

ATOM	56	N	VAL A	14	-43.325	-7.170	73.799
ATOM	57	CA	VAL A	14	-42.773	-6.939	75.118
ATOM	58	C	VAL A	14	-41.791	-5.758	75.081
ATOM	59	O	VAL A	14	-40.992	-5.650	74.158
ATOM	60	CB	VAL A	14	-42.092	-8.232	75.633
ATOM	61	CG1	VAL A	14	-41.627	-8.061	77.038
ATOM	62	CG2	VAL A	14	-43.063	-9.424	75.525
ATOM	63	H	VAL A	14	-42.654	-7.395	72.970
ATOM	64	N	ALA A	15	-41.841	-4.911	76.108
ATOM	65	CA	ALA A	15	-40.997	-3.719	76.232
ATOM	66	C	ALA A	15	-40.273	-3.720	77.592
ATOM	67	O	ALA A	15	-40.935	-3.812	78.628
ATOM	68	CB	ALA A	15	-41.884	-2.473	76.172
ATOM	77	N	VAL A	16	-38.938	-3.705	77.616
ATOM	78	CA	VAL A	16	-38.227	-3.664	78.903
ATOM	79	C	VAL A	16	-37.257	-2.480	79.061
ATOM	80	O	VAL A	16	-36.207	-2.487	78.403
ATOM	81	CB	VAL A	16	-37.354	-4.902	79.191
ATOM	82	CG1	VAL A	16	-37.033	-4.921	80.684
ATOM	83	CG2	VAL A	16	-37.986	-6.223	78.712
ATOM	84	H	VAL A	16	-38.375	-3.722	76.682
ATOM	85	N	LEU A	17	-37.590	-1.497	79.922
ATOM	86	CA	LEU A	17	-36.723	-0.335	80.192
ATOM	87	C	LEU A	17	-35.760	-0.576	81.399
ATOM	88	O	LEU A	17	-35.747	-1.639	82.004
ATOM	89	CB	LEU A	17	-37.531	0.952	80.462
ATOM	90	CG	LEU A	17	-38.673	1.468	79.583
ATOM	91	CD1	LEU A	17	-39.064	2.831	80.060
ATOM	92	CD2	LEU A	17	-38.249	1.538	78.149
ATOM	93	H	LEU A	17	-38.547	-1.563	80.441
ATOM	94	N	ASP A	18	-35.030	0.467	81.794
ATOM	95	CA	ASP A	18	-34.039	0.393	82.874
ATOM	96	C	ASP A	18	-34.137	1.615	83.817
ATOM	97	O	ASP A	18	-33.764	2.727	83.423
ATOM	98	CB	ASP A	18	-32.655	0.375	82.208
ATOM	99	CG	ASP A	18	-31.537	0.014	83.152
ATOM	100	OD1	ASP A	18	-31.589	0.394	84.335
ATOM	101	OD2	ASP A	18	-30.577	-0.652	82.694
ATOM	102	H	ASP A	18	-35.176	1.422	81.289
ATOM	103	N	ALA A	19	-34.562	1.404	85.067
ATOM	104	CA	ALA A	19	-34.677	2.509	86.026
ATOM	105	C	ALA A	19	-33.360	3.109	86.519
ATOM	106	O	ALA A	19	-33.350	4.234	87.060
ATOM	107	CB	ALA A	19	-35.531	2.114	87.213
ATOM	108	H	ALA A	19	-34.829	0.394	85.379
ATOM	109	N	VAL A	20	-32.256	2.375	86.361
ATOM	110	CA	VAL A	20	-30.939	2.870	86.797
ATOM	111	C	VAL A	20	-30.148	3.619	85.713
ATOM	112	O	VAL A	20	-29.432	4.567	86.004
ATOM	113	CB	VAL A	20	-30.073	1.724	87.359
ATOM	114	CG1	VAL A	20	-28.756	2.262	87.881
ATOM	115	CG2	VAL A	20	-30.816	1.013	88.469
ATOM	116	H	VAL A	20	-32.331	1.391	85.900
ATOM	117	N	ARG A	21	-30.346	3.229	84.459
ATOM	118	CA	ARG A	21	-29.640	3.822	83.327
ATOM	119	C	ARG A	21	-30.526	4.673	82.427
ATOM	120	O	ARG A	21	-30.023	5.329	81.522
ATOM	121	CB	ARG A	21	-28.999	2.701	82.500
ATOM	122	CG	ARG A	21	-27.493	2.800	82.368
ATOM	123	CD	ARG A	21	-26.867	1.431	82.218
ATOM	124	NE	ARG A	21	-27.472	0.645	81.150
ATOM	125	CZ	ARG A	21	-26.819	-0.263	80.430
ATOM	126	NH1	ARG A	21	-25.532	-0.495	80.656

ATOM	127	NH2	ARG	A	21	-27.457	-0.965	79.499
ATOM	128	H	ARG	A	21	-31.064	2.432	84.267
ATOM	129	HE	ARG	A	21	-28.526	0.812	80.928
ATOM	130	HH1	ARG	A	21	-25.176	-1.266	79.972
ATOM	131	HH1	ARG	A	21	-24.924	0.007	81.409
ATOM	132	HH2	ARG	A	21	-26.760	-1.652	79.020
ATOM	133	HH2	ARG	A	21	-28.515	-0.867	79.252
ATOM	134	N	GLY	A	22	-31.837	4.567	82.609
ATOM	135	CA	GLY	A	22	-32.784	5.347	81.832
ATOM	136	C	GLY	A	22	-32.518	5.149	80.372
ATOM	137	O	GLY	A	22	-32.318	6.095	79.603
ATOM	138	H	GLY	A	22	-32.212	3.874	83.363
ATOM	139	N	SER	A	23	-32.552	3.886	79.995
ATOM	140	CA	SER	A	23	-32.288	3.478	78.640
ATOM	141	C	SER	A	23	-33.076	2.192	78.396
ATOM	142	O	SER	A	23	-33.664	1.640	79.329
ATOM	143	CB	SER	A	23	-30.790	3.178	78.524
ATOM	144	OG	SER	A	23	-30.440	2.121	79.417
ATOM	145	H	SER	A	23	-32.789	3.123	80.736
ATOM	146	HG	SER	A	23	-29.373	1.911	79.331
ATOM	147	N	PRO	A	24	-33.309	1.782	77.141
ATOM	148	CA	PRO	A	24	-33.944	0.506	76.887
ATOM	149	C	PRO	A	24	-33.040	-0.576	77.432
ATOM	150	O	PRO	A	24	-31.817	-0.314	77.645
ATOM	151	CB	PRO	A	24	-34.124	0.496	75.385
ATOM	152	CG	PRO	A	24	-33.569	1.803	74.834
ATOM	153	CD	PRO	A	24	-32.983	2.590	75.964
ATOM	154	N	ALA	A	25	-33.595	-1.764	77.685
ATOM	155	CA	ALA	A	25	-32.780	-2.849	78.217
ATOM	156	C	ALA	A	25	-32.594	-3.865	77.112
ATOM	157	O	ALA	A	25	-33.507	-4.617	76.803
ATOM	158	CB	ALA	A	25	-33.426	-3.482	79.416
ATOM	159	H	ALA	A	25	-34.657	-1.921	77.496
ATOM	160	N	VAL	A	26	-31.411	-3.875	76.502
ATOM	161	CA	VAL	A	26	-31.144	-4.796	75.403
ATOM	162	C	VAL	A	26	-30.388	-6.096	75.722
ATOM	163	O	VAL	A	26	-29.353	-6.119	76.430
ATOM	164	CB	VAL	A	26	-30.535	-4.061	74.172
ATOM	165	CG1	VAL	A	26	-30.995	-2.616	74.150
ATOM	166	CG2	VAL	A	26	-29.031	-4.163	74.154
ATOM	167	H	VAL	A	26	-30.632	-3.187	76.828
ATOM	168	N	ASP	A	27	-30.912	-7.161	75.121
ATOM	169	CA	ASP	A	27	-30.429	-8.520	75.255
ATOM	170	C	ASP	A	27	-30.991	-9.188	76.495
ATOM	171	O	ASP	A	27	-30.362	-10.031	77.113
ATOM	172	CB	ASP	A	27	-28.901	-8.605	75.191
ATOM	173	CG	ASP	A	27	-28.342	-8.096	73.869
ATOM	174	OD1	ASP	A	27	-29.133	-7.868	72.913
ATOM	175	OD2	ASP	A	27	-27.104	-7.892	73.797
ATOM	176	H	ASP	A	27	-31.775	-6.998	74.476
ATOM	177	N	VAL	A	28	-32.216	-8.812	76.825
ATOM	178	CA	VAL	A	28	-32.921	-9.391	77.943
ATOM	179	C	VAL	A	28	-33.679	-10.580	77.345
ATOM	180	O	VAL	A	28	-34.663	-10.415	76.607
ATOM	181	CB	VAL	A	28	-33.875	-8.374	78.582
ATOM	182	CG1	VAL	A	28	-34.567	-8.949	79.770
ATOM	183	CG2	VAL	A	28	-33.090	-7.158	79.011
ATOM	184	H	VAL	A	28	-32.708	-8.040	76.233
ATOM	185	N	ALA	A	29	-33.110	-11.763	77.542
ATOM	186	CA	ALA	A	29	-33.696	-13.009	77.056
ATOM	187	C	ALA	A	29	-35.119	-13.129	77.566
ATOM	188	O	ALA	A	29	-35.399	-12.901	78.757
ATOM	189	CB	ALA	A	29	-32.873	-14.203	77.535

ATOM	190	H	ALA A	29	-32.167	-11.806	78.088
ATOM	191	N	VAL A	30	-36.013	-13.480	76.659
ATOM	192	CA	VAL A	30	-37.412	-13.627	76.993
ATOM	193	C	VAL A	30	-37.897	-14.973	76.491
ATOM	194	O	VAL A	30	-37.553	-15.402	75.382
ATOM	195	CB	VAL A	30	-38.262	-12.508	76.372
ATOM	196	CG1	VAL A	30	-39.746	-12.741	76.646
ATOM	197	CG2	VAL A	30	-37.819	-11.157	76.923
ATOM	198	H	VAL A	30	-35.688	-13.663	75.635
ATOM	199	N	LYS A	31	-38.653	-15.644	77.356
ATOM	200	CA	LYS A	31	-39.234	-16.944	77.078
ATOM	201	C	LYS A	31	-40.713	-16.850	77.422
ATOM	202	O	LYS A	31	-41.060	-16.309	78.474
ATOM	203	CB	LYS A	31	-38.597	-18.004	77.982
ATOM	204	CG	LYS A	31	-37.122	-18.251	77.748
ATOM	205	CD	LYS A	31	-36.466	-18.864	78.984
ATOM	206	CE	LYS A	31	-35.165	-19.578	78.616
ATOM	207	NZ	LYS A	31	-34.362	-20.023	79.801
ATOM	208	H	LYS A	31	-38.846	-15.192	78.329
ATOM	209	HZ1	LYS A	31	-33.455	-20.521	79.458
ATOM	210	HZ2	LYS A	31	-34.952	-20.716	80.400
ATOM	211	HZ3	LYS A	31	-34.094	-19.156	80.404
ATOM	212	N	VAL A	32	-41.582	-17.334	76.536
ATOM	213	CA	VAL A	32	-43.019	-17.323	76.810
ATOM	214	C	VAL A	32	-43.525	-18.756	76.794
ATOM	215	O	VAL A	32	-43.387	-19.450	75.790
ATOM	216	CB	VAL A	32	-43.861	-16.540	75.751
ATOM	217	CG1	VAL A	32	-45.323	-16.543	76.159
ATOM	218	CG2	VAL A	32	-43.364	-15.102	75.584
ATOM	219	H	VAL A	32	-41.218	-17.743	75.594
ATOM	220	N	PHE A	33	-44.129	-19.189	77.893
ATOM	221	CA	PHE A	33	-44.694	-20.537	77.952
ATOM	222	C	PHE A	33	-46.231	-20.518	77.779
ATOM	223	O	PHE A	33	-46.863	-19.454	77.716
ATOM	224	CB	PHE A	33	-44.255	-21.244	79.248
ATOM	225	CG	PHE A	33	-42.747	-21.367	79.386
ATOM	226	CD1	PHE A	33	-41.982	-20.291	79.847
ATOM	227	CD2	PHE A	33	-42.088	-22.538	79.001
ATOM	228	CE1	PHE A	33	-40.595	-20.382	79.910
ATOM	229	CE2	PHE A	33	-40.706	-22.638	79.064
ATOM	230	CZ	PHE A	33	-39.961	-21.559	79.516
ATOM	231	H	PHE A	33	-44.206	-18.534	78.760
ATOM	232	N	LYS A	34	-46.833	-21.691	77.677
ATOM	233	CA	LYS A	34	-48.275	-21.778	77.507
ATOM	234	C	LYS A	34	-48.784	-22.959	78.319
ATOM	235	O	LYS A	34	-48.202	-24.044	78.259
ATOM	236	CB	LYS A	34	-48.616	-21.964	76.030
ATOM	237	CG	LYS A	34	-50.083	-21.816	75.718
ATOM	238	CD	LYS A	34	-50.256	-21.423	74.276
ATOM	239	CE	LYS A	34	-51.711	-21.275	73.905
ATOM	240	NZ	LYS A	34	-51.809	-21.321	72.425
ATOM	241	H	LYS A	34	-46.240	-22.605	77.721
ATOM	242	HZ1	LYS A	34	-52.852	-21.217	72.126
ATOM	243	HZ2	LYS A	34	-51.422	-22.274	72.064
ATOM	244	HZ3	LYS A	34	-51.225	-20.506	71.997
ATOM	245	N	LYS A	35	-49.817	-22.731	79.129
ATOM	246	CA	LYS A	35	-50.381	-23.800	79.947
ATOM	247	C	LYS A	35	-50.884	-24.941	79.059
ATOM	248	O	LYS A	35	-51.215	-24.754	77.884
ATOM	249	CB	LYS A	35	-51.510	-23.291	80.838
ATOM	250	CG	LYS A	35	-51.701	-24.147	82.070
ATOM	251	CD	LYS A	35	-52.863	-23.715	82.952
ATOM	252	CE	LYS A	35	-52.827	-24.520	84.259

ATOM	253	NZ	LYS	A	35	-54.079	-24.500	85.090
ATOM	254	H	LYS	A	35	-50.246	-21.730	79.182
ATOM	255	HZ1	LYS	A	35	-53.931	-25.103	85.985
ATOM	256	HZ2	LYS	A	35	-54.907	-24.908	84.510
ATOM	257	HZ3	LYS	A	35	-54.307	-23.473	85.377
ATOM	258	N	THR	A	36	-50.975	-26.127	79.632
ATOM	259	CA	THR	A	36	-51.398	-27.250	78.834
ATOM	260	C	THR	A	36	-52.749	-27.816	79.241
ATOM	261	O	THR	A	36	-53.311	-27.447	80.280
ATOM	262	CB	THR	A	36	-50.317	-28.359	78.825
ATOM	263	OG1	THR	A	36	-49.010	-27.758	78.812
ATOM	264	CG2	THR	A	36	-50.465	-29.232	77.581
ATOM	265	H	THR	A	36	-50.736	-26.254	80.688
ATOM	266	HG1	THR	A	36	-48.251	-28.540	78.806
ATOM	267	N	ALA	A	37	-53.278	-28.678	78.373
ATOM	268	CA	ALA	A	37	-54.542	-29.347	78.596
ATOM	269	C	ALA	A	37	-54.414	-30.196	79.854
ATOM	270	O	ALA	A	37	-55.412	-30.578	80.452
ATOM	271	CB	ALA	A	37	-54.877	-30.214	77.406
ATOM	272	H	ALA	A	37	-52.735	-28.887	77.451
ATOM	273	N	ASP	A	38	-53.176	-30.476	80.256
ATOM	274	CA	ASP	A	38	-52.914	-31.258	81.459
ATOM	275	C	ASP	A	38	-52.518	-30.299	82.575
ATOM	276	O	ASP	A	38	-52.042	-30.729	83.628
ATOM	277	CB	ASP	A	38	-51.752	-32.230	81.223
ATOM	278	CG	ASP	A	38	-51.720	-32.766	79.810
ATOM	279	OD1	ASP	A	38	-51.122	-32.097	78.933
ATOM	280	OD2	ASP	A	38	-52.301	-33.850	79.580
ATOM	281	H	ASP	A	38	-52.334	-30.108	79.670
ATOM	282	N	GLY	A	39	-52.688	-29.002	82.324
ATOM	283	CA	GLY	A	39	-52.310	-27.980	83.289
ATOM	284	C	GLY	A	39	-50.799	-27.825	83.306
ATOM	285	O	GLY	A	39	-50.232	-27.080	84.109
ATOM	286	H	GLY	A	39	-53.123	-28.698	81.372
ATOM	287	N	SER	A	40	-50.154	-28.574	82.415
ATOM	288	CA	SER	A	40	-48.704	-28.587	82.249
ATOM	289	C	SER	A	40	-48.339	-27.253	81.606
ATOM	290	O	SER	A	40	-49.187	-26.374	81.489
ATOM	291	CB	SER	A	40	-48.326	-29.778	81.332
ATOM	292	OG	SER	A	40	-46.940	-29.851	81.016
ATOM	293	H	SER	A	40	-50.747	-29.217	81.765
ATOM	294	HG	SER	A	40	-46.759	-30.711	80.371
ATOM	295	N	TRP	A	41	-47.088	-27.104	81.191
ATOM	296	CA	TRP	A	41	-46.652	-25.881	80.539
ATOM	297	C	TRP	A	41	-45.869	-26.150	79.249
ATOM	298	O	TRP	A	41	-44.723	-26.570	79.276
ATOM	299	CB	TRP	A	41	-45.860	-25.006	81.515
ATOM	300	CG	TRP	A	41	-46.759	-24.141	82.347
ATOM	301	CD1	TRP	A	41	-47.319	-24.463	83.544
ATOM	302	CD2	TRP	A	41	-47.296	-22.862	81.984
ATOM	303	NE1	TRP	A	41	-48.184	-23.479	83.941
ATOM	304	CE2	TRP	A	41	-48.187	-22.481	83.003
ATOM	305	CE3	TRP	A	41	-47.115	-22.009	80.890
ATOM	306	CZ2	TRP	A	41	-48.903	-21.287	82.960
ATOM	307	CZ3	TRP	A	41	-47.822	-20.835	80.842
ATOM	308	CH2	TRP	A	41	-48.709	-20.480	81.872
ATOM	309	H	TRP	A	41	-46.374	-27.914	81.341
ATOM	310	HE1	TRP	A	41	-48.777	-23.489	84.856
ATOM	311	N	GLU	A	42	-46.524	-25.950	78.122
ATOM	312	CA	GLU	A	42	-45.924	-26.171	76.815
ATOM	313	C	GLU	A	42	-45.122	-24.941	76.401
ATOM	314	O	GLU	A	42	-45.538	-23.824	76.678
ATOM	315	CB	GLU	A	42	-47.043	-26.436	75.803

ATOM	316	CG	GLU	A	42	-46.608	-27.015	74.462
ATOM	317	CD	GLU	A	42	-47.776	-27.156	73.487
ATOM	318	OE1	GLU	A	42	-48.279	-26.110	72.999
ATOM	319	OE2	GLU	A	42	-48.192	-28.309	73.217
ATOM	320	H	GLU	A	42	-47.557	-25.605	78.171
ATOM	321	N	PRO	A	43	-43.934	-25.134	75.794
ATOM	322	CA	PRO	A	43	-43.044	-24.053	75.327
ATOM	323	C	PRO	A	43	-43.571	-23.223	74.127
ATOM	324	O	PRO	A	43	-43.583	-23.700	73.004
ATOM	325	CB	PRO	A	43	-41.750	-24.803	74.980
ATOM	326	CG	PRO	A	43	-42.210	-26.200	74.694
ATOM	327	CD	PRO	A	43	-43.236	-26.430	75.754
ATOM	328	N	PHE	A	44	-43.907	-21.955	74.360
ATOM	329	CA	PHE	A	44	-44.464	-21.096	73.321
ATOM	330	C	PHE	A	44	-43.539	-20.121	72.582
ATOM	331	O	PHE	A	44	-43.717	-19.886	71.379
ATOM	332	CB	PHE	A	44	-45.671	-20.331	73.891
ATOM	333	CG	PHE	A	44	-46.388	-19.485	72.883
ATOM	334	CD1	PHE	A	44	-47.133	-20.069	71.865
ATOM	335	CD2	PHE	A	44	-46.329	-18.099	72.944
ATOM	336	CE1	PHE	A	44	-47.807	-19.295	70.926
ATOM	337	CE2	PHE	A	44	-47.012	-17.314	71.991
ATOM	338	CZ	PHE	A	44	-47.750	-17.928	70.983
ATOM	339	H	PHE	A	44	-43.759	-21.546	75.360
ATOM	340	N	ALA	A	45	-42.575	-19.521	73.274
ATOM	341	CA	ALA	A	45	-41.718	-18.559	72.588
ATOM	342	C	ALA	A	45	-40.345	-18.311	73.189
ATOM	343	O	ALA	A	45	-40.045	-18.752	74.313
ATOM	344	CB	ALA	A	45	-42.457	-17.252	72.390
ATOM	345	H	ALA	A	45	-42.427	-19.743	74.331
ATOM	346	N	SER	A	46	-39.505	-17.656	72.391
ATOM	347	CA	SER	A	46	-38.134	-17.329	72.752
ATOM	348	C	SER	A	46	-37.682	-16.142	71.929
ATOM	349	O	SER	A	46	-38.059	-15.993	70.758
ATOM	350	CB	SER	A	46	-37.189	-18.494	72.435
ATOM	351	OG	SER	A	46	-37.147	-19.477	73.464
ATOM	352	H	SER	A	46	-39.865	-17.346	71.410
ATOM	353	HG	SER	A	46	-36.460	-20.274	73.178
ATOM	354	N	GLY	A	47	-36.820	-15.333	72.527
ATOM	355	CA	GLY	A	47	-36.293	-14.168	71.842
ATOM	356	C	GLY	A	47	-35.627	-13.278	72.868
ATOM	357	O	GLY	A	47	-35.629	-13.604	74.056
ATOM	358	H	GLY	A	47	-36.503	-15.544	73.548
ATOM	359	N	LYS	A	48	-35.001	-12.207	72.396
ATOM	360	CA	LYS	A	48	-34.330	-11.252	73.252
ATOM	361	C	LYS	A	48	-34.841	-9.862	72.907
ATOM	362	O	LYS	A	48	-35.560	-9.691	71.898
ATOM	363	CB	LYS	A	48	-32.827	-11.318	73.028
ATOM	364	CG	LYS	A	48	-32.127	-12.254	73.998
ATOM	365	CD	LYS	A	48	-30.720	-12.546	73.538
ATOM	366	CE	LYS	A	48	-29.952	-13.334	74.568
ATOM	367	NZ	LYS	A	48	-28.658	-13.772	73.988
ATOM	368	H	LYS	A	48	-34.993	-12.039	71.319
ATOM	369	HZ1	LYS	A	48	-28.101	-14.342	74.732
ATOM	370	HZ2	LYS	A	48	-28.078	-12.898	73.692
ATOM	371	HZ3	LYS	A	48	-28.844	-14.398	73.115
ATOM	372	N	THR	A	49	-34.524	-8.891	73.765
ATOM	373	CA	THR	A	49	-34.926	-7.512	73.534
ATOM	374	C	THR	A	49	-33.876	-6.837	72.656
ATOM	375	O	THR	A	49	-32.669	-7.040	72.853
ATOM	376	CB	THR	A	49	-35.054	-6.769	74.851
ATOM	377	OG1	THR	A	49	-33.844	-6.931	75.607
ATOM	378	CG2	THR	A	49	-36.235	-7.309	75.640

