

Remark 1-[4-(((3,5-dimethylanilino)carbonyl)methyl)phenoxy]cyclopentanecarbonyl
 Remark - L-phenylalanine (L-phenylalanine-20) complexed to deoxygenated
 Remark hemoglobin. The hemoglobin coordinate is unrefined. The side chains of
 Remark only few of the allosteric binding site residues have been repositioned
 Remark in the difference map to make proper interactions with the allosteric
 Remark effector

ATOM	1	CB	VAL	1	19.981	31.595	43.730	1.00	20.00	C
ATOM	2	CG1	VAL	1	20.644	32.837	43.131	1.00	20.00	C
ATOM	3	CG2	VAL	1	18.496	31.826	44.009	1.00	20.00	C
ATOM	4	C	VAL	1	21.648	30.004	42.837	1.00	20.00	C
ATOM	5	O	VAL	1	22.097	29.417	43.814	1.00	20.00	O
ATOM	6	N	VAL	1	19.412	29.189	43.295	1.00	20.00	N
ATOM	7	CA	VAL	1	20.174	30.371	42.796	1.00	20.00	C
ATOM	8	N	LEU	2	22.395	30.311	41.785	1.00	20.00	N
ATOM	9	CA	LEU	2	23.818	30.007	41.802	1.00	20.00	C
ATOM	10	CB	LEU	2	24.380	29.894	40.381	1.00	20.00	C
ATOM	11	CG	LEU	2	23.948	28.704	39.521	1.00	20.00	C
ATOM	12	CD1	LEU	2	24.592	28.817	38.158	1.00	20.00	C
ATOM	13	CD2	LEU	2	24.352	27.399	40.160	1.00	20.00	C
ATOM	14	C	LEU	2	24.527	31.134	42.551	1.00	20.00	C
ATOM	15	O	LEU	2	24.393	32.296	42.186	1.00	20.00	O
ATOM	16	N	SER	3	25.198	30.808	43.648	1.00	20.00	N
ATOM	17	CA	SER	3	25.932	31.814	44.406	1.00	20.00	C
ATOM	18	CB	SER	3	26.288	31.253	45.784	1.00	20.00	C
ATOM	19	OG	SER	3	27.171	30.150	45.654	1.00	20.00	O
ATOM	20	C	SER	3	27.216	32.171	43.631	1.00	20.00	C
ATOM	21	O	SER	3	27.564	31.512	42.647	1.00	20.00	O
ATOM	22	N	PRO	4	27.929	33.230	44.048	1.00	20.00	N
ATOM	23	CD	PRO	4	27.568	34.258	45.044	1.00	20.00	C
ATOM	24	CA	PRO	4	29.165	33.597	43.339	1.00	20.00	C
ATOM	25	CB	PRO	4	29.651	34.813	44.124	1.00	20.00	C
ATOM	26	CG	PRO	4	28.367	35.452	44.571	1.00	20.00	C
ATOM	27	C	PRO	4	30.186	32.453	43.391	1.00	20.00	C
ATOM	28	O	PRO	4	30.881	32.169	42.406	1.00	20.00	O
ATOM	29	N	ALA	5	30.265	31.791	44.543	1.00	20.00	N
ATOM	30	CA	ALA	5	31.175	30.666	44.716	1.00	20.00	C
ATOM	31	CB	ALA	5	31.146	30.176	46.167	1.00	20.00	C
ATOM	32	C	ALA	5	30.815	29.516	43.755	1.00	20.00	C
ATOM	33	O	ALA	5	31.708	28.832	43.239	1.00	20.00	O
ATOM	34	N	ASP	6	29.517	29.292	43.524	1.00	20.00	N
ATOM	35	CA	ASP	6	29.089	28.232	42.605	1.00	20.00	C
ATOM	36	CB	ASP	6	27.560	28.129	42.518	1.00	20.00	C
ATOM	37	CG	ASP	6	26.933	27.498	43.746	1.00	20.00	C
ATOM	38	OD1	ASP	6	27.494	26.520	44.304	1.00	20.00	O
ATOM	39	OD2	ASP	6	25.850	27.973	44.134	1.00	20.00	O
ATOM	40	C	ASP	6	29.624	28.508	41.209	1.00	20.00	C
ATOM	41	O	ASP	6	30.136	27.602	40.538	1.00	20.00	O
ATOM	42	N	LYS	7	29.504	29.762	40.776	1.00	20.00	N
ATOM	43	CA	LYS	7	29.959	30.146	39.440	1.00	20.00	C
ATOM	44	CB	LYS	7	29.550	31.586	39.120	1.00	20.00	C
ATOM	45	CG	LYS	7	28.039	31.810	39.221	1.00	20.00	C
ATOM	46	CD	LYS	7	27.669	33.278	39.032	1.00	20.00	C
ATOM	47	CE	LYS	7	26.255	33.541	39.514	1.00	20.00	C
ATOM	48	NZ	LYS	7	25.895	34.987	39.488	1.00	20.00	N
ATOM	49	C	LYS	7	31.463	29.938	39.282	1.00	20.00	C
ATOM	50	O	LYS	7	31.933	29.494	38.231	1.00	20.00	O
ATOM	51	N	THR	8	32.199	30.186	40.361	1.00	20.00	N

ATOM	52	CA	THR	8	33.646	29.999	40.368	1.00	20.00	C
ATOM	53	CB	THR	8	34.264	30.608	41.647	1.00	20.00	C
ATOM	54	OG1	THR	8	34.008	32.016	41.661	1.00	20.00	O
ATOM	55	CG2	THR	8	35.755	30.390	41.674	1.00	20.00	C
ATOM	56	C	THR	8	33.985	28.505	40.264	1.00	20.00	C
ATOM	57	O	THR	8	34.865	28.109	39.506	1.00	20.00	O
ATOM	58	N	ASN	9	33.238	27.674	40.980	1.00	20.00	N
ATOM	59	CA	ASN	9	33.455	26.228	40.948	1.00	20.00	C
ATOM	60	CB	ASN	9	32.600	25.531	42.020	1.00	20.00	C
ATOM	61	CG	ASN	9	33.101	25.798	43.436	1.00	20.00	C
ATOM	62	OD1	ASN	9	34.267	26.146	43.636	1.00	20.00	O
ATOM	63	ND2	ASN	9	32.221	25.648	44.420	1.00	20.00	N
ATOM	64	C	ASN	9	33.148	25.644	39.570	1.00	20.00	C
ATOM	65	O	ASN	9	33.913	24.841	39.039	1.00	20.00	O
ATOM	66	N	VAL	10	32.017	26.033	38.999	1.00	20.00	N
ATOM	67	CA	VAL	10	31.621	25.552	37.676	1.00	20.00	C
ATOM	68	CB	VAL	10	30.233	26.087	37.307	1.00	20.00	C
ATOM	69	CG1	VAL	10	29.881	25.716	35.876	1.00	20.00	C
ATOM	70	CG2	VAL	10	29.214	25.533	38.266	1.00	20.00	C
ATOM	71	C	VAL	10	32.651	25.952	36.592	1.00	20.00	C
ATOM	72	O	VAL	10	33.065	25.108	35.785	1.00	20.00	O
ATOM	73	N	LYS	11	33.071	27.222	36.589	1.00	20.00	N
ATOM	74	CA	LYS	11	34.058	27.717	35.619	1.00	20.00	C
ATOM	75	CB	LYS	11	34.286	29.217	35.784	1.00	20.00	C
ATOM	76	CG	LYS	11	33.118	30.083	35.394	1.00	20.00	C
ATOM	77	CD	LYS	11	33.485	31.555	35.518	1.00	20.00	C
ATOM	78	CE	LYS	11	32.295	32.467	35.193	1.00	20.00	C
ATOM	79	NZ	LYS	11	31.810	32.345	33.776	1.00	20.00	N
ATOM	80	C	LYS	11	35.397	26.984	35.755	1.00	20.00	C
ATOM	81	O	LYS	11	36.024	26.619	34.760	1.00	20.00	O
ATOM	82	N	ALA	12	35.834	26.766	36.986	1.00	20.00	N
ATOM	83	CA	ALA	12	37.079	26.066	37.222	1.00	20.00	C
ATOM	84	CB	ALA	12	37.397	26.060	38.699	1.00	20.00	C
ATOM	85	C	ALA	12	36.967	24.638	36.700	1.00	20.00	C
ATOM	86	O	ALA	12	37.823	24.183	35.937	1.00	20.00	O
ATOM	87	N	ALA	13	35.898	23.939	37.085	1.00	20.00	N
ATOM	88	CA	ALA	13	35.690	22.557	36.646	1.00	20.00	C
ATOM	89	CB	ALA	13	34.492	21.943	37.368	1.00	20.00	C
ATOM	90	C	ALA	13	35.518	22.408	35.129	1.00	20.00	C
ATOM	91	O	ALA	13	36.033	21.464	34.524	1.00	20.00	O
ATOM	92	N	TRP	14	34.788	23.329	34.517	1.00	20.00	N
ATOM	93	CA	TRP	14	34.556	23.278	33.082	1.00	20.00	C
ATOM	94	CB	TRP	14	33.487	24.286	32.677	1.00	20.00	C
ATOM	95	CG	TRP	14	32.842	23.917	31.421	1.00	20.00	C
ATOM	96	CD2	TRP	14	32.028	22.764	31.194	1.00	20.00	C
ATOM	97	CE2	TRP	14	31.689	22.752	29.824	1.00	20.00	C
ATOM	98	CE3	TRP	14	31.595	21.711	32.012	1.00	20.00	C
ATOM	99	CD1	TRP	14	32.933	24.567	30.227	1.00	20.00	C
ATOM	100	NE1	TRP	14	32.239	23.873	29.261	1.00	20.00	N
ATOM	101	CZ2	TRP	14	30.890	21.751	29.254	1.00	20.00	C
ATOM	102	CZ3	TRP	14	30.803	20.711	31.446	1.00	20.00	C
ATOM	103	CH2	TRP	14	30.477	20.728	30.073	1.00	20.00	C
ATOM	104	C	TRP	14	35.843	23.579	32.328	1.00	20.00	C
ATOM	105	O	TRP	14	36.134	22.954	31.310	1.00	20.00	O
ATOM	106	N	GLY	15	36.602	24.550	32.828	1.00	20.00	N
ATOM	107	CA	GLY	15	37.857	24.915	32.197	1.00	20.00	C
ATOM	108	C	GLY	15	38.730	23.690	32.061	1.00	20.00	C

ATOM	109	O	GLY	15	39.378	23.484	31.040	1.00	20.00	O
ATOM	110	N	LYS	16	38.694	22.844	33.080	1.00	20.00	N
ATOM	111	CA	LYS	16	39.475	21.617	33.087	1.00	20.00	C
ATOM	112	CB	LYS	16	39.443	20.979	34.476	1.00	20.00	C
ATOM	113	CG	LYS	16	40.595	20.038	34.738	1.00	20.00	C
ATOM	114	CD	LYS	16	41.937	20.741	34.495	1.00	20.00	C
ATOM	115	CE	LYS	16	43.117	19.909	35.003	1.00	20.00	C
ATOM	116	NZ	LYS	16	43.038	18.468	34.576	1.00	20.00	N
ATOM	117	C	LYS	16	38.955	20.635	32.038	1.00	20.00	C
ATOM	118	O	LYS	16	39.735	19.894	31.449	1.00	20.00	O
ATOM	119	N	VAL	17	37.635	20.600	31.843	1.00	20.00	N
ATOM	120	CA	VAL	17	37.019	19.722	30.843	1.00	20.00	C
ATOM	121	CB	VAL	17	35.477	19.913	30.773	1.00	20.00	C
ATOM	122	CG1	VAL	17	34.921	19.300	29.514	1.00	20.00	C
ATOM	123	CG2	VAL	17	34.812	19.269	31.981	1.00	20.00	C
ATOM	124	C	VAL	17	37.651	20.123	29.519	1.00	20.00	C
ATOM	125	O	VAL	17	38.113	19.270	28.753	1.00	20.00	O
ATOM	126	N	GLY	18	37.698	21.434	29.289	1.00	20.00	N
ATOM	127	CA	GLY	18	38.296	21.981	28.089	1.00	20.00	C
ATOM	128	C	GLY	18	37.887	21.355	26.770	1.00	20.00	C
ATOM	129	O	GLY	18	36.704	21.287	26.423	1.00	20.00	O
ATOM	130	N	ALA	19	38.887	20.864	26.046	1.00	20.00	N
ATOM	131	CA	ALA	19	38.682	20.274	24.729	1.00	20.00	C
ATOM	132	CB	ALA	19	40.031	20.162	23.977	1.00	20.00	C
ATOM	133	C	ALA	19	37.956	18.933	24.731	1.00	20.00	C
ATOM	134	O	ALA	19	37.473	18.476	23.688	1.00	20.00	O
ATOM	135	N	HIS	20	37.867	18.296	25.889	1.00	20.00	N
ATOM	136	CA	HIS	20	37.185	17.013	25.971	1.00	20.00	C
ATOM	137	CB	HIS	20	37.700	16.218	27.167	1.00	20.00	C
ATOM	138	CG	HIS	20	39.167	15.953	27.127	1.00	20.00	C
ATOM	139	CD2	HIS	20	40.217	16.670	27.592	1.00	20.00	C
ATOM	140	ND1	HIS	20	39.701	14.811	26.567	1.00	20.00	N
ATOM	141	CE1	HIS	20	41.017	14.834	26.693	1.00	20.00	C
ATOM	142	NE2	HIS	20	41.354	15.953	27.312	1.00	20.00	N
ATOM	143	C	HIS	20	35.673	17.172	26.095	1.00	20.00	C
ATOM	144	O	HIS	20	34.960	16.176	26.211	1.00	20.00	O
ATOM	145	N	ALA	21	35.194	18.413	26.067	1.00	20.00	N
ATOM	146	CA	ALA	21	33.768	18.710	26.207	1.00	20.00	C
ATOM	147	CB	ALA	21	33.488	20.181	25.896	1.00	20.00	C
ATOM	148	C	ALA	21	32.884	17.796	25.359	1.00	20.00	C
ATOM	149	O	ALA	21	32.051	17.068	25.899	1.00	20.00	O
ATOM	150	N	GLY	22	33.104	17.790	24.045	1.00	20.00	N
ATOM	151	CA	GLY	22	32.312	16.942	23.166	1.00	20.00	C
ATOM	152	C	GLY	22	32.395	15.453	23.471	1.00	20.00	C
ATOM	153	O	GLY	22	31.392	14.742	23.444	1.00	20.00	O
ATOM	154	N	GLU	23	33.592	14.961	23.751	1.00	20.00	N
ATOM	155	CA	GLU	23	33.768	13.551	24.075	1.00	20.00	C
ATOM	156	CB	GLU	23	35.254	13.223	24.171	1.00	20.00	C
ATOM	157	CG	GLU	23	35.527	11.823	24.657	1.00	20.00	C
ATOM	158	CD	GLU	23	37.002	11.551	24.824	1.00	20.00	C
ATOM	159	OE1	GLU	23	37.535	11.819	25.929	1.00	20.00	O
ATOM	160	OE2	GLU	23	37.626	11.072	23.845	1.00	20.00	O
ATOM	161	C	GLU	23	33.046	13.178	25.386	1.00	20.00	C
ATOM	162	O	GLU	23	32.500	12.075	25.513	1.00	20.00	O
ATOM	163	N	TYR	24	33.077	14.074	26.373	1.00	20.00	N
ATOM	164	CA	TYR	24	32.379	13.825	27.640	1.00	20.00	C
ATOM	165	CB	TYR	24	32.767	14.852	28.722	1.00	20.00	C

ATOM	166	CG	TYR	24	34.195	14.709	29.225	1.00	20.00	C
ATOM	167	CD1	TYR	24	34.716	15.598	30.168	1.00	20.00	C
ATOM	168	CE1	TYR	24	36.044	15.506	30.591	1.00	20.00	C
ATOM	169	CD2	TYR	24	35.037	13.714	28.721	1.00	20.00	C
ATOM	170	CE2	TYR	24	36.353	13.614	29.129	1.00	20.00	C
ATOM	171	CZ	TYR	24	36.855	14.514	30.064	1.00	20.00	C
ATOM	172	OH	TYR	24	38.181	14.432	30.439	1.00	20.00	O
ATOM	173	C	TYR	24	30.871	13.865	27.390	1.00	20.00	C
ATOM	174	O	TYR	24	30.121	13.092	27.977	1.00	20.00	O
ATOM	175	N	GLY	25	30.442	14.758	26.502	1.00	20.00	N
ATOM	176	CA	GLY	25	29.035	14.860	26.155	1.00	20.00	C
ATOM	177	C	GLY	25	28.536	13.563	25.541	1.00	20.00	C
ATOM	178	O	GLY	25	27.452	13.094	25.871	1.00	20.00	O
ATOM	179	N	ALA	26	29.328	12.959	24.662	1.00	20.00	N
ATOM	180	CA	ALA	26	28.930	11.698	24.047	1.00	20.00	C
ATOM	181	CB	ALA	26	29.901	11.317	22.943	1.00	20.00	C
ATOM	182	C	ALA	26	28.831	10.572	25.085	1.00	20.00	C
ATOM	183	O	ALA	26	27.893	9.764	25.056	1.00	20.00	O
ATOM	184	N	GLU	27	29.803	10.516	25.995	1.00	20.00	N
ATOM	185	CA	GLU	27	29.817	9.494	27.049	1.00	20.00	C
ATOM	186	CB	GLU	27	31.114	9.578	27.858	1.00	20.00	C
ATOM	187	CG	GLU	27	31.209	8.555	28.985	1.00	20.00	C
ATOM	188	CD	GLU	27	32.471	8.709	29.825	1.00	20.00	C
ATOM	189	OE1	GLU	27	32.419	8.438	31.040	1.00	20.00	O
ATOM	190	OE2	GLU	27	33.521	9.097	29.269	1.00	20.00	O
ATOM	191	C	GLU	27	28.610	9.631	27.988	1.00	20.00	C
ATOM	192	O	GLU	27	27.994	8.641	28.378	1.00	20.00	O
ATOM	193	N	ALA	28	28.268	10.861	28.346	1.00	20.00	N
ATOM	194	CA	ALA	28	27.123	11.088	29.223	1.00	20.00	C
ATOM	195	CB	ALA	28	26.978	12.561	29.516	1.00	20.00	C
ATOM	196	C	ALA	28	25.855	10.545	28.554	1.00	20.00	C
ATOM	197	O	ALA	28	25.024	9.913	29.211	1.00	20.00	O
ATOM	198	N	LEU	29	25.708	10.795	27.247	1.00	20.00	N
ATOM	199	CA	LEU	29	24.550	10.308	26.499	1.00	20.00	C
ATOM	200	CB	LEU	29	24.584	10.815	25.050	1.00	20.00	C
ATOM	201	CG	LEU	29	24.376	12.304	24.771	1.00	20.00	C
ATOM	202	CD1	LEU	29	24.715	12.619	23.318	1.00	20.00	C
ATOM	203	CD2	LEU	29	22.951	12.682	25.078	1.00	20.00	C
ATOM	204	C	LEU	29	24.511	8.780	26.508	1.00	20.00	C
ATOM	205	O	LEU	29	23.478	8.172	26.779	1.00	20.00	O
ATOM	206	N	GLU	30	25.637	8.156	26.203	1.00	20.00	N
ATOM	207	CA	GLU	30	25.678	6.710	26.195	1.00	20.00	C
ATOM	208	CB	GLU	30	27.048	6.229	25.716	1.00	20.00	C
ATOM	209	CG	GLU	30	27.195	4.735	25.733	1.00	20.00	C
ATOM	210	CD	GLU	30	28.406	4.262	24.953	1.00	20.00	C
ATOM	211	OE1	GLU	30	29.253	5.116	24.602	1.00	20.00	O
ATOM	212	OE2	GLU	30	28.501	3.040	24.675	1.00	20.00	O
ATOM	213	C	GLU	30	25.344	6.151	27.581	1.00	20.00	C
ATOM	214	O	GLU	30	24.641	5.139	27.695	1.00	20.00	O
ATOM	215	N	ARG	31	25.835	6.812	28.631	1.00	20.00	N
ATOM	216	CA	ARG	31	25.557	6.382	30.001	1.00	20.00	C
ATOM	217	CB	ARG	31	26.315	7.239	31.020	1.00	20.00	C
ATOM	218	CG	ARG	31	27.800	6.925	31.089	1.00	20.00	C
ATOM	219	CD	ARG	31	28.521	7.840	32.084	1.00	20.00	C
ATOM	220	NE	ARG	31	29.937	7.505	32.200	1.00	20.00	N
ATOM	221	CZ	ARG	31	30.413	6.429	32.820	1.00	20.00	C
ATOM	222	NH1	ARG	31	29.598	5.562	33.415	1.00	20.00	N

ATOM	223	NH2	ARG	31	31.708	6.170	32.763	1.00	20.00	N
ATOM	224	C	ARG	31	24.059	6.462	30.264	1.00	20.00	C
ATOM	225	O	ARG	31	23.477	5.548	30.860	1.00	20.00	O
ATOM	226	N	MET	32	23.437	7.541	29.796	1.00	20.00	N
ATOM	227	CA	MET	32	21.998	7.741	29.963	1.00	20.00	C
ATOM	228	CB	MET	32	21.610	9.158	29.524	1.00	20.00	C
ATOM	229	CG	MET	32	20.116	9.453	29.604	1.00	20.00	C
ATOM	230	SD	MET	32	19.667	11.064	28.905	1.00	20.00	S
ATOM	231	CE	MET	32	19.734	10.713	27.104	1.00	20.00	C
ATOM	232	C	MET	32	21.157	6.690	29.210	1.00	20.00	C
ATOM	233	O	MET	32	20.222	6.120	29.776	1.00	20.00	O
ATOM	234	N	PHE	33	21.508	6.400	27.957	1.00	20.00	N
ATOM	235	CA	PHE	33	20.764	5.407	27.168	1.00	20.00	C
ATOM	236	CB	PHE	33	21.276	5.330	25.718	1.00	20.00	C
ATOM	237	CG	PHE	33	21.052	6.589	24.927	1.00	20.00	C
ATOM	238	CD1	PHE	33	19.892	7.322	25.080	1.00	20.00	C
ATOM	239	CD2	PHE	33	22.002	7.029	24.008	1.00	20.00	C
ATOM	240	CE1	PHE	33	19.688	8.488	24.355	1.00	20.00	C
ATOM	241	CE2	PHE	33	21.796	8.197	23.281	1.00	20.00	C
ATOM	242	CZ	PHE	33	20.634	8.916	23.451	1.00	20.00	C
ATOM	243	C	PHE	33	20.840	4.024	27.794	1.00	20.00	C
ATOM	244	O	PHE	33	19.901	3.242	27.684	1.00	20.00	O
ATOM	245	N	LEU	34	21.963	3.707	28.432	1.00	20.00	N
ATOM	246	CA	LEU	34	22.108	2.397	29.058	1.00	20.00	C
ATOM	247	CB	LEU	34	23.583	2.020	29.183	1.00	20.00	C
ATOM	248	CG	LEU	34	24.319	1.796	27.866	1.00	20.00	C
ATOM	249	CD1	LEU	34	25.778	1.483	28.136	1.00	20.00	C
ATOM	250	CD2	LEU	34	23.665	0.650	27.117	1.00	20.00	C
ATOM	251	C	LEU	34	21.456	2.329	30.433	1.00	20.00	C
ATOM	252	O	LEU	34	20.836	1.327	30.774	1.00	20.00	O
ATOM	253	N	SER	35	21.620	3.384	31.233	1.00	20.00	N
ATOM	254	CA	SER	35	21.069	3.407	32.584	1.00	20.00	C
ATOM	255	CB	SER	35	21.754	4.482	33.434	1.00	20.00	C
ATOM	256	OG	SER	35	23.049	4.071	33.812	1.00	20.00	O
ATOM	257	C	SER	35	19.575	3.628	32.634	1.00	20.00	C
ATOM	258	O	SER	35	18.881	3.027	33.459	1.00	20.00	O
ATOM	259	N	PHE	36	19.091	4.505	31.760	1.00	20.00	N
ATOM	260	CA	PHE	36	17.680	4.866	31.692	1.00	20.00	C
ATOM	261	CB	PHE	36	17.508	6.324	32.165	1.00	20.00	C
ATOM	262	CG	PHE	36	18.248	6.625	33.444	1.00	20.00	C
ATOM	263	CD1	PHE	36	19.437	7.356	33.425	1.00	20.00	C
ATOM	264	CD2	PHE	36	17.783	6.141	34.663	1.00	20.00	C
ATOM	265	CE1	PHE	36	20.161	7.581	34.595	1.00	20.00	C
ATOM	266	CE2	PHE	36	18.496	6.358	35.833	1.00	20.00	C
ATOM	267	CZ	PHE	36	19.687	7.088	35.799	1.00	20.00	C
ATOM	268	C	PHE	36	17.185	4.680	30.257	1.00	20.00	C
ATOM	269	O	PHE	36	17.017	5.647	29.508	1.00	20.00	O
ATOM	270	N	PRO	37	16.889	3.436	29.878	1.00	20.00	N
ATOM	271	CD	PRO	37	16.907	2.280	30.789	1.00	20.00	C
ATOM	272	CA	PRO	37	16.405	3.029	28.549	1.00	20.00	C
ATOM	273	CB	PRO	37	15.984	1.571	28.770	1.00	20.00	C
ATOM	274	CG	PRO	37	16.886	1.118	29.833	1.00	20.00	C
ATOM	275	C	PRO	37	15.244	3.836	27.971	1.00	20.00	C
ATOM	276	O	PRO	37	15.143	4.007	26.754	1.00	20.00	O
ATOM	277	N	THR	38	14.359	4.333	28.834	1.00	20.00	N
ATOM	278	CA	THR	38	13.209	5.091	28.356	1.00	20.00	C
ATOM	279	CB	THR	38	12.213	5.407	29.490	1.00	20.00	C

ATOM	280	OG1	THR	38	12.878	6.150	30.512	1.00	20.00	O
ATOM	281	CG2	THR	38	11.654	4.121	30.078	1.00	20.00	C
ATOM	282	C	THR	38	13.598	6.372	27.622	1.00	20.00	C
ATOM	283	O	THR	38	12.823	6.876	26.811	1.00	20.00	O
ATOM	284	N	THR	39	14.800	6.887	27.877	1.00	20.00	N
ATOM	285	CA	THR	39	15.253	8.114	27.206	1.00	20.00	C
ATOM	286	CB	THR	39	16.546	8.689	27.841	1.00	20.00	C
ATOM	287	OG1	THR	39	17.596	7.713	27.775	1.00	20.00	O
ATOM	288	CG2	THR	39	16.300	9.057	29.302	1.00	20.00	C
ATOM	289	C	THR	39	15.494	7.880	25.716	1.00	20.00	C
ATOM	290	O	THR	39	15.494	8.828	24.929	1.00	20.00	O
ATOM	291	N	LYS	40	15.666	6.616	25.331	1.00	20.00	N
ATOM	292	CA	LYS	40	15.886	6.271	23.933	1.00	20.00	C
ATOM	293	CB	LYS	40	16.349	4.811	23.794	1.00	20.00	C
ATOM	294	CG	LYS	40	17.714	4.536	24.419	1.00	20.00	C
ATOM	295	CD	LYS	40	18.198	3.117	24.149	1.00	20.00	C
ATOM	296	CE	LYS	40	17.246	2.075	24.716	1.00	20.00	C
ATOM	297	NZ	LYS	40	17.756	0.694	24.475	1.00	20.00	N
ATOM	298	C	LYS	40	14.621	6.517	23.091	1.00	20.00	C
ATOM	299	O	LYS	40	14.698	6.587	21.863	1.00	20.00	O
ATOM	300	N	THR	41	13.466	6.667	23.744	1.00	20.00	N
ATOM	301	CA	THR	41	12.220	6.907	23.024	1.00	20.00	C
ATOM	302	CB	THR	41	10.975	6.896	23.942	1.00	20.00	C
ATOM	303	OG1	THR	41	11.096	7.923	24.934	1.00	20.00	O
ATOM	304	CG2	THR	41	10.794	5.537	24.610	1.00	20.00	C
ATOM	305	C	THR	41	12.282	8.240	22.302	1.00	20.00	C
ATOM	306	O	THR	41	11.480	8.484	21.402	1.00	20.00	O
ATOM	307	N	TYR	42	13.230	9.099	22.687	1.00	20.00	N
ATOM	308	CA	TYR	42	13.396	10.409	22.039	1.00	20.00	C
ATOM	309	CB	TYR	42	13.833	11.473	23.053	1.00	20.00	C
ATOM	310	CG	TYR	42	12.768	11.781	24.081	1.00	20.00	C
ATOM	311	CD1	TYR	42	11.717	12.645	23.781	1.00	20.00	C
ATOM	312	CE1	TYR	42	10.687	12.881	24.697	1.00	20.00	C
ATOM	313	CD2	TYR	42	12.776	11.161	25.333	1.00	20.00	C
ATOM	314	CE2	TYR	42	11.751	11.390	26.256	1.00	20.00	C
ATOM	315	CZ	TYR	42	10.712	12.252	25.929	1.00	20.00	C
ATOM	316	OH	TYR	42	9.693	12.483	26.821	1.00	20.00	O
ATOM	317	C	TYR	42	14.391	10.385	20.867	1.00	20.00	C
ATOM	318	O	TYR	42	14.507	11.366	20.124	1.00	20.00	O
ATOM	319	N	PHE	43	15.095	9.265	20.690	1.00	20.00	N
ATOM	320	CA	PHE	43	16.081	9.132	19.619	1.00	20.00	C
ATOM	321	CB	PHE	43	17.500	9.073	20.207	1.00	20.00	C
ATOM	322	CG	PHE	43	17.894	10.310	20.986	1.00	20.00	C
ATOM	323	CD1	PHE	43	17.553	10.442	22.338	1.00	20.00	C
ATOM	324	CD2	PHE	43	18.609	11.340	20.371	1.00	20.00	C
ATOM	325	CE1	PHE	43	17.922	11.583	23.068	1.00	20.00	C
ATOM	326	CE2	PHE	43	18.986	12.488	21.090	1.00	20.00	C
ATOM	327	CZ	PHE	43	18.640	12.609	22.442	1.00	20.00	C
ATOM	328	C	PHE	43	15.843	7.902	18.747	1.00	20.00	C
ATOM	329	O	PHE	43	16.771	7.155	18.465	1.00	20.00	O
ATOM	330	N	PRO	44	14.604	7.704	18.253	1.00	20.00	N
ATOM	331	CD	PRO	44	13.367	8.509	18.360	1.00	20.00	C
ATOM	332	CA	PRO	44	14.397	6.512	17.415	1.00	20.00	C
ATOM	333	CB	PRO	44	12.880	6.433	17.335	1.00	20.00	C
ATOM	334	CG	PRO	44	12.478	7.905	17.311	1.00	20.00	C
ATOM	335	C	PRO	44	15.037	6.681	16.022	1.00	20.00	C
ATOM	336	O	PRO	44	15.276	5.714	15.304	1.00	20.00	O

ATOM	337	N	HIS	45	15.352	7.920	15.672	1.00	20.00	N
ATOM	338	CA	HIS	45	15.956	8.243	14.383	1.00	20.00	C
ATOM	339	CB	HIS	45	15.462	9.624	13.942	1.00	20.00	C
ATOM	340	CG	HIS	45	15.822	10.724	14.894	1.00	20.00	C
ATOM	341	CD2	HIS	45	16.566	11.841	14.725	1.00	20.00	C
ATOM	342	ND1	HIS	45	15.403	10.741	16.207	1.00	20.00	N
ATOM	343	CE1	HIS	45	15.875	11.820	16.807	1.00	20.00	C
ATOM	344	NE2	HIS	45	16.583	12.503	15.926	1.00	20.00	N
ATOM	345	C	HIS	45	17.492	8.246	14.414	1.00	20.00	C
ATOM	346	O	HIS	45	18.138	8.712	13.471	1.00	20.00	O
ATOM	347	N	PHE	46	18.074	7.778	15.511	1.00	20.00	N
ATOM	348	CA	PHE	46	19.515	7.768	15.660	1.00	20.00	C
ATOM	349	CB	PHE	46	19.905	8.385	17.017	1.00	20.00	C
ATOM	350	CG	PHE	46	20.289	9.835	16.971	1.00	20.00	C
ATOM	351	CD1	PHE	46	21.226	10.334	17.881	1.00	20.00	C
ATOM	352	CD2	PHE	46	19.692	10.716	16.078	1.00	20.00	C
ATOM	353	CE1	PHE	46	21.564	11.692	17.910	1.00	20.00	C
ATOM	354	CE2	PHE	46	20.025	12.084	16.096	1.00	20.00	C
ATOM	355	CZ	PHE	46	20.964	12.568	17.019	1.00	20.00	C
ATOM	356	C	PHE	46	20.044	6.348	15.671	1.00	20.00	C
ATOM	357	O	PHE	46	19.361	5.419	16.112	1.00	20.00	O
ATOM	358	N	ASP	47	21.282	6.190	15.216	1.00	20.00	N
ATOM	359	CA	ASP	47	21.955	4.905	15.294	1.00	20.00	C
ATOM	360	CB	ASP	47	23.081	4.808	14.264	1.00	20.00	C
ATOM	361	CG	ASP	47	23.974	3.593	14.479	1.00	20.00	C
ATOM	362	OD1	ASP	47	23.531	2.608	15.097	1.00	20.00	O
ATOM	363	OD2	ASP	47	25.134	3.624	14.024	1.00	20.00	O
ATOM	364	C	ASP	47	22.559	5.092	16.682	1.00	20.00	C
ATOM	365	O	ASP	47	23.418	5.951	16.869	1.00	20.00	O
ATOM	366	N	LEU	48	22.037	4.373	17.668	1.00	20.00	N
ATOM	367	CA	LEU	48	22.524	4.514	19.033	1.00	20.00	C
ATOM	368	CB	LEU	48	21.361	4.438	20.032	1.00	20.00	C
ATOM	369	CG	LEU	48	20.252	5.489	19.929	1.00	20.00	C
ATOM	370	CD1	LEU	48	19.217	5.248	21.020	1.00	20.00	C
ATOM	371	CD2	LEU	48	20.827	6.879	20.060	1.00	20.00	C
ATOM	372	C	LEU	48	23.629	3.544	19.448	1.00	20.00	C
ATOM	373	O	LEU	48	23.894	3.398	20.646	1.00	20.00	O
ATOM	374	N	SER	49	24.274	2.885	18.483	1.00	20.00	N
ATOM	375	CA	SER	49	25.351	1.960	18.823	1.00	20.00	C
ATOM	376	CB	SER	49	25.656	1.003	17.667	1.00	20.00	C
ATOM	377	OG	SER	49	25.867	1.708	16.464	1.00	20.00	O
ATOM	378	C	SER	49	26.595	2.735	19.287	1.00	20.00	C
ATOM	379	O	SER	49	26.776	3.925	18.969	1.00	20.00	O
ATOM	380	N	HIS	50	27.421	2.079	20.093	1.00	20.00	N
ATOM	381	CA	HIS	50	28.612	2.719	20.630	1.00	20.00	C
ATOM	382	CB	HIS	50	29.431	1.730	21.472	1.00	20.00	C
ATOM	383	CG	HIS	50	30.741	2.284	21.944	1.00	20.00	C
ATOM	384	CD2	HIS	50	32.002	2.102	21.489	1.00	20.00	C
ATOM	385	ND1	HIS	50	30.834	3.201	22.970	1.00	20.00	N
ATOM	386	CE1	HIS	50	32.096	3.566	23.121	1.00	20.00	C
ATOM	387	NE2	HIS	50	32.824	2.913	22.232	1.00	20.00	N
ATOM	388	C	HIS	50	29.503	3.345	19.571	1.00	20.00	C
ATOM	389	O	HIS	50	29.945	2.674	18.651	1.00	20.00	O
ATOM	390	N	GLY	51	29.785	4.628	19.736	1.00	20.00	N
ATOM	391	CA	GLY	51	30.651	5.336	18.817	1.00	20.00	C
ATOM	392	C	GLY	51	29.991	5.866	17.560	1.00	20.00	C
ATOM	393	O	GLY	51	30.683	6.421	16.706	1.00	20.00	O

