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- 0 PDBv2.3 atoms were found. Proceeding assuming PDBv3 formatted file.

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REMARK ANTIBODY STRUCTURE MODELLED USING ABODYBUILDER2

REMARK STRUCTURE REFINED USING OPENMM 8.0, 2025-01-23

ATOM	1	N	GLU	H	1	-18.169	2.111	-11.086	1.00	0.29	N
ATOM	2	H	GLU	H	1	-18.881	1.418	-11.321	1.00	0.29	H
ATOM	3	H2	GLU	H	1	-18.546	2.743	-10.399	1.00	0.29	H
ATOM	4	H3	GLU	H	1	-17.920	2.615	-11.923	1.00	0.29	H
ATOM	5	CA	GLU	H	1	-16.966	1.417	-10.564	1.00	0.29	C
ATOM	6	HA	GLU	H	1	-17.222	0.933	-9.620	1.00	0.29	H
ATOM	7	C	GLU	H	1	-15.889	2.449	-10.307	1.00	0.29	C
ATOM	8	CB	GLU	H	1	-16.452	0.323	-11.526	1.00	0.29	C
ATOM	9	HB2	GLU	H	1	-15.429	0.059	-11.259	1.00	0.29	H
ATOM	10	HB3	GLU	H	1	-16.439	0.733	-12.536	1.00	0.29	H
ATOM	11	O	GLU	H	1	-15.790	3.392	-11.083	1.00	0.29	O
ATOM	12	CG	GLU	H	1	-17.285	-0.975	-11.517	1.00	0.29	C
ATOM	13	HG2	GLU	H	1	-17.144	-1.518	-12.453	1.00	0.29	H
ATOM	14	HG3	GLU	H	1	-16.928	-1.607	-10.703	1.00	0.29	H
ATOM	15	CD	GLU	H	1	-18.757	-0.657	-11.285	1.00	0.29	C
ATOM	16	OE1	GLU	H	1	-19.087	-0.492	-10.094	1.00	0.29	O
ATOM	17	OE2	GLU	H	1	-19.380	-0.089	-12.205	1.00	0.29	O
ATOM	18	N	VAL	H	2	-15.141	2.316	-9.212	1.00	0.31	N
ATOM	19	H	VAL	H	2	-15.248	1.490	-8.640	1.00	0.31	H
ATOM	20	CA	VAL	H	2	-14.022	3.209	-8.875	1.00	0.31	C
ATOM	21	HA	VAL	H	2	-14.204	4.202	-9.286	1.00	0.31	H
ATOM	22	C	VAL	H	2	-12.736	2.677	-9.498	1.00	0.31	C
ATOM	23	CB	VAL	H	2	-13.878	3.351	-7.348	1.00	0.31	C
ATOM	24	HB	VAL	H	2	-13.842	2.357	-6.909	1.00	0.31	H
ATOM	25	O	VAL	H	2	-12.399	1.511	-9.306	1.00	0.31	O
ATOM	26	CG1	VAL	H	2	-12.609	4.110	-6.933	1.00	0.31	C
ATOM	27	HG11	VAL	H	2	-11.724	3.540	-7.213	1.00	0.31	H
ATOM	28	HG12	VAL	H	2	-12.590	4.231	-5.851	1.00	0.31	H
ATOM	29	HG13	VAL	H	2	-12.577	5.085	-7.418	1.00	0.31	H
ATOM	30	CG2	VAL	H	2	-15.097	4.078	-6.766	1.00	0.31	C
ATOM	31	HG21	VAL	H	2	-16.009	3.530	-6.999	1.00	0.31	H
ATOM	32	HG22	VAL	H	2	-15.173	5.084	-7.181	1.00	0.31	H
ATOM	33	HG23	VAL	H	2	-15.009	4.133	-5.682	1.00	0.31	H

ATOM	34	N	GLN	H	3	-11.992	3.540	-10.189	1.00	0.16		N
ATOM	35	H	GLN	H	3	-12.341	4.482	-10.333	1.00	0.16		H
ATOM	36	CA	GLN	H	3	-10.679	3.204	-10.738	1.00	0.16		C
ATOM	37	HA	GLN	H	3	-10.245	2.410	-10.126	1.00	0.16		H
ATOM	38	C	GLN	H	3	-9.734	4.400	-10.666	1.00	0.16		C
ATOM	39	CB	GLN	H	3	-10.812	2.657	-12.174	1.00	0.16		C
ATOM	40	HB2	GLN	H	3	-11.315	1.690	-12.123	1.00	0.16		H
ATOM	41	HB3	GLN	H	3	-11.434	3.324	-12.768	1.00	0.16		H
ATOM	42	O	GLN	H	3	-10.059	5.497	-11.126	1.00	0.16		O
ATOM	43	CG	GLN	H	3	-9.451	2.485	-12.889	1.00	0.16		C
ATOM	44	HG2	GLN	H	3	-8.790	1.885	-12.263	1.00	0.16		H
ATOM	45	HG3	GLN	H	3	-8.992	3.462	-13.034	1.00	0.16		H
ATOM	46	CD	GLN	H	3	-9.541	1.816	-14.260	1.00	0.16		C
ATOM	47	NE2	GLN	H	3	-8.461	1.766	-15.012	1.00	0.16		N
ATOM	48	HE21	GLN	H	3	-7.573	2.144	-14.719	1.00	0.16		H
ATOM	49	HE22	GLN	H	3	-8.565	1.319	-15.903	1.00	0.16		H
ATOM	50	OE1	GLN	H	3	-10.569	1.326	-14.692	1.00	0.16		O
ATOM	51	N	LEU	H	4	-8.533	4.160	-10.143	1.00	0.25		N
ATOM	52	H	LEU	H	4	-8.330	3.223	-9.824	1.00	0.25		H
ATOM	53	CA	LEU	H	4	-7.390	5.054	-10.284	1.00	0.25		C
ATOM	54	HA	LEU	H	4	-7.730	6.071	-10.480	1.00	0.25		H
ATOM	55	C	LEU	H	4	-6.555	4.591	-11.486	1.00	0.25		C
ATOM	56	CB	LEU	H	4	-6.575	5.050	-8.978	1.00	0.25		C
ATOM	57	HB2	LEU	H	4	-5.730	5.723	-9.108	1.00	0.25		H
ATOM	58	HB3	LEU	H	4	-6.187	4.046	-8.827	1.00	0.25		H
ATOM	59	O	LEU	H	4	-6.201	3.417	-11.570	1.00	0.25		O
ATOM	60	CG	LEU	H	4	-7.340	5.441	-7.698	1.00	0.25		C
ATOM	61	HG	LEU	H	4	-8.090	4.681	-7.479	1.00	0.25		H
ATOM	62	CD1	LEU	H	4	-6.381	5.517	-6.510	1.00	0.25		C
ATOM	63	HD11	LEU	H	4	-5.868	4.564	-6.391	1.00	0.25		H
ATOM	64	HD12	LEU	H	4	-6.940	5.722	-5.599	1.00	0.25		H
ATOM	65	HD13	LEU	H	4	-5.644	6.303	-6.666	1.00	0.25		H
ATOM	66	CD2	LEU	H	4	-8.041	6.793	-7.826	1.00	0.25		C
ATOM	67	HD21	LEU	H	4	-8.857	6.710	-8.542	1.00	0.25		H
ATOM	68	HD22	LEU	H	4	-8.459	7.090	-6.864	1.00	0.25		H
ATOM	69	HD23	LEU	H	4	-7.332	7.547	-8.167	1.00	0.25		H
ATOM	70	N	GLN	H	5	-6.255	5.497	-12.415	1.00	0.24		N
ATOM	71	H	GLN	H	5	-6.551	6.458	-12.269	1.00	0.24		H
ATOM	72	CA	GLN	H	5	-5.519	5.200	-13.643	1.00	0.24		C
ATOM	73	HA	GLN	H	5	-5.201	4.156	-13.626	1.00	0.24		H
ATOM	74	C	GLN	H	5	-4.264	6.064	-13.723	1.00	0.24		C
ATOM	75	CB	GLN	H	5	-6.446	5.392	-14.859	1.00	0.24		C
ATOM	76	HB2	GLN	H	5	-6.848	6.407	-14.860	1.00	0.24		H

ATOM	77	HB3	GLN	H	5	-7.281	4.697	-14.771	1.00	0.24		H
ATOM	78	O	GLN	H	5	-4.335	7.225	-14.108	1.00	0.24		O
ATOM	79	CG	GLN	H	5	-5.729	5.130	-16.195	1.00	0.24		C
ATOM	80	HG2	GLN	H	5	-5.017	5.931	-16.398	1.00	0.24		H
ATOM	81	HG3	GLN	H	5	-6.463	5.126	-17.000	1.00	0.24		H
ATOM	82	CD	GLN	H	5	-5.004	3.790	-16.194	1.00	0.24		C
ATOM	83	NE2	GLN	H	5	-3.693	3.774	-16.303	1.00	0.24		N
ATOM	84	HE21	GLN	H	5	-3.151	4.629	-16.343	1.00	0.24		H
ATOM	85	HE22	GLN	H	5	-3.249	2.878	-16.218	1.00	0.24		H
ATOM	86	OE1	GLN	H	5	-5.604	2.739	-16.038	1.00	0.24		O
ATOM	87	N	GLN	H	6	-3.111	5.507	-13.361	1.00	0.18		N
ATOM	88	H	GLN	H	6	-3.100	4.519	-13.121	1.00	0.18		H
ATOM	89	CA	GLN	H	6	-1.852	6.250	-13.311	1.00	0.18		C
ATOM	90	HA	GLN	H	6	-2.070	7.243	-12.923	1.00	0.18		H
ATOM	91	C	GLN	H	6	-1.201	6.442	-14.683	1.00	0.18		C
ATOM	92	CB	GLN	H	6	-0.853	5.583	-12.358	1.00	0.18		C
ATOM	93	HB2	GLN	H	6	0.016	6.236	-12.295	1.00	0.18		H
ATOM	94	HB3	GLN	H	6	-0.533	4.622	-12.758	1.00	0.18		H
ATOM	95	O	GLN	H	6	-1.485	5.701	-15.632	1.00	0.18		O
ATOM	96	CG	GLN	H	6	-1.411	5.383	-10.946	1.00	0.18		C
ATOM	97	HG2	GLN	H	6	-2.266	4.709	-10.980	1.00	0.18		H
ATOM	98	HG3	GLN	H	6	-1.737	6.352	-10.575	1.00	0.18		H
ATOM	99	CD	GLN	H	6	-0.392	4.817	-9.964	1.00	0.18		C
ATOM	100	NE2	GLN	H	6	0.887	5.069	-10.119	1.00	0.18		N
ATOM	101	HE21	GLN	H	6	1.239	5.495	-10.971	1.00	0.18		H
ATOM	102	HE22	GLN	H	6	1.535	4.682	-9.445	1.00	0.18		H
ATOM	103	OE1	GLN	H	6	-0.740	4.108	-9.034	1.00	0.18		O
ATOM	104	N	SER	H	7	-0.270	7.397	-14.745	1.00	0.17		N
ATOM	105	H	SER	H	7	-0.109	7.954	-13.910	1.00	0.17		H
ATOM	106	CA	SER	H	7	0.653	7.600	-15.864	1.00	0.17		C
ATOM	107	HA	SER	H	7	0.060	7.819	-16.751	1.00	0.17		H
ATOM	108	C	SER	H	7	1.519	6.366	-16.160	1.00	0.17		C
ATOM	109	CB	SER	H	7	1.550	8.814	-15.576	1.00	0.17		C
ATOM	110	HB2	SER	H	7	0.931	9.706	-15.523	1.00	0.17		H
ATOM	111	HB3	SER	H	7	2.261	8.943	-16.392	1.00	0.17		H
ATOM	112	O	SER	H	7	1.781	5.537	-15.283	1.00	0.17		O
ATOM	113	OG	SER	H	7	2.261	8.679	-14.355	1.00	0.17		O
ATOM	114	HG	SER	H	7	2.908	7.968	-14.460	1.00	0.17		H
ATOM	115	N	GLY	H	8	1.989	6.277	-17.409	1.00	0.20		N
ATOM	116	H	GLY	H	8	1.763	7.013	-18.058	1.00	0.20		H
ATOM	117	CA	GLY	H	8	2.905	5.229	-17.869	1.00	0.20		C
ATOM	118	HA2	GLY	H	8	2.441	4.258	-17.699	1.00	0.20		H
ATOM	119	HA3	GLY	H	8	3.078	5.344	-18.938	1.00	0.20		H

ATOM	120	C	GLY H	8	4.266	5.245	-17.165	1.00	0.20	C
ATOM	121	O	GLY H	8	4.587	6.184	-16.439	1.00	0.20	O
ATOM	122	N	ALA H	9	5.038	4.174	-17.368	1.00	0.19	N
ATOM	123	H	ALA H	9	4.730	3.473	-18.019	1.00	0.19	H
ATOM	124	CA	ALA H	9	6.365	4.006	-16.782	1.00	0.19	C
ATOM	125	HA	ALA H	9	6.271	4.081	-15.699	1.00	0.19	H
ATOM	126	C	ALA H	9	7.352	5.095	-17.235	1.00	0.19	C
ATOM	127	CB	ALA H	9	6.888	2.606	-17.124	1.00	0.19	C
ATOM	128	HB1	ALA H	9	7.000	2.505	-18.205	1.00	0.19	H
ATOM	129	HB2	ALA H	9	6.198	1.847	-16.753	1.00	0.19	H
ATOM	130	HB3	ALA H	9	7.862	2.458	-16.654	1.00	0.19	H
ATOM	131	O	ALA H	9	7.289	5.571	-18.367	1.00	0.19	O
ATOM	132	N	GLU H	11	8.282	5.431	-16.346	1.00	0.20	N
ATOM	133	H	GLU H	11	8.304	4.925	-15.467	1.00	0.20	H
ATOM	134	CA	GLU H	11	9.255	6.510	-16.504	1.00	0.20	C
ATOM	135	HA	GLU H	11	9.117	6.971	-17.484	1.00	0.20	H
ATOM	136	C	GLU H	11	10.700	5.999	-16.461	1.00	0.20	C
ATOM	137	CB	GLU H	11	9.009	7.580	-15.424	1.00	0.20	C
ATOM	138	HB2	GLU H	11	9.961	7.974	-15.069	1.00	0.20	H
ATOM	139	HB3	GLU H	11	8.506	7.129	-14.565	1.00	0.20	H
ATOM	140	O	GLU H	11	11.037	5.069	-15.717	1.00	0.20	O
ATOM	141	CG	GLU H	11	8.170	8.753	-15.946	1.00	0.20	C
ATOM	142	HG2	GLU H	11	7.765	9.288	-15.083	1.00	0.20	H
ATOM	143	HG3	GLU H	11	7.324	8.372	-16.523	1.00	0.20	H
ATOM	144	CD	GLU H	11	9.008	9.721	-16.800	1.00	0.20	C
ATOM	145	OE1	GLU H	11	10.011	9.263	-17.400	1.00	0.20	O
ATOM	146	OE2	GLU H	11	8.656	10.923	-16.810	1.00	0.20	O
ATOM	147	N	LEU H	12	11.569	6.646	-17.239	1.00	0.23	N
ATOM	148	H	LEU H	12	11.229	7.487	-17.707	1.00	0.23	H
ATOM	149	CA	LEU H	12	12.990	6.313	-17.371	1.00	0.23	C
ATOM	150	HA	LEU H	12	13.296	5.744	-16.493	1.00	0.23	H
ATOM	151	C	LEU H	12	13.817	7.600	-17.400	1.00	0.23	C
ATOM	152	CB	LEU H	12	13.209	5.421	-18.609	1.00	0.23	C
ATOM	153	HB2	LEU H	12	12.674	4.483	-18.456	1.00	0.23	H
ATOM	154	HB3	LEU H	12	12.769	5.922	-19.473	1.00	0.23	H
ATOM	155	O	LEU H	12	13.986	8.237	-18.439	1.00	0.23	O
ATOM	156	CG	LEU H	12	14.686	5.111	-18.932	1.00	0.23	C
ATOM	157	HG	LEU H	12	15.223	6.035	-19.145	1.00	0.23	H
ATOM	158	CD1	LEU H	12	15.411	4.384	-17.797	1.00	0.23	C
ATOM	159	HD11	LEU H	12	14.900	3.448	-17.575	1.00	0.23	H
ATOM	160	HD12	LEU H	12	15.436	5.009	-16.904	1.00	0.23	H
ATOM	161	HD13	LEU H	12	16.437	4.168	-18.092	1.00	0.23	H
ATOM	162	CD2	LEU H	12	14.766	4.228	-20.178	1.00	0.23	C

ATOM	163	HD21	LEU	H	12	14.256	3.282	-19.998	1.00	0.23		H
ATOM	164	HD22	LEU	H	12	15.809	4.035	-20.429	1.00	0.23		H
ATOM	165	HD23	LEU	H	12	14.291	4.739	-21.016	1.00	0.23		H
ATOM	166	N	VAL	H	13	14.354	7.971	-16.241	1.00	0.28		N
ATOM	167	H	VAL	H	13	14.276	7.337	-15.451	1.00	0.28		H
ATOM	168	CA	VAL	H	13	14.910	9.307	-16.000	1.00	0.28		C
ATOM	169	HA	VAL	H	13	14.893	9.860	-16.939	1.00	0.28		H
ATOM	170	C	VAL	H	13	16.366	9.256	-15.553	1.00	0.28		C
ATOM	171	CB	VAL	H	13	14.039	10.109	-15.020	1.00	0.28		C
ATOM	172	HB	VAL	H	13	14.463	11.110	-14.931	1.00	0.28		H
ATOM	173	O	VAL	H	13	16.843	8.275	-14.984	1.00	0.28		O
ATOM	174	CG1	VAL	H	13	12.603	10.266	-15.531	1.00	0.28		C
ATOM	175	HG11	VAL	H	13	12.603	10.646	-16.554	1.00	0.28		H
ATOM	176	HG12	VAL	H	13	12.082	9.308	-15.525	1.00	0.28		H
ATOM	177	HG13	VAL	H	13	12.053	10.966	-14.906	1.00	0.28		H
ATOM	178	CG2	VAL	H	13	14.008	9.487	-13.627	1.00	0.28		C
ATOM	179	HG21	VAL	H	13	13.282	10.032	-13.034	1.00	0.28		H
ATOM	180	HG22	VAL	H	13	14.990	9.558	-13.158	1.00	0.28		H
ATOM	181	HG23	VAL	H	13	13.704	8.441	-13.679	1.00	0.28		H
ATOM	182	N	LYS	H	14	17.096	10.336	-15.831	1.00	0.29		N
ATOM	183	H	LYS	H	14	16.634	11.123	-16.259	1.00	0.29		H
ATOM	184	CA	LYS	H	14	18.508	10.468	-15.458	1.00	0.29		C
ATOM	185	HA	LYS	H	14	18.991	9.508	-15.627	1.00	0.29		H
ATOM	186	C	LYS	H	14	18.659	10.762	-13.962	1.00	0.29		C
ATOM	187	CB	LYS	H	14	19.197	11.533	-16.335	1.00	0.29		C
ATOM	188	HB2	LYS	H	14	18.737	12.501	-16.130	1.00	0.29		H
ATOM	189	HB3	LYS	H	14	20.248	11.602	-16.052	1.00	0.29		H
ATOM	190	O	LYS	H	14	17.827	11.442	-13.362	1.00	0.29		O
ATOM	191	CG	LYS	H	14	19.114	11.273	-17.855	1.00	0.29		C
ATOM	192	HG2	LYS	H	14	19.553	12.125	-18.376	1.00	0.29		H
ATOM	193	HG3	LYS	H	14	18.066	11.227	-18.154	1.00	0.29		H
ATOM	194	CD	LYS	H	14	19.842	9.995	-18.317	1.00	0.29		C
ATOM	195	HD2	LYS	H	14	20.718	10.263	-18.913	1.00	0.29		H
ATOM	196	HD3	LYS	H	14	20.212	9.452	-17.453	1.00	0.29		H
ATOM	197	CE	LYS	H	14	18.919	9.083	-19.144	1.00	0.29		C
ATOM	198	HE2	LYS	H	14	18.797	9.517	-20.140	1.00	0.29		H
ATOM	199	HE3	LYS	H	14	17.938	9.048	-18.662	1.00	0.29		H
ATOM	200	NZ	LYS	H	14	19.460	7.705	-19.244	1.00	0.29		N
ATOM	201	HZ1	LYS	H	14	19.538	7.283	-18.319	1.00	0.29		H
ATOM	202	HZ2	LYS	H	14	20.439	7.713	-19.554	1.00	0.29		H
ATOM	203	HZ3	LYS	H	14	18.932	7.088	-19.839	1.00	0.29		H
ATOM	204	N	ALA	H	15	19.750	10.287	-13.363	1.00	0.32		N
ATOM	205	H	ALA	H	15	20.406	9.752	-13.906	1.00	0.32		H

ATOM	206	CA	ALA H	15	20.119	10.677	-12.003	1.00	0.32	C
ATOM	207	HA	ALA H	15	19.304	10.400	-11.332	1.00	0.32	H
ATOM	208	C	ALA H	15	20.313	12.205	-11.904	1.00	0.32	C
ATOM	209	CB	ALA H	15	21.370	9.900	-11.582	1.00	0.32	C
ATOM	210	HB1	ALA H	15	22.209	10.164	-12.228	1.00	0.32	H
ATOM	211	HB2	ALA H	15	21.624	10.147	-10.550	1.00	0.32	H
ATOM	212	HB3	ALA H	15	21.182	8.828	-11.652	1.00	0.32	H
ATOM	213	O	ALA H	15	20.733	12.853	-12.862	1.00	0.32	O
ATOM	214	N	GLY H	16	19.958	12.790	-10.761	1.00	0.26	N
ATOM	215	H	GLY H	16	19.643	12.193	-10.002	1.00	0.26	H
ATOM	216	CA	GLY H	16	19.927	14.237	-10.532	1.00	0.26	C
ATOM	217	HA2	GLY H	16	19.929	14.424	-9.458	1.00	0.26	H
ATOM	218	HA3	GLY H	16	20.828	14.681	-10.956	1.00	0.26	H
ATOM	219	C	GLY H	16	18.720	14.966	-11.140	1.00	0.26	C
ATOM	220	O	GLY H	16	18.433	16.087	-10.725	1.00	0.26	O
ATOM	221	N	ALA H	17	17.983	14.351	-12.074	1.00	0.30	N
ATOM	222	H	ALA H	17	18.255	13.427	-12.383	1.00	0.30	H
ATOM	223	CA	ALA H	17	16.775	14.937	-12.655	1.00	0.30	C
ATOM	224	HA	ALA H	17	16.993	15.975	-12.910	1.00	0.30	H
ATOM	225	C	ALA H	17	15.590	14.946	-11.663	1.00	0.30	C
ATOM	226	CB	ALA H	17	16.445	14.198	-13.962	1.00	0.30	C
ATOM	227	HB1	ALA H	17	15.699	14.753	-14.531	1.00	0.30	H
ATOM	228	HB2	ALA H	17	16.048	13.207	-13.740	1.00	0.30	H
ATOM	229	HB3	ALA H	17	17.343	14.101	-14.573	1.00	0.30	H
ATOM	230	O	ALA H	17	15.720	14.613	-10.482	1.00	0.30	O
ATOM	231	N	SER H	18	14.417	15.347	-12.155	1.00	0.23	N
ATOM	232	H	SER H	18	14.356	15.529	-13.148	1.00	0.23	H
ATOM	233	CA	SER H	18	13.142	15.318	-11.430	1.00	0.23	C
ATOM	234	HA	SER H	18	13.230	14.669	-10.559	1.00	0.23	H
ATOM	235	C	SER H	18	12.044	14.755	-12.331	1.00	0.23	C
ATOM	236	CB	SER H	18	12.752	16.722	-10.954	1.00	0.23	C
ATOM	237	HB2	SER H	18	11.814	16.665	-10.400	1.00	0.23	H
ATOM	238	HB3	SER H	18	12.612	17.373	-11.819	1.00	0.23	H
ATOM	239	O	SER H	18	12.118	14.907	-13.548	1.00	0.23	O
ATOM	240	OG	SER H	18	13.755	17.265	-10.113	1.00	0.23	O
ATOM	241	HG	SER H	18	14.582	17.271	-10.609	1.00	0.23	H
ATOM	242	N	VAL H	19	11.020	14.148	-11.735	1.00	0.18	N
ATOM	243	H	VAL H	19	11.017	14.105	-10.719	1.00	0.18	H
ATOM	244	CA	VAL H	19	9.894	13.511	-12.437	1.00	0.18	C
ATOM	245	HA	VAL H	19	9.875	13.870	-13.467	1.00	0.18	H
ATOM	246	C	VAL H	19	8.570	13.913	-11.780	1.00	0.18	C
ATOM	247	CB	VAL H	19	10.106	11.983	-12.484	1.00	0.18	C
ATOM	248	HB	VAL H	19	11.140	11.796	-12.777	1.00	0.18	H

ATOM	249	O	VAL	H	19	8.554	14.299	-10.606	1.00	0.18	O
ATOM	250	CG1	VAL	H	19	9.867	11.310	-11.127	1.00	0.18	C
ATOM	251	HG11	VAL	H	19	10.495	11.777	-10.373	1.00	0.18	H
ATOM	252	HG12	VAL	H	19	10.133	10.258	-11.198	1.00	0.18	H
ATOM	253	HG13	VAL	H	19	8.822	11.387	-10.829	1.00	0.18	H
ATOM	254	CG2	VAL	H	19	9.214	11.306	-13.520	1.00	0.18	C
ATOM	255	HG21	VAL	H	19	8.166	11.349	-13.236	1.00	0.18	H
ATOM	256	HG22	VAL	H	19	9.348	11.787	-14.490	1.00	0.18	H
ATOM	257	HG23	VAL	H	19	9.508	10.263	-13.625	1.00	0.18	H
ATOM	258	N	LYS	H	20	7.450	13.832	-12.511	1.00	0.25	N
ATOM	259	H	LYS	H	20	7.520	13.506	-13.469	1.00	0.25	H
ATOM	260	CA	LYS	H	20	6.112	14.076	-11.951	1.00	0.25	C
ATOM	261	HA	LYS	H	20	6.178	13.905	-10.879	1.00	0.25	H
ATOM	262	C	LYS	H	20	5.076	13.079	-12.467	1.00	0.25	C
ATOM	263	CB	LYS	H	20	5.701	15.544	-12.150	1.00	0.25	C
ATOM	264	HB2	LYS	H	20	5.486	15.745	-13.201	1.00	0.25	H
ATOM	265	HB3	LYS	H	20	6.532	16.177	-11.835	1.00	0.25	H
ATOM	266	O	LYS	H	20	4.503	13.255	-13.537	1.00	0.25	O
ATOM	267	CG	LYS	H	20	4.471	15.862	-11.281	1.00	0.25	C
ATOM	268	HG2	LYS	H	20	4.607	15.402	-10.302	1.00	0.25	H
ATOM	269	HG3	LYS	H	20	3.575	15.437	-11.738	1.00	0.25	H
ATOM	270	CD	LYS	H	20	4.280	17.370	-11.076	1.00	0.25	C
ATOM	271	HD2	LYS	H	20	5.236	17.807	-10.787	1.00	0.25	H
ATOM	272	HD3	LYS	H	20	3.944	17.835	-12.005	1.00	0.25	H
ATOM	273	CE	LYS	H	20	3.253	17.595	-9.959	1.00	0.25	C
ATOM	274	HE2	LYS	H	20	3.406	16.831	-9.192	1.00	0.25	H
ATOM	275	HE3	LYS	H	20	2.246	17.458	-10.366	1.00	0.25	H
ATOM	276	NZ	LYS	H	20	3.384	18.931	-9.331	1.00	0.25	N
ATOM	277	HZ1	LYS	H	20	3.181	19.663	-9.994	1.00	0.25	H
ATOM	278	HZ2	LYS	H	20	4.337	19.071	-8.988	1.00	0.25	H
ATOM	279	HZ3	LYS	H	20	2.736	18.998	-8.549	1.00	0.25	H
ATOM	280	N	LEU	H	21	4.833	12.049	-11.663	1.00	0.19	N
ATOM	281	H	LEU	H	21	5.271	12.060	-10.751	1.00	0.19	H
ATOM	282	CA	LEU	H	21	3.858	10.991	-11.925	1.00	0.19	C
ATOM	283	HA	LEU	H	21	3.947	10.682	-12.969	1.00	0.19	H
ATOM	284	C	LEU	H	21	2.434	11.521	-11.697	1.00	0.19	C
ATOM	285	CB	LEU	H	21	4.157	9.773	-11.022	1.00	0.19	C
ATOM	286	HB2	LEU	H	21	3.784	9.992	-10.020	1.00	0.19	H
ATOM	287	HB3	LEU	H	21	3.596	8.919	-11.404	1.00	0.19	H
ATOM	288	O	LEU	H	21	2.226	12.375	-10.827	1.00	0.19	O
ATOM	289	CG	LEU	H	21	5.647	9.381	-10.890	1.00	0.19	C
ATOM	290	HG	LEU	H	21	6.188	10.188	-10.396	1.00	0.19	H
ATOM	291	CD1	LEU	H	21	5.780	8.136	-10.017	1.00	0.19	C

ATOM	292	HD11	LEU	H	21	5.323	8.316	-9.046	1.00	0.19		H
ATOM	293	HD12	LEU	H	21	6.834	7.899	-9.868	1.00	0.19		H
ATOM	294	HD13	LEU	H	21	5.290	7.290	-10.496	1.00	0.19		H
ATOM	295	CD2	LEU	H	21	6.323	9.097	-12.232	1.00	0.19		C
ATOM	296	HD21	LEU	H	21	6.285	9.975	-12.873	1.00	0.19		H
ATOM	297	HD22	LEU	H	21	7.368	8.831	-12.073	1.00	0.19		H
ATOM	298	HD23	LEU	H	21	5.825	8.277	-12.741	1.00	0.19		H
ATOM	299	N	SER	H	22	1.448	11.003	-12.432	1.00	0.17		N
ATOM	300	H	SER	H	22	1.665	10.272	-13.104	1.00	0.17		H
ATOM	301	CA	SER	H	22	0.037	11.382	-12.272	1.00	0.17		C
ATOM	302	HA	SER	H	22	-0.048	12.053	-11.419	1.00	0.17		H
ATOM	303	C	SER	H	22	-0.856	10.181	-11.958	1.00	0.17		C
ATOM	304	CB	SER	H	22	-0.471	12.179	-13.480	1.00	0.17		C
ATOM	305	HB2	SER	H	22	-1.403	12.675	-13.207	1.00	0.17		H
ATOM	306	HB3	SER	H	22	0.263	12.941	-13.744	1.00	0.17		H
ATOM	307	O	SER	H	22	-0.540	9.032	-12.265	1.00	0.17		O
ATOM	308	OG	SER	H	22	-0.711	11.349	-14.597	1.00	0.17		O
ATOM	309	HG	SER	H	22	-0.997	11.896	-15.336	1.00	0.17		H
ATOM	310	N	CYS	H	23	-1.980	10.470	-11.310	1.00	0.20		N
ATOM	311	H	CYS	H	23	-2.109	11.431	-11.013	1.00	0.20		H
ATOM	312	CA	CYS	H	23	-3.021	9.530	-10.919	1.00	0.20		C
ATOM	313	HA	CYS	H	23	-2.985	8.643	-11.551	1.00	0.20		H
ATOM	314	C	CYS	H	23	-4.406	10.175	-11.102	1.00	0.20		C
ATOM	315	CB	CYS	H	23	-2.752	9.099	-9.476	1.00	0.20		C
ATOM	316	HB2	CYS	H	23	-2.629	9.992	-8.863	1.00	0.20		H
ATOM	317	HB3	CYS	H	23	-1.812	8.546	-9.456	1.00	0.20		H
ATOM	318	O	CYS	H	23	-4.983	10.712	-10.148	1.00	0.20		O
ATOM	319	SG	CYS	H	23	-4.037	8.082	-8.710	1.00	0.20		S
ATOM	320	N	PRO	H	24	-4.923	10.180	-12.341	1.00	0.25		N
ATOM	321	CA	PRO	H	24	-6.339	10.361	-12.620	1.00	0.25		C
ATOM	322	HA	PRO	H	24	-6.626	11.379	-12.361	1.00	0.25		H
ATOM	323	C	PRO	H	24	-7.220	9.374	-11.853	1.00	0.25		C
ATOM	324	CB	PRO	H	24	-6.476	10.167	-14.132	1.00	0.25		C
ATOM	325	HB2	PRO	H	24	-7.311	10.742	-14.535	1.00	0.25		H
ATOM	326	HB3	PRO	H	24	-6.593	9.107	-14.367	1.00	0.25		H
ATOM	327	O	PRO	H	24	-6.962	8.170	-11.847	1.00	0.25		O
ATOM	328	CG	PRO	H	24	-5.136	10.654	-14.677	1.00	0.25		C
ATOM	329	HG2	PRO	H	24	-5.165	11.736	-14.810	1.00	0.25		H
ATOM	330	HG3	PRO	H	24	-4.880	10.160	-15.614	1.00	0.25		H
ATOM	331	CD	PRO	H	24	-4.143	10.301	-13.570	1.00	0.25		C
ATOM	332	HD2	PRO	H	24	-3.619	9.379	-13.795	1.00	0.25		H
ATOM	333	HD3	PRO	H	24	-3.408	11.100	-13.489	1.00	0.25		H
ATOM	334	N	ALA	H	25	-8.280	9.876	-11.226	1.00	0.33		N

ATOM	335	H	ALA H	25	-8.413	10.882	-11.216	1.00	0.33		H
ATOM	336	CA	ALA H	25	-9.328	9.056	-10.633	1.00	0.33		C
ATOM	337	HA	ALA H	25	-8.992	8.020	-10.579	1.00	0.33		H
ATOM	338	C	ALA H	25	-10.604	9.087	-11.482	1.00	0.33		C
ATOM	339	CB	ALA H	25	-9.589	9.532	-9.205	1.00	0.33		C
ATOM	340	HB1	ALA H	25	-10.012	10.533	-9.235	1.00	0.33		H
ATOM	341	HB2	ALA H	25	-8.655	9.556	-8.642	1.00	0.33		H
ATOM	342	HB3	ALA H	25	-10.293	8.862	-8.712	1.00	0.33		H
ATOM	343	O	ALA H	25	-10.957	10.100	-12.091	1.00	0.33		O
ATOM	344	N	SER H	26	-11.336	7.981	-11.461	1.00	0.24		N
ATOM	345	H	SER H	26	-10.977	7.182	-10.948	1.00	0.24		H
ATOM	346	CA	SER H	26	-12.613	7.797	-12.144	1.00	0.24		C
ATOM	347	HA	SER H	26	-13.051	8.774	-12.350	1.00	0.24		H
ATOM	348	C	SER H	26	-13.584	7.028	-11.245	1.00	0.24		C
ATOM	349	CB	SER H	26	-12.381	7.097	-13.486	1.00	0.24		C
ATOM	350	HB2	SER H	26	-11.647	7.656	-14.068	1.00	0.24		H
ATOM	351	HB3	SER H	26	-13.316	7.057	-14.046	1.00	0.24		H
ATOM	352	O	SER H	26	-13.177	6.310	-10.327	1.00	0.24		O
ATOM	353	OG	SER H	26	-11.916	5.784	-13.274	1.00	0.24		O
ATOM	354	HG	SER H	26	-11.145	5.805	-12.685	1.00	0.24		H
ATOM	355	N	GLY H	27	-14.884	7.238	-11.459	1.00	0.46		N
ATOM	356	H	GLY H	27	-15.156	7.816	-12.238	1.00	0.46		H
ATOM	357	CA	GLY H	27	-15.945	6.666	-10.622	1.00	0.46		C
ATOM	358	HA2	GLY H	27	-15.678	5.643	-10.379	1.00	0.46		H
ATOM	359	HA3	GLY H	27	-16.878	6.654	-11.183	1.00	0.46		H
ATOM	360	C	GLY H	27	-16.200	7.379	-9.289	1.00	0.46		C
ATOM	361	O	GLY H	27	-17.154	7.032	-8.600	1.00	0.46		O
ATOM	362	N	LEU H	28	-15.385	8.377	-8.932	1.00	0.30		N
ATOM	363	H	LEU H	28	-14.614	8.599	-9.543	1.00	0.30		H
ATOM	364	CA	LEU H	28	-15.558	9.248	-7.765	1.00	0.30		C
ATOM	365	HA	LEU H	28	-16.616	9.497	-7.667	1.00	0.30		H
ATOM	366	C	LEU H	28	-14.800	10.568	-7.943	1.00	0.30		C
ATOM	367	CB	LEU H	28	-15.125	8.516	-6.484	1.00	0.30		C
ATOM	368	HB2	LEU H	28	-15.210	9.201	-5.639	1.00	0.30		H
ATOM	369	HB3	LEU H	28	-15.855	7.722	-6.317	1.00	0.30		H
ATOM	370	O	LEU H	28	-13.973	10.684	-8.850	1.00	0.30		O
ATOM	371	CG	LEU H	28	-13.722	7.881	-6.476	1.00	0.30		C
ATOM	372	HG	LEU H	28	-13.618	7.190	-7.310	1.00	0.30		H
ATOM	373	CD1	LEU H	28	-12.543	8.860	-6.480	1.00	0.30		C
ATOM	374	HD11	LEU H	28	-12.688	9.634	-5.725	1.00	0.30		H
ATOM	375	HD12	LEU H	28	-12.439	9.318	-7.460	1.00	0.30		H
ATOM	376	HD13	LEU H	28	-11.614	8.330	-6.272	1.00	0.30		H
ATOM	377	CD2	LEU H	28	-13.618	7.094	-5.178	1.00	0.30		C

ATOM	378	HD21	LEU	H	28	-12.692	6.529	-5.199	1.00	0.30		H
ATOM	379	HD22	LEU	H	28	-13.637	7.801	-4.351	1.00	0.30		H
ATOM	380	HD23	LEU	H	28	-14.450	6.395	-5.096	1.00	0.30		H
ATOM	381	N	ASN	H	29	-15.054	11.549	-7.076	1.00	0.39		N
ATOM	382	H	ASN	H	29	-15.717	11.397	-6.324	1.00	0.39		H
ATOM	383	CA	ASN	H	29	-14.268	12.780	-7.020	1.00	0.39		C
ATOM	384	HA	ASN	H	29	-13.827	12.950	-8.001	1.00	0.39		H
ATOM	385	C	ASN	H	29	-13.145	12.646	-5.981	1.00	0.39		C
ATOM	386	CB	ASN	H	29	-15.136	14.009	-6.690	1.00	0.39		C
ATOM	387	HB2	ASN	H	29	-15.189	14.129	-5.613	1.00	0.39		H
ATOM	388	HB3	ASN	H	29	-14.655	14.897	-7.091	1.00	0.39		H
ATOM	389	O	ASN	H	29	-13.388	12.245	-4.846	1.00	0.39		O
ATOM	390	CG	ASN	H	29	-16.558	13.969	-7.210	1.00	0.39		C
ATOM	391	ND2	ASN	H	29	-17.480	13.459	-6.431	1.00	0.39		N
ATOM	392	HD21	ASN	H	29	-17.219	13.144	-5.485	1.00	0.39		H
ATOM	393	HD22	ASN	H	29	-18.428	13.464	-6.744	1.00	0.39		H
ATOM	394	OD1	ASN	H	29	-16.845	14.429	-8.302	1.00	0.39		O
ATOM	395	N	ILE	H	30	-11.927	13.085	-6.300	1.00	0.19		N
ATOM	396	H	ILE	H	30	-11.746	13.372	-7.258	1.00	0.19		H
ATOM	397	CA	ILE	H	30	-10.833	13.125	-5.311	1.00	0.19		C
ATOM	398	HA	ILE	H	30	-10.844	12.172	-4.779	1.00	0.19		H
ATOM	399	C	ILE	H	30	-11.035	14.203	-4.233	1.00	0.19		C
ATOM	400	CB	ILE	H	30	-9.445	13.239	-5.978	1.00	0.19		C
ATOM	401	HB	ILE	H	30	-8.711	13.093	-5.186	1.00	0.19		H
ATOM	402	O	ILE	H	30	-10.316	14.206	-3.244	1.00	0.19		O
ATOM	403	CG1	ILE	H	30	-9.179	14.624	-6.609	1.00	0.19		C
ATOM	404	HG12	ILE	H	30	-9.414	15.402	-5.887	1.00	0.19		H
ATOM	405	HG13	ILE	H	30	-9.823	14.763	-7.477	1.00	0.19		H
ATOM	406	CG2	ILE	H	30	-9.238	12.104	-6.990	1.00	0.19		C
ATOM	407	HG21	ILE	H	30	-9.832	12.292	-7.883	1.00	0.19		H
ATOM	408	HG22	ILE	H	30	-9.537	11.153	-6.548	1.00	0.19		H
ATOM	409	HG23	ILE	H	30	-8.189	12.030	-7.275	1.00	0.19		H
ATOM	410	CD1	ILE	H	30	-7.718	14.821	-7.030	1.00	0.19		C
ATOM	411	HD11	ILE	H	30	-7.061	14.658	-6.176	1.00	0.19		H
ATOM	412	HD12	ILE	H	30	-7.583	15.837	-7.398	1.00	0.19		H
ATOM	413	HD13	ILE	H	30	-7.454	14.124	-7.823	1.00	0.19		H
ATOM	414	N	LYS	H	35	-12.001	15.121	-4.394	1.00	0.23		N
ATOM	415	H	LYS	H	35	-12.594	15.022	-5.202	1.00	0.23		H
ATOM	416	CA	LYS	H	35	-12.400	16.081	-3.342	1.00	0.23		C
ATOM	417	HA	LYS	H	35	-11.549	16.694	-3.044	1.00	0.23		H
ATOM	418	C	LYS	H	35	-12.891	15.364	-2.077	1.00	0.23		C
ATOM	419	CB	LYS	H	35	-13.549	16.978	-3.838	1.00	0.23		C
ATOM	420	HB2	LYS	H	35	-13.846	17.634	-3.016	1.00	0.23		H

ATOM	421	HB3	LYS	H	35	-14.407	16.348	-4.081	1.00	0.23		H
ATOM	422	O	LYS	H	35	-12.718	15.873	-0.976	1.00	0.23		O
ATOM	423	CG	LYS	H	35	-13.220	17.848	-5.057	1.00	0.23		C
ATOM	424	HG2	LYS	H	35	-12.946	17.211	-5.898	1.00	0.23		H
ATOM	425	HG3	LYS	H	35	-12.388	18.501	-4.802	1.00	0.23		H
ATOM	426	CD	LYS	H	35	-14.432	18.713	-5.441	1.00	0.23		C
ATOM	427	HD2	LYS	H	35	-14.697	19.327	-4.577	1.00	0.23		H
ATOM	428	HD3	LYS	H	35	-15.287	18.074	-5.670	1.00	0.23		H
ATOM	429	CE	LYS	H	35	-14.148	19.654	-6.623	1.00	0.23		C
ATOM	430	HE2	LYS	H	35	-14.933	20.415	-6.645	1.00	0.23		H
ATOM	431	HE3	LYS	H	35	-13.199	20.170	-6.442	1.00	0.23		H
ATOM	432	NZ	LYS	H	35	-14.111	18.946	-7.929	1.00	0.23		N
ATOM	433	HZ1	LYS	H	35	-13.339	18.292	-7.982	1.00	0.23		H
ATOM	434	HZ2	LYS	H	35	-14.971	18.449	-8.117	1.00	0.23		H
ATOM	435	HZ3	LYS	H	35	-13.928	19.591	-8.688	1.00	0.23		H
ATOM	436	N	ASP	H	36	-13.500	14.197	-2.263	1.00	0.41		N
ATOM	437	H	ASP	H	36	-13.627	13.890	-3.216	1.00	0.41		H
ATOM	438	CA	ASP	H	36	-14.258	13.461	-1.254	1.00	0.41		C
ATOM	439	HA	ASP	H	36	-14.791	14.178	-0.629	1.00	0.41		H
ATOM	440	C	ASP	H	36	-13.350	12.612	-0.341	1.00	0.41		C
ATOM	441	CB	ASP	H	36	-15.305	12.564	-1.964	1.00	0.41		C
ATOM	442	HB2	ASP	H	36	-14.792	11.667	-2.314	1.00	0.41		H
ATOM	443	HB3	ASP	H	36	-16.044	12.248	-1.227	1.00	0.41		H
ATOM	444	O	ASP	H	36	-13.812	12.047	0.650	1.00	0.41		O
ATOM	445	CG	ASP	H	36	-16.047	13.170	-3.178	1.00	0.41		C
ATOM	446	OD1	ASP	H	36	-16.088	14.412	-3.330	1.00	0.41		O
ATOM	447	OD2	ASP	H	36	-16.559	12.386	-4.013	1.00	0.41		O
ATOM	448	N	THR	H	37	-12.062	12.477	-0.687	1.00	0.34		N
ATOM	449	H	THR	H	37	-11.729	13.011	-1.479	1.00	0.34		H
ATOM	450	CA	THR	H	37	-11.143	11.496	-0.093	1.00	0.34		C
ATOM	451	HA	THR	H	37	-11.443	11.324	0.938	1.00	0.34		H
ATOM	452	C	THR	H	37	-9.694	11.962	-0.082	1.00	0.34		C
ATOM	453	CB	THR	H	37	-11.185	10.153	-0.839	1.00	0.34		C
ATOM	454	HB	THR	H	37	-10.454	9.488	-0.381	1.00	0.34		H
ATOM	455	O	THR	H	37	-9.256	12.724	-0.939	1.00	0.34		O
ATOM	456	CG2	THR	H	37	-12.545	9.461	-0.774	1.00	0.34		C
ATOM	457	HG21	THR	H	37	-12.434	8.426	-1.072	1.00	0.34		H
ATOM	458	HG22	THR	H	37	-13.252	9.959	-1.438	1.00	0.34		H
ATOM	459	HG23	THR	H	37	-12.931	9.492	0.244	1.00	0.34		H
ATOM	460	OG1	THR	H	37	-10.849	10.311	-2.201	1.00	0.34		O
ATOM	461	HG1	THR	H	37	-10.190	11.012	-2.265	1.00	0.34		H
ATOM	462	N	TYR	H	38	-8.895	11.421	0.832	1.00	0.24		N
ATOM	463	H	TYR	H	38	-9.251	10.677	1.421	1.00	0.24		H

ATOM	464	CA	TYR	H	38	-7.453	11.634	0.830	1.00	0.24	C
ATOM	465	HA	TYR	H	38	-7.254	12.678	0.591	1.00	0.24	H
ATOM	466	C	TYR	H	38	-6.767	10.788	-0.245	1.00	0.24	C
ATOM	467	CB	TYR	H	38	-6.896	11.346	2.227	1.00	0.24	C
ATOM	468	HB2	TYR	H	38	-5.824	11.521	2.204	1.00	0.24	H
ATOM	469	HB3	TYR	H	38	-7.043	10.286	2.442	1.00	0.24	H
ATOM	470	O	TYR	H	38	-7.022	9.590	-0.382	1.00	0.24	O
ATOM	471	CG	TYR	H	38	-7.509	12.161	3.361	1.00	0.24	C
ATOM	472	CD1	TYR	H	38	-8.034	13.456	3.139	1.00	0.24	C
ATOM	473	HD1	TYR	H	38	-8.015	13.901	2.155	1.00	0.24	H
ATOM	474	CD2	TYR	H	38	-7.578	11.601	4.652	1.00	0.24	C
ATOM	475	HD2	TYR	H	38	-7.204	10.598	4.830	1.00	0.24	H
ATOM	476	CE1	TYR	H	38	-8.641	14.173	4.187	1.00	0.24	C
ATOM	477	HE1	TYR	H	38	-9.054	15.157	4.001	1.00	0.24	H
ATOM	478	CE2	TYR	H	38	-8.178	12.318	5.706	1.00	0.24	C
ATOM	479	HE2	TYR	H	38	-8.257	11.878	6.691	1.00	0.24	H
ATOM	480	OH	TYR	H	38	-9.249	14.315	6.496	1.00	0.24	O
ATOM	481	HH	TYR	H	38	-9.856	14.991	6.180	1.00	0.24	H
ATOM	482	CZ	TYR	H	38	-8.721	13.601	5.472	1.00	0.24	C
ATOM	483	N	MET	H	39	-5.852	11.418	-0.981	1.00	0.18	N
ATOM	484	H	MET	H	39	-5.681	12.399	-0.792	1.00	0.18	H
ATOM	485	CA	MET	H	39	-5.030	10.758	-1.995	1.00	0.18	C
ATOM	486	HA	MET	H	39	-5.454	9.779	-2.231	1.00	0.18	H
ATOM	487	C	MET	H	39	-3.628	10.529	-1.435	1.00	0.18	C
ATOM	488	CB	MET	H	39	-5.019	11.575	-3.295	1.00	0.18	C
ATOM	489	HB2	MET	H	39	-4.674	12.586	-3.082	1.00	0.18	H
ATOM	490	HB3	MET	H	39	-4.322	11.118	-3.998	1.00	0.18	H
ATOM	491	O	MET	H	39	-2.851	11.471	-1.250	1.00	0.18	O
ATOM	492	CG	MET	H	39	-6.408	11.658	-3.947	1.00	0.18	C
ATOM	493	HG2	MET	H	39	-6.343	12.308	-4.819	1.00	0.18	H
ATOM	494	HG3	MET	H	39	-7.096	12.129	-3.243	1.00	0.18	H
ATOM	495	SD	MET	H	39	-7.139	10.079	-4.473	1.00	0.18	S
ATOM	496	CE	MET	H	39	-6.048	9.618	-5.847	1.00	0.18	C
ATOM	497	HE1	MET	H	39	-6.065	10.395	-6.612	1.00	0.18	H
ATOM	498	HE2	MET	H	39	-6.398	8.683	-6.284	1.00	0.18	H
ATOM	499	HE3	MET	H	39	-5.030	9.477	-5.486	1.00	0.18	H
ATOM	500	N	HIS	H	40	-3.332	9.272	-1.126	1.00	0.18	N
ATOM	501	H	HIS	H	40	-4.011	8.554	-1.369	1.00	0.18	H
ATOM	502	CA	HIS	H	40	-2.047	8.794	-0.633	1.00	0.18	C
ATOM	503	HA	HIS	H	40	-1.548	9.599	-0.100	1.00	0.18	H
ATOM	504	C	HIS	H	40	-1.146	8.376	-1.803	1.00	0.18	C
ATOM	505	CB	HIS	H	40	-2.280	7.638	0.363	1.00	0.18	C
ATOM	506	HB2	HIS	H	40	-1.316	7.190	0.606	1.00	0.18	H

ATOM	507	HB3	HIS	H	40	-2.888	6.866	-0.111	1.00	0.18		H
ATOM	508	O	HIS	H	40	-1.632	7.995	-2.869	1.00	0.18		O
ATOM	509	CG	HIS	H	40	-2.946	8.059	1.658	1.00	0.18		C
ATOM	510	CD2	HIS	H	40	-4.155	8.690	1.814	1.00	0.18		C
ATOM	511	HD2	HIS	H	40	-4.836	8.965	1.021	1.00	0.18		H
ATOM	512	ND1	HIS	H	40	-2.450	7.847	2.925	1.00	0.18		N
ATOM	513	HD1	HIS	H	40	-1.665	7.252	3.160	1.00	0.18		H
ATOM	514	CE1	HIS	H	40	-3.303	8.386	3.811	1.00	0.18		C
ATOM	515	HE1	HIS	H	40	-3.185	8.352	4.886	1.00	0.18		H
ATOM	516	NE2	HIS	H	40	-4.347	8.939	3.179	1.00	0.18		N
ATOM	517	N	TRP	H	41	0.168	8.418	-1.587	1.00	0.16		N
ATOM	518	H	TRP	H	41	0.501	8.763	-0.693	1.00	0.16		H
ATOM	519	CA	TRP	H	41	1.159	7.811	-2.478	1.00	0.16		C
ATOM	520	HA	TRP	H	41	0.642	7.193	-3.212	1.00	0.16		H
ATOM	521	C	TRP	H	41	2.084	6.882	-1.685	1.00	0.16		C
ATOM	522	CB	TRP	H	41	1.929	8.884	-3.254	1.00	0.16		C
ATOM	523	HB2	TRP	H	41	2.295	9.641	-2.560	1.00	0.16		H
ATOM	524	HB3	TRP	H	41	2.799	8.401	-3.694	1.00	0.16		H
ATOM	525	O	TRP	H	41	2.478	7.196	-0.556	1.00	0.16		O
ATOM	526	CG	TRP	H	41	1.185	9.550	-4.377	1.00	0.16		C
ATOM	527	CD1	TRP	H	41	0.357	10.613	-4.258	1.00	0.16		C
ATOM	528	HD1	TRP	H	41	0.115	11.100	-3.323	1.00	0.16		H
ATOM	529	CD2	TRP	H	41	1.174	9.201	-5.800	1.00	0.16		C
ATOM	530	CE2	TRP	H	41	0.369	10.154	-6.496	1.00	0.16		C
ATOM	531	CE3	TRP	H	41	1.799	8.204	-6.582	1.00	0.16		C
ATOM	532	HE3	TRP	H	41	2.409	7.459	-6.094	1.00	0.16		H
ATOM	533	NE1	TRP	H	41	-0.121	10.976	-5.504	1.00	0.16		N
ATOM	534	HE1	TRP	H	41	-0.752	11.748	-5.654	1.00	0.16		H
ATOM	535	CH2	TRP	H	41	0.858	9.136	-8.638	1.00	0.16		C
ATOM	536	HH2	TRP	H	41	0.750	9.097	-9.715	1.00	0.16		H
ATOM	537	CZ2	TRP	H	41	0.214	10.138	-7.891	1.00	0.16		C
ATOM	538	HZ2	TRP	H	41	-0.391	10.882	-8.386	1.00	0.16		H
ATOM	539	CZ3	TRP	H	41	1.639	8.168	-7.982	1.00	0.16		C
ATOM	540	HZ3	TRP	H	41	2.123	7.390	-8.559	1.00	0.16		H
ATOM	541	N	VAL	H	42	2.412	5.735	-2.279	1.00	0.18		N
ATOM	542	H	VAL	H	42	2.054	5.568	-3.217	1.00	0.18		H
ATOM	543	CA	VAL	H	42	3.161	4.632	-1.661	1.00	0.18		C
ATOM	544	HA	VAL	H	42	3.669	5.000	-0.773	1.00	0.18		H
ATOM	545	C	VAL	H	42	4.218	4.124	-2.643	1.00	0.18		C
ATOM	546	CB	VAL	H	42	2.214	3.488	-1.229	1.00	0.18		C
ATOM	547	HB	VAL	H	42	1.686	3.115	-2.106	1.00	0.18		H
ATOM	548	O	VAL	H	42	3.895	3.780	-3.779	1.00	0.18		O
ATOM	549	CG1	VAL	H	42	2.974	2.316	-0.596	1.00	0.18		C

ATOM	550	HG11	VAL	H	42	3.540	2.653	0.272	1.00	0.18		H
ATOM	551	HG12	VAL	H	42	2.272	1.544	-0.284	1.00	0.18		H
ATOM	552	HG13	VAL	H	42	3.658	1.875	-1.319	1.00	0.18		H
ATOM	553	CG2	VAL	H	42	1.167	3.958	-0.207	1.00	0.18		C
ATOM	554	HG21	VAL	H	42	0.530	3.119	0.079	1.00	0.18		H
ATOM	555	HG22	VAL	H	42	0.529	4.723	-0.647	1.00	0.18		H
ATOM	556	HG23	VAL	H	42	1.661	4.354	0.679	1.00	0.18		H
ATOM	557	N	LYS	H	43	5.479	4.078	-2.215	1.00	0.15		N
ATOM	558	H	LYS	H	43	5.645	4.313	-1.239	1.00	0.15		H
ATOM	559	CA	LYS	H	43	6.604	3.493	-2.958	1.00	0.15		C
ATOM	560	HA	LYS	H	43	6.456	3.645	-4.029	1.00	0.15		H
ATOM	561	C	LYS	H	43	6.669	1.984	-2.697	1.00	0.15		C
ATOM	562	CB	LYS	H	43	7.889	4.221	-2.520	1.00	0.15		C
ATOM	563	HB2	LYS	H	43	7.725	5.293	-2.589	1.00	0.15		H
ATOM	564	HB3	LYS	H	43	8.070	3.983	-1.477	1.00	0.15		H
ATOM	565	O	LYS	H	43	6.317	1.533	-1.610	1.00	0.15		O
ATOM	566	CG	LYS	H	43	9.165	3.893	-3.312	1.00	0.15		C
ATOM	567	HG2	LYS	H	43	8.996	4.092	-4.369	1.00	0.15		H
ATOM	568	HG3	LYS	H	43	9.406	2.838	-3.188	1.00	0.15		H
ATOM	569	CD	LYS	H	43	10.333	4.760	-2.800	1.00	0.15		C
ATOM	570	HD2	LYS	H	43	10.305	4.780	-1.713	1.00	0.15		H
ATOM	571	HD3	LYS	H	43	10.208	5.781	-3.159	1.00	0.15		H
ATOM	572	CE	LYS	H	43	11.702	4.222	-3.234	1.00	0.15		C
ATOM	573	HE2	LYS	H	43	11.757	3.169	-2.948	1.00	0.15		H
ATOM	574	HE3	LYS	H	43	11.789	4.291	-4.321	1.00	0.15		H
ATOM	575	NZ	LYS	H	43	12.816	4.958	-2.586	1.00	0.15		N
ATOM	576	HZ1	LYS	H	43	12.850	4.820	-1.584	1.00	0.15		H
ATOM	577	HZ2	LYS	H	43	13.737	4.640	-2.906	1.00	0.15		H
ATOM	578	HZ3	LYS	H	43	12.812	5.947	-2.771	1.00	0.15		H
ATOM	579	N	GLN	H	44	7.129	1.213	-3.675	1.00	0.15		N
ATOM	580	H	GLN	H	44	7.260	1.638	-4.586	1.00	0.15		H
ATOM	581	CA	GLN	H	44	7.465	-0.201	-3.543	1.00	0.15		C
ATOM	582	HA	GLN	H	44	7.675	-0.411	-2.496	1.00	0.15		H
ATOM	583	C	GLN	H	44	8.715	-0.518	-4.353	1.00	0.15		C
ATOM	584	CB	GLN	H	44	6.297	-1.086	-3.993	1.00	0.15		C
ATOM	585	HB2	GLN	H	44	5.994	-0.802	-5.002	1.00	0.15		H
ATOM	586	HB3	GLN	H	44	5.464	-0.912	-3.321	1.00	0.15		H
ATOM	587	O	GLN	H	44	8.715	-0.451	-5.585	1.00	0.15		O
ATOM	588	CG	GLN	H	44	6.651	-2.584	-3.981	1.00	0.15		C
ATOM	589	HG2	GLN	H	44	7.187	-2.826	-3.066	1.00	0.15		H
ATOM	590	HG3	GLN	H	44	7.305	-2.819	-4.820	1.00	0.15		H
ATOM	591	CD	GLN	H	44	5.417	-3.467	-4.075	1.00	0.15		C
ATOM	592	NE2	GLN	H	44	5.179	-4.328	-3.111	1.00	0.15		N

ATOM	593	HE21	GLN	H	44	4.346	-4.909	-3.176	1.00	0.15		H
ATOM	594	HE22	GLN	H	44	5.806	-4.405	-2.330	1.00	0.15		H
ATOM	595	OE1	GLN	H	44	4.648	-3.397	-5.025	1.00	0.15		O
ATOM	596	N	ARG	H	45	9.777	-0.901	-3.657	1.00	0.28		N
ATOM	597	H	ARG	H	45	9.690	-0.954	-2.648	1.00	0.28		H
ATOM	598	CA	ARG	H	45	10.989	-1.443	-4.272	1.00	0.28		C
ATOM	599	HA	ARG	H	45	11.100	-1.023	-5.271	1.00	0.28		H
ATOM	600	C	ARG	H	45	10.901	-2.964	-4.424	1.00	0.28		C
ATOM	601	CB	ARG	H	45	12.192	-1.019	-3.427	1.00	0.28		C
ATOM	602	HB2	ARG	H	45	11.951	-1.119	-2.370	1.00	0.28		H
ATOM	603	HB3	ARG	H	45	13.056	-1.648	-3.653	1.00	0.28		H
ATOM	604	O	ARG	H	45	10.138	-3.608	-3.699	1.00	0.28		O
ATOM	605	CG	ARG	H	45	12.548	0.433	-3.747	1.00	0.28		C
ATOM	606	HG2	ARG	H	45	11.678	1.079	-3.622	1.00	0.28		H
ATOM	607	HG3	ARG	H	45	12.880	0.486	-4.783	1.00	0.28		H
ATOM	608	CD	ARG	H	45	13.679	0.921	-2.854	1.00	0.28		C
ATOM	609	HD2	ARG	H	45	14.420	0.129	-2.743	1.00	0.28		H
ATOM	610	HD3	ARG	H	45	14.164	1.761	-3.356	1.00	0.28		H
ATOM	611	NE	ARG	H	45	13.196	1.384	-1.538	1.00	0.28		N
ATOM	612	HE	ARG	H	45	12.196	1.552	-1.413	1.00	0.28		H
ATOM	613	NH1	ARG	H	45	15.258	1.684	-0.632	1.00	0.28		N
ATOM	614	HH11	ARG	H	45	15.540	0.761	-0.945	1.00	0.28		H
ATOM	615	HH12	ARG	H	45	15.866	2.333	-0.140	1.00	0.28		H
ATOM	616	NH2	ARG	H	45	13.598	2.965	0.060	1.00	0.28		N
ATOM	617	HH21	ARG	H	45	12.604	3.183	0.170	1.00	0.28		H
ATOM	618	HH22	ARG	H	45	14.328	3.568	0.439	1.00	0.28		H
ATOM	619	CZ	ARG	H	45	14.000	1.989	-0.693	1.00	0.28		C
ATOM	620	N	PRO	H	46	11.702	-3.565	-5.324	1.00	1.03		N
ATOM	621	CA	PRO	H	46	12.053	-4.975	-5.202	1.00	1.03		C
ATOM	622	HA	PRO	H	46	11.167	-5.584	-5.382	1.00	1.03		H
ATOM	623	C	PRO	H	46	12.600	-5.228	-3.793	1.00	1.03		C
ATOM	624	CB	PRO	H	46	13.111	-5.247	-6.280	1.00	1.03		C
ATOM	625	HB2	PRO	H	46	14.111	-5.201	-5.845	1.00	1.03		H
ATOM	626	HB3	PRO	H	46	12.955	-6.212	-6.762	1.00	1.03		H
ATOM	627	O	PRO	H	46	13.263	-4.357	-3.234	1.00	1.03		O
ATOM	628	CG	PRO	H	46	12.940	-4.090	-7.265	1.00	1.03		C
ATOM	629	HG2	PRO	H	46	13.870	-3.861	-7.787	1.00	1.03		H
ATOM	630	HG3	PRO	H	46	12.147	-4.326	-7.976	1.00	1.03		H
ATOM	631	CD	PRO	H	46	12.497	-2.938	-6.367	1.00	1.03		C
ATOM	632	HD2	PRO	H	46	13.371	-2.458	-5.923	1.00	1.03		H
ATOM	633	HD3	PRO	H	46	11.916	-2.215	-6.941	1.00	1.03		H
ATOM	634	N	GLU	H	47	12.312	-6.395	-3.221	1.00	1.92		N
ATOM	635	H	GLU	H	47	11.778	-7.053	-3.761	1.00	1.92		H

ATOM	636	CA	GLU H	47	12.653	-6.789	-1.840	1.00	1.92	C
ATOM	637	HA	GLU H	47	12.334	-7.822	-1.703	1.00	1.92	H
ATOM	638	C	GLU H	47	11.956	-5.975	-0.728	1.00	1.92	C
ATOM	639	CB	GLU H	47	14.175	-6.764	-1.594	1.00	1.92	C
ATOM	640	HB2	GLU H	47	14.445	-5.722	-1.454	1.00	1.92	H
ATOM	641	HB3	GLU H	47	14.378	-7.275	-0.651	1.00	1.92	H
ATOM	642	O	GLU H	47	11.299	-6.549	0.135	1.00	1.92	O
ATOM	643	CG	GLU H	47	15.102	-7.349	-2.671	1.00	1.92	C
ATOM	644	HG2	GLU H	47	14.811	-6.984	-3.658	1.00	1.92	H
ATOM	645	HG3	GLU H	47	14.993	-8.437	-2.669	1.00	1.92	H
ATOM	646	CD	GLU H	47	16.569	-6.950	-2.425	1.00	1.92	C
ATOM	647	OE1	GLU H	47	16.807	-5.843	-1.878	1.00	1.92	O
ATOM	648	OE2	GLU H	47	17.445	-7.755	-2.807	1.00	1.92	O
ATOM	649	N	GLN H	48	12.112	-4.650	-0.723	1.00	1.43	N
ATOM	650	H	GLN H	48	12.605	-4.263	-1.522	1.00	1.43	H
ATOM	651	CA	GLN H	48	12.063	-3.809	0.482	1.00	1.43	C
ATOM	652	HA	GLN H	48	12.447	-4.409	1.307	1.00	1.43	H
ATOM	653	C	GLN H	48	10.658	-3.370	0.949	1.00	1.43	C
ATOM	654	CB	GLN H	48	13.047	-2.635	0.291	1.00	1.43	C
ATOM	655	HB2	GLN H	48	12.809	-2.131	-0.642	1.00	1.43	H
ATOM	656	HB3	GLN H	48	12.930	-1.912	1.099	1.00	1.43	H
ATOM	657	O	GLN H	48	10.538	-2.555	1.862	1.00	1.43	O
ATOM	658	CG	GLN H	48	14.526	-3.097	0.269	1.00	1.43	C
ATOM	659	HG2	GLN H	48	14.966	-2.914	1.250	1.00	1.43	H
ATOM	660	HG3	GLN H	48	14.586	-4.170	0.102	1.00	1.43	H
ATOM	661	CD	GLN H	48	15.392	-2.398	-0.783	1.00	1.43	C
ATOM	662	NE2	GLN H	48	16.202	-3.109	-1.538	1.00	1.43	N
ATOM	663	HE21	GLN H	48	16.275	-4.135	-1.488	1.00	1.43	H
ATOM	664	HE22	GLN H	48	16.753	-2.628	-2.217	1.00	1.43	H
ATOM	665	OE1	GLN H	48	15.392	-1.180	-0.921	1.00	1.43	O
ATOM	666	N	GLY H	49	9.591	-3.936	0.385	1.00	0.51	N
ATOM	667	H	GLY H	49	9.760	-4.610	-0.347	1.00	0.51	H
ATOM	668	CA	GLY H	49	8.222	-3.741	0.874	1.00	0.51	C
ATOM	669	HA2	GLY H	49	7.611	-4.589	0.567	1.00	0.51	H
ATOM	670	HA3	GLY H	49	8.236	-3.721	1.964	1.00	0.51	H
ATOM	671	C	GLY H	49	7.542	-2.466	0.369	1.00	0.51	C
ATOM	672	O	GLY H	49	7.745	-2.062	-0.774	1.00	0.51	O
ATOM	673	N	LEU H	50	6.659	-1.893	1.193	1.00	0.33	N
ATOM	674	H	LEU H	50	6.601	-2.241	2.139	1.00	0.33	H
ATOM	675	CA	LEU H	50	5.794	-0.756	0.855	1.00	0.33	C
ATOM	676	HA	LEU H	50	6.013	-0.427	-0.161	1.00	0.33	H
ATOM	677	C	LEU H	50	6.062	0.430	1.796	1.00	0.33	C
ATOM	678	CB	LEU H	50	4.320	-1.204	0.912	1.00	0.33	C

ATOM	679	HB2	LEU	H	50	4.180	-1.757	1.840	1.00	0.33		H
ATOM	680	HB3	LEU	H	50	3.675	-0.326	0.952	1.00	0.33		H
ATOM	681	O	LEU	H	50	6.075	0.280	3.018	1.00	0.33		O
ATOM	682	CG	LEU	H	50	3.881	-2.090	-0.270	1.00	0.33		C
ATOM	683	HG	LEU	H	50	4.718	-2.703	-0.605	1.00	0.33		H
ATOM	684	CD1	LEU	H	50	2.739	-3.020	0.138	1.00	0.33		C
ATOM	685	HD11	LEU	H	50	2.458	-3.648	-0.708	1.00	0.33		H
ATOM	686	HD12	LEU	H	50	1.878	-2.439	0.467	1.00	0.33		H
ATOM	687	HD13	LEU	H	50	3.071	-3.663	0.951	1.00	0.33		H
ATOM	688	CD2	LEU	H	50	3.381	-1.238	-1.437	1.00	0.33		C
ATOM	689	HD21	LEU	H	50	4.120	-0.473	-1.670	1.00	0.33		H
ATOM	690	HD22	LEU	H	50	3.222	-1.871	-2.310	1.00	0.33		H
ATOM	691	HD23	LEU	H	50	2.445	-0.751	-1.172	1.00	0.33		H
ATOM	692	N	GLU	H	51	6.244	1.619	1.226	1.00	0.22		N
ATOM	693	H	GLU	H	51	6.231	1.649	0.210	1.00	0.22		H
ATOM	694	CA	GLU	H	51	6.739	2.815	1.917	1.00	0.22		C
ATOM	695	HA	GLU	H	51	6.811	2.607	2.985	1.00	0.22		H
ATOM	696	C	GLU	H	51	5.746	3.972	1.711	1.00	0.22		C
ATOM	697	CB	GLU	H	51	8.164	3.207	1.431	1.00	0.22		C
ATOM	698	HB2	GLU	H	51	8.677	3.705	2.254	1.00	0.22		H
ATOM	699	HB3	GLU	H	51	8.065	3.950	0.646	1.00	0.22		H
ATOM	700	O	GLU	H	51	5.587	4.469	0.593	1.00	0.22		O
ATOM	701	CG	GLU	H	51	9.076	2.078	0.888	1.00	0.22		C
ATOM	702	HG2	GLU	H	51	9.449	1.490	1.729	1.00	0.22		H
ATOM	703	HG3	GLU	H	51	8.505	1.410	0.242	1.00	0.22		H
ATOM	704	CD	GLU	H	51	10.260	2.596	0.049	1.00	0.22		C
ATOM	705	OE1	GLU	H	51	10.552	2.021	-1.025	1.00	0.22		O
ATOM	706	OE2	GLU	H	51	10.930	3.579	0.438	1.00	0.22		O
ATOM	707	N	TRP	H	52	5.041	4.416	2.758	1.00	0.23		N
ATOM	708	H	TRP	H	52	5.189	4.009	3.669	1.00	0.23		H
ATOM	709	CA	TRP	H	52	4.114	5.548	2.634	1.00	0.23		C
ATOM	710	HA	TRP	H	52	3.534	5.415	1.722	1.00	0.23		H
ATOM	711	C	TRP	H	52	4.865	6.879	2.506	1.00	0.23		C
ATOM	712	CB	TRP	H	52	3.115	5.567	3.794	1.00	0.23		C
ATOM	713	HB2	TRP	H	52	3.672	5.592	4.732	1.00	0.23		H
ATOM	714	HB3	TRP	H	52	2.534	4.645	3.771	1.00	0.23		H
ATOM	715	O	TRP	H	52	5.543	7.316	3.432	1.00	0.23		O
ATOM	716	CG	TRP	H	52	2.166	6.728	3.781	1.00	0.23		C
ATOM	717	CD1	TRP	H	52	1.139	6.892	2.916	1.00	0.23		C
ATOM	718	HD1	TRP	H	52	0.884	6.192	2.127	1.00	0.23		H
ATOM	719	CD2	TRP	H	52	2.201	7.945	4.590	1.00	0.23		C
ATOM	720	CE2	TRP	H	52	1.095	8.765	4.221	1.00	0.23		C
ATOM	721	CE3	TRP	H	52	3.068	8.453	5.580	1.00	0.23		C

ATOM	722	HE3	TRP	H	52	3.955	7.885	5.828	1.00	0.23	H
ATOM	723	NE1	TRP	H	52	0.525	8.106	3.153	1.00	0.23	N
ATOM	724	HE1	TRP	H	52	-0.129	8.527	2.502	1.00	0.23	H
ATOM	725	CH2	TRP	H	52	1.693	10.456	5.848	1.00	0.23	C
ATOM	726	HH2	TRP	H	52	1.518	11.407	6.331	1.00	0.23	H
ATOM	727	CZ2	TRP	H	52	0.819	9.990	4.850	1.00	0.23	C
ATOM	728	HZ2	TRP	H	52	-0.032	10.578	4.550	1.00	0.23	H
ATOM	729	CZ3	TRP	H	52	2.825	9.698	6.194	1.00	0.23	C
ATOM	730	HZ3	TRP	H	52	3.527	10.081	6.925	1.00	0.23	H
ATOM	731	N	ILE	H	53	4.718	7.540	1.356	1.00	0.21	N
ATOM	732	H	ILE	H	53	4.134	7.124	0.640	1.00	0.21	H
ATOM	733	CA	ILE	H	53	5.397	8.807	1.046	1.00	0.21	C
ATOM	734	HA	ILE	H	53	6.415	8.772	1.434	1.00	0.21	H
ATOM	735	C	ILE	H	53	4.678	9.977	1.720	1.00	0.21	C
ATOM	736	CB	ILE	H	53	5.454	9.016	-0.487	1.00	0.21	C
ATOM	737	HB	ILE	H	53	4.429	9.058	-0.859	1.00	0.21	H
ATOM	738	O	ILE	H	53	5.295	10.883	2.283	1.00	0.21	O
ATOM	739	CG1	ILE	H	53	6.164	7.833	-1.183	1.00	0.21	C
ATOM	740	HG12	ILE	H	53	7.214	7.805	-0.890	1.00	0.21	H
ATOM	741	HG13	ILE	H	53	5.705	6.893	-0.878	1.00	0.21	H
ATOM	742	CG2	ILE	H	53	6.136	10.348	-0.856	1.00	0.21	C
ATOM	743	HG21	ILE	H	53	6.110	10.505	-1.933	1.00	0.21	H
ATOM	744	HG22	ILE	H	53	5.627	11.191	-0.390	1.00	0.21	H
ATOM	745	HG23	ILE	H	53	7.173	10.332	-0.522	1.00	0.21	H
ATOM	746	CD1	ILE	H	53	6.065	7.889	-2.708	1.00	0.21	C
ATOM	747	HD11	ILE	H	53	5.036	8.077	-3.010	1.00	0.21	H
ATOM	748	HD12	ILE	H	53	6.721	8.664	-3.106	1.00	0.21	H
ATOM	749	HD13	ILE	H	53	6.372	6.929	-3.110	1.00	0.21	H
ATOM	750	N	GLY	H	54	3.349	9.978	1.623	1.00	0.20	N
ATOM	751	H	GLY	H	54	2.902	9.185	1.180	1.00	0.20	H
ATOM	752	CA	GLY	H	54	2.513	11.072	2.083	1.00	0.20	C
ATOM	753	HA2	GLY	H	54	2.934	12.014	1.735	1.00	0.20	H
ATOM	754	HA3	GLY	H	54	2.514	11.085	3.171	1.00	0.20	H
ATOM	755	C	GLY	H	54	1.076	10.981	1.583	1.00	0.20	C
ATOM	756	O	GLY	H	54	0.684	10.030	0.901	1.00	0.20	O
ATOM	757	N	ARG	H	55	0.282	12.000	1.915	1.00	0.24	N
ATOM	758	H	ARG	H	55	0.698	12.740	2.475	1.00	0.24	H
ATOM	759	CA	ARG	H	55	-1.098	12.164	1.452	1.00	0.24	C
ATOM	760	HA	ARG	H	55	-1.164	11.700	0.469	1.00	0.24	H
ATOM	761	C	ARG	H	55	-1.466	13.627	1.271	1.00	0.24	C
ATOM	762	CB	ARG	H	55	-2.067	11.417	2.388	1.00	0.24	C
ATOM	763	HB2	ARG	H	55	-2.950	11.140	1.813	1.00	0.24	H
ATOM	764	HB3	ARG	H	55	-1.591	10.486	2.693	1.00	0.24	H

ATOM	765	O	ARG H	55	-1.061	14.469	2.073	1.00	0.24	O
ATOM	766	CG	ARG H	55	-2.510	12.171	3.658	1.00	0.24	C
ATOM	767	HG2	ARG H	55	-2.687	11.442	4.449	1.00	0.24	H
ATOM	768	HG3	ARG H	55	-1.716	12.835	3.996	1.00	0.24	H
ATOM	769	CD	ARG H	55	-3.824	12.941	3.428	1.00	0.24	C
ATOM	770	HD2	ARG H	55	-4.625	12.377	3.906	1.00	0.24	H
ATOM	771	HD3	ARG H	55	-4.047	12.972	2.360	1.00	0.24	H
ATOM	772	NE	ARG H	55	-3.786	14.334	3.916	1.00	0.24	N
ATOM	773	HE	ARG H	55	-3.078	14.931	3.516	1.00	0.24	H
ATOM	774	NH1	ARG H	55	-5.658	14.285	5.270	1.00	0.24	N
ATOM	775	HH11	ARG H	55	-5.824	13.316	5.047	1.00	0.24	H
ATOM	776	HH12	ARG H	55	-6.384	14.778	5.759	1.00	0.24	H
ATOM	777	NH2	ARG H	55	-4.659	16.211	4.844	1.00	0.24	N
ATOM	778	HH21	ARG H	55	-5.467	16.655	5.248	1.00	0.24	H
ATOM	779	HH22	ARG H	55	-4.087	16.745	4.198	1.00	0.24	H
ATOM	780	CZ	ARG H	55	-4.693	14.924	4.678	1.00	0.24	C
ATOM	781	N	ILE H	56	-2.294	13.918	0.277	1.00	0.26	N
ATOM	782	H	ILE H	56	-2.609	13.154	-0.316	1.00	0.26	H
ATOM	783	CA	ILE H	56	-2.943	15.220	0.109	1.00	0.26	C
ATOM	784	HA	ILE H	56	-2.549	15.900	0.862	1.00	0.26	H
ATOM	785	C	ILE H	56	-4.443	15.105	0.379	1.00	0.26	C
ATOM	786	CB	ILE H	56	-2.596	15.845	-1.259	1.00	0.26	C
ATOM	787	HB	ILE H	56	-1.508	15.855	-1.331	1.00	0.26	H
ATOM	788	O	ILE H	56	-5.062	14.074	0.123	1.00	0.26	O
ATOM	789	CG1	ILE H	56	-3.079	17.311	-1.329	1.00	0.26	C
ATOM	790	HG12	ILE H	56	-4.159	17.340	-1.473	1.00	0.26	H
ATOM	791	HG13	ILE H	56	-2.845	17.810	-0.387	1.00	0.26	H
ATOM	792	CG2	ILE H	56	-3.149	15.022	-2.435	1.00	0.26	C
ATOM	793	HG21	ILE H	56	-2.810	15.438	-3.382	1.00	0.26	H
ATOM	794	HG22	ILE H	56	-4.239	15.022	-2.417	1.00	0.26	H
ATOM	795	HG23	ILE H	56	-2.795	13.993	-2.376	1.00	0.26	H
ATOM	796	CD1	ILE H	56	-2.415	18.117	-2.448	1.00	0.26	C
ATOM	797	HD11	ILE H	56	-1.331	18.077	-2.344	1.00	0.26	H
ATOM	798	HD12	ILE H	56	-2.706	17.719	-3.418	1.00	0.26	H
ATOM	799	HD13	ILE H	56	-2.738	19.156	-2.387	1.00	0.26	H
ATOM	800	N	ASP H	57	-4.999	16.175	0.929	1.00	0.31	N
ATOM	801	H	ASP H	57	-4.395	16.952	1.155	1.00	0.31	H
ATOM	802	CA	ASP H	57	-6.428	16.464	0.986	1.00	0.31	C
ATOM	803	HA	ASP H	57	-7.022	15.555	0.906	1.00	0.31	H
ATOM	804	C	ASP H	57	-6.768	17.406	-0.183	1.00	0.31	C
ATOM	805	CB	ASP H	57	-6.675	17.058	2.375	1.00	0.31	C
ATOM	806	HB2	ASP H	57	-6.563	16.245	3.090	1.00	0.31	H
ATOM	807	HB3	ASP H	57	-5.911	17.808	2.585	1.00	0.31	H

ATOM	808	O	ASP H	57	-6.380	18.578	-0.137	1.00	0.31	O
ATOM	809	CG	ASP H	57	-8.029	17.701	2.631	1.00	0.31	C
ATOM	810	OD1	ASP H	57	-8.783	17.962	1.671	1.00	0.31	O
ATOM	811	OD2	ASP H	57	-8.261	17.957	3.834	1.00	0.31	O
ATOM	812	N	PRO H	58	-7.404	16.921	-1.267	1.00	0.32	N
ATOM	813	CA	PRO H	58	-7.653	17.738	-2.453	1.00	0.32	C
ATOM	814	HA	PRO H	58	-6.717	18.222	-2.736	1.00	0.32	H
ATOM	815	C	PRO H	58	-8.709	18.835	-2.257	1.00	0.32	C
ATOM	816	CB	PRO H	58	-8.042	16.752	-3.562	1.00	0.32	C
ATOM	817	HB2	PRO H	58	-9.127	16.642	-3.606	1.00	0.32	H
ATOM	818	HB3	PRO H	58	-7.645	17.062	-4.529	1.00	0.32	H
ATOM	819	O	PRO H	58	-8.780	19.739	-3.086	1.00	0.32	O
ATOM	820	CG	PRO H	58	-7.411	15.444	-3.095	1.00	0.32	C
ATOM	821	HG2	PRO H	58	-7.869	14.569	-3.546	1.00	0.32	H
ATOM	822	HG3	PRO H	58	-6.340	15.457	-3.296	1.00	0.32	H
ATOM	823	CD	PRO H	58	-7.665	15.526	-1.595	1.00	0.32	C
ATOM	824	HD2	PRO H	58	-8.708	15.289	-1.378	1.00	0.32	H
ATOM	825	HD3	PRO H	58	-7.011	14.831	-1.080	1.00	0.32	H
ATOM	826	N	ALA H	59	-9.511	18.800	-1.186	1.00	0.47	N
ATOM	827	H	ALA H	59	-9.374	18.085	-0.477	1.00	0.47	H
ATOM	828	CA	ALA H	59	-10.520	19.825	-0.913	1.00	0.47	C
ATOM	829	HA	ALA H	59	-11.065	20.033	-1.835	1.00	0.47	H
ATOM	830	C	ALA H	59	-9.915	21.159	-0.433	1.00	0.47	C
ATOM	831	CB	ALA H	59	-11.515	19.271	0.113	1.00	0.47	C
ATOM	832	HB1	ALA H	59	-11.942	18.335	-0.250	1.00	0.47	H
ATOM	833	HB2	ALA H	59	-12.321	19.990	0.266	1.00	0.47	H
ATOM	834	HB3	ALA H	59	-11.017	19.089	1.066	1.00	0.47	H
ATOM	835	O	ALA H	59	-10.545	22.203	-0.588	1.00	0.47	O
ATOM	836	N	ASN H	62	-8.707	21.141	0.149	1.00	0.52	N
ATOM	837	H	ASN H	62	-8.299	20.232	0.333	1.00	0.52	H
ATOM	838	CA	ASN H	62	-8.033	22.353	0.649	1.00	0.52	C
ATOM	839	HA	ASN H	62	-8.385	23.202	0.059	1.00	0.52	H
ATOM	840	C	ASN H	62	-6.496	22.366	0.485	1.00	0.52	C
ATOM	841	CB	ASN H	62	-8.461	22.600	2.106	1.00	0.52	C
ATOM	842	HB2	ASN H	62	-8.013	23.526	2.465	1.00	0.52	H
ATOM	843	HB3	ASN H	62	-9.544	22.717	2.148	1.00	0.52	H
ATOM	844	O	ASN H	62	-5.836	23.303	0.928	1.00	0.52	O
ATOM	845	CG	ASN H	62	-8.033	21.477	3.025	1.00	0.52	C
ATOM	846	ND2	ASN H	62	-8.950	20.621	3.403	1.00	0.52	N
ATOM	847	HD21	ASN H	62	-8.644	19.727	3.793	1.00	0.52	H
ATOM	848	HD22	ASN H	62	-9.870	20.665	3.008	1.00	0.52	H
ATOM	849	OD1	ASN H	62	-6.869	21.357	3.378	1.00	0.52	O
ATOM	850	N	GLY H	63	-5.903	21.343	-0.136	1.00	0.37	N

ATOM	851	H	GLY H	63	-6.471	20.553	-0.418	1.00	0.37	H
ATOM	852	CA	GLY H	63	-4.467	21.263	-0.419	1.00	0.37	C
ATOM	853	HA2	GLY H	63	-4.103	22.250	-0.708	1.00	0.37	H
ATOM	854	HA3	GLY H	63	-4.324	20.591	-1.265	1.00	0.37	H
ATOM	855	C	GLY H	63	-3.589	20.757	0.734	1.00	0.37	C
ATOM	856	O	GLY H	63	-2.378	20.650	0.553	1.00	0.37	O
ATOM	857	N	ASN H	64	-4.140	20.404	1.907	1.00	0.45	N
ATOM	858	H	ASN H	64	-5.137	20.542	2.027	1.00	0.45	H
ATOM	859	CA	ASN H	64	-3.339	19.948	3.055	1.00	0.45	C
ATOM	860	HA	ASN H	64	-2.596	20.723	3.257	1.00	0.45	H
ATOM	861	C	ASN H	64	-2.561	18.645	2.780	1.00	0.45	C
ATOM	862	CB	ASN H	64	-4.216	19.782	4.314	1.00	0.45	C
ATOM	863	HB2	ASN H	64	-5.269	19.696	4.058	1.00	0.45	H
ATOM	864	HB3	ASN H	64	-3.955	18.869	4.840	1.00	0.45	H
ATOM	865	O	ASN H	64	-3.082	17.532	2.934	1.00	0.45	O
ATOM	866	CG	ASN H	64	-3.991	20.889	5.310	1.00	0.45	C
ATOM	867	ND2	ASN H	64	-4.796	21.917	5.284	1.00	0.45	N
ATOM	868	HD21	ASN H	64	-4.654	22.672	5.927	1.00	0.45	H
ATOM	869	HD22	ASN H	64	-5.561	21.921	4.609	1.00	0.45	H
ATOM	870	OD1	ASN H	64	-3.067	20.805	6.112	1.00	0.45	O
ATOM	871	N	THR H	65	-1.271	18.767	2.485	1.00	0.30	N
ATOM	872	H	THR H	65	-0.916	19.687	2.246	1.00	0.30	H
ATOM	873	CA	THR H	65	-0.325	17.648	2.419	1.00	0.30	C
ATOM	874	HA	THR H	65	-0.816	16.811	1.936	1.00	0.30	H
ATOM	875	C	THR H	65	0.150	17.209	3.806	1.00	0.30	C
ATOM	876	CB	THR H	65	0.897	18.012	1.565	1.00	0.30	C
ATOM	877	HB	THR H	65	1.617	17.197	1.619	1.00	0.30	H
ATOM	878	O	THR H	65	0.253	18.027	4.725	1.00	0.30	O
ATOM	879	CG2	THR H	65	0.545	18.238	0.097	1.00	0.30	C
ATOM	880	HG21	THR H	65	-0.176	19.050	-0.006	1.00	0.30	H
ATOM	881	HG22	THR H	65	1.449	18.507	-0.450	1.00	0.30	H
ATOM	882	HG23	THR H	65	0.136	17.326	-0.332	1.00	0.30	H
ATOM	883	OG1	THR H	65	1.500	19.191	2.046	1.00	0.30	O
ATOM	884	HG1	THR H	65	2.006	18.988	2.836	1.00	0.30	H
ATOM	885	N	LYS H	66	0.495	15.927	3.948	1.00	0.25	N
ATOM	886	H	LYS H	66	0.296	15.308	3.164	1.00	0.25	H
ATOM	887	CA	LYS H	66	1.264	15.330	5.057	1.00	0.25	C
ATOM	888	HA	LYS H	66	1.854	16.103	5.548	1.00	0.25	H
ATOM	889	C	LYS H	66	2.247	14.320	4.446	1.00	0.25	C
ATOM	890	CB	LYS H	66	0.320	14.666	6.086	1.00	0.25	C
ATOM	891	HB2	LYS H	66	-0.157	13.808	5.607	1.00	0.25	H
ATOM	892	HB3	LYS H	66	0.913	14.285	6.920	1.00	0.25	H
ATOM	893	O	LYS H	66	1.889	13.692	3.454	1.00	0.25	O

ATOM	894	CG	LYS H	66	-0.798	15.581	6.640	1.00	0.25	C
ATOM	895	HG2	LYS H	66	-1.489	14.962	7.214	1.00	0.25	H
ATOM	896	HG3	LYS H	66	-1.368	15.994	5.808	1.00	0.25	H
ATOM	897	CD	LYS H	66	-0.312	16.723	7.556	1.00	0.25	C
ATOM	898	HD2	LYS H	66	0.616	17.151	7.177	1.00	0.25	H
ATOM	899	HD3	LYS H	66	-0.101	16.301	8.540	1.00	0.25	H
ATOM	900	CE	LYS H	66	-1.388	17.821	7.700	1.00	0.25	C
ATOM	901	HE2	LYS H	66	-1.514	18.056	8.761	1.00	0.25	H
ATOM	902	HE3	LYS H	66	-2.339	17.422	7.338	1.00	0.25	H
ATOM	903	NZ	LYS H	66	-1.042	19.060	6.953	1.00	0.25	N
ATOM	904	HZ1	LYS H	66	-1.843	19.688	6.857	1.00	0.25	H
ATOM	905	HZ2	LYS H	66	-0.301	19.572	7.407	1.00	0.25	H
ATOM	906	HZ3	LYS H	66	-0.714	18.832	6.016	1.00	0.25	H
ATOM	907	N	PHE H	67	3.446	14.172	5.003	1.00	0.20	N
ATOM	908	H	PHE H	67	3.657	14.652	5.864	1.00	0.20	H
ATOM	909	CA	PHE H	67	4.519	13.321	4.467	1.00	0.20	C
ATOM	910	HA	PHE H	67	4.114	12.622	3.739	1.00	0.20	H
ATOM	911	C	PHE H	67	5.153	12.490	5.585	1.00	0.20	C
ATOM	912	CB	PHE H	67	5.588	14.181	3.765	1.00	0.20	C
ATOM	913	HB2	PHE H	67	6.085	14.800	4.515	1.00	0.20	H
ATOM	914	HB3	PHE H	67	6.348	13.517	3.348	1.00	0.20	H
ATOM	915	O	PHE H	67	5.098	12.893	6.748	1.00	0.20	O
ATOM	916	CG	PHE H	67	5.075	15.073	2.647	1.00	0.20	C
ATOM	917	CD1	PHE H	67	4.655	14.503	1.432	1.00	0.20	C
ATOM	918	HD1	PHE H	67	4.719	13.433	1.292	1.00	0.20	H
ATOM	919	CD2	PHE H	67	5.041	16.472	2.808	1.00	0.20	C
ATOM	920	HD2	PHE H	67	5.415	16.920	3.719	1.00	0.20	H
ATOM	921	CE1	PHE H	67	4.176	15.324	0.395	1.00	0.20	C
ATOM	922	HE1	PHE H	67	3.869	14.877	-0.535	1.00	0.20	H
ATOM	923	CE2	PHE H	67	4.561	17.292	1.770	1.00	0.20	C
ATOM	924	HE2	PHE H	67	4.557	18.367	1.888	1.00	0.20	H
ATOM	925	CZ	PHE H	67	4.122	16.719	0.564	1.00	0.20	C
ATOM	926	HZ	PHE H	67	3.761	17.356	-0.231	1.00	0.20	H
ATOM	927	N	ASP H	68	5.777	11.364	5.245	1.00	0.12	N
ATOM	928	H	ASP H	68	5.782	11.080	4.269	1.00	0.12	H
ATOM	929	CA	ASP H	68	6.790	10.768	6.120	1.00	0.12	C
ATOM	930	HA	ASP H	68	6.393	10.740	7.133	1.00	0.12	H
ATOM	931	C	ASP H	68	8.058	11.654	6.078	1.00	0.12	C
ATOM	932	CB	ASP H	68	7.054	9.309	5.707	1.00	0.12	C
ATOM	933	HB2	ASP H	68	6.106	8.772	5.722	1.00	0.12	H
ATOM	934	HB3	ASP H	68	7.427	9.294	4.687	1.00	0.12	H
ATOM	935	O	ASP H	68	8.513	11.989	4.978	1.00	0.12	O
ATOM	936	CG	ASP H	68	8.050	8.572	6.612	1.00	0.12	C

ATOM	937	OD1	ASP	H	68	9.016	9.190	7.117	1.00	0.12	O
ATOM	938	OD2	ASP	H	68	7.865	7.366	6.877	1.00	0.12	O
ATOM	939	N	PRO	H	69	8.653	12.040	7.229	1.00	0.22	N
ATOM	940	CA	PRO	H	69	9.900	12.809	7.285	1.00	0.22	C
ATOM	941	HA	PRO	H	69	9.680	13.837	6.997	1.00	0.22	H
ATOM	942	C	PRO	H	69	11.030	12.285	6.388	1.00	0.22	C
ATOM	943	CB	PRO	H	69	10.315	12.782	8.760	1.00	0.22	C
ATOM	944	HB2	PRO	H	69	10.893	13.666	9.032	1.00	0.22	H
ATOM	945	HB3	PRO	H	69	10.877	11.872	8.980	1.00	0.22	H
ATOM	946	O	PRO	H	69	11.817	13.082	5.884	1.00	0.22	O
ATOM	947	CG	PRO	H	69	8.973	12.738	9.486	1.00	0.22	C
ATOM	948	HG2	PRO	H	69	8.541	13.739	9.522	1.00	0.22	H
ATOM	949	HG3	PRO	H	69	9.065	12.319	10.489	1.00	0.22	H
ATOM	950	CD	PRO	H	69	8.129	11.847	8.577	1.00	0.22	C
ATOM	951	HD2	PRO	H	69	7.081	12.144	8.643	1.00	0.22	H
ATOM	952	HD3	PRO	H	69	8.244	10.805	8.876	1.00	0.22	H
ATOM	953	N	LYS	H	70	11.077	10.974	6.125	1.00	0.29	N
ATOM	954	H	LYS	H	70	10.352	10.388	6.542	1.00	0.29	H
ATOM	955	CA	LYS	H	70	12.062	10.316	5.246	1.00	0.29	C
ATOM	956	HA	LYS	H	70	13.069	10.539	5.600	1.00	0.29	H
ATOM	957	C	LYS	H	70	11.999	10.811	3.792	1.00	0.29	C
ATOM	958	CB	LYS	H	70	11.829	8.795	5.308	1.00	0.29	C
ATOM	959	HB2	LYS	H	70	10.816	8.591	4.954	1.00	0.29	H
ATOM	960	HB3	LYS	H	70	12.527	8.292	4.637	1.00	0.29	H
ATOM	961	O	LYS	H	70	13.008	10.779	3.097	1.00	0.29	O
ATOM	962	CG	LYS	H	70	12.001	8.215	6.730	1.00	0.29	C
ATOM	963	HG2	LYS	H	70	13.063	8.182	6.979	1.00	0.29	H
ATOM	964	HG3	LYS	H	70	11.522	8.865	7.459	1.00	0.29	H
ATOM	965	CD	LYS	H	70	11.402	6.803	6.865	1.00	0.29	C
ATOM	966	HD2	LYS	H	70	12.129	6.079	6.492	1.00	0.29	H
ATOM	967	HD3	LYS	H	70	10.500	6.715	6.256	1.00	0.29	H
ATOM	968	CE	LYS	H	70	11.045	6.468	8.325	1.00	0.29	C
ATOM	969	HE2	LYS	H	70	11.874	6.764	8.973	1.00	0.29	H
ATOM	970	HE3	LYS	H	70	10.910	5.388	8.414	1.00	0.29	H
ATOM	971	NZ	LYS	H	70	9.797	7.149	8.750	1.00	0.29	N
ATOM	972	HZ1	LYS	H	70	9.002	6.850	8.180	1.00	0.29	H
ATOM	973	HZ2	LYS	H	70	9.811	8.138	8.512	1.00	0.29	H
ATOM	974	HZ3	LYS	H	70	9.565	7.035	9.741	1.00	0.29	H
ATOM	975	N	PHE	H	71	10.838	11.294	3.341	1.00	0.19	N
ATOM	976	H	PHE	H	71	10.052	11.301	3.982	1.00	0.19	H
ATOM	977	CA	PHE	H	71	10.627	11.858	2.002	1.00	0.19	C
ATOM	978	HA	PHE	H	71	11.480	11.595	1.375	1.00	0.19	H
ATOM	979	C	PHE	H	71	10.544	13.397	1.988	1.00	0.19	C

ATOM	980	CB	PHE	H	71	9.380	11.224	1.366	1.00	0.19	C
ATOM	981	HB2	PHE	H	71	9.171	11.728	0.423	1.00	0.19	H
ATOM	982	HB3	PHE	H	71	8.521	11.392	2.020	1.00	0.19	H
ATOM	983	O	PHE	H	71	10.341	13.990	0.922	1.00	0.19	O
ATOM	984	CG	PHE	H	71	9.509	9.740	1.073	1.00	0.19	C
ATOM	985	CD1	PHE	H	71	10.119	9.301	-0.118	1.00	0.19	C
ATOM	986	HD1	PHE	H	71	10.516	10.017	-0.822	1.00	0.19	H
ATOM	987	CD2	PHE	H	71	9.006	8.795	1.984	1.00	0.19	C
ATOM	988	HD2	PHE	H	71	8.538	9.126	2.895	1.00	0.19	H
ATOM	989	CE1	PHE	H	71	10.229	7.924	-0.388	1.00	0.19	C
ATOM	990	HE1	PHE	H	71	10.714	7.588	-1.292	1.00	0.19	H
ATOM	991	CE2	PHE	H	71	9.107	7.421	1.712	1.00	0.19	C
ATOM	992	HE2	PHE	H	71	8.718	6.699	2.417	1.00	0.19	H
ATOM	993	CZ	PHE	H	71	9.725	6.984	0.529	1.00	0.19	C
ATOM	994	HZ	PHE	H	71	9.823	5.924	0.336	1.00	0.19	H
ATOM	995	N	GLN	H	72	10.703	14.074	3.131	1.00	0.24	N
ATOM	996	H	GLN	H	72	10.944	13.567	3.975	1.00	0.24	H
ATOM	997	CA	GLN	H	72	10.620	15.534	3.197	1.00	0.24	C
ATOM	998	HA	GLN	H	72	9.665	15.823	2.755	1.00	0.24	H
ATOM	999	C	GLN	H	72	11.746	16.188	2.372	1.00	0.24	C
ATOM	1000	CB	GLN	H	72	10.612	15.985	4.668	1.00	0.24	C
ATOM	1001	HB2	GLN	H	72	11.527	15.642	5.153	1.00	0.24	H
ATOM	1002	HB3	GLN	H	72	9.764	15.518	5.171	1.00	0.24	H
ATOM	1003	O	GLN	H	72	12.926	15.948	2.601	1.00	0.24	O
ATOM	1004	CG	GLN	H	72	10.514	17.509	4.842	1.00	0.24	C
ATOM	1005	HG2	GLN	H	72	11.436	17.966	4.479	1.00	0.24	H
ATOM	1006	HG3	GLN	H	72	10.430	17.738	5.904	1.00	0.24	H
ATOM	1007	CD	GLN	H	72	9.319	18.126	4.118	1.00	0.24	C
ATOM	1008	NE2	GLN	H	72	9.512	19.198	3.381	1.00	0.24	N
ATOM	1009	HE21	GLN	H	72	10.421	19.620	3.316	1.00	0.24	H
ATOM	1010	HE22	GLN	H	72	8.699	19.571	2.925	1.00	0.24	H
ATOM	1011	OE1	GLN	H	72	8.195	17.658	4.178	1.00	0.24	O
ATOM	1012	N	GLY	H	74	11.386	17.013	1.382	1.00	0.25	N
ATOM	1013	H	GLY	H	74	10.399	17.134	1.205	1.00	0.25	H
ATOM	1014	CA	GLY	H	74	12.329	17.624	0.427	1.00	0.25	C
ATOM	1015	HA2	GLY	H	74	13.260	17.863	0.943	1.00	0.25	H
ATOM	1016	HA3	GLY	H	74	11.903	18.553	0.048	1.00	0.25	H
ATOM	1017	C	GLY	H	74	12.686	16.745	-0.784	1.00	0.25	C
ATOM	1018	O	GLY	H	74	13.142	17.266	-1.799	1.00	0.25	O
ATOM	1019	N	LYS	H	75	12.426	15.433	-0.717	1.00	0.21	N
ATOM	1020	H	LYS	H	75	12.068	15.077	0.161	1.00	0.21	H
ATOM	1021	CA	LYS	H	75	12.487	14.504	-1.859	1.00	0.21	C
ATOM	1022	HA	LYS	H	75	13.279	14.820	-2.540	1.00	0.21	H

ATOM	1023	C	LYS H	75	11.187	14.512	-2.669	1.00	0.21	C
ATOM	1024	CB	LYS H	75	12.825	13.096	-1.320	1.00	0.21	C
ATOM	1025	HB2	LYS H	75	12.214	12.894	-0.443	1.00	0.21	H
ATOM	1026	HB3	LYS H	75	13.865	13.085	-0.991	1.00	0.21	H
ATOM	1027	O	LYS H	75	11.228	14.543	-3.898	1.00	0.21	O
ATOM	1028	CG	LYS H	75	12.587	11.932	-2.299	1.00	0.21	C
ATOM	1029	HG2	LYS H	75	11.525	11.874	-2.539	1.00	0.21	H
ATOM	1030	HG3	LYS H	75	12.853	10.998	-1.801	1.00	0.21	H
ATOM	1031	CD	LYS H	75	13.380	12.035	-3.605	1.00	0.21	C
ATOM	1032	HD2	LYS H	75	13.222	13.000	-4.079	1.00	0.21	H
ATOM	1033	HD3	LYS H	75	13.012	11.268	-4.287	1.00	0.21	H
ATOM	1034	CE	LYS H	75	14.874	11.830	-3.351	1.00	0.21	C
ATOM	1035	HE2	LYS H	75	15.008	10.883	-2.816	1.00	0.21	H
ATOM	1036	HE3	LYS H	75	15.253	12.649	-2.737	1.00	0.21	H
ATOM	1037	NZ	LYS H	75	15.596	11.767	-4.633	1.00	0.21	N
ATOM	1038	HZ1	LYS H	75	16.599	11.826	-4.527	1.00	0.21	H
ATOM	1039	HZ2	LYS H	75	15.413	10.853	-5.057	1.00	0.21	H
ATOM	1040	HZ3	LYS H	75	15.302	12.510	-5.259	1.00	0.21	H
ATOM	1041	N	ALA H	76	10.048	14.443	-1.983	1.00	0.13	N
ATOM	1042	H	ALA H	76	10.105	14.415	-0.972	1.00	0.13	H
ATOM	1043	CA	ALA H	76	8.727	14.331	-2.590	1.00	0.13	C
ATOM	1044	HA	ALA H	76	8.841	14.091	-3.647	1.00	0.13	H
ATOM	1045	C	ALA H	76	7.924	15.637	-2.503	1.00	0.13	C
ATOM	1046	CB	ALA H	76	7.984	13.163	-1.930	1.00	0.13	C
ATOM	1047	HB1	ALA H	76	7.016	13.021	-2.410	1.00	0.13	H
ATOM	1048	HB2	ALA H	76	7.829	13.373	-0.870	1.00	0.13	H
ATOM	1049	HB3	ALA H	76	8.566	12.246	-2.033	1.00	0.13	H
ATOM	1050	O	ALA H	76	8.129	16.475	-1.626	1.00	0.13	O
ATOM	1051	N	THR H	77	6.959	15.795	-3.407	1.00	0.15	N
ATOM	1052	H	THR H	77	6.945	15.144	-4.188	1.00	0.15	H
ATOM	1053	CA	THR H	77	5.935	16.846	-3.367	1.00	0.15	C
ATOM	1054	HA	THR H	77	5.710	17.082	-2.326	1.00	0.15	H
ATOM	1055	C	THR H	77	4.653	16.327	-4.012	1.00	0.15	C
ATOM	1056	CB	THR H	77	6.459	18.135	-4.021	1.00	0.15	C
ATOM	1057	HB	THR H	77	7.015	17.893	-4.926	1.00	0.15	H
ATOM	1058	O	THR H	77	4.564	16.157	-5.228	1.00	0.15	O
ATOM	1059	CG2	THR H	77	5.380	19.168	-4.355	1.00	0.15	C
ATOM	1060	HG21	THR H	77	4.759	18.812	-5.175	1.00	0.15	H
ATOM	1061	HG22	THR H	77	4.761	19.360	-3.478	1.00	0.15	H
ATOM	1062	HG23	THR H	77	5.858	20.098	-4.665	1.00	0.15	H
ATOM	1063	OG1	THR H	77	7.317	18.767	-3.102	1.00	0.15	O
ATOM	1064	HG1	THR H	77	7.839	18.082	-2.654	1.00	0.15	H
ATOM	1065	N	ILE H	78	3.650	16.040	-3.180	1.00	0.13	N

ATOM	1066	H	ILE	H	78	3.774	16.233	-2.199	1.00	0.13		H
ATOM	1067	CA	ILE	H	78	2.323	15.610	-3.634	1.00	0.13		C
ATOM	1068	HA	ILE	H	78	2.439	15.088	-4.583	1.00	0.13		H
ATOM	1069	C	ILE	H	78	1.458	16.851	-3.883	1.00	0.13		C
ATOM	1070	CB	ILE	H	78	1.676	14.605	-2.651	1.00	0.13		C
ATOM	1071	HB	ILE	H	78	1.605	15.083	-1.672	1.00	0.13		H
ATOM	1072	O	ILE	H	78	1.451	17.783	-3.085	1.00	0.13		O
ATOM	1073	CG1	ILE	H	78	2.530	13.317	-2.528	1.00	0.13		C
ATOM	1074	HG12	ILE	H	78	3.584	13.575	-2.432	1.00	0.13		H
ATOM	1075	HG13	ILE	H	78	2.425	12.720	-3.435	1.00	0.13		H
ATOM	1076	CG2	ILE	H	78	0.259	14.216	-3.112	1.00	0.13		C
ATOM	1077	HG21	ILE	H	78	-0.205	13.538	-2.397	1.00	0.13		H
ATOM	1078	HG22	ILE	H	78	-0.374	15.097	-3.188	1.00	0.13		H
ATOM	1079	HG23	ILE	H	78	0.302	13.733	-4.090	1.00	0.13		H
ATOM	1080	CD1	ILE	H	78	2.169	12.455	-1.310	1.00	0.13		C
ATOM	1081	HD11	ILE	H	78	2.207	13.059	-0.403	1.00	0.13		H
ATOM	1082	HD12	ILE	H	78	1.172	12.030	-1.418	1.00	0.13		H
ATOM	1083	HD13	ILE	H	78	2.887	11.640	-1.220	1.00	0.13		H
ATOM	1084	N	THR	H	79	0.719	16.852	-4.988	1.00	0.18		N
ATOM	1085	H	THR	H	79	0.727	16.001	-5.547	1.00	0.18		H
ATOM	1086	CA	THR	H	79	-0.197	17.921	-5.424	1.00	0.18		C
ATOM	1087	HA	THR	H	79	-0.512	18.501	-4.557	1.00	0.18		H
ATOM	1088	C	THR	H	79	-1.460	17.293	-6.024	1.00	0.18		C
ATOM	1089	CB	THR	H	79	0.503	18.885	-6.408	1.00	0.18		C
ATOM	1090	HB	THR	H	79	-0.250	19.454	-6.953	1.00	0.18		H
ATOM	1091	O	THR	H	79	-1.476	16.094	-6.298	1.00	0.18		O
ATOM	1092	CG2	THR	H	79	1.417	19.877	-5.692	1.00	0.18		C
ATOM	1093	HG21	THR	H	79	1.829	20.582	-6.413	1.00	0.18		H
ATOM	1094	HG22	THR	H	79	0.845	20.433	-4.948	1.00	0.18		H
ATOM	1095	HG23	THR	H	79	2.232	19.355	-5.192	1.00	0.18		H
ATOM	1096	OG1	THR	H	79	1.321	18.191	-7.331	1.00	0.18		O
ATOM	1097	HG1	THR	H	79	1.570	17.373	-6.879	1.00	0.18		H
ATOM	1098	N	ALA	H	80	-2.534	18.060	-6.204	1.00	0.16		N
ATOM	1099	H	ALA	H	80	-2.506	19.044	-5.974	1.00	0.16		H
ATOM	1100	CA	ALA	H	80	-3.783	17.570	-6.784	1.00	0.16		C
ATOM	1101	HA	ALA	H	80	-3.557	16.799	-7.519	1.00	0.16		H
ATOM	1102	C	ALA	H	80	-4.518	18.694	-7.514	1.00	0.16		C
ATOM	1103	CB	ALA	H	80	-4.663	16.955	-5.686	1.00	0.16		C
ATOM	1104	HB1	ALA	H	80	-5.601	16.616	-6.123	1.00	0.16		H
ATOM	1105	HB2	ALA	H	80	-4.879	17.697	-4.916	1.00	0.16		H
ATOM	1106	HB3	ALA	H	80	-4.158	16.099	-5.239	1.00	0.16		H
ATOM	1107	O	ALA	H	80	-4.469	19.845	-7.086	1.00	0.16		O
ATOM	1108	N	ASP	H	81	-5.218	18.336	-8.584	1.00	0.25		N

