

**Synthesis of *Candida albicans*  $\beta$ 1,2-mannan phosphodiester  $\alpha$ -mannan junction**  
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Index of Supplementary material

A PBD file for tetrasaccharide **1** bound to mAb C3.1 as shown in Fig 4

$^1\text{H}$  and  $^{13}\text{C}$  NMR spectra for compounds **3-13**, **16**, and **1**

### PBD file for tetrasaccharide 1 bound to mAb C3.1

ATOM	1	N	GLU	1	-3.679	-19.895	8.044	1.00	0.00	N
ATOM	2	CA	GLU	1	-3.637	-18.807	7.045	1.00	0.00	C
ATOM	3	C	GLU	1	-2.810	-17.637	7.588	1.00	0.00	C
ATOM	4	O	GLU	1	-3.062	-17.195	8.703	1.00	0.00	O
ATOM	5	CB	GLU	1	-5.039	-18.337	6.647	1.00	0.00	C
ATOM	6	CG	GLU	1	-4.981	-17.182	5.638	1.00	0.00	C
ATOM	7	CD	GLU	1	-6.385	-16.787	5.193	1.00	0.00	C
ATOM	8	OE1	GLU	1	-7.082	-16.138	6.004	1.00	0.00	O
ATOM	9	OE2	GLU	1	-6.744	-17.168	4.058	1.00	0.00	O
ATOM	10	HA	GLU	1	-3.144	-19.186	6.149	1.00	0.00	H
ATOM	11	HB2	GLU	1	-5.571	-19.181	6.202	1.00	0.00	H
ATOM	12	HB3	GLU	1	-5.578	-18.021	7.540	1.00	0.00	H
ATOM	13	HG2	GLU	1	-4.504	-16.311	6.090	1.00	0.00	H
ATOM	14	HG3	GLU	1	-4.383	-17.491	4.776	1.00	0.00	H
ATOM	15	H1	GLU	1	-3.884	-19.513	8.958	1.00	0.00	H
ATOM	16	H2	GLU	1	-2.711	-20.226	8.187	1.00	0.00	H
ATOM	17	H3	GLU	1	-4.264	-20.667	7.785	1.00	0.00	H
ATOM	18	N	VAL	2	-1.849	-17.153	6.804	1.00	0.00	N
ATOM	19	CA	VAL	2	-1.010	-15.991	7.115	1.00	0.00	C
ATOM	20	C	VAL	2	-1.864	-14.720	7.279	1.00	0.00	C
ATOM	21	O	VAL	2	-2.343	-14.167	6.292	1.00	0.00	O
ATOM	22	CB	VAL	2	0.123	-15.825	6.063	1.00	0.00	C
ATOM	23	CG1	VAL	2	1.178	-16.928	6.251	1.00	0.00	C
ATOM	24	CG2	VAL	2	-0.332	-15.848	4.588	1.00	0.00	C
ATOM	25	H	VAL	2	-1.671	-17.651	5.947	1.00	0.00	H
ATOM	26	HA	VAL	2	-0.535	-16.177	8.075	1.00	0.00	H
ATOM	27	HB	VAL	2	0.617	-14.876	6.231	1.00	0.00	H
ATOM	28	HG11	VAL	2	0.742	-17.909	6.063	1.00	0.00	H
ATOM	29	HG12	VAL	2	2.007	-16.770	5.557	1.00	0.00	H
ATOM	30	HG13	VAL	2	1.573	-16.894	7.268	1.00	0.00	H
ATOM	31	HG21	VAL	2	-1.006	-15.020	4.377	1.00	0.00	H
ATOM	32	HG22	VAL	2	0.535	-15.741	3.935	1.00	0.00	H
ATOM	33	HG23	VAL	2	-0.833	-16.787	4.349	1.00	0.00	H
ATOM	34	N	GLN	3	-2.059	-14.239	8.520	1.00	0.00	N
ATOM	35	CA	GLN	3	-3.062	-13.197	8.828	1.00	0.00	C
ATOM	36	C	GLN	3	-2.620	-12.223	9.949	1.00	0.00	C
ATOM	37	O	GLN	3	-2.012	-12.631	10.946	1.00	0.00	O
ATOM	38	CB	GLN	3	-4.395	-13.910	9.155	1.00	0.00	C
ATOM	39	CG	GLN	3	-5.675	-13.100	8.867	1.00	0.00	C
ATOM	40	CD	GLN	3	-5.998	-11.988	9.868	1.00	0.00	C
ATOM	41	NE2	GLN	3	-6.834	-11.042	9.498	1.00	0.00	N
ATOM	42	OE1	GLN	3	-5.508	-11.925	10.984	1.00	0.00	O
ATOM	43	H	GLN	3	-1.729	-14.804	9.298	1.00	0.00	H
ATOM	44	HA	GLN	3	-3.215	-12.598	7.930	1.00	0.00	H
ATOM	45	HB2	GLN	3	-4.466	-14.800	8.529	1.00	0.00	H
ATOM	46	HB3	GLN	3	-4.391	-14.248	10.192	1.00	0.00	H
ATOM	47	HG2	GLN	3	-5.601	-12.669	7.870	1.00	0.00	H
ATOM	48	HG3	GLN	3	-6.520	-13.790	8.856	1.00	0.00	H
ATOM	49	HE21	GLN	3	-6.937	-10.288	10.153	1.00	0.00	H
ATOM	50	HE22	GLN	3	-7.258	-11.051	8.588	1.00	0.00	H
ATOM	51	N	LEU	4	-2.928	-10.923	9.778	1.00	0.00	N
ATOM	52	CA	LEU	4	-2.681	-9.841	10.747	1.00	0.00	C
ATOM	53	C	LEU	4	-3.980	-9.089	11.121	1.00	0.00	C

ATOM	54	O	LEU	4	-4.853	-8.851	10.280	1.00	0.00	O
ATOM	55	CB	LEU	4	-1.660	-8.823	10.178	1.00	0.00	C
ATOM	56	CG	LEU	4	-0.164	-9.165	10.343	1.00	0.00	C
ATOM	57	CD1	LEU	4	0.295	-10.350	9.489	1.00	0.00	C
ATOM	58	CD2	LEU	4	0.697	-7.953	9.959	1.00	0.00	C
ATOM	59	H	LEU	4	-3.475	-10.666	8.971	1.00	0.00	H
ATOM	60	HA	LEU	4	-2.284	-10.263	11.672	1.00	0.00	H
ATOM	61	HB2	LEU	4	-1.880	-8.643	9.122	1.00	0.00	H
ATOM	62	HB3	LEU	4	-1.822	-7.875	10.695	1.00	0.00	H
ATOM	63	HG	LEU	4	0.033	-9.393	11.389	1.00	0.00	H
ATOM	64	HD11	LEU	4	-0.017	-10.199	8.456	1.00	0.00	H
ATOM	65	HD12	LEU	4	1.380	-10.437	9.524	1.00	0.00	H
ATOM	66	HD13	LEU	4	-0.122	-11.275	9.874	1.00	0.00	H
ATOM	67	HD21	LEU	4	0.528	-7.153	10.674	1.00	0.00	H
ATOM	68	HD22	LEU	4	1.754	-8.215	9.992	1.00	0.00	H
ATOM	69	HD23	LEU	4	0.444	-7.613	8.954	1.00	0.00	H
ATOM	70	N	GLN	5	-4.045	-8.636	12.378	1.00	0.00	N
ATOM	71	CA	GLN	5	-5.164	-7.882	12.946	1.00	0.00	C
ATOM	72	C	GLN	5	-4.665	-6.594	13.630	1.00	0.00	C
ATOM	73	O	GLN	5	-3.995	-6.661	14.666	1.00	0.00	O
ATOM	74	CB	GLN	5	-5.886	-8.808	13.949	1.00	0.00	C
ATOM	75	CG	GLN	5	-7.092	-8.190	14.681	1.00	0.00	C
ATOM	76	CD	GLN	5	-8.275	-7.910	13.759	1.00	0.00	C
ATOM	77	NE2	GLN	5	-8.636	-6.664	13.545	1.00	0.00	N
ATOM	78	OE1	GLN	5	-8.867	-8.813	13.184	1.00	0.00	O
ATOM	79	H	GLN	5	-3.277	-8.854	12.998	1.00	0.00	H
ATOM	80	HA	GLN	5	-5.864	-7.596	12.159	1.00	0.00	H
ATOM	81	HB2	GLN	5	-6.226	-9.701	13.418	1.00	0.00	H
ATOM	82	HB3	GLN	5	-5.168	-9.132	14.704	1.00	0.00	H
ATOM	83	HG2	GLN	5	-7.428	-8.887	15.448	1.00	0.00	H
ATOM	84	HG3	GLN	5	-6.788	-7.274	15.188	1.00	0.00	H
ATOM	85	HE21	GLN	5	-9.385	-6.512	12.876	1.00	0.00	H
ATOM	86	HE22	GLN	5	-8.136	-5.888	13.976	1.00	0.00	H
ATOM	87	N	GLU	6	-5.025	-5.431	13.071	1.00	0.00	N
ATOM	88	CA	GLU	6	-4.927	-4.120	13.717	1.00	0.00	C
ATOM	89	C	GLU	6	-6.044	-3.885	14.752	1.00	0.00	C
ATOM	90	O	GLU	6	-7.088	-4.540	14.751	1.00	0.00	O
ATOM	91	CB	GLU	6	-4.967	-2.985	12.676	1.00	0.00	C
ATOM	92	CG	GLU	6	-3.809	-2.993	11.669	1.00	0.00	C
ATOM	93	CD	GLU	6	-4.094	-3.728	10.363	1.00	0.00	C
ATOM	94	OE1	GLU	6	-4.778	-4.773	10.361	1.00	0.00	O
ATOM	95	OE2	GLU	6	-3.600	-3.250	9.320	1.00	0.00	O
ATOM	96	H	GLU	6	-5.353	-5.431	12.106	1.00	0.00	H
ATOM	97	HA	GLU	6	-3.971	-4.060	14.237	1.00	0.00	H
ATOM	98	HB2	GLU	6	-5.921	-2.981	12.150	1.00	0.00	H
ATOM	99	HB3	GLU	6	-4.886	-2.046	13.223	1.00	0.00	H
ATOM	100	HG2	GLU	6	-3.588	-1.955	11.417	1.00	0.00	H
ATOM	101	HG3	GLU	6	-2.917	-3.410	12.134	1.00	0.00	H
ATOM	102	N	SER	7	-5.819	-2.911	15.637	1.00	0.00	N
ATOM	103	CA	SER	7	-6.649	-2.533	16.786	1.00	0.00	C
ATOM	104	C	SER	7	-6.125	-1.224	17.437	1.00	0.00	C
ATOM	105	O	SER	7	-5.053	-0.723	17.075	1.00	0.00	O
ATOM	106	CB	SER	7	-6.654	-3.688	17.809	1.00	0.00	C
ATOM	107	OG	SER	7	-5.384	-3.849	18.415	1.00	0.00	O
ATOM	108	H	SER	7	-4.908	-2.471	15.622	1.00	0.00	H
ATOM	109	HA	SER	7	-7.672	-2.377	16.446	1.00	0.00	H
ATOM	110	HB2	SER	7	-7.389	-3.481	18.587	1.00	0.00	H

ATOM	111	HB3	SER	7	-6.940	-4.618	17.315	1.00	0.00	H
ATOM	112	HG	SER	7	-4.696	-3.797	17.721	1.00	0.00	H
ATOM	113	N	GLY	8	-6.837	-0.662	18.425	1.00	0.00	N
ATOM	114	CA	GLY	8	-6.301	0.363	19.343	1.00	0.00	C
ATOM	115	C	GLY	8	-6.337	1.826	18.875	1.00	0.00	C
ATOM	116	O	GLY	8	-6.036	2.706	19.679	1.00	0.00	O
ATOM	117	H	GLY	8	-7.710	-1.098	18.689	1.00	0.00	H
ATOM	118	HA2	GLY	8	-6.865	0.325	20.274	1.00	0.00	H
ATOM	119	HA3	GLY	8	-5.256	0.133	19.551	1.00	0.00	H
ATOM	120	N	GLY	9	-6.702	2.111	17.619	1.00	0.00	N
ATOM	121	CA	GLY	9	-6.948	3.473	17.111	1.00	0.00	C
ATOM	122	C	GLY	9	-8.430	3.857	17.113	1.00	0.00	C
ATOM	123	O	GLY	9	-9.274	3.066	17.530	1.00	0.00	O
ATOM	124	H	GLY	9	-6.947	1.338	17.023	1.00	0.00	H
ATOM	125	HA2	GLY	9	-6.415	4.204	17.719	1.00	0.00	H
ATOM	126	HA3	GLY	9	-6.596	3.555	16.084	1.00	0.00	H
ATOM	127	N	GLY	10	-8.750	5.059	16.618	1.00	0.00	N
ATOM	128	CA	GLY	10	-10.131	5.541	16.496	1.00	0.00	C
ATOM	129	C	GLY	10	-10.226	7.049	16.283	1.00	0.00	C
ATOM	130	O	GLY	10	-10.144	7.522	15.154	1.00	0.00	O
ATOM	131	H	GLY	10	-8.010	5.654	16.270	1.00	0.00	H
ATOM	132	HA2	GLY	10	-10.589	5.055	15.635	1.00	0.00	H
ATOM	133	HA3	GLY	10	-10.706	5.254	17.376	1.00	0.00	H
ATOM	134	N	LEU	11	-10.429	7.809	17.365	1.00	0.00	N
ATOM	135	CA	LEU	11	-10.611	9.264	17.327	1.00	0.00	C
ATOM	136	C	LEU	11	-9.920	9.917	18.530	1.00	0.00	C
ATOM	137	O	LEU	11	-10.023	9.397	19.636	1.00	0.00	O
ATOM	138	CB	LEU	11	-12.126	9.553	17.231	1.00	0.00	C
ATOM	139	CG	LEU	11	-12.537	11.032	17.034	1.00	0.00	C
ATOM	140	CD1	LEU	11	-13.881	11.095	16.289	1.00	0.00	C
ATOM	141	CD2	LEU	11	-12.690	11.787	18.364	1.00	0.00	C
ATOM	142	H	LEU	11	-10.460	7.370	18.273	1.00	0.00	H
ATOM	143	HA	LEU	11	-10.132	9.636	16.427	1.00	0.00	H
ATOM	144	HB2	LEU	11	-12.495	8.988	16.374	1.00	0.00	H
ATOM	145	HB3	LEU	11	-12.627	9.156	18.115	1.00	0.00	H
ATOM	146	HG	LEU	11	-11.792	11.537	16.420	1.00	0.00	H
ATOM	147	HD11	LEU	11	-14.657	10.590	16.870	1.00	0.00	H
ATOM	148	HD12	LEU	11	-14.170	12.134	16.132	1.00	0.00	H
ATOM	149	HD13	LEU	11	-13.792	10.611	15.317	1.00	0.00	H
ATOM	150	HD21	LEU	11	-11.740	11.856	18.884	1.00	0.00	H
ATOM	151	HD22	LEU	11	-13.045	12.801	18.173	1.00	0.00	H
ATOM	152	HD23	LEU	11	-13.412	11.277	19.005	1.00	0.00	H
ATOM	153	N	VAL	12	-9.222	11.035	18.307	1.00	0.00	N
ATOM	154	CA	VAL	12	-8.453	11.814	19.311	1.00	0.00	C
ATOM	155	C	VAL	12	-8.244	13.256	18.821	1.00	0.00	C
ATOM	156	O	VAL	12	-8.554	13.545	17.672	1.00	0.00	O
ATOM	157	CB	VAL	12	-7.069	11.196	19.647	1.00	0.00	C
ATOM	158	CG1	VAL	12	-7.147	9.982	20.581	1.00	0.00	C
ATOM	159	CG2	VAL	12	-6.260	10.842	18.390	1.00	0.00	C
ATOM	160	H	VAL	12	-9.246	11.413	17.359	1.00	0.00	H
ATOM	161	HA	VAL	12	-9.037	11.868	20.230	1.00	0.00	H
ATOM	162	HB	VAL	12	-6.502	11.947	20.200	1.00	0.00	H
ATOM	163	HG11	VAL	12	-7.567	9.130	20.053	1.00	0.00	H
ATOM	164	HG12	VAL	12	-6.146	9.717	20.921	1.00	0.00	H
ATOM	165	HG13	VAL	12	-7.763	10.217	21.449	1.00	0.00	H
ATOM	166	HG21	VAL	12	-6.158	11.721	17.751	1.00	0.00	H
ATOM	167	HG22	VAL	12	-5.268	10.503	18.684	1.00	0.00	H

ATOM	168	HG23	VAL	12	-6.750	10.046	17.828	1.00	0.00	H
ATOM	169	N	GLN	13	-7.731	14.161	19.665	1.00	0.00	N
ATOM	170	CA	GLN	13	-7.584	15.583	19.326	1.00	0.00	C
ATOM	171	C	GLN	13	-6.196	15.978	18.772	1.00	0.00	C
ATOM	172	O	GLN	13	-5.201	15.312	19.088	1.00	0.00	O
ATOM	173	CB	GLN	13	-7.923	16.448	20.551	1.00	0.00	C
ATOM	174	CG	GLN	13	-9.348	16.214	21.080	1.00	0.00	C
ATOM	175	CD	GLN	13	-9.806	17.383	21.943	1.00	0.00	C
ATOM	176	NE2	GLN	13	-10.207	18.483	21.343	1.00	0.00	N
ATOM	177	OE1	GLN	13	-9.791	17.344	23.163	1.00	0.00	O
ATOM	178	H	GLN	13	-7.471	13.873	20.595	1.00	0.00	H
ATOM	179	HA	GLN	13	-8.308	15.805	18.552	1.00	0.00	H
ATOM	180	HB2	GLN	13	-7.206	16.257	21.350	1.00	0.00	H
ATOM	181	HB3	GLN	13	-7.828	17.494	20.261	1.00	0.00	H
ATOM	182	HG2	GLN	13	-10.043	16.113	20.247	1.00	0.00	H
ATOM	183	HG3	GLN	13	-9.379	15.295	21.666	1.00	0.00	H
ATOM	184	HE21	GLN	13	-10.509	19.234	21.934	1.00	0.00	H
ATOM	185	HE22	GLN	13	-10.302	18.496	20.335	1.00	0.00	H
ATOM	186	N	PRO	14	-6.101	17.083	17.990	1.00	0.00	N
ATOM	187	CA	PRO	14	-4.847	17.723	17.601	1.00	0.00	C
ATOM	188	C	PRO	14	-3.946	18.035	18.796	1.00	0.00	C
ATOM	189	O	PRO	14	-4.410	18.386	19.882	1.00	0.00	O
ATOM	190	CB	PRO	14	-5.218	19.021	16.877	1.00	0.00	C
ATOM	191	CG	PRO	14	-6.613	18.749	16.333	1.00	0.00	C
ATOM	192	CD	PRO	14	-7.212	17.793	17.363	1.00	0.00	C
ATOM	193	HA	PRO	14	-4.328	17.059	16.907	1.00	0.00	H
ATOM	194	HB2	PRO	14	-5.272	19.848	17.588	1.00	0.00	H
ATOM	195	HB3	PRO	14	-4.512	19.253	16.080	1.00	0.00	H
ATOM	196	HG2	PRO	14	-7.199	19.664	16.246	1.00	0.00	H
ATOM	197	HG3	PRO	14	-6.536	18.258	15.365	1.00	0.00	H
ATOM	198	HD2	PRO	14	-7.765	18.358	18.114	1.00	0.00	H
ATOM	199	HD3	PRO	14	-7.872	17.096	16.850	1.00	0.00	H
ATOM	200	N	GLY	15	-2.636	17.904	18.580	1.00	0.00	N
ATOM	201	CA	GLY	15	-1.602	18.033	19.607	1.00	0.00	C
ATOM	202	C	GLY	15	-1.474	16.794	20.497	1.00	0.00	C
ATOM	203	O	GLY	15	-0.385	16.539	21.010	1.00	0.00	O
ATOM	204	H	GLY	15	-2.339	17.658	17.640	1.00	0.00	H
ATOM	205	HA2	GLY	15	-0.641	18.205	19.125	1.00	0.00	H
ATOM	206	HA3	GLY	15	-1.850	18.873	20.258	1.00	0.00	H
ATOM	207	N	GLY	16	-2.550	16.009	20.639	1.00	0.00	N
ATOM	208	CA	GLY	16	-2.631	14.827	21.500	1.00	0.00	C
ATOM	209	C	GLY	16	-1.867	13.608	20.979	1.00	0.00	C
ATOM	210	O	GLY	16	-1.056	13.691	20.052	1.00	0.00	O
ATOM	211	H	GLY	16	-3.395	16.286	20.151	1.00	0.00	H
ATOM	212	HA2	GLY	16	-2.232	15.072	22.485	1.00	0.00	H
ATOM	213	HA3	GLY	16	-3.679	14.544	21.600	1.00	0.00	H
ATOM	214	N	SER	17	-2.131	12.465	21.610	1.00	0.00	N
ATOM	215	CA	SER	17	-1.407	11.210	21.385	1.00	0.00	C
ATOM	216	C	SER	17	-2.341	9.994	21.326	1.00	0.00	C
ATOM	217	O	SER	17	-3.478	10.045	21.792	1.00	0.00	O
ATOM	218	CB	SER	17	-0.365	10.978	22.494	1.00	0.00	C
ATOM	219	OG	SER	17	0.662	11.951	22.456	1.00	0.00	O
ATOM	220	H	SER	17	-2.883	12.445	22.280	1.00	0.00	H
ATOM	221	HA	SER	17	-0.884	11.272	20.434	1.00	0.00	H
ATOM	222	HB2	SER	17	-0.856	11.009	23.468	1.00	0.00	H
ATOM	223	HB3	SER	17	0.084	9.992	22.363	1.00	0.00	H
ATOM	224	HG	SER	17	1.516	11.491	22.561	1.00	0.00	H

ATOM	225	N	MET	18	-1.835	8.875	20.791	1.00	0.00	N
ATOM	226	CA	MET	18	-2.533	7.585	20.705	1.00	0.00	C
ATOM	227	C	MET	18	-1.528	6.429	20.544	1.00	0.00	C
ATOM	228	O	MET	18	-0.315	6.643	20.453	1.00	0.00	O
ATOM	229	CB	MET	18	-3.580	7.628	19.569	1.00	0.00	C
ATOM	230	CG	MET	18	-4.855	6.851	19.917	1.00	0.00	C
ATOM	231	SD	MET	18	-6.130	6.914	18.633	1.00	0.00	S
ATOM	232	CE	MET	18	-7.505	6.266	19.618	1.00	0.00	C
ATOM	233	H	MET	18	-0.881	8.913	20.442	1.00	0.00	H
ATOM	234	HA	MET	18	-3.058	7.436	21.649	1.00	0.00	H
ATOM	235	HB2	MET	18	-3.880	8.662	19.387	1.00	0.00	H
ATOM	236	HB3	MET	18	-3.145	7.240	18.648	1.00	0.00	H
ATOM	237	HG2	MET	18	-4.627	5.804	20.109	1.00	0.00	H
ATOM	238	HG3	MET	18	-5.277	7.285	20.827	1.00	0.00	H
ATOM	239	HE1	MET	18	-7.625	6.865	20.523	1.00	0.00	H
ATOM	240	HE2	MET	18	-8.430	6.319	19.047	1.00	0.00	H
ATOM	241	HE3	MET	18	-7.309	5.227	19.896	1.00	0.00	H
ATOM	242	N	LYS	19	-2.012	5.179	20.498	1.00	0.00	N
ATOM	243	CA	LYS	19	-1.170	3.983	20.332	1.00	0.00	C
ATOM	244	C	LYS	19	-1.882	2.841	19.576	1.00	0.00	C
ATOM	245	O	LYS	19	-2.624	2.054	20.165	1.00	0.00	O
ATOM	246	CB	LYS	19	-0.632	3.542	21.707	1.00	0.00	C
ATOM	247	CG	LYS	19	0.451	2.463	21.557	1.00	0.00	C
ATOM	248	CD	LYS	19	1.047	2.080	22.918	1.00	0.00	C
ATOM	249	CE	LYS	19	2.117	1.004	22.694	1.00	0.00	C
ATOM	250	NZ	LYS	19	2.797	0.586	23.943	1.00	0.00	N
ATOM	251	H	LYS	19	-3.009	5.040	20.579	1.00	0.00	H
ATOM	252	HA	LYS	19	-0.314	4.266	19.726	1.00	0.00	H
ATOM	253	HB2	LYS	19	-0.200	4.403	22.217	1.00	0.00	H
ATOM	254	HB3	LYS	19	-1.452	3.160	22.315	1.00	0.00	H
ATOM	255	HG2	LYS	19	0.022	1.571	21.094	1.00	0.00	H
ATOM	256	HG3	LYS	19	1.247	2.840	20.912	1.00	0.00	H
ATOM	257	HD2	LYS	19	1.490	2.962	23.381	1.00	0.00	H
ATOM	258	HD3	LYS	19	0.253	1.692	23.561	1.00	0.00	H
ATOM	259	HE2	LYS	19	1.638	0.138	22.228	1.00	0.00	H
ATOM	260	HE3	LYS	19	2.858	1.396	21.988	1.00	0.00	H
ATOM	261	HZ1	LYS	19	2.123	0.235	24.611	1.00	0.00	H
ATOM	262	HZ2	LYS	19	3.464	-0.151	23.748	1.00	0.00	H
ATOM	263	HZ3	LYS	19	3.293	1.370	24.350	1.00	0.00	H
ATOM	264	N	LEU	20	-1.660	2.761	18.262	1.00	0.00	N
ATOM	265	CA	LEU	20	-2.160	1.690	17.392	1.00	0.00	C
ATOM	266	C	LEU	20	-1.476	0.361	17.737	1.00	0.00	C
ATOM	267	O	LEU	20	-0.266	0.329	17.973	1.00	0.00	O
ATOM	268	CB	LEU	20	-1.902	2.043	15.914	1.00	0.00	C
ATOM	269	CG	LEU	20	-2.364	3.440	15.452	1.00	0.00	C
ATOM	270	CD1	LEU	20	-2.065	3.617	13.958	1.00	0.00	C
ATOM	271	CD2	LEU	20	-3.859	3.667	15.714	1.00	0.00	C
ATOM	272	H	LEU	20	-0.965	3.383	17.871	1.00	0.00	H
ATOM	273	HA	LEU	20	-3.234	1.576	17.554	1.00	0.00	H
ATOM	274	HB2	LEU	20	-0.832	1.959	15.727	1.00	0.00	H
ATOM	275	HB3	LEU	20	-2.399	1.290	15.300	1.00	0.00	H
ATOM	276	HG	LEU	20	-1.799	4.198	15.997	1.00	0.00	H
ATOM	277	HD11	LEU	20	-2.626	2.888	13.375	1.00	0.00	H
ATOM	278	HD12	LEU	20	-2.345	4.624	13.643	1.00	0.00	H
ATOM	279	HD13	LEU	20	-0.999	3.479	13.775	1.00	0.00	H
ATOM	280	HD21	LEU	20	-4.061	3.627	16.782	1.00	0.00	H
ATOM	281	HD22	LEU	20	-4.148	4.652	15.351	1.00	0.00	H

ATOM	282	HD23	LEU	20	-4.448	2.906	15.201	1.00	0.00	H
ATOM	283	N	SER	21	-2.224	-0.736	17.755	1.00	0.00	N
ATOM	284	CA	SER	21	-1.692	-2.046	18.145	1.00	0.00	C
ATOM	285	C	SER	21	-2.097	-3.106	17.123	1.00	0.00	C
ATOM	286	O	SER	21	-3.281	-3.262	16.832	1.00	0.00	O
ATOM	287	CB	SER	21	-2.194	-2.433	19.545	1.00	0.00	C
ATOM	288	OG	SER	21	-1.812	-1.460	20.509	1.00	0.00	O
ATOM	289	H	SER	21	-3.202	-0.688	17.470	1.00	0.00	H
ATOM	290	HA	SER	21	-0.604	-2.024	18.189	1.00	0.00	H
ATOM	291	HB2	SER	21	-3.282	-2.522	19.533	1.00	0.00	H
ATOM	292	HB3	SER	21	-1.769	-3.400	19.822	1.00	0.00	H
ATOM	293	HG	SER	21	-2.388	-0.693	20.399	1.00	0.00	H
ATOM	294	N	CYS	22	-1.123	-3.830	16.566	1.00	0.00	N
ATOM	295	CA	CYS	22	-1.376	-4.947	15.657	1.00	0.00	C
ATOM	296	C	CYS	22	-0.812	-6.250	16.234	1.00	0.00	C
ATOM	297	O	CYS	22	0.311	-6.255	16.752	1.00	0.00	O
ATOM	298	CB	CYS	22	-0.806	-4.625	14.270	1.00	0.00	C
ATOM	299	SG	CYS	22	-1.025	-6.075	13.203	1.00	0.00	S
ATOM	300	H	CYS	22	-0.167	-3.678	16.865	1.00	0.00	H
ATOM	301	HA	CYS	22	-2.450	-5.080	15.549	1.00	0.00	H
ATOM	302	HB2	CYS	22	-1.340	-3.775	13.845	1.00	0.00	H
ATOM	303	HB3	CYS	22	0.254	-4.394	14.348	1.00	0.00	H
ATOM	304	HG	CYS	22	-0.711	-5.507	12.033	1.00	0.00	H
ATOM	305	N	VAL	23	-1.591	-7.322	16.106	1.00	0.00	N
ATOM	306	CA	VAL	23	-1.212	-8.697	16.453	1.00	0.00	C
ATOM	307	C	VAL	23	-0.939	-9.473	15.159	1.00	0.00	C
ATOM	308	O	VAL	23	-1.696	-9.363	14.190	1.00	0.00	O
ATOM	309	CB	VAL	23	-2.320	-9.389	17.283	1.00	0.00	C
ATOM	310	CG1	VAL	23	-1.948	-10.832	17.660	1.00	0.00	C
ATOM	311	CG2	VAL	23	-2.631	-8.605	18.572	1.00	0.00	C
ATOM	312	H	VAL	23	-2.463	-7.190	15.588	1.00	0.00	H
ATOM	313	HA	VAL	23	-0.302	-8.673	17.052	1.00	0.00	H
ATOM	314	HB	VAL	23	-3.231	-9.415	16.682	1.00	0.00	H
ATOM	315	HG11	VAL	23	-1.004	-10.849	18.207	1.00	0.00	H
ATOM	316	HG12	VAL	23	-2.730	-11.263	18.286	1.00	0.00	H
ATOM	317	HG13	VAL	23	-1.859	-11.447	16.764	1.00	0.00	H
ATOM	318	HG21	VAL	23	-2.989	-7.604	18.335	1.00	0.00	H
ATOM	319	HG22	VAL	23	-3.409	-9.116	19.139	1.00	0.00	H
ATOM	320	HG23	VAL	23	-1.735	-8.525	19.189	1.00	0.00	H
ATOM	321	N	ALA	24	0.141	-10.254	15.154	1.00	0.00	N
ATOM	322	CA	ALA	24	0.627	-11.031	14.016	1.00	0.00	C
ATOM	323	C	ALA	24	0.461	-12.544	14.240	1.00	0.00	C
ATOM	324	O	ALA	24	0.878	-13.068	15.272	1.00	0.00	O
ATOM	325	CB	ALA	24	2.100	-10.654	13.843	1.00	0.00	C
ATOM	326	H	ALA	24	0.703	-10.309	16.003	1.00	0.00	H
ATOM	327	HA	ALA	24	0.075	-10.767	13.114	1.00	0.00	H
ATOM	328	HB1	ALA	24	2.572	-10.567	14.822	1.00	0.00	H
ATOM	329	HB2	ALA	24	2.618	-11.443	13.312	1.00	0.00	H
ATOM	330	HB3	ALA	24	2.184	-9.707	13.311	1.00	0.00	H
ATOM	331	N	SER	25	-0.116	-13.260	13.265	1.00	0.00	N
ATOM	332	CA	SER	25	-0.419	-14.695	13.399	1.00	0.00	C
ATOM	333	C	SER	25	0.076	-15.561	12.221	1.00	0.00	C
ATOM	334	O	SER	25	0.259	-15.065	11.112	1.00	0.00	O
ATOM	335	CB	SER	25	-1.929	-14.881	13.638	1.00	0.00	C
ATOM	336	OG	SER	25	-2.695	-14.728	12.461	1.00	0.00	O
ATOM	337	H	SER	25	-0.411	-12.813	12.402	1.00	0.00	H
ATOM	338	HA	SER	25	0.086	-15.071	14.289	1.00	0.00	H

ATOM	339	HB2	SER	25	-2.100	-15.884	14.031	1.00	0.00	H
ATOM	340	HB3	SER	25	-2.268	-14.162	14.386	1.00	0.00	H
ATOM	341	HG	SER	25	-2.463	-13.897	11.998	1.00	0.00	H
ATOM	342	N	GLU	26	0.315	-16.855	12.497	1.00	0.00	N
ATOM	343	CA	GLU	26	0.822	-17.930	11.621	1.00	0.00	C
ATOM	344	C	GLU	26	2.357	-17.943	11.558	1.00	0.00	C
ATOM	345	O	GLU	26	2.968	-18.973	11.831	1.00	0.00	O
ATOM	346	CB	GLU	26	0.216	-17.918	10.201	1.00	0.00	C
ATOM	347	CG	GLU	26	0.506	-19.224	9.428	1.00	0.00	C
ATOM	348	CD	GLU	26	-0.762	-19.883	8.893	1.00	0.00	C
ATOM	349	OE1	GLU	26	-0.960	-19.966	7.660	1.00	0.00	O
ATOM	350	OE2	GLU	26	-1.642	-20.286	9.682	1.00	0.00	O
ATOM	351	H	GLU	26	0.128	-17.155	13.440	1.00	0.00	H
ATOM	352	HA	GLU	26	0.518	-18.872	12.081	1.00	0.00	H
ATOM	353	HB2	GLU	26	-0.861	-17.764	10.277	1.00	0.00	H
ATOM	354	HB3	GLU	26	0.642	-17.090	9.637	1.00	0.00	H
ATOM	355	HG2	GLU	26	1.172	-18.998	8.593	1.00	0.00	H
ATOM	356	HG3	GLU	26	1.017	-19.943	10.067	1.00	0.00	H
ATOM	357	N	PHE	27	2.987	-16.823	11.198	1.00	0.00	N
ATOM	358	CA	PHE	27	4.421	-16.774	10.907	1.00	0.00	C
ATOM	359	C	PHE	27	5.310	-16.553	12.143	1.00	0.00	C
ATOM	360	O	PHE	27	4.913	-15.937	13.136	1.00	0.00	O
ATOM	361	CB	PHE	27	4.699	-15.695	9.848	1.00	0.00	C
ATOM	362	CG	PHE	27	4.685	-14.267	10.370	1.00	0.00	C
ATOM	363	CD1	PHE	27	5.884	-13.541	10.513	1.00	0.00	C
ATOM	364	CD2	PHE	27	3.462	-13.647	10.671	1.00	0.00	C
ATOM	365	CE1	PHE	27	5.850	-12.196	10.930	1.00	0.00	C
ATOM	366	CE2	PHE	27	3.428	-12.294	11.040	1.00	0.00	C
ATOM	367	CZ	PHE	27	4.622	-11.568	11.184	1.00	0.00	C
ATOM	368	H	PHE	27	2.430	-15.997	11.022	1.00	0.00	H
ATOM	369	HA	PHE	27	4.694	-17.738	10.476	1.00	0.00	H
ATOM	370	HB2	PHE	27	5.678	-15.892	9.408	1.00	0.00	H
ATOM	371	HB3	PHE	27	3.963	-15.784	9.045	1.00	0.00	H
ATOM	372	HD1	PHE	27	6.833	-14.006	10.290	1.00	0.00	H
ATOM	373	HD2	PHE	27	2.534	-14.185	10.554	1.00	0.00	H
ATOM	374	HE1	PHE	27	6.772	-11.641	11.040	1.00	0.00	H
ATOM	375	HE2	PHE	27	2.469	-11.819	11.188	1.00	0.00	H
ATOM	376	HZ	PHE	27	4.594	-10.529	11.477	1.00	0.00	H
ATOM	377	N	THR	28	6.576	-16.965	12.017	1.00	0.00	N
ATOM	378	CA	THR	28	7.651	-16.654	12.968	1.00	0.00	C
ATOM	379	C	THR	28	7.936	-15.151	12.965	1.00	0.00	C
ATOM	380	O	THR	28	8.640	-14.638	12.096	1.00	0.00	O
ATOM	381	CB	THR	28	8.906	-17.472	12.634	1.00	0.00	C
ATOM	382	CG2	THR	28	9.943	-17.369	13.746	1.00	0.00	C
ATOM	383	OG1	THR	28	8.545	-18.828	12.510	1.00	0.00	O
ATOM	384	H	THR	28	6.815	-17.538	11.223	1.00	0.00	H
ATOM	385	HA	THR	28	7.321	-16.941	13.966	1.00	0.00	H
ATOM	386	HB	THR	28	9.338	-17.126	11.693	1.00	0.00	H
ATOM	387	HG1	THR	28	9.347	-19.349	12.412	1.00	0.00	H
ATOM	388	HG21	THR	28	9.515	-17.710	14.688	1.00	0.00	H
ATOM	389	HG22	THR	28	10.810	-17.981	13.501	1.00	0.00	H
ATOM	390	HG23	THR	28	10.273	-16.337	13.845	1.00	0.00	H
ATOM	391	N	PHE	29	7.379	-14.454	13.955	1.00	0.00	N
ATOM	392	CA	PHE	29	7.409	-12.998	14.090	1.00	0.00	C
ATOM	393	C	PHE	29	8.825	-12.406	14.180	1.00	0.00	C
ATOM	394	O	PHE	29	9.091	-11.326	13.660	1.00	0.00	O
ATOM	395	CB	PHE	29	6.591	-12.657	15.335	1.00	0.00	C



ATOM	396	CG	PHE	29	6.487	-11.184	15.658	1.00	0.00	C
ATOM	397	CD1	PHE	29	5.473	-10.410	15.072	1.00	0.00	C
ATOM	398	CD2	PHE	29	7.351	-10.604	16.607	1.00	0.00	C
ATOM	399	CE1	PHE	29	5.280	-9.080	15.476	1.00	0.00	C
ATOM	400	CE2	PHE	29	7.164	-9.270	17.007	1.00	0.00	C
ATOM	401	CZ	PHE	29	6.118	-8.515	16.455	1.00	0.00	C
ATOM	402	H	PHE	29	6.741	-14.957	14.555	1.00	0.00	H
ATOM	403	HA	PHE	29	6.922	-12.556	13.224	1.00	0.00	H
ATOM	404	HB2	PHE	29	5.579	-13.047	15.196	1.00	0.00	H
ATOM	405	HB3	PHE	29	7.019	-13.172	16.198	1.00	0.00	H
ATOM	406	HD1	PHE	29	4.819	-10.851	14.335	1.00	0.00	H
ATOM	407	HD2	PHE	29	8.137	-11.196	17.050	1.00	0.00	H
ATOM	408	HE1	PHE	29	4.468	-8.507	15.053	1.00	0.00	H
ATOM	409	HE2	PHE	29	7.801	-8.837	17.765	1.00	0.00	H
ATOM	410	HZ	PHE	29	5.951	-7.506	16.797	1.00	0.00	H
ATOM	411	N	ASN	30	9.752	-13.134	14.803	1.00	0.00	N
ATOM	412	CA	ASN	30	11.155	-12.742	14.986	1.00	0.00	C
ATOM	413	C	ASN	30	12.033	-12.832	13.710	1.00	0.00	C
ATOM	414	O	ASN	30	13.255	-12.739	13.807	1.00	0.00	O
ATOM	415	CB	ASN	30	11.723	-13.499	16.200	1.00	0.00	C
ATOM	416	CG	ASN	30	11.528	-15.007	16.121	1.00	0.00	C
ATOM	417	ND2	ASN	30	10.474	-15.529	16.727	1.00	0.00	N
ATOM	418	OD1	ASN	30	12.291	-15.717	15.493	1.00	0.00	O
ATOM	419	H	ASN	30	9.465	-14.025	15.179	1.00	0.00	H
ATOM	420	HA	ASN	30	11.159	-11.684	15.245	1.00	0.00	H
ATOM	421	HB2	ASN	30	12.785	-13.281	16.312	1.00	0.00	H
ATOM	422	HB3	ASN	30	11.228	-13.135	17.101	1.00	0.00	H
ATOM	423	HD21	ASN	30	10.376	-16.529	16.678	1.00	0.00	H
ATOM	424	HD22	ASN	30	9.867	-14.958	17.295	1.00	0.00	H
ATOM	425	N	ASN	31	11.414	-12.978	12.529	1.00	0.00	N
ATOM	426	CA	ASN	31	12.055	-13.026	11.206	1.00	0.00	C
ATOM	427	C	ASN	31	12.008	-11.666	10.459	1.00	0.00	C
ATOM	428	O	ASN	31	13.028	-11.147	10.015	1.00	0.00	O
ATOM	429	CB	ASN	31	11.333	-14.135	10.413	1.00	0.00	C
ATOM	430	CG	ASN	31	12.012	-14.560	9.114	1.00	0.00	C
ATOM	431	ND2	ASN	31	11.478	-15.568	8.450	1.00	0.00	N
ATOM	432	OD1	ASN	31	13.019	-14.027	8.686	1.00	0.00	O
ATOM	433	H	ASN	31	10.410	-13.070	12.554	1.00	0.00	H
ATOM	434	HA	ASN	31	13.103	-13.314	11.323	1.00	0.00	H
ATOM	435	HB2	ASN	31	11.270	-15.024	11.039	1.00	0.00	H
ATOM	436	HB3	ASN	31	10.315	-13.814	10.183	1.00	0.00	H
ATOM	437	HD21	ASN	31	11.920	-15.835	7.585	1.00	0.00	H
ATOM	438	HD22	ASN	31	10.638	-16.006	8.778	1.00	0.00	H
ATOM	439	N	TYR	32	10.828	-11.044	10.331	1.00	0.00	N
ATOM	440	CA	TYR	32	10.628	-9.902	9.422	1.00	0.00	C
ATOM	441	C	TYR	32	10.734	-8.524	10.097	1.00	0.00	C
ATOM	442	O	TYR	32	10.326	-8.342	11.247	1.00	0.00	O
ATOM	443	CB	TYR	32	9.271	-10.062	8.722	1.00	0.00	C
ATOM	444	CG	TYR	32	9.089	-11.379	7.980	1.00	0.00	C
ATOM	445	CD1	TYR	32	7.847	-12.041	8.045	1.00	0.00	C
ATOM	446	CD2	TYR	32	10.153	-11.966	7.264	1.00	0.00	C
ATOM	447	CE1	TYR	32	7.680	-13.302	7.445	1.00	0.00	C
ATOM	448	CE2	TYR	32	9.994	-13.227	6.665	1.00	0.00	C
ATOM	449	CZ	TYR	32	8.763	-13.908	6.768	1.00	0.00	C
ATOM	450	OH	TYR	32	8.621	-15.139	6.207	1.00	0.00	O
ATOM	451	H	TYR	32	10.014	-11.463	10.750	1.00	0.00	H
ATOM	452	HA	TYR	32	11.399	-9.925	8.650	1.00	0.00	H