ATOM	394	N	SER	52	28.670	5.748	17.445	1.00	20.00	N
ATOM	395	CA	SER	52	27.992	6.238	16.247	1.00	20.00	C
ATOM	396	CB	SER	52	26.482	6.011	16.335	1.00	20.00	C
ATOM	397	OG	SER	52	25.843	7.076	17.002	1.00	20.00	O
ATOM	398	C	SER	52	28.289	7.716	16.038	1.00	20.00	C
ATOM	399	O	SER	52	28.473	8.467	17.004	1.00	20.00	O
ATOM	400	N	ALA	53	28.335	8.133	14.776	1.00	20.00	N
ATOM	401	CA	ALA	53	28.613	9.527	14.444	1.00	20.00	C
ATOM	402	CB	ALA	53	28.757	9.705	12.923	1.00	20.00	C
ATOM	403	C	ALA	53	27.532	10.452	14.977	1.00	20.00	C
ATOM	404	O	ALA	53	27.829	11.574	15.382	1.00	20.00	O
ATOM	405	N	GLN	54	26.282	9.990	14.942	1.00	20.00	N
ATOM	406	CA	GLN	54	25.144	10.777	15.427	1.00	20.00	C
ATOM	407	CB	GLN	54	23.826	10.082	15.098	1.00	20.00	C
ATOM	408	CG	GLN	54	23.451	10.130	13.632	1.00	20.00	C
ATOM	409	CD	GLN	54	22.502	9.012	13.261	1.00	20.00	C
ATOM	410	OE1	GLN	54	22.764	7.850	13.542	1.00	20.00	O
ATOM	411	NE2	GLN	54	21.396	9.357	12.622	1.00	20.00	N
ATOM	412	C	GLN	54	25.223	11.052	16.933	1.00	20.00	C
ATOM	413	O	GLN	54	24.901	12.158	17.376	1.00	20.00	O
ATOM	414	N	VAL	55	25.657	10.061	17.714	1.00	20.00	N
ATOM	415	CA	VAL	55	25.795	10.248	19.159	1.00	20.00	C
ATOM	416	CB	VAL	55	25.963	8.909	19.898	1.00	20.00	C
ATOM	417	CG1	VAL	55	26.347	9.156	21.373	1.00	20.00	C
ATOM	418	CG2	VAL	55	24.661	8.119	19.812	1.00	20.00	C
ATOM	419	C	VAL	55	26.968	11.176	19.465	1.00	20.00	C
ATOM	420	O	VAL	55	26.855	12.063	20.310	1.00	20.00	O
ATOM	421	N	LYS	56	28.093	10.967	18.786	1.00	20.00	N
ATOM	422	CA	LYS	56	29.253	11.821	18.978	1.00	20.00	C
ATOM	423	CB	LYS	56	30.453	11.300	18.191	1.00	20.00	C
ATOM	424	CG	LYS	56	31.038	10.065	18.799	1.00	20.00	C
ATOM	425	CD	LYS	56	32.292	9.659	18.077	1.00	20.00	C
ATOM	426	CE	LYS	56	32.925	8.438	18.730	1.00	20.00	C
ATOM	427	NZ	LYS	56	34.140	8.005	17.984	1.00	20.00	N
ATOM	428	C	LYS	56	28.930	13.256	18.571	1.00	20.00	C
ATOM	429	O	LYS	56	29.334	14.213	19.245	1.00	20.00	O
ATOM	430	N	GLY	57	28.188	13.408	17.478	1.00	20.00	N
ATOM	431	CA	GLY	57	27.825	14.738	17.021	1.00	20.00	C
ATOM	432	C	GLY	57	26.875	15.409	17.994	1.00	20.00	C
ATOM	433	O	GLY	57	27.026	16.591	18.315	1.00	20.00	O
ATOM	434	N	HIS	58	25.890	14.659	18.478	1.00	20.00	N
ATOM	435	CA	HIS	58	24.941	15.231	19.425	1.00	20.00	C
ATOM	436	CB	HIS	58	23.762	14.285	19.681	1.00	20.00	C
ATOM	437	CG	HIS	58	22.643	14.924	20.442	1.00	20.00	C
ATOM	438	CD2	HIS	58	22.085	14.617	21.638	1.00	20.00	C
ATOM	439	ND1	HIS	58	22.014	16.076	20.014	1.00	20.00	N
ATOM	440	CE1	HIS	58	21.127	16.454	20.915	1.00	20.00	C
ATOM	441	NE2	HIS	58	21.151	15.586	21.910	1.00	20.00	N
ATOM	442	C	HIS	58	25.651	15.599	20.736	1.00	20.00	C
ATOM	443	O	HIS	58	25.391	16.668	21.311	1.00	20.00	O
ATOM	444	N	GLY	59	26.560	14.735	21.184	1.00	20.00	N
ATOM	445	CA	GLY	59	27.308	14.997	22.403	1.00	20.00	C
ATOM	446	C	GLY	59	28.073	16.303	22.307	1.00	20.00	C
ATOM	447	O	GLY	59	28.169	17.060	23.276	1.00	20.00	O
ATOM	448	N	LYS	60	28.592	16.592	21.121	1.00	20.00	N
ATOM	449	CA	LYS	60	29.339	17.827	20.904	1.00	20.00	C
ATOM	450	CB	LYS	60	30.074	17.787	19.559	1.00	20.00	C

ATOM	451	CG	LYS	60	30.929	19.010	19.297	1.00	20.00	C
ATOM	452	CD	LYS	60	31.585	18.959	17.921	1.00	20.00	C
ATOM	453	CE	LYS	60	32.819	18.044	17.896	1.00	20.00	C
ATOM	454	NZ	LYS	60	33.556	18.117	16.584	1.00	20.00	N
ATOM	455	C	LYS	60	28.426	19.056	20.983	1.00	20.00	C
ATOM	456	O	LYS	60	28.796	20.075	21.576	1.00	20.00	O
ATOM	457	N	LYS	61	27.222	18.946	20.430	1.00	20.00	N
ATOM	458	CA	LYS	61	26.266	20.052	20.462	1.00	20.00	C
ATOM	459	CB	LYS	61	25.037	19.743	19.615	1.00	20.00	C
ATOM	460	CG	LYS	61	25.286	19.761	18.119	1.00	20.00	C
ATOM	461	CD	LYS	61	24.019	19.371	17.402	1.00	20.00	C
ATOM	462	CE	LYS	61	24.221	19.259	15.915	1.00	20.00	C
ATOM	463	NZ	LYS	61	22.975	18.772	15.254	1.00	20.00	N
ATOM	464	C	LYS	61	25.827	20.321	21.886	1.00	20.00	C
ATOM	465	O	LYS	61	25.699	21.476	22.297	1.00	20.00	O
ATOM	466	N	VAL	62	25.584	19.250	22.634	1.00	20.00	N
ATOM	467	CA	VAL	62	25.163	19.377	24.024	1.00	20.00	C
ATOM	468	CB	VAL	62	24.768	17.995	24.617	1.00	20.00	C
ATOM	469	CG1	VAL	62	24.522	18.099	26.130	1.00	20.00	C
ATOM	470	CG2	VAL	62	23.505	17.489	23.924	1.00	20.00	C
ATOM	471	C	VAL	62	26.264	20.065	24.847	1.00	20.00	C
ATOM	472	O	VAL	62	25.996	21.053	25.548	1.00	20.00	O
ATOM	473	N	ALA	63	27.501	19.587	24.701	1.00	20.00	N
ATOM	474	CA	ALA	63	28.651	20.158	25.400	1.00	20.00	C
ATOM	475	CB	ALA	63	29.897	19.349	25.104	1.00	20.00	C
ATOM	476	C	ALA	63	28.876	21.625	25.032	1.00	20.00	C
ATOM	477	O	ALA	63	29.171	22.445	25.907	1.00	20.00	O
ATOM	478	N	ASP	64	28.741	21.965	23.748	1.00	20.00	N
ATOM	479	CA	ASP	64	28.924	23.348	23.319	1.00	20.00	C
ATOM	480	CB	ASP	64	28.804	23.487	21.800	1.00	20.00	C
ATOM	481	CG	ASP	64	30.074	23.066	21.058	1.00	20.00	C
ATOM	482	OD1	ASP	64	31.038	22.597	21.698	1.00	20.00	O
ATOM	483	OD2	ASP	64	30.097	23.201	19.814	1.00	20.00	O
ATOM	484	C	ASP	64	27.907	24.257	23.985	1.00	20.00	C
ATOM	485	O	ASP	64	28.241	25.369	24.394	1.00	20.00	O
ATOM	486	N	ALA	65	26.658	23.796	24.067	1.00	20.00	N
ATOM	487	CA	ALA	65	25.592	24.571	24.708	1.00	20.00	C
ATOM	488	CB	ALA	65	24.255	23.867	24.540	1.00	20.00	C
ATOM	489	C	ALA	65	25.919	24.783	26.203	1.00	20.00	C
ATOM	490	O	ALA	65	25.711	25.862	26.747	1.00	20.00	O
ATOM	491	N	LEU	66	26.475	23.755	26.840	1.00	20.00	N
ATOM	492	CA	LEU	66	26.877	23.815	28.246	1.00	20.00	C
ATOM	493	CB	LEU	66	27.346	22.433	28.705	1.00	20.00	C
ATOM	494	CG	LEU	66	26.446	21.606	29.632	1.00	20.00	C
ATOM	495	CD1	LEU	66	24.998	21.970	29.453	1.00	20.00	C
ATOM	496	CD2	LEU	66	26.680	20.118	29.438	1.00	20.00	C
ATOM	497	C	LEU	66	27.994	24.846	28.417	1.00	20.00	C
ATOM	498	O	LEU	66	27.968	25.658	29.348	1.00	20.00	O
ATOM	499	N	THR	67	28.955	24.830	27.493	1.00	20.00	N
ATOM	500	CA	THR	67	30.074	25.767	27.499	1.00	20.00	C
ATOM	501	CB	THR	67	31.014	25.470	26.335	1.00	20.00	C
ATOM	502	OG1	THR	67	31.567	24.160	26.502	1.00	20.00	O
ATOM	503	CG2	THR	67	32.134	26.508	26.261	1.00	20.00	C
ATOM	504	C	THR	67	29.558	27.199	27.355	1.00	20.00	C
ATOM	505	O	THR	67	30.054	28.132	27.993	1.00	20.00	O
ATOM	506	N	ASN	68	28.568	27.367	26.492	1.00	20.00	N
ATOM	507	CA	ASN	68	27.955	28.666	26.268	1.00	20.00	C

ATOM	508	CB	ASN	68	26.945	28.537	25.116	1.00	20.00	C
ATOM	509	CG	ASN	68	26.099	29.781	24.923	1.00	20.00	C
ATOM	510	OD1	ASN	68	26.584	30.906	25.029	1.00	20.00	O
ATOM	511	ND2	ASN	68	24.829	29.580	24.607	1.00	20.00	N
ATOM	512	C	ASN	68	27.267	29.117	27.574	1.00	20.00	C
ATOM	513	O	ASN	68	27.361	30.291	27.983	1.00	20.00	O
ATOM	514	N	ALA	69	26.614	28.173	28.253	1.00	20.00	N
ATOM	515	CA	ALA	69	25.931	28.491	29.496	1.00	20.00	C
ATOM	516	CB	ALA	69	25.039	27.338	29.939	1.00	20.00	C
ATOM	517	C	ALA	69	26.921	28.882	30.591	1.00	20.00	C
ATOM	518	O	ALA	69	26.652	29.807	31.342	1.00	20.00	O
ATOM	519	N	VAL	70	28.057	28.194	30.681	1.00	20.00	N
ATOM	520	CA	VAL	70	29.086	28.530	31.681	1.00	20.00	C
ATOM	521	CB	VAL	70	30.257	27.504	31.646	1.00	20.00	C
ATOM	522	CG1	VAL	70	31.417	27.960	32.523	1.00	20.00	C
ATOM	523	CG2	VAL	70	29.764	26.143	32.097	1.00	20.00	C
ATOM	524	C	VAL	70	29.639	29.950	31.417	1.00	20.00	C
ATOM	525	O	VAL	70	29.810	30.752	32.342	1.00	20.00	O
ATOM	526	N	ALA	71	29.854	30.268	30.142	1.00	20.00	N
ATOM	527	CA	ALA	71	30.376	31.568	29.728	1.00	20.00	C
ATOM	528	CB	ALA	71	30.745	31.550	28.245	1.00	20.00	C
ATOM	529	C	ALA	71	29.395	32.689	29.994	1.00	20.00	C
ATOM	530	O	ALA	71	29.792	33.846	30.056	1.00	20.00	O
ATOM	531	N	HIS	72	28.109	32.358	30.087	1.00	20.00	N
ATOM	532	CA	HIS	72	27.075	33.364	30.337	1.00	20.00	C
ATOM	533	CB	HIS	72	26.170	33.533	29.111	1.00	20.00	C
ATOM	534	CG	HIS	72	26.915	33.871	27.861	1.00	20.00	C
ATOM	535	CD2	HIS	72	27.403	33.081	26.874	1.00	20.00	C
ATOM	536	ND1	HIS	72	27.301	35.157	27.548	1.00	20.00	N
ATOM	537	CE1	HIS	72	28.001	35.144	26.428	1.00	20.00	C
ATOM	538	NE2	HIS	72	28.076	33.897	25.998	1.00	20.00	N
ATOM	539	C	HIS	72	26.239	32.959	31.529	1.00	20.00	C
ATOM	540	O	HIS	72	25.023	33.139	31.538	1.00	20.00	O
ATOM	541	N	VAL	73	26.912	32.460	32.558	1.00	20.00	N
ATOM	542	CA	VAL	73	26.248	32.001	33.768	1.00	20.00	C
ATOM	543	CB	VAL	73	27.278	31.426	34.780	1.00	20.00	C
ATOM	544	CG1	VAL	73	28.155	32.538	35.362	1.00	20.00	C
ATOM	545	CG2	VAL	73	26.573	30.656	35.871	1.00	20.00	C
ATOM	546	C	VAL	73	25.382	33.077	34.420	1.00	20.00	C
ATOM	547	O	VAL	73	24.354	32.768	35.018	1.00	20.00	O
ATOM	548	N	ASP	74	25.769	34.341	34.266	1.00	20.00	N
ATOM	549	CA	ASP	74	25.017	35.452	34.847	1.00	20.00	C
ATOM	550	CB	ASP	74	25.901	36.709	34.961	1.00	20.00	C
ATOM	551	CG	ASP	74	27.063	36.539	35.947	1.00	20.00	C
ATOM	552	OD1	ASP	74	26.811	36.299	37.149	1.00	20.00	O
ATOM	553	OD2	ASP	74	28.235	36.661	35.518	1.00	20.00	O
ATOM	554	C	ASP	74	23.780	35.795	34.025	1.00	20.00	C
ATOM	555	O	ASP	74	22.857	36.434	34.519	1.00	20.00	O
ATOM	556	N	ASP	75	23.734	35.304	32.793	1.00	20.00	N
ATOM	557	CA	ASP	75	22.639	35.619	31.897	1.00	20.00	C
ATOM	558	CB	ASP	75	23.144	36.703	30.936	1.00	20.00	C
ATOM	559	CG	ASP	75	22.031	37.420	30.208	1.00	20.00	C
ATOM	560	OD1	ASP	75	21.014	37.778	30.848	1.00	20.00	O
ATOM	561	OD2	ASP	75	22.197	37.646	28.990	1.00	20.00	O
ATOM	562	C	ASP	75	22.169	34.375	31.128	1.00	20.00	C
ATOM	563	O	ASP	75	21.971	34.420	29.911	1.00	20.00	O
ATOM	564	N	MET	76	21.954	33.277	31.843	1.00	20.00	N

ATOM	565	CA	MET	76	21.518	32.032	31.214	1.00	20.00	C
ATOM	566	CB	MET	76	21.492	30.876	32.220	1.00	20.00	C
ATOM	567	CG	MET	76	22.788	30.112	32.328	1.00	20.00	C
ATOM	568	SD	MET	76	22.550	28.621	33.290	1.00	20.00	S
ATOM	569	CE	MET	76	22.921	29.199	34.873	1.00	20.00	C
ATOM	570	C	MET	76	20.189	32.066	30.435	1.00	20.00	C
ATOM	571	O	MET	76	20.107	31.495	29.352	1.00	20.00	O
ATOM	572	N	PRO	77	19.126	32.694	30.979	1.00	20.00	N
ATOM	573	CD	PRO	77	18.930	33.261	32.330	1.00	20.00	C
ATOM	574	CA	PRO	77	17.866	32.704	30.214	1.00	20.00	C
ATOM	575	CB	PRO	77	16.980	33.637	31.052	1.00	20.00	C
ATOM	576	CG	PRO	77	17.414	33.281	32.453	1.00	20.00	C
ATOM	577	C	PRO	77	18.072	33.203	28.794	1.00	20.00	C
ATOM	578	O	PRO	77	17.593	32.630	27.803	1.00	20.00	O
ATOM	579	N	ASN	78	18.888	34.232	28.732	1.00	20.00	N
ATOM	580	CA	ASN	78	19.253	34.898	27.542	1.00	20.00	C
ATOM	581	CB	ASN	78	19.650	36.361	27.823	1.00	20.00	C
ATOM	582	CG	ASN	78	18.849	37.223	27.134	1.00	20.00	C
ATOM	583	OD1	ASN	78	17.916	36.595	26.369	1.00	20.00	O
ATOM	584	ND2	ASN	78	18.745	38.521	27.402	1.00	20.00	N
ATOM	585	C	ASN	78	20.097	34.071	26.541	1.00	20.00	C
ATOM	586	O	ASN	78	19.750	33.822	25.362	1.00	20.00	O
ATOM	587	N	ALA	79	21.157	33.510	27.116	1.00	20.00	N
ATOM	588	CA	ALA	79	22.071	32.692	26.390	1.00	20.00	C
ATOM	589	CB	ALA	79	23.231	32.336	27.303	1.00	20.00	C
ATOM	590	C	ALA	79	21.442	31.426	25.811	1.00	20.00	C
ATOM	591	O	ALA	79	21.815	31.017	24.721	1.00	20.00	O
ATOM	592	N	LEU	80	20.515	30.803	26.537	1.00	20.00	N
ATOM	593	CA	LEU	80	19.875	29.569	26.082	1.00	20.00	C
ATOM	594	CB	LEU	80	19.755	28.590	27.254	1.00	20.00	C
ATOM	595	CG	LEU	80	21.072	28.177	27.911	1.00	20.00	C
ATOM	596	CD1	LEU	80	20.825	27.217	29.075	1.00	20.00	C
ATOM	597	CD2	LEU	80	21.971	27.549	26.859	1.00	20.00	C
ATOM	598	C	LEU	80	18.493	29.761	25.442	1.00	20.00	C
ATOM	599	O	LEU	80	17.805	28.784	25.147	1.00	20.00	O
ATOM	600	N	SER	81	18.120	31.007	25.173	1.00	20.00	N
ATOM	601	CA	SER	81	16.820	31.345	24.604	1.00	20.00	C
ATOM	602	CB	SER	81	16.807	32.815	24.185	1.00	20.00	C
ATOM	603	OG	SER	81	15.476	33.255	23.980	1.00	20.00	O
ATOM	604	C	SER	81	16.377	30.473	23.428	1.00	20.00	C
ATOM	605	O	SER	81	15.256	29.928	23.421	1.00	20.00	O
ATOM	606	N	ALA	82	17.255	30.334	22.438	1.00	20.00	N
ATOM	607	CA	ALA	82	16.940	29.541	21.258	1.00	20.00	C
ATOM	608	CB	ALA	82	18.041	29.656	20.224	1.00	20.00	C
ATOM	609	C	ALA	82	16.716	28.090	21.626	1.00	20.00	C
ATOM	610	O	ALA	82	15.819	27.453	21.075	1.00	20.00	O
ATOM	611	N	LEU	83	17.526	27.564	22.547	1.00	20.00	N
ATOM	612	CA	LEU	83	17.381	26.168	22.966	1.00	20.00	C
ATOM	613	CB	LEU	83	18.590	25.682	23.767	1.00	20.00	C
ATOM	614	CG	LEU	83	19.839	25.316	22.962	1.00	20.00	C
ATOM	615	CD1	LEU	83	20.893	24.724	23.907	1.00	20.00	C
ATOM	616	CD2	LEU	83	19.484	24.313	21.858	1.00	20.00	C
ATOM	617	C	LEU	83	16.098	25.926	23.751	1.00	20.00	C
ATOM	618	O	LEU	83	15.495	24.861	23.613	1.00	20.00	O
ATOM	619	N	SER	84	15.690	26.898	24.573	1.00	20.00	N
ATOM	620	CA	SER	84	14.444	26.784	25.349	1.00	20.00	C
ATOM	621	CB	SER	84	14.192	28.021	26.211	1.00	20.00	C

ATOM	622	OG	SER	84	15.306	28.320	27.009	1.00	20.00	O
ATOM	623	C	SER	84	13.283	26.669	24.382	1.00	20.00	C
ATOM	624	O	SER	84	12.405	25.836	24.570	1.00	20.00	O
ATOM	625	N	ASP	85	13.253	27.544	23.376	1.00	20.00	N
ATOM	626	CA	ASP	85	12.185	27.511	22.378	1.00	20.00	C
ATOM	627	CB	ASP	85	12.352	28.622	21.344	1.00	20.00	C
ATOM	628	CG	ASP	85	12.026	29.994	21.905	1.00	20.00	C
ATOM	629	OD1	ASP	85	10.950	30.159	22.529	1.00	20.00	O
ATOM	630	OD2	ASP	85	12.844	30.917	21.703	1.00	20.00	O
ATOM	631	C	ASP	85	12.149	26.169	21.673	1.00	20.00	C
ATOM	632	O	ASP	85	11.082	25.578	21.520	1.00	20.00	O
ATOM	633	N	LEU	86	13.320	25.682	21.267	1.00	20.00	N
ATOM	634	CA	LEU	86	13.430	24.400	20.579	1.00	20.00	C
ATOM	635	CB	LEU	86	14.895	24.136	20.191	1.00	20.00	C
ATOM	636	CG	LEU	86	15.214	22.802	19.511	1.00	20.00	C
ATOM	637	CD1	LEU	86	14.579	22.747	18.121	1.00	20.00	C
ATOM	638	CD2	LEU	86	16.718	22.615	19.409	1.00	20.00	C
ATOM	639	C	LEU	86	12.894	23.224	21.407	1.00	20.00	C
ATOM	640	O	LEU	86	12.127	22.386	20.899	1.00	20.00	O
ATOM	641	N	HIS	87	13.295	23.143	22.676	1.00	20.00	N
ATOM	642	CA	HIS	87	12.830	22.036	23.505	1.00	20.00	C
ATOM	643	CB	HIS	87	13.725	21.835	24.737	1.00	20.00	C
ATOM	644	CG	HIS	87	15.082	21.289	24.406	1.00	20.00	C
ATOM	645	ND1	HIS	87	16.107	22.041	23.872	1.00	20.00	N
ATOM	646	CD2	HIS	87	15.566	20.024	24.490	1.00	20.00	C
ATOM	647	NE2	HIS	87	16.881	19.997	24.002	1.00	20.00	N
ATOM	648	CE1	HIS	87	17.152	21.235	23.645	1.00	20.00	C
ATOM	649	C	HIS	87	11.362	22.216	23.876	1.00	20.00	C
ATOM	650	O	HIS	87	10.607	21.254	23.862	1.00	20.00	O
ATOM	651	N	ALA	88	10.935	23.457	24.089	1.00	20.00	N
ATOM	652	CA	ALA	88	9.550	23.718	24.459	1.00	20.00	C
ATOM	653	CB	ALA	88	9.391	25.138	24.975	1.00	20.00	C
ATOM	654	C	ALA	88	8.562	23.492	23.326	1.00	20.00	C
ATOM	655	O	ALA	88	7.517	22.870	23.522	1.00	20.00	O
ATOM	656	N	HIS	89	8.914	23.957	22.131	1.00	20.00	N
ATOM	657	CA	HIS	89	8.004	23.888	20.997	1.00	20.00	C
ATOM	658	CB	HIS	89	7.996	25.241	20.295	1.00	20.00	C
ATOM	659	CG	HIS	89	7.669	26.379	21.211	1.00	20.00	C
ATOM	660	CD2	HIS	89	8.224	27.609	21.343	1.00	20.00	C
ATOM	661	ND1	HIS	89	6.655	26.313	22.144	1.00	20.00	N
ATOM	662	CE1	HIS	89	6.596	27.451	22.809	1.00	20.00	C
ATOM	663	NE2	HIS	89	7.537	28.255	22.344	1.00	20.00	N
ATOM	664	C	HIS	89	8.153	22.783	19.973	1.00	20.00	C
ATOM	665	O	HIS	89	7.185	22.455	19.294	1.00	20.00	O
ATOM	666	N	LYS	90	9.346	22.214	19.849	1.00	20.00	N
ATOM	667	CA	LYS	90	9.559	21.160	18.867	1.00	20.00	C
ATOM	668	CB	LYS	90	10.596	21.590	17.823	1.00	20.00	C
ATOM	669	CG	LYS	90	10.146	22.831	17.097	1.00	20.00	C
ATOM	670	CD	LYS	90	10.838	23.055	15.781	1.00	20.00	C
ATOM	671	CE	LYS	90	10.169	24.225	15.076	1.00	20.00	C
ATOM	672	NZ	LYS	90	8.685	23.980	14.968	1.00	20.00	N
ATOM	673	C	LYS	90	9.911	19.812	19.452	1.00	20.00	C
ATOM	674	O	LYS	90	9.187	18.843	19.242	1.00	20.00	O
ATOM	675	N	LEU	91	10.988	19.756	20.226	1.00	20.00	N
ATOM	676	CA	LEU	91	11.412	18.493	20.807	1.00	20.00	C
ATOM	677	CB	LEU	91	12.830	18.634	21.368	1.00	20.00	C
ATOM	678	CG	LEU	91	13.804	19.070	20.258	1.00	20.00	C

ATOM	679	CD1	LEU	91	15.150	19.439	20.830	1.00	20.00	C
ATOM	680	CD2	LEU	91	13.921	17.983	19.188	1.00	20.00	C
ATOM	681	C	LEU	91	10.407	17.955	21.839	1.00	20.00	C
ATOM	682	O	LEU	91	10.032	16.777	21.792	1.00	20.00	O
ATOM	683	N	ARG	92	9.952	18.829	22.732	1.00	20.00	N
ATOM	684	CA	ARG	92	8.968	18.480	23.760	1.00	20.00	C
ATOM	685	CB	ARG	92	7.580	18.339	23.126	1.00	20.00	C
ATOM	686	CG	ARG	92	7.007	19.664	22.649	1.00	20.00	C
ATOM	687	CD	ARG	92	6.864	19.664	21.156	1.00	20.00	C
ATOM	688	NE	ARG	92	5.473	19.718	20.746	1.00	20.00	N
ATOM	689	CZ	ARG	92	4.997	19.260	19.586	1.00	20.00	C
ATOM	690	NH1	ARG	92	5.794	18.688	18.680	1.00	20.00	N
ATOM	691	NH2	ARG	92	3.702	19.377	19.343	1.00	20.00	N
ATOM	692	C	ARG	92	9.336	17.251	24.604	1.00	20.00	C
ATOM	693	O	ARG	92	8.531	16.331	24.811	1.00	20.00	O
ATOM	694	N	VAL	93	10.561	17.278	25.125	1.00	20.00	N
ATOM	695	CA	VAL	93	11.097	16.214	25.965	1.00	20.00	C
ATOM	696	CB	VAL	93	12.627	16.372	26.092	1.00	20.00	C
ATOM	697	CG1	VAL	93	13.194	15.368	27.080	1.00	20.00	C
ATOM	698	CG2	VAL	93	13.275	16.215	24.717	1.00	20.00	C
ATOM	699	C	VAL	93	10.470	16.368	27.341	1.00	20.00	C
ATOM	700	O	VAL	93	10.478	17.469	27.894	1.00	20.00	O
ATOM	701	N	ASP	94	9.913	15.292	27.900	1.00	20.00	N
ATOM	702	CA	ASP	94	9.311	15.412	29.228	1.00	20.00	C
ATOM	703	CB	ASP	94	8.753	14.080	29.724	1.00	20.00	C
ATOM	704	CG	ASP	94	7.961	14.243	31.001	1.00	20.00	C
ATOM	705	OD1	ASP	94	6.726	14.422	30.924	1.00	20.00	O
ATOM	706	OD2	ASP	94	8.581	14.248	32.085	1.00	20.00	O
ATOM	707	C	ASP	94	10.397	15.926	30.183	1.00	20.00	C
ATOM	708	O	ASP	94	11.527	15.426	30.163	1.00	20.00	O
ATOM	709	N	PRO	95	10.065	16.916	31.038	1.00	20.00	N
ATOM	710	CD	PRO	95	8.754	17.592	31.137	1.00	20.00	C
ATOM	711	CA	PRO	95	11.017	17.497	31.988	1.00	20.00	C
ATOM	712	CB	PRO	95	10.137	18.411	32.833	1.00	20.00	C
ATOM	713	CG	PRO	95	9.105	18.866	31.855	1.00	20.00	C
ATOM	714	C	PRO	95	11.784	16.493	32.855	1.00	20.00	C
ATOM	715	O	PRO	95	12.951	16.727	33.179	1.00	20.00	O
ATOM	716	N	VAL	96	11.177	15.351	33.180	1.00	20.00	N
ATOM	717	CA	VAL	96	11.875	14.386	34.024	1.00	20.00	C
ATOM	718	CB	VAL	96	11.007	13.145	34.393	1.00	20.00	C
ATOM	719	CG1	VAL	96	10.795	12.247	33.187	1.00	20.00	C
ATOM	720	CG2	VAL	96	11.695	12.353	35.497	1.00	20.00	C
ATOM	721	C	VAL	96	13.197	13.922	33.418	1.00	20.00	C
ATOM	722	O	VAL	96	14.175	13.685	34.142	1.00	20.00	O
ATOM	723	N	ASN	97	13.252	13.870	32.092	1.00	20.00	N
ATOM	724	CA	ASN	97	14.451	13.407	31.397	1.00	20.00	C
ATOM	725	CB	ASN	97	14.153	13.179	29.912	1.00	20.00	C
ATOM	726	CG	ASN	97	13.095	12.103	29.697	1.00	20.00	C
ATOM	727	OD1	ASN	97	13.384	10.905	29.748	1.00	20.00	O
ATOM	728	ND2	ASN	97	11.850	12.533	29.522	1.00	20.00	N
ATOM	729	C	ASN	97	15.687	14.284	31.592	1.00	20.00	C
ATOM	730	O	ASN	97	16.817	13.785	31.488	1.00	20.00	O
ATOM	731	N	PHE	98	15.486	15.568	31.910	1.00	20.00	N
ATOM	732	CA	PHE	98	16.618	16.472	32.151	1.00	20.00	C
ATOM	733	CB	PHE	98	16.169	17.934	32.223	1.00	20.00	C
ATOM	734	CG	PHE	98	15.732	18.485	30.901	1.00	20.00	C
ATOM	735	CD1	PHE	98	16.636	19.139	30.075	1.00	20.00	C

ATOM	736	CD2	PHE	98	14.419	18.315	30.464	1.00	20.00	C
ATOM	737	CE1	PHE	98	16.244	19.605	28.819	1.00	20.00	C
ATOM	738	CE2	PHE	98	14.013	18.777	29.209	1.00	20.00	C
ATOM	739	CZ	PHE	98	14.926	19.425	28.387	1.00	20.00	C
ATOM	740	C	PHE	98	17.381	16.072	33.423	1.00	20.00	C
ATOM	741	O	PHE	98	18.610	16.186	33.484	1.00	20.00	O
ATOM	742	N	LYS	99	16.655	15.546	34.408	1.00	20.00	N
ATOM	743	CA	LYS	99	17.272	15.085	35.656	1.00	20.00	C
ATOM	744	CB	LYS	99	16.203	14.729	36.700	1.00	20.00	C
ATOM	745	CG	LYS	99	15.060	15.721	36.727	1.00	20.00	C
ATOM	746	CD	LYS	99	13.739	15.069	37.113	1.00	20.00	C
ATOM	747	CE	LYS	99	13.050	15.834	38.261	1.00	20.00	C
ATOM	748	NZ	LYS	99	13.890	15.905	39.508	1.00	20.00	N
ATOM	749	C	LYS	99	18.149	13.874	35.389	1.00	20.00	C
ATOM	750	O	LYS	99	19.202	13.721	36.007	1.00	20.00	O
ATOM	751	N	LEU	100	17.718	13.024	34.459	1.00	20.00	N
ATOM	752	CA	LEU	100	18.454	11.820	34.118	1.00	20.00	C
ATOM	753	CB	LEU	100	17.582	10.888	33.292	1.00	20.00	C
ATOM	754	CG	LEU	100	16.244	10.534	33.939	1.00	20.00	C
ATOM	755	CD1	LEU	100	15.409	9.662	32.994	1.00	20.00	C
ATOM	756	CD2	LEU	100	16.498	9.822	35.248	1.00	20.00	C
ATOM	757	C	LEU	100	19.748	12.129	33.385	1.00	20.00	C
ATOM	758	O	LEU	100	20.782	11.515	33.659	1.00	20.00	O
ATOM	759	N	LEU	101	19.691	13.081	32.454	1.00	20.00	N
ATOM	760	CA	LEU	101	20.876	13.481	31.702	1.00	20.00	C
ATOM	761	CB	LEU	101	20.503	14.449	30.581	1.00	20.00	C
ATOM	762	CG	LEU	101	21.307	14.439	29.278	1.00	20.00	C
ATOM	763	CD1	LEU	101	21.284	15.842	28.698	1.00	20.00	C
ATOM	764	CD2	LEU	101	22.733	13.970	29.440	1.00	20.00	C
ATOM	765	C	LEU	101	21.861	14.180	32.640	1.00	20.00	C
ATOM	766	O	LEU	101	23.066	13.948	32.552	1.00	20.00	O
ATOM	767	N	SER	102	21.352	15.070	33.492	1.00	20.00	N
ATOM	768	CA	SER	102	22.189	15.812	34.458	1.00	20.00	C
ATOM	769	CB	SER	102	21.323	16.725	35.341	1.00	20.00	C
ATOM	770	OG	SER	102	20.655	17.714	34.572	1.00	20.00	O
ATOM	771	C	SER	102	22.987	14.863	35.351	1.00	20.00	C
ATOM	772	O	SER	102	24.161	15.103	35.632	1.00	20.00	O
ATOM	773	N	HIS	103	22.340	13.784	35.787	1.00	20.00	N
ATOM	774	CA	HIS	103	22.982	12.790	36.633	1.00	20.00	C
ATOM	775	CB	HIS	103	21.962	11.749	37.123	1.00	20.00	C
ATOM	776	CG	HIS	103	22.568	10.642	37.931	1.00	20.00	C
ATOM	777	CD2	HIS	103	23.246	10.662	39.103	1.00	20.00	C
ATOM	778	ND1	HIS	103	22.549	9.321	37.524	1.00	20.00	N
ATOM	779	CE1	HIS	103	23.193	8.581	38.409	1.00	20.00	C
ATOM	780	NE2	HIS	103	23.624	9.371	39.376	1.00	20.00	N
ATOM	781	C	HIS	103	24.101	12.098	35.864	1.00	20.00	C
ATOM	782	O	HIS	103	25.198	11.901	36.393	1.00	20.00	O
ATOM	783	N	CYS	104	23.820	11.704	34.627	1.00	20.00	N
ATOM	784	CA	CYS	104	24.821	11.027	33.805	1.00	20.00	C
ATOM	785	CB	CYS	104	24.169	10.440	32.556	1.00	20.00	C
ATOM	786	SG	CYS	104	23.079	9.089	32.960	1.00	20.00	S
ATOM	787	C	CYS	104	26.001	11.931	33.450	1.00	20.00	C
ATOM	788	O	CYS	104	27.130	11.463	33.302	1.00	20.00	O
ATOM	789	N	LEU	105	25.736	13.226	33.314	1.00	20.00	N
ATOM	790	CA	LEU	105	26.779	14.208	33.027	1.00	20.00	C
ATOM	791	CB	LEU	105	26.135	15.569	32.758	1.00	20.00	C
ATOM	792	CG	LEU	105	26.375	16.368	31.475	1.00	20.00	C