ATOM	1109	H	ASP	H	81	-5.189	17.363	-8.879	1.00	0.25		H
ATOM	1110	CA	ASP	H	81	-6.183	19.187	-9.266	1.00	0.25		C
ATOM	1111	HA	ASP	H	81	-6.258	20.154	-8.763	1.00	0.25		H
ATOM	1112	C	ASP	H	81	-7.556	18.509	-9.214	1.00	0.25		C
ATOM	1113	CB	ASP	H	81	-5.733	19.451	-10.705	1.00	0.25		C
ATOM	1114	HB2	ASP	H	81	-5.452	18.503	-11.166	1.00	0.25		H
ATOM	1115	HB3	ASP	H	81	-4.861	20.106	-10.698	1.00	0.25		H
ATOM	1116	O	ASP	H	81	-7.730	17.374	-9.661	1.00	0.25		O
ATOM	1117	CG	ASP	H	81	-6.846	20.091	-11.535	1.00	0.25		C
ATOM	1118	OD1	ASP	H	81	-7.724	20.796	-10.986	1.00	0.25		O
ATOM	1119	OD2	ASP	H	81	-6.917	19.772	-12.734	1.00	0.25		O
ATOM	1120	N	THR	H	82	-8.542	19.207	-8.654	1.00	0.29		N
ATOM	1121	H	THR	H	82	-8.356	20.168	-8.407	1.00	0.29		H
ATOM	1122	CA	THR	H	82	-9.907	18.685	-8.517	1.00	0.29		C
ATOM	1123	HA	THR	H	82	-9.847	17.597	-8.501	1.00	0.29		H
ATOM	1124	C	THR	H	82	-10.820	19.024	-9.695	1.00	0.29		C
ATOM	1125	CB	THR	H	82	-10.554	19.091	-7.190	1.00	0.29		C
ATOM	1126	HB	THR	H	82	-11.460	18.499	-7.085	1.00	0.29		H
ATOM	1127	O	THR	H	82	-11.987	18.627	-9.667	1.00	0.29		O
ATOM	1128	CG2	THR	H	82	-9.667	18.794	-5.987	1.00	0.29		C
ATOM	1129	HG21	THR	H	82	-10.219	18.987	-5.070	1.00	0.29		H
ATOM	1130	HG22	THR	H	82	-9.373	17.747	-6.009	1.00	0.29		H
ATOM	1131	HG23	THR	H	82	-8.773	19.418	-5.994	1.00	0.29		H
ATOM	1132	OG1	THR	H	82	-10.922	20.447	-7.150	1.00	0.29		O
ATOM	1133	HG1	THR	H	82	-10.166	20.944	-6.817	1.00	0.29		H
ATOM	1134	N	SER	H	83	-10.322	19.734	-10.713	1.00	0.35		N
ATOM	1135	H	SER	H	83	-9.361	20.070	-10.652	1.00	0.35		H
ATOM	1136	CA	SER	H	83	-10.998	19.902	-12.004	1.00	0.35		C
ATOM	1137	HA	SER	H	83	-12.074	19.914	-11.832	1.00	0.35		H
ATOM	1138	C	SER	H	83	-10.716	18.704	-12.922	1.00	0.35		C
ATOM	1139	CB	SER	H	83	-10.643	21.256	-12.635	1.00	0.35		C
ATOM	1140	HB2	SER	H	83	-10.796	22.046	-11.899	1.00	0.35		H
ATOM	1141	HB3	SER	H	83	-11.322	21.434	-13.471	1.00	0.35		H
ATOM	1142	O	SER	H	83	-11.658	18.024	-13.318	1.00	0.35		O
ATOM	1143	OG	SER	H	83	-9.324	21.328	-13.124	1.00	0.35		O
ATOM	1144	HG	SER	H	83	-8.671	21.210	-12.399	1.00	0.35		H
ATOM	1145	N	SER	H	84	-9.445	18.343	-13.147	1.00	0.25		N
ATOM	1146	H	SER	H	84	-8.707	18.997	-12.893	1.00	0.25		H
ATOM	1147	CA	SER	H	84	-9.047	17.102	-13.845	1.00	0.25		C
ATOM	1148	HA	SER	H	84	-9.753	16.936	-14.659	1.00	0.25		H
ATOM	1149	C	SER	H	84	-9.091	15.840	-12.972	1.00	0.25		C
ATOM	1150	CB	SER	H	84	-7.657	17.243	-14.478	1.00	0.25		C
ATOM	1151	HB2	SER	H	84	-7.448	16.360	-15.083	1.00	0.25		H

ATOM	1152	HB3	SER	H	84	-7.645	18.116	-15.132	1.00	0.25		H
ATOM	1153	O	SER	H	84	-8.675	14.771	-13.418	1.00	0.25		O
ATOM	1154	OG	SER	H	84	-6.643	17.378	-13.502	1.00	0.25		O
ATOM	1155	HG	SER	H	84	-6.676	18.331	-13.227	1.00	0.25		H
ATOM	1156	N	ASN	H	85	-9.567	15.947	-11.727	1.00	0.25		N
ATOM	1157	H	ASN	H	85	-9.858	16.864	-11.433	1.00	0.25		H
ATOM	1158	CA	ASN	H	85	-9.739	14.829	-10.795	1.00	0.25		C
ATOM	1159	HA	ASN	H	85	-9.953	15.271	-9.822	1.00	0.25		H
ATOM	1160	C	ASN	H	85	-8.461	13.980	-10.605	1.00	0.25		C
ATOM	1161	CB	ASN	H	85	-10.970	14.022	-11.243	1.00	0.25		C
ATOM	1162	HB2	ASN	H	85	-11.719	14.690	-11.670	1.00	0.25		H
ATOM	1163	HB3	ASN	H	85	-10.676	13.312	-12.018	1.00	0.25		H
ATOM	1164	O	ASN	H	85	-8.521	12.756	-10.477	1.00	0.25		O
ATOM	1165	CG	ASN	H	85	-11.637	13.298	-10.098	1.00	0.25		C
ATOM	1166	ND2	ASN	H	85	-11.997	12.055	-10.291	1.00	0.25		N
ATOM	1167	HD21	ASN	H	85	-11.716	11.570	-11.137	1.00	0.25		H
ATOM	1168	HD22	ASN	H	85	-12.587	11.596	-9.607	1.00	0.25		H
ATOM	1169	OD1	ASN	H	85	-11.864	13.861	-9.035	1.00	0.25		O
ATOM	1170	N	THR	H	86	-7.299	14.638	-10.626	1.00	0.19		N
ATOM	1171	H	THR	H	86	-7.335	15.653	-10.651	1.00	0.19		H
ATOM	1172	CA	THR	H	86	-5.984	13.999	-10.742	1.00	0.19		C
ATOM	1173	HA	THR	H	86	-6.108	12.918	-10.704	1.00	0.19		H
ATOM	1174	C	THR	H	86	-5.067	14.399	-9.590	1.00	0.19		C
ATOM	1175	CB	THR	H	86	-5.348	14.327	-12.102	1.00	0.19		C
ATOM	1176	HB	THR	H	86	-5.316	15.407	-12.246	1.00	0.19		H
ATOM	1177	O	THR	H	86	-4.824	15.583	-9.347	1.00	0.19		O
ATOM	1178	CG2	THR	H	86	-3.935	13.764	-12.246	1.00	0.19		C
ATOM	1179	HG21	THR	H	86	-3.590	13.909	-13.270	1.00	0.19		H
ATOM	1180	HG22	THR	H	86	-3.254	14.271	-11.568	1.00	0.19		H
ATOM	1181	HG23	THR	H	86	-3.936	12.707	-12.008	1.00	0.19		H
ATOM	1182	OG1	THR	H	86	-6.096	13.734	-13.138	1.00	0.19		O
ATOM	1183	HG1	THR	H	86	-6.964	14.171	-13.195	1.00	0.19		H
ATOM	1184	N	ALA	H	87	-4.522	13.405	-8.888	1.00	0.16		N
ATOM	1185	H	ALA	H	87	-4.752	12.454	-9.162	1.00	0.16		H
ATOM	1186	CA	ALA	H	87	-3.405	13.594	-7.965	1.00	0.16		C
ATOM	1187	HA	ALA	H	87	-3.454	14.597	-7.542	1.00	0.16		H
ATOM	1188	C	ALA	H	87	-2.061	13.460	-8.705	1.00	0.16		C
ATOM	1189	CB	ALA	H	87	-3.540	12.597	-6.809	1.00	0.16		C
ATOM	1190	HB1	ALA	H	87	-3.478	11.575	-7.186	1.00	0.16		H
ATOM	1191	HB2	ALA	H	87	-2.746	12.765	-6.082	1.00	0.16		H
ATOM	1192	HB3	ALA	H	87	-4.503	12.738	-6.318	1.00	0.16		H
ATOM	1193	O	ALA	H	87	-1.954	12.723	-9.683	1.00	0.16		O
ATOM	1194	N	TYR	H	88	-1.017	14.125	-8.214	1.00	0.17		N

ATOM	1195	H	TYR H	88	-1.165	14.724	-7.410	1.00	0.17		H
ATOM	1196	CA	TYR H	88	0.321	14.122	-8.809	1.00	0.17		C
ATOM	1197	HA	TYR H	88	0.402	13.287	-9.503	1.00	0.17		H
ATOM	1198	C	TYR H	88	1.403	13.964	-7.739	1.00	0.17		C
ATOM	1199	CB	TYR H	88	0.574	15.419	-9.590	1.00	0.17		C
ATOM	1200	HB2	TYR H	88	0.596	16.246	-8.884	1.00	0.17		H
ATOM	1201	HB3	TYR H	88	1.564	15.343	-10.038	1.00	0.17		H
ATOM	1202	O	TYR H	88	1.389	14.686	-6.739	1.00	0.17		O
ATOM	1203	CG	TYR H	88	-0.417	15.772	-10.684	1.00	0.17		C
ATOM	1204	CD1	TYR H	88	-0.140	15.428	-12.021	1.00	0.17		C
ATOM	1205	HD1	TYR H	88	0.755	14.870	-12.265	1.00	0.17		H
ATOM	1206	CD2	TYR H	88	-1.582	16.503	-10.373	1.00	0.17		C
ATOM	1207	HD2	TYR H	88	-1.801	16.766	-9.348	1.00	0.17		H
ATOM	1208	CE1	TYR H	88	-1.027	15.817	-13.044	1.00	0.17		C
ATOM	1209	HE1	TYR H	88	-0.827	15.564	-14.075	1.00	0.17		H
ATOM	1210	CE2	TYR H	88	-2.475	16.885	-11.394	1.00	0.17		C
ATOM	1211	HE2	TYR H	88	-3.376	17.428	-11.154	1.00	0.17		H
ATOM	1212	OH	TYR H	88	-3.056	16.883	-13.733	1.00	0.17		O
ATOM	1213	HH	TYR H	88	-3.934	17.133	-13.424	1.00	0.17		H
ATOM	1214	CZ	TYR H	88	-2.198	16.544	-12.736	1.00	0.17		C
ATOM	1215	N	LEU H	89	2.375	13.087	-7.985	1.00	0.16		N
ATOM	1216	H	LEU H	89	2.342	12.577	-8.866	1.00	0.16		H
ATOM	1217	CA	LEU H	89	3.576	12.916	-7.166	1.00	0.16		C
ATOM	1218	HA	LEU H	89	3.483	13.507	-6.253	1.00	0.16		H
ATOM	1219	C	LEU H	89	4.797	13.420	-7.933	1.00	0.16		C
ATOM	1220	CB	LEU H	89	3.711	11.441	-6.749	1.00	0.16		C
ATOM	1221	HB2	LEU H	89	2.915	11.217	-6.045	1.00	0.16		H
ATOM	1222	HB3	LEU H	89	3.575	10.816	-7.633	1.00	0.16		H
ATOM	1223	O	LEU H	89	5.220	12.822	-8.920	1.00	0.16		O
ATOM	1224	CG	LEU H	89	5.060	11.069	-6.101	1.00	0.16		C
ATOM	1225	HG	LEU H	89	5.870	11.298	-6.788	1.00	0.16		H
ATOM	1226	CD1	LEU H	89	5.300	11.812	-4.784	1.00	0.16		C
ATOM	1227	HD11	LEU H	89	6.258	11.502	-4.368	1.00	0.16		H
ATOM	1228	HD12	LEU H	89	5.339	12.886	-4.955	1.00	0.16		H
ATOM	1229	HD13	LEU H	89	4.510	11.576	-4.073	1.00	0.16		H
ATOM	1230	CD2	LEU H	89	5.105	9.572	-5.819	1.00	0.16		C
ATOM	1231	HD21	LEU H	89	6.072	9.309	-5.396	1.00	0.16		H
ATOM	1232	HD22	LEU H	89	4.315	9.297	-5.124	1.00	0.16		H
ATOM	1233	HD23	LEU H	89	4.971	9.019	-6.748	1.00	0.16		H
ATOM	1234	N	GLN H	90	5.367	14.523	-7.464	1.00	0.12		N
ATOM	1235	H	GLN H	90	4.972	14.958	-6.637	1.00	0.12		H
ATOM	1236	CA	GLN H	90	6.642	15.047	-7.932	1.00	0.12		C
ATOM	1237	HA	GLN H	90	6.807	14.730	-8.959	1.00	0.12		H

ATOM	1238	C	GLN	H	90	7.773	14.496	-7.059	1.00	0.12	C
ATOM	1239	CB	GLN	H	90	6.537	16.575	-7.907	1.00	0.12	C
ATOM	1240	HB2	GLN	H	90	5.608	16.828	-8.417	1.00	0.12	H
ATOM	1241	HB3	GLN	H	90	6.457	16.916	-6.876	1.00	0.12	H
ATOM	1242	O	GLN	H	90	7.654	14.503	-5.832	1.00	0.12	O
ATOM	1243	CG	GLN	H	90	7.680	17.337	-8.584	1.00	0.12	C
ATOM	1244	HG2	GLN	H	90	7.874	16.905	-9.566	1.00	0.12	H
ATOM	1245	HG3	GLN	H	90	8.584	17.248	-7.981	1.00	0.12	H
ATOM	1246	CD	GLN	H	90	7.329	18.815	-8.777	1.00	0.12	C
ATOM	1247	NE2	GLN	H	90	8.309	19.674	-8.939	1.00	0.12	N
ATOM	1248	HE21	GLN	H	90	8.062	20.636	-9.084	1.00	0.12	H
ATOM	1249	HE22	GLN	H	90	9.268	19.373	-8.889	1.00	0.12	H
ATOM	1250	OE1	GLN	H	90	6.169	19.222	-8.813	1.00	0.12	O
ATOM	1251	N	LEU	H	91	8.856	14.032	-7.681	1.00	0.17	N
ATOM	1252	H	LEU	H	91	8.874	14.055	-8.697	1.00	0.17	H
ATOM	1253	CA	LEU	H	91	10.063	13.550	-7.005	1.00	0.17	C
ATOM	1254	HA	LEU	H	91	10.021	13.810	-5.948	1.00	0.17	H
ATOM	1255	C	LEU	H	91	11.279	14.249	-7.617	1.00	0.17	C
ATOM	1256	CB	LEU	H	91	10.178	12.020	-7.128	1.00	0.17	C
ATOM	1257	HB2	LEU	H	91	11.140	11.706	-6.722	1.00	0.17	H
ATOM	1258	HB3	LEU	H	91	10.165	11.775	-8.187	1.00	0.17	H
ATOM	1259	O	LEU	H	91	11.420	14.286	-8.841	1.00	0.17	O
ATOM	1260	CG	LEU	H	91	9.071	11.214	-6.427	1.00	0.17	C
ATOM	1261	HG	LEU	H	91	8.112	11.709	-6.558	1.00	0.17	H
ATOM	1262	CD1	LEU	H	91	8.972	9.822	-7.047	1.00	0.17	C
ATOM	1263	HD11	LEU	H	91	9.916	9.287	-6.928	1.00	0.17	H
ATOM	1264	HD12	LEU	H	91	8.737	9.901	-8.108	1.00	0.17	H
ATOM	1265	HD13	LEU	H	91	8.179	9.258	-6.563	1.00	0.17	H
ATOM	1266	CD2	LEU	H	91	9.355	11.061	-4.933	1.00	0.17	C
ATOM	1267	HD21	LEU	H	91	8.543	10.511	-4.460	1.00	0.17	H
ATOM	1268	HD22	LEU	H	91	9.444	12.042	-4.473	1.00	0.17	H
ATOM	1269	HD23	LEU	H	91	10.286	10.510	-4.786	1.00	0.17	H
ATOM	1270	N	SER	H	92	12.136	14.818	-6.772	1.00	0.21	N
ATOM	1271	H	SER	H	92	11.930	14.780	-5.778	1.00	0.21	H
ATOM	1272	CA	SER	H	92	13.267	15.657	-7.186	1.00	0.21	C
ATOM	1273	HA	SER	H	92	13.294	15.683	-8.272	1.00	0.21	H
ATOM	1274	C	SER	H	92	14.624	15.100	-6.760	1.00	0.21	C
ATOM	1275	CB	SER	H	92	13.055	17.103	-6.715	1.00	0.21	C
ATOM	1276	HB2	SER	H	92	12.257	17.539	-7.319	1.00	0.21	H
ATOM	1277	HB3	SER	H	92	13.961	17.688	-6.881	1.00	0.21	H
ATOM	1278	O	SER	H	92	14.722	14.265	-5.854	1.00	0.21	O
ATOM	1279	OG	SER	H	92	12.668	17.185	-5.355	1.00	0.21	O
ATOM	1280	HG	SER	H	92	13.413	17.003	-4.772	1.00	0.21	H

ATOM	1281	N	SER	H	93	15.679	15.566	-7.437	1.00	0.32		N
ATOM	1282	H	SER	H	93	15.511	16.226	-8.182	1.00	0.32		H
ATOM	1283	CA	SER	H	93	17.080	15.187	-7.192	1.00	0.32		C
ATOM	1284	HA	SER	H	93	17.672	15.550	-8.032	1.00	0.32		H
ATOM	1285	C	SER	H	93	17.251	13.665	-7.154	1.00	0.32		C
ATOM	1286	CB	SER	H	93	17.615	15.870	-5.927	1.00	0.32		C
ATOM	1287	HB2	SER	H	93	17.079	15.497	-5.053	1.00	0.32		H
ATOM	1288	HB3	SER	H	93	18.676	15.643	-5.818	1.00	0.32		H
ATOM	1289	O	SER	H	93	17.639	13.088	-6.135	1.00	0.32		O
ATOM	1290	OG	SER	H	93	17.441	17.273	-6.020	1.00	0.32		O
ATOM	1291	HG	SER	H	93	17.856	17.687	-5.257	1.00	0.32		H
ATOM	1292	N	LEU	H	94	16.820	13.004	-8.229	1.00	0.26		N
ATOM	1293	H	LEU	H	94	16.486	13.551	-9.018	1.00	0.26		H
ATOM	1294	CA	LEU	H	94	16.636	11.555	-8.275	1.00	0.26		C
ATOM	1295	HA	LEU	H	94	16.062	11.269	-7.396	1.00	0.26		H
ATOM	1296	C	LEU	H	94	17.951	10.768	-8.194	1.00	0.26		C
ATOM	1297	CB	LEU	H	94	15.809	11.179	-9.512	1.00	0.26		C
ATOM	1298	HB2	LEU	H	94	15.767	10.093	-9.600	1.00	0.26		H
ATOM	1299	HB3	LEU	H	94	16.313	11.567	-10.399	1.00	0.26		H
ATOM	1300	O	LEU	H	94	19.000	11.183	-8.683	1.00	0.26		O
ATOM	1301	CG	LEU	H	94	14.370	11.724	-9.457	1.00	0.26		C
ATOM	1302	HG	LEU	H	94	14.371	12.794	-9.261	1.00	0.26		H
ATOM	1303	CD1	LEU	H	94	13.692	11.486	-10.796	1.00	0.26		C
ATOM	1304	HD11	LEU	H	94	14.304	11.887	-11.604	1.00	0.26		H
ATOM	1305	HD12	LEU	H	94	12.727	11.984	-10.810	1.00	0.26		H
ATOM	1306	HD13	LEU	H	94	13.551	10.414	-10.930	1.00	0.26		H
ATOM	1307	CD2	LEU	H	94	13.521	11.035	-8.389	1.00	0.26		C
ATOM	1308	HD21	LEU	H	94	13.583	9.951	-8.498	1.00	0.26		H
ATOM	1309	HD22	LEU	H	94	12.485	11.337	-8.515	1.00	0.26		H
ATOM	1310	HD23	LEU	H	94	13.850	11.322	-7.393	1.00	0.26		H
ATOM	1311	N	THR	H	95	17.866	9.597	-7.583	1.00	0.28		N
ATOM	1312	H	THR	H	95	16.950	9.322	-7.236	1.00	0.28		H
ATOM	1313	CA	THR	H	95	18.957	8.683	-7.241	1.00	0.28		C
ATOM	1314	HA	THR	H	95	19.839	8.926	-7.830	1.00	0.28		H
ATOM	1315	C	THR	H	95	18.537	7.254	-7.575	1.00	0.28		C
ATOM	1316	CB	THR	H	95	19.319	8.778	-5.746	1.00	0.28		C
ATOM	1317	HB	THR	H	95	20.186	8.141	-5.573	1.00	0.28		H
ATOM	1318	O	THR	H	95	17.362	6.983	-7.815	1.00	0.28		O
ATOM	1319	CG2	THR	H	95	19.684	10.189	-5.284	1.00	0.28		C
ATOM	1320	HG21	THR	H	95	18.798	10.820	-5.261	1.00	0.28		H
ATOM	1321	HG22	THR	H	95	20.417	10.617	-5.967	1.00	0.28		H
ATOM	1322	HG23	THR	H	95	20.115	10.146	-4.284	1.00	0.28		H
ATOM	1323	OG1	THR	H	95	18.272	8.298	-4.934	1.00	0.28		O

ATOM	1324	HG1	THR	H	95	17.443	8.770	-5.158	1.00	0.28		H
ATOM	1325	N	SER	H	96	19.476	6.309	-7.571	1.00	0.33		N
ATOM	1326	H	SER	H	96	20.424	6.528	-7.304	1.00	0.33		H
ATOM	1327	CA	SER	H	96	19.143	4.893	-7.767	1.00	0.33		C
ATOM	1328	HA	SER	H	96	18.648	4.781	-8.733	1.00	0.33		H
ATOM	1329	C	SER	H	96	18.183	4.361	-6.691	1.00	0.33		C
ATOM	1330	CB	SER	H	96	20.424	4.057	-7.798	1.00	0.33		C
ATOM	1331	HB2	SER	H	96	20.159	2.999	-7.815	1.00	0.33		H
ATOM	1332	HB3	SER	H	96	20.989	4.291	-8.702	1.00	0.33		H
ATOM	1333	O	SER	H	96	17.371	3.497	-7.001	1.00	0.33		O
ATOM	1334	OG	SER	H	96	21.221	4.339	-6.660	1.00	0.33		O
ATOM	1335	HG	SER	H	96	21.778	3.574	-6.481	1.00	0.33		H
ATOM	1336	N	GLU	H	97	18.203	4.918	-5.473	1.00	0.34		N
ATOM	1337	H	GLU	H	97	18.876	5.649	-5.303	1.00	0.34		H
ATOM	1338	CA	GLU	H	97	17.293	4.569	-4.365	1.00	0.34		C
ATOM	1339	HA	GLU	H	97	17.361	3.496	-4.191	1.00	0.34		H
ATOM	1340	C	GLU	H	97	15.826	4.886	-4.703	1.00	0.34		C
ATOM	1341	CB	GLU	H	97	17.753	5.324	-3.096	1.00	0.34		C
ATOM	1342	HB2	GLU	H	97	17.278	6.304	-3.044	1.00	0.34		H
ATOM	1343	HB3	GLU	H	97	18.825	5.508	-3.193	1.00	0.34		H
ATOM	1344	O	GLU	H	97	14.904	4.175	-4.301	1.00	0.34		O
ATOM	1345	CG	GLU	H	97	17.571	4.554	-1.774	1.00	0.34		C
ATOM	1346	HG2	GLU	H	97	17.760	3.494	-1.956	1.00	0.34		H
ATOM	1347	HG3	GLU	H	97	18.349	4.895	-1.090	1.00	0.34		H
ATOM	1348	CD	GLU	H	97	16.222	4.729	-1.056	1.00	0.34		C
ATOM	1349	OE1	GLU	H	97	16.093	4.184	0.066	1.00	0.34		O
ATOM	1350	OE2	GLU	H	97	15.278	5.326	-1.617	1.00	0.34		O
ATOM	1351	N	ASP	H	98	15.603	5.924	-5.515	1.00	0.25		N
ATOM	1352	H	ASP	H	98	16.405	6.439	-5.856	1.00	0.25		H
ATOM	1353	CA	ASP	H	98	14.284	6.294	-6.027	1.00	0.25		C
ATOM	1354	HA	ASP	H	98	13.581	6.266	-5.195	1.00	0.25		H
ATOM	1355	C	ASP	H	98	13.741	5.338	-7.110	1.00	0.25		C
ATOM	1356	CB	ASP	H	98	14.307	7.737	-6.549	1.00	0.25		C
ATOM	1357	HB2	ASP	H	98	14.931	7.783	-7.440	1.00	0.25		H
ATOM	1358	HB3	ASP	H	98	13.297	8.029	-6.843	1.00	0.25		H
ATOM	1359	O	ASP	H	98	12.577	5.478	-7.492	1.00	0.25		O
ATOM	1360	CG	ASP	H	98	14.826	8.746	-5.530	1.00	0.25		C
ATOM	1361	OD1	ASP	H	98	14.117	9.073	-4.560	1.00	0.25		O
ATOM	1362	OD2	ASP	H	98	15.911	9.330	-5.754	1.00	0.25		O
ATOM	1363	N	THR	H	99	14.529	4.369	-7.601	1.00	0.23		N
ATOM	1364	H	THR	H	99	15.449	4.248	-7.190	1.00	0.23		H
ATOM	1365	CA	THR	H	99	14.063	3.360	-8.572	1.00	0.23		C
ATOM	1366	HA	THR	H	99	13.543	3.879	-9.372	1.00	0.23		H

ATOM	1367	C	THR H	99	13.085	2.387	-7.915	1.00	0.23	C
ATOM	1368	CB	THR H	99	15.230	2.589	-9.204	1.00	0.23	C
ATOM	1369	HB	THR H	99	15.841	2.144	-8.421	1.00	0.23	H
ATOM	1370	O	THR H	99	13.476	1.554	-7.098	1.00	0.23	O
ATOM	1371	CG2	THR H	99	14.807	1.472	-10.160	1.00	0.23	C
ATOM	1372	HG21	THR H	99	14.424	0.627	-9.589	1.00	0.23	H
ATOM	1373	HG22	THR H	99	15.671	1.136	-10.734	1.00	0.23	H
ATOM	1374	HG23	THR H	99	14.032	1.820	-10.837	1.00	0.23	H
ATOM	1375	OG1	THR H	99	16.017	3.494	-9.944	1.00	0.23	O
ATOM	1376	HG1	THR H	99	16.507	3.996	-9.284	1.00	0.23	H
ATOM	1377	N	ALA H	100	11.802	2.493	-8.259	1.00	0.18	N
ATOM	1378	H	ALA H	100	11.555	3.144	-8.995	1.00	0.18	H
ATOM	1379	CA	ALA H	100	10.718	1.773	-7.594	1.00	0.18	C
ATOM	1380	HA	ALA H	100	11.007	0.731	-7.451	1.00	0.18	H
ATOM	1381	C	ALA H	100	9.422	1.806	-8.419	1.00	0.18	C
ATOM	1382	CB	ALA H	100	10.497	2.421	-6.219	1.00	0.18	C
ATOM	1383	HB1	ALA H	100	9.688	1.924	-5.687	1.00	0.18	H
ATOM	1384	HB2	ALA H	100	11.404	2.350	-5.623	1.00	0.18	H
ATOM	1385	HB3	ALA H	100	10.243	3.470	-6.343	1.00	0.18	H
ATOM	1386	O	ALA H	100	9.284	2.575	-9.372	1.00	0.18	O
ATOM	1387	N	VAL H	101	8.440	0.995	-8.027	1.00	0.19	N
ATOM	1388	H	VAL H	101	8.607	0.409	-7.213	1.00	0.19	H
ATOM	1389	CA	VAL H	101	7.037	1.207	-8.403	1.00	0.19	C
ATOM	1390	HA	VAL H	101	6.992	1.633	-9.403	1.00	0.19	H
ATOM	1391	C	VAL H	101	6.416	2.210	-7.434	1.00	0.19	C
ATOM	1392	CB	VAL H	101	6.241	-0.112	-8.415	1.00	0.19	C
ATOM	1393	HB	VAL H	101	6.272	-0.566	-7.424	1.00	0.19	H
ATOM	1394	O	VAL H	101	6.586	2.098	-6.224	1.00	0.19	O
ATOM	1395	CG1	VAL H	101	4.774	0.118	-8.807	1.00	0.19	C
ATOM	1396	HG11	VAL H	101	4.261	-0.840	-8.892	1.00	0.19	H
ATOM	1397	HG12	VAL H	101	4.262	0.699	-8.040	1.00	0.19	H
ATOM	1398	HG13	VAL H	101	4.715	0.637	-9.764	1.00	0.19	H
ATOM	1399	CG2	VAL H	101	6.832	-1.103	-9.427	1.00	0.19	C
ATOM	1400	HG21	VAL H	101	7.857	-1.352	-9.155	1.00	0.19	H
ATOM	1401	HG22	VAL H	101	6.811	-0.669	-10.424	1.00	0.19	H
ATOM	1402	HG23	VAL H	101	6.245	-2.023	-9.422	1.00	0.19	H
ATOM	1403	N	TYR H	102	5.678	3.184	-7.953	1.00	0.09	N
ATOM	1404	H	TYR H	102	5.659	3.287	-8.961	1.00	0.09	H
ATOM	1405	CA	TYR H	102	4.937	4.163	-7.160	1.00	0.09	C
ATOM	1406	HA	TYR H	102	5.144	4.028	-6.097	1.00	0.09	H
ATOM	1407	C	TYR H	102	3.441	3.974	-7.382	1.00	0.09	C
ATOM	1408	CB	TYR H	102	5.396	5.571	-7.552	1.00	0.09	C
ATOM	1409	HB2	TYR H	102	5.309	5.686	-8.633	1.00	0.09	H

ATOM	1410	HB3	TYR	H	102	4.731	6.301	-7.087	1.00	0.09		H
ATOM	1411	O	TYR	H	102	2.964	4.122	-8.507	1.00	0.09		O
ATOM	1412	CG	TYR	H	102	6.821	5.866	-7.129	1.00	0.09		C
ATOM	1413	CD1	TYR	H	102	7.907	5.452	-7.925	1.00	0.09		C
ATOM	1414	HD1	TYR	H	102	7.733	4.943	-8.865	1.00	0.09		H
ATOM	1415	CD2	TYR	H	102	7.056	6.499	-5.896	1.00	0.09		C
ATOM	1416	HD2	TYR	H	102	6.216	6.799	-5.292	1.00	0.09		H
ATOM	1417	CE1	TYR	H	102	9.223	5.657	-7.472	1.00	0.09		C
ATOM	1418	HE1	TYR	H	102	10.059	5.298	-8.048	1.00	0.09		H
ATOM	1419	CE2	TYR	H	102	8.373	6.720	-5.449	1.00	0.09		C
ATOM	1420	HE2	TYR	H	102	8.565	7.201	-4.503	1.00	0.09		H
ATOM	1421	OH	TYR	H	102	10.733	6.459	-5.796	1.00	0.09		O
ATOM	1422	HH	TYR	H	102	11.371	6.144	-6.464	1.00	0.09		H
ATOM	1423	CZ	TYR	H	102	9.461	6.292	-6.237	1.00	0.09		C
ATOM	1424	N	TYR	H	103	2.698	3.662	-6.325	1.00	0.11		N
ATOM	1425	H	TYR	H	103	3.159	3.557	-5.426	1.00	0.11		H
ATOM	1426	CA	TYR	H	103	1.237	3.608	-6.331	1.00	0.11		C
ATOM	1427	HA	TYR	H	103	0.886	3.439	-7.347	1.00	0.11		H
ATOM	1428	C	TYR	H	103	0.647	4.914	-5.811	1.00	0.11		C
ATOM	1429	CB	TYR	H	103	0.728	2.448	-5.470	1.00	0.11		C
ATOM	1430	HB2	TYR	H	103	-0.358	2.408	-5.558	1.00	0.11		H
ATOM	1431	HB3	TYR	H	103	0.965	2.649	-4.424	1.00	0.11		H
ATOM	1432	O	TYR	H	103	1.128	5.462	-4.817	1.00	0.11		O
ATOM	1433	CG	TYR	H	103	1.293	1.100	-5.852	1.00	0.11		C
ATOM	1434	CD1	TYR	H	103	0.776	0.406	-6.963	1.00	0.11		C
ATOM	1435	HD1	TYR	H	103	-0.045	0.825	-7.528	1.00	0.11		H
ATOM	1436	CD2	TYR	H	103	2.352	0.553	-5.105	1.00	0.11		C
ATOM	1437	HD2	TYR	H	103	2.754	1.088	-4.255	1.00	0.11		H
ATOM	1438	CE1	TYR	H	103	1.339	-0.825	-7.350	1.00	0.11		C
ATOM	1439	HE1	TYR	H	103	0.970	-1.351	-8.218	1.00	0.11		H
ATOM	1440	CE2	TYR	H	103	2.895	-0.688	-5.473	1.00	0.11		C
ATOM	1441	HE2	TYR	H	103	3.695	-1.111	-4.894	1.00	0.11		H
ATOM	1442	OH	TYR	H	103	2.968	-2.547	-6.978	1.00	0.11		O
ATOM	1443	HH	TYR	H	103	3.659	-2.812	-6.349	1.00	0.11		H
ATOM	1444	CZ	TYR	H	103	2.403	-1.373	-6.604	1.00	0.11		C
ATOM	1445	N	CYS	H	104	-0.438	5.371	-6.423	1.00	0.09		N
ATOM	1446	H	CYS	H	104	-0.759	4.877	-7.251	1.00	0.09		H
ATOM	1447	CA	CYS	H	104	-1.417	6.187	-5.718	1.00	0.09		C
ATOM	1448	HA	CYS	H	104	-0.921	6.750	-4.928	1.00	0.09		H
ATOM	1449	C	CYS	H	104	-2.476	5.283	-5.078	1.00	0.09		C
ATOM	1450	CB	CYS	H	104	-2.045	7.199	-6.671	1.00	0.09		C
ATOM	1451	HB2	CYS	H	104	-2.699	7.849	-6.090	1.00	0.09		H
ATOM	1452	HB3	CYS	H	104	-1.253	7.813	-7.098	1.00	0.09		H

ATOM	1453	O	CYS	H	104	-2.795	4.215	-5.609	1.00	0.09	O
ATOM	1454	SG	CYS	H	104	-3.011	6.482	-8.019	1.00	0.09	S
ATOM	1455	N	ALA	H	105	-3.049	5.725	-3.962	1.00	0.17	N
ATOM	1456	H	ALA	H	105	-2.728	6.594	-3.549	1.00	0.17	H
ATOM	1457	CA	ALA	H	105	-4.167	5.040	-3.335	1.00	0.17	C
ATOM	1458	HA	ALA	H	105	-4.716	4.521	-4.118	1.00	0.17	H
ATOM	1459	C	ALA	H	105	-5.141	6.021	-2.682	1.00	0.17	C
ATOM	1460	CB	ALA	H	105	-3.650	3.979	-2.359	1.00	0.17	C
ATOM	1461	HB1	ALA	H	105	-2.890	3.362	-2.840	1.00	0.17	H
ATOM	1462	HB2	ALA	H	105	-4.482	3.332	-2.086	1.00	0.17	H
ATOM	1463	HB3	ALA	H	105	-3.229	4.450	-1.471	1.00	0.17	H
ATOM	1464	O	ALA	H	105	-4.751	7.047	-2.118	1.00	0.17	O
ATOM	1465	N	ARG	H	106	-6.424	5.692	-2.773	1.00	0.23	N
ATOM	1466	H	ARG	H	106	-6.636	4.802	-3.213	1.00	0.23	H
ATOM	1467	CA	ARG	H	106	-7.513	6.378	-2.094	1.00	0.23	C
ATOM	1468	HA	ARG	H	106	-7.319	7.453	-2.094	1.00	0.23	H
ATOM	1469	C	ARG	H	106	-7.608	5.889	-0.655	1.00	0.23	C
ATOM	1470	CB	ARG	H	106	-8.820	6.082	-2.839	1.00	0.23	C
ATOM	1471	HB2	ARG	H	106	-8.648	6.122	-3.916	1.00	0.23	H
ATOM	1472	HB3	ARG	H	106	-9.145	5.072	-2.590	1.00	0.23	H
ATOM	1473	O	ARG	H	106	-7.333	4.729	-0.356	1.00	0.23	O
ATOM	1474	CG	ARG	H	106	-9.920	7.094	-2.502	1.00	0.23	C
ATOM	1475	HG2	ARG	H	106	-9.922	7.354	-1.446	1.00	0.23	H
ATOM	1476	HG3	ARG	H	106	-9.729	8.001	-3.077	1.00	0.23	H
ATOM	1477	CD	ARG	H	106	-11.297	6.551	-2.869	1.00	0.23	C
ATOM	1478	HD2	ARG	H	106	-11.931	7.417	-3.049	1.00	0.23	H
ATOM	1479	HD3	ARG	H	106	-11.213	5.964	-3.784	1.00	0.23	H
ATOM	1480	NE	ARG	H	106	-11.877	5.715	-1.797	1.00	0.23	N
ATOM	1481	HE	ARG	H	106	-11.236	5.089	-1.298	1.00	0.23	H
ATOM	1482	NH1	ARG	H	106	-14.085	6.306	-2.042	1.00	0.23	N
ATOM	1483	HH11	ARG	H	106	-13.832	6.847	-2.848	1.00	0.23	H
ATOM	1484	HH12	ARG	H	106	-15.027	6.277	-1.710	1.00	0.23	H
ATOM	1485	NH2	ARG	H	106	-13.503	4.957	-0.392	1.00	0.23	N
ATOM	1486	HH21	ARG	H	106	-14.450	4.901	-0.087	1.00	0.23	H
ATOM	1487	HH22	ARG	H	106	-12.774	4.475	0.148	1.00	0.23	H
ATOM	1488	CZ	ARG	H	106	-13.141	5.659	-1.419	1.00	0.23	C
ATOM	1489	N	GLY	H	107	-8.071	6.766	0.218	1.00	0.43	N
ATOM	1490	H	GLY	H	107	-8.145	7.739	-0.058	1.00	0.43	H
ATOM	1491	CA	GLY	H	107	-8.625	6.386	1.504	1.00	0.43	C
ATOM	1492	HA2	GLY	H	107	-9.422	5.654	1.357	1.00	0.43	H
ATOM	1493	HA3	GLY	H	107	-7.847	5.931	2.119	1.00	0.43	H
ATOM	1494	C	GLY	H	107	-9.190	7.598	2.229	1.00	0.43	C
ATOM	1495	O	GLY	H	107	-9.161	8.726	1.737	1.00	0.43	O

ATOM	1496	N	VAL H	108	-9.683	7.366	3.438	1.00	1.45		N
ATOM	1497	H	VAL H	108	-9.711	6.403	3.740	1.00	1.45		H
ATOM	1498	CA	VAL H	108	-9.994	8.429	4.410	1.00	1.45		C
ATOM	1499	HA	VAL H	108	-9.413	9.321	4.175	1.00	1.45		H
ATOM	1500	C	VAL H	108	-9.567	7.976	5.800	1.00	1.45		C
ATOM	1501	CB	VAL H	108	-11.491	8.817	4.392	1.00	1.45		C
ATOM	1502	HB	VAL H	108	-12.093	7.919	4.543	1.00	1.45		H
ATOM	1503	O	VAL H	108	-8.801	8.658	6.474	1.00	1.45		O
ATOM	1504	CG1	VAL H	108	-11.840	9.819	5.502	1.00	1.45		C
ATOM	1505	HG11	VAL H	108	-12.886	10.115	5.417	1.00	1.45		H
ATOM	1506	HG12	VAL H	108	-11.211	10.705	5.418	1.00	1.45		H
ATOM	1507	HG13	VAL H	108	-11.702	9.369	6.485	1.00	1.45		H
ATOM	1508	CG2	VAL H	108	-11.903	9.456	3.064	1.00	1.45		C
ATOM	1509	HG21	VAL H	108	-11.289	10.336	2.881	1.00	1.45		H
ATOM	1510	HG22	VAL H	108	-12.952	9.754	3.096	1.00	1.45		H
ATOM	1511	HG23	VAL H	108	-11.780	8.743	2.251	1.00	1.45		H
ATOM	1512	N	PHE H	109	-10.027	6.790	6.204	1.00	0.81		N
ATOM	1513	H	PHE H	109	-10.691	6.317	5.609	1.00	0.81		H
ATOM	1514	CA	PHE H	109	-9.848	6.234	7.551	1.00	0.81		C
ATOM	1515	HA	PHE H	109	-10.069	7.018	8.277	1.00	0.81		H
ATOM	1516	C	PHE H	109	-8.430	5.731	7.862	1.00	0.81		C
ATOM	1517	CB	PHE H	109	-10.868	5.101	7.735	1.00	0.81		C
ATOM	1518	HB2	PHE H	109	-10.893	4.811	8.786	1.00	0.81		H
ATOM	1519	HB3	PHE H	109	-10.527	4.238	7.162	1.00	0.81		H
ATOM	1520	O	PHE H	109	-8.142	5.397	9.008	1.00	0.81		O
ATOM	1521	CG	PHE H	109	-12.274	5.462	7.290	1.00	0.81		C
ATOM	1522	CD1	PHE H	109	-13.010	6.429	8.001	1.00	0.81		C
ATOM	1523	HD1	PHE H	109	-12.593	6.884	8.887	1.00	0.81		H
ATOM	1524	CD2	PHE H	109	-12.821	4.881	6.129	1.00	0.81		C
ATOM	1525	HD2	PHE H	109	-12.263	4.139	5.573	1.00	0.81		H
ATOM	1526	CE1	PHE H	109	-14.287	6.814	7.553	1.00	0.81		C
ATOM	1527	HE1	PHE H	109	-14.851	7.557	8.098	1.00	0.81		H
ATOM	1528	CE2	PHE H	109	-14.098	5.264	5.684	1.00	0.81		C
ATOM	1529	HE2	PHE H	109	-14.518	4.811	4.797	1.00	0.81		H
ATOM	1530	CZ	PHE H	109	-14.830	6.232	6.394	1.00	0.81		C
ATOM	1531	HZ	PHE H	109	-15.813	6.525	6.052	1.00	0.81		H
ATOM	1532	N	GLY H	113	-7.557	5.667	6.855	1.00	0.55		N
ATOM	1533	H	GLY H	113	-7.881	5.952	5.944	1.00	0.55		H
ATOM	1534	CA	GLY H	113	-6.133	5.363	6.994	1.00	0.55		C
ATOM	1535	HA2	GLY H	113	-5.573	6.106	6.428	1.00	0.55		H
ATOM	1536	HA3	GLY H	113	-5.843	5.466	8.037	1.00	0.55		H
ATOM	1537	C	GLY H	113	-5.705	3.985	6.479	1.00	0.55		C
ATOM	1538	O	GLY H	113	-4.517	3.787	6.225	1.00	0.55		O

ATOM	1539	N	PHE	H	114	-6.643	3.065	6.245	1.00	0.39	N
ATOM	1540	H	PHE	H	114	-7.595	3.290	6.485	1.00	0.39	H
ATOM	1541	CA	PHE	H	114	-6.446	2.000	5.259	1.00	0.39	C
ATOM	1542	HA	PHE	H	114	-5.407	1.664	5.295	1.00	0.39	H
ATOM	1543	C	PHE	H	114	-6.695	2.542	3.842	1.00	0.39	C
ATOM	1544	CB	PHE	H	114	-7.327	0.790	5.593	1.00	0.39	C
ATOM	1545	HB2	PHE	H	114	-7.159	0.014	4.845	1.00	0.39	H
ATOM	1546	HB3	PHE	H	114	-6.990	0.389	6.548	1.00	0.39	H
ATOM	1547	O	PHE	H	114	-7.360	3.570	3.670	1.00	0.39	O
ATOM	1548	CG	PHE	H	114	-8.817	1.059	5.692	1.00	0.39	C
ATOM	1549	CD1	PHE	H	114	-9.631	0.978	4.548	1.00	0.39	C
ATOM	1550	HD1	PHE	H	114	-9.197	0.772	3.581	1.00	0.39	H
ATOM	1551	CD2	PHE	H	114	-9.399	1.336	6.944	1.00	0.39	C
ATOM	1552	HD2	PHE	H	114	-8.777	1.408	7.822	1.00	0.39	H
ATOM	1553	CE1	PHE	H	114	-11.023	1.132	4.661	1.00	0.39	C
ATOM	1554	HE1	PHE	H	114	-11.650	1.029	3.785	1.00	0.39	H
ATOM	1555	CE2	PHE	H	114	-10.792	1.486	7.058	1.00	0.39	C
ATOM	1556	HE2	PHE	H	114	-11.245	1.667	8.022	1.00	0.39	H
ATOM	1557	CZ	PHE	H	114	-11.605	1.373	5.917	1.00	0.39	C
ATOM	1558	HZ	PHE	H	114	-12.680	1.454	6.004	1.00	0.39	H
ATOM	1559	N	PHE	H	115	-6.133	1.867	2.841	1.00	0.21	N
ATOM	1560	H	PHE	H	115	-5.596	1.034	3.052	1.00	0.21	H
ATOM	1561	CA	PHE	H	115	-6.115	2.314	1.450	1.00	0.21	C
ATOM	1562	HA	PHE	H	115	-6.534	3.316	1.395	1.00	0.21	H
ATOM	1563	C	PHE	H	115	-6.998	1.393	0.605	1.00	0.21	C
ATOM	1564	CB	PHE	H	115	-4.659	2.395	0.968	1.00	0.21	C
ATOM	1565	HB2	PHE	H	115	-4.290	1.382	0.809	1.00	0.21	H
ATOM	1566	HB3	PHE	H	115	-4.650	2.909	0.014	1.00	0.21	H
ATOM	1567	O	PHE	H	115	-6.628	0.258	0.305	1.00	0.21	O
ATOM	1568	CG	PHE	H	115	-3.697	3.110	1.909	1.00	0.21	C
ATOM	1569	CD1	PHE	H	115	-4.086	4.280	2.592	1.00	0.21	C
ATOM	1570	HD1	PHE	H	115	-5.059	4.716	2.415	1.00	0.21	H
ATOM	1571	CD2	PHE	H	115	-2.431	2.552	2.165	1.00	0.21	C
ATOM	1572	HD2	PHE	H	115	-2.136	1.646	1.660	1.00	0.21	H
ATOM	1573	CE1	PHE	H	115	-3.242	4.842	3.564	1.00	0.21	C
ATOM	1574	HE1	PHE	H	115	-3.592	5.679	4.147	1.00	0.21	H
ATOM	1575	CE2	PHE	H	115	-1.571	3.139	3.110	1.00	0.21	C
ATOM	1576	HE2	PHE	H	115	-0.617	2.686	3.335	1.00	0.21	H
ATOM	1577	CZ	PHE	H	115	-1.982	4.276	3.820	1.00	0.21	C
ATOM	1578	HZ	PHE	H	115	-1.340	4.682	4.587	1.00	0.21	H
ATOM	1579	N	ASP	H	116	-8.208	1.853	0.300	1.00	0.31	N
ATOM	1580	H	ASP	H	116	-8.395	2.840	0.438	1.00	0.31	H
ATOM	1581	CA	ASP	H	116	-9.301	1.009	-0.197	1.00	0.31	C

ATOM	1582	HA	ASP H 116	-9.190	0.012	0.231	1.00	0.31		H
ATOM	1583	C	ASP H 116	-9.275	0.798	-1.721	1.00	0.31		C
ATOM	1584	CB	ASP H 116	-10.646	1.559	0.315	1.00	0.31		C
ATOM	1585	HB2	ASP H 116	-11.459	1.064	-0.217	1.00	0.31		H
ATOM	1586	HB3	ASP H 116	-10.732	1.285	1.368	1.00	0.31		H
ATOM	1587	O	ASP H 116	-9.630	-0.282	-2.190	1.00	0.31		O
ATOM	1588	CG	ASP H 116	-10.832	3.079	0.208	1.00	0.31		C
ATOM	1589	OD1	ASP H 116	-10.286	3.724	-0.713	1.00	0.31		O
ATOM	1590	OD2	ASP H 116	-11.599	3.650	1.012	1.00	0.31		O
ATOM	1591	N	TYR H 117	-8.782	1.773	-2.492	1.00	0.30		N
ATOM	1592	H	TYR H 117	-8.542	2.644	-2.033	1.00	0.30		H
ATOM	1593	CA	TYR H 117	-8.592	1.665	-3.945	1.00	0.30		C
ATOM	1594	HA	TYR H 117	-8.701	0.621	-4.241	1.00	0.30		H
ATOM	1595	C	TYR H 117	-7.190	2.116	-4.350	1.00	0.30		C
ATOM	1596	CB	TYR H 117	-9.660	2.471	-4.700	1.00	0.30		C
ATOM	1597	HB2	TYR H 117	-9.396	2.490	-5.759	1.00	0.30		H
ATOM	1598	HB3	TYR H 117	-9.652	3.502	-4.347	1.00	0.30		H
ATOM	1599	O	TYR H 117	-6.763	3.208	-3.988	1.00	0.30		O
ATOM	1600	CG	TYR H 117	-11.064	1.910	-4.571	1.00	0.30		C
ATOM	1601	CD1	TYR H 117	-11.543	0.985	-5.519	1.00	0.30		C
ATOM	1602	HD1	TYR H 117	-10.923	0.689	-6.354	1.00	0.30		H
ATOM	1603	CD2	TYR H 117	-11.879	2.290	-3.487	1.00	0.30		C
ATOM	1604	HD2	TYR H 117	-11.497	2.982	-2.751	1.00	0.30		H
ATOM	1605	CE1	TYR H 117	-12.828	0.429	-5.374	1.00	0.30		C
ATOM	1606	HE1	TYR H 117	-13.199	-0.287	-6.091	1.00	0.30		H
ATOM	1607	CE2	TYR H 117	-13.163	1.734	-3.335	1.00	0.30		C
ATOM	1608	HE2	TYR H 117	-13.772	2.008	-2.489	1.00	0.30		H
ATOM	1609	OH	TYR H 117	-14.871	0.250	-4.137	1.00	0.30		O
ATOM	1610	HH	TYR H 117	-15.149	0.243	-3.220	1.00	0.30		H
ATOM	1611	CZ	TYR H 117	-13.637	0.799	-4.280	1.00	0.30		C
ATOM	1612	N	TRP H 118	-6.492	1.294	-5.131	1.00	0.17		N
ATOM	1613	H	TRP H 118	-6.928	0.442	-5.449	1.00	0.17		H
ATOM	1614	CA	TRP H 118	-5.121	1.539	-5.589	1.00	0.17		C
ATOM	1615	HA	TRP H 118	-4.723	2.435	-5.113	1.00	0.17		H
ATOM	1616	C	TRP H 118	-5.089	1.764	-7.103	1.00	0.17		C
ATOM	1617	CB	TRP H 118	-4.220	0.365	-5.177	1.00	0.17		C
ATOM	1618	HB2	TRP H 118	-4.635	-0.561	-5.577	1.00	0.17		H
ATOM	1619	HB3	TRP H 118	-3.245	0.508	-5.645	1.00	0.17		H
ATOM	1620	O	TRP H 118	-5.898	1.196	-7.837	1.00	0.17		O
ATOM	1621	CG	TRP H 118	-3.996	0.189	-3.701	1.00	0.17		C
ATOM	1622	CD1	TRP H 118	-4.950	-0.051	-2.772	1.00	0.17		C
ATOM	1623	HD1	TRP H 118	-6.009	-0.151	-2.968	1.00	0.17		H
ATOM	1624	CD2	TRP H 118	-2.733	0.206	-2.963	1.00	0.17		C

ATOM	1625	CE2	TRP	H	118	-3.005	-0.047	-1.585	1.00	0.17	C
ATOM	1626	CE3	TRP	H	118	-1.381	0.386	-3.325	1.00	0.17	C
ATOM	1627	HE3	TRP	H	118	-1.141	0.560	-4.362	1.00	0.17	H
ATOM	1628	NE1	TRP	H	118	-4.378	-0.147	-1.523	1.00	0.17	N
ATOM	1629	HE1	TRP	H	118	-4.938	-0.252	-0.681	1.00	0.17	H
ATOM	1630	CH2	TRP	H	118	-0.649	0.020	-1.025	1.00	0.17	C
ATOM	1631	HH2	TRP	H	118	0.152	-0.081	-0.309	1.00	0.17	H
ATOM	1632	CZ2	TRP	H	118	-1.987	-0.148	-0.624	1.00	0.17	C
ATOM	1633	HZ2	TRP	H	118	-2.232	-0.373	0.402	1.00	0.17	H
ATOM	1634	CZ3	TRP	H	118	-0.350	0.299	-2.370	1.00	0.17	C
ATOM	1635	HZ3	TRP	H	118	0.679	0.420	-2.679	1.00	0.17	H
ATOM	1636	N	GLY	H	119	-4.154	2.590	-7.573	1.00	0.14	N
ATOM	1637	H	GLY	H	119	-3.534	3.041	-6.908	1.00	0.14	H
ATOM	1638	CA	GLY	H	119	-3.785	2.643	-8.988	1.00	0.14	C
ATOM	1639	HA2	GLY	H	119	-3.239	3.561	-9.189	1.00	0.14	H
ATOM	1640	HA3	GLY	H	119	-4.680	2.629	-9.609	1.00	0.14	H
ATOM	1641	C	GLY	H	119	-2.919	1.449	-9.382	1.00	0.14	C
ATOM	1642	O	GLY	H	119	-2.389	0.745	-8.523	1.00	0.14	O
ATOM	1643	N	GLN	H	120	-2.739	1.217	-10.684	1.00	0.14	N
ATOM	1644	H	GLN	H	120	-3.167	1.836	-11.365	1.00	0.14	H
ATOM	1645	CA	GLN	H	120	-1.973	0.067	-11.183	1.00	0.14	C
ATOM	1646	HA	GLN	H	120	-2.347	-0.813	-10.658	1.00	0.14	H
ATOM	1647	C	GLN	H	120	-0.464	0.134	-10.879	1.00	0.14	C
ATOM	1648	CB	GLN	H	120	-2.259	-0.151	-12.683	1.00	0.14	C
ATOM	1649	HB2	GLN	H	120	-2.059	-1.204	-12.889	1.00	0.14	H
ATOM	1650	HB3	GLN	H	120	-3.320	0.011	-12.882	1.00	0.14	H
ATOM	1651	O	GLN	H	120	0.249	-0.840	-11.109	1.00	0.14	O
ATOM	1652	CG	GLN	H	120	-1.419	0.661	-13.690	1.00	0.14	C
ATOM	1653	HG2	GLN	H	120	-0.358	0.539	-13.478	1.00	0.14	H
ATOM	1654	HG3	GLN	H	120	-1.588	0.227	-14.676	1.00	0.14	H
ATOM	1655	CD	GLN	H	120	-1.741	2.150	-13.798	1.00	0.14	C
ATOM	1656	NE2	GLN	H	120	-1.061	2.848	-14.682	1.00	0.14	N
ATOM	1657	HE21	GLN	H	120	-0.249	2.441	-15.111	1.00	0.14	H
ATOM	1658	HE22	GLN	H	120	-1.271	3.831	-14.796	1.00	0.14	H
ATOM	1659	OE1	GLN	H	120	-2.610	2.705	-13.138	1.00	0.14	O
ATOM	1660	N	GLY	H	121	0.019	1.269	-10.367	1.00	0.08	N
ATOM	1661	H	GLY	H	121	-0.637	2.001	-10.141	1.00	0.08	H
ATOM	1662	CA	GLY	H	121	1.433	1.548	-10.163	1.00	0.08	C
ATOM	1663	HA2	GLY	H	121	1.529	2.225	-9.317	1.00	0.08	H
ATOM	1664	HA3	GLY	H	121	1.964	0.628	-9.914	1.00	0.08	H
ATOM	1665	C	GLY	H	121	2.097	2.173	-11.389	1.00	0.08	C
ATOM	1666	O	GLY	H	121	1.694	1.964	-12.534	1.00	0.08	O
ATOM	1667	N	THR	H	122	3.147	2.948	-11.133	1.00	0.12	N

ATOM	1668	H	THR H 122	3.347	3.163	-10.163	1.00	0.12		H
ATOM	1669	CA	THR H 122	4.013	3.542	-12.151	1.00	0.12		C
ATOM	1670	HA	THR H 122	3.774	3.129	-13.130	1.00	0.12		H
ATOM	1671	C	THR H 122	5.456	3.191	-11.812	1.00	0.12		C
ATOM	1672	CB	THR H 122	3.821	5.066	-12.221	1.00	0.12		C
ATOM	1673	HB	THR H 122	4.047	5.499	-11.246	1.00	0.12		H
ATOM	1674	O	THR H 122	5.972	3.623	-10.782	1.00	0.12		O
ATOM	1675	CG2	THR H 122	4.730	5.697	-13.268	1.00	0.12		C
ATOM	1676	HG21	THR H 122	4.701	5.105	-14.180	1.00	0.12		H
ATOM	1677	HG22	THR H 122	4.397	6.710	-13.491	1.00	0.12		H
ATOM	1678	HG23	THR H 122	5.757	5.733	-12.902	1.00	0.12		H
ATOM	1679	OG1	THR H 122	2.493	5.414	-12.555	1.00	0.12		O
ATOM	1680	HG1	THR H 122	2.360	5.254	-13.506	1.00	0.12		H
ATOM	1681	N	THR H 123	6.107	2.382	-12.649	1.00	0.11		N
ATOM	1682	H	THR H 123	5.618	1.986	-13.438	1.00	0.11		H
ATOM	1683	CA	THR H 123	7.537	2.075	-12.511	1.00	0.11		C
ATOM	1684	HA	THR H 123	7.752	1.809	-11.477	1.00	0.11		H
ATOM	1685	C	THR H 123	8.366	3.298	-12.883	1.00	0.11		C
ATOM	1686	CB	THR H 123	7.941	0.898	-13.410	1.00	0.11		C
ATOM	1687	HB	THR H 123	7.815	1.185	-14.455	1.00	0.11		H
ATOM	1688	O	THR H 123	8.205	3.834	-13.977	1.00	0.11		O
ATOM	1689	CG2	THR H 123	9.383	0.444	-13.188	1.00	0.11		C
ATOM	1690	HG21	THR H 123	9.583	-0.445	-13.788	1.00	0.11		H
ATOM	1691	HG22	THR H 123	10.074	1.227	-13.502	1.00	0.11		H
ATOM	1692	HG23	THR H 123	9.555	0.219	-12.135	1.00	0.11		H
ATOM	1693	OG1	THR H 123	7.113	-0.211	-13.154	1.00	0.11		O
ATOM	1694	HG1	THR H 123	7.439	-0.649	-12.365	1.00	0.11		H
ATOM	1695	N	LEU H 124	9.262	3.713	-11.995	1.00	0.13		N
ATOM	1696	H	LEU H 124	9.303	3.242	-11.095	1.00	0.13		H
ATOM	1697	CA	LEU H 124	10.267	4.743	-12.229	1.00	0.13		C
ATOM	1698	HA	LEU H 124	10.104	5.216	-13.199	1.00	0.13		H
ATOM	1699	C	LEU H 124	11.649	4.090	-12.214	1.00	0.13		C
ATOM	1700	CB	LEU H 124	10.125	5.800	-11.121	1.00	0.13		C
ATOM	1701	HB2	LEU H 124	10.225	5.283	-10.171	1.00	0.13		H
ATOM	1702	HB3	LEU H 124	9.124	6.232	-11.165	1.00	0.13		H
ATOM	1703	O	LEU H 124	12.035	3.502	-11.204	1.00	0.13		O
ATOM	1704	CG	LEU H 124	11.168	6.930	-11.152	1.00	0.13		C
ATOM	1705	HG	LEU H 124	12.176	6.515	-11.132	1.00	0.13		H
ATOM	1706	CD1	LEU H 124	11.005	7.779	-12.409	1.00	0.13		C
ATOM	1707	HD11	LEU H 124	9.965	8.085	-12.521	1.00	0.13		H
ATOM	1708	HD12	LEU H 124	11.313	7.208	-13.284	1.00	0.13		H
ATOM	1709	HD13	LEU H 124	11.629	8.664	-12.339	1.00	0.13		H
ATOM	1710	CD2	LEU H 124	10.998	7.830	-9.927	1.00	0.13		C

ATOM	1711	HD21	LEU	H	124	9.984	8.225	-9.887	1.00	0.13	H
ATOM	1712	HD22	LEU	H	124	11.193	7.252	-9.023	1.00	0.13	H
ATOM	1713	HD23	LEU	H	124	11.714	8.650	-9.966	1.00	0.13	H
ATOM	1714	N	THR	H	125	12.392	4.205	-13.311	1.00	0.28	N
ATOM	1715	H	THR	H	125	11.992	4.680	-14.117	1.00	0.28	H
ATOM	1716	CA	THR	H	125	13.782	3.738	-13.409	1.00	0.28	C
ATOM	1717	HA	THR	H	125	14.034	3.124	-12.548	1.00	0.28	H
ATOM	1718	C	THR	H	125	14.725	4.932	-13.438	1.00	0.28	C
ATOM	1719	CB	THR	H	125	13.979	2.877	-14.663	1.00	0.28	C
ATOM	1720	HB	THR	H	125	13.791	3.486	-15.547	1.00	0.28	H
ATOM	1721	O	THR	H	125	14.596	5.786	-14.315	1.00	0.28	O
ATOM	1722	CG2	THR	H	125	15.383	2.278	-14.751	1.00	0.28	C
ATOM	1723	HG21	THR	H	125	15.603	1.714	-13.844	1.00	0.28	H
ATOM	1724	HG22	THR	H	125	16.123	3.068	-14.878	1.00	0.28	H
ATOM	1725	HG23	THR	H	125	15.436	1.609	-15.610	1.00	0.28	H
ATOM	1726	OG1	THR	H	125	13.061	1.811	-14.655	1.00	0.28	O
ATOM	1727	HG1	THR	H	125	12.187	2.206	-14.728	1.00	0.28	H
ATOM	1728	N	VAL	H	126	15.682	4.997	-12.508	1.00	0.27	N
ATOM	1729	H	VAL	H	126	15.733	4.279	-11.789	1.00	0.27	H
ATOM	1730	CA	VAL	H	126	16.688	6.067	-12.470	1.00	0.27	C
ATOM	1731	HA	VAL	H	126	16.372	6.860	-13.141	1.00	0.27	H
ATOM	1732	C	VAL	H	126	18.032	5.537	-12.969	1.00	0.27	C
ATOM	1733	CB	VAL	H	126	16.791	6.718	-11.078	1.00	0.27	C
ATOM	1734	HB	VAL	H	126	17.195	6.000	-10.364	1.00	0.27	H
ATOM	1735	O	VAL	H	126	18.714	4.796	-12.265	1.00	0.27	O
ATOM	1736	CG1	VAL	H	126	17.721	7.938	-11.140	1.00	0.27	C
ATOM	1737	HG11	VAL	H	126	17.752	8.426	-10.169	1.00	0.27	H
ATOM	1738	HG12	VAL	H	126	18.731	7.625	-11.400	1.00	0.27	H
ATOM	1739	HG13	VAL	H	126	17.354	8.647	-11.884	1.00	0.27	H
ATOM	1740	CG2	VAL	H	126	15.417	7.188	-10.578	1.00	0.27	C
ATOM	1741	HG21	VAL	H	126	14.767	6.330	-10.406	1.00	0.27	H
ATOM	1742	HG22	VAL	H	126	15.531	7.713	-9.633	1.00	0.27	H
ATOM	1743	HG23	VAL	H	126	14.955	7.851	-11.308	1.00	0.27	H
ATOM	1744	N	SER	H	127	18.421	5.926	-14.185	1.00	0.29	N
ATOM	1745	H	SER	H	127	17.827	6.586	-14.679	1.00	0.29	H
ATOM	1746	CA	SER	H	127	19.652	5.475	-14.853	1.00	0.29	C
ATOM	1747	HA	SER	H	127	20.377	5.162	-14.101	1.00	0.29	H
ATOM	1748	C	SER	H	127	20.272	6.582	-15.696	1.00	0.29	C
ATOM	1749	CB	SER	H	127	19.378	4.277	-15.770	1.00	0.29	C
ATOM	1750	HB2	SER	H	127	19.025	3.439	-15.168	1.00	0.29	H
ATOM	1751	HB3	SER	H	127	18.604	4.541	-16.491	1.00	0.29	H
ATOM	1752	O	SER	H	127	19.559	7.309	-16.395	1.00	0.29	O
ATOM	1753	OG	SER	H	127	20.553	3.890	-16.471	1.00	0.29	O

ATOM	1754	HG	SER H	127	20.795	4.551	-17.158	1.00	0.29		H
ATOM	1755	N	SER H	128	21.608	6.652	-15.705	1.00	0.28		N
ATOM	1756	H	SER H	128	22.114	5.945	-15.188	1.00	0.28		H
ATOM	1757	CA	SER H	128	22.380	7.369	-16.736	1.00	0.28		C
ATOM	1758	HA	SER H	128	22.128	8.425	-16.707	1.00	0.28		H
ATOM	1759	C	SER H	128	22.038	6.888	-18.141	1.00	0.28		C
ATOM	1760	CB	SER H	128	23.877	7.238	-16.468	1.00	0.28		C
ATOM	1761	HB2	SER H	128	24.442	7.695	-17.285	1.00	0.28		H
ATOM	1762	HB3	SER H	128	24.131	7.748	-15.537	1.00	0.28		H
ATOM	1763	O	SER H	128	22.137	7.730	-19.055	1.00	0.28		O
ATOM	1764	OG	SER H	128	24.200	5.867	-16.358	1.00	0.28		O
ATOM	1765	HG	SER H	128	23.836	5.407	-17.126	1.00	0.28		H
ATOM	1766	OXT	SER H	128	21.457	5.787	-18.273	1.00	0.28		O
TER	1767		SER H	128							
ATOM	1768	N	ASP L	1	7.372	6.187	15.281	1.00	0.49		N
ATOM	1769	H	ASP L	1	8.211	5.756	15.639	1.00	0.49		H
ATOM	1770	H2	ASP L	1	7.566	7.142	14.991	1.00	0.49		H
ATOM	1771	H3	ASP L	1	6.665	6.150	16.008	1.00	0.49		H
ATOM	1772	CA	ASP L	1	6.909	5.429	14.102	1.00	0.49		C
ATOM	1773	HA	ASP L	1	5.947	5.835	13.790	1.00	0.49		H
ATOM	1774	C	ASP L	1	6.722	3.997	14.521	1.00	0.49		C
ATOM	1775	CB	ASP L	1	7.860	5.462	12.882	1.00	0.49		C
ATOM	1776	HB2	ASP L	1	8.742	4.861	13.111	1.00	0.49		H
ATOM	1777	HB3	ASP L	1	7.348	4.997	12.039	1.00	0.49		H
ATOM	1778	O	ASP L	1	7.633	3.430	15.120	1.00	0.49		O
ATOM	1779	CG	ASP L	1	8.346	6.851	12.464	1.00	0.49		C
ATOM	1780	OD1	ASP L	1	8.101	7.790	13.253	1.00	0.49		O
ATOM	1781	OD2	ASP L	1	8.966	6.946	11.380	1.00	0.49		O
ATOM	1782	N	ILE L	2	5.580	3.422	14.171	1.00	0.38		N
ATOM	1783	H	ILE L	2	4.884	3.962	13.680	1.00	0.38		H
ATOM	1784	CA	ILE L	2	5.244	2.041	14.500	1.00	0.38		C
ATOM	1785	HA	ILE L	2	5.589	1.831	15.514	1.00	0.38		H
ATOM	1786	C	ILE L	2	5.959	1.108	13.516	1.00	0.38		C
ATOM	1787	CB	ILE L	2	3.713	1.840	14.436	1.00	0.38		C
ATOM	1788	HB	ILE L	2	3.452	1.715	13.388	1.00	0.38		H
ATOM	1789	O	ILE L	2	5.850	1.304	12.307	1.00	0.38		O
ATOM	1790	CG1	ILE L	2	2.933	3.088	14.928	1.00	0.38		C
ATOM	1791	HG12	ILE L	2	2.942	3.835	14.133	1.00	0.38		H
ATOM	1792	HG13	ILE L	2	3.436	3.523	15.786	1.00	0.38		H
ATOM	1793	CG2	ILE L	2	3.353	0.527	15.156	1.00	0.38		C
ATOM	1794	HG21	ILE L	2	2.310	0.281	14.973	1.00	0.38		H
ATOM	1795	HG22	ILE L	2	3.953	-0.299	14.776	1.00	0.38		H
ATOM	1796	HG23	ILE L	2	3.509	0.622	16.228	1.00	0.38		H

ATOM	1797	CD1	ILE	L	2	1.480	2.861	15.326	1.00	0.38	C
ATOM	1798	HD11	ILE	L	2	1.459	2.332	16.276	1.00	0.38	H
ATOM	1799	HD12	ILE	L	2	0.961	2.292	14.558	1.00	0.38	H
ATOM	1800	HD13	ILE	L	2	0.980	3.818	15.455	1.00	0.38	H
ATOM	1801	N	GLN	L	3	6.671	0.083	13.978	1.00	0.33	N
ATOM	1802	H	GLN	L	3	6.722	-0.058	14.980	1.00	0.33	H
ATOM	1803	CA	GLN	L	3	7.188	-0.980	13.105	1.00	0.33	C
ATOM	1804	HA	GLN	L	3	7.265	-0.605	12.084	1.00	0.33	H
ATOM	1805	C	GLN	L	3	6.201	-2.145	13.099	1.00	0.33	C
ATOM	1806	CB	GLN	L	3	8.591	-1.467	13.509	1.00	0.33	C
ATOM	1807	HB2	GLN	L	3	8.870	-2.275	12.831	1.00	0.33	H
ATOM	1808	HB3	GLN	L	3	8.559	-1.885	14.508	1.00	0.33	H
ATOM	1809	O	GLN	L	3	5.745	-2.573	14.159	1.00	0.33	O
ATOM	1810	CG	GLN	L	3	9.696	-0.400	13.434	1.00	0.33	C
ATOM	1811	HG2	GLN	L	3	9.667	0.073	12.453	1.00	0.33	H
ATOM	1812	HG3	GLN	L	3	10.665	-0.886	13.545	1.00	0.33	H
ATOM	1813	CD	GLN	L	3	9.577	0.659	14.524	1.00	0.33	C
ATOM	1814	NE2	GLN	L	3	9.773	1.912	14.197	1.00	0.33	N
ATOM	1815	HE21	GLN	L	3	9.376	2.574	14.855	1.00	0.33	H
ATOM	1816	HE22	GLN	L	3	9.973	2.172	13.251	1.00	0.33	H
ATOM	1817	OE1	GLN	L	3	9.262	0.383	15.672	1.00	0.33	O
ATOM	1818	N	MET	L	4	5.894	-2.661	11.909	1.00	0.23	N
ATOM	1819	H	MET	L	4	6.312	-2.253	11.086	1.00	0.23	H
ATOM	1820	CA	MET	L	4	4.907	-3.722	11.699	1.00	0.23	C
ATOM	1821	HA	MET	L	4	4.378	-3.911	12.633	1.00	0.23	H
ATOM	1822	C	MET	L	4	5.576	-5.048	11.320	1.00	0.23	C
ATOM	1823	CB	MET	L	4	3.875	-3.255	10.662	1.00	0.23	C
ATOM	1824	HB2	MET	L	4	4.383	-3.032	9.727	1.00	0.23	H
ATOM	1825	HB3	MET	L	4	3.167	-4.060	10.476	1.00	0.23	H
ATOM	1826	O	MET	L	4	5.553	-5.492	10.176	1.00	0.23	O
ATOM	1827	CG	MET	L	4	3.100	-2.005	11.103	1.00	0.23	C
ATOM	1828	HG2	MET	L	4	2.313	-1.819	10.372	1.00	0.23	H
ATOM	1829	HG3	MET	L	4	3.772	-1.147	11.083	1.00	0.23	H
ATOM	1830	SD	MET	L	4	2.342	-2.090	12.752	1.00	0.23	S
ATOM	1831	CE	MET	L	4	1.391	-3.619	12.586	1.00	0.23	C
ATOM	1832	HE1	MET	L	4	0.681	-3.715	13.403	1.00	0.23	H
ATOM	1833	HE2	MET	L	4	0.854	-3.617	11.637	1.00	0.23	H
ATOM	1834	HE3	MET	L	4	2.074	-4.465	12.623	1.00	0.23	H
ATOM	1835	N	THR	L	5	6.210	-5.705	12.282	1.00	0.26	N
ATOM	1836	H	THR	L	5	6.144	-5.354	13.233	1.00	0.26	H
ATOM	1837	CA	THR	L	5	6.998	-6.919	12.040	1.00	0.26	C
ATOM	1838	HA	THR	L	5	7.707	-6.714	11.239	1.00	0.26	H
ATOM	1839	C	THR	L	5	6.120	-8.100	11.616	1.00	0.26	C

ATOM	1840	CB	THR L	5	7.815	-7.273	13.290	1.00	0.26	C
ATOM	1841	HB	THR L	5	7.144	-7.421	14.137	1.00	0.26	H
ATOM	1842	O	THR L	5	5.414	-8.684	12.440	1.00	0.26	O
ATOM	1843	CG2	THR L	5	8.687	-8.518	13.114	1.00	0.26	C
ATOM	1844	HG21	THR L	5	9.309	-8.662	13.997	1.00	0.26	H
ATOM	1845	HG22	THR L	5	8.061	-9.402	12.988	1.00	0.26	H
ATOM	1846	HG23	THR L	5	9.327	-8.403	12.239	1.00	0.26	H
ATOM	1847	OG1	THR L	5	8.691	-6.209	13.580	1.00	0.26	O
ATOM	1848	HG1	THR L	5	9.145	-6.410	14.400	1.00	0.26	H
ATOM	1849	N	GLN L	6	6.204	-8.499	10.345	1.00	0.33	N
ATOM	1850	H	GLN L	6	6.754	-7.944	9.709	1.00	0.33	H
ATOM	1851	CA	GLN L	6	5.755	-9.816	9.884	1.00	0.33	C
ATOM	1852	HA	GLN L	6	4.912	-10.140	10.493	1.00	0.33	H
ATOM	1853	C	GLN L	6	6.887	-10.823	10.085	1.00	0.33	C
ATOM	1854	CB	GLN L	6	5.277	-9.765	8.426	1.00	0.33	C
ATOM	1855	HB2	GLN L	6	6.036	-9.300	7.794	1.00	0.33	H
ATOM	1856	HB3	GLN L	6	5.103	-10.783	8.078	1.00	0.33	H
ATOM	1857	O	GLN L	6	7.933	-10.743	9.450	1.00	0.33	O
ATOM	1858	CG	GLN L	6	3.968	-8.973	8.348	1.00	0.33	C
ATOM	1859	HG2	GLN L	6	3.226	-9.454	8.984	1.00	0.33	H
ATOM	1860	HG3	GLN L	6	4.137	-7.961	8.714	1.00	0.33	H
ATOM	1861	CD	GLN L	6	3.396	-8.888	6.943	1.00	0.33	C
ATOM	1862	NE2	GLN L	6	3.076	-9.989	6.307	1.00	0.33	N
ATOM	1863	HE21	GLN L	6	2.695	-9.899	5.372	1.00	0.33	H
ATOM	1864	HE22	GLN L	6	3.374	-10.902	6.642	1.00	0.33	H
ATOM	1865	OE1	GLN L	6	3.237	-7.810	6.391	1.00	0.33	O
ATOM	1866	N	SER L	7	6.698	-11.757	11.014	1.00	0.41	N
ATOM	1867	H	SER L	7	5.804	-11.785	11.486	1.00	0.41	H
ATOM	1868	CA	SER L	7	7.727	-12.700	11.483	1.00	0.41	C
ATOM	1869	HA	SER L	7	8.676	-12.166	11.546	1.00	0.41	H
ATOM	1870	C	SER L	7	7.962	-13.898	10.546	1.00	0.41	C
ATOM	1871	CB	SER L	7	7.354	-13.157	12.897	1.00	0.41	C
ATOM	1872	HB2	SER L	7	7.315	-12.284	13.551	1.00	0.41	H
ATOM	1873	HB3	SER L	7	8.108	-13.845	13.284	1.00	0.41	H
ATOM	1874	O	SER L	7	8.351	-14.971	10.999	1.00	0.41	O
ATOM	1875	OG	SER L	7	6.082	-13.782	12.889	1.00	0.41	O
ATOM	1876	HG	SER L	7	6.216	-14.707	12.637	1.00	0.41	H
ATOM	1877	N	SER L	8	7.660	-13.754	9.257	1.00	0.45	N
ATOM	1878	H	SER L	8	7.393	-12.828	8.942	1.00	0.45	H
ATOM	1879	CA	SER L	8	7.814	-14.776	8.214	1.00	0.45	C
ATOM	1880	HA	SER L	8	8.771	-15.282	8.340	1.00	0.45	H
ATOM	1881	C	SER L	8	7.791	-14.083	6.852	1.00	0.45	C
ATOM	1882	CB	SER L	8	6.695	-15.826	8.312	1.00	0.45	C

ATOM	1883	HB2	SER	L	8	6.733	-16.482	7.440	1.00	0.45		H
ATOM	1884	HB3	SER	L	8	6.851	-16.431	9.206	1.00	0.45		H
ATOM	1885	O	SER	L	8	6.841	-13.372	6.533	1.00	0.45		O
ATOM	1886	OG	SER	L	8	5.420	-15.214	8.386	1.00	0.45		O
ATOM	1887	HG	SER	L	8	5.401	-14.653	9.163	1.00	0.45		H
ATOM	1888	N	SER	L	9	8.849	-14.242	6.056	1.00	0.44		N
ATOM	1889	H	SER	L	9	9.628	-14.808	6.360	1.00	0.44		H
ATOM	1890	CA	SER	L	9	8.933	-13.645	4.712	1.00	0.44		C
ATOM	1891	HA	SER	L	9	8.465	-12.658	4.717	1.00	0.44		H
ATOM	1892	C	SER	L	9	8.220	-14.495	3.660	1.00	0.44		C
ATOM	1893	CB	SER	L	9	10.402	-13.475	4.324	1.00	0.44		C
ATOM	1894	HB2	SER	L	9	10.461	-13.065	3.314	1.00	0.44		H
ATOM	1895	HB3	SER	L	9	10.878	-12.776	5.013	1.00	0.44		H
ATOM	1896	O	SER	L	9	7.665	-13.971	2.694	1.00	0.44		O
ATOM	1897	OG	SER	L	9	11.078	-14.721	4.375	1.00	0.44		O
ATOM	1898	HG	SER	L	9	11.984	-14.587	4.074	1.00	0.44		H
ATOM	1899	N	SER	L	10	8.195	-15.810	3.863	1.00	0.42		N
ATOM	1900	H	SER	L	10	8.653	-16.181	4.683	1.00	0.42		H
ATOM	1901	CA	SER	L	10	7.509	-16.774	3.011	1.00	0.42		C
ATOM	1902	HA	SER	L	10	6.618	-16.292	2.627	1.00	0.42		H
ATOM	1903	C	SER	L	10	7.076	-18.000	3.821	1.00	0.42		C
ATOM	1904	CB	SER	L	10	8.392	-17.168	1.819	1.00	0.42		C
ATOM	1905	HB2	SER	L	10	8.591	-16.287	1.207	1.00	0.42		H
ATOM	1906	HB3	SER	L	10	7.869	-17.904	1.206	1.00	0.42		H
ATOM	1907	O	SER	L	10	7.649	-18.293	4.872	1.00	0.42		O
ATOM	1908	OG	SER	L	10	9.618	-17.713	2.265	1.00	0.42		O
ATOM	1909	HG	SER	L	10	10.093	-17.030	2.746	1.00	0.42		H
ATOM	1910	N	PHE	L	11	6.057	-18.702	3.330	1.00	0.42		N
ATOM	1911	H	PHE	L	11	5.608	-18.351	2.488	1.00	0.42		H
ATOM	1912	CA	PHE	L	11	5.549	-19.963	3.868	1.00	0.42		C
ATOM	1913	HA	PHE	L	11	6.326	-20.454	4.452	1.00	0.42		H
ATOM	1914	C	PHE	L	11	5.155	-20.902	2.721	1.00	0.42		C
ATOM	1915	CB	PHE	L	11	4.308	-19.717	4.748	1.00	0.42		C
ATOM	1916	HB2	PHE	L	11	3.791	-20.671	4.865	1.00	0.42		H
ATOM	1917	HB3	PHE	L	11	3.633	-19.062	4.200	1.00	0.42		H
ATOM	1918	O	PHE	L	11	4.337	-20.527	1.885	1.00	0.42		O
ATOM	1919	CG	PHE	L	11	4.498	-19.168	6.151	1.00	0.42		C
ATOM	1920	CD1	PHE	L	11	5.527	-19.641	6.991	1.00	0.42		C
ATOM	1921	HD1	PHE	L	11	6.263	-20.336	6.617	1.00	0.42		H
ATOM	1922	CD2	PHE	L	11	3.541	-18.274	6.670	1.00	0.42		C
ATOM	1923	HD2	PHE	L	11	2.737	-17.917	6.043	1.00	0.42		H
ATOM	1924	CE1	PHE	L	11	5.596	-19.228	8.333	1.00	0.42		C
ATOM	1925	HE1	PHE	L	11	6.386	-19.596	8.971	1.00	0.42		H

ATOM	1926	CE2	PHE	L	11	3.608	-17.863	8.012	1.00	0.42	C
ATOM	1927	HE2	PHE	L	11	2.872	-17.179	8.405	1.00	0.42	H
ATOM	1928	CZ	PHE	L	11	4.629	-18.346	8.847	1.00	0.42	C
ATOM	1929	HZ	PHE	L	11	4.675	-18.030	9.879	1.00	0.42	H
ATOM	1930	N	SER	L	12	5.681	-22.130	2.710	1.00	0.61	N
ATOM	1931	H	SER	L	12	6.384	-22.363	3.392	1.00	0.61	H
ATOM	1932	CA	SER	L	12	5.237	-23.213	1.815	1.00	0.61	C
ATOM	1933	HA	SER	L	12	4.902	-22.790	0.871	1.00	0.61	H
ATOM	1934	C	SER	L	12	4.070	-23.986	2.432	1.00	0.61	C
ATOM	1935	CB	SER	L	12	6.386	-24.183	1.519	1.00	0.61	C
ATOM	1936	HB2	SER	L	12	6.682	-24.684	2.442	1.00	0.61	H
ATOM	1937	HB3	SER	L	12	6.056	-24.934	0.800	1.00	0.61	H
ATOM	1938	O	SER	L	12	4.196	-24.511	3.539	1.00	0.61	O
ATOM	1939	OG	SER	L	12	7.502	-23.491	0.993	1.00	0.61	O
ATOM	1940	HG	SER	L	12	7.304	-23.248	0.082	1.00	0.61	H
ATOM	1941	N	VAL	L	13	2.947	-24.072	1.720	1.00	0.44	N
ATOM	1942	H	VAL	L	13	2.917	-23.591	0.822	1.00	0.44	H
ATOM	1943	CA	VAL	L	13	1.650	-24.565	2.215	1.00	0.44	C
ATOM	1944	HA	VAL	L	13	1.812	-25.302	2.999	1.00	0.44	H
ATOM	1945	C	VAL	L	13	0.870	-25.260	1.094	1.00	0.44	C
ATOM	1946	CB	VAL	L	13	0.822	-23.411	2.823	1.00	0.44	C
ATOM	1947	HB	VAL	L	13	-0.222	-23.719	2.866	1.00	0.44	H
ATOM	1948	O	VAL	L	13	0.778	-24.749	-0.014	1.00	0.44	O
ATOM	1949	CG1	VAL	L	13	1.274	-23.129	4.262	1.00	0.44	C
ATOM	1950	HG11	VAL	L	13	1.153	-24.029	4.865	1.00	0.44	H
ATOM	1951	HG12	VAL	L	13	2.319	-22.823	4.278	1.00	0.44	H
ATOM	1952	HG13	VAL	L	13	0.678	-22.329	4.692	1.00	0.44	H
ATOM	1953	CG2	VAL	L	13	0.909	-22.088	2.043	1.00	0.44	C
ATOM	1954	HG21	VAL	L	13	1.917	-21.675	2.091	1.00	0.44	H
ATOM	1955	HG22	VAL	L	13	0.657	-22.261	0.998	1.00	0.44	H
ATOM	1956	HG23	VAL	L	13	0.220	-21.359	2.456	1.00	0.44	H
ATOM	1957	N	SER	L	14	0.296	-26.432	1.357	1.00	0.38	N
ATOM	1958	H	SER	L	14	0.184	-26.692	2.329	1.00	0.38	H
ATOM	1959	CA	SER	L	14	-0.461	-27.193	0.351	1.00	0.38	C
ATOM	1960	HA	SER	L	14	0.027	-27.054	-0.615	1.00	0.38	H
ATOM	1961	C	SER	L	14	-1.884	-26.658	0.196	1.00	0.38	C
ATOM	1962	CB	SER	L	14	-0.456	-28.713	0.607	1.00	0.38	C
ATOM	1963	HB2	SER	L	14	-1.235	-29.189	0.009	1.00	0.38	H
ATOM	1964	HB3	SER	L	14	0.496	-29.118	0.267	1.00	0.38	H
ATOM	1965	O	SER	L	14	-2.432	-26.006	1.087	1.00	0.38	O
ATOM	1966	OG	SER	L	14	-0.612	-29.090	1.963	1.00	0.38	O
ATOM	1967	HG	SER	L	14	-1.408	-28.676	2.373	1.00	0.38	H
ATOM	1968	N	LEU	L	15	-2.508	-26.957	-0.944	1.00	0.28	N

ATOM	1969	H	LEU L	15	-2.010	-27.499	-1.632	1.00	0.28		H
ATOM	1970	CA	LEU L	15	-3.920	-26.653	-1.176	1.00	0.28		C
ATOM	1971	HA	LEU L	15	-4.058	-25.577	-1.068	1.00	0.28		H
ATOM	1972	C	LEU L	15	-4.800	-27.334	-0.118	1.00	0.28		C
ATOM	1973	CB	LEU L	15	-4.331	-27.069	-2.599	1.00	0.28		C
ATOM	1974	HB2	LEU L	15	-5.394	-26.862	-2.726	1.00	0.28		H
ATOM	1975	HB3	LEU L	15	-4.188	-28.147	-2.698	1.00	0.28		H
ATOM	1976	O	LEU L	15	-4.641	-28.520	0.166	1.00	0.28		O
ATOM	1977	CG	LEU L	15	-3.551	-26.359	-3.719	1.00	0.28		C
ATOM	1978	HG	LEU L	15	-2.483	-26.533	-3.594	1.00	0.28		H
ATOM	1979	CD1	LEU L	15	-3.968	-26.927	-5.076	1.00	0.28		C
ATOM	1980	HD11	LEU L	15	-5.029	-26.750	-5.252	1.00	0.28		H
ATOM	1981	HD12	LEU L	15	-3.775	-28.000	-5.097	1.00	0.28		H
ATOM	1982	HD13	LEU L	15	-3.383	-26.458	-5.866	1.00	0.28		H
ATOM	1983	CD2	LEU L	15	-3.816	-24.854	-3.722	1.00	0.28		C
ATOM	1984	HD21	LEU L	15	-3.436	-24.402	-2.806	1.00	0.28		H
ATOM	1985	HD22	LEU L	15	-3.300	-24.395	-4.561	1.00	0.28		H
ATOM	1986	HD23	LEU L	15	-4.886	-24.669	-3.795	1.00	0.28		H
ATOM	1987	N	GLY L	16	-5.725	-26.572	0.465	1.00	0.21		N
ATOM	1988	H	GLY L	16	-5.817	-25.617	0.135	1.00	0.21		H
ATOM	1989	CA	GLY L	16	-6.547	-26.994	1.601	1.00	0.21		C
ATOM	1990	HA2	GLY L	16	-7.518	-26.507	1.529	1.00	0.21		H
ATOM	1991	HA3	GLY L	16	-6.709	-28.070	1.543	1.00	0.21		H
ATOM	1992	C	GLY L	16	-5.947	-26.688	2.982	1.00	0.21		C
ATOM	1993	O	GLY L	16	-6.679	-26.754	3.970	1.00	0.21		O
ATOM	1994	N	ASP L	17	-4.669	-26.292	3.083	1.00	0.31		N
ATOM	1995	H	ASP L	17	-4.083	-26.280	2.254	1.00	0.31		H
ATOM	1996	CA	ASP L	17	-4.054	-25.913	4.364	1.00	0.31		C
ATOM	1997	HA	ASP L	17	-4.136	-26.774	5.028	1.00	0.31		H
ATOM	1998	C	ASP L	17	-4.780	-24.733	5.038	1.00	0.31		C
ATOM	1999	CB	ASP L	17	-2.551	-25.564	4.248	1.00	0.31		C
ATOM	2000	HB2	ASP L	17	-2.242	-25.081	5.177	1.00	0.31		H
ATOM	2001	HB3	ASP L	17	-2.418	-24.826	3.456	1.00	0.31		H
ATOM	2002	O	ASP L	17	-5.385	-23.864	4.403	1.00	0.31		O
ATOM	2003	CG	ASP L	17	-1.583	-26.732	4.024	1.00	0.31		C
ATOM	2004	OD1	ASP L	17	-2.020	-27.884	3.829	1.00	0.31		O
ATOM	2005	OD2	ASP L	17	-0.347	-26.510	4.097	1.00	0.31		O
ATOM	2006	N	ARG L	18	-4.673	-24.681	6.371	1.00	0.30		N
ATOM	2007	H	ARG L	18	-4.150	-25.423	6.814	1.00	0.30		H
ATOM	2008	CA	ARG L	18	-5.238	-23.626	7.221	1.00	0.30		C
ATOM	2009	HA	ARG L	18	-5.944	-23.049	6.624	1.00	0.30		H
ATOM	2010	C	ARG L	18	-4.154	-22.648	7.685	1.00	0.30		C
ATOM	2011	CB	ARG L	18	-6.024	-24.290	8.360	1.00	0.30		C

ATOM	2012	HB2	ARG	L	18	-5.338	-24.867	8.985	1.00	0.30	H
ATOM	2013	HB3	ARG	L	18	-6.735	-24.996	7.926	1.00	0.30	H
ATOM	2014	O	ARG	L	18	-3.742	-22.670	8.846	1.00	0.30	O
ATOM	2015	CG	ARG	L	18	-6.818	-23.280	9.205	1.00	0.30	C
ATOM	2016	HG2	ARG	L	18	-6.644	-22.270	8.831	1.00	0.30	H
ATOM	2017	HG3	ARG	L	18	-7.884	-23.489	9.109	1.00	0.30	H
ATOM	2018	CD	ARG	L	18	-6.429	-23.363	10.689	1.00	0.30	C
ATOM	2019	HD2	ARG	L	18	-6.948	-24.208	11.147	1.00	0.30	H
ATOM	2020	HD3	ARG	L	18	-5.356	-23.545	10.779	1.00	0.30	H
ATOM	2021	NE	ARG	L	18	-6.763	-22.117	11.403	1.00	0.30	N
ATOM	2022	HE	ARG	L	18	-7.598	-22.110	11.962	1.00	0.30	H
ATOM	2023	NH1	ARG	L	18	-4.950	-20.916	10.671	1.00	0.30	N
ATOM	2024	HH11	ARG	L	18	-4.396	-20.069	10.698	1.00	0.30	H
ATOM	2025	HH12	ARG	L	18	-4.593	-21.701	10.137	1.00	0.30	H
ATOM	2026	NH2	ARG	L	18	-6.439	-19.936	11.987	1.00	0.30	N
ATOM	2027	HH21	ARG	L	18	-5.928	-19.073	11.834	1.00	0.30	H
ATOM	2028	HH22	ARG	L	18	-7.281	-19.928	12.527	1.00	0.30	H
ATOM	2029	CZ	ARG	L	18	-6.050	-21.004	11.355	1.00	0.30	C
ATOM	2030	N	VAL	L	19	-3.690	-21.808	6.771	1.00	0.29	N
ATOM	2031	H	VAL	L	19	-4.162	-21.816	5.875	1.00	0.29	H
ATOM	2032	CA	VAL	L	19	-2.556	-20.889	6.948	1.00	0.29	C
ATOM	2033	HA	VAL	L	19	-1.720	-21.476	7.329	1.00	0.29	H
ATOM	2034	C	VAL	L	19	-2.856	-19.775	7.958	1.00	0.29	C
ATOM	2035	CB	VAL	L	19	-2.136	-20.292	5.589	1.00	0.29	C
ATOM	2036	HB	VAL	L	19	-2.849	-19.519	5.298	1.00	0.29	H
ATOM	2037	O	VAL	L	19	-3.991	-19.311	8.069	1.00	0.29	O
ATOM	2038	CG1	VAL	L	19	-0.744	-19.659	5.674	1.00	0.29	C
ATOM	2039	HG11	VAL	L	19	-0.022	-20.369	6.079	1.00	0.29	H
ATOM	2040	HG12	VAL	L	19	-0.424	-19.376	4.677	1.00	0.29	H
ATOM	2041	HG13	VAL	L	19	-0.762	-18.758	6.285	1.00	0.29	H
ATOM	2042	CG2	VAL	L	19	-2.119	-21.357	4.485	1.00	0.29	C
ATOM	2043	HG21	VAL	L	19	-3.135	-21.661	4.233	1.00	0.29	H
ATOM	2044	HG22	VAL	L	19	-1.560	-22.234	4.807	1.00	0.29	H
ATOM	2045	HG23	VAL	L	19	-1.667	-20.951	3.585	1.00	0.29	H
ATOM	2046	N	THR	L	20	-1.830	-19.305	8.669	1.00	0.25	N
ATOM	2047	H	THR	L	20	-0.919	-19.724	8.539	1.00	0.25	H
ATOM	2048	CA	THR	L	20	-1.876	-18.071	9.465	1.00	0.25	C
ATOM	2049	HA	THR	L	20	-2.726	-17.480	9.134	1.00	0.25	H
ATOM	2050	C	THR	L	20	-0.628	-17.239	9.210	1.00	0.25	C
ATOM	2051	CB	THR	L	20	-2.065	-18.351	10.964	1.00	0.25	C
ATOM	2052	HB	THR	L	20	-1.427	-19.179	11.274	1.00	0.25	H
ATOM	2053	O	THR	L	20	0.484	-17.750	9.275	1.00	0.25	O
ATOM	2054	CG2	THR	L	20	-1.799	-17.145	11.857	1.00	0.25	C

ATOM	2055	HG21	THR	L	20	-2.352	-16.290	11.472	1.00	0.25		H
ATOM	2056	HG22	THR	L	20	-0.734	-16.919	11.869	1.00	0.25		H
ATOM	2057	HG23	THR	L	20	-2.115	-17.358	12.879	1.00	0.25		H
ATOM	2058	OG1	THR	L	20	-3.414	-18.669	11.209	1.00	0.25		O
ATOM	2059	HG1	THR	L	20	-3.920	-17.846	11.129	1.00	0.25		H
ATOM	2060	N	ILE	L	21	-0.830	-15.952	8.945	1.00	0.24		N
ATOM	2061	H	ILE	L	21	-1.789	-15.620	8.916	1.00	0.24		H
ATOM	2062	CA	ILE	L	21	0.208	-14.945	8.755	1.00	0.24		C
ATOM	2063	HA	ILE	L	21	1.191	-15.419	8.769	1.00	0.24		H
ATOM	2064	C	ILE	L	21	0.124	-13.967	9.924	1.00	0.24		C
ATOM	2065	CB	ILE	L	21	0.032	-14.248	7.390	1.00	0.24		C
ATOM	2066	HB	ILE	L	21	-0.960	-13.797	7.355	1.00	0.24		H
ATOM	2067	O	ILE	L	21	-0.910	-13.332	10.139	1.00	0.24		O
ATOM	2068	CG1	ILE	L	21	0.134	-15.284	6.244	1.00	0.24		C
ATOM	2069	HG12	ILE	L	21	-0.628	-16.051	6.383	1.00	0.24		H
ATOM	2070	HG13	ILE	L	21	1.110	-15.769	6.270	1.00	0.24		H
ATOM	2071	CG2	ILE	L	21	1.070	-13.123	7.241	1.00	0.24		C
ATOM	2072	HG21	ILE	L	21	0.942	-12.372	8.017	1.00	0.24		H
ATOM	2073	HG22	ILE	L	21	2.073	-13.538	7.322	1.00	0.24		H
ATOM	2074	HG23	ILE	L	21	0.955	-12.619	6.282	1.00	0.24		H
ATOM	2075	CD1	ILE	L	21	-0.090	-14.688	4.854	1.00	0.24		C
ATOM	2076	HD11	ILE	L	21	-0.953	-14.022	4.867	1.00	0.24		H
ATOM	2077	HD12	ILE	L	21	0.800	-14.149	4.535	1.00	0.24		H
ATOM	2078	HD13	ILE	L	21	-0.281	-15.485	4.140	1.00	0.24		H
ATOM	2079	N	THR	L	22	1.200	-13.861	10.696	1.00	0.27		N
ATOM	2080	H	THR	L	22	2.015	-14.419	10.481	1.00	0.27		H
ATOM	2081	CA	THR	L	22	1.286	-13.011	11.889	1.00	0.27		C
ATOM	2082	HA	THR	L	22	0.280	-12.808	12.252	1.00	0.27		H
ATOM	2083	C	THR	L	22	1.948	-11.672	11.588	1.00	0.27		C
ATOM	2084	CB	THR	L	22	2.042	-13.731	13.016	1.00	0.27		C
ATOM	2085	HB	THR	L	22	2.271	-13.022	13.813	1.00	0.27		H
ATOM	2086	O	THR	L	22	2.943	-11.595	10.868	1.00	0.27		O
ATOM	2087	CG2	THR	L	22	1.207	-14.867	13.602	1.00	0.27		C
ATOM	2088	HG21	THR	L	22	0.258	-14.479	13.969	1.00	0.27		H
ATOM	2089	HG22	THR	L	22	1.023	-15.627	12.843	1.00	0.27		H
ATOM	2090	HG23	THR	L	22	1.749	-15.321	14.433	1.00	0.27		H
ATOM	2091	OG1	THR	L	22	3.239	-14.312	12.541	1.00	0.27		O
ATOM	2092	HG1	THR	L	22	3.971	-13.694	12.667	1.00	0.27		H
ATOM	2093	N	CYS	L	23	1.423	-10.617	12.203	1.00	0.21		N
ATOM	2094	H	CYS	L	23	0.606	-10.759	12.792	1.00	0.21		H
ATOM	2095	CA	CYS	L	23	1.960	-9.265	12.160	1.00	0.21		C
ATOM	2096	HA	CYS	L	23	2.991	-9.291	11.806	1.00	0.21		H
ATOM	2097	C	CYS	L	23	1.951	-8.658	13.564	1.00	0.21		C

ATOM	2098	CB	CYS	L	23	1.141	-8.433	11.174	1.00	0.21	C
ATOM	2099	HB2	CYS	L	23	0.084	-8.500	11.439	1.00	0.21	H
ATOM	2100	HB3	CYS	L	23	1.272	-8.857	10.180	1.00	0.21	H
ATOM	2101	O	CYS	L	23	0.962	-8.778	14.291	1.00	0.21	O
ATOM	2102	SG	CYS	L	23	1.597	-6.688	11.103	1.00	0.21	S
ATOM	2103	N	LYS	L	24	3.053	-8.006	13.942	1.00	0.21	N
ATOM	2104	H	LYS	L	24	3.842	-7.992	13.302	1.00	0.21	H
ATOM	2105	CA	LYS	L	24	3.266	-7.469	15.287	1.00	0.21	C
ATOM	2106	HA	LYS	L	24	2.328	-7.528	15.832	1.00	0.21	H
ATOM	2107	C	LYS	L	24	3.697	-6.007	15.248	1.00	0.21	C
ATOM	2108	CB	LYS	L	24	4.275	-8.363	16.019	1.00	0.21	C
ATOM	2109	HB2	LYS	L	24	5.257	-8.261	15.554	1.00	0.21	H
ATOM	2110	HB3	LYS	L	24	3.954	-9.402	15.917	1.00	0.21	H
ATOM	2111	O	LYS	L	24	4.750	-5.689	14.703	1.00	0.21	O
ATOM	2112	CG	LYS	L	24	4.372	-8.034	17.516	1.00	0.21	C
ATOM	2113	HG2	LYS	L	24	3.386	-8.130	17.969	1.00	0.21	H
ATOM	2114	HG3	LYS	L	24	4.727	-7.011	17.650	1.00	0.21	H
ATOM	2115	CD	LYS	L	24	5.353	-9.004	18.192	1.00	0.21	C
ATOM	2116	HD2	LYS	L	24	6.335	-8.879	17.732	1.00	0.21	H
ATOM	2117	HD3	LYS	L	24	5.025	-10.032	18.021	1.00	0.21	H
ATOM	2118	CE	LYS	L	24	5.493	-8.763	19.700	1.00	0.21	C
ATOM	2119	HE2	LYS	L	24	5.691	-7.702	19.877	1.00	0.21	H
ATOM	2120	HE3	LYS	L	24	6.351	-9.341	20.053	1.00	0.21	H
ATOM	2121	NZ	LYS	L	24	4.283	-9.193	20.436	1.00	0.21	N
ATOM	2122	HZ1	LYS	L	24	3.462	-8.612	20.236	1.00	0.21	H
ATOM	2123	HZ2	LYS	L	24	4.390	-9.248	21.433	1.00	0.21	H
ATOM	2124	HZ3	LYS	L	24	3.907	-10.080	20.085	1.00	0.21	H
ATOM	2125	N	ALA	L	25	2.898	-5.135	15.850	1.00	0.22	N
ATOM	2126	H	ALA	L	25	2.083	-5.498	16.328	1.00	0.22	H
ATOM	2127	CA	ALA	L	25	3.219	-3.727	16.037	1.00	0.22	C
ATOM	2128	HA	ALA	L	25	3.679	-3.348	15.126	1.00	0.22	H
ATOM	2129	C	ALA	L	25	4.198	-3.527	17.211	1.00	0.22	C
ATOM	2130	CB	ALA	L	25	1.914	-2.961	16.260	1.00	0.22	C
ATOM	2131	HB1	ALA	L	25	1.496	-3.208	17.235	1.00	0.22	H
ATOM	2132	HB2	ALA	L	25	2.122	-1.894	16.220	1.00	0.22	H
ATOM	2133	HB3	ALA	L	25	1.189	-3.207	15.488	1.00	0.22	H
ATOM	2134	O	ALA	L	25	4.081	-4.189	18.246	1.00	0.22	O
ATOM	2135	N	THR	L	26	5.161	-2.612	17.089	1.00	0.25	N
ATOM	2136	H	THR	L	26	5.307	-2.163	16.190	1.00	0.25	H
ATOM	2137	CA	THR	L	26	6.069	-2.273	18.205	1.00	0.25	C
ATOM	2138	HA	THR	L	26	6.380	-3.198	18.689	1.00	0.25	H
ATOM	2139	C	THR	L	26	5.396	-1.435	19.289	1.00	0.25	C
ATOM	2140	CB	THR	L	26	7.334	-1.557	17.722	1.00	0.25	C

ATOM	2141	HB	THR L	26	7.839	-1.110	18.579	1.00	0.25	H
ATOM	2142	O	THR L	26	5.571	-1.704	20.482	1.00	0.25	O
ATOM	2143	CG2	THR L	26	8.287	-2.567	17.088	1.00	0.25	C
ATOM	2144	HG21	THR L	26	9.187	-2.058	16.744	1.00	0.25	H
ATOM	2145	HG22	THR L	26	8.577	-3.311	17.829	1.00	0.25	H
ATOM	2146	HG23	THR L	26	7.799	-3.071	16.254	1.00	0.25	H
ATOM	2147	OG1	THR L	26	7.029	-0.539	16.801	1.00	0.25	O
ATOM	2148	HG1	THR L	26	7.882	-0.124	16.550	1.00	0.25	H
ATOM	2149	N	GLU L	27	4.580	-0.464	18.898	1.00	0.35	N
ATOM	2150	H	GLU L	27	4.487	-0.315	17.903	1.00	0.35	H
ATOM	2151	CA	GLU L	27	3.678	0.299	19.765	1.00	0.35	C
ATOM	2152	HA	GLU L	27	3.884	0.029	20.797	1.00	0.35	H
ATOM	2153	C	GLU L	27	2.219	-0.129	19.527	1.00	0.35	C
ATOM	2154	CB	GLU L	27	3.977	1.815	19.693	1.00	0.35	C
ATOM	2155	HB2	GLU L	27	3.187	2.348	20.224	1.00	0.35	H
ATOM	2156	HB3	GLU L	27	4.904	1.974	20.246	1.00	0.35	H
ATOM	2157	O	GLU L	27	1.925	-0.806	18.547	1.00	0.35	O
ATOM	2158	CG	GLU L	27	4.165	2.449	18.295	1.00	0.35	C
ATOM	2159	HG2	GLU L	27	4.866	1.840	17.721	1.00	0.35	H
ATOM	2160	HG3	GLU L	27	3.199	2.426	17.793	1.00	0.35	H
ATOM	2161	CD	GLU L	27	4.702	3.903	18.319	1.00	0.35	C
ATOM	2162	OE1	GLU L	27	5.295	4.356	17.302	1.00	0.35	O
ATOM	2163	OE2	GLU L	27	4.507	4.577	19.353	1.00	0.35	O
ATOM	2164	N	ASP L	28	1.325	0.131	20.486	1.00	0.38	N
ATOM	2165	H	ASP L	28	1.535	0.821	21.188	1.00	0.38	H
ATOM	2166	CA	ASP L	28	-0.051	-0.372	20.407	1.00	0.38	C
ATOM	2167	HA	ASP L	28	-0.009	-1.417	20.094	1.00	0.38	H
ATOM	2168	C	ASP L	28	-0.864	0.387	19.354	1.00	0.38	C
ATOM	2169	CB	ASP L	28	-0.725	-0.337	21.782	1.00	0.38	C
ATOM	2170	HB2	ASP L	28	0.014	-0.568	22.553	1.00	0.38	H
ATOM	2171	HB3	ASP L	28	-1.133	0.654	21.983	1.00	0.38	H
ATOM	2172	O	ASP L	28	-0.808	1.618	19.302	1.00	0.38	O
ATOM	2173	CG	ASP L	28	-1.825	-1.391	21.815	1.00	0.38	C
ATOM	2174	OD1	ASP L	28	-2.808	-1.242	21.053	1.00	0.38	O
ATOM	2175	OD2	ASP L	28	-1.597	-2.402	22.516	1.00	0.38	O
ATOM	2176	N	ILE L	29	-1.599	-0.351	18.518	1.00	0.31	N
ATOM	2177	H	ILE L	29	-1.649	-1.347	18.695	1.00	0.31	H
ATOM	2178	CA	ILE L	29	-2.353	0.202	17.384	1.00	0.31	C
ATOM	2179	HA	ILE L	29	-2.196	1.279	17.371	1.00	0.31	H
ATOM	2180	C	ILE L	29	-3.863	0.044	17.514	1.00	0.31	C
ATOM	2181	CB	ILE L	29	-1.835	-0.332	16.032	1.00	0.31	C
ATOM	2182	HB	ILE L	29	-2.372	0.193	15.240	1.00	0.31	H
ATOM	2183	O	ILE L	29	-4.577	0.417	16.585	1.00	0.31	O

ATOM	2184	CG1	ILE	L	29	-2.088	-1.838	15.852	1.00	0.31	C
ATOM	2185	HG12	ILE	L	29	-1.499	-2.392	16.582	1.00	0.31	H
ATOM	2186	HG13	ILE	L	29	-3.143	-2.052	16.018	1.00	0.31	H
ATOM	2187	CG2	ILE	L	29	-0.359	0.027	15.887	1.00	0.31	C
ATOM	2188	HG21	ILE	L	29	-0.246	1.065	16.175	1.00	0.31	H
ATOM	2189	HG22	ILE	L	29	-0.027	-0.101	14.859	1.00	0.31	H
ATOM	2190	HG23	ILE	L	29	0.248	-0.585	16.551	1.00	0.31	H
ATOM	2191	CD1	ILE	L	29	-1.732	-2.328	14.449	1.00	0.31	C
ATOM	2192	HD11	ILE	L	29	-2.319	-1.788	13.705	1.00	0.31	H
ATOM	2193	HD12	ILE	L	29	-0.674	-2.178	14.251	1.00	0.31	H
ATOM	2194	HD13	ILE	L	29	-1.950	-3.392	14.383	1.00	0.31	H
ATOM	2195	N	TYR	L	36	-4.375	-0.490	18.629	1.00	0.27	N
ATOM	2196	H	TYR	L	36	-3.733	-0.732	19.389	1.00	0.27	H
ATOM	2197	CA	TYR	L	36	-5.809	-0.465	18.951	1.00	0.27	C
ATOM	2198	HA	TYR	L	36	-5.959	-1.169	19.771	1.00	0.27	H
ATOM	2199	C	TYR	L	36	-6.706	-0.946	17.789	1.00	0.27	C
ATOM	2200	CB	TYR	L	36	-6.186	0.934	19.474	1.00	0.27	C
ATOM	2201	HB2	TYR	L	36	-7.234	0.923	19.776	1.00	0.27	H
ATOM	2202	HB3	TYR	L	36	-6.083	1.658	18.664	1.00	0.27	H
ATOM	2203	O	TYR	L	36	-7.660	-0.267	17.392	1.00	0.27	O
ATOM	2204	CG	TYR	L	36	-5.352	1.406	20.651	1.00	0.27	C
ATOM	2205	CD1	TYR	L	36	-5.772	1.141	21.970	1.00	0.27	C
ATOM	2206	HD1	TYR	L	36	-6.692	0.607	22.151	1.00	0.27	H
ATOM	2207	CD2	TYR	L	36	-4.134	2.076	20.424	1.00	0.27	C
ATOM	2208	HD2	TYR	L	36	-3.796	2.262	19.415	1.00	0.27	H
ATOM	2209	CE1	TYR	L	36	-4.969	1.540	23.058	1.00	0.27	C
ATOM	2210	HE1	TYR	L	36	-5.267	1.323	24.072	1.00	0.27	H
ATOM	2211	CE2	TYR	L	36	-3.325	2.464	21.506	1.00	0.27	C
ATOM	2212	HE2	TYR	L	36	-2.377	2.941	21.317	1.00	0.27	H
ATOM	2213	OH	TYR	L	36	-2.954	2.553	23.873	1.00	0.27	O
ATOM	2214	HH	TYR	L	36	-2.076	2.792	23.576	1.00	0.27	H
ATOM	2215	CZ	TYR	L	36	-3.740	2.192	22.826	1.00	0.27	C
ATOM	2216	N	ASN	L	37	-6.348	-2.082	17.180	1.00	0.21	N
ATOM	2217	H	ASN	L	37	-5.562	-2.588	17.573	1.00	0.21	H
ATOM	2218	CA	ASN	L	37	-7.022	-2.710	16.037	1.00	0.21	C
ATOM	2219	HA	ASN	L	37	-6.383	-3.543	15.742	1.00	0.21	H
ATOM	2220	C	ASN	L	37	-7.104	-1.850	14.757	1.00	0.21	C
ATOM	2221	CB	ASN	L	37	-8.362	-3.334	16.487	1.00	0.21	C
ATOM	2222	HB2	ASN	L	37	-8.973	-2.595	17.003	1.00	0.21	H
ATOM	2223	HB3	ASN	L	37	-8.917	-3.667	15.610	1.00	0.21	H
ATOM	2224	O	ASN	L	37	-7.798	-2.219	13.808	1.00	0.21	O
ATOM	2225	CG	ASN	L	37	-8.152	-4.527	17.410	1.00	0.21	C
ATOM	2226	ND2	ASN	L	37	-8.589	-5.697	17.007	1.00	0.21	N