ATOM	453	HB2	TYR	32	8.490	-9.976	9.479	1.00	0.00	H
ATOM	454	HB3	TYR	32	9.129	-9.243	8.018	1.00	0.00	H
ATOM	455	HD1	TYR	32	7.020	-11.580	8.564	1.00	0.00	H
ATOM	456	HD2	TYR	32	11.105	-11.462	7.172	1.00	0.00	H
ATOM	457	HE1	TYR	32	6.725	-13.801	7.509	1.00	0.00	H
ATOM	458	HE2	TYR	32	10.818	-13.679	6.131	1.00	0.00	H
ATOM	459	HH	TYR	32	7.718	-15.452	6.266	1.00	0.00	H
ATOM	460	N	TRP	33	11.219	-7.521	9.348	1.00	0.00	N
ATOM	461	CA	TRP	33	11.149	-6.104	9.740	1.00	0.00	C
ATOM	462	C	TRP	33	9.687	-5.639	9.626	1.00	0.00	C
ATOM	463	O	TRP	33	9.035	-5.918	8.622	1.00	0.00	O
ATOM	464	CB	TRP	33	12.098	-5.245	8.874	1.00	0.00	C
ATOM	465	CG	TRP	33	13.573	-5.551	8.930	1.00	0.00	C
ATOM	466	CD1	TRP	33	14.155	-6.484	9.712	1.00	0.00	C
ATOM	467	CD2	TRP	33	14.676	-4.949	8.172	1.00	0.00	C
ATOM	468	CE2	TRP	33	15.894	-5.597	8.542	1.00	0.00	C
ATOM	469	CE3	TRP	33	14.779	-3.921	7.210	1.00	0.00	C
ATOM	470	NE1	TRP	33	15.516	-6.519	9.490	1.00	0.00	N
ATOM	471	CZ2	TRP	33	17.135	-5.264	7.980	1.00	0.00	C
ATOM	472	CZ3	TRP	33	16.014	-3.594	6.619	1.00	0.00	C
ATOM	473	CH2	TRP	33	17.191	-4.262	6.996	1.00	0.00	C
ATOM	474	H	TRP	33	11.505	-7.733	8.404	1.00	0.00	H
ATOM	475	HA	TRP	33	11.455	-6.001	10.782	1.00	0.00	H
ATOM	476	HB2	TRP	33	11.781	-5.314	7.832	1.00	0.00	H
ATOM	477	HB3	TRP	33	11.976	-4.201	9.174	1.00	0.00	H
ATOM	478	HD1	TRP	33	13.613	-7.124	10.387	1.00	0.00	H
ATOM	479	HE1	TRP	33	16.157	-7.135	9.980	1.00	0.00	H
ATOM	480	HE3	TRP	33	13.896	-3.371	6.926	1.00	0.00	H
ATOM	481	HZ2	TRP	33	18.029	-5.790	8.287	1.00	0.00	H
ATOM	482	HZ3	TRP	33	16.055	-2.815	5.870	1.00	0.00	H
ATOM	483	HH2	TRP	33	18.134	-4.012	6.530	1.00	0.00	H
ATOM	484	N	MET	34	9.154	-4.969	10.647	1.00	0.00	N
ATOM	485	CA	MET	34	7.726	-4.622	10.726	1.00	0.00	C
ATOM	486	C	MET	34	7.517	-3.133	10.475	1.00	0.00	C
ATOM	487	O	MET	34	8.295	-2.322	10.972	1.00	0.00	O
ATOM	488	CB	MET	34	7.182	-5.022	12.105	1.00	0.00	C
ATOM	489	CG	MET	34	6.185	-6.179	11.995	1.00	0.00	C
ATOM	490	SD	MET	34	4.541	-5.661	11.436	1.00	0.00	S
ATOM	491	CE	MET	34	3.567	-6.972	12.221	1.00	0.00	C
ATOM	492	H	MET	34	9.782	-4.590	11.354	1.00	0.00	H
ATOM	493	HA	MET	34	7.163	-5.154	9.958	1.00	0.00	H
ATOM	494	HB2	MET	34	8.000	-5.322	12.760	1.00	0.00	H
ATOM	495	HB3	MET	34	6.683	-4.169	12.573	1.00	0.00	H
ATOM	496	HG2	MET	34	6.567	-6.945	11.318	1.00	0.00	H
ATOM	497	HG3	MET	34	6.089	-6.643	12.974	1.00	0.00	H
ATOM	498	HE1	MET	34	3.638	-6.878	13.301	1.00	0.00	H
ATOM	499	HE2	MET	34	2.523	-6.887	11.925	1.00	0.00	H
ATOM	500	HE3	MET	34	3.948	-7.949	11.925	1.00	0.00	H
ATOM	501	N	ASN	35	6.465	-2.753	9.746	1.00	0.00	N
ATOM	502	CA	ASN	35	6.188	-1.343	9.473	1.00	0.00	C
ATOM	503	C	ASN	35	4.701	-1.036	9.219	1.00	0.00	C
ATOM	504	O	ASN	35	3.858	-1.915	9.020	1.00	0.00	O
ATOM	505	CB	ASN	35	7.120	-0.803	8.370	1.00	0.00	C
ATOM	506	CG	ASN	35	6.752	-1.275	6.976	1.00	0.00	C
ATOM	507	ND2	ASN	35	7.308	-2.387	6.535	1.00	0.00	N
ATOM	508	OD1	ASN	35	5.991	-0.613	6.286	1.00	0.00	O
ATOM	509	H	ASN	35	5.837	-3.450	9.342	1.00	0.00	H

ATOM	510	HA	ASN	35	6.447	-0.793	10.377	1.00	0.00	H
ATOM	511	HB2	ASN	35	7.071	0.284	8.368	1.00	0.00	H
ATOM	512	HB3	ASN	35	8.150	-1.090	8.578	1.00	0.00	H
ATOM	513	HD21	ASN	35	7.101	-2.684	5.590	1.00	0.00	H
ATOM	514	HD22	ASN	35	7.987	-2.881	7.085	1.00	0.00	H
ATOM	515	N	TRP	36	4.397	0.261	9.314	1.00	0.00	N
ATOM	516	CA	TRP	36	3.061	0.826	9.162	1.00	0.00	C
ATOM	517	C	TRP	36	3.029	1.856	8.025	1.00	0.00	C
ATOM	518	O	TRP	36	3.876	2.755	7.969	1.00	0.00	O
ATOM	519	CB	TRP	36	2.645	1.483	10.485	1.00	0.00	C
ATOM	520	CG	TRP	36	2.278	0.552	11.606	1.00	0.00	C
ATOM	521	CD1	TRP	36	3.143	-0.032	12.466	1.00	0.00	C
ATOM	522	CD2	TRP	36	0.945	0.134	12.039	1.00	0.00	C
ATOM	523	CE2	TRP	36	1.080	-0.673	13.208	1.00	0.00	C
ATOM	524	CE3	TRP	36	-0.367	0.374	11.576	1.00	0.00	C
ATOM	525	NE1	TRP	36	2.442	-0.759	13.412	1.00	0.00	N
ATOM	526	CZ2	TRP	36	-0.026	-1.188	13.898	1.00	0.00	C
ATOM	527	CZ3	TRP	36	-1.485	-0.146	12.257	1.00	0.00	C
ATOM	528	CH2	TRP	36	-1.319	-0.920	13.418	1.00	0.00	C
ATOM	529	H	TRP	36	5.155	0.904	9.507	1.00	0.00	H
ATOM	530	HA	TRP	36	2.351	0.032	8.932	1.00	0.00	H
ATOM	531	HB2	TRP	36	3.444	2.144	10.822	1.00	0.00	H
ATOM	532	HB3	TRP	36	1.773	2.111	10.289	1.00	0.00	H
ATOM	533	HD1	TRP	36	4.220	0.080	12.432	1.00	0.00	H
ATOM	534	HE1	TRP	36	2.884	-1.272	14.163	1.00	0.00	H
ATOM	535	HE3	TRP	36	-0.511	0.965	10.685	1.00	0.00	H
ATOM	536	HZ2	TRP	36	0.117	-1.780	14.788	1.00	0.00	H
ATOM	537	HZ3	TRP	36	-2.481	0.054	11.885	1.00	0.00	H
ATOM	538	HH2	TRP	36	-2.184	-1.309	13.938	1.00	0.00	H
ATOM	539	N	VAL	37	2.015	1.765	7.161	1.00	0.00	N
ATOM	540	CA	VAL	37	1.844	2.671	6.015	1.00	0.00	C
ATOM	541	C	VAL	37	0.401	3.175	6.056	1.00	0.00	C
ATOM	542	O	VAL	37	-0.511	2.370	6.232	1.00	0.00	O
ATOM	543	CB	VAL	37	2.162	1.940	4.690	1.00	0.00	C
ATOM	544	CG1	VAL	37	2.056	2.853	3.459	1.00	0.00	C
ATOM	545	CG2	VAL	37	3.559	1.288	4.724	1.00	0.00	C
ATOM	546	H	VAL	37	1.329	1.016	7.269	1.00	0.00	H
ATOM	547	HA	VAL	37	2.518	3.523	6.116	1.00	0.00	H
ATOM	548	HB	VAL	37	1.429	1.151	4.578	1.00	0.00	H
ATOM	549	HG11	VAL	37	2.864	3.580	3.458	1.00	0.00	H
ATOM	550	HG12	VAL	37	2.125	2.256	2.550	1.00	0.00	H
ATOM	551	HG13	VAL	37	1.100	3.377	3.455	1.00	0.00	H
ATOM	552	HG21	VAL	37	3.585	0.487	5.461	1.00	0.00	H
ATOM	553	HG22	VAL	37	3.795	0.854	3.755	1.00	0.00	H
ATOM	554	HG23	VAL	37	4.318	2.026	4.969	1.00	0.00	H
ATOM	555	N	ARG	38	0.193	4.492	5.961	1.00	0.00	N
ATOM	556	CA	ARG	38	-1.116	5.136	6.110	1.00	0.00	C
ATOM	557	C	ARG	38	-1.632	5.714	4.792	1.00	0.00	C
ATOM	558	O	ARG	38	-0.860	6.217	3.980	1.00	0.00	O
ATOM	559	CB	ARG	38	-1.080	6.188	7.232	1.00	0.00	C
ATOM	560	CG	ARG	38	-0.289	7.461	6.881	1.00	0.00	C
ATOM	561	CD	ARG	38	-0.203	8.402	8.086	1.00	0.00	C
ATOM	562	NE	ARG	38	0.516	9.640	7.754	1.00	0.00	N
ATOM	563	CZ	ARG	38	0.928	10.567	8.603	1.00	0.00	C
ATOM	564	NH1	ARG	38	0.781	10.460	9.901	1.00	0.00	N
ATOM	565	NH2	ARG	38	1.470	11.659	8.128	1.00	0.00	N
ATOM	566	H	ARG	38	0.991	5.094	5.762	1.00	0.00	H

ATOM	567	HA	ARG	38	-1.817	4.371	6.424	1.00	0.00	H
ATOM	568	HB2	ARG	38	-2.104	6.471	7.479	1.00	0.00	H
ATOM	569	HB3	ARG	38	-0.641	5.729	8.118	1.00	0.00	H
ATOM	570	HG2	ARG	38	0.717	7.191	6.570	1.00	0.00	H
ATOM	571	HG3	ARG	38	-0.786	7.986	6.064	1.00	0.00	H
ATOM	572	HD2	ARG	38	-1.213	8.654	8.419	1.00	0.00	H
ATOM	573	HD3	ARG	38	0.321	7.894	8.894	1.00	0.00	H
ATOM	574	HE	ARG	38	0.639	9.888	6.770	1.00	0.00	H
ATOM	575	HH11	ARG	38	0.259	9.700	10.306	1.00	0.00	H
ATOM	576	HH12	ARG	38	1.059	11.263	10.461	1.00	0.00	H
ATOM	577	HH21	ARG	38	1.524	11.712	7.109	1.00	0.00	H
ATOM	578	HH22	ARG	38	1.533	12.475	8.717	1.00	0.00	H
ATOM	579	N	GLN	39	-2.944	5.659	4.588	1.00	0.00	N
ATOM	580	CA	GLN	39	-3.629	6.257	3.448	1.00	0.00	C
ATOM	581	C	GLN	39	-4.428	7.478	3.908	1.00	0.00	C
ATOM	582	O	GLN	39	-5.453	7.321	4.573	1.00	0.00	O
ATOM	583	CB	GLN	39	-4.543	5.210	2.789	1.00	0.00	C
ATOM	584	CG	GLN	39	-5.030	5.674	1.404	1.00	0.00	C
ATOM	585	CD	GLN	39	-5.970	4.664	0.749	1.00	0.00	C
ATOM	586	NE2	GLN	39	-5.870	4.453	-0.544	1.00	0.00	N
ATOM	587	OE1	GLN	39	-6.806	4.040	1.384	1.00	0.00	O
ATOM	588	H	GLN	39	-3.504	5.164	5.276	1.00	0.00	H
ATOM	589	HA	GLN	39	-2.894	6.574	2.714	1.00	0.00	H
ATOM	590	HB2	GLN	39	-4.006	4.271	2.673	1.00	0.00	H
ATOM	591	HB3	GLN	39	-5.402	5.016	3.432	1.00	0.00	H
ATOM	592	HG2	GLN	39	-5.562	6.622	1.492	1.00	0.00	H
ATOM	593	HG3	GLN	39	-4.161	5.823	0.759	1.00	0.00	H
ATOM	594	HE21	GLN	39	-6.499	3.779	-0.937	1.00	0.00	H
ATOM	595	HE22	GLN	39	-5.187	4.940	-1.107	1.00	0.00	H
ATOM	596	N	SER	40	-4.003	8.686	3.531	1.00	0.00	N
ATOM	597	CA	SER	40	-4.858	9.876	3.611	1.00	0.00	C
ATOM	598	C	SER	40	-5.308	10.282	2.191	1.00	0.00	C
ATOM	599	O	SER	40	-4.508	10.177	1.251	1.00	0.00	O
ATOM	600	CB	SER	40	-4.173	11.033	4.353	1.00	0.00	C
ATOM	601	OG	SER	40	-3.115	11.618	3.627	1.00	0.00	O
ATOM	602	H	SER	40	-3.170	8.779	2.955	1.00	0.00	H
ATOM	603	HA	SER	40	-5.730	9.628	4.208	1.00	0.00	H
ATOM	604	HB2	SER	40	-4.919	11.807	4.551	1.00	0.00	H
ATOM	605	HB3	SER	40	-3.795	10.671	5.310	1.00	0.00	H
ATOM	606	HG	SER	40	-2.858	12.426	4.092	1.00	0.00	H
ATOM	607	N	PRO	41	-6.569	10.725	1.993	1.00	0.00	N
ATOM	608	CA	PRO	41	-7.088	11.048	0.664	1.00	0.00	C
ATOM	609	C	PRO	41	-6.314	12.141	-0.082	1.00	0.00	C
ATOM	610	O	PRO	41	-6.291	12.121	-1.305	1.00	0.00	O
ATOM	611	CB	PRO	41	-8.542	11.477	0.873	1.00	0.00	C
ATOM	612	CG	PRO	41	-8.944	10.755	2.154	1.00	0.00	C
ATOM	613	CD	PRO	41	-7.655	10.769	2.969	1.00	0.00	C
ATOM	614	HA	PRO	41	-7.066	10.139	0.060	1.00	0.00	H
ATOM	615	HB2	PRO	41	-8.596	12.553	1.039	1.00	0.00	H
ATOM	616	HB3	PRO	41	-9.171	11.188	0.030	1.00	0.00	H
ATOM	617	HG2	PRO	41	-9.759	11.264	2.670	1.00	0.00	H
ATOM	618	HG3	PRO	41	-9.219	9.724	1.921	1.00	0.00	H
ATOM	619	HD2	PRO	41	-7.591	11.693	3.546	1.00	0.00	H
ATOM	620	HD3	PRO	41	-7.653	9.905	3.634	1.00	0.00	H
ATOM	621	N	GLU	42	-5.692	13.085	0.636	1.00	0.00	N
ATOM	622	CA	GLU	42	-4.947	14.205	0.046	1.00	0.00	C
ATOM	623	C	GLU	42	-3.519	13.825	-0.415	1.00	0.00	C

ATOM	624	O	GLU	42	-2.876	14.608	-1.110	1.00	0.00	O
ATOM	625	CB	GLU	42	-4.946	15.382	1.051	1.00	0.00	C
ATOM	626	CG	GLU	42	-3.992	15.123	2.227	1.00	0.00	C
ATOM	627	CD	GLU	42	-4.053	16.097	3.400	1.00	0.00	C
ATOM	628	OE1	GLU	42	-4.988	16.928	3.453	1.00	0.00	O
ATOM	629	OE2	GLU	42	-3.135	15.957	4.248	1.00	0.00	O
ATOM	630	H	GLU	42	-5.761	13.067	1.642	1.00	0.00	H
ATOM	631	HA	GLU	42	-5.485	14.538	-0.844	1.00	0.00	H
ATOM	632	HB2	GLU	42	-4.637	16.293	0.537	1.00	0.00	H
ATOM	633	HB3	GLU	42	-5.963	15.525	1.419	1.00	0.00	H
ATOM	634	HG2	GLU	42	-4.165	14.120	2.621	1.00	0.00	H
ATOM	635	HG3	GLU	42	-2.984	15.189	1.830	1.00	0.00	H
ATOM	636	N	LYS	43	-3.008	12.642	-0.031	1.00	0.00	N
ATOM	637	CA	LYS	43	-1.625	12.221	-0.323	1.00	0.00	C
ATOM	638	C	LYS	43	-1.512	10.921	-1.132	1.00	0.00	C
ATOM	639	O	LYS	43	-0.550	10.758	-1.880	1.00	0.00	O
ATOM	640	CB	LYS	43	-0.849	12.019	0.992	1.00	0.00	C
ATOM	641	CG	LYS	43	-0.775	13.274	1.866	1.00	0.00	C
ATOM	642	CD	LYS	43	0.065	13.000	3.109	1.00	0.00	C
ATOM	643	CE	LYS	43	0.132	14.235	4.006	1.00	0.00	C
ATOM	644	NZ	LYS	43	0.767	13.880	5.293	1.00	0.00	N
ATOM	645	H	LYS	43	-3.599	12.026	0.516	1.00	0.00	H
ATOM	646	HA	LYS	43	-1.118	12.990	-0.906	1.00	0.00	H
ATOM	647	HB2	LYS	43	-1.312	11.211	1.564	1.00	0.00	H
ATOM	648	HB3	LYS	43	0.170	11.715	0.745	1.00	0.00	H
ATOM	649	HG2	LYS	43	-0.347	14.105	1.299	1.00	0.00	H
ATOM	650	HG3	LYS	43	-1.773	13.522	2.200	1.00	0.00	H
ATOM	651	HD2	LYS	43	-0.385	12.175	3.664	1.00	0.00	H
ATOM	652	HD3	LYS	43	1.074	12.719	2.804	1.00	0.00	H
ATOM	653	HE2	LYS	43	0.720	15.003	3.498	1.00	0.00	H
ATOM	654	HE3	LYS	43	-0.878	14.632	4.176	1.00	0.00	H
ATOM	655	HZ1	LYS	43	1.593	13.295	5.149	1.00	0.00	H
ATOM	656	HZ2	LYS	43	0.996	14.701	5.826	1.00	0.00	H
ATOM	657	HZ3	LYS	43	0.122	13.330	5.858	1.00	0.00	H
ATOM	658	N	GLY	44	-2.431	9.968	-0.933	1.00	0.00	N
ATOM	659	CA	GLY	44	-2.209	8.556	-1.266	1.00	0.00	C
ATOM	660	C	GLY	44	-1.609	7.821	-0.066	1.00	0.00	C
ATOM	661	O	GLY	44	-2.116	7.972	1.047	1.00	0.00	O
ATOM	662	H	GLY	44	-3.190	10.180	-0.293	1.00	0.00	H
ATOM	663	HA2	GLY	44	-3.165	8.090	-1.491	1.00	0.00	H
ATOM	664	HA3	GLY	44	-1.535	8.469	-2.121	1.00	0.00	H
ATOM	665	N	LEU	45	-0.576	6.997	-0.276	1.00	0.00	N
ATOM	666	CA	LEU	45	0.107	6.238	0.785	1.00	0.00	C
ATOM	667	C	LEU	45	1.388	6.939	1.268	1.00	0.00	C
ATOM	668	O	LEU	45	2.319	7.122	0.488	1.00	0.00	O
ATOM	669	CB	LEU	45	0.437	4.809	0.289	1.00	0.00	C
ATOM	670	CG	LEU	45	-0.759	3.851	0.104	1.00	0.00	C
ATOM	671	CD1	LEU	45	-0.259	2.508	-0.452	1.00	0.00	C
ATOM	672	CD2	LEU	45	-1.509	3.580	1.415	1.00	0.00	C
ATOM	673	H	LEU	45	-0.166	6.962	-1.201	1.00	0.00	H
ATOM	674	HA	LEU	45	-0.551	6.161	1.644	1.00	0.00	H
ATOM	675	HB2	LEU	45	0.963	4.897	-0.663	1.00	0.00	H
ATOM	676	HB3	LEU	45	1.126	4.352	1.001	1.00	0.00	H
ATOM	677	HG	LEU	45	-1.456	4.285	-0.611	1.00	0.00	H
ATOM	678	HD11	LEU	45	0.394	2.018	0.271	1.00	0.00	H
ATOM	679	HD12	LEU	45	-1.109	1.857	-0.666	1.00	0.00	H
ATOM	680	HD13	LEU	45	0.296	2.673	-1.372	1.00	0.00	H

ATOM	681	HD21	LEU	45	-1.899	4.507	1.819	1.00	0.00	H
ATOM	682	HD22	LEU	45	-2.344	2.904	1.227	1.00	0.00	H
ATOM	683	HD23	LEU	45	-0.841	3.123	2.146	1.00	0.00	H
ATOM	684	N	GLU	46	1.470	7.252	2.567	1.00	0.00	N
ATOM	685	CA	GLU	46	2.727	7.557	3.266	1.00	0.00	C
ATOM	686	C	GLU	46	3.175	6.339	4.083	1.00	0.00	C
ATOM	687	O	GLU	46	2.425	5.872	4.941	1.00	0.00	O
ATOM	688	CB	GLU	46	2.544	8.717	4.262	1.00	0.00	C
ATOM	689	CG	GLU	46	2.496	10.116	3.641	1.00	0.00	C
ATOM	690	CD	GLU	46	2.261	11.165	4.728	1.00	0.00	C
ATOM	691	OE1	GLU	46	3.028	12.148	4.863	1.00	0.00	O
ATOM	692	OE2	GLU	46	1.250	11.068	5.449	1.00	0.00	O
ATOM	693	H	GLU	46	0.667	7.051	3.151	1.00	0.00	H
ATOM	694	HA	GLU	46	3.511	7.818	2.556	1.00	0.00	H
ATOM	695	HB2	GLU	46	1.624	8.546	4.822	1.00	0.00	H
ATOM	696	HB3	GLU	46	3.374	8.701	4.973	1.00	0.00	H
ATOM	697	HG2	GLU	46	3.439	10.316	3.131	1.00	0.00	H
ATOM	698	HG3	GLU	46	1.680	10.164	2.916	1.00	0.00	H
ATOM	699	N	TRP	47	4.408	5.860	3.892	1.00	0.00	N
ATOM	700	CA	TRP	47	5.055	5.038	4.915	1.00	0.00	C
ATOM	701	C	TRP	47	5.313	5.888	6.170	1.00	0.00	C
ATOM	702	O	TRP	47	5.731	7.036	6.062	1.00	0.00	O
ATOM	703	CB	TRP	47	6.336	4.416	4.354	1.00	0.00	C
ATOM	704	CG	TRP	47	7.308	3.945	5.388	1.00	0.00	C
ATOM	705	CD1	TRP	47	7.182	2.843	6.161	1.00	0.00	C
ATOM	706	CD2	TRP	47	8.562	4.579	5.790	1.00	0.00	C
ATOM	707	CE2	TRP	47	9.146	3.801	6.831	1.00	0.00	C
ATOM	708	CE3	TRP	47	9.276	5.720	5.365	1.00	0.00	C
ATOM	709	NE1	TRP	47	8.265	2.755	7.013	1.00	0.00	N
ATOM	710	CZ2	TRP	47	10.372	4.142	7.419	1.00	0.00	C
ATOM	711	CZ3	TRP	47	10.509	6.070	5.948	1.00	0.00	C
ATOM	712	CH2	TRP	47	11.060	5.281	6.971	1.00	0.00	C
ATOM	713	H	TRP	47	4.996	6.268	3.185	1.00	0.00	H
ATOM	714	HA	TRP	47	4.385	4.229	5.196	1.00	0.00	H
ATOM	715	HB2	TRP	47	6.071	3.581	3.705	1.00	0.00	H
ATOM	716	HB3	TRP	47	6.843	5.165	3.746	1.00	0.00	H
ATOM	717	HD1	TRP	47	6.369	2.130	6.103	1.00	0.00	H
ATOM	718	HE1	TRP	47	8.418	1.981	7.643	1.00	0.00	H
ATOM	719	HE3	TRP	47	8.877	6.321	4.560	1.00	0.00	H
ATOM	720	HZ2	TRP	47	10.794	3.520	8.186	1.00	0.00	H
ATOM	721	HZ3	TRP	47	11.042	6.939	5.584	1.00	0.00	H
ATOM	722	HH2	TRP	47	12.014	5.550	7.396	1.00	0.00	H
ATOM	723	N	VAL	48	5.037	5.333	7.351	1.00	0.00	N
ATOM	724	CA	VAL	48	5.008	6.091	8.614	1.00	0.00	C
ATOM	725	C	VAL	48	6.307	5.877	9.399	1.00	0.00	C
ATOM	726	O	VAL	48	7.077	6.812	9.625	1.00	0.00	O
ATOM	727	CB	VAL	48	3.773	5.699	9.463	1.00	0.00	C
ATOM	728	CG1	VAL	48	3.661	6.588	10.710	1.00	0.00	C
ATOM	729	CG2	VAL	48	2.464	5.842	8.668	1.00	0.00	C
ATOM	730	H	VAL	48	4.717	4.366	7.346	1.00	0.00	H
ATOM	731	HA	VAL	48	4.920	7.154	8.390	1.00	0.00	H
ATOM	732	HB	VAL	48	3.861	4.662	9.791	1.00	0.00	H
ATOM	733	HG11	VAL	48	3.564	7.630	10.411	1.00	0.00	H
ATOM	734	HG12	VAL	48	2.781	6.315	11.288	1.00	0.00	H
ATOM	735	HG13	VAL	48	4.540	6.468	11.343	1.00	0.00	H
ATOM	736	HG21	VAL	48	2.448	5.149	7.827	1.00	0.00	H
ATOM	737	HG22	VAL	48	1.612	5.612	9.307	1.00	0.00	H

ATOM	738	HG23	VAL	48	2.375	6.859	8.293	1.00	0.00	H
ATOM	739	N	ALA	49	6.553	4.631	9.807	1.00	0.00	N
ATOM	740	CA	ALA	49	7.652	4.225	10.669	1.00	0.00	C
ATOM	741	C	ALA	49	7.923	2.734	10.458	1.00	0.00	C
ATOM	742	O	ALA	49	6.976	1.957	10.293	1.00	0.00	O
ATOM	743	CB	ALA	49	7.282	4.524	12.130	1.00	0.00	C
ATOM	744	H	ALA	49	5.912	3.896	9.538	1.00	0.00	H
ATOM	745	HA	ALA	49	8.549	4.784	10.398	1.00	0.00	H
ATOM	746	HB1	ALA	49	6.434	3.913	12.438	1.00	0.00	H
ATOM	747	HB2	ALA	49	8.135	4.297	12.769	1.00	0.00	H
ATOM	748	HB3	ALA	49	7.025	5.575	12.242	1.00	0.00	H
ATOM	749	N	GLU	50	9.194	2.341	10.470	1.00	0.00	N
ATOM	750	CA	GLU	50	9.619	0.940	10.454	1.00	0.00	C
ATOM	751	C	GLU	50	10.353	0.585	11.751	1.00	0.00	C
ATOM	752	O	GLU	50	10.971	1.438	12.395	1.00	0.00	O
ATOM	753	CB	GLU	50	10.491	0.617	9.223	1.00	0.00	C
ATOM	754	CG	GLU	50	11.916	1.165	9.341	1.00	0.00	C
ATOM	755	CD	GLU	50	12.705	1.003	8.047	1.00	0.00	C
ATOM	756	OE1	GLU	50	12.575	1.835	7.115	1.00	0.00	O
ATOM	757	OE2	GLU	50	13.523	0.062	8.009	1.00	0.00	O
ATOM	758	H	GLU	50	9.910	3.042	10.648	1.00	0.00	H
ATOM	759	HA	GLU	50	8.737	0.304	10.405	1.00	0.00	H
ATOM	760	HB2	GLU	50	10.549	-0.468	9.116	1.00	0.00	H
ATOM	761	HB3	GLU	50	10.009	1.012	8.327	1.00	0.00	H
ATOM	762	HG2	GLU	50	11.886	2.209	9.631	1.00	0.00	H
ATOM	763	HG3	GLU	50	12.438	0.614	10.126	1.00	0.00	H
ATOM	764	N	ILE	51	10.329	-0.703	12.086	1.00	0.00	N
ATOM	765	CA	ILE	51	11.149	-1.300	13.140	1.00	0.00	C
ATOM	766	C	ILE	51	11.789	-2.606	12.659	1.00	0.00	C
ATOM	767	O	ILE	51	11.126	-3.558	12.221	1.00	0.00	O
ATOM	768	CB	ILE	51	10.360	-1.438	14.458	1.00	0.00	C
ATOM	769	CG1	ILE	51	11.311	-1.936	15.567	1.00	0.00	C
ATOM	770	CG2	ILE	51	9.099	-2.319	14.342	1.00	0.00	C
ATOM	771	CD1	ILE	51	10.796	-1.600	16.964	1.00	0.00	C
ATOM	772	H	ILE	51	9.746	-1.335	11.539	1.00	0.00	H
ATOM	773	HA	ILE	51	11.970	-0.604	13.341	1.00	0.00	H
ATOM	774	HB	ILE	51	10.032	-0.433	14.727	1.00	0.00	H
ATOM	775	HG12	ILE	51	11.445	-3.014	15.481	1.00	0.00	H
ATOM	776	HG13	ILE	51	12.284	-1.463	15.451	1.00	0.00	H
ATOM	777	HG21	ILE	51	9.371	-3.342	14.091	1.00	0.00	H
ATOM	778	HG22	ILE	51	8.546	-2.321	15.280	1.00	0.00	H
ATOM	779	HG23	ILE	51	8.442	-1.925	13.571	1.00	0.00	H
ATOM	780	HD11	ILE	51	9.811	-2.035	17.116	1.00	0.00	H
ATOM	781	HD12	ILE	51	11.482	-1.999	17.711	1.00	0.00	H
ATOM	782	HD13	ILE	51	10.738	-0.518	17.081	1.00	0.00	H
ATOM	783	N	ARG	52	13.120	-2.624	12.731	1.00	0.00	N
ATOM	784	CA	ARG	52	13.942	-3.747	12.285	1.00	0.00	C
ATOM	785	C	ARG	52	14.026	-4.819	13.384	1.00	0.00	C
ATOM	786	O	ARG	52	13.340	-4.740	14.408	1.00	0.00	O
ATOM	787	CB	ARG	52	15.291	-3.219	11.754	1.00	0.00	C
ATOM	788	CG	ARG	52	15.043	-2.220	10.605	1.00	0.00	C
ATOM	789	CD	ARG	52	16.295	-1.829	9.812	1.00	0.00	C
ATOM	790	NE	ARG	52	15.903	-0.927	8.722	1.00	0.00	N
ATOM	791	CZ	ARG	52	16.583	-0.466	7.687	1.00	0.00	C
ATOM	792	NH1	ARG	52	17.850	-0.748	7.482	1.00	0.00	N
ATOM	793	NH2	ARG	52	15.948	0.296	6.829	1.00	0.00	N
ATOM	794	H	ARG	52	13.598	-1.811	13.113	1.00	0.00	H

ATOM	795	HA	ARG	52	13.438	-4.217	11.440	1.00	0.00	H
ATOM	796	HB2	ARG	52	15.855	-2.739	12.555	1.00	0.00	H
ATOM	797	HB3	ARG	52	15.871	-4.053	11.364	1.00	0.00	H
ATOM	798	HG2	ARG	52	14.327	-2.663	9.910	1.00	0.00	H
ATOM	799	HG3	ARG	52	14.600	-1.307	11.009	1.00	0.00	H
ATOM	800	HD2	ARG	52	17.000	-1.323	10.473	1.00	0.00	H
ATOM	801	HD3	ARG	52	16.753	-2.725	9.398	1.00	0.00	H
ATOM	802	HE	ARG	52	14.925	-0.621	8.734	1.00	0.00	H
ATOM	803	HH11	ARG	52	18.307	-1.380	8.113	1.00	0.00	H
ATOM	804	HH12	ARG	52	18.313	-0.407	6.659	1.00	0.00	H
ATOM	805	HH21	ARG	52	14.951	0.450	7.037	1.00	0.00	H
ATOM	806	HH22	ARG	52	16.383	0.707	6.029	1.00	0.00	H
ATOM	807	N	LEU	53	14.813	-5.880	13.169	1.00	0.00	N
ATOM	808	CA	LEU	53	14.826	-7.029	14.083	1.00	0.00	C
ATOM	809	C	LEU	53	15.491	-6.741	15.432	1.00	0.00	C
ATOM	810	O	LEU	53	16.312	-5.839	15.592	1.00	0.00	O
ATOM	811	CB	LEU	53	15.476	-8.262	13.415	1.00	0.00	C
ATOM	812	CG	LEU	53	14.554	-9.142	12.544	1.00	0.00	C
ATOM	813	CD1	LEU	53	15.353	-10.360	12.044	1.00	0.00	C
ATOM	814	CD2	LEU	53	13.273	-9.566	13.284	1.00	0.00	C
ATOM	815	H	LEU	53	15.412	-5.894	12.353	1.00	0.00	H
ATOM	816	HA	LEU	53	13.791	-7.253	14.335	1.00	0.00	H
ATOM	817	HB2	LEU	53	15.870	-8.910	14.197	1.00	0.00	H
ATOM	818	HB3	LEU	53	16.329	-7.942	12.819	1.00	0.00	H
ATOM	819	HG	LEU	53	14.248	-8.575	11.674	1.00	0.00	H
ATOM	820	HD11	LEU	53	16.238	-10.540	12.655	1.00	0.00	H
ATOM	821	HD12	LEU	53	14.740	-11.263	12.066	1.00	0.00	H
ATOM	822	HD13	LEU	53	15.668	-10.187	11.015	1.00	0.00	H
ATOM	823	HD21	LEU	53	12.716	-10.274	12.677	1.00	0.00	H
ATOM	824	HD22	LEU	53	13.520	-10.024	14.242	1.00	0.00	H
ATOM	825	HD23	LEU	53	12.618	-8.711	13.439	1.00	0.00	H
ATOM	826	N	LYS	54	15.201	-7.634	16.381	1.00	0.00	N
ATOM	827	CA	LYS	54	15.892	-7.783	17.665	1.00	0.00	C
ATOM	828	C	LYS	54	17.420	-7.873	17.495	1.00	0.00	C
ATOM	829	O	LYS	54	18.164	-7.154	18.146	1.00	0.00	O
ATOM	830	CB	LYS	54	15.289	-9.042	18.313	1.00	0.00	C
ATOM	831	CG	LYS	54	15.625	-9.218	19.801	1.00	0.00	C
ATOM	832	CD	LYS	54	14.726	-10.320	20.389	1.00	0.00	C
ATOM	833	CE	LYS	54	14.749	-10.308	21.922	1.00	0.00	C
ATOM	834	NZ	LYS	54	13.566	-11.007	22.486	1.00	0.00	N
ATOM	835	H	LYS	54	14.497	-8.323	16.165	1.00	0.00	H
ATOM	836	HA	LYS	54	15.685	-6.911	18.292	1.00	0.00	H
ATOM	837	HB2	LYS	54	14.203	-8.970	18.219	1.00	0.00	H
ATOM	838	HB3	LYS	54	15.610	-9.930	17.766	1.00	0.00	H
ATOM	839	HG2	LYS	54	16.675	-9.487	19.922	1.00	0.00	H
ATOM	840	HG3	LYS	54	15.437	-8.281	20.323	1.00	0.00	H
ATOM	841	HD2	LYS	54	13.699	-10.153	20.056	1.00	0.00	H
ATOM	842	HD3	LYS	54	15.053	-11.292	20.017	1.00	0.00	H
ATOM	843	HE2	LYS	54	15.680	-10.771	22.266	1.00	0.00	H
ATOM	844	HE3	LYS	54	14.744	-9.267	22.259	1.00	0.00	H
ATOM	845	HZ1	LYS	54	13.495	-11.952	22.129	1.00	0.00	H
ATOM	846	HZ2	LYS	54	13.619	-11.046	23.495	1.00	0.00	H
ATOM	847	HZ3	LYS	54	12.721	-10.508	22.234	1.00	0.00	H
ATOM	848	N	SER	55	17.893	-8.676	16.540	1.00	0.00	N
ATOM	849	CA	SER	55	19.315	-8.803	16.160	1.00	0.00	C
ATOM	850	C	SER	55	19.847	-7.637	15.305	1.00	0.00	C
ATOM	851	O	SER	55	20.973	-7.684	14.817	1.00	0.00	O



ATOM	852	CB	SER	55	19.529	-10.123	15.408	1.00	0.00	C
ATOM	853	OG	SER	55	18.895	-11.192	16.089	1.00	0.00	O
ATOM	854	H	SER	55	17.250	-9.305	16.088	1.00	0.00	H
ATOM	855	HA	SER	55	19.928	-8.828	17.065	1.00	0.00	H
ATOM	856	HB2	SER	55	19.106	-10.038	14.405	1.00	0.00	H
ATOM	857	HB3	SER	55	20.599	-10.320	15.324	1.00	0.00	H
ATOM	858	HG	SER	55	19.103	-12.018	15.635	1.00	0.00	H
ATOM	859	N	ASN	56	19.044	-6.596	15.079	1.00	0.00	N
ATOM	860	CA	ASN	56	19.488	-5.299	14.553	1.00	0.00	C
ATOM	861	C	ASN	56	19.413	-4.211	15.646	1.00	0.00	C
ATOM	862	O	ASN	56	19.385	-3.019	15.336	1.00	0.00	O
ATOM	863	CB	ASN	56	18.633	-4.910	13.331	1.00	0.00	C
ATOM	864	CG	ASN	56	18.513	-5.973	12.244	1.00	0.00	C
ATOM	865	ND2	ASN	56	19.449	-6.894	12.100	1.00	0.00	N
ATOM	866	OD1	ASN	56	17.537	-5.995	11.511	1.00	0.00	O
ATOM	867	H	ASN	56	18.099	-6.630	15.439	1.00	0.00	H
ATOM	868	HA	ASN	56	20.529	-5.366	14.238	1.00	0.00	H
ATOM	869	HB2	ASN	56	17.629	-4.654	13.670	1.00	0.00	H
ATOM	870	HB3	ASN	56	19.071	-4.021	12.877	1.00	0.00	H
ATOM	871	HD21	ASN	56	19.340	-7.574	11.368	1.00	0.00	H
ATOM	872	HD22	ASN	56	20.214	-6.955	12.765	1.00	0.00	H
ATOM	873	N	ASN	57	19.281	-4.618	16.916	1.00	0.00	N
ATOM	874	CA	ASN	57	19.106	-3.760	18.093	1.00	0.00	C
ATOM	875	C	ASN	57	17.795	-2.944	18.045	1.00	0.00	C
ATOM	876	O	ASN	57	17.732	-1.850	18.600	1.00	0.00	O
ATOM	877	CB	ASN	57	20.363	-2.900	18.331	1.00	0.00	C
ATOM	878	CG	ASN	57	21.631	-3.743	18.393	1.00	0.00	C
ATOM	879	ND2	ASN	57	22.654	-3.384	17.640	1.00	0.00	N
ATOM	880	OD1	ASN	57	21.709	-4.740	19.091	1.00	0.00	O
ATOM	881	H	ASN	57	19.296	-5.614	17.096	1.00	0.00	H
ATOM	882	HA	ASN	57	19.011	-4.429	18.949	1.00	0.00	H
ATOM	883	HB2	ASN	57	20.452	-2.151	17.544	1.00	0.00	H
ATOM	884	HB3	ASN	57	20.265	-2.373	19.281	1.00	0.00	H
ATOM	885	HD21	ASN	57	23.487	-3.947	17.698	1.00	0.00	H
ATOM	886	HD22	ASN	57	22.595	-2.568	17.059	1.00	0.00	H
ATOM	887	N	TYR	58	16.767	-3.453	17.341	1.00	0.00	N
ATOM	888	CA	TYR	58	15.441	-2.833	17.180	1.00	0.00	C
ATOM	889	C	TYR	58	15.459	-1.426	16.536	1.00	0.00	C
ATOM	890	O	TYR	58	14.509	-0.662	16.693	1.00	0.00	O
ATOM	891	CB	TYR	58	14.668	-2.871	18.515	1.00	0.00	C
ATOM	892	CG	TYR	58	14.191	-4.239	18.959	1.00	0.00	C
ATOM	893	CD1	TYR	58	13.352	-4.994	18.116	1.00	0.00	C
ATOM	894	CD2	TYR	58	14.495	-4.717	20.248	1.00	0.00	C
ATOM	895	CE1	TYR	58	12.802	-6.205	18.567	1.00	0.00	C
ATOM	896	CE2	TYR	58	13.933	-5.924	20.711	1.00	0.00	C
ATOM	897	CZ	TYR	58	13.063	-6.661	19.878	1.00	0.00	C
ATOM	898	OH	TYR	58	12.465	-7.800	20.328	1.00	0.00	O
ATOM	899	H	TYR	58	16.908	-4.345	16.886	1.00	0.00	H
ATOM	900	HA	TYR	58	14.893	-3.449	16.468	1.00	0.00	H
ATOM	901	HB2	TYR	58	15.268	-2.413	19.303	1.00	0.00	H
ATOM	902	HB3	TYR	58	13.769	-2.263	18.421	1.00	0.00	H
ATOM	903	HD1	TYR	58	13.109	-4.628	17.128	1.00	0.00	H
ATOM	904	HD2	TYR	58	15.128	-4.130	20.900	1.00	0.00	H
ATOM	905	HE1	TYR	58	12.158	-6.781	17.923	1.00	0.00	H
ATOM	906	HE2	TYR	58	14.131	-6.259	21.718	1.00	0.00	H
ATOM	907	HH	TYR	58	11.773	-8.092	19.705	1.00	0.00	H
ATOM	908	N	ALA	59	16.521	-1.092	15.790	1.00	0.00	N