ATOM	793	CD1	LEU	105	27.301	15.667	30.488	1.00	20.00	C
ATOM	794	CD2	LEU	105	25.018	16.657	30.857	1.00	20.00	C
ATOM	795	C	LEU	105	27.668	14.309	34.282	1.00	20.00	C
ATOM	796	O	LEU	105	28.894	14.327	34.186	1.00	20.00	O
ATOM	797	N	LEU	106	27.023	14.367	35.449	1.00	20.00	N
ATOM	798	CA	LEU	106	27.701	14.457	36.743	1.00	20.00	C
ATOM	799	CB	LEU	106	26.662	14.580	37.856	1.00	20.00	C
ATOM	800	CG	LEU	106	26.972	15.489	39.037	1.00	20.00	C
ATOM	801	CD1	LEU	106	27.313	16.913	38.591	1.00	20.00	C
ATOM	802	CD2	LEU	106	25.751	15.498	39.914	1.00	20.00	C
ATOM	803	C	LEU	106	28.570	13.214	36.956	1.00	20.00	C
ATOM	804	O	LEU	106	29.710	13.331	37.404	1.00	20.00	O
ATOM	805	N	VAL	107	28.046	12.034	36.610	1.00	20.00	N
ATOM	806	CA	VAL	107	28.806	10.783	36.729	1.00	20.00	C
ATOM	807	CB	VAL	107	27.923	9.525	36.410	1.00	20.00	C
ATOM	808	CG1	VAL	107	28.782	8.255	36.347	1.00	20.00	C
ATOM	809	CG2	VAL	107	26.848	9.340	37.479	1.00	20.00	C
ATOM	810	C	VAL	107	30.010	10.830	35.772	1.00	20.00	C
ATOM	811	O	VAL	107	31.109	10.446	36.151	1.00	20.00	O
ATOM	812	N	THR	108	29.804	11.325	34.546	1.00	20.00	N
ATOM	813	CA	THR	108	30.885	11.423	33.542	1.00	20.00	C
ATOM	814	CB	THR	108	30.345	11.920	32.154	1.00	20.00	C
ATOM	815	OG1	THR	108	29.373	10.992	31.663	1.00	20.00	O
ATOM	816	CG2	THR	108	31.460	12.017	31.142	1.00	20.00	C
ATOM	817	C	THR	108	31.997	12.344	34.054	1.00	20.00	C
ATOM	818	O	THR	108	33.170	11.984	34.015	1.00	20.00	O
ATOM	819	N	LEU	109	31.612	13.509	34.574	1.00	20.00	N
ATOM	820	CA	LEU	109	32.557	14.470	35.131	1.00	20.00	C
ATOM	821	CB	LEU	109	31.804	15.721	35.584	1.00	20.00	C
ATOM	822	CG	LEU	109	31.728	16.951	34.669	1.00	20.00	C
ATOM	823	CD1	LEU	109	32.040	16.626	33.229	1.00	20.00	C
ATOM	824	CD2	LEU	109	30.368	17.572	34.796	1.00	20.00	C
ATOM	825	C	LEU	109	33.348	13.844	36.306	1.00	20.00	C
ATOM	826	O	LEU	109	34.569	13.975	36.378	1.00	20.00	O
ATOM	827	N	ALA	110	32.654	13.129	37.196	1.00	20.00	N
ATOM	828	CA	ALA	110	33.287	12.466	38.336	1.00	20.00	C
ATOM	829	CB	ALA	110	32.235	11.733	39.149	1.00	20.00	C
ATOM	830	C	ALA	110	34.374	11.480	37.888	1.00	20.00	C
ATOM	831	O	ALA	110	35.479	11.446	38.453	1.00	20.00	O
ATOM	832	N	ALA	111	34.053	10.698	36.861	1.00	20.00	N
ATOM	833	CA	ALA	111	34.957	9.689	36.323	1.00	20.00	C
ATOM	834	CB	ALA	111	34.189	8.754	35.393	1.00	20.00	C
ATOM	835	C	ALA	111	36.185	10.247	35.604	1.00	20.00	C
ATOM	836	O	ALA	111	37.175	9.531	35.402	1.00	20.00	O
ATOM	837	N	HIS	112	36.117	11.513	35.202	1.00	20.00	N
ATOM	838	CA	HIS	112	37.211	12.151	34.473	1.00	20.00	C
ATOM	839	CB	HIS	112	36.705	12.750	33.143	1.00	20.00	C
ATOM	840	CG	HIS	112	36.335	11.728	32.112	1.00	20.00	C
ATOM	841	CD2	HIS	112	35.137	11.214	31.754	1.00	20.00	C
ATOM	842	ND1	HIS	112	37.276	11.068	31.349	1.00	20.00	N
ATOM	843	CE1	HIS	112	36.671	10.183	30.575	1.00	20.00	C
ATOM	844	NE2	HIS	112	35.374	10.249	30.805	1.00	20.00	N
ATOM	845	C	HIS	112	37.944	13.237	35.242	1.00	20.00	C
ATOM	846	O	HIS	112	39.033	13.632	34.839	1.00	20.00	O
ATOM	847	N	LEU	113	37.358	13.741	36.319	1.00	20.00	N
ATOM	848	CA	LEU	113	38.011	14.794	37.091	1.00	20.00	C
ATOM	849	CB	LEU	113	37.136	16.056	37.127	1.00	20.00	C

ATOM	850	CG	LEU	113	36.734	16.691	35.782	1.00	20.00	C
ATOM	851	CD1	LEU	113	35.875	17.930	36.034	1.00	20.00	C
ATOM	852	CD2	LEU	113	37.967	17.075	34.972	1.00	20.00	C
ATOM	853	C	LEU	113	38.317	14.328	38.508	1.00	20.00	C
ATOM	854	O	LEU	113	37.745	14.839	39.462	1.00	20.00	O
ATOM	855	N	PRO	114	39.261	13.384	38.669	1.00	20.00	N
ATOM	856	CD	PRO	114	40.124	12.715	37.682	1.00	20.00	C
ATOM	857	CA	PRO	114	39.572	12.912	40.024	1.00	20.00	C
ATOM	858	CB	PRO	114	40.692	11.888	39.791	1.00	20.00	C
ATOM	859	CG	PRO	114	41.313	12.323	38.515	1.00	20.00	C
ATOM	860	C	PRO	114	39.982	14.006	41.007	1.00	20.00	C
ATOM	861	O	PRO	114	39.444	14.074	42.105	1.00	20.00	O
ATOM	862	N	ALA	115	40.860	14.908	40.587	1.00	20.00	N
ATOM	863	CA	ALA	115	41.326	15.964	41.481	1.00	20.00	C
ATOM	864	CB	ALA	115	42.636	16.560	40.954	1.00	20.00	C
ATOM	865	C	ALA	115	40.330	17.088	41.748	1.00	20.00	C
ATOM	866	O	ALA	115	40.266	17.621	42.859	1.00	20.00	O
ATOM	867	N	GLU	116	39.516	17.418	40.752	1.00	20.00	N
ATOM	868	CA	GLU	116	38.593	18.539	40.885	1.00	20.00	C
ATOM	869	CB	GLU	116	38.436	19.255	39.533	1.00	20.00	C
ATOM	870	CG	GLU	116	39.731	19.795	38.906	1.00	20.00	C
ATOM	871	CD	GLU	116	40.637	18.710	38.296	1.00	20.00	C
ATOM	872	OE1	GLU	116	40.215	17.532	38.156	1.00	20.00	O
ATOM	873	OE2	GLU	116	41.784	19.052	37.940	1.00	20.00	O
ATOM	874	C	GLU	116	37.202	18.274	41.448	1.00	20.00	C
ATOM	875	O	GLU	116	36.523	19.218	41.857	1.00	20.00	O
ATOM	876	N	PHE	117	36.761	17.017	41.438	1.00	20.00	N
ATOM	877	CA	PHE	117	35.410	16.681	41.901	1.00	20.00	C
ATOM	878	CB	PHE	117	34.933	15.389	41.220	1.00	20.00	C
ATOM	879	CG	PHE	117	33.427	15.251	41.151	1.00	20.00	C
ATOM	880	CD1	PHE	117	32.678	16.055	40.290	1.00	20.00	C
ATOM	881	CD2	PHE	117	32.765	14.275	41.903	1.00	20.00	C
ATOM	882	CE1	PHE	117	31.286	15.903	40.182	1.00	20.00	C
ATOM	883	CE2	PHE	117	31.370	14.110	41.804	1.00	20.00	C
ATOM	884	CZ	PHE	117	30.633	14.926	40.932	1.00	20.00	C
ATOM	885	C	PHE	117	35.279	16.573	43.421	1.00	20.00	C
ATOM	886	O	PHE	117	35.017	15.492	43.952	1.00	20.00	O
ATOM	887	N	THR	118	35.460	17.697	44.111	1.00	20.00	N
ATOM	888	CA	THR	118	35.368	17.738	45.561	1.00	20.00	C
ATOM	889	CB	THR	118	36.108	18.962	46.127	1.00	20.00	C
ATOM	890	OG1	THR	118	35.557	20.153	45.556	1.00	20.00	O
ATOM	891	CG2	THR	118	37.594	18.897	45.811	1.00	20.00	C
ATOM	892	C	THR	118	33.892	17.856	45.910	1.00	20.00	C
ATOM	893	O	THR	118	33.070	18.138	45.033	1.00	20.00	O
ATOM	894	N	PRO	119	33.524	17.625	47.187	1.00	20.00	N
ATOM	895	CD	PRO	119	34.312	17.049	48.301	1.00	20.00	C
ATOM	896	CA	PRO	119	32.107	17.737	47.554	1.00	20.00	C
ATOM	897	CB	PRO	119	32.122	17.502	49.065	1.00	20.00	C
ATOM	898	CG	PRO	119	33.234	16.516	49.221	1.00	20.00	C
ATOM	899	C	PRO	119	31.502	19.095	47.194	1.00	20.00	C
ATOM	900	O	PRO	119	30.378	19.167	46.704	1.00	20.00	O
ATOM	901	N	ALA	120	32.256	20.169	47.402	1.00	20.00	N
ATOM	902	CA	ALA	120	31.754	21.502	47.095	1.00	20.00	C
ATOM	903	CB	ALA	120	32.688	22.581	47.658	1.00	20.00	C
ATOM	904	C	ALA	120	31.533	21.696	45.594	1.00	20.00	C
ATOM	905	O	ALA	120	30.536	22.284	45.193	1.00	20.00	O
ATOM	906	N	VAL	121	32.452	21.197	44.772	1.00	20.00	N

ATOM	907	CA	VAL	121	32.322	21.315	43.318	1.00	20.00	C
ATOM	908	CB	VAL	121	33.644	20.919	42.585	1.00	20.00	C
ATOM	909	CG1	VAL	121	33.448	20.909	41.063	1.00	20.00	C
ATOM	910	CG2	VAL	121	34.747	21.916	42.944	1.00	20.00	C
ATOM	911	C	VAL	121	31.143	20.459	42.843	1.00	20.00	C
ATOM	912	O	VAL	121	30.356	20.886	42.007	1.00	20.00	O
ATOM	913	N	HIS	122	31.015	19.266	43.413	1.00	20.00	N
ATOM	914	CA	HIS	122	29.925	18.331	43.118	1.00	20.00	C
ATOM	915	CB	HIS	122	30.078	17.115	44.055	1.00	20.00	C
ATOM	916	CG	HIS	122	29.019	16.059	43.922	1.00	20.00	C
ATOM	917	CD2	HIS	122	27.819	16.050	43.292	1.00	20.00	C
ATOM	918	ND1	HIS	122	29.146	14.818	44.516	1.00	20.00	N
ATOM	919	CE1	HIS	122	28.073	14.091	44.259	1.00	20.00	C
ATOM	920	NE2	HIS	122	27.252	14.816	43.518	1.00	20.00	N
ATOM	921	C	HIS	122	28.591	19.055	43.357	1.00	20.00	C
ATOM	922	O	HIS	122	27.673	18.970	42.537	1.00	20.00	O
ATOM	923	N	ALA	123	28.489	19.776	44.471	1.00	20.00	N
ATOM	924	CA	ALA	123	27.260	20.492	44.798	1.00	20.00	C
ATOM	925	CB	ALA	123	27.324	21.037	46.209	1.00	20.00	C
ATOM	926	C	ALA	123	26.999	21.615	43.808	1.00	20.00	C
ATOM	927	O	ALA	123	25.872	21.776	43.325	1.00	20.00	O
ATOM	928	N	SER	124	28.045	22.373	43.484	1.00	20.00	N
ATOM	929	CA	SER	124	27.924	23.475	42.543	1.00	20.00	C
ATOM	930	CB	SER	124	29.218	24.277	42.524	1.00	20.00	C
ATOM	931	OG	SER	124	29.432	24.886	43.782	1.00	20.00	O
ATOM	932	C	SER	124	27.563	23.007	41.121	1.00	20.00	C
ATOM	933	O	SER	124	26.747	23.633	40.440	1.00	20.00	O
ATOM	934	N	LEU	125	28.167	21.914	40.674	1.00	20.00	N
ATOM	935	CA	LEU	125	27.875	21.393	39.342	1.00	20.00	C
ATOM	936	CB	LEU	125	28.837	20.256	38.967	1.00	20.00	C
ATOM	937	CG	LEU	125	30.281	20.633	38.595	1.00	20.00	C
ATOM	938	CD1	LEU	125	31.143	19.380	38.542	1.00	20.00	C
ATOM	939	CD2	LEU	125	30.308	21.369	37.257	1.00	20.00	C
ATOM	940	C	LEU	125	26.436	20.911	39.301	1.00	20.00	C
ATOM	941	O	LEU	125	25.719	21.161	38.322	1.00	20.00	O
ATOM	942	N	ASP	126	25.997	20.264	40.381	1.00	20.00	N
ATOM	943	CA	ASP	126	24.630	19.764	40.446	1.00	20.00	C
ATOM	944	CB	ASP	126	24.407	18.905	41.693	1.00	20.00	C
ATOM	945	CG	ASP	126	23.199	17.995	41.559	1.00	20.00	C
ATOM	946	OD1	ASP	126	23.038	17.365	40.502	1.00	20.00	O
ATOM	947	OD2	ASP	126	22.406	17.904	42.507	1.00	20.00	O
ATOM	948	C	ASP	126	23.625	20.915	40.379	1.00	20.00	C
ATOM	949	O	ASP	126	22.638	20.824	39.651	1.00	20.00	O
ATOM	950	N	LYS	127	23.877	22.000	41.110	1.00	20.00	N
ATOM	951	CA	LYS	127	22.980	23.155	41.070	1.00	20.00	C
ATOM	952	CB	LYS	127	23.413	24.228	42.071	1.00	20.00	C
ATOM	953	CG	LYS	127	23.237	23.850	43.536	1.00	20.00	C
ATOM	954	CD	LYS	127	23.704	24.972	44.472	1.00	20.00	C
ATOM	955	CE	LYS	127	23.003	26.282	44.164	1.00	20.00	C
ATOM	956	NZ	LYS	127	23.382	27.344	45.152	1.00	20.00	N
ATOM	957	C	LYS	127	22.987	23.768	39.672	1.00	20.00	C
ATOM	958	O	LYS	127	21.945	24.215	39.171	1.00	20.00	O
ATOM	959	N	PHE	128	24.169	23.823	39.059	1.00	20.00	N
ATOM	960	CA	PHE	128	24.316	24.392	37.722	1.00	20.00	C
ATOM	961	CB	PHE	128	25.788	24.392	37.305	1.00	20.00	C
ATOM	962	CG	PHE	128	26.012	24.731	35.860	1.00	20.00	C
ATOM	963	CD1	PHE	128	25.754	26.018	35.387	1.00	20.00	C

ATOM	964	CD2	PHE	128	26.509	23.767	34.974	1.00	20.00	C
ATOM	965	CE1	PHE	128	25.992	26.349	34.052	1.00	20.00	C
ATOM	966	CE2	PHE	128	26.753	24.080	33.642	1.00	20.00	C
ATOM	967	CZ	PHE	128	26.491	25.379	33.177	1.00	20.00	C
ATOM	968	C	PHE	128	23.473	23.621	36.705	1.00	20.00	C
ATOM	969	O	PHE	128	22.710	24.220	35.945	1.00	20.00	O
ATOM	970	N	LEU	129	23.592	22.297	36.709	1.00	20.00	N
ATOM	971	CA	LEU	129	22.829	21.461	35.790	1.00	20.00	C
ATOM	972	CB	LEU	129	23.268	20.000	35.901	1.00	20.00	C
ATOM	973	CG	LEU	129	24.696	19.813	35.394	1.00	20.00	C
ATOM	974	CD1	LEU	129	25.208	18.420	35.676	1.00	20.00	C
ATOM	975	CD2	LEU	129	24.694	20.087	33.900	1.00	20.00	C
ATOM	976	C	LEU	129	21.335	21.594	36.044	1.00	20.00	C
ATOM	977	O	LEU	129	20.545	21.541	35.111	1.00	20.00	O
ATOM	978	N	ALA	130	20.949	21.805	37.300	1.00	20.00	N
ATOM	979	CA	ALA	130	19.534	21.969	37.631	1.00	20.00	C
ATOM	980	CB	ALA	130	19.335	21.928	39.147	1.00	20.00	C
ATOM	981	C	ALA	130	19.043	23.321	37.061	1.00	20.00	C
ATOM	982	O	ALA	130	17.913	23.446	36.598	1.00	20.00	O
ATOM	983	N	SER	131	19.897	24.322	37.130	1.00	20.00	N
ATOM	984	CA	SER	131	19.620	25.664	36.657	1.00	20.00	C
ATOM	985	CB	SER	131	20.794	26.539	37.119	1.00	20.00	C
ATOM	986	OG	SER	131	20.509	27.903	37.007	1.00	20.00	O
ATOM	987	C	SER	131	19.435	25.643	35.113	1.00	20.00	C
ATOM	988	O	SER	131	18.473	26.213	34.580	1.00	20.00	O
ATOM	989	N	VAL	132	20.342	24.961	34.427	1.00	20.00	N
ATOM	990	CA	VAL	132	20.279	24.820	32.969	1.00	20.00	C
ATOM	991	CB	VAL	132	21.531	24.077	32.431	1.00	20.00	C
ATOM	992	CG1	VAL	132	21.312	23.603	30.977	1.00	20.00	C
ATOM	993	CG2	VAL	132	22.743	24.996	32.510	1.00	20.00	C
ATOM	994	C	VAL	132	18.980	24.094	32.552	1.00	20.00	C
ATOM	995	O	VAL	132	18.310	24.503	31.600	1.00	20.00	O
ATOM	996	N	SER	133	18.617	23.047	33.293	1.00	20.00	N
ATOM	997	CA	SER	133	17.400	22.278	33.031	1.00	20.00	C
ATOM	998	CB	SER	133	17.350	21.069	33.943	1.00	20.00	C
ATOM	999	OG	SER	133	18.488	20.271	33.690	1.00	20.00	O
ATOM	1000	C	SER	133	16.154	23.135	33.232	1.00	20.00	C
ATOM	1001	O	SER	133	15.191	23.051	32.454	1.00	20.00	O
ATOM	1002	N	THR	134	16.185	23.979	34.256	1.00	20.00	N
ATOM	1003	CA	THR	134	15.071	24.867	34.540	1.00	20.00	C
ATOM	1004	CB	THR	134	15.281	25.600	35.871	1.00	20.00	C
ATOM	1005	OG1	THR	134	15.263	24.635	36.918	1.00	20.00	O
ATOM	1006	CG2	THR	134	14.184	26.618	36.123	1.00	20.00	C
ATOM	1007	C	THR	134	14.914	25.861	33.396	1.00	20.00	C
ATOM	1008	O	THR	134	13.806	26.086	32.915	1.00	20.00	O
ATOM	1009	N	VAL	135	16.022	26.423	32.928	1.00	20.00	N
ATOM	1010	CA	VAL	135	15.951	27.373	31.825	1.00	20.00	C
ATOM	1011	CB	VAL	135	17.319	28.013	31.520	1.00	20.00	C
ATOM	1012	CG1	VAL	135	17.206	28.941	30.314	1.00	20.00	C
ATOM	1013	CG2	VAL	135	17.803	28.804	32.715	1.00	20.00	C
ATOM	1014	C	VAL	135	15.431	26.682	30.566	1.00	20.00	C
ATOM	1015	O	VAL	135	14.494	27.174	29.940	1.00	20.00	O
ATOM	1016	N	LEU	136	15.981	25.517	30.228	1.00	20.00	N
ATOM	1017	CA	LEU	136	15.554	24.788	29.026	1.00	20.00	C
ATOM	1018	CB	LEU	136	16.454	23.568	28.783	1.00	20.00	C
ATOM	1019	CG	LEU	136	17.874	23.852	28.281	1.00	20.00	C
ATOM	1020	CD1	LEU	136	18.569	22.558	27.909	1.00	20.00	C

ATOM	1021	CD2	LEU	136	17.825	24.772	27.079	1.00	20.00	C
ATOM	1022	C	LEU	136	14.099	24.335	29.028	1.00	20.00	C
ATOM	1023	O	LEU	136	13.505	24.054	27.980	1.00	20.00	O
ATOM	1024	N	THR	137	13.508	24.349	30.207	1.00	20.00	N
ATOM	1025	CA	THR	137	12.147	23.882	30.420	1.00	20.00	C
ATOM	1026	CB	THR	137	12.262	22.806	31.556	1.00	20.00	C
ATOM	1027	OG1	THR	137	12.020	21.500	31.033	1.00	20.00	O
ATOM	1028	CG2	THR	137	11.437	23.100	32.720	1.00	20.00	C
ATOM	1029	C	THR	137	11.163	25.021	30.752	1.00	20.00	C
ATOM	1030	O	THR	137	9.950	24.814	30.812	1.00	20.00	O
ATOM	1031	N	SER	138	11.684	26.241	30.867	1.00	20.00	N
ATOM	1032	CA	SER	138	10.883	27.406	31.248	1.00	20.00	C
ATOM	1033	CB	SER	138	11.797	28.603	31.518	1.00	20.00	C
ATOM	1034	OG	SER	138	12.504	28.971	30.339	1.00	20.00	O
ATOM	1035	C	SER	138	9.746	27.841	30.324	1.00	20.00	C
ATOM	1036	O	SER	138	8.795	28.484	30.769	1.00	20.00	O
ATOM	1037	N	LYS	139	9.819	27.483	29.049	1.00	20.00	N
ATOM	1038	CA	LYS	139	8.778	27.906	28.119	1.00	20.00	C
ATOM	1039	CB	LYS	139	9.421	28.534	26.872	1.00	20.00	C
ATOM	1040	CG	LYS	139	10.278	29.757	27.163	1.00	20.00	C
ATOM	1041	CD	LYS	139	10.980	30.250	25.912	1.00	20.00	C
ATOM	1042	CE	LYS	139	11.853	31.462	26.219	1.00	20.00	C
ATOM	1043	NZ	LYS	139	12.467	32.070	24.997	1.00	20.00	N
ATOM	1044	C	LYS	139	7.841	26.773	27.717	1.00	20.00	C
ATOM	1045	O	LYS	139	7.093	26.902	26.764	1.00	20.00	O
ATOM	1046	N	TYR	140	7.860	25.680	28.466	1.00	20.00	N
ATOM	1047	CA	TYR	140	7.030	24.530	28.143	1.00	20.00	C
ATOM	1048	CB	TYR	140	7.366	23.351	29.060	1.00	20.00	C
ATOM	1049	CG	TYR	140	8.420	22.433	28.495	1.00	20.00	C
ATOM	1050	CD1	TYR	140	8.217	21.056	28.466	1.00	20.00	C
ATOM	1051	CE1	TYR	140	9.189	20.186	27.956	1.00	20.00	C
ATOM	1052	CD2	TYR	140	9.625	22.934	28.000	1.00	20.00	C
ATOM	1053	CE2	TYR	140	10.610	22.071	27.488	1.00	20.00	C
ATOM	1054	CZ	TYR	140	10.384	20.699	27.474	1.00	20.00	C
ATOM	1055	OH	TYR	140	11.350	19.827	27.013	1.00	20.00	O
ATOM	1056	C	TYR	140	5.534	24.789	28.141	1.00	20.00	C
ATOM	1057	O	TYR	140	4.789	24.129	27.413	1.00	20.00	O
ATOM	1058	N	ARG	141	5.083	25.703	28.984	1.00	20.00	N
ATOM	1059	CA	ARG	141	3.666	26.025	29.036	1.00	20.00	C
ATOM	1060	CB	ARG	141	2.886	24.965	29.812	1.00	20.00	C
ATOM	1061	CG	ARG	141	3.297	24.800	31.277	1.00	20.00	C
ATOM	1062	CD	ARG	141	2.392	23.793	31.962	1.00	20.00	C
ATOM	1063	NE	ARG	141	2.689	23.730	33.391	1.00	20.00	N
ATOM	1064	CZ	ARG	141	1.985	23.044	34.289	1.00	20.00	C
ATOM	1065	NH1	ARG	141	0.926	22.337	33.919	1.00	20.00	N
ATOM	1066	NH2	ARG	141	2.335	23.079	35.567	1.00	20.00	N
ATOM	1067	C	ARG	141	3.477	27.381	29.671	1.00	20.00	C
ATOM	1068	OT1	ARG	141	4.456	27.919	30.241	1.00	20.00	O
ATOM	1069	OT2	ARG	141	2.346	27.890	29.567	1.00	20.00	O
ATOM	1070	FE	HEM	143	18.355	18.450	23.843	1.00	20.00	F
ATOM	1071	NA	HEM	143	19.574	19.458	22.521	1.00	20.00	N
ATOM	1072	NB	HEM	143	19.580	19.116	25.335	1.00	20.00	N
ATOM	1073	NC	HEM	143	17.692	16.964	25.081	1.00	20.00	N
ATOM	1074	ND	HEM	143	17.759	17.314	22.305	1.00	20.00	N
ATOM	1075	C1A	HEM	143	19.534	19.461	21.129	1.00	20.00	C
ATOM	1076	CHA	HEM	143	18.723	18.616	20.397	1.00	20.00	C
ATOM	1077	C4D	HEM	143	17.954	17.580	20.935	1.00	20.00	C

ATOM	1078	C1B	HEM	143	20.566	20.121	25.287	1.00	20.00	C
ATOM	1079	CHB	HEM	143	21.058	20.681	24.109	1.00	20.00	C
ATOM	1080	C4A	HEM	143	20.614	20.363	22.813	1.00	20.00	C
ATOM	1081	C1C	HEM	143	17.835	16.888	26.485	1.00	20.00	C
ATOM	1082	CHC	HEM	143	18.712	17.725	27.226	1.00	20.00	C
ATOM	1083	C4B	HEM	143	19.552	18.739	26.693	1.00	20.00	C
ATOM	1084	C1D	HEM	143	16.985	16.161	22.325	1.00	20.00	C
ATOM	1085	CHD	HEM	143	16.640	15.449	23.458	1.00	20.00	C
ATOM	1086	C4C	HEM	143	17.028	15.773	24.756	1.00	20.00	C
ATOM	1087	C2A	HEM	143	20.541	20.375	20.571	1.00	20.00	C
ATOM	1088	CAA	HEM	143	20.857	20.579	19.097	1.00	20.00	C
ATOM	1089	C3A	HEM	143	21.205	20.967	21.605	1.00	20.00	C
ATOM	1090	CMA	HEM	143	22.337	22.014	21.581	1.00	20.00	C
ATOM	1091	CBA	HEM	143	20.013	21.768	18.688	1.00	20.00	C
ATOM	1092	CGA	HEM	143	20.193	22.164	17.232	1.00	20.00	C
ATOM	1093	O1A	HEM	143	20.658	21.340	16.413	1.00	20.00	O
ATOM	1094	O2A	HEM	143	19.853	23.317	16.907	1.00	20.00	O
ATOM	1095	C2B	HEM	143	21.102	20.431	26.599	1.00	20.00	C
ATOM	1096	CMB	HEM	143	22.101	21.548	26.890	1.00	20.00	C
ATOM	1097	C3B	HEM	143	20.464	19.574	27.482	1.00	20.00	C
ATOM	1098	CAB	HEM	143	20.491	19.557	28.895	1.00	20.00	C
ATOM	1099	CBB	HEM	143	21.644	19.786	29.725	1.00	20.00	C
ATOM	1100	C2C	HEM	143	17.227	15.656	27.025	1.00	20.00	C
ATOM	1101	CMC	HEM	143	17.142	15.265	28.510	1.00	20.00	C
ATOM	1102	C3C	HEM	143	16.762	14.915	25.956	1.00	20.00	C
ATOM	1103	CAC	HEM	143	16.068	13.680	25.943	1.00	20.00	C
ATOM	1104	CBC	HEM	143	16.161	12.515	26.776	1.00	20.00	C
ATOM	1105	C2D	HEM	143	16.642	15.713	20.983	1.00	20.00	C
ATOM	1106	CMD	HEM	143	15.846	14.458	20.573	1.00	20.00	C
ATOM	1107	C3D	HEM	143	17.251	16.593	20.146	1.00	20.00	C
ATOM	1108	CAD	HEM	143	17.235	16.502	18.639	1.00	20.00	C
ATOM	1109	CBD	HEM	143	18.456	15.686	18.229	1.00	20.00	C
ATOM	1110	CGD	HEM	143	18.583	15.563	16.718	1.00	20.00	C
ATOM	1111	O1D	HEM	143	19.591	16.024	16.150	1.00	20.00	O
ATOM	1112	O2D	HEM	143	17.671	14.998	16.094	1.00	20.00	O
ATOM	1113	CB	VAL	201	16.243	-5.583	40.383	1.00	20.00	C
ATOM	1114	CG1	VAL	201	14.909	-5.114	39.788	1.00	20.00	C
ATOM	1115	CG2	VAL	201	16.745	-4.624	41.455	1.00	20.00	C
ATOM	1116	C	VAL	201	16.579	-8.032	39.908	1.00	20.00	C
ATOM	1117	O	VAL	201	17.329	-8.960	40.235	1.00	20.00	O
ATOM	1118	N	VAL	201	16.978	-7.220	42.155	1.00	20.00	N
ATOM	1119	CA	VAL	201	16.104	-7.024	40.958	1.00	20.00	C
ATOM	1120	N	HIS	202	16.140	-7.878	38.663	1.00	20.00	N
ATOM	1121	CA	HIS	202	16.593	-8.796	37.634	1.00	20.00	C
ATOM	1122	CB	HIS	202	15.557	-8.982	36.517	1.00	20.00	C
ATOM	1123	CG	HIS	202	16.095	-9.727	35.329	1.00	20.00	C
ATOM	1124	CD2	HIS	202	16.418	-11.034	35.165	1.00	20.00	C
ATOM	1125	ND1	HIS	202	16.451	-9.096	34.153	1.00	20.00	N
ATOM	1126	CE1	HIS	202	16.972	-9.980	33.319	1.00	20.00	C
ATOM	1127	NE2	HIS	202	16.965	-11.163	33.909	1.00	20.00	N
ATOM	1128	C	HIS	202	17.921	-8.335	37.036	1.00	20.00	C
ATOM	1129	O	HIS	202	17.973	-7.382	36.249	1.00	20.00	O
ATOM	1130	N	LEU	203	18.993	-9.004	37.436	1.00	20.00	N
ATOM	1131	CA	LEU	203	20.310	-8.701	36.914	1.00	20.00	C
ATOM	1132	CB	LEU	203	21.282	-8.300	38.033	1.00	20.00	C
ATOM	1133	CG	LEU	203	21.286	-6.824	38.458	1.00	20.00	C
ATOM	1134	CD1	LEU	203	20.325	-6.575	39.602	1.00	20.00	C

ATOM	1135	CD2	LEU	203	22.681	-6.433	38.877	1.00	20.00	C
ATOM	1136	C	LEU	203	20.808	-9.937	36.176	1.00	20.00	C
ATOM	1137	O	LEU	203	20.575	-11.066	36.605	1.00	20.00	O
ATOM	1138	N	THR	204	21.404	-9.723	35.014	1.00	20.00	N
ATOM	1139	CA	THR	204	21.932	-10.825	34.227	1.00	20.00	C
ATOM	1140	CB	THR	204	22.217	-10.383	32.777	1.00	20.00	C
ATOM	1141	OG1	THR	204	23.117	-9.265	32.781	1.00	20.00	O
ATOM	1142	CG2	THR	204	20.916	-9.977	32.085	1.00	20.00	C
ATOM	1143	C	THR	204	23.226	-11.294	34.884	1.00	20.00	C
ATOM	1144	O	THR	204	23.869	-10.536	35.611	1.00	20.00	O
ATOM	1145	N	PRO	205	23.636	-12.545	34.621	1.00	20.00	N
ATOM	1146	CD	PRO	205	22.967	-13.541	33.762	1.00	20.00	C
ATOM	1147	CA	PRO	205	24.865	-13.097	35.199	1.00	20.00	C
ATOM	1148	CB	PRO	205	25.052	-14.390	34.404	1.00	20.00	C
ATOM	1149	CG	PRO	205	23.642	-14.830	34.175	1.00	20.00	C
ATOM	1150	C	PRO	205	26.080	-12.165	35.074	1.00	20.00	C
ATOM	1151	O	PRO	205	26.866	-12.033	36.020	1.00	20.00	O
ATOM	1152	N	GLU	206	26.224	-11.516	33.917	1.00	20.00	N
ATOM	1153	CA	GLU	206	27.344	-10.600	33.684	1.00	20.00	C
ATOM	1154	CB	GLU	206	27.550	-10.301	32.183	1.00	20.00	C
ATOM	1155	CG	GLU	206	26.330	-9.793	31.417	1.00	20.00	C
ATOM	1156	CD	GLU	206	25.508	-10.908	30.740	1.00	20.00	C
ATOM	1157	OE1	GLU	206	25.611	-12.101	31.125	1.00	20.00	O
ATOM	1158	OE2	GLU	206	24.747	-10.581	29.803	1.00	20.00	O
ATOM	1159	C	GLU	206	27.227	-9.307	34.496	1.00	20.00	C
ATOM	1160	O	GLU	206	28.242	-8.722	34.892	1.00	20.00	O
ATOM	1161	N	GLU	207	25.994	-8.868	34.746	1.00	20.00	N
ATOM	1162	CA	GLU	207	25.769	-7.668	35.546	1.00	20.00	C
ATOM	1163	CB	GLU	207	24.334	-7.181	35.420	1.00	20.00	C
ATOM	1164	CG	GLU	207	24.040	-6.516	34.100	1.00	20.00	C
ATOM	1165	CD	GLU	207	22.666	-5.868	34.072	1.00	20.00	C
ATOM	1166	OE1	GLU	207	22.581	-4.663	33.736	1.00	20.00	O
ATOM	1167	OE2	GLU	207	21.668	-6.557	34.387	1.00	20.00	O
ATOM	1168	C	GLU	207	26.105	-7.970	37.005	1.00	20.00	C
ATOM	1169	O	GLU	207	26.765	-7.174	37.668	1.00	20.00	O
ATOM	1170	N	LYS	208	25.683	-9.132	37.495	1.00	20.00	N
ATOM	1171	CA	LYS	208	25.983	-9.527	38.870	1.00	20.00	C
ATOM	1172	CB	LYS	208	25.411	-10.914	39.195	1.00	20.00	C
ATOM	1173	CG	LYS	208	23.885	-10.999	39.281	1.00	20.00	C
ATOM	1174	CD	LYS	208	23.435	-12.466	39.321	1.00	20.00	C
ATOM	1175	CE	LYS	208	21.922	-12.628	39.465	1.00	20.00	C
ATOM	1176	NZ	LYS	208	21.455	-12.361	40.861	1.00	20.00	N
ATOM	1177	C	LYS	208	27.502	-9.542	39.052	1.00	20.00	C
ATOM	1178	O	LYS	208	28.015	-8.920	39.983	1.00	20.00	O
ATOM	1179	N	SER	209	28.220	-10.218	38.153	1.00	20.00	N
ATOM	1180	CA	SER	209	29.687	-10.291	38.230	1.00	20.00	C
ATOM	1181	CB	SER	209	30.265	-11.099	37.067	1.00	20.00	C
ATOM	1182	OG	SER	209	29.789	-12.427	37.089	1.00	20.00	O
ATOM	1183	C	SER	209	30.342	-8.913	38.231	1.00	20.00	C
ATOM	1184	O	SER	209	31.310	-8.678	38.960	1.00	20.00	O
ATOM	1185	N	ALA	210	29.825	-8.012	37.401	1.00	20.00	N
ATOM	1186	CA	ALA	210	30.359	-6.660	37.326	1.00	20.00	C
ATOM	1187	CB	ALA	210	29.668	-5.873	36.225	1.00	20.00	C
ATOM	1188	C	ALA	210	30.192	-5.955	38.675	1.00	20.00	C
ATOM	1189	O	ALA	210	31.135	-5.347	39.186	1.00	20.00	O
ATOM	1190	N	VAL	211	28.994	-6.041	39.244	1.00	20.00	N
ATOM	1191	CA	VAL	211	28.712	-5.424	40.534	1.00	20.00	C