ATOM	2227	HD21 ASN L	37	-8.321	-6.515	17.547	1.00	0.21	H
ATOM	2228	HD22 ASN L	37	-9.105	-5.785	16.153	1.00	0.21	H
ATOM	2229	OD1 ASN L	37	-7.550	-4.436	18.468	1.00	0.21	O
ATOM	2230	N ARG L	38	-6.358	-0.740	14.664	1.00	0.27	N
ATOM	2231	H ARG L	38	-5.800	-0.471	15.472	1.00	0.27	H
ATOM	2232	CA ARG L	38	-6.185	0.043	13.428	1.00	0.27	C
ATOM	2233	HA ARG L	38	-7.131	0.070	12.888	1.00	0.27	H
ATOM	2234	C ARG L	38	-5.184	-0.638	12.491	1.00	0.27	C
ATOM	2235	CB ARG L	38	-5.771	1.491	13.738	1.00	0.27	C
ATOM	2236	HB2 ARG L	38	-4.752	1.481	14.112	1.00	0.27	H
ATOM	2237	HB3 ARG L	38	-5.765	2.045	12.800	1.00	0.27	H
ATOM	2238	O ARG L	38	-4.122	-0.096	12.192	1.00	0.27	O
ATOM	2239	CG ARG L	38	-6.634	2.271	14.741	1.00	0.27	C
ATOM	2240	HG2 ARG L	38	-6.361	1.986	15.755	1.00	0.27	H
ATOM	2241	HG3 ARG L	38	-6.394	3.326	14.614	1.00	0.27	H
ATOM	2242	CD ARG L	38	-8.147	2.089	14.573	1.00	0.27	C
ATOM	2243	HD2 ARG L	38	-8.392	2.159	13.513	1.00	0.27	H
ATOM	2244	HD3 ARG L	38	-8.439	1.098	14.927	1.00	0.27	H
ATOM	2245	NE ARG L	38	-8.889	3.136	15.303	1.00	0.27	N
ATOM	2246	HE ARG L	38	-9.244	3.891	14.744	1.00	0.27	H
ATOM	2247	NH1 ARG L	38	-8.668	2.320	17.455	1.00	0.27	N
ATOM	2248	HH11 ARG L	38	-8.254	1.451	17.121	1.00	0.27	H
ATOM	2249	HH12 ARG L	38	-8.756	2.444	18.443	1.00	0.27	H
ATOM	2250	NH2 ARG L	38	-9.623	4.291	17.117	1.00	0.27	N
ATOM	2251	HH21 ARG L	38	-9.739	4.360	18.110	1.00	0.27	H
ATOM	2252	HH22 ARG L	38	-9.931	5.032	16.516	1.00	0.27	H
ATOM	2253	CZ ARG L	38	-9.051	3.234	16.612	1.00	0.27	C
ATOM	2254	N LEUL 39	-5.519	-1.854	12.069	1.00	0.17	N	
ATOM	2255	H LEUL 39	-6.412	-2.218	12.375	1.00	0.17	H	
ATOM	2256	CA LEUL 39	-4.705	-2.687	11.192	1.00	0.17	C	
ATOM	2257	HA LEUL 39	-3.835	-2.112	10.877	1.00	0.17	H	
ATOM	2258	C LEUL 39	-5.484	-3.081	9.937	1.00	0.17	C	
ATOM	2259	CB LEUL 39	-4.195	-3.907	11.974	1.00	0.17	C	
ATOM	2260	HB2 LEUL 39	-5.047	-4.522	12.266	1.00	0.17	H	
ATOM	2261	HB3 LEUL 39	-3.732	-3.555	12.893	1.00	0.17	H	
ATOM	2262	O LEUL 39	-6.669	-3.407	10.009	1.00	0.17	O	
ATOM	2263	CG LEUL 39	-3.181	-4.757	11.175	1.00	0.17	C	
ATOM	2264	HG LEUL 39	-2.914	-4.262	10.244	1.00	0.17	H	
ATOM	2265	CD1 LEUL 39	-1.891	-4.966	11.959	1.00	0.17	C	
ATOM	2266	HD11 LEUL 39	-1.417	-3.998	12.113	1.00	0.17	H	
ATOM	2267	HD12 LEUL 39	-2.107	-5.425	12.922	1.00	0.17	H	
ATOM	2268	HD13 LEUL 39	-1.211	-5.606	11.400	1.00	0.17	H	
ATOM	2269	CD2 LEUL 39	-3.762	-6.128	10.846	1.00	0.17	C	

ATOM	2270	HD21	LEU	L	39	-3.998	-6.666	11.763	1.00	0.17	H
ATOM	2271	HD22	LEU	L	39	-3.034	-6.694	10.265	1.00	0.17	H
ATOM	2272	HD23	LEU	L	39	-4.664	-6.010	10.246	1.00	0.17	H
ATOM	2273	N	ALA	L	40	-4.809	-3.066	8.799	1.00	0.17	N
ATOM	2274	H	ALA	L	40	-3.839	-2.767	8.826	1.00	0.17	H
ATOM	2275	CA	ALA	L	40	-5.289	-3.593	7.534	1.00	0.17	C
ATOM	2276	HA	ALA	L	40	-6.301	-3.970	7.664	1.00	0.17	H
ATOM	2277	C	ALA	L	40	-4.412	-4.763	7.065	1.00	0.17	C
ATOM	2278	CB	ALA	L	40	-5.328	-2.445	6.523	1.00	0.17	C
ATOM	2279	HB1	ALA	L	40	-5.583	-2.832	5.540	1.00	0.17	H
ATOM	2280	HB2	ALA	L	40	-6.076	-1.716	6.828	1.00	0.17	H
ATOM	2281	HB3	ALA	L	40	-4.352	-1.961	6.462	1.00	0.17	H
ATOM	2282	O	ALA	L	40	-3.238	-4.848	7.433	1.00	0.17	O
ATOM	2283	N	TRP	L	41	-4.981	-5.635	6.233	1.00	0.10	N
ATOM	2284	H	TRP	L	41	-5.955	-5.474	5.990	1.00	0.10	H
ATOM	2285	CA	TRP	L	41	-4.280	-6.689	5.501	1.00	0.10	C
ATOM	2286	HA	TRP	L	41	-3.208	-6.600	5.673	1.00	0.10	H
ATOM	2287	C	TRP	L	41	-4.541	-6.550	4.003	1.00	0.10	C
ATOM	2288	CB	TRP	L	41	-4.719	-8.079	5.968	1.00	0.10	C
ATOM	2289	HB2	TRP	L	41	-5.802	-8.150	5.906	1.00	0.10	H
ATOM	2290	HB3	TRP	L	41	-4.319	-8.808	5.264	1.00	0.10	H
ATOM	2291	O	TRP	L	41	-5.693	-6.483	3.572	1.00	0.10	O
ATOM	2292	CG	TRP	L	41	-4.267	-8.501	7.330	1.00	0.10	C
ATOM	2293	CD1	TRP	L	41	-5.025	-8.528	8.450	1.00	0.10	C
ATOM	2294	HD1	TRP	L	41	-6.062	-8.218	8.500	1.00	0.10	H
ATOM	2295	CD2	TRP	L	41	-2.958	-9.018	7.718	1.00	0.10	C
ATOM	2296	CE2	TRP	L	41	-3.001	-9.362	9.103	1.00	0.10	C
ATOM	2297	CE3	TRP	L	41	-1.759	-9.285	7.021	1.00	0.10	C
ATOM	2298	HE3	TRP	L	41	-1.696	-9.043	5.970	1.00	0.10	H
ATOM	2299	NE1	TRP	L	41	-4.283	-9.040	9.498	1.00	0.10	N
ATOM	2300	HE1	TRP	L	41	-4.656	-9.174	10.427	1.00	0.10	H
ATOM	2301	CH2	TRP	L	41	-0.743	-10.227	9.032	1.00	0.10	C
ATOM	2302	HH2	TRP	L	41	0.091	-10.715	9.514	1.00	0.10	H
ATOM	2303	CZ2	TRP	L	41	-1.909	-9.943	9.764	1.00	0.10	C
ATOM	2304	HZ2	TRP	L	41	-1.974	-10.201	10.809	1.00	0.10	H
ATOM	2305	CZ3	TRP	L	41	-0.665	-9.890	7.669	1.00	0.10	C
ATOM	2306	HZ3	TRP	L	41	0.238	-10.104	7.112	1.00	0.10	H
ATOM	2307	N	TYR	L	42	-3.469	-6.579	3.219	1.00	0.19	N
ATOM	2308	H	TYR	L	42	-2.561	-6.635	3.667	1.00	0.19	H
ATOM	2309	CA	TYR	L	42	-3.479	-6.574	1.761	1.00	0.19	C
ATOM	2310	HA	TYR	L	42	-4.499	-6.412	1.425	1.00	0.19	H
ATOM	2311	C	TYR	L	42	-2.989	-7.912	1.205	1.00	0.19	C
ATOM	2312	CB	TYR	L	42	-2.607	-5.433	1.219	1.00	0.19	C

ATOM	2313	HB2	TYR	L	42	-1.569	-5.620	1.493	1.00	0.19	H
ATOM	2314	HB3	TYR	L	42	-2.663	-5.444	0.131	1.00	0.19	H
ATOM	2315	O	TYR	L	42	-2.169	-8.582	1.828	1.00	0.19	O
ATOM	2316	CG	TYR	L	42	-2.996	-4.055	1.708	1.00	0.19	C
ATOM	2317	CD1	TYR	L	42	-2.484	-3.569	2.925	1.00	0.19	C
ATOM	2318	HD1	TYR	L	42	-1.793	-4.168	3.503	1.00	0.19	H
ATOM	2319	CD2	TYR	L	42	-3.887	-3.268	0.955	1.00	0.19	C
ATOM	2320	HD2	TYR	L	42	-4.263	-3.622	0.007	1.00	0.19	H
ATOM	2321	CE1	TYR	L	42	-2.886	-2.308	3.399	1.00	0.19	C
ATOM	2322	HE1	TYR	L	42	-2.508	-1.934	4.328	1.00	0.19	H
ATOM	2323	CE2	TYR	L	42	-4.298	-2.015	1.442	1.00	0.19	C
ATOM	2324	HE2	TYR	L	42	-5.004	-1.423	0.890	1.00	0.19	H
ATOM	2325	OH	TYR	L	42	-4.195	-0.320	3.138	1.00	0.19	O
ATOM	2326	HH	TYR	L	42	-3.593	0.005	3.839	1.00	0.19	H
ATOM	2327	CZ	TYR	L	42	-3.800	-1.529	2.666	1.00	0.19	C
ATOM	2328	N	GLN	L	43	-3.447	-8.258	0.006	1.00	0.18	N
ATOM	2329	H	GLN	L	43	-4.138	-7.642	-0.413	1.00	0.18	H
ATOM	2330	CA	GLN	L	43	-2.986	-9.366	-0.826	1.00	0.18	C
ATOM	2331	HA	GLN	L	43	-2.205	-9.930	-0.313	1.00	0.18	H
ATOM	2332	C	GLN	L	43	-2.422	-8.795	-2.127	1.00	0.18	C
ATOM	2333	CB	GLN	L	43	-4.182	-10.292	-1.092	1.00	0.18	C
ATOM	2334	HB2	GLN	L	43	-4.499	-10.699	-0.137	1.00	0.18	H
ATOM	2335	HB3	GLN	L	43	-4.998	-9.690	-1.496	1.00	0.18	H
ATOM	2336	O	GLN	L	43	-3.138	-8.127	-2.871	1.00	0.18	O
ATOM	2337	CG	GLN	L	43	-3.921	-11.459	-2.057	1.00	0.18	C
ATOM	2338	HG2	GLN	L	43	-3.252	-12.171	-1.577	1.00	0.18	H
ATOM	2339	HG3	GLN	L	43	-3.441	-11.097	-2.965	1.00	0.18	H
ATOM	2340	CD	GLN	L	43	-5.216	-12.155	-2.475	1.00	0.18	C
ATOM	2341	NE2	GLN	L	43	-5.445	-13.381	-2.062	1.00	0.18	N
ATOM	2342	HE21	GLN	L	43	-6.297	-13.828	-2.356	1.00	0.18	H
ATOM	2343	HE22	GLN	L	43	-4.803	-13.856	-1.438	1.00	0.18	H
ATOM	2344	OE1	GLN	L	43	-6.034	-11.614	-3.205	1.00	0.18	O
ATOM	2345	N	GLN	L	44	-1.160	-9.075	-2.435	1.00	0.22	N
ATOM	2346	H	GLN	L	44	-0.593	-9.592	-1.769	1.00	0.22	H
ATOM	2347	CA	GLN	L	44	-0.517	-8.648	-3.672	1.00	0.22	C
ATOM	2348	HA	GLN	L	44	-1.252	-8.143	-4.301	1.00	0.22	H
ATOM	2349	C	GLN	L	44	0.009	-9.850	-4.456	1.00	0.22	C
ATOM	2350	CB	GLN	L	44	0.586	-7.632	-3.360	1.00	0.22	C
ATOM	2351	HB2	GLN	L	44	1.408	-8.132	-2.844	1.00	0.22	H
ATOM	2352	HB3	GLN	L	44	0.189	-6.849	-2.712	1.00	0.22	H
ATOM	2353	O	GLN	L	44	0.706	-10.713	-3.918	1.00	0.22	O
ATOM	2354	CG	GLN	L	44	1.094	-6.992	-4.659	1.00	0.22	C
ATOM	2355	HG2	GLN	L	44	1.486	-7.757	-5.326	1.00	0.22	H

ATOM	2356	HG3	GLN	L	44	0.259	-6.497	-5.154	1.00	0.22		H
ATOM	2357	CD	GLN	L	44	2.202	-5.977	-4.442	1.00	0.22		C
ATOM	2358	NE2	GLN	L	44	2.473	-5.159	-5.425	1.00	0.22		N
ATOM	2359	HE21	GLN	L	44	1.928	-5.182	-6.284	1.00	0.22		H
ATOM	2360	HE22	GLN	L	44	3.229	-4.499	-5.292	1.00	0.22		H
ATOM	2361	OE1	GLN	L	44	2.845	-5.911	-3.407	1.00	0.22		O
ATOM	2362	N	LYS	L	45	-0.305	-9.893	-5.750	1.00	0.28		N
ATOM	2363	H	LYS	L	45	-0.833	-9.119	-6.130	1.00	0.28		H
ATOM	2364	CA	LYS	L	45	0.283	-10.840	-6.705	1.00	0.28		C
ATOM	2365	HA	LYS	L	45	0.794	-11.623	-6.147	1.00	0.28		H
ATOM	2366	C	LYS	L	45	1.340	-10.146	-7.570	1.00	0.28		C
ATOM	2367	CB	LYS	L	45	-0.826	-11.490	-7.540	1.00	0.28		C
ATOM	2368	HB2	LYS	L	45	-1.497	-10.724	-7.934	1.00	0.28		H
ATOM	2369	HB3	LYS	L	45	-0.386	-12.033	-8.378	1.00	0.28		H
ATOM	2370	O	LYS	L	45	1.289	-8.923	-7.709	1.00	0.28		O
ATOM	2371	CG	LYS	L	45	-1.596	-12.477	-6.657	1.00	0.28		C
ATOM	2372	HG2	LYS	L	45	-2.058	-11.945	-5.824	1.00	0.28		H
ATOM	2373	HG3	LYS	L	45	-0.902	-13.220	-6.259	1.00	0.28		H
ATOM	2374	CD	LYS	L	45	-2.684	-13.189	-7.454	1.00	0.28		C
ATOM	2375	HD2	LYS	L	45	-2.233	-13.745	-8.279	1.00	0.28		H
ATOM	2376	HD3	LYS	L	45	-3.387	-12.451	-7.845	1.00	0.28		H
ATOM	2377	CE	LYS	L	45	-3.396	-14.148	-6.505	1.00	0.28		C
ATOM	2378	HE2	LYS	L	45	-3.742	-13.593	-5.627	1.00	0.28		H
ATOM	2379	HE3	LYS	L	45	-2.685	-14.905	-6.153	1.00	0.28		H
ATOM	2380	NZ	LYS	L	45	-4.547	-14.794	-7.166	1.00	0.28		N
ATOM	2381	HZ1	LYS	L	45	-5.021	-15.352	-6.455	1.00	0.28		H
ATOM	2382	HZ2	LYS	L	45	-5.202	-14.110	-7.511	1.00	0.28		H
ATOM	2383	HZ3	LYS	L	45	-4.238	-15.407	-7.905	1.00	0.28		H
ATOM	2384	N	PRO	L	46	2.294	-10.891	-8.158	1.00	0.30		N
ATOM	2385	CA	PRO	L	46	3.314	-10.310	-9.027	1.00	0.30		C
ATOM	2386	HA	PRO	L	46	3.981	-9.705	-8.411	1.00	0.30		H
ATOM	2387	C	PRO	L	46	2.709	-9.434	-10.132	1.00	0.30		C
ATOM	2388	CB	PRO	L	46	4.096	-11.497	-9.594	1.00	0.30		C
ATOM	2389	HB2	PRO	L	46	3.628	-11.852	-10.515	1.00	0.30		H
ATOM	2390	HB3	PRO	L	46	5.142	-11.245	-9.772	1.00	0.30		H
ATOM	2391	O	PRO	L	46	1.675	-9.775	-10.707	1.00	0.30		O
ATOM	2392	CG	PRO	L	46	3.946	-12.562	-8.510	1.00	0.30		C
ATOM	2393	HG2	PRO	L	46	4.070	-13.569	-8.908	1.00	0.30		H
ATOM	2394	HG3	PRO	L	46	4.660	-12.372	-7.706	1.00	0.30		H
ATOM	2395	CD	PRO	L	46	2.525	-12.322	-8.003	1.00	0.30		C
ATOM	2396	HD2	PRO	L	46	1.817	-12.875	-8.622	1.00	0.30		H
ATOM	2397	HD3	PRO	L	46	2.450	-12.640	-6.963	1.00	0.30		H
ATOM	2398	N	GLY	L	47	3.333	-8.284	-10.399	1.00	0.30		N

ATOM	2399	H	GLY	L	47	4.157	-8.047	-9.868	1.00	0.30		H
ATOM	2400	CA	GLY	L	47	2.887	-7.332	-11.426	1.00	0.30		C
ATOM	2401	HA2	GLY	L	47	2.827	-7.847	-12.385	1.00	0.30		H
ATOM	2402	HA3	GLY	L	47	3.626	-6.536	-11.514	1.00	0.30		H
ATOM	2403	C	GLY	L	47	1.525	-6.670	-11.170	1.00	0.30		C
ATOM	2404	O	GLY	L	47	0.996	-6.032	-12.073	1.00	0.30		O
ATOM	2405	N	SER	L	48	0.946	-6.831	-9.976	1.00	0.26		N
ATOM	2406	H	SER	L	48	1.440	-7.352	-9.263	1.00	0.26		H
ATOM	2407	CA	SER	L	48	-0.375	-6.307	-9.609	1.00	0.26		C
ATOM	2408	HA	SER	L	48	-0.817	-5.782	-10.457	1.00	0.26		H
ATOM	2409	C	SER	L	48	-0.268	-5.334	-8.434	1.00	0.26		C
ATOM	2410	CB	SER	L	48	-1.309	-7.458	-9.216	1.00	0.26		C
ATOM	2411	HB2	SER	L	48	-2.323	-7.074	-9.095	1.00	0.26		H
ATOM	2412	HB3	SER	L	48	-0.985	-7.872	-8.261	1.00	0.26		H
ATOM	2413	O	SER	L	48	0.596	-5.493	-7.569	1.00	0.26		O
ATOM	2414	OG	SER	L	48	-1.312	-8.491	-10.185	1.00	0.26		O
ATOM	2415	HG	SER	L	48	-0.395	-8.719	-10.393	1.00	0.26		H
ATOM	2416	N	ALA	L	49	-1.184	-4.369	-8.355	1.00	0.24		N
ATOM	2417	H	ALA	L	49	-1.866	-4.271	-9.089	1.00	0.24		H
ATOM	2418	CA	ALA	L	49	-1.337	-3.537	-7.163	1.00	0.24		C
ATOM	2419	HA	ALA	L	49	-0.363	-3.106	-6.937	1.00	0.24		H
ATOM	2420	C	ALA	L	49	-1.821	-4.369	-5.946	1.00	0.24		C
ATOM	2421	CB	ALA	L	49	-2.297	-2.389	-7.487	1.00	0.24		C
ATOM	2422	HB1	ALA	L	49	-2.357	-1.709	-6.636	1.00	0.24		H
ATOM	2423	HB2	ALA	L	49	-1.926	-1.834	-8.350	1.00	0.24		H
ATOM	2424	HB3	ALA	L	49	-3.293	-2.777	-7.704	1.00	0.24		H
ATOM	2425	O	ALA	L	49	-2.521	-5.372	-6.133	1.00	0.24		O
ATOM	2426	N	PRO	L	50	-1.484	-3.984	-4.699	1.00	0.17		N
ATOM	2427	CA	PRO	L	50	-2.031	-4.612	-3.494	1.00	0.17		C
ATOM	2428	HA	PRO	L	50	-1.773	-5.671	-3.506	1.00	0.17		H
ATOM	2429	C	PRO	L	50	-3.557	-4.459	-3.390	1.00	0.17		C
ATOM	2430	CB	PRO	L	50	-1.324	-3.934	-2.310	1.00	0.17		C
ATOM	2431	HB2	PRO	L	50	-1.927	-3.113	-1.919	1.00	0.17		H
ATOM	2432	HB3	PRO	L	50	-1.096	-4.646	-1.517	1.00	0.17		H
ATOM	2433	O	PRO	L	50	-4.083	-3.348	-3.377	1.00	0.17		O
ATOM	2434	CG	PRO	L	50	-0.047	-3.358	-2.918	1.00	0.17		C
ATOM	2435	HG2	PRO	L	50	0.310	-2.488	-2.367	1.00	0.17		H
ATOM	2436	HG3	PRO	L	50	0.723	-4.127	-2.949	1.00	0.17		H
ATOM	2437	CD	PRO	L	50	-0.477	-2.997	-4.337	1.00	0.17		C
ATOM	2438	HD2	PRO	L	50	0.391	-3.032	-4.995	1.00	0.17		H
ATOM	2439	HD3	PRO	L	50	-0.925	-2.004	-4.354	1.00	0.17		H
ATOM	2440	N	ARG	L	51	-4.283	-5.571	-3.250	1.00	0.20		N
ATOM	2441	H	ARG	L	51	-3.799	-6.464	-3.275	1.00	0.20		H

ATOM	2442	CA	ARG L	51	-5.718	-5.577	-2.933	1.00	0.20	C
ATOM	2443	HA	ARG L	51	-6.176	-4.684	-3.364	1.00	0.20	H
ATOM	2444	C	ARG L	51	-5.918	-5.545	-1.421	1.00	0.20	C
ATOM	2445	CB	ARG L	51	-6.382	-6.827	-3.541	1.00	0.20	C
ATOM	2446	HB2	ARG L	51	-5.988	-7.723	-3.057	1.00	0.20	H
ATOM	2447	HB3	ARG L	51	-6.160	-6.880	-4.608	1.00	0.20	H
ATOM	2448	O	ARG L	51	-5.418	-6.432	-0.737	1.00	0.20	O
ATOM	2449	CG	ARG L	51	-7.906	-6.760	-3.347	1.00	0.20	C
ATOM	2450	HG2	ARG L	51	-8.309	-5.957	-3.966	1.00	0.20	H
ATOM	2451	HG3	ARG L	51	-8.124	-6.529	-2.309	1.00	0.20	H
ATOM	2452	CD	ARG L	51	-8.642	-8.062	-3.667	1.00	0.20	C
ATOM	2453	HD2	ARG L	51	-8.189	-8.877	-3.099	1.00	0.20	H
ATOM	2454	HD3	ARG L	51	-8.547	-8.274	-4.734	1.00	0.20	H
ATOM	2455	NE	ARG L	51	-10.064	-7.921	-3.294	1.00	0.20	N
ATOM	2456	HE	ARG L	51	-10.327	-7.055	-2.847	1.00	0.20	H
ATOM	2457	NH1	ARG L	51	-10.809	-10.008	-3.902	1.00	0.20	N
ATOM	2458	HH11	ARG L	51	-11.583	-10.637	-4.023	1.00	0.20	H
ATOM	2459	HH12	ARG L	51	-9.861	-10.295	-4.069	1.00	0.20	H
ATOM	2460	NH2	ARG L	51	-12.264	-8.496	-3.197	1.00	0.20	N
ATOM	2461	HH21	ARG L	51	-12.531	-7.602	-2.806	1.00	0.20	H
ATOM	2462	HH22	ARG L	51	-12.980	-9.199	-3.319	1.00	0.20	H
ATOM	2463	CZ	ARG L	51	-11.031	-8.801	-3.465	1.00	0.20	C
ATOM	2464	N	LEU L	52	-6.702	-4.605	-0.897	1.00	0.19	N
ATOM	2465	H	LEU L	52	-7.079	-3.888	-1.496	1.00	0.19	H
ATOM	2466	CA	LEU L	52	-7.162	-4.659	0.495	1.00	0.19	C
ATOM	2467	HA	LEU L	52	-6.292	-4.776	1.142	1.00	0.19	H
ATOM	2468	C	LEU L	52	-8.087	-5.875	0.700	1.00	0.19	C
ATOM	2469	CB	LEU L	52	-7.853	-3.327	0.840	1.00	0.19	C
ATOM	2470	HB2	LEU L	52	-8.744	-3.236	0.216	1.00	0.19	H
ATOM	2471	HB3	LEU L	52	-7.188	-2.500	0.591	1.00	0.19	H
ATOM	2472	O	LEU L	52	-9.055	-6.045	-0.042	1.00	0.19	O
ATOM	2473	CG	LEU L	52	-8.276	-3.190	2.315	1.00	0.19	C
ATOM	2474	HG	LEU L	52	-8.830	-4.073	2.620	1.00	0.19	H
ATOM	2475	CD1	LEU L	52	-7.098	-3.039	3.272	1.00	0.19	C
ATOM	2476	HD11	LEU L	52	-6.556	-2.120	3.053	1.00	0.19	H
ATOM	2477	HD12	LEU L	52	-6.425	-3.890	3.192	1.00	0.19	H
ATOM	2478	HD13	LEU L	52	-7.484	-2.994	4.289	1.00	0.19	H
ATOM	2479	CD2	LEU L	52	-9.152	-1.949	2.485	1.00	0.19	C
ATOM	2480	HD21	LEU L	52	-8.578	-1.055	2.246	1.00	0.19	H
ATOM	2481	HD22	LEU L	52	-9.521	-1.894	3.509	1.00	0.19	H
ATOM	2482	HD23	LEU L	52	-10.015	-2.007	1.821	1.00	0.19	H
ATOM	2483	N	LEU L	53	-7.775	-6.728	1.680	1.00	0.14	N
ATOM	2484	H	LEU L	53	-6.949	-6.538	2.237	1.00	0.14	H

ATOM	2485	CA	LEU	L	53	-8.621	-7.862	2.066	1.00	0.14	C
ATOM	2486	HA	LEU	L	53	-9.366	-8.028	1.293	1.00	0.14	H
ATOM	2487	C	LEU	L	53	-9.400	-7.614	3.355	1.00	0.14	C
ATOM	2488	CB	LEU	L	53	-7.801	-9.152	2.227	1.00	0.14	C
ATOM	2489	HB2	LEU	L	53	-7.031	-9.000	2.985	1.00	0.14	H
ATOM	2490	HB3	LEU	L	53	-8.489	-9.906	2.614	1.00	0.14	H
ATOM	2491	O	LEU	L	53	-10.552	-8.032	3.456	1.00	0.14	O
ATOM	2492	CG	LEU	L	53	-7.135	-9.717	0.959	1.00	0.14	C
ATOM	2493	HG	LEU	L	53	-6.195	-9.193	0.788	1.00	0.14	H
ATOM	2494	CD1	LEU	L	53	-6.861	-11.202	1.206	1.00	0.14	C
ATOM	2495	HD11	LEU	L	53	-6.162	-11.315	2.035	1.00	0.14	H
ATOM	2496	HD12	LEU	L	53	-7.788	-11.723	1.448	1.00	0.14	H
ATOM	2497	HD13	LEU	L	53	-6.451	-11.668	0.313	1.00	0.14	H
ATOM	2498	CD2	LEU	L	53	-7.981	-9.633	-0.312	1.00	0.14	C
ATOM	2499	HD21	LEU	L	53	-8.938	-10.119	-0.147	1.00	0.14	H
ATOM	2500	HD22	LEU	L	53	-8.139	-8.590	-0.580	1.00	0.14	H
ATOM	2501	HD23	LEU	L	53	-7.462	-10.126	-1.134	1.00	0.14	H
ATOM	2502	N	ILE	L	54	-8.757	-6.998	4.349	1.00	0.24	N
ATOM	2503	H	ILE	L	54	-7.822	-6.649	4.177	1.00	0.24	H
ATOM	2504	CA	ILE	L	54	-9.324	-6.804	5.687	1.00	0.24	C
ATOM	2505	HA	ILE	L	54	-10.407	-6.798	5.591	1.00	0.24	H
ATOM	2506	C	ILE	L	54	-8.912	-5.439	6.229	1.00	0.24	C
ATOM	2507	CB	ILE	L	54	-8.921	-7.968	6.635	1.00	0.24	C
ATOM	2508	HB	ILE	L	54	-7.839	-8.062	6.618	1.00	0.24	H
ATOM	2509	O	ILE	L	54	-7.743	-5.066	6.128	1.00	0.24	O
ATOM	2510	CG1	ILE	L	54	-9.522	-9.294	6.106	1.00	0.24	C
ATOM	2511	HG12	ILE	L	54	-10.567	-9.131	5.854	1.00	0.24	H
ATOM	2512	HG13	ILE	L	54	-8.990	-9.581	5.199	1.00	0.24	H
ATOM	2513	CG2	ILE	L	54	-9.311	-7.710	8.105	1.00	0.24	C
ATOM	2514	HG21	ILE	L	54	-10.394	-7.666	8.196	1.00	0.24	H
ATOM	2515	HG22	ILE	L	54	-8.882	-6.777	8.466	1.00	0.24	H
ATOM	2516	HG23	ILE	L	54	-8.932	-8.504	8.745	1.00	0.24	H
ATOM	2517	CD1	ILE	L	54	-9.477	-10.490	7.051	1.00	0.24	C
ATOM	2518	HD11	ILE	L	54	-10.209	-10.341	7.843	1.00	0.24	H
ATOM	2519	HD12	ILE	L	54	-8.479	-10.596	7.474	1.00	0.24	H
ATOM	2520	HD13	ILE	L	54	-9.738	-11.396	6.502	1.00	0.24	H
ATOM	2521	N	SER	L	55	-9.841	-4.736	6.869	1.00	0.26	N
ATOM	2522	H	SER	L	55	-10.790	-5.105	6.876	1.00	0.26	H
ATOM	2523	CA	SER	L	55	-9.610	-3.505	7.633	1.00	0.26	C
ATOM	2524	HA	SER	L	55	-8.545	-3.280	7.638	1.00	0.26	H
ATOM	2525	C	SER	L	55	-10.048	-3.678	9.098	1.00	0.26	C
ATOM	2526	CB	SER	L	55	-10.319	-2.331	6.946	1.00	0.26	C
ATOM	2527	HB2	SER	L	55	-9.967	-2.240	5.918	1.00	0.26	H

ATOM	2528	HB3	SER	L	55	-10.085	-1.408	7.475	1.00	0.26	H
ATOM	2529	O	SER	L	55	-10.634	-4.692	9.487	1.00	0.26	O
ATOM	2530	OG	SER	L	55	-11.715	-2.520	6.949	1.00	0.26	O
ATOM	2531	HG	SER	L	55	-11.966	-2.764	6.015	1.00	0.26	H
ATOM	2532	N	GLY	L	56	-9.695	-2.727	9.973	1.00	0.37	N
ATOM	2533	H	GLY	L	56	-9.186	-1.930	9.627	1.00	0.37	H
ATOM	2534	CA	GLY	L	56	-10.068	-2.769	11.400	1.00	0.37	C
ATOM	2535	HA2	GLY	L	56	-11.151	-2.664	11.487	1.00	0.37	H
ATOM	2536	HA3	GLY	L	56	-9.597	-1.932	11.913	1.00	0.37	H
ATOM	2537	C	GLY	L	56	-9.653	-4.061	12.126	1.00	0.37	C
ATOM	2538	O	GLY	L	56	-10.389	-4.567	12.975	1.00	0.37	O
ATOM	2539	N	ALA	L	57	-8.528	-4.651	11.712	1.00	0.21	N
ATOM	2540	H	ALA	L	57	-8.006	-4.159	10.995	1.00	0.21	H
ATOM	2541	CA	ALA	L	57	-7.989	-5.951	12.118	1.00	0.21	C
ATOM	2542	HA	ALA	L	57	-7.090	-6.113	11.522	1.00	0.21	H
ATOM	2543	C	ALA	L	57	-8.885	-7.183	11.856	1.00	0.21	C
ATOM	2544	CB	ALA	L	57	-7.547	-5.864	13.585	1.00	0.21	C
ATOM	2545	HB1	ALA	L	57	-6.864	-5.027	13.725	1.00	0.21	H
ATOM	2546	HB2	ALA	L	57	-8.417	-5.733	14.226	1.00	0.21	H
ATOM	2547	HB3	ALA	L	57	-7.043	-6.788	13.865	1.00	0.21	H
ATOM	2548	O	ALA	L	57	-8.422	-8.302	12.065	1.00	0.21	O
ATOM	2549	N	THR	L	65	-10.140	-7.011	11.430	1.00	0.35	N
ATOM	2550	H	THR	L	65	-10.423	-6.067	11.200	1.00	0.35	H
ATOM	2551	CA	THR	L	65	-11.196	-8.042	11.524	1.00	0.35	C
ATOM	2552	HA	THR	L	65	-10.755	-9.033	11.437	1.00	0.35	H
ATOM	2553	C	THR	L	65	-12.283	-7.947	10.447	1.00	0.35	C
ATOM	2554	CB	THR	L	65	-11.904	-7.955	12.889	1.00	0.35	C
ATOM	2555	HB	THR	L	65	-12.749	-8.645	12.883	1.00	0.35	H
ATOM	2556	O	THR	L	65	-12.884	-8.966	10.119	1.00	0.35	O
ATOM	2557	CG2	THR	L	65	-11.017	-8.319	14.080	1.00	0.35	C
ATOM	2558	HG21	THR	L	65	-10.569	-9.299	13.913	1.00	0.35	H
ATOM	2559	HG22	THR	L	65	-11.630	-8.361	14.981	1.00	0.35	H
ATOM	2560	HG23	THR	L	65	-10.232	-7.578	14.219	1.00	0.35	H
ATOM	2561	OG1	THR	L	65	-12.392	-6.645	13.105	1.00	0.35	O
ATOM	2562	HG1	THR	L	65	-11.641	-6.039	13.197	1.00	0.35	H
ATOM	2563	N	SER	L	66	-12.543	-6.761	9.886	1.00	0.29	N
ATOM	2564	H	SER	L	66	-11.910	-5.990	10.054	1.00	0.29	H
ATOM	2565	CA	SER	L	66	-13.625	-6.522	8.922	1.00	0.29	C
ATOM	2566	HA	SER	L	66	-14.498	-7.107	9.212	1.00	0.29	H
ATOM	2567	C	SER	L	66	-13.211	-6.931	7.511	1.00	0.29	C
ATOM	2568	CB	SER	L	66	-14.029	-5.045	8.941	1.00	0.29	C
ATOM	2569	HB2	SER	L	66	-14.808	-4.869	8.197	1.00	0.29	H
ATOM	2570	HB3	SER	L	66	-13.168	-4.417	8.704	1.00	0.29	H

ATOM	2571	O	SER	L	66	-12.237	-6.410	6.978	1.00	0.29	O
ATOM	2572	OG	SER	L	66	-14.528	-4.721	10.227	1.00	0.29	O
ATOM	2573	HG	SER	L	66	-13.861	-4.958	10.877	1.00	0.29	H
ATOM	2574	N	LEU	L	67	-13.939	-7.878	6.920	1.00	0.23	N
ATOM	2575	H	LEU	L	67	-14.739	-8.237	7.414	1.00	0.23	H
ATOM	2576	CA	LEU	L	67	-13.681	-8.418	5.584	1.00	0.23	C
ATOM	2577	HA	LEU	L	67	-12.607	-8.535	5.460	1.00	0.23	H
ATOM	2578	C	LEU	L	67	-14.186	-7.467	4.489	1.00	0.23	C
ATOM	2579	CB	LEU	L	67	-14.356	-9.801	5.514	1.00	0.23	C
ATOM	2580	HB2	LEU	L	67	-15.437	-9.651	5.541	1.00	0.23	H
ATOM	2581	HB3	LEU	L	67	-14.079	-10.378	6.398	1.00	0.23	H
ATOM	2582	O	LEU	L	67	-15.353	-7.077	4.509	1.00	0.23	O
ATOM	2583	CG	LEU	L	67	-14.011	-10.633	4.269	1.00	0.23	C
ATOM	2584	HG	LEU	L	67	-14.202	-10.047	3.373	1.00	0.23	H
ATOM	2585	CD1	LEU	L	67	-12.550	-11.085	4.297	1.00	0.23	C
ATOM	2586	HD11	LEU	L	67	-12.314	-11.540	5.259	1.00	0.23	H
ATOM	2587	HD12	LEU	L	67	-11.895	-10.235	4.117	1.00	0.23	H
ATOM	2588	HD13	LEU	L	67	-12.388	-11.824	3.518	1.00	0.23	H
ATOM	2589	CD2	LEU	L	67	-14.883	-11.888	4.223	1.00	0.23	C
ATOM	2590	HD21	LEU	L	67	-15.934	-11.602	4.207	1.00	0.23	H
ATOM	2591	HD22	LEU	L	67	-14.683	-12.515	5.092	1.00	0.23	H
ATOM	2592	HD23	LEU	L	67	-14.663	-12.446	3.312	1.00	0.23	H
ATOM	2593	N	GLU	L	68	-13.328	-7.111	3.532	1.00	0.27	N
ATOM	2594	H	GLU	L	68	-12.376	-7.457	3.563	1.00	0.27	H
ATOM	2595	CA	GLU	L	68	-13.694	-6.176	2.466	1.00	0.27	C
ATOM	2596	HA	GLU	L	68	-14.243	-5.357	2.932	1.00	0.27	H
ATOM	2597	C	GLU	L	68	-14.654	-6.756	1.418	1.00	0.27	C
ATOM	2598	CB	GLU	L	68	-12.443	-5.597	1.784	1.00	0.27	C
ATOM	2599	HB2	GLU	L	68	-11.797	-6.407	1.448	1.00	0.27	H
ATOM	2600	HB3	GLU	L	68	-12.748	-5.036	0.899	1.00	0.27	H
ATOM	2601	O	GLU	L	68	-14.782	-7.969	1.217	1.00	0.27	O
ATOM	2602	CG	GLU	L	68	-11.635	-4.650	2.678	1.00	0.27	C
ATOM	2603	HG2	GLU	L	68	-10.887	-4.192	2.037	1.00	0.27	H
ATOM	2604	HG3	GLU	L	68	-11.123	-5.232	3.447	1.00	0.27	H
ATOM	2605	CD	GLU	L	68	-12.470	-3.539	3.335	1.00	0.27	C
ATOM	2606	OE1	GLU	L	68	-13.453	-3.096	2.695	1.00	0.27	O
ATOM	2607	OE2	GLU	L	68	-12.117	-3.145	4.472	1.00	0.27	O
ATOM	2608	N	THR	L	69	-15.323	-5.850	0.701	1.00	0.39	N
ATOM	2609	H	THR	L	69	-15.118	-4.876	0.883	1.00	0.39	H
ATOM	2610	CA	THR	L	69	-16.329	-6.204	-0.310	1.00	0.39	C
ATOM	2611	HA	THR	L	69	-17.126	-6.742	0.203	1.00	0.39	H
ATOM	2612	C	THR	L	69	-15.751	-7.135	-1.386	1.00	0.39	C
ATOM	2613	CB	THR	L	69	-16.958	-4.946	-0.926	1.00	0.39	C

ATOM	2614	HB	THR L	69	-16.173	-4.292	-1.307	1.00	0.39	H
ATOM	2615	O	THR L	69	-14.716	-6.868	-2.004	1.00	0.39	O
ATOM	2616	CG2	THR L	69	-17.949	-5.244	-2.053	1.00	0.39	C
ATOM	2617	HG21	THR L	69	-18.710	-5.942	-1.707	1.00	0.39	H
ATOM	2618	HG22	THR L	69	-18.432	-4.316	-2.360	1.00	0.39	H
ATOM	2619	HG23	THR L	69	-17.427	-5.659	-2.915	1.00	0.39	H
ATOM	2620	OG1	THR L	69	-17.694	-4.268	0.065	1.00	0.39	O
ATOM	2621	HG1	THR L	69	-17.092	-3.981	0.758	1.00	0.39	H
ATOM	2622	N	GLY L	70	-16.439	-8.257	-1.621	1.00	0.26	N
ATOM	2623	H	GLY L	70	-17.252	-8.440	-1.051	1.00	0.26	H
ATOM	2624	CA	GLY L	70	-16.058	-9.253	-2.625	1.00	0.26	C
ATOM	2625	HA2	GLY L	70	-16.879	-9.961	-2.740	1.00	0.26	H
ATOM	2626	HA3	GLY L	70	-15.902	-8.754	-3.582	1.00	0.26	H
ATOM	2627	C	GLY L	70	-14.795	-10.059	-2.291	1.00	0.26	C
ATOM	2628	O	GLY L	70	-14.169	-10.605	-3.204	1.00	0.26	O
ATOM	2629	N	VAL L	71	-14.335	-10.082	-1.038	1.00	0.22	N
ATOM	2630	H	VAL L	71	-14.807	-9.533	-0.323	1.00	0.22	H
ATOM	2631	CA	VAL L	71	-13.288	-11.014	-0.582	1.00	0.22	C
ATOM	2632	HA	VAL L	71	-12.600	-11.192	-1.402	1.00	0.22	H
ATOM	2633	C	VAL L	71	-13.942	-12.339	-0.152	1.00	0.22	C
ATOM	2634	CB	VAL L	71	-12.458	-10.414	0.566	1.00	0.22	C
ATOM	2635	HB	VAL L	71	-13.107	-10.242	1.420	1.00	0.22	H
ATOM	2636	O	VAL L	71	-14.972	-12.305	0.523	1.00	0.22	O
ATOM	2637	CG1	VAL L	71	-11.320	-11.356	0.986	1.00	0.22	C
ATOM	2638	HG11	VAL L	71	-11.724	-12.283	1.391	1.00	0.22	H
ATOM	2639	HG12	VAL L	71	-10.722	-10.882	1.765	1.00	0.22	H
ATOM	2640	HG13	VAL L	71	-10.683	-11.590	0.135	1.00	0.22	H
ATOM	2641	CG2	VAL L	71	-11.821	-9.082	0.162	1.00	0.22	C
ATOM	2642	HG21	VAL L	71	-12.576	-8.377	-0.181	1.00	0.22	H
ATOM	2643	HG22	VAL L	71	-11.358	-8.648	1.042	1.00	0.22	H
ATOM	2644	HG23	VAL L	71	-11.075	-9.228	-0.615	1.00	0.22	H
ATOM	2645	N	PRO L	72	-13.400	-13.519	-0.516	1.00	0.29	N
ATOM	2646	CA	PRO L	72	-13.967	-14.798	-0.087	1.00	0.29	C
ATOM	2647	HA	PRO L	72	-14.998	-14.849	-0.438	1.00	0.29	H
ATOM	2648	C	PRO L	72	-13.939	-14.985	1.439	1.00	0.29	C
ATOM	2649	CB	PRO L	72	-13.143	-15.878	-0.800	1.00	0.29	C
ATOM	2650	HB2	PRO L	72	-12.312	-16.194	-0.170	1.00	0.29	H
ATOM	2651	HB3	PRO L	72	-13.755	-16.735	-1.083	1.00	0.29	H
ATOM	2652	O	PRO L	72	-12.922	-14.737	2.085	1.00	0.29	O
ATOM	2653	CG	PRO L	72	-12.579	-15.156	-2.021	1.00	0.29	C
ATOM	2654	HG2	PRO L	72	-13.329	-15.128	-2.812	1.00	0.29	H
ATOM	2655	HG3	PRO L	72	-11.657	-15.619	-2.376	1.00	0.29	H
ATOM	2656	CD	PRO L	72	-12.338	-13.746	-1.487	1.00	0.29	C

ATOM	2657	HD2 PRO L	72	-11.369	-13.698	-0.987	1.00	0.29	H
ATOM	2658	HD3 PRO L	72	-12.380	-13.038	-2.314	1.00	0.29	H
ATOM	2659	N SER L	74	-15.015	-15.538	2.008	1.00	0.26	N
ATOM	2660	H SER L	74	-15.803	-15.766	1.420	1.00	0.26	H
ATOM	2661	CA SER L	74	-15.205	-15.749	3.457	1.00	0.26	C
ATOM	2662	HA SER L	74	-15.046	-14.796	3.963	1.00	0.26	H
ATOM	2663	C SER L	74	-14.248	-16.757	4.115	1.00	0.26	C
ATOM	2664	CB SER L	74	-16.655	-16.179	3.706	1.00	0.26	C
ATOM	2665	HB2 SER L	74	-17.325	-15.418	3.304	1.00	0.26	H
ATOM	2666	HB3 SER L	74	-16.840	-16.269	4.778	1.00	0.26	H
ATOM	2667	O SER L	74	-14.420	-17.086	5.286	1.00	0.26	O
ATOM	2668	OG SER L	74	-16.917	-17.414	3.067	1.00	0.26	O
ATOM	2669	HG SER L	74	-16.667	-18.122	3.672	1.00	0.26	H
ATOM	2670	N ARG L	75	-13.263	-17.281	3.376	1.00	0.20	N
ATOM	2671	H ARG L	75	-13.180	-16.940	2.430	1.00	0.20	H
ATOM	2672	CA ARG L	75	-12.190	-18.134	3.908	1.00	0.20	C
ATOM	2673	HA ARG L	75	-12.611	-18.731	4.720	1.00	0.20	H
ATOM	2674	C ARG L	75	-11.039	-17.340	4.540	1.00	0.20	C
ATOM	2675	CB ARG L	75	-11.728	-19.120	2.822	1.00	0.20	C
ATOM	2676	HB2 ARG L	75	-12.609	-19.588	2.379	1.00	0.20	H
ATOM	2677	HB3 ARG L	75	-11.163	-19.905	3.309	1.00	0.20	H
ATOM	2678	O ARG L	75	-10.253	-17.930	5.283	1.00	0.20	O
ATOM	2679	CG ARG L	75	-10.868	-18.511	1.706	1.00	0.20	C
ATOM	2680	HG2 ARG L	75	-11.395	-17.664	1.272	1.00	0.20	H
ATOM	2681	HG3 ARG L	75	-9.922	-18.160	2.120	1.00	0.20	H
ATOM	2682	CD ARG L	75	-10.578	-19.539	0.602	1.00	0.20	C
ATOM	2683	HD2 ARG L	75	-9.968	-20.347	1.014	1.00	0.20	H
ATOM	2684	HD3 ARG L	75	-11.518	-19.963	0.247	1.00	0.20	H
ATOM	2685	NE ARG L	75	-9.850	-18.901	-0.505	1.00	0.20	N
ATOM	2686	HE ARG L	75	-8.860	-18.694	-0.344	1.00	0.20	H
ATOM	2687	NH1 ARG L	75	-11.295	-19.222	-2.293	1.00	0.20	N
ATOM	2688	HH11 ARG L	75	-11.720	-20.021	-1.844	1.00	0.20	H
ATOM	2689	HH12 ARG L	75	-11.305	-19.190	-3.306	1.00	0.20	H
ATOM	2690	NH2 ARG L	75	-9.531	-17.980	-2.543	1.00	0.20	N
ATOM	2691	HH21 ARG L	75	-8.633	-17.631	-2.201	1.00	0.20	H
ATOM	2692	HH22 ARG L	75	-9.690	-18.092	-3.538	1.00	0.20	H
ATOM	2693	CZ ARG L	75	-10.235	-18.708	-1.749	1.00	0.20	C
ATOM	2694	N PHE L	76	-10.960	-16.034	4.255	1.00	0.14	N
ATOM	2695	H PHE L	76	-11.668	-15.648	3.645	1.00	0.14	H
ATOM	2696	CA PHE L	76	-10.083	-15.068	4.921	1.00	0.14	C
ATOM	2697	HA PHE L	76	-9.139	-15.552	5.172	1.00	0.14	H
ATOM	2698	C PHE L	76	-10.719	-14.538	6.212	1.00	0.14	C
ATOM	2699	CB PHE L	76	-9.795	-13.895	3.971	1.00	0.14	C

ATOM	2700	HB2	PHE	L	76	-10.738	-13.502	3.589	1.00	0.14	H
ATOM	2701	HB3	PHE	L	76	-9.316	-13.094	4.536	1.00	0.14	H
ATOM	2702	O	PHE	L	76	-11.889	-14.163	6.222	1.00	0.14	O
ATOM	2703	CG	PHE	L	76	-8.895	-14.254	2.809	1.00	0.14	C
ATOM	2704	CD1	PHE	L	76	-7.501	-14.243	2.992	1.00	0.14	C
ATOM	2705	HD1	PHE	L	76	-7.081	-13.990	3.952	1.00	0.14	H
ATOM	2706	CD2	PHE	L	76	-9.434	-14.615	1.559	1.00	0.14	C
ATOM	2707	HD2	PHE	L	76	-10.503	-14.633	1.416	1.00	0.14	H
ATOM	2708	CE1	PHE	L	76	-6.649	-14.579	1.930	1.00	0.14	C
ATOM	2709	HE1	PHE	L	76	-5.581	-14.579	2.074	1.00	0.14	H
ATOM	2710	CE2	PHE	L	76	-8.579	-14.969	0.500	1.00	0.14	C
ATOM	2711	HE2	PHE	L	76	-8.982	-15.278	-0.454	1.00	0.14	H
ATOM	2712	CZ	PHE	L	76	-7.187	-14.946	0.687	1.00	0.14	C
ATOM	2713	HZ	PHE	L	76	-6.528	-15.234	-0.120	1.00	0.14	H
ATOM	2714	N	SER	L	77	-9.935	-14.443	7.289	1.00	0.16	N
ATOM	2715	H	SER	L	77	-9.011	-14.861	7.246	1.00	0.16	H
ATOM	2716	CA	SER	L	77	-10.394	-13.890	8.572	1.00	0.16	C
ATOM	2717	HA	SER	L	77	-11.188	-13.167	8.378	1.00	0.16	H
ATOM	2718	C	SER	L	77	-9.271	-13.175	9.324	1.00	0.16	C
ATOM	2719	CB	SER	L	77	-10.982	-14.999	9.453	1.00	0.16	C
ATOM	2720	HB2	SER	L	77	-11.782	-15.512	8.916	1.00	0.16	H
ATOM	2721	HB3	SER	L	77	-11.399	-14.553	10.358	1.00	0.16	H
ATOM	2722	O	SER	L	77	-8.185	-13.734	9.504	1.00	0.16	O
ATOM	2723	OG	SER	L	77	-9.977	-15.930	9.814	1.00	0.16	O
ATOM	2724	HG	SER	L	77	-9.182	-15.420	10.014	1.00	0.16	H
ATOM	2725	N	GLY	L	78	-9.551	-11.964	9.803	1.00	0.11	N
ATOM	2726	H	GLY	L	78	-10.482	-11.599	9.658	1.00	0.11	H
ATOM	2727	CA	GLY	L	78	-8.645	-11.162	10.622	1.00	0.11	C
ATOM	2728	HA2	GLY	L	78	-8.813	-10.108	10.415	1.00	0.11	H
ATOM	2729	HA3	GLY	L	78	-7.610	-11.395	10.369	1.00	0.11	H
ATOM	2730	C	GLY	L	78	-8.864	-11.406	12.113	1.00	0.11	C
ATOM	2731	O	GLY	L	78	-9.939	-11.827	12.537	1.00	0.11	O
ATOM	2732	N	SER	L	79	-7.827	-11.179	12.913	1.00	0.22	N
ATOM	2733	H	SER	L	79	-6.978	-10.806	12.510	1.00	0.22	H
ATOM	2734	CA	SER	L	79	-7.824	-11.459	14.348	1.00	0.22	C
ATOM	2735	HA	SER	L	79	-8.778	-11.153	14.779	1.00	0.22	H
ATOM	2736	C	SER	L	79	-6.701	-10.703	15.054	1.00	0.22	C
ATOM	2737	CB	SER	L	79	-7.641	-12.967	14.559	1.00	0.22	C
ATOM	2738	HB2	SER	L	79	-8.470	-13.503	14.093	1.00	0.22	H
ATOM	2739	HB3	SER	L	79	-7.635	-13.196	15.626	1.00	0.22	H
ATOM	2740	O	SER	L	79	-5.723	-10.294	14.422	1.00	0.22	O
ATOM	2741	OG	SER	L	79	-6.419	-13.392	13.976	1.00	0.22	O
ATOM	2742	HG	SER	L	79	-6.371	-12.995	13.085	1.00	0.22	H

ATOM	2743	N	GLY	L	80	-6.825	-10.574	16.375	1.00	0.30		N
ATOM	2744	H	GLY	L	80	-7.684	-10.869	16.811	1.00	0.30		H
ATOM	2745	CA	GLY	L	80	-5.802	-10.001	17.243	1.00	0.30		C
ATOM	2746	HA2	GLY	L	80	-5.531	-10.724	18.012	1.00	0.30		H
ATOM	2747	HA3	GLY	L	80	-4.908	-9.780	16.672	1.00	0.30		H
ATOM	2748	C	GLY	L	80	-6.224	-8.710	17.925	1.00	0.30		C
ATOM	2749	O	GLY	L	80	-7.333	-8.203	17.734	1.00	0.30		O
ATOM	2750	N	SER	L	83	-5.326	-8.202	18.757	1.00	0.30		N
ATOM	2751	H	SER	L	83	-4.404	-8.629	18.793	1.00	0.30		H
ATOM	2752	CA	SER	L	83	-5.579	-7.060	19.630	1.00	0.30		C
ATOM	2753	HA	SER	L	83	-6.071	-6.278	19.055	1.00	0.30		H
ATOM	2754	C	SER	L	83	-4.281	-6.503	20.193	1.00	0.30		C
ATOM	2755	CB	SER	L	83	-6.488	-7.464	20.798	1.00	0.30		C
ATOM	2756	HB2	SER	L	83	-6.624	-6.611	21.464	1.00	0.30		H
ATOM	2757	HB3	SER	L	83	-7.465	-7.760	20.415	1.00	0.30		H
ATOM	2758	O	SER	L	83	-3.324	-7.237	20.446	1.00	0.30		O
ATOM	2759	OG	SER	L	83	-5.927	-8.546	21.523	1.00	0.30		O
ATOM	2760	HG	SER	L	83	-4.987	-8.377	21.660	1.00	0.30		H
ATOM	2761	N	GLY	L	84	-4.280	-5.204	20.467	1.00	0.31		N
ATOM	2762	H	GLY	L	84	-5.089	-4.652	20.217	1.00	0.31		H
ATOM	2763	CA	GLY	L	84	-3.132	-4.512	21.032	1.00	0.31		C
ATOM	2764	HA2	GLY	L	84	-2.789	-5.017	21.935	1.00	0.31		H
ATOM	2765	HA3	GLY	L	84	-3.446	-3.511	21.311	1.00	0.31		H
ATOM	2766	C	GLY	L	84	-1.983	-4.418	20.028	1.00	0.31		C
ATOM	2767	O	GLY	L	84	-2.010	-3.592	19.108	1.00	0.31		O
ATOM	2768	N	LYS	L	85	-1.002	-5.319	20.162	1.00	0.28		N
ATOM	2769	H	LYS	L	85	-1.102	-5.995	20.905	1.00	0.28		H
ATOM	2770	CA	LYS	L	85	0.188	-5.387	19.301	1.00	0.28		C
ATOM	2771	HA	LYS	L	85	0.202	-4.516	18.645	1.00	0.28		H
ATOM	2772	C	LYS	L	85	0.230	-6.584	18.356	1.00	0.28		C
ATOM	2773	CB	LYS	L	85	1.450	-5.327	20.172	1.00	0.28		C
ATOM	2774	HB2	LYS	L	85	2.325	-5.487	19.544	1.00	0.28		H
ATOM	2775	HB3	LYS	L	85	1.418	-6.112	20.930	1.00	0.28		H
ATOM	2776	O	LYS	L	85	0.926	-6.493	17.351	1.00	0.28		O
ATOM	2777	CG	LYS	L	85	1.547	-3.950	20.842	1.00	0.28		C
ATOM	2778	HG2	LYS	L	85	0.721	-3.828	21.545	1.00	0.28		H
ATOM	2779	HG3	LYS	L	85	1.475	-3.178	20.075	1.00	0.28		H
ATOM	2780	CD	LYS	L	85	2.864	-3.766	21.591	1.00	0.28		C
ATOM	2781	HD2	LYS	L	85	2.999	-4.573	22.312	1.00	0.28		H
ATOM	2782	HD3	LYS	L	85	3.684	-3.772	20.870	1.00	0.28		H
ATOM	2783	CE	LYS	L	85	2.801	-2.420	22.313	1.00	0.28		C
ATOM	2784	HE2	LYS	L	85	2.437	-1.677	21.601	1.00	0.28		H
ATOM	2785	HE3	LYS	L	85	2.068	-2.486	23.124	1.00	0.28		H

ATOM	2786	NZ	LYS	L	85	4.132	-2.017	22.821	1.00	0.28	N
ATOM	2787	HZ1	LYS	L	85	4.776	-1.933	22.031	1.00	0.28	H
ATOM	2788	HZ2	LYS	L	85	4.087	-1.120	23.282	1.00	0.28	H
ATOM	2789	HZ3	LYS	L	85	4.500	-2.709	23.454	1.00	0.28	H
ATOM	2790	N	ASP	L	86	-0.503	-7.663	18.621	1.00	0.27	N
ATOM	2791	H	ASP	L	86	-1.132	-7.644	19.409	1.00	0.27	H
ATOM	2792	CA	ASP	L	86	-0.348	-8.934	17.904	1.00	0.27	C
ATOM	2793	HA	ASP	L	86	0.462	-8.835	17.179	1.00	0.27	H
ATOM	2794	C	ASP	L	86	-1.608	-9.284	17.112	1.00	0.27	C
ATOM	2795	CB	ASP	L	86	0.079	-10.063	18.857	1.00	0.27	C
ATOM	2796	HB2	ASP	L	86	-0.667	-10.170	19.646	1.00	0.27	H
ATOM	2797	HB3	ASP	L	86	0.112	-10.998	18.294	1.00	0.27	H
ATOM	2798	O	ASP	L	86	-2.708	-9.361	17.666	1.00	0.27	O
ATOM	2799	CG	ASP	L	86	1.452	-9.817	19.497	1.00	0.27	C
ATOM	2800	OD1	ASP	L	86	2.359	-10.667	19.342	1.00	0.27	O
ATOM	2801	OD2	ASP	L	86	1.685	-8.762	20.136	1.00	0.27	O
ATOM	2802	N	TYR	L	87	-1.430	-9.495	15.806	1.00	0.20	N
ATOM	2803	H	TYR	L	87	-0.493	-9.398	15.425	1.00	0.20	H
ATOM	2804	CA	TYR	L	87	-2.505	-9.668	14.834	1.00	0.20	C
ATOM	2805	HA	TYR	L	87	-3.415	-9.926	15.362	1.00	0.20	H
ATOM	2806	C	TYR	L	87	-2.214	-10.807	13.866	1.00	0.20	C
ATOM	2807	CB	TYR	L	87	-2.748	-8.354	14.080	1.00	0.20	C
ATOM	2808	HB2	TYR	L	87	-3.555	-8.507	13.363	1.00	0.20	H
ATOM	2809	HB3	TYR	L	87	-1.851	-8.096	13.515	1.00	0.20	H
ATOM	2810	O	TYR	L	87	-1.059	-11.091	13.539	1.00	0.20	O
ATOM	2811	CG	TYR	L	87	-3.117	-7.194	14.983	1.00	0.20	C
ATOM	2812	CD1	TYR	L	87	-2.112	-6.361	15.510	1.00	0.20	C
ATOM	2813	HD1	TYR	L	87	-1.073	-6.543	15.265	1.00	0.20	H
ATOM	2814	CD2	TYR	L	87	-4.463	-6.985	15.336	1.00	0.20	C
ATOM	2815	HD2	TYR	L	87	-5.225	-7.655	14.965	1.00	0.20	H
ATOM	2816	CE1	TYR	L	87	-2.454	-5.312	16.382	1.00	0.20	C
ATOM	2817	HE1	TYR	L	87	-1.679	-4.684	16.793	1.00	0.20	H
ATOM	2818	CE2	TYR	L	87	-4.809	-5.927	16.198	1.00	0.20	C
ATOM	2819	HE2	TYR	L	87	-5.835	-5.777	16.490	1.00	0.20	H
ATOM	2820	OH	TYR	L	87	-4.138	-4.063	17.551	1.00	0.20	O
ATOM	2821	HH	TYR	L	87	-3.361	-3.783	18.070	1.00	0.20	H
ATOM	2822	CZ	TYR	L	87	-3.805	-5.084	16.719	1.00	0.20	C
ATOM	2823	N	THR	L	88	-3.269	-11.456	13.374	1.00	0.21	N
ATOM	2824	H	THR	L	88	-4.199	-11.169	13.671	1.00	0.21	H
ATOM	2825	CA	THR	L	88	-3.145	-12.558	12.415	1.00	0.21	C
ATOM	2826	HA	THR	L	88	-2.190	-12.427	11.914	1.00	0.21	H
ATOM	2827	C	THR	L	88	-4.201	-12.482	11.321	1.00	0.21	C
ATOM	2828	CB	THR	L	88	-3.072	-13.962	13.067	1.00	0.21	C

ATOM	2829	HB	THR L	88	-2.253	-14.480	12.573	1.00	0.21	H
ATOM	2830	O	THR L	88	-5.388	-12.284	11.603	1.00	0.21	O
ATOM	2831	CG2	THR L	88	-2.784	-14.001	14.569	1.00	0.21	C
ATOM	2832	HG21	THR L	88	-2.698	-15.037	14.895	1.00	0.21	H
ATOM	2833	HG22	THR L	88	-3.589	-13.518	15.124	1.00	0.21	H
ATOM	2834	HG23	THR L	88	-1.842	-13.494	14.780	1.00	0.21	H
ATOM	2835	OG1	THR L	88	-4.241	-14.733	12.880	1.00	0.21	O
ATOM	2836	HG1	THR L	88	-4.926	-14.352	13.456	1.00	0.21	H
ATOM	2837	N	LEU L	89	-3.767	-12.664	10.075	1.00	0.14	N
ATOM	2838	H	LEU L	89	-2.768	-12.791	9.938	1.00	0.14	H
ATOM	2839	CA	LEU L	89	-4.629	-13.085	8.979	1.00	0.14	C
ATOM	2840	HA	LEU L	89	-5.648	-12.741	9.160	1.00	0.14	H
ATOM	2841	C	LEU L	89	-4.609	-14.609	8.942	1.00	0.14	C
ATOM	2842	CB	LEU L	89	-4.118	-12.483	7.659	1.00	0.14	C
ATOM	2843	HB2	LEU L	89	-4.112	-11.403	7.753	1.00	0.14	H
ATOM	2844	HB3	LEU L	89	-3.089	-12.810	7.504	1.00	0.14	H
ATOM	2845	O	LEU L	89	-3.538	-15.211	8.901	1.00	0.14	O
ATOM	2846	CG	LEU L	89	-4.946	-12.848	6.413	1.00	0.14	C
ATOM	2847	HG	LEU L	89	-5.050	-13.930	6.334	1.00	0.14	H
ATOM	2848	CD1	LEU L	89	-6.336	-12.212	6.472	1.00	0.14	C
ATOM	2849	HD11	LEU L	89	-6.244	-11.136	6.623	1.00	0.14	H
ATOM	2850	HD12	LEU L	89	-6.872	-12.389	5.542	1.00	0.14	H
ATOM	2851	HD13	LEU L	89	-6.913	-12.646	7.287	1.00	0.14	H
ATOM	2852	CD2	LEU L	89	-4.241	-12.340	5.156	1.00	0.14	C
ATOM	2853	HD21	LEU L	89	-4.119	-11.259	5.204	1.00	0.14	H
ATOM	2854	HD22	LEU L	89	-3.259	-12.807	5.073	1.00	0.14	H
ATOM	2855	HD23	LEU L	89	-4.822	-12.603	4.272	1.00	0.14	H
ATOM	2856	N	SER L	90	-5.774	-15.240	8.941	1.00	0.21	N
ATOM	2857	H	SER L	90	-6.627	-14.687	8.972	1.00	0.21	H
ATOM	2858	CA	SER L	90	-5.893	-16.675	8.692	1.00	0.21	C
ATOM	2859	HA	SER L	90	-4.903	-17.118	8.624	1.00	0.21	H
ATOM	2860	C	SER L	90	-6.585	-16.923	7.358	1.00	0.21	C
ATOM	2861	CB	SER L	90	-6.612	-17.369	9.845	1.00	0.21	C
ATOM	2862	HB2	SER L	90	-6.722	-18.428	9.607	1.00	0.21	H
ATOM	2863	HB3	SER L	90	-7.601	-16.933	9.980	1.00	0.21	H
ATOM	2864	O	SER L	90	-7.526	-16.209	7.008	1.00	0.21	O
ATOM	2865	OG	SER L	90	-5.854	-17.230	11.041	1.00	0.21	O
ATOM	2866	HG	SER L	90	-5.798	-16.284	11.250	1.00	0.21	H
ATOM	2867	N	ILE L	91	-6.115	-17.941	6.640	1.00	0.19	N
ATOM	2868	H	ILE L	91	-5.339	-18.477	7.020	1.00	0.19	H
ATOM	2869	CA	ILE L	91	-6.769	-18.488	5.452	1.00	0.19	C
ATOM	2870	HA	ILE L	91	-7.677	-17.917	5.250	1.00	0.19	H
ATOM	2871	C	ILE L	91	-7.155	-19.921	5.786	1.00	0.19	C

ATOM	2872	CB	ILE	L	91	-5.887	-18.434	4.185	1.00	0.19	C
ATOM	2873	HB	ILE	L	91	-5.126	-19.214	4.252	1.00	0.19	H
ATOM	2874	O	ILE	L	91	-6.303	-20.741	6.120	1.00	0.19	O
ATOM	2875	CG1	ILE	L	91	-5.157	-17.081	4.041	1.00	0.19	C
ATOM	2876	HG12	ILE	L	91	-5.883	-16.270	4.067	1.00	0.19	H
ATOM	2877	HG13	ILE	L	91	-4.474	-16.953	4.882	1.00	0.19	H
ATOM	2878	CG2	ILE	L	91	-6.782	-18.736	2.966	1.00	0.19	C
ATOM	2879	HG21	ILE	L	91	-6.187	-18.813	2.058	1.00	0.19	H
ATOM	2880	HG22	ILE	L	91	-7.516	-17.942	2.830	1.00	0.19	H
ATOM	2881	HG23	ILE	L	91	-7.300	-19.688	3.087	1.00	0.19	H
ATOM	2882	CD1	ILE	L	91	-4.320	-16.976	2.764	1.00	0.19	C
ATOM	2883	HD11	ILE	L	91	-3.678	-16.096	2.820	1.00	0.19	H
ATOM	2884	HD12	ILE	L	91	-3.706	-17.868	2.662	1.00	0.19	H
ATOM	2885	HD13	ILE	L	91	-4.964	-16.887	1.890	1.00	0.19	H
ATOM	2886	N	THR	L	92	-8.444	-20.219	5.745	1.00	0.38	N
ATOM	2887	H	THR	L	92	-9.083	-19.494	5.437	1.00	0.38	H
ATOM	2888	CA	THR	L	92	-8.941	-21.597	5.819	1.00	0.38	C
ATOM	2889	HA	THR	L	92	-8.238	-22.210	6.380	1.00	0.38	H
ATOM	2890	C	THR	L	92	-9.034	-22.179	4.407	1.00	0.38	C
ATOM	2891	CB	THR	L	92	-10.290	-21.654	6.550	1.00	0.38	C
ATOM	2892	HB	THR	L	92	-10.646	-22.685	6.543	1.00	0.38	H
ATOM	2893	O	THR	L	92	-9.365	-21.458	3.472	1.00	0.38	O
ATOM	2894	CG2	THR	L	92	-10.184	-21.188	8.003	1.00	0.38	C
ATOM	2895	HG21	THR	L	92	-9.447	-21.789	8.531	1.00	0.38	H
ATOM	2896	HG22	THR	L	92	-9.894	-20.138	8.047	1.00	0.38	H
ATOM	2897	HG23	THR	L	92	-11.153	-21.308	8.488	1.00	0.38	H
ATOM	2898	OG1	THR	L	92	-11.257	-20.838	5.935	1.00	0.38	O
ATOM	2899	HG1	THR	L	92	-10.938	-19.928	5.945	1.00	0.38	H
ATOM	2900	N	SER	L	93	-8.743	-23.473	4.232	1.00	0.43	N
ATOM	2901	H	SER	L	93	-8.379	-24.005	5.005	1.00	0.43	H
ATOM	2902	CA	SER	L	93	-8.864	-24.172	2.942	1.00	0.43	C
ATOM	2903	HA	SER	L	93	-8.363	-25.130	3.052	1.00	0.43	H
ATOM	2904	C	SER	L	93	-8.167	-23.444	1.779	1.00	0.43	C
ATOM	2905	CB	SER	L	93	-10.337	-24.481	2.644	1.00	0.43	C
ATOM	2906	HB2	SER	L	93	-10.893	-23.549	2.533	1.00	0.43	H
ATOM	2907	HB3	SER	L	93	-10.762	-25.050	3.472	1.00	0.43	H
ATOM	2908	O	SER	L	93	-8.805	-23.119	0.776	1.00	0.43	O
ATOM	2909	OG	SER	L	93	-10.453	-25.237	1.458	1.00	0.43	O
ATOM	2910	HG	SER	L	93	-10.138	-24.662	0.743	1.00	0.43	H
ATOM	2911	N	LEU	L	94	-6.865	-23.177	1.931	1.00	0.32	N
ATOM	2912	H	LEU	L	94	-6.411	-23.479	2.787	1.00	0.32	H
ATOM	2913	CA	LEU	L	94	-6.051	-22.419	0.975	1.00	0.32	C
ATOM	2914	HA	LEU	L	94	-6.317	-21.364	1.052	1.00	0.32	H

ATOM	2915	C	LEU	L	94	-6.276	-22.873	-0.477	1.00	0.32	C
ATOM	2916	CB	LEU	L	94	-4.574	-22.603	1.372	1.00	0.32	C
ATOM	2917	HB2	LEU	L	94	-4.443	-22.316	2.414	1.00	0.32	H
ATOM	2918	HB3	LEU	L	94	-4.336	-23.666	1.294	1.00	0.32	H
ATOM	2919	O	LEU	L	94	-6.048	-24.039	-0.805	1.00	0.32	O
ATOM	2920	CG	LEU	L	94	-3.583	-21.810	0.500	1.00	0.32	C
ATOM	2921	HG	LEU	L	94	-3.878	-21.841	-0.547	1.00	0.32	H
ATOM	2922	CD1	LEU	L	94	-3.519	-20.354	0.959	1.00	0.32	C
ATOM	2923	HD11	LEU	L	94	-4.508	-19.910	0.888	1.00	0.32	H
ATOM	2924	HD12	LEU	L	94	-2.831	-19.800	0.320	1.00	0.32	H
ATOM	2925	HD13	LEU	L	94	-3.183	-20.297	1.990	1.00	0.32	H
ATOM	2926	CD2	LEU	L	94	-2.191	-22.417	0.609	1.00	0.32	C
ATOM	2927	HD21	LEU	L	94	-1.883	-22.453	1.650	1.00	0.32	H
ATOM	2928	HD22	LEU	L	94	-1.482	-21.827	0.028	1.00	0.32	H
ATOM	2929	HD23	LEU	L	94	-2.199	-23.432	0.211	1.00	0.32	H
ATOM	2930	N	GLN	L	95	-6.680	-21.953	-1.352	1.00	0.37	N
ATOM	2931	H	GLN	L	95	-6.836	-21.000	-1.026	1.00	0.37	H
ATOM	2932	CA	GLN	L	95	-6.859	-22.234	-2.777	1.00	0.37	C
ATOM	2933	HA	GLN	L	95	-6.894	-23.314	-2.924	1.00	0.37	H
ATOM	2934	C	GLN	L	95	-5.685	-21.720	-3.620	1.00	0.37	C
ATOM	2935	CB	GLN	L	95	-8.202	-21.684	-3.267	1.00	0.37	C
ATOM	2936	HB2	GLN	L	95	-8.210	-20.597	-3.183	1.00	0.37	H
ATOM	2937	HB3	GLN	L	95	-8.297	-21.969	-4.314	1.00	0.37	H
ATOM	2938	O	GLN	L	95	-4.889	-20.889	-3.187	1.00	0.37	O
ATOM	2939	CG	GLN	L	95	-9.392	-22.280	-2.494	1.00	0.37	C
ATOM	2940	HG2	GLN	L	95	-9.401	-21.870	-1.485	1.00	0.37	H
ATOM	2941	HG3	GLN	L	95	-9.256	-23.359	-2.424	1.00	0.37	H
ATOM	2942	CD	GLN	L	95	-10.760	-22.024	-3.127	1.00	0.37	C
ATOM	2943	NE2	GLN	L	95	-10.872	-21.646	-4.382	1.00	0.37	N
ATOM	2944	HE21	GLN	L	95	-11.795	-21.487	-4.733	1.00	0.37	H
ATOM	2945	HE22	GLN	L	95	-10.063	-21.304	-4.897	1.00	0.37	H
ATOM	2946	OE1	GLN	L	95	-11.782	-22.067	-2.459	1.00	0.37	O
ATOM	2947	N	THR	L	96	-5.588	-22.181	-4.867	1.00	0.34	N
ATOM	2948	H	THR	L	96	-6.297	-22.815	-5.209	1.00	0.34	H
ATOM	2949	CA	THR	L	96	-4.528	-21.786	-5.812	1.00	0.34	C
ATOM	2950	HA	THR	L	96	-3.560	-22.109	-5.427	1.00	0.34	H
ATOM	2951	C	THR	L	96	-4.448	-20.277	-6.026	1.00	0.34	C
ATOM	2952	CB	THR	L	96	-4.767	-22.436	-7.184	1.00	0.34	C
ATOM	2953	HB	THR	L	96	-4.194	-21.899	-7.941	1.00	0.34	H
ATOM	2954	O	THR	L	96	-3.365	-19.730	-6.214	1.00	0.34	O
ATOM	2955	CG2	THR	L	96	-4.340	-23.900	-7.216	1.00	0.34	C
ATOM	2956	HG21	THR	L	96	-4.928	-24.475	-6.501	1.00	0.34	H
ATOM	2957	HG22	THR	L	96	-4.507	-24.303	-8.215	1.00	0.34	H

ATOM	2958	HG23	THR	L	96	-3.281	-23.981	-6.975	1.00	0.34		H
ATOM	2959	OG1	THR	L	96	-6.138	-22.414	-7.535	1.00	0.34		O
ATOM	2960	HG1	THR	L	96	-6.503	-21.529	-7.419	1.00	0.34		H
ATOM	2961	N	GLU	L	97	-5.581	-19.575	-5.999	1.00	0.19		N
ATOM	2962	H	GLU	L	97	-6.470	-20.052	-5.839	1.00	0.19		H
ATOM	2963	CA	GLU	L	97	-5.618	-18.126	-6.147	1.00	0.19		C
ATOM	2964	HA	GLU	L	97	-4.833	-17.867	-6.856	1.00	0.19		H
ATOM	2965	C	GLU	L	97	-5.272	-17.357	-4.857	1.00	0.19		C
ATOM	2966	CB	GLU	L	97	-6.944	-17.680	-6.794	1.00	0.19		C
ATOM	2967	HB2	GLU	L	97	-6.791	-16.661	-7.152	1.00	0.19		H
ATOM	2968	HB3	GLU	L	97	-7.144	-18.291	-7.676	1.00	0.19		H
ATOM	2969	O	GLU	L	97	-5.185	-16.131	-4.913	1.00	0.19		O
ATOM	2970	CG	GLU	L	97	-8.192	-17.649	-5.895	1.00	0.19		C
ATOM	2971	HG2	GLU	L	97	-7.945	-17.171	-4.946	1.00	0.19		H
ATOM	2972	HG3	GLU	L	97	-8.924	-17.006	-6.388	1.00	0.19		H
ATOM	2973	CD	GLU	L	97	-8.864	-19.005	-5.630	1.00	0.19		C
ATOM	2974	OE1	GLU	L	97	-8.297	-20.068	-5.971	1.00	0.19		O
ATOM	2975	OE2	GLU	L	97	-9.956	-18.975	-5.014	1.00	0.19		O
ATOM	2976	N	ASP	L	98	-5.026	-18.029	-3.730	1.00	0.22		N
ATOM	2977	H	ASP	L	98	-5.123	-19.041	-3.730	1.00	0.22		H
ATOM	2978	CA	ASP	L	98	-4.493	-17.420	-2.501	1.00	0.22		C
ATOM	2979	HA	ASP	L	98	-4.860	-16.395	-2.432	1.00	0.22		H
ATOM	2980	C	ASP	L	98	-2.957	-17.352	-2.473	1.00	0.22		C
ATOM	2981	CB	ASP	L	98	-5.005	-18.176	-1.270	1.00	0.22		C
ATOM	2982	HB2	ASP	L	98	-4.651	-19.203	-1.319	1.00	0.22		H
ATOM	2983	HB3	ASP	L	98	-4.591	-17.715	-0.373	1.00	0.22		H
ATOM	2984	O	ASP	L	98	-2.387	-16.718	-1.583	1.00	0.22		O
ATOM	2985	CG	ASP	L	98	-6.522	-18.168	-1.145	1.00	0.22		C
ATOM	2986	OD1	ASP	L	98	-7.157	-17.178	-1.572	1.00	0.22		O
ATOM	2987	OD2	ASP	L	98	-7.089	-19.149	-0.618	1.00	0.22		O
ATOM	2988	N	VAL	L	99	-2.277	-17.961	-3.448	1.00	0.32		N
ATOM	2989	H	VAL	L	99	-2.803	-18.502	-4.122	1.00	0.32		H
ATOM	2990	CA	VAL	L	99	-0.827	-17.827	-3.660	1.00	0.32		C
ATOM	2991	HA	VAL	L	99	-0.301	-18.107	-2.746	1.00	0.32		H
ATOM	2992	C	VAL	L	99	-0.499	-16.365	-3.985	1.00	0.32		C
ATOM	2993	CB	VAL	L	99	-0.369	-18.780	-4.781	1.00	0.32		C
ATOM	2994	HB	VAL	L	99	-0.969	-18.583	-5.669	1.00	0.32		H
ATOM	2995	O	VAL	L	99	-0.807	-15.865	-5.074	1.00	0.32		O
ATOM	2996	CG1	VAL	L	99	1.105	-18.615	-5.175	1.00	0.32		C
ATOM	2997	HG11	VAL	L	99	1.348	-19.313	-5.976	1.00	0.32		H
ATOM	2998	HG12	VAL	L	99	1.749	-18.825	-4.323	1.00	0.32		H
ATOM	2999	HG13	VAL	L	99	1.296	-17.605	-5.533	1.00	0.32		H
ATOM	3000	CG2	VAL	L	99	-0.579	-20.241	-4.371	1.00	0.32		C

ATOM	3001	HG21	VAL	L	99	0.047	-20.484	-3.511	1.00	0.32	H
ATOM	3002	HG22	VAL	L	99	-0.321	-20.890	-5.206	1.00	0.32	H
ATOM	3003	HG23	VAL	L	99	-1.622	-20.423	-4.113	1.00	0.32	H
ATOM	3004	N	ALA	L	100	0.064	-15.654	-3.007	1.00	0.25	N
ATOM	3005	H	ALA	L	100	0.274	-16.134	-2.142	1.00	0.25	H
ATOM	3006	CA	ALA	L	100	0.286	-14.207	-3.029	1.00	0.25	C
ATOM	3007	HA	ALA	L	100	0.766	-13.924	-3.967	1.00	0.25	H
ATOM	3008	C	ALA	L	100	1.188	-13.760	-1.863	1.00	0.25	C
ATOM	3009	CB	ALA	L	100	-1.079	-13.508	-2.926	1.00	0.25	C
ATOM	3010	HB1	ALA	L	100	-0.952	-12.427	-2.891	1.00	0.25	H
ATOM	3011	HB2	ALA	L	100	-1.584	-13.833	-2.017	1.00	0.25	H
ATOM	3012	HB3	ALA	L	100	-1.702	-13.760	-3.783	1.00	0.25	H
ATOM	3013	O	ALA	L	100	1.386	-14.503	-0.900	1.00	0.25	O
ATOM	3014	N	THR	L	101	1.695	-12.526	-1.924	1.00	0.22	N
ATOM	3015	H	THR	L	101	1.471	-11.953	-2.731	1.00	0.22	H
ATOM	3016	CA	THR	L	101	2.337	-11.847	-0.788	1.00	0.22	C
ATOM	3017	HA	THR	L	101	2.754	-12.582	-0.113	1.00	0.22	H
ATOM	3018	C	THR	L	101	1.306	-11.046	-0.008	1.00	0.22	C
ATOM	3019	CB	THR	L	101	3.488	-10.935	-1.232	1.00	0.22	C
ATOM	3020	HB	THR	L	101	3.098	-10.124	-1.849	1.00	0.22	H
ATOM	3021	O	THR	L	101	0.637	-10.178	-0.569	1.00	0.22	O
ATOM	3022	CG2	THR	L	101	4.253	-10.349	-0.043	1.00	0.22	C
ATOM	3023	HG21	THR	L	101	4.652	-11.152	0.577	1.00	0.22	H
ATOM	3024	HG22	THR	L	101	5.076	-9.731	-0.403	1.00	0.22	H
ATOM	3025	HG23	THR	L	101	3.597	-9.721	0.559	1.00	0.22	H
ATOM	3026	OG1	THR	L	101	4.432	-11.669	-1.977	1.00	0.22	O
ATOM	3027	HG1	THR	L	101	5.162	-11.071	-2.161	1.00	0.22	H
ATOM	3028	N	TYR	L	102	1.187	-11.313	1.289	1.00	0.17	N
ATOM	3029	H	TYR	L	102	1.740	-12.066	1.685	1.00	0.17	H
ATOM	3030	CA	TYR	L	102	0.266	-10.610	2.175	1.00	0.17	C
ATOM	3031	HA	TYR	L	102	-0.461	-10.088	1.564	1.00	0.17	H
ATOM	3032	C	TYR	L	102	1.004	-9.590	3.030	1.00	0.17	C
ATOM	3033	CB	TYR	L	102	-0.496	-11.608	3.043	1.00	0.17	C
ATOM	3034	HB2	TYR	L	102	0.221	-12.191	3.616	1.00	0.17	H
ATOM	3035	HB3	TYR	L	102	-1.121	-11.061	3.750	1.00	0.17	H
ATOM	3036	O	TYR	L	102	1.975	-9.942	3.697	1.00	0.17	O
ATOM	3037	CG	TYR	L	102	-1.371	-12.532	2.224	1.00	0.17	C
ATOM	3038	CD1	TYR	L	102	-0.823	-13.688	1.632	1.00	0.17	C
ATOM	3039	HD1	TYR	L	102	0.217	-13.941	1.792	1.00	0.17	H
ATOM	3040	CD2	TYR	L	102	-2.715	-12.189	1.993	1.00	0.17	C
ATOM	3041	HD2	TYR	L	102	-3.127	-11.288	2.429	1.00	0.17	H
ATOM	3042	CE1	TYR	L	102	-1.616	-14.496	0.798	1.00	0.17	C
ATOM	3043	HE1	TYR	L	102	-1.188	-15.362	0.315	1.00	0.17	H

ATOM	3044	CE2	TYR	L	102	-3.514	-13.009	1.179	1.00	0.17	C
ATOM	3045	HE2	TYR	L	102	-4.545	-12.763	0.994	1.00	0.17	H
ATOM	3046	OH	TYR	L	102	-3.731	-14.898	-0.258	1.00	0.17	O
ATOM	3047	HH	TYR	L	102	-3.211	-15.634	-0.639	1.00	0.17	H
ATOM	3048	CZ	TYR	L	102	-2.965	-14.156	0.576	1.00	0.17	C
ATOM	3049	N	TYR	L	103	0.528	-8.349	3.039	1.00	0.16	N
ATOM	3050	H	TYR	L	103	-0.323	-8.170	2.518	1.00	0.16	H
ATOM	3051	CA	TYR	L	103	1.104	-7.243	3.805	1.00	0.16	C
ATOM	3052	HA	TYR	L	103	2.028	-7.557	4.287	1.00	0.16	H
ATOM	3053	C	TYR	L	103	0.126	-6.784	4.882	1.00	0.16	C
ATOM	3054	CB	TYR	L	103	1.441	-6.075	2.867	1.00	0.16	C
ATOM	3055	HB2	TYR	L	103	1.662	-5.197	3.478	1.00	0.16	H
ATOM	3056	HB3	TYR	L	103	0.568	-5.829	2.263	1.00	0.16	H
ATOM	3057	O	TYR	L	103	-1.022	-6.481	4.566	1.00	0.16	O
ATOM	3058	CG	TYR	L	103	2.627	-6.314	1.954	1.00	0.16	C
ATOM	3059	CD1	TYR	L	103	3.917	-6.057	2.445	1.00	0.16	C
ATOM	3060	HD1	TYR	L	103	4.042	-5.717	3.462	1.00	0.16	H
ATOM	3061	CD2	TYR	L	103	2.456	-6.744	0.622	1.00	0.16	C
ATOM	3062	HD2	TYR	L	103	1.466	-6.930	0.231	1.00	0.16	H
ATOM	3063	CE1	TYR	L	103	5.044	-6.235	1.624	1.00	0.16	C
ATOM	3064	HE1	TYR	L	103	6.032	-6.041	2.016	1.00	0.16	H
ATOM	3065	CE2	TYR	L	103	3.583	-6.915	-0.209	1.00	0.16	C
ATOM	3066	HE2	TYR	L	103	3.466	-7.229	-1.235	1.00	0.16	H
ATOM	3067	OH	TYR	L	103	5.972	-6.875	-0.487	1.00	0.16	O
ATOM	3068	HH	TYR	L	103	6.770	-6.949	0.044	1.00	0.16	H
ATOM	3069	CZ	TYR	L	103	4.880	-6.671	0.294	1.00	0.16	C
ATOM	3070	N	CYS	L	104	0.564	-6.680	6.135	1.00	0.12	N
ATOM	3071	H	CYS	L	104	1.527	-6.931	6.336	1.00	0.12	H
ATOM	3072	CA	CYS	L	104	-0.161	-5.875	7.116	1.00	0.12	C
ATOM	3073	HA	CYS	L	104	-1.225	-5.974	6.920	1.00	0.12	H
ATOM	3074	C	CYS	L	104	0.213	-4.391	6.981	1.00	0.12	C
ATOM	3075	CB	CYS	L	104	0.075	-6.394	8.534	1.00	0.12	C
ATOM	3076	HB2	CYS	L	104	-0.263	-7.427	8.590	1.00	0.12	H
ATOM	3077	HB3	CYS	L	104	-0.549	-5.810	9.210	1.00	0.12	H
ATOM	3078	O	CYS	L	104	1.265	-4.047	6.443	1.00	0.12	O
ATOM	3079	SG	CYS	L	104	1.781	-6.308	9.120	1.00	0.12	S
ATOM	3080	N	GLN	L	105	-0.633	-3.510	7.505	1.00	0.11	N
ATOM	3081	H	GLN	L	105	-1.533	-3.850	7.830	1.00	0.11	H
ATOM	3082	CA	GLN	L	105	-0.370	-2.075	7.628	1.00	0.11	C
ATOM	3083	HA	GLN	L	105	0.699	-1.907	7.741	1.00	0.11	H
ATOM	3084	C	GLN	L	105	-1.086	-1.539	8.861	1.00	0.11	C
ATOM	3085	CB	GLN	L	105	-0.872	-1.361	6.366	1.00	0.11	C
ATOM	3086	HB2	GLN	L	105	-0.425	-1.824	5.487	1.00	0.11	H

ATOM	3087	HB3	GLN	L	105	-1.946	-1.538	6.333	1.00	0.11	H
ATOM	3088	O	GLN	L	105	-2.246	-1.883	9.084	1.00	0.11	O
ATOM	3089	CG	GLN	L	105	-0.621	0.160	6.306	1.00	0.11	C
ATOM	3090	HG2	GLN	L	105	0.146	0.367	5.559	1.00	0.11	H
ATOM	3091	HG3	GLN	L	105	-0.235	0.521	7.255	1.00	0.11	H
ATOM	3092	CD	GLN	L	105	-1.878	0.953	5.938	1.00	0.11	C
ATOM	3093	NE2	GLN	L	105	-2.156	2.049	6.605	1.00	0.11	N
ATOM	3094	HE21	GLN	L	105	-1.606	2.302	7.418	1.00	0.11	H
ATOM	3095	HE22	GLN	L	105	-2.969	2.588	6.321	1.00	0.11	H
ATOM	3096	OE1	GLN	L	105	-2.642	0.585	5.058	1.00	0.11	O
ATOM	3097	N	GLN	L	106	-0.433	-0.686	9.648	1.00	0.15	N
ATOM	3098	H	GLN	L	106	0.507	-0.402	9.385	1.00	0.15	H
ATOM	3099	CA	GLN	L	106	-1.135	0.091	10.671	1.00	0.15	C
ATOM	3100	HA	GLN	L	106	-2.007	-0.476	10.991	1.00	0.15	H
ATOM	3101	C	GLN	L	106	-1.642	1.419	10.105	1.00	0.15	C
ATOM	3102	CB	GLN	L	106	-0.279	0.273	11.926	1.00	0.15	C
ATOM	3103	HB2	GLN	L	106	-0.892	0.701	12.721	1.00	0.15	H
ATOM	3104	HB3	GLN	L	106	0.015	-0.718	12.260	1.00	0.15	H
ATOM	3105	O	GLN	L	106	-1.014	2.033	9.239	1.00	0.15	O
ATOM	3106	CG	GLN	L	106	0.984	1.127	11.727	1.00	0.15	C
ATOM	3107	HG2	GLN	L	106	1.689	0.843	12.501	1.00	0.15	H
ATOM	3108	HG3	GLN	L	106	1.446	0.894	10.769	1.00	0.15	H
ATOM	3109	CD	GLN	L	106	0.769	2.637	11.831	1.00	0.15	C
ATOM	3110	NE2	GLN	L	106	1.770	3.417	11.496	1.00	0.15	N
ATOM	3111	HE21	GLN	L	106	1.633	4.423	11.584	1.00	0.15	H
ATOM	3112	HE22	GLN	L	106	2.657	3.025	11.206	1.00	0.15	H
ATOM	3113	OE1	GLN	L	106	-0.281	3.134	12.224	1.00	0.15	O
ATOM	3114	N	PHE	L	107	-2.774	1.867	10.637	1.00	0.19	N
ATOM	3115	H	PHE	L	107	-3.256	1.264	11.296	1.00	0.19	H
ATOM	3116	CA	PHE	L	107	-3.362	3.172	10.354	1.00	0.19	C
ATOM	3117	HA	PHE	L	107	-2.604	3.766	9.850	1.00	0.19	H
ATOM	3118	C	PHE	L	107	-3.709	3.966	11.625	1.00	0.19	C
ATOM	3119	CB	PHE	L	107	-4.509	3.017	9.356	1.00	0.19	C
ATOM	3120	HB2	PHE	L	107	-4.102	2.567	8.453	1.00	0.19	H
ATOM	3121	HB3	PHE	L	107	-4.835	4.018	9.101	1.00	0.19	H
ATOM	3122	O	PHE	L	107	-4.535	4.881	11.601	1.00	0.19	O
ATOM	3123	CG	PHE	L	107	-5.725	2.207	9.774	1.00	0.19	C
ATOM	3124	CD1	PHE	L	107	-5.820	0.843	9.436	1.00	0.19	C
ATOM	3125	HD1	PHE	L	107	-4.998	0.355	8.927	1.00	0.19	H
ATOM	3126	CD2	PHE	L	107	-6.817	2.843	10.394	1.00	0.19	C
ATOM	3127	HD2	PHE	L	107	-6.767	3.900	10.618	1.00	0.19	H
ATOM	3128	CE1	PHE	L	107	-6.994	0.123	9.724	1.00	0.19	C
ATOM	3129	HE1	PHE	L	107	-7.073	-0.912	9.430	1.00	0.19	H

ATOM	3130	CE2	PHE	L	107	-7.987	2.122	10.688	1.00	0.19	C
ATOM	3131	HE2	PHE	L	107	-8.831	2.630	11.132	1.00	0.19	H
ATOM	3132	CZ	PHE	L	107	-8.076	0.758	10.359	1.00	0.19	C
ATOM	3133	HZ	PHE	L	107	-8.986	0.212	10.562	1.00	0.19	H
ATOM	3134	N	TRP	L	108	-3.063	3.629	12.746	1.00	0.23	N
ATOM	3135	H	TRP	L	108	-2.293	2.976	12.654	1.00	0.23	H
ATOM	3136	CA	TRP	L	108	-3.217	4.314	14.031	1.00	0.23	C
ATOM	3137	HA	TRP	L	108	-4.276	4.487	14.213	1.00	0.23	H
ATOM	3138	C	TRP	L	108	-2.536	5.684	14.051	1.00	0.23	C
ATOM	3139	CB	TRP	L	108	-2.664	3.418	15.147	1.00	0.23	C
ATOM	3140	HB2	TRP	L	108	-1.639	3.147	14.889	1.00	0.23	H
ATOM	3141	HB3	TRP	L	108	-3.234	2.496	15.185	1.00	0.23	H
ATOM	3142	O	TRP	L	108	-3.135	6.655	14.510	1.00	0.23	O
ATOM	3143	CG	TRP	L	108	-2.659	3.991	16.532	1.00	0.23	C
ATOM	3144	CD1	TRP	L	108	-1.605	3.936	17.375	1.00	0.23	C
ATOM	3145	HD1	TRP	L	108	-0.646	3.484	17.149	1.00	0.23	H
ATOM	3146	CD2	TRP	L	108	-3.748	4.599	17.304	1.00	0.23	C
ATOM	3147	CE2	TRP	L	108	-3.266	4.873	18.621	1.00	0.23	C
ATOM	3148	CE3	TRP	L	108	-5.094	4.943	17.040	1.00	0.23	C
ATOM	3149	HE3	TRP	L	108	-5.483	4.794	16.049	1.00	0.23	H
ATOM	3150	NE1	TRP	L	108	-1.956	4.452	18.602	1.00	0.23	N
ATOM	3151	HE1	TRP	L	108	-1.339	4.404	19.401	1.00	0.23	H
ATOM	3152	CH2	TRP	L	108	-5.414	5.741	19.328	1.00	0.23	C
ATOM	3153	HH2	TRP	L	108	-6.046	6.174	20.090	1.00	0.23	H
ATOM	3154	CZ2	TRP	L	108	-4.078	5.424	19.623	1.00	0.23	C
ATOM	3155	HZ2	TRP	L	108	-3.677	5.597	20.611	1.00	0.23	H
ATOM	3156	CZ3	TRP	L	108	-5.917	5.507	18.036	1.00	0.23	C
ATOM	3157	HZ3	TRP	L	108	-6.935	5.779	17.802	1.00	0.23	H
ATOM	3158	N	SER	L	109	-1.315	5.789	13.519	1.00	0.20	N
ATOM	3159	H	SER	L	109	-0.856	4.959	13.153	1.00	0.20	H
ATOM	3160	CA	SER	L	109	-0.566	7.049	13.490	1.00	0.20	C
ATOM	3161	HA	SER	L	109	-1.283	7.868	13.422	1.00	0.20	H
ATOM	3162	C	SER	L	109	0.352	7.152	12.273	1.00	0.20	C
ATOM	3163	CB	SER	L	109	0.223	7.245	14.792	1.00	0.20	C
ATOM	3164	HB2	SER	L	109	-0.449	7.115	15.642	1.00	0.20	H
ATOM	3165	HB3	SER	L	109	0.625	8.259	14.817	1.00	0.20	H
ATOM	3166	O	SER	L	109	0.871	6.159	11.763	1.00	0.20	O
ATOM	3167	OG	SER	L	109	1.293	6.328	14.894	1.00	0.20	O
ATOM	3168	HG	SER	L	109	1.678	6.380	15.775	1.00	0.20	H
ATOM	3169	N	ALA	L	114	0.538	8.379	11.787	1.00	0.33	N
ATOM	3170	H	ALA	L	114	0.128	9.159	12.270	1.00	0.33	H
ATOM	3171	CA	ALA	L	114	1.487	8.661	10.719	1.00	0.33	C
ATOM	3172	HA	ALA	L	114	1.354	7.894	9.961	1.00	0.33	H

ATOM	3173	C	ALA L 114	2.944	8.635	11.247	1.00	0.33	C
ATOM	3174	CB	ALA L 114	1.129	10.009	10.082	1.00	0.33	C
ATOM	3175	HB1	ALA L 114	0.106	9.978	9.705	1.00	0.33	H
ATOM	3176	HB2	ALA L 114	1.224	10.805	10.821	1.00	0.33	H
ATOM	3177	HB3	ALA L 114	1.806	10.214	9.251	1.00	0.33	H
ATOM	3178	O	ALA L 114	3.176	9.085	12.371	1.00	0.33	O
ATOM	3179	N	PRO L 115	3.931	8.199	10.439	1.00	0.16	N
ATOM	3180	CA	PRO L 115	3.774	7.651	9.092	1.00	0.16	C
ATOM	3181	HA	PRO L 115	3.170	8.324	8.487	1.00	0.16	H
ATOM	3182	C	PRO L 115	3.120	6.264	9.094	1.00	0.16	C
ATOM	3183	CB	PRO L 115	5.187	7.604	8.513	1.00	0.16	C
ATOM	3184	HB2	PRO L 115	5.419	8.567	8.060	1.00	0.16	H
ATOM	3185	HB3	PRO L 115	5.313	6.799	7.787	1.00	0.16	H
ATOM	3186	O	PRO L 115	3.431	5.417	9.928	1.00	0.16	O
ATOM	3187	CG	PRO L 115	6.070	7.404	9.743	1.00	0.16	C
ATOM	3188	HG2	PRO L 115	6.098	6.347	10.013	1.00	0.16	H
ATOM	3189	HG3	PRO L 115	7.076	7.788	9.581	1.00	0.16	H
ATOM	3190	CD	PRO L 115	5.336	8.196	10.824	1.00	0.16	C
ATOM	3191	HD2	PRO L 115	5.707	9.221	10.847	1.00	0.16	H
ATOM	3192	HD3	PRO L 115	5.478	7.728	11.799	1.00	0.16	H
ATOM	3193	N	TYR L 116	2.202	6.041	8.151	1.00	0.22	N
ATOM	3194	H	TYR L 116	2.020	6.755	7.463	1.00	0.22	H
ATOM	3195	CA	TYR L 116	1.486	4.772	8.020	1.00	0.22	C
ATOM	3196	HA	TYR L 116	1.203	4.423	9.010	1.00	0.22	H
ATOM	3197	C	TYR L 116	2.392	3.684	7.437	1.00	0.22	C
ATOM	3198	CB	TYR L 116	0.207	4.970	7.193	1.00	0.22	C
ATOM	3199	HB2	TYR L 116	0.475	5.447	6.249	1.00	0.22	H
ATOM	3200	HB3	TYR L 116	-0.191	3.984	6.955	1.00	0.22	H
ATOM	3201	O	TYR L 116	2.684	3.649	6.244	1.00	0.22	O
ATOM	3202	CG	TYR L 116	-0.922	5.761	7.852	1.00	0.22	C
ATOM	3203	CD1	TYR L 116	-1.108	5.754	9.252	1.00	0.22	C
ATOM	3204	HD1	TYR L 116	-0.434	5.214	9.900	1.00	0.22	H
ATOM	3205	CD2	TYR L 116	-1.862	6.434	7.043	1.00	0.22	C
ATOM	3206	HD2	TYR L 116	-1.741	6.433	5.972	1.00	0.22	H
ATOM	3207	CE1	TYR L 116	-2.220	6.387	9.833	1.00	0.22	C
ATOM	3208	HE1	TYR L 116	-2.363	6.359	10.902	1.00	0.22	H
ATOM	3209	CE2	TYR L 116	-2.991	7.052	7.620	1.00	0.22	C
ATOM	3210	HE2	TYR L 116	-3.741	7.524	7.008	1.00	0.22	H
ATOM	3211	OH	TYR L 116	-4.317	7.504	9.570	1.00	0.22	O
ATOM	3212	HH	TYR L 116	-4.551	7.017	10.370	1.00	0.22	H
ATOM	3213	CZ	TYR L 116	-3.184	7.005	9.016	1.00	0.22	C
ATOM	3214	N	THR L 117	2.843	2.795	8.311	1.00	0.12	N
ATOM	3215	H	THR L 117	2.575	2.905	9.278	1.00	0.12	H

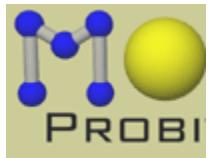
ATOM	3216	CA	THR L 117	3.834	1.757	8.033	1.00	0.12	C
ATOM	3217	HA	THR L 117	4.431	2.069	7.175	1.00	0.12	H
ATOM	3218	C	THR L 117	3.196	0.415	7.683	1.00	0.12	C
ATOM	3219	CB	THR L 117	4.783	1.611	9.230	1.00	0.12	C
ATOM	3220	HB	THR L 117	5.302	0.654	9.168	1.00	0.12	H
ATOM	3221	O	THR L 117	2.271	-0.063	8.347	1.00	0.12	O
ATOM	3222	CG2	THR L 117	5.825	2.730	9.248	1.00	0.12	C
ATOM	3223	HG21	THR L 117	5.337	3.700	9.341	1.00	0.12	H
ATOM	3224	HG22	THR L 117	6.506	2.590	10.086	1.00	0.12	H
ATOM	3225	HG23	THR L 117	6.402	2.709	8.324	1.00	0.12	H
ATOM	3226	OG1	THR L 117	4.069	1.681	10.449	1.00	0.12	O
ATOM	3227	HG1	THR L 117	4.737	1.535	11.150	1.00	0.12	H
ATOM	3228	N	PHE L 118	3.727	-0.206	6.630	1.00	0.15	N
ATOM	3229	H	PHE L 118	4.481	0.246	6.136	1.00	0.15	H
ATOM	3230	CA	PHE L 118	3.449	-1.587	6.248	1.00	0.15	C
ATOM	3231	HA	PHE L 118	2.428	-1.840	6.521	1.00	0.15	H
ATOM	3232	C	PHE L 118	4.392	-2.552	6.973	1.00	0.15	C
ATOM	3233	CB	PHE L 118	3.582	-1.740	4.728	1.00	0.15	C
ATOM	3234	HB2	PHE L 118	3.461	-2.793	4.468	1.00	0.15	H
ATOM	3235	HB3	PHE L 118	4.591	-1.455	4.430	1.00	0.15	H
ATOM	3236	O	PHE L 118	5.435	-2.150	7.497	1.00	0.15	O
ATOM	3237	CG	PHE L 118	2.580	-0.934	3.920	1.00	0.15	C
ATOM	3238	CD1	PHE L 118	2.827	0.422	3.626	1.00	0.15	C
ATOM	3239	HD1	PHE L 118	3.725	0.900	3.988	1.00	0.15	H
ATOM	3240	CD2	PHE L 118	1.416	-1.553	3.425	1.00	0.15	C
ATOM	3241	HD2	PHE L 118	1.223	-2.594	3.642	1.00	0.15	H
ATOM	3242	CE1	PHE L 118	1.921	1.152	2.838	1.00	0.15	C
ATOM	3243	HE1	PHE L 118	2.123	2.188	2.606	1.00	0.15	H
ATOM	3244	CE2	PHE L 118	0.508	-0.823	2.638	1.00	0.15	C
ATOM	3245	HE2	PHE L 118	-0.382	-1.302	2.252	1.00	0.15	H
ATOM	3246	CZ	PHE L 118	0.766	0.526	2.340	1.00	0.15	C
ATOM	3247	HZ	PHE L 118	0.080	1.083	1.720	1.00	0.15	H
ATOM	3248	N	GLY L 119	4.029	-3.832	6.990	1.00	0.17	N
ATOM	3249	H	GLY L 119	3.137	-4.080	6.575	1.00	0.17	H
ATOM	3250	CA	GLY L 119	4.963	-4.904	7.305	1.00	0.17	C
ATOM	3251	HA2	GLY L 119	4.423	-5.777	7.667	1.00	0.17	H
ATOM	3252	HA3	GLY L 119	5.639	-4.553	8.079	1.00	0.17	H
ATOM	3253	C	GLY L 119	5.837	-5.300	6.118	1.00	0.17	C
ATOM	3254	O	GLY L 119	5.655	-4.825	5.000	1.00	0.17	O
ATOM	3255	N	GLY L 120	6.796	-6.196	6.361	1.00	0.22	N
ATOM	3256	H	GLY L 120	6.923	-6.517	7.306	1.00	0.22	H
ATOM	3257	CA	GLY L 120	7.704	-6.694	5.317	1.00	0.22	C
ATOM	3258	HA2	GLY L 120	8.151	-5.847	4.794	1.00	0.22	H

ATOM	3259	HA3	GLY	L	120	8.504	-7.266	5.786	1.00	0.22	H
ATOM	3260	C	GLY	L	120	7.037	-7.596	4.270	1.00	0.22	C
ATOM	3261	O	GLY	L	120	7.624	-7.852	3.222	1.00	0.22	O
ATOM	3262	N	GLY	L	121	5.806	-8.042	4.527	1.00	0.22	N
ATOM	3263	H	GLY	L	121	5.348	-7.729	5.368	1.00	0.22	H
ATOM	3264	CA	GLY	L	121	5.097	-9.003	3.694	1.00	0.22	C
ATOM	3265	HA2	GLY	L	121	4.036	-8.812	3.802	1.00	0.22	H
ATOM	3266	HA3	GLY	L	121	5.354	-8.851	2.646	1.00	0.22	H
ATOM	3267	C	GLY	L	121	5.406	-10.458	4.055	1.00	0.22	C
ATOM	3268	O	GLY	L	121	6.448	-10.775	4.624	1.00	0.22	O
ATOM	3269	N	THR	L	122	4.480	-11.348	3.704	1.00	0.25	N
ATOM	3270	H	THR	L	122	3.604	-10.990	3.341	1.00	0.25	H
ATOM	3271	CA	THR	L	122	4.610	-12.801	3.860	1.00	0.25	C
ATOM	3272	HA	THR	L	122	5.661	-13.066	3.970	1.00	0.25	H
ATOM	3273	C	THR	L	122	4.052	-13.472	2.613	1.00	0.25	C
ATOM	3274	CB	THR	L	122	3.855	-13.305	5.099	1.00	0.25	C
ATOM	3275	HB	THR	L	122	2.796	-13.087	4.971	1.00	0.25	H
ATOM	3276	O	THR	L	122	2.849	-13.393	2.356	1.00	0.25	O
ATOM	3277	CG2	THR	L	122	4.024	-14.811	5.313	1.00	0.25	C
ATOM	3278	HG21	THR	L	122	3.579	-15.099	6.265	1.00	0.25	H
ATOM	3279	HG22	THR	L	122	5.081	-15.077	5.327	1.00	0.25	H
ATOM	3280	HG23	THR	L	122	3.524	-15.365	4.519	1.00	0.25	H
ATOM	3281	OG1	THR	L	122	4.295	-12.643	6.264	1.00	0.25	O
ATOM	3282	HG1	THR	L	122	5.243	-12.873	6.365	1.00	0.25	H
ATOM	3283	N	LYS	L	123	4.911	-14.100	1.808	1.00	0.35	N
ATOM	3284	H	LYS	L	123	5.899	-14.090	2.054	1.00	0.35	H
ATOM	3285	CA	LYS	L	123	4.504	-14.806	0.585	1.00	0.35	C
ATOM	3286	HA	LYS	L	123	3.652	-14.298	0.152	1.00	0.35	H
ATOM	3287	C	LYS	L	123	4.043	-16.238	0.865	1.00	0.35	C
ATOM	3288	CB	LYS	L	123	5.638	-14.747	-0.448	1.00	0.35	C
ATOM	3289	HB2	LYS	L	123	5.969	-13.714	-0.566	1.00	0.35	H
ATOM	3290	HB3	LYS	L	123	6.481	-15.351	-0.104	1.00	0.35	H
ATOM	3291	O	LYS	L	123	4.791	-17.018	1.444	1.00	0.35	O
ATOM	3292	CG	LYS	L	123	5.139	-15.271	-1.804	1.00	0.35	C
ATOM	3293	HG2	LYS	L	123	4.302	-14.660	-2.147	1.00	0.35	H
ATOM	3294	HG3	LYS	L	123	4.795	-16.300	-1.684	1.00	0.35	H
ATOM	3295	CD	LYS	L	123	6.243	-15.261	-2.864	1.00	0.35	C
ATOM	3296	HD2	LYS	L	123	6.529	-14.236	-3.106	1.00	0.35	H
ATOM	3297	HD3	LYS	L	123	7.110	-15.785	-2.457	1.00	0.35	H
ATOM	3298	CE	LYS	L	123	5.721	-15.987	-4.112	1.00	0.35	C
ATOM	3299	HE2	LYS	L	123	5.205	-15.284	-4.769	1.00	0.35	H
ATOM	3300	HE3	LYS	L	123	4.998	-16.742	-3.780	1.00	0.35	H
ATOM	3301	NZ	LYS	L	123	6.805	-16.704	-4.817	1.00	0.35	N

ATOM	3302	HZ1	LYS	L	123	7.509	-16.110	-5.216	1.00	0.35		H
ATOM	3303	HZ2	LYS	L	123	7.250	-17.315	-4.122	1.00	0.35		H
ATOM	3304	HZ3	LYS	L	123	6.426	-17.388	-5.457	1.00	0.35		H
ATOM	3305	N	LEU	L	124	2.843	-16.604	0.418	1.00	0.50		N
ATOM	3306	H	LEU	L	124	2.277	-15.915	-0.063	1.00	0.50		H
ATOM	3307	CA	LEU	L	124	2.395	-17.998	0.407	1.00	0.50		C
ATOM	3308	HA	LEU	L	124	2.887	-18.537	1.218	1.00	0.50		H
ATOM	3309	C	LEU	L	124	2.816	-18.683	-0.891	1.00	0.50		C
ATOM	3310	CB	LEU	L	124	0.883	-18.098	0.645	1.00	0.50		C
ATOM	3311	HB2	LEU	L	124	0.617	-19.156	0.656	1.00	0.50		H
ATOM	3312	HB3	LEU	L	124	0.353	-17.624	-0.183	1.00	0.50		H
ATOM	3313	O	LEU	L	124	2.425	-18.256	-1.977	1.00	0.50		O
ATOM	3314	CG	LEU	L	124	0.430	-17.450	1.965	1.00	0.50		C
ATOM	3315	HG	LEU	L	124	0.487	-16.366	1.873	1.00	0.50		H
ATOM	3316	CD1	LEU	L	124	-1.019	-17.842	2.226	1.00	0.50		C
ATOM	3317	HD11	LEU	L	124	-1.637	-17.530	1.384	1.00	0.50		H
ATOM	3318	HD12	LEU	L	124	-1.097	-18.922	2.338	1.00	0.50		H
ATOM	3319	HD13	LEU	L	124	-1.376	-17.353	3.130	1.00	0.50		H
ATOM	3320	CD2	LEU	L	124	1.272	-17.877	3.171	1.00	0.50		C
ATOM	3321	HD21	LEU	L	124	1.355	-18.964	3.198	1.00	0.50		H
ATOM	3322	HD22	LEU	L	124	2.268	-17.443	3.097	1.00	0.50		H
ATOM	3323	HD23	LEU	L	124	0.823	-17.517	4.093	1.00	0.50		H
ATOM	3324	N	GLU	L	125	3.611	-19.734	-0.743	1.00	0.40		N
ATOM	3325	H	GLU	L	125	3.841	-20.015	0.206	1.00	0.40		H
ATOM	3326	CA	GLU	L	125	4.019	-20.669	-1.789	1.00	0.40		C
ATOM	3327	HA	GLU	L	125	3.833	-20.233	-2.772	1.00	0.40		H
ATOM	3328	C	GLU	L	125	3.216	-21.969	-1.649	1.00	0.40		C
ATOM	3329	CB	GLU	L	125	5.517	-21.011	-1.661	1.00	0.40		C
ATOM	3330	HB2	GLU	L	125	5.643	-21.644	-0.785	1.00	0.40		H
ATOM	3331	HB3	GLU	L	125	5.819	-21.604	-2.525	1.00	0.40		H
ATOM	3332	O	GLU	L	125	2.840	-22.344	-0.540	1.00	0.40		O
ATOM	3333	CG	GLU	L	125	6.501	-19.844	-1.493	1.00	0.40		C
ATOM	3334	HG2	GLU	L	125	7.462	-20.268	-1.193	1.00	0.40		H
ATOM	3335	HG3	GLU	L	125	6.175	-19.191	-0.680	1.00	0.40		H
ATOM	3336	CD	GLU	L	125	6.722	-19.015	-2.760	1.00	0.40		C
ATOM	3337	OE1	GLU	L	125	7.702	-18.236	-2.796	1.00	0.40		O
ATOM	3338	OE2	GLU	L	125	5.919	-19.063	-3.722	1.00	0.40		O
ATOM	3339	N	ILE	L	126	3.011	-22.704	-2.744	1.00	0.40		N
ATOM	3340	H	ILE	L	126	3.412	-22.394	-3.614	1.00	0.40		H
ATOM	3341	CA	ILE	L	126	2.483	-24.076	-2.669	1.00	0.40		C
ATOM	3342	HA	ILE	L	126	1.634	-24.060	-2.000	1.00	0.40		H
ATOM	3343	C	ILE	L	126	3.534	-25.026	-2.053	1.00	0.40		C
ATOM	3344	CB	ILE	L	126	1.958	-24.545	-4.048	1.00	0.40		C