ATOM	909	CA	ALA	59	16.662	0.173	15.062	1.00	0.00	C
ATOM	910	C	ALA	59	15.404	0.548	14.245	1.00	0.00	C
ATOM	911	O	ALA	59	14.800	-0.313	13.591	1.00	0.00	O
ATOM	912	CB	ALA	59	17.906	0.076	14.170	1.00	0.00	C
ATOM	913	H	ALA	59	17.295	-1.738	15.758	1.00	0.00	H
ATOM	914	HA	ALA	59	16.824	0.962	15.801	1.00	0.00	H
ATOM	915	HB1	ALA	59	17.763	-0.704	13.420	1.00	0.00	H
ATOM	916	HB2	ALA	59	18.067	1.029	13.665	1.00	0.00	H
ATOM	917	HB3	ALA	59	18.784	-0.160	14.774	1.00	0.00	H
ATOM	918	N	THR	60	15.040	1.839	14.287	1.00	0.00	N
ATOM	919	CA	THR	60	13.844	2.419	13.664	1.00	0.00	C
ATOM	920	C	THR	60	14.208	3.525	12.677	1.00	0.00	C
ATOM	921	O	THR	60	15.215	4.215	12.819	1.00	0.00	O
ATOM	922	CB	THR	60	12.877	2.972	14.723	1.00	0.00	C
ATOM	923	CG2	THR	60	12.454	1.919	15.744	1.00	0.00	C
ATOM	924	OG1	THR	60	13.466	4.019	15.460	1.00	0.00	O
ATOM	925	H	THR	60	15.595	2.485	14.825	1.00	0.00	H
ATOM	926	HA	THR	60	13.321	1.644	13.105	1.00	0.00	H
ATOM	927	HB	THR	60	11.985	3.349	14.219	1.00	0.00	H
ATOM	928	HG1	THR	60	12.755	4.443	15.951	1.00	0.00	H
ATOM	929	HG21	THR	60	13.310	1.603	16.337	1.00	0.00	H
ATOM	930	HG22	THR	60	11.709	2.336	16.420	1.00	0.00	H
ATOM	931	HG23	THR	60	12.035	1.057	15.228	1.00	0.00	H
ATOM	932	N	HIE	61	13.347	3.703	11.678	1.00	0.00	N
ATOM	933	CA	HIE	61	13.410	4.782	10.694	1.00	0.00	C
ATOM	934	C	HIE	61	11.993	5.326	10.447	1.00	0.00	C
ATOM	935	O	HIE	61	10.999	4.620	10.630	1.00	0.00	O
ATOM	936	CB	HIE	61	14.077	4.301	9.387	1.00	0.00	C
ATOM	937	CG	HIE	61	15.450	3.699	9.544	1.00	0.00	C
ATOM	938	CD2	HIE	61	16.625	4.396	9.528	1.00	0.00	C
ATOM	939	ND1	HIE	61	15.733	2.340	9.699	1.00	0.00	N
ATOM	940	CE1	HIE	61	17.065	2.259	9.832	1.00	0.00	C
ATOM	941	NE2	HIE	61	17.629	3.476	9.728	1.00	0.00	N
ATOM	942	H	HIE	61	12.515	3.130	11.680	1.00	0.00	H
ATOM	943	HA	HIE	61	14.012	5.596	11.107	1.00	0.00	H
ATOM	944	HB2	HIE	61	13.439	3.570	8.905	1.00	0.00	H
ATOM	945	HB3	HIE	61	14.159	5.152	8.709	1.00	0.00	H
ATOM	946	HD2	HIE	61	16.735	5.466	9.432	1.00	0.00	H
ATOM	947	HE1	HIE	61	17.605	1.341	10.018	1.00	0.00	H
ATOM	948	HE2	HIE	61	18.614	3.678	9.839	1.00	0.00	H
ATOM	949	N	TYR	62	11.890	6.590	10.032	1.00	0.00	N
ATOM	950	CA	TYR	62	10.619	7.316	9.902	1.00	0.00	C
ATOM	951	C	TYR	62	10.621	8.208	8.660	1.00	0.00	C
ATOM	952	O	TYR	62	11.675	8.718	8.275	1.00	0.00	O
ATOM	953	CB	TYR	62	10.410	8.214	11.134	1.00	0.00	C
ATOM	954	CG	TYR	62	10.532	7.539	12.487	1.00	0.00	C
ATOM	955	CD1	TYR	62	9.379	7.136	13.181	1.00	0.00	C
ATOM	956	CD2	TYR	62	11.804	7.334	13.059	1.00	0.00	C
ATOM	957	CE1	TYR	62	9.496	6.486	14.425	1.00	0.00	C
ATOM	958	CE2	TYR	62	11.929	6.694	14.303	1.00	0.00	C
ATOM	959	CZ	TYR	62	10.774	6.259	14.988	1.00	0.00	C
ATOM	960	OH	TYR	62	10.897	5.622	16.184	1.00	0.00	O
ATOM	961	H	TYR	62	12.733	7.102	9.825	1.00	0.00	H
ATOM	962	HA	TYR	62	9.788	6.615	9.819	1.00	0.00	H
ATOM	963	HB2	TYR	62	11.146	9.012	11.097	1.00	0.00	H
ATOM	964	HB3	TYR	62	9.426	8.680	11.060	1.00	0.00	H
ATOM	965	HD1	TYR	62	8.402	7.321	12.758	1.00	0.00	H

ATOM	966	HD2	TYR	62	12.694	7.649	12.533	1.00	0.00	H
ATOM	967	HE1	TYR	62	8.608	6.173	14.951	1.00	0.00	H
ATOM	968	HE2	TYR	62	12.907	6.524	14.729	1.00	0.00	H
ATOM	969	HH	TYR	62	10.043	5.403	16.551	1.00	0.00	H
ATOM	970	N	ALA	63	9.437	8.463	8.096	1.00	0.00	N
ATOM	971	CA	ALA	63	9.246	9.447	7.036	1.00	0.00	C
ATOM	972	C	ALA	63	9.173	10.866	7.610	1.00	0.00	C
ATOM	973	O	ALA	63	8.512	11.098	8.626	1.00	0.00	O
ATOM	974	CB	ALA	63	7.965	9.115	6.271	1.00	0.00	C
ATOM	975	H	ALA	63	8.611	8.004	8.459	1.00	0.00	H
ATOM	976	HA	ALA	63	10.089	9.393	6.342	1.00	0.00	H
ATOM	977	HB1	ALA	63	7.106	9.144	6.945	1.00	0.00	H
ATOM	978	HB2	ALA	63	7.807	9.837	5.469	1.00	0.00	H
ATOM	979	HB3	ALA	63	8.043	8.122	5.835	1.00	0.00	H
ATOM	980	N	GLU	64	9.815	11.812	6.922	1.00	0.00	N
ATOM	981	CA	GLU	64	9.980	13.218	7.328	1.00	0.00	C
ATOM	982	C	GLU	64	8.702	13.911	7.833	1.00	0.00	C
ATOM	983	O	GLU	64	8.782	14.811	8.662	1.00	0.00	O
ATOM	984	CB	GLU	64	10.555	14.045	6.159	1.00	0.00	C
ATOM	985	CG	GLU	64	11.744	13.412	5.424	1.00	0.00	C
ATOM	986	CD	GLU	64	12.807	12.897	6.386	1.00	0.00	C
ATOM	987	OE1	GLU	64	13.429	13.693	7.115	1.00	0.00	O
ATOM	988	OE2	GLU	64	12.987	11.660	6.465	1.00	0.00	O
ATOM	989	H	GLU	64	10.426	11.493	6.182	1.00	0.00	H
ATOM	990	HA	GLU	64	10.704	13.246	8.142	1.00	0.00	H
ATOM	991	HB2	GLU	64	9.766	14.228	5.427	1.00	0.00	H
ATOM	992	HB3	GLU	64	10.872	15.010	6.549	1.00	0.00	H
ATOM	993	HG2	GLU	64	11.388	12.589	4.799	1.00	0.00	H
ATOM	994	HG3	GLU	64	12.191	14.154	4.761	1.00	0.00	H
ATOM	995	N	SER	65	7.510	13.501	7.394	1.00	0.00	N
ATOM	996	CA	SER	65	6.253	14.085	7.873	1.00	0.00	C
ATOM	997	C	SER	65	5.920	13.739	9.340	1.00	0.00	C
ATOM	998	O	SER	65	5.254	14.544	9.996	1.00	0.00	O
ATOM	999	CB	SER	65	5.099	13.720	6.918	1.00	0.00	C
ATOM	1000	OG	SER	65	5.138	12.377	6.463	1.00	0.00	O
ATOM	1001	H	SER	65	7.443	12.720	6.750	1.00	0.00	H
ATOM	1002	HA	SER	65	6.360	15.172	7.850	1.00	0.00	H
ATOM	1003	HB2	SER	65	4.147	13.907	7.415	1.00	0.00	H
ATOM	1004	HB3	SER	65	5.159	14.371	6.046	1.00	0.00	H
ATOM	1005	HG	SER	65	4.390	12.233	5.831	1.00	0.00	H
ATOM	1006	N	VAL	66	6.391	12.606	9.880	1.00	0.00	N
ATOM	1007	CA	VAL	66	6.128	12.128	11.267	1.00	0.00	C
ATOM	1008	C	VAL	66	7.395	11.934	12.118	1.00	0.00	C
ATOM	1009	O	VAL	66	7.314	11.619	13.309	1.00	0.00	O
ATOM	1010	CB	VAL	66	5.352	10.790	11.275	1.00	0.00	C
ATOM	1011	CG1	VAL	66	3.947	10.956	10.686	1.00	0.00	C
ATOM	1012	CG2	VAL	66	6.100	9.669	10.537	1.00	0.00	C
ATOM	1013	H	VAL	66	6.979	12.029	9.274	1.00	0.00	H
ATOM	1014	HA	VAL	66	5.519	12.874	11.777	1.00	0.00	H
ATOM	1015	HB	VAL	66	5.225	10.477	12.310	1.00	0.00	H
ATOM	1016	HG11	VAL	66	4.003	11.281	9.646	1.00	0.00	H
ATOM	1017	HG12	VAL	66	3.421	10.002	10.730	1.00	0.00	H
ATOM	1018	HG13	VAL	66	3.388	11.690	11.266	1.00	0.00	H
ATOM	1019	HG21	VAL	66	7.107	9.547	10.939	1.00	0.00	H
ATOM	1020	HG22	VAL	66	5.567	8.734	10.676	1.00	0.00	H
ATOM	1021	HG23	VAL	66	6.160	9.887	9.470	1.00	0.00	H
ATOM	1022	N	LYS	67	8.572	12.078	11.512	1.00	0.00	N

ATOM	1023	CA	LYS	67	9.880	11.791	12.097	1.00	0.00	C
ATOM	1024	C	LYS	67	10.142	12.628	13.361	1.00	0.00	C
ATOM	1025	O	LYS	67	10.000	13.849	13.341	1.00	0.00	O
ATOM	1026	CB	LYS	67	10.874	12.057	10.964	1.00	0.00	C
ATOM	1027	CG	LYS	67	12.357	11.744	11.202	1.00	0.00	C
ATOM	1028	CD	LYS	67	13.007	11.913	9.823	1.00	0.00	C
ATOM	1029	CE	LYS	67	14.494	11.580	9.733	1.00	0.00	C
ATOM	1030	NZ	LYS	67	14.916	11.803	8.332	1.00	0.00	N
ATOM	1031	H	LYS	67	8.570	12.424	10.561	1.00	0.00	H
ATOM	1032	HA	LYS	67	9.921	10.739	12.370	1.00	0.00	H
ATOM	1033	HB2	LYS	67	10.547	11.448	10.123	1.00	0.00	H
ATOM	1034	HB3	LYS	67	10.781	13.105	10.666	1.00	0.00	H
ATOM	1035	HG2	LYS	67	12.784	12.452	11.911	1.00	0.00	H
ATOM	1036	HG3	LYS	67	12.489	10.726	11.563	1.00	0.00	H
ATOM	1037	HD2	LYS	67	12.493	11.269	9.109	1.00	0.00	H
ATOM	1038	HD3	LYS	67	12.869	12.948	9.504	1.00	0.00	H
ATOM	1039	HE2	LYS	67	15.051	12.233	10.408	1.00	0.00	H
ATOM	1040	HE3	LYS	67	14.655	10.540	10.021	1.00	0.00	H
ATOM	1041	HZ1	LYS	67	14.656	12.749	8.036	1.00	0.00	H
ATOM	1042	HZ2	LYS	67	15.892	11.642	8.155	1.00	0.00	H
ATOM	1043	HZ3	LYS	67	14.336	11.264	7.686	1.00	0.00	H
ATOM	1044	N	GLY	68	10.463	11.965	14.478	1.00	0.00	N
ATOM	1045	CA	GLY	68	10.664	12.604	15.790	1.00	0.00	C
ATOM	1046	C	GLY	68	9.376	12.908	16.570	1.00	0.00	C
ATOM	1047	O	GLY	68	9.475	13.235	17.746	1.00	0.00	O
ATOM	1048	H	GLY	68	10.544	10.961	14.434	1.00	0.00	H
ATOM	1049	HA2	GLY	68	11.266	11.946	16.415	1.00	0.00	H
ATOM	1050	HA3	GLY	68	11.189	13.552	15.660	1.00	0.00	H
ATOM	1051	N	ARG	69	8.185	12.784	15.959	1.00	0.00	N
ATOM	1052	CA	ARG	69	6.879	12.912	16.640	1.00	0.00	C
ATOM	1053	C	ARG	69	6.304	11.552	17.061	1.00	0.00	C
ATOM	1054	O	ARG	69	5.784	11.393	18.164	1.00	0.00	O
ATOM	1055	CB	ARG	69	5.850	13.593	15.722	1.00	0.00	C
ATOM	1056	CG	ARG	69	6.238	15.013	15.301	1.00	0.00	C
ATOM	1057	CD	ARG	69	5.045	15.749	14.675	1.00	0.00	C
ATOM	1058	NE	ARG	69	4.641	15.196	13.363	1.00	0.00	N
ATOM	1059	CZ	ARG	69	3.434	14.743	13.030	1.00	0.00	C
ATOM	1060	NH1	ARG	69	2.449	14.630	13.886	1.00	0.00	N
ATOM	1061	NH2	ARG	69	3.168	14.406	11.792	1.00	0.00	N
ATOM	1062	H	ARG	69	8.183	12.548	14.978	1.00	0.00	H
ATOM	1063	HA	ARG	69	6.997	13.518	17.540	1.00	0.00	H
ATOM	1064	HB2	ARG	69	5.683	12.988	14.831	1.00	0.00	H
ATOM	1065	HB3	ARG	69	4.909	13.647	16.269	1.00	0.00	H
ATOM	1066	HG2	ARG	69	6.549	15.569	16.186	1.00	0.00	H
ATOM	1067	HG3	ARG	69	7.065	14.985	14.594	1.00	0.00	H
ATOM	1068	HD2	ARG	69	4.211	15.729	15.379	1.00	0.00	H
ATOM	1069	HD3	ARG	69	5.330	16.791	14.543	1.00	0.00	H
ATOM	1070	HE	ARG	69	5.335	15.176	12.631	1.00	0.00	H
ATOM	1071	HH11	ARG	69	2.508	14.947	14.843	1.00	0.00	H
ATOM	1072	HH12	ARG	69	1.542	14.324	13.528	1.00	0.00	H
ATOM	1073	HH21	ARG	69	3.870	14.474	11.064	1.00	0.00	H
ATOM	1074	HH22	ARG	69	2.259	13.995	11.557	1.00	0.00	H
ATOM	1075	N	PHE	70	6.362	10.580	16.147	1.00	0.00	N
ATOM	1076	CA	PHE	70	5.869	9.220	16.360	1.00	0.00	C
ATOM	1077	C	PHE	70	7.033	8.307	16.764	1.00	0.00	C
ATOM	1078	O	PHE	70	8.161	8.495	16.301	1.00	0.00	O
ATOM	1079	CB	PHE	70	5.199	8.700	15.078	1.00	0.00	C

ATOM	1080	CG	PHE	70	3.881	9.319	14.627	1.00	0.00	C
ATOM	1081	CD1	PHE	70	3.376	10.538	15.132	1.00	0.00	C
ATOM	1082	CD2	PHE	70	3.143	8.635	13.643	1.00	0.00	C
ATOM	1083	CE1	PHE	70	2.164	11.063	14.645	1.00	0.00	C
ATOM	1084	CE2	PHE	70	1.929	9.152	13.165	1.00	0.00	C
ATOM	1085	CZ	PHE	70	1.439	10.369	13.663	1.00	0.00	C
ATOM	1086	H	PHE	70	6.803	10.781	15.264	1.00	0.00	H
ATOM	1087	HA	PHE	70	5.135	9.210	17.169	1.00	0.00	H
ATOM	1088	HB2	PHE	70	5.915	8.788	14.257	1.00	0.00	H
ATOM	1089	HB3	PHE	70	5.015	7.633	15.222	1.00	0.00	H
ATOM	1090	HD1	PHE	70	3.895	11.090	15.895	1.00	0.00	H
ATOM	1091	HD2	PHE	70	3.515	7.701	13.249	1.00	0.00	H
ATOM	1092	HE1	PHE	70	1.788	11.998	15.033	1.00	0.00	H
ATOM	1093	HE2	PHE	70	1.368	8.612	12.417	1.00	0.00	H
ATOM	1094	HZ	PHE	70	0.499	10.763	13.303	1.00	0.00	H
ATOM	1095	N	THR	71	6.714	7.295	17.575	1.00	0.00	N
ATOM	1096	CA	THR	71	7.606	6.287	18.171	1.00	0.00	C
ATOM	1097	C	THR	71	7.085	4.905	17.781	1.00	0.00	C
ATOM	1098	O	THR	71	5.874	4.719	17.664	1.00	0.00	O
ATOM	1099	CB	THR	71	7.597	6.468	19.697	1.00	0.00	C
ATOM	1100	CG2	THR	71	8.483	5.474	20.450	1.00	0.00	C
ATOM	1101	OG1	THR	71	8.091	7.750	19.982	1.00	0.00	O
ATOM	1102	H	THR	71	5.732	7.209	17.820	1.00	0.00	H
ATOM	1103	HA	THR	71	8.622	6.429	17.810	1.00	0.00	H
ATOM	1104	HB	THR	71	6.575	6.394	20.069	1.00	0.00	H
ATOM	1105	HG1	THR	71	7.745	8.027	20.836	1.00	0.00	H
ATOM	1106	HG21	THR	71	9.501	5.522	20.065	1.00	0.00	H
ATOM	1107	HG22	THR	71	8.495	5.730	21.510	1.00	0.00	H
ATOM	1108	HG23	THR	71	8.097	4.460	20.346	1.00	0.00	H
ATOM	1109	N	ILE	72	7.953	3.912	17.594	1.00	0.00	N
ATOM	1110	CA	ILE	72	7.534	2.545	17.227	1.00	0.00	C
ATOM	1111	C	ILE	72	8.306	1.515	18.055	1.00	0.00	C
ATOM	1112	O	ILE	72	9.501	1.664	18.306	1.00	0.00	O
ATOM	1113	CB	ILE	72	7.622	2.324	15.693	1.00	0.00	C
ATOM	1114	CG1	ILE	72	7.006	0.964	15.276	1.00	0.00	C
ATOM	1115	CG2	ILE	72	9.060	2.462	15.168	1.00	0.00	C
ATOM	1116	CD1	ILE	72	6.897	0.736	13.762	1.00	0.00	C
ATOM	1117	H	ILE	72	8.927	4.046	17.830	1.00	0.00	H
ATOM	1118	HA	ILE	72	6.488	2.421	17.505	1.00	0.00	H
ATOM	1119	HB	ILE	72	7.025	3.107	15.221	1.00	0.00	H
ATOM	1120	HG12	ILE	72	7.591	0.148	15.705	1.00	0.00	H
ATOM	1121	HG13	ILE	72	5.997	0.907	15.678	1.00	0.00	H
ATOM	1122	HG21	ILE	72	9.668	1.649	15.556	1.00	0.00	H
ATOM	1123	HG22	ILE	72	9.075	2.433	14.080	1.00	0.00	H
ATOM	1124	HG23	ILE	72	9.489	3.412	15.479	1.00	0.00	H
ATOM	1125	HD11	ILE	72	7.886	0.671	13.312	1.00	0.00	H
ATOM	1126	HD12	ILE	72	6.377	-0.205	13.579	1.00	0.00	H
ATOM	1127	HD13	ILE	72	6.338	1.549	13.301	1.00	0.00	H
ATOM	1128	N	SER	73	7.615	0.468	18.490	1.00	0.00	N
ATOM	1129	CA	SER	73	8.205	-0.638	19.246	1.00	0.00	C
ATOM	1130	C	SER	73	7.464	-1.950	18.954	1.00	0.00	C
ATOM	1131	O	SER	73	6.396	-1.943	18.337	1.00	0.00	O
ATOM	1132	CB	SER	73	8.301	-0.321	20.748	1.00	0.00	C
ATOM	1133	OG	SER	73	7.045	-0.129	21.395	1.00	0.00	O
ATOM	1134	H	SER	73	6.647	0.349	18.204	1.00	0.00	H
ATOM	1135	HA	SER	73	9.228	-0.772	18.902	1.00	0.00	H
ATOM	1136	HB2	SER	73	8.832	-1.137	21.243	1.00	0.00	H

ATOM	1137	HB3	SER	73	8.901	0.582	20.873	1.00	0.00	H
ATOM	1138	HG	SER	73	7.237	0.036	22.323	1.00	0.00	H
ATOM	1139	N	ARG	74	8.049	-3.085	19.354	1.00	0.00	N
ATOM	1140	CA	ARG	74	7.547	-4.432	19.056	1.00	0.00	C
ATOM	1141	C	ARG	74	7.927	-5.417	20.154	1.00	0.00	C
ATOM	1142	O	ARG	74	8.922	-5.218	20.853	1.00	0.00	O
ATOM	1143	CB	ARG	74	8.071	-4.932	17.697	1.00	0.00	C
ATOM	1144	CG	ARG	74	9.595	-5.143	17.641	1.00	0.00	C
ATOM	1145	CD	ARG	74	10.051	-5.648	16.266	1.00	0.00	C
ATOM	1146	NE	ARG	74	10.043	-7.119	16.182	1.00	0.00	N
ATOM	1147	CZ	ARG	74	9.995	-7.845	15.071	1.00	0.00	C
ATOM	1148	NH1	ARG	74	9.872	-7.304	13.875	1.00	0.00	N
ATOM	1149	NH2	ARG	74	10.082	-9.147	15.158	1.00	0.00	N
ATOM	1150	H	ARG	74	8.902	-3.042	19.895	1.00	0.00	H
ATOM	1151	HA	ARG	74	6.458	-4.395	19.008	1.00	0.00	H
ATOM	1152	HB2	ARG	74	7.586	-5.881	17.474	1.00	0.00	H
ATOM	1153	HB3	ARG	74	7.784	-4.212	16.929	1.00	0.00	H
ATOM	1154	HG2	ARG	74	10.093	-4.197	17.845	1.00	0.00	H
ATOM	1155	HG3	ARG	74	9.905	-5.857	18.403	1.00	0.00	H
ATOM	1156	HD2	ARG	74	9.414	-5.211	15.496	1.00	0.00	H
ATOM	1157	HD3	ARG	74	11.072	-5.307	16.094	1.00	0.00	H
ATOM	1158	HE	ARG	74	10.130	-7.636	17.059	1.00	0.00	H
ATOM	1159	HH11	ARG	74	9.819	-6.306	13.779	1.00	0.00	H
ATOM	1160	HH12	ARG	74	9.933	-7.890	13.048	1.00	0.00	H
ATOM	1161	HH21	ARG	74	10.297	-9.601	16.046	1.00	0.00	H
ATOM	1162	HH22	ARG	74	9.893	-9.732	14.353	1.00	0.00	H
ATOM	1163	N	ASP	75	7.133	-6.472	20.285	1.00	0.00	N
ATOM	1164	CA	ASP	75	7.291	-7.494	21.310	1.00	0.00	C
ATOM	1165	C	ASP	75	7.331	-8.897	20.679	1.00	0.00	C
ATOM	1166	O	ASP	75	6.309	-9.477	20.299	1.00	0.00	O
ATOM	1167	CB	ASP	75	6.178	-7.317	22.356	1.00	0.00	C
ATOM	1168	CG	ASP	75	6.397	-8.175	23.603	1.00	0.00	C
ATOM	1169	OD1	ASP	75	6.901	-9.314	23.460	1.00	0.00	O
ATOM	1170	OD2	ASP	75	6.023	-7.716	24.704	1.00	0.00	O
ATOM	1171	H	ASP	75	6.315	-6.529	19.680	1.00	0.00	H
ATOM	1172	HA	ASP	75	8.236	-7.336	21.832	1.00	0.00	H
ATOM	1173	HB2	ASP	75	6.157	-6.269	22.663	1.00	0.00	H
ATOM	1174	HB3	ASP	75	5.211	-7.549	21.907	1.00	0.00	H
ATOM	1175	N	ASP	76	8.549	-9.441	20.599	1.00	0.00	N
ATOM	1176	CA	ASP	76	8.878	-10.772	20.073	1.00	0.00	C
ATOM	1177	C	ASP	76	8.513	-11.934	21.020	1.00	0.00	C
ATOM	1178	O	ASP	76	8.788	-13.089	20.706	1.00	0.00	O
ATOM	1179	CB	ASP	76	10.368	-10.804	19.692	1.00	0.00	C
ATOM	1180	CG	ASP	76	10.654	-9.969	18.445	1.00	0.00	C
ATOM	1181	OD1	ASP	76	10.927	-10.552	17.378	1.00	0.00	O
ATOM	1182	OD2	ASP	76	10.648	-8.720	18.533	1.00	0.00	O
ATOM	1183	H	ASP	76	9.326	-8.838	20.831	1.00	0.00	H
ATOM	1184	HA	ASP	76	8.285	-10.935	19.176	1.00	0.00	H
ATOM	1185	HB2	ASP	76	10.971	-10.443	20.527	1.00	0.00	H
ATOM	1186	HB3	ASP	76	10.671	-11.832	19.485	1.00	0.00	H
ATOM	1187	N	SER	77	7.898	-11.649	22.170	1.00	0.00	N
ATOM	1188	CA	SER	77	7.203	-12.656	22.986	1.00	0.00	C
ATOM	1189	C	SER	77	5.686	-12.669	22.740	1.00	0.00	C
ATOM	1190	O	SER	77	5.056	-13.712	22.891	1.00	0.00	O
ATOM	1191	CB	SER	77	7.506	-12.435	24.480	1.00	0.00	C
ATOM	1192	OG	SER	77	6.845	-11.318	25.049	1.00	0.00	O
ATOM	1193	H	SER	77	7.715	-10.667	22.386	1.00	0.00	H

ATOM	1194	HA	SER	77	7.562	-13.652	22.727	1.00	0.00	H
ATOM	1195	HB2	SER	77	7.194	-13.328	25.023	1.00	0.00	H
ATOM	1196	HB3	SER	77	8.581	-12.317	24.612	1.00	0.00	H
ATOM	1197	HG	SER	77	6.938	-10.526	24.462	1.00	0.00	H
ATOM	1198	N	LYS	78	5.091	-11.537	22.336	1.00	0.00	N
ATOM	1199	CA	LYS	78	3.645	-11.412	22.091	1.00	0.00	C
ATOM	1200	C	LYS	78	3.238	-11.567	20.618	1.00	0.00	C
ATOM	1201	O	LYS	78	2.041	-11.611	20.333	1.00	0.00	O
ATOM	1202	CB	LYS	78	3.180	-10.026	22.568	1.00	0.00	C
ATOM	1203	CG	LYS	78	3.330	-9.812	24.075	1.00	0.00	C
ATOM	1204	CD	LYS	78	2.874	-8.393	24.445	1.00	0.00	C
ATOM	1205	CE	LYS	78	3.227	-8.038	25.895	1.00	0.00	C
ATOM	1206	NZ	LYS	78	2.658	-9.006	26.859	1.00	0.00	N
ATOM	1207	H	LYS	78	5.658	-10.698	22.283	1.00	0.00	H
ATOM	1208	HA	LYS	78	3.107	-12.184	22.642	1.00	0.00	H
ATOM	1209	HB2	LYS	78	3.750	-9.267	22.035	1.00	0.00	H
ATOM	1210	HB3	LYS	78	2.127	-9.896	22.313	1.00	0.00	H
ATOM	1211	HG2	LYS	78	2.717	-10.547	24.602	1.00	0.00	H
ATOM	1212	HG3	LYS	78	4.369	-9.947	24.370	1.00	0.00	H
ATOM	1213	HD2	LYS	78	3.381	-7.676	23.796	1.00	0.00	H
ATOM	1214	HD3	LYS	78	1.800	-8.298	24.282	1.00	0.00	H
ATOM	1215	HE2	LYS	78	4.318	-8.037	25.987	1.00	0.00	H
ATOM	1216	HE3	LYS	78	2.875	-7.025	26.103	1.00	0.00	H
ATOM	1217	HZ1	LYS	78	3.030	-9.924	26.650	1.00	0.00	H
ATOM	1218	HZ2	LYS	78	2.925	-8.758	27.802	1.00	0.00	H
ATOM	1219	HZ3	LYS	78	1.649	-9.032	26.783	1.00	0.00	H
ATOM	1220	N	SER	79	4.197	-11.536	19.687	1.00	0.00	N
ATOM	1221	CA	SER	79	3.942	-11.308	18.256	1.00	0.00	C
ATOM	1222	C	SER	79	3.056	-10.069	18.029	1.00	0.00	C
ATOM	1223	O	SER	79	2.078	-10.098	17.287	1.00	0.00	O
ATOM	1224	CB	SER	79	3.385	-12.566	17.568	1.00	0.00	C
ATOM	1225	OG	SER	79	4.346	-13.607	17.593	1.00	0.00	O
ATOM	1226	H	SER	79	5.149	-11.478	20.016	1.00	0.00	H
ATOM	1227	HA	SER	79	4.892	-11.083	17.783	1.00	0.00	H
ATOM	1228	HB2	SER	79	2.469	-12.889	18.067	1.00	0.00	H
ATOM	1229	HB3	SER	79	3.150	-12.336	16.528	1.00	0.00	H
ATOM	1230	HG	SER	79	3.910	-14.408	17.287	1.00	0.00	H
ATOM	1231	N	SER	80	3.349	-8.966	18.722	1.00	0.00	N
ATOM	1232	CA	SER	80	2.580	-7.719	18.643	1.00	0.00	C
ATOM	1233	C	SER	80	3.484	-6.528	18.328	1.00	0.00	C
ATOM	1234	O	SER	80	4.598	-6.444	18.846	1.00	0.00	O
ATOM	1235	CB	SER	80	1.876	-7.456	19.972	1.00	0.00	C
ATOM	1236	OG	SER	80	0.837	-8.389	20.188	1.00	0.00	O
ATOM	1237	H	SER	80	4.196	-8.958	19.281	1.00	0.00	H
ATOM	1238	HA	SER	80	1.820	-7.793	17.865	1.00	0.00	H
ATOM	1239	HB2	SER	80	2.602	-7.517	20.786	1.00	0.00	H
ATOM	1240	HB3	SER	80	1.446	-6.453	19.967	1.00	0.00	H
ATOM	1241	HG	SER	80	1.149	-9.267	19.926	1.00	0.00	H
ATOM	1242	N	VAL	81	2.989	-5.581	17.525	1.00	0.00	N
ATOM	1243	CA	VAL	81	3.695	-4.328	17.199	1.00	0.00	C
ATOM	1244	C	VAL	81	2.872	-3.114	17.586	1.00	0.00	C
ATOM	1245	O	VAL	81	1.639	-3.155	17.576	1.00	0.00	O
ATOM	1246	CB	VAL	81	4.077	-4.190	15.714	1.00	0.00	C
ATOM	1247	CG1	VAL	81	5.082	-5.260	15.304	1.00	0.00	C
ATOM	1248	CG2	VAL	81	2.880	-4.220	14.749	1.00	0.00	C
ATOM	1249	H	VAL	81	2.017	-5.685	17.219	1.00	0.00	H
ATOM	1250	HA	VAL	81	4.621	-4.284	17.772	1.00	0.00	H

ATOM	1251	HB	VAL	81	4.567	-3.223	15.584	1.00	0.00	H
ATOM	1252	HG11	VAL	81	4.605	-6.236	15.286	1.00	0.00	H
ATOM	1253	HG12	VAL	81	5.461	-5.017	14.318	1.00	0.00	H
ATOM	1254	HG13	VAL	81	5.917	-5.272	15.999	1.00	0.00	H
ATOM	1255	HG21	VAL	81	2.200	-3.399	14.967	1.00	0.00	H
ATOM	1256	HG22	VAL	81	3.230	-4.101	13.724	1.00	0.00	H
ATOM	1257	HG23	VAL	81	2.349	-5.169	14.833	1.00	0.00	H
ATOM	1258	N	TYR	82	3.565	-2.015	17.886	1.00	0.00	N
ATOM	1259	CA	TYR	82	2.973	-0.817	18.460	1.00	0.00	C
ATOM	1260	C	TYR	82	3.436	0.450	17.735	1.00	0.00	C
ATOM	1261	O	TYR	82	4.620	0.797	17.764	1.00	0.00	O
ATOM	1262	CB	TYR	82	3.365	-0.764	19.942	1.00	0.00	C
ATOM	1263	CG	TYR	82	2.951	-1.992	20.733	1.00	0.00	C
ATOM	1264	CD1	TYR	82	1.599	-2.185	21.076	1.00	0.00	C
ATOM	1265	CD2	TYR	82	3.906	-2.971	21.077	1.00	0.00	C
ATOM	1266	CE1	TYR	82	1.199	-3.354	21.751	1.00	0.00	C
ATOM	1267	CE2	TYR	82	3.514	-4.138	21.763	1.00	0.00	C
ATOM	1268	CZ	TYR	82	2.155	-4.336	22.096	1.00	0.00	C
ATOM	1269	OH	TYR	82	1.769	-5.475	22.732	1.00	0.00	O
ATOM	1270	H	TYR	82	4.582	-2.071	17.884	1.00	0.00	H
ATOM	1271	HA	TYR	82	1.887	-0.873	18.396	1.00	0.00	H
ATOM	1272	HB2	TYR	82	4.444	-0.637	20.024	1.00	0.00	H
ATOM	1273	HB3	TYR	82	2.894	0.115	20.369	1.00	0.00	H
ATOM	1274	HD1	TYR	82	0.856	-1.457	20.777	1.00	0.00	H
ATOM	1275	HD2	TYR	82	4.941	-2.849	20.778	1.00	0.00	H
ATOM	1276	HE1	TYR	82	0.154	-3.506	21.981	1.00	0.00	H
ATOM	1277	HE2	TYR	82	4.245	-4.898	22.003	1.00	0.00	H
ATOM	1278	HH	TYR	82	0.814	-5.557	22.790	1.00	0.00	H
ATOM	1279	N	LEU	83	2.486	1.184	17.142	1.00	0.00	N
ATOM	1280	CA	LEU	83	2.728	2.527	16.603	1.00	0.00	C
ATOM	1281	C	LEU	83	2.223	3.556	17.618	1.00	0.00	C
ATOM	1282	O	LEU	83	1.029	3.623	17.908	1.00	0.00	O
ATOM	1283	CB	LEU	83	2.052	2.704	15.225	1.00	0.00	C
ATOM	1284	CG	LEU	83	2.874	3.532	14.216	1.00	0.00	C
ATOM	1285	CD1	LEU	83	1.982	3.873	13.015	1.00	0.00	C
ATOM	1286	CD2	LEU	83	3.458	4.838	14.780	1.00	0.00	C
ATOM	1287	H	LEU	83	1.521	0.870	17.215	1.00	0.00	H
ATOM	1288	HA	LEU	83	3.803	2.665	16.475	1.00	0.00	H
ATOM	1289	HB2	LEU	83	1.876	1.723	14.781	1.00	0.00	H
ATOM	1290	HB3	LEU	83	1.082	3.181	15.360	1.00	0.00	H
ATOM	1291	HG	LEU	83	3.702	2.915	13.864	1.00	0.00	H
ATOM	1292	HD11	LEU	83	1.252	4.636	13.291	1.00	0.00	H
ATOM	1293	HD12	LEU	83	2.599	4.240	12.197	1.00	0.00	H
ATOM	1294	HD13	LEU	83	1.448	2.986	12.678	1.00	0.00	H
ATOM	1295	HD21	LEU	83	4.225	4.624	15.523	1.00	0.00	H
ATOM	1296	HD22	LEU	83	3.924	5.407	13.976	1.00	0.00	H
ATOM	1297	HD23	LEU	83	2.669	5.436	15.236	1.00	0.00	H
ATOM	1298	N	GLN	84	3.123	4.340	18.198	1.00	0.00	N
ATOM	1299	CA	GLN	84	2.791	5.281	19.256	1.00	0.00	C
ATOM	1300	C	GLN	84	2.897	6.691	18.673	1.00	0.00	C
ATOM	1301	O	GLN	84	3.969	7.128	18.265	1.00	0.00	O
ATOM	1302	CB	GLN	84	3.709	4.974	20.451	1.00	0.00	C
ATOM	1303	CG	GLN	84	3.201	5.535	21.783	1.00	0.00	C
ATOM	1304	CD	GLN	84	3.355	7.045	21.872	1.00	0.00	C
ATOM	1305	NE2	GLN	84	2.279	7.791	21.743	1.00	0.00	N
ATOM	1306	OE1	GLN	84	4.449	7.556	22.051	1.00	0.00	O
ATOM	1307	H	GLN	84	4.088	4.329	17.874	1.00	0.00	H