ATOM	379	H	THR	A	49	-33.949	-9.136	74.658
ATOM	380	HG1	THR	A	49	-33.934	-6.398	76.554
ATOM	381	N	ALA	A	50	-34.330	-6.110	71.638
ATOM	382	CA	ALA	A	50	-33.428	-5.418	70.723
ATOM	383	C	ALA	A	50	-32.854	-4.185	71.399
ATOM	384	O	ALA	A	50	-32.970	-4.039	72.616
ATOM	385	CB	ALA	A	50	-34.167	-5.037	69.464
ATOM	386	H	ALA	A	50	-35.406	-6.030	71.483
ATOM	387	N	GLU	A	51	-32.253	-3.289	70.618
ATOM	388	CA	GLU	A	51	-31.664	-2.057	71.162
ATOM	389	C	GLU	A	51	-32.772	-1.100	71.584
ATOM	390	O	GLU	A	51	-32.545	-0.092	72.248
ATOM	391	CB	GLU	A	51	-30.746	-1.373	70.146
ATOM	392	CG	GLU	A	51	-29.780	-2.317	69.428
ATOM	393	CD	GLU	A	51	-30.324	-2.759	68.081
ATOM	394	OE1	GLU	A	51	-31.053	-3.778	68.029
ATOM	395	OE2	GLU	A	51	-30.038	-2.065	67.078
ATOM	396	H	GLU	A	51	-32.195	-3.475	69.545
ATOM	397	N	SER	A	52	-33.986	-1.446	71.202
ATOM	398	CA	SER	A	52	-35.145	-0.662	71.540
ATOM	399	C	SER	A	52	-35.739	-1.193	72.848
ATOM	400	O	SER	A	52	-36.809	-0.742	73.281
ATOM	401	CB	SER	A	52	-36.144	-0.808	70.402
ATOM	402	OG	SER	A	52	-35.966	-2.080	69.786
ATOM	403	H	SER	A	52	-34.116	-2.354	70.614
ATOM	404	HG	SER	A	52	-36.680	-2.191	68.969
ATOM	405	N	GLY	A	53	-35.043	-2.164	73.457
ATOM	406	CA	GLY	A	53	-35.497	-2.765	74.697
ATOM	407	C	GLY	A	53	-36.941	-3.139	74.500
ATOM	408	O	GLY	A	53	-37.786	-2.950	75.364
ATOM	409	H	GLY	A	53	-34.112	-2.512	73.009
ATOM	410	N	GLU	A	54	-37.198	-3.682	73.324
ATOM	411	CA	GLU	A	54	-38.521	-4.073	72.892
ATOM	412	C	GLU	A	54	-38.338	-5.361	72.063
ATOM	413	O	GLU	A	54	-37.361	-5.488	71.323
ATOM	414	CB	GLU	A	54	-39.068	-2.921	72.036
ATOM	415	CG	GLU	A	54	-40.485	-3.051	71.596
ATOM	416	CD	GLU	A	54	-40.863	-1.972	70.612
ATOM	417	OE1	GLU	A	54	-40.603	-0.780	70.866
ATOM	418	OE2	GLU	A	54	-41.417	-2.325	69.559
ATOM	419	H	GLU	A	54	-36.365	-3.843	72.640
ATOM	420	N	LEU	A	55	-39.217	-6.339	72.262
ATOM	421	CA	LEU	A	55	-39.140	-7.599	71.533
ATOM	422	C	LEU	A	55	-40.373	-7.828	70.660
ATOM	423	O	LEU	A	55	-41.459	-8.204	71.148
ATOM	424	CB	LEU	A	55	-38.954	-8.776	72.495
ATOM	425	CG	LEU	A	55	-39.394	-10.157	71.971
ATOM	426	CD1	LEU	A	55	-38.621	-10.546	70.708
ATOM	427	CD2	LEU	A	55	-39.230	-11.214	73.059
ATOM	428	H	LEU	A	55	-40.015	-6.195	72.990
ATOM	429	N	HIS	A	56	-40.219	-7.503	69.386
ATOM	430	CA	HIS	A	56	-41.287	-7.705	68.419
ATOM	431	C	HIS	A	56	-40.846	-8.772	67.436
ATOM	432	O	HIS	A	56	-40.035	-8.500	66.540
ATOM	433	CB	HIS	A	56	-41.706	-6.420	67.677
ATOM	434	CG	HIS	A	56	-40.604	-5.425	67.465
ATOM	435	ND1	HIS	A	56	-40.324	-4.419	68.370
ATOM	436	CD2	HIS	A	56	-39.740	-5.249	66.432
ATOM	437	CE1	HIS	A	56	-39.341	-3.667	67.903
ATOM	438	NE2	HIS	A	56	-38.970	-4.150	66.728
ATOM	439	H	HIS	A	56	-39.273	-7.077	69.054
ATOM	440	HD1	HIS	A	56	-40.835	-4.268	69.321
ATOM	441	N	GLY	A	57	-41.309	-9.999	67.675

ATOM	442	CA	GLY	A	57	-40.974	-11.123	66.813
ATOM	443	C	GLY	A	57	-41.229	-12.445	67.526
ATOM	444	O	GLY	A	57	-40.296	-13.243	67.741
ATOM	445	H	GLY	A	57	-41.955	-10.164	68.537
ATOM	446	N	LEU	A	58	-42.493	-12.662	67.900
ATOM	447	CA	LEU	A	58	-42.896	-13.864	68.611
ATOM	448	C	LEU	A	58	-44.021	-14.620	67.945
ATOM	449	O	LEU	A	58	-43.766	-15.506	67.134
ATOM	450	CB	LEU	A	58	-43.308	-13.533	70.038
ATOM	451	CG	LEU	A	58	-42.241	-13.035	70.993
ATOM	452	CD1	LEU	A	58	-42.902	-12.482	72.245
ATOM	453	CD2	LEU	A	58	-41.301	-14.157	71.297
ATOM	454	H	LEU	A	58	-43.249	-11.913	67.662
ATOM	455	N	THR	A	59	-45.264	-14.260	68.261
ATOM	456	CA	THR	A	59	-46.418	-14.975	67.721
ATOM	457	C	THR	A	59	-47.200	-14.267	66.627
ATOM	458	O	THR	A	59	-46.859	-13.166	66.205
ATOM	459	CB	THR	A	59	-47.399	-15.384	68.853
ATOM	460	OG1	THR	A	59	-48.358	-16.336	68.355
ATOM	461	CG2	THR	A	59	-48.115	-14.166	69.413
ATOM	462	H	THR	A	59	-45.423	-13.417	68.934
ATOM	463	HG1	THR	A	59	-49.041	-16.616	69.156
ATOM	464	N	THR	A	60	-48.220	-14.960	66.138
ATOM	465	CA	THR	A	60	-49.108	-14.443	65.115
ATOM	466	C	THR	A	60	-50.526	-14.617	65.642
ATOM	467	O	THR	A	60	-50.793	-15.544	66.410
ATOM	468	CB	THR	A	60	-48.978	-15.243	63.818
ATOM	469	OG1	THR	A	60	-48.886	-16.639	64.134
ATOM	470	CG2	THR	A	60	-47.749	-14.805	63.040
ATOM	471	H	THR	A	60	-48.398	-15.964	66.523
ATOM	472	HG1	THR	A	60	-48.793	-17.215	63.214
ATOM	473	N	ASP	A	61	-51.426	-13.730	65.233
ATOM	474	CA	ASP	A	61	-52.816	-13.804	65.658
ATOM	475	C	ASP	A	61	-53.292	-15.232	65.426
ATOM	476	O	ASP	A	61	-53.841	-15.868	66.323
ATOM	477	CB	ASP	A	61	-53.678	-12.817	64.863
ATOM	478	CG	ASP	A	61	-53.314	-11.354	65.125
ATOM	479	OD1	ASP	A	61	-52.177	-10.933	64.808
ATOM	480	OD2	ASP	A	61	-54.180	-10.613	65.635
ATOM	481	H	ASP	A	61	-51.116	-12.926	64.565
ATOM	482	N	GLU	A	62	-52.959	-15.761	64.256
ATOM	483	CA	GLU	A	62	-53.319	-17.113	63.859
ATOM	484	C	GLU	A	62	-52.906	-18.162	64.886
ATOM	485	O	GLU	A	62	-53.656	-19.092	65.154
ATOM	486	CB	GLU	A	62	-52.664	-17.434	62.514
ATOM	487	CG	GLU	A	62	-52.913	-18.843	61.980
ATOM	488	CD	GLU	A	62	-54.369	-19.099	61.585
ATOM	489	OE1	GLU	A	62	-55.193	-18.150	61.611
ATOM	490	OE2	GLU	A	62	-54.685	-20.262	61.239
ATOM	491	H	GLU	A	62	-52.386	-15.152	63.557
ATOM	492	N	LYS	A	63	-51.722	-17.979	65.467
ATOM	493	CA	LYS	A	63	-51.147	-18.911	66.453
ATOM	494	C	LYS	A	63	-51.353	-18.587	67.937
ATOM	495	O	LYS	A	63	-51.231	-19.467	68.785
ATOM	496	CB	LYS	A	63	-49.640	-19.068	66.184
ATOM	497	CG	LYS	A	63	-48.869	-19.928	67.196
ATOM	498	CD	LYS	A	63	-47.367	-19.919	66.922
ATOM	499	CE	LYS	A	63	-47.053	-20.301	65.473
ATOM	500	NZ	LYS	A	63	-45.607	-20.635	65.245
ATOM	501	H	LYS	A	63	-51.148	-17.092	65.200
ATOM	502	HZ1	LYS	A	63	-45.456	-20.896	64.197
ATOM	503	HZ2	LYS	A	63	-45.326	-21.480	65.874
ATOM	504	HZ3	LYS	A	63	-44.991	-19.772	65.498

ATOM	505	N	PHE	A	64	-51.674	-17.340	68.258
ATOM	506	CA	PHE	A	64	-51.850	-16.948	69.650
ATOM	507	C	PHE	A	64	-53.257	-17.257	70.183
ATOM	508	O	PHE	A	64	-54.074	-16.349	70.333
ATOM	509	CB	PHE	A	64	-51.526	-15.461	69.776
ATOM	510	CG	PHE	A	64	-51.468	-14.969	71.180
ATOM	511	CD1	PHE	A	64	-50.584	-15.520	72.091
ATOM	512	CD2	PHE	A	64	-52.325	-13.962	71.609
ATOM	513	CE1	PHE	A	64	-50.561	-15.079	73.413
ATOM	514	CE2	PHE	A	64	-52.306	-13.522	72.927
ATOM	515	CZ	PHE	A	64	-51.419	-14.089	73.825
ATOM	516	H	PHE	A	64	-51.808	-16.600	67.469
ATOM	517	N	THR	A	65	-53.525	-18.523	70.507
ATOM	518	CA	THR	A	65	-54.858	-18.929	70.991
ATOM	519	C	THR	A	65	-55.203	-18.461	72.397
ATOM	520	O	THR	A	65	-54.427	-17.770	73.032
ATOM	521	CB	THR	A	65	-55.076	-20.481	70.960
ATOM	522	OG1	THR	A	65	-54.534	-21.071	72.148
ATOM	523	CG2	THR	A	65	-54.434	-21.127	69.723
ATOM	524	H	THR	A	65	-52.741	-19.274	70.411
ATOM	525	HG1	THR	A	65	-54.689	-22.150	72.121
ATOM	526	N	GLU	A	66	-56.403	-18.815	72.849
ATOM	527	CA	GLU	A	66	-56.875	-18.463	74.179
ATOM	528	C	GLU	A	66	-56.139	-19.340	75.189
ATOM	529	O	GLU	A	66	-56.024	-20.561	74.987
ATOM	530	CB	GLU	A	66	-58.397	-18.678	74.297
ATOM	531	CG	GLU	A	66	-58.988	-18.226	75.663
ATOM	532	CD	GLU	A	66	-60.531	-18.144	75.715
ATOM	533	OE1	GLU	A	66	-61.139	-17.392	74.912
ATOM	534	OE2	GLU	A	66	-61.136	-18.803	76.595
ATOM	535	H	GLU	A	66	-57.058	-19.391	72.196
ATOM	536	N	GLY	A	67	-55.621	-18.723	76.251
ATOM	537	CA	GLY	A	67	-54.908	-19.493	77.253
ATOM	538	C	GLY	A	67	-54.151	-18.732	78.323
ATOM	539	O	GLY	A	67	-54.172	-17.507	78.375
ATOM	540	H	GLY	A	67	-55.733	-17.645	76.366
ATOM	541	N	VAL	A	68	-53.481	-19.480	79.195
ATOM	542	CA	VAL	A	68	-52.716	-18.908	80.290
ATOM	543	C	VAL	A	68	-51.268	-18.922	79.847
ATOM	544	O	VAL	A	68	-50.759	-19.960	79.446
ATOM	545	CB	VAL	A	68	-52.846	-19.773	81.561
ATOM	546	CG1	VAL	A	68	-52.248	-19.058	82.775
ATOM	547	CG2	VAL	A	68	-54.276	-20.135	81.786
ATOM	548	H	VAL	A	68	-53.508	-20.564	79.083
ATOM	549	N	TYR	A	69	-50.604	-17.779	79.965
ATOM	550	CA	TYR	A	69	-49.217	-17.646	79.543
ATOM	551	C	TYR	A	69	-48.336	-17.305	80.720
ATOM	552	O	TYR	A	69	-48.834	-17.004	81.810
ATOM	553	CB	TYR	A	69	-49.107	-16.562	78.486
ATOM	554	CG	TYR	A	69	-49.899	-16.896	77.257
ATOM	555	CD1	TYR	A	69	-51.281	-16.766	77.237
ATOM	556	CD2	TYR	A	69	-49.268	-17.389	76.120
ATOM	557	CE1	TYR	A	69	-52.016	-17.120	76.115
ATOM	558	CE2	TYR	A	69	-49.983	-17.748	74.998
ATOM	559	CZ	TYR	A	69	-51.358	-17.605	74.992
ATOM	560	OH	TYR	A	69	-52.048	-17.866	73.829
ATOM	561	H	TYR	A	69	-51.111	-16.914	80.392
ATOM	562	HH	TYR	A	69	-51.357	-18.236	73.072
ATOM	563	N	ARG	A	70	-47.027	-17.307	80.491
ATOM	564	CA	ARG	A	70	-46.068	-17.011	81.547
ATOM	565	C	ARG	A	70	-44.794	-16.535	80.883
ATOM	566	O	ARG	A	70	-43.988	-17.335	80.435
ATOM	567	CB	ARG	A	70	-45.841	-18.285	82.363

ATOM	568	CG	ARG	A	70	-44.689	-18.325	83.331
ATOM	569	CD	ARG	A	70	-44.136	-19.755	83.266
ATOM	570	NE	ARG	A	70	-43.182	-20.098	84.310
ATOM	571	CZ	ARG	A	70	-43.033	-21.330	84.782
ATOM	572	NH1	ARG	A	70	-43.775	-22.313	84.282
ATOM	573	NH2	ARG	A	70	-42.178	-21.577	85.774
ATOM	574	H	ARG	A	70	-46.663	-17.537	79.489
ATOM	575	HE	ARG	A	70	-42.561	-19.304	84.725
ATOM	576	HH1	ARG	A	70	-43.523	-23.248	84.782
ATOM	577	HH1	ARG	A	70	-44.518	-22.200	83.493
ATOM	578	HH2	ARG	A	70	-42.201	-22.640	86.016
ATOM	579	HH2	ARG	A	70	-41.553	-20.833	86.267
ATOM	580	N	VAL	A	71	-44.697	-15.227	80.696
ATOM	581	CA	VAL	A	71	-43.537	-14.614	80.067
ATOM	582	C	VAL	A	71	-42.489	-14.490	81.139
ATOM	583	O	VAL	A	71	-42.737	-13.939	82.201
ATOM	584	CB	VAL	A	71	-43.869	-13.225	79.476
ATOM	585	CG1	VAL	A	71	-42.587	-12.505	78.987
ATOM	586	CG2	VAL	A	71	-44.889	-13.380	78.321
ATOM	587	H	VAL	A	71	-45.516	-14.587	81.026
ATOM	588	N	GLU	A	72	-41.316	-15.021	80.849
ATOM	589	CA	GLU	A	72	-40.208	-15.035	81.780
ATOM	590	C	GLU	A	72	-39.039	-14.178	81.309
ATOM	591	O	GLU	A	72	-38.459	-14.419	80.240
ATOM	592	CB	GLU	A	72	-39.777	-16.479	81.962
ATOM	593	CG	GLU	A	72	-38.624	-16.651	82.904
ATOM	594	CD	GLU	A	72	-38.439	-18.068	83.323
ATOM	595	OE1	GLU	A	72	-39.462	-18.773	83.521
ATOM	596	OE2	GLU	A	72	-37.262	-18.480	83.455
ATOM	597	H	GLU	A	72	-41.175	-15.468	79.865
ATOM	598	N	LEU	A	73	-38.724	-13.163	82.101
ATOM	599	CA	LEU	A	73	-37.648	-12.239	81.807
ATOM	600	C	LEU	A	73	-36.461	-12.566	82.700
ATOM	601	O	LEU	A	73	-36.545	-12.505	83.952
ATOM	602	CB	LEU	A	73	-38.109	-10.796	82.048
ATOM	603	CG	LEU	A	73	-39.470	-10.373	81.445
ATOM	604	CD1	LEU	A	73	-39.938	-9.052	82.026
ATOM	605	CD2	LEU	A	73	-39.400	-10.292	79.926
ATOM	606	H	LEU	A	73	-39.302	-13.017	83.014
ATOM	607	N	ASP	A	74	-35.364	-12.947	82.044
ATOM	608	CA	ASP	A	74	-34.127	-13.308	82.726
ATOM	609	C	ASP	A	74	-33.419	-12.060	83.251
ATOM	610	O	ASP	A	74	-32.429	-11.589	82.687
ATOM	611	CB	ASP	A	74	-33.204	-14.107	81.795
ATOM	612	CG	ASP	A	74	-32.045	-14.773	82.543
ATOM	613	OD1	ASP	A	74	-32.186	-15.131	83.736
ATOM	614	OD2	ASP	A	74	-30.983	-14.955	81.922
ATOM	615	H	ASP	A	74	-35.394	-12.988	80.955
ATOM	616	N	THR	A	75	-33.935	-11.537	84.352
ATOM	617	CA	THR	A	75	-33.382	-10.351	84.963
ATOM	618	C	THR	A	75	-32.032	-10.566	85.610
ATOM	619	O	THR	A	75	-31.200	-9.668	85.596
ATOM	620	CB	THR	A	75	-34.332	-9.822	86.025
ATOM	621	OG1	THR	A	75	-34.567	-10.823	86.998
ATOM	622	CG2	THR	A	75	-35.680	-9.402	85.441
ATOM	623	H	THR	A	75	-34.801	-12.015	84.810
ATOM	624	HG1	THR	A	75	-35.249	-10.439	87.757
ATOM	625	N	LYS	A	76	-31.808	-11.748	86.173
ATOM	626	CA	LYS	A	76	-30.548	-12.039	86.841
ATOM	627	C	LYS	A	76	-29.366	-11.897	85.880
ATOM	628	O	LYS	A	76	-28.395	-11.203	86.173
ATOM	629	CB	LYS	A	76	-30.600	-13.418	87.510
ATOM	630	CG	LYS	A	76	-29.279	-13.854	88.103

ATOM	631	CD	LYS	A	76	-29.400	-14.796	89.281
ATOM	632	CE	LYS	A	76	-29.382	-14.014	90.584
ATOM	633	NZ	LYS	A	76	-28.986	-14.867	91.752
ATOM	634	H	LYS	A	76	-32.582	-12.514	86.133
ATOM	635	HZ1	LYS	A	76	-28.988	-14.263	92.660
ATOM	636	HZ2	LYS	A	76	-27.987	-15.270	91.586
ATOM	637	HZ3	LYS	A	76	-29.696	-15.687	91.860
ATOM	638	N	SER	A	77	-29.443	-12.517	84.716
ATOM	639	CA	SER	A	77	-28.361	-12.355	83.773
ATOM	640	C	SER	A	77	-28.159	-10.903	83.319
ATOM	641	O	SER	A	77	-27.046	-10.520	82.948
ATOM	642	CB	SER	A	77	-28.559	-13.256	82.563
ATOM	643	OG	SER	A	77	-27.857	-14.467	82.769
ATOM	644	H	SER	A	77	-30.305	-13.136	84.472
ATOM	645	HG	SER	A	77	-27.994	-15.118	81.906
ATOM	646	N	TYR	A	78	-29.227	-10.112	83.299
ATOM	647	CA	TYR	A	78	-29.114	-8.721	82.895
ATOM	648	C	TYR	A	78	-28.234	-7.977	83.891
ATOM	649	O	TYR	A	78	-27.144	-7.518	83.568
ATOM	650	CB	TYR	A	78	-30.487	-8.061	82.853
ATOM	651	CG	TYR	A	78	-30.444	-6.681	82.265
ATOM	652	CD1	TYR	A	78	-30.314	-6.500	80.900
ATOM	653	CD2	TYR	A	78	-30.476	-5.556	83.077
ATOM	654	CE1	TYR	A	78	-30.208	-5.242	80.340
ATOM	655	CE2	TYR	A	78	-30.370	-4.280	82.534
ATOM	656	CZ	TYR	A	78	-30.234	-4.134	81.155
ATOM	657	OH	TYR	A	78	-30.132	-2.877	80.596
ATOM	658	H	TYR	A	78	-30.199	-10.512	83.587
ATOM	659	HH	TYR	A	78	-30.171	-2.125	81.384
ATOM	660	N	TRP	A	79	-28.695	-7.921	85.134
ATOM	661	CA	TRP	A	79	-27.975	-7.230	86.190
ATOM	662	C	TRP	A	79	-26.576	-7.761	86.413
ATOM	663	O	TRP	A	79	-25.652	-6.995	86.713
ATOM	664	CB	TRP	A	79	-28.794	-7.268	87.478
ATOM	665	CG	TRP	A	79	-30.020	-6.454	87.331
ATOM	666	CD1	TRP	A	79	-31.311	-6.855	87.511
ATOM	667	CD2	TRP	A	79	-30.075	-5.088	86.914
ATOM	668	NE1	TRP	A	79	-32.174	-5.814	87.228
ATOM	669	CE2	TRP	A	79	-31.439	-4.719	86.857
ATOM	670	CE3	TRP	A	79	-29.103	-4.139	86.575
ATOM	671	CZ2	TRP	A	79	-31.855	-3.446	86.472
ATOM	672	CZ3	TRP	A	79	-29.519	-2.871	86.193
ATOM	673	CH2	TRP	A	79	-30.887	-2.537	86.143
ATOM	674	H	TRP	A	79	-29.641	-8.408	85.370
ATOM	675	HE1	TRP	A	79	-33.261	-5.856	87.292
ATOM	676	N	LYS	A	80	-26.416	-9.063	86.193
ATOM	677	CA	LYS	A	80	-25.135	-9.713	86.377
ATOM	678	C	LYS	A	80	-24.036	-9.287	85.402
ATOM	679	O	LYS	A	80	-22.914	-9.019	85.827
ATOM	680	CB	LYS	A	80	-25.317	-11.230	86.413
ATOM	681	CG	LYS	A	80	-25.194	-11.787	87.842
ATOM	682	CD	LYS	A	80	-26.199	-12.885	88.135
ATOM	683	CE	LYS	A	80	-26.156	-14.061	87.119
ATOM	684	NZ	LYS	A	80	-24.978	-14.977	87.223
ATOM	685	H	LYS	A	80	-27.270	-9.655	85.864
ATOM	686	HZ1	LYS	A	80	-25.057	-15.757	86.465
ATOM	687	HZ2	LYS	A	80	-24.958	-15.432	88.213
ATOM	688	HZ3	LYS	A	80	-24.061	-14.409	87.066
ATOM	689	N	ALA	A	81	-24.363	-9.184	84.115
ATOM	690	CA	ALA	A	81	-23.390	-8.791	83.098
ATOM	691	C	ALA	A	81	-22.828	-7.396	83.331
ATOM	692	O	ALA	A	81	-21.716	-7.091	82.863
ATOM	693	CB	ALA	A	81	-24.017	-8.848	81.713