ATOM	1192	CB	VAL	211	27.227	-5.605	40.934	1.00	20.00	C
ATOM	1193	CG1	VAL	211	27.015	-5.198	42.390	1.00	20.00	C
ATOM	1194	CG2	VAL	211	26.346	-4.758	40.029	1.00	20.00	C
ATOM	1195	C	VAL	211	29.617	-6.011	41.619	1.00	20.00	C
ATOM	1196	O	VAL	211	30.314	-5.266	42.315	1.00	20.00	O
ATOM	1197	N	THR	212	29.652	-7.341	41.710	1.00	20.00	N
ATOM	1198	CA	THR	212	30.461	-8.045	42.712	1.00	20.00	C
ATOM	1199	CB	THR	212	30.343	-9.568	42.564	1.00	20.00	C
ATOM	1200	OG1	THR	212	28.969	-9.949	42.517	1.00	20.00	O
ATOM	1201	CG2	THR	212	30.986	-10.257	43.738	1.00	20.00	C
ATOM	1202	C	THR	212	31.947	-7.710	42.630	1.00	20.00	C
ATOM	1203	O	THR	212	32.566	-7.337	43.627	1.00	20.00	O
ATOM	1204	N	ALA	213	32.506	-7.856	41.432	1.00	20.00	N
ATOM	1205	CA	ALA	213	33.919	-7.602	41.174	1.00	20.00	C
ATOM	1206	CB	ALA	213	34.215	-7.762	39.679	1.00	20.00	C
ATOM	1207	C	ALA	213	34.352	-6.228	41.645	1.00	20.00	C
ATOM	1208	O	ALA	213	35.294	-6.097	42.415	1.00	20.00	O
ATOM	1209	N	LEU	214	33.668	-5.200	41.164	1.00	20.00	N
ATOM	1210	CA	LEU	214	33.983	-3.829	41.529	1.00	20.00	C
ATOM	1211	CB	LEU	214	33.042	-2.890	40.770	1.00	20.00	C
ATOM	1212	CG	LEU	214	33.384	-1.430	40.485	1.00	20.00	C
ATOM	1213	CD1	LEU	214	32.787	-0.539	41.541	1.00	20.00	C
ATOM	1214	CD2	LEU	214	34.885	-1.237	40.339	1.00	20.00	C
ATOM	1215	C	LEU	214	33.847	-3.635	43.043	1.00	20.00	C
ATOM	1216	O	LEU	214	34.726	-3.039	43.682	1.00	20.00	O
ATOM	1217	N	TRP	215	32.795	-4.209	43.629	1.00	20.00	N
ATOM	1218	CA	TRP	215	32.565	-4.047	45.056	1.00	20.00	C
ATOM	1219	CB	TRP	215	31.221	-4.640	45.482	1.00	20.00	C
ATOM	1220	CG	TRP	215	30.794	-4.126	46.845	1.00	20.00	C
ATOM	1221	CD2	TRP	215	30.305	-2.814	47.142	1.00	20.00	C
ATOM	1222	CE2	TRP	215	30.117	-2.743	48.541	1.00	20.00	C
ATOM	1223	CE3	TRP	215	29.996	-1.689	46.363	1.00	20.00	C
ATOM	1224	CD1	TRP	215	30.878	-4.784	48.039	1.00	20.00	C
ATOM	1225	NE1	TRP	215	30.478	-3.957	49.063	1.00	20.00	N
ATOM	1226	CZ2	TRP	215	29.661	-1.585	49.178	1.00	20.00	C
ATOM	1227	CZ3	TRP	215	29.543	-0.533	46.999	1.00	20.00	C
ATOM	1228	CH2	TRP	215	29.371	-0.499	48.393	1.00	20.00	C
ATOM	1229	C	TRP	215	33.691	-4.621	45.906	1.00	20.00	C
ATOM	1230	O	TRP	215	33.988	-4.090	46.983	1.00	20.00	O
ATOM	1231	N	GLY	216	34.335	-5.675	45.403	1.00	20.00	N
ATOM	1232	CA	GLY	216	35.430	-6.304	46.123	1.00	20.00	C
ATOM	1233	C	GLY	216	36.614	-5.370	46.304	1.00	20.00	C
ATOM	1234	O	GLY	216	37.498	-5.635	47.131	1.00	20.00	O
ATOM	1235	N	LYS	217	36.647	-4.288	45.522	1.00	20.00	N
ATOM	1236	CA	LYS	217	37.728	-3.319	45.602	1.00	20.00	C
ATOM	1237	CB	LYS	217	38.111	-2.830	44.207	1.00	20.00	C
ATOM	1238	CG	LYS	217	38.634	-3.897	43.242	1.00	20.00	C
ATOM	1239	CD	LYS	217	38.993	-3.233	41.902	1.00	20.00	C
ATOM	1240	CE	LYS	217	39.556	-4.210	40.882	1.00	20.00	C
ATOM	1241	NZ	LYS	217	38.596	-5.312	40.569	1.00	20.00	N
ATOM	1242	C	LYS	217	37.365	-2.109	46.461	1.00	20.00	C
ATOM	1243	O	LYS	217	38.194	-1.212	46.660	1.00	20.00	O
ATOM	1244	N	VAL	218	36.138	-2.085	46.978	1.00	20.00	N
ATOM	1245	CA	VAL	218	35.661	-0.968	47.795	1.00	20.00	C
ATOM	1246	CB	VAL	218	34.118	-0.813	47.649	1.00	20.00	C
ATOM	1247	CG1	VAL	218	33.563	0.213	48.652	1.00	20.00	C
ATOM	1248	CG2	VAL	218	33.771	-0.383	46.238	1.00	20.00	C

ATOM	1249	C	VAL	218	36.013	-1.033	49.287	1.00	20.00	C
ATOM	1250	O	VAL	218	35.955	-2.091	49.906	1.00	20.00	O
ATOM	1251	N	ASN	219	36.432	0.097	49.847	1.00	20.00	N
ATOM	1252	CA	ASN	219	36.716	0.189	51.280	1.00	20.00	C
ATOM	1253	CB	ASN	219	37.804	1.227	51.568	1.00	20.00	C
ATOM	1254	CG	ASN	219	38.049	1.428	53.063	1.00	20.00	C
ATOM	1255	OD1	ASN	219	37.121	1.410	53.883	1.00	20.00	O
ATOM	1256	ND2	ASN	219	39.309	1.637	53.420	1.00	20.00	N
ATOM	1257	C	ASN	219	35.366	0.684	51.808	1.00	20.00	C
ATOM	1258	O	ASN	219	35.030	1.871	51.683	1.00	20.00	O
ATOM	1259	N	VAL	220	34.585	-0.235	52.359	1.00	20.00	N
ATOM	1260	CA	VAL	220	33.252	0.093	52.839	1.00	20.00	C
ATOM	1261	CB	VAL	220	32.508	-1.155	53.379	1.00	20.00	C
ATOM	1262	CG1	VAL	220	31.088	-0.776	53.788	1.00	20.00	C
ATOM	1263	CG2	VAL	220	32.458	-2.251	52.286	1.00	20.00	C
ATOM	1264	C	VAL	220	33.172	1.264	53.802	1.00	20.00	C
ATOM	1265	O	VAL	220	32.351	2.155	53.608	1.00	20.00	O
ATOM	1266	N	ASP	221	34.054	1.310	54.792	1.00	20.00	N
ATOM	1267	CA	ASP	221	34.034	2.411	55.752	1.00	20.00	C
ATOM	1268	CB	ASP	221	35.030	2.162	56.891	1.00	20.00	C
ATOM	1269	CG	ASP	221	34.478	1.227	57.965	1.00	20.00	C
ATOM	1270	OD1	ASP	221	33.321	0.760	57.834	1.00	20.00	O
ATOM	1271	OD2	ASP	221	35.204	0.960	58.949	1.00	20.00	O
ATOM	1272	C	ASP	221	34.293	3.759	55.107	1.00	20.00	C
ATOM	1273	O	ASP	221	33.550	4.717	55.333	1.00	20.00	O
ATOM	1274	N	GLU	222	35.330	3.820	54.285	1.00	20.00	N
ATOM	1275	CA	GLU	222	35.710	5.049	53.608	1.00	20.00	C
ATOM	1276	CB	GLU	222	37.017	4.809	52.860	1.00	20.00	C
ATOM	1277	CG	GLU	222	37.469	5.940	51.970	1.00	20.00	C
ATOM	1278	CD	GLU	222	38.566	5.496	51.020	1.00	20.00	C
ATOM	1279	OE1	GLU	222	38.238	5.084	49.884	1.00	20.00	O
ATOM	1280	OE2	GLU	222	39.754	5.525	51.421	1.00	20.00	O
ATOM	1281	C	GLU	222	34.616	5.530	52.644	1.00	20.00	C
ATOM	1282	O	GLU	222	34.210	6.699	52.671	1.00	20.00	O
ATOM	1283	N	VAL	223	34.139	4.628	51.790	1.00	20.00	N
ATOM	1284	CA	VAL	223	33.102	4.978	50.829	1.00	20.00	C
ATOM	1285	CB	VAL	223	32.889	3.847	49.797	1.00	20.00	C
ATOM	1286	CG1	VAL	223	31.614	4.063	48.996	1.00	20.00	C
ATOM	1287	CG2	VAL	223	34.083	3.820	48.849	1.00	20.00	C
ATOM	1288	C	VAL	223	31.809	5.359	51.548	1.00	20.00	C
ATOM	1289	O	VAL	223	31.120	6.293	51.140	1.00	20.00	O
ATOM	1290	N	GLY	224	31.517	4.686	52.652	1.00	20.00	N
ATOM	1291	CA	GLY	224	30.318	5.010	53.407	1.00	20.00	C
ATOM	1292	C	GLY	224	30.345	6.436	53.934	1.00	20.00	C
ATOM	1293	O	GLY	224	29.365	7.168	53.809	1.00	20.00	O
ATOM	1294	N	GLY	225	31.484	6.837	54.498	1.00	20.00	N
ATOM	1295	CA	GLY	225	31.630	8.181	55.027	1.00	20.00	C
ATOM	1296	C	GLY	225	31.528	9.212	53.921	1.00	20.00	C
ATOM	1297	O	GLY	225	30.855	10.224	54.063	1.00	20.00	O
ATOM	1298	N	GLU	226	32.189	8.936	52.804	1.00	20.00	N
ATOM	1299	CA	GLU	226	32.193	9.819	51.646	1.00	20.00	C
ATOM	1300	CB	GLU	226	33.084	9.215	50.564	1.00	20.00	C
ATOM	1301	CG	GLU	226	33.137	10.005	49.298	1.00	20.00	C
ATOM	1302	CD	GLU	226	34.272	10.990	49.294	1.00	20.00	C
ATOM	1303	OE1	GLU	226	34.051	12.173	48.942	1.00	20.00	O
ATOM	1304	OE2	GLU	226	35.398	10.568	49.638	1.00	20.00	O
ATOM	1305	C	GLU	226	30.790	10.033	51.074	1.00	20.00	C

ATOM	1306	O	GLU	226	30.382	11.163	50.794	1.00	20.00	O
ATOM	1307	N	ALA	227	30.057	8.940	50.902	1.00	20.00	N
ATOM	1308	CA	ALA	227	28.720	9.010	50.339	1.00	20.00	C
ATOM	1309	CB	ALA	227	28.204	7.610	50.012	1.00	20.00	C
ATOM	1310	C	ALA	227	27.740	9.750	51.241	1.00	20.00	C
ATOM	1311	O	ALA	227	26.999	10.614	50.771	1.00	20.00	O
ATOM	1312	N	LEU	228	27.734	9.442	52.536	1.00	20.00	N
ATOM	1313	CA	LEU	228	26.797	10.132	53.423	1.00	20.00	C
ATOM	1314	CB	LEU	228	26.705	9.462	54.795	1.00	20.00	C
ATOM	1315	CG	LEU	228	25.562	10.027	55.641	1.00	20.00	C
ATOM	1316	CD1	LEU	228	24.211	9.776	55.003	1.00	20.00	C
ATOM	1317	CD2	LEU	228	25.632	9.411	57.016	1.00	20.00	C
ATOM	1318	C	LEU	228	27.177	11.607	53.545	1.00	20.00	C
ATOM	1319	O	LEU	228	26.307	12.481	53.544	1.00	20.00	O
ATOM	1320	N	GLY	229	28.475	11.892	53.597	1.00	20.00	N
ATOM	1321	CA	GLY	229	28.907	13.280	53.680	1.00	20.00	C
ATOM	1322	C	GLY	229	28.461	14.086	52.456	1.00	20.00	C
ATOM	1323	O	GLY	229	27.966	15.211	52.571	1.00	20.00	O
ATOM	1324	N	ARG	230	28.629	13.512	51.267	1.00	20.00	N
ATOM	1325	CA	ARG	230	28.222	14.206	50.044	1.00	20.00	C
ATOM	1326	CB	ARG	230	28.740	13.490	48.797	1.00	20.00	C
ATOM	1327	CG	ARG	230	30.199	13.732	48.550	1.00	20.00	C
ATOM	1328	CD	ARG	230	30.637	13.144	47.239	1.00	20.00	C
ATOM	1329	NE	ARG	230	32.081	13.238	47.124	1.00	20.00	N
ATOM	1330	CZ	ARG	230	32.724	13.991	46.239	1.00	20.00	C
ATOM	1331	NH1	ARG	230	32.054	14.731	45.363	1.00	20.00	N
ATOM	1332	NH2	ARG	230	34.052	14.017	46.246	1.00	20.00	N
ATOM	1333	C	ARG	230	26.711	14.374	49.973	1.00	20.00	C
ATOM	1334	O	ARG	230	26.225	15.374	49.464	1.00	20.00	O
ATOM	1335	N	LEU	231	25.969	13.401	50.484	1.00	20.00	N
ATOM	1336	CA	LEU	231	24.516	13.490	50.491	1.00	20.00	C
ATOM	1337	CB	LEU	231	23.909	12.268	51.187	1.00	20.00	C
ATOM	1338	CG	LEU	231	22.399	12.336	51.382	1.00	20.00	C
ATOM	1339	CD1	LEU	231	21.714	12.308	50.011	1.00	20.00	C
ATOM	1340	CD2	LEU	231	21.923	11.173	52.227	1.00	20.00	C
ATOM	1341	C	LEU	231	24.121	14.745	51.254	1.00	20.00	C
ATOM	1342	O	LEU	231	23.288	15.539	50.802	1.00	20.00	O
ATOM	1343	N	LEU	232	24.761	14.928	52.404	1.00	20.00	N
ATOM	1344	CA	LEU	232	24.483	16.058	53.287	1.00	20.00	C
ATOM	1345	CB	LEU	232	25.089	15.807	54.671	1.00	20.00	C
ATOM	1346	CG	LEU	232	24.247	15.088	55.734	1.00	20.00	C
ATOM	1347	CD1	LEU	232	23.431	13.960	55.202	1.00	20.00	C
ATOM	1348	CD2	LEU	232	25.191	14.587	56.811	1.00	20.00	C
ATOM	1349	C	LEU	232	24.949	17.394	52.746	1.00	20.00	C
ATOM	1350	O	LEU	232	24.381	18.432	53.084	1.00	20.00	O
ATOM	1351	N	VAL	233	26.017	17.373	51.957	1.00	20.00	N
ATOM	1352	CA	VAL	233	26.560	18.589	51.366	1.00	20.00	C
ATOM	1353	CB	VAL	233	28.062	18.400	51.000	1.00	20.00	C
ATOM	1354	CG1	VAL	233	28.587	19.616	50.250	1.00	20.00	C
ATOM	1355	CG2	VAL	233	28.889	18.180	52.273	1.00	20.00	C
ATOM	1356	C	VAL	233	25.783	18.998	50.105	1.00	20.00	C
ATOM	1357	O	VAL	233	25.385	20.157	49.950	1.00	20.00	O
ATOM	1358	N	VAL	234	25.554	18.032	49.223	1.00	20.00	N
ATOM	1359	CA	VAL	234	24.866	18.276	47.957	1.00	20.00	C
ATOM	1360	CB	VAL	234	25.194	17.169	46.927	1.00	20.00	C
ATOM	1361	CG1	VAL	234	24.542	17.471	45.607	1.00	20.00	C
ATOM	1362	CG2	VAL	234	26.710	17.058	46.748	1.00	20.00	C

ATOM	1363	C	VAL	234	23.352	18.485	48.096	1.00	20.00	C
ATOM	1364	O	VAL	234	22.777	19.299	47.383	1.00	20.00	O
ATOM	1365	N	TYR	235	22.714	17.761	49.015	1.00	20.00	N
ATOM	1366	CA	TYR	235	21.273	17.903	49.256	1.00	20.00	C
ATOM	1367	CB	TYR	235	20.543	16.601	48.890	1.00	20.00	C
ATOM	1368	CG	TYR	235	20.801	16.197	47.462	1.00	20.00	C
ATOM	1369	CD1	TYR	235	20.278	16.948	46.413	1.00	20.00	C
ATOM	1370	CE1	TYR	235	20.610	16.678	45.100	1.00	20.00	C
ATOM	1371	CD2	TYR	235	21.656	15.138	47.161	1.00	20.00	C
ATOM	1372	CE2	TYR	235	22.003	14.851	45.839	1.00	20.00	C
ATOM	1373	CZ	TYR	235	21.477	15.632	44.810	1.00	20.00	C
ATOM	1374	OH	TYR	235	21.865	15.420	43.501	1.00	20.00	O
ATOM	1375	C	TYR	235	21.134	18.212	50.741	1.00	20.00	C
ATOM	1376	O	TYR	235	20.634	17.396	51.516	1.00	20.00	O
ATOM	1377	N	PRO	236	21.497	19.440	51.141	1.00	20.00	N
ATOM	1378	CD	PRO	236	21.832	20.591	50.286	1.00	20.00	C
ATOM	1379	CA	PRO	236	21.427	19.830	52.550	1.00	20.00	C
ATOM	1380	CB	PRO	236	21.899	21.285	52.536	1.00	20.00	C
ATOM	1381	CG	PRO	236	21.525	21.766	51.180	1.00	20.00	C
ATOM	1382	C	PRO	236	20.141	19.604	53.337	1.00	20.00	C
ATOM	1383	O	PRO	236	20.185	19.526	54.563	1.00	20.00	O
ATOM	1384	N	TRP	237	19.005	19.431	52.670	1.00	20.00	N
ATOM	1385	CA	TRP	237	17.777	19.191	53.420	1.00	20.00	C
ATOM	1386	CB	TRP	237	16.526	19.382	52.544	1.00	20.00	C
ATOM	1387	CG	TRP	237	16.495	18.578	51.253	1.00	20.00	C
ATOM	1388	CD2	TRP	237	17.033	18.966	49.975	1.00	20.00	C
ATOM	1389	CE2	TRP	237	16.723	17.938	49.052	1.00	20.00	C
ATOM	1390	CE3	TRP	237	17.765	20.078	49.525	1.00	20.00	C
ATOM	1391	CD1	TRP	237	15.886	17.362	51.053	1.00	20.00	C
ATOM	1392	NE1	TRP	237	16.017	16.976	49.733	1.00	20.00	N
ATOM	1393	CZ2	TRP	237	17.088	18.001	47.695	1.00	20.00	C
ATOM	1394	CZ3	TRP	237	18.130	20.137	48.168	1.00	20.00	C
ATOM	1395	CH2	TRP	237	17.798	19.100	47.281	1.00	20.00	C
ATOM	1396	C	TRP	237	17.792	17.818	54.113	1.00	20.00	C
ATOM	1397	O	TRP	237	17.053	17.599	55.072	1.00	20.00	O
ATOM	1398	N	THR	238	18.680	16.924	53.672	1.00	20.00	N
ATOM	1399	CA	THR	238	18.815	15.597	54.274	1.00	20.00	C
ATOM	1400	CB	THR	238	19.668	14.664	53.385	1.00	20.00	C
ATOM	1401	OG1	THR	238	20.957	15.251	53.197	1.00	20.00	O
ATOM	1402	CG2	THR	238	19.009	14.483	52.025	1.00	20.00	C
ATOM	1403	C	THR	238	19.461	15.691	55.663	1.00	20.00	C
ATOM	1404	O	THR	238	19.521	14.698	56.394	1.00	20.00	O
ATOM	1405	N	GLN	239	19.973	16.878	56.002	1.00	20.00	N
ATOM	1406	CA	GLN	239	20.605	17.130	57.302	1.00	20.00	C
ATOM	1407	CB	GLN	239	21.358	18.468	57.299	1.00	20.00	C
ATOM	1408	CG	GLN	239	22.660	18.500	56.506	1.00	20.00	C
ATOM	1409	CD	GLN	239	23.301	19.888	56.478	1.00	20.00	C
ATOM	1410	OE1	GLN	239	23.107	20.699	57.387	1.00	20.00	O
ATOM	1411	NE2	GLN	239	24.071	20.160	55.435	1.00	20.00	N
ATOM	1412	C	GLN	239	19.573	17.166	58.432	1.00	20.00	C
ATOM	1413	O	GLN	239	19.938	17.097	59.603	1.00	20.00	O
ATOM	1414	N	ARG	240	18.292	17.240	58.081	1.00	20.00	N
ATOM	1415	CA	ARG	240	17.204	17.301	59.060	1.00	20.00	C
ATOM	1416	CB	ARG	240	15.843	17.335	58.351	1.00	20.00	C
ATOM	1417	CG	ARG	240	15.400	15.990	57.783	1.00	20.00	C
ATOM	1418	CD	ARG	240	14.228	16.134	56.811	1.00	20.00	C
ATOM	1419	NE	ARG	240	13.121	16.867	57.417	1.00	20.00	N

ATOM	1420	CZ	ARG	240	12.136	16.304	58.108	1.00	20.00	C
ATOM	1421	NH1	ARG	240	12.107	14.992	58.280	1.00	20.00	N
ATOM	1422	NH2	ARG	240	11.185	17.061	58.647	1.00	20.00	N
ATOM	1423	C	ARG	240	17.206	16.176	60.108	1.00	20.00	C
ATOM	1424	O	ARG	240	16.733	16.373	61.223	1.00	20.00	O
ATOM	1425	N	PHE	241	17.747	15.012	59.757	1.00	20.00	N
ATOM	1426	CA	PHE	241	17.777	13.869	60.667	1.00	20.00	C
ATOM	1427	CB	PHE	241	17.781	12.572	59.845	1.00	20.00	C
ATOM	1428	CG	PHE	241	16.655	12.472	58.874	1.00	20.00	C
ATOM	1429	CD1	PHE	241	16.843	12.795	57.540	1.00	20.00	C
ATOM	1430	CD2	PHE	241	15.383	12.100	59.301	1.00	20.00	C
ATOM	1431	CE1	PHE	241	15.783	12.735	56.636	1.00	20.00	C
ATOM	1432	CE2	PHE	241	14.311	12.036	58.397	1.00	20.00	C
ATOM	1433	CZ	PHE	241	14.513	12.362	57.067	1.00	20.00	C
ATOM	1434	C	PHE	241	19.006	13.852	61.562	1.00	20.00	C
ATOM	1435	O	PHE	241	19.032	13.179	62.586	1.00	20.00	O
ATOM	1436	N	PHE	242	19.999	14.652	61.210	1.00	20.00	N
ATOM	1437	CA	PHE	242	21.258	14.603	61.912	1.00	20.00	C
ATOM	1438	CB	PHE	242	22.340	14.233	60.890	1.00	20.00	C
ATOM	1439	CG	PHE	242	21.962	13.064	60.006	1.00	20.00	C
ATOM	1440	CD1	PHE	242	21.471	13.274	58.722	1.00	20.00	C
ATOM	1441	CD2	PHE	242	22.065	11.759	60.469	1.00	20.00	C
ATOM	1442	CE1	PHE	242	21.085	12.196	57.911	1.00	20.00	C
ATOM	1443	CE2	PHE	242	21.682	10.680	59.666	1.00	20.00	C
ATOM	1444	CZ	PHE	242	21.190	10.904	58.385	1.00	20.00	C
ATOM	1445	C	PHE	242	21.686	15.801	62.744	1.00	20.00	C
ATOM	1446	O	PHE	242	22.882	16.029	62.929	1.00	20.00	O
ATOM	1447	N	GLU	243	20.734	16.524	63.313	1.00	20.00	N
ATOM	1448	CA	GLU	243	21.094	17.676	64.131	1.00	20.00	C
ATOM	1449	CB	GLU	243	19.874	18.547	64.441	1.00	20.00	C
ATOM	1450	CG	GLU	243	18.621	17.816	64.901	1.00	20.00	C
ATOM	1451	CD	GLU	243	17.434	18.770	65.033	1.00	20.00	C
ATOM	1452	OE1	GLU	243	17.201	19.265	66.160	1.00	20.00	O
ATOM	1453	OE2	GLU	243	16.754	19.041	64.010	1.00	20.00	O
ATOM	1454	C	GLU	243	21.868	17.311	65.401	1.00	20.00	C
ATOM	1455	O	GLU	243	22.598	18.134	65.935	1.00	20.00	O
ATOM	1456	N	SER	244	21.751	16.070	65.860	1.00	20.00	N
ATOM	1457	CA	SER	244	22.488	15.639	67.045	1.00	20.00	C
ATOM	1458	CB	SER	244	21.808	14.425	67.694	1.00	20.00	C
ATOM	1459	OG	SER	244	21.910	13.257	66.893	1.00	20.00	O
ATOM	1460	C	SER	244	23.944	15.297	66.693	1.00	20.00	C
ATOM	1461	O	SER	244	24.749	15.020	67.578	1.00	20.00	O
ATOM	1462	N	PHE	245	24.276	15.309	65.402	1.00	20.00	N
ATOM	1463	CA	PHE	245	25.629	14.987	64.944	1.00	20.00	C
ATOM	1464	CB	PHE	245	25.621	14.569	63.469	1.00	20.00	C
ATOM	1465	CG	PHE	245	25.177	13.151	63.237	1.00	20.00	C
ATOM	1466	CD1	PHE	245	25.595	12.461	62.111	1.00	20.00	C
ATOM	1467	CD2	PHE	245	24.363	12.499	64.149	1.00	20.00	C
ATOM	1468	CE1	PHE	245	25.206	11.147	61.896	1.00	20.00	C
ATOM	1469	CE2	PHE	245	23.970	11.185	63.940	1.00	20.00	C
ATOM	1470	CZ	PHE	245	24.396	10.509	62.813	1.00	20.00	C
ATOM	1471	C	PHE	245	26.653	16.097	65.156	1.00	20.00	C
ATOM	1472	O	PHE	245	27.836	15.903	64.911	1.00	20.00	O
ATOM	1473	N	GLY	246	26.200	17.272	65.566	1.00	20.00	N
ATOM	1474	CA	GLY	246	27.127	18.356	65.799	1.00	20.00	C
ATOM	1475	C	GLY	246	27.270	19.345	64.660	1.00	20.00	C
ATOM	1476	O	GLY	246	26.287	19.736	64.026	1.00	20.00	O

ATOM	1477	N	ASP	247	28.515	19.726	64.395	1.00	20.00	N
ATOM	1478	CA	ASP	247	28.845	20.707	63.367	1.00	20.00	C
ATOM	1479	CB	ASP	247	30.263	21.235	63.608	1.00	20.00	C
ATOM	1480	CG	ASP	247	30.572	22.475	62.802	1.00	20.00	C
ATOM	1481	OD1	ASP	247	31.763	22.842	62.737	1.00	20.00	O
ATOM	1482	OD2	ASP	247	29.636	23.088	62.245	1.00	20.00	O
ATOM	1483	C	ASP	247	28.708	20.244	61.915	1.00	20.00	C
ATOM	1484	O	ASP	247	29.470	19.388	61.445	1.00	20.00	O
ATOM	1485	N	LEU	248	27.784	20.885	61.202	1.00	20.00	N
ATOM	1486	CA	LEU	248	27.514	20.600	59.791	1.00	20.00	C
ATOM	1487	CB	LEU	248	26.172	19.863	59.660	1.00	20.00	C
ATOM	1488	CG	LEU	248	25.967	18.534	60.395	1.00	20.00	C
ATOM	1489	CD1	LEU	248	24.530	18.087	60.240	1.00	20.00	C
ATOM	1490	CD2	LEU	248	26.915	17.463	59.871	1.00	20.00	C
ATOM	1491	C	LEU	248	27.430	21.926	59.011	1.00	20.00	C
ATOM	1492	O	LEU	248	26.856	21.982	57.927	1.00	20.00	O
ATOM	1493	N	SER	249	28.042	22.980	59.544	1.00	20.00	N
ATOM	1494	CA	SER	249	27.972	24.305	58.927	1.00	20.00	C
ATOM	1495	CB	SER	249	28.575	25.349	59.859	1.00	20.00	C
ATOM	1496	OG	SER	249	29.947	25.069	60.081	1.00	20.00	O
ATOM	1497	C	SER	249	28.614	24.464	57.565	1.00	20.00	C
ATOM	1498	O	SER	249	28.241	25.364	56.811	1.00	20.00	O
ATOM	1499	N	THR	250	29.632	23.659	57.281	1.00	20.00	N
ATOM	1500	CA	THR	250	30.336	23.754	56.007	1.00	20.00	C
ATOM	1501	CB	THR	250	31.670	24.527	56.158	1.00	20.00	C
ATOM	1502	OG1	THR	250	32.562	23.786	57.000	1.00	20.00	O
ATOM	1503	CG2	THR	250	31.442	25.901	56.747	1.00	20.00	C
ATOM	1504	C	THR	250	30.668	22.368	55.453	1.00	20.00	C
ATOM	1505	O	THR	250	30.607	21.373	56.183	1.00	20.00	O
ATOM	1506	N	PRO	251	31.026	22.288	54.149	1.00	20.00	N
ATOM	1507	CD	PRO	251	30.945	23.352	53.127	1.00	20.00	C
ATOM	1508	CA	PRO	251	31.373	21.005	53.530	1.00	20.00	C
ATOM	1509	CB	PRO	251	31.811	21.420	52.130	1.00	20.00	C
ATOM	1510	CG	PRO	251	30.882	22.565	51.838	1.00	20.00	C
ATOM	1511	C	PRO	251	32.495	20.308	54.294	1.00	20.00	C
ATOM	1512	O	PRO	251	32.399	19.123	54.588	1.00	20.00	O
ATOM	1513	N	ASP	252	33.542	21.048	54.647	1.00	20.00	N
ATOM	1514	CA	ASP	252	34.648	20.458	55.396	1.00	20.00	C
ATOM	1515	CB	ASP	252	35.828	21.431	55.517	1.00	20.00	C
ATOM	1516	CG	ASP	252	36.603	21.571	54.213	1.00	20.00	C
ATOM	1517	OD1	ASP	252	37.045	20.537	53.659	1.00	20.00	O
ATOM	1518	OD2	ASP	252	36.761	22.715	53.734	1.00	20.00	O
ATOM	1519	C	ASP	252	34.198	19.966	56.765	1.00	20.00	C
ATOM	1520	O	ASP	252	34.649	18.917	57.214	1.00	20.00	O
ATOM	1521	N	ALA	253	33.293	20.697	57.413	1.00	20.00	N
ATOM	1522	CA	ALA	253	32.787	20.279	58.723	1.00	20.00	C
ATOM	1523	CB	ALA	253	31.918	21.365	59.328	1.00	20.00	C
ATOM	1524	C	ALA	253	31.991	18.976	58.564	1.00	20.00	C
ATOM	1525	O	ALA	253	32.145	18.041	59.344	1.00	20.00	O
ATOM	1526	N	VAL	254	31.159	18.907	57.530	1.00	20.00	N
ATOM	1527	CA	VAL	254	30.366	17.711	57.267	1.00	20.00	C
ATOM	1528	CB	VAL	254	29.417	17.903	56.051	1.00	20.00	C
ATOM	1529	CG1	VAL	254	28.688	16.600	55.748	1.00	20.00	C
ATOM	1530	CG2	VAL	254	28.418	19.017	56.332	1.00	20.00	C
ATOM	1531	C	VAL	254	31.265	16.513	56.980	1.00	20.00	C
ATOM	1532	O	VAL	254	31.128	15.457	57.601	1.00	20.00	O
ATOM	1533	N	MET	255	32.197	16.682	56.047	1.00	20.00	N

ATOM	1534	CA	MET	255	33.099	15.591	55.665	1.00	20.00	C
ATOM	1535	CB	MET	255	33.915	15.967	54.412	1.00	20.00	C
ATOM	1536	CG	MET	255	33.088	16.334	53.161	1.00	20.00	C
ATOM	1537	SD	MET	255	31.809	15.159	52.654	1.00	20.00	S
ATOM	1538	CE	MET	255	32.777	13.801	52.125	1.00	20.00	C
ATOM	1539	C	MET	255	34.037	15.118	56.791	1.00	20.00	C
ATOM	1540	O	MET	255	34.415	13.943	56.831	1.00	20.00	O
ATOM	1541	N	GLY	256	34.426	16.033	57.679	1.00	20.00	N
ATOM	1542	CA	GLY	256	35.314	15.677	58.776	1.00	20.00	C
ATOM	1543	C	GLY	256	34.603	15.240	60.052	1.00	20.00	C
ATOM	1544	O	GLY	256	35.246	14.810	61.014	1.00	20.00	O
ATOM	1545	N	ASN	257	33.278	15.323	60.053	1.00	20.00	N
ATOM	1546	CA	ASN	257	32.478	14.961	61.211	1.00	20.00	C
ATOM	1547	CB	ASN	257	31.037	15.425	60.992	1.00	20.00	C
ATOM	1548	CG	ASN	257	30.178	15.293	62.235	1.00	20.00	C
ATOM	1549	OD1	ASN	257	30.006	14.196	62.774	1.00	20.00	O
ATOM	1550	ND2	ASN	257	29.605	16.403	62.671	1.00	20.00	N
ATOM	1551	C	ASN	257	32.531	13.457	61.494	1.00	20.00	C
ATOM	1552	O	ASN	257	32.079	12.640	60.692	1.00	20.00	O
ATOM	1553	N	PRO	258	33.064	13.072	62.663	1.00	20.00	N
ATOM	1554	CD	PRO	258	33.628	13.916	63.731	1.00	20.00	C
ATOM	1555	CA	PRO	258	33.159	11.654	63.013	1.00	20.00	C
ATOM	1556	CB	PRO	258	33.935	11.678	64.333	1.00	20.00	C
ATOM	1557	CG	PRO	258	33.561	12.999	64.925	1.00	20.00	C
ATOM	1558	C	PRO	258	31.814	10.948	63.138	1.00	20.00	C
ATOM	1559	O	PRO	258	31.722	9.746	62.880	1.00	20.00	O
ATOM	1560	N	LYS	259	30.770	11.687	63.504	1.00	20.00	N
ATOM	1561	CA	LYS	259	29.456	11.081	63.632	1.00	20.00	C
ATOM	1562	CB	LYS	259	28.532	11.966	64.457	1.00	20.00	C
ATOM	1563	CG	LYS	259	28.806	11.854	65.944	1.00	20.00	C
ATOM	1564	CD	LYS	259	28.054	12.914	66.731	1.00	20.00	C
ATOM	1565	CE	LYS	259	28.158	12.687	68.235	1.00	20.00	C
ATOM	1566	NZ	LYS	259	29.576	12.569	68.692	1.00	20.00	N
ATOM	1567	C	LYS	259	28.893	10.775	62.250	1.00	20.00	C
ATOM	1568	O	LYS	259	28.265	9.732	62.045	1.00	20.00	O
ATOM	1569	N	VAL	260	29.161	11.662	61.292	1.00	20.00	N
ATOM	1570	CA	VAL	260	28.733	11.449	59.904	1.00	20.00	C
ATOM	1571	CB	VAL	260	29.089	12.659	58.991	1.00	20.00	C
ATOM	1572	CG1	VAL	260	28.890	12.300	57.519	1.00	20.00	C
ATOM	1573	CG2	VAL	260	28.222	13.834	59.338	1.00	20.00	C
ATOM	1574	C	VAL	260	29.451	10.192	59.378	1.00	20.00	C
ATOM	1575	O	VAL	260	28.833	9.321	58.752	1.00	20.00	O
ATOM	1576	N	LYS	261	30.755	10.108	59.634	1.00	20.00	N
ATOM	1577	CA	LYS	261	31.548	8.955	59.212	1.00	20.00	C
ATOM	1578	CB	LYS	261	33.014	9.141	59.589	1.00	20.00	C
ATOM	1579	CG	LYS	261	33.705	10.232	58.800	1.00	20.00	C
ATOM	1580	CD	LYS	261	35.146	10.446	59.261	1.00	20.00	C
ATOM	1581	CE	LYS	261	35.856	11.411	58.315	1.00	20.00	C
ATOM	1582	NZ	LYS	261	37.295	11.641	58.647	1.00	20.00	N
ATOM	1583	C	LYS	261	31.020	7.659	59.817	1.00	20.00	C
ATOM	1584	O	LYS	261	30.867	6.652	59.119	1.00	20.00	O
ATOM	1585	N	ALA	262	30.707	7.692	61.109	1.00	20.00	N
ATOM	1586	CA	ALA	262	30.178	6.507	61.793	1.00	20.00	C
ATOM	1587	CB	ALA	262	30.044	6.774	63.282	1.00	20.00	C
ATOM	1588	C	ALA	262	28.832	6.056	61.213	1.00	20.00	C
ATOM	1589	O	ALA	262	28.577	4.859	61.090	1.00	20.00	O
ATOM	1590	N	HIS	263	27.945	7.002	60.909	1.00	20.00	N