ATOM	1308	HA	GLN	84	1.761	5.135	19.577	1.00	0.00	H
ATOM	1309	HB2	GLN	84	3.770	3.891	20.566	1.00	0.00	H
ATOM	1310	HB3	GLN	84	4.712	5.342	20.250	1.00	0.00	H
ATOM	1311	HG2	GLN	84	2.157	5.256	21.926	1.00	0.00	H
ATOM	1312	HG3	GLN	84	3.781	5.090	22.592	1.00	0.00	H
ATOM	1313	HE21	GLN	84	2.421	8.795	21.804	1.00	0.00	H
ATOM	1314	HE22	GLN	84	1.374	7.409	21.508	1.00	0.00	H
ATOM	1315	N	MET	85	1.756	7.371	18.564	1.00	0.00	N
ATOM	1316	CA	MET	85	1.626	8.640	17.852	1.00	0.00	C
ATOM	1317	C	MET	85	1.514	9.780	18.860	1.00	0.00	C
ATOM	1318	O	MET	85	0.745	9.673	19.814	1.00	0.00	O
ATOM	1319	CB	MET	85	0.386	8.602	16.945	1.00	0.00	C
ATOM	1320	CG	MET	85	0.407	7.397	15.993	1.00	0.00	C
ATOM	1321	SD	MET	85	-0.901	7.377	14.742	1.00	0.00	S
ATOM	1322	CE	MET	85	-2.374	7.302	15.795	1.00	0.00	C
ATOM	1323	H	MET	85	0.923	7.020	19.021	1.00	0.00	H
ATOM	1324	HA	MET	85	2.503	8.806	17.229	1.00	0.00	H
ATOM	1325	HB2	MET	85	-0.515	8.564	17.559	1.00	0.00	H
ATOM	1326	HB3	MET	85	0.366	9.517	16.354	1.00	0.00	H
ATOM	1327	HG2	MET	85	1.362	7.397	15.467	1.00	0.00	H
ATOM	1328	HG3	MET	85	0.345	6.473	16.569	1.00	0.00	H
ATOM	1329	HE1	MET	85	-2.509	8.251	16.313	1.00	0.00	H
ATOM	1330	HE2	MET	85	-3.248	7.121	15.172	1.00	0.00	H
ATOM	1331	HE3	MET	85	-2.279	6.497	16.518	1.00	0.00	H
ATOM	1332	N	ASN	86	2.247	10.872	18.635	1.00	0.00	N
ATOM	1333	CA	ASN	86	2.221	12.084	19.458	1.00	0.00	C
ATOM	1334	C	ASN	86	2.227	13.332	18.586	1.00	0.00	C
ATOM	1335	O	ASN	86	2.685	13.300	17.441	1.00	0.00	O
ATOM	1336	CB	ASN	86	3.430	12.169	20.402	1.00	0.00	C
ATOM	1337	CG	ASN	86	3.679	10.880	21.149	1.00	0.00	C
ATOM	1338	ND2	ASN	86	4.645	10.099	20.711	1.00	0.00	N
ATOM	1339	OD1	ASN	86	2.958	10.551	22.081	1.00	0.00	O
ATOM	1340	H	ASN	86	2.833	10.895	17.816	1.00	0.00	H
ATOM	1341	HA	ASN	86	1.309	12.094	20.052	1.00	0.00	H
ATOM	1342	HB2	ASN	86	4.322	12.439	19.841	1.00	0.00	H
ATOM	1343	HB3	ASN	86	3.263	12.960	21.134	1.00	0.00	H
ATOM	1344	HD21	ASN	86	4.818	9.229	21.206	1.00	0.00	H
ATOM	1345	HD22	ASN	86	5.208	10.383	19.919	1.00	0.00	H
ATOM	1346	N	ASN	87	1.743	14.444	19.150	1.00	0.00	N
ATOM	1347	CA	ASN	87	1.740	15.758	18.500	1.00	0.00	C
ATOM	1348	C	ASN	87	0.945	15.675	17.183	1.00	0.00	C
ATOM	1349	O	ASN	87	1.463	16.032	16.120	1.00	0.00	O
ATOM	1350	CB	ASN	87	3.177	16.295	18.295	1.00	0.00	C
ATOM	1351	CG	ASN	87	3.999	16.577	19.551	1.00	0.00	C
ATOM	1352	ND2	ASN	87	3.541	16.261	20.749	1.00	0.00	N
ATOM	1353	OD1	ASN	87	5.093	17.106	19.447	1.00	0.00	O
ATOM	1354	H	ASN	87	1.279	14.355	20.046	1.00	0.00	H
ATOM	1355	HA	ASN	87	1.216	16.460	19.142	1.00	0.00	H
ATOM	1356	HB2	ASN	87	3.745	15.599	17.682	1.00	0.00	H
ATOM	1357	HB3	ASN	87	3.111	17.238	17.748	1.00	0.00	H
ATOM	1358	HD21	ASN	87	4.136	16.464	21.535	1.00	0.00	H
ATOM	1359	HD22	ASN	87	2.631	15.852	20.872	1.00	0.00	H
ATOM	1360	N	LEU	88	-0.256	15.080	17.240	1.00	0.00	N
ATOM	1361	CA	LEU	88	-1.111	14.805	16.082	1.00	0.00	C
ATOM	1362	C	LEU	88	-1.600	16.081	15.392	1.00	0.00	C
ATOM	1363	O	LEU	88	-1.683	17.147	16.007	1.00	0.00	O
ATOM	1364	CB	LEU	88	-2.292	13.915	16.524	1.00	0.00	C

ATOM	1365	CG	LEU	88	-1.895	12.438	16.715	1.00	0.00	C
ATOM	1366	CD1	LEU	88	-3.007	11.685	17.448	1.00	0.00	C
ATOM	1367	CD2	LEU	88	-1.632	11.749	15.364	1.00	0.00	C
ATOM	1368	H	LEU	88	-0.597	14.781	18.148	1.00	0.00	H
ATOM	1369	HA	LEU	88	-0.522	14.274	15.336	1.00	0.00	H
ATOM	1370	HB2	LEU	88	-2.704	14.311	17.456	1.00	0.00	H
ATOM	1371	HB3	LEU	88	-3.087	13.964	15.776	1.00	0.00	H
ATOM	1372	HG	LEU	88	-0.991	12.380	17.323	1.00	0.00	H
ATOM	1373	HD11	LEU	88	-3.919	11.703	16.851	1.00	0.00	H
ATOM	1374	HD12	LEU	88	-2.708	10.651	17.618	1.00	0.00	H
ATOM	1375	HD13	LEU	88	-3.198	12.154	18.415	1.00	0.00	H
ATOM	1376	HD21	LEU	88	-0.767	12.191	14.873	1.00	0.00	H
ATOM	1377	HD22	LEU	88	-1.438	10.689	15.516	1.00	0.00	H
ATOM	1378	HD23	LEU	88	-2.501	11.854	14.713	1.00	0.00	H
ATOM	1379	N	ARG	89	-1.905	15.958	14.097	1.00	0.00	N
ATOM	1380	CA	ARG	89	-2.264	17.069	13.211	1.00	0.00	C
ATOM	1381	C	ARG	89	-3.324	16.665	12.169	1.00	0.00	C
ATOM	1382	O	ARG	89	-3.783	15.525	12.148	1.00	0.00	O
ATOM	1383	CB	ARG	89	-1.024	17.540	12.439	1.00	0.00	C
ATOM	1384	CG	ARG	89	0.315	17.713	13.163	1.00	0.00	C
ATOM	1385	CD	ARG	89	1.308	18.054	12.048	1.00	0.00	C
ATOM	1386	NE	ARG	89	2.689	18.223	12.518	1.00	0.00	N
ATOM	1387	CZ	ARG	89	3.744	18.147	11.711	1.00	0.00	C
ATOM	1388	NH1	ARG	89	3.618	17.967	10.414	1.00	0.00	N
ATOM	1389	NH2	ARG	89	4.960	18.251	12.202	1.00	0.00	N
ATOM	1390	H	ARG	89	-1.811	15.043	13.670	1.00	0.00	H
ATOM	1391	HA	ARG	89	-2.652	17.902	13.798	1.00	0.00	H
ATOM	1392	HB2	ARG	89	-0.868	16.826	11.625	1.00	0.00	H
ATOM	1393	HB3	ARG	89	-1.276	18.513	12.021	1.00	0.00	H
ATOM	1394	HG2	ARG	89	0.257	18.522	13.892	1.00	0.00	H
ATOM	1395	HG3	ARG	89	0.617	16.785	13.645	1.00	0.00	H
ATOM	1396	HD2	ARG	89	1.288	17.234	11.329	1.00	0.00	H
ATOM	1397	HD3	ARG	89	0.982	18.964	11.539	1.00	0.00	H
ATOM	1398	HE	ARG	89	2.816	18.406	13.499	1.00	0.00	H
ATOM	1399	HH11	ARG	89	2.681	18.016	9.984	1.00	0.00	H
ATOM	1400	HH12	ARG	89	4.401	17.890	9.799	1.00	0.00	H
ATOM	1401	HH21	ARG	89	5.092	18.457	13.174	1.00	0.00	H
ATOM	1402	HH22	ARG	89	5.753	18.174	11.585	1.00	0.00	H
ATOM	1403	N	ALA	90	-3.654	17.577	11.247	1.00	0.00	N
ATOM	1404	CA	ALA	90	-4.536	17.301	10.110	1.00	0.00	C
ATOM	1405	C	ALA	90	-3.897	16.313	9.116	1.00	0.00	C
ATOM	1406	O	ALA	90	-4.534	15.320	8.771	1.00	0.00	O
ATOM	1407	CB	ALA	90	-4.900	18.633	9.442	1.00	0.00	C
ATOM	1408	H	ALA	90	-3.148	18.451	11.242	1.00	0.00	H
ATOM	1409	HA	ALA	90	-5.455	16.836	10.476	1.00	0.00	H
ATOM	1410	HB1	ALA	90	-4.001	19.135	9.081	1.00	0.00	H
ATOM	1411	HB2	ALA	90	-5.560	18.444	8.594	1.00	0.00	H
ATOM	1412	HB3	ALA	90	-5.415	19.277	10.156	1.00	0.00	H
ATOM	1413	N	GLU	91	-2.626	16.516	8.752	1.00	0.00	N
ATOM	1414	CA	GLU	91	-1.919	15.722	7.728	1.00	0.00	C
ATOM	1415	C	GLU	91	-1.614	14.267	8.162	1.00	0.00	C
ATOM	1416	O	GLU	91	-0.958	13.529	7.424	1.00	0.00	O
ATOM	1417	CB	GLU	91	-0.606	16.392	7.253	1.00	0.00	C
ATOM	1418	CG	GLU	91	-0.460	17.915	7.385	1.00	0.00	C
ATOM	1419	CD	GLU	91	-0.004	18.294	8.793	1.00	0.00	C
ATOM	1420	OE1	GLU	91	1.227	18.286	9.048	1.00	0.00	O
ATOM	1421	OE2	GLU	91	-0.897	18.514	9.644	1.00	0.00	O

ATOM	1422	H	GLU	91	-2.152	17.340	9.120	1.00	0.00	H
ATOM	1423	HA	GLU	91	-2.584	15.667	6.864	1.00	0.00	H
ATOM	1424	HB2	GLU	91	0.241	15.935	7.770	1.00	0.00	H
ATOM	1425	HB3	GLU	91	-0.496	16.150	6.195	1.00	0.00	H
ATOM	1426	HG2	GLU	91	0.296	18.253	6.675	1.00	0.00	H
ATOM	1427	HG3	GLU	91	-1.403	18.405	7.136	1.00	0.00	H
ATOM	1428	N	ASP	92	-2.043	13.863	9.364	1.00	0.00	N
ATOM	1429	CA	ASP	92	-1.922	12.511	9.917	1.00	0.00	C
ATOM	1430	C	ASP	92	-3.245	11.699	9.846	1.00	0.00	C
ATOM	1431	O	ASP	92	-3.261	10.541	10.273	1.00	0.00	O
ATOM	1432	CB	ASP	92	-1.437	12.594	11.383	1.00	0.00	C
ATOM	1433	CG	ASP	92	-0.066	13.243	11.633	1.00	0.00	C
ATOM	1434	OD1	ASP	92	0.885	13.067	10.829	1.00	0.00	O
ATOM	1435	OD2	ASP	92	0.079	13.867	12.711	1.00	0.00	O
ATOM	1436	H	ASP	92	-2.594	14.524	9.894	1.00	0.00	H
ATOM	1437	HA	ASP	92	-1.192	11.966	9.329	1.00	0.00	H
ATOM	1438	HB2	ASP	92	-2.185	13.137	11.962	1.00	0.00	H
ATOM	1439	HB3	ASP	92	-1.383	11.584	11.787	1.00	0.00	H
ATOM	1440	N	THR	93	-4.346	12.298	9.353	1.00	0.00	N
ATOM	1441	CA	THR	93	-5.700	11.702	9.333	1.00	0.00	C
ATOM	1442	C	THR	93	-5.863	10.779	8.130	1.00	0.00	C
ATOM	1443	O	THR	93	-5.730	11.203	6.984	1.00	0.00	O
ATOM	1444	CB	THR	93	-6.767	12.802	9.340	1.00	0.00	C
ATOM	1445	CG2	THR	93	-8.201	12.292	9.179	1.00	0.00	C
ATOM	1446	OG1	THR	93	-6.707	13.421	10.601	1.00	0.00	O
ATOM	1447	H	THR	93	-4.237	13.233	8.971	1.00	0.00	H
ATOM	1448	HA	THR	93	-5.833	11.108	10.237	1.00	0.00	H
ATOM	1449	HB	THR	93	-6.561	13.532	8.554	1.00	0.00	H
ATOM	1450	HG1	THR	93	-5.947	14.018	10.583	1.00	0.00	H
ATOM	1451	HG21	THR	93	-8.408	11.516	9.909	1.00	0.00	H
ATOM	1452	HG22	THR	93	-8.895	13.121	9.323	1.00	0.00	H
ATOM	1453	HG23	THR	93	-8.344	11.895	8.175	1.00	0.00	H
ATOM	1454	N	GLY	94	-6.182	9.511	8.398	1.00	0.00	N
ATOM	1455	CA	GLY	94	-6.264	8.467	7.373	1.00	0.00	C
ATOM	1456	C	GLY	94	-6.462	7.051	7.907	1.00	0.00	C
ATOM	1457	O	GLY	94	-6.748	6.850	9.087	1.00	0.00	O
ATOM	1458	H	GLY	94	-6.317	9.250	9.365	1.00	0.00	H
ATOM	1459	HA2	GLY	94	-7.079	8.701	6.688	1.00	0.00	H
ATOM	1460	HA3	GLY	94	-5.345	8.492	6.791	1.00	0.00	H
ATOM	1461	N	ILE	95	-6.311	6.063	7.021	1.00	0.00	N
ATOM	1462	CA	ILE	95	-6.341	4.625	7.352	1.00	0.00	C
ATOM	1463	C	ILE	95	-4.906	4.109	7.500	1.00	0.00	C
ATOM	1464	O	ILE	95	-4.159	4.106	6.526	1.00	0.00	O
ATOM	1465	CB	ILE	95	-7.105	3.805	6.281	1.00	0.00	C
ATOM	1466	CG1	ILE	95	-8.493	4.411	5.963	1.00	0.00	C
ATOM	1467	CG2	ILE	95	-7.247	2.344	6.766	1.00	0.00	C
ATOM	1468	CD1	ILE	95	-9.234	3.714	4.815	1.00	0.00	C
ATOM	1469	H	ILE	95	-6.071	6.332	6.068	1.00	0.00	H
ATOM	1470	HA	ILE	95	-6.842	4.480	8.305	1.00	0.00	H
ATOM	1471	HB	ILE	95	-6.520	3.805	5.361	1.00	0.00	H
ATOM	1472	HG12	ILE	95	-9.116	4.384	6.860	1.00	0.00	H
ATOM	1473	HG13	ILE	95	-8.374	5.453	5.666	1.00	0.00	H
ATOM	1474	HG21	ILE	95	-7.860	2.303	7.667	1.00	0.00	H
ATOM	1475	HG22	ILE	95	-7.708	1.730	5.994	1.00	0.00	H
ATOM	1476	HG23	ILE	95	-6.270	1.911	6.982	1.00	0.00	H
ATOM	1477	HD11	ILE	95	-9.539	2.709	5.107	1.00	0.00	H
ATOM	1478	HD12	ILE	95	-10.127	4.287	4.567	1.00	0.00	H

ATOM	1479	HD13	ILE	95	-8.591	3.661	3.936	1.00	0.00	H
ATOM	1480	N	TYR	96	-4.519	3.647	8.685	1.00	0.00	N
ATOM	1481	CA	TYR	96	-3.204	3.077	8.985	1.00	0.00	C
ATOM	1482	C	TYR	96	-3.249	1.550	8.860	1.00	0.00	C
ATOM	1483	O	TYR	96	-3.918	0.886	9.654	1.00	0.00	O
ATOM	1484	CB	TYR	96	-2.783	3.469	10.413	1.00	0.00	C
ATOM	1485	CG	TYR	96	-2.331	4.905	10.603	1.00	0.00	C
ATOM	1486	CD1	TYR	96	-3.267	5.955	10.560	1.00	0.00	C
ATOM	1487	CD2	TYR	96	-0.980	5.190	10.887	1.00	0.00	C
ATOM	1488	CE1	TYR	96	-2.866	7.280	10.807	1.00	0.00	C
ATOM	1489	CE2	TYR	96	-0.571	6.515	11.141	1.00	0.00	C
ATOM	1490	CZ	TYR	96	-1.517	7.564	11.112	1.00	0.00	C
ATOM	1491	OH	TYR	96	-1.135	8.851	11.350	1.00	0.00	O
ATOM	1492	H	TYR	96	-5.217	3.592	9.419	1.00	0.00	H
ATOM	1493	HA	TYR	96	-2.460	3.460	8.289	1.00	0.00	H
ATOM	1494	HB2	TYR	96	-3.614	3.273	11.094	1.00	0.00	H
ATOM	1495	HB3	TYR	96	-1.967	2.816	10.719	1.00	0.00	H
ATOM	1496	HD1	TYR	96	-4.309	5.753	10.357	1.00	0.00	H
ATOM	1497	HD2	TYR	96	-0.256	4.392	10.931	1.00	0.00	H
ATOM	1498	HE1	TYR	96	-3.594	8.075	10.772	1.00	0.00	H
ATOM	1499	HE2	TYR	96	0.459	6.732	11.376	1.00	0.00	H
ATOM	1500	HH	TYR	96	-1.893	9.452	11.313	1.00	0.00	H
ATOM	1501	N	TYR	97	-2.514	0.994	7.897	1.00	0.00	N
ATOM	1502	CA	TYR	97	-2.350	-0.448	7.692	1.00	0.00	C
ATOM	1503	C	TYR	97	-0.987	-0.930	8.215	1.00	0.00	C
ATOM	1504	O	TYR	97	0.030	-0.241	8.041	1.00	0.00	O
ATOM	1505	CB	TYR	97	-2.431	-0.781	6.197	1.00	0.00	C
ATOM	1506	CG	TYR	97	-3.708	-0.389	5.478	1.00	0.00	C
ATOM	1507	CD1	TYR	97	-4.761	-1.314	5.350	1.00	0.00	C
ATOM	1508	CD2	TYR	97	-3.816	0.885	4.882	1.00	0.00	C
ATOM	1509	CE1	TYR	97	-5.904	-0.985	4.597	1.00	0.00	C
ATOM	1510	CE2	TYR	97	-4.963	1.226	4.143	1.00	0.00	C
ATOM	1511	CZ	TYR	97	-5.998	0.278	3.974	1.00	0.00	C
ATOM	1512	OH	TYR	97	-7.070	0.587	3.196	1.00	0.00	O
ATOM	1513	H	TYR	97	-1.998	1.599	7.269	1.00	0.00	H
ATOM	1514	HA	TYR	97	-3.140	-0.997	8.210	1.00	0.00	H
ATOM	1515	HB2	TYR	97	-1.595	-0.295	5.690	1.00	0.00	H
ATOM	1516	HB3	TYR	97	-2.292	-1.858	6.081	1.00	0.00	H
ATOM	1517	HD1	TYR	97	-4.694	-2.282	5.831	1.00	0.00	H
ATOM	1518	HD2	TYR	97	-3.013	1.600	4.991	1.00	0.00	H
ATOM	1519	HE1	TYR	97	-6.715	-1.697	4.509	1.00	0.00	H
ATOM	1520	HE2	TYR	97	-5.053	2.201	3.686	1.00	0.00	H
ATOM	1521	HH	TYR	97	-7.631	-0.179	3.025	1.00	0.00	H
ATOM	1522	N	CYS	98	-0.947	-2.134	8.785	1.00	0.00	N
ATOM	1523	CA	CYS	98	0.305	-2.838	9.090	1.00	0.00	C
ATOM	1524	C	CYS	98	0.787	-3.693	7.899	1.00	0.00	C
ATOM	1525	O	CYS	98	-0.020	-4.074	7.044	1.00	0.00	O
ATOM	1526	CB	CYS	98	0.106	-3.664	10.368	1.00	0.00	C
ATOM	1527	SG	CYS	98	-1.073	-4.995	10.024	1.00	0.00	S
ATOM	1528	H	CYS	98	-1.831	-2.639	8.872	1.00	0.00	H
ATOM	1529	HA	CYS	98	1.085	-2.102	9.290	1.00	0.00	H
ATOM	1530	HB2	CYS	98	1.060	-4.093	10.689	1.00	0.00	H
ATOM	1531	HB3	CYS	98	-0.274	-3.015	11.163	1.00	0.00	H
ATOM	1532	HG	CYS	98	-2.098	-4.259	9.547	1.00	0.00	H
ATOM	1533	N	THR	99	2.090	-4.011	7.886	1.00	0.00	N
ATOM	1534	CA	THR	99	2.742	-4.902	6.915	1.00	0.00	C
ATOM	1535	C	THR	99	4.089	-5.398	7.445	1.00	0.00	C

ATOM	1536	O	THR	99	4.842	-4.634	8.048	1.00	0.00	O
ATOM	1537	CB	THR	99	2.831	-4.218	5.545	1.00	0.00	C
ATOM	1538	CG2	THR	99	3.812	-3.051	5.483	1.00	0.00	C
ATOM	1539	OG1	THR	99	3.221	-5.183	4.615	1.00	0.00	O
ATOM	1540	H	THR	99	2.703	-3.574	8.567	1.00	0.00	H
ATOM	1541	HA	THR	99	2.103	-5.770	6.786	1.00	0.00	H
ATOM	1542	HB	THR	99	1.845	-3.852	5.264	1.00	0.00	H
ATOM	1543	HG1	THR	99	3.558	-4.709	3.822	1.00	0.00	H
ATOM	1544	HG21	THR	99	4.831	-3.408	5.625	1.00	0.00	H
ATOM	1545	HG22	THR	99	3.742	-2.568	4.509	1.00	0.00	H
ATOM	1546	HG23	THR	99	3.576	-2.318	6.252	1.00	0.00	H
ATOM	1547	N	SER	100	4.395	-6.684	7.265	1.00	0.00	N
ATOM	1548	CA	SER	100	5.694	-7.255	7.664	1.00	0.00	C
ATOM	1549	C	SER	100	6.619	-7.500	6.461	1.00	0.00	C
ATOM	1550	O	SER	100	6.578	-8.586	5.887	1.00	0.00	O
ATOM	1551	CB	SER	100	5.526	-8.576	8.437	1.00	0.00	C
ATOM	1552	OG	SER	100	4.712	-8.461	9.590	1.00	0.00	O
ATOM	1553	H	SER	100	3.769	-7.253	6.713	1.00	0.00	H
ATOM	1554	HA	SER	100	6.215	-6.569	8.333	1.00	0.00	H
ATOM	1555	HB2	SER	100	5.100	-9.325	7.776	1.00	0.00	H
ATOM	1556	HB3	SER	100	6.514	-8.916	8.748	1.00	0.00	H
ATOM	1557	HG	SER	100	3.831	-8.200	9.300	1.00	0.00	H
ATOM	1558	N	ASN	101	7.470	-6.510	6.149	1.00	0.00	N
ATOM	1559	CA	ASN	101	8.746	-6.588	5.408	1.00	0.00	C
ATOM	1560	C	ASN	101	9.247	-5.243	4.851	1.00	0.00	C
ATOM	1561	O	ASN	101	8.482	-4.316	4.611	1.00	0.00	O
ATOM	1562	CB	ASN	101	8.788	-7.658	4.297	1.00	0.00	C
ATOM	1563	CG	ASN	101	9.337	-8.997	4.770	1.00	0.00	C
ATOM	1564	ND2	ASN	101	8.947	-10.077	4.123	1.00	0.00	N
ATOM	1565	OD1	ASN	101	10.181	-9.068	5.653	1.00	0.00	O
ATOM	1566	H	ASN	101	7.318	-5.633	6.625	1.00	0.00	H
ATOM	1567	HA	ASN	101	9.488	-6.861	6.158	1.00	0.00	H
ATOM	1568	HB2	ASN	101	7.803	-7.776	3.850	1.00	0.00	H
ATOM	1569	HB3	ASN	101	9.451	-7.333	3.500	1.00	0.00	H
ATOM	1570	HD21	ASN	101	9.255	-10.974	4.443	1.00	0.00	H
ATOM	1571	HD22	ASN	101	8.300	-9.977	3.343	1.00	0.00	H
ATOM	1572	N	VAL	102	10.768	-5.240	4.563	1.00	0.00	N
ATOM	1573	CA	VAL	102	10.730	-3.873	4.051	1.00	0.00	C
ATOM	1574	C	VAL	102	10.864	-3.853	2.548	1.00	0.00	C
ATOM	1575	O	VAL	102	10.454	-2.630	2.153	1.00	0.00	O
ATOM	1576	CB	VAL	102	11.872	-3.016	4.729	1.00	0.00	C
ATOM	1577	CG1	VAL	102	12.901	-2.357	3.770	1.00	0.00	C
ATOM	1578	CG2	VAL	102	11.346	-1.862	5.617	1.00	0.00	C
ATOM	1579	H	VAL	102	11.416	-5.840	4.668	1.00	0.00	H
ATOM	1580	HA	VAL	102	9.748	-3.429	4.294	1.00	0.00	H
ATOM	1581	HB	VAL	102	12.447	-3.699	5.388	1.00	0.00	H
ATOM	1582	HG11	VAL	102	12.426	-1.665	3.048	1.00	0.00	H
ATOM	1583	HG12	VAL	102	13.676	-1.783	4.314	1.00	0.00	H
ATOM	1584	HG13	VAL	102	13.465	-3.103	3.179	1.00	0.00	H
ATOM	1585	HG21	VAL	102	10.646	-2.225	6.392	1.00	0.00	H
ATOM	1586	HG22	VAL	102	12.166	-1.354	6.161	1.00	0.00	H
ATOM	1587	HG23	VAL	102	10.813	-1.089	5.031	1.00	0.00	H
ATOM	1588	N	ALA	103	10.313	-4.864	1.842	1.00	0.00	N
ATOM	1589	CA	ALA	103	9.553	-5.004	0.603	1.00	0.00	C
ATOM	1590	C	ALA	103	9.247	-6.512	0.448	1.00	0.00	C
ATOM	1591	O	ALA	103	9.950	-7.320	1.052	1.00	0.00	O
ATOM	1592	CB	ALA	103	10.359	-4.451	-0.583	1.00	0.00	C

ATOM	1593	H	ALA	103	10.565	-5.758	2.240	1.00	0.00	H
ATOM	1594	HA	ALA	103	8.611	-4.461	0.700	1.00	0.00	H
ATOM	1595	HB1	ALA	103	11.278	-5.026	-0.706	1.00	0.00	H
ATOM	1596	HB2	ALA	103	9.773	-4.534	-1.494	1.00	0.00	H
ATOM	1597	HB3	ALA	103	10.620	-3.408	-0.409	1.00	0.00	H
ATOM	1598	N	MET	104	8.201	-6.880	-0.302	1.00	0.00	N
ATOM	1599	CA	MET	104	7.684	-8.256	-0.443	1.00	0.00	C
ATOM	1600	C	MET	104	6.961	-8.677	0.841	1.00	0.00	C
ATOM	1601	O	MET	104	7.474	-9.417	1.684	1.00	0.00	O
ATOM	1602	CB	MET	104	8.766	-9.256	-0.898	1.00	0.00	C
ATOM	1603	CG	MET	104	8.100	-10.483	-1.527	1.00	0.00	C
ATOM	1604	SD	MET	104	9.271	-11.696	-2.177	1.00	0.00	S
ATOM	1605	CE	MET	104	8.125	-12.682	-3.167	1.00	0.00	C
ATOM	1606	H	MET	104	7.660	-6.144	-0.731	1.00	0.00	H
ATOM	1607	HA	MET	104	6.920	-8.232	-1.217	1.00	0.00	H
ATOM	1608	HB2	MET	104	9.408	-8.789	-1.645	1.00	0.00	H
ATOM	1609	HB3	MET	104	9.388	-9.568	-0.057	1.00	0.00	H
ATOM	1610	HG2	MET	104	7.471	-10.968	-0.777	1.00	0.00	H
ATOM	1611	HG3	MET	104	7.472	-10.151	-2.352	1.00	0.00	H
ATOM	1612	HE1	MET	104	7.635	-12.044	-3.901	1.00	0.00	H
ATOM	1613	HE2	MET	104	8.687	-13.450	-3.698	1.00	0.00	H
ATOM	1614	HE3	MET	104	7.382	-13.144	-2.521	1.00	0.00	H
ATOM	1615	N	ASP	105	5.776	-8.100	0.995	1.00	0.00	N
ATOM	1616	CA	ASP	105	5.161	-7.847	2.285	1.00	0.00	C
ATOM	1617	C	ASP	105	3.666	-8.227	2.322	1.00	0.00	C
ATOM	1618	O	ASP	105	3.151	-8.958	1.469	1.00	0.00	O
ATOM	1619	CB	ASP	105	5.478	-6.378	2.631	1.00	0.00	C
ATOM	1620	CG	ASP	105	4.709	-5.346	1.796	1.00	0.00	C
ATOM	1621	OD1	ASP	105	4.436	-5.607	0.603	1.00	0.00	O
ATOM	1622	OD2	ASP	105	4.390	-4.283	2.370	1.00	0.00	O
ATOM	1623	H	ASP	105	5.432	-7.500	0.257	1.00	0.00	H
ATOM	1624	HA	ASP	105	5.648	-8.462	3.046	1.00	0.00	H
ATOM	1625	HB2	ASP	105	5.286	-6.224	3.690	1.00	0.00	H
ATOM	1626	HB3	ASP	105	6.546	-6.199	2.490	1.00	0.00	H
ATOM	1627	N	TYR	106	2.987	-7.851	3.405	1.00	0.00	N
ATOM	1628	CA	TYR	106	2.130	-8.794	4.124	1.00	0.00	C
ATOM	1629	C	TYR	106	1.080	-8.048	4.959	1.00	0.00	C
ATOM	1630	O	TYR	106	1.169	-7.908	6.180	1.00	0.00	O
ATOM	1631	CB	TYR	106	3.074	-9.700	4.930	1.00	0.00	C
ATOM	1632	CG	TYR	106	2.479	-10.770	5.816	1.00	0.00	C
ATOM	1633	CD1	TYR	106	3.338	-11.376	6.744	1.00	0.00	C
ATOM	1634	CD2	TYR	106	1.133	-11.186	5.721	1.00	0.00	C
ATOM	1635	CE1	TYR	106	2.849	-12.357	7.621	1.00	0.00	C
ATOM	1636	CE2	TYR	106	0.633	-12.149	6.616	1.00	0.00	C
ATOM	1637	CZ	TYR	106	1.490	-12.721	7.584	1.00	0.00	C
ATOM	1638	OH	TYR	106	1.012	-13.610	8.494	1.00	0.00	O
ATOM	1639	H	TYR	106	3.378	-7.093	3.953	1.00	0.00	H
ATOM	1640	HA	TYR	106	1.600	-9.414	3.400	1.00	0.00	H
ATOM	1641	HB2	TYR	106	3.741	-10.205	4.231	1.00	0.00	H
ATOM	1642	HB3	TYR	106	3.698	-9.062	5.555	1.00	0.00	H
ATOM	1643	HD1	TYR	106	4.379	-11.091	6.788	1.00	0.00	H
ATOM	1644	HD2	TYR	106	0.468	-10.758	4.989	1.00	0.00	H
ATOM	1645	HE1	TYR	106	3.517	-12.809	8.331	1.00	0.00	H
ATOM	1646	HE2	TYR	106	-0.405	-12.434	6.564	1.00	0.00	H
ATOM	1647	HH	TYR	106	0.059	-13.696	8.475	1.00	0.00	H
ATOM	1648	N	TRP	107	0.098	-7.518	4.231	1.00	0.00	N
ATOM	1649	CA	TRP	107	-0.780	-6.434	4.657	1.00	0.00	C

ATOM	1650	C	TRP	107	-1.961	-6.881	5.529	1.00	0.00	C
ATOM	1651	O	TRP	107	-2.604	-7.899	5.255	1.00	0.00	O
ATOM	1652	CB	TRP	107	-1.255	-5.713	3.392	1.00	0.00	C
ATOM	1653	CG	TRP	107	-0.159	-5.025	2.644	1.00	0.00	C
ATOM	1654	CD1	TRP	107	0.663	-5.572	1.717	1.00	0.00	C
ATOM	1655	CD2	TRP	107	0.300	-3.656	2.816	1.00	0.00	C
ATOM	1656	CE2	TRP	107	1.385	-3.420	1.923	1.00	0.00	C
ATOM	1657	CE3	TRP	107	-0.081	-2.599	3.667	1.00	0.00	C
ATOM	1658	NE1	TRP	107	1.580	-4.630	1.294	1.00	0.00	N
ATOM	1659	CZ2	TRP	107	2.036	-2.181	1.851	1.00	0.00	C
ATOM	1660	CZ3	TRP	107	0.556	-1.349	3.597	1.00	0.00	C
ATOM	1661	CH2	TRP	107	1.607	-1.136	2.684	1.00	0.00	C
ATOM	1662	H	TRP	107	0.113	-7.707	3.243	1.00	0.00	H
ATOM	1663	HA	TRP	107	-0.181	-5.729	5.237	1.00	0.00	H
ATOM	1664	HB2	TRP	107	-1.760	-6.416	2.727	1.00	0.00	H
ATOM	1665	HB3	TRP	107	-1.977	-4.955	3.687	1.00	0.00	H
ATOM	1666	HD1	TRP	107	0.636	-6.598	1.382	1.00	0.00	H
ATOM	1667	HE1	TRP	107	2.408	-4.860	0.743	1.00	0.00	H
ATOM	1668	HE3	TRP	107	-0.867	-2.765	4.389	1.00	0.00	H
ATOM	1669	HZ2	TRP	107	2.869	-2.059	1.178	1.00	0.00	H
ATOM	1670	HZ3	TRP	107	0.234	-0.558	4.253	1.00	0.00	H
ATOM	1671	HH2	TRP	107	2.092	-0.176	2.629	1.00	0.00	H
ATOM	1672	N	GLY	108	-2.266	-6.072	6.552	1.00	0.00	N
ATOM	1673	CA	GLY	108	-3.398	-6.258	7.474	1.00	0.00	C
ATOM	1674	C	GLY	108	-4.739	-5.801	6.897	1.00	0.00	C
ATOM	1675	O	GLY	108	-4.974	-5.920	5.693	1.00	0.00	O
ATOM	1676	H	GLY	108	-1.639	-5.294	6.729	1.00	0.00	H
ATOM	1677	HA2	GLY	108	-3.494	-7.313	7.735	1.00	0.00	H
ATOM	1678	HA3	GLY	108	-3.213	-5.688	8.384	1.00	0.00	H
ATOM	1679	N	GLN	109	-5.641	-5.335	7.766	1.00	0.00	N
ATOM	1680	CA	GLN	109	-7.001	-4.895	7.414	1.00	0.00	C
ATOM	1681	C	GLN	109	-7.230	-3.387	7.599	1.00	0.00	C
ATOM	1682	O	GLN	109	-8.163	-2.862	6.999	1.00	0.00	O
ATOM	1683	CB	GLN	109	-8.045	-5.745	8.175	1.00	0.00	C
ATOM	1684	CG	GLN	109	-8.125	-5.486	9.692	1.00	0.00	C
ATOM	1685	CD	GLN	109	-8.906	-6.567	10.445	1.00	0.00	C
ATOM	1686	NE2	GLN	109	-8.358	-7.759	10.584	1.00	0.00	N
ATOM	1687	OE1	GLN	109	-9.983	-6.351	10.979	1.00	0.00	O
ATOM	1688	H	GLN	109	-5.337	-5.215	8.734	1.00	0.00	H
ATOM	1689	HA	GLN	109	-7.169	-5.071	6.352	1.00	0.00	H
ATOM	1690	HB2	GLN	109	-9.032	-5.554	7.744	1.00	0.00	H
ATOM	1691	HB3	GLN	109	-7.812	-6.797	8.003	1.00	0.00	H
ATOM	1692	HG2	GLN	109	-7.123	-5.472	10.103	1.00	0.00	H
ATOM	1693	HG3	GLN	109	-8.585	-4.515	9.877	1.00	0.00	H
ATOM	1694	HE21	GLN	109	-8.817	-8.378	11.249	1.00	0.00	H
ATOM	1695	HE22	GLN	109	-7.442	-7.941	10.212	1.00	0.00	H
ATOM	1696	N	GLY	110	-6.365	-2.685	8.348	1.00	0.00	N
ATOM	1697	CA	GLY	110	-6.383	-1.223	8.491	1.00	0.00	C
ATOM	1698	C	GLY	110	-7.282	-0.692	9.617	1.00	0.00	C
ATOM	1699	O	GLY	110	-8.411	-1.145	9.804	1.00	0.00	O
ATOM	1700	H	GLY	110	-5.575	-3.174	8.762	1.00	0.00	H
ATOM	1701	HA2	GLY	110	-5.366	-0.893	8.685	1.00	0.00	H
ATOM	1702	HA3	GLY	110	-6.732	-0.771	7.562	1.00	0.00	H
ATOM	1703	N	THR	111	-6.807	0.348	10.319	1.00	0.00	N
ATOM	1704	CA	THR	111	-7.580	1.151	11.295	1.00	0.00	C
ATOM	1705	C	THR	111	-7.713	2.579	10.772	1.00	0.00	C
ATOM	1706	O	THR	111	-6.711	3.138	10.327	1.00	0.00	O

ATOM	1707	CB	THR	111	-6.864	1.168	12.653	1.00	0.00	C
ATOM	1708	CG2	THR	111	-7.566	2.026	13.703	1.00	0.00	C
ATOM	1709	OG1	THR	111	-6.855	-0.129	13.192	1.00	0.00	O
ATOM	1710	H	THR	111	-5.863	0.651	10.111	1.00	0.00	H
ATOM	1711	HA	THR	111	-8.569	0.715	11.428	1.00	0.00	H
ATOM	1712	HB	THR	111	-5.834	1.513	12.524	1.00	0.00	H
ATOM	1713	HG1	THR	111	-6.245	-0.132	13.933	1.00	0.00	H
ATOM	1714	HG21	THR	111	-8.626	1.776	13.738	1.00	0.00	H
ATOM	1715	HG22	THR	111	-7.122	1.837	14.677	1.00	0.00	H
ATOM	1716	HG23	THR	111	-7.443	3.083	13.469	1.00	0.00	H
ATOM	1717	N	THR	112	-8.895	3.208	10.843	1.00	0.00	N
ATOM	1718	CA	THR	112	-9.005	4.656	10.578	1.00	0.00	C
ATOM	1719	C	THR	112	-8.700	5.460	11.836	1.00	0.00	C
ATOM	1720	O	THR	112	-9.066	5.063	12.941	1.00	0.00	O
ATOM	1721	CB	THR	112	-10.313	5.056	9.891	1.00	0.00	C
ATOM	1722	CG2	THR	112	-11.545	5.000	10.793	1.00	0.00	C
ATOM	1723	OG1	THR	112	-10.152	6.378	9.430	1.00	0.00	O
ATOM	1724	H	THR	112	-9.677	2.737	11.272	1.00	0.00	H
ATOM	1725	HA	THR	112	-8.234	4.916	9.862	1.00	0.00	H
ATOM	1726	HB	THR	112	-10.472	4.400	9.033	1.00	0.00	H
ATOM	1727	HG1	THR	112	-11.004	6.685	9.104	1.00	0.00	H
ATOM	1728	HG21	THR	112	-11.451	5.732	11.597	1.00	0.00	H
ATOM	1729	HG22	THR	112	-12.435	5.221	10.206	1.00	0.00	H
ATOM	1730	HG23	THR	112	-11.642	4.002	11.223	1.00	0.00	H
ATOM	1731	N	VAL	113	-8.000	6.573	11.645	1.00	0.00	N
ATOM	1732	CA	VAL	113	-7.603	7.523	12.689	1.00	0.00	C
ATOM	1733	C	VAL	113	-8.156	8.892	12.304	1.00	0.00	C
ATOM	1734	O	VAL	113	-7.695	9.509	11.341	1.00	0.00	O
ATOM	1735	CB	VAL	113	-6.070	7.579	12.871	1.00	0.00	C
ATOM	1736	CG1	VAL	113	-5.660	8.607	13.940	1.00	0.00	C
ATOM	1737	CG2	VAL	113	-5.517	6.199	13.273	1.00	0.00	C
ATOM	1738	H	VAL	113	-7.755	6.799	10.681	1.00	0.00	H
ATOM	1739	HA	VAL	113	-8.041	7.219	13.641	1.00	0.00	H
ATOM	1740	HB	VAL	113	-5.615	7.862	11.923	1.00	0.00	H
ATOM	1741	HG11	VAL	113	-6.105	8.351	14.901	1.00	0.00	H
ATOM	1742	HG12	VAL	113	-4.573	8.623	14.039	1.00	0.00	H
ATOM	1743	HG13	VAL	113	-5.981	9.608	13.652	1.00	0.00	H
ATOM	1744	HG21	VAL	113	-5.728	5.460	12.498	1.00	0.00	H
ATOM	1745	HG22	VAL	113	-4.436	6.255	13.397	1.00	0.00	H
ATOM	1746	HG23	VAL	113	-5.972	5.873	14.209	1.00	0.00	H
ATOM	1747	N	THR	114	-9.148	9.348	13.071	1.00	0.00	N
ATOM	1748	CA	THR	114	-9.807	10.646	12.914	1.00	0.00	C
ATOM	1749	C	THR	114	-9.225	11.591	13.954	1.00	0.00	C
ATOM	1750	O	THR	114	-9.493	11.431	15.143	1.00	0.00	O
ATOM	1751	CB	THR	114	-11.321	10.484	13.086	1.00	0.00	C
ATOM	1752	CG2	THR	114	-12.081	11.787	12.838	1.00	0.00	C
ATOM	1753	OG1	THR	114	-11.781	9.547	12.135	1.00	0.00	O
ATOM	1754	H	THR	114	-9.480	8.742	13.815	1.00	0.00	H
ATOM	1755	HA	THR	114	-9.629	11.040	11.914	1.00	0.00	H
ATOM	1756	HB	THR	114	-11.539	10.119	14.092	1.00	0.00	H
ATOM	1757	HG1	THR	114	-12.705	9.373	12.323	1.00	0.00	H
ATOM	1758	HG21	THR	114	-11.873	12.157	11.833	1.00	0.00	H
ATOM	1759	HG22	THR	114	-13.153	11.622	12.946	1.00	0.00	H
ATOM	1760	HG23	THR	114	-11.776	12.542	13.562	1.00	0.00	H
ATOM	1761	N	VAL	115	-8.430	12.568	13.518	1.00	0.00	N
ATOM	1762	CA	VAL	115	-7.971	13.659	14.395	1.00	0.00	C
ATOM	1763	C	VAL	115	-9.042	14.763	14.392	1.00	0.00	C