ATOM	694	H	ALA	A	81	-25.388	-9.398	83.812
ATOM	695	N	LEU	A	82	-23.638	-6.531	83.959
ATOM	696	CA	LEU	A	82	-23.236	-5.149	84.265
ATOM	697	C	LEU	A	82	-22.398	-5.036	85.556
ATOM	698	O	LEU	A	82	-21.789	-4.009	85.802
ATOM	699	CB	LEU	A	82	-24.457	-4.215	84.368
ATOM	700	CG	LEU	A	82	-25.507	-3.998	83.253
ATOM	701	CD1	LEU	A	82	-26.272	-2.693	83.553
ATOM	702	CD2	LEU	A	82	-24.893	-3.932	81.833
ATOM	703	H	LEU	A	82	-24.632	-6.866	84.256
ATOM	704	N	GLY	A	83	-22.392	-6.072	86.389
ATOM	705	CA	GLY	A	83	-21.627	-6.020	87.624
ATOM	706	C	GLY	A	83	-22.538	-5.857	88.831
ATOM	707	O	GLY	A	83	-22.151	-6.143	89.956
ATOM	708	H	GLY	A	83	-22.967	-6.965	86.145
ATOM	709	N	ILE	A	84	-23.742	-5.357	88.602
ATOM	710	CA	ILE	A	84	-24.732	-5.170	89.656
ATOM	711	C	ILE	A	84	-25.076	-6.570	90.173
ATOM	712	O	ILE	A	84	-24.961	-7.534	89.417
ATOM	713	CB	ILE	A	84	-26.015	-4.599	89.049
ATOM	714	CG1	ILE	A	84	-25.699	-3.396	88.170
ATOM	715	CG2	ILE	A	84	-27.022	-4.257	90.106
ATOM	716	CD1	ILE	A	84	-25.255	-2.202	88.914
ATOM	717	H	ILE	A	84	-24.004	-5.071	87.583
ATOM	718	N	SER	A	85	-25.507	-6.692	91.422
ATOM	719	CA	SER	A	85	-25.883	-7.997	91.960
ATOM	720	C	SER	A	85	-27.339	-7.890	92.415
ATOM	721	O	SER	A	85	-27.626	-7.394	93.502
ATOM	722	CB	SER	A	85	-24.984	-8.394	93.134
ATOM	723	OG	SER	A	85	-23.639	-8.641	92.745
ATOM	724	H	SER	A	85	-25.584	-5.808	92.054
ATOM	725	HG	SER	A	85	-23.053	-8.918	93.620
ATOM	726	N	PRO	A	86	-28.268	-8.386	91.586
ATOM	727	CA	PRO	A	86	-29.719	-8.396	91.775
ATOM	728	C	PRO	A	86	-30.244	-9.319	92.861
ATOM	729	O	PRO	A	86	-29.506	-10.118	93.445
ATOM	730	CB	PRO	A	86	-30.212	-8.865	90.430
ATOM	731	CG	PRO	A	86	-29.211	-9.913	90.104
ATOM	732	CD	PRO	A	86	-27.894	-9.267	90.463
ATOM	733	N	PHE	A	87	-31.552	-9.236	93.068
ATOM	734	CA	PHE	A	87	-32.259	-10.029	94.060
ATOM	735	C	PHE	A	87	-33.164	-11.030	93.375
ATOM	736	O	PHE	A	87	-33.159	-12.205	93.709
ATOM	737	CB	PHE	A	87	-33.105	-9.104	94.913
ATOM	738	CG	PHE	A	87	-33.961	-9.798	95.925
ATOM	739	CD1	PHE	A	87	-35.265	-10.162	95.618
ATOM	740	CD2	PHE	A	87	-33.501	-9.988	97.213
ATOM	741	CE1	PHE	A	87	-36.089	-10.684	96.588
ATOM	742	CE2	PHE	A	87	-34.311	-10.502	98.166
ATOM	743	CZ	PHE	A	87	-35.610	-10.854	97.858
ATOM	744	H	PHE	A	87	-32.127	-8.535	92.463
ATOM	745	N	HIS	A	88	-33.993	-10.545	92.457
ATOM	746	CA	HIS	A	88	-34.910	-11.425	91.736
ATOM	747	C	HIS	A	88	-34.105	-12.327	90.809
ATOM	748	O	HIS	A	88	-33.003	-11.953	90.381
ATOM	749	CB	HIS	A	88	-35.921	-10.614	90.922
ATOM	750	CG	HIS	A	88	-36.743	-9.664	91.742
ATOM	751	ND1	HIS	A	88	-37.831	-10.067	92.483
ATOM	752	CD2	HIS	A	88	-36.642	-8.324	91.918
ATOM	753	CE1	HIS	A	88	-38.365	-9.020	93.086
ATOM	754	NE2	HIS	A	88	-37.662	-7.948	92.757
ATOM	755	H	HIS	A	88	-33.990	-9.477	92.239
ATOM	756	HD1	HIS	A	88	-38.195	-11.092	92.562

ATOM	757	N	GLU	A	89	-34.634	-13.515	90.522
ATOM	758	CA	GLU	A	89	-33.962	-14.455	89.634
ATOM	759	C	GLU	A	89	-34.522	-14.364	88.222
ATOM	760	O	GLU	A	89	-33.823	-14.606	87.228
ATOM	761	CB	GLU	A	89	-34.150	-15.864	90.141
ATOM	762	CG	GLU	A	89	-33.285	-16.194	91.320
ATOM	763	CD	GLU	A	89	-32.245	-17.229	90.973
ATOM	764	OE1	GLU	A	89	-32.628	-18.297	90.422
ATOM	765	OE2	GLU	A	89	-31.057	-16.961	91.256
ATOM	766	H	GLU	A	89	-35.593	-13.791	90.961
ATOM	767	N	TYR	A	90	-35.807	-14.043	88.161
ATOM	768	CA	TYR	A	90	-36.549	-13.913	86.919
ATOM	769	C	TYR	A	90	-37.672	-12.935	87.249
ATOM	770	O	TYR	A	90	-37.861	-12.559	88.397
ATOM	771	CB	TYR	A	90	-37.191	-15.258	86.532
ATOM	772	CG	TYR	A	90	-36.238	-16.433	86.416
ATOM	773	CD1	TYR	A	90	-35.274	-16.479	85.403
ATOM	774	CD2	TYR	A	90	-36.301	-17.500	87.313
ATOM	775	CE1	TYR	A	90	-34.391	-17.557	85.284
ATOM	776	CE2	TYR	A	90	-35.420	-18.585	87.206
ATOM	777	CZ	TYR	A	90	-34.464	-18.610	86.189
ATOM	778	OH	TYR	A	90	-33.563	-19.666	86.072
ATOM	779	H	TYR	A	90	-36.337	-13.867	89.097
ATOM	780	HH	TYR	A	90	-33.759	-20.399	86.854
ATOM	781	N	ALA	A	91	-38.401	-12.516	86.234
ATOM	782	CA	ALA	A	91	-39.530	-11.630	86.406
ATOM	783	C	ALA	A	91	-40.538	-12.319	85.515
ATOM	784	O	ALA	A	91	-40.278	-12.502	84.340
ATOM	785	CB	ALA	A	91	-39.198	-10.228	85.880
ATOM	786	H	ALA	A	91	-38.145	-12.851	85.229
ATOM	787	N	GLU	A	92	-41.646	-12.769	86.080
ATOM	788	CA	GLU	A	92	-42.639	-13.474	85.291
ATOM	789	C	GLU	A	92	-43.970	-12.774	85.214
ATOM	790	O	GLU	A	92	-44.517	-12.351	86.236
ATOM	791	CB	GLU	A	92	-42.902	-14.853	85.858
ATOM	792	CG	GLU	A	92	-41.736	-15.771	85.880
ATOM	793	CD	GLU	A	92	-42.190	-17.200	86.044
ATOM	794	OE1	GLU	A	92	-43.231	-17.426	86.708
ATOM	795	OE2	GLU	A	92	-41.521	-18.101	85.487
ATOM	796	H	GLU	A	92	-41.813	-12.614	87.146
ATOM	797	N	VAL	A	93	-44.527	-12.748	84.009
ATOM	798	CA	VAL	A	93	-45.813	-12.140	83.786
ATOM	799	C	VAL	A	93	-46.715	-13.295	83.407
ATOM	800	O	VAL	A	93	-46.597	-13.847	82.305
ATOM	801	CB	VAL	A	93	-45.804	-11.134	82.596
ATOM	802	CG1	VAL	A	93	-47.096	-10.334	82.574
ATOM	803	CG2	VAL	A	93	-44.637	-10.203	82.679
ATOM	804	H	VAL	A	93	-43.999	-13.198	83.169
ATOM	805	N	VAL	A	94	-47.551	-13.725	84.343
ATOM	806	CA	VAL	A	94	-48.494	-14.804	84.073
ATOM	807	C	VAL	A	94	-49.894	-14.182	83.923
ATOM	808	O	VAL	A	94	-50.398	-13.502	84.836
ATOM	809	CB	VAL	A	94	-48.451	-15.862	85.189
ATOM	810	CG1	VAL	A	94	-49.351	-17.026	84.856
ATOM	811	CG2	VAL	A	94	-47.030	-16.353	85.379
ATOM	812	H	VAL	A	94	-47.534	-13.264	85.330
ATOM	813	N	PHE	A	95	-50.476	-14.348	82.736
ATOM	814	CA	PHE	A	95	-51.799	-13.810	82.418
ATOM	815	C	PHE	A	95	-52.556	-14.764	81.487
ATOM	816	O	PHE	A	95	-51.954	-15.513	80.710
ATOM	817	CB	PHE	A	95	-51.654	-12.453	81.708
ATOM	818	CG	PHE	A	95	-50.923	-12.542	80.399
ATOM	819	CD1	PHE	A	95	-49.535	-12.472	80.357

ATOM	820	CD2	PHE	A	95	-51.606	-12.782	79.223
ATOM	821	CE1	PHE	A	95	-48.844	-12.651	79.154
ATOM	822	CE2	PHE	A	95	-50.918	-12.958	78.021
ATOM	823	CZ	PHE	A	95	-49.543	-12.894	77.992
ATOM	824	H	PHE	A	95	-49.944	-14.911	81.969
ATOM	825	N	THR	A	96	-53.879	-14.729	81.549
ATOM	826	CA	THR	A	96	-54.674	-15.578	80.685
ATOM	827	C	THR	A	96	-54.883	-14.645	79.490
ATOM	828	O	THR	A	96	-54.910	-13.421	79.680
ATOM	829	CB	THR	A	96	-55.993	-15.989	81.382
ATOM	830	OG1	THR	A	96	-56.319	-17.335	81.021
ATOM	831	CG2	THR	A	96	-57.136	-15.067	81.000
ATOM	832	H	THR	A	96	-54.371	-14.059	82.254
ATOM	833	HG1	THR	A	96	-57.248	-17.628	81.510
ATOM	834	N	ALA	A	97	-55.026	-15.195	78.283
ATOM	835	CA	ALA	A	97	-55.158	-14.363	77.092
ATOM	836	C	ALA	A	97	-56.229	-14.744	76.088
ATOM	837	O	ALA	A	97	-56.584	-15.908	75.925
ATOM	838	CB	ALA	A	97	-53.817	-14.272	76.379
ATOM	839	H	ALA	A	97	-55.043	-16.280	78.185
ATOM	840	N	ASN	A	98	-56.735	-13.720	75.413
ATOM	841	CA	ASN	A	98	-57.737	-13.879	74.374
ATOM	842	C	ASN	A	98	-59.099	-14.403	74.782
ATOM	843	O	ASN	A	98	-59.875	-14.806	73.914
ATOM	844	CB	ASN	A	98	-57.195	-14.758	73.246
ATOM	845	CG	ASN	A	98	-56.046	-14.116	72.502
ATOM	846	OD1	ASN	A	98	-55.926	-12.893	72.433
ATOM	847	ND2	ASN	A	98	-55.209	-14.941	71.915
ATOM	848	H	ASN	A	98	-56.386	-12.715	75.650
ATOM	849	HD2	ASN	A	98	-54.428	-14.369	71.413
ATOM	850	HD2	ASN	A	98	-55.284	-16.028	71.927
ATOM	851	N	ASP	A	99	-59.417	-14.397	76.073
ATOM	852	CA	ASP	A	99	-60.734	-14.869	76.488
ATOM	853	C	ASP	A	99	-61.786	-13.769	76.239
ATOM	854	O	ASP	A	99	-62.574	-13.414	77.122
ATOM	855	CB	ASP	A	99	-60.718	-15.330	77.950
ATOM	856	CG	ASP	A	99	-60.568	-14.188	78.913
ATOM	857	OD1	ASP	A	99	-59.775	-13.266	78.622
ATOM	858	OD2	ASP	A	99	-61.263	-14.203	79.951
ATOM	859	H	ASP	A	99	-58.701	-14.045	76.815
ATOM	860	N	SER	A	100	-61.793	-13.253	75.010
ATOM	861	CA	SER	A	100	-62.699	-12.195	74.578
ATOM	862	C	SER	A	100	-62.691	-12.091	73.056
ATOM	863	O	SER	A	100	-63.452	-11.310	72.477
ATOM	864	CB	SER	A	100	-62.265	-10.849	75.151
ATOM	865	OG	SER	A	100	-62.124	-10.887	76.561
ATOM	866	H	SER	A	100	-61.080	-13.646	74.285
ATOM	867	HG	SER	A	100	-61.814	-9.906	76.922
ATOM	868	N	GLY	A	101	-61.802	-12.843	72.409
ATOM	869	CA	GLY	A	101	-61.734	-12.801	70.957
ATOM	870	C	GLY	A	101	-60.421	-12.305	70.373
ATOM	871	O	GLY	A	101	-60.408	-11.643	69.329
ATOM	872	H	GLY	A	101	-61.125	-13.489	72.968
ATOM	873	N	HIS	A	102	-59.317	-12.670	71.025
ATOM	874	CA	HIS	A	102	-57.971	-12.280	70.600
ATOM	875	C	HIS	A	102	-57.748	-10.793	70.316
ATOM	876	O	HIS	A	102	-58.095	-10.288	69.238
ATOM	877	CB	HIS	A	102	-57.494	-13.107	69.403
ATOM	878	CG	HIS	A	102	-56.111	-12.748	68.957
ATOM	879	ND1	HIS	A	102	-55.019	-13.544	69.214
ATOM	880	CD2	HIS	A	102	-55.630	-11.627	68.366
ATOM	881	CE1	HIS	A	102	-53.922	-12.923	68.816
ATOM	882	NE2	HIS	A	102	-54.267	-11.757	68.298

ATOM	883	H	HIS	A	102	-59.422	-13.289	71.916
ATOM	884	HD1	HIS	A	102	-55.052	-14.531	69.674
ATOM	885	N	ARG	A	103	-57.039	-10.140	71.229
ATOM	886	CA	ARG	A	103	-56.748	-8.716	71.109
ATOM	887	C	ARG	A	103	-55.251	-8.480	70.892
ATOM	888	O	ARG	A	103	-54.555	-9.342	70.331
ATOM	889	CB	ARG	A	103	-57.214	-8.004	72.379
ATOM	890	CG	ARG	A	103	-58.717	-7.936	72.541
ATOM	891	CD	ARG	A	103	-59.067	-7.121	73.767
ATOM	892	NE	ARG	A	103	-60.500	-7.115	74.040
ATOM	893	CZ	ARG	A	103	-61.075	-7.759	75.053
ATOM	894	NH1	ARG	A	103	-60.348	-8.475	75.907
ATOM	895	NH2	ARG	A	103	-62.391	-7.692	75.207
ATOM	896	H	ARG	A	103	-56.665	-10.684	72.096
ATOM	897	HE	ARG	A	103	-61.143	-6.544	73.370
ATOM	898	HH1	ARG	A	103	-61.002	-8.919	76.657
ATOM	899	HH1	ARG	A	103	-59.266	-8.598	75.862
ATOM	900	HH2	ARG	A	103	-62.685	-8.274	76.080
ATOM	901	HH2	ARG	A	103	-63.074	-7.141	74.560
ATOM	902	N	HIS	A	104	-54.769	-7.299	71.284
ATOM	903	CA	HIS	A	104	-53.348	-6.992	71.179
ATOM	904	C	HIS	A	104	-52.748	-6.679	72.541
ATOM	905	O	HIS	A	104	-53.182	-5.764	73.255
ATOM	906	CB	HIS	A	104	-53.062	-5.889	70.170
ATOM	907	CG	HIS	A	104	-52.854	-6.402	68.784
ATOM	908	ND1	HIS	A	104	-52.118	-5.723	67.839
ATOM	909	CD2	HIS	A	104	-53.292	-7.533	68.181
ATOM	910	CE1	HIS	A	104	-52.115	-6.412	66.713
ATOM	911	NE2	HIS	A	104	-52.821	-7.514	66.889
ATOM	912	H	HIS	A	104	-55.450	-6.551	71.689
ATOM	913	HD1	HIS	A	104	-51.614	-4.770	67.997
ATOM	914	N	TYR	A	105	-51.748	-7.476	72.894
ATOM	915	CA	TYR	A	105	-51.083	-7.367	74.170
ATOM	916	C	TYR	A	105	-49.753	-6.643	74.124
ATOM	917	O	TYR	A	105	-49.068	-6.609	73.097
ATOM	918	CB	TYR	A	105	-50.918	-8.766	74.780
ATOM	919	CG	TYR	A	105	-52.247	-9.401	75.111
ATOM	920	CD1	TYR	A	105	-53.139	-9.772	74.099
ATOM	921	CD2	TYR	A	105	-52.648	-9.565	76.427
ATOM	922	CE1	TYR	A	105	-54.392	-10.277	74.395
ATOM	923	CE2	TYR	A	105	-53.897	-10.068	76.736
ATOM	924	CZ	TYR	A	105	-54.765	-10.420	75.720
ATOM	925	OH	TYR	A	105	-56.014	-10.902	76.031
ATOM	926	H	TYR	A	105	-51.416	-8.242	72.193
ATOM	927	HH	TYR	A	105	-56.127	-10.945	77.114
ATOM	928	N	THR	A	106	-49.432	-6.018	75.249
ATOM	929	CA	THR	A	106	-48.188	-5.295	75.413
ATOM	930	C	THR	A	106	-47.792	-5.369	76.877
ATOM	931	O	THR	A	106	-48.522	-4.917	77.776
ATOM	932	CB	THR	A	106	-48.283	-3.815	75.007
ATOM	933	OG1	THR	A	106	-48.790	-3.688	73.664
ATOM	934	CG2	THR	A	106	-46.896	-3.196	75.078
ATOM	935	H	THR	A	106	-50.134	-6.049	76.083
ATOM	936	HG1	THR	A	106	-48.850	-2.633	73.396
ATOM	937	N	ILE	A	107	-46.629	-5.949	77.108
ATOM	938	CA	ILE	A	107	-46.100	-6.102	78.444
ATOM	939	C	ILE	A	107	-44.848	-5.239	78.536
ATOM	940	O	ILE	A	107	-44.011	-5.242	77.630
ATOM	941	CB	ILE	A	107	-45.695	-7.570	78.659
ATOM	942	CG1	ILE	A	107	-46.851	-8.498	78.258
ATOM	943	CG2	ILE	A	107	-45.189	-7.804	80.059
ATOM	944	CD1	ILE	A	107	-47.965	-8.579	79.276
ATOM	945	H	ILE	A	107	-46.048	-6.321	76.264

ATOM	946	N	ALA A 108	-44.780	-4.429	79.585
ATOM	947	CA	ALA A 108	-43.624	-3.582	79.849
ATOM	948	C	ALA A 108	-42.956	-4.065	81.142
ATOM	949	O	ALA A 108	-43.570	-4.737	81.966
ATOM	950	CB	ALA A 108	-44.046	-2.112	79.987
ATOM	951	H	ALA A 108	-45.623	-4.394	80.275
ATOM	952	N	ALA A 109	-41.697	-3.730	81.317
ATOM	953	CA	ALA A 109	-41.017	-4.136	82.507
ATOM	954	C	ALA A 109	-40.004	-3.072	82.768
ATOM	955	O	ALA A 109	-39.282	-2.670	81.855
ATOM	956	CB	ALA A 109	-40.346	-5.462	82.298
ATOM	957	H	ALA A 109	-41.174	-3.146	80.559
ATOM	958	N	LEU A 110	-40.067	-2.494	83.964
ATOM	959	CA	LEU A 110	-39.122	-1.472	84.362
ATOM	960	C	LEU A 110	-38.174	-2.191	85.302
ATOM	961	O	LEU A 110	-38.596	-2.745	86.329
ATOM	962	CB	LEU A 110	-39.827	-0.336	85.083
ATOM	963	CG	LEU A 110	-38.902	0.698	85.722
ATOM	964	CD1	LEU A 110	-38.224	1.534	84.611
ATOM	965	CD2	LEU A 110	-39.715	1.590	86.649
ATOM	966	H	LEU A 110	-40.848	-2.797	84.661
ATOM	967	N	LEU A 111	-36.897	-2.195	84.935
ATOM	968	CA	LEU A 111	-35.871	-2.886	85.714
ATOM	969	C	LEU A 111	-34.956	-2.130	86.683
ATOM	970	O	LEU A 111	-34.425	-1.064	86.379
ATOM	971	CB	LEU A 111	-35.008	-3.726	84.773
ATOM	972	CG	LEU A 111	-35.794	-4.729	83.941
ATOM	973	CD1	LEU A 111	-34.814	-5.733	83.385
ATOM	974	CD2	LEU A 111	-36.880	-5.420	84.773
ATOM	975	H	LEU A 111	-36.606	-1.666	84.027
ATOM	976	N	SER A 112	-34.724	-2.757	87.823
ATOM	977	CA	SER A 112	-33.842	-2.258	88.851
ATOM	978	C	SER A 112	-33.434	-3.536	89.584
ATOM	979	O	SER A 112	-34.136	-4.551	89.490
ATOM	980	CB	SER A 112	-34.561	-1.281	89.760
ATOM	981	OG	SER A 112	-33.815	-0.079	89.844
ATOM	982	H	SER A 112	-35.229	-3.707	87.998
ATOM	983	HG	SER A 112	-34.332	0.624	90.497
ATOM	984	N	PRO A 113	-32.291	-3.518	90.300
ATOM	985	CA	PRO A 113	-31.791	-4.686	91.021
ATOM	986	C	PRO A 113	-32.696	-5.300	92.075
ATOM	987	O	PRO A 113	-32.826	-6.550	92.144
ATOM	988	CB	PRO A 113	-30.474	-4.179	91.629
ATOM	989	CG	PRO A 113	-30.063	-3.094	90.703
ATOM	990	CD	PRO A 113	-31.363	-2.388	90.475
ATOM	991	N	TYR A 114	-33.315	-4.458	92.902
ATOM	992	CA	TYR A 114	-34.163	-4.996	93.961
ATOM	993	C	TYR A 114	-35.633	-4.714	93.867
ATOM	994	O	TYR A 114	-36.328	-4.748	94.883
ATOM	995	CB	TYR A 114	-33.637	-4.607	95.342
ATOM	996	CG	TYR A 114	-32.359	-5.320	95.729
ATOM	997	CD1	TYR A 114	-31.136	-4.920	95.206
ATOM	998	CD2	TYR A 114	-32.374	-6.405	96.610
ATOM	999	CE1	TYR A 114	-29.962	-5.584	95.542
ATOM	1000	CE2	TYR A 114	-31.198	-7.073	96.957
ATOM	1001	CZ	TYR A 114	-30.000	-6.657	96.413
ATOM	1002	OH	TYR A 114	-28.835	-7.316	96.712
ATOM	1003	H	TYR A 114	-33.187	-3.381	92.791
ATOM	1004	HH	TYR A 114	-29.045	-8.128	97.407
ATOM	1005	N	SER A 115	-36.121	-4.480	92.652
ATOM	1006	CA	SER A 115	-37.541	-4.213	92.438
ATOM	1007	C	SER A 115	-37.850	-4.003	90.980
ATOM	1008	O	SER A 115	-37.199	-3.214	90.316