ATOM	1591	CA	HIS	263	26.655	6.626	60.336	1.00	20.00	C
ATOM	1592	CB	HIS	263	25.648	7.784	60.325	1.00	20.00	C
ATOM	1593	CG	HIS	263	24.244	7.342	60.041	1.00	20.00	C
ATOM	1594	CD2	HIS	263	23.354	7.722	59.092	1.00	20.00	C
ATOM	1595	ND1	HIS	263	23.627	6.334	60.758	1.00	20.00	N
ATOM	1596	CE1	HIS	263	22.423	6.112	60.258	1.00	20.00	C
ATOM	1597	NE2	HIS	263	22.233	6.941	59.247	1.00	20.00	N
ATOM	1598	C	HIS	263	26.879	6.100	58.921	1.00	20.00	C
ATOM	1599	O	HIS	263	26.235	5.134	58.496	1.00	20.00	O
ATOM	1600	N	GLY	264	27.829	6.708	58.225	1.00	20.00	N
ATOM	1601	CA	GLY	264	28.151	6.283	56.879	1.00	20.00	C
ATOM	1602	C	GLY	264	28.565	4.824	56.821	1.00	20.00	C
ATOM	1603	O	GLY	264	28.079	4.075	55.970	1.00	20.00	O
ATOM	1604	N	LYS	265	29.436	4.401	57.729	1.00	20.00	N
ATOM	1605	CA	LYS	265	29.880	3.017	57.717	1.00	20.00	C
ATOM	1606	CB	LYS	265	31.118	2.811	58.592	1.00	20.00	C
ATOM	1607	CG	LYS	265	30.961	3.206	60.018	1.00	20.00	C
ATOM	1608	CD	LYS	265	32.046	2.589	60.899	1.00	20.00	C
ATOM	1609	CE	LYS	265	31.834	1.083	61.058	1.00	20.00	C
ATOM	1610	NZ	LYS	265	32.598	0.540	62.223	1.00	20.00	N
ATOM	1611	C	LYS	265	28.773	2.043	58.092	1.00	20.00	C
ATOM	1612	O	LYS	265	28.739	0.916	57.602	1.00	20.00	O
ATOM	1613	N	LYS	266	27.853	2.492	58.935	1.00	20.00	N
ATOM	1614	CA	LYS	266	26.729	1.673	59.363	1.00	20.00	C
ATOM	1615	CB	LYS	266	25.999	2.389	60.504	1.00	20.00	C
ATOM	1616	CG	LYS	266	24.850	1.612	61.106	1.00	20.00	C
ATOM	1617	CD	LYS	266	24.155	2.416	62.188	1.00	20.00	C
ATOM	1618	CE	LYS	266	25.118	2.793	63.298	1.00	20.00	C
ATOM	1619	NZ	LYS	266	24.413	3.487	64.403	1.00	20.00	N
ATOM	1620	C	LYS	266	25.781	1.450	58.173	1.00	20.00	C
ATOM	1621	O	LYS	266	25.393	0.316	57.864	1.00	20.00	O
ATOM	1622	N	VAL	267	25.431	2.543	57.496	1.00	20.00	N
ATOM	1623	CA	VAL	267	24.545	2.498	56.337	1.00	20.00	C
ATOM	1624	CB	VAL	267	24.216	3.934	55.855	1.00	20.00	C
ATOM	1625	CG1	VAL	267	23.583	3.906	54.478	1.00	20.00	C
ATOM	1626	CG2	VAL	267	23.284	4.618	56.858	1.00	20.00	C
ATOM	1627	C	VAL	267	25.147	1.660	55.192	1.00	20.00	C
ATOM	1628	O	VAL	267	24.494	0.748	54.678	1.00	20.00	O
ATOM	1629	N	LEU	268	26.397	1.931	54.822	1.00	20.00	N
ATOM	1630	CA	LEU	268	27.051	1.184	53.740	1.00	20.00	C
ATOM	1631	CB	LEU	268	28.354	1.867	53.320	1.00	20.00	C
ATOM	1632	CG	LEU	268	28.343	2.619	51.986	1.00	20.00	C
ATOM	1633	CD1	LEU	268	28.287	1.636	50.861	1.00	20.00	C
ATOM	1634	CD2	LEU	268	27.164	3.586	51.904	1.00	20.00	C
ATOM	1635	C	LEU	268	27.310	-0.281	54.094	1.00	20.00	C
ATOM	1636	O	LEU	268	27.399	-1.135	53.202	1.00	20.00	O
ATOM	1637	N	GLY	269	27.483	-0.572	55.378	1.00	20.00	N
ATOM	1638	CA	GLY	269	27.693	-1.950	55.797	1.00	20.00	C
ATOM	1639	C	GLY	269	26.450	-2.784	55.512	1.00	20.00	C
ATOM	1640	O	GLY	269	26.549	-3.918	55.032	1.00	20.00	O
ATOM	1641	N	ALA	270	25.275	-2.219	55.792	1.00	20.00	N
ATOM	1642	CA	ALA	270	24.008	-2.911	55.548	1.00	20.00	C
ATOM	1643	CB	ALA	270	22.839	-2.130	56.135	1.00	20.00	C
ATOM	1644	C	ALA	270	23.826	-3.069	54.046	1.00	20.00	C
ATOM	1645	O	ALA	270	23.356	-4.101	53.578	1.00	20.00	O
ATOM	1646	N	PHE	271	24.191	-2.033	53.295	1.00	20.00	N
ATOM	1647	CA	PHE	271	24.100	-2.056	51.838	1.00	20.00	C

ATOM	1648	CB	PHE	271	24.569	-0.702	51.285	1.00	20.00	C
ATOM	1649	CG	PHE	271	24.551	-0.613	49.783	1.00	20.00	C
ATOM	1650	CD1	PHE	271	23.397	-0.221	49.110	1.00	20.00	C
ATOM	1651	CD2	PHE	271	25.689	-0.922	49.041	1.00	20.00	C
ATOM	1652	CE1	PHE	271	23.377	-0.138	47.719	1.00	20.00	C
ATOM	1653	CE2	PHE	271	25.679	-0.843	47.654	1.00	20.00	C
ATOM	1654	CZ	PHE	271	24.521	-0.449	46.993	1.00	20.00	C
ATOM	1655	C	PHE	271	24.981	-3.197	51.296	1.00	20.00	C
ATOM	1656	O	PHE	271	24.535	-4.025	50.510	1.00	20.00	O
ATOM	1657	N	SER	272	26.222	-3.247	51.764	1.00	20.00	N
ATOM	1658	CA	SER	272	27.192	-4.261	51.359	1.00	20.00	C
ATOM	1659	CB	SER	272	28.494	-4.049	52.146	1.00	20.00	C
ATOM	1660	OG	SER	272	29.557	-4.843	51.662	1.00	20.00	O
ATOM	1661	C	SER	272	26.630	-5.667	51.588	1.00	20.00	C
ATOM	1662	O	SER	272	26.658	-6.512	50.688	1.00	20.00	O
ATOM	1663	N	ASP	273	26.100	-5.914	52.778	1.00	20.00	N
ATOM	1664	CA	ASP	273	25.515	-7.222	53.090	1.00	20.00	C
ATOM	1665	CB	ASP	273	25.114	-7.307	54.575	1.00	20.00	C
ATOM	1666	CG	ASP	273	26.300	-7.092	55.528	1.00	20.00	C
ATOM	1667	OD1	ASP	273	27.449	-7.470	55.197	1.00	20.00	O
ATOM	1668	OD2	ASP	273	26.082	-6.532	56.624	1.00	20.00	O
ATOM	1669	C	ASP	273	24.308	-7.520	52.173	1.00	20.00	C
ATOM	1670	O	ASP	273	24.032	-8.681	51.855	1.00	20.00	O
ATOM	1671	N	GLY	274	23.624	-6.474	51.722	1.00	20.00	N
ATOM	1672	CA	GLY	274	22.487	-6.650	50.831	1.00	20.00	C
ATOM	1673	C	GLY	274	22.887	-7.178	49.458	1.00	20.00	C
ATOM	1674	O	GLY	274	22.090	-7.816	48.768	1.00	20.00	O
ATOM	1675	N	LEU	275	24.133	-6.922	49.059	1.00	20.00	N
ATOM	1676	CA	LEU	275	24.663	-7.363	47.766	1.00	20.00	C
ATOM	1677	CB	LEU	275	26.043	-6.759	47.529	1.00	20.00	C
ATOM	1678	CG	LEU	275	26.131	-5.417	46.816	1.00	20.00	C
ATOM	1679	CD1	LEU	275	24.852	-4.619	46.953	1.00	20.00	C
ATOM	1680	CD2	LEU	275	27.332	-4.661	47.354	1.00	20.00	C
ATOM	1681	C	LEU	275	24.756	-8.873	47.646	1.00	20.00	C
ATOM	1682	O	LEU	275	24.822	-9.412	46.546	1.00	20.00	O
ATOM	1683	N	ALA	276	24.792	-9.558	48.778	1.00	20.00	N
ATOM	1684	CA	ALA	276	24.871	-11.008	48.768	1.00	20.00	C
ATOM	1685	CB	ALA	276	25.497	-11.494	50.058	1.00	20.00	C
ATOM	1686	C	ALA	276	23.471	-11.597	48.611	1.00	20.00	C
ATOM	1687	O	ALA	276	23.310	-12.817	48.515	1.00	20.00	O
ATOM	1688	N	HIS	277	22.458	-10.732	48.587	1.00	20.00	N
ATOM	1689	CA	HIS	277	21.074	-11.176	48.480	1.00	20.00	C
ATOM	1690	CB	HIS	277	20.383	-11.040	49.835	1.00	20.00	C
ATOM	1691	CG	HIS	277	20.958	-11.937	50.880	1.00	20.00	C
ATOM	1692	CD2	HIS	277	20.887	-13.280	51.031	1.00	20.00	C
ATOM	1693	ND1	HIS	277	21.789	-11.480	51.882	1.00	20.00	N
ATOM	1694	CE1	HIS	277	22.210	-12.503	52.602	1.00	20.00	C
ATOM	1695	NE2	HIS	277	21.677	-13.608	52.107	1.00	20.00	N
ATOM	1696	C	HIS	277	20.296	-10.403	47.445	1.00	20.00	C
ATOM	1697	O	HIS	277	19.128	-10.074	47.664	1.00	20.00	O
ATOM	1698	N	LEU	278	20.930	-10.158	46.300	1.00	20.00	N
ATOM	1699	CA	LEU	278	20.299	-9.413	45.215	1.00	20.00	C
ATOM	1700	CB	LEU	278	21.257	-9.272	44.037	1.00	20.00	C
ATOM	1701	CG	LEU	278	22.048	-7.966	43.927	1.00	20.00	C
ATOM	1702	CD1	LEU	278	21.822	-7.033	45.099	1.00	20.00	C
ATOM	1703	CD2	LEU	278	23.520	-8.287	43.740	1.00	20.00	C
ATOM	1704	C	LEU	278	18.971	-10.006	44.752	1.00	20.00	C

ATOM	1705	O	LEU	278	18.099	-9.263	44.316	1.00	20.00	O
ATOM	1706	N	ASP	279	18.806	-11.326	44.885	1.00	20.00	N
ATOM	1707	CA	ASP	279	17.569	-12.021	44.489	1.00	20.00	C
ATOM	1708	CB	ASP	279	17.809	-13.527	44.295	1.00	20.00	C
ATOM	1709	CG	ASP	279	18.774	-13.840	43.167	1.00	20.00	C
ATOM	1710	OD1	ASP	279	19.551	-14.810	43.328	1.00	20.00	O
ATOM	1711	OD2	ASP	279	18.745	-13.146	42.121	1.00	20.00	O
ATOM	1712	C	ASP	279	16.428	-11.871	45.494	1.00	20.00	C
ATOM	1713	O	ASP	279	15.296	-12.224	45.199	1.00	20.00	O
ATOM	1714	N	ASN	280	16.726	-11.380	46.690	1.00	20.00	N
ATOM	1715	CA	ASN	280	15.701	-11.215	47.720	1.00	20.00	C
ATOM	1716	CB	ASN	280	15.702	-12.445	48.650	1.00	20.00	C
ATOM	1717	CG	ASN	280	14.634	-12.374	49.745	1.00	20.00	C
ATOM	1718	OD1	ASN	280	13.540	-11.827	49.543	1.00	20.00	O
ATOM	1719	ND2	ASN	280	14.957	-12.916	50.915	1.00	20.00	N
ATOM	1720	C	ASN	280	15.973	-9.943	48.512	1.00	20.00	C
ATOM	1721	O	ASN	280	16.178	-9.982	49.721	1.00	20.00	O
ATOM	1722	N	LEU	281	16.000	-8.807	47.827	1.00	20.00	N
ATOM	1723	CA	LEU	281	16.259	-7.540	48.511	1.00	20.00	C
ATOM	1724	CB	LEU	281	16.527	-6.401	47.505	1.00	20.00	C
ATOM	1725	CG	LEU	281	17.869	-6.393	46.750	1.00	20.00	C
ATOM	1726	CD1	LEU	281	17.916	-5.270	45.699	1.00	20.00	C
ATOM	1727	CD2	LEU	281	19.022	-6.253	47.734	1.00	20.00	C
ATOM	1728	C	LEU	281	15.125	-7.153	49.468	1.00	20.00	C
ATOM	1729	O	LEU	281	15.369	-6.654	50.569	1.00	20.00	O
ATOM	1730	N	LYS	282	13.885	-7.404	49.064	1.00	20.00	N
ATOM	1731	CA	LYS	282	12.745	-7.051	49.902	1.00	20.00	C
ATOM	1732	CB	LYS	282	11.436	-7.334	49.185	1.00	20.00	C
ATOM	1733	CG	LYS	282	11.064	-6.290	48.170	1.00	20.00	C
ATOM	1734	CD	LYS	282	9.648	-6.539	47.759	1.00	20.00	C
ATOM	1735	CE	LYS	282	9.228	-5.688	46.590	1.00	20.00	C
ATOM	1736	NZ	LYS	282	7.839	-6.089	46.228	1.00	20.00	N
ATOM	1737	C	LYS	282	12.765	-7.766	51.229	1.00	20.00	C
ATOM	1738	O	LYS	282	12.602	-7.151	52.278	1.00	20.00	O
ATOM	1739	N	GLY	283	12.957	-9.075	51.183	1.00	20.00	N
ATOM	1740	CA	GLY	283	13.011	-9.834	52.416	1.00	20.00	C
ATOM	1741	C	GLY	283	14.195	-9.410	53.269	1.00	20.00	C
ATOM	1742	O	GLY	283	14.086	-9.374	54.488	1.00	20.00	O
ATOM	1743	N	THR	284	15.316	-9.081	52.629	1.00	20.00	N
ATOM	1744	CA	THR	284	16.526	-8.660	53.323	1.00	20.00	C
ATOM	1745	CB	THR	284	17.725	-8.522	52.330	1.00	20.00	C
ATOM	1746	OG1	THR	284	18.053	-9.802	51.775	1.00	20.00	O
ATOM	1747	CG2	THR	284	18.954	-7.947	53.019	1.00	20.00	C
ATOM	1748	C	THR	284	16.362	-7.330	54.069	1.00	20.00	C
ATOM	1749	O	THR	284	16.913	-7.158	55.153	1.00	20.00	O
ATOM	1750	N	PHE	285	15.597	-6.401	53.498	1.00	20.00	N
ATOM	1751	CA	PHE	285	15.401	-5.075	54.092	1.00	20.00	C
ATOM	1752	CB	PHE	285	15.760	-3.983	53.067	1.00	20.00	C
ATOM	1753	CG	PHE	285	17.221	-3.940	52.711	1.00	20.00	C
ATOM	1754	CD1	PHE	285	17.663	-4.393	51.470	1.00	20.00	C
ATOM	1755	CD2	PHE	285	18.157	-3.474	53.623	1.00	20.00	C
ATOM	1756	CE1	PHE	285	19.018	-4.384	51.146	1.00	20.00	C
ATOM	1757	CE2	PHE	285	19.511	-3.460	53.306	1.00	20.00	C
ATOM	1758	CZ	PHE	285	19.940	-3.922	52.063	1.00	20.00	C
ATOM	1759	C	PHE	285	14.019	-4.778	54.693	1.00	20.00	C
ATOM	1760	O	PHE	285	13.759	-3.649	55.113	1.00	20.00	O
ATOM	1761	N	ALA	286	13.177	-5.798	54.819	1.00	20.00	N

ATOM	1762	CA	ALA	286	11.833	-5.621	55.369	1.00	20.00	C
ATOM	1763	CB	ALA	286	11.102	-6.956	55.439	1.00	20.00	C
ATOM	1764	C	ALA	286	11.844	-4.961	56.735	1.00	20.00	C
ATOM	1765	O	ALA	286	11.164	-3.959	56.949	1.00	20.00	O
ATOM	1766	N	THR	287	12.641	-5.497	57.654	1.00	20.00	N
ATOM	1767	CA	THR	287	12.711	-4.930	58.991	1.00	20.00	C
ATOM	1768	CB	THR	287	13.507	-5.828	59.936	1.00	20.00	C
ATOM	1769	OG1	THR	287	13.046	-7.178	59.781	1.00	20.00	O
ATOM	1770	CG2	THR	287	13.280	-5.396	61.396	1.00	20.00	C
ATOM	1771	C	THR	287	13.274	-3.506	59.012	1.00	20.00	C
ATOM	1772	O	THR	287	12.757	-2.647	59.739	1.00	20.00	O
ATOM	1773	N	LEU	288	14.307	-3.238	58.213	1.00	20.00	N
ATOM	1774	CA	LEU	288	14.862	-1.893	58.170	1.00	20.00	C
ATOM	1775	CB	LEU	288	16.158	-1.841	57.375	1.00	20.00	C
ATOM	1776	CG	LEU	288	17.408	-2.286	58.129	1.00	20.00	C
ATOM	1777	CD1	LEU	288	18.603	-2.291	57.192	1.00	20.00	C
ATOM	1778	CD2	LEU	288	17.653	-1.344	59.296	1.00	20.00	C
ATOM	1779	C	LEU	288	13.847	-0.950	57.558	1.00	20.00	C
ATOM	1780	O	LEU	288	13.792	0.223	57.928	1.00	20.00	O
ATOM	1781	N	SER	289	13.026	-1.465	56.643	1.00	20.00	N
ATOM	1782	CA	SER	289	12.008	-0.640	55.998	1.00	20.00	C
ATOM	1783	CB	SER	289	11.269	-1.425	54.899	1.00	20.00	C
ATOM	1784	OG	SER	289	10.276	-0.614	54.263	1.00	20.00	O
ATOM	1785	C	SER	289	11.030	-0.157	57.062	1.00	20.00	C
ATOM	1786	O	SER	289	10.732	1.046	57.160	1.00	20.00	O
ATOM	1787	N	GLU	290	10.564	-1.093	57.881	1.00	20.00	N
ATOM	1788	CA	GLU	290	9.629	-0.755	58.947	1.00	20.00	C
ATOM	1789	CB	GLU	290	9.190	-2.011	59.694	1.00	20.00	C
ATOM	1790	CG	GLU	290	8.252	-2.876	58.889	1.00	20.00	C
ATOM	1791	CD	GLU	290	7.787	-4.095	59.655	1.00	20.00	C
ATOM	1792	OE1	GLU	290	7.664	-4.012	60.904	1.00	20.00	O
ATOM	1793	OE2	GLU	290	7.547	-5.135	59.000	1.00	20.00	O
ATOM	1794	C	GLU	290	10.209	0.245	59.925	1.00	20.00	C
ATOM	1795	O	GLU	290	9.525	1.187	60.320	1.00	20.00	O
ATOM	1796	N	LEU	291	11.465	0.038	60.315	1.00	20.00	N
ATOM	1797	CA	LEU	291	12.134	0.939	61.246	1.00	20.00	C
ATOM	1798	CB	LEU	291	13.528	0.430	61.589	1.00	20.00	C
ATOM	1799	CG	LEU	291	14.279	1.340	62.568	1.00	20.00	C
ATOM	1800	CD1	LEU	291	13.575	1.302	63.926	1.00	20.00	C
ATOM	1801	CD2	LEU	291	15.721	0.892	62.713	1.00	20.00	C
ATOM	1802	C	LEU	291	12.252	2.351	60.680	1.00	20.00	C
ATOM	1803	O	LEU	291	11.979	3.328	61.379	1.00	20.00	O
ATOM	1804	N	HIS	292	12.648	2.472	59.420	1.00	20.00	N
ATOM	1805	CA	HIS	292	12.792	3.801	58.821	1.00	20.00	C
ATOM	1806	CB	HIS	292	13.521	3.718	57.477	1.00	20.00	C
ATOM	1807	CG	HIS	292	14.998	3.485	57.608	1.00	20.00	C
ATOM	1808	ND1	HIS	292	15.573	2.253	57.838	1.00	20.00	N
ATOM	1809	CD2	HIS	292	16.032	4.358	57.510	1.00	20.00	C
ATOM	1810	NE2	HIS	292	17.231	3.672	57.673	1.00	20.00	N
ATOM	1811	CE1	HIS	292	16.898	2.411	57.870	1.00	20.00	C
ATOM	1812	C	HIS	292	11.460	4.555	58.681	1.00	20.00	C
ATOM	1813	O	HIS	292	11.421	5.788	58.723	1.00	20.00	O
ATOM	1814	N	CYS	293	10.374	3.809	58.521	1.00	20.00	N
ATOM	1815	CA	CYS	293	9.053	4.415	58.409	1.00	20.00	C
ATOM	1816	CB	CYS	293	8.077	3.476	57.682	1.00	20.00	C
ATOM	1817	SG	CYS	293	6.370	4.122	57.624	1.00	20.00	S
ATOM	1818	C	CYS	293	8.462	4.758	59.775	1.00	20.00	C

ATOM	1819	O	CYS	293	8.233	5.928	60.096	1.00	20.00	O
ATOM	1820	N	ASP	294	8.283	3.739	60.607	1.00	20.00	N
ATOM	1821	CA	ASP	294	7.648	3.925	61.913	1.00	20.00	C
ATOM	1822	CB	ASP	294	7.135	2.585	62.457	1.00	20.00	C
ATOM	1823	CG	ASP	294	6.138	1.914	61.523	1.00	20.00	C
ATOM	1824	OD1	ASP	294	5.289	2.611	60.923	1.00	20.00	O
ATOM	1825	OD2	ASP	294	6.204	0.678	61.393	1.00	20.00	O
ATOM	1826	C	ASP	294	8.413	4.659	63.004	1.00	20.00	C
ATOM	1827	O	ASP	294	7.815	5.423	63.767	1.00	20.00	O
ATOM	1828	N	LYS	295	9.723	4.471	63.076	1.00	20.00	N
ATOM	1829	CA	LYS	295	10.482	5.129	64.130	1.00	20.00	C
ATOM	1830	CB	LYS	295	11.312	4.092	64.900	1.00	20.00	C
ATOM	1831	CG	LYS	295	10.460	3.061	65.618	1.00	20.00	C
ATOM	1832	CD	LYS	295	9.400	3.773	66.464	1.00	20.00	C
ATOM	1833	CE	LYS	295	8.421	2.797	67.091	1.00	20.00	C
ATOM	1834	NZ	LYS	295	9.131	1.875	68.010	1.00	20.00	N
ATOM	1835	C	LYS	295	11.358	6.287	63.689	1.00	20.00	C
ATOM	1836	O	LYS	295	11.416	7.318	64.353	1.00	20.00	O
ATOM	1837	N	LEU	296	11.998	6.150	62.534	1.00	20.00	N
ATOM	1838	CA	LEU	296	12.889	7.195	62.070	1.00	20.00	C
ATOM	1839	CB	LEU	296	14.086	6.564	61.355	1.00	20.00	C
ATOM	1840	CG	LEU	296	14.730	5.402	62.150	1.00	20.00	C
ATOM	1841	CD1	LEU	296	15.803	4.700	61.321	1.00	20.00	C
ATOM	1842	CD2	LEU	296	15.302	5.906	63.481	1.00	20.00	C
ATOM	1843	C	LEU	296	12.220	8.278	61.229	1.00	20.00	C
ATOM	1844	O	LEU	296	12.725	9.392	61.149	1.00	20.00	O
ATOM	1845	N	HIS	297	11.078	7.963	60.616	1.00	20.00	N
ATOM	1846	CA	HIS	297	10.331	8.925	59.780	1.00	20.00	C
ATOM	1847	CB	HIS	297	9.773	10.071	60.641	1.00	20.00	C
ATOM	1848	CG	HIS	297	9.177	9.609	61.935	1.00	20.00	C
ATOM	1849	CD2	HIS	297	9.611	9.736	63.210	1.00	20.00	C
ATOM	1850	ND1	HIS	297	8.039	8.833	61.996	1.00	20.00	N
ATOM	1851	CE1	HIS	297	7.801	8.491	63.247	1.00	20.00	C
ATOM	1852	NE2	HIS	297	8.741	9.027	64.005	1.00	20.00	N
ATOM	1853	C	HIS	297	11.174	9.485	58.628	1.00	20.00	C
ATOM	1854	O	HIS	297	11.196	10.701	58.372	1.00	20.00	O
ATOM	1855	N	VAL	298	11.842	8.584	57.912	1.00	20.00	N
ATOM	1856	CA	VAL	298	12.697	8.984	56.795	1.00	20.00	C
ATOM	1857	CB	VAL	298	13.966	8.094	56.721	1.00	20.00	C
ATOM	1858	CG1	VAL	298	14.819	8.465	55.491	1.00	20.00	C
ATOM	1859	CG2	VAL	298	14.790	8.256	57.994	1.00	20.00	C
ATOM	1860	C	VAL	298	11.926	8.895	55.476	1.00	20.00	C
ATOM	1861	O	VAL	298	11.489	7.815	55.075	1.00	20.00	O
ATOM	1862	N	ASP	299	11.736	10.038	54.824	1.00	20.00	N
ATOM	1863	CA	ASP	299	11.045	10.093	53.537	1.00	20.00	C
ATOM	1864	CB	ASP	299	11.074	11.545	53.031	1.00	20.00	C
ATOM	1865	CG	ASP	299	10.392	11.725	51.668	1.00	20.00	C
ATOM	1866	OD1	ASP	299	10.194	12.894	51.269	1.00	20.00	O
ATOM	1867	OD2	ASP	299	10.069	10.723	50.987	1.00	20.00	O
ATOM	1868	C	ASP	299	11.846	9.185	52.589	1.00	20.00	C
ATOM	1869	O	ASP	299	13.050	9.387	52.419	1.00	20.00	O
ATOM	1870	N	PRO	300	11.197	8.174	51.964	1.00	20.00	N
ATOM	1871	CD	PRO	300	9.814	7.707	52.161	1.00	20.00	C
ATOM	1872	CA	PRO	300	11.927	7.278	51.053	1.00	20.00	C
ATOM	1873	CB	PRO	300	10.826	6.369	50.504	1.00	20.00	C
ATOM	1874	CG	PRO	300	9.883	6.273	51.661	1.00	20.00	C
ATOM	1875	C	PRO	300	12.722	7.972	49.933	1.00	20.00	C

ATOM	1876	O	PRO	300	13.630	7.366	49.366	1.00	20.00	O
ATOM	1877	N	GLU	301	12.379	9.223	49.605	1.00	20.00	N
ATOM	1878	CA	GLU	301	13.124	9.971	48.584	1.00	20.00	C
ATOM	1879	CB	GLU	301	12.566	11.378	48.397	1.00	20.00	C
ATOM	1880	CG	GLU	301	11.369	11.439	47.482	1.00	20.00	C
ATOM	1881	CD	GLU	301	11.606	10.740	46.143	1.00	20.00	C
ATOM	1882	OE1	GLU	301	10.799	9.850	45.796	1.00	20.00	O
ATOM	1883	OE2	GLU	301	12.598	11.070	45.454	1.00	20.00	O
ATOM	1884	C	GLU	301	14.605	10.076	48.931	1.00	20.00	C
ATOM	1885	O	GLU	301	15.453	10.124	48.040	1.00	20.00	O
ATOM	1886	N	ASN	302	14.908	10.126	50.230	1.00	20.00	N
ATOM	1887	CA	ASN	302	16.282	10.205	50.726	1.00	20.00	C
ATOM	1888	CB	ASN	302	16.303	10.266	52.257	1.00	20.00	C
ATOM	1889	CG	ASN	302	15.813	11.600	52.803	1.00	20.00	C
ATOM	1890	OD1	ASN	302	16.456	12.626	52.610	1.00	20.00	O
ATOM	1891	ND2	ASN	302	14.689	11.586	53.516	1.00	20.00	N
ATOM	1892	C	ASN	302	17.100	9.007	50.256	1.00	20.00	C
ATOM	1893	O	ASN	302	18.275	9.147	49.945	1.00	20.00	O
ATOM	1894	N	PHE	303	16.487	7.830	50.207	1.00	20.00	N
ATOM	1895	CA	PHE	303	17.185	6.626	49.754	1.00	20.00	C
ATOM	1896	CB	PHE	303	16.309	5.369	49.885	1.00	20.00	C
ATOM	1897	CG	PHE	303	15.698	5.163	51.250	1.00	20.00	C
ATOM	1898	CD1	PHE	303	16.414	5.438	52.418	1.00	20.00	C
ATOM	1899	CD2	PHE	303	14.404	4.653	51.363	1.00	20.00	C
ATOM	1900	CE1	PHE	303	15.840	5.207	53.689	1.00	20.00	C
ATOM	1901	CE2	PHE	303	13.826	4.420	52.613	1.00	20.00	C
ATOM	1902	CZ	PHE	303	14.547	4.696	53.779	1.00	20.00	C
ATOM	1903	C	PHE	303	17.599	6.768	48.286	1.00	20.00	C
ATOM	1904	O	PHE	303	18.638	6.249	47.888	1.00	20.00	O
ATOM	1905	N	ARG	304	16.749	7.397	47.470	1.00	20.00	N
ATOM	1906	CA	ARG	304	17.058	7.601	46.052	1.00	20.00	C
ATOM	1907	CB	ARG	304	15.879	8.262	45.343	1.00	20.00	C
ATOM	1908	CG	ARG	304	14.998	7.428	44.565	1.00	20.00	C
ATOM	1909	CD	ARG	304	13.609	7.751	44.455	1.00	20.00	C
ATOM	1910	NE	ARG	304	12.878	6.651	45.105	1.00	20.00	N
ATOM	1911	CZ	ARG	304	11.852	6.034	44.853	1.00	20.00	C
ATOM	1912	NH1	ARG	304	11.428	5.204	45.873	1.00	20.00	N
ATOM	1913	NH2	ARG	304	10.971	6.593	44.039	1.00	20.00	N
ATOM	1914	C	ARG	304	18.234	8.568	45.916	1.00	20.00	C
ATOM	1915	O	ARG	304	19.154	8.329	45.135	1.00	20.00	O
ATOM	1916	N	LEU	305	18.183	9.668	46.660	1.00	20.00	N
ATOM	1917	CA	LEU	305	19.254	10.646	46.620	1.00	20.00	C
ATOM	1918	CB	LEU	305	18.950	11.800	47.563	1.00	20.00	C
ATOM	1919	CG	LEU	305	17.784	12.716	47.180	1.00	20.00	C
ATOM	1920	CD1	LEU	305	17.589	13.761	48.283	1.00	20.00	C
ATOM	1921	CD2	LEU	305	18.059	13.405	45.848	1.00	20.00	C
ATOM	1922	C	LEU	305	20.582	9.988	47.004	1.00	20.00	C
ATOM	1923	O	LEU	305	21.591	10.189	46.331	1.00	20.00	O
ATOM	1924	N	LEU	306	20.577	9.191	48.072	1.00	20.00	N
ATOM	1925	CA	LEU	306	21.804	8.525	48.505	1.00	20.00	C
ATOM	1926	CB	LEU	306	21.607	7.766	49.816	1.00	20.00	C
ATOM	1927	CG	LEU	306	22.871	7.058	50.341	1.00	20.00	C
ATOM	1928	CD1	LEU	306	23.938	8.080	50.747	1.00	20.00	C
ATOM	1929	CD2	LEU	306	22.520	6.166	51.512	1.00	20.00	C
ATOM	1930	C	LEU	306	22.288	7.562	47.433	1.00	20.00	C
ATOM	1931	O	LEU	306	23.495	7.443	47.203	1.00	20.00	O
ATOM	1932	N	GLY	307	21.347	6.859	46.800	1.00	20.00	N