ATOM	1764	O	VAL	115	-9.504	15.149	13.321	1.00	0.00	O
ATOM	1765	CB	VAL	115	-6.580	14.185	13.983	1.00	0.00	C
ATOM	1766	CG1	VAL	115	-6.059	15.217	14.993	1.00	0.00	C
ATOM	1767	CG2	VAL	115	-5.550	13.042	13.892	1.00	0.00	C
ATOM	1768	H	VAL	115	-8.201	12.626	12.533	1.00	0.00	H
ATOM	1769	HA	VAL	115	-7.866	13.255	15.399	1.00	0.00	H
ATOM	1770	HB	VAL	115	-6.657	14.665	13.008	1.00	0.00	H
ATOM	1771	HG11	VAL	115	-5.983	14.770	15.986	1.00	0.00	H
ATOM	1772	HG12	VAL	115	-5.076	15.581	14.690	1.00	0.00	H
ATOM	1773	HG13	VAL	115	-6.739	16.063	15.032	1.00	0.00	H
ATOM	1774	HG21	VAL	115	-5.825	12.344	13.100	1.00	0.00	H
ATOM	1775	HG22	VAL	115	-4.564	13.442	13.663	1.00	0.00	H
ATOM	1776	HG23	VAL	115	-5.504	12.504	14.840	1.00	0.00	H
ATOM	1777	N	SER	116	-9.473	15.231	15.570	1.00	0.00	N
ATOM	1778	CA	SER	116	-10.779	15.913	15.756	1.00	0.00	C
ATOM	1779	C	SER	116	-10.892	16.964	16.882	1.00	0.00	C
ATOM	1780	O	SER	116	-10.079	16.967	17.830	1.00	0.00	O
ATOM	1781	CB	SER	116	-11.839	14.839	16.011	1.00	0.00	C
ATOM	1782	OG	SER	116	-13.118	15.436	15.997	1.00	0.00	O
ATOM	1783	OXT	SER	116	-11.880	17.726	16.809	1.00	0.00	O
ATOM	1784	H	SER	116	-9.031	14.880	16.412	1.00	0.00	H
ATOM	1785	HA	SER	116	-11.047	16.434	14.840	1.00	0.00	H
ATOM	1786	HB2	SER	116	-11.788	14.069	15.242	1.00	0.00	H
ATOM	1787	HB3	SER	116	-11.658	14.385	16.987	1.00	0.00	H
ATOM	1788	HG	SER	116	-12.982	16.336	16.355	1.00	0.00	H
ATOM	1789	N	ASP	117	13.304	12.537	0.629	1.00	0.00	N
ATOM	1790	CA	ASP	117	14.163	13.003	-0.498	1.00	0.00	C
ATOM	1791	C	ASP	117	13.638	12.586	-1.885	1.00	0.00	C
ATOM	1792	O	ASP	117	13.133	13.424	-2.615	1.00	0.00	O
ATOM	1793	CB	ASP	117	15.633	12.578	-0.258	1.00	0.00	C
ATOM	1794	CG	ASP	117	15.866	12.412	1.234	1.00	0.00	C
ATOM	1795	OD1	ASP	117	15.465	11.308	1.668	1.00	0.00	O
ATOM	1796	OD2	ASP	117	15.911	13.442	1.929	1.00	0.00	O
ATOM	1797	HA	ASP	117	14.148	14.094	-0.498	1.00	0.00	H
ATOM	1798	HB2	ASP	117	15.841	11.623	-0.743	1.00	0.00	H
ATOM	1799	HB3	ASP	117	16.308	13.330	-0.667	1.00	0.00	H
ATOM	1800	H1	ASP	117	12.351	12.325	0.363	1.00	0.00	H
ATOM	1801	H2	ASP	117	13.355	13.225	1.373	1.00	0.00	H
ATOM	1802	H3	ASP	117	13.775	11.745	1.083	1.00	0.00	H
ATOM	1803	N	ILE	118	13.723	11.300	-2.230	1.00	0.00	N
ATOM	1804	CA	ILE	118	13.326	10.794	-3.558	1.00	0.00	C
ATOM	1805	C	ILE	118	11.805	10.840	-3.816	1.00	0.00	C
ATOM	1806	O	ILE	118	11.000	10.454	-2.962	1.00	0.00	O
ATOM	1807	CB	ILE	118	13.932	9.392	-3.757	1.00	0.00	C
ATOM	1808	CG1	ILE	118	13.993	8.990	-5.241	1.00	0.00	C
ATOM	1809	CG2	ILE	118	13.168	8.354	-2.917	1.00	0.00	C
ATOM	1810	CD1	ILE	118	14.913	7.785	-5.447	1.00	0.00	C
ATOM	1811	H	ILE	118	14.150	10.654	-1.587	1.00	0.00	H
ATOM	1812	HA	ILE	118	13.780	11.458	-4.296	1.00	0.00	H
ATOM	1813	HB	ILE	118	14.963	9.427	-3.393	1.00	0.00	H
ATOM	1814	HG12	ILE	118	12.994	8.760	-5.612	1.00	0.00	H
ATOM	1815	HG13	ILE	118	14.393	9.818	-5.826	1.00	0.00	H
ATOM	1816	HG21	ILE	118	12.206	8.134	-3.377	1.00	0.00	H
ATOM	1817	HG22	ILE	118	13.739	7.434	-2.825	1.00	0.00	H
ATOM	1818	HG23	ILE	118	12.975	8.763	-1.930	1.00	0.00	H
ATOM	1819	HD11	ILE	118	14.621	6.959	-4.812	1.00	0.00	H
ATOM	1820	HD12	ILE	118	14.874	7.466	-6.488	1.00	0.00	H

ATOM	1821	HD13	ILE	118	15.929	8.057	-5.171	1.00	0.00	H
ATOM	1822	N	GLU	119	11.447	11.273	-5.024	1.00	0.00	N
ATOM	1823	CA	GLU	119	10.092	11.386	-5.563	1.00	0.00	C
ATOM	1824	C	GLU	119	9.635	10.053	-6.177	1.00	0.00	C
ATOM	1825	O	GLU	119	10.471	9.240	-6.586	1.00	0.00	O
ATOM	1826	CB	GLU	119	10.149	12.455	-6.660	1.00	0.00	C
ATOM	1827	CG	GLU	119	8.810	12.992	-7.185	1.00	0.00	C
ATOM	1828	CD	GLU	119	9.022	13.819	-8.458	1.00	0.00	C
ATOM	1829	OE1	GLU	119	8.038	13.931	-9.221	1.00	0.00	O
ATOM	1830	OE2	GLU	119	10.162	14.288	-8.668	1.00	0.00	O
ATOM	1831	H	GLU	119	12.183	11.488	-5.687	1.00	0.00	H
ATOM	1832	HA	GLU	119	9.407	11.698	-4.774	1.00	0.00	H
ATOM	1833	HB2	GLU	119	10.727	13.307	-6.291	1.00	0.00	H
ATOM	1834	HB3	GLU	119	10.676	12.009	-7.501	1.00	0.00	H
ATOM	1835	HG2	GLU	119	8.143	12.169	-7.429	1.00	0.00	H
ATOM	1836	HG3	GLU	119	8.340	13.608	-6.419	1.00	0.00	H
ATOM	1837	N	LEU	120	8.316	9.857	-6.292	1.00	0.00	N
ATOM	1838	CA	LEU	120	7.695	8.709	-6.957	1.00	0.00	C
ATOM	1839	C	LEU	120	6.325	9.103	-7.556	1.00	0.00	C
ATOM	1840	O	LEU	120	5.284	8.956	-6.908	1.00	0.00	O
ATOM	1841	CB	LEU	120	7.613	7.561	-5.928	1.00	0.00	C
ATOM	1842	CG	LEU	120	7.306	6.181	-6.535	1.00	0.00	C
ATOM	1843	CD1	LEU	120	8.459	5.678	-7.419	1.00	0.00	C
ATOM	1844	CD2	LEU	120	7.061	5.185	-5.392	1.00	0.00	C
ATOM	1845	H	LEU	120	7.695	10.571	-5.945	1.00	0.00	H
ATOM	1846	HA	LEU	120	8.344	8.406	-7.780	1.00	0.00	H
ATOM	1847	HB2	LEU	120	8.559	7.495	-5.392	1.00	0.00	H
ATOM	1848	HB3	LEU	120	6.843	7.808	-5.195	1.00	0.00	H
ATOM	1849	HG	LEU	120	6.404	6.251	-7.141	1.00	0.00	H
ATOM	1850	HD11	LEU	120	9.388	5.653	-6.857	1.00	0.00	H
ATOM	1851	HD12	LEU	120	8.243	4.671	-7.763	1.00	0.00	H
ATOM	1852	HD13	LEU	120	8.578	6.317	-8.292	1.00	0.00	H
ATOM	1853	HD21	LEU	120	6.149	5.452	-4.872	1.00	0.00	H
ATOM	1854	HD22	LEU	120	6.953	4.175	-5.787	1.00	0.00	H
ATOM	1855	HD23	LEU	120	7.880	5.210	-4.681	1.00	0.00	H
ATOM	1856	N	THR	121	6.336	9.647	-8.782	1.00	0.00	N
ATOM	1857	CA	THR	121	5.135	10.106	-9.508	1.00	0.00	C
ATOM	1858	C	THR	121	4.621	9.047	-10.480	1.00	0.00	C
ATOM	1859	O	THR	121	5.331	8.104	-10.828	1.00	0.00	O
ATOM	1860	CB	THR	121	5.372	11.473	-10.161	1.00	0.00	C
ATOM	1861	CG2	THR	121	6.340	11.442	-11.341	1.00	0.00	C
ATOM	1862	OG1	THR	121	4.131	11.961	-10.613	1.00	0.00	O
ATOM	1863	H	THR	121	7.224	9.682	-9.272	1.00	0.00	H
ATOM	1864	HA	THR	121	4.342	10.259	-8.776	1.00	0.00	H
ATOM	1865	HB	THR	121	5.762	12.159	-9.405	1.00	0.00	H
ATOM	1866	HG1	THR	121	4.270	12.884	-10.848	1.00	0.00	H
ATOM	1867	HG21	THR	121	5.936	10.839	-12.153	1.00	0.00	H
ATOM	1868	HG22	THR	121	6.504	12.462	-11.694	1.00	0.00	H
ATOM	1869	HG23	THR	121	7.299	11.036	-11.020	1.00	0.00	H
ATOM	1870	N	GLN	122	3.363	9.169	-10.898	1.00	0.00	N
ATOM	1871	CA	GLN	122	2.645	8.177	-11.697	1.00	0.00	C
ATOM	1872	C	GLN	122	1.752	8.875	-12.730	1.00	0.00	C
ATOM	1873	O	GLN	122	1.318	10.008	-12.530	1.00	0.00	O
ATOM	1874	CB	GLN	122	1.785	7.267	-10.796	1.00	0.00	C
ATOM	1875	CG	GLN	122	2.587	6.351	-9.853	1.00	0.00	C
ATOM	1876	CD	GLN	122	1.658	5.461	-9.022	1.00	0.00	C
ATOM	1877	NE2	GLN	122	1.077	4.432	-9.600	1.00	0.00	N

ATOM	1878	OE1	GLN	122	1.411	5.702	-7.850	1.00	0.00	O
ATOM	1879	H	GLN	122	2.904	10.056	-10.726	1.00	0.00	H
ATOM	1880	HA	GLN	122	3.363	7.567	-12.242	1.00	0.00	H
ATOM	1881	HB2	GLN	122	1.119	7.890	-10.198	1.00	0.00	H
ATOM	1882	HB3	GLN	122	1.169	6.632	-11.436	1.00	0.00	H
ATOM	1883	HG2	GLN	122	3.252	5.717	-10.440	1.00	0.00	H
ATOM	1884	HG3	GLN	122	3.191	6.951	-9.172	1.00	0.00	H
ATOM	1885	HE21	GLN	122	0.416	3.908	-9.035	1.00	0.00	H
ATOM	1886	HE22	GLN	122	1.241	4.226	-10.569	1.00	0.00	H
ATOM	1887	N	SER	123	1.436	8.187	-13.829	1.00	0.00	N
ATOM	1888	CA	SER	123	0.513	8.679	-14.862	1.00	0.00	C
ATOM	1889	C	SER	123	0.016	7.557	-15.798	1.00	0.00	C
ATOM	1890	O	SER	123	0.786	6.632	-16.090	1.00	0.00	O
ATOM	1891	CB	SER	123	1.150	9.807	-15.683	1.00	0.00	C
ATOM	1892	OG	SER	123	1.007	11.024	-14.978	1.00	0.00	O
ATOM	1893	H	SER	123	1.841	7.261	-13.974	1.00	0.00	H
ATOM	1894	HA	SER	123	-0.330	9.118	-14.340	1.00	0.00	H
ATOM	1895	HB2	SER	123	2.203	9.587	-15.862	1.00	0.00	H
ATOM	1896	HB3	SER	123	0.640	9.902	-16.642	1.00	0.00	H
ATOM	1897	HG	SER	123	1.212	10.843	-14.035	1.00	0.00	H
ATOM	1898	N	PRO	124	-1.239	7.628	-16.303	1.00	0.00	N
ATOM	1899	CA	PRO	124	-2.319	8.552	-15.917	1.00	0.00	C
ATOM	1900	C	PRO	124	-2.673	8.473	-14.425	1.00	0.00	C
ATOM	1901	O	PRO	124	-2.223	7.553	-13.751	1.00	0.00	O
ATOM	1902	CB	PRO	124	-3.534	8.147	-16.767	1.00	0.00	C
ATOM	1903	CG	PRO	124	-2.916	7.441	-17.970	1.00	0.00	C
ATOM	1904	CD	PRO	124	-1.714	6.735	-17.350	1.00	0.00	C
ATOM	1905	HA	PRO	124	-2.026	9.570	-16.175	1.00	0.00	H
ATOM	1906	HB2	PRO	124	-4.153	7.433	-16.221	1.00	0.00	H
ATOM	1907	HB3	PRO	124	-4.125	9.013	-17.066	1.00	0.00	H
ATOM	1908	HG2	PRO	124	-3.612	6.739	-18.431	1.00	0.00	H
ATOM	1909	HG3	PRO	124	-2.575	8.181	-18.697	1.00	0.00	H
ATOM	1910	HD2	PRO	124	-2.027	5.791	-16.902	1.00	0.00	H
ATOM	1911	HD3	PRO	124	-0.947	6.554	-18.105	1.00	0.00	H
ATOM	1912	N	ALA	125	-3.455	9.427	-13.901	1.00	0.00	N
ATOM	1913	CA	ALA	125	-3.866	9.474	-12.482	1.00	0.00	C
ATOM	1914	C	ALA	125	-5.268	8.879	-12.223	1.00	0.00	C
ATOM	1915	O	ALA	125	-5.583	8.456	-11.116	1.00	0.00	O
ATOM	1916	CB	ALA	125	-3.795	10.932	-12.020	1.00	0.00	C
ATOM	1917	H	ALA	125	-3.771	10.173	-14.502	1.00	0.00	H
ATOM	1918	HA	ALA	125	-3.165	8.895	-11.876	1.00	0.00	H
ATOM	1919	HB1	ALA	125	-4.505	11.547	-12.578	1.00	0.00	H
ATOM	1920	HB2	ALA	125	-4.041	10.988	-10.957	1.00	0.00	H
ATOM	1921	HB3	ALA	125	-2.784	11.319	-12.162	1.00	0.00	H
ATOM	1922	N	ILE	126	-6.091	8.810	-13.268	1.00	0.00	N
ATOM	1923	CA	ILE	126	-7.317	8.017	-13.376	1.00	0.00	C
ATOM	1924	C	ILE	126	-7.298	7.469	-14.811	1.00	0.00	C
ATOM	1925	O	ILE	126	-6.763	8.137	-15.705	1.00	0.00	O
ATOM	1926	CB	ILE	126	-8.586	8.860	-13.053	1.00	0.00	C
ATOM	1927	CG1	ILE	126	-8.502	9.493	-11.641	1.00	0.00	C
ATOM	1928	CG2	ILE	126	-9.861	7.999	-13.181	1.00	0.00	C
ATOM	1929	CD1	ILE	126	-9.719	10.321	-11.207	1.00	0.00	C
ATOM	1930	H	ILE	126	-5.728	9.116	-14.159	1.00	0.00	H
ATOM	1931	HA	ILE	126	-7.263	7.178	-12.683	1.00	0.00	H
ATOM	1932	HB	ILE	126	-8.653	9.668	-13.782	1.00	0.00	H
ATOM	1933	HG12	ILE	126	-8.342	8.707	-10.901	1.00	0.00	H
ATOM	1934	HG13	ILE	126	-7.647	10.166	-11.607	1.00	0.00	H

ATOM	1935	HG21	ILE	126	-9.848	7.190	-12.453	1.00	0.00	H
ATOM	1936	HG22	ILE	126	-10.751	8.607	-13.018	1.00	0.00	H
ATOM	1937	HG23	ILE	126	-9.951	7.584	-14.182	1.00	0.00	H
ATOM	1938	HD11	ILE	126	-10.580	9.674	-11.033	1.00	0.00	H
ATOM	1939	HD12	ILE	126	-9.485	10.833	-10.272	1.00	0.00	H
ATOM	1940	HD13	ILE	126	-9.957	11.062	-11.969	1.00	0.00	H
ATOM	1941	N	MET	127	-7.834	6.272	-15.053	1.00	0.00	N
ATOM	1942	CA	MET	127	-7.898	5.663	-16.387	1.00	0.00	C
ATOM	1943	C	MET	127	-9.236	4.954	-16.609	1.00	0.00	C
ATOM	1944	O	MET	127	-9.679	4.179	-15.766	1.00	0.00	O
ATOM	1945	CB	MET	127	-6.718	4.691	-16.551	1.00	0.00	C
ATOM	1946	CG	MET	127	-6.647	4.104	-17.967	1.00	0.00	C
ATOM	1947	SD	MET	127	-5.433	2.784	-18.181	1.00	0.00	S
ATOM	1948	CE	MET	127	-3.874	3.690	-18.023	1.00	0.00	C
ATOM	1949	H	MET	127	-8.229	5.753	-14.272	1.00	0.00	H
ATOM	1950	HA	MET	127	-7.801	6.445	-17.141	1.00	0.00	H
ATOM	1951	HB2	MET	127	-5.790	5.224	-16.341	1.00	0.00	H
ATOM	1952	HB3	MET	127	-6.820	3.881	-15.828	1.00	0.00	H
ATOM	1953	HG2	MET	127	-7.617	3.670	-18.219	1.00	0.00	H
ATOM	1954	HG3	MET	127	-6.432	4.898	-18.683	1.00	0.00	H
ATOM	1955	HE1	MET	127	-3.858	4.244	-17.086	1.00	0.00	H
ATOM	1956	HE2	MET	127	-3.045	2.983	-18.033	1.00	0.00	H
ATOM	1957	HE3	MET	127	-3.757	4.372	-18.865	1.00	0.00	H
ATOM	1958	N	SER	128	-9.867	5.198	-17.756	1.00	0.00	N
ATOM	1959	CA	SER	128	-11.071	4.495	-18.200	1.00	0.00	C
ATOM	1960	C	SER	128	-10.708	3.437	-19.260	1.00	0.00	C
ATOM	1961	O	SER	128	-10.267	3.770	-20.362	1.00	0.00	O
ATOM	1962	CB	SER	128	-12.095	5.521	-18.718	1.00	0.00	C
ATOM	1963	OG	SER	128	-11.506	6.543	-19.516	1.00	0.00	O
ATOM	1964	H	SER	128	-9.475	5.846	-18.420	1.00	0.00	H
ATOM	1965	HA	SER	128	-11.534	3.987	-17.361	1.00	0.00	H
ATOM	1966	HB2	SER	128	-12.874	5.007	-19.287	1.00	0.00	H
ATOM	1967	HB3	SER	128	-12.564	5.993	-17.853	1.00	0.00	H
ATOM	1968	HG	SER	128	-12.084	7.313	-19.518	1.00	0.00	H
ATOM	1969	N	ALA	129	-10.884	2.149	-18.946	1.00	0.00	N
ATOM	1970	CA	ALA	129	-10.461	1.027	-19.794	1.00	0.00	C
ATOM	1971	C	ALA	129	-11.532	-0.073	-19.862	1.00	0.00	C
ATOM	1972	O	ALA	129	-12.120	-0.455	-18.859	1.00	0.00	O
ATOM	1973	CB	ALA	129	-9.138	0.496	-19.241	1.00	0.00	C
ATOM	1974	H	ALA	129	-11.236	1.922	-18.015	1.00	0.00	H
ATOM	1975	HA	ALA	129	-10.280	1.371	-20.814	1.00	0.00	H
ATOM	1976	HB1	ALA	129	-9.261	0.248	-18.188	1.00	0.00	H
ATOM	1977	HB2	ALA	129	-8.841	-0.401	-19.789	1.00	0.00	H
ATOM	1978	HB3	ALA	129	-8.357	1.251	-19.340	1.00	0.00	H
ATOM	1979	N	SER	130	-11.843	-0.545	-21.067	1.00	0.00	N
ATOM	1980	CA	SER	130	-12.923	-1.502	-21.350	1.00	0.00	C
ATOM	1981	C	SER	130	-12.586	-2.905	-20.824	1.00	0.00	C
ATOM	1982	O	SER	130	-11.402	-3.241	-20.688	1.00	0.00	O
ATOM	1983	CB	SER	130	-13.206	-1.598	-22.869	1.00	0.00	C
ATOM	1984	OG	SER	130	-13.311	-0.332	-23.487	1.00	0.00	O
ATOM	1985	H	SER	130	-11.308	-0.219	-21.866	1.00	0.00	H
ATOM	1986	HA	SER	130	-13.834	-1.160	-20.863	1.00	0.00	H
ATOM	1987	HB2	SER	130	-12.408	-2.155	-23.363	1.00	0.00	H
ATOM	1988	HB3	SER	130	-14.133	-2.142	-23.041	1.00	0.00	H
ATOM	1989	HG	SER	130	-12.384	-0.005	-23.594	1.00	0.00	H
ATOM	1990	N	PRO	131	-13.594	-3.772	-20.610	1.00	0.00	N
ATOM	1991	CA	PRO	131	-13.337	-5.198	-20.481	1.00	0.00	C

ATOM	1992	C	PRO	131	-12.654	-5.679	-21.764	1.00	0.00	C
ATOM	1993	O	PRO	131	-13.138	-5.435	-22.873	1.00	0.00	O
ATOM	1994	CB	PRO	131	-14.694	-5.861	-20.240	1.00	0.00	C
ATOM	1995	CG	PRO	131	-15.688	-4.882	-20.868	1.00	0.00	C
ATOM	1996	CD	PRO	131	-15.031	-3.519	-20.657	1.00	0.00	C
ATOM	1997	HA	PRO	131	-12.683	-5.381	-19.628	1.00	0.00	H
ATOM	1998	HB2	PRO	131	-14.755	-6.849	-20.698	1.00	0.00	H
ATOM	1999	HB3	PRO	131	-14.875	-5.930	-19.168	1.00	0.00	H
ATOM	2000	HG2	PRO	131	-15.770	-5.079	-21.938	1.00	0.00	H
ATOM	2001	HG3	PRO	131	-16.668	-4.936	-20.391	1.00	0.00	H
ATOM	2002	HD2	PRO	131	-15.319	-2.844	-21.464	1.00	0.00	H
ATOM	2003	HD3	PRO	131	-15.354	-3.099	-19.707	1.00	0.00	H
ATOM	2004	N	GLY	132	-11.491	-6.312	-21.598	1.00	0.00	N
ATOM	2005	CA	GLY	132	-10.653	-6.786	-22.696	1.00	0.00	C
ATOM	2006	C	GLY	132	-9.671	-5.758	-23.271	1.00	0.00	C
ATOM	2007	O	GLY	132	-8.870	-6.147	-24.120	1.00	0.00	O
ATOM	2008	H	GLY	132	-11.162	-6.471	-20.645	1.00	0.00	H
ATOM	2009	HA2	GLY	132	-10.074	-7.634	-22.342	1.00	0.00	H
ATOM	2010	HA3	GLY	132	-11.297	-7.106	-23.516	1.00	0.00	H
ATOM	2011	N	GLU	133	-9.693	-4.488	-22.842	1.00	0.00	N
ATOM	2012	CA	GLU	133	-8.757	-3.472	-23.352	1.00	0.00	C
ATOM	2013	C	GLU	133	-7.324	-3.689	-22.828	1.00	0.00	C
ATOM	2014	O	GLU	133	-7.084	-4.222	-21.741	1.00	0.00	O
ATOM	2015	CB	GLU	133	-9.255	-2.034	-23.080	1.00	0.00	C
ATOM	2016	CG	GLU	133	-9.165	-1.112	-24.316	1.00	0.00	C
ATOM	2017	CD	GLU	133	-9.799	0.270	-24.097	1.00	0.00	C
ATOM	2018	OE1	GLU	133	-9.325	1.292	-24.626	1.00	0.00	O
ATOM	2019	OE2	GLU	133	-10.834	0.369	-23.401	1.00	0.00	O
ATOM	2020	H	GLU	133	-10.351	-4.230	-22.112	1.00	0.00	H
ATOM	2021	HA	GLU	133	-8.721	-3.604	-24.435	1.00	0.00	H
ATOM	2022	HB2	GLU	133	-10.295	-2.086	-22.775	1.00	0.00	H
ATOM	2023	HB3	GLU	133	-8.683	-1.588	-22.263	1.00	0.00	H
ATOM	2024	HG2	GLU	133	-8.118	-0.996	-24.606	1.00	0.00	H
ATOM	2025	HG3	GLU	133	-9.685	-1.595	-25.148	1.00	0.00	H
ATOM	2026	N	LYS	134	-6.340	-3.260	-23.621	1.00	0.00	N
ATOM	2027	CA	LYS	134	-4.934	-3.259	-23.219	1.00	0.00	C
ATOM	2028	C	LYS	134	-4.642	-2.020	-22.354	1.00	0.00	C
ATOM	2029	O	LYS	134	-4.846	-0.897	-22.809	1.00	0.00	O
ATOM	2030	CB	LYS	134	-4.072	-3.304	-24.499	1.00	0.00	C
ATOM	2031	CG	LYS	134	-2.554	-3.193	-24.275	1.00	0.00	C
ATOM	2032	CD	LYS	134	-1.961	-4.410	-23.549	1.00	0.00	C
ATOM	2033	CE	LYS	134	-0.487	-4.195	-23.174	1.00	0.00	C
ATOM	2034	NZ	LYS	134	0.394	-4.038	-24.358	1.00	0.00	N
ATOM	2035	H	LYS	134	-6.589	-2.795	-24.482	1.00	0.00	H
ATOM	2036	HA	LYS	134	-4.746	-4.156	-22.626	1.00	0.00	H
ATOM	2037	HB2	LYS	134	-4.286	-4.230	-25.036	1.00	0.00	H
ATOM	2038	HB3	LYS	134	-4.372	-2.474	-25.142	1.00	0.00	H
ATOM	2039	HG2	LYS	134	-2.077	-3.101	-25.252	1.00	0.00	H
ATOM	2040	HG3	LYS	134	-2.335	-2.288	-23.706	1.00	0.00	H
ATOM	2041	HD2	LYS	134	-2.517	-4.579	-22.630	1.00	0.00	H
ATOM	2042	HD3	LYS	134	-2.071	-5.299	-24.173	1.00	0.00	H
ATOM	2043	HE2	LYS	134	-0.416	-3.305	-22.539	1.00	0.00	H
ATOM	2044	HE3	LYS	134	-0.157	-5.051	-22.578	1.00	0.00	H
ATOM	2045	HZ1	LYS	134	0.113	-3.222	-24.887	1.00	0.00	H
ATOM	2046	HZ2	LYS	134	1.357	-3.901	-24.072	1.00	0.00	H
ATOM	2047	HZ3	LYS	134	0.339	-4.856	-24.951	1.00	0.00	H
ATOM	2048	N	VAL	135	-4.083	-2.217	-21.157	1.00	0.00	N

ATOM	2049	CA	VAL	135	-3.674	-1.131	-20.248	1.00	0.00	C
ATOM	2050	C	VAL	135	-2.158	-1.159	-20.057	1.00	0.00	C
ATOM	2051	O	VAL	135	-1.571	-2.238	-19.984	1.00	0.00	O
ATOM	2052	CB	VAL	135	-4.404	-1.270	-18.888	1.00	0.00	C
ATOM	2053	CG1	VAL	135	-3.813	-0.404	-17.762	1.00	0.00	C
ATOM	2054	CG2	VAL	135	-5.900	-0.970	-19.055	1.00	0.00	C
ATOM	2055	H	VAL	135	-3.919	-3.175	-20.843	1.00	0.00	H
ATOM	2056	HA	VAL	135	-3.938	-0.164	-20.677	1.00	0.00	H
ATOM	2057	HB	VAL	135	-4.313	-2.304	-18.575	1.00	0.00	H
ATOM	2058	HG11	VAL	135	-3.693	0.622	-18.101	1.00	0.00	H
ATOM	2059	HG12	VAL	135	-4.468	-0.424	-16.888	1.00	0.00	H
ATOM	2060	HG13	VAL	135	-2.839	-0.790	-17.464	1.00	0.00	H
ATOM	2061	HG21	VAL	135	-6.344	-1.640	-19.792	1.00	0.00	H
ATOM	2062	HG22	VAL	135	-6.416	-1.123	-18.107	1.00	0.00	H
ATOM	2063	HG23	VAL	135	-6.042	0.061	-19.383	1.00	0.00	H
ATOM	2064	N	THR	136	-1.555	0.025	-19.898	1.00	0.00	N
ATOM	2065	CA	THR	136	-0.261	0.225	-19.237	1.00	0.00	C
ATOM	2066	C	THR	136	-0.305	1.581	-18.539	1.00	0.00	C
ATOM	2067	O	THR	136	-0.529	2.588	-19.208	1.00	0.00	O
ATOM	2068	CB	THR	136	0.904	0.182	-20.241	1.00	0.00	C
ATOM	2069	CG2	THR	136	2.251	0.431	-19.562	1.00	0.00	C
ATOM	2070	OG1	THR	136	0.998	-1.082	-20.854	1.00	0.00	O
ATOM	2071	H	THR	136	-2.105	0.861	-20.062	1.00	0.00	H
ATOM	2072	HA	THR	136	-0.114	-0.542	-18.486	1.00	0.00	H
ATOM	2073	HB	THR	136	0.747	0.940	-21.013	1.00	0.00	H
ATOM	2074	HG1	THR	136	1.673	-1.595	-20.379	1.00	0.00	H
ATOM	2075	HG21	THR	136	2.373	-0.232	-18.706	1.00	0.00	H
ATOM	2076	HG22	THR	136	3.057	0.261	-20.274	1.00	0.00	H
ATOM	2077	HG23	THR	136	2.310	1.465	-19.223	1.00	0.00	H
ATOM	2078	N	LEU	137	-0.099	1.625	-17.220	1.00	0.00	N
ATOM	2079	CA	LEU	137	0.170	2.866	-16.481	1.00	0.00	C
ATOM	2080	C	LEU	137	1.604	2.868	-15.946	1.00	0.00	C
ATOM	2081	O	LEU	137	2.195	1.811	-15.716	1.00	0.00	O
ATOM	2082	CB	LEU	137	-0.935	3.195	-15.441	1.00	0.00	C
ATOM	2083	CG	LEU	137	-1.297	2.242	-14.278	1.00	0.00	C
ATOM	2084	CD1	LEU	137	-1.805	0.869	-14.735	1.00	0.00	C
ATOM	2085	CD2	LEU	137	-0.180	2.088	-13.239	1.00	0.00	C
ATOM	2086	H	LEU	137	0.085	0.750	-16.739	1.00	0.00	H
ATOM	2087	HA	LEU	137	0.153	3.688	-17.198	1.00	0.00	H
ATOM	2088	HB2	LEU	137	-0.684	4.163	-14.998	1.00	0.00	H
ATOM	2089	HB3	LEU	137	-1.853	3.359	-16.005	1.00	0.00	H
ATOM	2090	HG	LEU	137	-2.136	2.709	-13.763	1.00	0.00	H
ATOM	2091	HD11	LEU	137	-0.988	0.277	-15.142	1.00	0.00	H
ATOM	2092	HD12	LEU	137	-2.232	0.334	-13.886	1.00	0.00	H
ATOM	2093	HD13	LEU	137	-2.580	0.993	-15.492	1.00	0.00	H
ATOM	2094	HD21	LEU	137	0.140	3.066	-12.883	1.00	0.00	H
ATOM	2095	HD22	LEU	137	-0.542	1.503	-12.392	1.00	0.00	H
ATOM	2096	HD23	LEU	137	0.674	1.577	-13.674	1.00	0.00	H
ATOM	2097	N	THR	138	2.203	4.054	-15.792	1.00	0.00	N
ATOM	2098	CA	THR	138	3.653	4.204	-15.585	1.00	0.00	C
ATOM	2099	C	THR	138	3.966	4.925	-14.288	1.00	0.00	C
ATOM	2100	O	THR	138	3.161	5.701	-13.769	1.00	0.00	O
ATOM	2101	CB	THR	138	4.279	4.863	-16.821	1.00	0.00	C
ATOM	2102	CG2	THR	138	5.761	5.230	-16.717	1.00	0.00	C
ATOM	2103	OG1	THR	138	4.203	3.897	-17.839	1.00	0.00	O
ATOM	2104	H	THR	138	1.660	4.897	-15.958	1.00	0.00	H
ATOM	2105	HA	THR	138	4.102	3.222	-15.493	1.00	0.00	H

ATOM	2106	HB	THR	138	3.705	5.750	-17.099	1.00	0.00	H
ATOM	2107	HG1	THR	138	4.361	4.338	-18.679	1.00	0.00	H
ATOM	2108	HG21	THR	138	6.346	4.358	-16.422	1.00	0.00	H
ATOM	2109	HG22	THR	138	6.122	5.589	-17.682	1.00	0.00	H
ATOM	2110	HG23	THR	138	5.907	6.028	-15.988	1.00	0.00	H
ATOM	2111	N	CYS	139	5.153	4.626	-13.770	1.00	0.00	N
ATOM	2112	CA	CYS	139	5.758	5.184	-12.572	1.00	0.00	C
ATOM	2113	C	CYS	139	7.147	5.758	-12.908	1.00	0.00	C
ATOM	2114	O	CYS	139	7.901	5.143	-13.667	1.00	0.00	O
ATOM	2115	CB	CYS	139	5.828	4.032	-11.563	1.00	0.00	C
ATOM	2116	SG	CYS	139	6.456	4.604	-9.972	1.00	0.00	S
ATOM	2117	H	CYS	139	5.727	3.953	-14.274	1.00	0.00	H
ATOM	2118	HA	CYS	139	5.136	5.986	-12.175	1.00	0.00	H
ATOM	2119	HB2	CYS	139	4.830	3.623	-11.420	1.00	0.00	H
ATOM	2120	HB3	CYS	139	6.476	3.244	-11.953	1.00	0.00	H
ATOM	2121	HG	CYS	139	7.756	4.422	-10.233	1.00	0.00	H
ATOM	2122	N	SER	140	7.486	6.907	-12.325	1.00	0.00	N
ATOM	2123	CA	SER	140	8.800	7.551	-12.438	1.00	0.00	C
ATOM	2124	C	SER	140	9.347	7.882	-11.041	1.00	0.00	C
ATOM	2125	O	SER	140	8.656	8.518	-10.245	1.00	0.00	O
ATOM	2126	CB	SER	140	8.708	8.864	-13.235	1.00	0.00	C
ATOM	2127	OG	SER	140	8.526	8.649	-14.625	1.00	0.00	O
ATOM	2128	H	SER	140	6.826	7.341	-11.683	1.00	0.00	H
ATOM	2129	HA	SER	140	9.502	6.894	-12.952	1.00	0.00	H
ATOM	2130	HB2	SER	140	7.882	9.461	-12.846	1.00	0.00	H
ATOM	2131	HB3	SER	140	9.634	9.423	-13.096	1.00	0.00	H
ATOM	2132	HG	SER	140	8.566	9.504	-15.066	1.00	0.00	H
ATOM	2133	N	ALA	141	10.592	7.490	-10.757	1.00	0.00	N
ATOM	2134	CA	ALA	141	11.319	7.866	-9.539	1.00	0.00	C
ATOM	2135	C	ALA	141	12.430	8.889	-9.845	1.00	0.00	C
ATOM	2136	O	ALA	141	13.145	8.740	-10.834	1.00	0.00	O
ATOM	2137	CB	ALA	141	11.901	6.586	-8.931	1.00	0.00	C
ATOM	2138	H	ALA	141	11.093	6.934	-11.442	1.00	0.00	H
ATOM	2139	HA	ALA	141	10.628	8.313	-8.826	1.00	0.00	H
ATOM	2140	HB1	ALA	141	12.631	6.155	-9.616	1.00	0.00	H
ATOM	2141	HB2	ALA	141	12.393	6.816	-7.987	1.00	0.00	H
ATOM	2142	HB3	ALA	141	11.108	5.859	-8.751	1.00	0.00	H
ATOM	2143	N	SER	142	12.629	9.902	-8.993	1.00	0.00	N
ATOM	2144	CA	SER	142	13.598	10.987	-9.288	1.00	0.00	C
ATOM	2145	C	SER	142	15.081	10.599	-9.149	1.00	0.00	C
ATOM	2146	O	SER	142	15.956	11.362	-9.549	1.00	0.00	O
ATOM	2147	CB	SER	142	13.308	12.258	-8.483	1.00	0.00	C
ATOM	2148	OG	SER	142	13.441	12.078	-7.079	1.00	0.00	O
ATOM	2149	H	SER	142	12.025	9.995	-8.185	1.00	0.00	H
ATOM	2150	HA	SER	142	13.482	11.263	-10.338	1.00	0.00	H
ATOM	2151	HB2	SER	142	14.013	13.027	-8.800	1.00	0.00	H
ATOM	2152	HB3	SER	142	12.309	12.620	-8.726	1.00	0.00	H
ATOM	2153	HG	SER	142	13.662	12.955	-6.738	1.00	0.00	H
ATOM	2154	N	SER	143	15.377	9.397	-8.654	1.00	0.00	N
ATOM	2155	CA	SER	143	16.697	8.779	-8.817	1.00	0.00	C
ATOM	2156	C	SER	143	16.537	7.377	-9.413	1.00	0.00	C
ATOM	2157	O	SER	143	15.490	6.739	-9.277	1.00	0.00	O
ATOM	2158	CB	SER	143	17.488	8.693	-7.499	1.00	0.00	C
ATOM	2159	OG	SER	143	17.379	9.866	-6.707	1.00	0.00	O
ATOM	2160	H	SER	143	14.609	8.790	-8.412	1.00	0.00	H
ATOM	2161	HA	SER	143	17.286	9.374	-9.515	1.00	0.00	H
ATOM	2162	HB2	SER	143	17.137	7.834	-6.932	1.00	0.00	H

ATOM	2163	HB3	SER	143	18.540	8.523	-7.736	1.00	0.00	H
ATOM	2164	HG	SER	143	17.983	9.811	-5.965	1.00	0.00	H
ATOM	2165	N	SER	144	17.590	6.864	-10.045	1.00	0.00	N
ATOM	2166	CA	SER	144	17.537	5.737	-10.984	1.00	0.00	C
ATOM	2167	C	SER	144	17.341	4.341	-10.362	1.00	0.00	C
ATOM	2168	O	SER	144	18.143	3.448	-10.606	1.00	0.00	O
ATOM	2169	CB	SER	144	18.773	5.784	-11.899	1.00	0.00	C
ATOM	2170	OG	SER	144	18.939	7.088	-12.427	1.00	0.00	O
ATOM	2171	H	SER	144	18.402	7.453	-10.165	1.00	0.00	H
ATOM	2172	HA	SER	144	16.680	5.896	-11.635	1.00	0.00	H
ATOM	2173	HB2	SER	144	19.663	5.507	-11.330	1.00	0.00	H
ATOM	2174	HB3	SER	144	18.638	5.075	-12.718	1.00	0.00	H
ATOM	2175	HG	SER	144	19.506	7.044	-13.206	1.00	0.00	H
ATOM	2176	N	VAL	145	16.081	4.063	-9.758	1.00	0.00	N
ATOM	2177	CA	VAL	145	16.005	2.851	-8.949	1.00	0.00	C
ATOM	2178	C	VAL	145	16.172	1.617	-9.804	1.00	0.00	C
ATOM	2179	O	VAL	145	16.310	1.108	-10.804	1.00	0.00	O
ATOM	2180	CB	VAL	145	14.631	2.811	-8.169	1.00	0.00	C
ATOM	2181	CG1	VAL	145	14.631	3.424	-6.740	1.00	0.00	C
ATOM	2182	CG2	VAL	145	13.469	3.510	-8.913	1.00	0.00	C
ATOM	2183	H	VAL	145	15.240	4.706	-9.888	1.00	0.00	H
ATOM	2184	HA	VAL	145	16.838	2.854	-8.221	1.00	0.00	H
ATOM	2185	HB	VAL	145	14.351	1.742	-8.053	1.00	0.00	H
ATOM	2186	HG11	VAL	145	14.920	4.492	-6.738	1.00	0.00	H
ATOM	2187	HG12	VAL	145	13.640	3.351	-6.253	1.00	0.00	H
ATOM	2188	HG13	VAL	145	15.324	2.899	-6.055	1.00	0.00	H
ATOM	2189	HG21	VAL	145	13.328	3.104	-9.930	1.00	0.00	H
ATOM	2190	HG22	VAL	145	12.502	3.368	-8.390	1.00	0.00	H
ATOM	2191	HG23	VAL	145	13.630	4.601	-9.015	1.00	0.00	H
ATOM	2192	N	THR	146	16.894	0.878	-8.644	1.00	0.00	N
ATOM	2193	CA	THR	146	17.408	-0.504	-8.733	1.00	0.00	C
ATOM	2194	C	THR	146	16.283	-1.498	-8.991	1.00	0.00	C
ATOM	2195	O	THR	146	16.404	-2.366	-9.847	1.00	0.00	O
ATOM	2196	CB	THR	146	18.082	-0.937	-7.424	1.00	0.00	C
ATOM	2197	CG2	THR	146	19.153	-2.002	-7.661	1.00	0.00	C
ATOM	2198	OG1	THR	146	18.652	0.173	-6.771	1.00	0.00	O
ATOM	2199	H	THR	146	16.934	1.320	-7.737	1.00	0.00	H
ATOM	2200	HA	THR	146	18.105	-0.585	-9.567	1.00	0.00	H
ATOM	2201	HB	THR	146	17.334	-1.355	-6.746	1.00	0.00	H
ATOM	2202	HG1	THR	146	19.361	0.504	-7.337	1.00	0.00	H
ATOM	2203	HG21	THR	146	19.922	-1.628	-8.337	1.00	0.00	H
ATOM	2204	HG22	THR	146	19.609	-2.283	-6.709	1.00	0.00	H
ATOM	2205	HG23	THR	146	18.691	-2.889	-8.102	1.00	0.00	H
ATOM	2206	N	TYR	147	15.202	-1.355	-8.229	1.00	0.00	N
ATOM	2207	CA	TYR	147	14.024	-2.213	-8.228	1.00	0.00	C
ATOM	2208	C	TYR	147	12.769	-1.395	-7.890	1.00	0.00	C
ATOM	2209	O	TYR	147	12.867	-0.310	-7.304	1.00	0.00	O
ATOM	2210	CB	TYR	147	14.194	-3.350	-7.204	1.00	0.00	C
ATOM	2211	CG	TYR	147	15.171	-4.449	-7.570	1.00	0.00	C
ATOM	2212	CD1	TYR	147	16.382	-4.597	-6.863	1.00	0.00	C
ATOM	2213	CD2	TYR	147	14.834	-5.369	-8.580	1.00	0.00	C
ATOM	2214	CE1	TYR	147	17.263	-5.649	-7.182	1.00	0.00	C
ATOM	2215	CE2	TYR	147	15.710	-6.422	-8.906	1.00	0.00	C
ATOM	2216	CZ	TYR	147	16.931	-6.560	-8.212	1.00	0.00	C
ATOM	2217	OH	TYR	147	17.781	-7.575	-8.529	1.00	0.00	O
ATOM	2218	H	TYR	147	15.173	-0.570	-7.597	1.00	0.00	H
ATOM	2219	HA	TYR	147	13.907	-2.639	-9.218	1.00	0.00	H