ATOM	1009	CB	SER A 115	-37.994	-2.986	93.227
ATOM	1010	OG	SER A 115	-37.559	-1.795	92.627
ATOM	1011	H	SER A 115	-35.446	-4.487	91.796
ATOM	1012	HG	SER A 115	-37.911	-0.952	93.222
ATOM	1013	N	TYR A 116	-38.813	-4.753	90.468
ATOM	1014	CA	TYR A 116	-39.203	-4.610	89.084
ATOM	1015	C	TYR A 116	-40.673	-4.202	89.089
ATOM	1016	O	TYR A 116	-41.270	-4.083	90.147
ATOM	1017	CB	TYR A 116	-38.892	-5.897	88.284
ATOM	1018	CG	TYR A 116	-39.748	-7.110	88.543
ATOM	1019	CD1	TYR A 116	-41.051	-7.188	88.043
ATOM	1020	CD2	TYR A 116	-39.245	-8.203	89.236
ATOM	1021	CE1	TYR A 116	-41.830	-8.337	88.223
ATOM	1022	CE2	TYR A 116	-40.011	-9.355	89.427
ATOM	1023	CZ	TYR A 116	-41.300	-9.416	88.915
ATOM	1024	OH	TYR A 116	-42.066	-10.553	89.070
ATOM	1025	H	TYR A 116	-39.316	-5.488	91.096
ATOM	1026	HH	TYR A 116	-41.503	-11.297	89.633
ATOM	1027	N	SER A 117	-41.234	-3.891	87.932
ATOM	1028	CA	SER A 117	-42.633	-3.461	87.857
ATOM	1029	C	SER A 117	-43.141	-3.846	86.501
ATOM	1030	O	SER A 117	-42.479	-3.549	85.495
ATOM	1031	CB	SER A 117	-42.746	-1.925	87.991
ATOM	1032	OG	SER A 117	-42.080	-1.416	89.144
ATOM	1033	H	SER A 117	-40.643	-3.953	87.018
ATOM	1034	HG	SER A 117	-42.196	-0.332	89.181
ATOM	1035	N	THR A 118	-44.279	-4.529	86.469
ATOM	1036	CA	THR A 118	-44.878	-4.930	85.195
ATOM	1037	C	THR A 118	-46.309	-4.429	85.066
ATOM	1038	O	THR A 118	-47.034	-4.317	86.052
ATOM	1039	CB	THR A 118	-44.859	-6.456	84.955
ATOM	1040	OG1	THR A 118	-43.542	-6.976	85.183
ATOM	1041	CG2	THR A 118	-45.215	-6.732	83.505
ATOM	1042	H	THR A 118	-44.774	-4.794	87.403
ATOM	1043	HG1	THR A 118	-43.541	-8.052	85.011
ATOM	1044	N	THR A 119	-46.711	-4.188	83.828
ATOM	1045	CA	THR A 119	-48.029	-3.676	83.483
ATOM	1046	C	THR A 119	-48.333	-4.008	82.029
ATOM	1047	O	THR A 119	-47.440	-4.023	81.187
ATOM	1048	CB	THR A 119	-48.072	-2.151	83.633
ATOM	1049	OG1	THR A 119	-49.102	-1.605	82.794
ATOM	1050	CG2	THR A 119	-46.722	-1.544	83.286
ATOM	1051	H	THR A 119	-46.011	-4.384	83.016
ATOM	1052	HG1	THR A 119	-49.125	-0.521	82.907
ATOM	1053	N	ALA A 120	-49.602	-4.275	81.749
ATOM	1054	CA	ALA A 120	-50.057	-4.603	80.409
ATOM	1055	C	ALA A 120	-50.932	-3.457	79.910
ATOM	1056	O	ALA A 120	-51.371	-2.613	80.695
ATOM	1057	CB	ALA A 120	-50.834	-5.890	80.427
ATOM	1058	H	ALA A 120	-50.333	-4.247	82.557
ATOM	1059	N	VAL A 121	-51.140	-3.420	78.597
ATOM	1060	CA	VAL A 121	-51.928	-2.389	77.906
ATOM	1061	C	VAL A 121	-52.733	-3.135	76.849
ATOM	1062	O	VAL A 121	-52.232	-3.379	75.750
ATOM	1063	CB	VAL A 121	-50.977	-1.427	77.200
ATOM	1064	CG1	VAL A 121	-51.742	-0.338	76.434
ATOM	1065	CG2	VAL A 121	-50.000	-0.863	78.207
ATOM	1066	H	VAL A 121	-50.692	-4.209	77.992
ATOM	1067	N	VAL A 122	-53.948	-3.544	77.195
ATOM	1068	CA	VAL A 122	-54.774	-4.313	76.276
ATOM	1069	C	VAL A 122	-55.378	-3.462	75.156
ATOM	1070	O	VAL A 122	-56.255	-2.623	75.384
ATOM	1071	CB	VAL A 122	-55.859	-5.122	77.037

ATOM	1072	CG1	VAL	A	122	-56.778	-5.824	76.064
ATOM	1073	CG2	VAL	A	122	-55.201	-6.148	77.939
ATOM	1074	H	VAL	A	122	-54.335	-3.298	78.184
ATOM	1075	N	SER	A	123	-54.857	-3.670	73.954
ATOM	1076	CA	SER	A	123	-55.294	-2.945	72.772
ATOM	1077	C	SER	A	123	-56.266	-3.710	71.873
ATOM	1078	O	SER	A	123	-56.490	-4.909	72.035
ATOM	1079	CB	SER	A	123	-54.071	-2.472	71.963
ATOM	1080	OG	SER	A	123	-52.953	-3.353	72.075
ATOM	1081	H	SER	A	123	-54.070	-4.417	73.847
ATOM	1082	HG	SER	A	123	-52.124	-2.965	71.483
ATOM	1083	N	ASN	A	124	-56.833	-2.998	70.909
ATOM	1084	CA	ASN	A	124	-57.780	-3.575	69.976
ATOM	1085	C	ASN	A	124	-57.432	-3.138	68.573
ATOM	1086	O	ASN	A	124	-57.346	-1.931	68.302
ATOM	1087	CB	ASN	A	124	-59.189	-3.099	70.283
ATOM	1088	CG	ASN	A	124	-60.021	-4.158	70.935
ATOM	1089	OD1	ASN	A	124	-59.716	-4.600	72.034
ATOM	1090	ND2	ASN	A	124	-61.086	-4.577	70.267
ATOM	1091	H	ASN	A	124	-56.578	-1.942	70.815
ATOM	1092	HD2	ASN	A	124	-61.601	-5.343	70.847
ATOM	1093	HD2	ASN	A	124	-61.397	-4.215	69.287
ATOM	1094	N	PRO	A	125	-57.136	-4.113	67.688
ATOM	1095	CA	PRO	A	125	-56.791	-3.847	66.283
ATOM	1096	C	PRO	A	125	-58.034	-3.282	65.598
ATOM	1097	O	PRO	A	125	-57.955	-2.291	64.868
ATOM	1098	CB	PRO	A	125	-56.406	-5.233	65.748
ATOM	1099	CG	PRO	A	125	-57.173	-6.186	66.643
ATOM	1100	CD	PRO	A	125	-57.013	-5.551	68.000
ATOM	1101	N	GLN	A	126	-59.178	-3.917	65.859
ATOM	1102	CA	GLN	A	126	-60.465	-3.473	65.334
ATOM	1103	C	GLN	A	126	-61.328	-3.084	66.532
ATOM	1104	O	GLN	A	126	-61.636	-3.941	67.366
ATOM	1105	CB	GLN	A	126	-61.155	-4.581	64.524
ATOM	1106	CG	GLN	A	126	-62.672	-4.385	64.310
ATOM	1107	CD	GLN	A	126	-63.043	-3.046	63.665
ATOM	1108	OE1	GLN	A	126	-62.984	-1.999	64.306
ATOM	1109	NE2	GLN	A	126	-63.448	-3.083	62.402
ATOM	1110	H	GLN	A	126	-59.151	-4.804	66.491
ATOM	1111	HE2	GLN	A	126	-63.679	-2.073	62.065
ATOM	1112	HE2	GLN	A	126	-63.535	-3.984	61.795
ATOM	1113	N	ASN	A	127	-61.605	-1.782	66.643
ATOM	1114	CA	ASN	A	127	-62.433	-1.160	67.686
ATOM	1115	C	ASN	A	127	-61.936	0.266	67.970
ATOM	1116	OCT	ASN	A	127	-61.267	0.490	69.007
ATOM	1117	CB	ASN	A	127	-62.457	-1.979	68.979
ATOM	1118	CG	ASN	A	127	-63.566	-1.560	69.912
ATOM	1119	OD1	ASN	A	127	-64.725	-1.931	69.730
ATOM	1120	ND2	ASN	A	127	-63.216	-0.795	70.927
ATOM	1121	OCT	ASN	A	127	-62.212	1.150	67.130
ATOM	1122	H	ASN	A	127	-61.177	-1.120	65.890
ATOM	1123	HD2	ASN	A	127	-64.096	-0.560	71.525
ATOM	1124	HD2	ASN	A	127	-62.203	-0.450	71.135
TER								
ATOM	1125	N	SER	B	8	-36.506	-13.514	117.752
ATOM	1126	CA	SER	B	8	-37.443	-12.378	117.951
ATOM	1127	C	SER	B	8	-37.864	-11.780	116.613
ATOM	1128	O	SER	B	8	-38.796	-10.982	116.553
ATOM	1129	CB	SER	B	8	-36.763	-11.308	118.802
ATOM	1130	OG	SER	B	8	-35.366	-11.316	118.544
ATOM	1131	H1	SER	B	8	-36.221	-13.923	118.722
ATOM	1132	H2	SER	B	8	-35.616	-13.165	117.229
ATOM	1133	H3	SER	B	8	-36.995	-14.288	117.160

ATOM	1134	HG	SER B	8	-34.881	-10.553	119.151
ATOM	1135	N	LYS B	9	-37.196	-12.195	115.542
ATOM	1136	CA	LYS B	9	-37.503	-11.670	114.223
ATOM	1137	C	LYS B	9	-37.407	-12.773	113.183
ATOM	1138	O	LYS B	9	-36.461	-13.559	113.191
ATOM	1139	CB	LYS B	9	-36.516	-10.545	113.891
ATOM	1140	CG	LYS B	9	-36.688	-9.884	112.534
ATOM	1141	CD	LYS B	9	-35.464	-9.029	112.233
ATOM	1142	CE	LYS B	9	-35.548	-8.357	110.878
ATOM	1143	NZ	LYS B	9	-34.240	-7.727	110.510
ATOM	1144	H	LYS B	9	-36.407	-12.939	115.655
ATOM	1145	HZ1	LYS B	9	-34.328	-7.251	109.533
ATOM	1146	HZ2	LYS B	9	-33.466	-8.493	110.473
ATOM	1147	HZ3	LYS B	9	-33.974	-6.979	111.257
ATOM	1148	N	CYS B	10	-38.422	-12.854	112.328
ATOM	1149	CA	CYS B	10	-38.441	-13.840	111.258
ATOM	1150	C	CYS B	10	-37.908	-13.163	109.987
ATOM	1151	O	CYS B	10	-38.054	-11.950	109.805
ATOM	1152	CB	CYS B	10	-39.850	-14.450	111.064
ATOM	1153	SG	CYS B	10	-41.307	-13.361	111.221
ATOM	1154	H	CYS B	10	-39.259	-12.164	112.429
ATOM	1155	N	PRO B	11	-37.135	-13.901	109.180
ATOM	1156	CA	PRO B	11	-36.589	-13.320	107.955
ATOM	1157	C	PRO B	11	-37.654	-12.904	106.964
ATOM	1158	O	PRO B	11	-37.746	-11.738	106.618
ATOM	1159	CB	PRO B	11	-35.714	-14.446	107.407
ATOM	1160	CG	PRO B	11	-35.249	-15.137	108.646
ATOM	1161	CD	PRO B	11	-36.534	-15.222	109.434
ATOM	1162	N	LEU B	12	-38.468	-13.866	106.550
ATOM	1163	CA	LEU B	12	-39.537	-13.663	105.588
ATOM	1164	C	LEU B	12	-40.755	-12.902	106.124
ATOM	1165	O	LEU B	12	-41.232	-13.145	107.241
ATOM	1166	CB	LEU B	12	-39.949	-15.020	105.025
ATOM	1167	CG	LEU B	12	-40.649	-14.977	103.683
ATOM	1168	CD1	LEU B	12	-39.917	-13.988	102.762
ATOM	1169	CD2	LEU B	12	-40.671	-16.377	103.116
ATOM	1170	H	LEU B	12	-38.326	-14.867	106.957
ATOM	1171	N	MET B	13	-41.265	-12.000	105.294
ATOM	1172	CA	MET B	13	-42.419	-11.160	105.619
ATOM	1173	C	MET B	13	-42.932	-10.505	104.319
ATOM	1174	O	MET B	13	-42.132	-10.124	103.459
ATOM	1175	CB	MET B	13	-41.975	-10.112	106.631
ATOM	1176	CG	MET B	13	-42.973	-8.981	106.829
ATOM	1177	SD	MET B	13	-42.271	-7.652	107.774
ATOM	1178	CE	MET B	13	-41.210	-8.320	109.039
ATOM	1179	H	MET B	13	-40.800	-11.880	104.315
ATOM	1180	N	VAL B	14	-44.252	-10.408	104.164
ATOM	1181	CA	VAL B	14	-44.860	-9.808	102.977
ATOM	1182	C	VAL B	14	-45.705	-8.629	103.392
ATOM	1183	O	VAL B	14	-46.313	-8.639	104.458
ATOM	1184	CB	VAL B	14	-45.815	-10.789	102.263
ATOM	1185	CG1	VAL B	14	-46.617	-10.071	101.196
ATOM	1186	CG2	VAL B	14	-45.045	-11.920	101.649
ATOM	1187	H	VAL B	14	-44.902	-10.789	104.952
ATOM	1188	N	ALA B	15	-45.700	-7.600	102.561
ATOM	1189	CA	ALA B	15	-46.517	-6.410	102.773
ATOM	1190	C	ALA B	15	-47.204	-6.230	101.411
ATOM	1191	O	ALA B	15	-46.668	-6.677	100.394
ATOM	1192	CB	ALA B	15	-45.679	-5.185	103.146
ATOM	1201	N	VAL B	16	-48.408	-5.665	101.390
ATOM	1202	CA	VAL B	16	-49.132	-5.484	100.131
ATOM	1203	C	VAL B	16	-50.010	-4.247	100.180
ATOM	1204	O	VAL B	16	-50.760	-4.035	101.123

ATOM	1205	CB	VAL B	16	-50.013	-6.690	99.819
ATOM	1206	CG1	VAL B	16	-50.949	-6.443	98.632
ATOM	1207	CG2	VAL B	16	-49.205	-7.936	99.452
ATOM	1208	H	VAL B	16	-48.863	-5.335	102.324
ATOM	1209	N	LEU B	17	-49.902	-3.416	99.162
ATOM	1210	CA	LEU B	17	-50.704	-2.221	99.110
ATOM	1211	C	LEU B	17	-51.592	-2.222	97.864
ATOM	1212	O	LEU B	17	-51.327	-2.910	96.876
ATOM	1213	CB	LEU B	17	-49.818	-0.974	99.179
ATOM	1214	CG	LEU B	17	-49.612	-0.291	100.540
ATOM	1215	CD1	LEU B	17	-49.366	-1.272	101.675
ATOM	1216	CD2	LEU B	17	-48.456	0.698	100.429
ATOM	1217	H	LEU B	17	-49.200	-3.634	98.357
ATOM	1218	N	ASP B	18	-52.660	-1.446	97.956
ATOM	1219	CA	ASP B	18	-53.639	-1.307	96.902
ATOM	1220	C	ASP B	18	-53.636	0.151	96.474
ATOM	1221	O	ASP B	18	-54.222	1.006	97.148
ATOM	1222	CB	ASP B	18	-55.022	-1.702	97.412
ATOM	1223	CG	ASP B	18	-56.053	-1.770	96.309
ATOM	1224	OD1	ASP B	18	-55.740	-1.401	95.158
ATOM	1225	OD2	ASP B	18	-57.185	-2.197	96.587
ATOM	1226	H	ASP B	18	-52.808	-0.881	98.877
ATOM	1227	N	ALA B	19	-53.030	0.403	95.314
ATOM	1228	CA	ALA B	19	-52.896	1.752	94.765
ATOM	1229	C	ALA B	19	-54.177	2.359	94.222
ATOM	1230	O	ALA B	19	-54.182	3.510	93.774
ATOM	1231	CB	ALA B	19	-51.815	1.776	93.685
ATOM	1232	H	ALA B	19	-52.615	-0.433	94.750
ATOM	1233	N	VAL B	20	-55.258	1.596	94.258
ATOM	1234	CA	VAL B	20	-56.523	2.087	93.728
ATOM	1235	C	VAL B	20	-57.338	2.819	94.790
ATOM	1236	O	VAL B	20	-57.869	3.905	94.525
ATOM	1237	CB	VAL B	20	-57.329	0.941	93.049
ATOM	1238	CG1	VAL B	20	-58.679	1.437	92.592
ATOM	1239	CG2	VAL B	20	-56.544	0.383	91.878
ATOM	1240	H	VAL B	20	-55.201	0.596	94.688
ATOM	1241	N	ARG B	21	-57.344	2.273	96.008
ATOM	1242	CA	ARG B	21	-58.077	2.894	97.112
ATOM	1243	C	ARG B	21	-57.195	3.357	98.299
ATOM	1244	O	ARG B	21	-57.680	3.480	99.423
ATOM	1245	CB	ARG B	21	-59.163	1.939	97.602
ATOM	1246	CG	ARG B	21	-59.825	1.120	96.502
ATOM	1247	CD	ARG B	21	-59.638	-0.372	96.761
ATOM	1248	NE	ARG B	21	-60.179	-0.803	98.057
ATOM	1249	CZ	ARG B	21	-60.250	-2.069	98.486
ATOM	1250	NH1	ARG B	21	-59.810	-3.084	97.741
ATOM	1251	NH2	ARG B	21	-60.804	-2.323	99.664
ATOM	1252	H	ARG B	21	-56.792	1.350	96.184
ATOM	1253	HE	ARG B	21	-60.555	-0.027	98.724
ATOM	1254	HH1	ARG B	21	-59.963	-4.021	98.278
ATOM	1255	HH1	ARG B	21	-59.367	-2.992	96.749
ATOM	1256	HH2	ARG B	21	-60.778	-3.396	99.854
ATOM	1257	HH2	ARG B	21	-61.221	-1.574	100.338
ATOM	1258	N	GLY B	22	-55.912	3.609	98.035
ATOM	1259	CA	GLY B	22	-54.976	4.053	99.059
ATOM	1260	C	GLY B	22	-55.031	3.182	100.301
ATOM	1261	O	GLY B	22	-54.941	3.657	101.417
ATOM	1262	H	GLY B	22	-55.551	3.480	97.015
ATOM	1263	N	SER B	23	-54.992	1.883	100.093
ATOM	1264	CA	SER B	23	-55.146	0.956	101.193
ATOM	1265	C	SER B	23	-54.202	-0.248	101.167
ATOM	1266	O	SER B	23	-53.777	-0.697	100.103
ATOM	1267	CB	SER B	23	-56.594	0.445	101.119

ATOM	1268	OG	SER B	23	-57.020	-0.198	102.306
ATOM	1269	H	SER B	23	-54.840	1.502	99.083
ATOM	1270	HG	SER B	23	-58.050	-0.535	102.186
ATOM	1271	N	PRO B	24	-53.778	-0.720	102.351
ATOM	1272	CA	PRO B	24	-52.903	-1.888	102.339
ATOM	1273	C	PRO B	24	-53.879	-3.012	102.009
ATOM	1274	O	PRO B	24	-54.947	-3.100	102.623
ATOM	1275	CB	PRO B	24	-52.433	-1.980	103.791
ATOM	1276	CG	PRO B	24	-53.562	-1.411	104.559
ATOM	1277	CD	PRO B	24	-53.985	-0.226	103.720
ATOM	1278	N	ALA B	25	-53.598	-3.752	100.943
ATOM	1279	CA	ALA B	25	-54.466	-4.859	100.540
ATOM	1280	C	ALA B	25	-54.527	-5.857	101.664
ATOM	1281	O	ALA B	25	-53.484	-6.246	102.191
ATOM	1282	CB	ALA B	25	-53.915	-5.532	99.323
ATOM	1283	H	ALA B	25	-52.706	-3.532	100.357
ATOM	1284	N	VAL B	26	-55.730	-6.242	102.072
ATOM	1285	CA	VAL B	26	-55.850	-7.214	103.148
ATOM	1286	C	VAL B	26	-56.350	-8.540	102.609
ATOM	1287	O	VAL B	26	-57.103	-8.581	101.636
ATOM	1288	CB	VAL B	26	-56.767	-6.752	104.321
ATOM	1289	CG1	VAL B	26	-56.789	-5.248	104.442
ATOM	1290	CG2	VAL B	26	-58.162	-7.326	104.189
ATOM	1291	H	VAL B	26	-56.624	-5.831	101.603
ATOM	1292	N	ASP B	27	-55.879	-9.621	103.228
ATOM	1293	CA	ASP B	27	-56.251	-10.993	102.886
ATOM	1294	C	ASP B	27	-55.812	-11.543	101.536
ATOM	1295	O	ASP B	27	-56.368	-12.542	101.050
ATOM	1296	CB	ASP B	27	-57.744	-11.211	103.110
ATOM	1297	CG	ASP B	27	-58.116	-11.095	104.572
ATOM	1298	OD1	ASP B	27	-57.388	-11.663	105.415
ATOM	1299	OD2	ASP B	27	-59.110	-10.411	104.888
ATOM	1300	H	ASP B	27	-55.169	-9.473	104.042
ATOM	1301	N	VAL B	28	-54.828	-10.898	100.915
ATOM	1302	CA	VAL B	28	-54.321	-11.422	99.651
ATOM	1303	C	VAL B	28	-53.679	-12.749	100.080
ATOM	1304	O	VAL B	28	-53.075	-12.840	101.165
ATOM	1305	CB	VAL B	28	-53.261	-10.487	98.991
ATOM	1306	CG1	VAL B	28	-52.589	-11.194	97.843
ATOM	1307	CG2	VAL B	28	-53.908	-9.219	98.486
ATOM	1308	H	VAL B	28	-54.405	-9.991	101.346
ATOM	1309	N	ALA B	29	-53.926	-13.800	99.310
ATOM	1310	CA	ALA B	29	-53.372	-15.102	99.634
ATOM	1311	C	ALA B	29	-51.893	-15.202	99.242
ATOM	1312	O	ALA B	29	-51.512	-14.886	98.112
ATOM	1313	CB	ALA B	29	-54.195	-16.211	98.966
ATOM	1314	H	ALA B	29	-54.552	-13.685	98.424
ATOM	1315	N	VAL B	30	-51.059	-15.603	100.197
ATOM	1316	CA	VAL B	30	-49.630	-15.775	99.953
ATOM	1317	C	VAL B	30	-49.240	-17.274	100.071
ATOM	1318	O	VAL B	30	-49.693	-17.971	100.989
ATOM	1319	CB	VAL B	30	-48.807	-14.925	100.943
ATOM	1320	CG1	VAL B	30	-47.329	-14.881	100.542
ATOM	1321	CG2	VAL B	30	-49.379	-13.504	101.010
ATOM	1322	H	VAL B	30	-51.453	-15.809	101.192
ATOM	1323	N	LYS B	31	-48.471	-17.767	99.094
ATOM	1324	CA	LYS B	31	-47.976	-19.153	99.050
ATOM	1325	C	LYS B	31	-46.466	-19.098	98.805
ATOM	1326	O	LYS B	31	-46.033	-18.587	97.773
ATOM	1327	CB	LYS B	31	-48.612	-19.944	97.892
ATOM	1328	CG	LYS B	31	-50.012	-20.452	98.108
ATOM	1329	CD	LYS B	31	-50.020	-21.937	98.448
ATOM	1330	CE	LYS B	31	-51.446	-22.475	98.491