ATOM 3345 HB ILE L 126 2.776 -24.448 -4.765 1.00 0.40 H
 ATOM 3346 O ILE L 126 4.738 -24.808 -2.216 1.00 0.40 O
 ATOM 3347 CG1 ILE L 126 0.796 -23.663 -4.561 1.00 0.40 C
 ATOM 3348 HG12 ILE L 126 1.157 -22.643 -4.688 1.00 0.40 H
 ATOM 3349 HG13 ILE L 126 0.499 -24.019 -5.549 1.00 0.40 H
 ATOM 3350 CG2 ILE L 126 1.522 -26.022 -4.069 1.00 0.40 C
 ATOM 3351 HG21 ILE L 126 0.826 -26.233 -3.256 1.00 0.40 H
 ATOM 3352 HG22 ILE L 126 2.389 -26.674 -3.956 1.00 0.40 H
 ATOM 3353 HG23 ILE L 126 1.048 -26.266 -5.020 1.00 0.40 H
 ATOM 3354 CD1 ILE L 126 -0.457 -23.628 -3.670 1.00 0.40 C
 ATOM 3355 HD11 ILE L 126 -0.239 -23.135 -2.723 1.00 0.40 H
 ATOM 3356 HD12 ILE L 126 -1.243 -23.069 -4.178 1.00 0.40 H
 ATOM 3357 HD13 ILE L 126 -0.821 -24.636 -3.477 1.00 0.40 H
 ATOM 3358 N LYS L 127 3.079 -26.081 -1.368 1.00 0.41 N
 ATOM 3359 H LYS L 127 2.074 -26.182 -1.293 1.00 0.41 H
 ATOM 3360 CA LYS L 127 3.855 -27.290 -1.032 1.00 0.41 C
 ATOM 3361 HA LYS L 127 4.780 -27.276 -1.608 1.00 0.41 H
 ATOM 3362 C LYS L 127 3.121 -28.545 -1.504 1.00 0.41 C
 ATOM 3363 CB LYS L 127 4.230 -27.322 0.466 1.00 0.41 C
 ATOM 3364 HB2 LYS L 127 4.242 -26.303 0.842 1.00 0.41 H
 ATOM 3365 HB3 LYS L 127 5.247 -27.707 0.547 1.00 0.41 H
 ATOM 3366 O LYS L 127 1.881 -28.447 -1.660 1.00 0.41 O
 ATOM 3367 CG LYS L 127 3.336 -28.188 1.371 1.00 0.41 C
 ATOM 3368 HG2 LYS L 127 3.524 -29.242 1.163 1.00 0.41 H
 ATOM 3369 HG3 LYS L 127 2.297 -27.979 1.155 1.00 0.41 H
 ATOM 3370 CD LYS L 127 3.612 -27.912 2.857 1.00 0.41 C
 ATOM 3371 HD2 LYS L 127 3.378 -26.875 3.082 1.00 0.41 H
 ATOM 3372 HD3 LYS L 127 4.676 -28.060 3.044 1.00 0.41 H
 ATOM 3373 CE LYS L 127 2.818 -28.825 3.803 1.00 0.41 C
 ATOM 3374 HE2 LYS L 127 3.023 -29.863 3.525 1.00 0.41 H
 ATOM 3375 HE3 LYS L 127 3.187 -28.666 4.819 1.00 0.41 H
 ATOM 3376 NZ LYS L 127 1.355 -28.579 3.764 1.00 0.41 N
 ATOM 3377 HZ1 LYS L 127 1.070 -27.627 4.008 1.00 0.41 H
 ATOM 3378 HZ2 LYS L 127 0.830 -29.187 4.372 1.00 0.41 H
 ATOM 3379 HZ3 LYS L 127 0.964 -28.745 2.838 1.00 0.41 H
 ATOM 3380 OXT LYS L 127 3.802 -29.579 -1.642 1.00 0.41 O
 TER 3381 LYS L 127
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 CONECT 3079 2102
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REMARK ANTIBODY STRUCTURE MODELLED USING ABODYBUILDER2

REMARK STRUCTURE REFINED USING OPENMM 8.0, 2025-01-23

ATOM	1	N	GLU	H	1	-18.169	2.111	-11.086	1.00	0.29	N
ATOM	5	CA	GLU	H	1	-16.966	1.417	-10.564	1.00	0.29	C
ATOM	7	C	GLU	H	1	-15.889	2.449	-10.307	1.00	0.29	C
ATOM	8	CB	GLU	H	1	-16.452	0.323	-11.526	1.00	0.29	C
ATOM	11	O	GLU	H	1	-15.790	3.392	-11.083	1.00	0.29	O
ATOM	12	CG	GLU	H	1	-17.285	-0.975	-11.517	1.00	0.29	C
ATOM	15	CD	GLU	H	1	-18.757	-0.657	-11.285	1.00	0.29	C
ATOM	16	OE1	GLU	H	1	-19.087	-0.492	-10.094	1.00	0.29	O
ATOM	17	OE2	GLU	H	1	-19.380	-0.089	-12.205	1.00	0.29	O
ATOM	18	N	VAL	H	2	-15.141	2.316	-9.212	1.00	0.31	N
ATOM	20	CA	VAL	H	2	-14.022	3.209	-8.875	1.00	0.31	C
ATOM	22	C	VAL	H	2	-12.736	2.677	-9.498	1.00	0.31	C
ATOM	23	CB	VAL	H	2	-13.878	3.351	-7.348	1.00	0.31	C
ATOM	25	O	VAL	H	2	-12.399	1.511	-9.306	1.00	0.31	O
ATOM	26	CG1	VAL	H	2	-12.609	4.110	-6.933	1.00	0.31	C
ATOM	30	CG2	VAL	H	2	-15.097	4.078	-6.766	1.00	0.31	C
ATOM	34	N	GLN	H	3	-11.992	3.540	-10.189	1.00	0.16	N
ATOM	36	CA	GLN	H	3	-10.679	3.204	-10.738	1.00	0.16	C
ATOM	38	C	GLN	H	3	-9.734	4.400	-10.666	1.00	0.16	C
ATOM	39	CB	GLN	H	3	-10.812	2.657	-12.174	1.00	0.16	C
ATOM	42	O	GLN	H	3	-10.059	5.497	-11.126	1.00	0.16	O
ATOM	43	CG	GLN	H	3	-9.451	2.485	-12.889	1.00	0.16	C
ATOM	46	CD	GLN	H	3	-9.541	1.816	-14.260	1.00	0.16	C
ATOM	47	NE2	GLN	H	3	-8.461	1.766	-15.012	1.00	0.16	N
ATOM	50	OE1	GLN	H	3	-10.569	1.326	-14.692	1.00	0.16	O
ATOM	51	N	LEU	H	4	-8.533	4.160	-10.143	1.00	0.25	N
ATOM	53	CA	LEU	H	4	-7.390	5.054	-10.284	1.00	0.25	C

ATOM	55	C	LEU	H	4	-6.555	4.591	-11.486	1.00	0.25	C
ATOM	56	CB	LEU	H	4	-6.575	5.050	-8.978	1.00	0.25	C
ATOM	59	O	LEU	H	4	-6.201	3.417	-11.570	1.00	0.25	O
ATOM	60	CG	LEU	H	4	-7.340	5.441	-7.698	1.00	0.25	C
ATOM	62	CD1	LEU	H	4	-6.381	5.517	-6.510	1.00	0.25	C
ATOM	66	CD2	LEU	H	4	-8.041	6.793	-7.826	1.00	0.25	C
ATOM	70	N	GLN	H	5	-6.255	5.497	-12.415	1.00	0.24	N
ATOM	72	CA	GLN	H	5	-5.519	5.200	-13.643	1.00	0.24	C
ATOM	74	C	GLN	H	5	-4.264	6.064	-13.723	1.00	0.24	C
ATOM	75	CB	GLN	H	5	-6.446	5.392	-14.859	1.00	0.24	C
ATOM	78	O	GLN	H	5	-4.335	7.225	-14.108	1.00	0.24	O
ATOM	79	CG	GLN	H	5	-5.729	5.130	-16.195	1.00	0.24	C
ATOM	82	CD	GLN	H	5	-5.004	3.790	-16.194	1.00	0.24	C
ATOM	83	NE2	GLN	H	5	-3.693	3.774	-16.303	1.00	0.24	N
ATOM	86	OE1	GLN	H	5	-5.604	2.739	-16.038	1.00	0.24	O
ATOM	87	N	GLN	H	6	-3.111	5.507	-13.361	1.00	0.18	N
ATOM	89	CA	GLN	H	6	-1.852	6.250	-13.311	1.00	0.18	C
ATOM	91	C	GLN	H	6	-1.201	6.442	-14.683	1.00	0.18	C
ATOM	92	CB	GLN	H	6	-0.853	5.583	-12.358	1.00	0.18	C
ATOM	95	O	GLN	H	6	-1.485	5.701	-15.632	1.00	0.18	O
ATOM	96	CG	GLN	H	6	-1.411	5.383	-10.946	1.00	0.18	C
ATOM	99	CD	GLN	H	6	-0.392	4.817	-9.964	1.00	0.18	C
ATOM	100	NE2	GLN	H	6	0.887	5.069	-10.119	1.00	0.18	N
ATOM	103	OE1	GLN	H	6	-0.740	4.108	-9.034	1.00	0.18	O
ATOM	104	N	SER	H	7	-0.270	7.397	-14.745	1.00	0.17	N
ATOM	106	CA	SER	H	7	0.653	7.600	-15.864	1.00	0.17	C
ATOM	108	C	SER	H	7	1.519	6.366	-16.160	1.00	0.17	C
ATOM	109	CB	SER	H	7	1.550	8.814	-15.576	1.00	0.17	C
ATOM	112	O	SER	H	7	1.781	5.537	-15.283	1.00	0.17	O
ATOM	113	OG	SER	H	7	2.261	8.679	-14.355	1.00	0.17	O
ATOM	115	N	GLY	H	8	1.989	6.277	-17.409	1.00	0.20	N
ATOM	117	CA	GLY	H	8	2.905	5.229	-17.869	1.00	0.20	C
ATOM	120	C	GLY	H	8	4.266	5.245	-17.165	1.00	0.20	C
ATOM	121	O	GLY	H	8	4.587	6.184	-16.439	1.00	0.20	O
ATOM	122	N	ALA	H	9	5.038	4.174	-17.368	1.00	0.19	N
ATOM	124	CA	ALA	H	9	6.365	4.006	-16.782	1.00	0.19	C
ATOM	126	C	ALA	H	9	7.352	5.095	-17.235	1.00	0.19	C
ATOM	127	CB	ALA	H	9	6.888	2.606	-17.124	1.00	0.19	C
ATOM	131	O	ALA	H	9	7.289	5.571	-18.367	1.00	0.19	O
ATOM	132	N	GLU	H	11	8.282	5.431	-16.346	1.00	0.20	N
ATOM	134	CA	GLU	H	11	9.255	6.510	-16.504	1.00	0.20	C
ATOM	136	C	GLU	H	11	10.700	5.999	-16.461	1.00	0.20	C
ATOM	137	CB	GLU	H	11	9.009	7.580	-15.424	1.00	0.20	C

ATOM	140	O	GLU H	11	11.037	5.069	-15.717	1.00	0.20	O
ATOM	141	CG	GLU H	11	8.170	8.753	-15.946	1.00	0.20	C
ATOM	144	CD	GLU H	11	9.008	9.721	-16.800	1.00	0.20	C
ATOM	145	OE1	GLU H	11	10.011	9.263	-17.400	1.00	0.20	O
ATOM	146	OE2	GLU H	11	8.656	10.923	-16.810	1.00	0.20	O
ATOM	147	N	LEU H	12	11.569	6.646	-17.239	1.00	0.23	N
ATOM	149	CA	LEU H	12	12.990	6.313	-17.371	1.00	0.23	C
ATOM	151	C	LEU H	12	13.817	7.600	-17.400	1.00	0.23	C
ATOM	152	CB	LEU H	12	13.209	5.421	-18.609	1.00	0.23	C
ATOM	155	O	LEU H	12	13.986	8.237	-18.439	1.00	0.23	O
ATOM	156	CG	LEU H	12	14.686	5.111	-18.932	1.00	0.23	C
ATOM	158	CD1	LEU H	12	15.411	4.384	-17.797	1.00	0.23	C
ATOM	162	CD2	LEU H	12	14.766	4.228	-20.178	1.00	0.23	C
ATOM	166	N	VAL H	13	14.354	7.971	-16.241	1.00	0.28	N
ATOM	168	CA	VAL H	13	14.910	9.307	-16.000	1.00	0.28	C
ATOM	170	C	VAL H	13	16.366	9.256	-15.553	1.00	0.28	C
ATOM	171	CB	VAL H	13	14.039	10.109	-15.020	1.00	0.28	C
ATOM	173	O	VAL H	13	16.843	8.275	-14.984	1.00	0.28	O
ATOM	174	CG1	VAL H	13	12.603	10.266	-15.531	1.00	0.28	C
ATOM	178	CG2	VAL H	13	14.008	9.487	-13.627	1.00	0.28	C
ATOM	182	N	LYS H	14	17.096	10.336	-15.831	1.00	0.29	N
ATOM	184	CA	LYS H	14	18.508	10.468	-15.458	1.00	0.29	C
ATOM	186	C	LYS H	14	18.659	10.762	-13.962	1.00	0.29	C
ATOM	187	CB	LYS H	14	19.197	11.533	-16.335	1.00	0.29	C
ATOM	190	O	LYS H	14	17.827	11.442	-13.362	1.00	0.29	O
ATOM	191	CG	LYS H	14	19.114	11.273	-17.855	1.00	0.29	C
ATOM	194	CD	LYS H	14	19.842	9.995	-18.317	1.00	0.29	C
ATOM	197	CE	LYS H	14	18.919	9.083	-19.144	1.00	0.29	C
ATOM	200	NZ	LYS H	14	19.460	7.705	-19.244	1.00	0.29	N
ATOM	204	N	ALA H	15	19.750	10.287	-13.363	1.00	0.32	N
ATOM	206	CA	ALA H	15	20.119	10.677	-12.003	1.00	0.32	C
ATOM	208	C	ALA H	15	20.313	12.205	-11.904	1.00	0.32	C
ATOM	209	CB	ALA H	15	21.370	9.900	-11.582	1.00	0.32	C
ATOM	213	O	ALA H	15	20.733	12.853	-12.862	1.00	0.32	O
ATOM	214	N	GLY H	16	19.958	12.790	-10.761	1.00	0.26	N
ATOM	216	CA	GLY H	16	19.927	14.237	-10.532	1.00	0.26	C
ATOM	219	C	GLY H	16	18.720	14.966	-11.140	1.00	0.26	C
ATOM	220	O	GLY H	16	18.433	16.087	-10.725	1.00	0.26	O
ATOM	221	N	ALA H	17	17.983	14.351	-12.074	1.00	0.30	N
ATOM	223	CA	ALA H	17	16.775	14.937	-12.655	1.00	0.30	C
ATOM	225	C	ALA H	17	15.590	14.946	-11.663	1.00	0.30	C
ATOM	226	CB	ALA H	17	16.445	14.198	-13.962	1.00	0.30	C
ATOM	230	O	ALA H	17	15.720	14.613	-10.482	1.00	0.30	O

ATOM	231	N	SER	H	18	14.417	15.347	-12.155	1.00	0.23	N
ATOM	233	CA	SER	H	18	13.142	15.318	-11.430	1.00	0.23	C
ATOM	235	C	SER	H	18	12.044	14.755	-12.331	1.00	0.23	C
ATOM	236	CB	SER	H	18	12.752	16.722	-10.954	1.00	0.23	C
ATOM	239	O	SER	H	18	12.118	14.907	-13.548	1.00	0.23	O
ATOM	240	OG	SER	H	18	13.755	17.265	-10.113	1.00	0.23	O
ATOM	242	N	VAL	H	19	11.020	14.148	-11.735	1.00	0.18	N
ATOM	244	CA	VAL	H	19	9.894	13.511	-12.437	1.00	0.18	C
ATOM	246	C	VAL	H	19	8.570	13.913	-11.780	1.00	0.18	C
ATOM	247	CB	VAL	H	19	10.106	11.983	-12.484	1.00	0.18	C
ATOM	249	O	VAL	H	19	8.554	14.299	-10.606	1.00	0.18	O
ATOM	250	CG1	VAL	H	19	9.867	11.310	-11.127	1.00	0.18	C
ATOM	254	CG2	VAL	H	19	9.214	11.306	-13.520	1.00	0.18	C
ATOM	258	N	LYS	H	20	7.450	13.832	-12.511	1.00	0.25	N
ATOM	260	CA	LYS	H	20	6.112	14.076	-11.951	1.00	0.25	C
ATOM	262	C	LYS	H	20	5.076	13.079	-12.467	1.00	0.25	C
ATOM	263	CB	LYS	H	20	5.701	15.544	-12.150	1.00	0.25	C
ATOM	266	O	LYS	H	20	4.503	13.255	-13.537	1.00	0.25	O
ATOM	267	CG	LYS	H	20	4.471	15.862	-11.281	1.00	0.25	C
ATOM	270	CD	LYS	H	20	4.280	17.370	-11.076	1.00	0.25	C
ATOM	273	CE	LYS	H	20	3.253	17.595	-9.959	1.00	0.25	C
ATOM	276	NZ	LYS	H	20	3.384	18.931	-9.331	1.00	0.25	N
ATOM	280	N	LEU	H	21	4.833	12.049	-11.663	1.00	0.19	N
ATOM	282	CA	LEU	H	21	3.858	10.991	-11.925	1.00	0.19	C
ATOM	284	C	LEU	H	21	2.434	11.521	-11.697	1.00	0.19	C
ATOM	285	CB	LEU	H	21	4.157	9.773	-11.022	1.00	0.19	C
ATOM	288	O	LEU	H	21	2.226	12.375	-10.827	1.00	0.19	O
ATOM	289	CG	LEU	H	21	5.647	9.381	-10.890	1.00	0.19	C
ATOM	291	CD1	LEU	H	21	5.780	8.136	-10.017	1.00	0.19	C
ATOM	295	CD2	LEU	H	21	6.323	9.097	-12.232	1.00	0.19	C
ATOM	299	N	SER	H	22	1.448	11.003	-12.432	1.00	0.17	N
ATOM	301	CA	SER	H	22	0.037	11.382	-12.272	1.00	0.17	C
ATOM	303	C	SER	H	22	-0.856	10.181	-11.958	1.00	0.17	C
ATOM	304	CB	SER	H	22	-0.471	12.179	-13.480	1.00	0.17	C
ATOM	307	O	SER	H	22	-0.540	9.032	-12.265	1.00	0.17	O
ATOM	308	OG	SER	H	22	-0.711	11.349	-14.597	1.00	0.17	O
ATOM	310	N	CYS	H	23	-1.980	10.470	-11.310	1.00	0.20	N
ATOM	312	CA	CYS	H	23	-3.021	9.530	-10.919	1.00	0.20	C
ATOM	314	C	CYS	H	23	-4.406	10.175	-11.102	1.00	0.20	C
ATOM	315	CB	CYS	H	23	-2.752	9.099	-9.476	1.00	0.20	C
ATOM	318	O	CYS	H	23	-4.983	10.712	-10.148	1.00	0.20	O
ATOM	319	SG	CYS	H	23	-4.037	8.082	-8.710	1.00	0.20	S
ATOM	320	N	PRO	H	24	-4.923	10.180	-12.341	1.00	0.25	N

ATOM	321	CA	PRO H	24	-6.339	10.361	-12.620	1.00	0.25	C
ATOM	323	C	PRO H	24	-7.220	9.374	-11.853	1.00	0.25	C
ATOM	324	CB	PRO H	24	-6.476	10.167	-14.132	1.00	0.25	C
ATOM	327	O	PRO H	24	-6.962	8.170	-11.847	1.00	0.25	O
ATOM	328	CG	PRO H	24	-5.136	10.654	-14.677	1.00	0.25	C
ATOM	331	CD	PRO H	24	-4.143	10.301	-13.570	1.00	0.25	C
ATOM	334	N	ALA H	25	-8.280	9.876	-11.226	1.00	0.33	N
ATOM	336	CA	ALA H	25	-9.328	9.056	-10.633	1.00	0.33	C
ATOM	338	C	ALA H	25	-10.604	9.087	-11.482	1.00	0.33	C
ATOM	339	CB	ALA H	25	-9.589	9.532	-9.205	1.00	0.33	C
ATOM	343	O	ALA H	25	-10.957	10.100	-12.091	1.00	0.33	O
ATOM	344	N	SER H	26	-11.336	7.981	-11.461	1.00	0.24	N
ATOM	346	CA	SER H	26	-12.613	7.797	-12.144	1.00	0.24	C
ATOM	348	C	SER H	26	-13.584	7.028	-11.245	1.00	0.24	C
ATOM	349	CB	SER H	26	-12.381	7.097	-13.486	1.00	0.24	C
ATOM	352	O	SER H	26	-13.177	6.310	-10.327	1.00	0.24	O
ATOM	353	OG	SER H	26	-11.916	5.784	-13.274	1.00	0.24	O
ATOM	355	N	GLY H	27	-14.884	7.238	-11.459	1.00	0.46	N
ATOM	357	CA	GLY H	27	-15.945	6.666	-10.622	1.00	0.46	C
ATOM	360	C	GLY H	27	-16.200	7.379	-9.289	1.00	0.46	C
ATOM	361	O	GLY H	27	-17.154	7.032	-8.600	1.00	0.46	O
ATOM	362	N	LEU H	28	-15.385	8.377	-8.932	1.00	0.30	N
ATOM	364	CA	LEU H	28	-15.558	9.248	-7.765	1.00	0.30	C
ATOM	366	C	LEU H	28	-14.800	10.568	-7.943	1.00	0.30	C
ATOM	367	CB	LEU H	28	-15.125	8.516	-6.484	1.00	0.30	C
ATOM	370	O	LEU H	28	-13.973	10.684	-8.850	1.00	0.30	O
ATOM	371	CG	LEU H	28	-13.722	7.881	-6.476	1.00	0.30	C
ATOM	373	CD1	LEU H	28	-12.543	8.860	-6.480	1.00	0.30	C
ATOM	377	CD2	LEU H	28	-13.618	7.094	-5.178	1.00	0.30	C
ATOM	381	N	ASN H	29	-15.054	11.549	-7.076	1.00	0.39	N
ATOM	383	CA	ASN H	29	-14.268	12.780	-7.020	1.00	0.39	C
ATOM	385	C	ASN H	29	-13.145	12.646	-5.981	1.00	0.39	C
ATOM	386	CB	ASN H	29	-15.136	14.009	-6.690	1.00	0.39	C
ATOM	389	O	ASN H	29	-13.388	12.245	-4.846	1.00	0.39	O
ATOM	390	CG	ASN H	29	-16.558	13.969	-7.210	1.00	0.39	C
ATOM	391	ND2	ASN H	29	-17.480	13.459	-6.431	1.00	0.39	N
ATOM	394	OD1	ASN H	29	-16.845	14.429	-8.302	1.00	0.39	O
ATOM	395	N	ILE H	30	-11.927	13.085	-6.300	1.00	0.19	N
ATOM	397	CA	ILE H	30	-10.833	13.125	-5.311	1.00	0.19	C
ATOM	399	C	ILE H	30	-11.035	14.203	-4.233	1.00	0.19	C
ATOM	400	CB	ILE H	30	-9.445	13.239	-5.978	1.00	0.19	C
ATOM	402	O	ILE H	30	-10.316	14.206	-3.244	1.00	0.19	O
ATOM	403	CG1	ILE H	30	-9.179	14.624	-6.609	1.00	0.19	C

ATOM	406	CG2 ILE H	30	-9.238	12.104	-6.990	1.00	0.19	C
ATOM	410	CD1 ILE H	30	-7.718	14.821	-7.030	1.00	0.19	C
ATOM	414	N LYS H	35	-12.001	15.121	-4.394	1.00	0.23	N
ATOM	416	CA LYS H	35	-12.400	16.081	-3.342	1.00	0.23	C
ATOM	418	C LYS H	35	-12.891	15.364	-2.077	1.00	0.23	C
ATOM	419	CB LYS H	35	-13.549	16.978	-3.838	1.00	0.23	C
ATOM	422	O LYS H	35	-12.718	15.873	-0.976	1.00	0.23	O
ATOM	423	CG LYS H	35	-13.220	17.848	-5.057	1.00	0.23	C
ATOM	426	CD LYS H	35	-14.432	18.713	-5.441	1.00	0.23	C
ATOM	429	CE LYS H	35	-14.148	19.654	-6.623	1.00	0.23	C
ATOM	432	NZ LYS H	35	-14.111	18.946	-7.929	1.00	0.23	N
ATOM	436	N ASP H	36	-13.500	14.197	-2.263	1.00	0.41	N
ATOM	438	CA ASP H	36	-14.258	13.461	-1.254	1.00	0.41	C
ATOM	440	C ASP H	36	-13.350	12.612	-0.341	1.00	0.41	C
ATOM	441	CB ASP H	36	-15.305	12.564	-1.964	1.00	0.41	C
ATOM	444	O ASP H	36	-13.812	12.047	0.650	1.00	0.41	O
ATOM	445	CG ASP H	36	-16.047	13.170	-3.178	1.00	0.41	C
ATOM	446	OD1 ASP H	36	-16.088	14.412	-3.330	1.00	0.41	O
ATOM	447	OD2 ASP H	36	-16.559	12.386	-4.013	1.00	0.41	O
ATOM	448	N THR H	37	-12.062	12.477	-0.687	1.00	0.34	N
ATOM	450	CA THR H	37	-11.143	11.496	-0.093	1.00	0.34	C
ATOM	452	C THR H	37	-9.694	11.962	-0.082	1.00	0.34	C
ATOM	453	CB THR H	37	-11.185	10.153	-0.839	1.00	0.34	C
ATOM	455	O THR H	37	-9.256	12.724	-0.939	1.00	0.34	O
ATOM	456	CG2 THR H	37	-12.545	9.461	-0.774	1.00	0.34	C
ATOM	460	OG1 THR H	37	-10.849	10.311	-2.201	1.00	0.34	O
ATOM	462	N TYR H	38	-8.895	11.421	0.832	1.00	0.24	N
ATOM	464	CA TYR H	38	-7.453	11.634	0.830	1.00	0.24	C
ATOM	466	C TYR H	38	-6.767	10.788	-0.245	1.00	0.24	C
ATOM	467	CB TYR H	38	-6.896	11.346	2.227	1.00	0.24	C
ATOM	470	O TYR H	38	-7.022	9.590	-0.382	1.00	0.24	O
ATOM	471	CG TYR H	38	-7.509	12.161	3.361	1.00	0.24	C
ATOM	472	CD1 TYR H	38	-8.034	13.456	3.139	1.00	0.24	C
ATOM	474	CD2 TYR H	38	-7.578	11.601	4.652	1.00	0.24	C
ATOM	476	CE1 TYR H	38	-8.641	14.173	4.187	1.00	0.24	C
ATOM	478	CE2 TYR H	38	-8.178	12.318	5.706	1.00	0.24	C
ATOM	480	OH TYR H	38	-9.249	14.315	6.496	1.00	0.24	O
ATOM	482	CZ TYR H	38	-8.721	13.601	5.472	1.00	0.24	C
ATOM	483	N MET H	39	-5.852	11.418	-0.981	1.00	0.18	N
ATOM	485	CA MET H	39	-5.030	10.758	-1.995	1.00	0.18	C
ATOM	487	C MET H	39	-3.628	10.529	-1.435	1.00	0.18	C
ATOM	488	CB MET H	39	-5.019	11.575	-3.295	1.00	0.18	C
ATOM	491	O MET H	39	-2.851	11.471	-1.250	1.00	0.18	O

ATOM	492	CG	MET H	39	-6.408	11.658	-3.947	1.00	0.18	C
ATOM	495	SD	MET H	39	-7.139	10.079	-4.473	1.00	0.18	S
ATOM	496	CE	MET H	39	-6.048	9.618	-5.847	1.00	0.18	C
ATOM	500	N	HIS H	40	-3.332	9.272	-1.126	1.00	0.18	N
ATOM	502	CA	HIS H	40	-2.047	8.794	-0.633	1.00	0.18	C
ATOM	504	C	HIS H	40	-1.146	8.376	-1.803	1.00	0.18	C
ATOM	505	CB	HIS H	40	-2.280	7.638	0.363	1.00	0.18	C
ATOM	508	O	HIS H	40	-1.632	7.995	-2.869	1.00	0.18	O
ATOM	509	CG	HIS H	40	-2.946	8.059	1.658	1.00	0.18	C
ATOM	510	CD2	HIS H	40	-4.155	8.690	1.814	1.00	0.18	C
ATOM	512	ND1	HIS H	40	-2.450	7.847	2.925	1.00	0.18	N
ATOM	514	CE1	HIS H	40	-3.303	8.386	3.811	1.00	0.18	C
ATOM	516	NE2	HIS H	40	-4.347	8.939	3.179	1.00	0.18	N
ATOM	517	N	TRP H	41	0.168	8.418	-1.587	1.00	0.16	N
ATOM	519	CA	TRP H	41	1.159	7.811	-2.478	1.00	0.16	C
ATOM	521	C	TRP H	41	2.084	6.882	-1.685	1.00	0.16	C
ATOM	522	CB	TRP H	41	1.929	8.884	-3.254	1.00	0.16	C
ATOM	525	O	TRP H	41	2.478	7.196	-0.556	1.00	0.16	O
ATOM	526	CG	TRP H	41	1.185	9.550	-4.377	1.00	0.16	C
ATOM	527	CD1	TRP H	41	0.357	10.613	-4.258	1.00	0.16	C
ATOM	529	CD2	TRP H	41	1.174	9.201	-5.800	1.00	0.16	C
ATOM	530	CE2	TRP H	41	0.369	10.154	-6.496	1.00	0.16	C
ATOM	531	CE3	TRP H	41	1.799	8.204	-6.582	1.00	0.16	C
ATOM	533	NE1	TRP H	41	-0.121	10.976	-5.504	1.00	0.16	N
ATOM	535	CH2	TRP H	41	0.858	9.136	-8.638	1.00	0.16	C
ATOM	537	CZ2	TRP H	41	0.214	10.138	-7.891	1.00	0.16	C
ATOM	539	CZ3	TRP H	41	1.639	8.168	-7.982	1.00	0.16	C
ATOM	541	N	VAL H	42	2.412	5.735	-2.279	1.00	0.18	N
ATOM	543	CA	VAL H	42	3.161	4.632	-1.661	1.00	0.18	C
ATOM	545	C	VAL H	42	4.218	4.124	-2.643	1.00	0.18	C
ATOM	546	CB	VAL H	42	2.214	3.488	-1.229	1.00	0.18	C
ATOM	548	O	VAL H	42	3.895	3.780	-3.779	1.00	0.18	O
ATOM	549	CG1	VAL H	42	2.974	2.316	-0.596	1.00	0.18	C
ATOM	553	CG2	VAL H	42	1.167	3.958	-0.207	1.00	0.18	C
ATOM	557	N	LYS H	43	5.479	4.078	-2.215	1.00	0.15	N
ATOM	559	CA	LYS H	43	6.604	3.493	-2.958	1.00	0.15	C
ATOM	561	C	LYS H	43	6.669	1.984	-2.697	1.00	0.15	C
ATOM	562	CB	LYS H	43	7.889	4.221	-2.520	1.00	0.15	C
ATOM	565	O	LYS H	43	6.317	1.533	-1.610	1.00	0.15	O
ATOM	566	CG	LYS H	43	9.165	3.893	-3.312	1.00	0.15	C
ATOM	569	CD	LYS H	43	10.333	4.760	-2.800	1.00	0.15	C
ATOM	572	CE	LYS H	43	11.702	4.222	-3.234	1.00	0.15	C
ATOM	575	NZ	LYS H	43	12.816	4.958	-2.586	1.00	0.15	N

ATOM	579	N	GLN	H	44	7.129	1.213	-3.675	1.00	0.15		N
ATOM	581	CA	GLN	H	44	7.465	-0.201	-3.543	1.00	0.15		C
ATOM	583	C	GLN	H	44	8.715	-0.518	-4.353	1.00	0.15		C
ATOM	584	CB	GLN	H	44	6.297	-1.086	-3.993	1.00	0.15		C
ATOM	587	O	GLN	H	44	8.715	-0.451	-5.585	1.00	0.15		O
ATOM	588	CG	GLN	H	44	6.651	-2.584	-3.981	1.00	0.15		C
ATOM	591	CD	GLN	H	44	5.417	-3.467	-4.075	1.00	0.15		C
ATOM	592	NE2	GLN	H	44	5.179	-4.328	-3.111	1.00	0.15		N
ATOM	595	OE1	GLN	H	44	4.648	-3.397	-5.025	1.00	0.15		O
ATOM	596	N	ARG	H	45	9.777	-0.901	-3.657	1.00	0.28		N
ATOM	598	CA	ARG	H	45	10.989	-1.443	-4.272	1.00	0.28		C
ATOM	600	C	ARG	H	45	10.901	-2.964	-4.424	1.00	0.28		C
ATOM	601	CB	ARG	H	45	12.192	-1.019	-3.427	1.00	0.28		C
ATOM	604	O	ARG	H	45	10.138	-3.608	-3.699	1.00	0.28		O
ATOM	605	CG	ARG	H	45	12.548	0.433	-3.747	1.00	0.28		C
ATOM	608	CD	ARG	H	45	13.679	0.921	-2.854	1.00	0.28		C
ATOM	611	NE	ARG	H	45	13.196	1.384	-1.538	1.00	0.28		N
ATOM	613	NH1	ARG	H	45	15.258	1.684	-0.632	1.00	0.28		N
ATOM	616	NH2	ARG	H	45	13.598	2.965	0.060	1.00	0.28		N
ATOM	619	CZ	ARG	H	45	14.000	1.989	-0.693	1.00	0.28		C
ATOM	620	N	PRO	H	46	11.702	-3.565	-5.324	1.00	1.03		N
ATOM	621	CA	PRO	H	46	12.053	-4.975	-5.202	1.00	1.03		C
ATOM	623	C	PRO	H	46	12.600	-5.228	-3.793	1.00	1.03		C
ATOM	624	CB	PRO	H	46	13.111	-5.247	-6.280	1.00	1.03		C
ATOM	627	O	PRO	H	46	13.263	-4.357	-3.234	1.00	1.03		O
ATOM	628	CG	PRO	H	46	12.940	-4.090	-7.265	1.00	1.03		C
ATOM	631	CD	PRO	H	46	12.497	-2.938	-6.367	1.00	1.03		C
ATOM	634	N	GLU	H	47	12.312	-6.395	-3.221	1.00	1.92		N
ATOM	636	CA	GLU	H	47	12.653	-6.789	-1.840	1.00	1.92		C
ATOM	638	C	GLU	H	47	11.956	-5.975	-0.728	1.00	1.92		C
ATOM	639	CB	GLU	H	47	14.175	-6.764	-1.594	1.00	1.92		C
ATOM	642	O	GLU	H	47	11.299	-6.549	0.135	1.00	1.92		O
ATOM	643	CG	GLU	H	47	15.102	-7.349	-2.671	1.00	1.92		C
ATOM	646	CD	GLU	H	47	16.569	-6.950	-2.425	1.00	1.92		C
ATOM	647	OE1	GLU	H	47	16.807	-5.843	-1.878	1.00	1.92		O
ATOM	648	OE2	GLU	H	47	17.445	-7.755	-2.807	1.00	1.92		O
ATOM	649	N	GLN	H	48	12.112	-4.650	-0.723	1.00	1.43		N
ATOM	651	CA	GLN	H	48	12.063	-3.809	0.482	1.00	1.43		C
ATOM	653	C	GLN	H	48	10.658	-3.370	0.949	1.00	1.43		C
ATOM	654	CB	GLN	H	48	13.047	-2.635	0.291	1.00	1.43		C
ATOM	657	O	GLN	H	48	10.538	-2.555	1.862	1.00	1.43		O
ATOM	658	CG	GLN	H	48	14.526	-3.097	0.269	1.00	1.43		C
ATOM	661	CD	GLN	H	48	15.392	-2.398	-0.783	1.00	1.43		C

ATOM	662	NE2	GLN	H	48	16.202	-3.109	-1.538	1.00	1.43		N
ATOM	665	OE1	GLN	H	48	15.392	-1.180	-0.921	1.00	1.43		O
ATOM	666	N	GLY	H	49	9.591	-3.936	0.385	1.00	0.51		N
ATOM	668	CA	GLY	H	49	8.222	-3.741	0.874	1.00	0.51		C
ATOM	671	C	GLY	H	49	7.542	-2.466	0.369	1.00	0.51		C
ATOM	672	O	GLY	H	49	7.745	-2.062	-0.774	1.00	0.51		O
ATOM	673	N	LEU	H	50	6.659	-1.893	1.193	1.00	0.33		N
ATOM	675	CA	LEU	H	50	5.794	-0.756	0.855	1.00	0.33		C
ATOM	677	C	LEU	H	50	6.062	0.430	1.796	1.00	0.33		C
ATOM	678	CB	LEU	H	50	4.320	-1.204	0.912	1.00	0.33		C
ATOM	681	O	LEU	H	50	6.075	0.280	3.018	1.00	0.33		O
ATOM	682	CG	LEU	H	50	3.881	-2.090	-0.270	1.00	0.33		C
ATOM	684	CD1	LEU	H	50	2.739	-3.020	0.138	1.00	0.33		C
ATOM	688	CD2	LEU	H	50	3.381	-1.238	-1.437	1.00	0.33		C
ATOM	692	N	GLU	H	51	6.244	1.619	1.226	1.00	0.22		N
ATOM	694	CA	GLU	H	51	6.739	2.815	1.917	1.00	0.22		C
ATOM	696	C	GLU	H	51	5.746	3.972	1.711	1.00	0.22		C
ATOM	697	CB	GLU	H	51	8.164	3.207	1.431	1.00	0.22		C
ATOM	700	O	GLU	H	51	5.587	4.469	0.593	1.00	0.22		O
ATOM	701	CG	GLU	H	51	9.076	2.078	0.888	1.00	0.22		C
ATOM	704	CD	GLU	H	51	10.260	2.596	0.049	1.00	0.22		C
ATOM	705	OE1	GLU	H	51	10.552	2.021	-1.025	1.00	0.22		O
ATOM	706	OE2	GLU	H	51	10.930	3.579	0.438	1.00	0.22		O
ATOM	707	N	TRP	H	52	5.041	4.416	2.758	1.00	0.23		N
ATOM	709	CA	TRP	H	52	4.114	5.548	2.634	1.00	0.23		C
ATOM	711	C	TRP	H	52	4.865	6.879	2.506	1.00	0.23		C
ATOM	712	CB	TRP	H	52	3.115	5.567	3.794	1.00	0.23		C
ATOM	715	O	TRP	H	52	5.543	7.316	3.432	1.00	0.23		O
ATOM	716	CG	TRP	H	52	2.166	6.728	3.781	1.00	0.23		C
ATOM	717	CD1	TRP	H	52	1.139	6.892	2.916	1.00	0.23		C
ATOM	719	CD2	TRP	H	52	2.201	7.945	4.590	1.00	0.23		C
ATOM	720	CE2	TRP	H	52	1.095	8.765	4.221	1.00	0.23		C
ATOM	721	CE3	TRP	H	52	3.068	8.453	5.580	1.00	0.23		C
ATOM	723	NE1	TRP	H	52	0.525	8.106	3.153	1.00	0.23		N
ATOM	725	CH2	TRP	H	52	1.693	10.456	5.848	1.00	0.23		C
ATOM	727	CZ2	TRP	H	52	0.819	9.990	4.850	1.00	0.23		C
ATOM	729	CZ3	TRP	H	52	2.825	9.698	6.194	1.00	0.23		C
ATOM	731	N	ILE	H	53	4.718	7.540	1.356	1.00	0.21		N
ATOM	733	CA	ILE	H	53	5.397	8.807	1.046	1.00	0.21		C
ATOM	735	C	ILE	H	53	4.678	9.977	1.720	1.00	0.21		C
ATOM	736	CB	ILE	H	53	5.454	9.016	-0.487	1.00	0.21		C
ATOM	738	O	ILE	H	53	5.295	10.883	2.283	1.00	0.21		O
ATOM	739	CG1	ILE	H	53	6.164	7.833	-1.183	1.00	0.21		C

ATOM	742	CG2 ILE H	53	6.136	10.348	-0.856	1.00	0.21	C
ATOM	746	CD1 ILE H	53	6.065	7.889	-2.708	1.00	0.21	C
ATOM	750	N GLY H	54	3.349	9.978	1.623	1.00	0.20	N
ATOM	752	CA GLY H	54	2.513	11.072	2.083	1.00	0.20	C
ATOM	755	C GLY H	54	1.076	10.981	1.583	1.00	0.20	C
ATOM	756	O GLY H	54	0.684	10.030	0.901	1.00	0.20	O
ATOM	757	N ARG H	55	0.282	12.000	1.915	1.00	0.24	N
ATOM	759	CA ARG H	55	-1.098	12.164	1.452	1.00	0.24	C
ATOM	761	C ARG H	55	-1.466	13.627	1.271	1.00	0.24	C
ATOM	762	CB ARG H	55	-2.067	11.417	2.388	1.00	0.24	C
ATOM	765	O ARG H	55	-1.061	14.469	2.073	1.00	0.24	O
ATOM	766	CG ARG H	55	-2.510	12.171	3.658	1.00	0.24	C
ATOM	769	CD ARG H	55	-3.824	12.941	3.428	1.00	0.24	C
ATOM	772	NE ARG H	55	-3.786	14.334	3.916	1.00	0.24	N
ATOM	774	NH1 ARG H	55	-5.658	14.285	5.270	1.00	0.24	N
ATOM	777	NH2 ARG H	55	-4.659	16.211	4.844	1.00	0.24	N
ATOM	780	CZ ARG H	55	-4.693	14.924	4.678	1.00	0.24	C
ATOM	781	N ILE H	56	-2.294	13.918	0.277	1.00	0.26	N
ATOM	783	CA ILE H	56	-2.943	15.220	0.109	1.00	0.26	C
ATOM	785	C ILE H	56	-4.443	15.105	0.379	1.00	0.26	C
ATOM	786	CB ILE H	56	-2.596	15.845	-1.259	1.00	0.26	C
ATOM	788	O ILE H	56	-5.062	14.074	0.123	1.00	0.26	O
ATOM	789	CG1 ILE H	56	-3.079	17.311	-1.329	1.00	0.26	C
ATOM	792	CG2 ILE H	56	-3.149	15.022	-2.435	1.00	0.26	C
ATOM	796	CD1 ILE H	56	-2.415	18.117	-2.448	1.00	0.26	C
ATOM	800	N ASP H	57	-4.999	16.175	0.929	1.00	0.31	N
ATOM	802	CA ASP H	57	-6.428	16.464	0.986	1.00	0.31	C
ATOM	804	C ASP H	57	-6.768	17.406	-0.183	1.00	0.31	C
ATOM	805	CB ASP H	57	-6.675	17.058	2.375	1.00	0.31	C
ATOM	808	O ASP H	57	-6.380	18.578	-0.137	1.00	0.31	O
ATOM	809	CG ASP H	57	-8.029	17.701	2.631	1.00	0.31	C
ATOM	810	OD1 ASP H	57	-8.783	17.962	1.671	1.00	0.31	O
ATOM	811	OD2 ASP H	57	-8.261	17.957	3.834	1.00	0.31	O
ATOM	812	N PRO H	58	-7.404	16.921	-1.267	1.00	0.32	N
ATOM	813	CA PRO H	58	-7.653	17.738	-2.453	1.00	0.32	C
ATOM	815	C PRO H	58	-8.709	18.835	-2.257	1.00	0.32	C
ATOM	816	CB PRO H	58	-8.042	16.752	-3.562	1.00	0.32	C
ATOM	819	O PRO H	58	-8.780	19.739	-3.086	1.00	0.32	O
ATOM	820	CG PRO H	58	-7.411	15.444	-3.095	1.00	0.32	C
ATOM	823	CD PRO H	58	-7.665	15.526	-1.595	1.00	0.32	C
ATOM	826	N ALA H	59	-9.511	18.800	-1.186	1.00	0.47	N
ATOM	828	CA ALA H	59	-10.520	19.825	-0.913	1.00	0.47	C
ATOM	830	C ALA H	59	-9.915	21.159	-0.433	1.00	0.47	C

ATOM	831	CB	ALA H	59	-11.515	19.271	0.113	1.00	0.47	C
ATOM	835	O	ALA H	59	-10.545	22.203	-0.588	1.00	0.47	O
ATOM	836	N	ASN H	62	-8.707	21.141	0.149	1.00	0.52	N
ATOM	838	CA	ASN H	62	-8.033	22.353	0.649	1.00	0.52	C
ATOM	840	C	ASN H	62	-6.496	22.366	0.485	1.00	0.52	C
ATOM	841	CB	ASN H	62	-8.461	22.600	2.106	1.00	0.52	C
ATOM	844	O	ASN H	62	-5.836	23.303	0.928	1.00	0.52	O
ATOM	845	CG	ASN H	62	-8.033	21.477	3.025	1.00	0.52	C
ATOM	846	ND2	ASN H	62	-8.950	20.621	3.403	1.00	0.52	N
ATOM	849	OD1	ASN H	62	-6.869	21.357	3.378	1.00	0.52	O
ATOM	850	N	GLY H	63	-5.903	21.343	-0.136	1.00	0.37	N
ATOM	852	CA	GLY H	63	-4.467	21.263	-0.419	1.00	0.37	C
ATOM	855	C	GLY H	63	-3.589	20.757	0.734	1.00	0.37	C
ATOM	856	O	GLY H	63	-2.378	20.650	0.553	1.00	0.37	O
ATOM	857	N	ASN H	64	-4.140	20.404	1.907	1.00	0.45	N
ATOM	859	CA	ASN H	64	-3.339	19.948	3.055	1.00	0.45	C
ATOM	861	C	ASN H	64	-2.561	18.645	2.780	1.00	0.45	C
ATOM	862	CB	ASN H	64	-4.216	19.782	4.314	1.00	0.45	C
ATOM	865	O	ASN H	64	-3.082	17.532	2.934	1.00	0.45	O
ATOM	866	CG	ASN H	64	-3.991	20.889	5.310	1.00	0.45	C
ATOM	867	ND2	ASN H	64	-4.796	21.917	5.284	1.00	0.45	N
ATOM	870	OD1	ASN H	64	-3.067	20.805	6.112	1.00	0.45	O
ATOM	871	N	THR H	65	-1.271	18.767	2.485	1.00	0.30	N
ATOM	873	CA	THR H	65	-0.325	17.648	2.419	1.00	0.30	C
ATOM	875	C	THR H	65	0.150	17.209	3.806	1.00	0.30	C
ATOM	876	CB	THR H	65	0.897	18.012	1.565	1.00	0.30	C
ATOM	878	O	THR H	65	0.253	18.027	4.725	1.00	0.30	O
ATOM	879	CG2	THR H	65	0.545	18.238	0.097	1.00	0.30	C
ATOM	883	OG1	THR H	65	1.500	19.191	2.046	1.00	0.30	O
ATOM	885	N	LYS H	66	0.495	15.927	3.948	1.00	0.25	N
ATOM	887	CA	LYS H	66	1.264	15.330	5.057	1.00	0.25	C
ATOM	889	C	LYS H	66	2.247	14.320	4.446	1.00	0.25	C
ATOM	890	CB	LYS H	66	0.320	14.666	6.086	1.00	0.25	C
ATOM	893	O	LYS H	66	1.889	13.692	3.454	1.00	0.25	O
ATOM	894	CG	LYS H	66	-0.798	15.581	6.640	1.00	0.25	C
ATOM	897	CD	LYS H	66	-0.312	16.723	7.556	1.00	0.25	C
ATOM	900	CE	LYS H	66	-1.388	17.821	7.700	1.00	0.25	C
ATOM	903	NZ	LYS H	66	-1.042	19.060	6.953	1.00	0.25	N
ATOM	907	N	PHE H	67	3.446	14.172	5.003	1.00	0.20	N
ATOM	909	CA	PHE H	67	4.519	13.321	4.467	1.00	0.20	C
ATOM	911	C	PHE H	67	5.153	12.490	5.585	1.00	0.20	C
ATOM	912	CB	PHE H	67	5.588	14.181	3.765	1.00	0.20	C
ATOM	915	O	PHE H	67	5.098	12.893	6.748	1.00	0.20	O

ATOM	916	CG	PHE	H	67	5.075	15.073	2.647	1.00	0.20	C
ATOM	917	CD1	PHE	H	67	4.655	14.503	1.432	1.00	0.20	C
ATOM	919	CD2	PHE	H	67	5.041	16.472	2.808	1.00	0.20	C
ATOM	921	CE1	PHE	H	67	4.176	15.324	0.395	1.00	0.20	C
ATOM	923	CE2	PHE	H	67	4.561	17.292	1.770	1.00	0.20	C
ATOM	925	CZ	PHE	H	67	4.122	16.719	0.564	1.00	0.20	C
ATOM	927	N	ASP	H	68	5.777	11.364	5.245	1.00	0.12	N
ATOM	929	CA	ASP	H	68	6.790	10.768	6.120	1.00	0.12	C
ATOM	931	C	ASP	H	68	8.058	11.654	6.078	1.00	0.12	C
ATOM	932	CB	ASP	H	68	7.054	9.309	5.707	1.00	0.12	C
ATOM	935	O	ASP	H	68	8.513	11.989	4.978	1.00	0.12	O
ATOM	936	CG	ASP	H	68	8.050	8.572	6.612	1.00	0.12	C
ATOM	937	OD1	ASP	H	68	9.016	9.190	7.117	1.00	0.12	O
ATOM	938	OD2	ASP	H	68	7.865	7.366	6.877	1.00	0.12	O
ATOM	939	N	PRO	H	69	8.653	12.040	7.229	1.00	0.22	N
ATOM	940	CA	PRO	H	69	9.900	12.809	7.285	1.00	0.22	C
ATOM	942	C	PRO	H	69	11.030	12.285	6.388	1.00	0.22	C
ATOM	943	CB	PRO	H	69	10.315	12.782	8.760	1.00	0.22	C
ATOM	946	O	PRO	H	69	11.817	13.082	5.884	1.00	0.22	O
ATOM	947	CG	PRO	H	69	8.973	12.738	9.486	1.00	0.22	C
ATOM	950	CD	PRO	H	69	8.129	11.847	8.577	1.00	0.22	C
ATOM	953	N	LYS	H	70	11.077	10.974	6.125	1.00	0.29	N
ATOM	955	CA	LYS	H	70	12.062	10.316	5.246	1.00	0.29	C
ATOM	957	C	LYS	H	70	11.999	10.811	3.792	1.00	0.29	C
ATOM	958	CB	LYS	H	70	11.829	8.795	5.308	1.00	0.29	C
ATOM	961	O	LYS	H	70	13.008	10.779	3.097	1.00	0.29	O
ATOM	962	CG	LYS	H	70	12.001	8.215	6.730	1.00	0.29	C
ATOM	965	CD	LYS	H	70	11.402	6.803	6.865	1.00	0.29	C
ATOM	968	CE	LYS	H	70	11.045	6.468	8.325	1.00	0.29	C
ATOM	971	NZ	LYS	H	70	9.797	7.149	8.750	1.00	0.29	N
ATOM	975	N	PHE	H	71	10.838	11.294	3.341	1.00	0.19	N
ATOM	977	CA	PHE	H	71	10.627	11.858	2.002	1.00	0.19	C
ATOM	979	C	PHE	H	71	10.544	13.397	1.988	1.00	0.19	C
ATOM	980	CB	PHE	H	71	9.380	11.224	1.366	1.00	0.19	C
ATOM	983	O	PHE	H	71	10.341	13.990	0.922	1.00	0.19	O
ATOM	984	CG	PHE	H	71	9.509	9.740	1.073	1.00	0.19	C
ATOM	985	CD1	PHE	H	71	10.119	9.301	-0.118	1.00	0.19	C
ATOM	987	CD2	PHE	H	71	9.006	8.795	1.984	1.00	0.19	C
ATOM	989	CE1	PHE	H	71	10.229	7.924	-0.388	1.00	0.19	C
ATOM	991	CE2	PHE	H	71	9.107	7.421	1.712	1.00	0.19	C
ATOM	993	CZ	PHE	H	71	9.725	6.984	0.529	1.00	0.19	C
ATOM	995	N	GLN	H	72	10.703	14.074	3.131	1.00	0.24	N
ATOM	997	CA	GLN	H	72	10.620	15.534	3.197	1.00	0.24	C

ATOM	999	C	GLN	H	72	11.746	16.188	2.372	1.00	0.24	C
ATOM	1000	CB	GLN	H	72	10.612	15.985	4.668	1.00	0.24	C
ATOM	1003	O	GLN	H	72	12.926	15.948	2.601	1.00	0.24	O
ATOM	1004	CG	GLN	H	72	10.514	17.509	4.842	1.00	0.24	C
ATOM	1007	CD	GLN	H	72	9.319	18.126	4.118	1.00	0.24	C
ATOM	1008	NE2	GLN	H	72	9.512	19.198	3.381	1.00	0.24	N
ATOM	1011	OE1	GLN	H	72	8.195	17.658	4.178	1.00	0.24	O
ATOM	1012	N	GLY	H	74	11.386	17.013	1.382	1.00	0.25	N
ATOM	1014	CA	GLY	H	74	12.329	17.624	0.427	1.00	0.25	C
ATOM	1017	C	GLY	H	74	12.686	16.745	-0.784	1.00	0.25	C
ATOM	1018	O	GLY	H	74	13.142	17.266	-1.799	1.00	0.25	O
ATOM	1019	N	LYS	H	75	12.426	15.433	-0.717	1.00	0.21	N
ATOM	1021	CA	LYS	H	75	12.487	14.504	-1.859	1.00	0.21	C
ATOM	1023	C	LYS	H	75	11.187	14.512	-2.669	1.00	0.21	C
ATOM	1024	CB	LYS	H	75	12.825	13.096	-1.320	1.00	0.21	C
ATOM	1027	O	LYS	H	75	11.228	14.543	-3.898	1.00	0.21	O
ATOM	1028	CG	LYS	H	75	12.587	11.932	-2.299	1.00	0.21	C
ATOM	1031	CD	LYS	H	75	13.380	12.035	-3.605	1.00	0.21	C
ATOM	1034	CE	LYS	H	75	14.874	11.830	-3.351	1.00	0.21	C
ATOM	1037	NZ	LYS	H	75	15.596	11.767	-4.633	1.00	0.21	N
ATOM	1041	N	ALA	H	76	10.048	14.443	-1.983	1.00	0.13	N
ATOM	1043	CA	ALA	H	76	8.727	14.331	-2.590	1.00	0.13	C
ATOM	1045	C	ALA	H	76	7.924	15.637	-2.503	1.00	0.13	C
ATOM	1046	CB	ALA	H	76	7.984	13.163	-1.930	1.00	0.13	C
ATOM	1050	O	ALA	H	76	8.129	16.475	-1.626	1.00	0.13	O
ATOM	1051	N	THR	H	77	6.959	15.795	-3.407	1.00	0.15	N
ATOM	1053	CA	THR	H	77	5.935	16.846	-3.367	1.00	0.15	C
ATOM	1055	C	THR	H	77	4.653	16.327	-4.012	1.00	0.15	C
ATOM	1056	CB	THR	H	77	6.459	18.135	-4.021	1.00	0.15	C
ATOM	1058	O	THR	H	77	4.564	16.157	-5.228	1.00	0.15	O
ATOM	1059	CG2	THR	H	77	5.380	19.168	-4.355	1.00	0.15	C
ATOM	1063	OG1	THR	H	77	7.317	18.767	-3.102	1.00	0.15	O
ATOM	1065	N	ILE	H	78	3.650	16.040	-3.180	1.00	0.13	N
ATOM	1067	CA	ILE	H	78	2.323	15.610	-3.634	1.00	0.13	C
ATOM	1069	C	ILE	H	78	1.458	16.851	-3.883	1.00	0.13	C
ATOM	1070	CB	ILE	H	78	1.676	14.605	-2.651	1.00	0.13	C
ATOM	1072	O	ILE	H	78	1.451	17.783	-3.085	1.00	0.13	O
ATOM	1073	CG1	ILE	H	78	2.530	13.317	-2.528	1.00	0.13	C
ATOM	1076	CG2	ILE	H	78	0.259	14.216	-3.112	1.00	0.13	C
ATOM	1080	CD1	ILE	H	78	2.169	12.455	-1.310	1.00	0.13	C
ATOM	1084	N	THR	H	79	0.719	16.852	-4.988	1.00	0.18	N
ATOM	1086	CA	THR	H	79	-0.197	17.921	-5.424	1.00	0.18	C
ATOM	1088	C	THR	H	79	-1.460	17.293	-6.024	1.00	0.18	C

ATOM	1089	CB	THR H	79	0.503	18.885	-6.408	1.00	0.18	C
ATOM	1091	O	THR H	79	-1.476	16.094	-6.298	1.00	0.18	O
ATOM	1092	CG2	THR H	79	1.417	19.877	-5.692	1.00	0.18	C
ATOM	1096	OG1	THR H	79	1.321	18.191	-7.331	1.00	0.18	O
ATOM	1098	N	ALA H	80	-2.534	18.060	-6.204	1.00	0.16	N
ATOM	1100	CA	ALA H	80	-3.783	17.570	-6.784	1.00	0.16	C
ATOM	1102	C	ALA H	80	-4.518	18.694	-7.514	1.00	0.16	C
ATOM	1103	CB	ALA H	80	-4.663	16.955	-5.686	1.00	0.16	C
ATOM	1107	O	ALA H	80	-4.469	19.845	-7.086	1.00	0.16	O
ATOM	1108	N	ASP H	81	-5.218	18.336	-8.584	1.00	0.25	N
ATOM	1110	CA	ASP H	81	-6.183	19.187	-9.266	1.00	0.25	C
ATOM	1112	C	ASP H	81	-7.556	18.509	-9.214	1.00	0.25	C
ATOM	1113	CB	ASP H	81	-5.733	19.451	-10.705	1.00	0.25	C
ATOM	1116	O	ASP H	81	-7.730	17.374	-9.661	1.00	0.25	O
ATOM	1117	CG	ASP H	81	-6.846	20.091	-11.535	1.00	0.25	C
ATOM	1118	OD1	ASP H	81	-7.724	20.796	-10.986	1.00	0.25	O
ATOM	1119	OD2	ASP H	81	-6.917	19.772	-12.734	1.00	0.25	O
ATOM	1120	N	THR H	82	-8.542	19.207	-8.654	1.00	0.29	N
ATOM	1122	CA	THR H	82	-9.907	18.685	-8.517	1.00	0.29	C
ATOM	1124	C	THR H	82	-10.820	19.024	-9.695	1.00	0.29	C
ATOM	1125	CB	THR H	82	-10.554	19.091	-7.190	1.00	0.29	C
ATOM	1127	O	THR H	82	-11.987	18.627	-9.667	1.00	0.29	O
ATOM	1128	CG2	THR H	82	-9.667	18.794	-5.987	1.00	0.29	C
ATOM	1132	OG1	THR H	82	-10.922	20.447	-7.150	1.00	0.29	O
ATOM	1134	N	SER H	83	-10.322	19.734	-10.713	1.00	0.35	N
ATOM	1136	CA	SER H	83	-10.998	19.902	-12.004	1.00	0.35	C
ATOM	1138	C	SER H	83	-10.716	18.704	-12.922	1.00	0.35	C
ATOM	1139	CB	SER H	83	-10.643	21.256	-12.635	1.00	0.35	C
ATOM	1142	O	SER H	83	-11.658	18.024	-13.318	1.00	0.35	O
ATOM	1143	OG	SER H	83	-9.324	21.328	-13.124	1.00	0.35	O
ATOM	1145	N	SER H	84	-9.445	18.343	-13.147	1.00	0.25	N
ATOM	1147	CA	SER H	84	-9.047	17.102	-13.845	1.00	0.25	C
ATOM	1149	C	SER H	84	-9.091	15.840	-12.972	1.00	0.25	C
ATOM	1150	CB	SER H	84	-7.657	17.243	-14.478	1.00	0.25	C
ATOM	1153	O	SER H	84	-8.675	14.771	-13.418	1.00	0.25	O
ATOM	1154	OG	SER H	84	-6.643	17.378	-13.502	1.00	0.25	O
ATOM	1156	N	ASN H	85	-9.567	15.947	-11.727	1.00	0.25	N
ATOM	1158	CA	ASN H	85	-9.739	14.829	-10.795	1.00	0.25	C
ATOM	1160	C	ASN H	85	-8.461	13.980	-10.605	1.00	0.25	C
ATOM	1161	CB	ASN H	85	-10.970	14.022	-11.243	1.00	0.25	C
ATOM	1164	O	ASN H	85	-8.521	12.756	-10.477	1.00	0.25	O
ATOM	1165	CG	ASN H	85	-11.637	13.298	-10.098	1.00	0.25	C
ATOM	1166	ND2	ASN H	85	-11.997	12.055	-10.291	1.00	0.25	N

ATOM	1169	OD1	ASN	H	85	-11.864	13.861	-9.035	1.00	0.25	O
ATOM	1170	N	THR	H	86	-7.299	14.638	-10.626	1.00	0.19	N
ATOM	1172	CA	THR	H	86	-5.984	13.999	-10.742	1.00	0.19	C
ATOM	1174	C	THR	H	86	-5.067	14.399	-9.590	1.00	0.19	C
ATOM	1175	CB	THR	H	86	-5.348	14.327	-12.102	1.00	0.19	C
ATOM	1177	O	THR	H	86	-4.824	15.583	-9.347	1.00	0.19	O
ATOM	1178	CG2	THR	H	86	-3.935	13.764	-12.246	1.00	0.19	C
ATOM	1182	OG1	THR	H	86	-6.096	13.734	-13.138	1.00	0.19	O
ATOM	1184	N	ALA	H	87	-4.522	13.405	-8.888	1.00	0.16	N
ATOM	1186	CA	ALA	H	87	-3.405	13.594	-7.965	1.00	0.16	C
ATOM	1188	C	ALA	H	87	-2.061	13.460	-8.705	1.00	0.16	C
ATOM	1189	CB	ALA	H	87	-3.540	12.597	-6.809	1.00	0.16	C
ATOM	1193	O	ALA	H	87	-1.954	12.723	-9.683	1.00	0.16	O
ATOM	1194	N	TYR	H	88	-1.017	14.125	-8.214	1.00	0.17	N
ATOM	1196	CA	TYR	H	88	0.321	14.122	-8.809	1.00	0.17	C
ATOM	1198	C	TYR	H	88	1.403	13.964	-7.739	1.00	0.17	C
ATOM	1199	CB	TYR	H	88	0.574	15.419	-9.590	1.00	0.17	C
ATOM	1202	O	TYR	H	88	1.389	14.686	-6.739	1.00	0.17	O
ATOM	1203	CG	TYR	H	88	-0.417	15.772	-10.684	1.00	0.17	C
ATOM	1204	CD1	TYR	H	88	-0.140	15.428	-12.021	1.00	0.17	C
ATOM	1206	CD2	TYR	H	88	-1.582	16.503	-10.373	1.00	0.17	C
ATOM	1208	CE1	TYR	H	88	-1.027	15.817	-13.044	1.00	0.17	C
ATOM	1210	CE2	TYR	H	88	-2.475	16.885	-11.394	1.00	0.17	C
ATOM	1212	OH	TYR	H	88	-3.056	16.883	-13.733	1.00	0.17	O
ATOM	1214	CZ	TYR	H	88	-2.198	16.544	-12.736	1.00	0.17	C
ATOM	1215	N	LEU	H	89	2.375	13.087	-7.985	1.00	0.16	N
ATOM	1217	CA	LEU	H	89	3.576	12.916	-7.166	1.00	0.16	C
ATOM	1219	C	LEU	H	89	4.797	13.420	-7.933	1.00	0.16	C
ATOM	1220	CB	LEU	H	89	3.711	11.441	-6.749	1.00	0.16	C
ATOM	1223	O	LEU	H	89	5.220	12.822	-8.920	1.00	0.16	O
ATOM	1224	CG	LEU	H	89	5.060	11.069	-6.101	1.00	0.16	C
ATOM	1226	CD1	LEU	H	89	5.300	11.812	-4.784	1.00	0.16	C
ATOM	1230	CD2	LEU	H	89	5.105	9.572	-5.819	1.00	0.16	C
ATOM	1234	N	GLN	H	90	5.367	14.523	-7.464	1.00	0.12	N
ATOM	1236	CA	GLN	H	90	6.642	15.047	-7.932	1.00	0.12	C
ATOM	1238	C	GLN	H	90	7.773	14.496	-7.059	1.00	0.12	C
ATOM	1239	CB	GLN	H	90	6.537	16.575	-7.907	1.00	0.12	C
ATOM	1242	O	GLN	H	90	7.654	14.503	-5.832	1.00	0.12	O
ATOM	1243	CG	GLN	H	90	7.680	17.337	-8.584	1.00	0.12	C
ATOM	1246	CD	GLN	H	90	7.329	18.815	-8.777	1.00	0.12	C
ATOM	1247	NE2	GLN	H	90	8.309	19.674	-8.939	1.00	0.12	N
ATOM	1250	OE1	GLN	H	90	6.169	19.222	-8.813	1.00	0.12	O
ATOM	1251	N	LEU	H	91	8.856	14.032	-7.681	1.00	0.17	N

ATOM	1253	CA	LEU H	91	10.063	13.550	-7.005	1.00	0.17	C
ATOM	1255	C	LEU H	91	11.279	14.249	-7.617	1.00	0.17	C
ATOM	1256	CB	LEU H	91	10.178	12.020	-7.128	1.00	0.17	C
ATOM	1259	O	LEU H	91	11.420	14.286	-8.841	1.00	0.17	O
ATOM	1260	CG	LEU H	91	9.071	11.214	-6.427	1.00	0.17	C
ATOM	1262	CD1	LEU H	91	8.972	9.822	-7.047	1.00	0.17	C
ATOM	1266	CD2	LEU H	91	9.355	11.061	-4.933	1.00	0.17	C
ATOM	1270	N	SER H	92	12.136	14.818	-6.772	1.00	0.21	N
ATOM	1272	CA	SER H	92	13.267	15.657	-7.186	1.00	0.21	C
ATOM	1274	C	SER H	92	14.624	15.100	-6.760	1.00	0.21	C
ATOM	1275	CB	SER H	92	13.055	17.103	-6.715	1.00	0.21	C
ATOM	1278	O	SER H	92	14.722	14.265	-5.854	1.00	0.21	O
ATOM	1279	OG	SER H	92	12.668	17.185	-5.355	1.00	0.21	O
ATOM	1281	N	SER H	93	15.679	15.566	-7.437	1.00	0.32	N
ATOM	1283	CA	SER H	93	17.080	15.187	-7.192	1.00	0.32	C
ATOM	1285	C	SER H	93	17.251	13.665	-7.154	1.00	0.32	C
ATOM	1286	CB	SER H	93	17.615	15.870	-5.927	1.00	0.32	C
ATOM	1289	O	SER H	93	17.639	13.088	-6.135	1.00	0.32	O
ATOM	1290	OG	SER H	93	17.441	17.273	-6.020	1.00	0.32	O
ATOM	1292	N	LEU H	94	16.820	13.004	-8.229	1.00	0.26	N
ATOM	1294	CA	LEU H	94	16.636	11.555	-8.275	1.00	0.26	C
ATOM	1296	C	LEU H	94	17.951	10.768	-8.194	1.00	0.26	C
ATOM	1297	CB	LEU H	94	15.809	11.179	-9.512	1.00	0.26	C
ATOM	1300	O	LEU H	94	19.000	11.183	-8.683	1.00	0.26	O
ATOM	1301	CG	LEU H	94	14.370	11.724	-9.457	1.00	0.26	C
ATOM	1303	CD1	LEU H	94	13.692	11.486	-10.796	1.00	0.26	C
ATOM	1307	CD2	LEU H	94	13.521	11.035	-8.389	1.00	0.26	C
ATOM	1311	N	THR H	95	17.866	9.597	-7.583	1.00	0.28	N
ATOM	1313	CA	THR H	95	18.957	8.683	-7.241	1.00	0.28	C
ATOM	1315	C	THR H	95	18.537	7.254	-7.575	1.00	0.28	C
ATOM	1316	CB	THR H	95	19.319	8.778	-5.746	1.00	0.28	C
ATOM	1318	O	THR H	95	17.362	6.983	-7.815	1.00	0.28	O
ATOM	1319	CG2	THR H	95	19.684	10.189	-5.284	1.00	0.28	C
ATOM	1323	OG1	THR H	95	18.272	8.298	-4.934	1.00	0.28	O
ATOM	1325	N	SER H	96	19.476	6.309	-7.571	1.00	0.33	N
ATOM	1327	CA	SER H	96	19.143	4.893	-7.767	1.00	0.33	C
ATOM	1329	C	SER H	96	18.183	4.361	-6.691	1.00	0.33	C
ATOM	1330	CB	SER H	96	20.424	4.057	-7.798	1.00	0.33	C
ATOM	1333	O	SER H	96	17.371	3.497	-7.001	1.00	0.33	O
ATOM	1334	OG	SER H	96	21.221	4.339	-6.660	1.00	0.33	O
ATOM	1336	N	GLU H	97	18.203	4.918	-5.473	1.00	0.34	N
ATOM	1338	CA	GLU H	97	17.293	4.569	-4.365	1.00	0.34	C
ATOM	1340	C	GLU H	97	15.826	4.886	-4.703	1.00	0.34	C

ATOM	1341	CB	GLU H	97	17.753	5.324	-3.096	1.00	0.34	C
ATOM	1344	O	GLU H	97	14.904	4.175	-4.301	1.00	0.34	O
ATOM	1345	CG	GLU H	97	17.571	4.554	-1.774	1.00	0.34	C
ATOM	1348	CD	GLU H	97	16.222	4.729	-1.056	1.00	0.34	C
ATOM	1349	OE1	GLU H	97	16.093	4.184	0.066	1.00	0.34	O
ATOM	1350	OE2	GLU H	97	15.278	5.326	-1.617	1.00	0.34	O
ATOM	1351	N	ASP H	98	15.603	5.924	-5.515	1.00	0.25	N
ATOM	1353	CA	ASP H	98	14.284	6.294	-6.027	1.00	0.25	C
ATOM	1355	C	ASP H	98	13.741	5.338	-7.110	1.00	0.25	C
ATOM	1356	CB	ASP H	98	14.307	7.737	-6.549	1.00	0.25	C
ATOM	1359	O	ASP H	98	12.577	5.478	-7.492	1.00	0.25	O
ATOM	1360	CG	ASP H	98	14.826	8.746	-5.530	1.00	0.25	C
ATOM	1361	OD1	ASP H	98	14.117	9.073	-4.560	1.00	0.25	O
ATOM	1362	OD2	ASP H	98	15.911	9.330	-5.754	1.00	0.25	O
ATOM	1363	N	THR H	99	14.529	4.369	-7.601	1.00	0.23	N
ATOM	1365	CA	THR H	99	14.063	3.360	-8.572	1.00	0.23	C
ATOM	1367	C	THR H	99	13.085	2.387	-7.915	1.00	0.23	C
ATOM	1368	CB	THR H	99	15.230	2.589	-9.204	1.00	0.23	C
ATOM	1370	O	THR H	99	13.476	1.554	-7.098	1.00	0.23	O
ATOM	1371	CG2	THR H	99	14.807	1.472	-10.160	1.00	0.23	C
ATOM	1375	OG1	THR H	99	16.017	3.494	-9.944	1.00	0.23	O
ATOM	1377	N	ALA H	100	11.802	2.493	-8.259	1.00	0.18	N
ATOM	1379	CA	ALA H	100	10.718	1.773	-7.594	1.00	0.18	C
ATOM	1381	C	ALA H	100	9.422	1.806	-8.419	1.00	0.18	C
ATOM	1382	CB	ALA H	100	10.497	2.421	-6.219	1.00	0.18	C
ATOM	1386	O	ALA H	100	9.284	2.575	-9.372	1.00	0.18	O
ATOM	1387	N	VAL H	101	8.440	0.995	-8.027	1.00	0.19	N
ATOM	1389	CA	VAL H	101	7.037	1.207	-8.403	1.00	0.19	C
ATOM	1391	C	VAL H	101	6.416	2.210	-7.434	1.00	0.19	C
ATOM	1392	CB	VAL H	101	6.241	-0.112	-8.415	1.00	0.19	C
ATOM	1394	O	VAL H	101	6.586	2.098	-6.224	1.00	0.19	O
ATOM	1395	CG1	VAL H	101	4.774	0.118	-8.807	1.00	0.19	C
ATOM	1399	CG2	VAL H	101	6.832	-1.103	-9.427	1.00	0.19	C
ATOM	1403	N	TYR H	102	5.678	3.184	-7.953	1.00	0.09	N
ATOM	1405	CA	TYR H	102	4.937	4.163	-7.160	1.00	0.09	C
ATOM	1407	C	TYR H	102	3.441	3.974	-7.382	1.00	0.09	C
ATOM	1408	CB	TYR H	102	5.396	5.571	-7.552	1.00	0.09	C
ATOM	1411	O	TYR H	102	2.964	4.122	-8.507	1.00	0.09	O
ATOM	1412	CG	TYR H	102	6.821	5.866	-7.129	1.00	0.09	C
ATOM	1413	CD1	TYR H	102	7.907	5.452	-7.925	1.00	0.09	C
ATOM	1415	CD2	TYR H	102	7.056	6.499	-5.896	1.00	0.09	C
ATOM	1417	CE1	TYR H	102	9.223	5.657	-7.472	1.00	0.09	C
ATOM	1419	CE2	TYR H	102	8.373	6.720	-5.449	1.00	0.09	C

ATOM	1421	OH	TYR H	102	10.733	6.459	-5.796	1.00	0.09	O
ATOM	1423	CZ	TYR H	102	9.461	6.292	-6.237	1.00	0.09	C
ATOM	1424	N	TYR H	103	2.698	3.662	-6.325	1.00	0.11	N
ATOM	1426	CA	TYR H	103	1.237	3.608	-6.331	1.00	0.11	C
ATOM	1428	C	TYR H	103	0.647	4.914	-5.811	1.00	0.11	C
ATOM	1429	CB	TYR H	103	0.728	2.448	-5.470	1.00	0.11	C
ATOM	1432	O	TYR H	103	1.128	5.462	-4.817	1.00	0.11	O
ATOM	1433	CG	TYR H	103	1.293	1.100	-5.852	1.00	0.11	C
ATOM	1434	CD1	TYR H	103	0.776	0.406	-6.963	1.00	0.11	C
ATOM	1436	CD2	TYR H	103	2.352	0.553	-5.105	1.00	0.11	C
ATOM	1438	CE1	TYR H	103	1.339	-0.825	-7.350	1.00	0.11	C
ATOM	1440	CE2	TYR H	103	2.895	-0.688	-5.473	1.00	0.11	C
ATOM	1442	OH	TYR H	103	2.968	-2.547	-6.978	1.00	0.11	O
ATOM	1444	CZ	TYR H	103	2.403	-1.373	-6.604	1.00	0.11	C
ATOM	1445	N	CYS H	104	-0.438	5.371	-6.423	1.00	0.09	N
ATOM	1447	CA	CYS H	104	-1.417	6.187	-5.718	1.00	0.09	C
ATOM	1449	C	CYS H	104	-2.476	5.283	-5.078	1.00	0.09	C
ATOM	1450	CB	CYS H	104	-2.045	7.199	-6.671	1.00	0.09	C
ATOM	1453	O	CYS H	104	-2.795	4.215	-5.609	1.00	0.09	O
ATOM	1454	SG	CYS H	104	-3.011	6.482	-8.019	1.00	0.09	S
ATOM	1455	N	ALA H	105	-3.049	5.725	-3.962	1.00	0.17	N
ATOM	1457	CA	ALA H	105	-4.167	5.040	-3.335	1.00	0.17	C
ATOM	1459	C	ALA H	105	-5.141	6.021	-2.682	1.00	0.17	C
ATOM	1460	CB	ALA H	105	-3.650	3.979	-2.359	1.00	0.17	C
ATOM	1464	O	ALA H	105	-4.751	7.047	-2.118	1.00	0.17	O
ATOM	1465	N	ARG H	106	-6.424	5.692	-2.773	1.00	0.23	N
ATOM	1467	CA	ARG H	106	-7.513	6.378	-2.094	1.00	0.23	C
ATOM	1469	C	ARG H	106	-7.608	5.889	-0.655	1.00	0.23	C
ATOM	1470	CB	ARG H	106	-8.820	6.082	-2.839	1.00	0.23	C
ATOM	1473	O	ARG H	106	-7.333	4.729	-0.356	1.00	0.23	O
ATOM	1474	CG	ARG H	106	-9.920	7.094	-2.502	1.00	0.23	C
ATOM	1477	CD	ARG H	106	-11.297	6.551	-2.869	1.00	0.23	C
ATOM	1480	NE	ARG H	106	-11.877	5.715	-1.797	1.00	0.23	N
ATOM	1482	NH1	ARG H	106	-14.085	6.306	-2.042	1.00	0.23	N
ATOM	1485	NH2	ARG H	106	-13.503	4.957	-0.392	1.00	0.23	N
ATOM	1488	CZ	ARG H	106	-13.141	5.659	-1.419	1.00	0.23	C
ATOM	1489	N	GLY H	107	-8.071	6.766	0.218	1.00	0.43	N
ATOM	1491	CA	GLY H	107	-8.625	6.386	1.504	1.00	0.43	C
ATOM	1494	C	GLY H	107	-9.190	7.598	2.229	1.00	0.43	C
ATOM	1495	O	GLY H	107	-9.161	8.726	1.737	1.00	0.43	O
ATOM	1496	N	VAL H	108	-9.683	7.366	3.438	1.00	1.45	N
ATOM	1498	CA	VAL H	108	-9.994	8.429	4.410	1.00	1.45	C
ATOM	1500	C	VAL H	108	-9.567	7.976	5.800	1.00	1.45	C

ATOM	1501	CB	VAL H	108	-11.491	8.817	4.392	1.00	1.45	C
ATOM	1503	O	VAL H	108	-8.801	8.658	6.474	1.00	1.45	O
ATOM	1504	CG1	VAL H	108	-11.840	9.819	5.502	1.00	1.45	C
ATOM	1508	CG2	VAL H	108	-11.903	9.456	3.064	1.00	1.45	C
ATOM	1512	N	PHE H	109	-10.027	6.790	6.204	1.00	0.81	N
ATOM	1514	CA	PHE H	109	-9.848	6.234	7.551	1.00	0.81	C
ATOM	1516	C	PHE H	109	-8.430	5.731	7.862	1.00	0.81	C
ATOM	1517	CB	PHE H	109	-10.868	5.101	7.735	1.00	0.81	C
ATOM	1520	O	PHE H	109	-8.142	5.397	9.008	1.00	0.81	O
ATOM	1521	CG	PHE H	109	-12.274	5.462	7.290	1.00	0.81	C
ATOM	1522	CD1	PHE H	109	-13.010	6.429	8.001	1.00	0.81	C
ATOM	1524	CD2	PHE H	109	-12.821	4.881	6.129	1.00	0.81	C
ATOM	1526	CE1	PHE H	109	-14.287	6.814	7.553	1.00	0.81	C
ATOM	1528	CE2	PHE H	109	-14.098	5.264	5.684	1.00	0.81	C
ATOM	1530	CZ	PHE H	109	-14.830	6.232	6.394	1.00	0.81	C
ATOM	1532	N	GLY H	113	-7.557	5.667	6.855	1.00	0.55	N
ATOM	1534	CA	GLY H	113	-6.133	5.363	6.994	1.00	0.55	C
ATOM	1537	C	GLY H	113	-5.705	3.985	6.479	1.00	0.55	C
ATOM	1538	O	GLY H	113	-4.517	3.787	6.225	1.00	0.55	O
ATOM	1539	N	PHE H	114	-6.643	3.065	6.245	1.00	0.39	N
ATOM	1541	CA	PHE H	114	-6.446	2.000	5.259	1.00	0.39	C
ATOM	1543	C	PHE H	114	-6.695	2.542	3.842	1.00	0.39	C
ATOM	1544	CB	PHE H	114	-7.327	0.790	5.593	1.00	0.39	C
ATOM	1547	O	PHE H	114	-7.360	3.570	3.670	1.00	0.39	O
ATOM	1548	CG	PHE H	114	-8.817	1.059	5.692	1.00	0.39	C
ATOM	1549	CD1	PHE H	114	-9.631	0.978	4.548	1.00	0.39	C
ATOM	1551	CD2	PHE H	114	-9.399	1.336	6.944	1.00	0.39	C
ATOM	1553	CE1	PHE H	114	-11.023	1.132	4.661	1.00	0.39	C
ATOM	1555	CE2	PHE H	114	-10.792	1.486	7.058	1.00	0.39	C
ATOM	1557	CZ	PHE H	114	-11.605	1.373	5.917	1.00	0.39	C
ATOM	1559	N	PHE H	115	-6.133	1.867	2.841	1.00	0.21	N
ATOM	1561	CA	PHE H	115	-6.115	2.314	1.450	1.00	0.21	C
ATOM	1563	C	PHE H	115	-6.998	1.393	0.605	1.00	0.21	C
ATOM	1564	CB	PHE H	115	-4.659	2.395	0.968	1.00	0.21	C
ATOM	1567	O	PHE H	115	-6.628	0.258	0.305	1.00	0.21	O
ATOM	1568	CG	PHE H	115	-3.697	3.110	1.909	1.00	0.21	C
ATOM	1569	CD1	PHE H	115	-4.086	4.280	2.592	1.00	0.21	C
ATOM	1571	CD2	PHE H	115	-2.431	2.552	2.165	1.00	0.21	C
ATOM	1573	CE1	PHE H	115	-3.242	4.842	3.564	1.00	0.21	C
ATOM	1575	CE2	PHE H	115	-1.571	3.139	3.110	1.00	0.21	C
ATOM	1577	CZ	PHE H	115	-1.982	4.276	3.820	1.00	0.21	C
ATOM	1579	N	ASP H	116	-8.208	1.853	0.300	1.00	0.31	N
ATOM	1581	CA	ASP H	116	-9.301	1.009	-0.197	1.00	0.31	C

ATOM	1583	C	ASP H 116	-9.275	0.798	-1.721	1.00	0.31		C
ATOM	1584	CB	ASP H 116	-10.646	1.559	0.315	1.00	0.31		C
ATOM	1587	O	ASP H 116	-9.630	-0.282	-2.190	1.00	0.31		O
ATOM	1588	CG	ASP H 116	-10.832	3.079	0.208	1.00	0.31		C
ATOM	1589	OD1	ASP H 116	-10.286	3.724	-0.713	1.00	0.31		O
ATOM	1590	OD2	ASP H 116	-11.599	3.650	1.012	1.00	0.31		O
ATOM	1591	N	TYR H 117	-8.782	1.773	-2.492	1.00	0.30		N
ATOM	1593	CA	TYR H 117	-8.592	1.665	-3.945	1.00	0.30		C
ATOM	1595	C	TYR H 117	-7.190	2.116	-4.350	1.00	0.30		C
ATOM	1596	CB	TYR H 117	-9.660	2.471	-4.700	1.00	0.30		C
ATOM	1599	O	TYR H 117	-6.763	3.208	-3.988	1.00	0.30		O
ATOM	1600	CG	TYR H 117	-11.064	1.910	-4.571	1.00	0.30		C
ATOM	1601	CD1	TYR H 117	-11.543	0.985	-5.519	1.00	0.30		C
ATOM	1603	CD2	TYR H 117	-11.879	2.290	-3.487	1.00	0.30		C
ATOM	1605	CE1	TYR H 117	-12.828	0.429	-5.374	1.00	0.30		C
ATOM	1607	CE2	TYR H 117	-13.163	1.734	-3.335	1.00	0.30		C
ATOM	1609	OH	TYR H 117	-14.871	0.250	-4.137	1.00	0.30		O
ATOM	1611	CZ	TYR H 117	-13.637	0.799	-4.280	1.00	0.30		C
ATOM	1612	N	TRP H 118	-6.492	1.294	-5.131	1.00	0.17		N
ATOM	1614	CA	TRP H 118	-5.121	1.539	-5.589	1.00	0.17		C
ATOM	1616	C	TRP H 118	-5.089	1.764	-7.103	1.00	0.17		C
ATOM	1617	CB	TRP H 118	-4.220	0.365	-5.177	1.00	0.17		C
ATOM	1620	O	TRP H 118	-5.898	1.196	-7.837	1.00	0.17		O
ATOM	1621	CG	TRP H 118	-3.996	0.189	-3.701	1.00	0.17		C
ATOM	1622	CD1	TRP H 118	-4.950	-0.051	-2.772	1.00	0.17		C
ATOM	1624	CD2	TRP H 118	-2.733	0.206	-2.963	1.00	0.17		C
ATOM	1625	CE2	TRP H 118	-3.005	-0.047	-1.585	1.00	0.17		C
ATOM	1626	CE3	TRP H 118	-1.381	0.386	-3.325	1.00	0.17		C
ATOM	1628	NE1	TRP H 118	-4.378	-0.147	-1.523	1.00	0.17		N
ATOM	1630	CH2	TRP H 118	-0.649	0.020	-1.025	1.00	0.17		C
ATOM	1632	CZ2	TRP H 118	-1.987	-0.148	-0.624	1.00	0.17		C
ATOM	1634	CZ3	TRP H 118	-0.350	0.299	-2.370	1.00	0.17		C
ATOM	1636	N	GLY H 119	-4.154	2.590	-7.573	1.00	0.14		N
ATOM	1638	CA	GLY H 119	-3.785	2.643	-8.988	1.00	0.14		C
ATOM	1641	C	GLY H 119	-2.919	1.449	-9.382	1.00	0.14		C
ATOM	1642	O	GLY H 119	-2.389	0.745	-8.523	1.00	0.14		O
ATOM	1643	N	GLN H 120	-2.739	1.217	-10.684	1.00	0.14		N
ATOM	1645	CA	GLN H 120	-1.973	0.067	-11.183	1.00	0.14		C
ATOM	1647	C	GLN H 120	-0.464	0.134	-10.879	1.00	0.14		C
ATOM	1648	CB	GLN H 120	-2.259	-0.151	-12.683	1.00	0.14		C
ATOM	1651	O	GLN H 120	0.249	-0.840	-11.109	1.00	0.14		O
ATOM	1652	CG	GLN H 120	-1.419	0.661	-13.690	1.00	0.14		C
ATOM	1655	CD	GLN H 120	-1.741	2.150	-13.798	1.00	0.14		C

ATOM	1656	NE2	GLN	H	120	-1.061	2.848	-14.682	1.00	0.14	N
ATOM	1659	OE1	GLN	H	120	-2.610	2.705	-13.138	1.00	0.14	O
ATOM	1660	N	GLY	H	121	0.019	1.269	-10.367	1.00	0.08	N
ATOM	1662	CA	GLY	H	121	1.433	1.548	-10.163	1.00	0.08	C
ATOM	1665	C	GLY	H	121	2.097	2.173	-11.389	1.00	0.08	C
ATOM	1666	O	GLY	H	121	1.694	1.964	-12.534	1.00	0.08	O
ATOM	1667	N	THR	H	122	3.147	2.948	-11.133	1.00	0.12	N
ATOM	1669	CA	THR	H	122	4.013	3.542	-12.151	1.00	0.12	C
ATOM	1671	C	THR	H	122	5.456	3.191	-11.812	1.00	0.12	C
ATOM	1672	CB	THR	H	122	3.821	5.066	-12.221	1.00	0.12	C
ATOM	1674	O	THR	H	122	5.972	3.623	-10.782	1.00	0.12	O
ATOM	1675	CG2	THR	H	122	4.730	5.697	-13.268	1.00	0.12	C
ATOM	1679	OG1	THR	H	122	2.493	5.414	-12.555	1.00	0.12	O
ATOM	1681	N	THR	H	123	6.107	2.382	-12.649	1.00	0.11	N
ATOM	1683	CA	THR	H	123	7.537	2.075	-12.511	1.00	0.11	C
ATOM	1685	C	THR	H	123	8.366	3.298	-12.883	1.00	0.11	C
ATOM	1686	CB	THR	H	123	7.941	0.898	-13.410	1.00	0.11	C
ATOM	1688	O	THR	H	123	8.205	3.834	-13.977	1.00	0.11	O
ATOM	1689	CG2	THR	H	123	9.383	0.444	-13.188	1.00	0.11	C
ATOM	1693	OG1	THR	H	123	7.113	-0.211	-13.154	1.00	0.11	O
ATOM	1695	N	LEU	H	124	9.262	3.713	-11.995	1.00	0.13	N
ATOM	1697	CA	LEU	H	124	10.267	4.743	-12.229	1.00	0.13	C
ATOM	1699	C	LEU	H	124	11.649	4.090	-12.214	1.00	0.13	C
ATOM	1700	CB	LEU	H	124	10.125	5.800	-11.121	1.00	0.13	C
ATOM	1703	O	LEU	H	124	12.035	3.502	-11.204	1.00	0.13	O
ATOM	1704	CG	LEU	H	124	11.168	6.930	-11.152	1.00	0.13	C
ATOM	1706	CD1	LEU	H	124	11.005	7.779	-12.409	1.00	0.13	C
ATOM	1710	CD2	LEU	H	124	10.998	7.830	-9.927	1.00	0.13	C
ATOM	1714	N	THR	H	125	12.392	4.205	-13.311	1.00	0.28	N
ATOM	1716	CA	THR	H	125	13.782	3.738	-13.409	1.00	0.28	C
ATOM	1718	C	THR	H	125	14.725	4.932	-13.438	1.00	0.28	C
ATOM	1719	CB	THR	H	125	13.979	2.877	-14.663	1.00	0.28	C
ATOM	1721	O	THR	H	125	14.596	5.786	-14.315	1.00	0.28	O
ATOM	1722	CG2	THR	H	125	15.383	2.278	-14.751	1.00	0.28	C
ATOM	1726	OG1	THR	H	125	13.061	1.811	-14.655	1.00	0.28	O
ATOM	1728	N	VAL	H	126	15.682	4.997	-12.508	1.00	0.27	N
ATOM	1730	CA	VAL	H	126	16.688	6.067	-12.470	1.00	0.27	C
ATOM	1732	C	VAL	H	126	18.032	5.537	-12.969	1.00	0.27	C
ATOM	1733	CB	VAL	H	126	16.791	6.718	-11.078	1.00	0.27	C
ATOM	1735	O	VAL	H	126	18.714	4.796	-12.265	1.00	0.27	O
ATOM	1736	CG1	VAL	H	126	17.721	7.938	-11.140	1.00	0.27	C
ATOM	1740	CG2	VAL	H	126	15.417	7.188	-10.578	1.00	0.27	C
ATOM	1744	N	SER	H	127	18.421	5.926	-14.185	1.00	0.29	N

ATOM	1746	CA	SER H	127	19.652	5.475	-14.853	1.00	0.29	C
ATOM	1748	C	SER H	127	20.272	6.582	-15.696	1.00	0.29	C
ATOM	1749	CB	SER H	127	19.378	4.277	-15.770	1.00	0.29	C
ATOM	1752	O	SER H	127	19.559	7.309	-16.395	1.00	0.29	O
ATOM	1753	OG	SER H	127	20.553	3.890	-16.471	1.00	0.29	O
ATOM	1755	N	SER H	128	21.608	6.652	-15.705	1.00	0.28	N
ATOM	1757	CA	SER H	128	22.380	7.369	-16.736	1.00	0.28	C
ATOM	1759	C	SER H	128	22.038	6.888	-18.141	1.00	0.28	C
ATOM	1760	CB	SER H	128	23.877	7.238	-16.468	1.00	0.28	C
ATOM	1763	O	SER H	128	22.137	7.730	-19.055	1.00	0.28	O
ATOM	1764	OG	SER H	128	24.200	5.867	-16.358	1.00	0.28	O
ATOM	1766	OXT	SER H	128	21.457	5.787	-18.273	1.00	0.28	O
TER	1767		SER H	128						
ATOM	1768	N	ASP L	1	7.372	6.187	15.281	1.00	0.49	N
ATOM	1772	CA	ASP L	1	6.909	5.429	14.102	1.00	0.49	C
ATOM	1774	C	ASP L	1	6.722	3.997	14.521	1.00	0.49	C
ATOM	1775	CB	ASP L	1	7.860	5.462	12.882	1.00	0.49	C
ATOM	1778	O	ASP L	1	7.633	3.430	15.120	1.00	0.49	O
ATOM	1779	CG	ASP L	1	8.346	6.851	12.464	1.00	0.49	C
ATOM	1780	OD1	ASP L	1	8.101	7.790	13.253	1.00	0.49	O
ATOM	1781	OD2	ASP L	1	8.966	6.946	11.380	1.00	0.49	O
ATOM	1782	N	ILE L	2	5.580	3.422	14.171	1.00	0.38	N
ATOM	1784	CA	ILE L	2	5.244	2.041	14.500	1.00	0.38	C
ATOM	1786	C	ILE L	2	5.959	1.108	13.516	1.00	0.38	C
ATOM	1787	CB	ILE L	2	3.713	1.840	14.436	1.00	0.38	C
ATOM	1789	O	ILE L	2	5.850	1.304	12.307	1.00	0.38	O
ATOM	1790	CG1	ILE L	2	2.933	3.088	14.928	1.00	0.38	C
ATOM	1793	CG2	ILE L	2	3.353	0.527	15.156	1.00	0.38	C
ATOM	1797	CD1	ILE L	2	1.480	2.861	15.326	1.00	0.38	C
ATOM	1801	N	GLN L	3	6.671	0.083	13.978	1.00	0.33	N
ATOM	1803	CA	GLN L	3	7.188	-0.980	13.105	1.00	0.33	C
ATOM	1805	C	GLN L	3	6.201	-2.145	13.099	1.00	0.33	C
ATOM	1806	CB	GLN L	3	8.591	-1.467	13.509	1.00	0.33	C
ATOM	1809	O	GLN L	3	5.745	-2.573	14.159	1.00	0.33	O
ATOM	1810	CG	GLN L	3	9.696	-0.400	13.434	1.00	0.33	C
ATOM	1813	CD	GLN L	3	9.577	0.659	14.524	1.00	0.33	C
ATOM	1814	NE2	GLN L	3	9.773	1.912	14.197	1.00	0.33	N
ATOM	1817	OE1	GLN L	3	9.262	0.383	15.672	1.00	0.33	O
ATOM	1818	N	MET L	4	5.894	-2.661	11.909	1.00	0.23	N
ATOM	1820	CA	MET L	4	4.907	-3.722	11.699	1.00	0.23	C
ATOM	1822	C	MET L	4	5.576	-5.048	11.320	1.00	0.23	C
ATOM	1823	CB	MET L	4	3.875	-3.255	10.662	1.00	0.23	C
ATOM	1826	O	MET L	4	5.553	-5.492	10.176	1.00	0.23	O

ATOM	1827	CG	MET	L	4	3.100	-2.005	11.103	1.00	0.23	C
ATOM	1830	SD	MET	L	4	2.342	-2.090	12.752	1.00	0.23	S
ATOM	1831	CE	MET	L	4	1.391	-3.619	12.586	1.00	0.23	C
ATOM	1835	N	THR	L	5	6.210	-5.705	12.282	1.00	0.26	N
ATOM	1837	CA	THR	L	5	6.998	-6.919	12.040	1.00	0.26	C
ATOM	1839	C	THR	L	5	6.120	-8.100	11.616	1.00	0.26	C
ATOM	1840	CB	THR	L	5	7.815	-7.273	13.290	1.00	0.26	C
ATOM	1842	O	THR	L	5	5.414	-8.684	12.440	1.00	0.26	O
ATOM	1843	CG2	THR	L	5	8.687	-8.518	13.114	1.00	0.26	C
ATOM	1847	OG1	THR	L	5	8.691	-6.209	13.580	1.00	0.26	O
ATOM	1849	N	GLN	L	6	6.204	-8.499	10.345	1.00	0.33	N
ATOM	1851	CA	GLN	L	6	5.755	-9.816	9.884	1.00	0.33	C
ATOM	1853	C	GLN	L	6	6.887	-10.823	10.085	1.00	0.33	C
ATOM	1854	CB	GLN	L	6	5.277	-9.765	8.426	1.00	0.33	C
ATOM	1857	O	GLN	L	6	7.933	-10.743	9.450	1.00	0.33	O
ATOM	1858	CG	GLN	L	6	3.968	-8.973	8.348	1.00	0.33	C
ATOM	1861	CD	GLN	L	6	3.396	-8.888	6.943	1.00	0.33	C
ATOM	1862	NE2	GLN	L	6	3.076	-9.989	6.307	1.00	0.33	N
ATOM	1865	OE1	GLN	L	6	3.237	-7.810	6.391	1.00	0.33	O
ATOM	1866	N	SER	L	7	6.698	-11.757	11.014	1.00	0.41	N
ATOM	1868	CA	SER	L	7	7.727	-12.700	11.483	1.00	0.41	C
ATOM	1870	C	SER	L	7	7.962	-13.898	10.546	1.00	0.41	C
ATOM	1871	CB	SER	L	7	7.354	-13.157	12.897	1.00	0.41	C
ATOM	1874	O	SER	L	7	8.351	-14.971	10.999	1.00	0.41	O
ATOM	1875	OG	SER	L	7	6.082	-13.782	12.889	1.00	0.41	O
ATOM	1877	N	SER	L	8	7.660	-13.754	9.257	1.00	0.45	N
ATOM	1879	CA	SER	L	8	7.814	-14.776	8.214	1.00	0.45	C
ATOM	1881	C	SER	L	8	7.791	-14.083	6.852	1.00	0.45	C
ATOM	1882	CB	SER	L	8	6.695	-15.826	8.312	1.00	0.45	C
ATOM	1885	O	SER	L	8	6.841	-13.372	6.533	1.00	0.45	O
ATOM	1886	OG	SER	L	8	5.420	-15.214	8.386	1.00	0.45	O
ATOM	1888	N	SER	L	9	8.849	-14.242	6.056	1.00	0.44	N
ATOM	1890	CA	SER	L	9	8.933	-13.645	4.712	1.00	0.44	C
ATOM	1892	C	SER	L	9	8.220	-14.495	3.660	1.00	0.44	C
ATOM	1893	CB	SER	L	9	10.402	-13.475	4.324	1.00	0.44	C
ATOM	1896	O	SER	L	9	7.665	-13.971	2.694	1.00	0.44	O
ATOM	1897	OG	SER	L	9	11.078	-14.721	4.375	1.00	0.44	O
ATOM	1899	N	SER	L	10	8.195	-15.810	3.863	1.00	0.42	N
ATOM	1901	CA	SER	L	10	7.509	-16.774	3.011	1.00	0.42	C
ATOM	1903	C	SER	L	10	7.076	-18.000	3.821	1.00	0.42	C
ATOM	1904	CB	SER	L	10	8.392	-17.168	1.819	1.00	0.42	C
ATOM	1907	O	SER	L	10	7.649	-18.293	4.872	1.00	0.42	O
ATOM	1908	OG	SER	L	10	9.618	-17.713	2.265	1.00	0.42	O

ATOM	1910	N	PHE	L	11	6.057	-18.702	3.330	1.00	0.42		N
ATOM	1912	CA	PHE	L	11	5.549	-19.963	3.868	1.00	0.42		C
ATOM	1914	C	PHE	L	11	5.155	-20.902	2.721	1.00	0.42		C
ATOM	1915	CB	PHE	L	11	4.308	-19.717	4.748	1.00	0.42		C
ATOM	1918	O	PHE	L	11	4.337	-20.527	1.885	1.00	0.42		O
ATOM	1919	CG	PHE	L	11	4.498	-19.168	6.151	1.00	0.42		C
ATOM	1920	CD1	PHE	L	11	5.527	-19.641	6.991	1.00	0.42		C
ATOM	1922	CD2	PHE	L	11	3.541	-18.274	6.670	1.00	0.42		C
ATOM	1924	CE1	PHE	L	11	5.596	-19.228	8.333	1.00	0.42		C
ATOM	1926	CE2	PHE	L	11	3.608	-17.863	8.012	1.00	0.42		C
ATOM	1928	CZ	PHE	L	11	4.629	-18.346	8.847	1.00	0.42		C
ATOM	1930	N	SER	L	12	5.681	-22.130	2.710	1.00	0.61		N
ATOM	1932	CA	SER	L	12	5.237	-23.213	1.815	1.00	0.61		C
ATOM	1934	C	SER	L	12	4.070	-23.986	2.432	1.00	0.61		C
ATOM	1935	CB	SER	L	12	6.386	-24.183	1.519	1.00	0.61		C
ATOM	1938	O	SER	L	12	4.196	-24.511	3.539	1.00	0.61		O
ATOM	1939	OG	SER	L	12	7.502	-23.491	0.993	1.00	0.61		O
ATOM	1941	N	VALL	13		2.947	-24.072	1.720	1.00	0.44		N
ATOM	1943	CA	VALL	13		1.650	-24.565	2.215	1.00	0.44		C
ATOM	1945	C	VALL	13		0.870	-25.260	1.094	1.00	0.44		C
ATOM	1946	CB	VALL	13		0.822	-23.411	2.823	1.00	0.44		C
ATOM	1948	O	VALL	13		0.778	-24.749	-0.014	1.00	0.44		O
ATOM	1949	CG1	VAL	L	13	1.274	-23.129	4.262	1.00	0.44		C
ATOM	1953	CG2	VAL	L	13	0.909	-22.088	2.043	1.00	0.44		C
ATOM	1957	N	SER	L	14	0.296	-26.432	1.357	1.00	0.38		N
ATOM	1959	CA	SER	L	14	-0.461	-27.193	0.351	1.00	0.38		C
ATOM	1961	C	SER	L	14	-1.884	-26.658	0.196	1.00	0.38		C
ATOM	1962	CB	SER	L	14	-0.456	-28.713	0.607	1.00	0.38		C
ATOM	1965	O	SER	L	14	-2.432	-26.006	1.087	1.00	0.38		O
ATOM	1966	OG	SER	L	14	-0.612	-29.090	1.963	1.00	0.38		O
ATOM	1968	N	LEUL	15		-2.508	-26.957	-0.944	1.00	0.28		N
ATOM	1970	CA	LEUL	15		-3.920	-26.653	-1.176	1.00	0.28		C
ATOM	1972	C	LEUL	15		-4.800	-27.334	-0.118	1.00	0.28		C
ATOM	1973	CB	LEUL	15		-4.331	-27.069	-2.599	1.00	0.28		C
ATOM	1976	O	LEUL	15		-4.641	-28.520	0.166	1.00	0.28		O
ATOM	1977	CG	LEUL	15		-3.551	-26.359	-3.719	1.00	0.28		C
ATOM	1979	CD1	LEUL	15		-3.968	-26.927	-5.076	1.00	0.28		C
ATOM	1983	CD2	LEUL	15		-3.816	-24.854	-3.722	1.00	0.28		C
ATOM	1987	N	GLY	L	16	-5.725	-26.572	0.465	1.00	0.21		N
ATOM	1989	CA	GLY	L	16	-6.547	-26.994	1.601	1.00	0.21		C
ATOM	1992	C	GLY	L	16	-5.947	-26.688	2.982	1.00	0.21		C
ATOM	1993	O	GLY	L	16	-6.679	-26.754	3.970	1.00	0.21		O
ATOM	1994	N	ASP	L	17	-4.669	-26.292	3.083	1.00	0.31		N

ATOM	1996	CA	ASP	L	17	-4.054	-25.913	4.364	1.00	0.31	C
ATOM	1998	C	ASP	L	17	-4.780	-24.733	5.038	1.00	0.31	C
ATOM	1999	CB	ASP	L	17	-2.551	-25.564	4.248	1.00	0.31	C
ATOM	2002	O	ASP	L	17	-5.385	-23.864	4.403	1.00	0.31	O
ATOM	2003	CG	ASP	L	17	-1.583	-26.732	4.024	1.00	0.31	C
ATOM	2004	OD1	ASP	L	17	-2.020	-27.884	3.829	1.00	0.31	O
ATOM	2005	OD2	ASP	L	17	-0.347	-26.510	4.097	1.00	0.31	O
ATOM	2006	N	ARG	L	18	-4.673	-24.681	6.371	1.00	0.30	N
ATOM	2008	CA	ARG	L	18	-5.238	-23.626	7.221	1.00	0.30	C
ATOM	2010	C	ARG	L	18	-4.154	-22.648	7.685	1.00	0.30	C
ATOM	2011	CB	ARG	L	18	-6.024	-24.290	8.360	1.00	0.30	C
ATOM	2014	O	ARG	L	18	-3.742	-22.670	8.846	1.00	0.30	O
ATOM	2015	CG	ARG	L	18	-6.818	-23.280	9.205	1.00	0.30	C
ATOM	2018	CD	ARG	L	18	-6.429	-23.363	10.689	1.00	0.30	C
ATOM	2021	NE	ARG	L	18	-6.763	-22.117	11.403	1.00	0.30	N
ATOM	2023	NH1	ARG	L	18	-4.950	-20.916	10.671	1.00	0.30	N
ATOM	2026	NH2	ARG	L	18	-6.439	-19.936	11.987	1.00	0.30	N
ATOM	2029	CZ	ARG	L	18	-6.050	-21.004	11.355	1.00	0.30	C
ATOM	2030	N	VAL	L	19	-3.690	-21.808	6.771	1.00	0.29	N
ATOM	2032	CA	VAL	L	19	-2.556	-20.889	6.948	1.00	0.29	C
ATOM	2034	C	VAL	L	19	-2.856	-19.775	7.958	1.00	0.29	C
ATOM	2035	CB	VAL	L	19	-2.136	-20.292	5.589	1.00	0.29	C
ATOM	2037	O	VAL	L	19	-3.991	-19.311	8.069	1.00	0.29	O
ATOM	2038	CG1	VAL	L	19	-0.744	-19.659	5.674	1.00	0.29	C
ATOM	2042	CG2	VAL	L	19	-2.119	-21.357	4.485	1.00	0.29	C
ATOM	2046	N	THR	L	20	-1.830	-19.305	8.669	1.00	0.25	N
ATOM	2048	CA	THR	L	20	-1.876	-18.071	9.465	1.00	0.25	C
ATOM	2050	C	THR	L	20	-0.628	-17.239	9.210	1.00	0.25	C
ATOM	2051	CB	THR	L	20	-2.065	-18.351	10.964	1.00	0.25	C
ATOM	2053	O	THR	L	20	0.484	-17.750	9.275	1.00	0.25	O
ATOM	2054	CG2	THR	L	20	-1.799	-17.145	11.857	1.00	0.25	C
ATOM	2058	OG1	THR	L	20	-3.414	-18.669	11.209	1.00	0.25	O
ATOM	2060	N	ILE	L	21	-0.830	-15.952	8.945	1.00	0.24	N
ATOM	2062	CA	ILE	L	21	0.208	-14.945	8.755	1.00	0.24	C
ATOM	2064	C	ILE	L	21	0.124	-13.967	9.924	1.00	0.24	C
ATOM	2065	CB	ILE	L	21	0.032	-14.248	7.390	1.00	0.24	C
ATOM	2067	O	ILE	L	21	-0.910	-13.332	10.139	1.00	0.24	O
ATOM	2068	CG1	ILE	L	21	0.134	-15.284	6.244	1.00	0.24	C
ATOM	2071	CG2	ILE	L	21	1.070	-13.123	7.241	1.00	0.24	C
ATOM	2075	CD1	ILE	L	21	-0.090	-14.688	4.854	1.00	0.24	C
ATOM	2079	N	THR	L	22	1.200	-13.861	10.696	1.00	0.27	N
ATOM	2081	CA	THR	L	22	1.286	-13.011	11.889	1.00	0.27	C
ATOM	2083	C	THR	L	22	1.948	-11.672	11.588	1.00	0.27	C

ATOM	2084	CB	THR L	22	2.042	-13.731	13.016	1.00	0.27	C
ATOM	2086	O	THR L	22	2.943	-11.595	10.868	1.00	0.27	O
ATOM	2087	CG2	THR L	22	1.207	-14.867	13.602	1.00	0.27	C
ATOM	2091	OG1	THR L	22	3.239	-14.312	12.541	1.00	0.27	O
ATOM	2093	N	CYS L	23	1.423	-10.617	12.203	1.00	0.21	N
ATOM	2095	CA	CYS L	23	1.960	-9.265	12.160	1.00	0.21	C
ATOM	2097	C	CYS L	23	1.951	-8.658	13.564	1.00	0.21	C
ATOM	2098	CB	CYS L	23	1.141	-8.433	11.174	1.00	0.21	C
ATOM	2101	O	CYS L	23	0.962	-8.778	14.291	1.00	0.21	O
ATOM	2102	SG	CYS L	23	1.597	-6.688	11.103	1.00	0.21	S
ATOM	2103	N	LYS L	24	3.053	-8.006	13.942	1.00	0.21	N
ATOM	2105	CA	LYS L	24	3.266	-7.469	15.287	1.00	0.21	C
ATOM	2107	C	LYS L	24	3.697	-6.007	15.248	1.00	0.21	C
ATOM	2108	CB	LYS L	24	4.275	-8.363	16.019	1.00	0.21	C
ATOM	2111	O	LYS L	24	4.750	-5.689	14.703	1.00	0.21	O
ATOM	2112	CG	LYS L	24	4.372	-8.034	17.516	1.00	0.21	C
ATOM	2115	CD	LYS L	24	5.353	-9.004	18.192	1.00	0.21	C
ATOM	2118	CE	LYS L	24	5.493	-8.763	19.700	1.00	0.21	C
ATOM	2121	NZ	LYS L	24	4.283	-9.193	20.436	1.00	0.21	N
ATOM	2125	N	ALA L	25	2.898	-5.135	15.850	1.00	0.22	N
ATOM	2127	CA	ALA L	25	3.219	-3.727	16.037	1.00	0.22	C
ATOM	2129	C	ALA L	25	4.198	-3.527	17.211	1.00	0.22	C
ATOM	2130	CB	ALA L	25	1.914	-2.961	16.260	1.00	0.22	C
ATOM	2134	O	ALA L	25	4.081	-4.189	18.246	1.00	0.22	O
ATOM	2135	N	THR L	26	5.161	-2.612	17.089	1.00	0.25	N
ATOM	2137	CA	THR L	26	6.069	-2.273	18.205	1.00	0.25	C
ATOM	2139	C	THR L	26	5.396	-1.435	19.289	1.00	0.25	C
ATOM	2140	CB	THR L	26	7.334	-1.557	17.722	1.00	0.25	C
ATOM	2142	O	THR L	26	5.571	-1.704	20.482	1.00	0.25	O
ATOM	2143	CG2	THR L	26	8.287	-2.567	17.088	1.00	0.25	C
ATOM	2147	OG1	THR L	26	7.029	-0.539	16.801	1.00	0.25	O
ATOM	2149	N	GLU L	27	4.580	-0.464	18.898	1.00	0.35	N
ATOM	2151	CA	GLU L	27	3.678	0.299	19.765	1.00	0.35	C
ATOM	2153	C	GLU L	27	2.219	-0.129	19.527	1.00	0.35	C
ATOM	2154	CB	GLU L	27	3.977	1.815	19.693	1.00	0.35	C
ATOM	2157	O	GLU L	27	1.925	-0.806	18.547	1.00	0.35	O
ATOM	2158	CG	GLU L	27	4.165	2.449	18.295	1.00	0.35	C
ATOM	2161	CD	GLU L	27	4.702	3.903	18.319	1.00	0.35	C
ATOM	2162	OE1	GLU L	27	5.295	4.356	17.302	1.00	0.35	O
ATOM	2163	OE2	GLU L	27	4.507	4.577	19.353	1.00	0.35	O
ATOM	2164	N	ASP L	28	1.325	0.131	20.486	1.00	0.38	N
ATOM	2166	CA	ASP L	28	-0.051	-0.372	20.407	1.00	0.38	C
ATOM	2168	C	ASP L	28	-0.864	0.387	19.354	1.00	0.38	C

