1.00	0.00		H
ATOM	6346	1HG2 THR	467	104.101	34.665	13.731	1.00	0.00		H
ATOM	6347	2HG2 THR	467	104.016	33.435	12.482	1.00	0.00		H
ATOM	6348	3HG2 THR	467	102.589	33.815	13.439	1.00	0.00		H
ATOM	6349	N SER	468	101.812	29.565	14.460	1.00245.92			N
ATOM	6350	CA SER	468	100.497	28.959	14.576	1.00245.92			C
ATOM	6351	C SER	468	100.679	27.495	14.981	1.00245.92			C
ATOM	6352	O SER	468	101.660	26.865	14.592	1.00245.92			O
ATOM	6353	CB SER	468	99.717	29.057	13.243	1.00245.92			C
ATOM	6354	OG SER	468	99.041	30.300	13.198	1.00245.92			O
ATOM	6355	H SER	468	102.580	28.910	14.527	1.00	0.00		H
ATOM	6356	HA SER	468	99.953	29.462	15.377	1.00	0.00		H
ATOM	6357	2HB SER	468	100.383	28.953	12.384	1.00	0.00		H
ATOM	6358	HB3 SER	468	98.976	28.260	13.158	1.00	0.00		H
ATOM	6359	HG SER	468	99.734	30.959	13.343	1.00	0.00		H
ATOM	6360	N ALA	469	99.714	26.941	15.724	1.00234.85			N
ATOM	6361	CA ALA	469	99.586	25.506	15.937	1.00234.85			C
ATOM	6362	C ALA	469	98.740	24.971	14.774	1.00234.85			C
ATOM	6363	O ALA	469	97.595	25.402	14.599	1.00234.85			O
ATOM	6364	CB ALA	469	98.820	25.267	17.250	1.00234.85			C
ATOM	6365	H ALA	469	98.928	27.510	15.992	1.00	0.00		H
ATOM	6366	HA ALA	469	100.561	25.016	15.979	1.00	0.00		H
ATOM	6367	1HB ALA	469	98.674	24.199	17.423	1.00	0.00		H
ATOM	6368	2HB ALA	469	99.377	25.659	18.102	1.00	0.00		H
ATOM	6369	3HB ALA	469	97.836	25.737	17.250	1.00	0.00		H
ATOM	6370	N GLU	470	99.321	24.066	13.982	1.00292.95			N
ATOM	6371	CA GLU	470	98.687	23.373	12.862	1.00292.95			C
ATOM	6372	C GLU	470	98.079	22.054	13.379	1.00292.95			C
ATOM	6373	O GLU	470	98.201	21.701	14.553	1.00292.95			O
ATOM	6374	CB GLU	470	99.785	23.018	11.825	1.00292.95			C

ATOM	6375	CG	GLU	470	99.365	23.195	10.354	1.00292.95	C
ATOM	6376	CD	GLU	470	100.428	22.660	9.405	1.00292.95	C
ATOM	6377	OE1	GLU	470	101.572	23.162	9.436	1.00292.95	O
ATOM	6378	OE2	GLU	470	100.120	21.701	8.666	1.00292.95	O1-
ATOM	6379	H	GLU	470	100.253	23.773	14.230	1.00 0.00	H
ATOM	6380	HA	GLU	470	97.909	23.997	12.419	1.00 0.00	H
ATOM	6381	2HB	GLU	470	100.664	23.634	11.986	1.00 0.00	H
ATOM	6382	HB3	GLU	470	100.138	21.995	11.966	1.00 0.00	H
ATOM	6383	2HG	GLU	470	98.426	22.682	10.152	1.00 0.00	H
ATOM	6384	HG3	GLU	470	99.205	24.249	10.130	1.00 0.00	H
ATOM	6385	N	ALA	471	97.450	21.303	12.473	1.00211.96	N