ATOM	2220	HB2	TYR	147	14.489	-2.910	-6.251	1.00	0.00	H
ATOM	2221	HB3	TYR	147	13.226	-3.831	-7.055	1.00	0.00	H
ATOM	2222	HD1	TYR	147	16.624	-3.913	-6.064	1.00	0.00	H
ATOM	2223	HD2	TYR	147	13.892	-5.281	-9.095	1.00	0.00	H
ATOM	2224	HE1	TYR	147	18.186	-5.767	-6.634	1.00	0.00	H
ATOM	2225	HE2	TYR	147	15.444	-7.135	-9.673	1.00	0.00	H
ATOM	2226	HH	TYR	147	18.547	-7.600	-7.956	1.00	0.00	H
ATOM	2227	N	MET	148	11.592	-1.938	-8.217	1.00	0.00	N
ATOM	2228	CA	MET	148	10.277	-1.347	-7.912	1.00	0.00	C
ATOM	2229	C	MET	148	9.272	-2.397	-7.435	1.00	0.00	C
ATOM	2230	O	MET	148	9.296	-3.533	-7.915	1.00	0.00	O
ATOM	2231	CB	MET	148	9.715	-0.668	-9.172	1.00	0.00	C
ATOM	2232	CG	MET	148	10.265	0.749	-9.364	1.00	0.00	C
ATOM	2233	SD	MET	148	9.971	1.936	-8.030	1.00	0.00	S
ATOM	2234	CE	MET	148	8.178	1.798	-7.886	1.00	0.00	C
ATOM	2235	H	MET	148	11.599	-2.819	-8.721	1.00	0.00	H
ATOM	2236	HA	MET	148	10.378	-0.607	-7.114	1.00	0.00	H
ATOM	2237	HB2	MET	148	9.956	-1.272	-10.050	1.00	0.00	H
ATOM	2238	HB3	MET	148	8.628	-0.612	-9.108	1.00	0.00	H
ATOM	2239	HG2	MET	148	11.342	0.684	-9.520	1.00	0.00	H
ATOM	2240	HG3	MET	148	9.826	1.159	-10.270	1.00	0.00	H
ATOM	2241	HE1	MET	148	7.909	0.799	-7.550	1.00	0.00	H
ATOM	2242	HE2	MET	148	7.827	2.513	-7.143	1.00	0.00	H
ATOM	2243	HE3	MET	148	7.714	2.005	-8.851	1.00	0.00	H
ATOM	2244	N	PHE	149	8.370	-1.994	-6.534	1.00	0.00	N
ATOM	2245	CA	PHE	149	7.248	-2.806	-6.045	1.00	0.00	C
ATOM	2246	C	PHE	149	5.893	-2.198	-6.420	1.00	0.00	C
ATOM	2247	O	PHE	149	5.748	-0.972	-6.479	1.00	0.00	O
ATOM	2248	CB	PHE	149	7.366	-2.984	-4.524	1.00	0.00	C
ATOM	2249	CG	PHE	149	8.154	-4.221	-4.158	1.00	0.00	C
ATOM	2250	CD1	PHE	149	9.546	-4.261	-4.364	1.00	0.00	C
ATOM	2251	CD2	PHE	149	7.483	-5.366	-3.690	1.00	0.00	C
ATOM	2252	CE1	PHE	149	10.262	-5.442	-4.106	1.00	0.00	C
ATOM	2253	CE2	PHE	149	8.206	-6.539	-3.425	1.00	0.00	C
ATOM	2254	CZ	PHE	149	9.595	-6.576	-3.625	1.00	0.00	C
ATOM	2255	H	PHE	149	8.440	-1.045	-6.182	1.00	0.00	H
ATOM	2256	HA	PHE	149	7.287	-3.798	-6.504	1.00	0.00	H
ATOM	2257	HB2	PHE	149	7.836	-2.105	-4.081	1.00	0.00	H
ATOM	2258	HB3	PHE	149	6.368	-3.073	-4.090	1.00	0.00	H
ATOM	2259	HD1	PHE	149	10.062	-3.392	-4.740	1.00	0.00	H
ATOM	2260	HD2	PHE	149	6.409	-5.356	-3.564	1.00	0.00	H
ATOM	2261	HE1	PHE	149	11.328	-5.491	-4.277	1.00	0.00	H
ATOM	2262	HE2	PHE	149	7.685	-7.426	-3.104	1.00	0.00	H
ATOM	2263	HZ	PHE	149	10.160	-7.484	-3.440	1.00	0.00	H
ATOM	2264	N	TRP	150	4.894	-3.066	-6.635	1.00	0.00	N
ATOM	2265	CA	TRP	150	3.522	-2.672	-6.991	1.00	0.00	C
ATOM	2266	C	TRP	150	2.450	-3.376	-6.142	1.00	0.00	C
ATOM	2267	O	TRP	150	2.592	-4.539	-5.753	1.00	0.00	O
ATOM	2268	CB	TRP	150	3.263	-2.953	-8.476	1.00	0.00	C
ATOM	2269	CG	TRP	150	4.157	-2.272	-9.469	1.00	0.00	C
ATOM	2270	CD1	TRP	150	5.354	-2.734	-9.892	1.00	0.00	C
ATOM	2271	CD2	TRP	150	3.922	-1.036	-10.214	1.00	0.00	C
ATOM	2272	CE2	TRP	150	5.020	-0.832	-11.106	1.00	0.00	C
ATOM	2273	CE3	TRP	150	2.880	-0.082	-10.247	1.00	0.00	C
ATOM	2274	NE1	TRP	150	5.870	-1.891	-10.854	1.00	0.00	N
ATOM	2275	CZ2	TRP	150	5.063	0.250	-12.000	1.00	0.00	C
ATOM	2276	CZ3	TRP	150	2.914	1.004	-11.142	1.00	0.00	C

ATOM	2277	CH2	TRP	150	3.995	1.164	-12.028	1.00	0.00	C
ATOM	2278	H	TRP	150	5.099	-4.060	-6.565	1.00	0.00	H
ATOM	2279	HA	TRP	150	3.404	-1.599	-6.826	1.00	0.00	H
ATOM	2280	HB2	TRP	150	3.323	-4.027	-8.642	1.00	0.00	H
ATOM	2281	HB3	TRP	150	2.238	-2.657	-8.710	1.00	0.00	H
ATOM	2282	HD1	TRP	150	5.828	-3.641	-9.542	1.00	0.00	H
ATOM	2283	HE1	TRP	150	6.748	-2.074	-11.324	1.00	0.00	H
ATOM	2284	HE3	TRP	150	2.036	-0.197	-9.584	1.00	0.00	H
ATOM	2285	HZ2	TRP	150	5.893	0.367	-12.678	1.00	0.00	H
ATOM	2286	HZ3	TRP	150	2.092	1.707	-11.159	1.00	0.00	H
ATOM	2287	HH2	TRP	150	3.996	1.978	-12.740	1.00	0.00	H
ATOM	2288	N	TYR	151	1.336	-2.670	-5.940	1.00	0.00	N
ATOM	2289	CA	TYR	151	0.145	-3.135	-5.237	1.00	0.00	C
ATOM	2290	C	TYR	151	-1.122	-2.770	-6.010	1.00	0.00	C
ATOM	2291	O	TYR	151	-1.195	-1.713	-6.641	1.00	0.00	O
ATOM	2292	CB	TYR	151	0.051	-2.481	-3.853	1.00	0.00	C
ATOM	2293	CG	TYR	151	1.322	-2.543	-3.040	1.00	0.00	C
ATOM	2294	CD1	TYR	151	2.136	-1.402	-2.918	1.00	0.00	C
ATOM	2295	CD2	TYR	151	1.709	-3.754	-2.440	1.00	0.00	C
ATOM	2296	CE1	TYR	151	3.342	-1.473	-2.205	1.00	0.00	C
ATOM	2297	CE2	TYR	151	2.939	-3.841	-1.762	1.00	0.00	C
ATOM	2298	CZ	TYR	151	3.757	-2.695	-1.639	1.00	0.00	C
ATOM	2299	OH	TYR	151	4.935	-2.741	-0.967	1.00	0.00	O
ATOM	2300	H	TYR	151	1.321	-1.708	-6.261	1.00	0.00	H
ATOM	2301	HA	TYR	151	0.195	-4.215	-5.115	1.00	0.00	H
ATOM	2302	HB2	TYR	151	-0.233	-1.434	-3.971	1.00	0.00	H
ATOM	2303	HB3	TYR	151	-0.744	-2.978	-3.302	1.00	0.00	H
ATOM	2304	HD1	TYR	151	1.841	-0.472	-3.380	1.00	0.00	H
ATOM	2305	HD2	TYR	151	1.061	-4.613	-2.501	1.00	0.00	H
ATOM	2306	HE1	TYR	151	3.955	-0.592	-2.107	1.00	0.00	H
ATOM	2307	HE2	TYR	151	3.249	-4.773	-1.315	1.00	0.00	H
ATOM	2308	HH	TYR	151	5.230	-1.854	-0.762	1.00	0.00	H
ATOM	2309	N	GLN	152	-2.155	-3.599	-5.904	1.00	0.00	N
ATOM	2310	CA	GLN	152	-3.510	-3.242	-6.309	1.00	0.00	C
ATOM	2311	C	GLN	152	-4.328	-3.022	-5.032	1.00	0.00	C
ATOM	2312	O	GLN	152	-4.456	-3.932	-4.221	1.00	0.00	O
ATOM	2313	CB	GLN	152	-4.054	-4.389	-7.170	1.00	0.00	C
ATOM	2314	CG	GLN	152	-5.492	-4.174	-7.642	1.00	0.00	C
ATOM	2315	CD	GLN	152	-6.091	-5.480	-8.143	1.00	0.00	C
ATOM	2316	NE2	GLN	152	-5.941	-5.804	-9.411	1.00	0.00	N
ATOM	2317	OE1	GLN	152	-6.639	-6.255	-7.370	1.00	0.00	O
ATOM	2318	H	GLN	152	-2.038	-4.446	-5.355	1.00	0.00	H
ATOM	2319	HA	GLN	152	-3.513	-2.322	-6.899	1.00	0.00	H
ATOM	2320	HB2	GLN	152	-3.419	-4.507	-8.046	1.00	0.00	H
ATOM	2321	HB3	GLN	152	-4.008	-5.312	-6.593	1.00	0.00	H
ATOM	2322	HG2	GLN	152	-6.114	-3.820	-6.821	1.00	0.00	H
ATOM	2323	HG3	GLN	152	-5.492	-3.434	-8.440	1.00	0.00	H
ATOM	2324	HE21	GLN	152	-6.420	-6.623	-9.754	1.00	0.00	H
ATOM	2325	HE22	GLN	152	-5.512	-5.149	-10.048	1.00	0.00	H
ATOM	2326	N	GLN	153	-4.875	-1.825	-4.825	1.00	0.00	N
ATOM	2327	CA	GLN	153	-5.698	-1.516	-3.658	1.00	0.00	C
ATOM	2328	C	GLN	153	-7.098	-1.088	-4.107	1.00	0.00	C
ATOM	2329	O	GLN	153	-7.287	-0.050	-4.743	1.00	0.00	O
ATOM	2330	CB	GLN	153	-5.001	-0.433	-2.824	1.00	0.00	C
ATOM	2331	CG	GLN	153	-5.737	-0.199	-1.494	1.00	0.00	C
ATOM	2332	CD	GLN	153	-5.016	0.782	-0.573	1.00	0.00	C
ATOM	2333	NE2	GLN	153	-5.486	0.981	0.638	1.00	0.00	N

ATOM	2334	OE1	GLN	153	-4.016	1.387	-0.916	1.00	0.00	O
ATOM	2335	H	GLN	153	-4.717	-1.063	-5.482	1.00	0.00	H
ATOM	2336	HA	GLN	153	-5.804	-2.402	-3.028	1.00	0.00	H
ATOM	2337	HB2	GLN	153	-3.980	-0.755	-2.609	1.00	0.00	H
ATOM	2338	HB3	GLN	153	-4.954	0.499	-3.392	1.00	0.00	H
ATOM	2339	HG2	GLN	153	-6.737	0.189	-1.693	1.00	0.00	H
ATOM	2340	HG3	GLN	153	-5.843	-1.150	-0.973	1.00	0.00	H
ATOM	2341	HE21	GLN	153	-5.024	1.674	1.198	1.00	0.00	H
ATOM	2342	HE22	GLN	153	-6.306	0.501	0.990	1.00	0.00	H
ATOM	2343	N	LYS	154	-8.110	-1.877	-3.748	1.00	0.00	N
ATOM	2344	CA	LYS	154	-9.504	-1.459	-3.891	1.00	0.00	C
ATOM	2345	C	LYS	154	-9.954	-0.626	-2.673	1.00	0.00	C
ATOM	2346	O	LYS	154	-9.429	-0.810	-1.570	1.00	0.00	O
ATOM	2347	CB	LYS	154	-10.379	-2.703	-4.134	1.00	0.00	C
ATOM	2348	CG	LYS	154	-10.235	-3.140	-5.599	1.00	0.00	C
ATOM	2349	CD	LYS	154	-11.011	-4.416	-5.936	1.00	0.00	C
ATOM	2350	CE	LYS	154	-11.027	-4.529	-7.464	1.00	0.00	C
ATOM	2351	NZ	LYS	154	-11.468	-5.846	-7.954	1.00	0.00	N
ATOM	2352	H	LYS	154	-7.925	-2.692	-3.174	1.00	0.00	H
ATOM	2353	HA	LYS	154	-9.581	-0.814	-4.765	1.00	0.00	H
ATOM	2354	HB2	LYS	154	-10.077	-3.510	-3.464	1.00	0.00	H
ATOM	2355	HB3	LYS	154	-11.426	-2.462	-3.941	1.00	0.00	H
ATOM	2356	HG2	LYS	154	-10.596	-2.326	-6.233	1.00	0.00	H
ATOM	2357	HG3	LYS	154	-9.182	-3.310	-5.823	1.00	0.00	H
ATOM	2358	HD2	LYS	154	-10.504	-5.273	-5.488	1.00	0.00	H
ATOM	2359	HD3	LYS	154	-12.032	-4.350	-5.559	1.00	0.00	H
ATOM	2360	HE2	LYS	154	-11.687	-3.756	-7.862	1.00	0.00	H
ATOM	2361	HE3	LYS	154	-10.022	-4.332	-7.849	1.00	0.00	H
ATOM	2362	HZ1	LYS	154	-12.391	-6.097	-7.632	1.00	0.00	H
ATOM	2363	HZ2	LYS	154	-11.451	-5.821	-8.970	1.00	0.00	H
ATOM	2364	HZ3	LYS	154	-10.777	-6.545	-7.708	1.00	0.00	H
ATOM	2365	N	PRO	155	-10.941	0.279	-2.837	1.00	0.00	N
ATOM	2366	CA	PRO	155	-11.566	0.943	-1.701	1.00	0.00	C
ATOM	2367	C	PRO	155	-12.249	-0.119	-0.841	1.00	0.00	C
ATOM	2368	O	PRO	155	-12.977	-0.963	-1.363	1.00	0.00	O
ATOM	2369	CB	PRO	155	-12.553	1.954	-2.292	1.00	0.00	C
ATOM	2370	CG	PRO	155	-12.909	1.349	-3.652	1.00	0.00	C
ATOM	2371	CD	PRO	155	-11.620	0.646	-4.075	1.00	0.00	C
ATOM	2372	HA	PRO	155	-10.812	1.466	-1.109	1.00	0.00	H
ATOM	2373	HB2	PRO	155	-13.433	2.084	-1.662	1.00	0.00	H
ATOM	2374	HB3	PRO	155	-12.046	2.908	-2.440	1.00	0.00	H
ATOM	2375	HG2	PRO	155	-13.704	0.612	-3.527	1.00	0.00	H
ATOM	2376	HG3	PRO	155	-13.210	2.114	-4.367	1.00	0.00	H
ATOM	2377	HD2	PRO	155	-11.861	-0.228	-4.684	1.00	0.00	H
ATOM	2378	HD3	PRO	155	-10.992	1.337	-4.638	1.00	0.00	H
ATOM	2379	N	GLY	156	-11.964	-0.096	0.463	1.00	0.00	N
ATOM	2380	CA	GLY	156	-12.436	-1.109	1.410	1.00	0.00	C
ATOM	2381	C	GLY	156	-11.506	-2.316	1.573	1.00	0.00	C
ATOM	2382	O	GLY	156	-11.821	-3.192	2.368	1.00	0.00	O
ATOM	2383	H	GLY	156	-11.337	0.619	0.811	1.00	0.00	H
ATOM	2384	HA2	GLY	156	-12.536	-0.655	2.396	1.00	0.00	H
ATOM	2385	HA3	GLY	156	-13.407	-1.489	1.088	1.00	0.00	H
ATOM	2386	N	SER	157	-10.370	-2.389	0.871	1.00	0.00	N
ATOM	2387	CA	SER	157	-9.355	-3.430	1.091	1.00	0.00	C
ATOM	2388	C	SER	157	-7.991	-2.860	1.506	1.00	0.00	C
ATOM	2389	O	SER	157	-7.719	-1.661	1.418	1.00	0.00	O
ATOM	2390	CB	SER	157	-9.204	-4.332	-0.153	1.00	0.00	C

ATOM	2391	OG	SER	157	-8.306	-3.837	-1.146	1.00	0.00	O
ATOM	2392	H	SER	157	-10.136	-1.656	0.209	1.00	0.00	H
ATOM	2393	HA	SER	157	-9.678	-4.072	1.915	1.00	0.00	H
ATOM	2394	HB2	SER	157	-8.835	-5.305	0.174	1.00	0.00	H
ATOM	2395	HB3	SER	157	-10.187	-4.489	-0.600	1.00	0.00	H
ATOM	2396	HG	SER	157	-7.394	-3.879	-0.795	1.00	0.00	H
ATOM	2397	N	SER	158	-7.089	-3.737	1.933	1.00	0.00	N
ATOM	2398	CA	SER	158	-5.664	-3.446	2.020	1.00	0.00	C
ATOM	2399	C	SER	158	-4.974	-3.585	0.642	1.00	0.00	C
ATOM	2400	O	SER	158	-5.620	-4.015	-0.329	1.00	0.00	O
ATOM	2401	CB	SER	158	-5.064	-4.367	3.092	1.00	0.00	C
ATOM	2402	OG	SER	158	-5.533	-5.709	2.994	1.00	0.00	O
ATOM	2403	H	SER	158	-7.321	-4.717	2.028	1.00	0.00	H
ATOM	2404	HA	SER	158	-5.539	-2.416	2.353	1.00	0.00	H
ATOM	2405	HB2	SER	158	-3.977	-4.356	3.030	1.00	0.00	H
ATOM	2406	HB3	SER	158	-5.357	-3.971	4.066	1.00	0.00	H
ATOM	2407	HG	SER	158	-5.242	-6.148	3.812	1.00	0.00	H
ATOM	2408	N	PRO	159	-3.689	-3.186	0.517	1.00	0.00	N
ATOM	2409	CA	PRO	159	-2.908	-3.358	-0.703	1.00	0.00	C
ATOM	2410	C	PRO	159	-2.639	-4.841	-1.009	1.00	0.00	C
ATOM	2411	O	PRO	159	-1.924	-5.524	-0.275	1.00	0.00	O
ATOM	2412	CB	PRO	159	-1.611	-2.558	-0.487	1.00	0.00	C
ATOM	2413	CG	PRO	159	-1.956	-1.575	0.628	1.00	0.00	C
ATOM	2414	CD	PRO	159	-2.944	-2.372	1.469	1.00	0.00	C
ATOM	2415	HA	PRO	159	-3.458	-2.910	-1.532	1.00	0.00	H
ATOM	2416	HB2	PRO	159	-0.802	-3.207	-0.150	1.00	0.00	H
ATOM	2417	HB3	PRO	159	-1.317	-2.019	-1.383	1.00	0.00	H
ATOM	2418	HG2	PRO	159	-1.077	-1.278	1.198	1.00	0.00	H
ATOM	2419	HG3	PRO	159	-2.452	-0.700	0.208	1.00	0.00	H
ATOM	2420	HD2	PRO	159	-2.398	-3.025	2.150	1.00	0.00	H
ATOM	2421	HD3	PRO	159	-3.579	-1.685	2.029	1.00	0.00	H
ATOM	2422	N	ARG	160	-3.183	-5.335	-2.129	1.00	0.00	N
ATOM	2423	CA	ARG	160	-2.889	-6.660	-2.692	1.00	0.00	C
ATOM	2424	C	ARG	160	-1.479	-6.619	-3.291	1.00	0.00	C
ATOM	2425	O	ARG	160	-1.267	-5.941	-4.301	1.00	0.00	O
ATOM	2426	CB	ARG	160	-3.960	-6.971	-3.767	1.00	0.00	C
ATOM	2427	CG	ARG	160	-3.955	-8.351	-4.453	1.00	0.00	C
ATOM	2428	CD	ARG	160	-4.988	-8.327	-5.604	1.00	0.00	C
ATOM	2429	NE	ARG	160	-5.162	-9.629	-6.276	1.00	0.00	N
ATOM	2430	CZ	ARG	160	-6.013	-9.898	-7.264	1.00	0.00	C
ATOM	2431	NH1	ARG	160	-6.817	-9.025	-7.826	1.00	0.00	N
ATOM	2432	NH2	ARG	160	-6.092	-11.109	-7.754	1.00	0.00	N
ATOM	2433	H	ARG	160	-3.764	-4.719	-2.690	1.00	0.00	H
ATOM	2434	HA	ARG	160	-2.939	-7.412	-1.905	1.00	0.00	H
ATOM	2435	HB2	ARG	160	-4.945	-6.822	-3.317	1.00	0.00	H
ATOM	2436	HB3	ARG	160	-3.851	-6.239	-4.559	1.00	0.00	H
ATOM	2437	HG2	ARG	160	-2.966	-8.560	-4.861	1.00	0.00	H
ATOM	2438	HG3	ARG	160	-4.221	-9.119	-3.726	1.00	0.00	H
ATOM	2439	HD2	ARG	160	-5.954	-8.010	-5.206	1.00	0.00	H
ATOM	2440	HD3	ARG	160	-4.665	-7.594	-6.342	1.00	0.00	H
ATOM	2441	HE	ARG	160	-4.563	-10.393	-5.984	1.00	0.00	H
ATOM	2442	HH11	ARG	160	-6.804	-8.043	-7.565	1.00	0.00	H
ATOM	2443	HH12	ARG	160	-7.427	-9.369	-8.570	1.00	0.00	H
ATOM	2444	HH21	ARG	160	-5.482	-11.835	-7.410	1.00	0.00	H
ATOM	2445	HH22	ARG	160	-6.759	-11.274	-8.517	1.00	0.00	H
ATOM	2446	N	LEU	161	-0.511	-7.348	-2.723	1.00	0.00	N
ATOM	2447	CA	LEU	161	0.831	-7.514	-3.312	1.00	0.00	C

ATOM	2448	C	LEU	161	0.722	-8.066	-4.742	1.00	0.00	C
ATOM	2449	O	LEU	161	0.149	-9.135	-4.941	1.00	0.00	O
ATOM	2450	CB	LEU	161	1.679	-8.419	-2.394	1.00	0.00	C
ATOM	2451	CG	LEU	161	3.133	-8.630	-2.881	1.00	0.00	C
ATOM	2452	CD1	LEU	161	3.978	-7.349	-2.799	1.00	0.00	C
ATOM	2453	CD2	LEU	161	3.812	-9.737	-2.065	1.00	0.00	C
ATOM	2454	H	LEU	161	-0.713	-7.809	-1.847	1.00	0.00	H
ATOM	2455	HA	LEU	161	1.309	-6.538	-3.370	1.00	0.00	H
ATOM	2456	HB2	LEU	161	1.709	-7.991	-1.388	1.00	0.00	H
ATOM	2457	HB3	LEU	161	1.191	-9.393	-2.328	1.00	0.00	H
ATOM	2458	HG	LEU	161	3.112	-8.952	-3.920	1.00	0.00	H
ATOM	2459	HD11	LEU	161	4.031	-7.005	-1.766	1.00	0.00	H
ATOM	2460	HD12	LEU	161	4.987	-7.555	-3.156	1.00	0.00	H
ATOM	2461	HD13	LEU	161	3.548	-6.565	-3.421	1.00	0.00	H
ATOM	2462	HD21	LEU	161	3.234	-10.658	-2.129	1.00	0.00	H
ATOM	2463	HD22	LEU	161	4.812	-9.923	-2.457	1.00	0.00	H
ATOM	2464	HD23	LEU	161	3.892	-9.439	-1.021	1.00	0.00	H
ATOM	2465	N	LEU	162	1.232	-7.312	-5.724	1.00	0.00	N
ATOM	2466	CA	LEU	162	0.983	-7.556	-7.148	1.00	0.00	C
ATOM	2467	C	LEU	162	2.247	-8.005	-7.888	1.00	0.00	C
ATOM	2468	O	LEU	162	2.290	-9.090	-8.460	1.00	0.00	O
ATOM	2469	CB	LEU	162	0.393	-6.261	-7.746	1.00	0.00	C
ATOM	2470	CG	LEU	162	-0.227	-6.441	-9.145	1.00	0.00	C
ATOM	2471	CD1	LEU	162	-1.608	-7.108	-9.044	1.00	0.00	C
ATOM	2472	CD2	LEU	162	-0.354	-5.063	-9.805	1.00	0.00	C
ATOM	2473	H	LEU	162	1.684	-6.442	-5.474	1.00	0.00	H
ATOM	2474	HA	LEU	162	0.256	-8.359	-7.245	1.00	0.00	H
ATOM	2475	HB2	LEU	162	-0.377	-5.877	-7.074	1.00	0.00	H
ATOM	2476	HB3	LEU	162	1.182	-5.511	-7.801	1.00	0.00	H
ATOM	2477	HG	LEU	162	0.421	-7.060	-9.764	1.00	0.00	H
ATOM	2478	HD11	LEU	162	-2.291	-6.482	-8.472	1.00	0.00	H
ATOM	2479	HD12	LEU	162	-2.015	-7.260	-10.042	1.00	0.00	H
ATOM	2480	HD13	LEU	162	-1.524	-8.074	-8.548	1.00	0.00	H
ATOM	2481	HD21	LEU	162	0.635	-4.620	-9.926	1.00	0.00	H
ATOM	2482	HD22	LEU	162	-0.812	-5.163	-10.788	1.00	0.00	H
ATOM	2483	HD23	LEU	162	-0.965	-4.406	-9.186	1.00	0.00	H
ATOM	2484	N	ILE	163	3.286	-7.168	-7.875	1.00	0.00	N
ATOM	2485	CA	ILE	163	4.595	-7.444	-8.482	1.00	0.00	C
ATOM	2486	C	ILE	163	5.686	-7.112	-7.469	1.00	0.00	C
ATOM	2487	O	ILE	163	5.666	-6.031	-6.875	1.00	0.00	O
ATOM	2488	CB	ILE	163	4.764	-6.685	-9.825	1.00	0.00	C
ATOM	2489	CG1	ILE	163	3.794	-7.293	-10.869	1.00	0.00	C
ATOM	2490	CG2	ILE	163	6.221	-6.708	-10.325	1.00	0.00	C
ATOM	2491	CD1	ILE	163	3.980	-6.808	-12.306	1.00	0.00	C
ATOM	2492	H	ILE	163	3.207	-6.329	-7.316	1.00	0.00	H
ATOM	2493	HA	ILE	163	4.682	-8.507	-8.689	1.00	0.00	H
ATOM	2494	HB	ILE	163	4.493	-5.641	-9.675	1.00	0.00	H
ATOM	2495	HG12	ILE	163	3.910	-8.374	-10.874	1.00	0.00	H
ATOM	2496	HG13	ILE	163	2.771	-7.062	-10.572	1.00	0.00	H
ATOM	2497	HG21	ILE	163	6.530	-7.734	-10.510	1.00	0.00	H
ATOM	2498	HG22	ILE	163	6.320	-6.131	-11.245	1.00	0.00	H
ATOM	2499	HG23	ILE	163	6.893	-6.256	-9.598	1.00	0.00	H
ATOM	2500	HD11	ILE	163	4.901	-7.225	-12.715	1.00	0.00	H
ATOM	2501	HD12	ILE	163	3.150	-7.157	-12.917	1.00	0.00	H
ATOM	2502	HD13	ILE	163	4.022	-5.720	-12.330	1.00	0.00	H
ATOM	2503	N	TYR	164	6.615	-8.052	-7.305	1.00	0.00	N
ATOM	2504	CA	TYR	164	7.850	-7.934	-6.534	1.00	0.00	C

ATOM	2505	C	TYR	164	9.087	-7.913	-7.453	1.00	0.00	C
ATOM	2506	O	TYR	164	9.068	-8.490	-8.543	1.00	0.00	O
ATOM	2507	CB	TYR	164	7.925	-9.092	-5.519	1.00	0.00	C
ATOM	2508	CG	TYR	164	8.301	-10.459	-6.066	1.00	0.00	C
ATOM	2509	CD1	TYR	164	7.326	-11.305	-6.629	1.00	0.00	C
ATOM	2510	CD2	TYR	164	9.631	-10.911	-5.955	1.00	0.00	C
ATOM	2511	CE1	TYR	164	7.679	-12.591	-7.087	1.00	0.00	C
ATOM	2512	CE2	TYR	164	9.992	-12.188	-6.418	1.00	0.00	C
ATOM	2513	CZ	TYR	164	9.018	-13.035	-6.984	1.00	0.00	C
ATOM	2514	OH	TYR	164	9.362	-14.274	-7.430	1.00	0.00	O
ATOM	2515	H	TYR	164	6.559	-8.875	-7.894	1.00	0.00	H
ATOM	2516	HA	TYR	164	7.832	-6.991	-5.988	1.00	0.00	H
ATOM	2517	HB2	TYR	164	8.676	-8.840	-4.775	1.00	0.00	H
ATOM	2518	HB3	TYR	164	6.973	-9.169	-4.994	1.00	0.00	H
ATOM	2519	HD1	TYR	164	6.306	-10.963	-6.723	1.00	0.00	H
ATOM	2520	HD2	TYR	164	10.386	-10.280	-5.505	1.00	0.00	H
ATOM	2521	HE1	TYR	164	6.933	-13.229	-7.533	1.00	0.00	H
ATOM	2522	HE2	TYR	164	11.019	-12.515	-6.340	1.00	0.00	H
ATOM	2523	HH	TYR	164	8.619	-14.744	-7.813	1.00	0.00	H
ATOM	2524	N	ASP	165	10.158	-7.239	-7.023	1.00	0.00	N
ATOM	2525	CA	ASP	165	11.454	-7.161	-7.714	1.00	0.00	C
ATOM	2526	C	ASP	165	11.306	-6.800	-9.205	1.00	0.00	C
ATOM	2527	O	ASP	165	11.731	-7.539	-10.100	1.00	0.00	O
ATOM	2528	CB	ASP	165	12.284	-8.436	-7.459	1.00	0.00	C
ATOM	2529	CG	ASP	165	12.642	-8.661	-5.983	1.00	0.00	C
ATOM	2530	OD1	ASP	165	12.520	-7.700	-5.185	1.00	0.00	O
ATOM	2531	OD2	ASP	165	13.029	-9.802	-5.662	1.00	0.00	O
ATOM	2532	H	ASP	165	10.133	-6.857	-6.087	1.00	0.00	H
ATOM	2533	HA	ASP	165	12.010	-6.337	-7.264	1.00	0.00	H
ATOM	2534	HB2	ASP	165	11.735	-9.302	-7.830	1.00	0.00	H
ATOM	2535	HB3	ASP	165	13.218	-8.359	-8.018	1.00	0.00	H
ATOM	2536	N	THR	166	10.636	-5.669	-9.470	1.00	0.00	N
ATOM	2537	CA	THR	166	10.515	-4.986	-10.775	1.00	0.00	C
ATOM	2538	C	THR	166	9.488	-5.636	-11.689	1.00	0.00	C
ATOM	2539	O	THR	166	8.586	-4.936	-12.143	1.00	0.00	O
ATOM	2540	CB	THR	166	11.888	-4.805	-11.447	1.00	0.00	C
ATOM	2541	CG2	THR	166	11.836	-4.455	-12.931	1.00	0.00	C
ATOM	2542	OG1	THR	166	12.516	-3.736	-10.785	1.00	0.00	O
ATOM	2543	H	THR	166	10.198	-5.212	-8.677	1.00	0.00	H
ATOM	2544	HA	THR	166	10.126	-3.985	-10.590	1.00	0.00	H
ATOM	2545	HB	THR	166	12.503	-5.695	-11.346	1.00	0.00	H
ATOM	2546	HG1	THR	166	13.405	-3.660	-11.154	1.00	0.00	H
ATOM	2547	HG21	THR	166	11.093	-3.680	-13.113	1.00	0.00	H
ATOM	2548	HG22	THR	166	12.817	-4.135	-13.281	1.00	0.00	H
ATOM	2549	HG23	THR	166	11.567	-5.341	-13.496	1.00	0.00	H
ATOM	2550	N	SER	167	9.593	-6.937	-11.972	1.00	0.00	N
ATOM	2551	CA	SER	167	8.772	-7.604	-13.002	1.00	0.00	C
ATOM	2552	C	SER	167	8.006	-8.854	-12.544	1.00	0.00	C
ATOM	2553	O	SER	167	7.038	-9.231	-13.204	1.00	0.00	O
ATOM	2554	CB	SER	167	9.654	-8.020	-14.194	1.00	0.00	C
ATOM	2555	OG	SER	167	10.240	-6.916	-14.860	1.00	0.00	O
ATOM	2556	H	SER	167	10.373	-7.432	-11.551	1.00	0.00	H
ATOM	2557	HA	SER	167	8.018	-6.915	-13.375	1.00	0.00	H
ATOM	2558	HB2	SER	167	10.441	-8.686	-13.839	1.00	0.00	H
ATOM	2559	HB3	SER	167	9.043	-8.561	-14.919	1.00	0.00	H
ATOM	2560	HG	SER	167	9.554	-6.249	-15.057	1.00	0.00	H
ATOM	2561	N	ASN	168	8.407	-9.510	-11.454	1.00	0.00	N

ATOM	2562	CA	ASN	168	7.886	-10.828	-11.073	1.00	0.00	C
ATOM	2563	C	ASN	168	6.519	-10.717	-10.367	1.00	0.00	C
ATOM	2564	O	ASN	168	6.434	-10.072	-9.321	1.00	0.00	O
ATOM	2565	CB	ASN	168	8.905	-11.521	-10.152	1.00	0.00	C
ATOM	2566	CG	ASN	168	10.326	-11.508	-10.704	1.00	0.00	C
ATOM	2567	ND2	ASN	168	11.141	-10.547	-10.307	1.00	0.00	N
ATOM	2568	OD1	ASN	168	10.696	-12.338	-11.522	1.00	0.00	O
ATOM	2569	H	ASN	168	9.139	-9.114	-10.876	1.00	0.00	H
ATOM	2570	HA	ASN	168	7.773	-11.432	-11.975	1.00	0.00	H
ATOM	2571	HB2	ASN	168	8.909	-11.026	-9.181	1.00	0.00	H
ATOM	2572	HB3	ASN	168	8.599	-12.556	-9.999	1.00	0.00	H
ATOM	2573	HD21	ASN	168	12.089	-10.560	-10.641	1.00	0.00	H
ATOM	2574	HD22	ASN	168	10.867	-9.881	-9.596	1.00	0.00	H
ATOM	2575	N	LEU	169	5.440	-11.331	-10.881	1.00	0.00	N
ATOM	2576	CA	LEU	169	4.160	-11.302	-10.155	1.00	0.00	C
ATOM	2577	C	LEU	169	4.154	-12.206	-8.914	1.00	0.00	C
ATOM	2578	O	LEU	169	4.801	-13.250	-8.868	1.00	0.00	O
ATOM	2579	CB	LEU	169	2.906	-11.336	-11.055	1.00	0.00	C
ATOM	2580	CG	LEU	169	2.760	-12.396	-12.166	1.00	0.00	C
ATOM	2581	CD1	LEU	169	2.346	-13.771	-11.629	1.00	0.00	C
ATOM	2582	CD2	LEU	169	1.677	-11.905	-13.145	1.00	0.00	C
ATOM	2583	H	LEU	169	5.517	-11.855	-11.738	1.00	0.00	H
ATOM	2584	HA	LEU	169	4.104	-10.306	-9.724	1.00	0.00	H
ATOM	2585	HB2	LEU	169	2.034	-11.407	-10.403	1.00	0.00	H
ATOM	2586	HB3	LEU	169	2.864	-10.356	-11.533	1.00	0.00	H
ATOM	2587	HG	LEU	169	3.698	-12.489	-12.712	1.00	0.00	H
ATOM	2588	HD11	LEU	169	3.114	-14.161	-10.962	1.00	0.00	H
ATOM	2589	HD12	LEU	169	1.401	-13.693	-11.090	1.00	0.00	H
ATOM	2590	HD13	LEU	169	2.213	-14.463	-12.463	1.00	0.00	H
ATOM	2591	HD21	LEU	169	1.581	-12.596	-13.982	1.00	0.00	H
ATOM	2592	HD22	LEU	169	0.719	-11.816	-12.635	1.00	0.00	H
ATOM	2593	HD23	LEU	169	1.955	-10.927	-13.532	1.00	0.00	H
ATOM	2594	N	ALA	170	3.477	-11.713	-7.877	1.00	0.00	N
ATOM	2595	CA	ALA	170	3.370	-12.334	-6.566	1.00	0.00	C
ATOM	2596	C	ALA	170	2.224	-13.364	-6.506	1.00	0.00	C
ATOM	2597	O	ALA	170	1.639	-13.748	-7.512	1.00	0.00	O
ATOM	2598	CB	ALA	170	3.230	-11.199	-5.539	1.00	0.00	C
ATOM	2599	H	ALA	170	2.955	-10.858	-8.029	1.00	0.00	H
ATOM	2600	HA	ALA	170	4.294	-12.878	-6.361	1.00	0.00	H
ATOM	2601	HB1	ALA	170	2.295	-10.661	-5.709	1.00	0.00	H
ATOM	2602	HB2	ALA	170	3.237	-11.600	-4.526	1.00	0.00	H
ATOM	2603	HB3	ALA	170	4.066	-10.505	-5.644	1.00	0.00	H
ATOM	2604	N	SER	171	1.900	-13.839	-5.307	1.00	0.00	N
ATOM	2605	CA	SER	171	1.134	-15.077	-5.136	1.00	0.00	C
ATOM	2606	C	SER	171	-0.355	-14.942	-5.484	1.00	0.00	C
ATOM	2607	O	SER	171	-0.890	-15.747	-6.239	1.00	0.00	O
ATOM	2608	CB	SER	171	1.301	-15.566	-3.686	1.00	0.00	C
ATOM	2609	OG	SER	171	2.563	-15.182	-3.152	1.00	0.00	O
ATOM	2610	H	SER	171	2.449	-13.551	-4.510	1.00	0.00	H
ATOM	2611	HA	SER	171	1.546	-15.835	-5.806	1.00	0.00	H
ATOM	2612	HB2	SER	171	0.517	-15.133	-3.062	1.00	0.00	H
ATOM	2613	HB3	SER	171	1.199	-16.652	-3.669	1.00	0.00	H
ATOM	2614	HG	SER	171	2.755	-15.717	-2.375	1.00	0.00	H
ATOM	2615	N	GLY	172	-1.047	-13.917	-4.971	1.00	0.00	N
ATOM	2616	CA	GLY	172	-2.501	-13.748	-5.133	1.00	0.00	C
ATOM	2617	C	GLY	172	-2.882	-13.041	-6.432	1.00	0.00	C
ATOM	2618	O	GLY	172	-3.757	-12.176	-6.405	1.00	0.00	O