ATOM	1933	CA	GLY	307	21.696	5.934	45.735	1.00	20.00	C
ATOM	1934	C	GLY	307	22.431	6.633	44.597	1.00	20.00	C
ATOM	1935	O	GLY	307	23.437	6.120	44.102	1.00	20.00	O
ATOM	1936	N	ASN	308	21.973	7.820	44.208	1.00	20.00	N
ATOM	1937	CA	ASN	308	22.633	8.547	43.121	1.00	20.00	C
ATOM	1938	CB	ASN	308	21.742	9.664	42.580	1.00	20.00	C
ATOM	1939	CG	ASN	308	20.499	9.134	41.889	1.00	20.00	C
ATOM	1940	OD1	ASN	308	20.483	8.008	41.378	1.00	20.00	O
ATOM	1941	ND2	ASN	308	19.463	9.960	41.836	1.00	20.00	N
ATOM	1942	C	ASN	308	23.981	9.108	43.550	1.00	20.00	C
ATOM	1943	O	ASN	308	24.931	9.102	42.768	1.00	20.00	O
ATOM	1944	N	VAL	309	24.062	9.590	44.786	1.00	20.00	N
ATOM	1945	CA	VAL	309	25.312	10.131	45.324	1.00	20.00	C
ATOM	1946	CB	VAL	309	25.113	10.765	46.740	1.00	20.00	C
ATOM	1947	CG1	VAL	309	26.447	11.047	47.394	1.00	20.00	C
ATOM	1948	CG2	VAL	309	24.315	12.070	46.628	1.00	20.00	C
ATOM	1949	C	VAL	309	26.349	8.998	45.377	1.00	20.00	C
ATOM	1950	O	VAL	309	27.523	9.205	45.038	1.00	20.00	O
ATOM	1951	N	LEU	310	25.904	7.796	45.753	1.00	20.00	N
ATOM	1952	CA	LEU	310	26.793	6.633	45.805	1.00	20.00	C
ATOM	1953	CB	LEU	310	26.065	5.397	46.348	1.00	20.00	C
ATOM	1954	CG	LEU	310	26.934	4.127	46.423	1.00	20.00	C
ATOM	1955	CD1	LEU	310	28.212	4.367	47.227	1.00	20.00	C
ATOM	1956	CD2	LEU	310	26.133	2.982	47.022	1.00	20.00	C
ATOM	1957	C	LEU	310	27.370	6.317	44.418	1.00	20.00	C
ATOM	1958	O	LEU	310	28.563	6.027	44.294	1.00	20.00	O
ATOM	1959	N	VAL	311	26.528	6.366	43.383	1.00	20.00	N
ATOM	1960	CA	VAL	311	26.982	6.103	42.020	1.00	20.00	C
ATOM	1961	CB	VAL	311	25.787	6.057	41.030	1.00	20.00	C
ATOM	1962	CG1	VAL	311	26.285	5.970	39.568	1.00	20.00	C
ATOM	1963	CG2	VAL	311	24.924	4.830	41.341	1.00	20.00	C
ATOM	1964	C	VAL	311	28.048	7.138	41.615	1.00	20.00	C
ATOM	1965	O	VAL	311	29.068	6.783	41.002	1.00	20.00	O
ATOM	1966	N	CYS	312	27.854	8.401	42.000	1.00	20.00	N
ATOM	1967	CA	CYS	312	28.844	9.435	41.690	1.00	20.00	C
ATOM	1968	CB	CYS	312	28.342	10.825	42.085	1.00	20.00	C
ATOM	1969	SG	CYS	312	27.010	11.458	41.044	1.00	20.00	S
ATOM	1970	C	CYS	312	30.149	9.151	42.433	1.00	20.00	C
ATOM	1971	O	CYS	312	31.242	9.375	41.900	1.00	20.00	O
ATOM	1972	N	VAL	313	30.037	8.671	43.670	1.00	20.00	N
ATOM	1973	CA	VAL	313	31.220	8.352	44.469	1.00	20.00	C
ATOM	1974	CB	VAL	313	30.855	8.068	45.943	1.00	20.00	C
ATOM	1975	CG1	VAL	313	32.044	7.517	46.689	1.00	20.00	C
ATOM	1976	CG2	VAL	313	30.426	9.371	46.612	1.00	20.00	C
ATOM	1977	C	VAL	313	32.020	7.199	43.851	1.00	20.00	C
ATOM	1978	O	VAL	313	33.256	7.273	43.761	1.00	20.00	O
ATOM	1979	N	LEU	314	31.323	6.169	43.378	1.00	20.00	N
ATOM	1980	CA	LEU	314	31.993	5.041	42.751	1.00	20.00	C
ATOM	1981	CB	LEU	314	31.000	3.919	42.460	1.00	20.00	C
ATOM	1982	CG	LEU	314	30.385	3.294	43.711	1.00	20.00	C
ATOM	1983	CD1	LEU	314	29.254	2.372	43.323	1.00	20.00	C
ATOM	1984	CD2	LEU	314	31.450	2.547	44.508	1.00	20.00	C
ATOM	1985	C	LEU	314	32.692	5.496	41.474	1.00	20.00	C
ATOM	1986	O	LEU	314	33.830	5.084	41.203	1.00	20.00	O
ATOM	1987	N	ALA	315	32.041	6.387	40.724	1.00	20.00	N
ATOM	1988	CA	ALA	315	32.618	6.904	39.481	1.00	20.00	C
ATOM	1989	CB	ALA	315	31.600	7.773	38.738	1.00	20.00	C

ATOM	1990	C	ALA	315	33.891	7.703	39.786	1.00	20.00	C
ATOM	1991	O	ALA	315	34.903	7.560	39.106	1.00	20.00	O
ATOM	1992	N	HIS	316	33.831	8.547	40.813	1.00	20.00	N
ATOM	1993	CA	HIS	316	34.981	9.351	41.212	1.00	20.00	C
ATOM	1994	CB	HIS	316	34.573	10.362	42.281	1.00	20.00	C
ATOM	1995	CG	HIS	316	35.677	11.285	42.695	1.00	20.00	C
ATOM	1996	CD2	HIS	316	36.406	12.181	41.990	1.00	20.00	C
ATOM	1997	ND1	HIS	316	36.124	11.372	43.997	1.00	20.00	N
ATOM	1998	CE1	HIS	316	37.078	12.282	44.074	1.00	20.00	C
ATOM	1999	NE2	HIS	316	37.265	12.787	42.872	1.00	20.00	N
ATOM	2000	C	HIS	316	36.110	8.459	41.733	1.00	20.00	C
ATOM	2001	O	HIS	316	37.282	8.698	41.443	1.00	20.00	O
ATOM	2002	N	HIS	317	35.762	7.422	42.487	1.00	20.00	N
ATOM	2003	CA	HIS	317	36.770	6.517	43.033	1.00	20.00	C
ATOM	2004	CB	HIS	317	36.189	5.658	44.175	1.00	20.00	C
ATOM	2005	CG	HIS	317	36.490	6.205	45.548	1.00	20.00	C
ATOM	2006	CD2	HIS	317	37.336	5.752	46.512	1.00	20.00	C
ATOM	2007	ND1	HIS	317	35.911	7.336	46.068	1.00	20.00	N
ATOM	2008	CE1	HIS	317	36.369	7.567	47.258	1.00	20.00	C
ATOM	2009	NE2	HIS	317	37.238	6.630	47.569	1.00	20.00	N
ATOM	2010	C	HIS	317	37.419	5.592	41.999	1.00	20.00	C
ATOM	2011	O	HIS	317	38.630	5.357	42.058	1.00	20.00	O
ATOM	2012	N	PHE	318	36.617	5.073	41.067	1.00	20.00	N
ATOM	2013	CA	PHE	318	37.106	4.139	40.059	1.00	20.00	C
ATOM	2014	CB	PHE	318	36.145	2.960	39.961	1.00	20.00	C
ATOM	2015	CG	PHE	318	36.172	2.103	41.182	1.00	20.00	C
ATOM	2016	CD1	PHE	318	35.128	2.132	42.094	1.00	20.00	C
ATOM	2017	CD2	PHE	318	37.297	1.323	41.470	1.00	20.00	C
ATOM	2018	CE1	PHE	318	35.211	1.406	43.290	1.00	20.00	C
ATOM	2019	CE2	PHE	318	37.389	0.595	42.663	1.00	20.00	C
ATOM	2020	CZ	PHE	318	36.345	0.637	43.571	1.00	20.00	C
ATOM	2021	C	PHE	318	37.473	4.659	38.683	1.00	20.00	C
ATOM	2022	O	PHE	318	38.103	3.934	37.899	1.00	20.00	O
ATOM	2023	N	GLY	319	37.091	5.902	38.389	1.00	20.00	N
ATOM	2024	CA	GLY	319	37.394	6.490	37.095	1.00	20.00	C
ATOM	2025	C	GLY	319	36.854	5.697	35.908	1.00	20.00	C
ATOM	2026	O	GLY	319	35.721	5.200	35.926	1.00	20.00	O
ATOM	2027	N	LYS	320	37.727	5.474	34.931	1.00	20.00	N
ATOM	2028	CA	LYS	320	37.379	4.775	33.700	1.00	20.00	C
ATOM	2029	CB	LYS	320	38.540	4.819	32.689	1.00	20.00	C
ATOM	2030	CG	LYS	320	39.778	4.026	33.073	1.00	20.00	C
ATOM	2031	CD	LYS	320	40.772	3.989	31.921	1.00	20.00	C
ATOM	2032	CE	LYS	320	42.058	3.272	32.321	1.00	20.00	C
ATOM	2033	NZ	LYS	320	41.937	1.791	32.486	1.00	20.00	N
ATOM	2034	C	LYS	320	36.909	3.345	33.893	1.00	20.00	C
ATOM	2035	O	LYS	320	36.242	2.785	33.023	1.00	20.00	O
ATOM	2036	N	GLU	321	37.268	2.741	35.019	1.00	20.00	N
ATOM	2037	CA	GLU	321	36.841	1.389	35.284	1.00	20.00	C
ATOM	2038	CB	GLU	321	37.584	0.864	36.502	1.00	20.00	C
ATOM	2039	CG	GLU	321	37.491	-0.617	36.698	1.00	20.00	C
ATOM	2040	CD	GLU	321	38.500	-1.136	37.715	1.00	20.00	C
ATOM	2041	OE1	GLU	321	38.196	-2.159	38.369	1.00	20.00	O
ATOM	2042	OE2	GLU	321	39.599	-0.541	37.847	1.00	20.00	O
ATOM	2043	C	GLU	321	35.319	1.371	35.505	1.00	20.00	C
ATOM	2044	O	GLU	321	34.674	0.339	35.337	1.00	20.00	O
ATOM	2045	N	PHE	322	34.748	2.516	35.883	1.00	20.00	N
ATOM	2046	CA	PHE	322	33.306	2.613	36.115	1.00	20.00	C

ATOM	2047	CB	PHE	322	33.007	3.722	37.141	1.00	20.00	C
ATOM	2048	CG	PHE	322	31.617	3.652	37.731	1.00	20.00	C
ATOM	2049	CD1	PHE	322	31.250	2.578	38.547	1.00	20.00	C
ATOM	2050	CD2	PHE	322	30.667	4.624	37.428	1.00	20.00	C
ATOM	2051	CE1	PHE	322	29.946	2.464	39.068	1.00	20.00	C
ATOM	2052	CE2	PHE	322	29.368	4.531	37.933	1.00	20.00	C
ATOM	2053	CZ	PHE	322	29.000	3.436	38.756	1.00	20.00	C
ATOM	2054	C	PHE	322	32.684	2.928	34.749	1.00	20.00	C
ATOM	2055	O	PHE	322	32.249	4.044	34.479	1.00	20.00	O
ATOM	2056	N	THR	323	32.661	1.926	33.884	1.00	20.00	N
ATOM	2057	CA	THR	323	32.166	2.092	32.527	1.00	20.00	C
ATOM	2058	CB	THR	323	32.490	0.842	31.721	1.00	20.00	C
ATOM	2059	OG1	THR	323	31.876	-0.274	32.367	1.00	20.00	O
ATOM	2060	CG2	THR	323	33.980	0.608	31.639	1.00	20.00	C
ATOM	2061	C	THR	323	30.650	2.289	32.469	1.00	20.00	C
ATOM	2062	O	THR	323	29.946	2.023	33.447	1.00	20.00	O
ATOM	2063	N	PRO	324	30.127	2.724	31.302	1.00	20.00	N
ATOM	2064	CD	PRO	324	30.829	3.331	30.145	1.00	20.00	C
ATOM	2065	CA	PRO	324	28.674	2.911	31.193	1.00	20.00	C
ATOM	2066	CB	PRO	324	28.497	3.362	29.738	1.00	20.00	C
ATOM	2067	CG	PRO	324	29.751	4.218	29.515	1.00	20.00	C
ATOM	2068	C	PRO	324	27.878	1.641	31.550	1.00	20.00	C
ATOM	2069	O	PRO	324	26.815	1.736	32.172	1.00	20.00	O
ATOM	2070	N	PRO	325	28.367	0.438	31.165	1.00	20.00	N
ATOM	2071	CD	PRO	325	29.446	0.122	30.204	1.00	20.00	C
ATOM	2072	CA	PRO	325	27.616	-0.779	31.514	1.00	20.00	C
ATOM	2073	CB	PRO	325	28.343	-1.880	30.730	1.00	20.00	C
ATOM	2074	CG	PRO	325	28.965	-1.151	29.579	1.00	20.00	C
ATOM	2075	C	PRO	325	27.666	-1.076	33.028	1.00	20.00	C
ATOM	2076	O	PRO	325	26.691	-1.563	33.608	1.00	20.00	O
ATOM	2077	N	VAL	326	28.817	-0.834	33.656	1.00	20.00	N
ATOM	2078	CA	VAL	326	28.951	-1.064	35.090	1.00	20.00	C
ATOM	2079	CB	VAL	326	30.428	-0.936	35.548	1.00	20.00	C
ATOM	2080	CG1	VAL	326	30.535	-0.917	37.088	1.00	20.00	C
ATOM	2081	CG2	VAL	326	31.215	-2.126	35.019	1.00	20.00	C
ATOM	2082	C	VAL	326	28.012	-0.091	35.824	1.00	20.00	C
ATOM	2083	O	VAL	326	27.301	-0.498	36.750	1.00	20.00	O
ATOM	2084	N	GLN	327	27.950	1.166	35.371	1.00	20.00	N
ATOM	2085	CA	GLN	327	27.048	2.143	35.974	1.00	20.00	C
ATOM	2086	CB	GLN	327	27.152	3.517	35.308	1.00	20.00	C
ATOM	2087	CG	GLN	327	25.977	4.411	35.689	1.00	20.00	C
ATOM	2088	CD	GLN	327	25.981	5.750	34.994	1.00	20.00	C
ATOM	2089	OE1	GLN	327	26.867	6.057	34.206	1.00	20.00	O
ATOM	2090	NE2	GLN	327	25.006	6.570	35.318	1.00	20.00	N
ATOM	2091	C	GLN	327	25.606	1.671	35.846	1.00	20.00	C
ATOM	2092	O	GLN	327	24.837	1.801	36.787	1.00	20.00	O
ATOM	2093	N	ALA	328	25.226	1.171	34.668	1.00	20.00	N
ATOM	2094	CA	ALA	328	23.865	0.699	34.448	1.00	20.00	C
ATOM	2095	CB	ALA	328	23.689	0.206	33.031	1.00	20.00	C
ATOM	2096	C	ALA	328	23.517	-0.404	35.452	1.00	20.00	C
ATOM	2097	O	ALA	328	22.435	-0.399	36.038	1.00	20.00	O
ATOM	2098	N	ALA	329	24.458	-1.323	35.675	1.00	20.00	N
ATOM	2099	CA	ALA	329	24.261	-2.411	36.627	1.00	20.00	C
ATOM	2100	CB	ALA	329	25.459	-3.370	36.612	1.00	20.00	C
ATOM	2101	C	ALA	329	24.057	-1.819	38.026	1.00	20.00	C
ATOM	2102	O	ALA	329	23.115	-2.195	38.728	1.00	20.00	O
ATOM	2103	N	TYR	330	24.904	-0.867	38.416	1.00	20.00	N

ATOM	2104	CA	TYR	330	24.771	-0.248	39.743	1.00	20.00	C
ATOM	2105	CB	TYR	330	26.010	0.584	40.095	1.00	20.00	C
ATOM	2106	CG	TYR	330	27.058	-0.220	40.814	1.00	20.00	C
ATOM	2107	CD1	TYR	330	27.043	-0.319	42.204	1.00	20.00	C
ATOM	2108	CE1	TYR	330	27.950	-1.126	42.879	1.00	20.00	C
ATOM	2109	CD2	TYR	330	28.021	-0.946	40.112	1.00	20.00	C
ATOM	2110	CE2	TYR	330	28.945	-1.764	40.785	1.00	20.00	C
ATOM	2111	CZ	TYR	330	28.895	-1.845	42.171	1.00	20.00	C
ATOM	2112	OH	TYR	330	29.773	-2.655	42.861	1.00	20.00	O
ATOM	2113	C	TYR	330	23.491	0.572	39.920	1.00	20.00	C
ATOM	2114	O	TYR	330	22.895	0.568	40.997	1.00	20.00	O
ATOM	2115	N	GLN	331	23.050	1.251	38.861	1.00	20.00	N
ATOM	2116	CA	GLN	331	21.822	2.033	38.923	1.00	20.00	C
ATOM	2117	CB	GLN	331	21.526	2.705	37.590	1.00	20.00	C
ATOM	2118	CG	GLN	331	22.512	3.779	37.212	1.00	20.00	C
ATOM	2119	CD	GLN	331	22.358	5.074	38.010	1.00	20.00	C
ATOM	2120	OE1	GLN	331	23.157	5.992	37.846	1.00	20.00	O
ATOM	2121	NE2	GLN	331	21.299	5.186	38.800	1.00	20.00	N
ATOM	2122	C	GLN	331	20.664	1.123	39.285	1.00	20.00	C
ATOM	2123	O	GLN	331	19.793	1.516	40.066	1.00	20.00	O
ATOM	2124	N	LYS	332	20.656	-0.089	38.727	1.00	20.00	N
ATOM	2125	CA	LYS	332	19.598	-1.054	39.011	1.00	20.00	C
ATOM	2126	CB	LYS	332	19.700	-2.271	38.093	1.00	20.00	C
ATOM	2127	CG	LYS	332	19.380	-2.005	36.629	1.00	20.00	C
ATOM	2128	CD	LYS	332	19.516	-3.306	35.871	1.00	20.00	C
ATOM	2129	CE	LYS	332	19.277	-3.151	34.389	1.00	20.00	C
ATOM	2130	NZ	LYS	332	19.345	-4.504	33.764	1.00	20.00	N
ATOM	2131	C	LYS	332	19.658	-1.517	40.464	1.00	20.00	C
ATOM	2132	O	LYS	332	18.629	-1.643	41.122	1.00	20.00	O
ATOM	2133	N	VAL	333	20.862	-1.793	40.958	1.00	20.00	N
ATOM	2134	CA	VAL	333	21.034	-2.226	42.348	1.00	20.00	C
ATOM	2135	CB	VAL	333	22.508	-2.586	42.649	1.00	20.00	C
ATOM	2136	CG1	VAL	333	22.706	-2.834	44.153	1.00	20.00	C
ATOM	2137	CG2	VAL	333	22.912	-3.825	41.850	1.00	20.00	C
ATOM	2138	C	VAL	333	20.579	-1.135	43.319	1.00	20.00	C
ATOM	2139	O	VAL	333	19.812	-1.392	44.250	1.00	20.00	O
ATOM	2140	N	VAL	334	21.021	0.087	43.057	1.00	20.00	N
ATOM	2141	CA	VAL	334	20.692	1.241	43.876	1.00	20.00	C
ATOM	2142	CB	VAL	334	21.574	2.437	43.421	1.00	20.00	C
ATOM	2143	CG1	VAL	334	20.797	3.710	43.303	1.00	20.00	C
ATOM	2144	CG2	VAL	334	22.762	2.569	44.354	1.00	20.00	C
ATOM	2145	C	VAL	334	19.181	1.521	43.865	1.00	20.00	C
ATOM	2146	O	VAL	334	18.598	1.880	44.881	1.00	20.00	O
ATOM	2147	N	ALA	335	18.532	1.313	42.728	1.00	20.00	N
ATOM	2148	CA	ALA	335	17.093	1.519	42.644	1.00	20.00	C
ATOM	2149	CB	ALA	335	16.657	1.532	41.198	1.00	20.00	C
ATOM	2150	C	ALA	335	16.378	0.393	43.396	1.00	20.00	C
ATOM	2151	O	ALA	335	15.387	0.623	44.086	1.00	20.00	O
ATOM	2152	N	GLY	336	16.889	-0.826	43.261	1.00	20.00	N
ATOM	2153	CA	GLY	336	16.291	-1.972	43.924	1.00	20.00	C
ATOM	2154	C	GLY	336	16.366	-1.841	45.436	1.00	20.00	C
ATOM	2155	O	GLY	336	15.417	-2.183	46.150	1.00	20.00	O
ATOM	2156	N	VAL	337	17.508	-1.373	45.928	1.00	20.00	N
ATOM	2157	CA	VAL	337	17.696	-1.185	47.356	1.00	20.00	C
ATOM	2158	CB	VAL	337	19.182	-0.857	47.688	1.00	20.00	C
ATOM	2159	CG1	VAL	337	19.349	-0.492	49.169	1.00	20.00	C
ATOM	2160	CG2	VAL	337	20.059	-2.084	47.388	1.00	20.00	C

ATOM	2161	C	VAL	337	16.720	-0.107	47.858	1.00	20.00	C
ATOM	2162	O	VAL	337	15.996	-0.336	48.832	1.00	20.00	O
ATOM	2163	N	ALA	338	16.616	1.014	47.147	1.00	20.00	N
ATOM	2164	CA	ALA	338	15.703	2.088	47.553	1.00	20.00	C
ATOM	2165	CB	ALA	338	15.849	3.297	46.639	1.00	20.00	C
ATOM	2166	C	ALA	338	14.248	1.595	47.575	1.00	20.00	C
ATOM	2167	O	ALA	338	13.477	1.937	48.481	1.00	20.00	O
ATOM	2168	N	ASN	339	13.879	0.780	46.592	1.00	20.00	N
ATOM	2169	CA	ASN	339	12.520	0.241	46.540	1.00	20.00	C
ATOM	2170	CB	ASN	339	12.266	-0.504	45.224	1.00	20.00	C
ATOM	2171	CG	ASN	339	12.126	0.436	44.037	1.00	20.00	C
ATOM	2172	OD1	ASN	339	12.129	1.666	44.186	1.00	20.00	O
ATOM	2173	ND2	ASN	339	11.985	-0.137	42.849	1.00	20.00	N
ATOM	2174	C	ASN	339	12.271	-0.699	47.712	1.00	20.00	C
ATOM	2175	O	ASN	339	11.198	-0.671	48.330	1.00	20.00	O
ATOM	2176	N	ALA	340	13.264	-1.535	48.010	1.00	20.00	N
ATOM	2177	CA	ALA	340	13.164	-2.486	49.112	1.00	20.00	C
ATOM	2178	CB	ALA	340	14.383	-3.422	49.119	1.00	20.00	C
ATOM	2179	C	ALA	340	13.007	-1.776	50.467	1.00	20.00	C
ATOM	2180	O	ALA	340	12.205	-2.195	51.301	1.00	20.00	O
ATOM	2181	N	LEU	341	13.736	-0.683	50.673	1.00	20.00	N
ATOM	2182	CA	LEU	341	13.643	0.069	51.924	1.00	20.00	C
ATOM	2183	CB	LEU	341	14.829	1.034	52.071	1.00	20.00	C
ATOM	2184	CG	LEU	341	16.154	0.458	52.572	1.00	20.00	C
ATOM	2185	CD1	LEU	341	17.258	1.499	52.395	1.00	20.00	C
ATOM	2186	CD2	LEU	341	16.029	0.027	54.041	1.00	20.00	C
ATOM	2187	C	LEU	341	12.338	0.859	52.069	1.00	20.00	C
ATOM	2188	O	LEU	341	11.968	1.249	53.182	1.00	20.00	O
ATOM	2189	N	ALA	342	11.687	1.152	50.944	1.00	20.00	N
ATOM	2190	CA	ALA	342	10.432	1.910	50.936	1.00	20.00	C
ATOM	2191	CB	ALA	342	10.374	2.812	49.703	1.00	20.00	C
ATOM	2192	C	ALA	342	9.205	1.003	50.947	1.00	20.00	C
ATOM	2193	O	ALA	342	8.085	1.454	51.188	1.00	20.00	O
ATOM	2194	N	HIS	343	9.439	-0.278	50.711	1.00	20.00	N
ATOM	2195	CA	HIS	343	8.390	-1.277	50.610	1.00	20.00	C
ATOM	2196	CB	HIS	343	9.044	-2.615	50.263	1.00	20.00	C
ATOM	2197	CG	HIS	343	8.075	-3.734	50.063	1.00	20.00	C
ATOM	2198	CD2	HIS	343	7.131	-3.960	49.122	1.00	20.00	C
ATOM	2199	ND1	HIS	343	8.025	-4.816	50.916	1.00	20.00	N
ATOM	2200	CE1	HIS	343	7.088	-5.658	50.507	1.00	20.00	C
ATOM	2201	NE2	HIS	343	6.536	-5.158	49.424	1.00	20.00	N
ATOM	2202	C	HIS	343	7.380	-1.424	51.769	1.00	20.00	C
ATOM	2203	O	HIS	343	6.203	-1.722	51.527	1.00	20.00	O
ATOM	2204	N	LYS	344	7.828	-1.252	53.012	1.00	20.00	N
ATOM	2205	CA	LYS	344	6.939	-1.388	54.156	1.00	20.00	C
ATOM	2206	CB	LYS	344	7.644	-2.132	55.287	1.00	20.00	C
ATOM	2207	CG	LYS	344	8.115	-3.520	54.909	1.00	20.00	C
ATOM	2208	CD	LYS	344	7.003	-4.315	54.300	1.00	20.00	C
ATOM	2209	CE	LYS	344	7.042	-5.725	54.835	1.00	20.00	C
ATOM	2210	NZ	LYS	344	6.337	-5.854	56.133	1.00	20.00	N
ATOM	2211	C	LYS	344	6.343	-0.090	54.681	1.00	20.00	C
ATOM	2212	O	LYS	344	5.698	-0.097	55.728	1.00	20.00	O
ATOM	2213	N	TYR	345	6.581	1.022	53.989	1.00	20.00	N
ATOM	2214	CA	TYR	345	6.009	2.302	54.407	1.00	20.00	C
ATOM	2215	CB	TYR	345	6.566	3.484	53.595	1.00	20.00	C
ATOM	2216	CG	TYR	345	7.915	3.988	54.080	1.00	20.00	C
ATOM	2217	CD1	TYR	345	8.059	5.279	54.599	1.00	20.00	C

ATOM	2218	CE1	TYR	345	9.287	5.730	55.072	1.00	20.00	C
ATOM	2219	CD2	TYR	345	9.044	3.163	54.041	1.00	20.00	C
ATOM	2220	CE2	TYR	345	10.283	3.611	54.508	1.00	20.00	C
ATOM	2221	CZ	TYR	345	10.398	4.893	55.018	1.00	20.00	C
ATOM	2222	OH	TYR	345	11.641	5.346	55.425	1.00	20.00	O
ATOM	2223	C	TYR	345	4.489	2.234	54.261	1.00	20.00	C
ATOM	2224	O	TYR	345	3.966	1.548	53.384	1.00	20.00	O
ATOM	2225	N	HIS	346	3.787	2.924	55.145	1.00	20.00	N
ATOM	2226	CA	HIS	346	2.330	2.928	55.142	1.00	20.00	C
ATOM	2227	CB	HIS	346	1.795	1.673	55.854	1.00	20.00	C
ATOM	2228	CG	HIS	346	2.221	1.578	57.288	1.00	20.00	C
ATOM	2229	CD2	HIS	346	3.351	1.093	57.852	1.00	20.00	C
ATOM	2230	ND1	HIS	346	1.485	2.125	58.318	1.00	20.00	N
ATOM	2231	CE1	HIS	346	2.150	1.992	59.453	1.00	20.00	C
ATOM	2232	NE2	HIS	346	3.285	1.368	59.196	1.00	20.00	N
ATOM	2233	C	HIS	346	1.905	4.163	55.910	1.00	20.00	C
ATOM	2234	OT1	HIS	346	2.780	4.804	56.523	1.00	20.00	O
ATOM	2235	OT2	HIS	346	0.699	4.445	55.909	1.00	20.00	O
ATOM	2236	FE	HEM	348	19.227	4.473	57.591	1.00	20.00	F
ATOM	2237	NA	HEM	348	19.950	2.970	58.708	1.00	20.00	N
ATOM	2238	NB	HEM	348	19.854	3.443	55.977	1.00	20.00	N
ATOM	2239	NC	HEM	348	19.098	6.174	56.481	1.00	20.00	N
ATOM	2240	ND	HEM	348	19.149	5.638	59.216	1.00	20.00	N
ATOM	2241	C1A	HEM	348	20.054	2.913	60.103	1.00	20.00	C
ATOM	2242	CHA	HEM	348	19.694	3.957	60.953	1.00	20.00	C
ATOM	2243	C4D	HEM	348	19.299	5.237	60.555	1.00	20.00	C
ATOM	2244	C1B	HEM	348	20.274	2.126	55.876	1.00	20.00	C
ATOM	2245	CHB	HEM	348	20.616	1.342	56.967	1.00	20.00	C
ATOM	2246	C4A	HEM	348	20.489	1.733	58.289	1.00	20.00	C
ATOM	2247	C1C	HEM	348	19.272	6.314	55.072	1.00	20.00	C
ATOM	2248	CHC	HEM	348	19.562	5.233	54.236	1.00	20.00	C
ATOM	2249	C4B	HEM	348	19.850	3.903	54.641	1.00	20.00	C
ATOM	2250	C1D	HEM	348	18.846	6.993	59.307	1.00	20.00	C
ATOM	2251	CHD	HEM	348	18.689	7.842	58.228	1.00	20.00	C
ATOM	2252	C4C	HEM	348	18.838	7.488	56.899	1.00	20.00	C
ATOM	2253	C2A	HEM	348	20.648	1.659	60.525	1.00	20.00	C
ATOM	2254	CAA	HEM	348	20.723	1.162	61.954	1.00	20.00	C
ATOM	2255	C3A	HEM	348	20.944	0.925	59.408	1.00	20.00	C
ATOM	2256	CMA	HEM	348	21.592	-0.460	59.312	1.00	20.00	C
ATOM	2257	CBA	HEM	348	19.360	0.658	62.392	1.00	20.00	C
ATOM	2258	CGA	HEM	348	19.349	0.142	63.820	1.00	20.00	C
ATOM	2259	O1A	HEM	348	19.651	0.933	64.734	1.00	20.00	O
ATOM	2260	O2A	HEM	348	19.028	-1.048	64.032	1.00	20.00	O
ATOM	2261	C2B	HEM	348	20.457	1.707	54.482	1.00	20.00	C
ATOM	2262	CMB	HEM	348	20.798	0.279	54.055	1.00	20.00	C
ATOM	2263	C3B	HEM	348	20.227	2.836	53.717	1.00	20.00	C
ATOM	2264	CAB	HEM	348	20.323	3.053	52.327	1.00	20.00	C
ATOM	2265	CBB	HEM	348	21.231	2.386	51.388	1.00	20.00	C
ATOM	2266	C2C	HEM	348	19.163	7.718	54.626	1.00	20.00	C
ATOM	2267	CMC	HEM	348	19.428	8.273	53.227	1.00	20.00	C
ATOM	2268	C3C	HEM	348	18.859	8.463	55.758	1.00	20.00	C
ATOM	2269	CAC	HEM	348	18.521	9.846	55.872	1.00	20.00	C
ATOM	2270	CBC	HEM	348	18.907	10.975	55.056	1.00	20.00	C
ATOM	2271	C2D	HEM	348	18.756	7.434	60.704	1.00	20.00	C
ATOM	2272	CMD	HEM	348	18.390	8.855	61.181	1.00	20.00	C
ATOM	2273	C3D	HEM	348	19.037	6.350	61.475	1.00	20.00	C
ATOM	2274	CAD	HEM	348	19.154	6.323	63.008	1.00	20.00	C

ATOM	2275	CBD	HEM	348	20.615	6.402	63.455	1.00	20.00	C
ATOM	2276	CGD	HEM	348	20.804	6.323	64.975	1.00	20.00	C
ATOM	2277	O1D	HEM	348	21.958	6.472	65.428	1.00	20.00	O
ATOM	2278	O2D	HEM	348	19.818	6.121	65.721	1.00	20.00	O
ATOM	2279	CB	VAL	401	6.312	33.261	32.529	1.00	20.00	C
ATOM	2280	CG1	VAL	401	5.496	34.537	32.328	1.00	20.00	C
ATOM	2281	CG2	VAL	401	7.733	33.631	32.955	1.00	20.00	C
ATOM	2282	C	VAL	401	4.141	32.398	33.520	1.00	20.00	C
ATOM	2283	O	VAL	401	3.546	31.741	32.664	1.00	20.00	O
ATOM	2284	N	VAL	401	6.052	30.916	33.418	1.00	20.00	N
ATOM	2285	CA	VAL	401	5.658	32.342	33.610	1.00	20.00	C
ATOM	2286	N	LEU	402	3.519	33.120	34.444	1.00	20.00	N
ATOM	2287	CA	LEU	402	2.068	33.236	34.466	1.00	20.00	C
ATOM	2288	CB	LEU	402	1.572	33.456	35.900	1.00	20.00	C
ATOM	2289	CG	LEU	402	1.789	32.304	36.895	1.00	20.00	C
ATOM	2290	CD1	LEU	402	1.592	32.797	38.306	1.00	20.00	C
ATOM	2291	CD2	LEU	402	0.846	31.146	36.610	1.00	20.00	C
ATOM	2292	C	LEU	402	1.624	34.379	33.572	1.00	20.00	C
ATOM	2293	O	LEU	402	2.009	35.520	33.795	1.00	20.00	O
ATOM	2294	N	SER	403	0.855	34.058	32.536	1.00	20.00	N
ATOM	2295	CA	SER	403	0.347	35.055	31.604	1.00	20.00	C
ATOM	2296	CB	SER	403	-0.144	34.351	30.343	1.00	20.00	C
ATOM	2297	OG	SER	403	-1.267	33.544	30.630	1.00	20.00	O
ATOM	2298	C	SER	403	-0.816	35.831	32.239	1.00	20.00	C
ATOM	2299	O	SER	403	-1.333	35.443	33.293	1.00	20.00	O
ATOM	2300	N	PRO	404	-1.234	36.951	31.618	1.00	20.00	N
ATOM	2301	CD	PRO	404	-0.648	37.687	30.487	1.00	20.00	C
ATOM	2302	CA	PRO	404	-2.351	37.707	32.196	1.00	20.00	C
ATOM	2303	CB	PRO	404	-2.539	38.850	31.197	1.00	20.00	C
ATOM	2304	CG	PRO	404	-1.162	39.098	30.727	1.00	20.00	C
ATOM	2305	C	PRO	404	-3.580	36.795	32.264	1.00	20.00	C
ATOM	2306	O	PRO	404	-4.345	36.850	33.213	1.00	20.00	O
ATOM	2307	N	ALA	405	-3.740	35.923	31.277	1.00	20.00	N
ATOM	2308	CA	ALA	405	-4.865	34.996	31.287	1.00	20.00	C
ATOM	2309	CB	ALA	405	-4.917	34.204	29.992	1.00	20.00	C
ATOM	2310	C	ALA	405	-4.748	34.054	32.495	1.00	20.00	C
ATOM	2311	O	ALA	405	-5.742	33.787	33.178	1.00	20.00	O
ATOM	2312	N	ASP	406	-3.544	33.548	32.754	1.00	20.00	N
ATOM	2313	CA	ASP	406	-3.340	32.656	33.902	1.00	20.00	C
ATOM	2314	CB	ASP	406	-1.885	32.194	34.010	1.00	20.00	C
ATOM	2315	CG	ASP	406	-1.500	31.185	32.942	1.00	20.00	C
ATOM	2316	OD1	ASP	406	-2.338	30.342	32.542	1.00	20.00	O
ATOM	2317	OD2	ASP	406	-0.334	31.240	32.508	1.00	20.00	O
ATOM	2318	C	ASP	406	-3.711	33.370	35.199	1.00	20.00	C
ATOM	2319	O	ASP	406	-4.411	32.798	36.048	1.00	20.00	O
ATOM	2320	N	LYS	407	-3.224	34.605	35.356	1.00	20.00	N
ATOM	2321	CA	LYS	407	-3.503	35.407	36.557	1.00	20.00	C
ATOM	2322	CB	LYS	407	-2.849	36.787	36.464	1.00	20.00	C
ATOM	2323	CG	LYS	407	-1.336	36.798	36.580	1.00	20.00	C
ATOM	2324	CD	LYS	407	-0.785	38.153	36.129	1.00	20.00	C
ATOM	2325	CE	LYS	407	0.699	38.258	36.372	1.00	20.00	C
ATOM	2326	NZ	LYS	407	1.449	37.111	35.798	1.00	20.00	N
ATOM	2327	C	LYS	407	-4.999	35.591	36.780	1.00	20.00	C
ATOM	2328	O	LYS	407	-5.489	35.452	37.905	1.00	20.00	O
ATOM	2329	N	THR	408	-5.712	35.928	35.704	1.00	20.00	N
ATOM	2330	CA	THR	408	-7.158	36.138	35.756	1.00	20.00	C
ATOM	2331	CB	THR	408	-7.709	36.619	34.372	1.00	20.00	C