ATOM	6386	CA	ALA	471	97.099	19.900	12.673	1.00211.96	C
ATOM	6387	C	ALA	471	98.247	19.027	12.136	1.00211.96	C
ATOM	6388	O	ALA	471	99.166	19.532	11.489	1.00211.96	O
ATOM	6389	CB	ALA	471	95.845	19.606	11.830	1.00211.96	C
ATOM	6390	H	ALA	471	97.569	21.601	11.517	1.00 0.00	H
ATOM	6391	HA	ALA	471	96.922	19.672	13.726	1.00 0.00	H
ATOM	6392	1HB	ALA	471	95.524	18.569	11.948	1.00 0.00	H
ATOM	6393	2HB	ALA	471	95.013	20.240	12.133	1.00 0.00	H
ATOM	6394	3HB	ALA	471	96.028	19.771	10.767	1.00 0.00	H
ATOM	6395	N	LEU	472	98.161	17.715	12.363	1.00126.96	N
ATOM	6396	CA	LEU	472	98.900	16.688	11.645	1.00126.96	C
ATOM	6397	C	LEU	472	97.823	16.078	10.743	1.00126.96	C
ATOM	6398	O	LEU	472	96.832	15.534	11.290	1.00126.96	O
ATOM	6399	CB	LEU	472	99.469	15.670	12.664	1.00126.96	C
ATOM	6400	CG	LEU	472	100.372	14.534	12.116	1.00126.96	C
ATOM	6401	CD1	LEU	472	99.575	13.313	11.630	1.00126.96	C
ATOM	6402	CD2	LEU	472	101.395	15.004	11.066	1.00126.96	C
ATOM	6403	OXT	LEU	472	97.867	16.275	9.508	1.00126.96	O1-
ATOM	6404	H	LEU	472	97.325	17.355	12.797	1.00 0.00	H
ATOM	6405	HA	LEU	472	99.704	17.111	11.047	1.00 0.00	H
ATOM	6406	2HB	LEU	472	100.068	16.237	13.379	1.00 0.00	H
ATOM	6407	HB3	LEU	472	98.661	15.236	13.255	1.00 0.00	H
ATOM	6408	HG	LEU	472	100.953	14.182	12.970	1.00 0.00	H
ATOM	6409	1HD1	LEU	472	100.242	12.497	11.350	1.00 0.00	H
ATOM	6410	2HD1	LEU	472	98.914	12.940	12.412	1.00 0.00	H
ATOM	6411	3HD1	LEU	472	98.959	13.544	10.764	1.00 0.00	H
ATOM	6412	1HD2	LEU	472	102.096	14.206	10.822	1.00 0.00	H
ATOM	6413	2HD2	LEU	472	100.914	15.314	10.141	1.00 0.00	H
ATOM	6414	3HD2	LEU	472	101.978	15.848	11.432	1.00 0.00	H
TER	6415		LEU	472					
HETATM	6416	C1	UNK	1	66.319	7.523	-16.192	1.00 0.00	C
HETATM	6417	C2	UNK	1	66.896	6.240	-16.295	1.00 0.00	C
HETATM	6418	C3	UNK	1	68.186	5.994	-15.787	1.00 0.00	C
HETATM	6419	C4	UNK	1	68.918	7.035	-15.185	1.00 0.00	C
HETATM	6420	C5	UNK	1	68.346	8.317	-15.075	1.00 0.00	C
HETATM	6421	C6	UNK	1	67.052	8.559	-15.576	1.00 0.00	C
HETATM	6422	CL1	UNK	1	70.512	6.738	-14.596	1.00 0.00	Cl
HETATM	6423	H1	UNK	1	66.341	5.443	-16.773	1.00 0.00	H
HETATM	6424	H2	UNK	1	68.619	5.009	-15.876	1.00 0.00	H
HETATM	6425	H3	UNK	1	68.901	9.120	-14.614	1.00 0.00	H
HETATM	6426	H4	UNK	1	66.623	9.546	-15.497	1.00 0.00	H