ATOM	1331	NZ	LYS	B	31	-52.230	-22.191	97.226
ATOM	1332	H	LYS	B	31	-48.191	-17.099	98.280
ATOM	1333	HZ1	LYS	B	31	-53.236	-22.600	97.322
ATOM	1334	HZ2	LYS	B	31	-51.729	-22.655	96.376
ATOM	1335	HZ3	LYS	B	31	-52.289	-21.114	97.069
ATOM	1336	N	VAL	B	32	-45.675	-19.647	99.726
ATOM	1337	CA	VAL	B	32	-44.211	-19.651	99.611
ATOM	1338	C	VAL	B	32	-43.741	-21.049	99.193
ATOM	1339	O	VAL	B	32	-43.991	-22.004	99.932
ATOM	1340	CB	VAL	B	32	-43.572	-19.271	100.984
ATOM	1341	CG1	VAL	B	32	-42.129	-18.791	100.826
ATOM	1342	CG2	VAL	B	32	-44.424	-18.218	101.689
ATOM	1343	H	VAL	B	32	-46.134	-20.112	100.598
ATOM	1344	N	PHE	B	33	-43.103	-21.179	98.018
ATOM	1345	CA	PHE	B	33	-42.600	-22.490	97.488
ATOM	1346	C	PHE	B	33	-41.063	-22.613	97.474
ATOM	1347	O	PHE	B	33	-40.374	-21.809	96.853
ATOM	1348	CB	PHE	B	33	-43.086	-22.742	96.055
ATOM	1349	CG	PHE	B	33	-44.566	-22.931	95.934
ATOM	1350	CD1	PHE	B	33	-45.258	-23.735	96.840
ATOM	1351	CD2	PHE	B	33	-45.274	-22.301	94.927
ATOM	1352	CE1	PHE	B	33	-46.653	-23.897	96.744
ATOM	1353	CE2	PHE	B	33	-46.664	-22.453	94.823
ATOM	1354	CZ	PHE	B	33	-47.351	-23.252	95.732
ATOM	1355	H	PHE	B	33	-42.944	-20.285	97.416
ATOM	1356	N	LYS	B	34	-40.538	-23.670	98.078
ATOM	1357	CA	LYS	B	34	-39.091	-23.859	98.160
ATOM	1358	C	LYS	B	34	-38.545	-24.944	97.205
ATOM	1359	O	LYS	B	34	-39.077	-26.047	97.141
ATOM	1360	CB	LYS	B	34	-38.696	-24.128	99.625
ATOM	1361	CG	LYS	B	34	-37.262	-24.570	99.795
ATOM	1362	CD	LYS	B	34	-36.765	-24.427	101.203
ATOM	1363	CE	LYS	B	34	-35.292	-24.042	101.159
ATOM	1364	NZ	LYS	B	34	-34.730	-23.719	102.485
ATOM	1365	H	LYS	B	34	-41.199	-24.414	98.523
ATOM	1366	HZ1	LYS	B	34	-33.678	-23.454	102.379
ATOM	1367	HZ2	LYS	B	34	-34.823	-24.585	103.140
ATOM	1368	HZ3	LYS	B	34	-35.275	-22.878	102.916
ATOM	1369	N	LYS	B	35	-37.496	-24.597	96.458
ATOM	1370	CA	LYS	B	35	-36.871	-25.488	95.478
ATOM	1371	C	LYS	B	35	-36.138	-26.641	96.141
ATOM	1372	O	LYS	B	35	-35.232	-26.439	96.948
ATOM	1373	CB	LYS	B	35	-35.889	-24.703	94.618
ATOM	1374	CG	LYS	B	35	-35.991	-24.946	93.126
ATOM	1375	CD	LYS	B	35	-35.536	-26.333	92.708
ATOM	1376	CE	LYS	B	35	-34.087	-26.596	93.090
ATOM	1377	NZ	LYS	B	35	-33.163	-25.515	92.684
ATOM	1378	H	LYS	B	35	-37.079	-23.598	96.585
ATOM	1379	HZ1	LYS	B	35	-32.148	-25.771	92.989
ATOM	1380	HZ2	LYS	B	35	-33.462	-24.582	93.163
ATOM	1381	HZ3	LYS	B	35	-33.198	-25.394	91.601
ATOM	1382	N	THR	B	36	-36.500	-27.847	95.717
ATOM	1383	CA	THR	B	36	-35.959	-29.103	96.229
ATOM	1384	C	THR	B	36	-34.572	-29.429	95.681
ATOM	1385	O	THR	B	36	-34.012	-28.702	94.879
ATOM	1386	CB	THR	B	36	-36.869	-30.285	95.831
ATOM	1387	OG1	THR	B	36	-36.595	-30.661	94.475
ATOM	1388	CG2	THR	B	36	-38.326	-29.912	95.944
ATOM	1389	H	THR	B	36	-37.253	-27.903	94.930
ATOM	1390	HG1	THR	B	36	-37.237	-31.496	94.193
ATOM	1391	N	ALA	B	37	-34.065	-30.590	96.060
ATOM	1392	CA	ALA	B	37	-32.775	-31.029	95.570
ATOM	1393	C	ALA	B	37	-32.930	-31.373	94.083

ATOM	1394	O	ALA	B	37	-32.242	-30.814	93.246
ATOM	1395	CB	ALA	B	37	-32.293	-32.251	96.373
ATOM	1396	H	ALA	B	37	-34.623	-31.224	96.748
ATOM	1397	N	ASP	B	38	-33.884	-32.245	93.758
ATOM	1398	CA	ASP	B	38	-34.117	-32.659	92.368
ATOM	1399	C	ASP	B	38	-34.376	-31.491	91.419
ATOM	1400	O	ASP	B	38	-34.151	-31.607	90.219
ATOM	1401	CB	ASP	B	38	-35.291	-33.651	92.295
ATOM	1402	CG	ASP	B	38	-35.570	-34.152	90.865
ATOM	1403	OD1	ASP	B	38	-36.359	-33.508	90.129
ATOM	1404	OD2	ASP	B	38	-35.017	-35.210	90.486
ATOM	1405	H	ASP	B	38	-34.509	-32.663	94.547
ATOM	1406	N	GLY	B	39	-34.854	-30.375	91.960
ATOM	1407	CA	GLY	B	39	-35.151	-29.223	91.128
ATOM	1408	C	GLY	B	39	-36.643	-28.965	90.964
ATOM	1409	O	GLY	B	39	-37.079	-28.419	89.939
ATOM	1410	H	GLY	B	39	-35.025	-30.326	93.035
ATOM	1411	N	SER	B	40	-37.428	-29.398	91.951
ATOM	1412	CA	SER	B	40	-38.874	-29.204	91.938
ATOM	1413	C	SER	B	40	-39.224	-28.243	93.078
ATOM	1414	O	SER	B	40	-38.324	-27.698	93.703
ATOM	1415	CB	SER	B	40	-39.600	-30.549	92.088
ATOM	1416	OG	SER	B	40	-39.341	-31.172	93.331
ATOM	1417	H	SER	B	40	-36.975	-29.917	92.796
ATOM	1418	HG	SER	B	40	-39.879	-32.118	93.383
ATOM	1419	N	TRP	B	41	-40.510	-28.017	93.335
ATOM	1420	CA	TRP	B	41	-40.928	-27.111	94.402
ATOM	1421	C	TRP	B	41	-41.803	-27.827	95.414
ATOM	1422	O	TRP	B	41	-42.638	-28.652	95.044
ATOM	1423	CB	TRP	B	41	-41.758	-25.950	93.852
ATOM	1424	CG	TRP	B	41	-41.068	-25.052	92.894
ATOM	1425	CD1	TRP	B	41	-41.201	-25.054	91.547
ATOM	1426	CD2	TRP	B	41	-40.137	-24.016	93.207
ATOM	1427	NE1	TRP	B	41	-40.405	-24.088	90.989
ATOM	1428	CE2	TRP	B	41	-39.738	-23.435	91.987
ATOM	1429	CE3	TRP	B	41	-39.601	-23.522	94.401
ATOM	1430	CZ2	TRP	B	41	-38.822	-22.388	91.921
ATOM	1431	CZ3	TRP	B	41	-38.696	-22.482	94.338
ATOM	1432	CH2	TRP	B	41	-38.313	-21.927	93.104
ATOM	1433	H	TRP	B	41	-41.269	-28.519	92.736
ATOM	1434	HE1	TRP	B	41	-40.318	-23.875	89.924
ATOM	1435	N	GLU	B	42	-41.619	-27.496	96.686
ATOM	1436	CA	GLU	B	42	-42.420	-28.059	97.765
ATOM	1437	C	GLU	B	42	-43.012	-26.855	98.505
ATOM	1438	O	GLU	B	42	-42.567	-25.720	98.283
ATOM	1439	CB	GLU	B	42	-41.560	-28.924	98.710
ATOM	1440	CG	GLU	B	42	-40.317	-28.251	99.314
ATOM	1441	CD	GLU	B	42	-40.194	-28.443	100.841
ATOM	1442	OE1	GLU	B	42	-40.708	-29.452	101.384
ATOM	1443	OE2	GLU	B	42	-39.581	-27.569	101.504
ATOM	1444	H	GLU	B	42	-40.840	-26.774	96.932
ATOM	1445	N	PRO	B	43	-44.106	-27.051	99.267
ATOM	1446	CA	PRO	B	43	-44.687	-25.916	99.994
ATOM	1447	C	PRO	B	43	-43.745	-25.527	101.129
ATOM	1448	O	PRO	B	43	-43.101	-26.394	101.715
ATOM	1449	CB	PRO	B	43	-45.989	-26.497	100.548
ATOM	1450	CG	PRO	B	43	-46.350	-27.562	99.542
ATOM	1451	CD	PRO	B	43	-45.010	-28.214	99.307
ATOM	1452	N	PHE	B	44	-43.626	-24.238	101.420
ATOM	1453	CA	PHE	B	44	-42.757	-23.810	102.504
ATOM	1454	C	PHE	B	44	-43.529	-23.080	103.576
ATOM	1455	O	PHE	B	44	-43.171	-23.122	104.746
ATOM	1456	CB	PHE	B	44	-41.619	-22.919	102.009

ATOM	1457	CG	PHE	B	44	-40.583	-22.635	103.069
ATOM	1458	CD1	PHE	B	44	-39.754	-23.656	103.541
ATOM	1459	CD2	PHE	B	44	-40.475	-21.370	103.639
ATOM	1460	CE1	PHE	B	44	-38.846	-23.418	104.580
ATOM	1461	CE2	PHE	B	44	-39.565	-21.122	104.678
ATOM	1462	CZ	PHE	B	44	-38.752	-22.142	105.149
ATOM	1463	H	PHE	B	44	-44.182	-23.498	100.845
ATOM	1464	N	ALA	B	45	-44.563	-22.367	103.166
ATOM	1465	CA	ALA	B	45	-45.391	-21.625	104.103
ATOM	1466	C	ALA	B	45	-46.603	-21.108	103.340
ATOM	1467	O	ALA	B	45	-46.581	-21.041	102.104
ATOM	1468	CB	ALA	B	45	-44.600	-20.469	104.706
ATOM	1469	H	ALA	B	45	-44.799	-22.334	102.103
ATOM	1470	N	SER	B	46	-47.659	-20.756	104.069
ATOM	1471	CA	SER	B	46	-48.881	-20.255	103.458
ATOM	1472	C	SER	B	46	-49.602	-19.344	104.457
ATOM	1473	O	SER	B	46	-49.447	-19.517	105.675
ATOM	1474	CB	SER	B	46	-49.775	-21.436	103.081
ATOM	1475	OG	SER	B	46	-49.029	-22.453	102.415
ATOM	1476	H	SER	B	46	-47.606	-20.843	105.154
ATOM	1477	HG	SER	B	46	-49.691	-23.280	102.159
ATOM	1478	N	GLY	B	47	-50.363	-18.373	103.944
ATOM	1479	CA	GLY	B	47	-51.087	-17.448	104.809
ATOM	1480	C	GLY	B	47	-51.846	-16.344	104.093
ATOM	1481	O	GLY	B	47	-51.666	-16.132	102.899
ATOM	1482	H	GLY	B	47	-50.443	-18.270	102.862
ATOM	1483	N	LYS	B	48	-52.761	-15.701	104.806
ATOM	1484	CA	LYS	B	48	-53.571	-14.595	104.276
ATOM	1485	C	LYS	B	48	-52.980	-13.259	104.752
ATOM	1486	O	LYS	B	48	-52.575	-13.146	105.912
ATOM	1487	CB	LYS	B	48	-55.015	-14.699	104.800
ATOM	1488	CG	LYS	B	48	-55.945	-15.546	103.969
ATOM	1489	CD	LYS	B	48	-57.363	-15.554	104.535
ATOM	1490	CE	LYS	B	48	-57.525	-16.496	105.746
ATOM	1491	NZ	LYS	B	48	-56.923	-15.987	107.032
ATOM	1492	H	LYS	B	48	-52.920	-16.009	105.839
ATOM	1493	HZ1	LYS	B	48	-57.088	-16.718	107.824
ATOM	1494	HZ2	LYS	B	48	-57.394	-15.043	107.304
ATOM	1495	HZ3	LYS	B	48	-55.853	-15.833	106.896
ATOM	1496	N	THR	B	49	-52.935	-12.252	103.883
ATOM	1497	CA	THR	B	49	-52.399	-10.962	104.308
ATOM	1498	C	THR	B	49	-53.323	-10.424	105.399
ATOM	1499	O	THR	B	49	-54.549	-10.458	105.260
ATOM	1500	CB	THR	B	49	-52.365	-9.930	103.189
ATOM	1501	OG1	THR	B	49	-51.811	-10.501	101.996
ATOM	1502	CG2	THR	B	49	-51.524	-8.752	103.611
ATOM	1503	H	THR	B	49	-53.294	-12.388	102.863
ATOM	1504	HG1	THR	B	49	-51.795	-9.749	101.207
ATOM	1505	N	ALA	B	50	-52.734	-9.954	106.493
ATOM	1506	CA	ALA	B	50	-53.511	-9.426	107.606
ATOM	1507	C	ALA	B	50	-54.245	-8.144	107.240
ATOM	1508	O	ALA	B	50	-54.157	-7.668	106.134
ATOM	1509	CB	ALA	B	50	-52.611	-9.225	108.863
ATOM	1510	H	ALA	B	50	-51.646	-9.963	106.558
ATOM	1511	N	GLU	B	51	-54.905	-7.540	108.213
ATOM	1512	CA	GLU	B	51	-55.696	-6.339	107.975
ATOM	1513	C	GLU	B	51	-54.915	-5.047	107.718
ATOM	1514	O	GLU	B	51	-55.511	-4.008	107.441
ATOM	1515	CB	GLU	B	51	-56.673	-6.148	109.151
ATOM	1516	CG	GLU	B	51	-57.652	-7.335	109.388
ATOM	1517	CD	GLU	B	51	-59.080	-7.056	108.893
ATOM	1518	OE1	GLU	B	51	-59.597	-5.952	109.182
ATOM	1519	OE2	GLU	B	51	-59.683	-7.935	108.226

ATOM	1520	H	GLU	B	51	-54.855	-7.949	109.221
ATOM	1521	N	SER	B	52	-53.590	-5.109	107.773
ATOM	1522	CA	SER	B	52	-52.790	-3.904	107.581
ATOM	1523	C	SER	B	52	-51.774	-4.015	106.482
ATOM	1524	O	SER	B	52	-50.854	-3.207	106.412
ATOM	1525	CB	SER	B	52	-52.079	-3.506	108.882
ATOM	1526	OG	SER	B	52	-50.960	-4.341	109.125
ATOM	1527	H	SER	B	52	-53.098	-6.063	107.963
ATOM	1528	HG	SER	B	52	-50.474	-4.037	110.052
ATOM	1529	N	GLY	B	53	-51.917	-5.047	105.662
ATOM	1530	CA	GLY	B	53	-51.005	-5.245	104.555
ATOM	1531	C	GLY	B	53	-49.879	-6.205	104.840
ATOM	1532	O	GLY	B	53	-49.409	-6.900	103.940
ATOM	1533	H	GLY	B	53	-52.731	-5.754	105.823
ATOM	1534	N	GLU	B	54	-49.451	-6.264	106.089
ATOM	1535	CA	GLU	B	54	-48.367	-7.154	106.463
ATOM	1536	C	GLU	B	54	-48.769	-8.604	106.734
ATOM	1537	O	GLU	B	54	-49.895	-8.891	107.130
ATOM	1538	CB	GLU	B	54	-47.642	-6.592	107.678
ATOM	1539	CG	GLU	B	54	-46.755	-5.420	107.373
ATOM	1540	CD	GLU	B	54	-46.498	-4.572	108.596
ATOM	1541	OE1	GLU	B	54	-45.786	-5.016	109.518
ATOM	1542	OE2	GLU	B	54	-47.020	-3.446	108.646
ATOM	1543	H	GLU	B	54	-49.917	-5.636	106.847
ATOM	1544	N	LEU	B	55	-47.815	-9.505	106.530
ATOM	1545	CA	LEU	B	55	-47.987	-10.929	106.772
ATOM	1546	C	LEU	B	55	-46.663	-11.414	107.341
ATOM	1547	O	LEU	B	55	-45.727	-11.674	106.588
ATOM	1548	CB	LEU	B	55	-48.255	-11.678	105.462
ATOM	1549	CG	LEU	B	55	-48.145	-13.211	105.555
ATOM	1550	CD1	LEU	B	55	-49.168	-13.779	106.537
ATOM	1551	CD2	LEU	B	55	-48.349	-13.795	104.203
ATOM	1552	H	LEU	B	55	-46.850	-9.158	106.162
ATOM	1553	N	HIS	B	56	-46.540	-11.475	108.660
ATOM	1554	CA	HIS	B	56	-45.283	-11.939	109.233
ATOM	1555	C	HIS	B	56	-45.475	-13.209	110.043
ATOM	1556	O	HIS	B	56	-46.605	-13.692	110.177
ATOM	1557	CB	HIS	B	56	-44.524	-10.844	110.014
ATOM	1558	CG	HIS	B	56	-45.400	-9.799	110.628
ATOM	1559	ND1	HIS	B	56	-45.915	-8.740	109.911
ATOM	1560	CD2	HIS	B	56	-45.812	-9.621	111.909
ATOM	1561	CE1	HIS	B	56	-46.603	-7.955	110.719
ATOM	1562	NE2	HIS	B	56	-46.555	-8.466	111.938
ATOM	1563	H	HIS	B	56	-47.368	-11.183	109.307
ATOM	1564	HD1	HIS	B	56	-45.775	-8.578	108.842
ATOM	1565	N	GLY	B	57	-44.376	-13.750	110.564
ATOM	1566	CA	GLY	B	57	-44.452	-14.987	111.311
ATOM	1567	C	GLY	B	57	-44.733	-16.080	110.292
ATOM	1568	O	GLY	B	57	-45.382	-17.086	110.584
ATOM	1569	H	GLY	B	57	-43.413	-13.258	110.427
ATOM	1570	N	LEU	B	58	-44.258	-15.848	109.069
ATOM	1571	CA	LEU	B	58	-44.443	-16.790	107.981
ATOM	1572	C	LEU	B	58	-43.596	-18.061	108.189
ATOM	1573	O	LEU	B	58	-44.126	-19.177	108.244
ATOM	1574	CB	LEU	B	58	-44.098	-16.120	106.654
ATOM	1575	CG	LEU	B	58	-45.275	-15.996	105.699
ATOM	1576	CD1	LEU	B	58	-44.743	-15.622	104.337
ATOM	1577	CD2	LEU	B	58	-46.032	-17.317	105.603
ATOM	1578	H	LEU	B	58	-43.713	-14.922	108.880
ATOM	1579	N	THR	B	59	-42.282	-17.886	108.295
ATOM	1580	CA	THR	B	59	-41.386	-19.012	108.505
ATOM	1581	C	THR	B	59	-40.773	-18.854	109.884
ATOM	1582	O	THR	B	59	-41.041	-17.870	110.592

ATOM	1583	CB	THR	B	59	-40.246	-19.035	107.478
ATOM	1584	OG1	THR	B	59	-39.222	-18.112	107.879
ATOM	1585	CG2	THR	B	59	-40.764	-18.628	106.108
ATOM	1586	H	THR	B	59	-41.870	-16.879	108.226
ATOM	1587	HG1	THR	B	59	-38.412	-18.128	107.150
ATOM	1588	N	THR	B	60	-39.934	-19.818	110.249
ATOM	1589	CA	THR	B	60	-39.250	-19.803	111.538
ATOM	1590	C	THR	B	60	-37.845	-19.318	111.186
ATOM	1591	O	THR	B	60	-37.295	-19.714	110.151
ATOM	1592	CB	THR	B	60	-39.228	-21.246	112.200
ATOM	1593	OG1	THR	B	60	-38.102	-22.002	111.731
ATOM	1594	CG2	THR	B	60	-40.503	-22.029	111.852
ATOM	1595	H	THR	B	60	-39.752	-20.647	109.565
ATOM	1596	HG1	THR	B	60	-38.107	-22.987	112.197
ATOM	1597	N	ASP	B	61	-37.250	-18.486	112.033
ATOM	1598	CA	ASP	B	61	-35.908	-17.976	111.755
ATOM	1599	C	ASP	B	61	-34.865	-19.096	111.584
ATOM	1600	O	ASP	B	61	-33.679	-18.817	111.443
ATOM	1601	CB	ASP	B	61	-35.474	-16.998	112.858
ATOM	1602	CG	ASP	B	61	-34.418	-15.993	112.388
ATOM	1603	OD1	ASP	B	61	-33.554	-16.360	111.569
ATOM	1604	OD2	ASP	B	61	-34.437	-14.832	112.856
ATOM	1605	H	ASP	B	61	-37.767	-18.180	112.942
ATOM	1606	N	GLU	B	62	-35.298	-20.356	111.620
ATOM	1607	CA	GLU	B	62	-34.390	-21.487	111.454
ATOM	1608	C	GLU	B	62	-34.897	-22.512	110.451
ATOM	1609	O	GLU	B	62	-34.188	-23.454	110.122
ATOM	1610	CB	GLU	B	62	-34.078	-22.160	112.800
ATOM	1611	CG	GLU	B	62	-32.699	-21.778	113.399
ATOM	1612	CD	GLU	B	62	-32.332	-22.576	114.665
ATOM	1613	OE1	GLU	B	62	-32.303	-23.834	114.621
ATOM	1614	OE2	GLU	B	62	-32.057	-21.934	115.709
ATOM	1615	H	GLU	B	62	-36.359	-20.547	111.776
ATOM	1616	N	LYS	B	63	-36.139	-22.364	110.008
ATOM	1617	CA	LYS	B	63	-36.691	-23.275	109.006
ATOM	1618	C	LYS	B	63	-36.415	-22.607	107.668
ATOM	1619	O	LYS	B	63	-36.330	-23.250	106.617
ATOM	1620	CB	LYS	B	63	-38.197	-23.481	109.202
ATOM	1621	CG	LYS	B	63	-38.838	-24.393	108.156
ATOM	1622	CD	LYS	B	63	-40.242	-24.855	108.554
ATOM	1623	CE	LYS	B	63	-40.210	-25.864	109.710
ATOM	1624	NZ	LYS	B	63	-41.539	-26.513	109.944
ATOM	1625	H	LYS	B	63	-36.757	-21.555	110.397
ATOM	1626	HZ1	LYS	B	63	-41.459	-27.217	110.772
ATOM	1627	HZ2	LYS	B	63	-41.847	-27.045	109.043
ATOM	1628	HZ3	LYS	B	63	-42.279	-25.750	110.187
ATOM	1629	N	PHE	B	64	-36.252	-21.297	107.737
ATOM	1630	CA	PHE	B	64	-35.960	-20.483	106.578
ATOM	1631	C	PHE	B	64	-34.456	-20.603	106.339
ATOM	1632	O	PHE	B	64	-33.684	-19.746	106.756
ATOM	1633	CB	PHE	B	64	-36.351	-19.038	106.887
ATOM	1634	CG	PHE	B	64	-36.101	-18.086	105.764
ATOM	1635	CD1	PHE	B	64	-36.948	-18.053	104.662
ATOM	1636	CD2	PHE	B	64	-35.052	-17.175	105.839
ATOM	1637	CE1	PHE	B	64	-36.757	-17.118	103.653
ATOM	1638	CE2	PHE	B	64	-34.855	-16.241	104.841
ATOM	1639	CZ	PHE	B	64	-35.714	-16.210	103.744
ATOM	1640	H	PHE	B	64	-36.342	-20.809	108.708
ATOM	1641	N	THR	B	65	-34.040	-21.707	105.732
ATOM	1642	CA	THR	B	65	-32.628	-21.919	105.453
ATOM	1643	C	THR	B	65	-32.355	-21.626	103.982
ATOM	1644	O	THR	B	65	-33.278	-21.381	103.216
ATOM	1645	CB	THR	B	65	-32.159	-23.355	105.863