ATOM	2332	OG1	THR	408	-7.015	37.802	33.974	1.00	20.00	O
ATOM	2333	CG2	THR	408	-9.198	36.928	34.439	1.00	20.00	C
ATOM	2334	C	THR	408	-7.842	34.839	36.156	1.00	20.00	C
ATOM	2335	O	THR	408	-8.740	34.848	36.996	1.00	20.00	O
ATOM	2336	N	ASN	409	-7.395	33.722	35.581	1.00	20.00	N
ATOM	2337	CA	ASN	409	-7.979	32.416	35.890	1.00	20.00	C
ATOM	2338	CB	ASN	409	-7.412	31.327	34.989	1.00	20.00	C
ATOM	2339	CG	ASN	409	-7.995	31.361	33.583	1.00	20.00	C
ATOM	2340	OD1	ASN	409	-9.104	31.858	33.364	1.00	20.00	O
ATOM	2341	ND2	ASN	409	-7.236	30.852	32.622	1.00	20.00	N
ATOM	2342	C	ASN	409	-7.756	32.036	37.351	1.00	20.00	C
ATOM	2343	O	ASN	409	-8.678	31.545	38.022	1.00	20.00	O
ATOM	2344	N	VAL	410	-6.546	32.278	37.852	1.00	20.00	N
ATOM	2345	CA	VAL	410	-6.243	31.961	39.239	1.00	20.00	C
ATOM	2346	CB	VAL	410	-4.751	32.109	39.537	1.00	20.00	C
ATOM	2347	CG1	VAL	410	-4.496	31.915	41.035	1.00	20.00	C
ATOM	2348	CG2	VAL	410	-3.973	31.062	38.754	1.00	20.00	C
ATOM	2349	C	VAL	410	-7.073	32.809	40.215	1.00	20.00	C
ATOM	2350	O	VAL	410	-7.692	32.263	41.137	1.00	20.00	O
ATOM	2351	N	LYS	411	-7.116	34.125	39.997	1.00	20.00	N
ATOM	2352	CA	LYS	411	-7.890	35.016	40.864	1.00	20.00	C
ATOM	2353	CB	LYS	411	-7.719	36.476	40.469	1.00	20.00	C
ATOM	2354	CG	LYS	411	-6.339	37.047	40.738	1.00	20.00	C
ATOM	2355	CD	LYS	411	-6.270	38.492	40.274	1.00	20.00	C
ATOM	2356	CE	LYS	411	-4.848	39.027	40.285	1.00	20.00	C
ATOM	2357	NZ	LYS	411	-4.263	39.045	41.658	1.00	20.00	N
ATOM	2358	C	LYS	411	-9.368	34.661	40.842	1.00	20.00	C
ATOM	2359	O	LYS	411	-10.016	34.644	41.881	1.00	20.00	O
ATOM	2360	N	ALA	412	-9.902	34.355	39.668	1.00	20.00	N
ATOM	2361	CA	ALA	412	-11.305	33.987	39.554	1.00	20.00	C
ATOM	2362	CB	ALA	412	-11.682	33.831	38.102	1.00	20.00	C
ATOM	2363	C	ALA	412	-11.655	32.716	40.338	1.00	20.00	C
ATOM	2364	O	ALA	412	-12.583	32.723	41.145	1.00	20.00	O
ATOM	2365	N	ALA	413	-10.921	31.629	40.107	1.00	20.00	N
ATOM	2366	CA	ALA	413	-11.176	30.361	40.805	1.00	20.00	C
ATOM	2367	CB	ALA	413	-10.284	29.247	40.241	1.00	20.00	C
ATOM	2368	C	ALA	413	-10.986	30.467	42.321	1.00	20.00	C
ATOM	2369	O	ALA	413	-11.809	29.970	43.099	1.00	20.00	O
ATOM	2370	N	TRP	414	-9.902	31.117	42.734	1.00	20.00	N
ATOM	2371	CA	TRP	414	-9.600	31.287	44.150	1.00	20.00	C
ATOM	2372	CB	TRP	414	-8.197	31.853	44.341	1.00	20.00	C
ATOM	2373	CG	TRP	414	-7.650	31.523	45.675	1.00	20.00	C
ATOM	2374	CD2	TRP	414	-7.288	30.224	46.155	1.00	20.00	C
ATOM	2375	CE2	TRP	414	-6.876	30.375	47.501	1.00	20.00	C
ATOM	2376	CE3	TRP	414	-7.278	28.947	45.581	1.00	20.00	C
ATOM	2377	CD1	TRP	414	-7.441	32.384	46.712	1.00	20.00	C
ATOM	2378	NE1	TRP	414	-6.979	31.702	47.812	1.00	20.00	N
ATOM	2379	CZ2	TRP	414	-6.457	29.299	48.287	1.00	20.00	C
ATOM	2380	CZ3	TRP	414	-6.859	27.870	46.365	1.00	20.00	C
ATOM	2381	CH2	TRP	414	-6.454	28.059	47.708	1.00	20.00	C
ATOM	2382	C	TRP	414	-10.625	32.195	44.823	1.00	20.00	C
ATOM	2383	O	TRP	414	-10.981	31.991	45.986	1.00	20.00	O
ATOM	2384	N	GLY	415	-11.101	33.191	44.082	1.00	20.00	N
ATOM	2385	CA	GLY	415	-12.105	34.102	44.602	1.00	20.00	C
ATOM	2386	C	GLY	415	-13.347	33.309	44.949	1.00	20.00	C
ATOM	2387	O	GLY	415	-13.994	33.559	45.960	1.00	20.00	O
ATOM	2388	N	LYS	416	-13.657	32.323	44.114	1.00	20.00	N

ATOM	2389	CA	LYS	416	-14.808	31.453	44.316	1.00	20.00	C
ATOM	2390	CB	LYS	416	-15.083	30.648	43.043	1.00	20.00	C
ATOM	2391	CG	LYS	416	-16.454	30.890	42.460	1.00	20.00	C
ATOM	2392	CD	LYS	416	-17.515	30.238	43.337	1.00	20.00	C
ATOM	2393	CE	LYS	416	-18.918	30.427	42.772	1.00	20.00	C
ATOM	2394	NZ	LYS	416	-19.947	29.809	43.663	1.00	20.00	N
ATOM	2395	C	LYS	416	-14.603	30.528	45.521	1.00	20.00	C
ATOM	2396	O	LYS	416	-15.560	30.188	46.211	1.00	20.00	O
ATOM	2397	N	VAL	417	-13.365	30.100	45.761	1.00	20.00	N
ATOM	2398	CA	VAL	417	-13.060	29.246	46.918	1.00	20.00	C
ATOM	2399	CB	VAL	417	-11.537	28.918	47.002	1.00	20.00	C
ATOM	2400	CG1	VAL	417	-11.156	28.462	48.394	1.00	20.00	C
ATOM	2401	CG2	VAL	417	-11.176	27.840	45.975	1.00	20.00	C
ATOM	2402	C	VAL	417	-13.506	30.035	48.151	1.00	20.00	C
ATOM	2403	O	VAL	417	-14.253	29.528	48.997	1.00	20.00	O
ATOM	2404	N	GLY	418	-13.055	31.286	48.220	1.00	20.00	N
ATOM	2405	CA	GLY	418	-13.430	32.185	49.295	1.00	20.00	C
ATOM	2406	C	GLY	418	-13.224	31.736	50.726	1.00	20.00	C
ATOM	2407	O	GLY	418	-12.126	31.340	51.120	1.00	20.00	O
ATOM	2408	N	ALA	419	-14.292	31.793	51.515	1.00	20.00	N
ATOM	2409	CA	ALA	419	-14.206	31.411	52.915	1.00	20.00	C
ATOM	2410	CB	ALA	419	-15.433	31.909	53.682	1.00	20.00	C
ATOM	2411	C	ALA	419	-13.995	29.917	53.148	1.00	20.00	C
ATOM	2412	O	ALA	419	-13.669	29.509	54.264	1.00	20.00	O
ATOM	2413	N	HIS	420	-14.141	29.107	52.099	1.00	20.00	N
ATOM	2414	CA	HIS	420	-13.958	27.657	52.224	1.00	20.00	C
ATOM	2415	CB	HIS	420	-14.806	26.908	51.189	1.00	20.00	C
ATOM	2416	CG	HIS	420	-16.278	27.146	51.321	1.00	20.00	C
ATOM	2417	CD2	HIS	420	-17.176	26.699	52.231	1.00	20.00	C
ATOM	2418	ND1	HIS	420	-16.985	27.936	50.439	1.00	20.00	N
ATOM	2419	CE1	HIS	420	-18.256	27.967	50.800	1.00	20.00	C
ATOM	2420	NE2	HIS	420	-18.399	27.225	51.884	1.00	20.00	N
ATOM	2421	C	HIS	420	-12.496	27.227	52.080	1.00	20.00	C
ATOM	2422	O	HIS	420	-12.179	26.041	52.185	1.00	20.00	O
ATOM	2423	N	ALA	421	-11.609	28.197	51.878	1.00	20.00	N
ATOM	2424	CA	ALA	421	-10.173	27.941	51.702	1.00	20.00	C
ATOM	2425	CB	ALA	421	-9.409	29.260	51.647	1.00	20.00	C
ATOM	2426	C	ALA	421	-9.556	27.022	52.748	1.00	20.00	C
ATOM	2427	O	ALA	421	-8.908	26.037	52.406	1.00	20.00	O
ATOM	2428	N	GLY	422	-9.754	27.343	54.023	1.00	20.00	N
ATOM	2429	CA	GLY	422	-9.204	26.520	55.087	1.00	20.00	C
ATOM	2430	C	GLY	422	-9.717	25.095	55.044	1.00	20.00	C
ATOM	2431	O	GLY	422	-8.972	24.149	55.269	1.00	20.00	O
ATOM	2432	N	GLU	423	-11.008	24.948	54.773	1.00	20.00	N
ATOM	2433	CA	GLU	423	-11.668	23.649	54.680	1.00	20.00	C
ATOM	2434	CB	GLU	423	-13.156	23.899	54.461	1.00	20.00	C
ATOM	2435	CG	GLU	423	-14.035	22.687	54.528	1.00	20.00	C
ATOM	2436	CD	GLU	423	-15.457	22.986	54.067	1.00	20.00	C
ATOM	2437	OE1	GLU	423	-16.196	22.016	53.777	1.00	20.00	O
ATOM	2438	OE2	GLU	423	-15.835	24.181	53.974	1.00	20.00	O
ATOM	2439	C	GLU	423	-11.067	22.822	53.513	1.00	20.00	C
ATOM	2440	O	GLU	423	-10.777	21.624	53.653	1.00	20.00	O
ATOM	2441	N	TYR	424	-10.865	23.479	52.373	1.00	20.00	N
ATOM	2442	CA	TYR	424	-10.289	22.818	51.202	1.00	20.00	C
ATOM	2443	CB	TYR	424	-10.418	23.701	49.958	1.00	20.00	C
ATOM	2444	CG	TYR	424	-11.838	23.995	49.514	1.00	20.00	C
ATOM	2445	CD1	TYR	424	-12.089	24.932	48.503	1.00	20.00	C

ATOM	2446	CE1	TYR	424	-13.384	25.222	48.088	1.00	20.00	C
ATOM	2447	CD2	TYR	424	-12.924	23.350	50.097	1.00	20.00	C
ATOM	2448	CE2	TYR	424	-14.228	23.630	49.688	1.00	20.00	C
ATOM	2449	CZ	TYR	424	-14.452	24.568	48.681	1.00	20.00	C
ATOM	2450	OH	TYR	424	-15.741	24.848	48.262	1.00	20.00	O
ATOM	2451	C	TYR	424	-8.817	22.469	51.458	1.00	20.00	C
ATOM	2452	O	TYR	424	-8.323	21.456	50.961	1.00	20.00	O
ATOM	2453	N	GLY	425	-8.128	23.309	52.234	1.00	20.00	N
ATOM	2454	CA	GLY	425	-6.735	23.052	52.558	1.00	20.00	C
ATOM	2455	C	GLY	425	-6.610	21.772	53.377	1.00	20.00	C
ATOM	2456	O	GLY	425	-5.743	20.931	53.124	1.00	20.00	O
ATOM	2457	N	ALA	426	-7.497	21.601	54.352	1.00	20.00	N
ATOM	2458	CA	ALA	426	-7.468	20.407	55.194	1.00	20.00	C
ATOM	2459	CB	ALA	426	-8.457	20.546	56.369	1.00	20.00	C
ATOM	2460	C	ALA	426	-7.799	19.170	54.357	1.00	20.00	C
ATOM	2461	O	ALA	426	-7.183	18.115	54.528	1.00	20.00	O
ATOM	2462	N	GLU	427	-8.774	19.296	53.455	1.00	20.00	N
ATOM	2463	CA	GLU	427	-9.165	18.169	52.607	1.00	20.00	C
ATOM	2464	CB	GLU	427	-10.366	18.537	51.730	1.00	20.00	C
ATOM	2465	CG	GLU	427	-10.899	17.351	50.928	1.00	20.00	C
ATOM	2466	CD	GLU	427	-12.053	17.733	50.028	1.00	20.00	C
ATOM	2467	OE1	GLU	427	-12.067	17.310	48.847	1.00	20.00	O
ATOM	2468	OE2	GLU	427	-12.947	18.464	50.508	1.00	20.00	O
ATOM	2469	C	GLU	427	-7.993	17.744	51.722	1.00	20.00	C
ATOM	2470	O	GLU	427	-7.714	16.553	51.573	1.00	20.00	O
ATOM	2471	N	ALA	428	-7.303	18.729	51.153	1.00	20.00	N
ATOM	2472	CA	ALA	428	-6.151	18.470	50.290	1.00	20.00	C
ATOM	2473	CB	ALA	428	-5.557	19.775	49.796	1.00	20.00	C
ATOM	2474	C	ALA	428	-5.115	17.684	51.068	1.00	20.00	C
ATOM	2475	O	ALA	428	-4.556	16.713	50.550	1.00	20.00	O
ATOM	2476	N	LEU	429	-4.884	18.081	52.323	1.00	20.00	N
ATOM	2477	CA	LEU	429	-3.918	17.389	53.184	1.00	20.00	C
ATOM	2478	CB	LEU	429	-3.764	18.108	54.526	1.00	20.00	C
ATOM	2479	CG	LEU	429	-3.014	19.435	54.425	1.00	20.00	C
ATOM	2480	CD1	LEU	429	-3.047	20.165	55.764	1.00	20.00	C
ATOM	2481	CD2	LEU	429	-1.579	19.171	53.961	1.00	20.00	C
ATOM	2482	C	LEU	429	-4.367	15.956	53.423	1.00	20.00	C
ATOM	2483	O	LEU	429	-3.582	15.013	53.288	1.00	20.00	O
ATOM	2484	N	GLU	430	-5.642	15.780	53.753	1.00	20.00	N
ATOM	2485	CA	GLU	430	-6.146	14.444	54.000	1.00	20.00	C
ATOM	2486	CB	GLU	430	-7.614	14.485	54.410	1.00	20.00	C
ATOM	2487	CG	GLU	430	-8.193	13.096	54.630	1.00	20.00	C
ATOM	2488	CD	GLU	430	-9.530	13.101	55.368	1.00	20.00	C
ATOM	2489	OE1	GLU	430	-10.189	14.161	55.454	1.00	20.00	O
ATOM	2490	OE2	GLU	430	-9.921	12.028	55.869	1.00	20.00	O
ATOM	2491	C	GLU	430	-5.963	13.551	52.780	1.00	20.00	C
ATOM	2492	O	GLU	430	-5.536	12.392	52.906	1.00	20.00	O
ATOM	2493	N	ARG	431	-6.288	14.086	51.601	1.00	20.00	N
ATOM	2494	CA	ARG	431	-6.142	13.337	50.343	1.00	20.00	C
ATOM	2495	CB	ARG	431	-6.635	14.174	49.153	1.00	20.00	C
ATOM	2496	CG	ARG	431	-8.124	14.385	49.135	1.00	20.00	C
ATOM	2497	CD	ARG	431	-8.559	15.221	47.950	1.00	20.00	C
ATOM	2498	NE	ARG	431	-10.013	15.411	47.933	1.00	20.00	N
ATOM	2499	CZ	ARG	431	-10.887	14.494	47.530	1.00	20.00	C
ATOM	2500	NH1	ARG	431	-10.469	13.305	47.085	1.00	20.00	N
ATOM	2501	NH2	ARG	431	-12.185	14.739	47.619	1.00	20.00	N
ATOM	2502	C	ARG	431	-4.678	12.938	50.133	1.00	20.00	C

ATOM	2503	O	ARG	431	-4.374	11.803	49.750	1.00	20.00	O
ATOM	2504	N	MET	432	-3.776	13.869	50.423	1.00	20.00	N
ATOM	2505	CA	MET	432	-2.343	13.624	50.276	1.00	20.00	C
ATOM	2506	CB	MET	432	-1.533	14.909	50.519	1.00	20.00	C
ATOM	2507	CG	MET	432	-0.024	14.706	50.416	1.00	20.00	C
ATOM	2508	SD	MET	432	0.931	16.183	50.826	1.00	20.00	S
ATOM	2509	CE	MET	432	0.661	16.360	52.561	1.00	20.00	C
ATOM	2510	C	MET	432	-1.843	12.519	51.205	1.00	20.00	C
ATOM	2511	O	MET	432	-1.125	11.621	50.757	1.00	20.00	O
ATOM	2512	N	PHE	433	-2.233	12.566	52.481	1.00	20.00	N
ATOM	2513	CA	PHE	433	-1.788	11.551	53.441	1.00	20.00	C
ATOM	2514	CB	PHE	433	-2.215	11.911	54.866	1.00	20.00	C
ATOM	2515	CG	PHE	433	-1.618	13.188	55.376	1.00	20.00	C
ATOM	2516	CD1	PHE	433	-0.257	13.450	55.208	1.00	20.00	C
ATOM	2517	CD2	PHE	433	-2.415	14.133	56.019	1.00	20.00	C
ATOM	2518	CE1	PHE	433	0.304	14.635	55.681	1.00	20.00	C
ATOM	2519	CE2	PHE	433	-1.869	15.319	56.494	1.00	20.00	C
ATOM	2520	CZ	PHE	433	-0.505	15.575	56.322	1.00	20.00	C
ATOM	2521	C	PHE	433	-2.290	10.164	53.084	1.00	20.00	C
ATOM	2522	O	PHE	433	-1.560	9.188	53.253	1.00	20.00	O
ATOM	2523	N	LEU	434	-3.528	10.075	52.586	1.00	20.00	N
ATOM	2524	CA	LEU	434	-4.101	8.785	52.190	1.00	20.00	C
ATOM	2525	CB	LEU	434	-5.630	8.852	52.107	1.00	20.00	C
ATOM	2526	CG	LEU	434	-6.409	9.013	53.409	1.00	20.00	C
ATOM	2527	CD1	LEU	434	-7.901	9.018	53.129	1.00	20.00	C
ATOM	2528	CD2	LEU	434	-6.058	7.858	54.335	1.00	20.00	C
ATOM	2529	C	LEU	434	-3.550	8.259	50.860	1.00	20.00	C
ATOM	2530	O	LEU	434	-3.277	7.064	50.737	1.00	20.00	O
ATOM	2531	N	SER	435	-3.399	9.139	49.863	1.00	20.00	N
ATOM	2532	CA	SER	435	-2.884	8.729	48.548	1.00	20.00	C
ATOM	2533	CB	SER	435	-3.245	9.758	47.473	1.00	20.00	C
ATOM	2534	OG	SER	435	-4.646	9.878	47.342	1.00	20.00	O
ATOM	2535	C	SER	435	-1.378	8.491	48.491	1.00	20.00	C
ATOM	2536	O	SER	435	-0.924	7.614	47.760	1.00	20.00	O
ATOM	2537	N	PHE	436	-0.614	9.311	49.214	1.00	20.00	N
ATOM	2538	CA	PHE	436	0.848	9.221	49.235	1.00	20.00	C
ATOM	2539	CB	PHE	436	1.434	10.440	48.514	1.00	20.00	C
ATOM	2540	CG	PHE	436	0.786	10.707	47.173	1.00	20.00	C
ATOM	2541	CD1	PHE	436	-0.184	11.692	47.037	1.00	20.00	C
ATOM	2542	CD2	PHE	436	1.097	9.920	46.062	1.00	20.00	C
ATOM	2543	CE1	PHE	436	-0.833	11.895	45.810	1.00	20.00	C
ATOM	2544	CE2	PHE	436	0.455	10.117	44.835	1.00	20.00	C
ATOM	2545	CZ	PHE	436	-0.512	11.102	44.717	1.00	20.00	C
ATOM	2546	C	PHE	436	1.322	9.137	50.676	1.00	20.00	C
ATOM	2547	O	PHE	436	1.784	10.121	51.259	1.00	20.00	O
ATOM	2548	N	PRO	437	1.249	7.932	51.256	1.00	20.00	N
ATOM	2549	CD	PRO	437	0.891	6.688	50.559	1.00	20.00	C
ATOM	2550	CA	PRO	437	1.638	7.631	52.635	1.00	20.00	C
ATOM	2551	CB	PRO	437	1.600	6.100	52.662	1.00	20.00	C
ATOM	2552	CG	PRO	437	0.547	5.782	51.699	1.00	20.00	C
ATOM	2553	C	PRO	437	2.998	8.173	53.079	1.00	20.00	C
ATOM	2554	O	PRO	437	3.164	8.555	54.232	1.00	20.00	O
ATOM	2555	N	THR	438	3.954	8.266	52.160	1.00	20.00	N
ATOM	2556	CA	THR	438	5.272	8.744	52.532	1.00	20.00	C
ATOM	2557	CB	THR	438	6.304	8.584	51.392	1.00	20.00	C
ATOM	2558	OG1	THR	438	5.895	9.355	50.264	1.00	20.00	O
ATOM	2559	CG2	THR	438	6.448	7.127	50.997	1.00	20.00	C

ATOM	2560	C	THR	438	5.270	10.175	53.039	1.00	20.00	C
ATOM	2561	O	THR	438	6.152	10.536	53.804	1.00	20.00	O
ATOM	2562	N	THR	439	4.288	10.984	52.625	1.00	20.00	N
ATOM	2563	CA	THR	439	4.207	12.381	53.078	1.00	20.00	C
ATOM	2564	CB	THR	439	3.088	13.190	52.343	1.00	20.00	C
ATOM	2565	OG1	THR	439	1.800	12.579	52.555	1.00	20.00	O
ATOM	2566	CG2	THR	439	3.380	13.294	50.842	1.00	20.00	C
ATOM	2567	C	THR	439	3.947	12.463	54.593	1.00	20.00	C
ATOM	2568	O	THR	439	4.218	13.487	55.222	1.00	20.00	O
ATOM	2569	N	LYS	440	3.408	11.392	55.173	1.00	20.00	N
ATOM	2570	CA	LYS	440	3.130	11.366	56.610	1.00	20.00	C
ATOM	2571	CB	LYS	440	2.296	10.133	56.987	1.00	20.00	C
ATOM	2572	CG	LYS	440	0.930	10.136	56.356	1.00	20.00	C
ATOM	2573	CD	LYS	440	0.032	9.055	56.908	1.00	20.00	C
ATOM	2574	CE	LYS	440	0.612	7.706	56.671	1.00	20.00	C
ATOM	2575	NZ	LYS	440	-0.360	6.663	57.035	1.00	20.00	N
ATOM	2576	C	LYS	440	4.400	11.410	57.462	1.00	20.00	C
ATOM	2577	O	LYS	440	4.339	11.756	58.634	1.00	20.00	O
ATOM	2578	N	THR	441	5.550	11.098	56.864	1.00	20.00	N
ATOM	2579	CA	THR	441	6.811	11.089	57.597	1.00	20.00	C
ATOM	2580	CB	THR	441	7.994	10.551	56.740	1.00	20.00	C
ATOM	2581	OG1	THR	441	8.158	11.373	55.583	1.00	20.00	O
ATOM	2582	CG2	THR	441	7.755	9.124	56.296	1.00	20.00	C
ATOM	2583	C	THR	441	7.172	12.482	58.115	1.00	20.00	C
ATOM	2584	O	THR	441	8.009	12.603	59.015	1.00	20.00	O
ATOM	2585	N	TYR	442	6.551	13.529	57.566	1.00	20.00	N
ATOM	2586	CA	TYR	442	6.838	14.893	58.016	1.00	20.00	C
ATOM	2587	CB	TYR	442	6.749	15.885	56.846	1.00	20.00	C
ATOM	2588	CG	TYR	442	7.788	15.613	55.781	1.00	20.00	C
ATOM	2589	CD1	TYR	442	9.105	16.042	55.946	1.00	20.00	C
ATOM	2590	CE1	TYR	442	10.084	15.743	54.994	1.00	20.00	C
ATOM	2591	CD2	TYR	442	7.470	14.874	54.635	1.00	20.00	C
ATOM	2592	CE2	TYR	442	8.440	14.571	53.679	1.00	20.00	C
ATOM	2593	CZ	TYR	442	9.746	15.010	53.867	1.00	20.00	C
ATOM	2594	OH	TYR	442	10.712	14.764	52.913	1.00	20.00	O
ATOM	2595	C	TYR	442	5.938	15.361	59.162	1.00	20.00	C
ATOM	2596	O	TYR	442	6.146	16.439	59.713	1.00	20.00	O
ATOM	2597	N	PHE	443	4.963	14.538	59.538	1.00	20.00	N
ATOM	2598	CA	PHE	443	4.026	14.902	60.599	1.00	20.00	C
ATOM	2599	CB	PHE	443	2.650	15.204	59.991	1.00	20.00	C
ATOM	2600	CG	PHE	443	2.656	16.311	58.968	1.00	20.00	C
ATOM	2601	CD1	PHE	443	2.988	16.048	57.634	1.00	20.00	C
ATOM	2602	CD2	PHE	443	2.292	17.610	59.326	1.00	20.00	C
ATOM	2603	CE1	PHE	443	2.969	17.062	56.678	1.00	20.00	C
ATOM	2604	CE2	PHE	443	2.269	18.630	58.369	1.00	20.00	C
ATOM	2605	CZ	PHE	443	2.604	18.348	57.043	1.00	20.00	C
ATOM	2606	C	PHE	443	3.871	13.797	61.654	1.00	20.00	C
ATOM	2607	O	PHE	443	2.746	13.428	62.009	1.00	20.00	O
ATOM	2608	N	PRO	444	4.993	13.318	62.234	1.00	20.00	N
ATOM	2609	CD	PRO	444	6.386	13.788	62.066	1.00	20.00	C
ATOM	2610	CA	PRO	444	4.906	12.254	63.247	1.00	20.00	C
ATOM	2611	CB	PRO	444	6.365	11.859	63.442	1.00	20.00	C
ATOM	2612	CG	PRO	444	7.090	13.188	63.255	1.00	20.00	C
ATOM	2613	C	PRO	444	4.283	12.768	64.546	1.00	20.00	C
ATOM	2614	O	PRO	444	3.814	11.997	65.382	1.00	20.00	O
ATOM	2615	N	HIS	445	4.253	14.089	64.673	1.00	20.00	N
ATOM	2616	CA	HIS	445	3.711	14.753	65.835	1.00	20.00	C

ATOM	2617	CB	HIS	445	4.526	16.018	66.110	1.00	20.00	C
ATOM	2618	CG	HIS	445	4.558	16.978	64.962	1.00	20.00	C
ATOM	2619	CD2	HIS	445	4.076	18.239	64.841	1.00	20.00	C
ATOM	2620	ND1	HIS	445	5.136	16.671	63.752	1.00	20.00	N
ATOM	2621	CE1	HIS	445	5.009	17.699	62.931	1.00	20.00	C
ATOM	2622	NE2	HIS	445	4.369	18.663	63.568	1.00	20.00	N
ATOM	2623	C	HIS	445	2.245	15.133	65.685	1.00	20.00	C
ATOM	2624	O	HIS	445	1.712	15.848	66.528	1.00	20.00	O
ATOM	2625	N	PHE	446	1.603	14.691	64.607	1.00	20.00	N
ATOM	2626	CA	PHE	446	0.202	15.021	64.360	1.00	20.00	C
ATOM	2627	CB	PHE	446	0.035	15.480	62.908	1.00	20.00	C
ATOM	2628	CG	PHE	446	0.133	16.955	62.692	1.00	20.00	C
ATOM	2629	CD1	PHE	446	-0.657	17.561	61.715	1.00	20.00	C
ATOM	2630	CD2	PHE	446	1.034	17.733	63.401	1.00	20.00	C
ATOM	2631	CE1	PHE	446	-0.547	18.928	61.442	1.00	20.00	C
ATOM	2632	CE2	PHE	446	1.154	19.100	63.141	1.00	20.00	C
ATOM	2633	CZ	PHE	446	0.358	19.700	62.155	1.00	20.00	C
ATOM	2634	C	PHE	446	-0.717	13.813	64.513	1.00	20.00	C
ATOM	2635	O	PHE	446	-0.312	12.672	64.292	1.00	20.00	O
ATOM	2636	N	ASP	447	-1.963	14.061	64.888	1.00	20.00	N
ATOM	2637	CA	ASP	447	-2.948	12.994	64.928	1.00	20.00	C
ATOM	2638	CB	ASP	447	-4.085	13.314	65.904	1.00	20.00	C
ATOM	2639	CG	ASP	447	-5.196	12.250	65.892	1.00	20.00	C
ATOM	2640	OD1	ASP	447	-5.308	11.485	64.911	1.00	20.00	O
ATOM	2641	OD2	ASP	447	-5.976	12.180	66.864	1.00	20.00	O
ATOM	2642	C	ASP	447	-3.444	13.159	63.482	1.00	20.00	C
ATOM	2643	O	ASP	447	-3.986	14.207	63.120	1.00	20.00	O
ATOM	2644	N	LEU	448	-3.205	12.169	62.636	1.00	20.00	N
ATOM	2645	CA	LEU	448	-3.620	12.296	61.245	1.00	20.00	C
ATOM	2646	CB	LEU	448	-2.516	11.763	60.304	1.00	20.00	C
ATOM	2647	CG	LEU	448	-1.150	12.474	60.396	1.00	20.00	C
ATOM	2648	CD1	LEU	448	-0.092	11.723	59.600	1.00	20.00	C
ATOM	2649	CD2	LEU	448	-1.246	13.924	59.929	1.00	20.00	C
ATOM	2650	C	LEU	448	-4.977	11.674	60.937	1.00	20.00	C
ATOM	2651	O	LEU	448	-5.334	11.534	59.770	1.00	20.00	O
ATOM	2652	N	SER	449	-5.748	11.350	61.977	1.00	20.00	N
ATOM	2653	CA	SER	449	-7.077	10.752	61.827	1.00	20.00	C
ATOM	2654	CB	SER	449	-7.685	10.436	63.195	1.00	20.00	C
ATOM	2655	OG	SER	449	-6.832	9.582	63.934	1.00	20.00	O
ATOM	2656	C	SER	449	-8.003	11.706	61.112	1.00	20.00	C
ATOM	2657	O	SER	449	-7.830	12.925	61.198	1.00	20.00	O
ATOM	2658	N	HIS	450	-9.020	11.161	60.452	1.00	20.00	N
ATOM	2659	CA	HIS	450	-9.969	12.005	59.733	1.00	20.00	C
ATOM	2660	CB	HIS	450	-10.981	11.148	58.953	1.00	20.00	C
ATOM	2661	CG	HIS	450	-12.107	11.942	58.364	1.00	20.00	C
ATOM	2662	CD2	HIS	450	-12.104	12.999	57.518	1.00	20.00	C
ATOM	2663	ND1	HIS	450	-13.428	11.713	58.681	1.00	20.00	N
ATOM	2664	CE1	HIS	450	-14.191	12.594	58.060	1.00	20.00	C
ATOM	2665	NE2	HIS	450	-13.412	13.386	57.346	1.00	20.00	N
ATOM	2666	C	HIS	450	-10.694	12.889	60.749	1.00	20.00	C
ATOM	2667	O	HIS	450	-11.173	12.394	61.757	1.00	20.00	O
ATOM	2668	N	GLY	451	-10.763	14.188	60.484	1.00	20.00	N
ATOM	2669	CA	GLY	451	-11.434	15.100	61.391	1.00	20.00	C
ATOM	2670	C	GLY	451	-10.461	15.802	62.323	1.00	20.00	C
ATOM	2671	O	GLY	451	-10.826	16.772	63.002	1.00	20.00	O
ATOM	2672	N	SER	452	-9.211	15.340	62.330	1.00	20.00	N
ATOM	2673	CA	SER	452	-8.187	15.908	63.194	1.00	20.00	C

ATOM	2674	CB	SER	452	-6.803	15.369	62.826	1.00	20.00	C
ATOM	2675	OG	SER	452	-5.797	16.004	63.601	1.00	20.00	O
ATOM	2676	C	SER	452	-8.167	17.420	63.151	1.00	20.00	C
ATOM	2677	O	SER	452	-8.143	18.030	62.078	1.00	20.00	O
ATOM	2678	N	ALA	453	-8.191	18.022	64.331	1.00	20.00	N
ATOM	2679	CA	ALA	453	-8.151	19.469	64.443	1.00	20.00	C
ATOM	2680	CB	ALA	453	-8.502	19.897	65.873	1.00	20.00	C
ATOM	2681	C	ALA	453	-6.754	19.966	64.049	1.00	20.00	C
ATOM	2682	O	ALA	453	-6.608	21.088	63.575	1.00	20.00	O
ATOM	2683	N	GLN	454	-5.728	19.129	64.229	1.00	20.00	N
ATOM	2684	CA	GLN	454	-4.360	19.521	63.867	1.00	20.00	C
ATOM	2685	CB	GLN	454	-3.345	18.496	64.365	1.00	20.00	C
ATOM	2686	CG	GLN	454	-3.157	18.544	65.853	1.00	20.00	C
ATOM	2687	CD	GLN	454	-2.177	17.519	66.319	1.00	20.00	C
ATOM	2688	OE1	GLN	454	-2.422	16.335	66.207	1.00	20.00	O
ATOM	2689	NE2	GLN	454	-1.045	17.964	66.815	1.00	20.00	N
ATOM	2690	C	GLN	454	-4.235	19.699	62.351	1.00	20.00	C
ATOM	2691	O	GLN	454	-3.645	20.669	61.880	1.00	20.00	O
ATOM	2692	N	VAL	455	-4.814	18.763	61.601	1.00	20.00	N
ATOM	2693	CA	VAL	455	-4.811	18.809	60.134	1.00	20.00	C
ATOM	2694	CB	VAL	455	-5.342	17.474	59.533	1.00	20.00	C
ATOM	2695	CG1	VAL	455	-5.424	17.569	58.012	1.00	20.00	C
ATOM	2696	CG2	VAL	455	-4.424	16.324	59.919	1.00	20.00	C
ATOM	2697	C	VAL	455	-5.672	19.995	59.649	1.00	20.00	C
ATOM	2698	O	VAL	455	-5.317	20.683	58.695	1.00	20.00	O
ATOM	2699	N	LYS	456	-6.790	20.233	60.332	1.00	20.00	N
ATOM	2700	CA	LYS	456	-7.685	21.336	60.016	1.00	20.00	C
ATOM	2701	CB	LYS	456	-8.873	21.336	60.969	1.00	20.00	C
ATOM	2702	CG	LYS	456	-10.173	20.849	60.399	1.00	20.00	C
ATOM	2703	CD	LYS	456	-11.323	21.697	60.963	1.00	20.00	C
ATOM	2704	CE	LYS	456	-12.664	21.035	60.721	1.00	20.00	C
ATOM	2705	NZ	LYS	456	-12.756	19.756	61.494	1.00	20.00	N
ATOM	2706	C	LYS	456	-6.955	22.656	60.198	1.00	20.00	C
ATOM	2707	O	LYS	456	-7.088	23.557	59.378	1.00	20.00	O
ATOM	2708	N	GLY	457	-6.250	22.782	61.322	1.00	20.00	N
ATOM	2709	CA	GLY	457	-5.517	23.995	61.632	1.00	20.00	C
ATOM	2710	C	GLY	457	-4.401	24.210	60.635	1.00	20.00	C
ATOM	2711	O	GLY	457	-4.164	25.330	60.163	1.00	20.00	O
ATOM	2712	N	HIS	458	-3.714	23.132	60.294	1.00	20.00	N
ATOM	2713	CA	HIS	458	-2.633	23.239	59.331	1.00	20.00	C
ATOM	2714	CB	HIS	458	-1.813	21.953	59.298	1.00	20.00	C
ATOM	2715	CG	HIS	458	-0.566	22.068	58.487	1.00	20.00	C
ATOM	2716	CD2	HIS	458	-0.124	21.357	57.422	1.00	20.00	C
ATOM	2717	ND1	HIS	458	0.358	23.069	58.689	1.00	20.00	N
ATOM	2718	CE1	HIS	458	1.309	22.981	57.778	1.00	20.00	C
ATOM	2719	NE2	HIS	458	1.042	21.950	56.996	1.00	20.00	N
ATOM	2720	C	HIS	458	-3.212	23.561	57.942	1.00	20.00	C
ATOM	2721	O	HIS	458	-2.663	24.397	57.206	1.00	20.00	O
ATOM	2722	N	GLY	459	-4.345	22.946	57.612	1.00	20.00	N
ATOM	2723	CA	GLY	459	-4.972	23.188	56.324	1.00	20.00	C
ATOM	2724	C	GLY	459	-5.296	24.654	56.153	1.00	20.00	C
ATOM	2725	O	GLY	459	-5.114	25.217	55.071	1.00	20.00	O
ATOM	2726	N	LYS	460	-5.752	25.287	57.231	1.00	20.00	N
ATOM	2727	CA	LYS	460	-6.074	26.697	57.173	1.00	20.00	C
ATOM	2728	CB	LYS	460	-6.844	27.132	58.413	1.00	20.00	C
ATOM	2729	CG	LYS	460	-7.070	28.621	58.438	1.00	20.00	C
ATOM	2730	CD	LYS	460	-8.408	28.993	59.018	1.00	20.00	C