HETATM	6427	C1	UNK	2	64.993	7.762	-16.749	1.00 0.00	C
HETATM	6428	C2	UNK	2	64.645	7.736	-18.073	1.00 0.00	C
HETATM	6429	C3	UNK	2	63.246	8.016	-18.044	1.00 0.00	C
HETATM	6430	N1	UNK	2	62.806	8.241	-16.813	1.00 0.00	N

HETATM 6431	N2	UNK	2	63.862	8.061	-15.984	1.00	0.00	N
HETATM 6432	C4	UNK	2	63.622	8.583	-11.735	1.00	0.00	C
HETATM 6433	C5	UNK	2	62.755	9.299	-12.571	1.00	0.00	C
HETATM 6434	C6	UNK	2	62.782	9.109	-13.964	1.00	0.00	C
HETATM 6435	C7	UNK	2	63.710	8.204	-14.561	1.00	0.00	C
HETATM 6436	C8	UNK	2	64.518	7.431	-13.688	1.00	0.00	C
HETATM 6437	C9	UNK	2	64.489	7.626	-12.292	1.00	0.00	C
HETATM 6438	CL1	UNK	2	63.612	8.891	-10.040	1.00	0.00	Cl
HETATM 6439	CL2	UNK	2	61.644	10.040	-14.860	1.00	0.00	Cl
HETATM 6440	C10	UNK	2	62.403	8.075	-19.289	1.00	0.00	C
HETATM 6441	C11	UNK	2	65.538	7.471	-19.262	1.00	0.00	C
HETATM 6442	N3	UNK	2	62.523	7.016	-20.106	1.00	0.00	N
HETATM 6443	O1	UNK	2	61.569	8.979	-19.425	1.00	0.00	O
HETATM 6444	H1	UNK	2	62.066	10.015	-12.143	1.00	0.00	H
HETATM 6445	H2	UNK	2	65.182	6.681	-14.083	1.00	0.00	H
HETATM 6446	H3	UNK	2	65.139	7.047	-11.652	1.00	0.00	H
HETATM 6447	H4	UNK	2	65.477	6.433	-19.586	1.00	0.00	H
HETATM 6448	H5	UNK	2	65.275	8.090	-20.121	1.00	0.00	H
HETATM 6449	H6	UNK	2	66.587	7.673	-19.043	1.00	0.00	H
HETATM 6450	H7	UNK	2	62.902	6.201	-19.616	1.00	0.00	H
HETATM 6451	C1	UNK	3	61.078	7.442	-23.583	1.00	0.00	C
HETATM 6452	C2	UNK	3	61.832	7.826	-22.299	1.00	0.00	C
HETATM 6453	N1	UNK	3	61.750	6.775	-21.263	1.00	0.00	N
HETATM 6454	C3	UNK	3	60.372	6.361	-20.946	1.00	0.00	C
HETATM 6455	C4	UNK	3	59.601	5.925	-22.197	1.00	0.00	C
HETATM 6456	C5	UNK	3	59.631	7.023	-23.273	1.00	0.00	C
HETATM 6457	H1	UNK	3	61.600	6.633	-24.090	1.00	0.00	H
HETATM 6458	H2	UNK	3	61.087	8.282	-24.279	1.00	0.00	H
HETATM 6459	H3	UNK	3	61.411	8.755	-21.914	1.00	0.00	H
HETATM 6460	H4	UNK	3	62.879	8.023	-22.531	1.00	0.00	H
HETATM 6461	H5	UNK	3	60.400	5.538	-20.228	1.00	0.00	H
HETATM 6462	H6	UNK	3	59.847	7.187	-20.467	1.00	0.00	H
HETATM 6463	H7	UNK	3	60.051	5.012	-22.577	1.00	0.00	H
HETATM 6464	H8	UNK	3	58.572	5.678	-21.935	1.00	0.00	H
HETATM 6465	H9	UNK	3	59.068	7.890	-22.925	1.00	0.00	H
HETATM 6466	H10	UNK	3	59.137	6.676	-24.182	1.00	0.00	H

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