ATOM	2169	CB	ASP L	28	-0.725	-0.337	21.782	1.00	0.38	C
ATOM	2172	O	ASP L	28	-0.808	1.618	19.302	1.00	0.38	O
ATOM	2173	CG	ASP L	28	-1.825	-1.391	21.815	1.00	0.38	C
ATOM	2174	OD1	ASP L	28	-2.808	-1.242	21.053	1.00	0.38	O
ATOM	2175	OD2	ASP L	28	-1.597	-2.402	22.516	1.00	0.38	O
ATOM	2176	N	ILE L	29	-1.599	-0.351	18.518	1.00	0.31	N
ATOM	2178	CA	ILE L	29	-2.353	0.202	17.384	1.00	0.31	C
ATOM	2180	C	ILE L	29	-3.863	0.044	17.514	1.00	0.31	C
ATOM	2181	CB	ILE L	29	-1.835	-0.332	16.032	1.00	0.31	C
ATOM	2183	O	ILE L	29	-4.577	0.417	16.585	1.00	0.31	O
ATOM	2184	CG1	ILE L	29	-2.088	-1.838	15.852	1.00	0.31	C
ATOM	2187	CG2	ILE L	29	-0.359	0.027	15.887	1.00	0.31	C
ATOM	2191	CD1	ILE L	29	-1.732	-2.328	14.449	1.00	0.31	C
ATOM	2195	N	TYR L	36	-4.375	-0.490	18.629	1.00	0.27	N
ATOM	2197	CA	TYR L	36	-5.809	-0.465	18.951	1.00	0.27	C
ATOM	2199	C	TYR L	36	-6.706	-0.946	17.789	1.00	0.27	C
ATOM	2200	CB	TYR L	36	-6.186	0.934	19.474	1.00	0.27	C
ATOM	2203	O	TYR L	36	-7.660	-0.267	17.392	1.00	0.27	O
ATOM	2204	CG	TYR L	36	-5.352	1.406	20.651	1.00	0.27	C
ATOM	2205	CD1	TYR L	36	-5.772	1.141	21.970	1.00	0.27	C
ATOM	2207	CD2	TYR L	36	-4.134	2.076	20.424	1.00	0.27	C
ATOM	2209	CE1	TYR L	36	-4.969	1.540	23.058	1.00	0.27	C
ATOM	2211	CE2	TYR L	36	-3.325	2.464	21.506	1.00	0.27	C
ATOM	2213	OH	TYR L	36	-2.954	2.553	23.873	1.00	0.27	O
ATOM	2215	CZ	TYR L	36	-3.740	2.192	22.826	1.00	0.27	C
ATOM	2216	N	ASN L	37	-6.348	-2.082	17.180	1.00	0.21	N
ATOM	2218	CA	ASN L	37	-7.022	-2.710	16.037	1.00	0.21	C
ATOM	2220	C	ASN L	37	-7.104	-1.850	14.757	1.00	0.21	C
ATOM	2221	CB	ASN L	37	-8.362	-3.334	16.487	1.00	0.21	C
ATOM	2224	O	ASN L	37	-7.798	-2.219	13.808	1.00	0.21	O
ATOM	2225	CG	ASN L	37	-8.152	-4.527	17.410	1.00	0.21	C
ATOM	2226	ND2	ASN L	37	-8.589	-5.697	17.007	1.00	0.21	N
ATOM	2229	OD1	ASN L	37	-7.550	-4.436	18.468	1.00	0.21	O
ATOM	2230	N	ARG L	38	-6.358	-0.740	14.664	1.00	0.27	N
ATOM	2232	CA	ARG L	38	-6.185	0.043	13.428	1.00	0.27	C
ATOM	2234	C	ARG L	38	-5.184	-0.638	12.491	1.00	0.27	C
ATOM	2235	CB	ARG L	38	-5.771	1.491	13.738	1.00	0.27	C
ATOM	2238	O	ARG L	38	-4.122	-0.096	12.192	1.00	0.27	O
ATOM	2239	CG	ARG L	38	-6.634	2.271	14.741	1.00	0.27	C
ATOM	2242	CD	ARG L	38	-8.147	2.089	14.573	1.00	0.27	C
ATOM	2245	NE	ARG L	38	-8.889	3.136	15.303	1.00	0.27	N
ATOM	2247	NH1	ARG L	38	-8.668	2.320	17.455	1.00	0.27	N
ATOM	2250	NH2	ARG L	38	-9.623	4.291	17.117	1.00	0.27	N

ATOM	2253	CZ	ARG L	38	-9.051	3.234	16.612	1.00	0.27	C
ATOM	2254	N	LEU L	39	-5.519	-1.854	12.069	1.00	0.17	N
ATOM	2256	CA	LEU L	39	-4.705	-2.687	11.192	1.00	0.17	C
ATOM	2258	C	LEU L	39	-5.484	-3.081	9.937	1.00	0.17	C
ATOM	2259	CB	LEU L	39	-4.195	-3.907	11.974	1.00	0.17	C
ATOM	2262	O	LEU L	39	-6.669	-3.407	10.009	1.00	0.17	O
ATOM	2263	CG	LEU L	39	-3.181	-4.757	11.175	1.00	0.17	C
ATOM	2265	CD1	LEU L	39	-1.891	-4.966	11.959	1.00	0.17	C
ATOM	2269	CD2	LEU L	39	-3.762	-6.128	10.846	1.00	0.17	C
ATOM	2273	N	ALA L	40	-4.809	-3.066	8.799	1.00	0.17	N
ATOM	2275	CA	ALA L	40	-5.289	-3.593	7.534	1.00	0.17	C
ATOM	2277	C	ALA L	40	-4.412	-4.763	7.065	1.00	0.17	C
ATOM	2278	CB	ALA L	40	-5.328	-2.445	6.523	1.00	0.17	C
ATOM	2282	O	ALA L	40	-3.238	-4.848	7.433	1.00	0.17	O
ATOM	2283	N	TRP L	41	-4.981	-5.635	6.233	1.00	0.10	N
ATOM	2285	CA	TRP L	41	-4.280	-6.689	5.501	1.00	0.10	C
ATOM	2287	C	TRP L	41	-4.541	-6.550	4.003	1.00	0.10	C
ATOM	2288	CB	TRP L	41	-4.719	-8.079	5.968	1.00	0.10	C
ATOM	2291	O	TRP L	41	-5.693	-6.483	3.572	1.00	0.10	O
ATOM	2292	CG	TRP L	41	-4.267	-8.501	7.330	1.00	0.10	C
ATOM	2293	CD1	TRP L	41	-5.025	-8.528	8.450	1.00	0.10	C
ATOM	2295	CD2	TRP L	41	-2.958	-9.018	7.718	1.00	0.10	C
ATOM	2296	CE2	TRP L	41	-3.001	-9.362	9.103	1.00	0.10	C
ATOM	2297	CE3	TRP L	41	-1.759	-9.285	7.021	1.00	0.10	C
ATOM	2299	NE1	TRP L	41	-4.283	-9.040	9.498	1.00	0.10	N
ATOM	2301	CH2	TRP L	41	-0.743	-10.227	9.032	1.00	0.10	C
ATOM	2303	CZ2	TRP L	41	-1.909	-9.943	9.764	1.00	0.10	C
ATOM	2305	CZ3	TRP L	41	-0.665	-9.890	7.669	1.00	0.10	C
ATOM	2307	N	TYR L	42	-3.469	-6.579	3.219	1.00	0.19	N
ATOM	2309	CA	TYR L	42	-3.479	-6.574	1.761	1.00	0.19	C
ATOM	2311	C	TYR L	42	-2.989	-7.912	1.205	1.00	0.19	C
ATOM	2312	CB	TYR L	42	-2.607	-5.433	1.219	1.00	0.19	C
ATOM	2315	O	TYR L	42	-2.169	-8.582	1.828	1.00	0.19	O
ATOM	2316	CG	TYR L	42	-2.996	-4.055	1.708	1.00	0.19	C
ATOM	2317	CD1	TYR L	42	-2.484	-3.569	2.925	1.00	0.19	C
ATOM	2319	CD2	TYR L	42	-3.887	-3.268	0.955	1.00	0.19	C
ATOM	2321	CE1	TYR L	42	-2.886	-2.308	3.399	1.00	0.19	C
ATOM	2323	CE2	TYR L	42	-4.298	-2.015	1.442	1.00	0.19	C
ATOM	2325	OH	TYR L	42	-4.195	-0.320	3.138	1.00	0.19	O
ATOM	2327	CZ	TYR L	42	-3.800	-1.529	2.666	1.00	0.19	C
ATOM	2328	N	GLN L	43	-3.447	-8.258	0.006	1.00	0.18	N
ATOM	2330	CA	GLN L	43	-2.986	-9.366	-0.826	1.00	0.18	C
ATOM	2332	C	GLN L	43	-2.422	-8.795	-2.127	1.00	0.18	C

ATOM	2333	CB	GLN	L	43	-4.182	-10.292	-1.092	1.00	0.18	C
ATOM	2336	O	GLN	L	43	-3.138	-8.127	-2.871	1.00	0.18	O
ATOM	2337	CG	GLN	L	43	-3.921	-11.459	-2.057	1.00	0.18	C
ATOM	2340	CD	GLN	L	43	-5.216	-12.155	-2.475	1.00	0.18	C
ATOM	2341	NE2	GLN	L	43	-5.445	-13.381	-2.062	1.00	0.18	N
ATOM	2344	OE1	GLN	L	43	-6.034	-11.614	-3.205	1.00	0.18	O
ATOM	2345	N	GLN	L	44	-1.160	-9.075	-2.435	1.00	0.22	N
ATOM	2347	CA	GLN	L	44	-0.517	-8.648	-3.672	1.00	0.22	C
ATOM	2349	C	GLN	L	44	0.009	-9.850	-4.456	1.00	0.22	C
ATOM	2350	CB	GLN	L	44	0.586	-7.632	-3.360	1.00	0.22	C
ATOM	2353	O	GLN	L	44	0.706	-10.713	-3.918	1.00	0.22	O
ATOM	2354	CG	GLN	L	44	1.094	-6.992	-4.659	1.00	0.22	C
ATOM	2357	CD	GLN	L	44	2.202	-5.977	-4.442	1.00	0.22	C
ATOM	2358	NE2	GLN	L	44	2.473	-5.159	-5.425	1.00	0.22	N
ATOM	2361	OE1	GLN	L	44	2.845	-5.911	-3.407	1.00	0.22	O
ATOM	2362	N	LYS	L	45	-0.305	-9.893	-5.750	1.00	0.28	N
ATOM	2364	CA	LYS	L	45	0.283	-10.840	-6.705	1.00	0.28	C
ATOM	2366	C	LYS	L	45	1.340	-10.146	-7.570	1.00	0.28	C
ATOM	2367	CB	LYS	L	45	-0.826	-11.490	-7.540	1.00	0.28	C
ATOM	2370	O	LYS	L	45	1.289	-8.923	-7.709	1.00	0.28	O
ATOM	2371	CG	LYS	L	45	-1.596	-12.477	-6.657	1.00	0.28	C
ATOM	2374	CD	LYS	L	45	-2.684	-13.189	-7.454	1.00	0.28	C
ATOM	2377	CE	LYS	L	45	-3.396	-14.148	-6.505	1.00	0.28	C
ATOM	2380	NZ	LYS	L	45	-4.547	-14.794	-7.166	1.00	0.28	N
ATOM	2384	N	PRO	L	46	2.294	-10.891	-8.158	1.00	0.30	N
ATOM	2385	CA	PRO	L	46	3.314	-10.310	-9.027	1.00	0.30	C
ATOM	2387	C	PRO	L	46	2.709	-9.434	-10.132	1.00	0.30	C
ATOM	2388	CB	PRO	L	46	4.096	-11.497	-9.594	1.00	0.30	C
ATOM	2391	O	PRO	L	46	1.675	-9.775	-10.707	1.00	0.30	O
ATOM	2392	CG	PRO	L	46	3.946	-12.562	-8.510	1.00	0.30	C
ATOM	2395	CD	PRO	L	46	2.525	-12.322	-8.003	1.00	0.30	C
ATOM	2398	N	GLY	L	47	3.333	-8.284	-10.399	1.00	0.30	N
ATOM	2400	CA	GLY	L	47	2.887	-7.332	-11.426	1.00	0.30	C
ATOM	2403	C	GLY	L	47	1.525	-6.670	-11.170	1.00	0.30	C
ATOM	2404	O	GLY	L	47	0.996	-6.032	-12.073	1.00	0.30	O
ATOM	2405	N	SER	L	48	0.946	-6.831	-9.976	1.00	0.26	N
ATOM	2407	CA	SER	L	48	-0.375	-6.307	-9.609	1.00	0.26	C
ATOM	2409	C	SER	L	48	-0.268	-5.334	-8.434	1.00	0.26	C
ATOM	2410	CB	SER	L	48	-1.309	-7.458	-9.216	1.00	0.26	C
ATOM	2413	O	SER	L	48	0.596	-5.493	-7.569	1.00	0.26	O
ATOM	2414	OG	SER	L	48	-1.312	-8.491	-10.185	1.00	0.26	O
ATOM	2416	N	ALA	L	49	-1.184	-4.369	-8.355	1.00	0.24	N
ATOM	2418	CA	ALA	L	49	-1.337	-3.537	-7.163	1.00	0.24	C

ATOM	2420	C	ALA L	49	-1.821	-4.369	-5.946	1.00	0.24	C
ATOM	2421	CB	ALA L	49	-2.297	-2.389	-7.487	1.00	0.24	C
ATOM	2425	O	ALA L	49	-2.521	-5.372	-6.133	1.00	0.24	O
ATOM	2426	N	PRO L	50	-1.484	-3.984	-4.699	1.00	0.17	N
ATOM	2427	CA	PRO L	50	-2.031	-4.612	-3.494	1.00	0.17	C
ATOM	2429	C	PRO L	50	-3.557	-4.459	-3.390	1.00	0.17	C
ATOM	2430	CB	PRO L	50	-1.324	-3.934	-2.310	1.00	0.17	C
ATOM	2433	O	PRO L	50	-4.083	-3.348	-3.377	1.00	0.17	O
ATOM	2434	CG	PRO L	50	-0.047	-3.358	-2.918	1.00	0.17	C
ATOM	2437	CD	PRO L	50	-0.477	-2.997	-4.337	1.00	0.17	C
ATOM	2440	N	ARG L	51	-4.283	-5.571	-3.250	1.00	0.20	N
ATOM	2442	CA	ARG L	51	-5.718	-5.577	-2.933	1.00	0.20	C
ATOM	2444	C	ARG L	51	-5.918	-5.545	-1.421	1.00	0.20	C
ATOM	2445	CB	ARG L	51	-6.382	-6.827	-3.541	1.00	0.20	C
ATOM	2448	O	ARG L	51	-5.418	-6.432	-0.737	1.00	0.20	O
ATOM	2449	CG	ARG L	51	-7.906	-6.760	-3.347	1.00	0.20	C
ATOM	2452	CD	ARG L	51	-8.642	-8.062	-3.667	1.00	0.20	C
ATOM	2455	NE	ARG L	51	-10.064	-7.921	-3.294	1.00	0.20	N
ATOM	2457	NH1	ARG L	51	-10.809	-10.008	-3.902	1.00	0.20	N
ATOM	2460	NH2	ARG L	51	-12.264	-8.496	-3.197	1.00	0.20	N
ATOM	2463	CZ	ARG L	51	-11.031	-8.801	-3.465	1.00	0.20	C
ATOM	2464	N	LEU L	52	-6.702	-4.605	-0.897	1.00	0.19	N
ATOM	2466	CA	LEU L	52	-7.162	-4.659	0.495	1.00	0.19	C
ATOM	2468	C	LEU L	52	-8.087	-5.875	0.700	1.00	0.19	C
ATOM	2469	CB	LEU L	52	-7.853	-3.327	0.840	1.00	0.19	C
ATOM	2472	O	LEU L	52	-9.055	-6.045	-0.042	1.00	0.19	O
ATOM	2473	CG	LEU L	52	-8.276	-3.190	2.315	1.00	0.19	C
ATOM	2475	CD1	LEU L	52	-7.098	-3.039	3.272	1.00	0.19	C
ATOM	2479	CD2	LEU L	52	-9.152	-1.949	2.485	1.00	0.19	C
ATOM	2483	N	LEU L	53	-7.775	-6.728	1.680	1.00	0.14	N
ATOM	2485	CA	LEU L	53	-8.621	-7.862	2.066	1.00	0.14	C
ATOM	2487	C	LEU L	53	-9.400	-7.614	3.355	1.00	0.14	C
ATOM	2488	CB	LEU L	53	-7.801	-9.152	2.227	1.00	0.14	C
ATOM	2491	O	LEU L	53	-10.552	-8.032	3.456	1.00	0.14	O
ATOM	2492	CG	LEU L	53	-7.135	-9.717	0.959	1.00	0.14	C
ATOM	2494	CD1	LEU L	53	-6.861	-11.202	1.206	1.00	0.14	C
ATOM	2498	CD2	LEU L	53	-7.981	-9.633	-0.312	1.00	0.14	C
ATOM	2502	N	ILE L	54	-8.757	-6.998	4.349	1.00	0.24	N
ATOM	2504	CA	ILE L	54	-9.324	-6.804	5.687	1.00	0.24	C
ATOM	2506	C	ILE L	54	-8.912	-5.439	6.229	1.00	0.24	C
ATOM	2507	CB	ILE L	54	-8.921	-7.968	6.635	1.00	0.24	C
ATOM	2509	O	ILE L	54	-7.743	-5.066	6.128	1.00	0.24	O
ATOM	2510	CG1	ILE L	54	-9.522	-9.294	6.106	1.00	0.24	C

ATOM	2513	CG2 ILE L	54	-9.311	-7.710	8.105	1.00	0.24	C
ATOM	2517	CD1 ILE L	54	-9.477	-10.490	7.051	1.00	0.24	C
ATOM	2521	N SER L	55	-9.841	-4.736	6.869	1.00	0.26	N
ATOM	2523	CA SER L	55	-9.610	-3.505	7.633	1.00	0.26	C
ATOM	2525	C SER L	55	-10.048	-3.678	9.098	1.00	0.26	C
ATOM	2526	CB SER L	55	-10.319	-2.331	6.946	1.00	0.26	C
ATOM	2529	O SER L	55	-10.634	-4.692	9.487	1.00	0.26	O
ATOM	2530	OG SER L	55	-11.715	-2.520	6.949	1.00	0.26	O
ATOM	2532	N GLY L	56	-9.695	-2.727	9.973	1.00	0.37	N
ATOM	2534	CA GLY L	56	-10.068	-2.769	11.400	1.00	0.37	C
ATOM	2537	C GLY L	56	-9.653	-4.061	12.126	1.00	0.37	C
ATOM	2538	O GLY L	56	-10.389	-4.567	12.975	1.00	0.37	O
ATOM	2539	N ALA L	57	-8.528	-4.651	11.712	1.00	0.21	N
ATOM	2541	CA ALA L	57	-7.989	-5.951	12.118	1.00	0.21	C
ATOM	2543	C ALA L	57	-8.885	-7.183	11.856	1.00	0.21	C
ATOM	2544	CB ALA L	57	-7.547	-5.864	13.585	1.00	0.21	C
ATOM	2548	O ALA L	57	-8.422	-8.302	12.065	1.00	0.21	O
ATOM	2549	N THR L	65	-10.140	-7.011	11.430	1.00	0.35	N
ATOM	2551	CA THR L	65	-11.196	-8.042	11.524	1.00	0.35	C
ATOM	2553	C THR L	65	-12.283	-7.947	10.447	1.00	0.35	C
ATOM	2554	CB THR L	65	-11.904	-7.955	12.889	1.00	0.35	C
ATOM	2556	O THR L	65	-12.884	-8.966	10.119	1.00	0.35	O
ATOM	2557	CG2 THR L	65	-11.017	-8.319	14.080	1.00	0.35	C
ATOM	2561	OG1 THR L	65	-12.392	-6.645	13.105	1.00	0.35	O
ATOM	2563	N SER L	66	-12.543	-6.761	9.886	1.00	0.29	N
ATOM	2565	CA SER L	66	-13.625	-6.522	8.922	1.00	0.29	C
ATOM	2567	C SER L	66	-13.211	-6.931	7.511	1.00	0.29	C
ATOM	2568	CB SER L	66	-14.029	-5.045	8.941	1.00	0.29	C
ATOM	2571	O SER L	66	-12.237	-6.410	6.978	1.00	0.29	O
ATOM	2572	OG SER L	66	-14.528	-4.721	10.227	1.00	0.29	O
ATOM	2574	N LEU L	67	-13.939	-7.878	6.920	1.00	0.23	N
ATOM	2576	CA LEU L	67	-13.681	-8.418	5.584	1.00	0.23	C
ATOM	2578	C LEU L	67	-14.186	-7.467	4.489	1.00	0.23	C
ATOM	2579	CB LEU L	67	-14.356	-9.801	5.514	1.00	0.23	C
ATOM	2582	O LEU L	67	-15.353	-7.077	4.509	1.00	0.23	O
ATOM	2583	CG LEU L	67	-14.011	-10.633	4.269	1.00	0.23	C
ATOM	2585	CD1 LEU L	67	-12.550	-11.085	4.297	1.00	0.23	C
ATOM	2589	CD2 LEU L	67	-14.883	-11.888	4.223	1.00	0.23	C
ATOM	2593	N GLU L	68	-13.328	-7.111	3.532	1.00	0.27	N
ATOM	2595	CA GLU L	68	-13.694	-6.176	2.466	1.00	0.27	C
ATOM	2597	C GLU L	68	-14.654	-6.756	1.418	1.00	0.27	C
ATOM	2598	CB GLU L	68	-12.443	-5.597	1.784	1.00	0.27	C
ATOM	2601	O GLU L	68	-14.782	-7.969	1.217	1.00	0.27	O

ATOM	2602	CG	GLU L	68	-11.635	-4.650	2.678	1.00	0.27	C
ATOM	2605	CD	GLU L	68	-12.470	-3.539	3.335	1.00	0.27	C
ATOM	2606	OE1	GLU L	68	-13.453	-3.096	2.695	1.00	0.27	O
ATOM	2607	OE2	GLU L	68	-12.117	-3.145	4.472	1.00	0.27	O
ATOM	2608	N	THR L	69	-15.323	-5.850	0.701	1.00	0.39	N
ATOM	2610	CA	THR L	69	-16.329	-6.204	-0.310	1.00	0.39	C
ATOM	2612	C	THR L	69	-15.751	-7.135	-1.386	1.00	0.39	C
ATOM	2613	CB	THR L	69	-16.958	-4.946	-0.926	1.00	0.39	C
ATOM	2615	O	THR L	69	-14.716	-6.868	-2.004	1.00	0.39	O
ATOM	2616	CG2	THR L	69	-17.949	-5.244	-2.053	1.00	0.39	C
ATOM	2620	OG1	THR L	69	-17.694	-4.268	0.065	1.00	0.39	O
ATOM	2622	N	GLY L	70	-16.439	-8.257	-1.621	1.00	0.26	N
ATOM	2624	CA	GLY L	70	-16.058	-9.253	-2.625	1.00	0.26	C
ATOM	2627	C	GLY L	70	-14.795	-10.059	-2.291	1.00	0.26	C
ATOM	2628	O	GLY L	70	-14.169	-10.605	-3.204	1.00	0.26	O
ATOM	2629	N	VAL L	71	-14.335	-10.082	-1.038	1.00	0.22	N
ATOM	2631	CA	VAL L	71	-13.288	-11.014	-0.582	1.00	0.22	C
ATOM	2633	C	VAL L	71	-13.942	-12.339	-0.152	1.00	0.22	C
ATOM	2634	CB	VAL L	71	-12.458	-10.414	0.566	1.00	0.22	C
ATOM	2636	O	VAL L	71	-14.972	-12.305	0.523	1.00	0.22	O
ATOM	2637	CG1	VAL L	71	-11.320	-11.356	0.986	1.00	0.22	C
ATOM	2641	CG2	VAL L	71	-11.821	-9.082	0.162	1.00	0.22	C
ATOM	2645	N	PRO L	72	-13.400	-13.519	-0.516	1.00	0.29	N
ATOM	2646	CA	PRO L	72	-13.967	-14.798	-0.087	1.00	0.29	C
ATOM	2648	C	PRO L	72	-13.939	-14.985	1.439	1.00	0.29	C
ATOM	2649	CB	PRO L	72	-13.143	-15.878	-0.800	1.00	0.29	C
ATOM	2652	O	PRO L	72	-12.922	-14.737	2.085	1.00	0.29	O
ATOM	2653	CG	PRO L	72	-12.579	-15.156	-2.021	1.00	0.29	C
ATOM	2656	CD	PRO L	72	-12.338	-13.746	-1.487	1.00	0.29	C
ATOM	2659	N	SER L	74	-15.015	-15.538	2.008	1.00	0.26	N
ATOM	2661	CA	SER L	74	-15.205	-15.749	3.457	1.00	0.26	C
ATOM	2663	C	SER L	74	-14.248	-16.757	4.115	1.00	0.26	C
ATOM	2664	CB	SER L	74	-16.655	-16.179	3.706	1.00	0.26	C
ATOM	2667	O	SER L	74	-14.420	-17.086	5.286	1.00	0.26	O
ATOM	2668	OG	SER L	74	-16.917	-17.414	3.067	1.00	0.26	O
ATOM	2670	N	ARG L	75	-13.263	-17.281	3.376	1.00	0.20	N
ATOM	2672	CA	ARG L	75	-12.190	-18.134	3.908	1.00	0.20	C
ATOM	2674	C	ARG L	75	-11.039	-17.340	4.540	1.00	0.20	C
ATOM	2675	CB	ARG L	75	-11.728	-19.120	2.822	1.00	0.20	C
ATOM	2678	O	ARG L	75	-10.253	-17.930	5.283	1.00	0.20	O
ATOM	2679	CG	ARG L	75	-10.868	-18.511	1.706	1.00	0.20	C
ATOM	2682	CD	ARG L	75	-10.578	-19.539	0.602	1.00	0.20	C
ATOM	2685	NE	ARG L	75	-9.850	-18.901	-0.505	1.00	0.20	N

ATOM	2687	NH1	ARG	L	75	-11.295	-19.222	-2.293	1.00	0.20		N
ATOM	2690	NH2	ARG	L	75	-9.531	-17.980	-2.543	1.00	0.20		N
ATOM	2693	CZ	ARG	L	75	-10.235	-18.708	-1.749	1.00	0.20		C
ATOM	2694	N	PHE	L	76	-10.960	-16.034	4.255	1.00	0.14		N
ATOM	2696	CA	PHE	L	76	-10.083	-15.068	4.921	1.00	0.14		C
ATOM	2698	C	PHE	L	76	-10.719	-14.538	6.212	1.00	0.14		C
ATOM	2699	CB	PHE	L	76	-9.795	-13.895	3.971	1.00	0.14		C
ATOM	2702	O	PHE	L	76	-11.889	-14.163	6.222	1.00	0.14		O
ATOM	2703	CG	PHE	L	76	-8.895	-14.254	2.809	1.00	0.14		C
ATOM	2704	CD1	PHE	L	76	-7.501	-14.243	2.992	1.00	0.14		C
ATOM	2706	CD2	PHE	L	76	-9.434	-14.615	1.559	1.00	0.14		C
ATOM	2708	CE1	PHE	L	76	-6.649	-14.579	1.930	1.00	0.14		C
ATOM	2710	CE2	PHE	L	76	-8.579	-14.969	0.500	1.00	0.14		C
ATOM	2712	CZ	PHE	L	76	-7.187	-14.946	0.687	1.00	0.14		C
ATOM	2714	N	SER	L	77	-9.935	-14.443	7.289	1.00	0.16		N
ATOM	2716	CA	SER	L	77	-10.394	-13.890	8.572	1.00	0.16		C
ATOM	2718	C	SER	L	77	-9.271	-13.175	9.324	1.00	0.16		C
ATOM	2719	CB	SER	L	77	-10.982	-14.999	9.453	1.00	0.16		C
ATOM	2722	O	SER	L	77	-8.185	-13.734	9.504	1.00	0.16		O
ATOM	2723	OG	SER	L	77	-9.977	-15.930	9.814	1.00	0.16		O
ATOM	2725	N	GLY	L	78	-9.551	-11.964	9.803	1.00	0.11		N
ATOM	2727	CA	GLY	L	78	-8.645	-11.162	10.622	1.00	0.11		C
ATOM	2730	C	GLY	L	78	-8.864	-11.406	12.113	1.00	0.11		C
ATOM	2731	O	GLY	L	78	-9.939	-11.827	12.537	1.00	0.11		O
ATOM	2732	N	SER	L	79	-7.827	-11.179	12.913	1.00	0.22		N
ATOM	2734	CA	SER	L	79	-7.824	-11.459	14.348	1.00	0.22		C
ATOM	2736	C	SER	L	79	-6.701	-10.703	15.054	1.00	0.22		C
ATOM	2737	CB	SER	L	79	-7.641	-12.967	14.559	1.00	0.22		C
ATOM	2740	O	SER	L	79	-5.723	-10.294	14.422	1.00	0.22		O
ATOM	2741	OG	SER	L	79	-6.419	-13.392	13.976	1.00	0.22		O
ATOM	2743	N	GLY	L	80	-6.825	-10.574	16.375	1.00	0.30		N
ATOM	2745	CA	GLY	L	80	-5.802	-10.001	17.243	1.00	0.30		C
ATOM	2748	C	GLY	L	80	-6.224	-8.710	17.925	1.00	0.30		C
ATOM	2749	O	GLY	L	80	-7.333	-8.203	17.734	1.00	0.30		O
ATOM	2750	N	SER	L	83	-5.326	-8.202	18.757	1.00	0.30		N
ATOM	2752	CA	SER	L	83	-5.579	-7.060	19.630	1.00	0.30		C
ATOM	2754	C	SER	L	83	-4.281	-6.503	20.193	1.00	0.30		C
ATOM	2755	CB	SER	L	83	-6.488	-7.464	20.798	1.00	0.30		C
ATOM	2758	O	SER	L	83	-3.324	-7.237	20.446	1.00	0.30		O
ATOM	2759	OG	SER	L	83	-5.927	-8.546	21.523	1.00	0.30		O
ATOM	2761	N	GLY	L	84	-4.280	-5.204	20.467	1.00	0.31		N
ATOM	2763	CA	GLY	L	84	-3.132	-4.512	21.032	1.00	0.31		C
ATOM	2766	C	GLY	L	84	-1.983	-4.418	20.028	1.00	0.31		C

ATOM	2767	O	GLY	L	84	-2.010	-3.592	19.108	1.00	0.31	O
ATOM	2768	N	LYS	L	85	-1.002	-5.319	20.162	1.00	0.28	N
ATOM	2770	CA	LYS	L	85	0.188	-5.387	19.301	1.00	0.28	C
ATOM	2772	C	LYS	L	85	0.230	-6.584	18.356	1.00	0.28	C
ATOM	2773	CB	LYS	L	85	1.450	-5.327	20.172	1.00	0.28	C
ATOM	2776	O	LYS	L	85	0.926	-6.493	17.351	1.00	0.28	O
ATOM	2777	CG	LYS	L	85	1.547	-3.950	20.842	1.00	0.28	C
ATOM	2780	CD	LYS	L	85	2.864	-3.766	21.591	1.00	0.28	C
ATOM	2783	CE	LYS	L	85	2.801	-2.420	22.313	1.00	0.28	C
ATOM	2786	NZ	LYS	L	85	4.132	-2.017	22.821	1.00	0.28	N
ATOM	2790	N	ASP	L	86	-0.503	-7.663	18.621	1.00	0.27	N
ATOM	2792	CA	ASP	L	86	-0.348	-8.934	17.904	1.00	0.27	C
ATOM	2794	C	ASP	L	86	-1.608	-9.284	17.112	1.00	0.27	C
ATOM	2795	CB	ASP	L	86	0.079	-10.063	18.857	1.00	0.27	C
ATOM	2798	O	ASP	L	86	-2.708	-9.361	17.666	1.00	0.27	O
ATOM	2799	CG	ASP	L	86	1.452	-9.817	19.497	1.00	0.27	C
ATOM	2800	OD1	ASP	L	86	2.359	-10.667	19.342	1.00	0.27	O
ATOM	2801	OD2	ASP	L	86	1.685	-8.762	20.136	1.00	0.27	O
ATOM	2802	N	TYR	L	87	-1.430	-9.495	15.806	1.00	0.20	N
ATOM	2804	CA	TYR	L	87	-2.505	-9.668	14.834	1.00	0.20	C
ATOM	2806	C	TYR	L	87	-2.214	-10.807	13.866	1.00	0.20	C
ATOM	2807	CB	TYR	L	87	-2.748	-8.354	14.080	1.00	0.20	C
ATOM	2810	O	TYR	L	87	-1.059	-11.091	13.539	1.00	0.20	O
ATOM	2811	CG	TYR	L	87	-3.117	-7.194	14.983	1.00	0.20	C
ATOM	2812	CD1	TYR	L	87	-2.112	-6.361	15.510	1.00	0.20	C
ATOM	2814	CD2	TYR	L	87	-4.463	-6.985	15.336	1.00	0.20	C
ATOM	2816	CE1	TYR	L	87	-2.454	-5.312	16.382	1.00	0.20	C
ATOM	2818	CE2	TYR	L	87	-4.809	-5.927	16.198	1.00	0.20	C
ATOM	2820	OH	TYR	L	87	-4.138	-4.063	17.551	1.00	0.20	O
ATOM	2822	CZ	TYR	L	87	-3.805	-5.084	16.719	1.00	0.20	C
ATOM	2823	N	THR	L	88	-3.269	-11.456	13.374	1.00	0.21	N
ATOM	2825	CA	THR	L	88	-3.145	-12.558	12.415	1.00	0.21	C
ATOM	2827	C	THR	L	88	-4.201	-12.482	11.321	1.00	0.21	C
ATOM	2828	CB	THR	L	88	-3.072	-13.962	13.067	1.00	0.21	C
ATOM	2830	O	THR	L	88	-5.388	-12.284	11.603	1.00	0.21	O
ATOM	2831	CG2	THR	L	88	-2.784	-14.001	14.569	1.00	0.21	C
ATOM	2835	OG1	THR	L	88	-4.241	-14.733	12.880	1.00	0.21	O
ATOM	2837	N	LEU	L	89	-3.767	-12.664	10.075	1.00	0.14	N
ATOM	2839	CA	LEU	L	89	-4.629	-13.085	8.979	1.00	0.14	C
ATOM	2841	C	LEU	L	89	-4.609	-14.609	8.942	1.00	0.14	C
ATOM	2842	CB	LEU	L	89	-4.118	-12.483	7.659	1.00	0.14	C
ATOM	2845	O	LEU	L	89	-3.538	-15.211	8.901	1.00	0.14	O
ATOM	2846	CG	LEU	L	89	-4.946	-12.848	6.413	1.00	0.14	C

ATOM	2848	CD1	LEU	L	89	-6.336	-12.212	6.472	1.00	0.14	C
ATOM	2852	CD2	LEU	L	89	-4.241	-12.340	5.156	1.00	0.14	C
ATOM	2856	N	SER	L	90	-5.774	-15.240	8.941	1.00	0.21	N
ATOM	2858	CA	SER	L	90	-5.893	-16.675	8.692	1.00	0.21	C
ATOM	2860	C	SER	L	90	-6.585	-16.923	7.358	1.00	0.21	C
ATOM	2861	CB	SER	L	90	-6.612	-17.369	9.845	1.00	0.21	C
ATOM	2864	O	SER	L	90	-7.526	-16.209	7.008	1.00	0.21	O
ATOM	2865	OG	SER	L	90	-5.854	-17.230	11.041	1.00	0.21	O
ATOM	2867	N	ILE	L	91	-6.115	-17.941	6.640	1.00	0.19	N
ATOM	2869	CA	ILE	L	91	-6.769	-18.488	5.452	1.00	0.19	C
ATOM	2871	C	ILE	L	91	-7.155	-19.921	5.786	1.00	0.19	C
ATOM	2872	CB	ILE	L	91	-5.887	-18.434	4.185	1.00	0.19	C
ATOM	2874	O	ILE	L	91	-6.303	-20.741	6.120	1.00	0.19	O
ATOM	2875	CG1	ILE	L	91	-5.157	-17.081	4.041	1.00	0.19	C
ATOM	2878	CG2	ILE	L	91	-6.782	-18.736	2.966	1.00	0.19	C
ATOM	2882	CD1	ILE	L	91	-4.320	-16.976	2.764	1.00	0.19	C
ATOM	2886	N	THR	L	92	-8.444	-20.219	5.745	1.00	0.38	N
ATOM	2888	CA	THR	L	92	-8.941	-21.597	5.819	1.00	0.38	C
ATOM	2890	C	THR	L	92	-9.034	-22.179	4.407	1.00	0.38	C
ATOM	2891	CB	THR	L	92	-10.290	-21.654	6.550	1.00	0.38	C
ATOM	2893	O	THR	L	92	-9.365	-21.458	3.472	1.00	0.38	O
ATOM	2894	CG2	THR	L	92	-10.184	-21.188	8.003	1.00	0.38	C
ATOM	2898	OG1	THR	L	92	-11.257	-20.838	5.935	1.00	0.38	O
ATOM	2900	N	SER	L	93	-8.743	-23.473	4.232	1.00	0.43	N
ATOM	2902	CA	SER	L	93	-8.864	-24.172	2.942	1.00	0.43	C
ATOM	2904	C	SER	L	93	-8.167	-23.444	1.779	1.00	0.43	C
ATOM	2905	CB	SER	L	93	-10.337	-24.481	2.644	1.00	0.43	C
ATOM	2908	O	SER	L	93	-8.805	-23.119	0.776	1.00	0.43	O
ATOM	2909	OG	SER	L	93	-10.453	-25.237	1.458	1.00	0.43	O
ATOM	2911	N	LEU	L	94	-6.865	-23.177	1.931	1.00	0.32	N
ATOM	2913	CA	LEU	L	94	-6.051	-22.419	0.975	1.00	0.32	C
ATOM	2915	C	LEU	L	94	-6.276	-22.873	-0.477	1.00	0.32	C
ATOM	2916	CB	LEU	L	94	-4.574	-22.603	1.372	1.00	0.32	C
ATOM	2919	O	LEU	L	94	-6.048	-24.039	-0.805	1.00	0.32	O
ATOM	2920	CG	LEU	L	94	-3.583	-21.810	0.500	1.00	0.32	C
ATOM	2922	CD1	LEU	L	94	-3.519	-20.354	0.959	1.00	0.32	C
ATOM	2926	CD2	LEU	L	94	-2.191	-22.417	0.609	1.00	0.32	C
ATOM	2930	N	GLN	L	95	-6.680	-21.953	-1.352	1.00	0.37	N
ATOM	2932	CA	GLN	L	95	-6.859	-22.234	-2.777	1.00	0.37	C
ATOM	2934	C	GLN	L	95	-5.685	-21.720	-3.620	1.00	0.37	C
ATOM	2935	CB	GLN	L	95	-8.202	-21.684	-3.267	1.00	0.37	C
ATOM	2938	O	GLN	L	95	-4.889	-20.889	-3.187	1.00	0.37	O
ATOM	2939	CG	GLN	L	95	-9.392	-22.280	-2.494	1.00	0.37	C

ATOM	2942	CD	GLN	L	95	-10.760	-22.024	-3.127	1.00	0.37	C
ATOM	2943	NE2	GLN	L	95	-10.872	-21.646	-4.382	1.00	0.37	N
ATOM	2946	OE1	GLN	L	95	-11.782	-22.067	-2.459	1.00	0.37	O
ATOM	2947	N	THR	L	96	-5.588	-22.181	-4.867	1.00	0.34	N
ATOM	2949	CA	THR	L	96	-4.528	-21.786	-5.812	1.00	0.34	C
ATOM	2951	C	THR	L	96	-4.448	-20.277	-6.026	1.00	0.34	C
ATOM	2952	CB	THR	L	96	-4.767	-22.436	-7.184	1.00	0.34	C
ATOM	2954	O	THR	L	96	-3.365	-19.730	-6.214	1.00	0.34	O
ATOM	2955	CG2	THR	L	96	-4.340	-23.900	-7.216	1.00	0.34	C
ATOM	2959	OG1	THR	L	96	-6.138	-22.414	-7.535	1.00	0.34	O
ATOM	2961	N	GLU	L	97	-5.581	-19.575	-5.999	1.00	0.19	N
ATOM	2963	CA	GLU	L	97	-5.618	-18.126	-6.147	1.00	0.19	C
ATOM	2965	C	GLU	L	97	-5.272	-17.357	-4.857	1.00	0.19	C
ATOM	2966	CB	GLU	L	97	-6.944	-17.680	-6.794	1.00	0.19	C
ATOM	2969	O	GLU	L	97	-5.185	-16.131	-4.913	1.00	0.19	O
ATOM	2970	CG	GLU	L	97	-8.192	-17.649	-5.895	1.00	0.19	C
ATOM	2973	CD	GLU	L	97	-8.864	-19.005	-5.630	1.00	0.19	C
ATOM	2974	OE1	GLU	L	97	-8.297	-20.068	-5.971	1.00	0.19	O
ATOM	2975	OE2	GLU	L	97	-9.956	-18.975	-5.014	1.00	0.19	O
ATOM	2976	N	ASP	L	98	-5.026	-18.029	-3.730	1.00	0.22	N
ATOM	2978	CA	ASP	L	98	-4.493	-17.420	-2.501	1.00	0.22	C
ATOM	2980	C	ASP	L	98	-2.957	-17.352	-2.473	1.00	0.22	C
ATOM	2981	CB	ASP	L	98	-5.005	-18.176	-1.270	1.00	0.22	C
ATOM	2984	O	ASP	L	98	-2.387	-16.718	-1.583	1.00	0.22	O
ATOM	2985	CG	ASP	L	98	-6.522	-18.168	-1.145	1.00	0.22	C
ATOM	2986	OD1	ASP	L	98	-7.157	-17.178	-1.572	1.00	0.22	O
ATOM	2987	OD2	ASP	L	98	-7.089	-19.149	-0.618	1.00	0.22	O
ATOM	2988	N	VAL	L	99	-2.277	-17.961	-3.448	1.00	0.32	N
ATOM	2990	CA	VAL	L	99	-0.827	-17.827	-3.660	1.00	0.32	C
ATOM	2992	C	VAL	L	99	-0.499	-16.365	-3.985	1.00	0.32	C
ATOM	2993	CB	VAL	L	99	-0.369	-18.780	-4.781	1.00	0.32	C
ATOM	2995	O	VAL	L	99	-0.807	-15.865	-5.074	1.00	0.32	O
ATOM	2996	CG1	VAL	L	99	1.105	-18.615	-5.175	1.00	0.32	C
ATOM	3000	CG2	VAL	L	99	-0.579	-20.241	-4.371	1.00	0.32	C
ATOM	3004	N	ALA	L	100	0.064	-15.654	-3.007	1.00	0.25	N
ATOM	3006	CA	ALA	L	100	0.286	-14.207	-3.029	1.00	0.25	C
ATOM	3008	C	ALA	L	100	1.188	-13.760	-1.863	1.00	0.25	C
ATOM	3009	CB	ALA	L	100	-1.079	-13.508	-2.926	1.00	0.25	C
ATOM	3013	O	ALA	L	100	1.386	-14.503	-0.900	1.00	0.25	O
ATOM	3014	N	THR	L	101	1.695	-12.526	-1.924	1.00	0.22	N
ATOM	3016	CA	THR	L	101	2.337	-11.847	-0.788	1.00	0.22	C
ATOM	3018	C	THR	L	101	1.306	-11.046	-0.008	1.00	0.22	C
ATOM	3019	CB	THR	L	101	3.488	-10.935	-1.232	1.00	0.22	C

ATOM	3021	O	THR	L	101	0.637	-10.178	-0.569	1.00	0.22		O
ATOM	3022	CG2	THR	L	101	4.253	-10.349	-0.043	1.00	0.22		C
ATOM	3026	OG1	THR	L	101	4.432	-11.669	-1.977	1.00	0.22		O
ATOM	3028	N	TYR	L	102	1.187	-11.313	1.289	1.00	0.17		N
ATOM	3030	CA	TYR	L	102	0.266	-10.610	2.175	1.00	0.17		C
ATOM	3032	C	TYR	L	102	1.004	-9.590	3.030	1.00	0.17		C
ATOM	3033	CB	TYR	L	102	-0.496	-11.608	3.043	1.00	0.17		C
ATOM	3036	O	TYR	L	102	1.975	-9.942	3.697	1.00	0.17		O
ATOM	3037	CG	TYR	L	102	-1.371	-12.532	2.224	1.00	0.17		C
ATOM	3038	CD1	TYR	L	102	-0.823	-13.688	1.632	1.00	0.17		C
ATOM	3040	CD2	TYR	L	102	-2.715	-12.189	1.993	1.00	0.17		C
ATOM	3042	CE1	TYR	L	102	-1.616	-14.496	0.798	1.00	0.17		C
ATOM	3044	CE2	TYR	L	102	-3.514	-13.009	1.179	1.00	0.17		C
ATOM	3046	OH	TYR	L	102	-3.731	-14.898	-0.258	1.00	0.17		O
ATOM	3048	CZ	TYR	L	102	-2.965	-14.156	0.576	1.00	0.17		C
ATOM	3049	N	TYR	L	103	0.528	-8.349	3.039	1.00	0.16		N
ATOM	3051	CA	TYR	L	103	1.104	-7.243	3.805	1.00	0.16		C
ATOM	3053	C	TYR	L	103	0.126	-6.784	4.882	1.00	0.16		C
ATOM	3054	CB	TYR	L	103	1.441	-6.075	2.867	1.00	0.16		C
ATOM	3057	O	TYR	L	103	-1.022	-6.481	4.566	1.00	0.16		O
ATOM	3058	CG	TYR	L	103	2.627	-6.314	1.954	1.00	0.16		C
ATOM	3059	CD1	TYR	L	103	3.917	-6.057	2.445	1.00	0.16		C
ATOM	3061	CD2	TYR	L	103	2.456	-6.744	0.622	1.00	0.16		C
ATOM	3063	CE1	TYR	L	103	5.044	-6.235	1.624	1.00	0.16		C
ATOM	3065	CE2	TYR	L	103	3.583	-6.915	-0.209	1.00	0.16		C
ATOM	3067	OH	TYR	L	103	5.972	-6.875	-0.487	1.00	0.16		O
ATOM	3069	CZ	TYR	L	103	4.880	-6.671	0.294	1.00	0.16		C
ATOM	3070	N	CYS	L	104	0.564	-6.680	6.135	1.00	0.12		N
ATOM	3072	CA	CYS	L	104	-0.161	-5.875	7.116	1.00	0.12		C
ATOM	3074	C	CYS	L	104	0.213	-4.391	6.981	1.00	0.12		C
ATOM	3075	CB	CYS	L	104	0.075	-6.394	8.534	1.00	0.12		C
ATOM	3078	O	CYS	L	104	1.265	-4.047	6.443	1.00	0.12		O
ATOM	3079	SG	CYS	L	104	1.781	-6.308	9.120	1.00	0.12		S
ATOM	3080	N	GLN	L	105	-0.633	-3.510	7.505	1.00	0.11		N
ATOM	3082	CA	GLN	L	105	-0.370	-2.075	7.628	1.00	0.11		C
ATOM	3084	C	GLN	L	105	-1.086	-1.539	8.861	1.00	0.11		C
ATOM	3085	CB	GLN	L	105	-0.872	-1.361	6.366	1.00	0.11		C
ATOM	3088	O	GLN	L	105	-2.246	-1.883	9.084	1.00	0.11		O
ATOM	3089	CG	GLN	L	105	-0.621	0.160	6.306	1.00	0.11		C
ATOM	3092	CD	GLN	L	105	-1.878	0.953	5.938	1.00	0.11		C
ATOM	3093	NE2	GLN	L	105	-2.156	2.049	6.605	1.00	0.11		N
ATOM	3096	OE1	GLN	L	105	-2.642	0.585	5.058	1.00	0.11		O
ATOM	3097	N	GLN	L	106	-0.433	-0.686	9.648	1.00	0.15		N

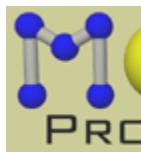
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ATOM	3101	C	GLN	L	106	-1.642	1.419	10.105	1.00	0.15	C
ATOM	3102	CB	GLN	L	106	-0.279	0.273	11.926	1.00	0.15	C
ATOM	3105	O	GLN	L	106	-1.014	2.033	9.239	1.00	0.15	O
ATOM	3106	CG	GLN	L	106	0.984	1.127	11.727	1.00	0.15	C
ATOM	3109	CD	GLN	L	106	0.769	2.637	11.831	1.00	0.15	C
ATOM	3110	NE2	GLN	L	106	1.770	3.417	11.496	1.00	0.15	N
ATOM	3113	OE1	GLN	L	106	-0.281	3.134	12.224	1.00	0.15	O
ATOM	3114	N	PHE	L	107	-2.774	1.867	10.637	1.00	0.19	N
ATOM	3116	CA	PHE	L	107	-3.362	3.172	10.354	1.00	0.19	C
ATOM	3118	C	PHE	L	107	-3.709	3.966	11.625	1.00	0.19	C
ATOM	3119	CB	PHE	L	107	-4.509	3.017	9.356	1.00	0.19	C
ATOM	3122	O	PHE	L	107	-4.535	4.881	11.601	1.00	0.19	O
ATOM	3123	CG	PHE	L	107	-5.725	2.207	9.774	1.00	0.19	C
ATOM	3124	CD1	PHE	L	107	-5.820	0.843	9.436	1.00	0.19	C
ATOM	3126	CD2	PHE	L	107	-6.817	2.843	10.394	1.00	0.19	C
ATOM	3128	CE1	PHE	L	107	-6.994	0.123	9.724	1.00	0.19	C
ATOM	3130	CE2	PHE	L	107	-7.987	2.122	10.688	1.00	0.19	C
ATOM	3132	CZ	PHE	L	107	-8.076	0.758	10.359	1.00	0.19	C
ATOM	3134	N	TRP	L	108	-3.063	3.629	12.746	1.00	0.23	N
ATOM	3136	CA	TRP	L	108	-3.217	4.314	14.031	1.00	0.23	C
ATOM	3138	C	TRP	L	108	-2.536	5.684	14.051	1.00	0.23	C
ATOM	3139	CB	TRP	L	108	-2.664	3.418	15.147	1.00	0.23	C
ATOM	3142	O	TRP	L	108	-3.135	6.655	14.510	1.00	0.23	O
ATOM	3143	CG	TRP	L	108	-2.659	3.991	16.532	1.00	0.23	C
ATOM	3144	CD1	TRP	L	108	-1.605	3.936	17.375	1.00	0.23	C
ATOM	3146	CD2	TRP	L	108	-3.748	4.599	17.304	1.00	0.23	C
ATOM	3147	CE2	TRP	L	108	-3.266	4.873	18.621	1.00	0.23	C
ATOM	3148	CE3	TRP	L	108	-5.094	4.943	17.040	1.00	0.23	C
ATOM	3150	NE1	TRP	L	108	-1.956	4.452	18.602	1.00	0.23	N
ATOM	3152	CH2	TRP	L	108	-5.414	5.741	19.328	1.00	0.23	C
ATOM	3154	CZ2	TRP	L	108	-4.078	5.424	19.623	1.00	0.23	C
ATOM	3156	CZ3	TRP	L	108	-5.917	5.507	18.036	1.00	0.23	C
ATOM	3158	N	SER	L	109	-1.315	5.789	13.519	1.00	0.20	N
ATOM	3160	CA	SER	L	109	-0.566	7.049	13.490	1.00	0.20	C
ATOM	3162	C	SER	L	109	0.352	7.152	12.273	1.00	0.20	C
ATOM	3163	CB	SER	L	109	0.223	7.245	14.792	1.00	0.20	C
ATOM	3166	O	SER	L	109	0.871	6.159	11.763	1.00	0.20	O
ATOM	3167	OG	SER	L	109	1.293	6.328	14.894	1.00	0.20	O
ATOM	3169	N	ALA	L	114	0.538	8.379	11.787	1.00	0.33	N
ATOM	3171	CA	ALA	L	114	1.487	8.661	10.719	1.00	0.33	C
ATOM	3173	C	ALA	L	114	2.944	8.635	11.247	1.00	0.33	C
ATOM	3174	CB	ALA	L	114	1.129	10.009	10.082	1.00	0.33	C

ATOM	3178	O	ALA L 114	3.176	9.085	12.371	1.00	0.33		O
ATOM	3179	N	PRO L 115	3.931	8.199	10.439	1.00	0.16		N
ATOM	3180	CA	PRO L 115	3.774	7.651	9.092	1.00	0.16		C
ATOM	3182	C	PRO L 115	3.120	6.264	9.094	1.00	0.16		C
ATOM	3183	CB	PRO L 115	5.187	7.604	8.513	1.00	0.16		C
ATOM	3186	O	PRO L 115	3.431	5.417	9.928	1.00	0.16		O
ATOM	3187	CG	PRO L 115	6.070	7.404	9.743	1.00	0.16		C
ATOM	3190	CD	PRO L 115	5.336	8.196	10.824	1.00	0.16		C
ATOM	3193	N	TYR L 116	2.202	6.041	8.151	1.00	0.22		N
ATOM	3195	CA	TYR L 116	1.486	4.772	8.020	1.00	0.22		C
ATOM	3197	C	TYR L 116	2.392	3.684	7.437	1.00	0.22		C
ATOM	3198	CB	TYR L 116	0.207	4.970	7.193	1.00	0.22		C
ATOM	3201	O	TYR L 116	2.684	3.649	6.244	1.00	0.22		O
ATOM	3202	CG	TYR L 116	-0.922	5.761	7.852	1.00	0.22		C
ATOM	3203	CD1	TYR L 116	-1.108	5.754	9.252	1.00	0.22		C
ATOM	3205	CD2	TYR L 116	-1.862	6.434	7.043	1.00	0.22		C
ATOM	3207	CE1	TYR L 116	-2.220	6.387	9.833	1.00	0.22		C
ATOM	3209	CE2	TYR L 116	-2.991	7.052	7.620	1.00	0.22		C
ATOM	3211	OH	TYR L 116	-4.317	7.504	9.570	1.00	0.22		O
ATOM	3213	CZ	TYR L 116	-3.184	7.005	9.016	1.00	0.22		C
ATOM	3214	N	THR L 117	2.843	2.795	8.311	1.00	0.12		N
ATOM	3216	CA	THR L 117	3.834	1.757	8.033	1.00	0.12		C
ATOM	3218	C	THR L 117	3.196	0.415	7.683	1.00	0.12		C
ATOM	3219	CB	THR L 117	4.783	1.611	9.230	1.00	0.12		C
ATOM	3221	O	THR L 117	2.271	-0.063	8.347	1.00	0.12		O
ATOM	3222	CG2	THR L 117	5.825	2.730	9.248	1.00	0.12		C
ATOM	3226	OG1	THR L 117	4.069	1.681	10.449	1.00	0.12		O
ATOM	3228	N	PHE L 118	3.727	-0.206	6.630	1.00	0.15		N
ATOM	3230	CA	PHE L 118	3.449	-1.587	6.248	1.00	0.15		C
ATOM	3232	C	PHE L 118	4.392	-2.552	6.973	1.00	0.15		C
ATOM	3233	CB	PHE L 118	3.582	-1.740	4.728	1.00	0.15		C
ATOM	3236	O	PHE L 118	5.435	-2.150	7.497	1.00	0.15		O
ATOM	3237	CG	PHE L 118	2.580	-0.934	3.920	1.00	0.15		C
ATOM	3238	CD1	PHE L 118	2.827	0.422	3.626	1.00	0.15		C
ATOM	3240	CD2	PHE L 118	1.416	-1.553	3.425	1.00	0.15		C
ATOM	3242	CE1	PHE L 118	1.921	1.152	2.838	1.00	0.15		C
ATOM	3244	CE2	PHE L 118	0.508	-0.823	2.638	1.00	0.15		C
ATOM	3246	CZ	PHE L 118	0.766	0.526	2.340	1.00	0.15		C
ATOM	3248	N	GLY L 119	4.029	-3.832	6.990	1.00	0.17		N
ATOM	3250	CA	GLY L 119	4.963	-4.904	7.305	1.00	0.17		C
ATOM	3253	C	GLY L 119	5.837	-5.300	6.118	1.00	0.17		C
ATOM	3254	O	GLY L 119	5.655	-4.825	5.000	1.00	0.17		O
ATOM	3255	N	GLY L 120	6.796	-6.196	6.361	1.00	0.22		N

ATOM	3257	CA	GLY L 120	7.704	-6.694	5.317	1.00	0.22	C
ATOM	3260	C	GLY L 120	7.037	-7.596	4.270	1.00	0.22	C
ATOM	3261	O	GLY L 120	7.624	-7.852	3.222	1.00	0.22	O
ATOM	3262	N	GLY L 121	5.806	-8.042	4.527	1.00	0.22	N
ATOM	3264	CA	GLY L 121	5.097	-9.003	3.694	1.00	0.22	C
ATOM	3267	C	GLY L 121	5.406	-10.458	4.055	1.00	0.22	C
ATOM	3268	O	GLY L 121	6.448	-10.775	4.624	1.00	0.22	O
ATOM	3269	N	THR L 122	4.480	-11.348	3.704	1.00	0.25	N
ATOM	3271	CA	THR L 122	4.610	-12.801	3.860	1.00	0.25	C
ATOM	3273	C	THR L 122	4.052	-13.472	2.613	1.00	0.25	C
ATOM	3274	CB	THR L 122	3.855	-13.305	5.099	1.00	0.25	C
ATOM	3276	O	THR L 122	2.849	-13.393	2.356	1.00	0.25	O
ATOM	3277	CG2	THR L 122	4.024	-14.811	5.313	1.00	0.25	C
ATOM	3281	OG1	THR L 122	4.295	-12.643	6.264	1.00	0.25	O
ATOM	3283	N	LYS L 123	4.911	-14.100	1.808	1.00	0.35	N
ATOM	3285	CA	LYS L 123	4.504	-14.806	0.585	1.00	0.35	C
ATOM	3287	C	LYS L 123	4.043	-16.238	0.865	1.00	0.35	C
ATOM	3288	CB	LYS L 123	5.638	-14.747	-0.448	1.00	0.35	C
ATOM	3291	O	LYS L 123	4.791	-17.018	1.444	1.00	0.35	O
ATOM	3292	CG	LYS L 123	5.139	-15.271	-1.804	1.00	0.35	C
ATOM	3295	CD	LYS L 123	6.243	-15.261	-2.864	1.00	0.35	C
ATOM	3298	CE	LYS L 123	5.721	-15.987	-4.112	1.00	0.35	C
ATOM	3301	NZ	LYS L 123	6.805	-16.704	-4.817	1.00	0.35	N
ATOM	3305	N	LEU L 124	2.843	-16.604	0.418	1.00	0.50	N
ATOM	3307	CA	LEU L 124	2.395	-17.998	0.407	1.00	0.50	C
ATOM	3309	C	LEU L 124	2.816	-18.683	-0.891	1.00	0.50	C
ATOM	3310	CB	LEU L 124	0.883	-18.098	0.645	1.00	0.50	C
ATOM	3313	O	LEU L 124	2.425	-18.256	-1.977	1.00	0.50	O
ATOM	3314	CG	LEU L 124	0.430	-17.450	1.965	1.00	0.50	C
ATOM	3316	CD1	LEU L 124	-1.019	-17.842	2.226	1.00	0.50	C
ATOM	3320	CD2	LEU L 124	1.272	-17.877	3.171	1.00	0.50	C
ATOM	3324	N	GLU L 125	3.611	-19.734	-0.743	1.00	0.40	N
ATOM	3326	CA	GLU L 125	4.019	-20.669	-1.789	1.00	0.40	C
ATOM	3328	C	GLU L 125	3.216	-21.969	-1.649	1.00	0.40	C
ATOM	3329	CB	GLU L 125	5.517	-21.011	-1.661	1.00	0.40	C
ATOM	3332	O	GLU L 125	2.840	-22.344	-0.540	1.00	0.40	O
ATOM	3333	CG	GLU L 125	6.501	-19.844	-1.493	1.00	0.40	C
ATOM	3336	CD	GLU L 125	6.722	-19.015	-2.760	1.00	0.40	C
ATOM	3337	OE1	GLU L 125	7.702	-18.236	-2.796	1.00	0.40	O
ATOM	3338	OE2	GLU L 125	5.919	-19.063	-3.722	1.00	0.40	O
ATOM	3339	N	ILE L 126	3.011	-22.704	-2.744	1.00	0.40	N
ATOM	3341	CA	ILE L 126	2.483	-24.076	-2.669	1.00	0.40	C
ATOM	3343	C	ILE L 126	3.534	-25.026	-2.053	1.00	0.40	C

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ATOM 3344 CB ILE L 126    1.958 -24.545 -4.048 1.00 0.40      C
ATOM 3346 O  ILE L 126    4.738 -24.808 -2.216 1.00 0.40      O
ATOM 3347 CG1 ILE L 126   0.796 -23.663 -4.561 1.00 0.40      C
ATOM 3350 CG2 ILE L 126   1.522 -26.022 -4.069 1.00 0.40      C
ATOM 3354 CD1 ILE L 126   -0.457 -23.628 -3.670 1.00 0.40      C
ATOM 3358 N  LYS L 127    3.079 -26.081 -1.368 1.00 0.41      N
ATOM 3360 CA LYS L 127   3.855 -27.290 -1.032 1.00 0.41      C
ATOM 3362 C  LYS L 127   3.121 -28.545 -1.504 1.00 0.41      C
ATOM 3363 CB LYS L 127   4.230 -27.322  0.466 1.00 0.41      C
ATOM 3366 O  LYS L 127   1.881 -28.447 -1.660 1.00 0.41      O
ATOM 3367 CG LYS L 127   3.336 -28.188  1.371 1.00 0.41      C
ATOM 3370 CD LYS L 127   3.612 -27.912  2.857 1.00 0.41      C
ATOM 3373 CE LYS L 127   2.818 -28.825  3.803 1.00 0.41      C
ATOM 3376 NZ LYS L 127   1.355 -28.579  3.764 1.00 0.41      N
ATOM 3380 OXT LYS L 127  3.802 -29.579 -1.642 1.00 0.41      O
TER 3381 LYS L 127
CONECT 319 1454
CONECT 1454 319
CONECT 2102 3079
CONECT 3079 2102
END
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{ ca gly H 16 B0.26 my_fv_model_1_1 } sky L 19.927, 14.237, -10.532

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{ ca leu H 28 B0.30 my_fv_model_1_} cyan L -15.558, 9.248, -7.765
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{ sg cys H 23 B0.20}L -4.037, 8.082, -8.710 { sg cys H 104 B0.09}L -3.011, 6.482, -8.019
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{ ca phe L 11 B0.42 my_fv_model_1_} sky L 5.549, -19.963, 3.868
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{ ca val L 13 B0.44 my_fv_model_1_} sky L 1.650, -24.565, 2.215
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{ ca arg L 18 B0.30 my_fv_model_1_} sky L -5.238, -23.626, 7.221
{ ca val L 19 B0.29 my_fv_model_1_} sky L -2.556, -20.889, 6.948
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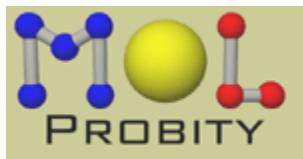
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{ ca gly L 121 B0.22 my_fv_model_1_} red L 5.097, -9.003, 3.694
{ ca thr L 122 B0.25 my_fv_model_1_} red L 4.610, -12.801, 3.860
{ ca lys L 123 B0.35 my_fv_model_1_} red L 4.504, -14.806, 0.585
{ ca leu L 124 B0.50 my_fv_model_1_} red L 2.395, -17.998, 0.407
{ ca glu L 125 B0.40 my_fv_model_1_} red L 4.019, -20.669, -1.789
{ ca ile L 126 B0.40 my_fv_model_1_} red L 2.483, -24.076, -2.669
{ ca lys L 127 B0.41 my_fv_model_1_} red L 3.855, -27.290, -1.032
@subgroup {-SS-}
@vectorlist {SS} color= yellow master= {-SS-}
{ ca cys L 23 B0.21}P 1.960, -9.265, 12.160 { cb cys L 23 B0.21}L 1.141, -8.433, 11.174

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{ sg cys L 23 B0.21}L 1.597, -6.688, 11.103 { sg cys L 104 B0.12}L 1.781, -6.308, 9.120
{ cb cys L 104 B0.12}L 0.075, -6.394, 8.534 { ca cys L 104 B0.12}L -0.161, -5.875, 7.116

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4.5.2



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REMARK ANTIBODY STRUCTURE MODELLED USING ABODYBUILDER2

REMARK STRUCTURE REFINED USING OPENMM 8.0, 2025-01-23

ATOM	1	N	GLU	H	1	-18.169	2.111	-11.086	1.00	0.29	N
ATOM	2	H	GLU	H	1	-18.881	1.418	-11.321	1.00	0.29	H
ATOM	3	H2	GLU	H	1	-18.546	2.743	-10.399	1.00	0.29	H
ATOM	4	H3	GLU	H	1	-17.920	2.615	-11.923	1.00	0.29	H
ATOM	5	CA	GLU	H	1	-16.966	1.417	-10.564	1.00	0.29	C
ATOM	6	HA	GLU	H	1	-17.222	0.933	-9.620	1.00	0.29	H
ATOM	7	C	GLU	H	1	-15.889	2.449	-10.307	1.00	0.29	C
ATOM	8	CB	GLU	H	1	-16.452	0.323	-11.526	1.00	0.29	C
ATOM	9	HB2	GLU	H	1	-15.429	0.059	-11.259	1.00	0.29	H
ATOM	10	HB3	GLU	H	1	-16.439	0.733	-12.536	1.00	0.29	H
ATOM	11	O	GLU	H	1	-15.790	3.392	-11.083	1.00	0.29	O
ATOM	12	CG	GLU	H	1	-17.285	-0.975	-11.517	1.00	0.29	C
ATOM	13	HG2	GLU	H	1	-17.144	-1.518	-12.453	1.00	0.29	H
ATOM	14	HG3	GLU	H	1	-16.928	-1.607	-10.703	1.00	0.29	H
ATOM	15	CD	GLU	H	1	-18.757	-0.657	-11.285	1.00	0.29	C
ATOM	16	OE1	GLU	H	1	-19.087	-0.492	-10.094	1.00	0.29	O
ATOM	17	OE2	GLU	H	1	-19.380	-0.089	-12.205	1.00	0.29	O
ATOM	18	N	VAL	H	2	-15.141	2.316	-9.212	1.00	0.31	N
ATOM	19	H	VAL	H	2	-15.248	1.490	-8.640	1.00	0.31	H
ATOM	20	CA	VAL	H	2	-14.022	3.209	-8.875	1.00	0.31	C
ATOM	21	HA	VAL	H	2	-14.204	4.202	-9.286	1.00	0.31	H
ATOM	22	C	VAL	H	2	-12.736	2.677	-9.498	1.00	0.31	C
ATOM	23	CB	VAL	H	2	-13.878	3.351	-7.348	1.00	0.31	C
ATOM	24	HB	VAL	H	2	-13.842	2.357	-6.909	1.00	0.31	H
ATOM	25	O	VAL	H	2	-12.399	1.511	-9.306	1.00	0.31	O
ATOM	26	CG1	VAL	H	2	-12.609	4.110	-6.933	1.00	0.31	C
ATOM	27	HG11	VAL	H	2	-11.724	3.540	-7.213	1.00	0.31	H
ATOM	28	HG12	VAL	H	2	-12.590	4.231	-5.851	1.00	0.31	H
ATOM	29	HG13	VAL	H	2	-12.577	5.085	-7.418	1.00	0.31	H
ATOM	30	CG2	VAL	H	2	-15.097	4.078	-6.766	1.00	0.31	C
ATOM	31	HG21	VAL	H	2	-16.009	3.530	-6.999	1.00	0.31	H
ATOM	32	HG22	VAL	H	2	-15.173	5.084	-7.181	1.00	0.31	H
ATOM	33	HG23	VAL	H	2	-15.009	4.133	-5.682	1.00	0.31	H

ATOM	34	N	GLN	H	3	-11.992	3.540	-10.189	1.00	0.16		N
ATOM	35	H	GLN	H	3	-12.341	4.482	-10.333	1.00	0.16		H
ATOM	36	CA	GLN	H	3	-10.679	3.204	-10.738	1.00	0.16		C
ATOM	37	HA	GLN	H	3	-10.245	2.410	-10.126	1.00	0.16		H
ATOM	38	C	GLN	H	3	-9.734	4.400	-10.666	1.00	0.16		C
ATOM	39	CB	GLN	H	3	-10.812	2.657	-12.174	1.00	0.16		C
ATOM	40	HB2	GLN	H	3	-11.315	1.690	-12.123	1.00	0.16		H
ATOM	41	HB3	GLN	H	3	-11.434	3.324	-12.768	1.00	0.16		H
ATOM	42	O	GLN	H	3	-10.059	5.497	-11.126	1.00	0.16		O
ATOM	43	CG	GLN	H	3	-9.451	2.485	-12.889	1.00	0.16		C
ATOM	44	HG2	GLN	H	3	-8.790	1.885	-12.263	1.00	0.16		H
ATOM	45	HG3	GLN	H	3	-8.992	3.462	-13.034	1.00	0.16		H
ATOM	46	CD	GLN	H	3	-9.541	1.816	-14.260	1.00	0.16		C
ATOM	47	NE2	GLN	H	3	-8.461	1.766	-15.012	1.00	0.16		N
ATOM	48	HE21	GLN	H	3	-7.573	2.144	-14.719	1.00	0.16		H
ATOM	49	HE22	GLN	H	3	-8.565	1.319	-15.903	1.00	0.16		H
ATOM	50	OE1	GLN	H	3	-10.569	1.326	-14.692	1.00	0.16		O
ATOM	51	N	LEU	H	4	-8.533	4.160	-10.143	1.00	0.25		N
ATOM	52	H	LEU	H	4	-8.330	3.223	-9.824	1.00	0.25		H
ATOM	53	CA	LEU	H	4	-7.390	5.054	-10.284	1.00	0.25		C
ATOM	54	HA	LEU	H	4	-7.730	6.071	-10.480	1.00	0.25		H
ATOM	55	C	LEU	H	4	-6.555	4.591	-11.486	1.00	0.25		C
ATOM	56	CB	LEU	H	4	-6.575	5.050	-8.978	1.00	0.25		C
ATOM	57	HB2	LEU	H	4	-5.730	5.723	-9.108	1.00	0.25		H
ATOM	58	HB3	LEU	H	4	-6.187	4.046	-8.827	1.00	0.25		H
ATOM	59	O	LEU	H	4	-6.201	3.417	-11.570	1.00	0.25		O
ATOM	60	CG	LEU	H	4	-7.340	5.441	-7.698	1.00	0.25		C
ATOM	61	HG	LEU	H	4	-8.090	4.681	-7.479	1.00	0.25		H
ATOM	62	CD1	LEU	H	4	-6.381	5.517	-6.510	1.00	0.25		C
ATOM	63	HD11	LEU	H	4	-5.868	4.564	-6.391	1.00	0.25		H
ATOM	64	HD12	LEU	H	4	-6.940	5.722	-5.599	1.00	0.25		H
ATOM	65	HD13	LEU	H	4	-5.644	6.303	-6.666	1.00	0.25		H
ATOM	66	CD2	LEU	H	4	-8.041	6.793	-7.826	1.00	0.25		C
ATOM	67	HD21	LEU	H	4	-8.857	6.710	-8.542	1.00	0.25		H
ATOM	68	HD22	LEU	H	4	-8.459	7.090	-6.864	1.00	0.25		H
ATOM	69	HD23	LEU	H	4	-7.332	7.547	-8.167	1.00	0.25		H
ATOM	70	N	GLN	H	5	-6.255	5.497	-12.415	1.00	0.24		N
ATOM	71	H	GLN	H	5	-6.551	6.458	-12.269	1.00	0.24		H
ATOM	72	CA	GLN	H	5	-5.519	5.200	-13.643	1.00	0.24		C
ATOM	73	HA	GLN	H	5	-5.201	4.156	-13.626	1.00	0.24		H
ATOM	74	C	GLN	H	5	-4.264	6.064	-13.723	1.00	0.24		C
ATOM	75	CB	GLN	H	5	-6.446	5.392	-14.859	1.00	0.24		C
ATOM	76	HB2	GLN	H	5	-6.848	6.407	-14.860	1.00	0.24		H

ATOM	77	HB3	GLN	H	5	-7.281	4.697	-14.771	1.00	0.24		H
ATOM	78	O	GLN	H	5	-4.335	7.225	-14.108	1.00	0.24		O
ATOM	79	CG	GLN	H	5	-5.729	5.130	-16.195	1.00	0.24		C
ATOM	80	HG2	GLN	H	5	-5.017	5.931	-16.398	1.00	0.24		H
ATOM	81	HG3	GLN	H	5	-6.463	5.126	-17.000	1.00	0.24		H
ATOM	82	CD	GLN	H	5	-5.004	3.790	-16.194	1.00	0.24		C
ATOM	83	NE2	GLN	H	5	-3.693	3.774	-16.303	1.00	0.24		N
ATOM	84	HE21	GLN	H	5	-3.151	4.629	-16.343	1.00	0.24		H
ATOM	85	HE22	GLN	H	5	-3.249	2.878	-16.218	1.00	0.24		H
ATOM	86	OE1	GLN	H	5	-5.604	2.739	-16.038	1.00	0.24		O
ATOM	87	N	GLN	H	6	-3.111	5.507	-13.361	1.00	0.18		N
ATOM	88	H	GLN	H	6	-3.100	4.519	-13.121	1.00	0.18		H
ATOM	89	CA	GLN	H	6	-1.852	6.250	-13.311	1.00	0.18		C
ATOM	90	HA	GLN	H	6	-2.070	7.243	-12.923	1.00	0.18		H
ATOM	91	C	GLN	H	6	-1.201	6.442	-14.683	1.00	0.18		C
ATOM	92	CB	GLN	H	6	-0.853	5.583	-12.358	1.00	0.18		C
ATOM	93	HB2	GLN	H	6	0.016	6.236	-12.295	1.00	0.18		H
ATOM	94	HB3	GLN	H	6	-0.533	4.622	-12.758	1.00	0.18		H
ATOM	95	O	GLN	H	6	-1.485	5.701	-15.632	1.00	0.18		O
ATOM	96	CG	GLN	H	6	-1.411	5.383	-10.946	1.00	0.18		C
ATOM	97	HG2	GLN	H	6	-2.266	4.709	-10.980	1.00	0.18		H
ATOM	98	HG3	GLN	H	6	-1.737	6.352	-10.575	1.00	0.18		H
ATOM	99	CD	GLN	H	6	-0.392	4.817	-9.964	1.00	0.18		C
ATOM	100	NE2	GLN	H	6	0.887	5.069	-10.119	1.00	0.18		N
ATOM	101	HE21	GLN	H	6	1.239	5.495	-10.971	1.00	0.18		H
ATOM	102	HE22	GLN	H	6	1.535	4.682	-9.445	1.00	0.18		H
ATOM	103	OE1	GLN	H	6	-0.740	4.108	-9.034	1.00	0.18		O
ATOM	104	N	SER	H	7	-0.270	7.397	-14.745	1.00	0.17		N
ATOM	105	H	SER	H	7	-0.109	7.954	-13.910	1.00	0.17		H
ATOM	106	CA	SER	H	7	0.653	7.600	-15.864	1.00	0.17		C
ATOM	107	HA	SER	H	7	0.060	7.819	-16.751	1.00	0.17		H
ATOM	108	C	SER	H	7	1.519	6.366	-16.160	1.00	0.17		C
ATOM	109	CB	SER	H	7	1.550	8.814	-15.576	1.00	0.17		C
ATOM	110	HB2	SER	H	7	0.931	9.706	-15.523	1.00	0.17		H
ATOM	111	HB3	SER	H	7	2.261	8.943	-16.392	1.00	0.17		H
ATOM	112	O	SER	H	7	1.781	5.537	-15.283	1.00	0.17		O
ATOM	113	OG	SER	H	7	2.261	8.679	-14.355	1.00	0.17		O
ATOM	114	HG	SER	H	7	2.908	7.968	-14.460	1.00	0.17		H
ATOM	115	N	GLY	H	8	1.989	6.277	-17.409	1.00	0.20		N
ATOM	116	H	GLY	H	8	1.763	7.013	-18.058	1.00	0.20		H
ATOM	117	CA	GLY	H	8	2.905	5.229	-17.869	1.00	0.20		C
ATOM	118	HA2	GLY	H	8	2.441	4.258	-17.699	1.00	0.20		H
ATOM	119	HA3	GLY	H	8	3.078	5.344	-18.938	1.00	0.20		H

ATOM	120	C	GLY	H	8	4.266	5.245	-17.165	1.00	0.20	C
ATOM	121	O	GLY	H	8	4.587	6.184	-16.439	1.00	0.20	O
ATOM	122	N	ALA	H	9	5.038	4.174	-17.368	1.00	0.19	N
ATOM	123	H	ALA	H	9	4.730	3.473	-18.019	1.00	0.19	H
ATOM	124	CA	ALA	H	9	6.365	4.006	-16.782	1.00	0.19	C
ATOM	125	HA	ALA	H	9	6.271	4.081	-15.699	1.00	0.19	H
ATOM	126	C	ALA	H	9	7.352	5.095	-17.235	1.00	0.19	C
ATOM	127	CB	ALA	H	9	6.888	2.606	-17.124	1.00	0.19	C
ATOM	128	HB1	ALA	H	9	7.000	2.505	-18.205	1.00	0.19	H
ATOM	129	HB2	ALA	H	9	6.198	1.847	-16.753	1.00	0.19	H
ATOM	130	HB3	ALA	H	9	7.862	2.458	-16.654	1.00	0.19	H
ATOM	131	O	ALA	H	9	7.289	5.571	-18.367	1.00	0.19	O
ATOM	132	N	GLU	H	11	8.282	5.431	-16.346	1.00	0.20	N
ATOM	133	H	GLU	H	11	8.304	4.925	-15.467	1.00	0.20	H
ATOM	134	CA	GLU	H	11	9.255	6.510	-16.504	1.00	0.20	C
ATOM	135	HA	GLU	H	11	9.117	6.971	-17.484	1.00	0.20	H
ATOM	136	C	GLU	H	11	10.700	5.999	-16.461	1.00	0.20	C
ATOM	137	CB	GLU	H	11	9.009	7.580	-15.424	1.00	0.20	C
ATOM	138	HB2	GLU	H	11	9.961	7.974	-15.069	1.00	0.20	H
ATOM	139	HB3	GLU	H	11	8.506	7.129	-14.565	1.00	0.20	H
ATOM	140	O	GLU	H	11	11.037	5.069	-15.717	1.00	0.20	O
ATOM	141	CG	GLU	H	11	8.170	8.753	-15.946	1.00	0.20	C
ATOM	142	HG2	GLU	H	11	7.765	9.288	-15.083	1.00	0.20	H
ATOM	143	HG3	GLU	H	11	7.324	8.372	-16.523	1.00	0.20	H
ATOM	144	CD	GLU	H	11	9.008	9.721	-16.800	1.00	0.20	C
ATOM	145	OE1	GLU	H	11	10.011	9.263	-17.400	1.00	0.20	O
ATOM	146	OE2	GLU	H	11	8.656	10.923	-16.810	1.00	0.20	O
ATOM	147	N	LEU	H	12	11.569	6.646	-17.239	1.00	0.23	N
ATOM	148	H	LEU	H	12	11.229	7.487	-17.707	1.00	0.23	H
ATOM	149	CA	LEU	H	12	12.990	6.313	-17.371	1.00	0.23	C
ATOM	150	HA	LEU	H	12	13.296	5.744	-16.493	1.00	0.23	H
ATOM	151	C	LEU	H	12	13.817	7.600	-17.400	1.00	0.23	C
ATOM	152	CB	LEU	H	12	13.209	5.421	-18.609	1.00	0.23	C
ATOM	153	HB2	LEU	H	12	12.674	4.483	-18.456	1.00	0.23	H
ATOM	154	HB3	LEU	H	12	12.769	5.922	-19.473	1.00	0.23	H
ATOM	155	O	LEU	H	12	13.986	8.237	-18.439	1.00	0.23	O
ATOM	156	CG	LEU	H	12	14.686	5.111	-18.932	1.00	0.23	C
ATOM	157	HG	LEU	H	12	15.223	6.035	-19.145	1.00	0.23	H
ATOM	158	CD1	LEU	H	12	15.411	4.384	-17.797	1.00	0.23	C
ATOM	159	HD11	LEU	H	12	14.900	3.448	-17.575	1.00	0.23	H
ATOM	160	HD12	LEU	H	12	15.436	5.009	-16.904	1.00	0.23	H
ATOM	161	HD13	LEU	H	12	16.437	4.168	-18.092	1.00	0.23	H
ATOM	162	CD2	LEU	H	12	14.766	4.228	-20.178	1.00	0.23	C

ATOM	163	HD21	LEU	H	12	14.256	3.282	-19.998	1.00	0.23		H
ATOM	164	HD22	LEU	H	12	15.809	4.035	-20.429	1.00	0.23		H
ATOM	165	HD23	LEU	H	12	14.291	4.739	-21.016	1.00	0.23		H
ATOM	166	N	VAL	H	13	14.354	7.971	-16.241	1.00	0.28		N
ATOM	167	H	VAL	H	13	14.276	7.337	-15.451	1.00	0.28		H
ATOM	168	CA	VAL	H	13	14.910	9.307	-16.000	1.00	0.28		C
ATOM	169	HA	VAL	H	13	14.893	9.860	-16.939	1.00	0.28		H
ATOM	170	C	VAL	H	13	16.366	9.256	-15.553	1.00	0.28		C
ATOM	171	CB	VAL	H	13	14.039	10.109	-15.020	1.00	0.28		C
ATOM	172	HB	VAL	H	13	14.463	11.110	-14.931	1.00	0.28		H
ATOM	173	O	VAL	H	13	16.843	8.275	-14.984	1.00	0.28		O
ATOM	174	CG1	VAL	H	13	12.603	10.266	-15.531	1.00	0.28		C
ATOM	175	HG11	VAL	H	13	12.603	10.646	-16.554	1.00	0.28		H
ATOM	176	HG12	VAL	H	13	12.082	9.308	-15.525	1.00	0.28		H
ATOM	177	HG13	VAL	H	13	12.053	10.966	-14.906	1.00	0.28		H
ATOM	178	CG2	VAL	H	13	14.008	9.487	-13.627	1.00	0.28		C
ATOM	179	HG21	VAL	H	13	13.282	10.032	-13.034	1.00	0.28		H
ATOM	180	HG22	VAL	H	13	14.990	9.558	-13.158	1.00	0.28		H
ATOM	181	HG23	VAL	H	13	13.704	8.441	-13.679	1.00	0.28		H
ATOM	182	N	LYS	H	14	17.096	10.336	-15.831	1.00	0.29		N
ATOM	183	H	LYS	H	14	16.634	11.123	-16.259	1.00	0.29		H
ATOM	184	CA	LYS	H	14	18.508	10.468	-15.458	1.00	0.29		C
ATOM	185	HA	LYS	H	14	18.991	9.508	-15.627	1.00	0.29		H
ATOM	186	C	LYS	H	14	18.659	10.762	-13.962	1.00	0.29		C
ATOM	187	CB	LYS	H	14	19.197	11.533	-16.335	1.00	0.29		C
ATOM	188	HB2	LYS	H	14	18.737	12.501	-16.130	1.00	0.29		H
ATOM	189	HB3	LYS	H	14	20.248	11.602	-16.052	1.00	0.29		H
ATOM	190	O	LYS	H	14	17.827	11.442	-13.362	1.00	0.29		O
ATOM	191	CG	LYS	H	14	19.114	11.273	-17.855	1.00	0.29		C
ATOM	192	HG2	LYS	H	14	19.553	12.125	-18.376	1.00	0.29		H
ATOM	193	HG3	LYS	H	14	18.066	11.227	-18.154	1.00	0.29		H
ATOM	194	CD	LYS	H	14	19.842	9.995	-18.317	1.00	0.29		C
ATOM	195	HD2	LYS	H	14	20.718	10.263	-18.913	1.00	0.29		H
ATOM	196	HD3	LYS	H	14	20.212	9.452	-17.453	1.00	0.29		H
ATOM	197	CE	LYS	H	14	18.919	9.083	-19.144	1.00	0.29		C
ATOM	198	HE2	LYS	H	14	18.797	9.517	-20.140	1.00	0.29		H
ATOM	199	HE3	LYS	H	14	17.938	9.048	-18.662	1.00	0.29		H
ATOM	200	NZ	LYS	H	14	19.460	7.705	-19.244	1.00	0.29		N
ATOM	201	HZ1	LYS	H	14	19.538	7.283	-18.319	1.00	0.29		H
ATOM	202	HZ2	LYS	H	14	20.439	7.713	-19.554	1.00	0.29		H
ATOM	203	HZ3	LYS	H	14	18.932	7.088	-19.839	1.00	0.29		H
ATOM	204	N	ALA	H	15	19.750	10.287	-13.363	1.00	0.32		N
ATOM	205	H	ALA	H	15	20.406	9.752	-13.906	1.00	0.32		H

ATOM	206	CA	ALA H	15	20.119	10.677	-12.003	1.00	0.32	C
ATOM	207	HA	ALA H	15	19.304	10.400	-11.332	1.00	0.32	H
ATOM	208	C	ALA H	15	20.313	12.205	-11.904	1.00	0.32	C
ATOM	209	CB	ALA H	15	21.370	9.900	-11.582	1.00	0.32	C
ATOM	210	HB1	ALA H	15	22.209	10.164	-12.228	1.00	0.32	H
ATOM	211	HB2	ALA H	15	21.624	10.147	-10.550	1.00	0.32	H
ATOM	212	HB3	ALA H	15	21.182	8.828	-11.652	1.00	0.32	H
ATOM	213	O	ALA H	15	20.733	12.853	-12.862	1.00	0.32	O
ATOM	214	N	GLY H	16	19.958	12.790	-10.761	1.00	0.26	N
ATOM	215	H	GLY H	16	19.643	12.193	-10.002	1.00	0.26	H
ATOM	216	CA	GLY H	16	19.927	14.237	-10.532	1.00	0.26	C
ATOM	217	HA2	GLY H	16	19.929	14.424	-9.458	1.00	0.26	H
ATOM	218	HA3	GLY H	16	20.828	14.681	-10.956	1.00	0.26	H
ATOM	219	C	GLY H	16	18.720	14.966	-11.140	1.00	0.26	C
ATOM	220	O	GLY H	16	18.433	16.087	-10.725	1.00	0.26	O
ATOM	221	N	ALA H	17	17.983	14.351	-12.074	1.00	0.30	N
ATOM	222	H	ALA H	17	18.255	13.427	-12.383	1.00	0.30	H
ATOM	223	CA	ALA H	17	16.775	14.937	-12.655	1.00	0.30	C
ATOM	224	HA	ALA H	17	16.993	15.975	-12.910	1.00	0.30	H
ATOM	225	C	ALA H	17	15.590	14.946	-11.663	1.00	0.30	C
ATOM	226	CB	ALA H	17	16.445	14.198	-13.962	1.00	0.30	C
ATOM	227	HB1	ALA H	17	15.699	14.753	-14.531	1.00	0.30	H
ATOM	228	HB2	ALA H	17	16.048	13.207	-13.740	1.00	0.30	H
ATOM	229	HB3	ALA H	17	17.343	14.101	-14.573	1.00	0.30	H
ATOM	230	O	ALA H	17	15.720	14.613	-10.482	1.00	0.30	O
ATOM	231	N	SER H	18	14.417	15.347	-12.155	1.00	0.23	N
ATOM	232	H	SER H	18	14.356	15.529	-13.148	1.00	0.23	H
ATOM	233	CA	SER H	18	13.142	15.318	-11.430	1.00	0.23	C
ATOM	234	HA	SER H	18	13.230	14.669	-10.559	1.00	0.23	H
ATOM	235	C	SER H	18	12.044	14.755	-12.331	1.00	0.23	C
ATOM	236	CB	SER H	18	12.752	16.722	-10.954	1.00	0.23	C
ATOM	237	HB2	SER H	18	11.814	16.665	-10.400	1.00	0.23	H
ATOM	238	HB3	SER H	18	12.612	17.373	-11.819	1.00	0.23	H
ATOM	239	O	SER H	18	12.118	14.907	-13.548	1.00	0.23	O
ATOM	240	OG	SER H	18	13.755	17.265	-10.113	1.00	0.23	O
ATOM	241	HG	SER H	18	14.582	17.271	-10.609	1.00	0.23	H
ATOM	242	N	VAL H	19	11.020	14.148	-11.735	1.00	0.18	N
ATOM	243	H	VAL H	19	11.017	14.105	-10.719	1.00	0.18	H
ATOM	244	CA	VAL H	19	9.894	13.511	-12.437	1.00	0.18	C
ATOM	245	HA	VAL H	19	9.875	13.870	-13.467	1.00	0.18	H
ATOM	246	C	VAL H	19	8.570	13.913	-11.780	1.00	0.18	C
ATOM	247	CB	VAL H	19	10.106	11.983	-12.484	1.00	0.18	C
ATOM	248	HB	VAL H	19	11.140	11.796	-12.777	1.00	0.18	H

ATOM	249	O	VAL	H	19	8.554	14.299	-10.606	1.00	0.18	O
ATOM	250	CG1	VAL	H	19	9.867	11.310	-11.127	1.00	0.18	C
ATOM	251	HG11	VAL	H	19	10.495	11.777	-10.373	1.00	0.18	H
ATOM	252	HG12	VAL	H	19	10.133	10.258	-11.198	1.00	0.18	H
ATOM	253	HG13	VAL	H	19	8.822	11.387	-10.829	1.00	0.18	H
ATOM	254	CG2	VAL	H	19	9.214	11.306	-13.520	1.00	0.18	C
ATOM	255	HG21	VAL	H	19	8.166	11.349	-13.236	1.00	0.18	H
ATOM	256	HG22	VAL	H	19	9.348	11.787	-14.490	1.00	0.18	H
ATOM	257	HG23	VAL	H	19	9.508	10.263	-13.625	1.00	0.18	H
ATOM	258	N	LYS	H	20	7.450	13.832	-12.511	1.00	0.25	N
ATOM	259	H	LYS	H	20	7.520	13.506	-13.469	1.00	0.25	H
ATOM	260	CA	LYS	H	20	6.112	14.076	-11.951	1.00	0.25	C
ATOM	261	HA	LYS	H	20	6.178	13.905	-10.879	1.00	0.25	H
ATOM	262	C	LYS	H	20	5.076	13.079	-12.467	1.00	0.25	C
ATOM	263	CB	LYS	H	20	5.701	15.544	-12.150	1.00	0.25	C
ATOM	264	HB2	LYS	H	20	5.486	15.745	-13.201	1.00	0.25	H
ATOM	265	HB3	LYS	H	20	6.532	16.177	-11.835	1.00	0.25	H
ATOM	266	O	LYS	H	20	4.503	13.255	-13.537	1.00	0.25	O
ATOM	267	CG	LYS	H	20	4.471	15.862	-11.281	1.00	0.25	C
ATOM	268	HG2	LYS	H	20	4.607	15.402	-10.302	1.00	0.25	H
ATOM	269	HG3	LYS	H	20	3.575	15.437	-11.738	1.00	0.25	H
ATOM	270	CD	LYS	H	20	4.280	17.370	-11.076	1.00	0.25	C
ATOM	271	HD2	LYS	H	20	5.236	17.807	-10.787	1.00	0.25	H
ATOM	272	HD3	LYS	H	20	3.944	17.835	-12.005	1.00	0.25	H
ATOM	273	CE	LYS	H	20	3.253	17.595	-9.959	1.00	0.25	C
ATOM	274	HE2	LYS	H	20	3.406	16.831	-9.192	1.00	0.25	H
ATOM	275	HE3	LYS	H	20	2.246	17.458	-10.366	1.00	0.25	H
ATOM	276	NZ	LYS	H	20	3.384	18.931	-9.331	1.00	0.25	N
ATOM	277	HZ1	LYS	H	20	3.181	19.663	-9.994	1.00	0.25	H
ATOM	278	HZ2	LYS	H	20	4.337	19.071	-8.988	1.00	0.25	H
ATOM	279	HZ3	LYS	H	20	2.736	18.998	-8.549	1.00	0.25	H
ATOM	280	N	LEU	H	21	4.833	12.049	-11.663	1.00	0.19	N
ATOM	281	H	LEU	H	21	5.271	12.060	-10.751	1.00	0.19	H
ATOM	282	CA	LEU	H	21	3.858	10.991	-11.925	1.00	0.19	C
ATOM	283	HA	LEU	H	21	3.947	10.682	-12.969	1.00	0.19	H
ATOM	284	C	LEU	H	21	2.434	11.521	-11.697	1.00	0.19	C
ATOM	285	CB	LEU	H	21	4.157	9.773	-11.022	1.00	0.19	C
ATOM	286	HB2	LEU	H	21	3.784	9.992	-10.020	1.00	0.19	H
ATOM	287	HB3	LEU	H	21	3.596	8.919	-11.404	1.00	0.19	H
ATOM	288	O	LEU	H	21	2.226	12.375	-10.827	1.00	0.19	O
ATOM	289	CG	LEU	H	21	5.647	9.381	-10.890	1.00	0.19	C
ATOM	290	HG	LEU	H	21	6.188	10.188	-10.396	1.00	0.19	H
ATOM	291	CD1	LEU	H	21	5.780	8.136	-10.017	1.00	0.19	C

ATOM	292	HD11	LEU	H	21	5.323	8.316	-9.046	1.00	0.19		H
ATOM	293	HD12	LEU	H	21	6.834	7.899	-9.868	1.00	0.19		H
ATOM	294	HD13	LEU	H	21	5.290	7.290	-10.496	1.00	0.19		H
ATOM	295	CD2	LEU	H	21	6.323	9.097	-12.232	1.00	0.19		C
ATOM	296	HD21	LEU	H	21	6.285	9.975	-12.873	1.00	0.19		H
ATOM	297	HD22	LEU	H	21	7.368	8.831	-12.073	1.00	0.19		H
ATOM	298	HD23	LEU	H	21	5.825	8.277	-12.741	1.00	0.19		H
ATOM	299	N	SER	H	22	1.448	11.003	-12.432	1.00	0.17		N
ATOM	300	H	SER	H	22	1.665	10.272	-13.104	1.00	0.17		H
ATOM	301	CA	SER	H	22	0.037	11.382	-12.272	1.00	0.17		C
ATOM	302	HA	SER	H	22	-0.048	12.053	-11.419	1.00	0.17		H
ATOM	303	C	SER	H	22	-0.856	10.181	-11.958	1.00	0.17		C
ATOM	304	CB	SER	H	22	-0.471	12.179	-13.480	1.00	0.17		C
ATOM	305	HB2	SER	H	22	-1.403	12.675	-13.207	1.00	0.17		H
ATOM	306	HB3	SER	H	22	0.263	12.941	-13.744	1.00	0.17		H
ATOM	307	O	SER	H	22	-0.540	9.032	-12.265	1.00	0.17		O
ATOM	308	OG	SER	H	22	-0.711	11.349	-14.597	1.00	0.17		O
ATOM	309	HG	SER	H	22	-0.997	11.896	-15.336	1.00	0.17		H
ATOM	310	N	CYS	H	23	-1.980	10.470	-11.310	1.00	0.20		N
ATOM	311	H	CYS	H	23	-2.109	11.431	-11.013	1.00	0.20		H
ATOM	312	CA	CYS	H	23	-3.021	9.530	-10.919	1.00	0.20		C
ATOM	313	HA	CYS	H	23	-2.985	8.643	-11.551	1.00	0.20		H
ATOM	314	C	CYS	H	23	-4.406	10.175	-11.102	1.00	0.20		C
ATOM	315	CB	CYS	H	23	-2.752	9.099	-9.476	1.00	0.20		C
ATOM	316	HB2	CYS	H	23	-2.629	9.992	-8.863	1.00	0.20		H
ATOM	317	HB3	CYS	H	23	-1.812	8.546	-9.456	1.00	0.20		H
ATOM	318	O	CYS	H	23	-4.983	10.712	-10.148	1.00	0.20		O
ATOM	319	SG	CYS	H	23	-4.037	8.082	-8.710	1.00	0.20		S
ATOM	320	N	PRO	H	24	-4.923	10.180	-12.341	1.00	0.25		N
ATOM	321	CA	PRO	H	24	-6.339	10.361	-12.620	1.00	0.25		C
ATOM	322	HA	PRO	H	24	-6.626	11.379	-12.361	1.00	0.25		H
ATOM	323	C	PRO	H	24	-7.220	9.374	-11.853	1.00	0.25		C
ATOM	324	CB	PRO	H	24	-6.476	10.167	-14.132	1.00	0.25		C
ATOM	325	HB2	PRO	H	24	-7.311	10.742	-14.535	1.00	0.25		H
ATOM	326	HB3	PRO	H	24	-6.593	9.107	-14.367	1.00	0.25		H
ATOM	327	O	PRO	H	24	-6.962	8.170	-11.847	1.00	0.25		O
ATOM	328	CG	PRO	H	24	-5.136	10.654	-14.677	1.00	0.25		C
ATOM	329	HG2	PRO	H	24	-5.165	11.736	-14.810	1.00	0.25		H
ATOM	330	HG3	PRO	H	24	-4.880	10.160	-15.614	1.00	0.25		H
ATOM	331	CD	PRO	H	24	-4.143	10.301	-13.570	1.00	0.25		C
ATOM	332	HD2	PRO	H	24	-3.619	9.379	-13.795	1.00	0.25		H
ATOM	333	HD3	PRO	H	24	-3.408	11.100	-13.489	1.00	0.25		H
ATOM	334	N	ALA	H	25	-8.280	9.876	-11.226	1.00	0.33		N

ATOM	335	H	ALA H	25	-8.413	10.882	-11.216	1.00	0.33		H
ATOM	336	CA	ALA H	25	-9.328	9.056	-10.633	1.00	0.33		C
ATOM	337	HA	ALA H	25	-8.992	8.020	-10.579	1.00	0.33		H
ATOM	338	C	ALA H	25	-10.604	9.087	-11.482	1.00	0.33		C
ATOM	339	CB	ALA H	25	-9.589	9.532	-9.205	1.00	0.33		C
ATOM	340	HB1	ALA H	25	-10.012	10.533	-9.235	1.00	0.33		H
ATOM	341	HB2	ALA H	25	-8.655	9.556	-8.642	1.00	0.33		H
ATOM	342	HB3	ALA H	25	-10.293	8.862	-8.712	1.00	0.33		H
ATOM	343	O	ALA H	25	-10.957	10.100	-12.091	1.00	0.33		O
ATOM	344	N	SER H	26	-11.336	7.981	-11.461	1.00	0.24		N
ATOM	345	H	SER H	26	-10.977	7.182	-10.948	1.00	0.24		H
ATOM	346	CA	SER H	26	-12.613	7.797	-12.144	1.00	0.24		C
ATOM	347	HA	SER H	26	-13.051	8.774	-12.350	1.00	0.24		H
ATOM	348	C	SER H	26	-13.584	7.028	-11.245	1.00	0.24		C
ATOM	349	CB	SER H	26	-12.381	7.097	-13.486	1.00	0.24		C
ATOM	350	HB2	SER H	26	-11.647	7.656	-14.068	1.00	0.24		H
ATOM	351	HB3	SER H	26	-13.316	7.057	-14.046	1.00	0.24		H
ATOM	352	O	SER H	26	-13.177	6.310	-10.327	1.00	0.24		O
ATOM	353	OG	SER H	26	-11.916	5.784	-13.274	1.00	0.24		O
ATOM	354	HG	SER H	26	-11.145	5.805	-12.685	1.00	0.24		H
ATOM	355	N	GLY H	27	-14.884	7.238	-11.459	1.00	0.46		N
ATOM	356	H	GLY H	27	-15.156	7.816	-12.238	1.00	0.46		H
ATOM	357	CA	GLY H	27	-15.945	6.666	-10.622	1.00	0.46		C
ATOM	358	HA2	GLY H	27	-15.678	5.643	-10.379	1.00	0.46		H
ATOM	359	HA3	GLY H	27	-16.878	6.654	-11.183	1.00	0.46		H
ATOM	360	C	GLY H	27	-16.200	7.379	-9.289	1.00	0.46		C
ATOM	361	O	GLY H	27	-17.154	7.032	-8.600	1.00	0.46		O
ATOM	362	N	LEU H	28	-15.385	8.377	-8.932	1.00	0.30		N
ATOM	363	H	LEU H	28	-14.614	8.599	-9.543	1.00	0.30		H
ATOM	364	CA	LEU H	28	-15.558	9.248	-7.765	1.00	0.30		C
ATOM	365	HA	LEU H	28	-16.616	9.497	-7.667	1.00	0.30		H
ATOM	366	C	LEU H	28	-14.800	10.568	-7.943	1.00	0.30		C
ATOM	367	CB	LEU H	28	-15.125	8.516	-6.484	1.00	0.30		C
ATOM	368	HB2	LEU H	28	-15.210	9.201	-5.639	1.00	0.30		H
ATOM	369	HB3	LEU H	28	-15.855	7.722	-6.317	1.00	0.30		H
ATOM	370	O	LEU H	28	-13.973	10.684	-8.850	1.00	0.30		O
ATOM	371	CG	LEU H	28	-13.722	7.881	-6.476	1.00	0.30		C
ATOM	372	HG	LEU H	28	-13.618	7.190	-7.310	1.00	0.30		H
ATOM	373	CD1	LEU H	28	-12.543	8.860	-6.480	1.00	0.30		C
ATOM	374	HD11	LEU H	28	-12.688	9.634	-5.725	1.00	0.30		H
ATOM	375	HD12	LEU H	28	-12.439	9.318	-7.460	1.00	0.30		H
ATOM	376	HD13	LEU H	28	-11.614	8.330	-6.272	1.00	0.30		H
ATOM	377	CD2	LEU H	28	-13.618	7.094	-5.178	1.00	0.30		C

ATOM	378	HD21	LEU	H	28	-12.692	6.529	-5.199	1.00	0.30		H
ATOM	379	HD22	LEU	H	28	-13.637	7.801	-4.351	1.00	0.30		H
ATOM	380	HD23	LEU	H	28	-14.450	6.395	-5.096	1.00	0.30		H
ATOM	381	N	ASN	H	29	-15.054	11.549	-7.076	1.00	0.39		N
ATOM	382	H	ASN	H	29	-15.717	11.397	-6.324	1.00	0.39		H
ATOM	383	CA	ASN	H	29	-14.268	12.780	-7.020	1.00	0.39		C
ATOM	384	HA	ASN	H	29	-13.827	12.950	-8.001	1.00	0.39		H
ATOM	385	C	ASN	H	29	-13.145	12.646	-5.981	1.00	0.39		C
ATOM	386	CB	ASN	H	29	-15.136	14.009	-6.690	1.00	0.39		C
ATOM	387	HB2	ASN	H	29	-15.189	14.129	-5.613	1.00	0.39		H
ATOM	388	HB3	ASN	H	29	-14.655	14.897	-7.091	1.00	0.39		H
ATOM	389	O	ASN	H	29	-13.388	12.245	-4.846	1.00	0.39		O
ATOM	390	CG	ASN	H	29	-16.558	13.969	-7.210	1.00	0.39		C
ATOM	391	ND2	ASN	H	29	-17.480	13.459	-6.431	1.00	0.39		N
ATOM	392	HD21	ASN	H	29	-17.219	13.144	-5.485	1.00	0.39		H
ATOM	393	HD22	ASN	H	29	-18.428	13.464	-6.744	1.00	0.39		H
ATOM	394	OD1	ASN	H	29	-16.845	14.429	-8.302	1.00	0.39		O
ATOM	395	N	ILE	H	30	-11.927	13.085	-6.300	1.00	0.19		N
ATOM	396	H	ILE	H	30	-11.746	13.372	-7.258	1.00	0.19		H
ATOM	397	CA	ILE	H	30	-10.833	13.125	-5.311	1.00	0.19		C
ATOM	398	HA	ILE	H	30	-10.844	12.172	-4.779	1.00	0.19		H
ATOM	399	C	ILE	H	30	-11.035	14.203	-4.233	1.00	0.19		C
ATOM	400	CB	ILE	H	30	-9.445	13.239	-5.978	1.00	0.19		C
ATOM	401	HB	ILE	H	30	-8.711	13.093	-5.186	1.00	0.19		H
ATOM	402	O	ILE	H	30	-10.316	14.206	-3.244	1.00	0.19		O
ATOM	403	CG1	ILE	H	30	-9.179	14.624	-6.609	1.00	0.19		C
ATOM	404	HG12	ILE	H	30	-9.414	15.402	-5.887	1.00	0.19		H
ATOM	405	HG13	ILE	H	30	-9.823	14.763	-7.477	1.00	0.19		H
ATOM	406	CG2	ILE	H	30	-9.238	12.104	-6.990	1.00	0.19		C
ATOM	407	HG21	ILE	H	30	-9.832	12.292	-7.883	1.00	0.19		H
ATOM	408	HG22	ILE	H	30	-9.537	11.153	-6.548	1.00	0.19		H
ATOM	409	HG23	ILE	H	30	-8.189	12.030	-7.275	1.00	0.19		H
ATOM	410	CD1	ILE	H	30	-7.718	14.821	-7.030	1.00	0.19		C
ATOM	411	HD11	ILE	H	30	-7.061	14.658	-6.176	1.00	0.19		H
ATOM	412	HD12	ILE	H	30	-7.583	15.837	-7.398	1.00	0.19		H
ATOM	413	HD13	ILE	H	30	-7.454	14.124	-7.823	1.00	0.19		H
ATOM	414	N	LYS	H	35	-12.001	15.121	-4.394	1.00	0.23		N
ATOM	415	H	LYS	H	35	-12.594	15.022	-5.202	1.00	0.23		H
ATOM	416	CA	LYS	H	35	-12.400	16.081	-3.342	1.00	0.23		C
ATOM	417	HA	LYS	H	35	-11.549	16.694	-3.044	1.00	0.23		H
ATOM	418	C	LYS	H	35	-12.891	15.364	-2.077	1.00	0.23		C
ATOM	419	CB	LYS	H	35	-13.549	16.978	-3.838	1.00	0.23		C
ATOM	420	HB2	LYS	H	35	-13.846	17.634	-3.016	1.00	0.23		H

ATOM	421	HB3	LYS	H	35	-14.407	16.348	-4.081	1.00	0.23		H
ATOM	422	O	LYS	H	35	-12.718	15.873	-0.976	1.00	0.23		O
ATOM	423	CG	LYS	H	35	-13.220	17.848	-5.057	1.00	0.23		C
ATOM	424	HG2	LYS	H	35	-12.946	17.211	-5.898	1.00	0.23		H
ATOM	425	HG3	LYS	H	35	-12.388	18.501	-4.802	1.00	0.23		H
ATOM	426	CD	LYS	H	35	-14.432	18.713	-5.441	1.00	0.23		C
ATOM	427	HD2	LYS	H	35	-14.697	19.327	-4.577	1.00	0.23		H
ATOM	428	HD3	LYS	H	35	-15.287	18.074	-5.670	1.00	0.23		H
ATOM	429	CE	LYS	H	35	-14.148	19.654	-6.623	1.00	0.23		C
ATOM	430	HE2	LYS	H	35	-14.933	20.415	-6.645	1.00	0.23		H
ATOM	431	HE3	LYS	H	35	-13.199	20.170	-6.442	1.00	0.23		H
ATOM	432	NZ	LYS	H	35	-14.111	18.946	-7.929	1.00	0.23		N
ATOM	433	HZ1	LYS	H	35	-13.339	18.292	-7.982	1.00	0.23		H
ATOM	434	HZ2	LYS	H	35	-14.971	18.449	-8.117	1.00	0.23		H
ATOM	435	HZ3	LYS	H	35	-13.928	19.591	-8.688	1.00	0.23		H
ATOM	436	N	ASP	H	36	-13.500	14.197	-2.263	1.00	0.41		N
ATOM	437	H	ASP	H	36	-13.627	13.890	-3.216	1.00	0.41		H
ATOM	438	CA	ASP	H	36	-14.258	13.461	-1.254	1.00	0.41		C
ATOM	439	HA	ASP	H	36	-14.791	14.178	-0.629	1.00	0.41		H
ATOM	440	C	ASP	H	36	-13.350	12.612	-0.341	1.00	0.41		C
ATOM	441	CB	ASP	H	36	-15.305	12.564	-1.964	1.00	0.41		C
ATOM	442	HB2	ASP	H	36	-14.792	11.667	-2.314	1.00	0.41		H
ATOM	443	HB3	ASP	H	36	-16.044	12.248	-1.227	1.00	0.41		H
ATOM	444	O	ASP	H	36	-13.812	12.047	0.650	1.00	0.41		O
ATOM	445	CG	ASP	H	36	-16.047	13.170	-3.178	1.00	0.41		C
ATOM	446	OD1	ASP	H	36	-16.088	14.412	-3.330	1.00	0.41		O
ATOM	447	OD2	ASP	H	36	-16.559	12.386	-4.013	1.00	0.41		O
ATOM	448	N	THR	H	37	-12.062	12.477	-0.687	1.00	0.34		N
ATOM	449	H	THR	H	37	-11.729	13.011	-1.479	1.00	0.34		H
ATOM	450	CA	THR	H	37	-11.143	11.496	-0.093	1.00	0.34		C
ATOM	451	HA	THR	H	37	-11.443	11.324	0.938	1.00	0.34		H
ATOM	452	C	THR	H	37	-9.694	11.962	-0.082	1.00	0.34		C
ATOM	453	CB	THR	H	37	-11.185	10.153	-0.839	1.00	0.34		C
ATOM	454	HB	THR	H	37	-10.454	9.488	-0.381	1.00	0.34		H
ATOM	455	O	THR	H	37	-9.256	12.724	-0.939	1.00	0.34		O
ATOM	456	CG2	THR	H	37	-12.545	9.461	-0.774	1.00	0.34		C
ATOM	457	HG21	THR	H	37	-12.434	8.426	-1.072	1.00	0.34		H
ATOM	458	HG22	THR	H	37	-13.252	9.959	-1.438	1.00	0.34		H
ATOM	459	HG23	THR	H	37	-12.931	9.492	0.244	1.00	0.34		H
ATOM	460	OG1	THR	H	37	-10.849	10.311	-2.201	1.00	0.34		O
ATOM	461	HG1	THR	H	37	-10.190	11.012	-2.265	1.00	0.34		H
ATOM	462	N	TYR	H	38	-8.895	11.421	0.832	1.00	0.24		N
ATOM	463	H	TYR	H	38	-9.251	10.677	1.421	1.00	0.24		H