ATOM	1646	OG1	THR	B	65	-30.730	-23.456	105.728
ATOM	1647	CG2	THR	B	65	-32.868	-24.449	105.026
ATOM	1648	H	THR	B	65	-34.766	-22.466	105.439
ATOM	1649	HG1	THR	B	65	-30.408	-24.457	106.014
ATOM	1650	N	GLU	B	66	-31.075	-21.603	103.626
ATOM	1651	CA	GLU	B	66	-30.596	-21.312	102.276
ATOM	1652	C	GLU	B	66	-31.405	-21.963	101.152
ATOM	1653	O	GLU	B	66	-31.854	-23.106	101.284
ATOM	1654	CB	GLU	B	66	-29.118	-21.728	102.181
ATOM	1655	CG	GLU	B	66	-28.493	-21.747	100.775
ATOM	1656	CD	GLU	B	66	-27.017	-22.149	100.795
ATOM	1657	OE1	GLU	B	66	-26.178	-21.302	101.191
ATOM	1658	OE2	GLU	B	66	-26.696	-23.305	100.419
ATOM	1659	H	GLU	B	66	-30.331	-21.816	104.394
ATOM	1660	N	GLY	B	67	-31.621	-21.222	100.067
ATOM	1661	CA	GLY	B	67	-32.346	-21.794	98.940
ATOM	1662	C	GLY	B	67	-33.063	-20.846	97.988
ATOM	1663	O	GLY	B	67	-33.047	-19.623	98.182
ATOM	1664	H	GLY	B	67	-31.258	-20.196	100.021
ATOM	1665	N	VAL	B	68	-33.655	-21.424	96.937
ATOM	1666	CA	VAL	B	68	-34.426	-20.671	95.951
ATOM	1667	C	VAL	B	68	-35.866	-20.639	96.470
ATOM	1668	O	VAL	B	68	-36.341	-21.619	97.047
ATOM	1669	CB	VAL	B	68	-34.404	-21.331	94.573
ATOM	1670	CG1	VAL	B	68	-35.047	-20.419	93.553
ATOM	1671	CG2	VAL	B	68	-32.985	-21.648	94.157
ATOM	1672	H	VAL	B	68	-33.559	-22.503	96.811
ATOM	1673	N	TYR	B	69	-36.537	-19.504	96.304
ATOM	1674	CA	TYR	B	69	-37.901	-19.324	96.780
ATOM	1675	C	TYR	B	69	-38.793	-18.707	95.746
ATOM	1676	O	TYR	B	69	-38.329	-18.104	94.779
ATOM	1677	CB	TYR	B	69	-37.916	-18.421	98.003
ATOM	1678	CG	TYR	B	69	-37.442	-19.130	99.217
ATOM	1679	CD1	TYR	B	69	-36.087	-19.251	99.498
ATOM	1680	CD2	TYR	B	69	-38.352	-19.733	100.066
ATOM	1681	CE1	TYR	B	69	-35.663	-19.970	100.604
ATOM	1682	CE2	TYR	B	69	-37.936	-20.448	101.166
ATOM	1683	CZ	TYR	B	69	-36.607	-20.566	101.424
ATOM	1684	OH	TYR	B	69	-36.255	-21.321	102.480
ATOM	1685	H	TYR	B	69	-36.047	-18.676	95.791
ATOM	1686	HH	TYR	B	69	-37.151	-21.687	102.981
ATOM	1687	N	ARG	B	70	-40.086	-18.805	95.995
ATOM	1688	CA	ARG	B	70	-41.075	-18.260	95.083
ATOM	1689	C	ARG	B	70	-42.335	-17.922	95.848
ATOM	1690	O	ARG	B	70	-43.068	-18.830	96.276
ATOM	1691	CB	ARG	B	70	-41.378	-19.283	94.009
ATOM	1692	CG	ARG	B	70	-42.574	-18.900	93.164
ATOM	1693	CD	ARG	B	70	-42.945	-19.990	92.179
ATOM	1694	NE	ARG	B	70	-44.377	-20.276	92.160
ATOM	1695	CZ	ARG	B	70	-44.899	-21.327	91.536
ATOM	1696	NH1	ARG	B	70	-44.112	-22.200	90.894
ATOM	1697	NH2	ARG	B	70	-46.207	-21.590	91.489
ATOM	1698	H	ARG	B	70	-40.419	-19.306	96.904
ATOM	1699	HE	ARG	B	70	-45.050	-19.596	92.682
ATOM	1700	HH1	ARG	B	70	-44.724	-22.984	90.451
ATOM	1701	HH1	ARG	B	70	-43.026	-22.135	90.827
ATOM	1702	HH2	ARG	B	70	-46.374	-22.504	90.919
ATOM	1703	HH2	ARG	B	70	-46.988	-20.985	91.951
ATOM	1704	N	VAL	B	71	-42.546	-16.622	96.046
ATOM	1705	CA	VAL	B	71	-43.701	-16.096	96.751
ATOM	1706	C	VAL	B	71	-44.784	-15.843	95.701
ATOM	1707	O	VAL	B	71	-44.548	-15.147	94.722
ATOM	1708	CB	VAL	B	71	-43.355	-14.744	97.434

ATOM	1709	CG1	VAL	B	71	-44.575	-14.143	98.122
ATOM	1710	CG2	VAL	B	71	-42.227	-14.919	98.404
ATOM	1711	H	VAL	B	71	-41.813	-15.916	95.658
ATOM	1712	N	GLU	B	72	-45.954	-16.440	95.883
ATOM	1713	CA	GLU	B	72	-47.058	-16.232	94.956
ATOM	1714	C	GLU	B	72	-48.231	-15.548	95.686
ATOM	1715	O	GLU	B	72	-48.784	-16.097	96.650
ATOM	1716	CB	GLU	B	72	-47.514	-17.567	94.382
ATOM	1717	CG	GLU	B	72	-48.643	-17.423	93.383
ATOM	1718	CD	GLU	B	72	-49.354	-18.730	93.070
ATOM	1719	OE1	GLU	B	72	-49.071	-19.764	93.727
ATOM	1720	OE2	GLU	B	72	-50.210	-18.715	92.162
ATOM	1721	H	GLU	B	72	-46.092	-17.099	96.740
ATOM	1722	N	LEU	B	73	-48.548	-14.320	95.288
ATOM	1723	CA	LEU	B	73	-49.657	-13.578	95.892
ATOM	1724	C	LEU	B	73	-50.835	-13.666	94.923
ATOM	1725	O	LEU	B	73	-50.765	-13.179	93.790
ATOM	1726	CB	LEU	B	73	-49.273	-12.114	96.120
ATOM	1727	CG	LEU	B	73	-47.992	-11.856	96.910
ATOM	1728	CD1	LEU	B	73	-47.283	-10.650	96.327
ATOM	1729	CD2	LEU	B	73	-48.304	-11.629	98.367
ATOM	1730	H	LEU	B	73	-47.968	-13.854	94.491
ATOM	1731	N	ASP	B	74	-51.887	-14.355	95.344
ATOM	1732	CA	ASP	B	74	-53.070	-14.538	94.520
ATOM	1733	C	ASP	B	74	-53.780	-13.206	94.330
ATOM	1734	O	ASP	B	74	-54.860	-12.968	94.875
ATOM	1735	CB	ASP	B	74	-53.998	-15.569	95.167
ATOM	1736	CG	ASP	B	74	-55.328	-15.713	94.437
ATOM	1737	OD1	ASP	B	74	-55.412	-15.429	93.216
ATOM	1738	OD2	ASP	B	74	-56.301	-16.116	95.103
ATOM	1739	H	ASP	B	74	-51.864	-14.797	96.340
ATOM	1740	N	THR	B	75	-53.196	-12.367	93.491
ATOM	1741	CA	THR	B	75	-53.724	-11.044	93.226
ATOM	1742	C	THR	B	75	-55.105	-10.983	92.545
ATOM	1743	O	THR	B	75	-55.917	-10.110	92.860
ATOM	1744	CB	THR	B	75	-52.679	-10.262	92.429
ATOM	1745	OG1	THR	B	75	-52.202	-11.073	91.348
ATOM	1746	CG2	THR	B	75	-51.503	-9.924	93.327
ATOM	1747	H	THR	B	75	-52.286	-12.681	92.980
ATOM	1748	HG1	THR	B	75	-51.457	-10.517	90.778
ATOM	1749	N	LYS	B	76	-55.384	-11.971	91.688
ATOM	1750	CA	LYS	B	76	-56.632	-12.066	90.921
ATOM	1751	C	LYS	B	76	-57.929	-12.255	91.696
ATOM	1752	O	LYS	B	76	-58.949	-11.672	91.346
ATOM	1753	CB	LYS	B	76	-56.514	-13.201	89.918
ATOM	1754	CG	LYS	B	76	-57.696	-13.386	88.984
ATOM	1755	CD	LYS	B	76	-57.564	-14.765	88.370
ATOM	1756	CE	LYS	B	76	-58.425	-14.958	87.147
ATOM	1757	NZ	LYS	B	76	-58.201	-16.340	86.599
ATOM	1758	H	LYS	B	76	-54.638	-12.753	91.550
ATOM	1759	HZ1	LYS	B	76	-58.821	-16.486	85.714
ATOM	1760	HZ2	LYS	B	76	-58.468	-17.078	87.355
ATOM	1761	HZ3	LYS	B	76	-57.151	-16.459	86.331
ATOM	1762	N	SER	B	77	-57.929	-13.103	92.714
ATOM	1763	CA	SER	B	77	-59.168	-13.300	93.448
ATOM	1764	C	SER	B	77	-59.430	-12.055	94.266
ATOM	1765	O	SER	B	77	-60.578	-11.709	94.505
ATOM	1766	CB	SER	B	77	-59.119	-14.539	94.322
ATOM	1767	OG	SER	B	77	-58.134	-14.377	95.310
ATOM	1768	H	SER	B	77	-57.022	-13.637	92.995
ATOM	1769	HG	SER	B	77	-58.100	-15.268	95.938
ATOM	1770	N	TYR	B	78	-58.357	-11.371	94.656
ATOM	1771	CA	TYR	B	78	-58.432	-10.117	95.414

ATOM	1772	C	TYR	B	78	-59.209	-9.087	94.599
ATOM	1773	O	TYR	B	78	-60.187	-8.526	95.081
ATOM	1774	CB	TYR	B	78	-57.030	-9.575	95.686
ATOM	1775	CG	TYR	B	78	-56.996	-8.186	96.257
ATOM	1776	CD1	TYR	B	78	-57.018	-7.045	95.438
ATOM	1777	CD2	TYR	B	78	-56.904	-7.997	97.613
ATOM	1778	CE1	TYR	B	78	-56.943	-5.754	95.984
ATOM	1779	CE2	TYR	B	78	-56.826	-6.742	98.151
ATOM	1780	CZ	TYR	B	78	-56.839	-5.631	97.357
ATOM	1781	OH	TYR	B	78	-56.693	-4.421	97.997
ATOM	1782	H	TYR	B	78	-57.373	-11.763	94.400
ATOM	1783	HH	TYR	B	78	-56.634	-4.584	99.073
ATOM	1784	N	TRP	B	79	-58.787	-8.849	93.355
ATOM	1785	CA	TRP	B	79	-59.481	-7.874	92.530
ATOM	1786	C	TRP	B	79	-60.831	-8.392	92.047
ATOM	1787	O	TRP	B	79	-61.767	-7.617	91.856
ATOM	1788	CB	TRP	B	79	-58.643	-7.476	91.327
ATOM	1789	CG	TRP	B	79	-57.364	-6.809	91.632
ATOM	1790	CD1	TRP	B	79	-56.120	-7.308	91.435
ATOM	1791	CD2	TRP	B	79	-57.194	-5.478	92.121
ATOM	1792	NE1	TRP	B	79	-55.177	-6.377	91.761
ATOM	1793	CE2	TRP	B	79	-55.804	-5.236	92.182
ATOM	1794	CE3	TRP	B	79	-58.082	-4.454	92.504
ATOM	1795	CZ2	TRP	B	79	-55.273	-4.017	92.610
ATOM	1796	CZ3	TRP	B	79	-57.560	-3.250	92.927
ATOM	1797	CH2	TRP	B	79	-56.158	-3.040	92.973
ATOM	1798	H	TRP	B	79	-57.923	-9.383	92.960
ATOM	1799	HE1	TRP	B	79	-54.098	-6.519	91.697
ATOM	1800	N	LYS	B	80	-60.931	-9.701	91.841
ATOM	1801	CA	LYS	B	80	-62.178	-10.310	91.375
ATOM	1802	C	LYS	B	80	-63.273	-10.161	92.428
ATOM	1803	O	LYS	B	80	-64.464	-10.213	92.121
ATOM	1804	CB	LYS	B	80	-61.952	-11.793	91.051
ATOM	1805	CG	LYS	B	80	-62.536	-12.277	89.719
ATOM	1806	CD	LYS	B	80	-63.462	-13.457	89.958
ATOM	1807	CE	LYS	B	80	-64.670	-13.029	90.797
ATOM	1808	NZ	LYS	B	80	-65.529	-14.181	91.213
ATOM	1809	H	LYS	B	80	-60.064	-10.336	92.021
ATOM	1810	HZ1	LYS	B	80	-66.368	-13.813	91.805
ATOM	1811	HZ2	LYS	B	80	-64.940	-14.876	91.811
ATOM	1812	HZ3	LYS	B	80	-65.905	-14.692	90.327
ATOM	1813	N	ALA	B	81	-62.850	-9.960	93.668
ATOM	1814	CA	ALA	B	81	-63.743	-9.793	94.794
ATOM	1815	C	ALA	B	81	-64.456	-8.441	94.838
ATOM	1816	O	ALA	B	81	-65.491	-8.303	95.503
ATOM	1817	CB	ALA	B	81	-62.969	-10.003	96.072
ATOM	1818	H	ALA	B	81	-61.775	-9.919	93.847
ATOM	1819	N	LEU	B	82	-63.862	-7.432	94.199
ATOM	1820	CA	LEU	B	82	-64.425	-6.075	94.163
ATOM	1821	C	LEU	B	82	-64.925	-5.606	92.782
ATOM	1822	O	LEU	B	82	-64.871	-4.410	92.470
ATOM	1823	CB	LEU	B	82	-63.437	-5.036	94.736
ATOM	1824	CG	LEU	B	82	-61.936	-5.310	94.973
ATOM	1825	CD1	LEU	B	82	-61.150	-3.994	94.823
ATOM	1826	CD2	LEU	B	82	-61.699	-5.929	96.368
ATOM	1827	H	LEU	B	82	-62.921	-7.621	93.683
ATOM	1828	N	GLY	B	83	-65.400	-6.542	91.961
ATOM	1829	CA	GLY	B	83	-65.914	-6.180	90.646
ATOM	1830	C	GLY	B	83	-64.880	-5.958	89.537
ATOM	1831	O	GLY	B	83	-65.239	-5.661	88.397
ATOM	1832	H	GLY	B	83	-65.406	-7.586	92.276
ATOM	1833	N	ILE	B	84	-63.604	-6.160	89.834
ATOM	1834	CA	ILE	B	84	-62.599	-5.936	88.825

ATOM	1835	C	ILE	B	84	-61.976	-7.221	88.298
ATOM	1836	O	ILE	B	84	-61.575	-8.095	89.066
ATOM	1837	CB	ILE	B	84	-61.510	-4.983	89.354
ATOM	1838	CG1	ILE	B	84	-62.161	-3.730	89.946
ATOM	1839	CG2	ILE	B	84	-60.595	-4.569	88.236
ATOM	1840	CD1	ILE	B	84	-61.194	-2.698	90.502
ATOM	1841	H	ILE	B	84	-63.318	-6.492	90.832
ATOM	1842	N	SER	B	85	-61.990	-7.364	86.977
ATOM	1843	CA	SER	B	85	-61.382	-8.506	86.306
ATOM	1844	C	SER	B	85	-59.932	-8.042	86.072
ATOM	1845	O	SER	B	85	-59.704	-7.066	85.358
ATOM	1846	CB	SER	B	85	-62.095	-8.746	84.969
ATOM	1847	OG	SER	B	85	-61.425	-9.698	84.147
ATOM	1848	H	SER	B	85	-62.476	-6.598	86.373
ATOM	1849	HG	SER	B	85	-61.976	-9.826	83.215
ATOM	1850	N	PRO	B	86	-58.953	-8.673	86.741
ATOM	1851	CA	PRO	B	86	-57.519	-8.362	86.653
ATOM	1852	C	PRO	B	86	-56.796	-8.880	85.417
ATOM	1853	O	PRO	B	86	-57.224	-9.852	84.791
ATOM	1854	CB	PRO	B	86	-56.932	-9.066	87.884
ATOM	1855	CG	PRO	B	86	-58.094	-9.345	88.759
ATOM	1856	CD	PRO	B	86	-59.185	-9.674	87.792
ATOM	1857	N	PHE	B	87	-55.631	-8.298	85.138
ATOM	1858	CA	PHE	B	87	-54.844	-8.758	84.002
ATOM	1859	C	PHE	B	87	-54.091	-10.031	84.354
ATOM	1860	O	PHE	B	87	-54.261	-11.061	83.724
ATOM	1861	CB	PHE	B	87	-53.839	-7.691	83.540
ATOM	1862	CG	PHE	B	87	-52.851	-8.210	82.525
ATOM	1863	CD1	PHE	B	87	-53.282	-8.624	81.278
ATOM	1864	CD2	PHE	B	87	-51.509	-8.358	82.852
ATOM	1865	CE1	PHE	B	87	-52.402	-9.181	80.381
ATOM	1866	CE2	PHE	B	87	-50.630	-8.912	81.967
ATOM	1867	CZ	PHE	B	87	-51.070	-9.327	80.725
ATOM	1868	H	PHE	B	87	-55.268	-7.478	85.757
ATOM	1869	N	HIS	B	88	-53.211	-9.914	85.340
ATOM	1870	CA	HIS	B	88	-52.378	-11.010	85.817
ATOM	1871	C	HIS	B	88	-53.211	-12.096	86.492
ATOM	1872	O	HIS	B	88	-54.156	-11.789	87.221
ATOM	1873	CB	HIS	B	88	-51.357	-10.468	86.824
ATOM	1874	CG	HIS	B	88	-50.545	-9.322	86.306
ATOM	1875	ND1	HIS	B	88	-51.067	-8.063	86.107
ATOM	1876	CD2	HIS	B	88	-49.236	-9.240	85.970
ATOM	1877	CE1	HIS	B	88	-50.118	-7.253	85.670
ATOM	1878	NE2	HIS	B	88	-48.996	-7.943	85.581
ATOM	1879	H	HIS	B	88	-53.106	-8.942	85.822
ATOM	1880	HD1	HIS	B	88	-52.104	-7.778	86.284
ATOM	1881	N	GLU	B	89	-52.837	-13.356	86.267
ATOM	1882	CA	GLU	B	89	-53.534	-14.495	86.870
ATOM	1883	C	GLU	B	89	-53.158	-14.539	88.340
ATOM	1884	O	GLU	B	89	-53.884	-15.050	89.168
ATOM	1885	CB	GLU	B	89	-53.109	-15.794	86.198
ATOM	1886	CG	GLU	B	89	-53.865	-16.141	84.945
ATOM	1887	CD	GLU	B	89	-55.258	-16.612	85.233
ATOM	1888	OE1	GLU	B	89	-55.447	-17.314	86.249
ATOM	1889	OE2	GLU	B	89	-56.167	-16.284	84.437
ATOM	1890	H	GLU	B	89	-51.986	-13.544	85.613
ATOM	1891	N	TYR	B	90	-51.968	-14.035	88.619
ATOM	1892	CA	TYR	B	90	-51.416	-13.934	89.955
ATOM	1893	C	TYR	B	90	-50.053	-13.280	89.772
ATOM	1894	O	TYR	B	90	-49.600	-13.046	88.636
ATOM	1895	CB	TYR	B	90	-51.284	-15.310	90.646
ATOM	1896	CG	TYR	B	90	-50.331	-16.274	89.970
ATOM	1897	CD1	TYR	B	90	-50.771	-17.122	88.958

ATOM	1898	CD2	TYR	B	90	-48.979	-16.288	90.296
ATOM	1899	CE1	TYR	B	90	-49.883	-17.953	88.275
ATOM	1900	CE2	TYR	B	90	-48.083	-17.114	89.624
ATOM	1901	CZ	TYR	B	90	-48.541	-17.936	88.610
ATOM	1902	OH	TYR	B	90	-47.645	-18.677	87.875
ATOM	1903	H	TYR	B	90	-51.362	-13.670	87.789
ATOM	1904	HH	TYR	B	90	-46.642	-18.543	88.281
ATOM	1905	N	ALA	B	91	-49.426	-12.973	90.898
ATOM	1906	CA	ALA	B	91	-48.130	-12.353	90.929
ATOM	1907	C	ALA	B	91	-47.194	-13.261	91.736
ATOM	1908	O	ALA	B	91	-47.565	-13.724	92.824
ATOM	1909	CB	ALA	B	91	-48.256	-10.999	91.603
ATOM	1910	H	ALA	B	91	-49.916	-13.198	91.845
ATOM	1911	N	GLU	B	92	-46.013	-13.560	91.189
ATOM	1912	CA	GLU	B	92	-45.019	-14.370	91.904
ATOM	1913	C	GLU	B	92	-43.615	-13.734	91.946
ATOM	1914	O	GLU	B	92	-43.225	-12.939	91.061
ATOM	1915	CB	GLU	B	92	-44.981	-15.812	91.396
ATOM	1916	CG	GLU	B	92	-44.079	-16.101	90.212
ATOM	1917	CD	GLU	B	92	-43.955	-17.614	89.960
ATOM	1918	OE1	GLU	B	92	-44.980	-18.349	90.088
ATOM	1919	OE2	GLU	B	92	-42.819	-18.061	89.669
ATOM	1920	H	GLU	B	92	-45.781	-13.194	90.189
ATOM	1921	N	VAL	B	93	-42.882	-14.047	93.012
ATOM	1922	CA	VAL	B	93	-41.556	-13.489	93.234
ATOM	1923	C	VAL	B	93	-40.490	-14.528	93.541
ATOM	1924	O	VAL	B	93	-40.442	-15.038	94.651
ATOM	1925	CB	VAL	B	93	-41.606	-12.472	94.369
ATOM	1926	CG1	VAL	B	93	-40.231	-11.938	94.642
ATOM	1927	CG2	VAL	B	93	-42.509	-11.328	93.974
ATOM	1928	H	VAL	B	93	-43.289	-14.744	93.745
ATOM	1929	N	VAL	B	94	-39.626	-14.830	92.569
ATOM	1930	CA	VAL	B	94	-38.568	-15.819	92.783
ATOM	1931	C	VAL	B	94	-37.208	-15.216	93.134
ATOM	1932	O	VAL	B	94	-36.624	-14.478	92.349
ATOM	1933	CB	VAL	B	94	-38.394	-16.743	91.561
ATOM	1934	CG1	VAL	B	94	-37.344	-17.782	91.834
ATOM	1935	CG2	VAL	B	94	-39.704	-17.401	91.216
ATOM	1936	H	VAL	B	94	-39.709	-14.332	91.603
ATOM	1937	N	PHE	B	95	-36.696	-15.536	94.311
ATOM	1938	CA	PHE	B	95	-35.395	-15.025	94.727
ATOM	1939	C	PHE	B	95	-34.686	-16.164	95.421
ATOM	1940	O	PHE	B	95	-35.292	-17.208	95.669
ATOM	1941	CB	PHE	B	95	-35.562	-13.859	95.707
ATOM	1942	CG	PHE	B	95	-36.106	-14.263	97.039
ATOM	1943	CD1	PHE	B	95	-37.460	-14.521	97.201
ATOM	1944	CD2	PHE	B	95	-35.261	-14.409	98.131
ATOM	1945	CE1	PHE	B	95	-37.972	-14.924	98.447
ATOM	1946	CE2	PHE	B	95	-35.759	-14.812	99.385
ATOM	1947	CZ	PHE	B	95	-37.114	-15.071	99.541
ATOM	1948	H	PHE	B	95	-37.255	-16.189	94.980
ATOM	1949	N	THR	B	96	-33.399	-16.010	95.688
ATOM	1950	CA	THR	B	96	-32.719	-17.063	96.410
ATOM	1951	C	THR	B	96	-32.228	-16.514	97.726
ATOM	1952	O	THR	B	96	-31.258	-15.773	97.774
ATOM	1953	CB	THR	B	96	-31.574	-17.736	95.617
ATOM	1954	OG1	THR	B	96	-30.514	-16.806	95.392
ATOM	1955	CG2	THR	B	96	-32.089	-18.253	94.288
ATOM	1956	H	THR	B	96	-32.866	-15.113	95.373
ATOM	1957	HG1	THR	B	96	-29.715	-17.294	94.833
ATOM	1958	N	ALA	B	97	-32.984	-16.786	98.782
ATOM	1959	CA	ALA	B	97	-32.609	-16.341	100.111
ATOM	1960	C	ALA	B	97	-31.346	-17.123	100.380