ATOM	2619	H	GLY	172	-0.546	-13.220	-4.440	1.00	0.00	H
ATOM	2620	HA2	GLY	172	-2.984	-14.727	-5.139	1.00	0.00	H
ATOM	2621	HA3	GLY	172	-2.890	-13.152	-4.307	1.00	0.00	H
ATOM	2622	N	VAL	173	-2.193	-13.360	-7.534	1.00	0.00	N
ATOM	2623	CA	VAL	173	-2.121	-12.495	-8.728	1.00	0.00	C
ATOM	2624	C	VAL	173	-2.370	-13.292	-10.023	1.00	0.00	C
ATOM	2625	O	VAL	173	-1.777	-14.359	-10.194	1.00	0.00	O
ATOM	2626	CB	VAL	173	-0.756	-11.771	-8.819	1.00	0.00	C
ATOM	2627	CG1	VAL	173	-0.760	-10.705	-9.929	1.00	0.00	C
ATOM	2628	CG2	VAL	173	-0.407	-11.080	-7.489	1.00	0.00	C
ATOM	2629	H	VAL	173	-1.550	-14.150	-7.467	1.00	0.00	H
ATOM	2630	HA	VAL	173	-2.880	-11.725	-8.613	1.00	0.00	H
ATOM	2631	HB	VAL	173	0.018	-12.498	-9.049	1.00	0.00	H
ATOM	2632	HG11	VAL	173	-1.584	-10.008	-9.779	1.00	0.00	H
ATOM	2633	HG12	VAL	173	0.174	-10.144	-9.922	1.00	0.00	H
ATOM	2634	HG13	VAL	173	-0.866	-11.178	-10.904	1.00	0.00	H
ATOM	2635	HG21	VAL	173	-0.320	-11.801	-6.679	1.00	0.00	H
ATOM	2636	HG22	VAL	173	0.558	-10.593	-7.574	1.00	0.00	H
ATOM	2637	HG23	VAL	173	-1.170	-10.343	-7.233	1.00	0.00	H
ATOM	2638	N	PRO	174	-3.231	-12.799	-10.935	1.00	0.00	N
ATOM	2639	CA	PRO	174	-3.568	-13.455	-12.194	1.00	0.00	C
ATOM	2640	C	PRO	174	-2.557	-13.121	-13.300	1.00	0.00	C
ATOM	2641	O	PRO	174	-1.943	-12.054	-13.314	1.00	0.00	O
ATOM	2642	CB	PRO	174	-4.965	-12.935	-12.548	1.00	0.00	C
ATOM	2643	CG	PRO	174	-4.910	-11.507	-12.015	1.00	0.00	C
ATOM	2644	CD	PRO	174	-4.083	-11.633	-10.749	1.00	0.00	C
ATOM	2645	HA	PRO	174	-3.609	-14.536	-12.055	1.00	0.00	H
ATOM	2646	HB2	PRO	174	-5.163	-12.963	-13.619	1.00	0.00	H
ATOM	2647	HB3	PRO	174	-5.720	-13.502	-12.003	1.00	0.00	H
ATOM	2648	HG2	PRO	174	-4.400	-10.866	-12.732	1.00	0.00	H
ATOM	2649	HG3	PRO	174	-5.888	-11.113	-11.770	1.00	0.00	H
ATOM	2650	HD2	PRO	174	-3.506	-10.724	-10.594	1.00	0.00	H
ATOM	2651	HD3	PRO	174	-4.750	-11.811	-9.907	1.00	0.00	H
ATOM	2652	N	VAL	175	-2.428	-14.029	-14.270	1.00	0.00	N
ATOM	2653	CA	VAL	175	-1.487	-13.938	-15.399	1.00	0.00	C
ATOM	2654	C	VAL	175	-1.965	-12.950	-16.471	1.00	0.00	C
ATOM	2655	O	VAL	175	-2.483	-13.315	-17.527	1.00	0.00	O
ATOM	2656	CB	VAL	175	-1.131	-15.323	-15.991	1.00	0.00	C
ATOM	2657	CG1	VAL	175	-0.154	-16.052	-15.052	1.00	0.00	C
ATOM	2658	CG2	VAL	175	-2.357	-16.227	-16.234	1.00	0.00	C
ATOM	2659	H	VAL	175	-2.966	-14.877	-14.183	1.00	0.00	H
ATOM	2660	HA	VAL	175	-0.559	-13.524	-15.001	1.00	0.00	H
ATOM	2661	HB	VAL	175	-0.615	-15.171	-16.941	1.00	0.00	H
ATOM	2662	HG11	VAL	175	-0.623	-16.232	-14.083	1.00	0.00	H
ATOM	2663	HG12	VAL	175	0.137	-17.007	-15.492	1.00	0.00	H
ATOM	2664	HG13	VAL	175	0.742	-15.447	-14.908	1.00	0.00	H
ATOM	2665	HG21	VAL	175	-3.081	-15.728	-16.878	1.00	0.00	H
ATOM	2666	HG22	VAL	175	-2.038	-17.148	-16.724	1.00	0.00	H
ATOM	2667	HG23	VAL	175	-2.839	-16.482	-15.289	1.00	0.00	H
ATOM	2668	N	ARG	176	-1.758	-11.665	-16.174	1.00	0.00	N
ATOM	2669	CA	ARG	176	-1.995	-10.538	-17.086	1.00	0.00	C
ATOM	2670	C	ARG	176	-1.108	-9.313	-16.818	1.00	0.00	C
ATOM	2671	O	ARG	176	-1.086	-8.416	-17.655	1.00	0.00	O
ATOM	2672	CB	ARG	176	-3.487	-10.143	-17.079	1.00	0.00	C
ATOM	2673	CG	ARG	176	-3.968	-9.621	-15.715	1.00	0.00	C
ATOM	2674	CD	ARG	176	-5.425	-9.142	-15.740	1.00	0.00	C
ATOM	2675	NE	ARG	176	-6.374	-10.262	-15.856	1.00	0.00	N



ATOM	2676	CZ	ARG	176	-7.087	-10.760	-14.853	1.00	0.00	C
ATOM	2677	NH1	ARG	176	-7.226	-10.151	-13.707	1.00	0.00	N
ATOM	2678	NH2	ARG	176	-7.689	-11.920	-14.954	1.00	0.00	N
ATOM	2679	H	ARG	176	-1.420	-11.479	-15.237	1.00	0.00	H
ATOM	2680	HA	ARG	176	-1.745	-10.883	-18.088	1.00	0.00	H
ATOM	2681	HB2	ARG	176	-3.645	-9.362	-17.823	1.00	0.00	H
ATOM	2682	HB3	ARG	176	-4.088	-11.007	-17.370	1.00	0.00	H
ATOM	2683	HG2	ARG	176	-3.858	-10.401	-14.964	1.00	0.00	H
ATOM	2684	HG3	ARG	176	-3.346	-8.778	-15.420	1.00	0.00	H
ATOM	2685	HD2	ARG	176	-5.593	-8.591	-14.815	1.00	0.00	H
ATOM	2686	HD3	ARG	176	-5.581	-8.451	-16.568	1.00	0.00	H
ATOM	2687	HE	ARG	176	-6.479	-10.678	-16.762	1.00	0.00	H
ATOM	2688	HH11	ARG	176	-6.983	-9.164	-13.587	1.00	0.00	H
ATOM	2689	HH12	ARG	176	-7.676	-10.650	-12.944	1.00	0.00	H
ATOM	2690	HH21	ARG	176	-7.712	-12.428	-15.820	1.00	0.00	H
ATOM	2691	HH22	ARG	176	-8.188	-12.259	-14.138	1.00	0.00	H
ATOM	2692	N	PHE	177	-0.424	-9.256	-15.672	1.00	0.00	N
ATOM	2693	CA	PHE	177	0.397	-8.123	-15.238	1.00	0.00	C
ATOM	2694	C	PHE	177	1.886	-8.285	-15.602	1.00	0.00	C
ATOM	2695	O	PHE	177	2.454	-9.360	-15.434	1.00	0.00	O
ATOM	2696	CB	PHE	177	0.226	-7.953	-13.719	1.00	0.00	C
ATOM	2697	CG	PHE	177	-1.161	-7.515	-13.289	1.00	0.00	C
ATOM	2698	CD1	PHE	177	-2.113	-8.446	-12.823	1.00	0.00	C
ATOM	2699	CD2	PHE	177	-1.496	-6.150	-13.350	1.00	0.00	C
ATOM	2700	CE1	PHE	177	-3.393	-8.006	-12.438	1.00	0.00	C
ATOM	2701	CE2	PHE	177	-2.768	-5.712	-12.942	1.00	0.00	C
ATOM	2702	CZ	PHE	177	-3.720	-6.642	-12.497	1.00	0.00	C
ATOM	2703	H	PHE	177	-0.500	-10.032	-15.036	1.00	0.00	H
ATOM	2704	HA	PHE	177	0.023	-7.221	-15.712	1.00	0.00	H
ATOM	2705	HB2	PHE	177	0.490	-8.880	-13.209	1.00	0.00	H
ATOM	2706	HB3	PHE	177	0.925	-7.188	-13.379	1.00	0.00	H
ATOM	2707	HD1	PHE	177	-1.866	-9.495	-12.766	1.00	0.00	H
ATOM	2708	HD2	PHE	177	-0.771	-5.437	-13.710	1.00	0.00	H
ATOM	2709	HE1	PHE	177	-4.137	-8.707	-12.092	1.00	0.00	H
ATOM	2710	HE2	PHE	177	-3.018	-4.661	-12.981	1.00	0.00	H
ATOM	2711	HZ	PHE	177	-4.705	-6.311	-12.202	1.00	0.00	H
ATOM	2712	N	SER	178	2.559	-7.206	-16.011	1.00	0.00	N
ATOM	2713	CA	SER	178	4.030	-7.140	-16.056	1.00	0.00	C
ATOM	2714	C	SER	178	4.579	-5.722	-15.796	1.00	0.00	C
ATOM	2715	O	SER	178	4.178	-4.747	-16.436	1.00	0.00	O
ATOM	2716	CB	SER	178	4.586	-7.733	-17.364	1.00	0.00	C
ATOM	2717	OG	SER	178	4.254	-6.982	-18.520	1.00	0.00	O
ATOM	2718	H	SER	178	2.034	-6.385	-16.306	1.00	0.00	H
ATOM	2719	HA	SER	178	4.409	-7.774	-15.254	1.00	0.00	H
ATOM	2720	HB2	SER	178	5.674	-7.787	-17.285	1.00	0.00	H
ATOM	2721	HB3	SER	178	4.203	-8.749	-17.480	1.00	0.00	H
ATOM	2722	HG	SER	178	4.694	-7.371	-19.282	1.00	0.00	H
ATOM	2723	N	GLY	179	5.517	-5.598	-14.849	1.00	0.00	N
ATOM	2724	CA	GLY	179	6.211	-4.344	-14.534	1.00	0.00	C
ATOM	2725	C	GLY	179	7.453	-4.201	-15.403	1.00	0.00	C
ATOM	2726	O	GLY	179	8.446	-4.898	-15.205	1.00	0.00	O
ATOM	2727	H	GLY	179	5.781	-6.418	-14.321	1.00	0.00	H
ATOM	2728	HA2	GLY	179	5.553	-3.495	-14.715	1.00	0.00	H
ATOM	2729	HA3	GLY	179	6.528	-4.342	-13.493	1.00	0.00	H
ATOM	2730	N	SER	180	7.405	-3.315	-16.393	1.00	0.00	N
ATOM	2731	CA	SER	180	8.434	-3.243	-17.438	1.00	0.00	C
ATOM	2732	C	SER	180	9.261	-1.959	-17.299	1.00	0.00	C

ATOM	2733	O	SER	180	8.742	-0.866	-17.542	1.00	0.00	O
ATOM	2734	CB	SER	180	7.771	-3.344	-18.821	1.00	0.00	C
ATOM	2735	OG	SER	180	6.898	-4.461	-18.874	1.00	0.00	O
ATOM	2736	H	SER	180	6.548	-2.781	-16.519	1.00	0.00	H
ATOM	2737	HA	SER	180	9.116	-4.091	-17.363	1.00	0.00	H
ATOM	2738	HB2	SER	180	7.191	-2.448	-19.024	1.00	0.00	H
ATOM	2739	HB3	SER	180	8.541	-3.444	-19.589	1.00	0.00	H
ATOM	2740	HG	SER	180	6.192	-4.316	-18.232	1.00	0.00	H
ATOM	2741	N	GLY	181	10.526	-2.068	-16.871	1.00	0.00	N
ATOM	2742	CA	GLY	181	11.429	-0.927	-16.678	1.00	0.00	C
ATOM	2743	C	GLY	181	12.765	-1.280	-16.028	1.00	0.00	C
ATOM	2744	O	GLY	181	13.000	-2.435	-15.682	1.00	0.00	O
ATOM	2745	H	GLY	181	10.890	-2.975	-16.609	1.00	0.00	H
ATOM	2746	HA2	GLY	181	11.609	-0.436	-17.634	1.00	0.00	H
ATOM	2747	HA3	GLY	181	10.940	-0.200	-16.042	1.00	0.00	H
ATOM	2748	N	SER	182	13.620	-0.275	-15.842	1.00	0.00	N
ATOM	2749	CA	SER	182	14.961	-0.387	-15.245	1.00	0.00	C
ATOM	2750	C	SER	182	15.606	1.004	-15.183	1.00	0.00	C
ATOM	2751	O	SER	182	15.844	1.610	-16.227	1.00	0.00	O
ATOM	2752	CB	SER	182	15.866	-1.365	-16.018	1.00	0.00	C
ATOM	2753	OG	SER	182	17.027	-1.671	-15.264	1.00	0.00	O
ATOM	2754	H	SER	182	13.297	0.665	-16.061	1.00	0.00	H
ATOM	2755	HA	SER	182	14.865	-0.780	-14.234	1.00	0.00	H
ATOM	2756	HB2	SER	182	15.340	-2.298	-16.213	1.00	0.00	H
ATOM	2757	HB3	SER	182	16.151	-0.924	-16.975	1.00	0.00	H
ATOM	2758	HG	SER	182	17.456	-2.437	-15.659	1.00	0.00	H
ATOM	2759	N	GLY	183	15.852	1.524	-13.975	1.00	0.00	N
ATOM	2760	CA	GLY	183	16.373	2.879	-13.750	1.00	0.00	C
ATOM	2761	C	GLY	183	15.313	3.968	-13.956	1.00	0.00	C
ATOM	2762	O	GLY	183	15.078	4.396	-15.084	1.00	0.00	O
ATOM	2763	H	GLY	183	15.717	0.927	-13.170	1.00	0.00	H
ATOM	2764	HA2	GLY	183	16.775	2.944	-12.740	1.00	0.00	H
ATOM	2765	HA3	GLY	183	17.176	3.074	-14.463	1.00	0.00	H
ATOM	2766	N	THR	184	14.698	4.452	-12.866	1.00	0.00	N
ATOM	2767	CA	THR	184	13.709	5.561	-12.814	1.00	0.00	C
ATOM	2768	C	THR	184	12.356	5.199	-13.422	1.00	0.00	C
ATOM	2769	O	THR	184	11.350	5.373	-12.742	1.00	0.00	O
ATOM	2770	CB	THR	184	14.274	6.874	-13.407	1.00	0.00	C
ATOM	2771	CG2	THR	184	13.233	7.890	-13.895	1.00	0.00	C
ATOM	2772	OG1	THR	184	15.026	7.497	-12.396	1.00	0.00	O
ATOM	2773	H	THR	184	14.956	4.033	-11.986	1.00	0.00	H
ATOM	2774	HA	THR	184	13.496	5.762	-11.767	1.00	0.00	H
ATOM	2775	HB	THR	184	14.937	6.664	-14.244	1.00	0.00	H
ATOM	2776	HG1	THR	184	14.403	7.957	-11.802	1.00	0.00	H
ATOM	2777	HG21	THR	184	12.444	8.020	-13.157	1.00	0.00	H
ATOM	2778	HG22	THR	184	13.716	8.850	-14.076	1.00	0.00	H
ATOM	2779	HG23	THR	184	12.791	7.547	-14.829	1.00	0.00	H
ATOM	2780	N	SER	185	12.303	4.743	-14.672	1.00	0.00	N
ATOM	2781	CA	SER	185	11.051	4.490	-15.403	1.00	0.00	C
ATOM	2782	C	SER	185	10.644	3.013	-15.358	1.00	0.00	C
ATOM	2783	O	SER	185	11.433	2.129	-15.705	1.00	0.00	O
ATOM	2784	CB	SER	185	11.173	4.938	-16.865	1.00	0.00	C
ATOM	2785	OG	SER	185	9.906	4.856	-17.502	1.00	0.00	O
ATOM	2786	H	SER	185	13.181	4.535	-15.138	1.00	0.00	H
ATOM	2787	HA	SER	185	10.242	5.071	-14.956	1.00	0.00	H
ATOM	2788	HB2	SER	185	11.528	5.969	-16.898	1.00	0.00	H
ATOM	2789	HB3	SER	185	11.890	4.298	-17.381	1.00	0.00	H

ATOM	2790	HG	SER	185	10.018	4.973	-18.450	1.00	0.00	H
ATOM	2791	N	TYR	186	9.389	2.768	-14.959	1.00	0.00	N
ATOM	2792	CA	TYR	186	8.774	1.452	-14.785	1.00	0.00	C
ATOM	2793	C	TYR	186	7.283	1.476	-15.154	1.00	0.00	C
ATOM	2794	O	TYR	186	6.515	2.279	-14.624	1.00	0.00	O
ATOM	2795	CB	TYR	186	8.947	1.011	-13.323	1.00	0.00	C
ATOM	2796	CG	TYR	186	10.374	0.687	-12.939	1.00	0.00	C
ATOM	2797	CD1	TYR	186	11.224	1.677	-12.400	1.00	0.00	C
ATOM	2798	CD2	TYR	186	10.844	-0.626	-13.110	1.00	0.00	C
ATOM	2799	CE1	TYR	186	12.535	1.351	-12.002	1.00	0.00	C
ATOM	2800	CE2	TYR	186	12.157	-0.945	-12.732	1.00	0.00	C
ATOM	2801	CZ	TYR	186	12.996	0.027	-12.166	1.00	0.00	C
ATOM	2802	OH	TYR	186	14.244	-0.352	-11.793	1.00	0.00	O
ATOM	2803	H	TYR	186	8.819	3.566	-14.694	1.00	0.00	H
ATOM	2804	HA	TYR	186	9.266	0.732	-15.433	1.00	0.00	H
ATOM	2805	HB2	TYR	186	8.566	1.793	-12.665	1.00	0.00	H
ATOM	2806	HB3	TYR	186	8.341	0.121	-13.158	1.00	0.00	H
ATOM	2807	HD1	TYR	186	10.862	2.691	-12.287	1.00	0.00	H
ATOM	2808	HD2	TYR	186	10.206	-1.388	-13.535	1.00	0.00	H
ATOM	2809	HE1	TYR	186	13.175	2.106	-11.573	1.00	0.00	H
ATOM	2810	HE2	TYR	186	12.540	-1.939	-12.876	1.00	0.00	H
ATOM	2811	HH	TYR	186	14.762	0.327	-11.350	1.00	0.00	H
ATOM	2812	N	SER	187	6.850	0.582	-16.038	1.00	0.00	N
ATOM	2813	CA	SER	187	5.492	0.578	-16.602	1.00	0.00	C
ATOM	2814	C	SER	187	4.704	-0.699	-16.248	1.00	0.00	C
ATOM	2815	O	SER	187	5.040	-1.795	-16.696	1.00	0.00	O
ATOM	2816	CB	SER	187	5.597	0.808	-18.120	1.00	0.00	C
ATOM	2817	OG	SER	187	6.389	-0.158	-18.789	1.00	0.00	O
ATOM	2818	H	SER	187	7.532	-0.045	-16.453	1.00	0.00	H
ATOM	2819	HA	SER	187	4.918	1.417	-16.216	1.00	0.00	H
ATOM	2820	HB2	SER	187	4.599	0.808	-18.544	1.00	0.00	H
ATOM	2821	HB3	SER	187	6.033	1.791	-18.292	1.00	0.00	H
ATOM	2822	HG	SER	187	7.282	-0.182	-18.402	1.00	0.00	H
ATOM	2823	N	LEU	188	3.638	-0.575	-15.442	1.00	0.00	N
ATOM	2824	CA	LEU	188	2.752	-1.682	-15.067	1.00	0.00	C
ATOM	2825	C	LEU	188	1.758	-1.938	-16.202	1.00	0.00	C
ATOM	2826	O	LEU	188	0.767	-1.224	-16.383	1.00	0.00	O
ATOM	2827	CB	LEU	188	2.090	-1.354	-13.712	1.00	0.00	C
ATOM	2828	CG	LEU	188	1.221	-2.426	-13.016	1.00	0.00	C
ATOM	2829	CD1	LEU	188	-0.152	-2.642	-13.671	1.00	0.00	C
ATOM	2830	CD2	LEU	188	1.958	-3.763	-12.876	1.00	0.00	C
ATOM	2831	H	LEU	188	3.331	0.360	-15.183	1.00	0.00	H
ATOM	2832	HA	LEU	188	3.354	-2.581	-14.940	1.00	0.00	H
ATOM	2833	HB2	LEU	188	2.896	-1.126	-13.024	1.00	0.00	H
ATOM	2834	HB3	LEU	188	1.492	-0.453	-13.826	1.00	0.00	H
ATOM	2835	HG	LEU	188	1.027	-2.057	-12.008	1.00	0.00	H
ATOM	2836	HD11	LEU	188	-0.050	-3.177	-14.613	1.00	0.00	H
ATOM	2837	HD12	LEU	188	-0.785	-3.220	-13.000	1.00	0.00	H
ATOM	2838	HD13	LEU	188	-0.631	-1.681	-13.848	1.00	0.00	H
ATOM	2839	HD21	LEU	188	2.911	-3.602	-12.371	1.00	0.00	H
ATOM	2840	HD22	LEU	188	1.361	-4.455	-12.284	1.00	0.00	H
ATOM	2841	HD23	LEU	188	2.139	-4.209	-13.855	1.00	0.00	H
ATOM	2842	N	THR	189	2.043	-2.970	-16.993	1.00	0.00	N
ATOM	2843	CA	THR	189	1.230	-3.398	-18.134	1.00	0.00	C
ATOM	2844	C	THR	189	0.212	-4.429	-17.681	1.00	0.00	C
ATOM	2845	O	THR	189	0.572	-5.372	-16.986	1.00	0.00	O
ATOM	2846	CB	THR	189	2.151	-3.942	-19.223	1.00	0.00	C

ATOM	2847	CG2	THR	189	1.388	-4.557	-20.390	1.00	0.00	C
ATOM	2848	OG1	THR	189	2.863	-2.839	-19.738	1.00	0.00	O
ATOM	2849	H	THR	189	2.877	-3.510	-16.778	1.00	0.00	H
ATOM	2850	HA	THR	189	0.688	-2.546	-18.534	1.00	0.00	H
ATOM	2851	HB	THR	189	2.842	-4.683	-18.811	1.00	0.00	H
ATOM	2852	HG1	THR	189	3.584	-2.646	-19.120	1.00	0.00	H
ATOM	2853	HG21	THR	189	0.616	-3.861	-20.712	1.00	0.00	H
ATOM	2854	HG22	THR	189	2.080	-4.754	-21.209	1.00	0.00	H
ATOM	2855	HG23	THR	189	0.931	-5.498	-20.080	1.00	0.00	H
ATOM	2856	N	ILE	190	-1.043	-4.281	-18.114	1.00	0.00	N
ATOM	2857	CA	ILE	190	-2.111	-5.289	-18.001	1.00	0.00	C
ATOM	2858	C	ILE	190	-2.537	-5.728	-19.411	1.00	0.00	C
ATOM	2859	O	ILE	190	-3.029	-4.916	-20.208	1.00	0.00	O
ATOM	2860	CB	ILE	190	-3.350	-4.794	-17.214	1.00	0.00	C
ATOM	2861	CG1	ILE	190	-3.014	-3.839	-16.047	1.00	0.00	C
ATOM	2862	CG2	ILE	190	-4.131	-6.028	-16.730	1.00	0.00	C
ATOM	2863	CD1	ILE	190	-4.241	-3.333	-15.277	1.00	0.00	C
ATOM	2864	H	ILE	190	-1.247	-3.459	-18.674	1.00	0.00	H
ATOM	2865	HA	ILE	190	-1.709	-6.146	-17.466	1.00	0.00	H
ATOM	2866	HB	ILE	190	-4.000	-4.262	-17.902	1.00	0.00	H
ATOM	2867	HG12	ILE	190	-2.338	-4.336	-15.356	1.00	0.00	H
ATOM	2868	HG13	ILE	190	-2.503	-2.960	-16.440	1.00	0.00	H
ATOM	2869	HG21	ILE	190	-3.572	-6.533	-15.942	1.00	0.00	H
ATOM	2870	HG22	ILE	190	-5.106	-5.731	-16.342	1.00	0.00	H
ATOM	2871	HG23	ILE	190	-4.302	-6.720	-17.555	1.00	0.00	H
ATOM	2872	HD11	ILE	190	-4.723	-4.148	-14.736	1.00	0.00	H
ATOM	2873	HD12	ILE	190	-3.924	-2.579	-14.556	1.00	0.00	H
ATOM	2874	HD13	ILE	190	-4.955	-2.884	-15.969	1.00	0.00	H
ATOM	2875	N	SER	191	-2.313	-7.003	-19.735	1.00	0.00	N
ATOM	2876	CA	SER	191	-2.427	-7.551	-21.093	1.00	0.00	C
ATOM	2877	C	SER	191	-3.845	-7.460	-21.670	1.00	0.00	C
ATOM	2878	O	SER	191	-3.992	-6.987	-22.798	1.00	0.00	O
ATOM	2879	CB	SER	191	-1.893	-8.994	-21.134	1.00	0.00	C
ATOM	2880	OG	SER	191	-2.638	-9.867	-20.302	1.00	0.00	O
ATOM	2881	H	SER	191	-1.915	-7.611	-19.022	1.00	0.00	H
ATOM	2882	HA	SER	191	-1.798	-6.954	-21.747	1.00	0.00	H
ATOM	2883	HB2	SER	191	-1.934	-9.357	-22.162	1.00	0.00	H
ATOM	2884	HB3	SER	191	-0.851	-8.997	-20.808	1.00	0.00	H
ATOM	2885	HG	SER	191	-2.213	-10.735	-20.286	1.00	0.00	H
ATOM	2886	N	ARG	192	-4.857	-7.841	-20.883	1.00	0.00	N
ATOM	2887	CA	ARG	192	-6.273	-7.522	-21.080	1.00	0.00	C
ATOM	2888	C	ARG	192	-6.901	-7.314	-19.702	1.00	0.00	C
ATOM	2889	O	ARG	192	-6.735	-8.177	-18.836	1.00	0.00	O
ATOM	2890	CB	ARG	192	-7.029	-8.649	-21.799	1.00	0.00	C
ATOM	2891	CG	ARG	192	-6.621	-8.819	-23.266	1.00	0.00	C
ATOM	2892	CD	ARG	192	-7.640	-9.696	-23.999	1.00	0.00	C
ATOM	2893	NE	ARG	192	-7.215	-9.957	-25.386	1.00	0.00	N
ATOM	2894	CZ	ARG	192	-6.696	-11.080	-25.871	1.00	0.00	C
ATOM	2895	NH1	ARG	192	-6.536	-12.153	-25.122	1.00	0.00	N
ATOM	2896	NH2	ARG	192	-6.322	-11.131	-27.132	1.00	0.00	N
ATOM	2897	H	ARG	192	-4.616	-8.246	-19.987	1.00	0.00	H
ATOM	2898	HA	ARG	192	-6.365	-6.603	-21.660	1.00	0.00	H
ATOM	2899	HB2	ARG	192	-6.878	-9.592	-21.271	1.00	0.00	H
ATOM	2900	HB3	ARG	192	-8.093	-8.411	-21.761	1.00	0.00	H
ATOM	2901	HG2	ARG	192	-6.586	-7.843	-23.754	1.00	0.00	H
ATOM	2902	HG3	ARG	192	-5.634	-9.281	-23.317	1.00	0.00	H
ATOM	2903	HD2	ARG	192	-7.777	-10.629	-23.448	1.00	0.00	H

ATOM	2904	HD3	ARG	192	-8.600	-9.177	-24.015	1.00	0.00	H
ATOM	2905	HE	ARG	192	-7.330	-9.182	-26.022	1.00	0.00	H
ATOM	2906	HH11	ARG	192	-6.826	-12.134	-24.160	1.00	0.00	H
ATOM	2907	HH12	ARG	192	-6.153	-12.998	-25.510	1.00	0.00	H
ATOM	2908	HH21	ARG	192	-6.407	-10.311	-27.713	1.00	0.00	H
ATOM	2909	HH22	ARG	192	-5.929	-11.972	-27.518	1.00	0.00	H
ATOM	2910	N	MET	193	-7.560	-6.175	-19.490	1.00	0.00	N
ATOM	2911	CA	MET	193	-8.233	-5.844	-18.227	1.00	0.00	C
ATOM	2912	C	MET	193	-9.475	-6.723	-18.003	1.00	0.00	C
ATOM	2913	O	MET	193	-10.298	-6.875	-18.906	1.00	0.00	O
ATOM	2914	CB	MET	193	-8.595	-4.350	-18.227	1.00	0.00	C
ATOM	2915	CG	MET	193	-9.225	-3.912	-16.900	1.00	0.00	C
ATOM	2916	SD	MET	193	-9.705	-2.171	-16.870	1.00	0.00	S
ATOM	2917	CE	MET	193	-10.758	-2.196	-15.408	1.00	0.00	C
ATOM	2918	H	MET	193	-7.613	-5.500	-20.250	1.00	0.00	H
ATOM	2919	HA	MET	193	-7.540	-6.030	-17.401	1.00	0.00	H
ATOM	2920	HB2	MET	193	-7.694	-3.760	-18.397	1.00	0.00	H
ATOM	2921	HB3	MET	193	-9.299	-4.147	-19.036	1.00	0.00	H
ATOM	2922	HG2	MET	193	-10.120	-4.506	-16.719	1.00	0.00	H
ATOM	2923	HG3	MET	193	-8.521	-4.096	-16.091	1.00	0.00	H
ATOM	2924	HE1	MET	193	-10.177	-2.520	-14.543	1.00	0.00	H
ATOM	2925	HE2	MET	193	-11.151	-1.195	-15.235	1.00	0.00	H
ATOM	2926	HE3	MET	193	-11.587	-2.888	-15.572	1.00	0.00	H
ATOM	2927	N	GLU	194	-9.605	-7.243	-16.781	1.00	0.00	N
ATOM	2928	CA	GLU	194	-10.760	-7.976	-16.265	1.00	0.00	C
ATOM	2929	C	GLU	194	-11.418	-7.243	-15.088	1.00	0.00	C
ATOM	2930	O	GLU	194	-10.840	-6.343	-14.475	1.00	0.00	O
ATOM	2931	CB	GLU	194	-10.311	-9.379	-15.815	1.00	0.00	C
ATOM	2932	CG	GLU	194	-10.339	-10.392	-16.967	1.00	0.00	C
ATOM	2933	CD	GLU	194	-11.755	-10.608	-17.517	1.00	0.00	C
ATOM	2934	OE1	GLU	194	-11.847	-11.094	-18.666	1.00	0.00	O
ATOM	2935	OE2	GLU	194	-12.721	-10.274	-16.788	1.00	0.00	O
ATOM	2936	H	GLU	194	-8.853	-7.070	-16.114	1.00	0.00	H
ATOM	2937	HA	GLU	194	-11.515	-8.066	-17.047	1.00	0.00	H
ATOM	2938	HB2	GLU	194	-9.307	-9.321	-15.401	1.00	0.00	H
ATOM	2939	HB3	GLU	194	-10.957	-9.750	-15.017	1.00	0.00	H
ATOM	2940	HG2	GLU	194	-9.681	-10.044	-17.765	1.00	0.00	H
ATOM	2941	HG3	GLU	194	-9.962	-11.348	-16.604	1.00	0.00	H
ATOM	2942	N	ALA	195	-12.639	-7.648	-14.724	1.00	0.00	N
ATOM	2943	CA	ALA	195	-13.429	-6.960	-13.693	1.00	0.00	C
ATOM	2944	C	ALA	195	-12.832	-7.037	-12.268	1.00	0.00	C
ATOM	2945	O	ALA	195	-13.208	-6.251	-11.394	1.00	0.00	O
ATOM	2946	CB	ALA	195	-14.869	-7.483	-13.751	1.00	0.00	C
ATOM	2947	H	ALA	195	-13.055	-8.417	-15.253	1.00	0.00	H
ATOM	2948	HA	ALA	195	-13.446	-5.899	-13.947	1.00	0.00	H
ATOM	2949	HB1	ALA	195	-14.892	-8.550	-13.523	1.00	0.00	H
ATOM	2950	HB2	ALA	195	-15.483	-6.945	-13.027	1.00	0.00	H
ATOM	2951	HB3	ALA	195	-15.277	-7.320	-14.748	1.00	0.00	H
ATOM	2952	N	GLU	196	-11.876	-7.939	-12.018	1.00	0.00	N
ATOM	2953	CA	GLU	196	-11.114	-7.941	-10.768	1.00	0.00	C
ATOM	2954	C	GLU	196	-10.023	-6.847	-10.709	1.00	0.00	C
ATOM	2955	O	GLU	196	-9.512	-6.590	-9.623	1.00	0.00	O
ATOM	2956	CB	GLU	196	-10.534	-9.331	-10.462	1.00	0.00	C
ATOM	2957	CG	GLU	196	-9.412	-9.731	-11.422	1.00	0.00	C
ATOM	2958	CD	GLU	196	-8.560	-10.880	-10.896	1.00	0.00	C
ATOM	2959	OE1	GLU	196	-8.085	-10.794	-9.737	1.00	0.00	O
ATOM	2960	OE2	GLU	196	-8.278	-11.776	-11.728	1.00	0.00	O

ATOM	2961	H	GLU	196	-11.584	-8.539	-12.776	1.00	0.00	H
ATOM	2962	HA	GLU	196	-11.818	-7.730	-9.965	1.00	0.00	H
ATOM	2963	HB2	GLU	196	-10.152	-9.310	-9.440	1.00	0.00	H
ATOM	2964	HB3	GLU	196	-11.329	-10.076	-10.505	1.00	0.00	H
ATOM	2965	HG2	GLU	196	-9.854	-10.000	-12.383	1.00	0.00	H
ATOM	2966	HG3	GLU	196	-8.742	-8.889	-11.584	1.00	0.00	H
ATOM	2967	N	ASP	197	-9.681	-6.183	-11.821	1.00	0.00	N
ATOM	2968	CA	ASP	197	-8.526	-5.275	-11.910	1.00	0.00	C
ATOM	2969	C	ASP	197	-8.843	-3.803	-11.587	1.00	0.00	C
ATOM	2970	O	ASP	197	-7.939	-3.062	-11.209	1.00	0.00	O
ATOM	2971	CB	ASP	197	-7.912	-5.343	-13.318	1.00	0.00	C
ATOM	2972	CG	ASP	197	-7.415	-6.728	-13.733	1.00	0.00	C
ATOM	2973	OD1	ASP	197	-6.897	-7.476	-12.875	1.00	0.00	O
ATOM	2974	OD2	ASP	197	-7.492	-7.041	-14.942	1.00	0.00	O
ATOM	2975	H	ASP	197	-10.134	-6.421	-12.702	1.00	0.00	H
ATOM	2976	HA	ASP	197	-7.772	-5.606	-11.200	1.00	0.00	H
ATOM	2977	HB2	ASP	197	-8.652	-4.989	-14.036	1.00	0.00	H
ATOM	2978	HB3	ASP	197	-7.063	-4.661	-13.367	1.00	0.00	H
ATOM	2979	N	ALA	198	-10.098	-3.361	-11.728	1.00	0.00	N
ATOM	2980	CA	ALA	198	-10.496	-1.974	-11.457	1.00	0.00	C
ATOM	2981	C	ALA	198	-10.248	-1.581	-9.984	1.00	0.00	C
ATOM	2982	O	ALA	198	-10.906	-2.099	-9.081	1.00	0.00	O
ATOM	2983	CB	ALA	198	-11.964	-1.792	-11.865	1.00	0.00	C
ATOM	2984	H	ALA	198	-10.782	-4.013	-12.089	1.00	0.00	H
ATOM	2985	HA	ALA	198	-9.888	-1.318	-12.083	1.00	0.00	H
ATOM	2986	HB1	ALA	198	-12.602	-2.456	-11.277	1.00	0.00	H
ATOM	2987	HB2	ALA	198	-12.257	-0.757	-11.689	1.00	0.00	H
ATOM	2988	HB3	ALA	198	-12.089	-2.017	-12.924	1.00	0.00	H
ATOM	2989	N	ALA	199	-9.278	-0.694	-9.732	1.00	0.00	N
ATOM	2990	CA	ALA	199	-8.616	-0.497	-8.439	1.00	0.00	C
ATOM	2991	C	ALA	199	-7.622	0.679	-8.489	1.00	0.00	C
ATOM	2992	O	ALA	199	-7.310	1.183	-9.571	1.00	0.00	O
ATOM	2993	CB	ALA	199	-7.881	-1.793	-8.065	1.00	0.00	C
ATOM	2994	H	ALA	199	-8.855	-0.225	-10.521	1.00	0.00	H
ATOM	2995	HA	ALA	199	-9.366	-0.273	-7.683	1.00	0.00	H
ATOM	2996	HB1	ALA	199	-7.126	-1.991	-8.828	1.00	0.00	H
ATOM	2997	HB2	ALA	199	-7.397	-1.689	-7.095	1.00	0.00	H
ATOM	2998	HB3	ALA	199	-8.568	-2.636	-8.036	1.00	0.00	H
ATOM	2999	N	THR	200	-7.090	1.096	-7.334	1.00	0.00	N
ATOM	3000	CA	THR	200	-6.020	2.094	-7.244	1.00	0.00	C
ATOM	3001	C	THR	200	-4.679	1.383	-7.185	1.00	0.00	C
ATOM	3002	O	THR	200	-4.430	0.559	-6.307	1.00	0.00	O
ATOM	3003	CB	THR	200	-6.222	3.016	-6.043	1.00	0.00	C
ATOM	3004	CG2	THR	200	-5.227	4.174	-6.052	1.00	0.00	C
ATOM	3005	OG1	THR	200	-7.496	3.610	-6.135	1.00	0.00	O
ATOM	3006	H	THR	200	-7.350	0.631	-6.471	1.00	0.00	H
ATOM	3007	HA	THR	200	-6.040	2.719	-8.129	1.00	0.00	H
ATOM	3008	HB	THR	200	-6.136	2.446	-5.115	1.00	0.00	H
ATOM	3009	HG1	THR	200	-7.590	4.171	-5.362	1.00	0.00	H
ATOM	3010	HG21	THR	200	-5.332	4.743	-6.975	1.00	0.00	H
ATOM	3011	HG22	THR	200	-5.417	4.834	-5.206	1.00	0.00	H
ATOM	3012	HG23	THR	200	-4.209	3.795	-5.972	1.00	0.00	H
ATOM	3013	N	TYR	201	-3.808	1.690	-8.139	1.00	0.00	N
ATOM	3014	CA	TYR	201	-2.492	1.069	-8.290	1.00	0.00	C
ATOM	3015	C	TYR	201	-1.393	1.930	-7.665	1.00	0.00	C
ATOM	3016	O	TYR	201	-0.987	2.958	-8.217	1.00	0.00	O
ATOM	3017	CB	TYR	201	-2.219	0.766	-9.768	1.00	0.00	C