ATOM	464	CA	TYR	H	38	-7.453	11.634	0.830	1.00	0.24	C
ATOM	465	HA	TYR	H	38	-7.254	12.678	0.591	1.00	0.24	H
ATOM	466	C	TYR	H	38	-6.767	10.788	-0.245	1.00	0.24	C
ATOM	467	CB	TYR	H	38	-6.896	11.346	2.227	1.00	0.24	C
ATOM	468	HB2	TYR	H	38	-5.824	11.521	2.204	1.00	0.24	H
ATOM	469	HB3	TYR	H	38	-7.043	10.286	2.442	1.00	0.24	H
ATOM	470	O	TYR	H	38	-7.022	9.590	-0.382	1.00	0.24	O
ATOM	471	CG	TYR	H	38	-7.509	12.161	3.361	1.00	0.24	C
ATOM	472	CD1	TYR	H	38	-8.034	13.456	3.139	1.00	0.24	C
ATOM	473	HD1	TYR	H	38	-8.015	13.901	2.155	1.00	0.24	H
ATOM	474	CD2	TYR	H	38	-7.578	11.601	4.652	1.00	0.24	C
ATOM	475	HD2	TYR	H	38	-7.204	10.598	4.830	1.00	0.24	H
ATOM	476	CE1	TYR	H	38	-8.641	14.173	4.187	1.00	0.24	C
ATOM	477	HE1	TYR	H	38	-9.054	15.157	4.001	1.00	0.24	H
ATOM	478	CE2	TYR	H	38	-8.178	12.318	5.706	1.00	0.24	C
ATOM	479	HE2	TYR	H	38	-8.257	11.878	6.691	1.00	0.24	H
ATOM	480	OH	TYR	H	38	-9.249	14.315	6.496	1.00	0.24	O
ATOM	481	HH	TYR	H	38	-9.856	14.991	6.180	1.00	0.24	H
ATOM	482	CZ	TYR	H	38	-8.721	13.601	5.472	1.00	0.24	C
ATOM	483	N	MET	H	39	-5.852	11.418	-0.981	1.00	0.18	N
ATOM	484	H	MET	H	39	-5.681	12.399	-0.792	1.00	0.18	H
ATOM	485	CA	MET	H	39	-5.030	10.758	-1.995	1.00	0.18	C
ATOM	486	HA	MET	H	39	-5.454	9.779	-2.231	1.00	0.18	H
ATOM	487	C	MET	H	39	-3.628	10.529	-1.435	1.00	0.18	C
ATOM	488	CB	MET	H	39	-5.019	11.575	-3.295	1.00	0.18	C
ATOM	489	HB2	MET	H	39	-4.674	12.586	-3.082	1.00	0.18	H
ATOM	490	HB3	MET	H	39	-4.322	11.118	-3.998	1.00	0.18	H
ATOM	491	O	MET	H	39	-2.851	11.471	-1.250	1.00	0.18	O
ATOM	492	CG	MET	H	39	-6.408	11.658	-3.947	1.00	0.18	C
ATOM	493	HG2	MET	H	39	-6.343	12.308	-4.819	1.00	0.18	H
ATOM	494	HG3	MET	H	39	-7.096	12.129	-3.243	1.00	0.18	H
ATOM	495	SD	MET	H	39	-7.139	10.079	-4.473	1.00	0.18	S
ATOM	496	CE	MET	H	39	-6.048	9.618	-5.847	1.00	0.18	C
ATOM	497	HE1	MET	H	39	-6.065	10.395	-6.612	1.00	0.18	H
ATOM	498	HE2	MET	H	39	-6.398	8.683	-6.284	1.00	0.18	H
ATOM	499	HE3	MET	H	39	-5.030	9.477	-5.486	1.00	0.18	H
ATOM	500	N	HIS	H	40	-3.332	9.272	-1.126	1.00	0.18	N
ATOM	501	H	HIS	H	40	-4.011	8.554	-1.369	1.00	0.18	H
ATOM	502	CA	HIS	H	40	-2.047	8.794	-0.633	1.00	0.18	C
ATOM	503	HA	HIS	H	40	-1.548	9.599	-0.100	1.00	0.18	H
ATOM	504	C	HIS	H	40	-1.146	8.376	-1.803	1.00	0.18	C
ATOM	505	CB	HIS	H	40	-2.280	7.638	0.363	1.00	0.18	C
ATOM	506	HB2	HIS	H	40	-1.316	7.190	0.606	1.00	0.18	H

ATOM	507	HB3	HIS	H	40	-2.888	6.866	-0.111	1.00	0.18		H
ATOM	508	O	HIS	H	40	-1.632	7.995	-2.869	1.00	0.18		O
ATOM	509	CG	HIS	H	40	-2.946	8.059	1.658	1.00	0.18		C
ATOM	510	CD2	HIS	H	40	-4.155	8.690	1.814	1.00	0.18		C
ATOM	511	HD2	HIS	H	40	-4.836	8.965	1.021	1.00	0.18		H
ATOM	512	ND1	HIS	H	40	-2.450	7.847	2.925	1.00	0.18		N
ATOM	513	HD1	HIS	H	40	-1.665	7.252	3.160	1.00	0.18		H
ATOM	514	CE1	HIS	H	40	-3.303	8.386	3.811	1.00	0.18		C
ATOM	515	HE1	HIS	H	40	-3.185	8.352	4.886	1.00	0.18		H
ATOM	516	NE2	HIS	H	40	-4.347	8.939	3.179	1.00	0.18		N
ATOM	517	N	TRP	H	41	0.168	8.418	-1.587	1.00	0.16		N
ATOM	518	H	TRP	H	41	0.501	8.763	-0.693	1.00	0.16		H
ATOM	519	CA	TRP	H	41	1.159	7.811	-2.478	1.00	0.16		C
ATOM	520	HA	TRP	H	41	0.642	7.193	-3.212	1.00	0.16		H
ATOM	521	C	TRP	H	41	2.084	6.882	-1.685	1.00	0.16		C
ATOM	522	CB	TRP	H	41	1.929	8.884	-3.254	1.00	0.16		C
ATOM	523	HB2	TRP	H	41	2.295	9.641	-2.560	1.00	0.16		H
ATOM	524	HB3	TRP	H	41	2.799	8.401	-3.694	1.00	0.16		H
ATOM	525	O	TRP	H	41	2.478	7.196	-0.556	1.00	0.16		O
ATOM	526	CG	TRP	H	41	1.185	9.550	-4.377	1.00	0.16		C
ATOM	527	CD1	TRP	H	41	0.357	10.613	-4.258	1.00	0.16		C
ATOM	528	HD1	TRP	H	41	0.115	11.100	-3.323	1.00	0.16		H
ATOM	529	CD2	TRP	H	41	1.174	9.201	-5.800	1.00	0.16		C
ATOM	530	CE2	TRP	H	41	0.369	10.154	-6.496	1.00	0.16		C
ATOM	531	CE3	TRP	H	41	1.799	8.204	-6.582	1.00	0.16		C
ATOM	532	HE3	TRP	H	41	2.409	7.459	-6.094	1.00	0.16		H
ATOM	533	NE1	TRP	H	41	-0.121	10.976	-5.504	1.00	0.16		N
ATOM	534	HE1	TRP	H	41	-0.752	11.748	-5.654	1.00	0.16		H
ATOM	535	CH2	TRP	H	41	0.858	9.136	-8.638	1.00	0.16		C
ATOM	536	HH2	TRP	H	41	0.750	9.097	-9.715	1.00	0.16		H
ATOM	537	CZ2	TRP	H	41	0.214	10.138	-7.891	1.00	0.16		C
ATOM	538	HZ2	TRP	H	41	-0.391	10.882	-8.386	1.00	0.16		H
ATOM	539	CZ3	TRP	H	41	1.639	8.168	-7.982	1.00	0.16		C
ATOM	540	HZ3	TRP	H	41	2.123	7.390	-8.559	1.00	0.16		H
ATOM	541	N	VAL	H	42	2.412	5.735	-2.279	1.00	0.18		N
ATOM	542	H	VAL	H	42	2.054	5.568	-3.217	1.00	0.18		H
ATOM	543	CA	VAL	H	42	3.161	4.632	-1.661	1.00	0.18		C
ATOM	544	HA	VAL	H	42	3.669	5.000	-0.773	1.00	0.18		H
ATOM	545	C	VAL	H	42	4.218	4.124	-2.643	1.00	0.18		C
ATOM	546	CB	VAL	H	42	2.214	3.488	-1.229	1.00	0.18		C
ATOM	547	HB	VAL	H	42	1.686	3.115	-2.106	1.00	0.18		H
ATOM	548	O	VAL	H	42	3.895	3.780	-3.779	1.00	0.18		O
ATOM	549	CG1	VAL	H	42	2.974	2.316	-0.596	1.00	0.18		C

ATOM	550	HG11	VAL	H	42	3.540	2.653	0.272	1.00	0.18		H
ATOM	551	HG12	VAL	H	42	2.272	1.544	-0.284	1.00	0.18		H
ATOM	552	HG13	VAL	H	42	3.658	1.875	-1.319	1.00	0.18		H
ATOM	553	CG2	VAL	H	42	1.167	3.958	-0.207	1.00	0.18		C
ATOM	554	HG21	VAL	H	42	0.530	3.119	0.079	1.00	0.18		H
ATOM	555	HG22	VAL	H	42	0.529	4.723	-0.647	1.00	0.18		H
ATOM	556	HG23	VAL	H	42	1.661	4.354	0.679	1.00	0.18		H
ATOM	557	N	LYS	H	43	5.479	4.078	-2.215	1.00	0.15		N
ATOM	558	H	LYS	H	43	5.645	4.313	-1.239	1.00	0.15		H
ATOM	559	CA	LYS	H	43	6.604	3.493	-2.958	1.00	0.15		C
ATOM	560	HA	LYS	H	43	6.456	3.645	-4.029	1.00	0.15		H
ATOM	561	C	LYS	H	43	6.669	1.984	-2.697	1.00	0.15		C
ATOM	562	CB	LYS	H	43	7.889	4.221	-2.520	1.00	0.15		C
ATOM	563	HB2	LYS	H	43	7.725	5.293	-2.589	1.00	0.15		H
ATOM	564	HB3	LYS	H	43	8.070	3.983	-1.477	1.00	0.15		H
ATOM	565	O	LYS	H	43	6.317	1.533	-1.610	1.00	0.15		O
ATOM	566	CG	LYS	H	43	9.165	3.893	-3.312	1.00	0.15		C
ATOM	567	HG2	LYS	H	43	8.996	4.092	-4.369	1.00	0.15		H
ATOM	568	HG3	LYS	H	43	9.406	2.838	-3.188	1.00	0.15		H
ATOM	569	CD	LYS	H	43	10.333	4.760	-2.800	1.00	0.15		C
ATOM	570	HD2	LYS	H	43	10.305	4.780	-1.713	1.00	0.15		H
ATOM	571	HD3	LYS	H	43	10.208	5.781	-3.159	1.00	0.15		H
ATOM	572	CE	LYS	H	43	11.702	4.222	-3.234	1.00	0.15		C
ATOM	573	HE2	LYS	H	43	11.757	3.169	-2.948	1.00	0.15		H
ATOM	574	HE3	LYS	H	43	11.789	4.291	-4.321	1.00	0.15		H
ATOM	575	NZ	LYS	H	43	12.816	4.958	-2.586	1.00	0.15		N
ATOM	576	HZ1	LYS	H	43	12.850	4.820	-1.584	1.00	0.15		H
ATOM	577	HZ2	LYS	H	43	13.737	4.640	-2.906	1.00	0.15		H
ATOM	578	HZ3	LYS	H	43	12.812	5.947	-2.771	1.00	0.15		H
ATOM	579	N	GLN	H	44	7.129	1.213	-3.675	1.00	0.15		N
ATOM	580	H	GLN	H	44	7.260	1.638	-4.586	1.00	0.15		H
ATOM	581	CA	GLN	H	44	7.465	-0.201	-3.543	1.00	0.15		C
ATOM	582	HA	GLN	H	44	7.675	-0.411	-2.496	1.00	0.15		H
ATOM	583	C	GLN	H	44	8.715	-0.518	-4.353	1.00	0.15		C
ATOM	584	CB	GLN	H	44	6.297	-1.086	-3.993	1.00	0.15		C
ATOM	585	HB2	GLN	H	44	5.994	-0.802	-5.002	1.00	0.15		H
ATOM	586	HB3	GLN	H	44	5.464	-0.912	-3.321	1.00	0.15		H
ATOM	587	O	GLN	H	44	8.715	-0.451	-5.585	1.00	0.15		O
ATOM	588	CG	GLN	H	44	6.651	-2.584	-3.981	1.00	0.15		C
ATOM	589	HG2	GLN	H	44	7.187	-2.826	-3.066	1.00	0.15		H
ATOM	590	HG3	GLN	H	44	7.305	-2.819	-4.820	1.00	0.15		H
ATOM	591	CD	GLN	H	44	5.417	-3.467	-4.075	1.00	0.15		C
ATOM	592	NE2	GLN	H	44	5.179	-4.328	-3.111	1.00	0.15		N

ATOM	593	HE21	GLN	H	44	4.346	-4.909	-3.176	1.00	0.15		H
ATOM	594	HE22	GLN	H	44	5.806	-4.405	-2.330	1.00	0.15		H
ATOM	595	OE1	GLN	H	44	4.648	-3.397	-5.025	1.00	0.15		O
ATOM	596	N	ARG	H	45	9.777	-0.901	-3.657	1.00	0.28		N
ATOM	597	H	ARG	H	45	9.690	-0.954	-2.648	1.00	0.28		H
ATOM	598	CA	ARG	H	45	10.989	-1.443	-4.272	1.00	0.28		C
ATOM	599	HA	ARG	H	45	11.100	-1.023	-5.271	1.00	0.28		H
ATOM	600	C	ARG	H	45	10.901	-2.964	-4.424	1.00	0.28		C
ATOM	601	CB	ARG	H	45	12.192	-1.019	-3.427	1.00	0.28		C
ATOM	602	HB2	ARG	H	45	11.951	-1.119	-2.370	1.00	0.28		H
ATOM	603	HB3	ARG	H	45	13.056	-1.648	-3.653	1.00	0.28		H
ATOM	604	O	ARG	H	45	10.138	-3.608	-3.699	1.00	0.28		O
ATOM	605	CG	ARG	H	45	12.548	0.433	-3.747	1.00	0.28		C
ATOM	606	HG2	ARG	H	45	11.678	1.079	-3.622	1.00	0.28		H
ATOM	607	HG3	ARG	H	45	12.880	0.486	-4.783	1.00	0.28		H
ATOM	608	CD	ARG	H	45	13.679	0.921	-2.854	1.00	0.28		C
ATOM	609	HD2	ARG	H	45	14.420	0.129	-2.743	1.00	0.28		H
ATOM	610	HD3	ARG	H	45	14.164	1.761	-3.356	1.00	0.28		H
ATOM	611	NE	ARG	H	45	13.196	1.384	-1.538	1.00	0.28		N
ATOM	612	HE	ARG	H	45	12.196	1.552	-1.413	1.00	0.28		H
ATOM	613	NH1	ARG	H	45	15.258	1.684	-0.632	1.00	0.28		N
ATOM	614	HH11	ARG	H	45	15.540	0.761	-0.945	1.00	0.28		H
ATOM	615	HH12	ARG	H	45	15.866	2.333	-0.140	1.00	0.28		H
ATOM	616	NH2	ARG	H	45	13.598	2.965	0.060	1.00	0.28		N
ATOM	617	HH21	ARG	H	45	12.604	3.183	0.170	1.00	0.28		H
ATOM	618	HH22	ARG	H	45	14.328	3.568	0.439	1.00	0.28		H
ATOM	619	CZ	ARG	H	45	14.000	1.989	-0.693	1.00	0.28		C
ATOM	620	N	PRO	H	46	11.702	-3.565	-5.324	1.00	1.03		N
ATOM	621	CA	PRO	H	46	12.053	-4.975	-5.202	1.00	1.03		C
ATOM	622	HA	PRO	H	46	11.167	-5.584	-5.382	1.00	1.03		H
ATOM	623	C	PRO	H	46	12.600	-5.228	-3.793	1.00	1.03		C
ATOM	624	CB	PRO	H	46	13.111	-5.247	-6.280	1.00	1.03		C
ATOM	625	HB2	PRO	H	46	14.111	-5.201	-5.845	1.00	1.03		H
ATOM	626	HB3	PRO	H	46	12.955	-6.212	-6.762	1.00	1.03		H
ATOM	627	O	PRO	H	46	13.263	-4.357	-3.234	1.00	1.03		O
ATOM	628	CG	PRO	H	46	12.940	-4.090	-7.265	1.00	1.03		C
ATOM	629	HG2	PRO	H	46	13.870	-3.861	-7.787	1.00	1.03		H
ATOM	630	HG3	PRO	H	46	12.147	-4.326	-7.976	1.00	1.03		H
ATOM	631	CD	PRO	H	46	12.497	-2.938	-6.367	1.00	1.03		C
ATOM	632	HD2	PRO	H	46	13.371	-2.458	-5.923	1.00	1.03		H
ATOM	633	HD3	PRO	H	46	11.916	-2.215	-6.941	1.00	1.03		H
ATOM	634	N	GLU	H	47	12.312	-6.395	-3.221	1.00	1.92		N
ATOM	635	H	GLU	H	47	11.778	-7.053	-3.761	1.00	1.92		H

ATOM	636	CA	GLU H	47	12.653	-6.789	-1.840	1.00	1.92	C
ATOM	637	HA	GLU H	47	12.334	-7.822	-1.703	1.00	1.92	H
ATOM	638	C	GLU H	47	11.956	-5.975	-0.728	1.00	1.92	C
ATOM	639	CB	GLU H	47	14.175	-6.764	-1.594	1.00	1.92	C
ATOM	640	HB2	GLU H	47	14.445	-5.722	-1.454	1.00	1.92	H
ATOM	641	HB3	GLU H	47	14.378	-7.275	-0.651	1.00	1.92	H
ATOM	642	O	GLU H	47	11.299	-6.549	0.135	1.00	1.92	O
ATOM	643	CG	GLU H	47	15.102	-7.349	-2.671	1.00	1.92	C
ATOM	644	HG2	GLU H	47	14.811	-6.984	-3.658	1.00	1.92	H
ATOM	645	HG3	GLU H	47	14.993	-8.437	-2.669	1.00	1.92	H
ATOM	646	CD	GLU H	47	16.569	-6.950	-2.425	1.00	1.92	C
ATOM	647	OE1	GLU H	47	16.807	-5.843	-1.878	1.00	1.92	O
ATOM	648	OE2	GLU H	47	17.445	-7.755	-2.807	1.00	1.92	O
ATOM	649	N	GLN H	48	12.112	-4.650	-0.723	1.00	1.43	N
ATOM	650	H	GLN H	48	12.605	-4.263	-1.522	1.00	1.43	H
ATOM	651	CA	GLN H	48	12.063	-3.809	0.482	1.00	1.43	C
ATOM	652	HA	GLN H	48	12.447	-4.409	1.307	1.00	1.43	H
ATOM	653	C	GLN H	48	10.658	-3.370	0.949	1.00	1.43	C
ATOM	654	CB	GLN H	48	13.047	-2.635	0.291	1.00	1.43	C
ATOM	655	HB2	GLN H	48	12.809	-2.131	-0.642	1.00	1.43	H
ATOM	656	HB3	GLN H	48	12.930	-1.912	1.099	1.00	1.43	H
ATOM	657	O	GLN H	48	10.538	-2.555	1.862	1.00	1.43	O
ATOM	658	CG	GLN H	48	14.526	-3.097	0.269	1.00	1.43	C
ATOM	659	HG2	GLN H	48	14.966	-2.914	1.250	1.00	1.43	H
ATOM	660	HG3	GLN H	48	14.586	-4.170	0.102	1.00	1.43	H
ATOM	661	CD	GLN H	48	15.392	-2.398	-0.783	1.00	1.43	C
ATOM	662	NE2	GLN H	48	16.202	-3.109	-1.538	1.00	1.43	N
ATOM	663	HE21	GLN H	48	16.275	-4.135	-1.488	1.00	1.43	H
ATOM	664	HE22	GLN H	48	16.753	-2.628	-2.217	1.00	1.43	H
ATOM	665	OE1	GLN H	48	15.392	-1.180	-0.921	1.00	1.43	O
ATOM	666	N	GLY H	49	9.591	-3.936	0.385	1.00	0.51	N
ATOM	667	H	GLY H	49	9.760	-4.610	-0.347	1.00	0.51	H
ATOM	668	CA	GLY H	49	8.222	-3.741	0.874	1.00	0.51	C
ATOM	669	HA2	GLY H	49	7.611	-4.589	0.567	1.00	0.51	H
ATOM	670	HA3	GLY H	49	8.236	-3.721	1.964	1.00	0.51	H
ATOM	671	C	GLY H	49	7.542	-2.466	0.369	1.00	0.51	C
ATOM	672	O	GLY H	49	7.745	-2.062	-0.774	1.00	0.51	O
ATOM	673	N	LEU H	50	6.659	-1.893	1.193	1.00	0.33	N
ATOM	674	H	LEU H	50	6.601	-2.241	2.139	1.00	0.33	H
ATOM	675	CA	LEU H	50	5.794	-0.756	0.855	1.00	0.33	C
ATOM	676	HA	LEU H	50	6.013	-0.427	-0.161	1.00	0.33	H
ATOM	677	C	LEU H	50	6.062	0.430	1.796	1.00	0.33	C
ATOM	678	CB	LEU H	50	4.320	-1.204	0.912	1.00	0.33	C

ATOM	679	HB2	LEU	H	50	4.180	-1.757	1.840	1.00	0.33		H
ATOM	680	HB3	LEU	H	50	3.675	-0.326	0.952	1.00	0.33		H
ATOM	681	O	LEU	H	50	6.075	0.280	3.018	1.00	0.33		O
ATOM	682	CG	LEU	H	50	3.881	-2.090	-0.270	1.00	0.33		C
ATOM	683	HG	LEU	H	50	4.718	-2.703	-0.605	1.00	0.33		H
ATOM	684	CD1	LEU	H	50	2.739	-3.020	0.138	1.00	0.33		C
ATOM	685	HD11	LEU	H	50	2.458	-3.648	-0.708	1.00	0.33		H
ATOM	686	HD12	LEU	H	50	1.878	-2.439	0.467	1.00	0.33		H
ATOM	687	HD13	LEU	H	50	3.071	-3.663	0.951	1.00	0.33		H
ATOM	688	CD2	LEU	H	50	3.381	-1.238	-1.437	1.00	0.33		C
ATOM	689	HD21	LEU	H	50	4.120	-0.473	-1.670	1.00	0.33		H
ATOM	690	HD22	LEU	H	50	3.222	-1.871	-2.310	1.00	0.33		H
ATOM	691	HD23	LEU	H	50	2.445	-0.751	-1.172	1.00	0.33		H
ATOM	692	N	GLU	H	51	6.244	1.619	1.226	1.00	0.22		N
ATOM	693	H	GLU	H	51	6.231	1.649	0.210	1.00	0.22		H
ATOM	694	CA	GLU	H	51	6.739	2.815	1.917	1.00	0.22		C
ATOM	695	HA	GLU	H	51	6.811	2.607	2.985	1.00	0.22		H
ATOM	696	C	GLU	H	51	5.746	3.972	1.711	1.00	0.22		C
ATOM	697	CB	GLU	H	51	8.164	3.207	1.431	1.00	0.22		C
ATOM	698	HB2	GLU	H	51	8.677	3.705	2.254	1.00	0.22		H
ATOM	699	HB3	GLU	H	51	8.065	3.950	0.646	1.00	0.22		H
ATOM	700	O	GLU	H	51	5.587	4.469	0.593	1.00	0.22		O
ATOM	701	CG	GLU	H	51	9.076	2.078	0.888	1.00	0.22		C
ATOM	702	HG2	GLU	H	51	9.449	1.490	1.729	1.00	0.22		H
ATOM	703	HG3	GLU	H	51	8.505	1.410	0.242	1.00	0.22		H
ATOM	704	CD	GLU	H	51	10.260	2.596	0.049	1.00	0.22		C
ATOM	705	OE1	GLU	H	51	10.552	2.021	-1.025	1.00	0.22		O
ATOM	706	OE2	GLU	H	51	10.930	3.579	0.438	1.00	0.22		O
ATOM	707	N	TRP	H	52	5.041	4.416	2.758	1.00	0.23		N
ATOM	708	H	TRP	H	52	5.189	4.009	3.669	1.00	0.23		H
ATOM	709	CA	TRP	H	52	4.114	5.548	2.634	1.00	0.23		C
ATOM	710	HA	TRP	H	52	3.534	5.415	1.722	1.00	0.23		H
ATOM	711	C	TRP	H	52	4.865	6.879	2.506	1.00	0.23		C
ATOM	712	CB	TRP	H	52	3.115	5.567	3.794	1.00	0.23		C
ATOM	713	HB2	TRP	H	52	3.672	5.592	4.732	1.00	0.23		H
ATOM	714	HB3	TRP	H	52	2.534	4.645	3.771	1.00	0.23		H
ATOM	715	O	TRP	H	52	5.543	7.316	3.432	1.00	0.23		O
ATOM	716	CG	TRP	H	52	2.166	6.728	3.781	1.00	0.23		C
ATOM	717	CD1	TRP	H	52	1.139	6.892	2.916	1.00	0.23		C
ATOM	718	HD1	TRP	H	52	0.884	6.192	2.127	1.00	0.23		H
ATOM	719	CD2	TRP	H	52	2.201	7.945	4.590	1.00	0.23		C
ATOM	720	CE2	TRP	H	52	1.095	8.765	4.221	1.00	0.23		C
ATOM	721	CE3	TRP	H	52	3.068	8.453	5.580	1.00	0.23		C

ATOM	722	HE3	TRP	H	52	3.955	7.885	5.828	1.00	0.23		H
ATOM	723	NE1	TRP	H	52	0.525	8.106	3.153	1.00	0.23		N
ATOM	724	HE1	TRP	H	52	-0.129	8.527	2.502	1.00	0.23		H
ATOM	725	CH2	TRP	H	52	1.693	10.456	5.848	1.00	0.23		C
ATOM	726	HH2	TRP	H	52	1.518	11.407	6.331	1.00	0.23		H
ATOM	727	CZ2	TRP	H	52	0.819	9.990	4.850	1.00	0.23		C
ATOM	728	HZ2	TRP	H	52	-0.032	10.578	4.550	1.00	0.23		H
ATOM	729	CZ3	TRP	H	52	2.825	9.698	6.194	1.00	0.23		C
ATOM	730	HZ3	TRP	H	52	3.527	10.081	6.925	1.00	0.23		H
ATOM	731	N	ILE	H	53	4.718	7.540	1.356	1.00	0.21		N
ATOM	732	H	ILE	H	53	4.134	7.124	0.640	1.00	0.21		H
ATOM	733	CA	ILE	H	53	5.397	8.807	1.046	1.00	0.21		C
ATOM	734	HA	ILE	H	53	6.415	8.772	1.434	1.00	0.21		H
ATOM	735	C	ILE	H	53	4.678	9.977	1.720	1.00	0.21		C
ATOM	736	CB	ILE	H	53	5.454	9.016	-0.487	1.00	0.21		C
ATOM	737	HB	ILE	H	53	4.429	9.058	-0.859	1.00	0.21		H
ATOM	738	O	ILE	H	53	5.295	10.883	2.283	1.00	0.21		O
ATOM	739	CG1	ILE	H	53	6.164	7.833	-1.183	1.00	0.21		C
ATOM	740	HG12	ILE	H	53	7.214	7.805	-0.890	1.00	0.21		H
ATOM	741	HG13	ILE	H	53	5.705	6.893	-0.878	1.00	0.21		H
ATOM	742	CG2	ILE	H	53	6.136	10.348	-0.856	1.00	0.21		C
ATOM	743	HG21	ILE	H	53	6.110	10.505	-1.933	1.00	0.21		H
ATOM	744	HG22	ILE	H	53	5.627	11.191	-0.390	1.00	0.21		H
ATOM	745	HG23	ILE	H	53	7.173	10.332	-0.522	1.00	0.21		H
ATOM	746	CD1	ILE	H	53	6.065	7.889	-2.708	1.00	0.21		C
ATOM	747	HD11	ILE	H	53	5.036	8.077	-3.010	1.00	0.21		H
ATOM	748	HD12	ILE	H	53	6.721	8.664	-3.106	1.00	0.21		H
ATOM	749	HD13	ILE	H	53	6.372	6.929	-3.110	1.00	0.21		H
ATOM	750	N	GLY	H	54	3.349	9.978	1.623	1.00	0.20		N
ATOM	751	H	GLY	H	54	2.902	9.185	1.180	1.00	0.20		H
ATOM	752	CA	GLY	H	54	2.513	11.072	2.083	1.00	0.20		C
ATOM	753	HA2	GLY	H	54	2.934	12.014	1.735	1.00	0.20		H
ATOM	754	HA3	GLY	H	54	2.514	11.085	3.171	1.00	0.20		H
ATOM	755	C	GLY	H	54	1.076	10.981	1.583	1.00	0.20		C
ATOM	756	O	GLY	H	54	0.684	10.030	0.901	1.00	0.20		O
ATOM	757	N	ARG	H	55	0.282	12.000	1.915	1.00	0.24		N
ATOM	758	H	ARG	H	55	0.698	12.740	2.475	1.00	0.24		H
ATOM	759	CA	ARG	H	55	-1.098	12.164	1.452	1.00	0.24		C
ATOM	760	HA	ARG	H	55	-1.164	11.700	0.469	1.00	0.24		H
ATOM	761	C	ARG	H	55	-1.466	13.627	1.271	1.00	0.24		C
ATOM	762	CB	ARG	H	55	-2.067	11.417	2.388	1.00	0.24		C
ATOM	763	HB2	ARG	H	55	-2.950	11.140	1.813	1.00	0.24		H
ATOM	764	HB3	ARG	H	55	-1.591	10.486	2.693	1.00	0.24		H

ATOM	765	O	ARG H	55	-1.061	14.469	2.073	1.00	0.24	O
ATOM	766	CG	ARG H	55	-2.510	12.171	3.658	1.00	0.24	C
ATOM	767	HG2	ARG H	55	-2.687	11.442	4.449	1.00	0.24	H
ATOM	768	HG3	ARG H	55	-1.716	12.835	3.996	1.00	0.24	H
ATOM	769	CD	ARG H	55	-3.824	12.941	3.428	1.00	0.24	C
ATOM	770	HD2	ARG H	55	-4.625	12.377	3.906	1.00	0.24	H
ATOM	771	HD3	ARG H	55	-4.047	12.972	2.360	1.00	0.24	H
ATOM	772	NE	ARG H	55	-3.786	14.334	3.916	1.00	0.24	N
ATOM	773	HE	ARG H	55	-3.078	14.931	3.516	1.00	0.24	H
ATOM	774	NH1	ARG H	55	-5.658	14.285	5.270	1.00	0.24	N
ATOM	775	HH11	ARG H	55	-5.824	13.316	5.047	1.00	0.24	H
ATOM	776	HH12	ARG H	55	-6.384	14.778	5.759	1.00	0.24	H
ATOM	777	NH2	ARG H	55	-4.659	16.211	4.844	1.00	0.24	N
ATOM	778	HH21	ARG H	55	-5.467	16.655	5.248	1.00	0.24	H
ATOM	779	HH22	ARG H	55	-4.087	16.745	4.198	1.00	0.24	H
ATOM	780	CZ	ARG H	55	-4.693	14.924	4.678	1.00	0.24	C
ATOM	781	N	ILE H	56	-2.294	13.918	0.277	1.00	0.26	N
ATOM	782	H	ILE H	56	-2.609	13.154	-0.316	1.00	0.26	H
ATOM	783	CA	ILE H	56	-2.943	15.220	0.109	1.00	0.26	C
ATOM	784	HA	ILE H	56	-2.549	15.900	0.862	1.00	0.26	H
ATOM	785	C	ILE H	56	-4.443	15.105	0.379	1.00	0.26	C
ATOM	786	CB	ILE H	56	-2.596	15.845	-1.259	1.00	0.26	C
ATOM	787	HB	ILE H	56	-1.508	15.855	-1.331	1.00	0.26	H
ATOM	788	O	ILE H	56	-5.062	14.074	0.123	1.00	0.26	O
ATOM	789	CG1	ILE H	56	-3.079	17.311	-1.329	1.00	0.26	C
ATOM	790	HG12	ILE H	56	-4.159	17.340	-1.473	1.00	0.26	H
ATOM	791	HG13	ILE H	56	-2.845	17.810	-0.387	1.00	0.26	H
ATOM	792	CG2	ILE H	56	-3.149	15.022	-2.435	1.00	0.26	C
ATOM	793	HG21	ILE H	56	-2.810	15.438	-3.382	1.00	0.26	H
ATOM	794	HG22	ILE H	56	-4.239	15.022	-2.417	1.00	0.26	H
ATOM	795	HG23	ILE H	56	-2.795	13.993	-2.376	1.00	0.26	H
ATOM	796	CD1	ILE H	56	-2.415	18.117	-2.448	1.00	0.26	C
ATOM	797	HD11	ILE H	56	-1.331	18.077	-2.344	1.00	0.26	H
ATOM	798	HD12	ILE H	56	-2.706	17.719	-3.418	1.00	0.26	H
ATOM	799	HD13	ILE H	56	-2.738	19.156	-2.387	1.00	0.26	H
ATOM	800	N	ASP H	57	-4.999	16.175	0.929	1.00	0.31	N
ATOM	801	H	ASP H	57	-4.395	16.952	1.155	1.00	0.31	H
ATOM	802	CA	ASP H	57	-6.428	16.464	0.986	1.00	0.31	C
ATOM	803	HA	ASP H	57	-7.022	15.555	0.906	1.00	0.31	H
ATOM	804	C	ASP H	57	-6.768	17.406	-0.183	1.00	0.31	C
ATOM	805	CB	ASP H	57	-6.675	17.058	2.375	1.00	0.31	C
ATOM	806	HB2	ASP H	57	-6.563	16.245	3.090	1.00	0.31	H
ATOM	807	HB3	ASP H	57	-5.911	17.808	2.585	1.00	0.31	H

ATOM	808	O	ASP H	57	-6.380	18.578	-0.137	1.00	0.31	O
ATOM	809	CG	ASP H	57	-8.029	17.701	2.631	1.00	0.31	C
ATOM	810	OD1	ASP H	57	-8.783	17.962	1.671	1.00	0.31	O
ATOM	811	OD2	ASP H	57	-8.261	17.957	3.834	1.00	0.31	O
ATOM	812	N	PRO H	58	-7.404	16.921	-1.267	1.00	0.32	N
ATOM	813	CA	PRO H	58	-7.653	17.738	-2.453	1.00	0.32	C
ATOM	814	HA	PRO H	58	-6.717	18.222	-2.736	1.00	0.32	H
ATOM	815	C	PRO H	58	-8.709	18.835	-2.257	1.00	0.32	C
ATOM	816	CB	PRO H	58	-8.042	16.752	-3.562	1.00	0.32	C
ATOM	817	HB2	PRO H	58	-9.127	16.642	-3.606	1.00	0.32	H
ATOM	818	HB3	PRO H	58	-7.645	17.062	-4.529	1.00	0.32	H
ATOM	819	O	PRO H	58	-8.780	19.739	-3.086	1.00	0.32	O
ATOM	820	CG	PRO H	58	-7.411	15.444	-3.095	1.00	0.32	C
ATOM	821	HG2	PRO H	58	-7.869	14.569	-3.546	1.00	0.32	H
ATOM	822	HG3	PRO H	58	-6.340	15.457	-3.296	1.00	0.32	H
ATOM	823	CD	PRO H	58	-7.665	15.526	-1.595	1.00	0.32	C
ATOM	824	HD2	PRO H	58	-8.708	15.289	-1.378	1.00	0.32	H
ATOM	825	HD3	PRO H	58	-7.011	14.831	-1.080	1.00	0.32	H
ATOM	826	N	ALA H	59	-9.511	18.800	-1.186	1.00	0.47	N
ATOM	827	H	ALA H	59	-9.374	18.085	-0.477	1.00	0.47	H
ATOM	828	CA	ALA H	59	-10.520	19.825	-0.913	1.00	0.47	C
ATOM	829	HA	ALA H	59	-11.065	20.033	-1.835	1.00	0.47	H
ATOM	830	C	ALA H	59	-9.915	21.159	-0.433	1.00	0.47	C
ATOM	831	CB	ALA H	59	-11.515	19.271	0.113	1.00	0.47	C
ATOM	832	HB1	ALA H	59	-11.942	18.335	-0.250	1.00	0.47	H
ATOM	833	HB2	ALA H	59	-12.321	19.990	0.266	1.00	0.47	H
ATOM	834	HB3	ALA H	59	-11.017	19.089	1.066	1.00	0.47	H
ATOM	835	O	ALA H	59	-10.545	22.203	-0.588	1.00	0.47	O
ATOM	836	N	ASN H	62	-8.707	21.141	0.149	1.00	0.52	N
ATOM	837	H	ASN H	62	-8.299	20.232	0.333	1.00	0.52	H
ATOM	838	CA	ASN H	62	-8.033	22.353	0.649	1.00	0.52	C
ATOM	839	HA	ASN H	62	-8.385	23.202	0.059	1.00	0.52	H
ATOM	840	C	ASN H	62	-6.496	22.366	0.485	1.00	0.52	C
ATOM	841	CB	ASN H	62	-8.461	22.600	2.106	1.00	0.52	C
ATOM	842	HB2	ASN H	62	-8.013	23.526	2.465	1.00	0.52	H
ATOM	843	HB3	ASN H	62	-9.544	22.717	2.148	1.00	0.52	H
ATOM	844	O	ASN H	62	-5.836	23.303	0.928	1.00	0.52	O
ATOM	845	CG	ASN H	62	-8.033	21.477	3.025	1.00	0.52	C
ATOM	846	ND2	ASN H	62	-8.950	20.621	3.403	1.00	0.52	N
ATOM	847	HD21	ASN H	62	-8.644	19.727	3.793	1.00	0.52	H
ATOM	848	HD22	ASN H	62	-9.870	20.665	3.008	1.00	0.52	H
ATOM	849	OD1	ASN H	62	-6.869	21.357	3.378	1.00	0.52	O
ATOM	850	N	GLY H	63	-5.903	21.343	-0.136	1.00	0.37	N

ATOM	851	H	GLY H	63	-6.471	20.553	-0.418	1.00	0.37		H
ATOM	852	CA	GLY H	63	-4.467	21.263	-0.419	1.00	0.37		C
ATOM	853	HA2	GLY H	63	-4.103	22.250	-0.708	1.00	0.37		H
ATOM	854	HA3	GLY H	63	-4.324	20.591	-1.265	1.00	0.37		H
ATOM	855	C	GLY H	63	-3.589	20.757	0.734	1.00	0.37		C
ATOM	856	O	GLY H	63	-2.378	20.650	0.553	1.00	0.37		O
ATOM	857	N	ASN H	64	-4.140	20.404	1.907	1.00	0.45		N
ATOM	858	H	ASN H	64	-5.137	20.542	2.027	1.00	0.45		H
ATOM	859	CA	ASN H	64	-3.339	19.948	3.055	1.00	0.45		C
ATOM	860	HA	ASN H	64	-2.596	20.723	3.257	1.00	0.45		H
ATOM	861	C	ASN H	64	-2.561	18.645	2.780	1.00	0.45		C
ATOM	862	CB	ASN H	64	-4.216	19.782	4.314	1.00	0.45		C
ATOM	863	HB2	ASN H	64	-5.269	19.696	4.058	1.00	0.45		H
ATOM	864	HB3	ASN H	64	-3.955	18.869	4.840	1.00	0.45		H
ATOM	865	O	ASN H	64	-3.082	17.532	2.934	1.00	0.45		O
ATOM	866	CG	ASN H	64	-3.991	20.889	5.310	1.00	0.45		C
ATOM	867	ND2	ASN H	64	-4.796	21.917	5.284	1.00	0.45		N
ATOM	868	HD21	ASN H	64	-4.654	22.672	5.927	1.00	0.45		H
ATOM	869	HD22	ASN H	64	-5.561	21.921	4.609	1.00	0.45		H
ATOM	870	OD1	ASN H	64	-3.067	20.805	6.112	1.00	0.45		O
ATOM	871	N	THR H	65	-1.271	18.767	2.485	1.00	0.30		N
ATOM	872	H	THR H	65	-0.916	19.687	2.246	1.00	0.30		H
ATOM	873	CA	THR H	65	-0.325	17.648	2.419	1.00	0.30		C
ATOM	874	HA	THR H	65	-0.816	16.811	1.936	1.00	0.30		H
ATOM	875	C	THR H	65	0.150	17.209	3.806	1.00	0.30		C
ATOM	876	CB	THR H	65	0.897	18.012	1.565	1.00	0.30		C
ATOM	877	HB	THR H	65	1.617	17.197	1.619	1.00	0.30		H
ATOM	878	O	THR H	65	0.253	18.027	4.725	1.00	0.30		O
ATOM	879	CG2	THR H	65	0.545	18.238	0.097	1.00	0.30		C
ATOM	880	HG21	THR H	65	-0.176	19.050	-0.006	1.00	0.30		H
ATOM	881	HG22	THR H	65	1.449	18.507	-0.450	1.00	0.30		H
ATOM	882	HG23	THR H	65	0.136	17.326	-0.332	1.00	0.30		H
ATOM	883	OG1	THR H	65	1.500	19.191	2.046	1.00	0.30		O
ATOM	884	HG1	THR H	65	2.006	18.988	2.836	1.00	0.30		H
ATOM	885	N	LYS H	66	0.495	15.927	3.948	1.00	0.25		N
ATOM	886	H	LYS H	66	0.296	15.308	3.164	1.00	0.25		H
ATOM	887	CA	LYS H	66	1.264	15.330	5.057	1.00	0.25		C
ATOM	888	HA	LYS H	66	1.854	16.103	5.548	1.00	0.25		H
ATOM	889	C	LYS H	66	2.247	14.320	4.446	1.00	0.25		C
ATOM	890	CB	LYS H	66	0.320	14.666	6.086	1.00	0.25		C
ATOM	891	HB2	LYS H	66	-0.157	13.808	5.607	1.00	0.25		H
ATOM	892	HB3	LYS H	66	0.913	14.285	6.920	1.00	0.25		H
ATOM	893	O	LYS H	66	1.889	13.692	3.454	1.00	0.25		O

ATOM	894	CG	LYS H	66	-0.798	15.581	6.640	1.00	0.25	C
ATOM	895	HG2	LYS H	66	-1.489	14.962	7.214	1.00	0.25	H
ATOM	896	HG3	LYS H	66	-1.368	15.994	5.808	1.00	0.25	H
ATOM	897	CD	LYS H	66	-0.312	16.723	7.556	1.00	0.25	C
ATOM	898	HD2	LYS H	66	0.616	17.151	7.177	1.00	0.25	H
ATOM	899	HD3	LYS H	66	-0.101	16.301	8.540	1.00	0.25	H
ATOM	900	CE	LYS H	66	-1.388	17.821	7.700	1.00	0.25	C
ATOM	901	HE2	LYS H	66	-1.514	18.056	8.761	1.00	0.25	H
ATOM	902	HE3	LYS H	66	-2.339	17.422	7.338	1.00	0.25	H
ATOM	903	NZ	LYS H	66	-1.042	19.060	6.953	1.00	0.25	N
ATOM	904	HZ1	LYS H	66	-1.843	19.688	6.857	1.00	0.25	H
ATOM	905	HZ2	LYS H	66	-0.301	19.572	7.407	1.00	0.25	H
ATOM	906	HZ3	LYS H	66	-0.714	18.832	6.016	1.00	0.25	H
ATOM	907	N	PHE H	67	3.446	14.172	5.003	1.00	0.20	N
ATOM	908	H	PHE H	67	3.657	14.652	5.864	1.00	0.20	H
ATOM	909	CA	PHE H	67	4.519	13.321	4.467	1.00	0.20	C
ATOM	910	HA	PHE H	67	4.114	12.622	3.739	1.00	0.20	H
ATOM	911	C	PHE H	67	5.153	12.490	5.585	1.00	0.20	C
ATOM	912	CB	PHE H	67	5.588	14.181	3.765	1.00	0.20	C
ATOM	913	HB2	PHE H	67	6.085	14.800	4.515	1.00	0.20	H
ATOM	914	HB3	PHE H	67	6.348	13.517	3.348	1.00	0.20	H
ATOM	915	O	PHE H	67	5.098	12.893	6.748	1.00	0.20	O
ATOM	916	CG	PHE H	67	5.075	15.073	2.647	1.00	0.20	C
ATOM	917	CD1	PHE H	67	4.655	14.503	1.432	1.00	0.20	C
ATOM	918	HD1	PHE H	67	4.719	13.433	1.292	1.00	0.20	H
ATOM	919	CD2	PHE H	67	5.041	16.472	2.808	1.00	0.20	C
ATOM	920	HD2	PHE H	67	5.415	16.920	3.719	1.00	0.20	H
ATOM	921	CE1	PHE H	67	4.176	15.324	0.395	1.00	0.20	C
ATOM	922	HE1	PHE H	67	3.869	14.877	-0.535	1.00	0.20	H
ATOM	923	CE2	PHE H	67	4.561	17.292	1.770	1.00	0.20	C
ATOM	924	HE2	PHE H	67	4.557	18.367	1.888	1.00	0.20	H
ATOM	925	CZ	PHE H	67	4.122	16.719	0.564	1.00	0.20	C
ATOM	926	HZ	PHE H	67	3.761	17.356	-0.231	1.00	0.20	H
ATOM	927	N	ASP H	68	5.777	11.364	5.245	1.00	0.12	N
ATOM	928	H	ASP H	68	5.782	11.080	4.269	1.00	0.12	H
ATOM	929	CA	ASP H	68	6.790	10.768	6.120	1.00	0.12	C
ATOM	930	HA	ASP H	68	6.393	10.740	7.133	1.00	0.12	H
ATOM	931	C	ASP H	68	8.058	11.654	6.078	1.00	0.12	C
ATOM	932	CB	ASP H	68	7.054	9.309	5.707	1.00	0.12	C
ATOM	933	HB2	ASP H	68	6.106	8.772	5.722	1.00	0.12	H
ATOM	934	HB3	ASP H	68	7.427	9.294	4.687	1.00	0.12	H
ATOM	935	O	ASP H	68	8.513	11.989	4.978	1.00	0.12	O
ATOM	936	CG	ASP H	68	8.050	8.572	6.612	1.00	0.12	C

ATOM	937	OD1	ASP	H	68	9.016	9.190	7.117	1.00	0.12	O
ATOM	938	OD2	ASP	H	68	7.865	7.366	6.877	1.00	0.12	O
ATOM	939	N	PRO	H	69	8.653	12.040	7.229	1.00	0.22	N
ATOM	940	CA	PRO	H	69	9.900	12.809	7.285	1.00	0.22	C
ATOM	941	HA	PRO	H	69	9.680	13.837	6.997	1.00	0.22	H
ATOM	942	C	PRO	H	69	11.030	12.285	6.388	1.00	0.22	C
ATOM	943	CB	PRO	H	69	10.315	12.782	8.760	1.00	0.22	C
ATOM	944	HB2	PRO	H	69	10.893	13.666	9.032	1.00	0.22	H
ATOM	945	HB3	PRO	H	69	10.877	11.872	8.980	1.00	0.22	H
ATOM	946	O	PRO	H	69	11.817	13.082	5.884	1.00	0.22	O
ATOM	947	CG	PRO	H	69	8.973	12.738	9.486	1.00	0.22	C
ATOM	948	HG2	PRO	H	69	8.541	13.739	9.522	1.00	0.22	H
ATOM	949	HG3	PRO	H	69	9.065	12.319	10.489	1.00	0.22	H
ATOM	950	CD	PRO	H	69	8.129	11.847	8.577	1.00	0.22	C
ATOM	951	HD2	PRO	H	69	7.081	12.144	8.643	1.00	0.22	H
ATOM	952	HD3	PRO	H	69	8.244	10.805	8.876	1.00	0.22	H
ATOM	953	N	LYS	H	70	11.077	10.974	6.125	1.00	0.29	N
ATOM	954	H	LYS	H	70	10.352	10.388	6.542	1.00	0.29	H
ATOM	955	CA	LYS	H	70	12.062	10.316	5.246	1.00	0.29	C
ATOM	956	HA	LYS	H	70	13.069	10.539	5.600	1.00	0.29	H
ATOM	957	C	LYS	H	70	11.999	10.811	3.792	1.00	0.29	C
ATOM	958	CB	LYS	H	70	11.829	8.795	5.308	1.00	0.29	C
ATOM	959	HB2	LYS	H	70	10.816	8.591	4.954	1.00	0.29	H
ATOM	960	HB3	LYS	H	70	12.527	8.292	4.637	1.00	0.29	H
ATOM	961	O	LYS	H	70	13.008	10.779	3.097	1.00	0.29	O
ATOM	962	CG	LYS	H	70	12.001	8.215	6.730	1.00	0.29	C
ATOM	963	HG2	LYS	H	70	13.063	8.182	6.979	1.00	0.29	H
ATOM	964	HG3	LYS	H	70	11.522	8.865	7.459	1.00	0.29	H
ATOM	965	CD	LYS	H	70	11.402	6.803	6.865	1.00	0.29	C
ATOM	966	HD2	LYS	H	70	12.129	6.079	6.492	1.00	0.29	H
ATOM	967	HD3	LYS	H	70	10.500	6.715	6.256	1.00	0.29	H
ATOM	968	CE	LYS	H	70	11.045	6.468	8.325	1.00	0.29	C
ATOM	969	HE2	LYS	H	70	11.874	6.764	8.973	1.00	0.29	H
ATOM	970	HE3	LYS	H	70	10.910	5.388	8.414	1.00	0.29	H
ATOM	971	NZ	LYS	H	70	9.797	7.149	8.750	1.00	0.29	N
ATOM	972	HZ1	LYS	H	70	9.002	6.850	8.180	1.00	0.29	H
ATOM	973	HZ2	LYS	H	70	9.811	8.138	8.512	1.00	0.29	H
ATOM	974	HZ3	LYS	H	70	9.565	7.035	9.741	1.00	0.29	H
ATOM	975	N	PHE	H	71	10.838	11.294	3.341	1.00	0.19	N
ATOM	976	H	PHE	H	71	10.052	11.301	3.982	1.00	0.19	H
ATOM	977	CA	PHE	H	71	10.627	11.858	2.002	1.00	0.19	C
ATOM	978	HA	PHE	H	71	11.480	11.595	1.375	1.00	0.19	H
ATOM	979	C	PHE	H	71	10.544	13.397	1.988	1.00	0.19	C

ATOM	980	CB	PHE	H	71	9.380	11.224	1.366	1.00	0.19	C
ATOM	981	HB2	PHE	H	71	9.171	11.728	0.423	1.00	0.19	H
ATOM	982	HB3	PHE	H	71	8.521	11.392	2.020	1.00	0.19	H
ATOM	983	O	PHE	H	71	10.341	13.990	0.922	1.00	0.19	O
ATOM	984	CG	PHE	H	71	9.509	9.740	1.073	1.00	0.19	C
ATOM	985	CD1	PHE	H	71	10.119	9.301	-0.118	1.00	0.19	C
ATOM	986	HD1	PHE	H	71	10.516	10.017	-0.822	1.00	0.19	H
ATOM	987	CD2	PHE	H	71	9.006	8.795	1.984	1.00	0.19	C
ATOM	988	HD2	PHE	H	71	8.538	9.126	2.895	1.00	0.19	H
ATOM	989	CE1	PHE	H	71	10.229	7.924	-0.388	1.00	0.19	C
ATOM	990	HE1	PHE	H	71	10.714	7.588	-1.292	1.00	0.19	H
ATOM	991	CE2	PHE	H	71	9.107	7.421	1.712	1.00	0.19	C
ATOM	992	HE2	PHE	H	71	8.718	6.699	2.417	1.00	0.19	H
ATOM	993	CZ	PHE	H	71	9.725	6.984	0.529	1.00	0.19	C
ATOM	994	HZ	PHE	H	71	9.823	5.924	0.336	1.00	0.19	H
ATOM	995	N	GLN	H	72	10.703	14.074	3.131	1.00	0.24	N
ATOM	996	H	GLN	H	72	10.944	13.567	3.975	1.00	0.24	H
ATOM	997	CA	GLN	H	72	10.620	15.534	3.197	1.00	0.24	C
ATOM	998	HA	GLN	H	72	9.665	15.823	2.755	1.00	0.24	H
ATOM	999	C	GLN	H	72	11.746	16.188	2.372	1.00	0.24	C
ATOM	1000	CB	GLN	H	72	10.612	15.985	4.668	1.00	0.24	C
ATOM	1001	HB2	GLN	H	72	11.527	15.642	5.153	1.00	0.24	H
ATOM	1002	HB3	GLN	H	72	9.764	15.518	5.171	1.00	0.24	H
ATOM	1003	O	GLN	H	72	12.926	15.948	2.601	1.00	0.24	O
ATOM	1004	CG	GLN	H	72	10.514	17.509	4.842	1.00	0.24	C
ATOM	1005	HG2	GLN	H	72	11.436	17.966	4.479	1.00	0.24	H
ATOM	1006	HG3	GLN	H	72	10.430	17.738	5.904	1.00	0.24	H
ATOM	1007	CD	GLN	H	72	9.319	18.126	4.118	1.00	0.24	C
ATOM	1008	NE2	GLN	H	72	9.512	19.198	3.381	1.00	0.24	N
ATOM	1009	HE21	GLN	H	72	10.421	19.620	3.316	1.00	0.24	H
ATOM	1010	HE22	GLN	H	72	8.699	19.571	2.925	1.00	0.24	H
ATOM	1011	OE1	GLN	H	72	8.195	17.658	4.178	1.00	0.24	O
ATOM	1012	N	GLY	H	74	11.386	17.013	1.382	1.00	0.25	N
ATOM	1013	H	GLY	H	74	10.399	17.134	1.205	1.00	0.25	H
ATOM	1014	CA	GLY	H	74	12.329	17.624	0.427	1.00	0.25	C
ATOM	1015	HA2	GLY	H	74	13.260	17.863	0.943	1.00	0.25	H
ATOM	1016	HA3	GLY	H	74	11.903	18.553	0.048	1.00	0.25	H
ATOM	1017	C	GLY	H	74	12.686	16.745	-0.784	1.00	0.25	C
ATOM	1018	O	GLY	H	74	13.142	17.266	-1.799	1.00	0.25	O
ATOM	1019	N	LYS	H	75	12.426	15.433	-0.717	1.00	0.21	N
ATOM	1020	H	LYS	H	75	12.068	15.077	0.161	1.00	0.21	H
ATOM	1021	CA	LYS	H	75	12.487	14.504	-1.859	1.00	0.21	C
ATOM	1022	HA	LYS	H	75	13.279	14.820	-2.540	1.00	0.21	H

ATOM	1023	C	LYS H	75	11.187	14.512	-2.669	1.00	0.21	C
ATOM	1024	CB	LYS H	75	12.825	13.096	-1.320	1.00	0.21	C
ATOM	1025	HB2	LYS H	75	12.214	12.894	-0.443	1.00	0.21	H
ATOM	1026	HB3	LYS H	75	13.865	13.085	-0.991	1.00	0.21	H
ATOM	1027	O	LYS H	75	11.228	14.543	-3.898	1.00	0.21	O
ATOM	1028	CG	LYS H	75	12.587	11.932	-2.299	1.00	0.21	C
ATOM	1029	HG2	LYS H	75	11.525	11.874	-2.539	1.00	0.21	H
ATOM	1030	HG3	LYS H	75	12.853	10.998	-1.801	1.00	0.21	H
ATOM	1031	CD	LYS H	75	13.380	12.035	-3.605	1.00	0.21	C
ATOM	1032	HD2	LYS H	75	13.222	13.000	-4.079	1.00	0.21	H
ATOM	1033	HD3	LYS H	75	13.012	11.268	-4.287	1.00	0.21	H
ATOM	1034	CE	LYS H	75	14.874	11.830	-3.351	1.00	0.21	C
ATOM	1035	HE2	LYS H	75	15.008	10.883	-2.816	1.00	0.21	H
ATOM	1036	HE3	LYS H	75	15.253	12.649	-2.737	1.00	0.21	H
ATOM	1037	NZ	LYS H	75	15.596	11.767	-4.633	1.00	0.21	N
ATOM	1038	HZ1	LYS H	75	16.599	11.826	-4.527	1.00	0.21	H
ATOM	1039	HZ2	LYS H	75	15.413	10.853	-5.057	1.00	0.21	H
ATOM	1040	HZ3	LYS H	75	15.302	12.510	-5.259	1.00	0.21	H
ATOM	1041	N	ALA H	76	10.048	14.443	-1.983	1.00	0.13	N
ATOM	1042	H	ALA H	76	10.105	14.415	-0.972	1.00	0.13	H
ATOM	1043	CA	ALA H	76	8.727	14.331	-2.590	1.00	0.13	C
ATOM	1044	HA	ALA H	76	8.841	14.091	-3.647	1.00	0.13	H
ATOM	1045	C	ALA H	76	7.924	15.637	-2.503	1.00	0.13	C
ATOM	1046	CB	ALA H	76	7.984	13.163	-1.930	1.00	0.13	C
ATOM	1047	HB1	ALA H	76	7.016	13.021	-2.410	1.00	0.13	H
ATOM	1048	HB2	ALA H	76	7.829	13.373	-0.870	1.00	0.13	H
ATOM	1049	HB3	ALA H	76	8.566	12.246	-2.033	1.00	0.13	H
ATOM	1050	O	ALA H	76	8.129	16.475	-1.626	1.00	0.13	O
ATOM	1051	N	THR H	77	6.959	15.795	-3.407	1.00	0.15	N
ATOM	1052	H	THR H	77	6.945	15.144	-4.188	1.00	0.15	H
ATOM	1053	CA	THR H	77	5.935	16.846	-3.367	1.00	0.15	C
ATOM	1054	HA	THR H	77	5.710	17.082	-2.326	1.00	0.15	H
ATOM	1055	C	THR H	77	4.653	16.327	-4.012	1.00	0.15	C
ATOM	1056	CB	THR H	77	6.459	18.135	-4.021	1.00	0.15	C
ATOM	1057	HB	THR H	77	7.015	17.893	-4.926	1.00	0.15	H
ATOM	1058	O	THR H	77	4.564	16.157	-5.228	1.00	0.15	O
ATOM	1059	CG2	THR H	77	5.380	19.168	-4.355	1.00	0.15	C
ATOM	1060	HG21	THR H	77	4.759	18.812	-5.175	1.00	0.15	H
ATOM	1061	HG22	THR H	77	4.761	19.360	-3.478	1.00	0.15	H
ATOM	1062	HG23	THR H	77	5.858	20.098	-4.665	1.00	0.15	H
ATOM	1063	OG1	THR H	77	7.317	18.767	-3.102	1.00	0.15	O
ATOM	1064	HG1	THR H	77	7.839	18.082	-2.654	1.00	0.15	H
ATOM	1065	N	ILE H	78	3.650	16.040	-3.180	1.00	0.13	N

ATOM	1066	H	ILE	H	78	3.774	16.233	-2.199	1.00	0.13		H
ATOM	1067	CA	ILE	H	78	2.323	15.610	-3.634	1.00	0.13		C
ATOM	1068	HA	ILE	H	78	2.439	15.088	-4.583	1.00	0.13		H
ATOM	1069	C	ILE	H	78	1.458	16.851	-3.883	1.00	0.13		C
ATOM	1070	CB	ILE	H	78	1.676	14.605	-2.651	1.00	0.13		C
ATOM	1071	HB	ILE	H	78	1.605	15.083	-1.672	1.00	0.13		H
ATOM	1072	O	ILE	H	78	1.451	17.783	-3.085	1.00	0.13		O
ATOM	1073	CG1	ILE	H	78	2.530	13.317	-2.528	1.00	0.13		C
ATOM	1074	HG12	ILE	H	78	3.584	13.575	-2.432	1.00	0.13		H
ATOM	1075	HG13	ILE	H	78	2.425	12.720	-3.435	1.00	0.13		H
ATOM	1076	CG2	ILE	H	78	0.259	14.216	-3.112	1.00	0.13		C
ATOM	1077	HG21	ILE	H	78	-0.205	13.538	-2.397	1.00	0.13		H
ATOM	1078	HG22	ILE	H	78	-0.374	15.097	-3.188	1.00	0.13		H
ATOM	1079	HG23	ILE	H	78	0.302	13.733	-4.090	1.00	0.13		H
ATOM	1080	CD1	ILE	H	78	2.169	12.455	-1.310	1.00	0.13		C
ATOM	1081	HD11	ILE	H	78	2.207	13.059	-0.403	1.00	0.13		H
ATOM	1082	HD12	ILE	H	78	1.172	12.030	-1.418	1.00	0.13		H
ATOM	1083	HD13	ILE	H	78	2.887	11.640	-1.220	1.00	0.13		H
ATOM	1084	N	THR	H	79	0.719	16.852	-4.988	1.00	0.18		N
ATOM	1085	H	THR	H	79	0.727	16.001	-5.547	1.00	0.18		H
ATOM	1086	CA	THR	H	79	-0.197	17.921	-5.424	1.00	0.18		C
ATOM	1087	HA	THR	H	79	-0.512	18.501	-4.557	1.00	0.18		H
ATOM	1088	C	THR	H	79	-1.460	17.293	-6.024	1.00	0.18		C
ATOM	1089	CB	THR	H	79	0.503	18.885	-6.408	1.00	0.18		C
ATOM	1090	HB	THR	H	79	-0.250	19.454	-6.953	1.00	0.18		H
ATOM	1091	O	THR	H	79	-1.476	16.094	-6.298	1.00	0.18		O
ATOM	1092	CG2	THR	H	79	1.417	19.877	-5.692	1.00	0.18		C
ATOM	1093	HG21	THR	H	79	1.829	20.582	-6.413	1.00	0.18		H
ATOM	1094	HG22	THR	H	79	0.845	20.433	-4.948	1.00	0.18		H
ATOM	1095	HG23	THR	H	79	2.232	19.355	-5.192	1.00	0.18		H
ATOM	1096	OG1	THR	H	79	1.321	18.191	-7.331	1.00	0.18		O
ATOM	1097	HG1	THR	H	79	1.570	17.373	-6.879	1.00	0.18		H
ATOM	1098	N	ALA	H	80	-2.534	18.060	-6.204	1.00	0.16		N
ATOM	1099	H	ALA	H	80	-2.506	19.044	-5.974	1.00	0.16		H
ATOM	1100	CA	ALA	H	80	-3.783	17.570	-6.784	1.00	0.16		C
ATOM	1101	HA	ALA	H	80	-3.557	16.799	-7.519	1.00	0.16		H
ATOM	1102	C	ALA	H	80	-4.518	18.694	-7.514	1.00	0.16		C
ATOM	1103	CB	ALA	H	80	-4.663	16.955	-5.686	1.00	0.16		C
ATOM	1104	HB1	ALA	H	80	-5.601	16.616	-6.123	1.00	0.16		H
ATOM	1105	HB2	ALA	H	80	-4.879	17.697	-4.916	1.00	0.16		H
ATOM	1106	HB3	ALA	H	80	-4.158	16.099	-5.239	1.00	0.16		H
ATOM	1107	O	ALA	H	80	-4.469	19.845	-7.086	1.00	0.16		O
ATOM	1108	N	ASP	H	81	-5.218	18.336	-8.584	1.00	0.25		N

ATOM	1109	H	ASP	H	81	-5.189	17.363	-8.879	1.00	0.25		H
ATOM	1110	CA	ASP	H	81	-6.183	19.187	-9.266	1.00	0.25		C
ATOM	1111	HA	ASP	H	81	-6.258	20.154	-8.763	1.00	0.25		H
ATOM	1112	C	ASP	H	81	-7.556	18.509	-9.214	1.00	0.25		C
ATOM	1113	CB	ASP	H	81	-5.733	19.451	-10.705	1.00	0.25		C
ATOM	1114	HB2	ASP	H	81	-5.452	18.503	-11.166	1.00	0.25		H
ATOM	1115	HB3	ASP	H	81	-4.861	20.106	-10.698	1.00	0.25		H
ATOM	1116	O	ASP	H	81	-7.730	17.374	-9.661	1.00	0.25		O
ATOM	1117	CG	ASP	H	81	-6.846	20.091	-11.535	1.00	0.25		C
ATOM	1118	OD1	ASP	H	81	-7.724	20.796	-10.986	1.00	0.25		O
ATOM	1119	OD2	ASP	H	81	-6.917	19.772	-12.734	1.00	0.25		O
ATOM	1120	N	THR	H	82	-8.542	19.207	-8.654	1.00	0.29		N
ATOM	1121	H	THR	H	82	-8.356	20.168	-8.407	1.00	0.29		H
ATOM	1122	CA	THR	H	82	-9.907	18.685	-8.517	1.00	0.29		C
ATOM	1123	HA	THR	H	82	-9.847	17.597	-8.501	1.00	0.29		H
ATOM	1124	C	THR	H	82	-10.820	19.024	-9.695	1.00	0.29		C
ATOM	1125	CB	THR	H	82	-10.554	19.091	-7.190	1.00	0.29		C
ATOM	1126	HB	THR	H	82	-11.460	18.499	-7.085	1.00	0.29		H
ATOM	1127	O	THR	H	82	-11.987	18.627	-9.667	1.00	0.29		O
ATOM	1128	CG2	THR	H	82	-9.667	18.794	-5.987	1.00	0.29		C
ATOM	1129	HG21	THR	H	82	-10.219	18.987	-5.070	1.00	0.29		H
ATOM	1130	HG22	THR	H	82	-9.373	17.747	-6.009	1.00	0.29		H
ATOM	1131	HG23	THR	H	82	-8.773	19.418	-5.994	1.00	0.29		H
ATOM	1132	OG1	THR	H	82	-10.922	20.447	-7.150	1.00	0.29		O
ATOM	1133	HG1	THR	H	82	-10.166	20.944	-6.817	1.00	0.29		H
ATOM	1134	N	SER	H	83	-10.322	19.734	-10.713	1.00	0.35		N
ATOM	1135	H	SER	H	83	-9.361	20.070	-10.652	1.00	0.35		H
ATOM	1136	CA	SER	H	83	-10.998	19.902	-12.004	1.00	0.35		C
ATOM	1137	HA	SER	H	83	-12.074	19.914	-11.832	1.00	0.35		H
ATOM	1138	C	SER	H	83	-10.716	18.704	-12.922	1.00	0.35		C
ATOM	1139	CB	SER	H	83	-10.643	21.256	-12.635	1.00	0.35		C
ATOM	1140	HB2	SER	H	83	-10.796	22.046	-11.899	1.00	0.35		H
ATOM	1141	HB3	SER	H	83	-11.322	21.434	-13.471	1.00	0.35		H
ATOM	1142	O	SER	H	83	-11.658	18.024	-13.318	1.00	0.35		O
ATOM	1143	OG	SER	H	83	-9.324	21.328	-13.124	1.00	0.35		O
ATOM	1144	HG	SER	H	83	-8.671	21.210	-12.399	1.00	0.35		H
ATOM	1145	N	SER	H	84	-9.445	18.343	-13.147	1.00	0.25		N
ATOM	1146	H	SER	H	84	-8.707	18.997	-12.893	1.00	0.25		H
ATOM	1147	CA	SER	H	84	-9.047	17.102	-13.845	1.00	0.25		C
ATOM	1148	HA	SER	H	84	-9.753	16.936	-14.659	1.00	0.25		H
ATOM	1149	C	SER	H	84	-9.091	15.840	-12.972	1.00	0.25		C
ATOM	1150	CB	SER	H	84	-7.657	17.243	-14.478	1.00	0.25		C
ATOM	1151	HB2	SER	H	84	-7.448	16.360	-15.083	1.00	0.25		H

ATOM	1152	HB3	SER	H	84	-7.645	18.116	-15.132	1.00	0.25		H
ATOM	1153	O	SER	H	84	-8.675	14.771	-13.418	1.00	0.25		O
ATOM	1154	OG	SER	H	84	-6.643	17.378	-13.502	1.00	0.25		O
ATOM	1155	HG	SER	H	84	-6.676	18.331	-13.227	1.00	0.25		H
ATOM	1156	N	ASN	H	85	-9.567	15.947	-11.727	1.00	0.25		N
ATOM	1157	H	ASN	H	85	-9.858	16.864	-11.433	1.00	0.25		H
ATOM	1158	CA	ASN	H	85	-9.739	14.829	-10.795	1.00	0.25		C
ATOM	1159	HA	ASN	H	85	-9.953	15.271	-9.822	1.00	0.25		H
ATOM	1160	C	ASN	H	85	-8.461	13.980	-10.605	1.00	0.25		C
ATOM	1161	CB	ASN	H	85	-10.970	14.022	-11.243	1.00	0.25		C
ATOM	1162	HB2	ASN	H	85	-11.719	14.690	-11.670	1.00	0.25		H
ATOM	1163	HB3	ASN	H	85	-10.676	13.312	-12.018	1.00	0.25		H
ATOM	1164	O	ASN	H	85	-8.521	12.756	-10.477	1.00	0.25		O
ATOM	1165	CG	ASN	H	85	-11.637	13.298	-10.098	1.00	0.25		C
ATOM	1166	ND2	ASN	H	85	-11.997	12.055	-10.291	1.00	0.25		N
ATOM	1167	HD21	ASN	H	85	-11.716	11.570	-11.137	1.00	0.25		H
ATOM	1168	HD22	ASN	H	85	-12.587	11.596	-9.607	1.00	0.25		H
ATOM	1169	OD1	ASN	H	85	-11.864	13.861	-9.035	1.00	0.25		O
ATOM	1170	N	THR	H	86	-7.299	14.638	-10.626	1.00	0.19		N
ATOM	1171	H	THR	H	86	-7.335	15.653	-10.651	1.00	0.19		H
ATOM	1172	CA	THR	H	86	-5.984	13.999	-10.742	1.00	0.19		C
ATOM	1173	HA	THR	H	86	-6.108	12.918	-10.704	1.00	0.19		H
ATOM	1174	C	THR	H	86	-5.067	14.399	-9.590	1.00	0.19		C
ATOM	1175	CB	THR	H	86	-5.348	14.327	-12.102	1.00	0.19		C
ATOM	1176	HB	THR	H	86	-5.316	15.407	-12.246	1.00	0.19		H
ATOM	1177	O	THR	H	86	-4.824	15.583	-9.347	1.00	0.19		O
ATOM	1178	CG2	THR	H	86	-3.935	13.764	-12.246	1.00	0.19		C
ATOM	1179	HG21	THR	H	86	-3.590	13.909	-13.270	1.00	0.19		H
ATOM	1180	HG22	THR	H	86	-3.254	14.271	-11.568	1.00	0.19		H
ATOM	1181	HG23	THR	H	86	-3.936	12.707	-12.008	1.00	0.19		H
ATOM	1182	OG1	THR	H	86	-6.096	13.734	-13.138	1.00	0.19		O
ATOM	1183	HG1	THR	H	86	-6.964	14.171	-13.195	1.00	0.19		H
ATOM	1184	N	ALA	H	87	-4.522	13.405	-8.888	1.00	0.16		N
ATOM	1185	H	ALA	H	87	-4.752	12.454	-9.162	1.00	0.16		H
ATOM	1186	CA	ALA	H	87	-3.405	13.594	-7.965	1.00	0.16		C
ATOM	1187	HA	ALA	H	87	-3.454	14.597	-7.542	1.00	0.16		H
ATOM	1188	C	ALA	H	87	-2.061	13.460	-8.705	1.00	0.16		C
ATOM	1189	CB	ALA	H	87	-3.540	12.597	-6.809	1.00	0.16		C
ATOM	1190	HB1	ALA	H	87	-3.478	11.575	-7.186	1.00	0.16		H
ATOM	1191	HB2	ALA	H	87	-2.746	12.765	-6.082	1.00	0.16		H
ATOM	1192	HB3	ALA	H	87	-4.503	12.738	-6.318	1.00	0.16		H
ATOM	1193	O	ALA	H	87	-1.954	12.723	-9.683	1.00	0.16		O
ATOM	1194	N	TYR	H	88	-1.017	14.125	-8.214	1.00	0.17		N

ATOM	1195	H	TYR H	88	-1.165	14.724	-7.410	1.00	0.17		H
ATOM	1196	CA	TYR H	88	0.321	14.122	-8.809	1.00	0.17		C
ATOM	1197	HA	TYR H	88	0.402	13.287	-9.503	1.00	0.17		H
ATOM	1198	C	TYR H	88	1.403	13.964	-7.739	1.00	0.17		C
ATOM	1199	CB	TYR H	88	0.574	15.419	-9.590	1.00	0.17		C
ATOM	1200	HB2	TYR H	88	0.596	16.246	-8.884	1.00	0.17		H
ATOM	1201	HB3	TYR H	88	1.564	15.343	-10.038	1.00	0.17		H
ATOM	1202	O	TYR H	88	1.389	14.686	-6.739	1.00	0.17		O
ATOM	1203	CG	TYR H	88	-0.417	15.772	-10.684	1.00	0.17		C
ATOM	1204	CD1	TYR H	88	-0.140	15.428	-12.021	1.00	0.17		C
ATOM	1205	HD1	TYR H	88	0.755	14.870	-12.265	1.00	0.17		H
ATOM	1206	CD2	TYR H	88	-1.582	16.503	-10.373	1.00	0.17		C
ATOM	1207	HD2	TYR H	88	-1.801	16.766	-9.348	1.00	0.17		H
ATOM	1208	CE1	TYR H	88	-1.027	15.817	-13.044	1.00	0.17		C
ATOM	1209	HE1	TYR H	88	-0.827	15.564	-14.075	1.00	0.17		H
ATOM	1210	CE2	TYR H	88	-2.475	16.885	-11.394	1.00	0.17		C
ATOM	1211	HE2	TYR H	88	-3.376	17.428	-11.154	1.00	0.17		H
ATOM	1212	OH	TYR H	88	-3.056	16.883	-13.733	1.00	0.17		O
ATOM	1213	HH	TYR H	88	-3.934	17.133	-13.424	1.00	0.17		H
ATOM	1214	CZ	TYR H	88	-2.198	16.544	-12.736	1.00	0.17		C
ATOM	1215	N	LEU H	89	2.375	13.087	-7.985	1.00	0.16		N
ATOM	1216	H	LEU H	89	2.342	12.577	-8.866	1.00	0.16		H
ATOM	1217	CA	LEU H	89	3.576	12.916	-7.166	1.00	0.16		C
ATOM	1218	HA	LEU H	89	3.483	13.507	-6.253	1.00	0.16		H
ATOM	1219	C	LEU H	89	4.797	13.420	-7.933	1.00	0.16		C
ATOM	1220	CB	LEU H	89	3.711	11.441	-6.749	1.00	0.16		C
ATOM	1221	HB2	LEU H	89	2.915	11.217	-6.045	1.00	0.16		H
ATOM	1222	HB3	LEU H	89	3.575	10.816	-7.633	1.00	0.16		H
ATOM	1223	O	LEU H	89	5.220	12.822	-8.920	1.00	0.16		O
ATOM	1224	CG	LEU H	89	5.060	11.069	-6.101	1.00	0.16		C
ATOM	1225	HG	LEU H	89	5.870	11.298	-6.788	1.00	0.16		H
ATOM	1226	CD1	LEU H	89	5.300	11.812	-4.784	1.00	0.16		C
ATOM	1227	HD11	LEU H	89	6.258	11.502	-4.368	1.00	0.16		H
ATOM	1228	HD12	LEU H	89	5.339	12.886	-4.955	1.00	0.16		H
ATOM	1229	HD13	LEU H	89	4.510	11.576	-4.073	1.00	0.16		H
ATOM	1230	CD2	LEU H	89	5.105	9.572	-5.819	1.00	0.16		C
ATOM	1231	HD21	LEU H	89	6.072	9.309	-5.396	1.00	0.16		H
ATOM	1232	HD22	LEU H	89	4.315	9.297	-5.124	1.00	0.16		H
ATOM	1233	HD23	LEU H	89	4.971	9.019	-6.748	1.00	0.16		H
ATOM	1234	N	GLN H	90	5.367	14.523	-7.464	1.00	0.12		N
ATOM	1235	H	GLN H	90	4.972	14.958	-6.637	1.00	0.12		H
ATOM	1236	CA	GLN H	90	6.642	15.047	-7.932	1.00	0.12		C
ATOM	1237	HA	GLN H	90	6.807	14.730	-8.959	1.00	0.12		H

ATOM	1238	C	GLN	H	90	7.773	14.496	-7.059	1.00	0.12	C
ATOM	1239	CB	GLN	H	90	6.537	16.575	-7.907	1.00	0.12	C
ATOM	1240	HB2	GLN	H	90	5.608	16.828	-8.417	1.00	0.12	H
ATOM	1241	HB3	GLN	H	90	6.457	16.916	-6.876	1.00	0.12	H
ATOM	1242	O	GLN	H	90	7.654	14.503	-5.832	1.00	0.12	O
ATOM	1243	CG	GLN	H	90	7.680	17.337	-8.584	1.00	0.12	C
ATOM	1244	HG2	GLN	H	90	7.874	16.905	-9.566	1.00	0.12	H
ATOM	1245	HG3	GLN	H	90	8.584	17.248	-7.981	1.00	0.12	H
ATOM	1246	CD	GLN	H	90	7.329	18.815	-8.777	1.00	0.12	C
ATOM	1247	NE2	GLN	H	90	8.309	19.674	-8.939	1.00	0.12	N
ATOM	1248	HE21	GLN	H	90	8.062	20.636	-9.084	1.00	0.12	H
ATOM	1249	HE22	GLN	H	90	9.268	19.373	-8.889	1.00	0.12	H
ATOM	1250	OE1	GLN	H	90	6.169	19.222	-8.813	1.00	0.12	O
ATOM	1251	N	LEU	H	91	8.856	14.032	-7.681	1.00	0.17	N
ATOM	1252	H	LEU	H	91	8.874	14.055	-8.697	1.00	0.17	H
ATOM	1253	CA	LEU	H	91	10.063	13.550	-7.005	1.00	0.17	C
ATOM	1254	HA	LEU	H	91	10.021	13.810	-5.948	1.00	0.17	H
ATOM	1255	C	LEU	H	91	11.279	14.249	-7.617	1.00	0.17	C
ATOM	1256	CB	LEU	H	91	10.178	12.020	-7.128	1.00	0.17	C
ATOM	1257	HB2	LEU	H	91	11.140	11.706	-6.722	1.00	0.17	H
ATOM	1258	HB3	LEU	H	91	10.165	11.775	-8.187	1.00	0.17	H
ATOM	1259	O	LEU	H	91	11.420	14.286	-8.841	1.00	0.17	O
ATOM	1260	CG	LEU	H	91	9.071	11.214	-6.427	1.00	0.17	C
ATOM	1261	HG	LEU	H	91	8.112	11.709	-6.558	1.00	0.17	H
ATOM	1262	CD1	LEU	H	91	8.972	9.822	-7.047	1.00	0.17	C
ATOM	1263	HD11	LEU	H	91	9.916	9.287	-6.928	1.00	0.17	H
ATOM	1264	HD12	LEU	H	91	8.737	9.901	-8.108	1.00	0.17	H
ATOM	1265	HD13	LEU	H	91	8.179	9.258	-6.563	1.00	0.17	H
ATOM	1266	CD2	LEU	H	91	9.355	11.061	-4.933	1.00	0.17	C
ATOM	1267	HD21	LEU	H	91	8.543	10.511	-4.460	1.00	0.17	H
ATOM	1268	HD22	LEU	H	91	9.444	12.042	-4.473	1.00	0.17	H
ATOM	1269	HD23	LEU	H	91	10.286	10.510	-4.786	1.00	0.17	H
ATOM	1270	N	SER	H	92	12.136	14.818	-6.772	1.00	0.21	N
ATOM	1271	H	SER	H	92	11.930	14.780	-5.778	1.00	0.21	H
ATOM	1272	CA	SER	H	92	13.267	15.657	-7.186	1.00	0.21	C
ATOM	1273	HA	SER	H	92	13.294	15.683	-8.272	1.00	0.21	H
ATOM	1274	C	SER	H	92	14.624	15.100	-6.760	1.00	0.21	C
ATOM	1275	CB	SER	H	92	13.055	17.103	-6.715	1.00	0.21	C
ATOM	1276	HB2	SER	H	92	12.257	17.539	-7.319	1.00	0.21	H
ATOM	1277	HB3	SER	H	92	13.961	17.688	-6.881	1.00	0.21	H
ATOM	1278	O	SER	H	92	14.722	14.265	-5.854	1.00	0.21	O
ATOM	1279	OG	SER	H	92	12.668	17.185	-5.355	1.00	0.21	O
ATOM	1280	HG	SER	H	92	13.413	17.003	-4.772	1.00	0.21	H

ATOM	1281	N	SER	H	93	15.679	15.566	-7.437	1.00	0.32	N
ATOM	1282	H	SER	H	93	15.511	16.226	-8.182	1.00	0.32	H
ATOM	1283	CA	SER	H	93	17.080	15.187	-7.192	1.00	0.32	C
ATOM	1284	HA	SER	H	93	17.672	15.550	-8.032	1.00	0.32	H
ATOM	1285	C	SER	H	93	17.251	13.665	-7.154	1.00	0.32	C
ATOM	1286	CB	SER	H	93	17.615	15.870	-5.927	1.00	0.32	C
ATOM	1287	HB2	SER	H	93	17.079	15.497	-5.053	1.00	0.32	H
ATOM	1288	HB3	SER	H	93	18.676	15.643	-5.818	1.00	0.32	H
ATOM	1289	O	SER	H	93	17.639	13.088	-6.135	1.00	0.32	O
ATOM	1290	OG	SER	H	93	17.441	17.273	-6.020	1.00	0.32	O
ATOM	1291	HG	SER	H	93	17.856	17.687	-5.257	1.00	0.32	H
ATOM	1292	N	LEU	H	94	16.820	13.004	-8.229	1.00	0.26	N
ATOM	1293	H	LEU	H	94	16.486	13.551	-9.018	1.00	0.26	H
ATOM	1294	CA	LEU	H	94	16.636	11.555	-8.275	1.00	0.26	C
ATOM	1295	HA	LEU	H	94	16.062	11.269	-7.396	1.00	0.26	H
ATOM	1296	C	LEU	H	94	17.951	10.768	-8.194	1.00	0.26	C
ATOM	1297	CB	LEU	H	94	15.809	11.179	-9.512	1.00	0.26	C
ATOM	1298	HB2	LEU	H	94	15.767	10.093	-9.600	1.00	0.26	H
ATOM	1299	HB3	LEU	H	94	16.313	11.567	-10.399	1.00	0.26	H
ATOM	1300	O	LEU	H	94	19.000	11.183	-8.683	1.00	0.26	O
ATOM	1301	CG	LEU	H	94	14.370	11.724	-9.457	1.00	0.26	C
ATOM	1302	HG	LEU	H	94	14.371	12.794	-9.261	1.00	0.26	H
ATOM	1303	CD1	LEU	H	94	13.692	11.486	-10.796	1.00	0.26	C
ATOM	1304	HD11	LEU	H	94	14.304	11.887	-11.604	1.00	0.26	H
ATOM	1305	HD12	LEU	H	94	12.727	11.984	-10.810	1.00	0.26	H
ATOM	1306	HD13	LEU	H	94	13.551	10.414	-10.930	1.00	0.26	H
ATOM	1307	CD2	LEU	H	94	13.521	11.035	-8.389	1.00	0.26	C
ATOM	1308	HD21	LEU	H	94	13.583	9.951	-8.498	1.00	0.26	H
ATOM	1309	HD22	LEU	H	94	12.485	11.337	-8.515	1.00	0.26	H
ATOM	1310	HD23	LEU	H	94	13.850	11.322	-7.393	1.00	0.26	H
ATOM	1311	N	THR	H	95	17.866	9.597	-7.583	1.00	0.28	N
ATOM	1312	H	THR	H	95	16.950	9.322	-7.236	1.00	0.28	H
ATOM	1313	CA	THR	H	95	18.957	8.683	-7.241	1.00	0.28	C
ATOM	1314	HA	THR	H	95	19.839	8.926	-7.830	1.00	0.28	H
ATOM	1315	C	THR	H	95	18.537	7.254	-7.575	1.00	0.28	C
ATOM	1316	CB	THR	H	95	19.319	8.778	-5.746	1.00	0.28	C
ATOM	1317	HB	THR	H	95	20.186	8.141	-5.573	1.00	0.28	H
ATOM	1318	O	THR	H	95	17.362	6.983	-7.815	1.00	0.28	O
ATOM	1319	CG2	THR	H	95	19.684	10.189	-5.284	1.00	0.28	C
ATOM	1320	HG21	THR	H	95	18.798	10.820	-5.261	1.00	0.28	H
ATOM	1321	HG22	THR	H	95	20.417	10.617	-5.967	1.00	0.28	H
ATOM	1322	HG23	THR	H	95	20.115	10.146	-4.284	1.00	0.28	H
ATOM	1323	OG1	THR	H	95	18.272	8.298	-4.934	1.00	0.28	O

ATOM	1324	HG1	THR	H	95	17.443	8.770	-5.158	1.00	0.28		H
ATOM	1325	N	SER	H	96	19.476	6.309	-7.571	1.00	0.33		N
ATOM	1326	H	SER	H	96	20.424	6.528	-7.304	1.00	0.33		H
ATOM	1327	CA	SER	H	96	19.143	4.893	-7.767	1.00	0.33		C
ATOM	1328	HA	SER	H	96	18.648	4.781	-8.733	1.00	0.33		H
ATOM	1329	C	SER	H	96	18.183	4.361	-6.691	1.00	0.33		C
ATOM	1330	CB	SER	H	96	20.424	4.057	-7.798	1.00	0.33		C
ATOM	1331	HB2	SER	H	96	20.159	2.999	-7.815	1.00	0.33		H
ATOM	1332	HB3	SER	H	96	20.989	4.291	-8.702	1.00	0.33		H
ATOM	1333	O	SER	H	96	17.371	3.497	-7.001	1.00	0.33		O
ATOM	1334	OG	SER	H	96	21.221	4.339	-6.660	1.00	0.33		O
ATOM	1335	HG	SER	H	96	21.778	3.574	-6.481	1.00	0.33		H
ATOM	1336	N	GLU	H	97	18.203	4.918	-5.473	1.00	0.34		N
ATOM	1337	H	GLU	H	97	18.876	5.649	-5.303	1.00	0.34		H
ATOM	1338	CA	GLU	H	97	17.293	4.569	-4.365	1.00	0.34		C
ATOM	1339	HA	GLU	H	97	17.361	3.496	-4.191	1.00	0.34		H
ATOM	1340	C	GLU	H	97	15.826	4.886	-4.703	1.00	0.34		C
ATOM	1341	CB	GLU	H	97	17.753	5.324	-3.096	1.00	0.34		C
ATOM	1342	HB2	GLU	H	97	17.278	6.304	-3.044	1.00	0.34		H
ATOM	1343	HB3	GLU	H	97	18.825	5.508	-3.193	1.00	0.34		H
ATOM	1344	O	GLU	H	97	14.904	4.175	-4.301	1.00	0.34		O
ATOM	1345	CG	GLU	H	97	17.571	4.554	-1.774	1.00	0.34		C
ATOM	1346	HG2	GLU	H	97	17.760	3.494	-1.956	1.00	0.34		H
ATOM	1347	HG3	GLU	H	97	18.349	4.895	-1.090	1.00	0.34		H
ATOM	1348	CD	GLU	H	97	16.222	4.729	-1.056	1.00	0.34		C
ATOM	1349	OE1	GLU	H	97	16.093	4.184	0.066	1.00	0.34		O
ATOM	1350	OE2	GLU	H	97	15.278	5.326	-1.617	1.00	0.34		O
ATOM	1351	N	ASP	H	98	15.603	5.924	-5.515	1.00	0.25		N
ATOM	1352	H	ASP	H	98	16.405	6.439	-5.856	1.00	0.25		H
ATOM	1353	CA	ASP	H	98	14.284	6.294	-6.027	1.00	0.25		C
ATOM	1354	HA	ASP	H	98	13.581	6.266	-5.195	1.00	0.25		H
ATOM	1355	C	ASP	H	98	13.741	5.338	-7.110	1.00	0.25		C
ATOM	1356	CB	ASP	H	98	14.307	7.737	-6.549	1.00	0.25		C
ATOM	1357	HB2	ASP	H	98	14.931	7.783	-7.440	1.00	0.25		H
ATOM	1358	HB3	ASP	H	98	13.297	8.029	-6.843	1.00	0.25		H
ATOM	1359	O	ASP	H	98	12.577	5.478	-7.492	1.00	0.25		O
ATOM	1360	CG	ASP	H	98	14.826	8.746	-5.530	1.00	0.25		C
ATOM	1361	OD1	ASP	H	98	14.117	9.073	-4.560	1.00	0.25		O
ATOM	1362	OD2	ASP	H	98	15.911	9.330	-5.754	1.00	0.25		O
ATOM	1363	N	THR	H	99	14.529	4.369	-7.601	1.00	0.23		N
ATOM	1364	H	THR	H	99	15.449	4.248	-7.190	1.00	0.23		H
ATOM	1365	CA	THR	H	99	14.063	3.360	-8.572	1.00	0.23		C
ATOM	1366	HA	THR	H	99	13.543	3.879	-9.372	1.00	0.23		H

ATOM	1367	C	THR H	99	13.085	2.387	-7.915	1.00	0.23	C
ATOM	1368	CB	THR H	99	15.230	2.589	-9.204	1.00	0.23	C
ATOM	1369	HB	THR H	99	15.841	2.144	-8.421	1.00	0.23	H
ATOM	1370	O	THR H	99	13.476	1.554	-7.098	1.00	0.23	O
ATOM	1371	CG2	THR H	99	14.807	1.472	-10.160	1.00	0.23	C
ATOM	1372	HG21	THR H	99	14.424	0.627	-9.589	1.00	0.23	H
ATOM	1373	HG22	THR H	99	15.671	1.136	-10.734	1.00	0.23	H
ATOM	1374	HG23	THR H	99	14.032	1.820	-10.837	1.00	0.23	H
ATOM	1375	OG1	THR H	99	16.017	3.494	-9.944	1.00	0.23	O
ATOM	1376	HG1	THR H	99	16.507	3.996	-9.284	1.00	0.23	H
ATOM	1377	N	ALA H	100	11.802	2.493	-8.259	1.00	0.18	N
ATOM	1378	H	ALA H	100	11.555	3.144	-8.995	1.00	0.18	H
ATOM	1379	CA	ALA H	100	10.718	1.773	-7.594	1.00	0.18	C
ATOM	1380	HA	ALA H	100	11.007	0.731	-7.451	1.00	0.18	H
ATOM	1381	C	ALA H	100	9.422	1.806	-8.419	1.00	0.18	C
ATOM	1382	CB	ALA H	100	10.497	2.421	-6.219	1.00	0.18	C
ATOM	1383	HB1	ALA H	100	9.688	1.924	-5.687	1.00	0.18	H
ATOM	1384	HB2	ALA H	100	11.404	2.350	-5.623	1.00	0.18	H
ATOM	1385	HB3	ALA H	100	10.243	3.470	-6.343	1.00	0.18	H
ATOM	1386	O	ALA H	100	9.284	2.575	-9.372	1.00	0.18	O
ATOM	1387	N	VAL H	101	8.440	0.995	-8.027	1.00	0.19	N
ATOM	1388	H	VAL H	101	8.607	0.409	-7.213	1.00	0.19	H
ATOM	1389	CA	VAL H	101	7.037	1.207	-8.403	1.00	0.19	C
ATOM	1390	HA	VAL H	101	6.992	1.633	-9.403	1.00	0.19	H
ATOM	1391	C	VAL H	101	6.416	2.210	-7.434	1.00	0.19	C
ATOM	1392	CB	VAL H	101	6.241	-0.112	-8.415	1.00	0.19	C
ATOM	1393	HB	VAL H	101	6.272	-0.566	-7.424	1.00	0.19	H
ATOM	1394	O	VAL H	101	6.586	2.098	-6.224	1.00	0.19	O
ATOM	1395	CG1	VAL H	101	4.774	0.118	-8.807	1.00	0.19	C
ATOM	1396	HG11	VAL H	101	4.261	-0.840	-8.892	1.00	0.19	H
ATOM	1397	HG12	VAL H	101	4.262	0.699	-8.040	1.00	0.19	H
ATOM	1398	HG13	VAL H	101	4.715	0.637	-9.764	1.00	0.19	H
ATOM	1399	CG2	VAL H	101	6.832	-1.103	-9.427	1.00	0.19	C
ATOM	1400	HG21	VAL H	101	7.857	-1.352	-9.155	1.00	0.19	H
ATOM	1401	HG22	VAL H	101	6.811	-0.669	-10.424	1.00	0.19	H
ATOM	1402	HG23	VAL H	101	6.245	-2.023	-9.422	1.00	0.19	H
ATOM	1403	N	TYR H	102	5.678	3.184	-7.953	1.00	0.09	N
ATOM	1404	H	TYR H	102	5.659	3.287	-8.961	1.00	0.09	H
ATOM	1405	CA	TYR H	102	4.937	4.163	-7.160	1.00	0.09	C
ATOM	1406	HA	TYR H	102	5.144	4.028	-6.097	1.00	0.09	H
ATOM	1407	C	TYR H	102	3.441	3.974	-7.382	1.00	0.09	C
ATOM	1408	CB	TYR H	102	5.396	5.571	-7.552	1.00	0.09	C
ATOM	1409	HB2	TYR H	102	5.309	5.686	-8.633	1.00	0.09	H

ATOM	1410	HB3	TYR	H	102	4.731	6.301	-7.087	1.00	0.09		H
ATOM	1411	O	TYR	H	102	2.964	4.122	-8.507	1.00	0.09		O
ATOM	1412	CG	TYR	H	102	6.821	5.866	-7.129	1.00	0.09		C
ATOM	1413	CD1	TYR	H	102	7.907	5.452	-7.925	1.00	0.09		C
ATOM	1414	HD1	TYR	H	102	7.733	4.943	-8.865	1.00	0.09		H
ATOM	1415	CD2	TYR	H	102	7.056	6.499	-5.896	1.00	0.09		C
ATOM	1416	HD2	TYR	H	102	6.216	6.799	-5.292	1.00	0.09		H
ATOM	1417	CE1	TYR	H	102	9.223	5.657	-7.472	1.00	0.09		C
ATOM	1418	HE1	TYR	H	102	10.059	5.298	-8.048	1.00	0.09		H
ATOM	1419	CE2	TYR	H	102	8.373	6.720	-5.449	1.00	0.09		C
ATOM	1420	HE2	TYR	H	102	8.565	7.201	-4.503	1.00	0.09		H
ATOM	1421	OH	TYR	H	102	10.733	6.459	-5.796	1.00	0.09		O
ATOM	1422	HH	TYR	H	102	11.371	6.144	-6.464	1.00	0.09		H
ATOM	1423	CZ	TYR	H	102	9.461	6.292	-6.237	1.00	0.09		C
ATOM	1424	N	TYR	H	103	2.698	3.662	-6.325	1.00	0.11		N
ATOM	1425	H	TYR	H	103	3.159	3.557	-5.426	1.00	0.11		H
ATOM	1426	CA	TYR	H	103	1.237	3.608	-6.331	1.00	0.11		C
ATOM	1427	HA	TYR	H	103	0.886	3.439	-7.347	1.00	0.11		H
ATOM	1428	C	TYR	H	103	0.647	4.914	-5.811	1.00	0.11		C
ATOM	1429	CB	TYR	H	103	0.728	2.448	-5.470	1.00	0.11		C
ATOM	1430	HB2	TYR	H	103	-0.358	2.408	-5.558	1.00	0.11		H
ATOM	1431	HB3	TYR	H	103	0.965	2.649	-4.424	1.00	0.11		H
ATOM	1432	O	TYR	H	103	1.128	5.462	-4.817	1.00	0.11		O
ATOM	1433	CG	TYR	H	103	1.293	1.100	-5.852	1.00	0.11		C
ATOM	1434	CD1	TYR	H	103	0.776	0.406	-6.963	1.00	0.11		C
ATOM	1435	HD1	TYR	H	103	-0.045	0.825	-7.528	1.00	0.11		H
ATOM	1436	CD2	TYR	H	103	2.352	0.553	-5.105	1.00	0.11		C
ATOM	1437	HD2	TYR	H	103	2.754	1.088	-4.255	1.00	0.11		H
ATOM	1438	CE1	TYR	H	103	1.339	-0.825	-7.350	1.00	0.11		C
ATOM	1439	HE1	TYR	H	103	0.970	-1.351	-8.218	1.00	0.11		H
ATOM	1440	CE2	TYR	H	103	2.895	-0.688	-5.473	1.00	0.11		C
ATOM	1441	HE2	TYR	H	103	3.695	-1.111	-4.894	1.00	0.11		H
ATOM	1442	OH	TYR	H	103	2.968	-2.547	-6.978	1.00	0.11		O
ATOM	1443	HH	TYR	H	103	3.659	-2.812	-6.349	1.00	0.11		H
ATOM	1444	CZ	TYR	H	103	2.403	-1.373	-6.604	1.00	0.11		C
ATOM	1445	N	CYS	H	104	-0.438	5.371	-6.423	1.00	0.09		N
ATOM	1446	H	CYS	H	104	-0.759	4.877	-7.251	1.00	0.09		H
ATOM	1447	CA	CYS	H	104	-1.417	6.187	-5.718	1.00	0.09		C
ATOM	1448	HA	CYS	H	104	-0.921	6.750	-4.928	1.00	0.09		H
ATOM	1449	C	CYS	H	104	-2.476	5.283	-5.078	1.00	0.09		C
ATOM	1450	CB	CYS	H	104	-2.045	7.199	-6.671	1.00	0.09		C
ATOM	1451	HB2	CYS	H	104	-2.699	7.849	-6.090	1.00	0.09		H
ATOM	1452	HB3	CYS	H	104	-1.253	7.813	-7.098	1.00	0.09		H

ATOM	1453	O	CYS	H	104	-2.795	4.215	-5.609	1.00	0.09	O
ATOM	1454	SG	CYS	H	104	-3.011	6.482	-8.019	1.00	0.09	S
ATOM	1455	N	ALA	H	105	-3.049	5.725	-3.962	1.00	0.17	N
ATOM	1456	H	ALA	H	105	-2.728	6.594	-3.549	1.00	0.17	H
ATOM	1457	CA	ALA	H	105	-4.167	5.040	-3.335	1.00	0.17	C
ATOM	1458	HA	ALA	H	105	-4.716	4.521	-4.118	1.00	0.17	H
ATOM	1459	C	ALA	H	105	-5.141	6.021	-2.682	1.00	0.17	C
ATOM	1460	CB	ALA	H	105	-3.650	3.979	-2.359	1.00	0.17	C
ATOM	1461	HB1	ALA	H	105	-2.890	3.362	-2.840	1.00	0.17	H
ATOM	1462	HB2	ALA	H	105	-4.482	3.332	-2.086	1.00	0.17	H
ATOM	1463	HB3	ALA	H	105	-3.229	4.450	-1.471	1.00	0.17	H
ATOM	1464	O	ALA	H	105	-4.751	7.047	-2.118	1.00	0.17	O
ATOM	1465	N	ARG	H	106	-6.424	5.692	-2.773	1.00	0.23	N
ATOM	1466	H	ARG	H	106	-6.636	4.802	-3.213	1.00	0.23	H
ATOM	1467	CA	ARG	H	106	-7.513	6.378	-2.094	1.00	0.23	C
ATOM	1468	HA	ARG	H	106	-7.319	7.453	-2.094	1.00	0.23	H
ATOM	1469	C	ARG	H	106	-7.608	5.889	-0.655	1.00	0.23	C
ATOM	1470	CB	ARG	H	106	-8.820	6.082	-2.839	1.00	0.23	C
ATOM	1471	HB2	ARG	H	106	-8.648	6.122	-3.916	1.00	0.23	H
ATOM	1472	HB3	ARG	H	106	-9.145	5.072	-2.590	1.00	0.23	H
ATOM	1473	O	ARG	H	106	-7.333	4.729	-0.356	1.00	0.23	O
ATOM	1474	CG	ARG	H	106	-9.920	7.094	-2.502	1.00	0.23	C
ATOM	1475	HG2	ARG	H	106	-9.922	7.354	-1.446	1.00	0.23	H
ATOM	1476	HG3	ARG	H	106	-9.729	8.001	-3.077	1.00	0.23	H
ATOM	1477	CD	ARG	H	106	-11.297	6.551	-2.869	1.00	0.23	C
ATOM	1478	HD2	ARG	H	106	-11.931	7.417	-3.049	1.00	0.23	H
ATOM	1479	HD3	ARG	H	106	-11.213	5.964	-3.784	1.00	0.23	H
ATOM	1480	NE	ARG	H	106	-11.877	5.715	-1.797	1.00	0.23	N
ATOM	1481	HE	ARG	H	106	-11.236	5.089	-1.298	1.00	0.23	H
ATOM	1482	NH1	ARG	H	106	-14.085	6.306	-2.042	1.00	0.23	N
ATOM	1483	HH11	ARG	H	106	-13.832	6.847	-2.848	1.00	0.23	H
ATOM	1484	HH12	ARG	H	106	-15.027	6.277	-1.710	1.00	0.23	H
ATOM	1485	NH2	ARG	H	106	-13.503	4.957	-0.392	1.00	0.23	N
ATOM	1486	HH21	ARG	H	106	-14.450	4.901	-0.087	1.00	0.23	H
ATOM	1487	HH22	ARG	H	106	-12.774	4.475	0.148	1.00	0.23	H
ATOM	1488	CZ	ARG	H	106	-13.141	5.659	-1.419	1.00	0.23	C
ATOM	1489	N	GLY	H	107	-8.071	6.766	0.218	1.00	0.43	N
ATOM	1490	H	GLY	H	107	-8.145	7.739	-0.058	1.00	0.43	H
ATOM	1491	CA	GLY	H	107	-8.625	6.386	1.504	1.00	0.43	C
ATOM	1492	HA2	GLY	H	107	-9.422	5.654	1.357	1.00	0.43	H
ATOM	1493	HA3	GLY	H	107	-7.847	5.931	2.119	1.00	0.43	H
ATOM	1494	C	GLY	H	107	-9.190	7.598	2.229	1.00	0.43	C
ATOM	1495	O	GLY	H	107	-9.161	8.726	1.737	1.00	0.43	O

ATOM	1496	N	VAL H	108	-9.683	7.366	3.438	1.00	1.45		N
ATOM	1497	H	VAL H	108	-9.711	6.403	3.740	1.00	1.45		H
ATOM	1498	CA	VAL H	108	-9.994	8.429	4.410	1.00	1.45		C
ATOM	1499	HA	VAL H	108	-9.413	9.321	4.175	1.00	1.45		H
ATOM	1500	C	VAL H	108	-9.567	7.976	5.800	1.00	1.45		C
ATOM	1501	CB	VAL H	108	-11.491	8.817	4.392	1.00	1.45		C
ATOM	1502	HB	VAL H	108	-12.093	7.919	4.543	1.00	1.45		H
ATOM	1503	O	VAL H	108	-8.801	8.658	6.474	1.00	1.45		O
ATOM	1504	CG1	VAL H	108	-11.840	9.819	5.502	1.00	1.45		C
ATOM	1505	HG11	VAL H	108	-12.886	10.115	5.417	1.00	1.45		H
ATOM	1506	HG12	VAL H	108	-11.211	10.705	5.418	1.00	1.45		H
ATOM	1507	HG13	VAL H	108	-11.702	9.369	6.485	1.00	1.45		H
ATOM	1508	CG2	VAL H	108	-11.903	9.456	3.064	1.00	1.45		C
ATOM	1509	HG21	VAL H	108	-11.289	10.336	2.881	1.00	1.45		H
ATOM	1510	HG22	VAL H	108	-12.952	9.754	3.096	1.00	1.45		H
ATOM	1511	HG23	VAL H	108	-11.780	8.743	2.251	1.00	1.45		H
ATOM	1512	N	PHE H	109	-10.027	6.790	6.204	1.00	0.81		N
ATOM	1513	H	PHE H	109	-10.691	6.317	5.609	1.00	0.81		H
ATOM	1514	CA	PHE H	109	-9.848	6.234	7.551	1.00	0.81		C
ATOM	1515	HA	PHE H	109	-10.069	7.018	8.277	1.00	0.81		H
ATOM	1516	C	PHE H	109	-8.430	5.731	7.862	1.00	0.81		C
ATOM	1517	CB	PHE H	109	-10.868	5.101	7.735	1.00	0.81		C
ATOM	1518	HB2	PHE H	109	-10.893	4.811	8.786	1.00	0.81		H
ATOM	1519	HB3	PHE H	109	-10.527	4.238	7.162	1.00	0.81		H
ATOM	1520	O	PHE H	109	-8.142	5.397	9.008	1.00	0.81		O
ATOM	1521	CG	PHE H	109	-12.274	5.462	7.290	1.00	0.81		C
ATOM	1522	CD1	PHE H	109	-13.010	6.429	8.001	1.00	0.81		C
ATOM	1523	HD1	PHE H	109	-12.593	6.884	8.887	1.00	0.81		H
ATOM	1524	CD2	PHE H	109	-12.821	4.881	6.129	1.00	0.81		C
ATOM	1525	HD2	PHE H	109	-12.263	4.139	5.573	1.00	0.81		H
ATOM	1526	CE1	PHE H	109	-14.287	6.814	7.553	1.00	0.81		C
ATOM	1527	HE1	PHE H	109	-14.851	7.557	8.098	1.00	0.81		H
ATOM	1528	CE2	PHE H	109	-14.098	5.264	5.684	1.00	0.81		C
ATOM	1529	HE2	PHE H	109	-14.518	4.811	4.797	1.00	0.81		H
ATOM	1530	CZ	PHE H	109	-14.830	6.232	6.394	1.00	0.81		C
ATOM	1531	HZ	PHE H	109	-15.813	6.525	6.052	1.00	0.81		H
ATOM	1532	N	GLY H	113	-7.557	5.667	6.855	1.00	0.55		N
ATOM	1533	H	GLY H	113	-7.881	5.952	5.944	1.00	0.55		H
ATOM	1534	CA	GLY H	113	-6.133	5.363	6.994	1.00	0.55		C
ATOM	1535	HA2	GLY H	113	-5.573	6.106	6.428	1.00	0.55		H
ATOM	1536	HA3	GLY H	113	-5.843	5.466	8.037	1.00	0.55		H
ATOM	1537	C	GLY H	113	-5.705	3.985	6.479	1.00	0.55		C
ATOM	1538	O	GLY H	113	-4.517	3.787	6.225	1.00	0.55		O

ATOM	1539	N	PHE	H	114	-6.643	3.065	6.245	1.00	0.39	N
ATOM	1540	H	PHE	H	114	-7.595	3.290	6.485	1.00	0.39	H
ATOM	1541	CA	PHE	H	114	-6.446	2.000	5.259	1.00	0.39	C
ATOM	1542	HA	PHE	H	114	-5.407	1.664	5.295	1.00	0.39	H
ATOM	1543	C	PHE	H	114	-6.695	2.542	3.842	1.00	0.39	C
ATOM	1544	CB	PHE	H	114	-7.327	0.790	5.593	1.00	0.39	C
ATOM	1545	HB2	PHE	H	114	-7.159	0.014	4.845	1.00	0.39	H
ATOM	1546	HB3	PHE	H	114	-6.990	0.389	6.548	1.00	0.39	H
ATOM	1547	O	PHE	H	114	-7.360	3.570	3.670	1.00	0.39	O
ATOM	1548	CG	PHE	H	114	-8.817	1.059	5.692	1.00	0.39	C
ATOM	1549	CD1	PHE	H	114	-9.631	0.978	4.548	1.00	0.39	C
ATOM	1550	HD1	PHE	H	114	-9.197	0.772	3.581	1.00	0.39	H
ATOM	1551	CD2	PHE	H	114	-9.399	1.336	6.944	1.00	0.39	C
ATOM	1552	HD2	PHE	H	114	-8.777	1.408	7.822	1.00	0.39	H
ATOM	1553	CE1	PHE	H	114	-11.023	1.132	4.661	1.00	0.39	C
ATOM	1554	HE1	PHE	H	114	-11.650	1.029	3.785	1.00	0.39	H
ATOM	1555	CE2	PHE	H	114	-10.792	1.486	7.058	1.00	0.39	C
ATOM	1556	HE2	PHE	H	114	-11.245	1.667	8.022	1.00	0.39	H
ATOM	1557	CZ	PHE	H	114	-11.605	1.373	5.917	1.00	0.39	C
ATOM	1558	HZ	PHE	H	114	-12.680	1.454	6.004	1.00	0.39	H
ATOM	1559	N	PHE	H	115	-6.133	1.867	2.841	1.00	0.21	N
ATOM	1560	H	PHE	H	115	-5.596	1.034	3.052	1.00	0.21	H
ATOM	1561	CA	PHE	H	115	-6.115	2.314	1.450	1.00	0.21	C
ATOM	1562	HA	PHE	H	115	-6.534	3.316	1.395	1.00	0.21	H
ATOM	1563	C	PHE	H	115	-6.998	1.393	0.605	1.00	0.21	C
ATOM	1564	CB	PHE	H	115	-4.659	2.395	0.968	1.00	0.21	C
ATOM	1565	HB2	PHE	H	115	-4.290	1.382	0.809	1.00	0.21	H
ATOM	1566	HB3	PHE	H	115	-4.650	2.909	0.014	1.00	0.21	H
ATOM	1567	O	PHE	H	115	-6.628	0.258	0.305	1.00	0.21	O
ATOM	1568	CG	PHE	H	115	-3.697	3.110	1.909	1.00	0.21	C
ATOM	1569	CD1	PHE	H	115	-4.086	4.280	2.592	1.00	0.21	C
ATOM	1570	HD1	PHE	H	115	-5.059	4.716	2.415	1.00	0.21	H
ATOM	1571	CD2	PHE	H	115	-2.431	2.552	2.165	1.00	0.21	C
ATOM	1572	HD2	PHE	H	115	-2.136	1.646	1.660	1.00	0.21	H
ATOM	1573	CE1	PHE	H	115	-3.242	4.842	3.564	1.00	0.21	C
ATOM	1574	HE1	PHE	H	115	-3.592	5.679	4.147	1.00	0.21	H
ATOM	1575	CE2	PHE	H	115	-1.571	3.139	3.110	1.00	0.21	C
ATOM	1576	HE2	PHE	H	115	-0.617	2.686	3.335	1.00	0.21	H
ATOM	1577	CZ	PHE	H	115	-1.982	4.276	3.820	1.00	0.21	C
ATOM	1578	HZ	PHE	H	115	-1.340	4.682	4.587	1.00	0.21	H
ATOM	1579	N	ASP	H	116	-8.208	1.853	0.300	1.00	0.31	N
ATOM	1580	H	ASP	H	116	-8.395	2.840	0.438	1.00	0.31	H
ATOM	1581	CA	ASP	H	116	-9.301	1.009	-0.197	1.00	0.31	C