ATOM	1961	O	ALA	B	97	-31.118	-18.168	99.748
ATOM	1962	CB	ALA	B	97	-33.675	-16.716	101.107
ATOM	1963	H	ALA	B	97	-33.903	-17.356	98.649
ATOM	1964	N	ASN	B	98	-30.542	-16.680	101.338
ATOM	1965	CA	ASN	B	98	-29.306	-17.395	101.582
ATOM	1966	C	ASN	B	98	-28.747	-17.153	102.961
ATOM	1967	O	ASN	B	98	-29.087	-16.172	103.627
ATOM	1968	CB	ASN	B	98	-28.266	-16.958	100.533
ATOM	1969	CG	ASN	B	98	-27.222	-18.034	100.231
ATOM	1970	OD1	ASN	B	98	-26.417	-18.412	101.095
ATOM	1971	ND2	ASN	B	98	-27.207	-18.504	98.991
ATOM	1972	H	ASN	B	98	-30.805	-15.802	101.928
ATOM	1973	HD2	ASN	B	98	-26.427	-19.259	98.898
ATOM	1974	HD2	ASN	B	98	-27.872	-18.184	98.189
ATOM	1975	N	ASP	B	99	-27.872	-18.067	103.373
ATOM	1976	CA	ASP	B	99	-27.164	-17.965	104.646
ATOM	1977	C	ASP	B	99	-25.909	-17.101	104.351
ATOM	1978	O	ASP	B	99	-25.019	-16.945	105.195
ATOM	1979	CB	ASP	B	99	-26.767	-19.366	105.162
ATOM	1980	CG	ASP	B	99	-27.980	-20.249	105.505
ATOM	1981	OD1	ASP	B	99	-28.999	-19.719	105.997
ATOM	1982	OD2	ASP	B	99	-27.908	-21.483	105.295
ATOM	1983	H	ASP	B	99	-27.675	-18.927	102.733
ATOM	1984	N	SER	B	100	-25.865	-16.559	103.128
ATOM	1985	CA	SER	B	100	-24.788	-15.701	102.639
ATOM	1986	C	SER	B	100	-24.721	-14.395	103.415
ATOM	1987	O	SER	B	100	-23.775	-13.622	103.266
ATOM	1988	CB	SER	B	100	-25.009	-15.383	101.150
ATOM	1989	OG	SER	B	100	-26.229	-14.680	100.934
ATOM	1990	H	SER	B	100	-26.690	-16.774	102.449
ATOM	1991	HG	SER	B	100	-26.347	-14.475	99.870
ATOM	1992	N	GLY	B	101	-25.755	-14.130	104.201
ATOM	1993	CA	GLY	B	101	-25.804	-12.904	104.974
ATOM	1994	C	GLY	B	101	-27.098	-12.205	104.620
ATOM	1995	O	GLY	B	101	-27.915	-12.801	103.903
ATOM	1996	H	GLY	B	101	-26.578	-14.841	104.266
ATOM	1997	N	HIS	B	102	-27.242	-10.934	105.014
ATOM	1998	CA	HIS	B	102	-28.460	-10.156	104.752
ATOM	1999	C	HIS	B	102	-29.617	-11.133	104.986
ATOM	2000	O	HIS	B	102	-30.440	-11.406	104.113
ATOM	2001	CB	HIS	B	102	-28.452	-9.548	103.325
ATOM	2002	CG	HIS	B	102	-27.560	-10.268	102.357
ATOM	2003	ND1	HIS	B	102	-26.221	-9.964	102.215
ATOM	2004	CD2	HIS	B	102	-27.785	-11.347	101.567
ATOM	2005	CE1	HIS	B	102	-25.659	-10.832	101.393
ATOM	2006	NE2	HIS	B	102	-26.583	-11.683	100.988
ATOM	2007	H	HIS	B	102	-26.424	-10.457	105.554
ATOM	2008	HD1	HIS	B	102	-25.708	-9.136	102.704
ATOM	2009	N	ARG	B	103	-29.601	-11.685	106.193
ATOM	2010	CA	ARG	B	103	-30.536	-12.694	106.675
ATOM	2011	C	ARG	B	103	-32.062	-12.430	106.818
ATOM	2012	O	ARG	B	103	-32.808	-13.355	107.154
ATOM	2013	CB	ARG	B	103	-29.977	-13.229	107.993
ATOM	2014	CG	ARG	B	103	-28.489	-13.598	107.926
ATOM	2015	CD	ARG	B	103	-28.231	-14.882	107.114
ATOM	2016	NE	ARG	B	103	-28.895	-16.071	107.666
ATOM	2017	CZ	ARG	B	103	-28.629	-16.608	108.858
ATOM	2018	NH1	ARG	B	103	-27.707	-16.073	109.653
ATOM	2019	NH2	ARG	B	103	-29.270	-17.707	109.251
ATOM	2020	H	ARG	B	103	-28.823	-11.356	106.882
ATOM	2021	HE	ARG	B	103	-29.660	-16.551	107.056
ATOM	2022	HH1	ARG	B	103	-27.639	-16.654	110.573
ATOM	2023	HH1	ARG	B	103	-27.111	-15.190	109.420

ATOM	2024	HH2	ARG	B	103	-28.922	-17.995	110.243
ATOM	2025	HH2	ARG	B	103	-30.025	-18.237	108.671
ATOM	2026	N	HIS	B	104	-32.536	-11.207	106.596
ATOM	2027	CA	HIS	B	104	-33.972	-10.920	106.721
ATOM	2028	C	HIS	B	104	-34.568	-10.260	105.457
ATOM	2029	O	HIS	B	104	-33.931	-9.418	104.812
ATOM	2030	CB	HIS	B	104	-34.241	-10.103	107.986
ATOM	2031	CG	HIS	B	104	-33.997	-10.869	109.259
ATOM	2032	ND1	HIS	B	104	-34.976	-11.620	109.875
ATOM	2033	CD2	HIS	B	104	-32.883	-11.015	110.016
ATOM	2034	CE1	HIS	B	104	-34.477	-12.206	110.950
ATOM	2035	NE2	HIS	B	104	-33.207	-11.852	111.061
ATOM	2036	H	HIS	B	104	-31.850	-10.407	106.318
ATOM	2037	HD1	HIS	B	104	-36.005	-11.717	109.528
ATOM	2038	N	TYR	B	105	-35.779	-10.670	105.090
ATOM	2039	CA	TYR	B	105	-36.416	-10.154	103.881
ATOM	2040	C	TYR	B	105	-37.897	-9.769	103.994
ATOM	2041	O	TYR	B	105	-38.679	-10.441	104.658
ATOM	2042	CB	TYR	B	105	-36.268	-11.195	102.756
ATOM	2043	CG	TYR	B	105	-34.857	-11.731	102.587
ATOM	2044	CD1	TYR	B	105	-34.400	-12.800	103.357
ATOM	2045	CD2	TYR	B	105	-33.967	-11.153	101.679
ATOM	2046	CE1	TYR	B	105	-33.089	-13.282	103.232
ATOM	2047	CE2	TYR	B	105	-32.651	-11.628	101.541
ATOM	2048	CZ	TYR	B	105	-32.221	-12.695	102.320
ATOM	2049	OH	TYR	B	105	-30.947	-13.212	102.153
ATOM	2050	H	TYR	B	105	-36.304	-11.405	105.701
ATOM	2051	HH	TYR	B	105	-30.413	-12.629	101.403
ATOM	2052	N	THR	B	106	-38.271	-8.658	103.368
ATOM	2053	CA	THR	B	106	-39.672	-8.237	103.325
ATOM	2054	C	THR	B	106	-40.029	-7.987	101.855
ATOM	2055	O	THR	B	106	-39.295	-7.321	101.147
ATOM	2056	CB	THR	B	106	-39.992	-7.007	104.206
ATOM	2057	OG1	THR	B	106	-41.079	-6.272	103.624
ATOM	2058	CG2	THR	B	106	-38.789	-6.105	104.400
ATOM	2059	H	THR	B	106	-37.516	-8.045	102.875
ATOM	2060	HG1	THR	B	106	-41.304	-5.405	104.245
ATOM	2061	N	ILE	B	107	-41.082	-8.627	101.372
ATOM	2062	CA	ILE	B	107	-41.494	-8.481	99.990
ATOM	2063	C	ILE	B	107	-42.655	-7.495	100.008
ATOM	2064	O	ILE	B	107	-43.479	-7.539	100.914
ATOM	2065	CB	ILE	B	107	-41.916	-9.871	99.407
ATOM	2066	CG1	ILE	B	107	-40.829	-10.920	99.695
ATOM	2067	CG2	ILE	B	107	-42.185	-9.818	97.897
ATOM	2068	CD1	ILE	B	107	-39.381	-10.395	99.729
ATOM	2069	H	ILE	B	107	-41.654	-9.281	102.030
ATOM	2070	N	ALA	B	108	-42.663	-6.554	99.071
ATOM	2071	CA	ALA	B	108	-43.719	-5.538	99.000
ATOM	2072	C	ALA	B	108	-44.473	-5.631	97.676
ATOM	2073	O	ALA	B	108	-43.906	-6.013	96.655
ATOM	2074	CB	ALA	B	108	-43.118	-4.132	99.161
ATOM	2075	H	ALA	B	108	-41.860	-6.535	98.333
ATOM	2076	N	ALA	B	109	-45.735	-5.230	97.693
ATOM	2077	CA	ALA	B	109	-46.550	-5.269	96.500
ATOM	2078	C	ALA	B	109	-47.283	-3.939	96.360
ATOM	2079	O	ALA	B	109	-47.664	-3.327	97.345
ATOM	2080	CB	ALA	B	109	-47.537	-6.431	96.590
ATOM	2081	H	ALA	B	109	-46.168	-4.865	98.624
ATOM	2082	N	LEU	B	110	-47.455	-3.487	95.130
ATOM	2083	CA	LEU	B	110	-48.125	-2.228	94.840
ATOM	2084	C	LEU	B	110	-49.114	-2.658	93.778
ATOM	2085	O	LEU	B	110	-48.927	-2.414	92.579
ATOM	2086	CB	LEU	B	110	-47.117	-1.225	94.270

ATOM	2087	CG	LEU B 110	-47.373	0.298	94.236
ATOM	2088	CD1	LEU B 110	-47.409	0.867	92.807
ATOM	2089	CD2	LEU B 110	-48.645	0.611	94.946
ATOM	2090	H	LEU B 110	-47.081	-4.083	94.297
ATOM	2091	N	LEU B 111	-50.148	-3.352	94.226
ATOM	2092	CA	LEU B 111	-51.157	-3.878	93.330
ATOM	2093	C	LEU B 111	-52.122	-2.877	92.677
ATOM	2094	O	LEU B 111	-52.619	-1.928	93.314
ATOM	2095	CB	LEU B 111	-51.916	-4.972	94.064
ATOM	2096	CG	LEU B 111	-50.954	-5.971	94.713
ATOM	2097	CD1	LEU B 111	-51.740	-7.008	95.435
ATOM	2098	CD2	LEU B 111	-50.033	-6.599	93.667
ATOM	2099	H	LEU B 111	-50.244	-3.531	95.297
ATOM	2100	N	SER B 112	-52.389	-3.140	91.399
ATOM	2101	CA	SER B 112	-53.282	-2.353	90.558
ATOM	2102	C	SER B 112	-53.765	-3.324	89.465
ATOM	2103	O	SER B 112	-52.999	-4.151	89.000
ATOM	2104	CB	SER B 112	-52.529	-1.181	89.928
ATOM	2105	OG	SER B 112	-53.363	-0.039	89.874
ATOM	2106	H	SER B 112	-51.905	-4.008	90.950
ATOM	2107	HG	SER B 112	-52.816	0.789	89.423
ATOM	2108	N	PRO B 113	-55.029	-3.194	89.015
ATOM	2109	CA	PRO B 113	-55.660	-4.036	87.991
ATOM	2110	C	PRO B 113	-54.758	-4.565	86.861
ATOM	2111	O	PRO B 113	-54.738	-5.767	86.560
ATOM	2112	CB	PRO B 113	-56.770	-3.128	87.449
ATOM	2113	CG	PRO B 113	-57.200	-2.383	88.647
ATOM	2114	CD	PRO B 113	-55.877	-2.013	89.301
ATOM	2115	N	TYR B 114	-54.003	-3.677	86.243
ATOM	2116	CA	TYR B 114	-53.134	-4.071	85.147
ATOM	2117	C	TYR B 114	-51.657	-3.798	85.400
ATOM	2118	O	TYR B 114	-50.880	-3.707	84.449
ATOM	2119	CB	TYR B 114	-53.584	-3.354	83.871
ATOM	2120	CG	TYR B 114	-54.884	-3.898	83.315
ATOM	2121	CD1	TYR B 114	-56.087	-3.772	84.017
ATOM	2122	CD2	TYR B 114	-54.911	-4.539	82.083
ATOM	2123	CE1	TYR B 114	-57.276	-4.279	83.490
ATOM	2124	CE2	TYR B 114	-56.093	-5.042	81.550
ATOM	2125	CZ	TYR B 114	-57.266	-4.914	82.246
ATOM	2126	OH	TYR B 114	-58.414	-5.418	81.680
ATOM	2127	H	TYR B 114	-54.029	-2.634	86.560
ATOM	2128	HH	TYR B 114	-58.177	-5.868	80.716
ATOM	2129	N	SER B 115	-51.245	-3.747	86.664
ATOM	2130	CA	SER B 115	-49.863	-3.443	86.959
ATOM	2131	C	SER B 115	-49.467	-3.744	88.404
ATOM	2132	O	SER B 115	-50.277	-3.568	89.308
ATOM	2133	CB	SER B 115	-49.668	-1.963	86.688
ATOM	2134	OG	SER B 115	-48.310	-1.607	86.692
ATOM	2135	H	SER B 115	-51.949	-3.931	87.475
ATOM	2136	HG	SER B 115	-48.214	-0.539	86.494
ATOM	2137	N	TYR B 116	-48.250	-4.257	88.606
ATOM	2138	CA	TYR B 116	-47.734	-4.521	89.956
ATOM	2139	C	TYR B 116	-46.222	-4.338	90.070
ATOM	2140	O	TYR B 116	-45.458	-4.836	89.251
ATOM	2141	CB	TYR B 116	-48.120	-5.907	90.486
ATOM	2142	CG	TYR B 116	-47.396	-7.064	89.865
ATOM	2143	CD1	TYR B 116	-46.075	-7.360	90.215
ATOM	2144	CD2	TYR B 116	-48.038	-7.899	88.960
ATOM	2145	CE1	TYR B 116	-45.402	-8.469	89.677
ATOM	2146	CE2	TYR B 116	-47.383	-9.006	88.420
ATOM	2147	CZ	TYR B 116	-46.069	-9.297	88.783
ATOM	2148	OH	TYR B 116	-45.455	-10.446	88.303
ATOM	2149	H	TYR B 116	-47.621	-4.484	87.745

ATOM	2150	HH	TYR B 116	-46.131	-10.959	87.618
ATOM	2151	N	SER B 117	-45.802	-3.598	91.078
ATOM	2152	CA	SER B 117	-44.397	-3.371	91.327
ATOM	2153	C	SER B 117	-44.083	-4.278	92.510
ATOM	2154	O	SER B 117	-44.945	-4.481	93.375
ATOM	2155	CB	SER B 117	-44.190	-1.924	91.762
ATOM	2156	OG	SER B 117	-45.086	-1.041	91.095
ATOM	2157	H	SER B 117	-46.537	-3.143	91.742
ATOM	2158	HG	SER B 117	-44.907	-0.020	91.432
ATOM	2159	N	THR B 118	-42.911	-4.908	92.497
ATOM	2160	CA	THR B 118	-42.500	-5.754	93.624
ATOM	2161	C	THR B 118	-41.209	-5.187	94.190
ATOM	2162	O	THR B 118	-40.274	-4.922	93.437
ATOM	2163	CB	THR B 118	-42.257	-7.217	93.237
ATOM	2164	OG1	THR B 118	-41.213	-7.756	94.067
ATOM	2165	CG2	THR B 118	-41.860	-7.332	91.784
ATOM	2166	H	THR B 118	-42.249	-4.796	91.638
ATOM	2167	HG1	THR B 118	-41.035	-8.797	93.797
ATOM	2168	N	THR B 119	-41.130	-5.054	95.508
ATOM	2169	CA	THR B 119	-39.927	-4.508	96.104
ATOM	2170	C	THR B 119	-39.273	-5.410	97.133
ATOM	2171	O	THR B 119	-39.909	-5.955	98.054
ATOM	2172	CB	THR B 119	-40.141	-3.052	96.656
ATOM	2173	OG1	THR B 119	-39.955	-2.110	95.591
ATOM	2174	CG2	THR B 119	-39.158	-2.716	97.759
ATOM	2175	H	THR B 119	-41.965	-5.355	96.139
ATOM	2176	HG1	THR B 119	-40.103	-1.099	95.970
ATOM	2177	N	ALA B 120	-37.982	-5.587	96.927
ATOM	2178	CA	ALA B 120	-37.189	-6.395	97.807
ATOM	2179	C	ALA B 120	-36.585	-5.406	98.787
ATOM	2180	O	ALA B 120	-36.410	-4.231	98.464
ATOM	2181	CB	ALA B 120	-36.090	-7.121	97.000
ATOM	2182	H	ALA B 120	-37.508	-5.108	96.070
ATOM	2183	N	VAL B 121	-36.341	-5.872	99.994
ATOM	2184	CA	VAL B 121	-35.738	-5.072	101.050
ATOM	2185	C	VAL B 121	-35.059	-6.077	101.956
ATOM	2186	O	VAL B 121	-35.728	-6.785	102.717
ATOM	2187	CB	VAL B 121	-36.787	-4.271	101.899
ATOM	2188	CG1	VAL B 121	-36.115	-3.702	103.159
ATOM	2189	CG2	VAL B 121	-37.387	-3.113	101.077
ATOM	2190	H	VAL B 121	-36.603	-6.907	100.214
ATOM	2191	N	VAL B 122	-33.749	-6.211	101.800
ATOM	2192	CA	VAL B 122	-32.996	-7.150	102.609
ATOM	2193	C	VAL B 122	-32.272	-6.381	103.717
ATOM	2194	O	VAL B 122	-31.948	-5.195	103.564
ATOM	2195	CB	VAL B 122	-31.993	-7.946	101.757
ATOM	2196	CG1	VAL B 122	-32.668	-8.447	100.496
ATOM	2197	CG2	VAL B 122	-30.797	-7.088	101.411
ATOM	2198	H	VAL B 122	-33.232	-5.609	101.053
ATOM	2199	N	SER B 123	-32.073	-7.034	104.852
ATOM	2200	CA	SER B 123	-31.387	-6.389	105.952
ATOM	2201	C	SER B 123	-30.463	-7.337	106.666
ATOM	2202	O	SER B 123	-30.582	-8.555	106.560
ATOM	2203	CB	SER B 123	-32.374	-5.791	106.955
ATOM	2204	OG	SER B 123	-31.684	-5.326	108.109
ATOM	2205	H	SER B 123	-32.428	-8.059	104.959
ATOM	2206	HG	SER B 123	-32.399	-4.903	108.814
ATOM	2207	N	ASN B 124	-29.553	-6.755	107.430
ATOM	2208	CA	ASN B 124	-28.600	-7.534	108.182
ATOM	2209	C	ASN B 124	-28.733	-7.183	109.652
ATOM	2210	O	ASN B 124	-28.766	-5.998	110.017
ATOM	2211	CB	ASN B 124	-27.184	-7.251	107.695
ATOM	2212	CG	ASN B 124	-26.333	-8.481	107.692

ATOM	2213	OD1	ASN	B	124	-26.247	-9.182	106.683
ATOM	2214	ND2	ASN	B	124	-25.744	-8.798	108.838
ATOM	2215	H	ASN	B	124	-29.522	-5.668	107.491
ATOM	2216	HD2	ASN	B	124	-25.157	-9.707	108.706
ATOM	2217	HD2	ASN	B	124	-25.834	-8.236	109.768
ATOM	2218	N	PRO	B	125	-28.948	-8.206	110.500
ATOM	2219	CA	PRO	B	125	-29.087	-8.016	111.951
ATOM	2220	C	PRO	B	125	-27.694	-7.814	112.553
ATOM	2221	O	PRO	B	125	-26.695	-7.780	111.816
ATOM	2222	CB	PRO	B	125	-29.701	-9.345	112.400
ATOM	2223	CG	PRO	B	125	-29.068	-10.332	111.465
ATOM	2224	CD	PRO	B	125	-29.173	-9.619	110.129
ATOM	2225	N	GLN	B	126	-27.605	-7.652	113.871
ATOM	2226	CA	GLN	B	126	-26.287	-7.491	114.472
ATOM	2227	C	GLN	B	126	-25.686	-8.868	114.716
ATOM	2228	O	GLN	B	126	-26.220	-9.677	115.483
ATOM	2229	CB	GLN	B	126	-26.321	-6.664	115.752
ATOM	2230	CG	GLN	B	126	-25.140	-5.696	115.840
ATOM	2231	CD	GLN	B	126	-23.800	-6.367	115.548
ATOM	2232	OE1	GLN	B	126	-23.112	-6.821	116.458
ATOM	2233	NE2	GLN	B	126	-23.428	-6.427	114.271
ATOM	2234	H	GLN	B	126	-28.502	-7.641	114.490
ATOM	2235	HE2	GLN	B	126	-22.462	-6.926	114.197
ATOM	2236	HE2	GLN	B	126	-23.999	-6.036	113.429
ATOM	2237	N	ASN	B	127	-24.607	-9.131	113.991
ATOM	2238	CA	ASN	B	127	-23.906	-10.400	114.046
ATOM	2239	C	ASN	B	127	-23.276	-10.614	115.407
ATOM	2240	OCT	ASN	B	127	-22.657	-9.658	115.923
ATOM	2241	CB	ASN	B	127	-22.829	-10.450	112.953
ATOM	2242	CG	ASN	B	127	-23.240	-9.703	111.697
ATOM	2243	OD1	ASN	B	127	-23.884	-10.258	110.800
ATOM	2244	ND2	ASN	B	127	-22.891	-8.422	111.640
ATOM	2245	OCT	ASN	B	127	-23.417	-11.739	115.927
ATOM	2246	H	ASN	B	127	-24.229	-8.357	113.323
ATOM	2247	HD2	ASN	B	127	-23.238	-7.993	110.700
ATOM	2248	HD2	ASN	B	127	-22.344	-7.883	112.413
TER								
ATOM	2249	N	SER	C	8	-35.726	10.369	62.384
ATOM	2250	CA	SER	C	8	-35.247	10.919	63.692
ATOM	2251	C	SER	C	8	-36.421	10.932	64.683
ATOM	2252	O	SER	C	8	-37.579	10.784	64.259
ATOM	2253	CB	SER	C	8	-34.711	12.342	63.485
ATOM	2254	OG	SER	C	8	-34.082	12.463	62.214
ATOM	2255	H1	SER	C	8	-34.901	10.355	61.672
ATOM	2256	H2	SER	C	8	-36.529	10.998	61.998
ATOM	2257	H3	SER	C	8	-36.098	9.355	62.530
ATOM	2258	HG	SER	C	8	-33.709	13.480	62.088
ATOM	2259	N	LYS	C	9	-36.118	11.121	65.975
ATOM	2260	CA	LYS	C	9	-37.135	11.140	67.034
ATOM	2261	C	LYS	C	9	-37.464	12.521	67.630
ATOM	2262	O	LYS	C	9	-36.811	13.511	67.315
ATOM	2263	CB	LYS	C	9	-36.776	10.141	68.145
ATOM	2264	CG	LYS	C	9	-35.330	10.157	68.587
ATOM	2265	CD	LYS	C	9	-35.199	9.617	69.991
ATOM	2266	CE	LYS	C	9	-34.259	8.421	70.042
ATOM	2267	NZ	LYS	C	9	-34.791	7.226	69.307
ATOM	2268	H	LYS	C	9	-35.074	11.265	66.252
ATOM	2269	HZ1	LYS	C	9	-34.076	6.407	69.380
ATOM	2270	HZ2	LYS	C	9	-34.945	7.482	68.259
ATOM	2271	HZ3	LYS	C	9	-35.740	6.921	69.749
ATOM	2272	N	CYS	C	10	-38.506	12.574	68.462
ATOM	2273	CA	CYS	C	10	-38.946	13.810	69.107
ATOM	2274	C	CYS	C	10	-38.010	14.176	70.285