ATOM	3018	CG	TYR	201	-3.022	-0.415	-10.271	1.00	0.00	C
ATOM	3019	CD1	TYR	201	-4.328	-0.227	-10.765	1.00	0.00	C
ATOM	3020	CD2	TYR	201	-2.482	-1.715	-10.184	1.00	0.00	C
ATOM	3021	CE1	TYR	201	-5.092	-1.334	-11.173	1.00	0.00	C
ATOM	3022	CE2	TYR	201	-3.240	-2.824	-10.604	1.00	0.00	C
ATOM	3023	CZ	TYR	201	-4.549	-2.635	-11.097	1.00	0.00	C
ATOM	3024	OH	TYR	201	-5.295	-3.712	-11.451	1.00	0.00	O
ATOM	3025	H	TYR	201	-4.105	2.348	-8.851	1.00	0.00	H
ATOM	3026	HA	TYR	201	-2.488	0.115	-7.765	1.00	0.00	H
ATOM	3027	HB2	TYR	201	-2.440	1.647	-10.373	1.00	0.00	H
ATOM	3028	HB3	TYR	201	-1.159	0.536	-9.889	1.00	0.00	H
ATOM	3029	HD1	TYR	201	-4.751	0.768	-10.807	1.00	0.00	H
ATOM	3030	HD2	TYR	201	-1.490	-1.858	-9.780	1.00	0.00	H
ATOM	3031	HE1	TYR	201	-6.097	-1.191	-11.536	1.00	0.00	H
ATOM	3032	HE2	TYR	201	-2.837	-3.822	-10.544	1.00	0.00	H
ATOM	3033	HH	TYR	201	-6.199	-3.445	-11.674	1.00	0.00	H
ATOM	3034	N	TYR	202	-0.904	1.490	-6.501	1.00	0.00	N
ATOM	3035	CA	TYR	202	0.202	2.105	-5.764	1.00	0.00	C
ATOM	3036	C	TYR	202	1.540	1.412	-6.029	1.00	0.00	C
ATOM	3037	O	TYR	202	1.611	0.199	-6.246	1.00	0.00	O
ATOM	3038	CB	TYR	202	-0.083	2.073	-4.259	1.00	0.00	C
ATOM	3039	CG	TYR	202	-1.122	3.079	-3.818	1.00	0.00	C
ATOM	3040	CD1	TYR	202	-0.751	4.425	-3.645	1.00	0.00	C
ATOM	3041	CD2	TYR	202	-2.449	2.678	-3.585	1.00	0.00	C
ATOM	3042	CE1	TYR	202	-1.712	5.380	-3.272	1.00	0.00	C
ATOM	3043	CE2	TYR	202	-3.412	3.625	-3.189	1.00	0.00	C
ATOM	3044	CZ	TYR	202	-3.051	4.983	-3.052	1.00	0.00	C
ATOM	3045	OH	TYR	202	-4.000	5.910	-2.757	1.00	0.00	O
ATOM	3046	H	TYR	202	-1.262	0.609	-6.155	1.00	0.00	H
ATOM	3047	HA	TYR	202	0.305	3.150	-6.071	1.00	0.00	H
ATOM	3048	HB2	TYR	202	-0.389	1.071	-3.962	1.00	0.00	H
ATOM	3049	HB3	TYR	202	0.840	2.301	-3.723	1.00	0.00	H
ATOM	3050	HD1	TYR	202	0.270	4.731	-3.826	1.00	0.00	H
ATOM	3051	HD2	TYR	202	-2.733	1.642	-3.708	1.00	0.00	H
ATOM	3052	HE1	TYR	202	-1.427	6.420	-3.193	1.00	0.00	H
ATOM	3053	HE2	TYR	202	-4.429	3.312	-3.010	1.00	0.00	H
ATOM	3054	HH	TYR	202	-3.667	6.802	-2.900	1.00	0.00	H
ATOM	3055	N	CYS	203	2.606	2.206	-5.969	1.00	0.00	N
ATOM	3056	CA	CYS	203	4.000	1.796	-6.123	1.00	0.00	C
ATOM	3057	C	CYS	203	4.835	2.142	-4.868	1.00	0.00	C
ATOM	3058	O	CYS	203	4.451	3.006	-4.079	1.00	0.00	O
ATOM	3059	CB	CYS	203	4.546	2.469	-7.393	1.00	0.00	C
ATOM	3060	SG	CYS	203	4.323	4.268	-7.264	1.00	0.00	S
ATOM	3061	H	CYS	203	2.457	3.195	-5.818	1.00	0.00	H
ATOM	3062	HA	CYS	203	4.046	0.715	-6.258	1.00	0.00	H
ATOM	3063	HB2	CYS	203	5.601	2.230	-7.503	1.00	0.00	H
ATOM	3064	HB3	CYS	203	4.014	2.099	-8.274	1.00	0.00	H
ATOM	3065	HG	CYS	203	5.034	4.638	-8.338	1.00	0.00	H
ATOM	3066	N	GLN	204	5.979	1.475	-4.695	1.00	0.00	N
ATOM	3067	CA	GLN	204	6.905	1.632	-3.562	1.00	0.00	C
ATOM	3068	C	GLN	204	8.351	1.466	-4.034	1.00	0.00	C
ATOM	3069	O	GLN	204	8.609	0.652	-4.922	1.00	0.00	O
ATOM	3070	CB	GLN	204	6.548	0.589	-2.475	1.00	0.00	C
ATOM	3071	CG	GLN	204	7.565	0.390	-1.325	1.00	0.00	C
ATOM	3072	CD	GLN	204	8.577	-0.751	-1.547	1.00	0.00	C
ATOM	3073	NE2	GLN	204	8.303	-1.955	-1.080	1.00	0.00	N
ATOM	3074	OE1	GLN	204	9.635	-0.595	-2.136	1.00	0.00	O

ATOM	3075	H	GLN	204	6.234	0.782	-5.389	1.00	0.00	H
ATOM	3076	HA	GLN	204	6.799	2.631	-3.142	1.00	0.00	H
ATOM	3077	HB2	GLN	204	5.613	0.925	-2.028	1.00	0.00	H
ATOM	3078	HB3	GLN	204	6.365	-0.378	-2.949	1.00	0.00	H
ATOM	3079	HG2	GLN	204	8.091	1.321	-1.115	1.00	0.00	H
ATOM	3080	HG3	GLN	204	7.002	0.145	-0.428	1.00	0.00	H
ATOM	3081	HE21	GLN	204	8.996	-2.666	-1.247	1.00	0.00	H
ATOM	3082	HE22	GLN	204	7.450	-2.157	-0.582	1.00	0.00	H
ATOM	3083	N	GLN	205	9.290	2.176	-3.399	1.00	0.00	N
ATOM	3084	CA	GLN	205	10.729	1.957	-3.532	1.00	0.00	C
ATOM	3085	C	GLN	205	11.445	1.978	-2.166	1.00	0.00	C
ATOM	3086	O	GLN	205	11.374	2.958	-1.418	1.00	0.00	O
ATOM	3087	CB	GLN	205	11.343	2.996	-4.488	1.00	0.00	C
ATOM	3088	CG	GLN	205	10.970	4.454	-4.147	1.00	0.00	C
ATOM	3089	CD	GLN	205	11.777	5.480	-4.921	1.00	0.00	C
ATOM	3090	NE2	GLN	205	11.209	6.614	-5.260	1.00	0.00	N
ATOM	3091	OE1	GLN	205	12.949	5.295	-5.192	1.00	0.00	O
ATOM	3092	H	GLN	205	8.996	2.844	-2.690	1.00	0.00	H
ATOM	3093	HA	GLN	205	10.883	0.967	-3.971	1.00	0.00	H
ATOM	3094	HB2	GLN	205	12.426	2.878	-4.461	1.00	0.00	H
ATOM	3095	HB3	GLN	205	11.006	2.786	-5.503	1.00	0.00	H
ATOM	3096	HG2	GLN	205	9.913	4.603	-4.348	1.00	0.00	H
ATOM	3097	HG3	GLN	205	11.137	4.660	-3.094	1.00	0.00	H
ATOM	3098	HE21	GLN	205	11.733	7.254	-5.835	1.00	0.00	H
ATOM	3099	HE22	GLN	205	10.236	6.799	-5.077	1.00	0.00	H
ATOM	3100	N	TRP	206	12.188	0.903	-1.868	1.00	0.00	N
ATOM	3101	CA	TRP	206	12.928	0.711	-0.612	1.00	0.00	C
ATOM	3102	C	TRP	206	14.467	0.681	-0.772	1.00	0.00	C
ATOM	3103	O	TRP	206	15.170	0.695	0.233	1.00	0.00	O
ATOM	3104	CB	TRP	206	12.434	-0.593	0.048	1.00	0.00	C
ATOM	3105	CG	TRP	206	13.171	-1.841	-0.343	1.00	0.00	C
ATOM	3106	CD1	TRP	206	14.009	-2.523	0.470	1.00	0.00	C
ATOM	3107	CD2	TRP	206	13.212	-2.540	-1.628	1.00	0.00	C
ATOM	3108	CE2	TRP	206	14.128	-3.630	-1.519	1.00	0.00	C
ATOM	3109	CE3	TRP	206	12.578	-2.362	-2.878	1.00	0.00	C
ATOM	3110	NE1	TRP	206	14.572	-3.579	-0.215	1.00	0.00	N
ATOM	3111	CZ2	TRP	206	14.410	-4.490	-2.590	1.00	0.00	C
ATOM	3112	CZ3	TRP	206	12.861	-3.213	-3.960	1.00	0.00	C
ATOM	3113	CH2	TRP	206	13.763	-4.282	-3.818	1.00	0.00	C
ATOM	3114	H	TRP	206	12.061	0.085	-2.448	1.00	0.00	H
ATOM	3115	HA	TRP	206	12.694	1.537	0.059	1.00	0.00	H
ATOM	3116	HB2	TRP	206	12.544	-0.482	1.124	1.00	0.00	H
ATOM	3117	HB3	TRP	206	11.370	-0.732	-0.140	1.00	0.00	H
ATOM	3118	HD1	TRP	206	14.225	-2.254	1.497	1.00	0.00	H
ATOM	3119	HE1	TRP	206	15.224	-4.230	0.198	1.00	0.00	H
ATOM	3120	HE3	TRP	206	11.842	-1.584	-2.998	1.00	0.00	H
ATOM	3121	HZ2	TRP	206	15.092	-5.320	-2.470	1.00	0.00	H
ATOM	3122	HZ3	TRP	206	12.354	-3.066	-4.900	1.00	0.00	H
ATOM	3123	HH2	TRP	206	13.942	-4.961	-4.644	1.00	0.00	H
ATOM	3124	N	SER	207	14.978	0.623	-2.011	1.00	0.00	N
ATOM	3125	CA	SER	207	16.407	0.460	-2.336	1.00	0.00	C
ATOM	3126	C	SER	207	17.236	1.734	-2.065	1.00	0.00	C
ATOM	3127	O	SER	207	17.642	1.978	-0.930	1.00	0.00	O
ATOM	3128	CB	SER	207	16.542	-0.047	-3.783	1.00	0.00	C
ATOM	3129	OG	SER	207	17.903	-0.268	-4.099	1.00	0.00	O
ATOM	3130	H	SER	207	14.317	0.600	-2.768	1.00	0.00	H
ATOM	3131	HA	SER	207	16.826	-0.310	-1.685	1.00	0.00	H



ATOM	3132	HB2	SER	207	15.994	-0.986	-3.891	1.00	0.00	H
ATOM	3133	HB3	SER	207	16.119	0.688	-4.468	1.00	0.00	H
ATOM	3134	HG	SER	207	18.057	-0.191	-5.056	1.00	0.00	H
ATOM	3135	N	ASN	208	17.479	2.584	-3.071	1.00	0.00	N
ATOM	3136	CA	ASN	208	18.211	3.858	-2.967	1.00	0.00	C
ATOM	3137	C	ASN	208	17.341	4.957	-2.298	1.00	0.00	C
ATOM	3138	O	ASN	208	17.298	6.111	-2.735	1.00	0.00	O
ATOM	3139	CB	ASN	208	18.690	4.221	-4.389	1.00	0.00	C
ATOM	3140	CG	ASN	208	19.868	5.192	-4.426	1.00	0.00	C
ATOM	3141	ND2	ASN	208	19.654	6.470	-4.187	1.00	0.00	N
ATOM	3142	OD1	ASN	208	20.995	4.810	-4.687	1.00	0.00	O
ATOM	3143	H	ASN	208	17.137	2.339	-3.985	1.00	0.00	H
ATOM	3144	HA	ASN	208	19.084	3.691	-2.338	1.00	0.00	H
ATOM	3145	HB2	ASN	208	19.015	3.309	-4.896	1.00	0.00	H
ATOM	3146	HB3	ASN	208	17.858	4.637	-4.957	1.00	0.00	H
ATOM	3147	HD21	ASN	208	20.449	7.086	-4.208	1.00	0.00	H
ATOM	3148	HD22	ASN	208	18.739	6.756	-3.863	1.00	0.00	H
ATOM	3149	N	SER	209	16.540	4.577	-1.296	1.00	0.00	N
ATOM	3150	CA	SER	209	15.230	5.200	-1.077	1.00	0.00	C
ATOM	3151	C	SER	209	14.760	5.084	0.390	1.00	0.00	C
ATOM	3152	O	SER	209	14.803	3.990	0.960	1.00	0.00	O
ATOM	3153	CB	SER	209	14.176	4.561	-2.009	1.00	0.00	C
ATOM	3154	OG	SER	209	14.651	4.428	-3.345	1.00	0.00	O
ATOM	3155	H	SER	209	16.680	3.634	-0.940	1.00	0.00	H
ATOM	3156	HA	SER	209	15.311	6.251	-1.348	1.00	0.00	H
ATOM	3157	HB2	SER	209	13.935	3.566	-1.634	1.00	0.00	H
ATOM	3158	HB3	SER	209	13.268	5.168	-1.996	1.00	0.00	H
ATOM	3159	HG	SER	209	14.006	4.775	-3.994	1.00	0.00	H
ATOM	3160	N	PRO	210	14.263	6.176	1.017	1.00	0.00	N
ATOM	3161	CA	PRO	210	13.735	6.198	2.381	1.00	0.00	C
ATOM	3162	C	PRO	210	12.314	5.603	2.437	1.00	0.00	C
ATOM	3163	O	PRO	210	11.404	6.236	2.956	1.00	0.00	O
ATOM	3164	CB	PRO	210	13.800	7.677	2.794	1.00	0.00	C
ATOM	3165	CG	PRO	210	13.444	8.380	1.490	1.00	0.00	C
ATOM	3166	CD	PRO	210	14.163	7.515	0.457	1.00	0.00	C
ATOM	3167	HA	PRO	210	14.382	5.631	3.044	1.00	0.00	H
ATOM	3168	HB2	PRO	210	13.116	7.934	3.604	1.00	0.00	H
ATOM	3169	HB3	PRO	210	14.821	7.937	3.079	1.00	0.00	H
ATOM	3170	HG2	PRO	210	12.365	8.340	1.326	1.00	0.00	H
ATOM	3171	HG3	PRO	210	13.792	9.408	1.475	1.00	0.00	H
ATOM	3172	HD2	PRO	210	13.582	7.479	-0.455	1.00	0.00	H
ATOM	3173	HD3	PRO	210	15.163	7.915	0.276	1.00	0.00	H
ATOM	3174	N	ARG	211	12.107	4.407	1.858	1.00	0.00	N
ATOM	3175	CA	ARG	211	10.827	3.681	1.786	1.00	0.00	C
ATOM	3176	C	ARG	211	9.669	4.561	1.269	1.00	0.00	C
ATOM	3177	O	ARG	211	8.583	4.618	1.846	1.00	0.00	O
ATOM	3178	CB	ARG	211	10.535	2.935	3.111	1.00	0.00	C
ATOM	3179	CG	ARG	211	11.218	1.553	3.177	1.00	0.00	C
ATOM	3180	CD	ARG	211	12.755	1.569	3.212	1.00	0.00	C
ATOM	3181	NE	ARG	211	13.245	2.174	4.455	1.00	0.00	N
ATOM	3182	CZ	ARG	211	14.273	2.989	4.632	1.00	0.00	C
ATOM	3183	NH1	ARG	211	15.117	3.308	3.670	1.00	0.00	N
ATOM	3184	NH2	ARG	211	14.446	3.491	5.831	1.00	0.00	N
ATOM	3185	H	ARG	211	12.909	3.945	1.446	1.00	0.00	H
ATOM	3186	HA	ARG	211	10.945	2.918	1.021	1.00	0.00	H
ATOM	3187	HB2	ARG	211	10.830	3.547	3.964	1.00	0.00	H
ATOM	3188	HB3	ARG	211	9.464	2.749	3.195	1.00	0.00	H

ATOM	3189	HG2	ARG	211	10.857	1.034	4.067	1.00	0.00	H
ATOM	3190	HG3	ARG	211	10.901	0.970	2.311	1.00	0.00	H
ATOM	3191	HD2	ARG	211	13.115	0.542	3.167	1.00	0.00	H
ATOM	3192	HD3	ARG	211	13.141	2.093	2.342	1.00	0.00	H
ATOM	3193	HE	ARG	211	12.719	1.956	5.309	1.00	0.00	H
ATOM	3194	HH11	ARG	211	14.939	3.007	2.713	1.00	0.00	H
ATOM	3195	HH12	ARG	211	15.900	3.910	3.836	1.00	0.00	H
ATOM	3196	HH21	ARG	211	13.790	3.163	6.555	1.00	0.00	H
ATOM	3197	HH22	ARG	211	15.169	4.146	6.041	1.00	0.00	H
ATOM	3198	N	THR	212	9.904	5.252	0.144	1.00	0.00	N
ATOM	3199	CA	THR	212	8.910	6.120	-0.517	1.00	0.00	C
ATOM	3200	C	THR	212	7.822	5.253	-1.146	1.00	0.00	C
ATOM	3201	O	THR	212	8.123	4.346	-1.922	1.00	0.00	O
ATOM	3202	CB	THR	212	9.556	7.048	-1.568	1.00	0.00	C
ATOM	3203	CG2	THR	212	8.534	7.903	-2.319	1.00	0.00	C
ATOM	3204	OG1	THR	212	10.448	7.951	-0.954	1.00	0.00	O
ATOM	3205	H	THR	212	10.760	5.037	-0.343	1.00	0.00	H
ATOM	3206	HA	THR	212	8.447	6.746	0.247	1.00	0.00	H
ATOM	3207	HB	THR	212	10.102	6.447	-2.293	1.00	0.00	H
ATOM	3208	HG1	THR	212	10.616	8.658	-1.598	1.00	0.00	H
ATOM	3209	HG21	THR	212	7.922	8.463	-1.612	1.00	0.00	H
ATOM	3210	HG22	THR	212	9.041	8.602	-2.984	1.00	0.00	H
ATOM	3211	HG23	THR	212	7.888	7.272	-2.926	1.00	0.00	H
ATOM	3212	N	PHE	213	6.563	5.587	-0.844	1.00	0.00	N
ATOM	3213	CA	PHE	213	5.347	5.141	-1.528	1.00	0.00	C
ATOM	3214	C	PHE	213	4.793	6.281	-2.408	1.00	0.00	C
ATOM	3215	O	PHE	213	5.148	7.448	-2.229	1.00	0.00	O
ATOM	3216	CB	PHE	213	4.307	4.679	-0.491	1.00	0.00	C
ATOM	3217	CG	PHE	213	4.496	3.271	0.052	1.00	0.00	C
ATOM	3218	CD1	PHE	213	5.548	2.981	0.942	1.00	0.00	C
ATOM	3219	CD2	PHE	213	3.575	2.259	-0.282	1.00	0.00	C
ATOM	3220	CE1	PHE	213	5.670	1.696	1.502	1.00	0.00	C
ATOM	3221	CE2	PHE	213	3.686	0.977	0.287	1.00	0.00	C
ATOM	3222	CZ	PHE	213	4.735	0.694	1.179	1.00	0.00	C
ATOM	3223	H	PHE	213	6.423	6.337	-0.186	1.00	0.00	H
ATOM	3224	HA	PHE	213	5.574	4.304	-2.186	1.00	0.00	H
ATOM	3225	HB2	PHE	213	4.298	5.378	0.346	1.00	0.00	H
ATOM	3226	HB3	PHE	213	3.320	4.731	-0.949	1.00	0.00	H
ATOM	3227	HD1	PHE	213	6.251	3.753	1.215	1.00	0.00	H
ATOM	3228	HD2	PHE	213	2.760	2.471	-0.957	1.00	0.00	H
ATOM	3229	HE1	PHE	213	6.466	1.484	2.203	1.00	0.00	H
ATOM	3230	HE2	PHE	213	2.948	0.222	0.059	1.00	0.00	H
ATOM	3231	HZ	PHE	213	4.810	-0.283	1.640	1.00	0.00	H
ATOM	3232	N	GLY	214	3.971	5.919	-3.401	1.00	0.00	N
ATOM	3233	CA	GLY	214	3.572	6.801	-4.509	1.00	0.00	C
ATOM	3234	C	GLY	214	2.117	7.272	-4.487	1.00	0.00	C
ATOM	3235	O	GLY	214	1.351	7.002	-3.563	1.00	0.00	O
ATOM	3236	H	GLY	214	3.758	4.932	-3.492	1.00	0.00	H
ATOM	3237	HA2	GLY	214	4.206	7.689	-4.528	1.00	0.00	H
ATOM	3238	HA3	GLY	214	3.718	6.267	-5.447	1.00	0.00	H
ATOM	3239	N	GLY	215	1.750	7.993	-5.551	1.00	0.00	N
ATOM	3240	CA	GLY	215	0.492	8.752	-5.647	1.00	0.00	C
ATOM	3241	C	GLY	215	-0.793	7.920	-5.709	1.00	0.00	C
ATOM	3242	O	GLY	215	-1.796	8.318	-5.126	1.00	0.00	O
ATOM	3243	H	GLY	215	2.449	8.151	-6.264	1.00	0.00	H
ATOM	3244	HA2	GLY	215	0.408	9.409	-4.781	1.00	0.00	H
ATOM	3245	HA3	GLY	215	0.520	9.359	-6.552	1.00	0.00	H

ATOM	3246	N	GLY	216	-0.781	6.766	-6.384	1.00	0.00	N
ATOM	3247	CA	GLY	216	-1.950	5.882	-6.542	1.00	0.00	C
ATOM	3248	C	GLY	216	-2.907	6.321	-7.654	1.00	0.00	C
ATOM	3249	O	GLY	216	-3.665	7.275	-7.492	1.00	0.00	O
ATOM	3250	H	GLY	216	0.096	6.479	-6.813	1.00	0.00	H
ATOM	3251	HA2	GLY	216	-1.613	4.869	-6.738	1.00	0.00	H
ATOM	3252	HA3	GLY	216	-2.540	5.887	-5.628	1.00	0.00	H
ATOM	3253	N	THR	217	-2.929	5.563	-8.756	1.00	0.00	N
ATOM	3254	CA	THR	217	-3.779	5.833	-9.930	1.00	0.00	C
ATOM	3255	C	THR	217	-4.970	4.887	-10.026	1.00	0.00	C
ATOM	3256	O	THR	217	-4.823	3.675	-9.890	1.00	0.00	O
ATOM	3257	CB	THR	217	-2.944	5.840	-11.208	1.00	0.00	C
ATOM	3258	CG2	THR	217	-2.176	4.553	-11.506	1.00	0.00	C
ATOM	3259	OG1	THR	217	-3.820	6.084	-12.275	1.00	0.00	O
ATOM	3260	H	THR	217	-2.318	4.759	-8.793	1.00	0.00	H
ATOM	3261	HA	THR	217	-4.191	6.838	-9.831	1.00	0.00	H
ATOM	3262	HB	THR	217	-2.224	6.660	-11.137	1.00	0.00	H
ATOM	3263	HG1	THR	217	-3.301	6.547	-12.952	1.00	0.00	H
ATOM	3264	HG21	THR	217	-2.869	3.731	-11.683	1.00	0.00	H
ATOM	3265	HG22	THR	217	-1.562	4.711	-12.394	1.00	0.00	H
ATOM	3266	HG23	THR	217	-1.524	4.296	-10.672	1.00	0.00	H
ATOM	3267	N	LYS	218	-6.155	5.447	-10.255	1.00	0.00	N
ATOM	3268	CA	LYS	218	-7.426	4.715	-10.203	1.00	0.00	C
ATOM	3269	C	LYS	218	-7.864	4.211	-11.593	1.00	0.00	C
ATOM	3270	O	LYS	218	-8.221	5.000	-12.471	1.00	0.00	O
ATOM	3271	CB	LYS	218	-8.474	5.625	-9.548	1.00	0.00	C
ATOM	3272	CG	LYS	218	-9.762	4.871	-9.187	1.00	0.00	C
ATOM	3273	CD	LYS	218	-10.841	5.870	-8.753	1.00	0.00	C
ATOM	3274	CE	LYS	218	-12.159	5.143	-8.458	1.00	0.00	C
ATOM	3275	NZ	LYS	218	-13.319	6.032	-8.703	1.00	0.00	N
ATOM	3276	H	LYS	218	-6.176	6.445	-10.437	1.00	0.00	H
ATOM	3277	HA	LYS	218	-7.303	3.842	-9.559	1.00	0.00	H
ATOM	3278	HB2	LYS	218	-8.055	6.058	-8.636	1.00	0.00	H
ATOM	3279	HB3	LYS	218	-8.709	6.439	-10.234	1.00	0.00	H
ATOM	3280	HG2	LYS	218	-10.125	4.315	-10.056	1.00	0.00	H
ATOM	3281	HG3	LYS	218	-9.559	4.178	-8.370	1.00	0.00	H
ATOM	3282	HD2	LYS	218	-10.516	6.437	-7.879	1.00	0.00	H
ATOM	3283	HD3	LYS	218	-10.988	6.572	-9.573	1.00	0.00	H
ATOM	3284	HE2	LYS	218	-12.239	4.301	-9.155	1.00	0.00	H
ATOM	3285	HE3	LYS	218	-12.157	4.754	-7.437	1.00	0.00	H
ATOM	3286	HZ1	LYS	218	-13.192	6.456	-9.629	1.00	0.00	H
ATOM	3287	HZ2	LYS	218	-14.153	5.478	-8.866	1.00	0.00	H
ATOM	3288	HZ3	LYS	218	-13.449	6.746	-8.010	1.00	0.00	H
ATOM	3289	N	LEU	219	-7.865	2.891	-11.790	1.00	0.00	N
ATOM	3290	CA	LEU	219	-8.383	2.227	-12.986	1.00	0.00	C
ATOM	3291	C	LEU	219	-9.886	1.977	-12.814	1.00	0.00	C
ATOM	3292	O	LEU	219	-10.295	1.432	-11.787	1.00	0.00	O
ATOM	3293	CB	LEU	219	-7.589	0.920	-13.158	1.00	0.00	C
ATOM	3294	CG	LEU	219	-7.865	0.142	-14.457	1.00	0.00	C
ATOM	3295	CD1	LEU	219	-7.442	0.941	-15.698	1.00	0.00	C
ATOM	3296	CD2	LEU	219	-7.093	-1.185	-14.408	1.00	0.00	C
ATOM	3297	H	LEU	219	-7.560	2.299	-11.028	1.00	0.00	H
ATOM	3298	HA	LEU	219	-8.235	2.872	-13.854	1.00	0.00	H
ATOM	3299	HB2	LEU	219	-6.523	1.150	-13.114	1.00	0.00	H
ATOM	3300	HB3	LEU	219	-7.819	0.271	-12.314	1.00	0.00	H
ATOM	3301	HG	LEU	219	-8.929	-0.080	-14.527	1.00	0.00	H
ATOM	3302	HD11	LEU	219	-6.407	1.268	-15.599	1.00	0.00	H

ATOM	3303	HD12	LEU	219	-7.532	0.317	-16.586	1.00	0.00	H
ATOM	3304	HD13	LEU	219	-8.091	1.806	-15.826	1.00	0.00	H
ATOM	3305	HD21	LEU	219	-7.460	-1.796	-13.584	1.00	0.00	H
ATOM	3306	HD22	LEU	219	-7.235	-1.738	-15.336	1.00	0.00	H
ATOM	3307	HD23	LEU	219	-6.027	-0.996	-14.271	1.00	0.00	H
ATOM	3308	N	GLU	220	-10.686	2.342	-13.819	1.00	0.00	N
ATOM	3309	CA	GLU	220	-12.151	2.254	-13.842	1.00	0.00	C
ATOM	3310	C	GLU	220	-12.635	1.762	-15.213	1.00	0.00	C
ATOM	3311	O	GLU	220	-11.990	1.992	-16.238	1.00	0.00	O
ATOM	3312	CB	GLU	220	-12.790	3.617	-13.516	1.00	0.00	C
ATOM	3313	CG	GLU	220	-12.247	4.179	-12.199	1.00	0.00	C
ATOM	3314	CD	GLU	220	-13.193	5.161	-11.531	1.00	0.00	C
ATOM	3315	OE1	GLU	220	-12.820	6.347	-11.374	1.00	0.00	O
ATOM	3316	OE2	GLU	220	-14.181	4.706	-10.914	1.00	0.00	O
ATOM	3317	H	GLU	220	-10.268	2.799	-14.622	1.00	0.00	H
ATOM	3318	HA	GLU	220	-12.478	1.538	-13.089	1.00	0.00	H
ATOM	3319	HB2	GLU	220	-12.599	4.328	-14.324	1.00	0.00	H
ATOM	3320	HB3	GLU	220	-13.868	3.476	-13.436	1.00	0.00	H
ATOM	3321	HG2	GLU	220	-12.101	3.357	-11.496	1.00	0.00	H
ATOM	3322	HG3	GLU	220	-11.284	4.659	-12.383	1.00	0.00	H
ATOM	3323	N	ILE	221	-13.761	1.046	-15.257	1.00	0.00	N
ATOM	3324	CA	ILE	221	-14.154	0.257	-16.433	1.00	0.00	C
ATOM	3325	C	ILE	221	-14.970	1.058	-17.468	1.00	0.00	C
ATOM	3326	O	ILE	221	-16.006	1.637	-17.160	1.00	0.00	O
ATOM	3327	CB	ILE	221	-14.799	-1.074	-15.985	1.00	0.00	C
ATOM	3328	CG1	ILE	221	-14.885	-2.058	-17.169	1.00	0.00	C
ATOM	3329	CG2	ILE	221	-16.158	-0.890	-15.283	1.00	0.00	C
ATOM	3330	CD1	ILE	221	-15.191	-3.498	-16.734	1.00	0.00	C
ATOM	3331	H	ILE	221	-14.344	0.993	-14.434	1.00	0.00	H
ATOM	3332	HA	ILE	221	-13.226	-0.016	-16.926	1.00	0.00	H
ATOM	3333	HB	ILE	221	-14.115	-1.517	-15.257	1.00	0.00	H
ATOM	3334	HG12	ILE	221	-15.652	-1.723	-17.869	1.00	0.00	H
ATOM	3335	HG13	ILE	221	-13.927	-2.071	-17.692	1.00	0.00	H
ATOM	3336	HG21	ILE	221	-16.919	-0.587	-16.004	1.00	0.00	H
ATOM	3337	HG22	ILE	221	-16.468	-1.823	-14.813	1.00	0.00	H
ATOM	3338	HG23	ILE	221	-16.087	-0.130	-14.506	1.00	0.00	H
ATOM	3339	HD11	ILE	221	-16.193	-3.564	-16.313	1.00	0.00	H
ATOM	3340	HD12	ILE	221	-15.133	-4.156	-17.598	1.00	0.00	H
ATOM	3341	HD13	ILE	221	-14.459	-3.826	-15.995	1.00	0.00	H
ATOM	3342	N	LYS	222	-14.510	1.096	-18.720	1.00	0.00	N
ATOM	3343	CA	LYS	222	-15.182	1.785	-19.827	1.00	0.00	C
ATOM	3344	C	LYS	222	-16.345	0.940	-20.386	1.00	0.00	C
ATOM	3345	O	LYS	222	-16.158	-0.231	-20.722	1.00	0.00	O
ATOM	3346	CB	LYS	222	-14.124	2.121	-20.896	1.00	0.00	C
ATOM	3347	CG	LYS	222	-14.574	3.057	-22.035	1.00	0.00	C
ATOM	3348	CD	LYS	222	-13.518	3.155	-23.157	1.00	0.00	C
ATOM	3349	CE	LYS	222	-12.179	3.747	-22.683	1.00	0.00	C
ATOM	3350	NZ	LYS	222	-10.989	3.129	-23.327	1.00	0.00	N
ATOM	3351	H	LYS	222	-13.645	0.602	-18.913	1.00	0.00	H
ATOM	3352	HA	LYS	222	-15.597	2.721	-19.441	1.00	0.00	H
ATOM	3353	HB2	LYS	222	-13.274	2.576	-20.391	1.00	0.00	H
ATOM	3354	HB3	LYS	222	-13.794	1.188	-21.345	1.00	0.00	H
ATOM	3355	HG2	LYS	222	-15.496	2.670	-22.471	1.00	0.00	H
ATOM	3356	HG3	LYS	222	-14.776	4.052	-21.632	1.00	0.00	H
ATOM	3357	HD2	LYS	222	-13.351	2.159	-23.561	1.00	0.00	H
ATOM	3358	HD3	LYS	222	-13.914	3.770	-23.966	1.00	0.00	H
ATOM	3359	HE2	LYS	222	-12.180	4.829	-22.838	1.00	0.00	H

ATOM	3360	HE3	LYS	222	-12.092	3.582	-21.611	1.00	0.00	H
ATOM	3361	HZ1	LYS	222	-10.909	3.309	-24.316	1.00	0.00	H
ATOM	3362	HZ2	LYS	222	-10.134	3.426	-22.878	1.00	0.00	H
ATOM	3363	HZ3	LYS	222	-10.989	2.111	-23.254	1.00	0.00	H
ATOM	3364	N	GLY	223	-17.516	1.570	-20.497	1.00	0.00	N
ATOM	3365	CA	GLY	223	-18.705	1.087	-21.205	1.00	0.00	C
ATOM	3366	C	GLY	223	-19.332	2.214	-22.024	1.00	0.00	C
ATOM	3367	O	GLY	223	-18.622	3.123	-22.459	1.00	0.00	O
ATOM	3368	H	GLY	223	-17.557	2.528	-20.181	1.00	0.00	H
ATOM	3369	HA2	GLY	223	-18.460	0.255	-21.867	1.00	0.00	H
ATOM	3370	HA3	GLY	223	-19.443	0.749	-20.477	1.00	0.00	H
ATOM	3371	N	ALA	224	-20.647	2.160	-22.199	1.00	0.00	N
ATOM	3372	CA	ALA	224	-21.504	3.155	-22.859	1.00	0.00	C
ATOM	3373	C	ALA	224	-22.981	2.944	-22.455	1.00	0.00	C
ATOM	3374	O	ALA	224	-23.778	3.883	-22.691	1.00	0.00	O
ATOM	3375	CB	ALA	224	-21.317	3.057	-24.378	1.00	0.00	C
ATOM	3376	OXT	ALA	224	-23.272	1.857	-21.908	1.00	0.00	O
ATOM	3377	H	ALA	224	-21.194	1.423	-21.769	1.00	0.00	H
ATOM	3378	HA	ALA	224	-21.232	4.156	-22.529	1.00	0.00	H
ATOM	3379	HB1	ALA	224	-21.616	2.064	-24.718	1.00	0.00	H
ATOM	3380	HB2	ALA	224	-21.947	3.803	-24.863	1.00	0.00	H
ATOM	3381	HB3	ALA	224	-20.276	3.239	-24.640	1.00	0.00	H
TER	3382		ALA	224						
ATOM	3383	O	OME	1	3.267	-15.600	0.185	1.00	0.00	O
ATOM	3384	CH3	OME	1	4.099	-16.764	-0.091	1.00	0.00	C
ATOM	3385	H1	OME	1	3.848	-17.568	0.587	1.00	0.00	H
ATOM	3386	H2	OME	1	3.933	-17.105	-1.104	1.00	0.00	H
ATOM	3387	H3	OME	1	5.145	-16.520	0.022	1.00	0.00	H
ATOM	3388	C1	6MA	2	3.399	-15.082	1.550	1.00	0.00	C
ATOM	3389	C2	6MA	2	2.231	-14.109	1.855	1.00	0.00	C
ATOM	3390	O2	6MA	2	2.170	-13.820	3.291	1.00	0.00	O
ATOM	3391	C3	6MA	2	2.402	-12.831	0.999	1.00	0.00	C
ATOM	3392	O3	6MA	2	1.289	-11.926	1.232	1.00	0.00	O
ATOM	3393	C4	6MA	2	3.765	-12.133	1.236	1.00	0.00	C
ATOM	3394	O4	6MA	2	3.914	-11.049	0.274	1.00	0.00	O
ATOM	3395	C5	6MA	2	4.944	-13.121	1.030	1.00	0.00	C
ATOM	3396	O5	6MA	2	4.699	-14.409	1.752	1.00	0.00	O
ATOM	3397	C6	6MA	2	6.281	-12.512	1.517	1.00	0.00	C
ATOM	3398	O6	6MA	2	7.442	-13.047	0.785	1.00	0.00	O
ATOM	3399	H1	6MA	2	3.328	-15.919	2.237	1.00	0.00	H
ATOM	3400	H2	6MA	2	1.296	-14.596	1.577	1.00	0.00	H
ATOM	3401	H3	6MA	2	2.352	-13.129	-0.051	1.00	0.00	H
ATOM	3402	H4	6MA	2	3.800	-11.725	2.249	1.00	0.00	H
ATOM	3403	H5	6MA	2	5.026	-13.342	-0.034	1.00	0.00	H
ATOM	3404	H2O	6MA	2	1.325	-13.333	3.455	1.00	0.00	H
ATOM	3405	H3O	6MA	2	1.278	-11.257	0.508	1.00	0.00	H
ATOM	3406	H61	6MA	2	6.405	-12.664	2.591	1.00	0.00	H
ATOM	3407	H62	6MA	2	6.274	-11.433	1.351	1.00	0.00	H
ATOM	3408	H4O	6MA	2	3.414	-10.279	0.614	1.00	0.00	H
ATOM	3409	P	PHO	3	8.065	-14.477	1.078	1.00	0.00	P
ATOM	3410	O4	PHO	3	9.566	-14.283	0.617	1.00	0.00	O
ATOM	3411	O5	PHO	3	7.454	-15.444	0.152	1.00	0.00	O
ATOM	3412	OP	PHO	3	8.039	-14.754	2.529	1.00	0.00	O
ATOM	3413	C1	2MA	4	10.399	-13.398	1.423	1.00	0.00	C
ATOM	3414	C2	2MA	4	11.372	-12.593	0.535	1.00	0.00	C
ATOM	3415	O2	2MA	4	12.015	-11.541	1.375	1.00	0.00	O
ATOM	3416	C3	2MA	4	12.448	-13.512	-0.074	1.00	0.00	C

ATOM	3417	O3	2MA	4	13.363	-12.729	-0.898	1.00	0.00	O
ATOM	3418	C4	2MA	4	13.234	-14.265	1.027	1.00	0.00	C
ATOM	3419	O4	2MA	4	14.162	-15.207	0.403	1.00	0.00	O
ATOM	3420	C5	2MA	4	12.276	-15.044	1.964	1.00	0.00	C
ATOM	3421	O5	2MA	4	11.141	-14.187	2.426	1.00	0.00	O
ATOM	3422	C6	2MA	4	13.012	-15.581	3.210	1.00	0.00	C
ATOM	3423	O6	2MA	4	12.300	-16.704	3.767	1.00	0.00	O
ATOM	3424	H1	2MA	4	9.772	-12.678	1.949	1.00	0.00	H
ATOM	3425	H2	2MA	4	10.809	-12.129	-0.275	1.00	0.00	H
ATOM	3426	H3	2MA	4	11.963	-14.240	-0.722	1.00	0.00	H
ATOM	3427	H4	2MA	4	13.810	-13.548	1.615	1.00	0.00	H
ATOM	3428	H5	2MA	4	11.859	-15.881	1.401	1.00	0.00	H
ATOM	3429	H3O	2MA	4	12.871	-12.394	-1.685	1.00	0.00	H
ATOM	3430	H61	2MA	4	13.109	-14.801	3.965	1.00	0.00	H
ATOM	3431	H62	2MA	4	14.015	-15.913	2.951	1.00	0.00	H
ATOM	3432	H4O	2MA	4	14.704	-14.705	-0.245	1.00	0.00	H
ATOM	3433	H6O	2MA	4	12.863	-17.089	4.470	1.00	0.00	H
ATOM	3434	C1	2MB	5	11.697	-10.148	1.030	1.00	0.00	C
ATOM	3435	C2	2MB	5	12.137	-9.225	2.192	1.00	0.00	C
ATOM	3436	O2	2MB	5	13.537	-9.553	2.595	1.00	0.00	O
ATOM	3437	C3	2MB	5	12.036	-7.736	1.805	1.00	0.00	C
ATOM	3438	O3	2MB	5	12.557	-6.922	2.904	1.00	0.00	O
ATOM	3439	C4	2MB	5	12.743	-7.426	0.453	1.00	0.00	C
ATOM	3440	O4	2MB	5	12.493	-6.043	0.076	1.00	0.00	O
ATOM	3441	C5	2MB	5	12.220	-8.365	-0.657	1.00	0.00	C
ATOM	3442	O5	2MB	5	12.409	-9.769	-0.203	1.00	0.00	O
ATOM	3443	C6	2MB	5	12.898	-8.166	-2.023	1.00	0.00	C
ATOM	3444	O6	2MB	5	12.161	-8.882	-3.029	1.00	0.00	O
ATOM	3445	H1	2MB	5	10.620	-10.054	0.876	1.00	0.00	H
ATOM	3446	H2	2MB	5	11.462	-9.399	3.033	1.00	0.00	H
ATOM	3447	H3	2MB	5	10.977	-7.502	1.698	1.00	0.00	H
ATOM	3448	H4	2MB	5	13.819	-7.566	0.562	1.00	0.00	H
ATOM	3449	H5	2MB	5	11.154	-8.188	-0.786	1.00	0.00	H
ATOM	3450	H3O	2MB	5	13.529	-7.040	2.951	1.00	0.00	H
ATOM	3451	H61	2MB	5	12.911	-7.112	-2.296	1.00	0.00	H
ATOM	3452	H62	2MB	5	13.924	-8.525	-1.994	1.00	0.00	H
ATOM	3453	H4O	2MB	5	11.523	-5.955	-0.077	1.00	0.00	H
ATOM	3454	H6O	2MB	5	12.558	-8.713	-3.911	1.00	0.00	H
ATOM	3455	C1	0MB	6	13.625	-10.264	3.881	1.00	0.00	C
ATOM	3456	C2	0MB	6	14.940	-11.072	3.954	1.00	0.00	C
ATOM	3457	O2	0MB	6	16.091	-10.174	3.876	1.00	0.00	O
ATOM	3458	C3	0MB	6	14.928	-11.872	5.274	1.00	0.00	C
ATOM	3459	O3	0MB	6	16.136	-12.680	5.388	1.00	0.00	O
ATOM	3460	C4	0MB	6	14.762	-10.951	6.513	1.00	0.00	C
ATOM	3461	O4	0MB	6	14.479	-11.771	7.689	1.00	0.00	O
ATOM	3462	C5	0MB	6	13.603	-9.927	6.373	1.00	0.00	C
ATOM	3463	O5	0MB	6	13.567	-9.315	5.015	1.00	0.00	O
ATOM	3464	C6	0MB	6	13.710	-8.801	7.416	1.00	0.00	C
ATOM	3465	O6	0MB	6	13.550	-9.345	8.745	1.00	0.00	O
ATOM	3466	H1	0MB	6	12.787	-10.957	3.949	1.00	0.00	H
ATOM	3467	H2	0MB	6	14.984	-11.771	3.120	1.00	0.00	H
ATOM	3468	H3	0MB	6	14.082	-12.559	5.235	1.00	0.00	H
ATOM	3469	H4	0MB	6	15.696	-10.414	6.678	1.00	0.00	H
ATOM	3470	H5	0MB	6	12.654	-10.439	6.525	1.00	0.00	H
ATOM	3471	H2O	0MB	6	16.050	-9.704	3.018	1.00	0.00	H
ATOM	3472	H3O	0MB	6	16.236	-13.261	4.605	1.00	0.00	H
ATOM	3473	H61	0MB	6	14.684	-8.318	7.343	1.00	0.00	H