ATOM	1582	HA	ASP H 116	-9.190	0.012	0.231	1.00	0.31		H
ATOM	1583	C	ASP H 116	-9.275	0.798	-1.721	1.00	0.31		C
ATOM	1584	CB	ASP H 116	-10.646	1.559	0.315	1.00	0.31		C
ATOM	1585	HB2	ASP H 116	-11.459	1.064	-0.217	1.00	0.31		H
ATOM	1586	HB3	ASP H 116	-10.732	1.285	1.368	1.00	0.31		H
ATOM	1587	O	ASP H 116	-9.630	-0.282	-2.190	1.00	0.31		O
ATOM	1588	CG	ASP H 116	-10.832	3.079	0.208	1.00	0.31		C
ATOM	1589	OD1	ASP H 116	-10.286	3.724	-0.713	1.00	0.31		O
ATOM	1590	OD2	ASP H 116	-11.599	3.650	1.012	1.00	0.31		O
ATOM	1591	N	TYR H 117	-8.782	1.773	-2.492	1.00	0.30		N
ATOM	1592	H	TYR H 117	-8.542	2.644	-2.033	1.00	0.30		H
ATOM	1593	CA	TYR H 117	-8.592	1.665	-3.945	1.00	0.30		C
ATOM	1594	HA	TYR H 117	-8.701	0.621	-4.241	1.00	0.30		H
ATOM	1595	C	TYR H 117	-7.190	2.116	-4.350	1.00	0.30		C
ATOM	1596	CB	TYR H 117	-9.660	2.471	-4.700	1.00	0.30		C
ATOM	1597	HB2	TYR H 117	-9.396	2.490	-5.759	1.00	0.30		H
ATOM	1598	HB3	TYR H 117	-9.652	3.502	-4.347	1.00	0.30		H
ATOM	1599	O	TYR H 117	-6.763	3.208	-3.988	1.00	0.30		O
ATOM	1600	CG	TYR H 117	-11.064	1.910	-4.571	1.00	0.30		C
ATOM	1601	CD1	TYR H 117	-11.543	0.985	-5.519	1.00	0.30		C
ATOM	1602	HD1	TYR H 117	-10.923	0.689	-6.354	1.00	0.30		H
ATOM	1603	CD2	TYR H 117	-11.879	2.290	-3.487	1.00	0.30		C
ATOM	1604	HD2	TYR H 117	-11.497	2.982	-2.751	1.00	0.30		H
ATOM	1605	CE1	TYR H 117	-12.828	0.429	-5.374	1.00	0.30		C
ATOM	1606	HE1	TYR H 117	-13.199	-0.287	-6.091	1.00	0.30		H
ATOM	1607	CE2	TYR H 117	-13.163	1.734	-3.335	1.00	0.30		C
ATOM	1608	HE2	TYR H 117	-13.772	2.008	-2.489	1.00	0.30		H
ATOM	1609	OH	TYR H 117	-14.871	0.250	-4.137	1.00	0.30		O
ATOM	1610	HH	TYR H 117	-15.149	0.243	-3.220	1.00	0.30		H
ATOM	1611	CZ	TYR H 117	-13.637	0.799	-4.280	1.00	0.30		C
ATOM	1612	N	TRP H 118	-6.492	1.294	-5.131	1.00	0.17		N
ATOM	1613	H	TRP H 118	-6.928	0.442	-5.449	1.00	0.17		H
ATOM	1614	CA	TRP H 118	-5.121	1.539	-5.589	1.00	0.17		C
ATOM	1615	HA	TRP H 118	-4.723	2.435	-5.113	1.00	0.17		H
ATOM	1616	C	TRP H 118	-5.089	1.764	-7.103	1.00	0.17		C
ATOM	1617	CB	TRP H 118	-4.220	0.365	-5.177	1.00	0.17		C
ATOM	1618	HB2	TRP H 118	-4.635	-0.561	-5.577	1.00	0.17		H
ATOM	1619	HB3	TRP H 118	-3.245	0.508	-5.645	1.00	0.17		H
ATOM	1620	O	TRP H 118	-5.898	1.196	-7.837	1.00	0.17		O
ATOM	1621	CG	TRP H 118	-3.996	0.189	-3.701	1.00	0.17		C
ATOM	1622	CD1	TRP H 118	-4.950	-0.051	-2.772	1.00	0.17		C
ATOM	1623	HD1	TRP H 118	-6.009	-0.151	-2.968	1.00	0.17		H
ATOM	1624	CD2	TRP H 118	-2.733	0.206	-2.963	1.00	0.17		C

ATOM	1625	CE2	TRP	H	118	-3.005	-0.047	-1.585	1.00	0.17	C
ATOM	1626	CE3	TRP	H	118	-1.381	0.386	-3.325	1.00	0.17	C
ATOM	1627	HE3	TRP	H	118	-1.141	0.560	-4.362	1.00	0.17	H
ATOM	1628	NE1	TRP	H	118	-4.378	-0.147	-1.523	1.00	0.17	N
ATOM	1629	HE1	TRP	H	118	-4.938	-0.252	-0.681	1.00	0.17	H
ATOM	1630	CH2	TRP	H	118	-0.649	0.020	-1.025	1.00	0.17	C
ATOM	1631	HH2	TRP	H	118	0.152	-0.081	-0.309	1.00	0.17	H
ATOM	1632	CZ2	TRP	H	118	-1.987	-0.148	-0.624	1.00	0.17	C
ATOM	1633	HZ2	TRP	H	118	-2.232	-0.373	0.402	1.00	0.17	H
ATOM	1634	CZ3	TRP	H	118	-0.350	0.299	-2.370	1.00	0.17	C
ATOM	1635	HZ3	TRP	H	118	0.679	0.420	-2.679	1.00	0.17	H
ATOM	1636	N	GLY	H	119	-4.154	2.590	-7.573	1.00	0.14	N
ATOM	1637	H	GLY	H	119	-3.534	3.041	-6.908	1.00	0.14	H
ATOM	1638	CA	GLY	H	119	-3.785	2.643	-8.988	1.00	0.14	C
ATOM	1639	HA2	GLY	H	119	-3.239	3.561	-9.189	1.00	0.14	H
ATOM	1640	HA3	GLY	H	119	-4.680	2.629	-9.609	1.00	0.14	H
ATOM	1641	C	GLY	H	119	-2.919	1.449	-9.382	1.00	0.14	C
ATOM	1642	O	GLY	H	119	-2.389	0.745	-8.523	1.00	0.14	O
ATOM	1643	N	GLN	H	120	-2.739	1.217	-10.684	1.00	0.14	N
ATOM	1644	H	GLN	H	120	-3.167	1.836	-11.365	1.00	0.14	H
ATOM	1645	CA	GLN	H	120	-1.973	0.067	-11.183	1.00	0.14	C
ATOM	1646	HA	GLN	H	120	-2.347	-0.813	-10.658	1.00	0.14	H
ATOM	1647	C	GLN	H	120	-0.464	0.134	-10.879	1.00	0.14	C
ATOM	1648	CB	GLN	H	120	-2.259	-0.151	-12.683	1.00	0.14	C
ATOM	1649	HB2	GLN	H	120	-2.059	-1.204	-12.889	1.00	0.14	H
ATOM	1650	HB3	GLN	H	120	-3.320	0.011	-12.882	1.00	0.14	H
ATOM	1651	O	GLN	H	120	0.249	-0.840	-11.109	1.00	0.14	O
ATOM	1652	CG	GLN	H	120	-1.419	0.661	-13.690	1.00	0.14	C
ATOM	1653	HG2	GLN	H	120	-0.358	0.539	-13.478	1.00	0.14	H
ATOM	1654	HG3	GLN	H	120	-1.588	0.227	-14.676	1.00	0.14	H
ATOM	1655	CD	GLN	H	120	-1.741	2.150	-13.798	1.00	0.14	C
ATOM	1656	NE2	GLN	H	120	-1.061	2.848	-14.682	1.00	0.14	N
ATOM	1657	HE21	GLN	H	120	-0.249	2.441	-15.111	1.00	0.14	H
ATOM	1658	HE22	GLN	H	120	-1.271	3.831	-14.796	1.00	0.14	H
ATOM	1659	OE1	GLN	H	120	-2.610	2.705	-13.138	1.00	0.14	O
ATOM	1660	N	GLY	H	121	0.019	1.269	-10.367	1.00	0.08	N
ATOM	1661	H	GLY	H	121	-0.637	2.001	-10.141	1.00	0.08	H
ATOM	1662	CA	GLY	H	121	1.433	1.548	-10.163	1.00	0.08	C
ATOM	1663	HA2	GLY	H	121	1.529	2.225	-9.317	1.00	0.08	H
ATOM	1664	HA3	GLY	H	121	1.964	0.628	-9.914	1.00	0.08	H
ATOM	1665	C	GLY	H	121	2.097	2.173	-11.389	1.00	0.08	C
ATOM	1666	O	GLY	H	121	1.694	1.964	-12.534	1.00	0.08	O
ATOM	1667	N	THR	H	122	3.147	2.948	-11.133	1.00	0.12	N

ATOM	1668	H	THR H 122	3.347	3.163	-10.163	1.00	0.12		H
ATOM	1669	CA	THR H 122	4.013	3.542	-12.151	1.00	0.12		C
ATOM	1670	HA	THR H 122	3.774	3.129	-13.130	1.00	0.12		H
ATOM	1671	C	THR H 122	5.456	3.191	-11.812	1.00	0.12		C
ATOM	1672	CB	THR H 122	3.821	5.066	-12.221	1.00	0.12		C
ATOM	1673	HB	THR H 122	4.047	5.499	-11.246	1.00	0.12		H
ATOM	1674	O	THR H 122	5.972	3.623	-10.782	1.00	0.12		O
ATOM	1675	CG2	THR H 122	4.730	5.697	-13.268	1.00	0.12		C
ATOM	1676	HG21	THR H 122	4.701	5.105	-14.180	1.00	0.12		H
ATOM	1677	HG22	THR H 122	4.397	6.710	-13.491	1.00	0.12		H
ATOM	1678	HG23	THR H 122	5.757	5.733	-12.902	1.00	0.12		H
ATOM	1679	OG1	THR H 122	2.493	5.414	-12.555	1.00	0.12		O
ATOM	1680	HG1	THR H 122	2.360	5.254	-13.506	1.00	0.12		H
ATOM	1681	N	THR H 123	6.107	2.382	-12.649	1.00	0.11		N
ATOM	1682	H	THR H 123	5.618	1.986	-13.438	1.00	0.11		H
ATOM	1683	CA	THR H 123	7.537	2.075	-12.511	1.00	0.11		C
ATOM	1684	HA	THR H 123	7.752	1.809	-11.477	1.00	0.11		H
ATOM	1685	C	THR H 123	8.366	3.298	-12.883	1.00	0.11		C
ATOM	1686	CB	THR H 123	7.941	0.898	-13.410	1.00	0.11		C
ATOM	1687	HB	THR H 123	7.815	1.185	-14.455	1.00	0.11		H
ATOM	1688	O	THR H 123	8.205	3.834	-13.977	1.00	0.11		O
ATOM	1689	CG2	THR H 123	9.383	0.444	-13.188	1.00	0.11		C
ATOM	1690	HG21	THR H 123	9.583	-0.445	-13.788	1.00	0.11		H
ATOM	1691	HG22	THR H 123	10.074	1.227	-13.502	1.00	0.11		H
ATOM	1692	HG23	THR H 123	9.555	0.219	-12.135	1.00	0.11		H
ATOM	1693	OG1	THR H 123	7.113	-0.211	-13.154	1.00	0.11		O
ATOM	1694	HG1	THR H 123	7.439	-0.649	-12.365	1.00	0.11		H
ATOM	1695	N	LEU H 124	9.262	3.713	-11.995	1.00	0.13		N
ATOM	1696	H	LEU H 124	9.303	3.242	-11.095	1.00	0.13		H
ATOM	1697	CA	LEU H 124	10.267	4.743	-12.229	1.00	0.13		C
ATOM	1698	HA	LEU H 124	10.104	5.216	-13.199	1.00	0.13		H
ATOM	1699	C	LEU H 124	11.649	4.090	-12.214	1.00	0.13		C
ATOM	1700	CB	LEU H 124	10.125	5.800	-11.121	1.00	0.13		C
ATOM	1701	HB2	LEU H 124	10.225	5.283	-10.171	1.00	0.13		H
ATOM	1702	HB3	LEU H 124	9.124	6.232	-11.165	1.00	0.13		H
ATOM	1703	O	LEU H 124	12.035	3.502	-11.204	1.00	0.13		O
ATOM	1704	CG	LEU H 124	11.168	6.930	-11.152	1.00	0.13		C
ATOM	1705	HG	LEU H 124	12.176	6.515	-11.132	1.00	0.13		H
ATOM	1706	CD1	LEU H 124	11.005	7.779	-12.409	1.00	0.13		C
ATOM	1707	HD11	LEU H 124	9.965	8.085	-12.521	1.00	0.13		H
ATOM	1708	HD12	LEU H 124	11.313	7.208	-13.284	1.00	0.13		H
ATOM	1709	HD13	LEU H 124	11.629	8.664	-12.339	1.00	0.13		H
ATOM	1710	CD2	LEU H 124	10.998	7.830	-9.927	1.00	0.13		C

ATOM	1711	HD21	LEU	H	124	9.984	8.225	-9.887	1.00	0.13	H
ATOM	1712	HD22	LEU	H	124	11.193	7.252	-9.023	1.00	0.13	H
ATOM	1713	HD23	LEU	H	124	11.714	8.650	-9.966	1.00	0.13	H
ATOM	1714	N	THR	H	125	12.392	4.205	-13.311	1.00	0.28	N
ATOM	1715	H	THR	H	125	11.992	4.680	-14.117	1.00	0.28	H
ATOM	1716	CA	THR	H	125	13.782	3.738	-13.409	1.00	0.28	C
ATOM	1717	HA	THR	H	125	14.034	3.124	-12.548	1.00	0.28	H
ATOM	1718	C	THR	H	125	14.725	4.932	-13.438	1.00	0.28	C
ATOM	1719	CB	THR	H	125	13.979	2.877	-14.663	1.00	0.28	C
ATOM	1720	HB	THR	H	125	13.791	3.486	-15.547	1.00	0.28	H
ATOM	1721	O	THR	H	125	14.596	5.786	-14.315	1.00	0.28	O
ATOM	1722	CG2	THR	H	125	15.383	2.278	-14.751	1.00	0.28	C
ATOM	1723	HG21	THR	H	125	15.603	1.714	-13.844	1.00	0.28	H
ATOM	1724	HG22	THR	H	125	16.123	3.068	-14.878	1.00	0.28	H
ATOM	1725	HG23	THR	H	125	15.436	1.609	-15.610	1.00	0.28	H
ATOM	1726	OG1	THR	H	125	13.061	1.811	-14.655	1.00	0.28	O
ATOM	1727	HG1	THR	H	125	12.187	2.206	-14.728	1.00	0.28	H
ATOM	1728	N	VAL	H	126	15.682	4.997	-12.508	1.00	0.27	N
ATOM	1729	H	VAL	H	126	15.733	4.279	-11.789	1.00	0.27	H
ATOM	1730	CA	VAL	H	126	16.688	6.067	-12.470	1.00	0.27	C
ATOM	1731	HA	VAL	H	126	16.372	6.860	-13.141	1.00	0.27	H
ATOM	1732	C	VAL	H	126	18.032	5.537	-12.969	1.00	0.27	C
ATOM	1733	CB	VAL	H	126	16.791	6.718	-11.078	1.00	0.27	C
ATOM	1734	HB	VAL	H	126	17.195	6.000	-10.364	1.00	0.27	H
ATOM	1735	O	VAL	H	126	18.714	4.796	-12.265	1.00	0.27	O
ATOM	1736	CG1	VAL	H	126	17.721	7.938	-11.140	1.00	0.27	C
ATOM	1737	HG11	VAL	H	126	17.752	8.426	-10.169	1.00	0.27	H
ATOM	1738	HG12	VAL	H	126	18.731	7.625	-11.400	1.00	0.27	H
ATOM	1739	HG13	VAL	H	126	17.354	8.647	-11.884	1.00	0.27	H
ATOM	1740	CG2	VAL	H	126	15.417	7.188	-10.578	1.00	0.27	C
ATOM	1741	HG21	VAL	H	126	14.767	6.330	-10.406	1.00	0.27	H
ATOM	1742	HG22	VAL	H	126	15.531	7.713	-9.633	1.00	0.27	H
ATOM	1743	HG23	VAL	H	126	14.955	7.851	-11.308	1.00	0.27	H
ATOM	1744	N	SER	H	127	18.421	5.926	-14.185	1.00	0.29	N
ATOM	1745	H	SER	H	127	17.827	6.586	-14.679	1.00	0.29	H
ATOM	1746	CA	SER	H	127	19.652	5.475	-14.853	1.00	0.29	C
ATOM	1747	HA	SER	H	127	20.377	5.162	-14.101	1.00	0.29	H
ATOM	1748	C	SER	H	127	20.272	6.582	-15.696	1.00	0.29	C
ATOM	1749	CB	SER	H	127	19.378	4.277	-15.770	1.00	0.29	C
ATOM	1750	HB2	SER	H	127	19.025	3.439	-15.168	1.00	0.29	H
ATOM	1751	HB3	SER	H	127	18.604	4.541	-16.491	1.00	0.29	H
ATOM	1752	O	SER	H	127	19.559	7.309	-16.395	1.00	0.29	O
ATOM	1753	OG	SER	H	127	20.553	3.890	-16.471	1.00	0.29	O

ATOM	1754	HG	SER H	127	20.795	4.551	-17.158	1.00	0.29		H
ATOM	1755	N	SER H	128	21.608	6.652	-15.705	1.00	0.28		N
ATOM	1756	H	SER H	128	22.114	5.945	-15.188	1.00	0.28		H
ATOM	1757	CA	SER H	128	22.380	7.369	-16.736	1.00	0.28		C
ATOM	1758	HA	SER H	128	22.128	8.425	-16.707	1.00	0.28		H
ATOM	1759	C	SER H	128	22.038	6.888	-18.141	1.00	0.28		C
ATOM	1760	CB	SER H	128	23.877	7.238	-16.468	1.00	0.28		C
ATOM	1761	HB2	SER H	128	24.442	7.695	-17.285	1.00	0.28		H
ATOM	1762	HB3	SER H	128	24.131	7.748	-15.537	1.00	0.28		H
ATOM	1763	O	SER H	128	22.137	7.730	-19.055	1.00	0.28		O
ATOM	1764	OG	SER H	128	24.200	5.867	-16.358	1.00	0.28		O
ATOM	1765	HG	SER H	128	23.836	5.407	-17.126	1.00	0.28		H
ATOM	1766	OXT	SER H	128	21.457	5.787	-18.273	1.00	0.28		O
TER	1767		SER H	128							
ATOM	1768	N	ASP L	1	7.372	6.187	15.281	1.00	0.49		N
ATOM	1769	H	ASP L	1	8.211	5.756	15.639	1.00	0.49		H
ATOM	1770	H2	ASP L	1	7.566	7.142	14.991	1.00	0.49		H
ATOM	1771	H3	ASP L	1	6.665	6.150	16.008	1.00	0.49		H
ATOM	1772	CA	ASP L	1	6.909	5.429	14.102	1.00	0.49		C
ATOM	1773	HA	ASP L	1	5.947	5.835	13.790	1.00	0.49		H
ATOM	1774	C	ASP L	1	6.722	3.997	14.521	1.00	0.49		C
ATOM	1775	CB	ASP L	1	7.860	5.462	12.882	1.00	0.49		C
ATOM	1776	HB2	ASP L	1	8.742	4.861	13.111	1.00	0.49		H
ATOM	1777	HB3	ASP L	1	7.348	4.997	12.039	1.00	0.49		H
ATOM	1778	O	ASP L	1	7.633	3.430	15.120	1.00	0.49		O
ATOM	1779	CG	ASP L	1	8.346	6.851	12.464	1.00	0.49		C
ATOM	1780	OD1	ASP L	1	8.101	7.790	13.253	1.00	0.49		O
ATOM	1781	OD2	ASP L	1	8.966	6.946	11.380	1.00	0.49		O
ATOM	1782	N	ILE L	2	5.580	3.422	14.171	1.00	0.38		N
ATOM	1783	H	ILE L	2	4.884	3.962	13.680	1.00	0.38		H
ATOM	1784	CA	ILE L	2	5.244	2.041	14.500	1.00	0.38		C
ATOM	1785	HA	ILE L	2	5.589	1.831	15.514	1.00	0.38		H
ATOM	1786	C	ILE L	2	5.959	1.108	13.516	1.00	0.38		C
ATOM	1787	CB	ILE L	2	3.713	1.840	14.436	1.00	0.38		C
ATOM	1788	HB	ILE L	2	3.452	1.715	13.388	1.00	0.38		H
ATOM	1789	O	ILE L	2	5.850	1.304	12.307	1.00	0.38		O
ATOM	1790	CG1	ILE L	2	2.933	3.088	14.928	1.00	0.38		C
ATOM	1791	HG12	ILE L	2	2.942	3.835	14.133	1.00	0.38		H
ATOM	1792	HG13	ILE L	2	3.436	3.523	15.786	1.00	0.38		H
ATOM	1793	CG2	ILE L	2	3.353	0.527	15.156	1.00	0.38		C
ATOM	1794	HG21	ILE L	2	2.310	0.281	14.973	1.00	0.38		H
ATOM	1795	HG22	ILE L	2	3.953	-0.299	14.776	1.00	0.38		H
ATOM	1796	HG23	ILE L	2	3.509	0.622	16.228	1.00	0.38		H

ATOM	1797	CD1	ILE	L	2	1.480	2.861	15.326	1.00	0.38	C
ATOM	1798	HD11	ILE	L	2	1.459	2.332	16.276	1.00	0.38	H
ATOM	1799	HD12	ILE	L	2	0.961	2.292	14.558	1.00	0.38	H
ATOM	1800	HD13	ILE	L	2	0.980	3.818	15.455	1.00	0.38	H
ATOM	1801	N	GLN	L	3	6.671	0.083	13.978	1.00	0.33	N
ATOM	1802	H	GLN	L	3	6.722	-0.058	14.980	1.00	0.33	H
ATOM	1803	CA	GLN	L	3	7.188	-0.980	13.105	1.00	0.33	C
ATOM	1804	HA	GLN	L	3	7.265	-0.605	12.084	1.00	0.33	H
ATOM	1805	C	GLN	L	3	6.201	-2.145	13.099	1.00	0.33	C
ATOM	1806	CB	GLN	L	3	8.591	-1.467	13.509	1.00	0.33	C
ATOM	1807	HB2	GLN	L	3	8.870	-2.275	12.831	1.00	0.33	H
ATOM	1808	HB3	GLN	L	3	8.559	-1.885	14.508	1.00	0.33	H
ATOM	1809	O	GLN	L	3	5.745	-2.573	14.159	1.00	0.33	O
ATOM	1810	CG	GLN	L	3	9.696	-0.400	13.434	1.00	0.33	C
ATOM	1811	HG2	GLN	L	3	9.667	0.073	12.453	1.00	0.33	H
ATOM	1812	HG3	GLN	L	3	10.665	-0.886	13.545	1.00	0.33	H
ATOM	1813	CD	GLN	L	3	9.577	0.659	14.524	1.00	0.33	C
ATOM	1814	NE2	GLN	L	3	9.773	1.912	14.197	1.00	0.33	N
ATOM	1815	HE21	GLN	L	3	9.376	2.574	14.855	1.00	0.33	H
ATOM	1816	HE22	GLN	L	3	9.973	2.172	13.251	1.00	0.33	H
ATOM	1817	OE1	GLN	L	3	9.262	0.383	15.672	1.00	0.33	O
ATOM	1818	N	MET	L	4	5.894	-2.661	11.909	1.00	0.23	N
ATOM	1819	H	MET	L	4	6.312	-2.253	11.086	1.00	0.23	H
ATOM	1820	CA	MET	L	4	4.907	-3.722	11.699	1.00	0.23	C
ATOM	1821	HA	MET	L	4	4.378	-3.911	12.633	1.00	0.23	H
ATOM	1822	C	MET	L	4	5.576	-5.048	11.320	1.00	0.23	C
ATOM	1823	CB	MET	L	4	3.875	-3.255	10.662	1.00	0.23	C
ATOM	1824	HB2	MET	L	4	4.383	-3.032	9.727	1.00	0.23	H
ATOM	1825	HB3	MET	L	4	3.167	-4.060	10.476	1.00	0.23	H
ATOM	1826	O	MET	L	4	5.553	-5.492	10.176	1.00	0.23	O
ATOM	1827	CG	MET	L	4	3.100	-2.005	11.103	1.00	0.23	C
ATOM	1828	HG2	MET	L	4	2.313	-1.819	10.372	1.00	0.23	H
ATOM	1829	HG3	MET	L	4	3.772	-1.147	11.083	1.00	0.23	H
ATOM	1830	SD	MET	L	4	2.342	-2.090	12.752	1.00	0.23	S
ATOM	1831	CE	MET	L	4	1.391	-3.619	12.586	1.00	0.23	C
ATOM	1832	HE1	MET	L	4	0.681	-3.715	13.403	1.00	0.23	H
ATOM	1833	HE2	MET	L	4	0.854	-3.617	11.637	1.00	0.23	H
ATOM	1834	HE3	MET	L	4	2.074	-4.465	12.623	1.00	0.23	H
ATOM	1835	N	THR	L	5	6.210	-5.705	12.282	1.00	0.26	N
ATOM	1836	H	THR	L	5	6.144	-5.354	13.233	1.00	0.26	H
ATOM	1837	CA	THR	L	5	6.998	-6.919	12.040	1.00	0.26	C
ATOM	1838	HA	THR	L	5	7.707	-6.714	11.239	1.00	0.26	H
ATOM	1839	C	THR	L	5	6.120	-8.100	11.616	1.00	0.26	C

ATOM	1840	CB	THR L	5	7.815	-7.273	13.290	1.00	0.26	C
ATOM	1841	HB	THR L	5	7.144	-7.421	14.137	1.00	0.26	H
ATOM	1842	O	THR L	5	5.414	-8.684	12.440	1.00	0.26	O
ATOM	1843	CG2	THR L	5	8.687	-8.518	13.114	1.00	0.26	C
ATOM	1844	HG21	THR L	5	9.309	-8.662	13.997	1.00	0.26	H
ATOM	1845	HG22	THR L	5	8.061	-9.402	12.988	1.00	0.26	H
ATOM	1846	HG23	THR L	5	9.327	-8.403	12.239	1.00	0.26	H
ATOM	1847	OG1	THR L	5	8.691	-6.209	13.580	1.00	0.26	O
ATOM	1848	HG1	THR L	5	9.145	-6.410	14.400	1.00	0.26	H
ATOM	1849	N	GLN L	6	6.204	-8.499	10.345	1.00	0.33	N
ATOM	1850	H	GLN L	6	6.754	-7.944	9.709	1.00	0.33	H
ATOM	1851	CA	GLN L	6	5.755	-9.816	9.884	1.00	0.33	C
ATOM	1852	HA	GLN L	6	4.912	-10.140	10.493	1.00	0.33	H
ATOM	1853	C	GLN L	6	6.887	-10.823	10.085	1.00	0.33	C
ATOM	1854	CB	GLN L	6	5.277	-9.765	8.426	1.00	0.33	C
ATOM	1855	HB2	GLN L	6	6.036	-9.300	7.794	1.00	0.33	H
ATOM	1856	HB3	GLN L	6	5.103	-10.783	8.078	1.00	0.33	H
ATOM	1857	O	GLN L	6	7.933	-10.743	9.450	1.00	0.33	O
ATOM	1858	CG	GLN L	6	3.968	-8.973	8.348	1.00	0.33	C
ATOM	1859	HG2	GLN L	6	3.226	-9.454	8.984	1.00	0.33	H
ATOM	1860	HG3	GLN L	6	4.137	-7.961	8.714	1.00	0.33	H
ATOM	1861	CD	GLN L	6	3.396	-8.888	6.943	1.00	0.33	C
ATOM	1862	NE2	GLN L	6	3.076	-9.989	6.307	1.00	0.33	N
ATOM	1863	HE21	GLN L	6	2.695	-9.899	5.372	1.00	0.33	H
ATOM	1864	HE22	GLN L	6	3.374	-10.902	6.642	1.00	0.33	H
ATOM	1865	OE1	GLN L	6	3.237	-7.810	6.391	1.00	0.33	O
ATOM	1866	N	SER L	7	6.698	-11.757	11.014	1.00	0.41	N
ATOM	1867	H	SER L	7	5.804	-11.785	11.486	1.00	0.41	H
ATOM	1868	CA	SER L	7	7.727	-12.700	11.483	1.00	0.41	C
ATOM	1869	HA	SER L	7	8.676	-12.166	11.546	1.00	0.41	H
ATOM	1870	C	SER L	7	7.962	-13.898	10.546	1.00	0.41	C
ATOM	1871	CB	SER L	7	7.354	-13.157	12.897	1.00	0.41	C
ATOM	1872	HB2	SER L	7	7.315	-12.284	13.551	1.00	0.41	H
ATOM	1873	HB3	SER L	7	8.108	-13.845	13.284	1.00	0.41	H
ATOM	1874	O	SER L	7	8.351	-14.971	10.999	1.00	0.41	O
ATOM	1875	OG	SER L	7	6.082	-13.782	12.889	1.00	0.41	O
ATOM	1876	HG	SER L	7	6.216	-14.707	12.637	1.00	0.41	H
ATOM	1877	N	SER L	8	7.660	-13.754	9.257	1.00	0.45	N
ATOM	1878	H	SER L	8	7.393	-12.828	8.942	1.00	0.45	H
ATOM	1879	CA	SER L	8	7.814	-14.776	8.214	1.00	0.45	C
ATOM	1880	HA	SER L	8	8.771	-15.282	8.340	1.00	0.45	H
ATOM	1881	C	SER L	8	7.791	-14.083	6.852	1.00	0.45	C
ATOM	1882	CB	SER L	8	6.695	-15.826	8.312	1.00	0.45	C

ATOM	1883	HB2	SER	L	8	6.733	-16.482	7.440	1.00	0.45		H
ATOM	1884	HB3	SER	L	8	6.851	-16.431	9.206	1.00	0.45		H
ATOM	1885	O	SER	L	8	6.841	-13.372	6.533	1.00	0.45		O
ATOM	1886	OG	SER	L	8	5.420	-15.214	8.386	1.00	0.45		O
ATOM	1887	HG	SER	L	8	5.401	-14.653	9.163	1.00	0.45		H
ATOM	1888	N	SER	L	9	8.849	-14.242	6.056	1.00	0.44		N
ATOM	1889	H	SER	L	9	9.628	-14.808	6.360	1.00	0.44		H
ATOM	1890	CA	SER	L	9	8.933	-13.645	4.712	1.00	0.44		C
ATOM	1891	HA	SER	L	9	8.465	-12.658	4.717	1.00	0.44		H
ATOM	1892	C	SER	L	9	8.220	-14.495	3.660	1.00	0.44		C
ATOM	1893	CB	SER	L	9	10.402	-13.475	4.324	1.00	0.44		C
ATOM	1894	HB2	SER	L	9	10.461	-13.065	3.314	1.00	0.44		H
ATOM	1895	HB3	SER	L	9	10.878	-12.776	5.013	1.00	0.44		H
ATOM	1896	O	SER	L	9	7.665	-13.971	2.694	1.00	0.44		O
ATOM	1897	OG	SER	L	9	11.078	-14.721	4.375	1.00	0.44		O
ATOM	1898	HG	SER	L	9	11.984	-14.587	4.074	1.00	0.44		H
ATOM	1899	N	SER	L	10	8.195	-15.810	3.863	1.00	0.42		N
ATOM	1900	H	SER	L	10	8.653	-16.181	4.683	1.00	0.42		H
ATOM	1901	CA	SER	L	10	7.509	-16.774	3.011	1.00	0.42		C
ATOM	1902	HA	SER	L	10	6.618	-16.292	2.627	1.00	0.42		H
ATOM	1903	C	SER	L	10	7.076	-18.000	3.821	1.00	0.42		C
ATOM	1904	CB	SER	L	10	8.392	-17.168	1.819	1.00	0.42		C
ATOM	1905	HB2	SER	L	10	8.591	-16.287	1.207	1.00	0.42		H
ATOM	1906	HB3	SER	L	10	7.869	-17.904	1.206	1.00	0.42		H
ATOM	1907	O	SER	L	10	7.649	-18.293	4.872	1.00	0.42		O
ATOM	1908	OG	SER	L	10	9.618	-17.713	2.265	1.00	0.42		O
ATOM	1909	HG	SER	L	10	10.093	-17.030	2.746	1.00	0.42		H
ATOM	1910	N	PHE	L	11	6.057	-18.702	3.330	1.00	0.42		N
ATOM	1911	H	PHE	L	11	5.608	-18.351	2.488	1.00	0.42		H
ATOM	1912	CA	PHE	L	11	5.549	-19.963	3.868	1.00	0.42		C
ATOM	1913	HA	PHE	L	11	6.326	-20.454	4.452	1.00	0.42		H
ATOM	1914	C	PHE	L	11	5.155	-20.902	2.721	1.00	0.42		C
ATOM	1915	CB	PHE	L	11	4.308	-19.717	4.748	1.00	0.42		C
ATOM	1916	HB2	PHE	L	11	3.791	-20.671	4.865	1.00	0.42		H
ATOM	1917	HB3	PHE	L	11	3.633	-19.062	4.200	1.00	0.42		H
ATOM	1918	O	PHE	L	11	4.337	-20.527	1.885	1.00	0.42		O
ATOM	1919	CG	PHE	L	11	4.498	-19.168	6.151	1.00	0.42		C
ATOM	1920	CD1	PHE	L	11	5.527	-19.641	6.991	1.00	0.42		C
ATOM	1921	HD1	PHE	L	11	6.263	-20.336	6.617	1.00	0.42		H
ATOM	1922	CD2	PHE	L	11	3.541	-18.274	6.670	1.00	0.42		C
ATOM	1923	HD2	PHE	L	11	2.737	-17.917	6.043	1.00	0.42		H
ATOM	1924	CE1	PHE	L	11	5.596	-19.228	8.333	1.00	0.42		C
ATOM	1925	HE1	PHE	L	11	6.386	-19.596	8.971	1.00	0.42		H

ATOM	1926	CE2	PHE	L	11	3.608	-17.863	8.012	1.00	0.42	C
ATOM	1927	HE2	PHE	L	11	2.872	-17.179	8.405	1.00	0.42	H
ATOM	1928	CZ	PHE	L	11	4.629	-18.346	8.847	1.00	0.42	C
ATOM	1929	HZ	PHE	L	11	4.675	-18.030	9.879	1.00	0.42	H
ATOM	1930	N	SER	L	12	5.681	-22.130	2.710	1.00	0.61	N
ATOM	1931	H	SER	L	12	6.384	-22.363	3.392	1.00	0.61	H
ATOM	1932	CA	SER	L	12	5.237	-23.213	1.815	1.00	0.61	C
ATOM	1933	HA	SER	L	12	4.902	-22.790	0.871	1.00	0.61	H
ATOM	1934	C	SER	L	12	4.070	-23.986	2.432	1.00	0.61	C
ATOM	1935	CB	SER	L	12	6.386	-24.183	1.519	1.00	0.61	C
ATOM	1936	HB2	SER	L	12	6.682	-24.684	2.442	1.00	0.61	H
ATOM	1937	HB3	SER	L	12	6.056	-24.934	0.800	1.00	0.61	H
ATOM	1938	O	SER	L	12	4.196	-24.511	3.539	1.00	0.61	O
ATOM	1939	OG	SER	L	12	7.502	-23.491	0.993	1.00	0.61	O
ATOM	1940	HG	SER	L	12	7.304	-23.248	0.082	1.00	0.61	H
ATOM	1941	N	VAL	L	13	2.947	-24.072	1.720	1.00	0.44	N
ATOM	1942	H	VAL	L	13	2.917	-23.591	0.822	1.00	0.44	H
ATOM	1943	CA	VAL	L	13	1.650	-24.565	2.215	1.00	0.44	C
ATOM	1944	HA	VAL	L	13	1.812	-25.302	2.999	1.00	0.44	H
ATOM	1945	C	VAL	L	13	0.870	-25.260	1.094	1.00	0.44	C
ATOM	1946	CB	VAL	L	13	0.822	-23.411	2.823	1.00	0.44	C
ATOM	1947	HB	VAL	L	13	-0.222	-23.719	2.866	1.00	0.44	H
ATOM	1948	O	VAL	L	13	0.778	-24.749	-0.014	1.00	0.44	O
ATOM	1949	CG1	VAL	L	13	1.274	-23.129	4.262	1.00	0.44	C
ATOM	1950	HG11	VAL	L	13	1.153	-24.029	4.865	1.00	0.44	H
ATOM	1951	HG12	VAL	L	13	2.319	-22.823	4.278	1.00	0.44	H
ATOM	1952	HG13	VAL	L	13	0.678	-22.329	4.692	1.00	0.44	H
ATOM	1953	CG2	VAL	L	13	0.909	-22.088	2.043	1.00	0.44	C
ATOM	1954	HG21	VAL	L	13	1.917	-21.675	2.091	1.00	0.44	H
ATOM	1955	HG22	VAL	L	13	0.657	-22.261	0.998	1.00	0.44	H
ATOM	1956	HG23	VAL	L	13	0.220	-21.359	2.456	1.00	0.44	H
ATOM	1957	N	SER	L	14	0.296	-26.432	1.357	1.00	0.38	N
ATOM	1958	H	SER	L	14	0.184	-26.692	2.329	1.00	0.38	H
ATOM	1959	CA	SER	L	14	-0.461	-27.193	0.351	1.00	0.38	C
ATOM	1960	HA	SER	L	14	0.027	-27.054	-0.615	1.00	0.38	H
ATOM	1961	C	SER	L	14	-1.884	-26.658	0.196	1.00	0.38	C
ATOM	1962	CB	SER	L	14	-0.456	-28.713	0.607	1.00	0.38	C
ATOM	1963	HB2	SER	L	14	-1.235	-29.189	0.009	1.00	0.38	H
ATOM	1964	HB3	SER	L	14	0.496	-29.118	0.267	1.00	0.38	H
ATOM	1965	O	SER	L	14	-2.432	-26.006	1.087	1.00	0.38	O
ATOM	1966	OG	SER	L	14	-0.612	-29.090	1.963	1.00	0.38	O
ATOM	1967	HG	SER	L	14	-1.408	-28.676	2.373	1.00	0.38	H
ATOM	1968	N	LEU	L	15	-2.508	-26.957	-0.944	1.00	0.28	N

ATOM	1969	H	LEU L	15	-2.010	-27.499	-1.632	1.00	0.28		H
ATOM	1970	CA	LEU L	15	-3.920	-26.653	-1.176	1.00	0.28		C
ATOM	1971	HA	LEU L	15	-4.058	-25.577	-1.068	1.00	0.28		H
ATOM	1972	C	LEU L	15	-4.800	-27.334	-0.118	1.00	0.28		C
ATOM	1973	CB	LEU L	15	-4.331	-27.069	-2.599	1.00	0.28		C
ATOM	1974	HB2	LEU L	15	-5.394	-26.862	-2.726	1.00	0.28		H
ATOM	1975	HB3	LEU L	15	-4.188	-28.147	-2.698	1.00	0.28		H
ATOM	1976	O	LEU L	15	-4.641	-28.520	0.166	1.00	0.28		O
ATOM	1977	CG	LEU L	15	-3.551	-26.359	-3.719	1.00	0.28		C
ATOM	1978	HG	LEU L	15	-2.483	-26.533	-3.594	1.00	0.28		H
ATOM	1979	CD1	LEU L	15	-3.968	-26.927	-5.076	1.00	0.28		C
ATOM	1980	HD11	LEU L	15	-5.029	-26.750	-5.252	1.00	0.28		H
ATOM	1981	HD12	LEU L	15	-3.775	-28.000	-5.097	1.00	0.28		H
ATOM	1982	HD13	LEU L	15	-3.383	-26.458	-5.866	1.00	0.28		H
ATOM	1983	CD2	LEU L	15	-3.816	-24.854	-3.722	1.00	0.28		C
ATOM	1984	HD21	LEU L	15	-3.436	-24.402	-2.806	1.00	0.28		H
ATOM	1985	HD22	LEU L	15	-3.300	-24.395	-4.561	1.00	0.28		H
ATOM	1986	HD23	LEU L	15	-4.886	-24.669	-3.795	1.00	0.28		H
ATOM	1987	N	GLY L	16	-5.725	-26.572	0.465	1.00	0.21		N
ATOM	1988	H	GLY L	16	-5.817	-25.617	0.135	1.00	0.21		H
ATOM	1989	CA	GLY L	16	-6.547	-26.994	1.601	1.00	0.21		C
ATOM	1990	HA2	GLY L	16	-7.518	-26.507	1.529	1.00	0.21		H
ATOM	1991	HA3	GLY L	16	-6.709	-28.070	1.543	1.00	0.21		H
ATOM	1992	C	GLY L	16	-5.947	-26.688	2.982	1.00	0.21		C
ATOM	1993	O	GLY L	16	-6.679	-26.754	3.970	1.00	0.21		O
ATOM	1994	N	ASP L	17	-4.669	-26.292	3.083	1.00	0.31		N
ATOM	1995	H	ASP L	17	-4.083	-26.280	2.254	1.00	0.31		H
ATOM	1996	CA	ASP L	17	-4.054	-25.913	4.364	1.00	0.31		C
ATOM	1997	HA	ASP L	17	-4.136	-26.774	5.028	1.00	0.31		H
ATOM	1998	C	ASP L	17	-4.780	-24.733	5.038	1.00	0.31		C
ATOM	1999	CB	ASP L	17	-2.551	-25.564	4.248	1.00	0.31		C
ATOM	2000	HB2	ASP L	17	-2.242	-25.081	5.177	1.00	0.31		H
ATOM	2001	HB3	ASP L	17	-2.418	-24.826	3.456	1.00	0.31		H
ATOM	2002	O	ASP L	17	-5.385	-23.864	4.403	1.00	0.31		O
ATOM	2003	CG	ASP L	17	-1.583	-26.732	4.024	1.00	0.31		C
ATOM	2004	OD1	ASP L	17	-2.020	-27.884	3.829	1.00	0.31		O
ATOM	2005	OD2	ASP L	17	-0.347	-26.510	4.097	1.00	0.31		O
ATOM	2006	N	ARG L	18	-4.673	-24.681	6.371	1.00	0.30		N
ATOM	2007	H	ARG L	18	-4.150	-25.423	6.814	1.00	0.30		H
ATOM	2008	CA	ARG L	18	-5.238	-23.626	7.221	1.00	0.30		C
ATOM	2009	HA	ARG L	18	-5.944	-23.049	6.624	1.00	0.30		H
ATOM	2010	C	ARG L	18	-4.154	-22.648	7.685	1.00	0.30		C
ATOM	2011	CB	ARG L	18	-6.024	-24.290	8.360	1.00	0.30		C

ATOM	2012	HB2	ARG	L	18	-5.338	-24.867	8.985	1.00	0.30	H
ATOM	2013	HB3	ARG	L	18	-6.735	-24.996	7.926	1.00	0.30	H
ATOM	2014	O	ARG	L	18	-3.742	-22.670	8.846	1.00	0.30	O
ATOM	2015	CG	ARG	L	18	-6.818	-23.280	9.205	1.00	0.30	C
ATOM	2016	HG2	ARG	L	18	-6.644	-22.270	8.831	1.00	0.30	H
ATOM	2017	HG3	ARG	L	18	-7.884	-23.489	9.109	1.00	0.30	H
ATOM	2018	CD	ARG	L	18	-6.429	-23.363	10.689	1.00	0.30	C
ATOM	2019	HD2	ARG	L	18	-6.948	-24.208	11.147	1.00	0.30	H
ATOM	2020	HD3	ARG	L	18	-5.356	-23.545	10.779	1.00	0.30	H
ATOM	2021	NE	ARG	L	18	-6.763	-22.117	11.403	1.00	0.30	N
ATOM	2022	HE	ARG	L	18	-7.598	-22.110	11.962	1.00	0.30	H
ATOM	2023	NH1	ARG	L	18	-4.950	-20.916	10.671	1.00	0.30	N
ATOM	2024	HH11	ARG	L	18	-4.396	-20.069	10.698	1.00	0.30	H
ATOM	2025	HH12	ARG	L	18	-4.593	-21.701	10.137	1.00	0.30	H
ATOM	2026	NH2	ARG	L	18	-6.439	-19.936	11.987	1.00	0.30	N
ATOM	2027	HH21	ARG	L	18	-5.928	-19.073	11.834	1.00	0.30	H
ATOM	2028	HH22	ARG	L	18	-7.281	-19.928	12.527	1.00	0.30	H
ATOM	2029	CZ	ARG	L	18	-6.050	-21.004	11.355	1.00	0.30	C
ATOM	2030	N	VAL	L	19	-3.690	-21.808	6.771	1.00	0.29	N
ATOM	2031	H	VAL	L	19	-4.162	-21.816	5.875	1.00	0.29	H
ATOM	2032	CA	VAL	L	19	-2.556	-20.889	6.948	1.00	0.29	C
ATOM	2033	HA	VAL	L	19	-1.720	-21.476	7.329	1.00	0.29	H
ATOM	2034	C	VAL	L	19	-2.856	-19.775	7.958	1.00	0.29	C
ATOM	2035	CB	VAL	L	19	-2.136	-20.292	5.589	1.00	0.29	C
ATOM	2036	HB	VAL	L	19	-2.849	-19.519	5.298	1.00	0.29	H
ATOM	2037	O	VAL	L	19	-3.991	-19.311	8.069	1.00	0.29	O
ATOM	2038	CG1	VAL	L	19	-0.744	-19.659	5.674	1.00	0.29	C
ATOM	2039	HG11	VAL	L	19	-0.022	-20.369	6.079	1.00	0.29	H
ATOM	2040	HG12	VAL	L	19	-0.424	-19.376	4.677	1.00	0.29	H
ATOM	2041	HG13	VAL	L	19	-0.762	-18.758	6.285	1.00	0.29	H
ATOM	2042	CG2	VAL	L	19	-2.119	-21.357	4.485	1.00	0.29	C
ATOM	2043	HG21	VAL	L	19	-3.135	-21.661	4.233	1.00	0.29	H
ATOM	2044	HG22	VAL	L	19	-1.560	-22.234	4.807	1.00	0.29	H
ATOM	2045	HG23	VAL	L	19	-1.667	-20.951	3.585	1.00	0.29	H
ATOM	2046	N	THR	L	20	-1.830	-19.305	8.669	1.00	0.25	N
ATOM	2047	H	THR	L	20	-0.919	-19.724	8.539	1.00	0.25	H
ATOM	2048	CA	THR	L	20	-1.876	-18.071	9.465	1.00	0.25	C
ATOM	2049	HA	THR	L	20	-2.726	-17.480	9.134	1.00	0.25	H
ATOM	2050	C	THR	L	20	-0.628	-17.239	9.210	1.00	0.25	C
ATOM	2051	CB	THR	L	20	-2.065	-18.351	10.964	1.00	0.25	C
ATOM	2052	HB	THR	L	20	-1.427	-19.179	11.274	1.00	0.25	H
ATOM	2053	O	THR	L	20	0.484	-17.750	9.275	1.00	0.25	O
ATOM	2054	CG2	THR	L	20	-1.799	-17.145	11.857	1.00	0.25	C

ATOM	2055	HG21	THR	L	20	-2.352	-16.290	11.472	1.00	0.25		H
ATOM	2056	HG22	THR	L	20	-0.734	-16.919	11.869	1.00	0.25		H
ATOM	2057	HG23	THR	L	20	-2.115	-17.358	12.879	1.00	0.25		H
ATOM	2058	OG1	THR	L	20	-3.414	-18.669	11.209	1.00	0.25		O
ATOM	2059	HG1	THR	L	20	-3.920	-17.846	11.129	1.00	0.25		H
ATOM	2060	N	ILE	L	21	-0.830	-15.952	8.945	1.00	0.24		N
ATOM	2061	H	ILE	L	21	-1.789	-15.620	8.916	1.00	0.24		H
ATOM	2062	CA	ILE	L	21	0.208	-14.945	8.755	1.00	0.24		C
ATOM	2063	HA	ILE	L	21	1.191	-15.419	8.769	1.00	0.24		H
ATOM	2064	C	ILE	L	21	0.124	-13.967	9.924	1.00	0.24		C
ATOM	2065	CB	ILE	L	21	0.032	-14.248	7.390	1.00	0.24		C
ATOM	2066	HB	ILE	L	21	-0.960	-13.797	7.355	1.00	0.24		H
ATOM	2067	O	ILE	L	21	-0.910	-13.332	10.139	1.00	0.24		O
ATOM	2068	CG1	ILE	L	21	0.134	-15.284	6.244	1.00	0.24		C
ATOM	2069	HG12	ILE	L	21	-0.628	-16.051	6.383	1.00	0.24		H
ATOM	2070	HG13	ILE	L	21	1.110	-15.769	6.270	1.00	0.24		H
ATOM	2071	CG2	ILE	L	21	1.070	-13.123	7.241	1.00	0.24		C
ATOM	2072	HG21	ILE	L	21	0.942	-12.372	8.017	1.00	0.24		H
ATOM	2073	HG22	ILE	L	21	2.073	-13.538	7.322	1.00	0.24		H
ATOM	2074	HG23	ILE	L	21	0.955	-12.619	6.282	1.00	0.24		H
ATOM	2075	CD1	ILE	L	21	-0.090	-14.688	4.854	1.00	0.24		C
ATOM	2076	HD11	ILE	L	21	-0.953	-14.022	4.867	1.00	0.24		H
ATOM	2077	HD12	ILE	L	21	0.800	-14.149	4.535	1.00	0.24		H
ATOM	2078	HD13	ILE	L	21	-0.281	-15.485	4.140	1.00	0.24		H
ATOM	2079	N	THR	L	22	1.200	-13.861	10.696	1.00	0.27		N
ATOM	2080	H	THR	L	22	2.015	-14.419	10.481	1.00	0.27		H
ATOM	2081	CA	THR	L	22	1.286	-13.011	11.889	1.00	0.27		C
ATOM	2082	HA	THR	L	22	0.280	-12.808	12.252	1.00	0.27		H
ATOM	2083	C	THR	L	22	1.948	-11.672	11.588	1.00	0.27		C
ATOM	2084	CB	THR	L	22	2.042	-13.731	13.016	1.00	0.27		C
ATOM	2085	HB	THR	L	22	2.271	-13.022	13.813	1.00	0.27		H
ATOM	2086	O	THR	L	22	2.943	-11.595	10.868	1.00	0.27		O
ATOM	2087	CG2	THR	L	22	1.207	-14.867	13.602	1.00	0.27		C
ATOM	2088	HG21	THR	L	22	0.258	-14.479	13.969	1.00	0.27		H
ATOM	2089	HG22	THR	L	22	1.023	-15.627	12.843	1.00	0.27		H
ATOM	2090	HG23	THR	L	22	1.749	-15.321	14.433	1.00	0.27		H
ATOM	2091	OG1	THR	L	22	3.239	-14.312	12.541	1.00	0.27		O
ATOM	2092	HG1	THR	L	22	3.971	-13.694	12.667	1.00	0.27		H
ATOM	2093	N	CYS	L	23	1.423	-10.617	12.203	1.00	0.21		N
ATOM	2094	H	CYS	L	23	0.606	-10.759	12.792	1.00	0.21		H
ATOM	2095	CA	CYS	L	23	1.960	-9.265	12.160	1.00	0.21		C
ATOM	2096	HA	CYS	L	23	2.991	-9.291	11.806	1.00	0.21		H
ATOM	2097	C	CYS	L	23	1.951	-8.658	13.564	1.00	0.21		C

ATOM	2098	CB	CYS	L	23	1.141	-8.433	11.174	1.00	0.21	C
ATOM	2099	HB2	CYS	L	23	0.084	-8.500	11.439	1.00	0.21	H
ATOM	2100	HB3	CYS	L	23	1.272	-8.857	10.180	1.00	0.21	H
ATOM	2101	O	CYS	L	23	0.962	-8.778	14.291	1.00	0.21	O
ATOM	2102	SG	CYS	L	23	1.597	-6.688	11.103	1.00	0.21	S
ATOM	2103	N	LYS	L	24	3.053	-8.006	13.942	1.00	0.21	N
ATOM	2104	H	LYS	L	24	3.842	-7.992	13.302	1.00	0.21	H
ATOM	2105	CA	LYS	L	24	3.266	-7.469	15.287	1.00	0.21	C
ATOM	2106	HA	LYS	L	24	2.328	-7.528	15.832	1.00	0.21	H
ATOM	2107	C	LYS	L	24	3.697	-6.007	15.248	1.00	0.21	C
ATOM	2108	CB	LYS	L	24	4.275	-8.363	16.019	1.00	0.21	C
ATOM	2109	HB2	LYS	L	24	5.257	-8.261	15.554	1.00	0.21	H
ATOM	2110	HB3	LYS	L	24	3.954	-9.402	15.917	1.00	0.21	H
ATOM	2111	O	LYS	L	24	4.750	-5.689	14.703	1.00	0.21	O
ATOM	2112	CG	LYS	L	24	4.372	-8.034	17.516	1.00	0.21	C
ATOM	2113	HG2	LYS	L	24	3.386	-8.130	17.969	1.00	0.21	H
ATOM	2114	HG3	LYS	L	24	4.727	-7.011	17.650	1.00	0.21	H
ATOM	2115	CD	LYS	L	24	5.353	-9.004	18.192	1.00	0.21	C
ATOM	2116	HD2	LYS	L	24	6.335	-8.879	17.732	1.00	0.21	H
ATOM	2117	HD3	LYS	L	24	5.025	-10.032	18.021	1.00	0.21	H
ATOM	2118	CE	LYS	L	24	5.493	-8.763	19.700	1.00	0.21	C
ATOM	2119	HE2	LYS	L	24	5.691	-7.702	19.877	1.00	0.21	H
ATOM	2120	HE3	LYS	L	24	6.351	-9.341	20.053	1.00	0.21	H
ATOM	2121	NZ	LYS	L	24	4.283	-9.193	20.436	1.00	0.21	N
ATOM	2122	HZ1	LYS	L	24	3.462	-8.612	20.236	1.00	0.21	H
ATOM	2123	HZ2	LYS	L	24	4.390	-9.248	21.433	1.00	0.21	H
ATOM	2124	HZ3	LYS	L	24	3.907	-10.080	20.085	1.00	0.21	H
ATOM	2125	N	ALA	L	25	2.898	-5.135	15.850	1.00	0.22	N
ATOM	2126	H	ALA	L	25	2.083	-5.498	16.328	1.00	0.22	H
ATOM	2127	CA	ALA	L	25	3.219	-3.727	16.037	1.00	0.22	C
ATOM	2128	HA	ALA	L	25	3.679	-3.348	15.126	1.00	0.22	H
ATOM	2129	C	ALA	L	25	4.198	-3.527	17.211	1.00	0.22	C
ATOM	2130	CB	ALA	L	25	1.914	-2.961	16.260	1.00	0.22	C
ATOM	2131	HB1	ALA	L	25	1.496	-3.208	17.235	1.00	0.22	H
ATOM	2132	HB2	ALA	L	25	2.122	-1.894	16.220	1.00	0.22	H
ATOM	2133	HB3	ALA	L	25	1.189	-3.207	15.488	1.00	0.22	H
ATOM	2134	O	ALA	L	25	4.081	-4.189	18.246	1.00	0.22	O
ATOM	2135	N	THR	L	26	5.161	-2.612	17.089	1.00	0.25	N
ATOM	2136	H	THR	L	26	5.307	-2.163	16.190	1.00	0.25	H
ATOM	2137	CA	THR	L	26	6.069	-2.273	18.205	1.00	0.25	C
ATOM	2138	HA	THR	L	26	6.380	-3.198	18.689	1.00	0.25	H
ATOM	2139	C	THR	L	26	5.396	-1.435	19.289	1.00	0.25	C
ATOM	2140	CB	THR	L	26	7.334	-1.557	17.722	1.00	0.25	C

ATOM	2141	HB	THR L	26	7.839	-1.110	18.579	1.00	0.25	H
ATOM	2142	O	THR L	26	5.571	-1.704	20.482	1.00	0.25	O
ATOM	2143	CG2	THR L	26	8.287	-2.567	17.088	1.00	0.25	C
ATOM	2144	HG21	THR L	26	9.187	-2.058	16.744	1.00	0.25	H
ATOM	2145	HG22	THR L	26	8.577	-3.311	17.829	1.00	0.25	H
ATOM	2146	HG23	THR L	26	7.799	-3.071	16.254	1.00	0.25	H
ATOM	2147	OG1	THR L	26	7.029	-0.539	16.801	1.00	0.25	O
ATOM	2148	HG1	THR L	26	7.882	-0.124	16.550	1.00	0.25	H
ATOM	2149	N	GLU L	27	4.580	-0.464	18.898	1.00	0.35	N
ATOM	2150	H	GLU L	27	4.487	-0.315	17.903	1.00	0.35	H
ATOM	2151	CA	GLU L	27	3.678	0.299	19.765	1.00	0.35	C
ATOM	2152	HA	GLU L	27	3.884	0.029	20.797	1.00	0.35	H
ATOM	2153	C	GLU L	27	2.219	-0.129	19.527	1.00	0.35	C
ATOM	2154	CB	GLU L	27	3.977	1.815	19.693	1.00	0.35	C
ATOM	2155	HB2	GLU L	27	3.187	2.348	20.224	1.00	0.35	H
ATOM	2156	HB3	GLU L	27	4.904	1.974	20.246	1.00	0.35	H
ATOM	2157	O	GLU L	27	1.925	-0.806	18.547	1.00	0.35	O
ATOM	2158	CG	GLU L	27	4.165	2.449	18.295	1.00	0.35	C
ATOM	2159	HG2	GLU L	27	4.866	1.840	17.721	1.00	0.35	H
ATOM	2160	HG3	GLU L	27	3.199	2.426	17.793	1.00	0.35	H
ATOM	2161	CD	GLU L	27	4.702	3.903	18.319	1.00	0.35	C
ATOM	2162	OE1	GLU L	27	5.295	4.356	17.302	1.00	0.35	O
ATOM	2163	OE2	GLU L	27	4.507	4.577	19.353	1.00	0.35	O
ATOM	2164	N	ASP L	28	1.325	0.131	20.486	1.00	0.38	N
ATOM	2165	H	ASP L	28	1.535	0.821	21.188	1.00	0.38	H
ATOM	2166	CA	ASP L	28	-0.051	-0.372	20.407	1.00	0.38	C
ATOM	2167	HA	ASP L	28	-0.009	-1.417	20.094	1.00	0.38	H
ATOM	2168	C	ASP L	28	-0.864	0.387	19.354	1.00	0.38	C
ATOM	2169	CB	ASP L	28	-0.725	-0.337	21.782	1.00	0.38	C
ATOM	2170	HB2	ASP L	28	0.014	-0.568	22.553	1.00	0.38	H
ATOM	2171	HB3	ASP L	28	-1.133	0.654	21.983	1.00	0.38	H
ATOM	2172	O	ASP L	28	-0.808	1.618	19.302	1.00	0.38	O
ATOM	2173	CG	ASP L	28	-1.825	-1.391	21.815	1.00	0.38	C
ATOM	2174	OD1	ASP L	28	-2.808	-1.242	21.053	1.00	0.38	O
ATOM	2175	OD2	ASP L	28	-1.597	-2.402	22.516	1.00	0.38	O
ATOM	2176	N	ILE L	29	-1.599	-0.351	18.518	1.00	0.31	N
ATOM	2177	H	ILE L	29	-1.649	-1.347	18.695	1.00	0.31	H
ATOM	2178	CA	ILE L	29	-2.353	0.202	17.384	1.00	0.31	C
ATOM	2179	HA	ILE L	29	-2.196	1.279	17.371	1.00	0.31	H
ATOM	2180	C	ILE L	29	-3.863	0.044	17.514	1.00	0.31	C
ATOM	2181	CB	ILE L	29	-1.835	-0.332	16.032	1.00	0.31	C
ATOM	2182	HB	ILE L	29	-2.372	0.193	15.240	1.00	0.31	H
ATOM	2183	O	ILE L	29	-4.577	0.417	16.585	1.00	0.31	O

ATOM	2184	CG1	ILE	L	29	-2.088	-1.838	15.852	1.00	0.31	C
ATOM	2185	HG12	ILE	L	29	-1.499	-2.392	16.582	1.00	0.31	H
ATOM	2186	HG13	ILE	L	29	-3.143	-2.052	16.018	1.00	0.31	H
ATOM	2187	CG2	ILE	L	29	-0.359	0.027	15.887	1.00	0.31	C
ATOM	2188	HG21	ILE	L	29	-0.246	1.065	16.175	1.00	0.31	H
ATOM	2189	HG22	ILE	L	29	-0.027	-0.101	14.859	1.00	0.31	H
ATOM	2190	HG23	ILE	L	29	0.248	-0.585	16.551	1.00	0.31	H
ATOM	2191	CD1	ILE	L	29	-1.732	-2.328	14.449	1.00	0.31	C
ATOM	2192	HD11	ILE	L	29	-2.319	-1.788	13.705	1.00	0.31	H
ATOM	2193	HD12	ILE	L	29	-0.674	-2.178	14.251	1.00	0.31	H
ATOM	2194	HD13	ILE	L	29	-1.950	-3.392	14.383	1.00	0.31	H
ATOM	2195	N	TYR	L	36	-4.375	-0.490	18.629	1.00	0.27	N
ATOM	2196	H	TYR	L	36	-3.733	-0.732	19.389	1.00	0.27	H
ATOM	2197	CA	TYR	L	36	-5.809	-0.465	18.951	1.00	0.27	C
ATOM	2198	HA	TYR	L	36	-5.959	-1.169	19.771	1.00	0.27	H
ATOM	2199	C	TYR	L	36	-6.706	-0.946	17.789	1.00	0.27	C
ATOM	2200	CB	TYR	L	36	-6.186	0.934	19.474	1.00	0.27	C
ATOM	2201	HB2	TYR	L	36	-7.234	0.923	19.776	1.00	0.27	H
ATOM	2202	HB3	TYR	L	36	-6.083	1.658	18.664	1.00	0.27	H
ATOM	2203	O	TYR	L	36	-7.660	-0.267	17.392	1.00	0.27	O
ATOM	2204	CG	TYR	L	36	-5.352	1.406	20.651	1.00	0.27	C
ATOM	2205	CD1	TYR	L	36	-5.772	1.141	21.970	1.00	0.27	C
ATOM	2206	HD1	TYR	L	36	-6.692	0.607	22.151	1.00	0.27	H
ATOM	2207	CD2	TYR	L	36	-4.134	2.076	20.424	1.00	0.27	C
ATOM	2208	HD2	TYR	L	36	-3.796	2.262	19.415	1.00	0.27	H
ATOM	2209	CE1	TYR	L	36	-4.969	1.540	23.058	1.00	0.27	C
ATOM	2210	HE1	TYR	L	36	-5.267	1.323	24.072	1.00	0.27	H
ATOM	2211	CE2	TYR	L	36	-3.325	2.464	21.506	1.00	0.27	C
ATOM	2212	HE2	TYR	L	36	-2.377	2.941	21.317	1.00	0.27	H
ATOM	2213	OH	TYR	L	36	-2.954	2.553	23.873	1.00	0.27	O
ATOM	2214	HH	TYR	L	36	-2.076	2.792	23.576	1.00	0.27	H
ATOM	2215	CZ	TYR	L	36	-3.740	2.192	22.826	1.00	0.27	C
ATOM	2216	N	ASN	L	37	-6.348	-2.082	17.180	1.00	0.21	N
ATOM	2217	H	ASN	L	37	-5.562	-2.588	17.573	1.00	0.21	H
ATOM	2218	CA	ASN	L	37	-7.022	-2.710	16.037	1.00	0.21	C
ATOM	2219	HA	ASN	L	37	-6.383	-3.543	15.742	1.00	0.21	H
ATOM	2220	C	ASN	L	37	-7.104	-1.850	14.757	1.00	0.21	C
ATOM	2221	CB	ASN	L	37	-8.362	-3.334	16.487	1.00	0.21	C
ATOM	2222	HB2	ASN	L	37	-8.973	-2.595	17.003	1.00	0.21	H
ATOM	2223	HB3	ASN	L	37	-8.917	-3.667	15.610	1.00	0.21	H
ATOM	2224	O	ASN	L	37	-7.798	-2.219	13.808	1.00	0.21	O
ATOM	2225	CG	ASN	L	37	-8.152	-4.527	17.410	1.00	0.21	C
ATOM	2226	ND2	ASN	L	37	-8.589	-5.697	17.007	1.00	0.21	N

ATOM	2227	HD21 ASN L	37	-8.321	-6.515	17.547	1.00	0.21	H
ATOM	2228	HD22 ASN L	37	-9.105	-5.785	16.153	1.00	0.21	H
ATOM	2229	OD1 ASN L	37	-7.550	-4.436	18.468	1.00	0.21	O
ATOM	2230	N ARG L	38	-6.358	-0.740	14.664	1.00	0.27	N
ATOM	2231	H ARG L	38	-5.800	-0.471	15.472	1.00	0.27	H
ATOM	2232	CA ARG L	38	-6.185	0.043	13.428	1.00	0.27	C
ATOM	2233	HA ARG L	38	-7.131	0.070	12.888	1.00	0.27	H
ATOM	2234	C ARG L	38	-5.184	-0.638	12.491	1.00	0.27	C
ATOM	2235	CB ARG L	38	-5.771	1.491	13.738	1.00	0.27	C
ATOM	2236	HB2 ARG L	38	-4.752	1.481	14.112	1.00	0.27	H
ATOM	2237	HB3 ARG L	38	-5.765	2.045	12.800	1.00	0.27	H
ATOM	2238	O ARG L	38	-4.122	-0.096	12.192	1.00	0.27	O
ATOM	2239	CG ARG L	38	-6.634	2.271	14.741	1.00	0.27	C
ATOM	2240	HG2 ARG L	38	-6.361	1.986	15.755	1.00	0.27	H
ATOM	2241	HG3 ARG L	38	-6.394	3.326	14.614	1.00	0.27	H
ATOM	2242	CD ARG L	38	-8.147	2.089	14.573	1.00	0.27	C
ATOM	2243	HD2 ARG L	38	-8.392	2.159	13.513	1.00	0.27	H
ATOM	2244	HD3 ARG L	38	-8.439	1.098	14.927	1.00	0.27	H
ATOM	2245	NE ARG L	38	-8.889	3.136	15.303	1.00	0.27	N
ATOM	2246	HE ARG L	38	-9.244	3.891	14.744	1.00	0.27	H
ATOM	2247	NH1 ARG L	38	-8.668	2.320	17.455	1.00	0.27	N
ATOM	2248	HH11 ARG L	38	-8.254	1.451	17.121	1.00	0.27	H
ATOM	2249	HH12 ARG L	38	-8.756	2.444	18.443	1.00	0.27	H
ATOM	2250	NH2 ARG L	38	-9.623	4.291	17.117	1.00	0.27	N
ATOM	2251	HH21 ARG L	38	-9.739	4.360	18.110	1.00	0.27	H
ATOM	2252	HH22 ARG L	38	-9.931	5.032	16.516	1.00	0.27	H
ATOM	2253	CZ ARG L	38	-9.051	3.234	16.612	1.00	0.27	C
ATOM	2254	N LEUL 39	-5.519	-1.854	12.069	1.00	0.17	N	
ATOM	2255	H LEUL 39	-6.412	-2.218	12.375	1.00	0.17	H	
ATOM	2256	CA LEUL 39	-4.705	-2.687	11.192	1.00	0.17	C	
ATOM	2257	HA LEUL 39	-3.835	-2.112	10.877	1.00	0.17	H	
ATOM	2258	C LEUL 39	-5.484	-3.081	9.937	1.00	0.17	C	
ATOM	2259	CB LEUL 39	-4.195	-3.907	11.974	1.00	0.17	C	
ATOM	2260	HB2 LEUL 39	-5.047	-4.522	12.266	1.00	0.17	H	
ATOM	2261	HB3 LEUL 39	-3.732	-3.555	12.893	1.00	0.17	H	
ATOM	2262	O LEUL 39	-6.669	-3.407	10.009	1.00	0.17	O	
ATOM	2263	CG LEUL 39	-3.181	-4.757	11.175	1.00	0.17	C	
ATOM	2264	HG LEUL 39	-2.914	-4.262	10.244	1.00	0.17	H	
ATOM	2265	CD1 LEUL 39	-1.891	-4.966	11.959	1.00	0.17	C	
ATOM	2266	HD11 LEUL 39	-1.417	-3.998	12.113	1.00	0.17	H	
ATOM	2267	HD12 LEUL 39	-2.107	-5.425	12.922	1.00	0.17	H	
ATOM	2268	HD13 LEUL 39	-1.211	-5.606	11.400	1.00	0.17	H	
ATOM	2269	CD2 LEUL 39	-3.762	-6.128	10.846	1.00	0.17	C	

ATOM	2270	HD21	LEU	L	39	-3.998	-6.666	11.763	1.00	0.17	H
ATOM	2271	HD22	LEU	L	39	-3.034	-6.694	10.265	1.00	0.17	H
ATOM	2272	HD23	LEU	L	39	-4.664	-6.010	10.246	1.00	0.17	H
ATOM	2273	N	ALA	L	40	-4.809	-3.066	8.799	1.00	0.17	N
ATOM	2274	H	ALA	L	40	-3.839	-2.767	8.826	1.00	0.17	H
ATOM	2275	CA	ALA	L	40	-5.289	-3.593	7.534	1.00	0.17	C
ATOM	2276	HA	ALA	L	40	-6.301	-3.970	7.664	1.00	0.17	H
ATOM	2277	C	ALA	L	40	-4.412	-4.763	7.065	1.00	0.17	C
ATOM	2278	CB	ALA	L	40	-5.328	-2.445	6.523	1.00	0.17	C
ATOM	2279	HB1	ALA	L	40	-5.583	-2.832	5.540	1.00	0.17	H
ATOM	2280	HB2	ALA	L	40	-6.076	-1.716	6.828	1.00	0.17	H
ATOM	2281	HB3	ALA	L	40	-4.352	-1.961	6.462	1.00	0.17	H
ATOM	2282	O	ALA	L	40	-3.238	-4.848	7.433	1.00	0.17	O
ATOM	2283	N	TRP	L	41	-4.981	-5.635	6.233	1.00	0.10	N
ATOM	2284	H	TRP	L	41	-5.955	-5.474	5.990	1.00	0.10	H
ATOM	2285	CA	TRP	L	41	-4.280	-6.689	5.501	1.00	0.10	C
ATOM	2286	HA	TRP	L	41	-3.208	-6.600	5.673	1.00	0.10	H
ATOM	2287	C	TRP	L	41	-4.541	-6.550	4.003	1.00	0.10	C
ATOM	2288	CB	TRP	L	41	-4.719	-8.079	5.968	1.00	0.10	C
ATOM	2289	HB2	TRP	L	41	-5.802	-8.150	5.906	1.00	0.10	H
ATOM	2290	HB3	TRP	L	41	-4.319	-8.808	5.264	1.00	0.10	H
ATOM	2291	O	TRP	L	41	-5.693	-6.483	3.572	1.00	0.10	O
ATOM	2292	CG	TRP	L	41	-4.267	-8.501	7.330	1.00	0.10	C
ATOM	2293	CD1	TRP	L	41	-5.025	-8.528	8.450	1.00	0.10	C
ATOM	2294	HD1	TRP	L	41	-6.062	-8.218	8.500	1.00	0.10	H
ATOM	2295	CD2	TRP	L	41	-2.958	-9.018	7.718	1.00	0.10	C
ATOM	2296	CE2	TRP	L	41	-3.001	-9.362	9.103	1.00	0.10	C
ATOM	2297	CE3	TRP	L	41	-1.759	-9.285	7.021	1.00	0.10	C
ATOM	2298	HE3	TRP	L	41	-1.696	-9.043	5.970	1.00	0.10	H
ATOM	2299	NE1	TRP	L	41	-4.283	-9.040	9.498	1.00	0.10	N
ATOM	2300	HE1	TRP	L	41	-4.656	-9.174	10.427	1.00	0.10	H
ATOM	2301	CH2	TRP	L	41	-0.743	-10.227	9.032	1.00	0.10	C
ATOM	2302	HH2	TRP	L	41	0.091	-10.715	9.514	1.00	0.10	H
ATOM	2303	CZ2	TRP	L	41	-1.909	-9.943	9.764	1.00	0.10	C
ATOM	2304	HZ2	TRP	L	41	-1.974	-10.201	10.809	1.00	0.10	H
ATOM	2305	CZ3	TRP	L	41	-0.665	-9.890	7.669	1.00	0.10	C
ATOM	2306	HZ3	TRP	L	41	0.238	-10.104	7.112	1.00	0.10	H
ATOM	2307	N	TYR	L	42	-3.469	-6.579	3.219	1.00	0.19	N
ATOM	2308	H	TYR	L	42	-2.561	-6.635	3.667	1.00	0.19	H
ATOM	2309	CA	TYR	L	42	-3.479	-6.574	1.761	1.00	0.19	C
ATOM	2310	HA	TYR	L	42	-4.499	-6.412	1.425	1.00	0.19	H
ATOM	2311	C	TYR	L	42	-2.989	-7.912	1.205	1.00	0.19	C
ATOM	2312	CB	TYR	L	42	-2.607	-5.433	1.219	1.00	0.19	C

ATOM	2313	HB2	TYR	L	42	-1.569	-5.620	1.493	1.00	0.19	H
ATOM	2314	HB3	TYR	L	42	-2.663	-5.444	0.131	1.00	0.19	H
ATOM	2315	O	TYR	L	42	-2.169	-8.582	1.828	1.00	0.19	O
ATOM	2316	CG	TYR	L	42	-2.996	-4.055	1.708	1.00	0.19	C
ATOM	2317	CD1	TYR	L	42	-2.484	-3.569	2.925	1.00	0.19	C
ATOM	2318	HD1	TYR	L	42	-1.793	-4.168	3.503	1.00	0.19	H
ATOM	2319	CD2	TYR	L	42	-3.887	-3.268	0.955	1.00	0.19	C
ATOM	2320	HD2	TYR	L	42	-4.263	-3.622	0.007	1.00	0.19	H
ATOM	2321	CE1	TYR	L	42	-2.886	-2.308	3.399	1.00	0.19	C
ATOM	2322	HE1	TYR	L	42	-2.508	-1.934	4.328	1.00	0.19	H
ATOM	2323	CE2	TYR	L	42	-4.298	-2.015	1.442	1.00	0.19	C
ATOM	2324	HE2	TYR	L	42	-5.004	-1.423	0.890	1.00	0.19	H
ATOM	2325	OH	TYR	L	42	-4.195	-0.320	3.138	1.00	0.19	O
ATOM	2326	HH	TYR	L	42	-3.593	0.005	3.839	1.00	0.19	H
ATOM	2327	CZ	TYR	L	42	-3.800	-1.529	2.666	1.00	0.19	C
ATOM	2328	N	GLN	L	43	-3.447	-8.258	0.006	1.00	0.18	N
ATOM	2329	H	GLN	L	43	-4.138	-7.642	-0.413	1.00	0.18	H
ATOM	2330	CA	GLN	L	43	-2.986	-9.366	-0.826	1.00	0.18	C
ATOM	2331	HA	GLN	L	43	-2.205	-9.930	-0.313	1.00	0.18	H
ATOM	2332	C	GLN	L	43	-2.422	-8.795	-2.127	1.00	0.18	C
ATOM	2333	CB	GLN	L	43	-4.182	-10.292	-1.092	1.00	0.18	C
ATOM	2334	HB2	GLN	L	43	-4.499	-10.699	-0.137	1.00	0.18	H
ATOM	2335	HB3	GLN	L	43	-4.998	-9.690	-1.496	1.00	0.18	H
ATOM	2336	O	GLN	L	43	-3.138	-8.127	-2.871	1.00	0.18	O
ATOM	2337	CG	GLN	L	43	-3.921	-11.459	-2.057	1.00	0.18	C
ATOM	2338	HG2	GLN	L	43	-3.252	-12.171	-1.577	1.00	0.18	H
ATOM	2339	HG3	GLN	L	43	-3.441	-11.097	-2.965	1.00	0.18	H
ATOM	2340	CD	GLN	L	43	-5.216	-12.155	-2.475	1.00	0.18	C
ATOM	2341	NE2	GLN	L	43	-5.445	-13.381	-2.062	1.00	0.18	N
ATOM	2342	HE21	GLN	L	43	-6.297	-13.828	-2.356	1.00	0.18	H
ATOM	2343	HE22	GLN	L	43	-4.803	-13.856	-1.438	1.00	0.18	H
ATOM	2344	OE1	GLN	L	43	-6.034	-11.614	-3.205	1.00	0.18	O
ATOM	2345	N	GLN	L	44	-1.160	-9.075	-2.435	1.00	0.22	N
ATOM	2346	H	GLN	L	44	-0.593	-9.592	-1.769	1.00	0.22	H
ATOM	2347	CA	GLN	L	44	-0.517	-8.648	-3.672	1.00	0.22	C
ATOM	2348	HA	GLN	L	44	-1.252	-8.143	-4.301	1.00	0.22	H
ATOM	2349	C	GLN	L	44	0.009	-9.850	-4.456	1.00	0.22	C
ATOM	2350	CB	GLN	L	44	0.586	-7.632	-3.360	1.00	0.22	C
ATOM	2351	HB2	GLN	L	44	1.408	-8.132	-2.844	1.00	0.22	H
ATOM	2352	HB3	GLN	L	44	0.189	-6.849	-2.712	1.00	0.22	H
ATOM	2353	O	GLN	L	44	0.706	-10.713	-3.918	1.00	0.22	O
ATOM	2354	CG	GLN	L	44	1.094	-6.992	-4.659	1.00	0.22	C
ATOM	2355	HG2	GLN	L	44	1.486	-7.757	-5.326	1.00	0.22	H

ATOM	2356	HG3	GLN	L	44	0.259	-6.497	-5.154	1.00	0.22		H
ATOM	2357	CD	GLN	L	44	2.202	-5.977	-4.442	1.00	0.22		C
ATOM	2358	NE2	GLN	L	44	2.473	-5.159	-5.425	1.00	0.22		N
ATOM	2359	HE21	GLN	L	44	1.928	-5.182	-6.284	1.00	0.22		H
ATOM	2360	HE22	GLN	L	44	3.229	-4.499	-5.292	1.00	0.22		H
ATOM	2361	OE1	GLN	L	44	2.845	-5.911	-3.407	1.00	0.22		O
ATOM	2362	N	LYS	L	45	-0.305	-9.893	-5.750	1.00	0.28		N
ATOM	2363	H	LYS	L	45	-0.833	-9.119	-6.130	1.00	0.28		H
ATOM	2364	CA	LYS	L	45	0.283	-10.840	-6.705	1.00	0.28		C
ATOM	2365	HA	LYS	L	45	0.794	-11.623	-6.147	1.00	0.28		H
ATOM	2366	C	LYS	L	45	1.340	-10.146	-7.570	1.00	0.28		C
ATOM	2367	CB	LYS	L	45	-0.826	-11.490	-7.540	1.00	0.28		C
ATOM	2368	HB2	LYS	L	45	-1.497	-10.724	-7.934	1.00	0.28		H
ATOM	2369	HB3	LYS	L	45	-0.386	-12.033	-8.378	1.00	0.28		H
ATOM	2370	O	LYS	L	45	1.289	-8.923	-7.709	1.00	0.28		O
ATOM	2371	CG	LYS	L	45	-1.596	-12.477	-6.657	1.00	0.28		C
ATOM	2372	HG2	LYS	L	45	-2.058	-11.945	-5.824	1.00	0.28		H
ATOM	2373	HG3	LYS	L	45	-0.902	-13.220	-6.259	1.00	0.28		H
ATOM	2374	CD	LYS	L	45	-2.684	-13.189	-7.454	1.00	0.28		C
ATOM	2375	HD2	LYS	L	45	-2.233	-13.745	-8.279	1.00	0.28		H
ATOM	2376	HD3	LYS	L	45	-3.387	-12.451	-7.845	1.00	0.28		H
ATOM	2377	CE	LYS	L	45	-3.396	-14.148	-6.505	1.00	0.28		C
ATOM	2378	HE2	LYS	L	45	-3.742	-13.593	-5.627	1.00	0.28		H
ATOM	2379	HE3	LYS	L	45	-2.685	-14.905	-6.153	1.00	0.28		H
ATOM	2380	NZ	LYS	L	45	-4.547	-14.794	-7.166	1.00	0.28		N
ATOM	2381	HZ1	LYS	L	45	-5.021	-15.352	-6.455	1.00	0.28		H
ATOM	2382	HZ2	LYS	L	45	-5.202	-14.110	-7.511	1.00	0.28		H
ATOM	2383	HZ3	LYS	L	45	-4.238	-15.407	-7.905	1.00	0.28		H
ATOM	2384	N	PRO	L	46	2.294	-10.891	-8.158	1.00	0.30		N
ATOM	2385	CA	PRO	L	46	3.314	-10.310	-9.027	1.00	0.30		C
ATOM	2386	HA	PRO	L	46	3.981	-9.705	-8.411	1.00	0.30		H
ATOM	2387	C	PRO	L	46	2.709	-9.434	-10.132	1.00	0.30		C
ATOM	2388	CB	PRO	L	46	4.096	-11.497	-9.594	1.00	0.30		C
ATOM	2389	HB2	PRO	L	46	3.628	-11.852	-10.515	1.00	0.30		H
ATOM	2390	HB3	PRO	L	46	5.142	-11.245	-9.772	1.00	0.30		H
ATOM	2391	O	PRO	L	46	1.675	-9.775	-10.707	1.00	0.30		O
ATOM	2392	CG	PRO	L	46	3.946	-12.562	-8.510	1.00	0.30		C
ATOM	2393	HG2	PRO	L	46	4.070	-13.569	-8.908	1.00	0.30		H
ATOM	2394	HG3	PRO	L	46	4.660	-12.372	-7.706	1.00	0.30		H
ATOM	2395	CD	PRO	L	46	2.525	-12.322	-8.003	1.00	0.30		C
ATOM	2396	HD2	PRO	L	46	1.817	-12.875	-8.622	1.00	0.30		H
ATOM	2397	HD3	PRO	L	46	2.450	-12.640	-6.963	1.00	0.30		H
ATOM	2398	N	GLY	L	47	3.333	-8.284	-10.399	1.00	0.30		N

ATOM	2399	H	GLY	L	47	4.157	-8.047	-9.868	1.00	0.30		H
ATOM	2400	CA	GLY	L	47	2.887	-7.332	-11.426	1.00	0.30		C
ATOM	2401	HA2	GLY	L	47	2.827	-7.847	-12.385	1.00	0.30		H
ATOM	2402	HA3	GLY	L	47	3.626	-6.536	-11.514	1.00	0.30		H
ATOM	2403	C	GLY	L	47	1.525	-6.670	-11.170	1.00	0.30		C
ATOM	2404	O	GLY	L	47	0.996	-6.032	-12.073	1.00	0.30		O
ATOM	2405	N	SER	L	48	0.946	-6.831	-9.976	1.00	0.26		N
ATOM	2406	H	SER	L	48	1.440	-7.352	-9.263	1.00	0.26		H
ATOM	2407	CA	SER	L	48	-0.375	-6.307	-9.609	1.00	0.26		C
ATOM	2408	HA	SER	L	48	-0.817	-5.782	-10.457	1.00	0.26		H
ATOM	2409	C	SER	L	48	-0.268	-5.334	-8.434	1.00	0.26		C
ATOM	2410	CB	SER	L	48	-1.309	-7.458	-9.216	1.00	0.26		C
ATOM	2411	HB2	SER	L	48	-2.323	-7.074	-9.095	1.00	0.26		H
ATOM	2412	HB3	SER	L	48	-0.985	-7.872	-8.261	1.00	0.26		H
ATOM	2413	O	SER	L	48	0.596	-5.493	-7.569	1.00	0.26		O
ATOM	2414	OG	SER	L	48	-1.312	-8.491	-10.185	1.00	0.26		O
ATOM	2415	HG	SER	L	48	-0.395	-8.719	-10.393	1.00	0.26		H
ATOM	2416	N	ALA	L	49	-1.184	-4.369	-8.355	1.00	0.24		N
ATOM	2417	H	ALA	L	49	-1.866	-4.271	-9.089	1.00	0.24		H
ATOM	2418	CA	ALA	L	49	-1.337	-3.537	-7.163	1.00	0.24		C
ATOM	2419	HA	ALA	L	49	-0.363	-3.106	-6.937	1.00	0.24		H
ATOM	2420	C	ALA	L	49	-1.821	-4.369	-5.946	1.00	0.24		C
ATOM	2421	CB	ALA	L	49	-2.297	-2.389	-7.487	1.00	0.24		C
ATOM	2422	HB1	ALA	L	49	-2.357	-1.709	-6.636	1.00	0.24		H
ATOM	2423	HB2	ALA	L	49	-1.926	-1.834	-8.350	1.00	0.24		H
ATOM	2424	HB3	ALA	L	49	-3.293	-2.777	-7.704	1.00	0.24		H
ATOM	2425	O	ALA	L	49	-2.521	-5.372	-6.133	1.00	0.24		O
ATOM	2426	N	PRO	L	50	-1.484	-3.984	-4.699	1.00	0.17		N
ATOM	2427	CA	PRO	L	50	-2.031	-4.612	-3.494	1.00	0.17		C
ATOM	2428	HA	PRO	L	50	-1.773	-5.671	-3.506	1.00	0.17		H
ATOM	2429	C	PRO	L	50	-3.557	-4.459	-3.390	1.00	0.17		C
ATOM	2430	CB	PRO	L	50	-1.324	-3.934	-2.310	1.00	0.17		C
ATOM	2431	HB2	PRO	L	50	-1.927	-3.113	-1.919	1.00	0.17		H
ATOM	2432	HB3	PRO	L	50	-1.096	-4.646	-1.517	1.00	0.17		H
ATOM	2433	O	PRO	L	50	-4.083	-3.348	-3.377	1.00	0.17		O
ATOM	2434	CG	PRO	L	50	-0.047	-3.358	-2.918	1.00	0.17		C
ATOM	2435	HG2	PRO	L	50	0.310	-2.488	-2.367	1.00	0.17		H
ATOM	2436	HG3	PRO	L	50	0.723	-4.127	-2.949	1.00	0.17		H
ATOM	2437	CD	PRO	L	50	-0.477	-2.997	-4.337	1.00	0.17		C
ATOM	2438	HD2	PRO	L	50	0.391	-3.032	-4.995	1.00	0.17		H
ATOM	2439	HD3	PRO	L	50	-0.925	-2.004	-4.354	1.00	0.17		H
ATOM	2440	N	ARG	L	51	-4.283	-5.571	-3.250	1.00	0.20		N
ATOM	2441	H	ARG	L	51	-3.799	-6.464	-3.275	1.00	0.20		H

ATOM	2442	CA	ARG L	51	-5.718	-5.577	-2.933	1.00	0.20	C
ATOM	2443	HA	ARG L	51	-6.176	-4.684	-3.364	1.00	0.20	H
ATOM	2444	C	ARG L	51	-5.918	-5.545	-1.421	1.00	0.20	C
ATOM	2445	CB	ARG L	51	-6.382	-6.827	-3.541	1.00	0.20	C
ATOM	2446	HB2	ARG L	51	-5.988	-7.723	-3.057	1.00	0.20	H
ATOM	2447	HB3	ARG L	51	-6.160	-6.880	-4.608	1.00	0.20	H
ATOM	2448	O	ARG L	51	-5.418	-6.432	-0.737	1.00	0.20	O
ATOM	2449	CG	ARG L	51	-7.906	-6.760	-3.347	1.00	0.20	C
ATOM	2450	HG2	ARG L	51	-8.309	-5.957	-3.966	1.00	0.20	H
ATOM	2451	HG3	ARG L	51	-8.124	-6.529	-2.309	1.00	0.20	H
ATOM	2452	CD	ARG L	51	-8.642	-8.062	-3.667	1.00	0.20	C
ATOM	2453	HD2	ARG L	51	-8.189	-8.877	-3.099	1.00	0.20	H
ATOM	2454	HD3	ARG L	51	-8.547	-8.274	-4.734	1.00	0.20	H
ATOM	2455	NE	ARG L	51	-10.064	-7.921	-3.294	1.00	0.20	N
ATOM	2456	HE	ARG L	51	-10.327	-7.055	-2.847	1.00	0.20	H
ATOM	2457	NH1	ARG L	51	-10.809	-10.008	-3.902	1.00	0.20	N
ATOM	2458	HH11	ARG L	51	-11.583	-10.637	-4.023	1.00	0.20	H
ATOM	2459	HH12	ARG L	51	-9.861	-10.295	-4.069	1.00	0.20	H
ATOM	2460	NH2	ARG L	51	-12.264	-8.496	-3.197	1.00	0.20	N
ATOM	2461	HH21	ARG L	51	-12.531	-7.602	-2.806	1.00	0.20	H
ATOM	2462	HH22	ARG L	51	-12.980	-9.199	-3.319	1.00	0.20	H
ATOM	2463	CZ	ARG L	51	-11.031	-8.801	-3.465	1.00	0.20	C
ATOM	2464	N	LEU L	52	-6.702	-4.605	-0.897	1.00	0.19	N
ATOM	2465	H	LEU L	52	-7.079	-3.888	-1.496	1.00	0.19	H
ATOM	2466	CA	LEU L	52	-7.162	-4.659	0.495	1.00	0.19	C
ATOM	2467	HA	LEU L	52	-6.292	-4.776	1.142	1.00	0.19	H
ATOM	2468	C	LEU L	52	-8.087	-5.875	0.700	1.00	0.19	C
ATOM	2469	CB	LEU L	52	-7.853	-3.327	0.840	1.00	0.19	C
ATOM	2470	HB2	LEU L	52	-8.744	-3.236	0.216	1.00	0.19	H
ATOM	2471	HB3	LEU L	52	-7.188	-2.500	0.591	1.00	0.19	H
ATOM	2472	O	LEU L	52	-9.055	-6.045	-0.042	1.00	0.19	O
ATOM	2473	CG	LEU L	52	-8.276	-3.190	2.315	1.00	0.19	C
ATOM	2474	HG	LEU L	52	-8.830	-4.073	2.620	1.00	0.19	H
ATOM	2475	CD1	LEU L	52	-7.098	-3.039	3.272	1.00	0.19	C
ATOM	2476	HD11	LEU L	52	-6.556	-2.120	3.053	1.00	0.19	H
ATOM	2477	HD12	LEU L	52	-6.425	-3.890	3.192	1.00	0.19	H
ATOM	2478	HD13	LEU L	52	-7.484	-2.994	4.289	1.00	0.19	H
ATOM	2479	CD2	LEU L	52	-9.152	-1.949	2.485	1.00	0.19	C
ATOM	2480	HD21	LEU L	52	-8.578	-1.055	2.246	1.00	0.19	H
ATOM	2481	HD22	LEU L	52	-9.521	-1.894	3.509	1.00	0.19	H
ATOM	2482	HD23	LEU L	52	-10.015	-2.007	1.821	1.00	0.19	H
ATOM	2483	N	LEU L	53	-7.775	-6.728	1.680	1.00	0.14	N
ATOM	2484	H	LEU L	53	-6.949	-6.538	2.237	1.00	0.14	H

ATOM	2485	CA	LEU	L	53	-8.621	-7.862	2.066	1.00	0.14	C
ATOM	2486	HA	LEU	L	53	-9.366	-8.028	1.293	1.00	0.14	H
ATOM	2487	C	LEU	L	53	-9.400	-7.614	3.355	1.00	0.14	C
ATOM	2488	CB	LEU	L	53	-7.801	-9.152	2.227	1.00	0.14	C
ATOM	2489	HB2	LEU	L	53	-7.031	-9.000	2.985	1.00	0.14	H
ATOM	2490	HB3	LEU	L	53	-8.489	-9.906	2.614	1.00	0.14	H
ATOM	2491	O	LEU	L	53	-10.552	-8.032	3.456	1.00	0.14	O
ATOM	2492	CG	LEU	L	53	-7.135	-9.717	0.959	1.00	0.14	C
ATOM	2493	HG	LEU	L	53	-6.195	-9.193	0.788	1.00	0.14	H
ATOM	2494	CD1	LEU	L	53	-6.861	-11.202	1.206	1.00	0.14	C
ATOM	2495	HD11	LEU	L	53	-6.162	-11.315	2.035	1.00	0.14	H
ATOM	2496	HD12	LEU	L	53	-7.788	-11.723	1.448	1.00	0.14	H
ATOM	2497	HD13	LEU	L	53	-6.451	-11.668	0.313	1.00	0.14	H
ATOM	2498	CD2	LEU	L	53	-7.981	-9.633	-0.312	1.00	0.14	C
ATOM	2499	HD21	LEU	L	53	-8.938	-10.119	-0.147	1.00	0.14	H
ATOM	2500	HD22	LEU	L	53	-8.139	-8.590	-0.580	1.00	0.14	H
ATOM	2501	HD23	LEU	L	53	-7.462	-10.126	-1.134	1.00	0.14	H
ATOM	2502	N	ILE	L	54	-8.757	-6.998	4.349	1.00	0.24	N
ATOM	2503	H	ILE	L	54	-7.822	-6.649	4.177	1.00	0.24	H
ATOM	2504	CA	ILE	L	54	-9.324	-6.804	5.687	1.00	0.24	C
ATOM	2505	HA	ILE	L	54	-10.407	-6.798	5.591	1.00	0.24	H
ATOM	2506	C	ILE	L	54	-8.912	-5.439	6.229	1.00	0.24	C
ATOM	2507	CB	ILE	L	54	-8.921	-7.968	6.635	1.00	0.24	C
ATOM	2508	HB	ILE	L	54	-7.839	-8.062	6.618	1.00	0.24	H
ATOM	2509	O	ILE	L	54	-7.743	-5.066	6.128	1.00	0.24	O
ATOM	2510	CG1	ILE	L	54	-9.522	-9.294	6.106	1.00	0.24	C
ATOM	2511	HG12	ILE	L	54	-10.567	-9.131	5.854	1.00	0.24	H
ATOM	2512	HG13	ILE	L	54	-8.990	-9.581	5.199	1.00	0.24	H
ATOM	2513	CG2	ILE	L	54	-9.311	-7.710	8.105	1.00	0.24	C
ATOM	2514	HG21	ILE	L	54	-10.394	-7.666	8.196	1.00	0.24	H
ATOM	2515	HG22	ILE	L	54	-8.882	-6.777	8.466	1.00	0.24	H
ATOM	2516	HG23	ILE	L	54	-8.932	-8.504	8.745	1.00	0.24	H
ATOM	2517	CD1	ILE	L	54	-9.477	-10.490	7.051	1.00	0.24	C
ATOM	2518	HD11	ILE	L	54	-10.209	-10.341	7.843	1.00	0.24	H
ATOM	2519	HD12	ILE	L	54	-8.479	-10.596	7.474	1.00	0.24	H
ATOM	2520	HD13	ILE	L	54	-9.738	-11.396	6.502	1.00	0.24	H
ATOM	2521	N	SER	L	55	-9.841	-4.736	6.869	1.00	0.26	N
ATOM	2522	H	SER	L	55	-10.790	-5.105	6.876	1.00	0.26	H
ATOM	2523	CA	SER	L	55	-9.610	-3.505	7.633	1.00	0.26	C
ATOM	2524	HA	SER	L	55	-8.545	-3.280	7.638	1.00	0.26	H
ATOM	2525	C	SER	L	55	-10.048	-3.678	9.098	1.00	0.26	C
ATOM	2526	CB	SER	L	55	-10.319	-2.331	6.946	1.00	0.26	C
ATOM	2527	HB2	SER	L	55	-9.967	-2.240	5.918	1.00	0.26	H

ATOM	2528	HB3	SER	L	55	-10.085	-1.408	7.475	1.00	0.26	H
ATOM	2529	O	SER	L	55	-10.634	-4.692	9.487	1.00	0.26	O
ATOM	2530	OG	SER	L	55	-11.715	-2.520	6.949	1.00	0.26	O
ATOM	2531	HG	SER	L	55	-11.966	-2.764	6.015	1.00	0.26	H
ATOM	2532	N	GLY	L	56	-9.695	-2.727	9.973	1.00	0.37	N
ATOM	2533	H	GLY	L	56	-9.186	-1.930	9.627	1.00	0.37	H
ATOM	2534	CA	GLY	L	56	-10.068	-2.769	11.400	1.00	0.37	C
ATOM	2535	HA2	GLY	L	56	-11.151	-2.664	11.487	1.00	0.37	H
ATOM	2536	HA3	GLY	L	56	-9.597	-1.932	11.913	1.00	0.37	H
ATOM	2537	C	GLY	L	56	-9.653	-4.061	12.126	1.00	0.37	C
ATOM	2538	O	GLY	L	56	-10.389	-4.567	12.975	1.00	0.37	O
ATOM	2539	N	ALA	L	57	-8.528	-4.651	11.712	1.00	0.21	N
ATOM	2540	H	ALA	L	57	-8.006	-4.159	10.995	1.00	0.21	H
ATOM	2541	CA	ALA	L	57	-7.989	-5.951	12.118	1.00	0.21	C
ATOM	2542	HA	ALA	L	57	-7.090	-6.113	11.522	1.00	0.21	H
ATOM	2543	C	ALA	L	57	-8.885	-7.183	11.856	1.00	0.21	C
ATOM	2544	CB	ALA	L	57	-7.547	-5.864	13.585	1.00	0.21	C
ATOM	2545	HB1	ALA	L	57	-6.864	-5.027	13.725	1.00	0.21	H
ATOM	2546	HB2	ALA	L	57	-8.417	-5.733	14.226	1.00	0.21	H
ATOM	2547	HB3	ALA	L	57	-7.043	-6.788	13.865	1.00	0.21	H
ATOM	2548	O	ALA	L	57	-8.422	-8.302	12.065	1.00	0.21	O
ATOM	2549	N	THR	L	65	-10.140	-7.011	11.430	1.00	0.35	N
ATOM	2550	H	THR	L	65	-10.423	-6.067	11.200	1.00	0.35	H
ATOM	2551	CA	THR	L	65	-11.196	-8.042	11.524	1.00	0.35	C
ATOM	2552	HA	THR	L	65	-10.755	-9.033	11.437	1.00	0.35	H
ATOM	2553	C	THR	L	65	-12.283	-7.947	10.447	1.00	0.35	C
ATOM	2554	CB	THR	L	65	-11.904	-7.955	12.889	1.00	0.35	C
ATOM	2555	HB	THR	L	65	-12.749	-8.645	12.883	1.00	0.35	H
ATOM	2556	O	THR	L	65	-12.884	-8.966	10.119	1.00	0.35	O
ATOM	2557	CG2	THR	L	65	-11.017	-8.319	14.080	1.00	0.35	C
ATOM	2558	HG21	THR	L	65	-10.569	-9.299	13.913	1.00	0.35	H
ATOM	2559	HG22	THR	L	65	-11.630	-8.361	14.981	1.00	0.35	H
ATOM	2560	HG23	THR	L	65	-10.232	-7.578	14.219	1.00	0.35	H
ATOM	2561	OG1	THR	L	65	-12.392	-6.645	13.105	1.00	0.35	O
ATOM	2562	HG1	THR	L	65	-11.641	-6.039	13.197	1.00	0.35	H
ATOM	2563	N	SER	L	66	-12.543	-6.761	9.886	1.00	0.29	N
ATOM	2564	H	SER	L	66	-11.910	-5.990	10.054	1.00	0.29	H
ATOM	2565	CA	SER	L	66	-13.625	-6.522	8.922	1.00	0.29	C
ATOM	2566	HA	SER	L	66	-14.498	-7.107	9.212	1.00	0.29	H
ATOM	2567	C	SER	L	66	-13.211	-6.931	7.511	1.00	0.29	C
ATOM	2568	CB	SER	L	66	-14.029	-5.045	8.941	1.00	0.29	C
ATOM	2569	HB2	SER	L	66	-14.808	-4.869	8.197	1.00	0.29	H
ATOM	2570	HB3	SER	L	66	-13.168	-4.417	8.704	1.00	0.29	H

ATOM	2571	O	SER	L	66	-12.237	-6.410	6.978	1.00	0.29	O
ATOM	2572	OG	SER	L	66	-14.528	-4.721	10.227	1.00	0.29	O
ATOM	2573	HG	SER	L	66	-13.861	-4.958	10.877	1.00	0.29	H
ATOM	2574	N	LEU	L	67	-13.939	-7.878	6.920	1.00	0.23	N
ATOM	2575	H	LEU	L	67	-14.739	-8.237	7.414	1.00	0.23	H
ATOM	2576	CA	LEU	L	67	-13.681	-8.418	5.584	1.00	0.23	C
ATOM	2577	HA	LEU	L	67	-12.607	-8.535	5.460	1.00	0.23	H
ATOM	2578	C	LEU	L	67	-14.186	-7.467	4.489	1.00	0.23	C
ATOM	2579	CB	LEU	L	67	-14.356	-9.801	5.514	1.00	0.23	C
ATOM	2580	HB2	LEU	L	67	-15.437	-9.651	5.541	1.00	0.23	H
ATOM	2581	HB3	LEU	L	67	-14.079	-10.378	6.398	1.00	0.23	H
ATOM	2582	O	LEU	L	67	-15.353	-7.077	4.509	1.00	0.23	O
ATOM	2583	CG	LEU	L	67	-14.011	-10.633	4.269	1.00	0.23	C
ATOM	2584	HG	LEU	L	67	-14.202	-10.047	3.373	1.00	0.23	H
ATOM	2585	CD1	LEU	L	67	-12.550	-11.085	4.297	1.00	0.23	C
ATOM	2586	HD11	LEU	L	67	-12.314	-11.540	5.259	1.00	0.23	H
ATOM	2587	HD12	LEU	L	67	-11.895	-10.235	4.117	1.00	0.23	H
ATOM	2588	HD13	LEU	L	67	-12.388	-11.824	3.518	1.00	0.23	H
ATOM	2589	CD2	LEU	L	67	-14.883	-11.888	4.223	1.00	0.23	C
ATOM	2590	HD21	LEU	L	67	-15.934	-11.602	4.207	1.00	0.23	H
ATOM	2591	HD22	LEU	L	67	-14.683	-12.515	5.092	1.00	0.23	H
ATOM	2592	HD23	LEU	L	67	-14.663	-12.446	3.312	1.00	0.23	H
ATOM	2593	N	GLU	L	68	-13.328	-7.111	3.532	1.00	0.27	N
ATOM	2594	H	GLU	L	68	-12.376	-7.457	3.563	1.00	0.27	H
ATOM	2595	CA	GLU	L	68	-13.694	-6.176	2.466	1.00	0.27	C
ATOM	2596	HA	GLU	L	68	-14.243	-5.357	2.932	1.00	0.27	H
ATOM	2597	C	GLU	L	68	-14.654	-6.756	1.418	1.00	0.27	C
ATOM	2598	CB	GLU	L	68	-12.443	-5.597	1.784	1.00	0.27	C
ATOM	2599	HB2	GLU	L	68	-11.797	-6.407	1.448	1.00	0.27	H
ATOM	2600	HB3	GLU	L	68	-12.748	-5.036	0.899	1.00	0.27	H
ATOM	2601	O	GLU	L	68	-14.782	-7.969	1.217	1.00	0.27	O
ATOM	2602	CG	GLU	L	68	-11.635	-4.650	2.678	1.00	0.27	C
ATOM	2603	HG2	GLU	L	68	-10.887	-4.192	2.037	1.00	0.27	H
ATOM	2604	HG3	GLU	L	68	-11.123	-5.232	3.447	1.00	0.27	H
ATOM	2605	CD	GLU	L	68	-12.470	-3.539	3.335	1.00	0.27	C
ATOM	2606	OE1	GLU	L	68	-13.453	-3.096	2.695	1.00	0.27	O
ATOM	2607	OE2	GLU	L	68	-12.117	-3.145	4.472	1.00	0.27	O
ATOM	2608	N	THR	L	69	-15.323	-5.850	0.701	1.00	0.39	N
ATOM	2609	H	THR	L	69	-15.118	-4.876	0.883	1.00	0.39	H
ATOM	2610	CA	THR	L	69	-16.329	-6.204	-0.310	1.00	0.39	C
ATOM	2611	HA	THR	L	69	-17.126	-6.742	0.203	1.00	0.39	H
ATOM	2612	C	THR	L	69	-15.751	-7.135	-1.386	1.00	0.39	C
ATOM	2613	CB	THR	L	69	-16.958	-4.946	-0.926	1.00	0.39	C

ATOM	2614	HB	THR L	69	-16.173	-4.292	-1.307	1.00	0.39	H
ATOM	2615	O	THR L	69	-14.716	-6.868	-2.004	1.00	0.39	O
ATOM	2616	CG2	THR L	69	-17.949	-5.244	-2.053	1.00	0.39	C
ATOM	2617	HG21	THR L	69	-18.710	-5.942	-1.707	1.00	0.39	H
ATOM	2618	HG22	THR L	69	-18.432	-4.316	-2.360	1.00	0.39	H
ATOM	2619	HG23	THR L	69	-17.427	-5.659	-2.915	1.00	0.39	H
ATOM	2620	OG1	THR L	69	-17.694	-4.268	0.065	1.00	0.39	O
ATOM	2621	HG1	THR L	69	-17.092	-3.981	0.758	1.00	0.39	H
ATOM	2622	N	GLY L	70	-16.439	-8.257	-1.621	1.00	0.26	N
ATOM	2623	H	GLY L	70	-17.252	-8.440	-1.051	1.00	0.26	H
ATOM	2624	CA	GLY L	70	-16.058	-9.253	-2.625	1.00	0.26	C
ATOM	2625	HA2	GLY L	70	-16.879	-9.961	-2.740	1.00	0.26	H
ATOM	2626	HA3	GLY L	70	-15.902	-8.754	-3.582	1.00	0.26	H
ATOM	2627	C	GLY L	70	-14.795	-10.059	-2.291	1.00	0.26	C
ATOM	2628	O	GLY L	70	-14.169	-10.605	-3.204	1.00	0.26	O
ATOM	2629	N	VAL L	71	-14.335	-10.082	-1.038	1.00	0.22	N
ATOM	2630	H	VAL L	71	-14.807	-9.533	-0.323	1.00	0.22	H
ATOM	2631	CA	VAL L	71	-13.288	-11.014	-0.582	1.00	0.22	C
ATOM	2632	HA	VAL L	71	-12.600	-11.192	-1.402	1.00	0.22	H
ATOM	2633	C	VAL L	71	-13.942	-12.339	-0.152	1.00	0.22	C
ATOM	2634	CB	VAL L	71	-12.458	-10.414	0.566	1.00	0.22	C
ATOM	2635	HB	VAL L	71	-13.107	-10.242	1.420	1.00	0.22	H
ATOM	2636	O	VAL L	71	-14.972	-12.305	0.523	1.00	0.22	O
ATOM	2637	CG1	VAL L	71	-11.320	-11.356	0.986	1.00	0.22	C
ATOM	2638	HG11	VAL L	71	-11.724	-12.283	1.391	1.00	0.22	H
ATOM	2639	HG12	VAL L	71	-10.722	-10.882	1.765	1.00	0.22	H
ATOM	2640	HG13	VAL L	71	-10.683	-11.590	0.135	1.00	0.22	H
ATOM	2641	CG2	VAL L	71	-11.821	-9.082	0.162	1.00	0.22	C
ATOM	2642	HG21	VAL L	71	-12.576	-8.377	-0.181	1.00	0.22	H
ATOM	2643	HG22	VAL L	71	-11.358	-8.648	1.042	1.00	0.22	H
ATOM	2644	HG23	VAL L	71	-11.075	-9.228	-0.615	1.00	0.22	H
ATOM	2645	N	PRO L	72	-13.400	-13.519	-0.516	1.00	0.29	N
ATOM	2646	CA	PRO L	72	-13.967	-14.798	-0.087	1.00	0.29	C
ATOM	2647	HA	PRO L	72	-14.998	-14.849	-0.438	1.00	0.29	H
ATOM	2648	C	PRO L	72	-13.939	-14.985	1.439	1.00	0.29	C
ATOM	2649	CB	PRO L	72	-13.143	-15.878	-0.800	1.00	0.29	C
ATOM	2650	HB2	PRO L	72	-12.312	-16.194	-0.170	1.00	0.29	H
ATOM	2651	HB3	PRO L	72	-13.755	-16.735	-1.083	1.00	0.29	H
ATOM	2652	O	PRO L	72	-12.922	-14.737	2.085	1.00	0.29	O
ATOM	2653	CG	PRO L	72	-12.579	-15.156	-2.021	1.00	0.29	C
ATOM	2654	HG2	PRO L	72	-13.329	-15.128	-2.812	1.00	0.29	H
ATOM	2655	HG3	PRO L	72	-11.657	-15.619	-2.376	1.00	0.29	H
ATOM	2656	CD	PRO L	72	-12.338	-13.746	-1.487	1.00	0.29	C

ATOM	2657	HD2 PRO L	72	-11.369	-13.698	-0.987	1.00	0.29	H
ATOM	2658	HD3 PRO L	72	-12.380	-13.038	-2.314	1.00	0.29	H
ATOM	2659	N SER L	74	-15.015	-15.538	2.008	1.00	0.26	N
ATOM	2660	H SER L	74	-15.803	-15.766	1.420	1.00	0.26	H
ATOM	2661	CA SER L	74	-15.205	-15.749	3.457	1.00	0.26	C
ATOM	2662	HA SER L	74	-15.046	-14.796	3.963	1.00	0.26	H
ATOM	2663	C SER L	74	-14.248	-16.757	4.115	1.00	0.26	C
ATOM	2664	CB SER L	74	-16.655	-16.179	3.706	1.00	0.26	C
ATOM	2665	HB2 SER L	74	-17.325	-15.418	3.304	1.00	0.26	H
ATOM	2666	HB3 SER L	74	-16.840	-16.269	4.778	1.00	0.26	H
ATOM	2667	O SER L	74	-14.420	-17.086	5.286	1.00	0.26	O
ATOM	2668	OG SER L	74	-16.917	-17.414	3.067	1.00	0.26	O
ATOM	2669	HG SER L	74	-16.667	-18.122	3.672	1.00	0.26	H
ATOM	2670	N ARG L	75	-13.263	-17.281	3.376	1.00	0.20	N
ATOM	2671	H ARG L	75	-13.180	-16.940	2.430	1.00	0.20	H
ATOM	2672	CA ARG L	75	-12.190	-18.134	3.908	1.00	0.20	C
ATOM	2673	HA ARG L	75	-12.611	-18.731	4.720	1.00	0.20	H
ATOM	2674	C ARG L	75	-11.039	-17.340	4.540	1.00	0.20	C
ATOM	2675	CB ARG L	75	-11.728	-19.120	2.822	1.00	0.20	C
ATOM	2676	HB2 ARG L	75	-12.609	-19.588	2.379	1.00	0.20	H
ATOM	2677	HB3 ARG L	75	-11.163	-19.905	3.309	1.00	0.20	H
ATOM	2678	O ARG L	75	-10.253	-17.930	5.283	1.00	0.20	O
ATOM	2679	CG ARG L	75	-10.868	-18.511	1.706	1.00	0.20	C
ATOM	2680	HG2 ARG L	75	-11.395	-17.664	1.272	1.00	0.20	H
ATOM	2681	HG3 ARG L	75	-9.922	-18.160	2.120	1.00	0.20	H
ATOM	2682	CD ARG L	75	-10.578	-19.539	0.602	1.00	0.20	C
ATOM	2683	HD2 ARG L	75	-9.968	-20.347	1.014	1.00	0.20	H
ATOM	2684	HD3 ARG L	75	-11.518	-19.963	0.247	1.00	0.20	H
ATOM	2685	NE ARG L	75	-9.850	-18.901	-0.505	1.00	0.20	N
ATOM	2686	HE ARG L	75	-8.860	-18.694	-0.344	1.00	0.20	H
ATOM	2687	NH1 ARG L	75	-11.295	-19.222	-2.293	1.00	0.20	N
ATOM	2688	HH11 ARG L	75	-11.720	-20.021	-1.844	1.00	0.20	H
ATOM	2689	HH12 ARG L	75	-11.305	-19.190	-3.306	1.00	0.20	H
ATOM	2690	NH2 ARG L	75	-9.531	-17.980	-2.543	1.00	0.20	N
ATOM	2691	HH21 ARG L	75	-8.633	-17.631	-2.201	1.00	0.20	H
ATOM	2692	HH22 ARG L	75	-9.690	-18.092	-3.538	1.00	0.20	H
ATOM	2693	CZ ARG L	75	-10.235	-18.708	-1.749	1.00	0.20	C
ATOM	2694	N PHE L	76	-10.960	-16.034	4.255	1.00	0.14	N
ATOM	2695	H PHE L	76	-11.668	-15.648	3.645	1.00	0.14	H
ATOM	2696	CA PHE L	76	-10.083	-15.068	4.921	1.00	0.14	C
ATOM	2697	HA PHE L	76	-9.139	-15.552	5.172	1.00	0.14	H
ATOM	2698	C PHE L	76	-10.719	-14.538	6.212	1.00	0.14	C
ATOM	2699	CB PHE L	76	-9.795	-13.895	3.971	1.00	0.14	C