ATOM	2275	O	CYS	C	10	-37.774	13.359	71.172
ATOM	2276	CB	CYS	C	10	-40.403	13.659	69.604
ATOM	2277	SG	CYS	C	10	-41.728	14.516	68.646
ATOM	2278	H	CYS	C	10	-39.056	11.655	68.667
ATOM	2279	N	PRO	C	11	-37.427	15.392	70.272
ATOM	2280	CA	PRO	C	11	-36.525	15.848	71.338
ATOM	2281	C	PRO	C	11	-37.111	15.717	72.728
ATOM	2282	O	PRO	C	11	-36.377	15.644	73.720
ATOM	2283	CB	PRO	C	11	-36.232	17.314	70.963
ATOM	2284	CG	PRO	C	11	-37.331	17.686	70.000
ATOM	2285	CD	PRO	C	11	-37.532	16.410	69.215
ATOM	2286	N	LEU	C	12	-38.436	15.730	72.800
ATOM	2287	CA	LEU	C	12	-39.131	15.567	74.070
ATOM	2288	C	LEU	C	12	-40.530	15.002	73.834
ATOM	2289	O	LEU	C	12	-41.256	15.422	72.923
ATOM	2290	CB	LEU	C	12	-39.191	16.872	74.852
ATOM	2291	CG	LEU	C	12	-39.851	16.660	76.201
ATOM	2292	CD1	LEU	C	12	-38.977	15.753	77.038
ATOM	2293	CD2	LEU	C	12	-40.072	17.966	76.911
ATOM	2294	H	LEU	C	12	-39.017	15.866	71.888
ATOM	2295	N	MET	C	13	-40.864	13.981	74.607
ATOM	2296	CA	MET	C	13	-42.160	13.348	74.487
ATOM	2297	C	MET	C	13	-42.681	12.910	75.858
ATOM	2298	O	MET	C	13	-41.923	12.878	76.841
ATOM	2299	CB	MET	C	13	-42.040	12.120	73.588
ATOM	2300	CG	MET	C	13	-43.278	11.878	72.731
ATOM	2301	SD	MET	C	13	-43.712	10.156	72.635
ATOM	2302	CE	MET	C	13	-44.106	9.542	74.258
ATOM	2303	H	MET	C	13	-40.152	13.610	75.345
ATOM	2304	N	VAL	C	14	-43.972	12.576	75.899
ATOM	2305	CA	VAL	C	14	-44.664	12.176	77.116
ATOM	2306	C	VAL	C	14	-45.658	11.096	76.766
ATOM	2307	O	VAL	C	14	-46.314	11.157	75.725
ATOM	2308	CB	VAL	C	14	-45.444	13.372	77.741
ATOM	2309	CG1	VAL	C	14	-46.256	12.918	78.911
ATOM	2310	CG2	VAL	C	14	-44.482	14.491	78.153
ATOM	2311	H	VAL	C	14	-44.539	12.603	74.969
ATOM	2312	N	ALA	C	15	-45.729	10.074	77.607
ATOM	2313	CA	ALA	C	15	-46.656	8.981	77.383
ATOM	2314	C	ALA	C	15	-47.183	8.598	78.746
ATOM	2315	O	ALA	C	15	-46.413	8.552	79.706
ATOM	2316	CB	ALA	C	15	-45.947	7.800	76.715
ATOM	2325	N	VAL	C	16	-48.495	8.384	78.837
ATOM	2326	CA	VAL	C	16	-49.144	8.019	80.100
ATOM	2327	C	VAL	C	16	-49.977	6.731	79.993
ATOM	2328	O	VAL	C	16	-50.542	6.448	78.935
ATOM	2329	CB	VAL	C	16	-50.041	9.168	80.612
ATOM	2330	CG1	VAL	C	16	-50.388	8.952	82.076
ATOM	2331	CG2	VAL	C	16	-49.342	10.504	80.419
ATOM	2332	H	VAL	C	16	-49.107	8.483	77.941
ATOM	2333	N	LEU	C	17	-50.030	5.946	81.076
ATOM	2334	CA	LEU	C	17	-50.794	4.686	81.095
ATOM	2335	C	LEU	C	17	-51.858	4.626	82.196
ATOM	2336	O	LEU	C	17	-51.808	5.384	83.158
ATOM	2337	CB	LEU	C	17	-49.869	3.463	81.182
ATOM	2338	CG	LEU	C	17	-49.030	3.157	79.931
ATOM	2339	CD1	LEU	C	17	-47.803	4.051	79.906
ATOM	2340	CD2	LEU	C	17	-48.607	1.705	79.875
ATOM	2341	H	LEU	C	17	-49.490	6.248	81.973
ATOM	2342	N	ASP	C	18	-52.814	3.713	82.041
ATOM	2343	CA	ASP	C	18	-53.913	3.537	82.991
ATOM	2344	C	ASP	C	18	-53.886	2.176	83.720
ATOM	2345	O	ASP	C	18	-54.651	1.284	83.374

ATOM	2346	CB	ASP	C	18	-55.254	3.684	82.244
ATOM	2347	CG	ASP	C	18	-56.450	3.908	83.187
ATOM	2348	OD1	ASP	C	18	-56.465	3.354	84.337
ATOM	2349	OD2	ASP	C	18	-57.372	4.643	82.757
ATOM	2350	H	ASP	C	18	-52.777	3.066	81.164
ATOM	2351	N	ALA	C	19	-53.098	2.057	84.783
ATOM	2352	CA	ALA	C	19	-52.988	0.808	85.549
ATOM	2353	C	ALA	C	19	-54.300	0.174	86.028
ATOM	2354	O	ALA	C	19	-54.290	-0.876	86.652
ATOM	2355	CB	ALA	C	19	-52.078	1.026	86.743
ATOM	2356	H	ALA	C	19	-52.510	2.918	85.100
ATOM	2357	N	VAL	C	20	-55.421	0.834	85.751
ATOM	2358	CA	VAL	C	20	-56.758	0.383	86.152
ATOM	2359	C	VAL	C	20	-57.576	-0.237	85.009
ATOM	2360	O	VAL	C	20	-58.347	-1.166	85.243
ATOM	2361	CB	VAL	C	20	-57.529	1.564	86.800
ATOM	2362	CG1	VAL	C	20	-59.000	1.279	86.881
ATOM	2363	CG2	VAL	C	20	-56.966	1.844	88.181
ATOM	2364	H	VAL	C	20	-55.342	1.766	85.191
ATOM	2365	N	ARG	C	21	-57.375	0.261	83.787
ATOM	2366	CA	ARG	C	21	-58.072	-0.211	82.588
ATOM	2367	C	ARG	C	21	-57.123	-0.992	81.698
ATOM	2368	O	ARG	C	21	-57.526	-1.584	80.687
ATOM	2369	CB	ARG	C	21	-58.513	0.978	81.732
ATOM	2370	CG	ARG	C	21	-59.814	1.635	82.082
ATOM	2371	CD	ARG	C	21	-59.749	2.403	83.376
ATOM	2372	NE	ARG	C	21	-60.883	3.313	83.421
ATOM	2373	CZ	ARG	C	21	-61.019	4.355	82.602
ATOM	2374	NH1	ARG	C	21	-60.082	4.628	81.698
ATOM	2375	NH2	ARG	C	21	-62.134	5.064	82.614
ATOM	2376	H	ARG	C	21	-56.650	1.067	83.675
ATOM	2377	HE	ARG	C	21	-61.662	3.133	84.161
ATOM	2378	HH1	ARG	C	21	-60.373	5.511	81.129
ATOM	2379	HH1	ARG	C	21	-59.165	4.058	81.550
ATOM	2380	HH2	ARG	C	21	-62.061	5.868	81.883
ATOM	2381	HH2	ARG	C	21	-62.993	4.874	83.258
ATOM	2382	N	GLY	C	22	-55.846	-0.882	82.023
ATOM	2383	CA	GLY	C	22	-54.819	-1.513	81.238
ATOM	2384	C	GLY	C	22	-54.724	-0.820	79.903
ATOM	2385	O	GLY	C	22	-54.546	-1.491	78.882
ATOM	2386	H	GLY	C	22	-55.566	-0.302	82.902
ATOM	2387	N	SER	C	23	-54.787	0.511	79.891
ATOM	2388	CA	SER	C	23	-54.728	1.221	78.609
ATOM	2389	C	SER	C	23	-54.135	2.668	78.576
ATOM	2390	O	SER	C	23	-53.642	3.173	79.588
ATOM	2391	CB	SER	C	23	-56.129	1.155	77.968
ATOM	2392	OG	SER	C	23	-57.164	1.411	78.908
ATOM	2393	H	SER	C	23	-54.882	1.066	80.824
ATOM	2394	HG	SER	C	23	-58.131	1.353	78.408
ATOM	2395	N	PRO	C	24	-54.049	3.283	77.379
ATOM	2396	CA	PRO	C	24	-53.509	4.647	77.281
ATOM	2397	C	PRO	C	24	-54.354	5.703	78.020
ATOM	2398	O	PRO	C	24	-55.587	5.639	77.995
ATOM	2399	CB	PRO	C	24	-53.557	4.919	75.776
ATOM	2400	CG	PRO	C	24	-53.342	3.583	75.183
ATOM	2401	CD	PRO	C	24	-54.204	2.693	76.033
ATOM	2402	N	ALA	C	25	-53.697	6.647	78.698
ATOM	2403	CA	ALA	C	25	-54.411	7.738	79.380
ATOM	2404	C	ALA	C	25	-54.708	8.726	78.255
ATOM	2405	O	ALA	C	25	-53.801	9.331	77.677
ATOM	2406	CB	ALA	C	25	-53.542	8.389	80.435
ATOM	2407	H	ALA	C	25	-52.609	6.609	78.747
ATOM	2408	N	VAL	C	26	-55.972	8.833	77.889

ATOM	2409	CA	VAL	C	26	-56.330	9.696	76.784
ATOM	2410	C	VAL	C	26	-56.743	11.078	77.205
ATOM	2411	O	VAL	C	26	-57.418	11.263	78.215
ATOM	2412	CB	VAL	C	26	-57.481	9.096	75.957
ATOM	2413	CG1	VAL	C	26	-57.480	9.676	74.540
ATOM	2414	CG2	VAL	C	26	-57.385	7.573	75.954
ATOM	2415	H	VAL	C	26	-56.743	8.273	78.418
ATOM	2416	N	ASP	C	27	-56.365	12.041	76.384
ATOM	2417	CA	ASP	C	27	-56.733	13.419	76.607
ATOM	2418	C	ASP	C	27	-56.311	13.922	77.979
ATOM	2419	O	ASP	C	27	-57.136	14.259	78.816
ATOM	2420	CB	ASP	C	27	-58.245	13.551	76.428
ATOM	2421	CG	ASP	C	27	-58.639	14.813	75.725
ATOM	2422	OD1	ASP	C	27	-57.989	15.146	74.713
ATOM	2423	OD2	ASP	C	27	-59.621	15.449	76.156
ATOM	2424	H	ASP	C	27	-55.757	11.788	75.515
ATOM	2425	N	VAL	C	28	-55.015	13.908	78.229
ATOM	2426	CA	VAL	C	28	-54.502	14.408	79.489
ATOM	2427	C	VAL	C	28	-53.793	15.729	79.179
ATOM	2428	O	VAL	C	28	-53.015	15.835	78.210
ATOM	2429	CB	VAL	C	28	-53.545	13.370	80.181
ATOM	2430	CG1	VAL	C	28	-52.690	14.020	81.232
ATOM	2431	CG2	VAL	C	28	-54.357	12.246	80.790
ATOM	2432	H	VAL	C	28	-54.325	13.520	77.480
ATOM	2433	N	ALA	C	29	-54.181	16.760	79.916
ATOM	2434	CA	ALA	C	29	-53.566	18.073	79.764
ATOM	2435	C	ALA	C	29	-52.140	17.880	80.241
ATOM	2436	O	ALA	C	29	-51.899	17.101	81.164
ATOM	2437	CB	ALA	C	29	-54.275	19.128	80.642
ATOM	2438	H	ALA	C	29	-54.976	16.624	80.649
ATOM	2439	N	VAL	C	30	-51.206	18.514	79.545
ATOM	2440	CA	VAL	C	30	-49.790	18.444	79.879
ATOM	2441	C	VAL	C	30	-49.248	19.844	79.680
ATOM	2442	O	VAL	C	30	-49.240	20.339	78.559
ATOM	2443	CB	VAL	C	30	-48.981	17.539	78.912
ATOM	2444	CG1	VAL	C	30	-47.506	17.540	79.333
ATOM	2445	CG2	VAL	C	30	-49.543	16.102	78.871
ATOM	2446	H	VAL	C	30	-51.512	19.112	78.686
ATOM	2447	N	LYS	C	31	-48.841	20.495	80.761
ATOM	2448	CA	LYS	C	31	-48.278	21.826	80.640
ATOM	2449	C	LYS	C	31	-46.788	21.664	80.857
ATOM	2450	O	LYS	C	31	-46.382	20.703	81.521
ATOM	2451	CB	LYS	C	31	-48.871	22.782	81.688
ATOM	2452	CG	LYS	C	31	-50.361	23.037	81.538
ATOM	2453	CD	LYS	C	31	-51.189	22.224	82.538
ATOM	2454	CE	LYS	C	31	-52.680	22.636	82.497
ATOM	2455	NZ	LYS	C	31	-53.511	22.110	83.638
ATOM	2456	H	LYS	C	31	-48.930	20.030	81.742
ATOM	2457	HZ1	LYS	C	31	-54.541	22.449	83.525
ATOM	2458	HZ2	LYS	C	31	-53.109	22.479	84.582
ATOM	2459	HZ3	LYS	C	31	-53.486	21.020	83.634
ATOM	2460	N	VAL	C	32	-45.980	22.507	80.204
ATOM	2461	CA	VAL	C	32	-44.527	22.470	80.357
ATOM	2462	C	VAL	C	32	-44.026	23.858	80.665
ATOM	2463	O	VAL	C	32	-44.299	24.810	79.920
ATOM	2464	CB	VAL	C	32	-43.776	21.969	79.106
ATOM	2465	CG1	VAL	C	32	-42.265	22.006	79.364
ATOM	2466	CG2	VAL	C	32	-44.217	20.552	78.737
ATOM	2467	H	VAL	C	32	-46.420	23.246	79.534
ATOM	2468	N	PHE	C	33	-43.269	23.967	81.750
ATOM	2469	CA	PHE	C	33	-42.720	25.243	82.166
ATOM	2470	C	PHE	C	33	-41.198	25.186	82.213
ATOM	2471	O	PHE	C	33	-40.623	24.118	82.382

ATOM	2472	CB	PHE	C	33	-43.298	25.619	83.529
ATOM	2473	CG	PHE	C	33	-44.801	25.695	83.542
ATOM	2474	CD1	PHE	C	33	-45.458	26.819	83.038
ATOM	2475	CD2	PHE	C	33	-45.565	24.645	84.058
ATOM	2476	CE1	PHE	C	33	-46.843	26.903	83.046
ATOM	2477	CE2	PHE	C	33	-46.970	24.721	84.074
ATOM	2478	CZ	PHE	C	33	-47.606	25.863	83.562
ATOM	2479	H	PHE	C	33	-43.054	23.077	82.341
ATOM	2480	N	LYS	C	34	-40.562	26.331	81.979
ATOM	2481	CA	LYS	C	34	-39.113	26.461	82.009
ATOM	2482	C	LYS	C	34	-38.700	27.500	83.036
ATOM	2483	O	LYS	C	34	-39.184	28.629	83.022
ATOM	2484	CB	LYS	C	34	-38.568	26.888	80.655
ATOM	2485	CG	LYS	C	34	-37.057	26.824	80.640
ATOM	2486	CD	LYS	C	34	-36.437	27.403	79.391
ATOM	2487	CE	LYS	C	34	-34.924	27.450	79.555
ATOM	2488	NZ	LYS	C	34	-34.258	28.015	78.366
ATOM	2489	H	LYS	C	34	-41.156	27.217	81.755
ATOM	2490	HZ1	LYS	C	34	-33.180	28.030	78.525
ATOM	2491	HZ2	LYS	C	34	-34.615	29.032	78.199
ATOM	2492	HZ3	LYS	C	34	-34.488	27.402	77.494
ATOM	2493	N	LYS	C	35	-37.767	27.142	83.903
ATOM	2494	CA	LYS	C	35	-37.310	28.065	84.933
ATOM	2495	C	LYS	C	35	-36.427	29.193	84.405
ATOM	2496	O	LYS	C	35	-35.378	28.948	83.805
ATOM	2497	CB	LYS	C	35	-36.567	27.296	86.008
ATOM	2498	CG	LYS	C	35	-36.108	28.135	87.148
ATOM	2499	CD	LYS	C	35	-35.513	27.257	88.208
ATOM	2500	CE	LYS	C	35	-35.240	28.058	89.458
ATOM	2501	NZ	LYS	C	35	-34.298	27.328	90.332
ATOM	2502	H	LYS	C	35	-37.334	26.143	83.845
ATOM	2503	HZ1	LYS	C	35	-34.108	27.914	91.231
ATOM	2504	HZ2	LYS	C	35	-33.361	27.164	89.800
ATOM	2505	HZ3	LYS	C	35	-34.732	26.367	90.609
ATOM	2506	N	THR	C	36	-36.896	30.427	84.565
ATOM	2507	CA	THR	C	36	-36.144	31.613	84.150
ATOM	2508	C	THR	C	36	-35.069	31.774	85.213
ATOM	2509	O	THR	C	36	-35.365	31.688	86.404
ATOM	2510	CB	THR	C	36	-37.039	32.879	84.158
ATOM	2511	OG1	THR	C	36	-37.894	32.879	83.008
ATOM	2512	CG2	THR	C	36	-36.208	34.140	84.161
ATOM	2513	H	THR	C	36	-37.877	30.561	85.022
ATOM	2514	HG1	THR	C	36	-38.520	33.771	83.021
ATOM	2515	N	ALA	C	37	-33.825	31.974	84.793
ATOM	2516	CA	ALA	C	37	-32.727	32.122	85.748
ATOM	2517	C	ALA	C	37	-32.977	33.323	86.643
ATOM	2518	O	ALA	C	37	-32.592	34.444	86.316
ATOM	2519	CB	ALA	C	37	-31.389	32.258	85.023
ATOM	2520	H	ALA	C	37	-33.619	32.031	83.724
ATOM	2521	N	ASP	C	38	-33.726	33.063	87.716
ATOM	2522	CA	ASP	C	38	-34.113	34.027	88.754
ATOM	2523	C	ASP	C	38	-35.215	33.417	89.620
ATOM	2524	O	ASP	C	38	-35.742	34.073	90.528
ATOM	2525	CB	ASP	C	38	-34.566	35.388	88.172
ATOM	2526	CG	ASP	C	38	-35.905	35.331	87.421
ATOM	2527	OD1	ASP	C	38	-36.554	34.268	87.341
ATOM	2528	OD2	ASP	C	38	-36.310	36.386	86.894
ATOM	2529	H	ASP	C	38	-34.085	32.040	87.833
ATOM	2530	N	GLY	C	39	-35.582	32.176	89.294
ATOM	2531	CA	GLY	C	39	-36.620	31.469	90.028
ATOM	2532	C	GLY	C	39	-37.782	31.108	89.123
ATOM	2533	O	GLY	C	39	-38.104	29.929	88.963
ATOM	2534	H	GLY	C	39	-35.094	31.680	88.455

ATOM	2535	N	SER	C	40	-38.364	32.131	88.495
ATOM	2536	CA	SER	C	40	-39.504	32.013	87.577
ATOM	2537	C	SER	C	40	-39.693	30.679	86.826
ATOM	2538	O	SER	C	40	-38.751	29.919	86.615
ATOM	2539	CB	SER	C	40	-39.442	33.127	86.522
ATOM	2540	OG	SER	C	40	-39.771	34.408	87.029
ATOM	2541	H	SER	C	40	-37.963	33.129	88.677
ATOM	2542	HG	SER	C	40	-39.706	35.144	86.227
ATOM	2543	N	TRP	C	41	-40.933	30.420	86.432
ATOM	2544	CA	TRP	C	41	-41.291	29.244	85.654
ATOM	2545	C	TRP	C	41	-42.095	29.843	84.511
ATOM	2546	O	TRP	C	41	-43.192	30.338	84.748
ATOM	2547	CB	TRP	C	41	-42.214	28.306	86.443
ATOM	2548	CG	TRP	C	41	-41.528	27.333	87.348
ATOM	2549	CD1	TRP	C	41	-41.681	27.226	88.714
ATOM	2550	CD2	TRP	C	41	-40.632	26.285	86.964
ATOM	2551	NE1	TRP	C	41	-40.941	26.166	89.189
ATOM	2552	CE2	TRP	C	41	-40.288	25.573	88.141
ATOM	2553	CE3	TRP	C	41	-40.088	25.875	85.744
ATOM	2554	CZ2	TRP	C	41	-39.421	24.471	88.126
ATOM	2555	CZ3	TRP	C	41	-39.221	24.775	85.733
ATOM	2556	CH2	TRP	C	41	-38.899	24.091	86.916
ATOM	2557	H	TRP	C	41	-41.721	31.123	86.702
ATOM	2558	HE1	TRP	C	41	-40.884	25.851	90.231
ATOM	2559	N	GLU	C	42	-41.551	29.890	83.301
ATOM	2560	CA	GLU	C	42	-42.327	30.443	82.197
ATOM	2561	C	GLU	C	42	-42.895	29.349	81.293
ATOM	2562	O	GLU	C	42	-42.342	28.260	81.194
ATOM	2563	CB	GLU	C	42	-41.532	31.498	81.417
ATOM	2564	CG	GLU	C	42	-40.264	31.007	80.740
ATOM	2565	CD	GLU	C	42	-39.281	32.142	80.461
ATOM	2566	OE1	GLU	C	42	-39.617	33.326	80.728
ATOM	2567	OE2	GLU	C	42	-38.157	31.840	79.998
ATOM	2568	H	GLU	C	42	-40.538	29.522	83.136
ATOM	2569	N	PRO	C	43	-44.047	29.609	80.664
ATOM	2570	CA	PRO	C	43	-44.650	28.609	79.795
ATOM	2571	C	PRO	C	43	-43.782	28.246	78.621
ATOM	2572	O	PRO	C	43	-43.372	29.119	77.861
ATOM	2573	CB	PRO	C	43	-45.930	29.292	79.354
ATOM	2574	CG	PRO	C	43	-46.259	30.149	80.537
ATOM	2575	CD	PRO	C	43	-44.938	30.770	80.790
ATOM	2576	N	PHE	C	44	-43.524	26.951	78.477
ATOM	2577	CA	PHE	C	44	-42.703	26.435	77.390
ATOM	2578	C	PHE	C	44	-43.582	25.828	76.265
ATOM	2579	O	PHE	C	44	-43.463	26.205	75.078
ATOM	2580	CB	PHE	C	44	-41.713	25.419	77.950
ATOM	2581	CG	PHE	C	44	-40.625	25.048	77.009
ATOM	2582	CD1	PHE	C	44	-39.578	25.924	76.760
ATOM	2583	CD2	PHE	C	44	-40.614	23.800	76.405
ATOM	2584	CE1	PHE	C	44	-38.522	25.556	75.914
ATOM	2585	CE2	PHE	C	44	-39.570	23.423	75.569
ATOM	2586	CZ	PHE	C	44	-38.520	24.309	75.325
ATOM	2587	H	PHE	C	44	-43.944	26.249	79.197
ATOM	2588	N	ALA	C	45	-44.500	24.940	76.654
ATOM	2589	CA	ALA	C	45	-45.417	24.302	75.706
ATOM	2590	C	ALA	C	45	-46.505	23.583	76.478
ATOM	2591	O	ALA	C	45	-46.507	23.603	77.699
ATOM	2592	CB	ALA	C	45	-44.662	23.330	74.789
ATOM	2593	H	ALA	C	45	-44.570	24.680	77.710
ATOM	2594	N	SER	C	46	-47.448	22.985	75.762
ATOM	2595	CA	SER	C	46	-48.542	22.274	76.385
ATOM	2596	C	SER	C	46	-49.341	21.551	75.335
ATOM	2597	O	SER	C	46	-49.345	21.947	74.177