ATOM	2700	HB2	PHE	L	76	-10.738	-13.502	3.589	1.00	0.14	H
ATOM	2701	HB3	PHE	L	76	-9.316	-13.094	4.536	1.00	0.14	H
ATOM	2702	O	PHE	L	76	-11.889	-14.163	6.222	1.00	0.14	O
ATOM	2703	CG	PHE	L	76	-8.895	-14.254	2.809	1.00	0.14	C
ATOM	2704	CD1	PHE	L	76	-7.501	-14.243	2.992	1.00	0.14	C
ATOM	2705	HD1	PHE	L	76	-7.081	-13.990	3.952	1.00	0.14	H
ATOM	2706	CD2	PHE	L	76	-9.434	-14.615	1.559	1.00	0.14	C
ATOM	2707	HD2	PHE	L	76	-10.503	-14.633	1.416	1.00	0.14	H
ATOM	2708	CE1	PHE	L	76	-6.649	-14.579	1.930	1.00	0.14	C
ATOM	2709	HE1	PHE	L	76	-5.581	-14.579	2.074	1.00	0.14	H
ATOM	2710	CE2	PHE	L	76	-8.579	-14.969	0.500	1.00	0.14	C
ATOM	2711	HE2	PHE	L	76	-8.982	-15.278	-0.454	1.00	0.14	H
ATOM	2712	CZ	PHE	L	76	-7.187	-14.946	0.687	1.00	0.14	C
ATOM	2713	HZ	PHE	L	76	-6.528	-15.234	-0.120	1.00	0.14	H
ATOM	2714	N	SER	L	77	-9.935	-14.443	7.289	1.00	0.16	N
ATOM	2715	H	SER	L	77	-9.011	-14.861	7.246	1.00	0.16	H
ATOM	2716	CA	SER	L	77	-10.394	-13.890	8.572	1.00	0.16	C
ATOM	2717	HA	SER	L	77	-11.188	-13.167	8.378	1.00	0.16	H
ATOM	2718	C	SER	L	77	-9.271	-13.175	9.324	1.00	0.16	C
ATOM	2719	CB	SER	L	77	-10.982	-14.999	9.453	1.00	0.16	C
ATOM	2720	HB2	SER	L	77	-11.782	-15.512	8.916	1.00	0.16	H
ATOM	2721	HB3	SER	L	77	-11.399	-14.553	10.358	1.00	0.16	H
ATOM	2722	O	SER	L	77	-8.185	-13.734	9.504	1.00	0.16	O
ATOM	2723	OG	SER	L	77	-9.977	-15.930	9.814	1.00	0.16	O
ATOM	2724	HG	SER	L	77	-9.182	-15.420	10.014	1.00	0.16	H
ATOM	2725	N	GLY	L	78	-9.551	-11.964	9.803	1.00	0.11	N
ATOM	2726	H	GLY	L	78	-10.482	-11.599	9.658	1.00	0.11	H
ATOM	2727	CA	GLY	L	78	-8.645	-11.162	10.622	1.00	0.11	C
ATOM	2728	HA2	GLY	L	78	-8.813	-10.108	10.415	1.00	0.11	H
ATOM	2729	HA3	GLY	L	78	-7.610	-11.395	10.369	1.00	0.11	H
ATOM	2730	C	GLY	L	78	-8.864	-11.406	12.113	1.00	0.11	C
ATOM	2731	O	GLY	L	78	-9.939	-11.827	12.537	1.00	0.11	O
ATOM	2732	N	SER	L	79	-7.827	-11.179	12.913	1.00	0.22	N
ATOM	2733	H	SER	L	79	-6.978	-10.806	12.510	1.00	0.22	H
ATOM	2734	CA	SER	L	79	-7.824	-11.459	14.348	1.00	0.22	C
ATOM	2735	HA	SER	L	79	-8.778	-11.153	14.779	1.00	0.22	H
ATOM	2736	C	SER	L	79	-6.701	-10.703	15.054	1.00	0.22	C
ATOM	2737	CB	SER	L	79	-7.641	-12.967	14.559	1.00	0.22	C
ATOM	2738	HB2	SER	L	79	-8.470	-13.503	14.093	1.00	0.22	H
ATOM	2739	HB3	SER	L	79	-7.635	-13.196	15.626	1.00	0.22	H
ATOM	2740	O	SER	L	79	-5.723	-10.294	14.422	1.00	0.22	O
ATOM	2741	OG	SER	L	79	-6.419	-13.392	13.976	1.00	0.22	O
ATOM	2742	HG	SER	L	79	-6.371	-12.995	13.085	1.00	0.22	H

ATOM	2743	N	GLY	L	80	-6.825	-10.574	16.375	1.00	0.30		N
ATOM	2744	H	GLY	L	80	-7.684	-10.869	16.811	1.00	0.30		H
ATOM	2745	CA	GLY	L	80	-5.802	-10.001	17.243	1.00	0.30		C
ATOM	2746	HA2	GLY	L	80	-5.531	-10.724	18.012	1.00	0.30		H
ATOM	2747	HA3	GLY	L	80	-4.908	-9.780	16.672	1.00	0.30		H
ATOM	2748	C	GLY	L	80	-6.224	-8.710	17.925	1.00	0.30		C
ATOM	2749	O	GLY	L	80	-7.333	-8.203	17.734	1.00	0.30		O
ATOM	2750	N	SER	L	83	-5.326	-8.202	18.757	1.00	0.30		N
ATOM	2751	H	SER	L	83	-4.404	-8.629	18.793	1.00	0.30		H
ATOM	2752	CA	SER	L	83	-5.579	-7.060	19.630	1.00	0.30		C
ATOM	2753	HA	SER	L	83	-6.071	-6.278	19.055	1.00	0.30		H
ATOM	2754	C	SER	L	83	-4.281	-6.503	20.193	1.00	0.30		C
ATOM	2755	CB	SER	L	83	-6.488	-7.464	20.798	1.00	0.30		C
ATOM	2756	HB2	SER	L	83	-6.624	-6.611	21.464	1.00	0.30		H
ATOM	2757	HB3	SER	L	83	-7.465	-7.760	20.415	1.00	0.30		H
ATOM	2758	O	SER	L	83	-3.324	-7.237	20.446	1.00	0.30		O
ATOM	2759	OG	SER	L	83	-5.927	-8.546	21.523	1.00	0.30		O
ATOM	2760	HG	SER	L	83	-4.987	-8.377	21.660	1.00	0.30		H
ATOM	2761	N	GLY	L	84	-4.280	-5.204	20.467	1.00	0.31		N
ATOM	2762	H	GLY	L	84	-5.089	-4.652	20.217	1.00	0.31		H
ATOM	2763	CA	GLY	L	84	-3.132	-4.512	21.032	1.00	0.31		C
ATOM	2764	HA2	GLY	L	84	-2.789	-5.017	21.935	1.00	0.31		H
ATOM	2765	HA3	GLY	L	84	-3.446	-3.511	21.311	1.00	0.31		H
ATOM	2766	C	GLY	L	84	-1.983	-4.418	20.028	1.00	0.31		C
ATOM	2767	O	GLY	L	84	-2.010	-3.592	19.108	1.00	0.31		O
ATOM	2768	N	LYS	L	85	-1.002	-5.319	20.162	1.00	0.28		N
ATOM	2769	H	LYS	L	85	-1.102	-5.995	20.905	1.00	0.28		H
ATOM	2770	CA	LYS	L	85	0.188	-5.387	19.301	1.00	0.28		C
ATOM	2771	HA	LYS	L	85	0.202	-4.516	18.645	1.00	0.28		H
ATOM	2772	C	LYS	L	85	0.230	-6.584	18.356	1.00	0.28		C
ATOM	2773	CB	LYS	L	85	1.450	-5.327	20.172	1.00	0.28		C
ATOM	2774	HB2	LYS	L	85	2.325	-5.487	19.544	1.00	0.28		H
ATOM	2775	HB3	LYS	L	85	1.418	-6.112	20.930	1.00	0.28		H
ATOM	2776	O	LYS	L	85	0.926	-6.493	17.351	1.00	0.28		O
ATOM	2777	CG	LYS	L	85	1.547	-3.950	20.842	1.00	0.28		C
ATOM	2778	HG2	LYS	L	85	0.721	-3.828	21.545	1.00	0.28		H
ATOM	2779	HG3	LYS	L	85	1.475	-3.178	20.075	1.00	0.28		H
ATOM	2780	CD	LYS	L	85	2.864	-3.766	21.591	1.00	0.28		C
ATOM	2781	HD2	LYS	L	85	2.999	-4.573	22.312	1.00	0.28		H
ATOM	2782	HD3	LYS	L	85	3.684	-3.772	20.870	1.00	0.28		H
ATOM	2783	CE	LYS	L	85	2.801	-2.420	22.313	1.00	0.28		C
ATOM	2784	HE2	LYS	L	85	2.437	-1.677	21.601	1.00	0.28		H
ATOM	2785	HE3	LYS	L	85	2.068	-2.486	23.124	1.00	0.28		H

ATOM	2786	NZ	LYS	L	85	4.132	-2.017	22.821	1.00	0.28	N
ATOM	2787	HZ1	LYS	L	85	4.776	-1.933	22.031	1.00	0.28	H
ATOM	2788	HZ2	LYS	L	85	4.087	-1.120	23.282	1.00	0.28	H
ATOM	2789	HZ3	LYS	L	85	4.500	-2.709	23.454	1.00	0.28	H
ATOM	2790	N	ASP	L	86	-0.503	-7.663	18.621	1.00	0.27	N
ATOM	2791	H	ASP	L	86	-1.132	-7.644	19.409	1.00	0.27	H
ATOM	2792	CA	ASP	L	86	-0.348	-8.934	17.904	1.00	0.27	C
ATOM	2793	HA	ASP	L	86	0.462	-8.835	17.179	1.00	0.27	H
ATOM	2794	C	ASP	L	86	-1.608	-9.284	17.112	1.00	0.27	C
ATOM	2795	CB	ASP	L	86	0.079	-10.063	18.857	1.00	0.27	C
ATOM	2796	HB2	ASP	L	86	-0.667	-10.170	19.646	1.00	0.27	H
ATOM	2797	HB3	ASP	L	86	0.112	-10.998	18.294	1.00	0.27	H
ATOM	2798	O	ASP	L	86	-2.708	-9.361	17.666	1.00	0.27	O
ATOM	2799	CG	ASP	L	86	1.452	-9.817	19.497	1.00	0.27	C
ATOM	2800	OD1	ASP	L	86	2.359	-10.667	19.342	1.00	0.27	O
ATOM	2801	OD2	ASP	L	86	1.685	-8.762	20.136	1.00	0.27	O
ATOM	2802	N	TYR	L	87	-1.430	-9.495	15.806	1.00	0.20	N
ATOM	2803	H	TYR	L	87	-0.493	-9.398	15.425	1.00	0.20	H
ATOM	2804	CA	TYR	L	87	-2.505	-9.668	14.834	1.00	0.20	C
ATOM	2805	HA	TYR	L	87	-3.415	-9.926	15.362	1.00	0.20	H
ATOM	2806	C	TYR	L	87	-2.214	-10.807	13.866	1.00	0.20	C
ATOM	2807	CB	TYR	L	87	-2.748	-8.354	14.080	1.00	0.20	C
ATOM	2808	HB2	TYR	L	87	-3.555	-8.507	13.363	1.00	0.20	H
ATOM	2809	HB3	TYR	L	87	-1.851	-8.096	13.515	1.00	0.20	H
ATOM	2810	O	TYR	L	87	-1.059	-11.091	13.539	1.00	0.20	O
ATOM	2811	CG	TYR	L	87	-3.117	-7.194	14.983	1.00	0.20	C
ATOM	2812	CD1	TYR	L	87	-2.112	-6.361	15.510	1.00	0.20	C
ATOM	2813	HD1	TYR	L	87	-1.073	-6.543	15.265	1.00	0.20	H
ATOM	2814	CD2	TYR	L	87	-4.463	-6.985	15.336	1.00	0.20	C
ATOM	2815	HD2	TYR	L	87	-5.225	-7.655	14.965	1.00	0.20	H
ATOM	2816	CE1	TYR	L	87	-2.454	-5.312	16.382	1.00	0.20	C
ATOM	2817	HE1	TYR	L	87	-1.679	-4.684	16.793	1.00	0.20	H
ATOM	2818	CE2	TYR	L	87	-4.809	-5.927	16.198	1.00	0.20	C
ATOM	2819	HE2	TYR	L	87	-5.835	-5.777	16.490	1.00	0.20	H
ATOM	2820	OH	TYR	L	87	-4.138	-4.063	17.551	1.00	0.20	O
ATOM	2821	HH	TYR	L	87	-3.361	-3.783	18.070	1.00	0.20	H
ATOM	2822	CZ	TYR	L	87	-3.805	-5.084	16.719	1.00	0.20	C
ATOM	2823	N	THR	L	88	-3.269	-11.456	13.374	1.00	0.21	N
ATOM	2824	H	THR	L	88	-4.199	-11.169	13.671	1.00	0.21	H
ATOM	2825	CA	THR	L	88	-3.145	-12.558	12.415	1.00	0.21	C
ATOM	2826	HA	THR	L	88	-2.190	-12.427	11.914	1.00	0.21	H
ATOM	2827	C	THR	L	88	-4.201	-12.482	11.321	1.00	0.21	C
ATOM	2828	CB	THR	L	88	-3.072	-13.962	13.067	1.00	0.21	C

ATOM	2829	HB	THR L	88	-2.253	-14.480	12.573	1.00	0.21	H
ATOM	2830	O	THR L	88	-5.388	-12.284	11.603	1.00	0.21	O
ATOM	2831	CG2	THR L	88	-2.784	-14.001	14.569	1.00	0.21	C
ATOM	2832	HG21	THR L	88	-2.698	-15.037	14.895	1.00	0.21	H
ATOM	2833	HG22	THR L	88	-3.589	-13.518	15.124	1.00	0.21	H
ATOM	2834	HG23	THR L	88	-1.842	-13.494	14.780	1.00	0.21	H
ATOM	2835	OG1	THR L	88	-4.241	-14.733	12.880	1.00	0.21	O
ATOM	2836	HG1	THR L	88	-4.926	-14.352	13.456	1.00	0.21	H
ATOM	2837	N	LEU L	89	-3.767	-12.664	10.075	1.00	0.14	N
ATOM	2838	H	LEU L	89	-2.768	-12.791	9.938	1.00	0.14	H
ATOM	2839	CA	LEU L	89	-4.629	-13.085	8.979	1.00	0.14	C
ATOM	2840	HA	LEU L	89	-5.648	-12.741	9.160	1.00	0.14	H
ATOM	2841	C	LEU L	89	-4.609	-14.609	8.942	1.00	0.14	C
ATOM	2842	CB	LEU L	89	-4.118	-12.483	7.659	1.00	0.14	C
ATOM	2843	HB2	LEU L	89	-4.112	-11.403	7.753	1.00	0.14	H
ATOM	2844	HB3	LEU L	89	-3.089	-12.810	7.504	1.00	0.14	H
ATOM	2845	O	LEU L	89	-3.538	-15.211	8.901	1.00	0.14	O
ATOM	2846	CG	LEU L	89	-4.946	-12.848	6.413	1.00	0.14	C
ATOM	2847	HG	LEU L	89	-5.050	-13.930	6.334	1.00	0.14	H
ATOM	2848	CD1	LEU L	89	-6.336	-12.212	6.472	1.00	0.14	C
ATOM	2849	HD11	LEU L	89	-6.244	-11.136	6.623	1.00	0.14	H
ATOM	2850	HD12	LEU L	89	-6.872	-12.389	5.542	1.00	0.14	H
ATOM	2851	HD13	LEU L	89	-6.913	-12.646	7.287	1.00	0.14	H
ATOM	2852	CD2	LEU L	89	-4.241	-12.340	5.156	1.00	0.14	C
ATOM	2853	HD21	LEU L	89	-4.119	-11.259	5.204	1.00	0.14	H
ATOM	2854	HD22	LEU L	89	-3.259	-12.807	5.073	1.00	0.14	H
ATOM	2855	HD23	LEU L	89	-4.822	-12.603	4.272	1.00	0.14	H
ATOM	2856	N	SER L	90	-5.774	-15.240	8.941	1.00	0.21	N
ATOM	2857	H	SER L	90	-6.627	-14.687	8.972	1.00	0.21	H
ATOM	2858	CA	SER L	90	-5.893	-16.675	8.692	1.00	0.21	C
ATOM	2859	HA	SER L	90	-4.903	-17.118	8.624	1.00	0.21	H
ATOM	2860	C	SER L	90	-6.585	-16.923	7.358	1.00	0.21	C
ATOM	2861	CB	SER L	90	-6.612	-17.369	9.845	1.00	0.21	C
ATOM	2862	HB2	SER L	90	-6.722	-18.428	9.607	1.00	0.21	H
ATOM	2863	HB3	SER L	90	-7.601	-16.933	9.980	1.00	0.21	H
ATOM	2864	O	SER L	90	-7.526	-16.209	7.008	1.00	0.21	O
ATOM	2865	OG	SER L	90	-5.854	-17.230	11.041	1.00	0.21	O
ATOM	2866	HG	SER L	90	-5.798	-16.284	11.250	1.00	0.21	H
ATOM	2867	N	ILE L	91	-6.115	-17.941	6.640	1.00	0.19	N
ATOM	2868	H	ILE L	91	-5.339	-18.477	7.020	1.00	0.19	H
ATOM	2869	CA	ILE L	91	-6.769	-18.488	5.452	1.00	0.19	C
ATOM	2870	HA	ILE L	91	-7.677	-17.917	5.250	1.00	0.19	H
ATOM	2871	C	ILE L	91	-7.155	-19.921	5.786	1.00	0.19	C

ATOM	2872	CB	ILE	L	91	-5.887	-18.434	4.185	1.00	0.19	C
ATOM	2873	HB	ILE	L	91	-5.126	-19.214	4.252	1.00	0.19	H
ATOM	2874	O	ILE	L	91	-6.303	-20.741	6.120	1.00	0.19	O
ATOM	2875	CG1	ILE	L	91	-5.157	-17.081	4.041	1.00	0.19	C
ATOM	2876	HG12	ILE	L	91	-5.883	-16.270	4.067	1.00	0.19	H
ATOM	2877	HG13	ILE	L	91	-4.474	-16.953	4.882	1.00	0.19	H
ATOM	2878	CG2	ILE	L	91	-6.782	-18.736	2.966	1.00	0.19	C
ATOM	2879	HG21	ILE	L	91	-6.187	-18.813	2.058	1.00	0.19	H
ATOM	2880	HG22	ILE	L	91	-7.516	-17.942	2.830	1.00	0.19	H
ATOM	2881	HG23	ILE	L	91	-7.300	-19.688	3.087	1.00	0.19	H
ATOM	2882	CD1	ILE	L	91	-4.320	-16.976	2.764	1.00	0.19	C
ATOM	2883	HD11	ILE	L	91	-3.678	-16.096	2.820	1.00	0.19	H
ATOM	2884	HD12	ILE	L	91	-3.706	-17.868	2.662	1.00	0.19	H
ATOM	2885	HD13	ILE	L	91	-4.964	-16.887	1.890	1.00	0.19	H
ATOM	2886	N	THR	L	92	-8.444	-20.219	5.745	1.00	0.38	N
ATOM	2887	H	THR	L	92	-9.083	-19.494	5.437	1.00	0.38	H
ATOM	2888	CA	THR	L	92	-8.941	-21.597	5.819	1.00	0.38	C
ATOM	2889	HA	THR	L	92	-8.238	-22.210	6.380	1.00	0.38	H
ATOM	2890	C	THR	L	92	-9.034	-22.179	4.407	1.00	0.38	C
ATOM	2891	CB	THR	L	92	-10.290	-21.654	6.550	1.00	0.38	C
ATOM	2892	HB	THR	L	92	-10.646	-22.685	6.543	1.00	0.38	H
ATOM	2893	O	THR	L	92	-9.365	-21.458	3.472	1.00	0.38	O
ATOM	2894	CG2	THR	L	92	-10.184	-21.188	8.003	1.00	0.38	C
ATOM	2895	HG21	THR	L	92	-9.447	-21.789	8.531	1.00	0.38	H
ATOM	2896	HG22	THR	L	92	-9.894	-20.138	8.047	1.00	0.38	H
ATOM	2897	HG23	THR	L	92	-11.153	-21.308	8.488	1.00	0.38	H
ATOM	2898	OG1	THR	L	92	-11.257	-20.838	5.935	1.00	0.38	O
ATOM	2899	HG1	THR	L	92	-10.938	-19.928	5.945	1.00	0.38	H
ATOM	2900	N	SER	L	93	-8.743	-23.473	4.232	1.00	0.43	N
ATOM	2901	H	SER	L	93	-8.379	-24.005	5.005	1.00	0.43	H
ATOM	2902	CA	SER	L	93	-8.864	-24.172	2.942	1.00	0.43	C
ATOM	2903	HA	SER	L	93	-8.363	-25.130	3.052	1.00	0.43	H
ATOM	2904	C	SER	L	93	-8.167	-23.444	1.779	1.00	0.43	C
ATOM	2905	CB	SER	L	93	-10.337	-24.481	2.644	1.00	0.43	C
ATOM	2906	HB2	SER	L	93	-10.893	-23.549	2.533	1.00	0.43	H
ATOM	2907	HB3	SER	L	93	-10.762	-25.050	3.472	1.00	0.43	H
ATOM	2908	O	SER	L	93	-8.805	-23.119	0.776	1.00	0.43	O
ATOM	2909	OG	SER	L	93	-10.453	-25.237	1.458	1.00	0.43	O
ATOM	2910	HG	SER	L	93	-10.138	-24.662	0.743	1.00	0.43	H
ATOM	2911	N	LEU	L	94	-6.865	-23.177	1.931	1.00	0.32	N
ATOM	2912	H	LEU	L	94	-6.411	-23.479	2.787	1.00	0.32	H
ATOM	2913	CA	LEU	L	94	-6.051	-22.419	0.975	1.00	0.32	C
ATOM	2914	HA	LEU	L	94	-6.317	-21.364	1.052	1.00	0.32	H

ATOM	2915	C	LEU	L	94	-6.276	-22.873	-0.477	1.00	0.32	C
ATOM	2916	CB	LEU	L	94	-4.574	-22.603	1.372	1.00	0.32	C
ATOM	2917	HB2	LEU	L	94	-4.443	-22.316	2.414	1.00	0.32	H
ATOM	2918	HB3	LEU	L	94	-4.336	-23.666	1.294	1.00	0.32	H
ATOM	2919	O	LEU	L	94	-6.048	-24.039	-0.805	1.00	0.32	O
ATOM	2920	CG	LEU	L	94	-3.583	-21.810	0.500	1.00	0.32	C
ATOM	2921	HG	LEU	L	94	-3.878	-21.841	-0.547	1.00	0.32	H
ATOM	2922	CD1	LEU	L	94	-3.519	-20.354	0.959	1.00	0.32	C
ATOM	2923	HD11	LEU	L	94	-4.508	-19.910	0.888	1.00	0.32	H
ATOM	2924	HD12	LEU	L	94	-2.831	-19.800	0.320	1.00	0.32	H
ATOM	2925	HD13	LEU	L	94	-3.183	-20.297	1.990	1.00	0.32	H
ATOM	2926	CD2	LEU	L	94	-2.191	-22.417	0.609	1.00	0.32	C
ATOM	2927	HD21	LEU	L	94	-1.883	-22.453	1.650	1.00	0.32	H
ATOM	2928	HD22	LEU	L	94	-1.482	-21.827	0.028	1.00	0.32	H
ATOM	2929	HD23	LEU	L	94	-2.199	-23.432	0.211	1.00	0.32	H
ATOM	2930	N	GLN	L	95	-6.680	-21.953	-1.352	1.00	0.37	N
ATOM	2931	H	GLN	L	95	-6.836	-21.000	-1.026	1.00	0.37	H
ATOM	2932	CA	GLN	L	95	-6.859	-22.234	-2.777	1.00	0.37	C
ATOM	2933	HA	GLN	L	95	-6.894	-23.314	-2.924	1.00	0.37	H
ATOM	2934	C	GLN	L	95	-5.685	-21.720	-3.620	1.00	0.37	C
ATOM	2935	CB	GLN	L	95	-8.202	-21.684	-3.267	1.00	0.37	C
ATOM	2936	HB2	GLN	L	95	-8.210	-20.597	-3.183	1.00	0.37	H
ATOM	2937	HB3	GLN	L	95	-8.297	-21.969	-4.314	1.00	0.37	H
ATOM	2938	O	GLN	L	95	-4.889	-20.889	-3.187	1.00	0.37	O
ATOM	2939	CG	GLN	L	95	-9.392	-22.280	-2.494	1.00	0.37	C
ATOM	2940	HG2	GLN	L	95	-9.401	-21.870	-1.485	1.00	0.37	H
ATOM	2941	HG3	GLN	L	95	-9.256	-23.359	-2.424	1.00	0.37	H
ATOM	2942	CD	GLN	L	95	-10.760	-22.024	-3.127	1.00	0.37	C
ATOM	2943	NE2	GLN	L	95	-10.872	-21.646	-4.382	1.00	0.37	N
ATOM	2944	HE21	GLN	L	95	-11.795	-21.487	-4.733	1.00	0.37	H
ATOM	2945	HE22	GLN	L	95	-10.063	-21.304	-4.897	1.00	0.37	H
ATOM	2946	OE1	GLN	L	95	-11.782	-22.067	-2.459	1.00	0.37	O
ATOM	2947	N	THR	L	96	-5.588	-22.181	-4.867	1.00	0.34	N
ATOM	2948	H	THR	L	96	-6.297	-22.815	-5.209	1.00	0.34	H
ATOM	2949	CA	THR	L	96	-4.528	-21.786	-5.812	1.00	0.34	C
ATOM	2950	HA	THR	L	96	-3.560	-22.109	-5.427	1.00	0.34	H
ATOM	2951	C	THR	L	96	-4.448	-20.277	-6.026	1.00	0.34	C
ATOM	2952	CB	THR	L	96	-4.767	-22.436	-7.184	1.00	0.34	C
ATOM	2953	HB	THR	L	96	-4.194	-21.899	-7.941	1.00	0.34	H
ATOM	2954	O	THR	L	96	-3.365	-19.730	-6.214	1.00	0.34	O
ATOM	2955	CG2	THR	L	96	-4.340	-23.900	-7.216	1.00	0.34	C
ATOM	2956	HG21	THR	L	96	-4.928	-24.475	-6.501	1.00	0.34	H
ATOM	2957	HG22	THR	L	96	-4.507	-24.303	-8.215	1.00	0.34	H

ATOM	2958	HG23	THR	L	96	-3.281	-23.981	-6.975	1.00	0.34		H
ATOM	2959	OG1	THR	L	96	-6.138	-22.414	-7.535	1.00	0.34		O
ATOM	2960	HG1	THR	L	96	-6.503	-21.529	-7.419	1.00	0.34		H
ATOM	2961	N	GLU	L	97	-5.581	-19.575	-5.999	1.00	0.19		N
ATOM	2962	H	GLU	L	97	-6.470	-20.052	-5.839	1.00	0.19		H
ATOM	2963	CA	GLU	L	97	-5.618	-18.126	-6.147	1.00	0.19		C
ATOM	2964	HA	GLU	L	97	-4.833	-17.867	-6.856	1.00	0.19		H
ATOM	2965	C	GLU	L	97	-5.272	-17.357	-4.857	1.00	0.19		C
ATOM	2966	CB	GLU	L	97	-6.944	-17.680	-6.794	1.00	0.19		C
ATOM	2967	HB2	GLU	L	97	-6.791	-16.661	-7.152	1.00	0.19		H
ATOM	2968	HB3	GLU	L	97	-7.144	-18.291	-7.676	1.00	0.19		H
ATOM	2969	O	GLU	L	97	-5.185	-16.131	-4.913	1.00	0.19		O
ATOM	2970	CG	GLU	L	97	-8.192	-17.649	-5.895	1.00	0.19		C
ATOM	2971	HG2	GLU	L	97	-7.945	-17.171	-4.946	1.00	0.19		H
ATOM	2972	HG3	GLU	L	97	-8.924	-17.006	-6.388	1.00	0.19		H
ATOM	2973	CD	GLU	L	97	-8.864	-19.005	-5.630	1.00	0.19		C
ATOM	2974	OE1	GLU	L	97	-8.297	-20.068	-5.971	1.00	0.19		O
ATOM	2975	OE2	GLU	L	97	-9.956	-18.975	-5.014	1.00	0.19		O
ATOM	2976	N	ASP	L	98	-5.026	-18.029	-3.730	1.00	0.22		N
ATOM	2977	H	ASP	L	98	-5.123	-19.041	-3.730	1.00	0.22		H
ATOM	2978	CA	ASP	L	98	-4.493	-17.420	-2.501	1.00	0.22		C
ATOM	2979	HA	ASP	L	98	-4.860	-16.395	-2.432	1.00	0.22		H
ATOM	2980	C	ASP	L	98	-2.957	-17.352	-2.473	1.00	0.22		C
ATOM	2981	CB	ASP	L	98	-5.005	-18.176	-1.270	1.00	0.22		C
ATOM	2982	HB2	ASP	L	98	-4.651	-19.203	-1.319	1.00	0.22		H
ATOM	2983	HB3	ASP	L	98	-4.591	-17.715	-0.373	1.00	0.22		H
ATOM	2984	O	ASP	L	98	-2.387	-16.718	-1.583	1.00	0.22		O
ATOM	2985	CG	ASP	L	98	-6.522	-18.168	-1.145	1.00	0.22		C
ATOM	2986	OD1	ASP	L	98	-7.157	-17.178	-1.572	1.00	0.22		O
ATOM	2987	OD2	ASP	L	98	-7.089	-19.149	-0.618	1.00	0.22		O
ATOM	2988	N	VAL	L	99	-2.277	-17.961	-3.448	1.00	0.32		N
ATOM	2989	H	VAL	L	99	-2.803	-18.502	-4.122	1.00	0.32		H
ATOM	2990	CA	VAL	L	99	-0.827	-17.827	-3.660	1.00	0.32		C
ATOM	2991	HA	VAL	L	99	-0.301	-18.107	-2.746	1.00	0.32		H
ATOM	2992	C	VAL	L	99	-0.499	-16.365	-3.985	1.00	0.32		C
ATOM	2993	CB	VAL	L	99	-0.369	-18.780	-4.781	1.00	0.32		C
ATOM	2994	HB	VAL	L	99	-0.969	-18.583	-5.669	1.00	0.32		H
ATOM	2995	O	VAL	L	99	-0.807	-15.865	-5.074	1.00	0.32		O
ATOM	2996	CG1	VAL	L	99	1.105	-18.615	-5.175	1.00	0.32		C
ATOM	2997	HG11	VAL	L	99	1.348	-19.313	-5.976	1.00	0.32		H
ATOM	2998	HG12	VAL	L	99	1.749	-18.825	-4.323	1.00	0.32		H
ATOM	2999	HG13	VAL	L	99	1.296	-17.605	-5.533	1.00	0.32		H
ATOM	3000	CG2	VAL	L	99	-0.579	-20.241	-4.371	1.00	0.32		C

ATOM	3001	HG21	VAL	L	99	0.047	-20.484	-3.511	1.00	0.32	H
ATOM	3002	HG22	VAL	L	99	-0.321	-20.890	-5.206	1.00	0.32	H
ATOM	3003	HG23	VAL	L	99	-1.622	-20.423	-4.113	1.00	0.32	H
ATOM	3004	N	ALA	L	100	0.064	-15.654	-3.007	1.00	0.25	N
ATOM	3005	H	ALA	L	100	0.274	-16.134	-2.142	1.00	0.25	H
ATOM	3006	CA	ALA	L	100	0.286	-14.207	-3.029	1.00	0.25	C
ATOM	3007	HA	ALA	L	100	0.766	-13.924	-3.967	1.00	0.25	H
ATOM	3008	C	ALA	L	100	1.188	-13.760	-1.863	1.00	0.25	C
ATOM	3009	CB	ALA	L	100	-1.079	-13.508	-2.926	1.00	0.25	C
ATOM	3010	HB1	ALA	L	100	-0.952	-12.427	-2.891	1.00	0.25	H
ATOM	3011	HB2	ALA	L	100	-1.584	-13.833	-2.017	1.00	0.25	H
ATOM	3012	HB3	ALA	L	100	-1.702	-13.760	-3.783	1.00	0.25	H
ATOM	3013	O	ALA	L	100	1.386	-14.503	-0.900	1.00	0.25	O
ATOM	3014	N	THR	L	101	1.695	-12.526	-1.924	1.00	0.22	N
ATOM	3015	H	THR	L	101	1.471	-11.953	-2.731	1.00	0.22	H
ATOM	3016	CA	THR	L	101	2.337	-11.847	-0.788	1.00	0.22	C
ATOM	3017	HA	THR	L	101	2.754	-12.582	-0.113	1.00	0.22	H
ATOM	3018	C	THR	L	101	1.306	-11.046	-0.008	1.00	0.22	C
ATOM	3019	CB	THR	L	101	3.488	-10.935	-1.232	1.00	0.22	C
ATOM	3020	HB	THR	L	101	3.098	-10.124	-1.849	1.00	0.22	H
ATOM	3021	O	THR	L	101	0.637	-10.178	-0.569	1.00	0.22	O
ATOM	3022	CG2	THR	L	101	4.253	-10.349	-0.043	1.00	0.22	C
ATOM	3023	HG21	THR	L	101	4.652	-11.152	0.577	1.00	0.22	H
ATOM	3024	HG22	THR	L	101	5.076	-9.731	-0.403	1.00	0.22	H
ATOM	3025	HG23	THR	L	101	3.597	-9.721	0.559	1.00	0.22	H
ATOM	3026	OG1	THR	L	101	4.432	-11.669	-1.977	1.00	0.22	O
ATOM	3027	HG1	THR	L	101	5.162	-11.071	-2.161	1.00	0.22	H
ATOM	3028	N	TYR	L	102	1.187	-11.313	1.289	1.00	0.17	N
ATOM	3029	H	TYR	L	102	1.740	-12.066	1.685	1.00	0.17	H
ATOM	3030	CA	TYR	L	102	0.266	-10.610	2.175	1.00	0.17	C
ATOM	3031	HA	TYR	L	102	-0.461	-10.088	1.564	1.00	0.17	H
ATOM	3032	C	TYR	L	102	1.004	-9.590	3.030	1.00	0.17	C
ATOM	3033	CB	TYR	L	102	-0.496	-11.608	3.043	1.00	0.17	C
ATOM	3034	HB2	TYR	L	102	0.221	-12.191	3.616	1.00	0.17	H
ATOM	3035	HB3	TYR	L	102	-1.121	-11.061	3.750	1.00	0.17	H
ATOM	3036	O	TYR	L	102	1.975	-9.942	3.697	1.00	0.17	O
ATOM	3037	CG	TYR	L	102	-1.371	-12.532	2.224	1.00	0.17	C
ATOM	3038	CD1	TYR	L	102	-0.823	-13.688	1.632	1.00	0.17	C
ATOM	3039	HD1	TYR	L	102	0.217	-13.941	1.792	1.00	0.17	H
ATOM	3040	CD2	TYR	L	102	-2.715	-12.189	1.993	1.00	0.17	C
ATOM	3041	HD2	TYR	L	102	-3.127	-11.288	2.429	1.00	0.17	H
ATOM	3042	CE1	TYR	L	102	-1.616	-14.496	0.798	1.00	0.17	C
ATOM	3043	HE1	TYR	L	102	-1.188	-15.362	0.315	1.00	0.17	H

ATOM	3044	CE2	TYR	L	102	-3.514	-13.009	1.179	1.00	0.17	C
ATOM	3045	HE2	TYR	L	102	-4.545	-12.763	0.994	1.00	0.17	H
ATOM	3046	OH	TYR	L	102	-3.731	-14.898	-0.258	1.00	0.17	O
ATOM	3047	HH	TYR	L	102	-3.211	-15.634	-0.639	1.00	0.17	H
ATOM	3048	CZ	TYR	L	102	-2.965	-14.156	0.576	1.00	0.17	C
ATOM	3049	N	TYR	L	103	0.528	-8.349	3.039	1.00	0.16	N
ATOM	3050	H	TYR	L	103	-0.323	-8.170	2.518	1.00	0.16	H
ATOM	3051	CA	TYR	L	103	1.104	-7.243	3.805	1.00	0.16	C
ATOM	3052	HA	TYR	L	103	2.028	-7.557	4.287	1.00	0.16	H
ATOM	3053	C	TYR	L	103	0.126	-6.784	4.882	1.00	0.16	C
ATOM	3054	CB	TYR	L	103	1.441	-6.075	2.867	1.00	0.16	C
ATOM	3055	HB2	TYR	L	103	1.662	-5.197	3.478	1.00	0.16	H
ATOM	3056	HB3	TYR	L	103	0.568	-5.829	2.263	1.00	0.16	H
ATOM	3057	O	TYR	L	103	-1.022	-6.481	4.566	1.00	0.16	O
ATOM	3058	CG	TYR	L	103	2.627	-6.314	1.954	1.00	0.16	C
ATOM	3059	CD1	TYR	L	103	3.917	-6.057	2.445	1.00	0.16	C
ATOM	3060	HD1	TYR	L	103	4.042	-5.717	3.462	1.00	0.16	H
ATOM	3061	CD2	TYR	L	103	2.456	-6.744	0.622	1.00	0.16	C
ATOM	3062	HD2	TYR	L	103	1.466	-6.930	0.231	1.00	0.16	H
ATOM	3063	CE1	TYR	L	103	5.044	-6.235	1.624	1.00	0.16	C
ATOM	3064	HE1	TYR	L	103	6.032	-6.041	2.016	1.00	0.16	H
ATOM	3065	CE2	TYR	L	103	3.583	-6.915	-0.209	1.00	0.16	C
ATOM	3066	HE2	TYR	L	103	3.466	-7.229	-1.235	1.00	0.16	H
ATOM	3067	OH	TYR	L	103	5.972	-6.875	-0.487	1.00	0.16	O
ATOM	3068	HH	TYR	L	103	6.770	-6.949	0.044	1.00	0.16	H
ATOM	3069	CZ	TYR	L	103	4.880	-6.671	0.294	1.00	0.16	C
ATOM	3070	N	CYS	L	104	0.564	-6.680	6.135	1.00	0.12	N
ATOM	3071	H	CYS	L	104	1.527	-6.931	6.336	1.00	0.12	H
ATOM	3072	CA	CYS	L	104	-0.161	-5.875	7.116	1.00	0.12	C
ATOM	3073	HA	CYS	L	104	-1.225	-5.974	6.920	1.00	0.12	H
ATOM	3074	C	CYS	L	104	0.213	-4.391	6.981	1.00	0.12	C
ATOM	3075	CB	CYS	L	104	0.075	-6.394	8.534	1.00	0.12	C
ATOM	3076	HB2	CYS	L	104	-0.263	-7.427	8.590	1.00	0.12	H
ATOM	3077	HB3	CYS	L	104	-0.549	-5.810	9.210	1.00	0.12	H
ATOM	3078	O	CYS	L	104	1.265	-4.047	6.443	1.00	0.12	O
ATOM	3079	SG	CYS	L	104	1.781	-6.308	9.120	1.00	0.12	S
ATOM	3080	N	GLN	L	105	-0.633	-3.510	7.505	1.00	0.11	N
ATOM	3081	H	GLN	L	105	-1.533	-3.850	7.830	1.00	0.11	H
ATOM	3082	CA	GLN	L	105	-0.370	-2.075	7.628	1.00	0.11	C
ATOM	3083	HA	GLN	L	105	0.699	-1.907	7.741	1.00	0.11	H
ATOM	3084	C	GLN	L	105	-1.086	-1.539	8.861	1.00	0.11	C
ATOM	3085	CB	GLN	L	105	-0.872	-1.361	6.366	1.00	0.11	C
ATOM	3086	HB2	GLN	L	105	-0.425	-1.824	5.487	1.00	0.11	H

ATOM	3087	HB3	GLN	L	105	-1.946	-1.538	6.333	1.00	0.11	H
ATOM	3088	O	GLN	L	105	-2.246	-1.883	9.084	1.00	0.11	O
ATOM	3089	CG	GLN	L	105	-0.621	0.160	6.306	1.00	0.11	C
ATOM	3090	HG2	GLN	L	105	0.146	0.367	5.559	1.00	0.11	H
ATOM	3091	HG3	GLN	L	105	-0.235	0.521	7.255	1.00	0.11	H
ATOM	3092	CD	GLN	L	105	-1.878	0.953	5.938	1.00	0.11	C
ATOM	3093	NE2	GLN	L	105	-2.156	2.049	6.605	1.00	0.11	N
ATOM	3094	HE21	GLN	L	105	-1.606	2.302	7.418	1.00	0.11	H
ATOM	3095	HE22	GLN	L	105	-2.969	2.588	6.321	1.00	0.11	H
ATOM	3096	OE1	GLN	L	105	-2.642	0.585	5.058	1.00	0.11	O
ATOM	3097	N	GLN	L	106	-0.433	-0.686	9.648	1.00	0.15	N
ATOM	3098	H	GLN	L	106	0.507	-0.402	9.385	1.00	0.15	H
ATOM	3099	CA	GLN	L	106	-1.135	0.091	10.671	1.00	0.15	C
ATOM	3100	HA	GLN	L	106	-2.007	-0.476	10.991	1.00	0.15	H
ATOM	3101	C	GLN	L	106	-1.642	1.419	10.105	1.00	0.15	C
ATOM	3102	CB	GLN	L	106	-0.279	0.273	11.926	1.00	0.15	C
ATOM	3103	HB2	GLN	L	106	-0.892	0.701	12.721	1.00	0.15	H
ATOM	3104	HB3	GLN	L	106	0.015	-0.718	12.260	1.00	0.15	H
ATOM	3105	O	GLN	L	106	-1.014	2.033	9.239	1.00	0.15	O
ATOM	3106	CG	GLN	L	106	0.984	1.127	11.727	1.00	0.15	C
ATOM	3107	HG2	GLN	L	106	1.689	0.843	12.501	1.00	0.15	H
ATOM	3108	HG3	GLN	L	106	1.446	0.894	10.769	1.00	0.15	H
ATOM	3109	CD	GLN	L	106	0.769	2.637	11.831	1.00	0.15	C
ATOM	3110	NE2	GLN	L	106	1.770	3.417	11.496	1.00	0.15	N
ATOM	3111	HE21	GLN	L	106	1.633	4.423	11.584	1.00	0.15	H
ATOM	3112	HE22	GLN	L	106	2.657	3.025	11.206	1.00	0.15	H
ATOM	3113	OE1	GLN	L	106	-0.281	3.134	12.224	1.00	0.15	O
ATOM	3114	N	PHE	L	107	-2.774	1.867	10.637	1.00	0.19	N
ATOM	3115	H	PHE	L	107	-3.256	1.264	11.296	1.00	0.19	H
ATOM	3116	CA	PHE	L	107	-3.362	3.172	10.354	1.00	0.19	C
ATOM	3117	HA	PHE	L	107	-2.604	3.766	9.850	1.00	0.19	H
ATOM	3118	C	PHE	L	107	-3.709	3.966	11.625	1.00	0.19	C
ATOM	3119	CB	PHE	L	107	-4.509	3.017	9.356	1.00	0.19	C
ATOM	3120	HB2	PHE	L	107	-4.102	2.567	8.453	1.00	0.19	H
ATOM	3121	HB3	PHE	L	107	-4.835	4.018	9.101	1.00	0.19	H
ATOM	3122	O	PHE	L	107	-4.535	4.881	11.601	1.00	0.19	O
ATOM	3123	CG	PHE	L	107	-5.725	2.207	9.774	1.00	0.19	C
ATOM	3124	CD1	PHE	L	107	-5.820	0.843	9.436	1.00	0.19	C
ATOM	3125	HD1	PHE	L	107	-4.998	0.355	8.927	1.00	0.19	H
ATOM	3126	CD2	PHE	L	107	-6.817	2.843	10.394	1.00	0.19	C
ATOM	3127	HD2	PHE	L	107	-6.767	3.900	10.618	1.00	0.19	H
ATOM	3128	CE1	PHE	L	107	-6.994	0.123	9.724	1.00	0.19	C
ATOM	3129	HE1	PHE	L	107	-7.073	-0.912	9.430	1.00	0.19	H

ATOM	3130	CE2	PHE	L	107	-7.987	2.122	10.688	1.00	0.19	C
ATOM	3131	HE2	PHE	L	107	-8.831	2.630	11.132	1.00	0.19	H
ATOM	3132	CZ	PHE	L	107	-8.076	0.758	10.359	1.00	0.19	C
ATOM	3133	HZ	PHE	L	107	-8.986	0.212	10.562	1.00	0.19	H
ATOM	3134	N	TRP	L	108	-3.063	3.629	12.746	1.00	0.23	N
ATOM	3135	H	TRP	L	108	-2.293	2.976	12.654	1.00	0.23	H
ATOM	3136	CA	TRP	L	108	-3.217	4.314	14.031	1.00	0.23	C
ATOM	3137	HA	TRP	L	108	-4.276	4.487	14.213	1.00	0.23	H
ATOM	3138	C	TRP	L	108	-2.536	5.684	14.051	1.00	0.23	C
ATOM	3139	CB	TRP	L	108	-2.664	3.418	15.147	1.00	0.23	C
ATOM	3140	HB2	TRP	L	108	-1.639	3.147	14.889	1.00	0.23	H
ATOM	3141	HB3	TRP	L	108	-3.234	2.496	15.185	1.00	0.23	H
ATOM	3142	O	TRP	L	108	-3.135	6.655	14.510	1.00	0.23	O
ATOM	3143	CG	TRP	L	108	-2.659	3.991	16.532	1.00	0.23	C
ATOM	3144	CD1	TRP	L	108	-1.605	3.936	17.375	1.00	0.23	C
ATOM	3145	HD1	TRP	L	108	-0.646	3.484	17.149	1.00	0.23	H
ATOM	3146	CD2	TRP	L	108	-3.748	4.599	17.304	1.00	0.23	C
ATOM	3147	CE2	TRP	L	108	-3.266	4.873	18.621	1.00	0.23	C
ATOM	3148	CE3	TRP	L	108	-5.094	4.943	17.040	1.00	0.23	C
ATOM	3149	HE3	TRP	L	108	-5.483	4.794	16.049	1.00	0.23	H
ATOM	3150	NE1	TRP	L	108	-1.956	4.452	18.602	1.00	0.23	N
ATOM	3151	HE1	TRP	L	108	-1.339	4.404	19.401	1.00	0.23	H
ATOM	3152	CH2	TRP	L	108	-5.414	5.741	19.328	1.00	0.23	C
ATOM	3153	HH2	TRP	L	108	-6.046	6.174	20.090	1.00	0.23	H
ATOM	3154	CZ2	TRP	L	108	-4.078	5.424	19.623	1.00	0.23	C
ATOM	3155	HZ2	TRP	L	108	-3.677	5.597	20.611	1.00	0.23	H
ATOM	3156	CZ3	TRP	L	108	-5.917	5.507	18.036	1.00	0.23	C
ATOM	3157	HZ3	TRP	L	108	-6.935	5.779	17.802	1.00	0.23	H
ATOM	3158	N	SER	L	109	-1.315	5.789	13.519	1.00	0.20	N
ATOM	3159	H	SER	L	109	-0.856	4.959	13.153	1.00	0.20	H
ATOM	3160	CA	SER	L	109	-0.566	7.049	13.490	1.00	0.20	C
ATOM	3161	HA	SER	L	109	-1.283	7.868	13.422	1.00	0.20	H
ATOM	3162	C	SER	L	109	0.352	7.152	12.273	1.00	0.20	C
ATOM	3163	CB	SER	L	109	0.223	7.245	14.792	1.00	0.20	C
ATOM	3164	HB2	SER	L	109	-0.449	7.115	15.642	1.00	0.20	H
ATOM	3165	HB3	SER	L	109	0.625	8.259	14.817	1.00	0.20	H
ATOM	3166	O	SER	L	109	0.871	6.159	11.763	1.00	0.20	O
ATOM	3167	OG	SER	L	109	1.293	6.328	14.894	1.00	0.20	O
ATOM	3168	HG	SER	L	109	1.678	6.380	15.775	1.00	0.20	H
ATOM	3169	N	ALA	L	114	0.538	8.379	11.787	1.00	0.33	N
ATOM	3170	H	ALA	L	114	0.128	9.159	12.270	1.00	0.33	H
ATOM	3171	CA	ALA	L	114	1.487	8.661	10.719	1.00	0.33	C
ATOM	3172	HA	ALA	L	114	1.354	7.894	9.961	1.00	0.33	H

ATOM	3173	C	ALA L 114	2.944	8.635	11.247	1.00	0.33		C
ATOM	3174	CB	ALA L 114	1.129	10.009	10.082	1.00	0.33		C
ATOM	3175	HB1	ALA L 114	0.106	9.978	9.705	1.00	0.33		H
ATOM	3176	HB2	ALA L 114	1.224	10.805	10.821	1.00	0.33		H
ATOM	3177	HB3	ALA L 114	1.806	10.214	9.251	1.00	0.33		H
ATOM	3178	O	ALA L 114	3.176	9.085	12.371	1.00	0.33		O
ATOM	3179	N	PRO L 115	3.931	8.199	10.439	1.00	0.16		N
ATOM	3180	CA	PRO L 115	3.774	7.651	9.092	1.00	0.16		C
ATOM	3181	HA	PRO L 115	3.170	8.324	8.487	1.00	0.16		H
ATOM	3182	C	PRO L 115	3.120	6.264	9.094	1.00	0.16		C
ATOM	3183	CB	PRO L 115	5.187	7.604	8.513	1.00	0.16		C
ATOM	3184	HB2	PRO L 115	5.419	8.567	8.060	1.00	0.16		H
ATOM	3185	HB3	PRO L 115	5.313	6.799	7.787	1.00	0.16		H
ATOM	3186	O	PRO L 115	3.431	5.417	9.928	1.00	0.16		O
ATOM	3187	CG	PRO L 115	6.070	7.404	9.743	1.00	0.16		C
ATOM	3188	HG2	PRO L 115	6.098	6.347	10.013	1.00	0.16		H
ATOM	3189	HG3	PRO L 115	7.076	7.788	9.581	1.00	0.16		H
ATOM	3190	CD	PRO L 115	5.336	8.196	10.824	1.00	0.16		C
ATOM	3191	HD2	PRO L 115	5.707	9.221	10.847	1.00	0.16		H
ATOM	3192	HD3	PRO L 115	5.478	7.728	11.799	1.00	0.16		H
ATOM	3193	N	TYR L 116	2.202	6.041	8.151	1.00	0.22		N
ATOM	3194	H	TYR L 116	2.020	6.755	7.463	1.00	0.22		H
ATOM	3195	CA	TYR L 116	1.486	4.772	8.020	1.00	0.22		C
ATOM	3196	HA	TYR L 116	1.203	4.423	9.010	1.00	0.22		H
ATOM	3197	C	TYR L 116	2.392	3.684	7.437	1.00	0.22		C
ATOM	3198	CB	TYR L 116	0.207	4.970	7.193	1.00	0.22		C
ATOM	3199	HB2	TYR L 116	0.475	5.447	6.249	1.00	0.22		H
ATOM	3200	HB3	TYR L 116	-0.191	3.984	6.955	1.00	0.22		H
ATOM	3201	O	TYR L 116	2.684	3.649	6.244	1.00	0.22		O
ATOM	3202	CG	TYR L 116	-0.922	5.761	7.852	1.00	0.22		C
ATOM	3203	CD1	TYR L 116	-1.108	5.754	9.252	1.00	0.22		C
ATOM	3204	HD1	TYR L 116	-0.434	5.214	9.900	1.00	0.22		H
ATOM	3205	CD2	TYR L 116	-1.862	6.434	7.043	1.00	0.22		C
ATOM	3206	HD2	TYR L 116	-1.741	6.433	5.972	1.00	0.22		H
ATOM	3207	CE1	TYR L 116	-2.220	6.387	9.833	1.00	0.22		C
ATOM	3208	HE1	TYR L 116	-2.363	6.359	10.902	1.00	0.22		H
ATOM	3209	CE2	TYR L 116	-2.991	7.052	7.620	1.00	0.22		C
ATOM	3210	HE2	TYR L 116	-3.741	7.524	7.008	1.00	0.22		H
ATOM	3211	OH	TYR L 116	-4.317	7.504	9.570	1.00	0.22		O
ATOM	3212	HH	TYR L 116	-4.551	7.017	10.370	1.00	0.22		H
ATOM	3213	CZ	TYR L 116	-3.184	7.005	9.016	1.00	0.22		C
ATOM	3214	N	THR L 117	2.843	2.795	8.311	1.00	0.12		N
ATOM	3215	H	THR L 117	2.575	2.905	9.278	1.00	0.12		H

ATOM	3216	CA	THR L 117	3.834	1.757	8.033	1.00	0.12	C
ATOM	3217	HA	THR L 117	4.431	2.069	7.175	1.00	0.12	H
ATOM	3218	C	THR L 117	3.196	0.415	7.683	1.00	0.12	C
ATOM	3219	CB	THR L 117	4.783	1.611	9.230	1.00	0.12	C
ATOM	3220	HB	THR L 117	5.302	0.654	9.168	1.00	0.12	H
ATOM	3221	O	THR L 117	2.271	-0.063	8.347	1.00	0.12	O
ATOM	3222	CG2	THR L 117	5.825	2.730	9.248	1.00	0.12	C
ATOM	3223	HG21	THR L 117	5.337	3.700	9.341	1.00	0.12	H
ATOM	3224	HG22	THR L 117	6.506	2.590	10.086	1.00	0.12	H
ATOM	3225	HG23	THR L 117	6.402	2.709	8.324	1.00	0.12	H
ATOM	3226	OG1	THR L 117	4.069	1.681	10.449	1.00	0.12	O
ATOM	3227	HG1	THR L 117	4.737	1.535	11.150	1.00	0.12	H
ATOM	3228	N	PHE L 118	3.727	-0.206	6.630	1.00	0.15	N
ATOM	3229	H	PHE L 118	4.481	0.246	6.136	1.00	0.15	H
ATOM	3230	CA	PHE L 118	3.449	-1.587	6.248	1.00	0.15	C
ATOM	3231	HA	PHE L 118	2.428	-1.840	6.521	1.00	0.15	H
ATOM	3232	C	PHE L 118	4.392	-2.552	6.973	1.00	0.15	C
ATOM	3233	CB	PHE L 118	3.582	-1.740	4.728	1.00	0.15	C
ATOM	3234	HB2	PHE L 118	3.461	-2.793	4.468	1.00	0.15	H
ATOM	3235	HB3	PHE L 118	4.591	-1.455	4.430	1.00	0.15	H
ATOM	3236	O	PHE L 118	5.435	-2.150	7.497	1.00	0.15	O
ATOM	3237	CG	PHE L 118	2.580	-0.934	3.920	1.00	0.15	C
ATOM	3238	CD1	PHE L 118	2.827	0.422	3.626	1.00	0.15	C
ATOM	3239	HD1	PHE L 118	3.725	0.900	3.988	1.00	0.15	H
ATOM	3240	CD2	PHE L 118	1.416	-1.553	3.425	1.00	0.15	C
ATOM	3241	HD2	PHE L 118	1.223	-2.594	3.642	1.00	0.15	H
ATOM	3242	CE1	PHE L 118	1.921	1.152	2.838	1.00	0.15	C
ATOM	3243	HE1	PHE L 118	2.123	2.188	2.606	1.00	0.15	H
ATOM	3244	CE2	PHE L 118	0.508	-0.823	2.638	1.00	0.15	C
ATOM	3245	HE2	PHE L 118	-0.382	-1.302	2.252	1.00	0.15	H
ATOM	3246	CZ	PHE L 118	0.766	0.526	2.340	1.00	0.15	C
ATOM	3247	HZ	PHE L 118	0.080	1.083	1.720	1.00	0.15	H
ATOM	3248	N	GLY L 119	4.029	-3.832	6.990	1.00	0.17	N
ATOM	3249	H	GLY L 119	3.137	-4.080	6.575	1.00	0.17	H
ATOM	3250	CA	GLY L 119	4.963	-4.904	7.305	1.00	0.17	C
ATOM	3251	HA2	GLY L 119	4.423	-5.777	7.667	1.00	0.17	H
ATOM	3252	HA3	GLY L 119	5.639	-4.553	8.079	1.00	0.17	H
ATOM	3253	C	GLY L 119	5.837	-5.300	6.118	1.00	0.17	C
ATOM	3254	O	GLY L 119	5.655	-4.825	5.000	1.00	0.17	O
ATOM	3255	N	GLY L 120	6.796	-6.196	6.361	1.00	0.22	N
ATOM	3256	H	GLY L 120	6.923	-6.517	7.306	1.00	0.22	H
ATOM	3257	CA	GLY L 120	7.704	-6.694	5.317	1.00	0.22	C
ATOM	3258	HA2	GLY L 120	8.151	-5.847	4.794	1.00	0.22	H

ATOM	3259	HA3	GLY	L	120	8.504	-7.266	5.786	1.00	0.22	H
ATOM	3260	C	GLY	L	120	7.037	-7.596	4.270	1.00	0.22	C
ATOM	3261	O	GLY	L	120	7.624	-7.852	3.222	1.00	0.22	O
ATOM	3262	N	GLY	L	121	5.806	-8.042	4.527	1.00	0.22	N
ATOM	3263	H	GLY	L	121	5.348	-7.729	5.368	1.00	0.22	H
ATOM	3264	CA	GLY	L	121	5.097	-9.003	3.694	1.00	0.22	C
ATOM	3265	HA2	GLY	L	121	4.036	-8.812	3.802	1.00	0.22	H
ATOM	3266	HA3	GLY	L	121	5.354	-8.851	2.646	1.00	0.22	H
ATOM	3267	C	GLY	L	121	5.406	-10.458	4.055	1.00	0.22	C
ATOM	3268	O	GLY	L	121	6.448	-10.775	4.624	1.00	0.22	O
ATOM	3269	N	THR	L	122	4.480	-11.348	3.704	1.00	0.25	N
ATOM	3270	H	THR	L	122	3.604	-10.990	3.341	1.00	0.25	H
ATOM	3271	CA	THR	L	122	4.610	-12.801	3.860	1.00	0.25	C
ATOM	3272	HA	THR	L	122	5.661	-13.066	3.970	1.00	0.25	H
ATOM	3273	C	THR	L	122	4.052	-13.472	2.613	1.00	0.25	C
ATOM	3274	CB	THR	L	122	3.855	-13.305	5.099	1.00	0.25	C
ATOM	3275	HB	THR	L	122	2.796	-13.087	4.971	1.00	0.25	H
ATOM	3276	O	THR	L	122	2.849	-13.393	2.356	1.00	0.25	O
ATOM	3277	CG2	THR	L	122	4.024	-14.811	5.313	1.00	0.25	C
ATOM	3278	HG21	THR	L	122	3.579	-15.099	6.265	1.00	0.25	H
ATOM	3279	HG22	THR	L	122	5.081	-15.077	5.327	1.00	0.25	H
ATOM	3280	HG23	THR	L	122	3.524	-15.365	4.519	1.00	0.25	H
ATOM	3281	OG1	THR	L	122	4.295	-12.643	6.264	1.00	0.25	O
ATOM	3282	HG1	THR	L	122	5.243	-12.873	6.365	1.00	0.25	H
ATOM	3283	N	LYS	L	123	4.911	-14.100	1.808	1.00	0.35	N
ATOM	3284	H	LYS	L	123	5.899	-14.090	2.054	1.00	0.35	H
ATOM	3285	CA	LYS	L	123	4.504	-14.806	0.585	1.00	0.35	C
ATOM	3286	HA	LYS	L	123	3.652	-14.298	0.152	1.00	0.35	H
ATOM	3287	C	LYS	L	123	4.043	-16.238	0.865	1.00	0.35	C
ATOM	3288	CB	LYS	L	123	5.638	-14.747	-0.448	1.00	0.35	C
ATOM	3289	HB2	LYS	L	123	5.969	-13.714	-0.566	1.00	0.35	H
ATOM	3290	HB3	LYS	L	123	6.481	-15.351	-0.104	1.00	0.35	H
ATOM	3291	O	LYS	L	123	4.791	-17.018	1.444	1.00	0.35	O
ATOM	3292	CG	LYS	L	123	5.139	-15.271	-1.804	1.00	0.35	C
ATOM	3293	HG2	LYS	L	123	4.302	-14.660	-2.147	1.00	0.35	H
ATOM	3294	HG3	LYS	L	123	4.795	-16.300	-1.684	1.00	0.35	H
ATOM	3295	CD	LYS	L	123	6.243	-15.261	-2.864	1.00	0.35	C
ATOM	3296	HD2	LYS	L	123	6.529	-14.236	-3.106	1.00	0.35	H
ATOM	3297	HD3	LYS	L	123	7.110	-15.785	-2.457	1.00	0.35	H
ATOM	3298	CE	LYS	L	123	5.721	-15.987	-4.112	1.00	0.35	C
ATOM	3299	HE2	LYS	L	123	5.205	-15.284	-4.769	1.00	0.35	H
ATOM	3300	HE3	LYS	L	123	4.998	-16.742	-3.780	1.00	0.35	H
ATOM	3301	NZ	LYS	L	123	6.805	-16.704	-4.817	1.00	0.35	N

ATOM	3302	HZ1	LYS	L	123	7.509	-16.110	-5.216	1.00	0.35		H
ATOM	3303	HZ2	LYS	L	123	7.250	-17.315	-4.122	1.00	0.35		H
ATOM	3304	HZ3	LYS	L	123	6.426	-17.388	-5.457	1.00	0.35		H
ATOM	3305	N	LEU	L	124	2.843	-16.604	0.418	1.00	0.50		N
ATOM	3306	H	LEU	L	124	2.277	-15.915	-0.063	1.00	0.50		H
ATOM	3307	CA	LEU	L	124	2.395	-17.998	0.407	1.00	0.50		C
ATOM	3308	HA	LEU	L	124	2.887	-18.537	1.218	1.00	0.50		H
ATOM	3309	C	LEU	L	124	2.816	-18.683	-0.891	1.00	0.50		C
ATOM	3310	CB	LEU	L	124	0.883	-18.098	0.645	1.00	0.50		C
ATOM	3311	HB2	LEU	L	124	0.617	-19.156	0.656	1.00	0.50		H
ATOM	3312	HB3	LEU	L	124	0.353	-17.624	-0.183	1.00	0.50		H
ATOM	3313	O	LEU	L	124	2.425	-18.256	-1.977	1.00	0.50		O
ATOM	3314	CG	LEU	L	124	0.430	-17.450	1.965	1.00	0.50		C
ATOM	3315	HG	LEU	L	124	0.487	-16.366	1.873	1.00	0.50		H
ATOM	3316	CD1	LEU	L	124	-1.019	-17.842	2.226	1.00	0.50		C
ATOM	3317	HD11	LEU	L	124	-1.637	-17.530	1.384	1.00	0.50		H
ATOM	3318	HD12	LEU	L	124	-1.097	-18.922	2.338	1.00	0.50		H
ATOM	3319	HD13	LEU	L	124	-1.376	-17.353	3.130	1.00	0.50		H
ATOM	3320	CD2	LEU	L	124	1.272	-17.877	3.171	1.00	0.50		C
ATOM	3321	HD21	LEU	L	124	1.355	-18.964	3.198	1.00	0.50		H
ATOM	3322	HD22	LEU	L	124	2.268	-17.443	3.097	1.00	0.50		H
ATOM	3323	HD23	LEU	L	124	0.823	-17.517	4.093	1.00	0.50		H
ATOM	3324	N	GLU	L	125	3.611	-19.734	-0.743	1.00	0.40		N
ATOM	3325	H	GLU	L	125	3.841	-20.015	0.206	1.00	0.40		H
ATOM	3326	CA	GLU	L	125	4.019	-20.669	-1.789	1.00	0.40		C
ATOM	3327	HA	GLU	L	125	3.833	-20.233	-2.772	1.00	0.40		H
ATOM	3328	C	GLU	L	125	3.216	-21.969	-1.649	1.00	0.40		C
ATOM	3329	CB	GLU	L	125	5.517	-21.011	-1.661	1.00	0.40		C
ATOM	3330	HB2	GLU	L	125	5.643	-21.644	-0.785	1.00	0.40		H
ATOM	3331	HB3	GLU	L	125	5.819	-21.604	-2.525	1.00	0.40		H
ATOM	3332	O	GLU	L	125	2.840	-22.344	-0.540	1.00	0.40		O
ATOM	3333	CG	GLU	L	125	6.501	-19.844	-1.493	1.00	0.40		C
ATOM	3334	HG2	GLU	L	125	7.462	-20.268	-1.193	1.00	0.40		H
ATOM	3335	HG3	GLU	L	125	6.175	-19.191	-0.680	1.00	0.40		H
ATOM	3336	CD	GLU	L	125	6.722	-19.015	-2.760	1.00	0.40		C
ATOM	3337	OE1	GLU	L	125	7.702	-18.236	-2.796	1.00	0.40		O
ATOM	3338	OE2	GLU	L	125	5.919	-19.063	-3.722	1.00	0.40		O
ATOM	3339	N	ILE	L	126	3.011	-22.704	-2.744	1.00	0.40		N
ATOM	3340	H	ILE	L	126	3.412	-22.394	-3.614	1.00	0.40		H
ATOM	3341	CA	ILE	L	126	2.483	-24.076	-2.669	1.00	0.40		C
ATOM	3342	HA	ILE	L	126	1.634	-24.060	-2.000	1.00	0.40		H
ATOM	3343	C	ILE	L	126	3.534	-25.026	-2.053	1.00	0.40		C
ATOM	3344	CB	ILE	L	126	1.958	-24.545	-4.048	1.00	0.40		C

ATOM 3345 HB ILE L 126 2.776 -24.448 -4.765 1.00 0.40 H
 ATOM 3346 O ILE L 126 4.738 -24.808 -2.216 1.00 0.40 O
 ATOM 3347 CG1 ILE L 126 0.796 -23.663 -4.561 1.00 0.40 C
 ATOM 3348 HG12 ILE L 126 1.157 -22.643 -4.688 1.00 0.40 H
 ATOM 3349 HG13 ILE L 126 0.499 -24.019 -5.549 1.00 0.40 H
 ATOM 3350 CG2 ILE L 126 1.522 -26.022 -4.069 1.00 0.40 C
 ATOM 3351 HG21 ILE L 126 0.826 -26.233 -3.256 1.00 0.40 H
 ATOM 3352 HG22 ILE L 126 2.389 -26.674 -3.956 1.00 0.40 H
 ATOM 3353 HG23 ILE L 126 1.048 -26.266 -5.020 1.00 0.40 H
 ATOM 3354 CD1 ILE L 126 -0.457 -23.628 -3.670 1.00 0.40 C
 ATOM 3355 HD11 ILE L 126 -0.239 -23.135 -2.723 1.00 0.40 H
 ATOM 3356 HD12 ILE L 126 -1.243 -23.069 -4.178 1.00 0.40 H
 ATOM 3357 HD13 ILE L 126 -0.821 -24.636 -3.477 1.00 0.40 H
 ATOM 3358 N LYS L 127 3.079 -26.081 -1.368 1.00 0.41 N
 ATOM 3359 H LYS L 127 2.074 -26.182 -1.293 1.00 0.41 H
 ATOM 3360 CA LYS L 127 3.855 -27.290 -1.032 1.00 0.41 C
 ATOM 3361 HA LYS L 127 4.780 -27.276 -1.608 1.00 0.41 H
 ATOM 3362 C LYS L 127 3.121 -28.545 -1.504 1.00 0.41 C
 ATOM 3363 CB LYS L 127 4.230 -27.322 0.466 1.00 0.41 C
 ATOM 3364 HB2 LYS L 127 4.242 -26.303 0.842 1.00 0.41 H
 ATOM 3365 HB3 LYS L 127 5.247 -27.707 0.547 1.00 0.41 H
 ATOM 3366 O LYS L 127 1.881 -28.447 -1.660 1.00 0.41 O
 ATOM 3367 CG LYS L 127 3.336 -28.188 1.371 1.00 0.41 C
 ATOM 3368 HG2 LYS L 127 3.524 -29.242 1.163 1.00 0.41 H
 ATOM 3369 HG3 LYS L 127 2.297 -27.979 1.155 1.00 0.41 H
 ATOM 3370 CD LYS L 127 3.612 -27.912 2.857 1.00 0.41 C
 ATOM 3371 HD2 LYS L 127 3.378 -26.875 3.082 1.00 0.41 H
 ATOM 3372 HD3 LYS L 127 4.676 -28.060 3.044 1.00 0.41 H
 ATOM 3373 CE LYS L 127 2.818 -28.825 3.803 1.00 0.41 C
 ATOM 3374 HE2 LYS L 127 3.023 -29.863 3.525 1.00 0.41 H
 ATOM 3375 HE3 LYS L 127 3.187 -28.666 4.819 1.00 0.41 H
 ATOM 3376 NZ LYS L 127 1.355 -28.579 3.764 1.00 0.41 N
 ATOM 3377 HZ1 LYS L 127 1.070 -27.627 4.008 1.00 0.41 H
 ATOM 3378 HZ2 LYS L 127 0.830 -29.187 4.372 1.00 0.41 H
 ATOM 3379 HZ3 LYS L 127 0.964 -28.745 2.838 1.00 0.41 H
 ATOM 3380 OXT LYS L 127 3.802 -29.579 -1.642 1.00 0.41 O
 TER 3381 LYS L 127
 CONECT 319 1454
 CONECT 1454 319
 CONECT 2102 3079
 CONECT 3079 2102
 END

PROSA

Overall model quality

Z-Score: **not calculated.**

Please check if the selected chain id matches a protein chain!

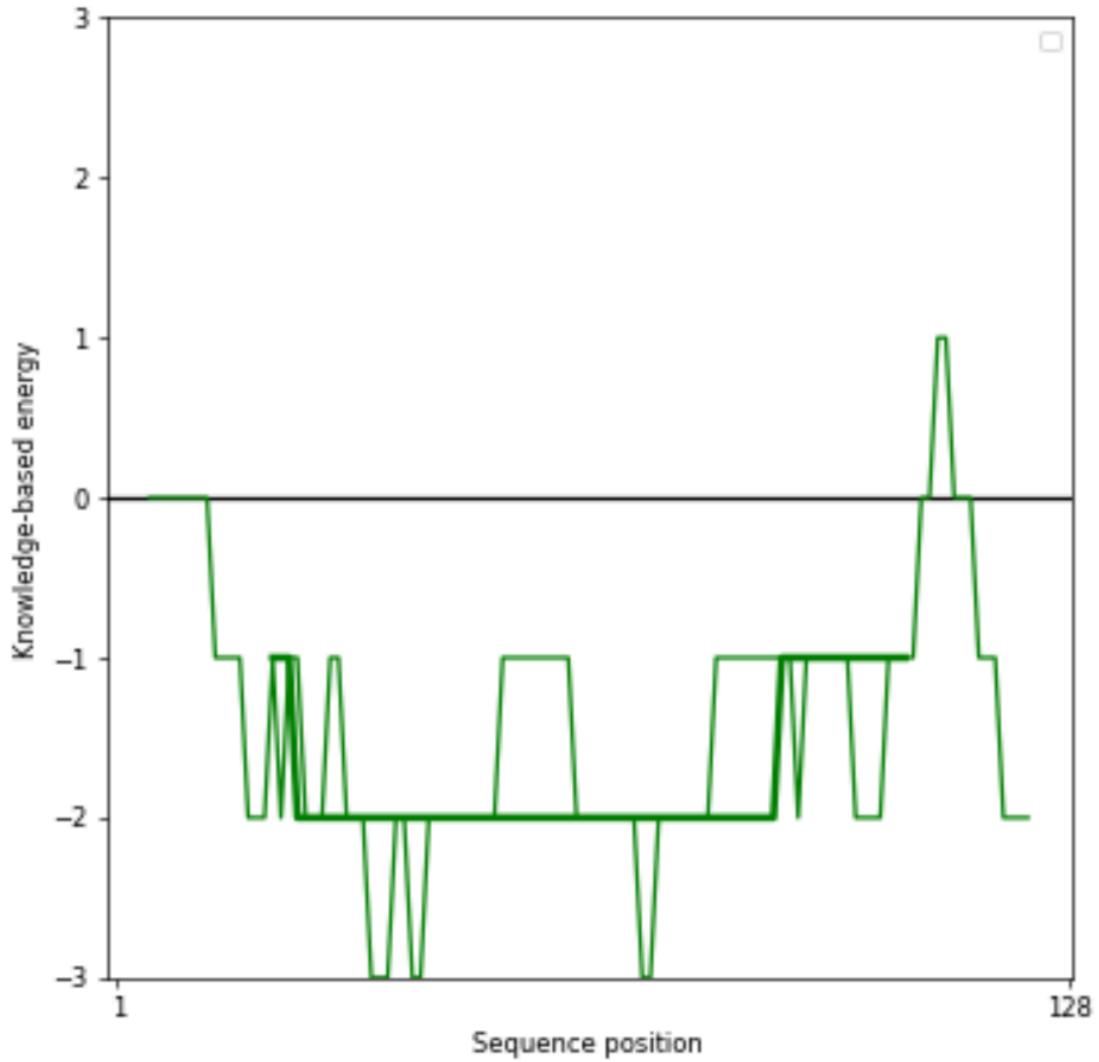
[HELP](#)

Local model quality

Energy plot: **not generated.**

Please check if the selected chain id matches a protein chain!

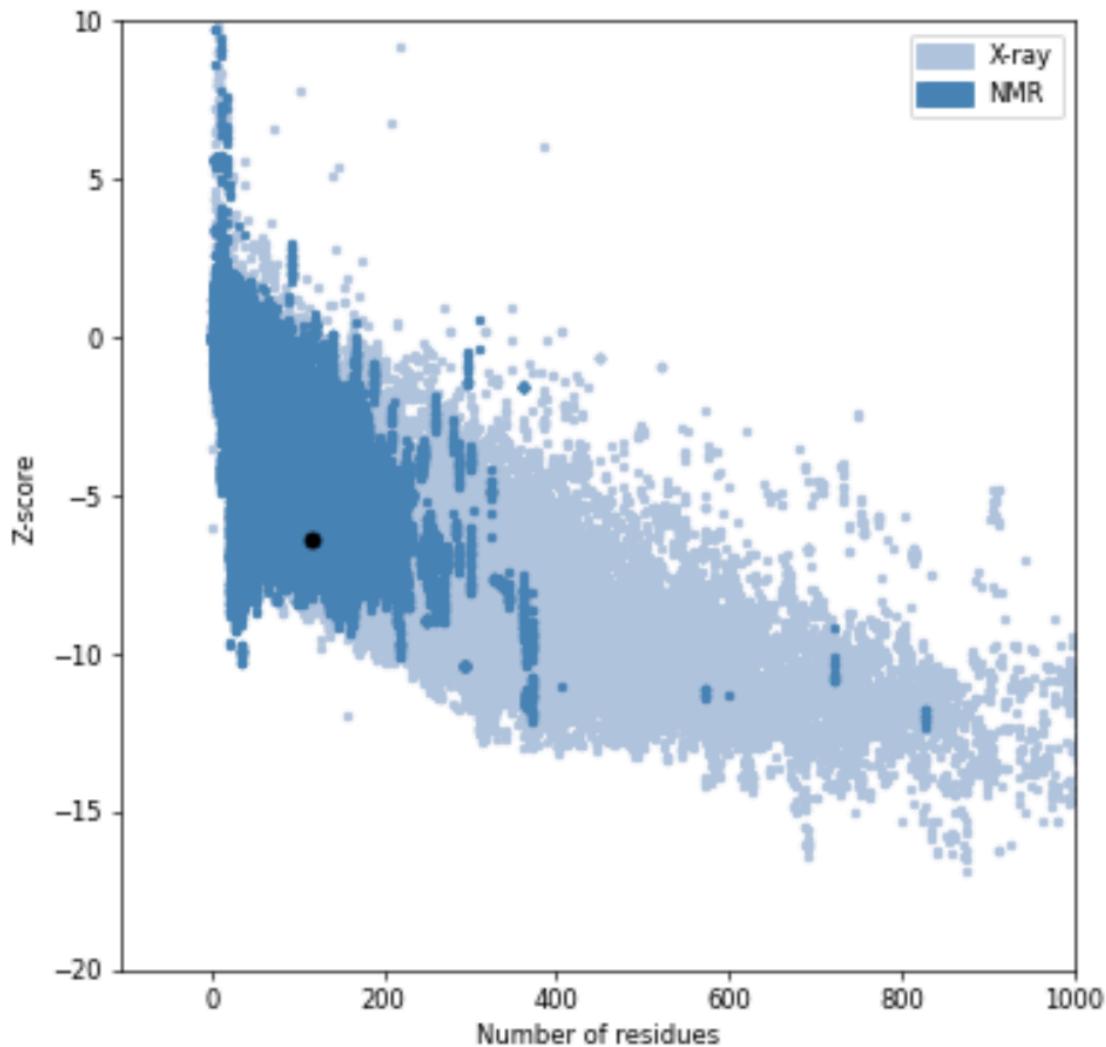
With Trimmed:

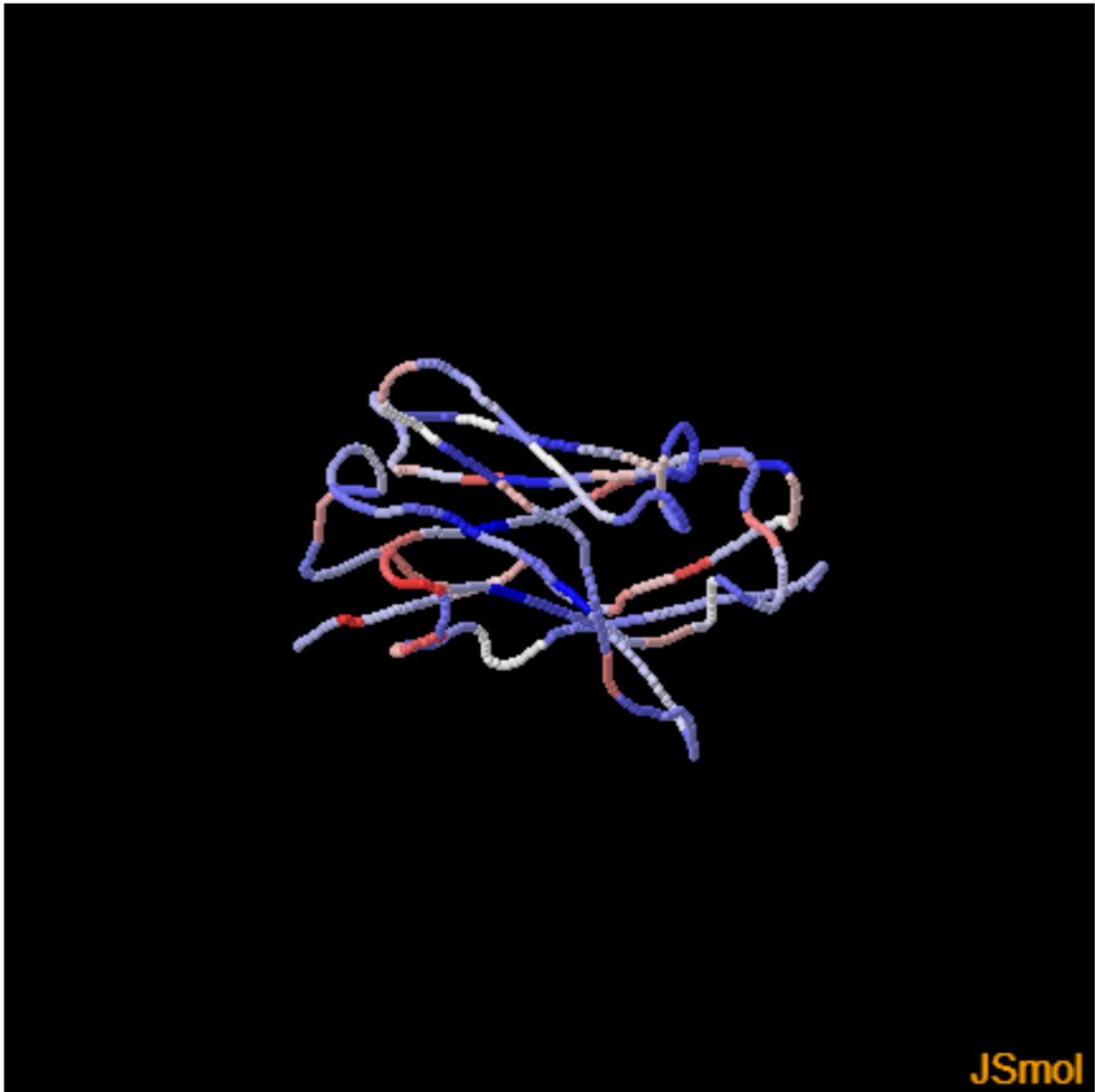


Overall model quality

[HELP](#)

Z-Score: **-6.39**





JSmol

Lowest energy Highest energy

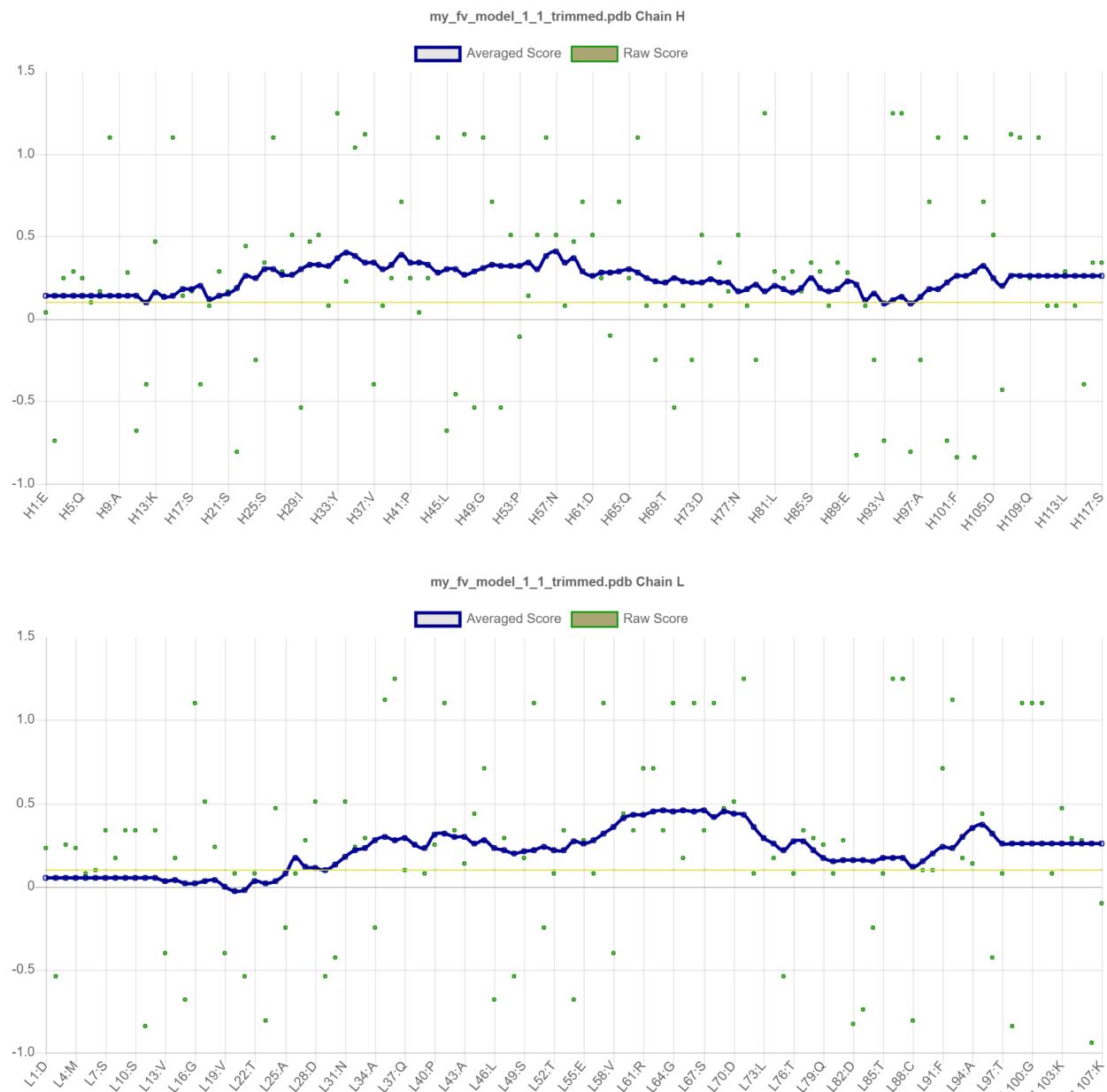
VERIFY 3D RESULTS

VERIFY Complete

87.95% of the residues have
averaged 3D-1D score ≥ 0.1

Pass

At least 80% of the amino acids have scored ≥ 0.1 in the 3D/1D profile.



ERRAT:

ERRAT

Overall Quality Factor

95.6522

LOG FILE WARNING: Missing Residues9>>>11
WARNING: Missing Residues30>>>35
WARNING: Missing Residues59>>>62
WARNING: Missing Residues72>>>74
WARNING: Missing Residues109>>>113
INCREMENTING CHAIN (kadd) 1
WARNING: Missing Residues10029>>>10036
WARNING: Missing Residues10057>>>10065
WARNING: Missing Residues10072>>>10074
WARNING: Missing Residues10080>>>10083
WARNING: Missing Residues10109>>>10114
-19.38 -29.579 -20.178 24.2 23.303 23.873
Total frames: 207 P frames 9 Number: 0.0434783

Avg Probability 6.01287
Overall quality factor: 95.6522
Chain Label H: Residue range 5 to 124
Chain Label L: Residue range 10005 to 10123

PSSCRIPT 

```
%!PS
%FIXED
/sce {8} def /scr {3} def
90 rotate 110 -380 translate /e95 {11.527} def /e99 {17.191} def
/Helvetica findfont 18 scalefont setfont 0.5 setlinewidth
/bar1 {/g {1 1 1} def bar} def /bar2 {/g {1 1 0} def bar} def
/bar3 {/g {1 0 0} def bar} def /bar {sce mul /yval exch def
scr mul /xval exch def
newpath xval 0 moveto xval yval lineto scr -1 mul 0}
```

```

rlineto 0 yval -1 mul rlineto closepath gsave g setrgbcolor
fill grestore stroke} def
/tick {newpath 0.5 sub scr mul 0 moveto 0 -3 rlineto
currentpoint stroke moveto -10 -12 rmoveto} def
% VARIABLE
0.664 0.664 scale /rlim {120} def
gsave 0 30 sce mul 20 add translate
0 30 moveto (Chain#:H) show
0 50 moveto (File: my_fv_model_1_1_trimmed.pdb) show
0 10 moveto (Overall quality factor**: 95.652)show
0 70 moveto (Program: ERRAT2) show
() show
% FIXED
grestore newpath 0 0 moveto 0 27 sce mul rlineto stroke
newpath rlim scr mul 0 moveto 0 27 sce mul rlineto stroke
newpath 0 0 moveto rlim scr mul 0 rlineto stroke
newpath -3 e95 sce mul moveto rlim scr mul 3 add 0 rlineto
stroke newpath -3 e99 sce mul moveto rlim scr mul 3 add 0
rlineto stroke
newpath 0 27 sce mul moveto rlim scr
mul 0 rlineto stroke
rlim scr mul 2 div 100 sub -34
moveto (Residue # (window center)) show
/Helvetica findfont 14 scalefont setfont 0.5 setlinewidth
-34 e95 sce mul 4 sub moveto (95%) show
-34 e99 sce mul 4 sub moveto (99%) show
/Helvetica findfont 12 scalefont setfont 0.5 setlinewidth
0 -70 moveto (*On the error axis, two lines are drawn to indicate the confidence with) show
0 -82 moveto (which it is possible to reject regions that exceed that error value.) show
0 -100 moveto (**Expressed as the percentage of the protein for which the calculated) show
0 -112 moveto (error value falls below the 95% rejection limit. Good high resolution) show
0 -124 moveto (structures generally produce values around 95% or higher. For lower) show
0 -136 moveto (resolutions (2.5 to 3A) the average overall quality factor is around 91%. ) show
/Helvetica findfont 18 scalefont setfont 0.5 setlinewidth
gsave -40 -5 translate 90 rotate 80 0 moveto (Error value*)
show grestore
/Helvetica findfont 16 scalefont setfont 0.5 setlinewidth
6 tick
16 tick
(20) show
26 tick
36 tick
(40) show
46 tick

```

56 tick
(60) show
66 tick
76 tick
(80) show
86 tick
96 tick
(100) show
106 tick
116 tick
(120) show

1	3.632 bar1
2	1.484 bar1
3	2.031 bar1
4	2.011 bar1
5	3.904 bar1
6	5.007 bar1
7	9.671 bar1
8	7.372 bar1
9	6.375 bar1
10	0.000 bar1
11	8.213 bar1
12	4.373 bar1
13	4.530 bar1
14	9.915 bar1
15	4.227 bar1
16	5.197 bar1
17	5.423 bar1
18	7.286 bar1
19	5.269 bar1
20	6.779 bar1
21	5.353 bar1
22	5.493 bar1
23	4.278 bar1
24	1.921 bar1
25	5.411 bar1
26	19.830 bar3
27	16.489 bar2
28	12.369 bar2
29	11.038 bar1
30	7.576 bar1
31	0.000 bar1
32	0.000 bar1
33	0.000 bar1

34	0.000 bar1
35	6.335 bar1
36	4.382 bar1
37	4.928 bar1
38	7.387 bar1
39	3.579 bar1
40	2.280 bar1
41	4.993 bar1
42	3.613 bar1
43	3.806 bar1
44	2.366 bar1
45	7.129 bar1
46	8.648 bar1
47	9.519 bar1
48	10.786 bar1
49	10.417 bar1
50	10.240 bar1
51	10.256 bar1
52	8.541 bar1
53	10.187 bar1
54	9.621 bar1
55	11.022 bar1
56	6.983 bar1
57	8.082 bar1
58	12.961 bar2
59	11.514 bar1
60	0.000 bar1
61	0.000 bar1
62	10.572 bar1
63	13.808 bar2
64	9.973 bar1
65	5.956 bar1
66	4.894 bar1
67	3.368 bar1
68	2.576 bar1
69	2.016 bar1
70	1.507 bar1
71	0.478 bar1
72	1.916 bar1
73	0.000 bar1
74	1.722 bar1
75	1.700 bar1
76	3.192 bar1
77	2.883 bar1

78 1.038 bar1
79 1.665 bar1
80 1.735 bar1
81 3.439 bar1
82 4.573 bar1
83 6.110 bar1
84 6.767 bar1
85 8.527 bar1
86 8.065 bar1
87 9.061 bar1
88 8.896 bar1
89 5.771 bar1
90 4.760 bar1
91 3.659 bar1
92 4.402 bar1
93 4.182 bar1
94 3.862 bar1
95 4.969 bar1
96 5.807 bar1
97 6.540 bar1
98 7.619 bar1
99 7.841 bar1
100 6.845 bar1
101 6.196 bar1
102 3.193 bar1
103 2.970 bar1
104 6.544 bar1
105 4.538 bar1
106 6.285 bar1
107 5.731 bar1
108 8.686 bar1
109 8.531 bar1
110 0.000 bar1
111 0.000 bar1
112 0.000 bar1
113 5.197 bar1
114 6.620 bar1
115 4.595 bar1
116 3.187 bar1
117 2.590 bar1
118 3.942 bar1
119 4.977 bar1
120 0.000 bar1
showpage

```

%IPS
%FIXED
/sce {8} def /scr {3} def
90 rotate 110 -380 translate /e95 {11.527} def /e99 {17.191} def
/Helvetica findfont 18 scalefont setfont 0.5 setlinewidth
/bar1 {/g {1 1 1} def bar} def /bar2 {/g {1 1 0} def bar} def
/bar3 {/g {1 0 0} def bar} def /bar {sce mul /yval exch def
scr mul /xval exch def
newpath xval 0 moveto xval yval lineto scr -1 mul 0
rlineto 0 yval -1 mul rlineto closepath gsave g setrgbcolor
fill grestore stroke} def
/tick {newpath 0.5 sub scr mul 0 moveto 0 -3 rlineto
currentpoint stroke moveto -10 -12 rmoveto} def
% VARIABLE
0.664 0.664 scale /rlim {119} def
gsave 0 30 sce mul 20 add translate
0 30 moveto (Chain#:L) show
0 50 moveto (File: my_fv_model_1_1_trimmed.pdb) show
0 10 moveto (Overall quality factor**: 95.652)show
0 70 moveto (Program: ERRAT2) show
() show
% FIXED
grestore newpath 0 0 moveto 0 27 sce mul rlineto stroke
newpath rlim scr mul 0 moveto 0 27 sce mul rlineto stroke
newpath 0 0 moveto rlim scr mul 0 rlineto stroke
newpath -3 e95 sce mul moveto rlim scr mul 3 add 0 rlineto
stroke newpath -3 e99 sce mul moveto rlim scr mul 3 add 0
rlineto stroke
newpath 0 27 sce mul moveto rlim scr
mul 0 rlineto stroke
rlim scr mul 2 div 100 sub -34
moveto (Residue # (window center)) show
/Helvetica findfont 14 scalefont setfont 0.5 setlinewidth
-34 e95 sce mul 4 sub moveto (95%) show
-34 e99 sce mul 4 sub moveto (99%) show
/Helvetica findfont 12 scalefont setfont 0.5 setlinewidth
0 -70 moveto (*On the error axis, two lines are drawn to indicate the confidence with) show
0 -82 moveto (which it is possible to reject regions that exceed that error value.) show
0 -100 moveto (**Expressed as the percentage of the protein for which the calculated) show
0 -112 moveto (error value falls below the 95% rejection limit. Good high resolution) show
0 -124 moveto (structures generally produce values around 95% or higher. For lower) show
0 -136 moveto (resolutions (2.5 to 3A) the average overall quality factor is around 91%. ) show
/Helvetica findfont 18 scalefont setfont 0.5 setlinewidth
gsave -40 -5 translate 90 rotate 80 0 moveto (Error value*)

```

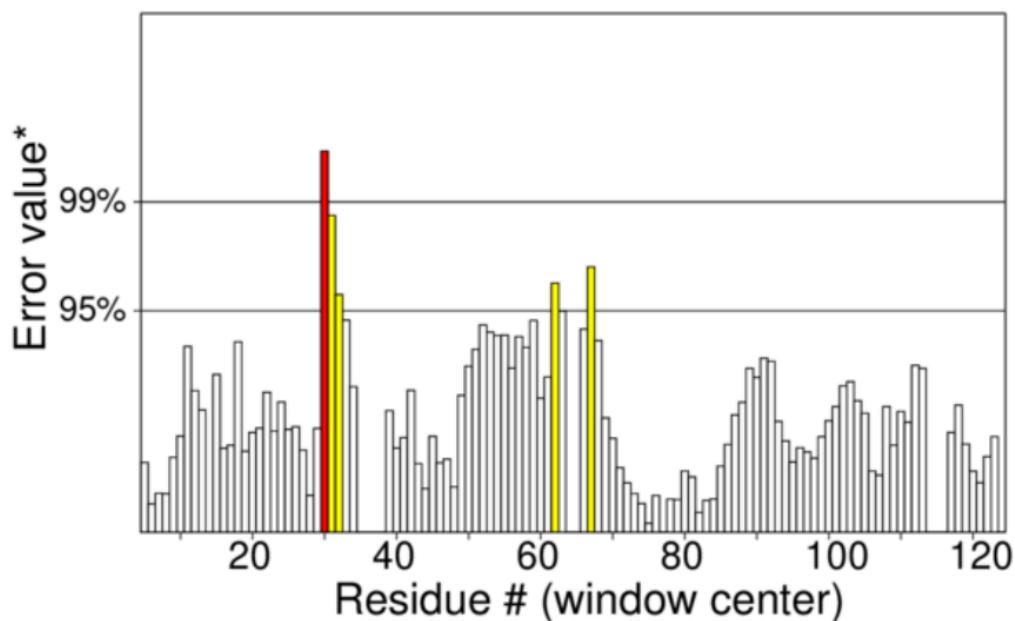
```
show grestore
/Helvetica findfont 16 scalefont setfont 0.5 setlinewidth
6 tick
16 tick
(20) show
26 tick
36 tick
(40) show
46 tick
56 tick
(60) show
66 tick
76 tick
(80) show
86 tick
96 tick
(100) show
106 tick
116 tick
(120) show
1      9.539 bar1
2      7.575 bar1
3      6.034 bar1
4      7.341 bar1
5      7.378 bar1
6      9.820 bar1
7      12.921 bar2
8      13.584 bar2
9      4.643 bar1
10     4.861 bar1
11     6.259 bar1
12     7.041 bar1
13     5.821 bar1
14     7.643 bar1
15     10.227 bar1
16     9.070 bar1
17     8.589 bar1
18     4.832 bar1
19     6.416 bar1
20     7.056 bar1
21     4.210 bar1
22     3.288 bar1
23     4.007 bar1
24     3.599 bar1
```

25	2.184 bar1
26	2.252 bar1
27	2.386 bar1
28	4.232 bar1
29	5.184 bar1
30	0.000 bar1
31	0.000 bar1
32	0.000 bar1
33	0.000 bar1
34	0.000 bar1
35	0.000 bar1
36	4.742 bar1
37	7.046 bar1
38	8.042 bar1
39	6.520 bar1
40	8.228 bar1
41	10.103 bar1
42	7.289 bar1
43	5.653 bar1
44	4.297 bar1
45	5.065 bar1
46	4.627 bar1
47	3.403 bar1
48	2.011 bar1
49	2.328 bar1
50	2.114 bar1
51	1.172 bar1
52	1.125 bar1
53	0.879 bar1
54	1.478 bar1
55	0.997 bar1
56	0.347 bar1
57	1.121 bar1
58	0.000 bar1
59	0.000 bar1
60	0.000 bar1
61	0.000 bar1
62	0.000 bar1
63	0.000 bar1
64	0.000 bar1
65	2.824 bar1
66	1.068 bar1
67	2.773 bar1
68	2.688 bar1

69 5.493 bar1
70 2.824 bar1
71 1.955 bar1
72 7.548 bar1
73 0.000 bar1
74 3.281 bar1
75 3.110 bar1
76 3.745 bar1
77 5.634 bar1
78 5.573 bar1
79 5.755 bar1
80 7.358 bar1
81 0.000 bar1
82 0.000 bar1
83 7.715 bar1
84 11.188 bar1
85 11.507 bar1
86 13.595 bar2
87 11.614 bar2
88 7.409 bar1
89 3.265 bar1
90 1.186 bar1
91 0.696 bar1
92 2.368 bar1
93 2.076 bar1
94 4.202 bar1
95 5.833 bar1
96 9.400 bar1
97 10.727 bar1
98 11.251 bar1
99 8.597 bar1
100 7.898 bar1
101 6.377 bar1
102 7.005 bar1
103 6.489 bar1
104 5.576 bar1
105 5.248 bar1
106 7.808 bar1
107 7.771 bar1
108 8.947 bar1
109 8.986 bar1
110 0.000 bar1
111 0.000 bar1
112 0.000 bar1

```
113  0.000 bar1
114  10.498 bar1
115  9.842 bar1
116  9.957 bar1
117  8.944 bar1
118  7.998 bar1
119  5.973 bar1
showpage
```

Program: ERRAT2
File: my_fv_model_1_1_trimmed.pdb
Chain#:H
Overall quality factor**: 95.652

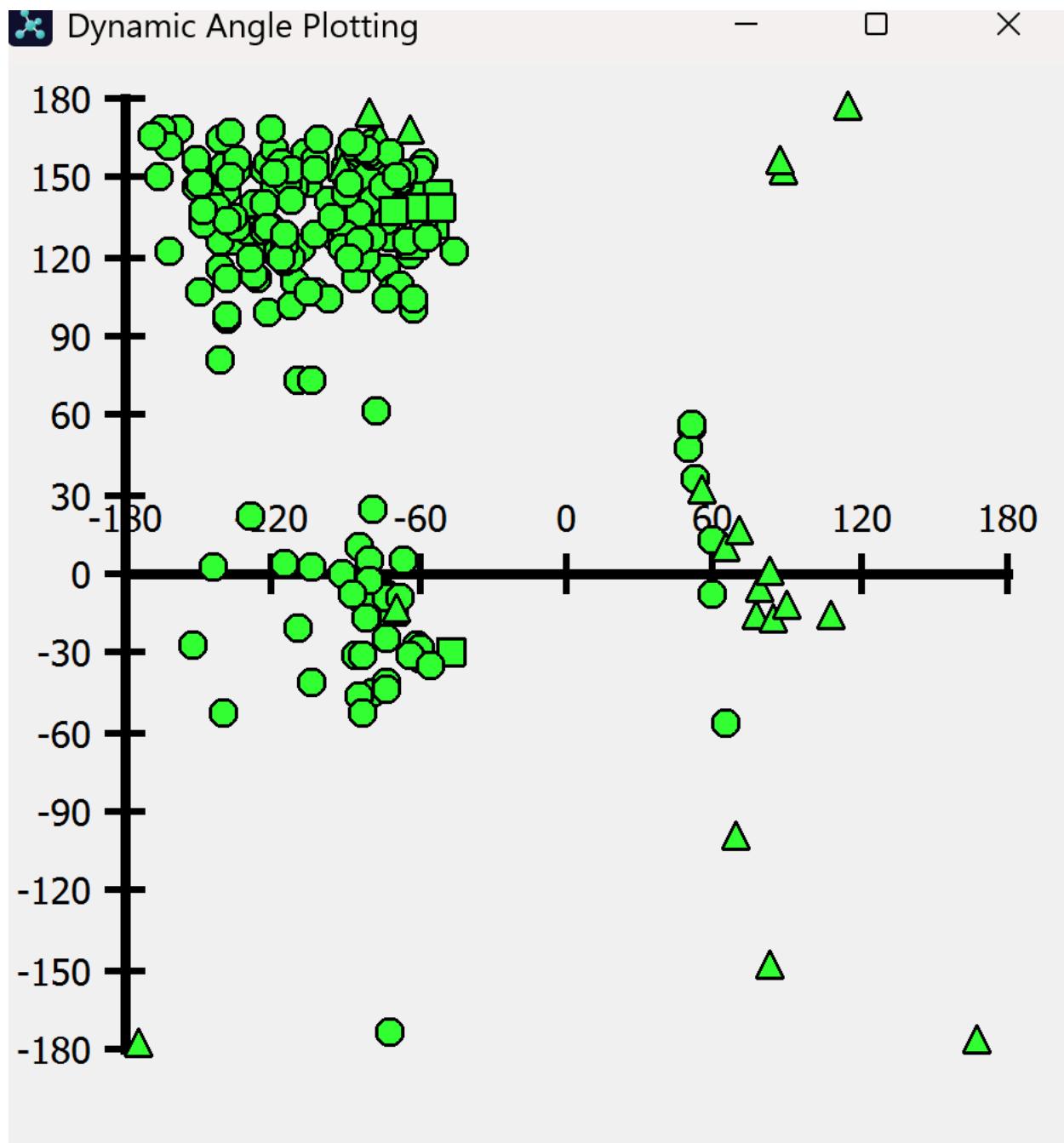


*On the error axis, two lines are drawn to indicate the confidence with which it is possible to reject regions that exceed that error value.

**Expressed as the percentage of the protein for which the calculated error value falls below the 95% rejection limit. Good high resolution structures generally produce values around 95% or higher. For lower resolutions (2.5 to 3A) the average overall quality factor is around 91%.

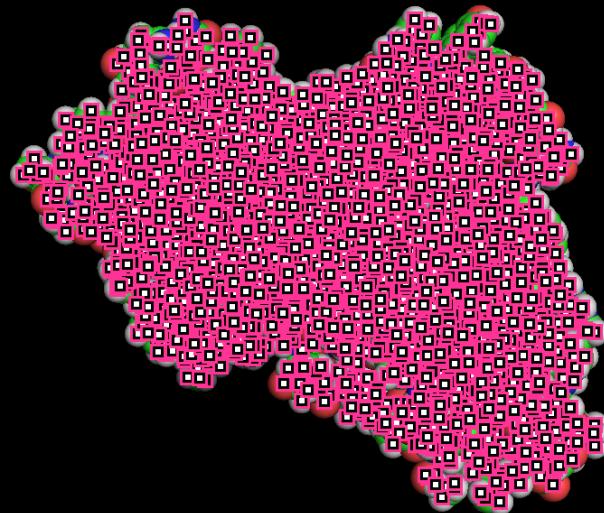
PYMOL REULST

RAMCHADRAN PLOT



Clashes

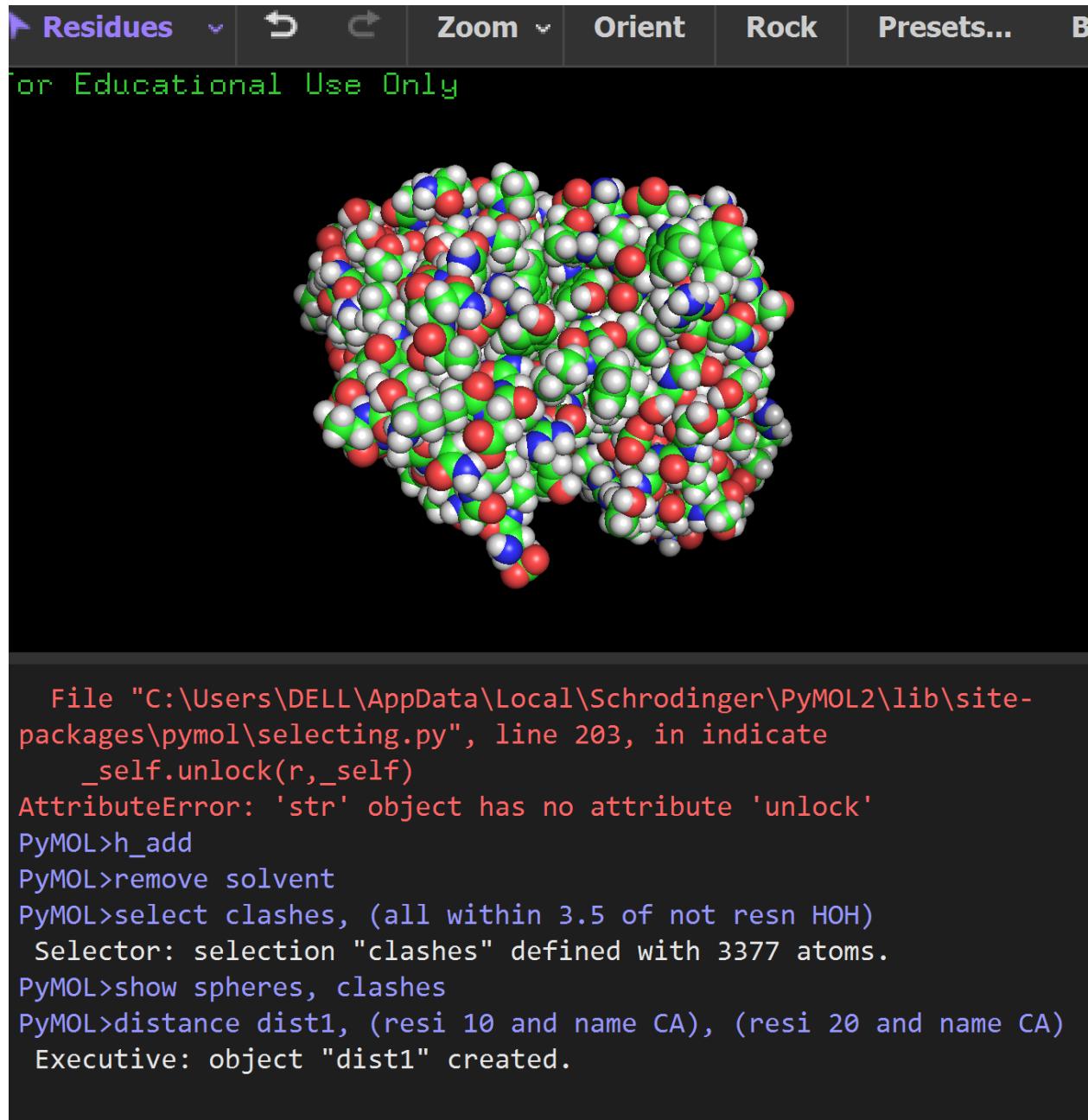
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```
Traceback (most recent call last):
  File "C:\Users\DELL\AppData\Local\Schrodinger\PyMOL2\lib\site-
packages\pymol\selecting.py", line 203, in indicate
    _self.unlock(r,_self)
AttributeError: 'str' object has no attribute 'unlock'
PyMOL>h_add
PyMOL>remove solvent
PyMOL>select clashes, (all within 3.5 of not resn HOH)
  Selector: selection "clashes" defined with 3377 atoms.
PyMOL>show spheres, clashes
```

Step 4: Check Geometry of Bonds and Angles

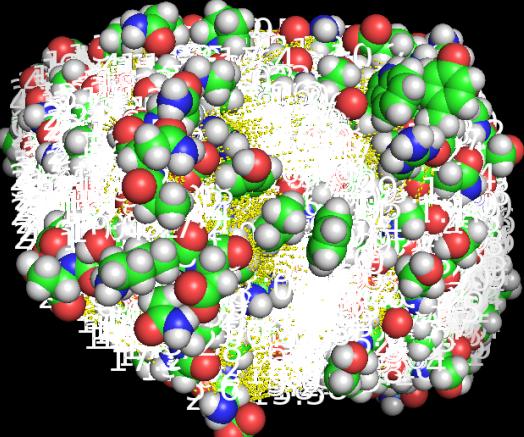
1. Measure Bond Distances:



Measure Angles:

Visualize H bonds

For Educational Use Only



```
cmd>Error: The 'pk2' selection is undefined.  
cmd>Error: The 'pk3' selection is undefined.  
PyMOL>h_bonds all  
    File "toplevel", line 1  
        h_bonds all  
            ^^^  
SyntaxError: invalid syntax  
Unrecognized command, did you mean one of these?  
    bond      set_bond  get_bond  
PyMOL>distance hbonds, (name N and resi 1-100), (name O and resi 1-100)  
Executive: object "hbonds" created.
```