ATOM	2731	CE	LYS	460	-8.613	30.500	58.896	1.00	20.00	C
ATOM	2732	NZ	LYS	460	-8.428	31.000	57.502	1.00	20.00	N
ATOM	2733	C	LYS	460	-4.820	27.556	56.959	1.00	20.00	C
ATOM	2734	O	LYS	460	-4.854	28.521	56.198	1.00	20.00	O
ATOM	2735	N	LYS	461	-3.710	27.205	57.606	1.00	20.00	N
ATOM	2736	CA	LYS	461	-2.459	27.952	57.424	1.00	20.00	C
ATOM	2737	CB	LYS	461	-1.373	27.442	58.375	1.00	20.00	C
ATOM	2738	CG	LYS	461	-1.598	27.781	59.823	1.00	20.00	C
ATOM	2739	CD	LYS	461	-0.512	27.149	60.652	1.00	20.00	C
ATOM	2740	CE	LYS	461	-0.708	27.430	62.124	1.00	20.00	C
ATOM	2741	NZ	LYS	461	0.411	26.845	62.920	1.00	20.00	N
ATOM	2742	C	LYS	461	-1.949	27.833	55.972	1.00	20.00	C
ATOM	2743	O	LYS	461	-1.473	28.815	55.391	1.00	20.00	O
ATOM	2744	N	VAL	462	-2.015	26.626	55.405	1.00	20.00	N
ATOM	2745	CA	VAL	462	-1.584	26.397	54.025	1.00	20.00	C
ATOM	2746	CB	VAL	462	-1.665	24.894	53.662	1.00	20.00	C
ATOM	2747	CG1	VAL	462	-1.542	24.695	52.162	1.00	20.00	C
ATOM	2748	CG2	VAL	462	-0.554	24.131	54.359	1.00	20.00	C
ATOM	2749	C	VAL	462	-2.481	27.229	53.091	1.00	20.00	C
ATOM	2750	O	VAL	462	-1.991	27.993	52.250	1.00	20.00	O
ATOM	2751	N	ALA	463	-3.793	27.113	53.279	1.00	20.00	N
ATOM	2752	CA	ALA	463	-4.759	27.855	52.484	1.00	20.00	C
ATOM	2753	CB	ALA	463	-6.174	27.515	52.936	1.00	20.00	C
ATOM	2754	C	ALA	463	-4.525	29.366	52.564	1.00	20.00	C
ATOM	2755	O	ALA	463	-4.607	30.069	51.556	1.00	20.00	O
ATOM	2756	N	ASP	464	-4.258	29.882	53.760	1.00	20.00	N
ATOM	2757	CA	ASP	464	-4.014	31.320	53.915	1.00	20.00	C
ATOM	2758	CB	ASP	464	-3.893	31.722	55.397	1.00	20.00	C
ATOM	2759	CG	ASP	464	-5.219	31.654	56.149	1.00	20.00	C
ATOM	2760	OD1	ASP	464	-6.288	31.479	55.527	1.00	20.00	O
ATOM	2761	OD2	ASP	464	-5.185	31.772	57.383	1.00	20.00	O
ATOM	2762	C	ASP	464	-2.748	31.748	53.181	1.00	20.00	C
ATOM	2763	O	ASP	464	-2.691	32.857	52.662	1.00	20.00	O
ATOM	2764	N	ALA	465	-1.723	30.889	53.189	1.00	20.00	N
ATOM	2765	CA	ALA	465	-0.463	31.181	52.507	1.00	20.00	C
ATOM	2766	CB	ALA	465	0.538	30.077	52.760	1.00	20.00	C
ATOM	2767	C	ALA	465	-0.729	31.332	51.000	1.00	20.00	C
ATOM	2768	O	ALA	465	-0.225	32.257	50.359	1.00	20.00	O
ATOM	2769	N	LEU	466	-1.553	30.438	50.454	1.00	20.00	N
ATOM	2770	CA	LEU	466	-1.920	30.455	49.036	1.00	20.00	C
ATOM	2771	CB	LEU	466	-2.729	29.204	48.678	1.00	20.00	C
ATOM	2772	CG	LEU	466	-2.058	27.965	48.053	1.00	20.00	C
ATOM	2773	CD1	LEU	466	-0.562	28.084	47.898	1.00	20.00	C
ATOM	2774	CD2	LEU	466	-2.419	26.731	48.843	1.00	20.00	C
ATOM	2775	C	LEU	466	-2.716	31.715	48.706	1.00	20.00	C
ATOM	2776	O	LEU	466	-2.474	32.362	47.685	1.00	20.00	O
ATOM	2777	N	THR	467	-3.648	32.077	49.583	1.00	20.00	N
ATOM	2778	CA	THR	467	-4.450	33.280	49.391	1.00	20.00	C
ATOM	2779	CB	THR	467	-5.397	33.525	50.588	1.00	20.00	C
ATOM	2780	OG1	THR	467	-6.317	32.439	50.682	1.00	20.00	O
ATOM	2781	CG2	THR	467	-6.174	34.822	50.423	1.00	20.00	C
ATOM	2782	C	THR	467	-3.516	34.469	49.274	1.00	20.00	C
ATOM	2783	O	THR	467	-3.715	35.331	48.432	1.00	20.00	O
ATOM	2784	N	ASN	468	-2.501	34.503	50.135	1.00	20.00	N
ATOM	2785	CA	ASN	468	-1.521	35.581	50.140	1.00	20.00	C
ATOM	2786	CB	ASN	468	-0.581	35.425	51.336	1.00	20.00	C
ATOM	2787	CG	ASN	468	0.486	36.496	51.370	1.00	20.00	C

ATOM	2788	OD1	ASN	468	0.200	37.670	51.160	1.00	20.00	O
ATOM	2789	ND2	ASN	468	1.727	36.095	51.621	1.00	20.00	N
ATOM	2790	C	ASN	468	-0.721	35.584	48.825	1.00	20.00	C
ATOM	2791	O	ASN	468	-0.396	36.646	48.279	1.00	20.00	O
ATOM	2792	N	ALA	469	-0.410	34.387	48.332	1.00	20.00	N
ATOM	2793	CA	ALA	469	0.325	34.229	47.086	1.00	20.00	C
ATOM	2794	CB	ALA	469	0.713	32.754	46.870	1.00	20.00	C
ATOM	2795	C	ALA	469	-0.524	34.750	45.927	1.00	20.00	C
ATOM	2796	O	ALA	469	-0.004	35.439	45.050	1.00	20.00	O
ATOM	2797	N	VAL	470	-1.825	34.450	45.933	1.00	20.00	N
ATOM	2798	CA	VAL	470	-2.720	34.925	44.869	1.00	20.00	C
ATOM	2799	CB	VAL	470	-4.154	34.315	44.981	1.00	20.00	C
ATOM	2800	CG1	VAL	470	-5.066	34.923	43.928	1.00	20.00	C
ATOM	2801	CG2	VAL	470	-4.115	32.798	44.805	1.00	20.00	C
ATOM	2802	C	VAL	470	-2.794	36.464	44.878	1.00	20.00	C
ATOM	2803	O	VAL	470	-2.732	37.099	43.825	1.00	20.00	O
ATOM	2804	N	ALA	471	-2.862	37.056	46.070	1.00	20.00	N
ATOM	2805	CA	ALA	471	-2.927	38.508	46.224	1.00	20.00	C
ATOM	2806	CB	ALA	471	-3.191	38.872	47.667	1.00	20.00	C
ATOM	2807	C	ALA	471	-1.656	39.190	45.747	1.00	20.00	C
ATOM	2808	O	ALA	471	-1.687	40.342	45.338	1.00	20.00	O
ATOM	2809	N	HIS	472	-0.534	38.484	45.810	1.00	20.00	N
ATOM	2810	CA	HIS	472	0.753	39.032	45.380	1.00	20.00	C
ATOM	2811	CB	HIS	472	1.740	39.059	46.550	1.00	20.00	C
ATOM	2812	CG	HIS	472	1.212	39.764	47.754	1.00	20.00	C
ATOM	2813	CD2	HIS	472	0.472	39.312	48.791	1.00	20.00	C
ATOM	2814	ND1	HIS	472	1.362	41.117	47.950	1.00	20.00	N
ATOM	2815	CE1	HIS	472	0.730	41.475	49.052	1.00	20.00	C
ATOM	2816	NE2	HIS	472	0.180	40.395	49.583	1.00	20.00	N
ATOM	2817	C	HIS	472	1.349	38.185	44.274	1.00	20.00	C
ATOM	2818	O	HIS	472	2.563	37.955	44.260	1.00	20.00	O
ATOM	2819	N	VAL	473	0.511	37.746	43.340	1.00	20.00	N
ATOM	2820	CA	VAL	473	0.964	36.901	42.243	1.00	20.00	C
ATOM	2821	CB	VAL	473	-0.227	36.498	41.303	1.00	20.00	C
ATOM	2822	CG1	VAL	473	-0.708	37.687	40.476	1.00	20.00	C
ATOM	2823	CG2	VAL	473	0.162	35.338	40.412	1.00	20.00	C
ATOM	2824	C	VAL	473	2.131	37.507	41.448	1.00	20.00	C
ATOM	2825	O	VAL	473	2.953	36.778	40.892	1.00	20.00	O
ATOM	2826	N	ASP	474	2.246	38.832	41.469	1.00	20.00	N
ATOM	2827	CA	ASP	474	3.315	39.531	40.750	1.00	20.00	C
ATOM	2828	CB	ASP	474	2.829	40.904	40.291	1.00	20.00	C
ATOM	2829	CG	ASP	474	1.614	40.822	39.401	1.00	20.00	C
ATOM	2830	OD1	ASP	474	1.750	40.309	38.272	1.00	20.00	O
ATOM	2831	OD2	ASP	474	0.526	41.268	39.833	1.00	20.00	O
ATOM	2832	C	ASP	474	4.563	39.742	41.593	1.00	20.00	C
ATOM	2833	O	ASP	474	5.577	40.212	41.096	1.00	20.00	O
ATOM	2834	N	ASP	475	4.497	39.365	42.859	1.00	20.00	N
ATOM	2835	CA	ASP	475	5.607	39.569	43.768	1.00	20.00	C
ATOM	2836	CB	ASP	475	5.366	40.905	44.482	1.00	20.00	C
ATOM	2837	CG	ASP	475	6.554	41.369	45.272	1.00	20.00	C
ATOM	2838	OD1	ASP	475	7.641	41.525	44.672	1.00	20.00	O
ATOM	2839	OD2	ASP	475	6.392	41.581	46.496	1.00	20.00	O
ATOM	2840	C	ASP	475	5.660	38.407	44.769	1.00	20.00	C
ATOM	2841	O	ASP	475	5.851	38.609	45.974	1.00	20.00	O
ATOM	2842	N	MET	476	5.505	37.185	44.262	1.00	20.00	N
ATOM	2843	CA	MET	476	5.513	35.995	45.116	1.00	20.00	C
ATOM	2844	CB	MET	476	5.151	34.741	44.322	1.00	20.00	C

ATOM	2845	CG	MET	476	3.678	34.566	44.087	1.00	20.00	C
ATOM	2846	SD	MET	476	3.280	32.899	43.552	1.00	20.00	S
ATOM	2847	CE	MET	476	3.836	32.970	41.874	1.00	20.00	C
ATOM	2848	C	MET	476	6.780	35.726	45.931	1.00	20.00	C
ATOM	2849	O	MET	476	6.691	35.340	47.097	1.00	20.00	O
ATOM	2850	N	PRO	477	7.976	35.901	45.331	1.00	20.00	N
ATOM	2851	CD	PRO	477	8.306	36.238	43.933	1.00	20.00	C
ATOM	2852	CA	PRO	477	9.199	35.638	46.103	1.00	20.00	C
ATOM	2853	CB	PRO	477	10.314	35.995	45.114	1.00	20.00	C
ATOM	2854	CG	PRO	477	9.697	35.654	43.789	1.00	20.00	C
ATOM	2855	C	PRO	477	9.294	36.437	47.406	1.00	20.00	C
ATOM	2856	O	PRO	477	9.653	35.884	48.431	1.00	20.00	O
ATOM	2857	N	ASN	478	8.974	37.724	47.376	1.00	20.00	N
ATOM	2858	CA	ASN	478	9.029	38.495	48.606	1.00	20.00	C
ATOM	2859	CB	ASN	478	8.998	40.000	48.340	1.00	20.00	C
ATOM	2860	CG	ASN	478	9.145	40.813	49.622	1.00	20.00	C
ATOM	2861	OD1	ASN	478	10.184	40.762	50.283	1.00	20.00	O
ATOM	2862	ND2	ASN	478	8.104	41.550	49.988	1.00	20.00	N
ATOM	2863	C	ASN	478	7.868	38.106	49.526	1.00	20.00	C
ATOM	2864	O	ASN	478	8.057	37.917	50.728	1.00	20.00	O
ATOM	2865	N	ALA	479	6.670	37.963	48.960	1.00	20.00	N
ATOM	2866	CA	ALA	479	5.492	37.585	49.750	1.00	20.00	C
ATOM	2867	CB	ALA	479	4.256	37.478	48.845	1.00	20.00	C
ATOM	2868	C	ALA	479	5.668	36.275	50.525	1.00	20.00	C
ATOM	2869	O	ALA	479	5.177	36.145	51.646	1.00	20.00	O
ATOM	2870	N	LEU	480	6.347	35.306	49.917	1.00	20.00	N
ATOM	2871	CA	LEU	480	6.562	34.000	50.530	1.00	20.00	C
ATOM	2872	CB	LEU	480	6.295	32.898	49.497	1.00	20.00	C
ATOM	2873	CG	LEU	480	4.943	32.849	48.778	1.00	20.00	C
ATOM	2874	CD1	LEU	480	4.970	31.754	47.715	1.00	20.00	C
ATOM	2875	CD2	LEU	480	3.833	32.602	49.788	1.00	20.00	C
ATOM	2876	C	LEU	480	7.964	33.810	51.103	1.00	20.00	C
ATOM	2877	O	LEU	480	8.330	32.703	51.479	1.00	20.00	O
ATOM	2878	N	SER	481	8.712	34.895	51.244	1.00	20.00	N
ATOM	2879	CA	SER	481	10.081	34.825	51.744	1.00	20.00	C
ATOM	2880	CB	SER	481	10.667	36.233	51.863	1.00	20.00	C
ATOM	2881	OG	SER	481	12.064	36.171	52.116	1.00	20.00	O
ATOM	2882	C	SER	481	10.287	34.077	53.067	1.00	20.00	C
ATOM	2883	O	SER	481	11.211	33.257	53.197	1.00	20.00	O
ATOM	2884	N	ALA	482	9.462	34.390	54.066	1.00	20.00	N
ATOM	2885	CA	ALA	482	9.585	33.746	55.366	1.00	20.00	C
ATOM	2886	CB	ALA	482	8.679	34.415	56.374	1.00	20.00	C
ATOM	2887	C	ALA	482	9.256	32.267	55.251	1.00	20.00	C
ATOM	2888	O	ALA	482	9.863	31.429	55.925	1.00	20.00	O
ATOM	2889	N	LEU	483	8.306	31.944	54.378	1.00	20.00	N
ATOM	2890	CA	LEU	483	7.914	30.558	54.171	1.00	20.00	C
ATOM	2891	CB	LEU	483	6.598	30.508	53.398	1.00	20.00	C
ATOM	2892	CG	LEU	483	5.382	29.909	54.110	1.00	20.00	C
ATOM	2893	CD1	LEU	483	5.360	30.224	55.598	1.00	20.00	C
ATOM	2894	CD2	LEU	483	4.127	30.414	53.442	1.00	20.00	C
ATOM	2895	C	LEU	483	9.035	29.771	53.462	1.00	20.00	C
ATOM	2896	O	LEU	483	9.266	28.599	53.777	1.00	20.00	O
ATOM	2897	N	SER	484	9.741	30.414	52.530	1.00	20.00	N
ATOM	2898	CA	SER	484	10.859	29.772	51.825	1.00	20.00	C
ATOM	2899	CB	SER	484	11.456	30.712	50.786	1.00	20.00	C
ATOM	2900	OG	SER	484	10.482	31.071	49.846	1.00	20.00	O
ATOM	2901	C	SER	484	11.951	29.461	52.831	1.00	20.00	C

ATOM	2902	O	SER	484	12.537	28.376	52.811	1.00	20.00	O
ATOM	2903	N	ASP	485	12.258	30.440	53.682	1.00	20.00	N
ATOM	2904	CA	ASP	485	13.291	30.256	54.707	1.00	20.00	C
ATOM	2905	CB	ASP	485	13.438	31.502	55.575	1.00	20.00	C
ATOM	2906	CG	ASP	485	14.072	32.665	54.843	1.00	20.00	C
ATOM	2907	OD1	ASP	485	14.733	32.459	53.794	1.00	20.00	O
ATOM	2908	OD2	ASP	485	13.918	33.795	55.348	1.00	20.00	O
ATOM	2909	C	ASP	485	12.942	29.098	55.615	1.00	20.00	C
ATOM	2910	O	ASP	485	13.792	28.265	55.905	1.00	20.00	O
ATOM	2911	N	LEU	486	11.685	29.064	56.053	1.00	20.00	N
ATOM	2912	CA	LEU	486	11.184	28.029	56.945	1.00	20.00	C
ATOM	2913	CB	LEU	486	9.720	28.294	57.306	1.00	20.00	C
ATOM	2914	CG	LEU	486	9.166	27.328	58.355	1.00	20.00	C
ATOM	2915	CD1	LEU	486	9.924	27.512	59.660	1.00	20.00	C
ATOM	2916	CD2	LEU	486	7.674	27.546	58.547	1.00	20.00	C
ATOM	2917	C	LEU	486	11.311	26.627	56.372	1.00	20.00	C
ATOM	2918	O	LEU	486	11.827	25.717	57.037	1.00	20.00	O
ATOM	2919	N	HIS	487	10.821	26.436	55.150	1.00	20.00	N
ATOM	2920	CA	HIS	487	10.897	25.115	54.528	1.00	20.00	C
ATOM	2921	CB	HIS	487	9.931	25.011	53.338	1.00	20.00	C
ATOM	2922	CG	HIS	487	8.481	25.049	53.730	1.00	20.00	C
ATOM	2923	ND1	HIS	487	7.811	26.195	54.101	1.00	20.00	N
ATOM	2924	CD2	HIS	487	7.562	24.050	53.789	1.00	20.00	C
ATOM	2925	NE2	HIS	487	6.338	24.574	54.188	1.00	20.00	N
ATOM	2926	CE1	HIS	487	6.538	25.866	54.364	1.00	20.00	C
ATOM	2927	C	HIS	487	12.335	24.744	54.139	1.00	20.00	C
ATOM	2928	O	HIS	487	12.761	23.604	54.330	1.00	20.00	O
ATOM	2929	N	ALA	488	13.117	25.722	53.705	1.00	20.00	N
ATOM	2930	CA	ALA	488	14.501	25.454	53.320	1.00	20.00	C
ATOM	2931	CB	ALA	488	15.092	26.646	52.562	1.00	20.00	C
ATOM	2932	C	ALA	488	15.421	25.111	54.484	1.00	20.00	C
ATOM	2933	O	ALA	488	16.225	24.186	54.388	1.00	20.00	O
ATOM	2934	N	HIS	489	15.310	25.862	55.577	1.00	20.00	N
ATOM	2935	CA	HIS	489	16.214	25.680	56.711	1.00	20.00	C
ATOM	2936	CB	HIS	489	16.857	27.029	57.070	1.00	20.00	C
ATOM	2937	CG	HIS	489	17.431	27.743	55.882	1.00	20.00	C
ATOM	2938	CD2	HIS	489	17.081	28.910	55.289	1.00	20.00	C
ATOM	2939	ND1	HIS	489	18.436	27.205	55.104	1.00	20.00	N
ATOM	2940	CE1	HIS	489	18.679	28.007	54.082	1.00	20.00	C
ATOM	2941	NE2	HIS	489	17.870	29.048	54.169	1.00	20.00	N
ATOM	2942	C	HIS	489	15.736	24.969	57.966	1.00	20.00	C
ATOM	2943	O	HIS	489	16.564	24.556	58.775	1.00	20.00	O
ATOM	2944	N	LYS	490	14.429	24.810	58.136	1.00	20.00	N
ATOM	2945	CA	LYS	490	13.930	24.125	59.316	1.00	20.00	C
ATOM	2946	CB	LYS	490	13.069	25.074	60.163	1.00	20.00	C
ATOM	2947	CG	LYS	490	12.408	24.386	61.351	1.00	20.00	C
ATOM	2948	CD	LYS	490	11.459	25.324	62.110	1.00	20.00	C
ATOM	2949	CE	LYS	490	10.488	24.550	63.020	1.00	20.00	C
ATOM	2950	NZ	LYS	490	11.197	23.671	63.999	1.00	20.00	N
ATOM	2951	C	LYS	490	13.164	22.836	58.987	1.00	20.00	C
ATOM	2952	O	LYS	490	13.599	21.738	59.354	1.00	20.00	O
ATOM	2953	N	LEU	491	12.040	22.968	58.281	1.00	20.00	N
ATOM	2954	CA	LEU	491	11.223	21.809	57.922	1.00	20.00	C
ATOM	2955	CB	LEU	491	9.926	22.275	57.275	1.00	20.00	C
ATOM	2956	CG	LEU	491	9.181	23.276	58.147	1.00	20.00	C
ATOM	2957	CD1	LEU	491	7.927	23.740	57.427	1.00	20.00	C
ATOM	2958	CD2	LEU	491	8.854	22.619	59.482	1.00	20.00	C

ATOM	2959	C	LEU	491	11.964	20.821	57.010	1.00	20.00	C
ATOM	2960	O	LEU	491	11.897	19.608	57.212	1.00	20.00	O
ATOM	2961	N	ARG	492	12.644	21.343	55.989	1.00	20.00	N
ATOM	2962	CA	ARG	492	13.422	20.520	55.066	1.00	20.00	C
ATOM	2963	CB	ARG	492	14.653	19.991	55.783	1.00	20.00	C
ATOM	2964	CG	ARG	492	15.639	21.092	55.986	1.00	20.00	C
ATOM	2965	CD	ARG	492	16.514	20.853	57.152	1.00	20.00	C
ATOM	2966	NE	ARG	492	17.654	21.736	57.096	1.00	20.00	N
ATOM	2967	CZ	ARG	492	18.393	22.042	58.139	1.00	20.00	C
ATOM	2968	NH1	ARG	492	18.096	21.576	59.313	1.00	20.00	N
ATOM	2969	NH2	ARG	492	19.563	22.554	57.917	1.00	20.00	N
ATOM	2970	C	ARG	492	12.650	19.395	54.386	1.00	20.00	C
ATOM	2971	O	ARG	492	13.093	18.244	54.332	1.00	20.00	O
ATOM	2972	N	VAL	493	11.506	19.765	53.831	1.00	20.00	N
ATOM	2973	CA	VAL	493	10.628	18.841	53.143	1.00	20.00	C
ATOM	2974	CB	VAL	493	9.229	19.499	52.955	1.00	20.00	C
ATOM	2975	CG1	VAL	493	8.300	18.592	52.148	1.00	20.00	C
ATOM	2976	CG2	VAL	493	8.628	19.847	54.306	1.00	20.00	C
ATOM	2977	C	VAL	493	11.237	18.550	51.766	1.00	20.00	C
ATOM	2978	O	VAL	493	11.503	19.480	51.013	1.00	20.00	O
ATOM	2979	N	ASP	494	11.462	17.281	51.431	1.00	20.00	N
ATOM	2980	CA	ASP	494	12.014	16.965	50.120	1.00	20.00	C
ATOM	2981	CB	ASP	494	12.124	15.458	49.897	1.00	20.00	C
ATOM	2982	CG	ASP	494	12.885	15.116	48.617	1.00	20.00	C
ATOM	2983	OD1	ASP	494	14.097	14.812	48.702	1.00	20.00	O
ATOM	2984	OD2	ASP	494	12.274	15.174	47.525	1.00	20.00	O
ATOM	2985	C	ASP	494	11.117	17.594	49.047	1.00	20.00	C
ATOM	2986	O	ASP	494	9.889	17.499	49.123	1.00	20.00	O
ATOM	2987	N	PRO	495	11.725	18.231	48.027	1.00	20.00	N
ATOM	2988	CD	PRO	495	13.183	18.372	47.845	1.00	20.00	C
ATOM	2989	CA	PRO	495	11.011	18.894	46.928	1.00	20.00	C
ATOM	2990	CB	PRO	495	12.143	19.282	45.970	1.00	20.00	C
ATOM	2991	CG	PRO	495	13.262	19.567	46.905	1.00	20.00	C
ATOM	2992	C	PRO	495	9.918	18.105	46.210	1.00	20.00	C
ATOM	2993	O	PRO	495	8.927	18.701	45.793	1.00	20.00	O
ATOM	2994	N	VAL	496	10.070	16.783	46.080	1.00	20.00	N
ATOM	2995	CA	VAL	496	9.056	15.982	45.385	1.00	20.00	C
ATOM	2996	CB	VAL	496	9.444	14.476	45.278	1.00	20.00	C
ATOM	2997	CG1	VAL	496	10.840	14.333	44.738	1.00	20.00	C
ATOM	2998	CG2	VAL	496	9.336	13.782	46.620	1.00	20.00	C
ATOM	2999	C	VAL	496	7.668	16.069	46.020	1.00	20.00	C
ATOM	3000	O	VAL	496	6.650	15.978	45.321	1.00	20.00	O
ATOM	3001	N	ASN	497	7.628	16.299	47.332	1.00	20.00	N
ATOM	3002	CA	ASN	497	6.364	16.345	48.049	1.00	20.00	C
ATOM	3003	CB	ASN	497	6.604	16.284	49.548	1.00	20.00	C
ATOM	3004	CG	ASN	497	7.295	14.997	49.964	1.00	20.00	C
ATOM	3005	OD1	ASN	497	6.661	13.944	50.079	1.00	20.00	O
ATOM	3006	ND2	ASN	497	8.604	15.072	50.171	1.00	20.00	N
ATOM	3007	C	ASN	497	5.472	17.508	47.693	1.00	20.00	C
ATOM	3008	O	ASN	497	4.251	17.434	47.863	1.00	20.00	O
ATOM	3009	N	PHE	498	6.063	18.570	47.160	1.00	20.00	N
ATOM	3010	CA	PHE	498	5.274	19.725	46.766	1.00	20.00	C
ATOM	3011	CB	PHE	498	6.163	20.928	46.511	1.00	20.00	C
ATOM	3012	CG	PHE	498	6.800	21.465	47.764	1.00	20.00	C
ATOM	3013	CD1	PHE	498	6.217	22.525	48.454	1.00	20.00	C
ATOM	3014	CD2	PHE	498	7.974	20.903	48.264	1.00	20.00	C
ATOM	3015	CE1	PHE	498	6.797	23.031	49.642	1.00	20.00	C

ATOM	3016	CE2	PHE	498	8.567	21.398	49.452	1.00	20.00	C
ATOM	3017	CZ	PHE	498	7.973	22.465	50.140	1.00	20.00	C
ATOM	3018	C	PHE	498	4.415	19.382	45.560	1.00	20.00	C
ATOM	3019	O	PHE	498	3.301	19.880	45.432	1.00	20.00	O
ATOM	3020	N	LYS	499	4.893	18.452	44.739	1.00	20.00	N
ATOM	3021	CA	LYS	499	4.147	18.012	43.564	1.00	20.00	C
ATOM	3022	CB	LYS	499	5.029	17.169	42.634	1.00	20.00	C
ATOM	3023	CG	LYS	499	6.444	17.715	42.476	1.00	20.00	C
ATOM	3024	CD	LYS	499	7.421	16.648	41.950	1.00	20.00	C
ATOM	3025	CE	LYS	499	8.054	17.048	40.604	1.00	20.00	C
ATOM	3026	NZ	LYS	499	7.225	16.644	39.416	1.00	20.00	N
ATOM	3027	C	LYS	499	2.949	17.195	44.013	1.00	20.00	C
ATOM	3028	O	LYS	499	1.875	17.279	43.413	1.00	20.00	O
ATOM	3029	N	LEU	500	3.136	16.408	45.071	1.00	20.00	N
ATOM	3030	CA	LEU	500	2.062	15.572	45.612	1.00	20.00	C
ATOM	3031	CB	LEU	500	2.606	14.598	46.651	1.00	20.00	C
ATOM	3032	CG	LEU	500	3.794	13.763	46.169	1.00	20.00	C
ATOM	3033	CD1	LEU	500	4.242	12.780	47.248	1.00	20.00	C
ATOM	3034	CD2	LEU	500	3.414	13.029	44.902	1.00	20.00	C
ATOM	3035	C	LEU	500	0.941	16.425	46.217	1.00	20.00	C
ATOM	3036	O	LEU	500	-0.239	16.167	45.960	1.00	20.00	O
ATOM	3037	N	LEU	501	1.299	17.450	46.992	1.00	20.00	N
ATOM	3038	CA	LEU	501	0.296	18.336	47.597	1.00	20.00	C
ATOM	3039	CB	LEU	501	0.957	19.308	48.581	1.00	20.00	C
ATOM	3040	CG	LEU	501	0.199	19.820	49.808	1.00	20.00	C
ATOM	3041	CD1	LEU	501	0.597	21.256	50.037	1.00	20.00	C
ATOM	3042	CD2	LEU	501	-1.320	19.698	49.681	1.00	20.00	C
ATOM	3043	C	LEU	501	-0.438	19.138	46.504	1.00	20.00	C
ATOM	3044	O	LEU	501	-1.666	19.298	46.554	1.00	20.00	O
ATOM	3045	N	SER	502	0.325	19.682	45.553	1.00	20.00	N
ATOM	3046	CA	SER	502	-0.234	20.455	44.436	1.00	20.00	C
ATOM	3047	CB	SER	502	0.865	20.852	43.448	1.00	20.00	C
ATOM	3048	OG	SER	502	1.714	21.834	44.013	1.00	20.00	O
ATOM	3049	C	SER	502	-1.295	19.619	43.732	1.00	20.00	C
ATOM	3050	O	SER	502	-2.409	20.093	43.500	1.00	20.00	O
ATOM	3051	N	HIS	503	-0.982	18.357	43.452	1.00	20.00	N
ATOM	3052	CA	HIS	503	-1.945	17.476	42.808	1.00	20.00	C
ATOM	3053	CB	HIS	503	-1.331	16.098	42.558	1.00	20.00	C
ATOM	3054	CG	HIS	503	-2.285	15.110	41.951	1.00	20.00	C
ATOM	3055	CD2	HIS	503	-2.930	15.115	40.759	1.00	20.00	C
ATOM	3056	ND1	HIS	503	-2.693	13.961	42.599	1.00	20.00	N
ATOM	3057	CE1	HIS	503	-3.547	13.301	41.834	1.00	20.00	C
ATOM	3058	NE2	HIS	503	-3.710	13.980	40.713	1.00	20.00	N
ATOM	3059	C	HIS	503	-3.218	17.333	43.654	1.00	20.00	C
ATOM	3060	O	HIS	503	-4.332	17.453	43.140	1.00	20.00	O
ATOM	3061	N	CYS	504	-3.064	17.069	44.947	1.00	20.00	N
ATOM	3062	CA	CYS	504	-4.226	16.907	45.831	1.00	20.00	C
ATOM	3063	CB	CYS	504	-3.793	16.387	47.201	1.00	20.00	C
ATOM	3064	SG	CYS	504	-3.169	14.719	47.100	1.00	20.00	S
ATOM	3065	C	CYS	504	-5.069	18.166	45.978	1.00	20.00	C
ATOM	3066	O	CYS	504	-6.283	18.089	46.180	1.00	20.00	O
ATOM	3067	N	LEU	505	-4.417	19.319	45.910	1.00	20.00	N
ATOM	3068	CA	LEU	505	-5.092	20.610	45.997	1.00	20.00	C
ATOM	3069	CB	LEU	505	-4.051	21.724	45.987	1.00	20.00	C
ATOM	3070	CG	LEU	505	-3.954	22.804	47.065	1.00	20.00	C
ATOM	3071	CD1	LEU	505	-4.983	22.626	48.173	1.00	20.00	C
ATOM	3072	CD2	LEU	505	-2.529	22.790	47.626	1.00	20.00	C

ATOM	3073	C	LEU	505	-5.961	20.746	44.748	1.00	20.00	C
ATOM	3074	O	LEU	505	-7.110	21.197	44.812	1.00	20.00	O
ATOM	3075	N	LEU	506	-5.391	20.351	43.608	1.00	20.00	N
ATOM	3076	CA	LEU	506	-6.081	20.409	42.324	1.00	20.00	C
ATOM	3077	CB	LEU	506	-5.105	20.021	41.210	1.00	20.00	C
ATOM	3078	CG	LEU	506	-4.863	20.889	39.969	1.00	20.00	C
ATOM	3079	CD1	LEU	506	-4.896	22.393	40.232	1.00	20.00	C
ATOM	3080	CD2	LEU	506	-3.536	20.468	39.396	1.00	20.00	C
ATOM	3081	C	LEU	506	-7.305	19.492	42.328	1.00	20.00	C
ATOM	3082	O	LEU	506	-8.373	19.880	41.844	1.00	20.00	O
ATOM	3083	N	VAL	507	-7.149	18.291	42.887	1.00	20.00	N
ATOM	3084	CA	VAL	507	-8.237	17.319	42.987	1.00	20.00	C
ATOM	3085	CB	VAL	507	-7.721	15.949	43.531	1.00	20.00	C
ATOM	3086	CG1	VAL	507	-8.883	15.008	43.832	1.00	20.00	C
ATOM	3087	CG2	VAL	507	-6.808	15.302	42.509	1.00	20.00	C
ATOM	3088	C	VAL	507	-9.342	17.880	43.903	1.00	20.00	C
ATOM	3089	O	VAL	507	-10.539	17.758	43.612	1.00	20.00	O
ATOM	3090	N	THR	508	-8.932	18.543	44.975	1.00	20.00	N
ATOM	3091	CA	THR	508	-9.866	19.130	45.922	1.00	20.00	C
ATOM	3092	CB	THR	508	-9.114	19.691	47.161	1.00	20.00	C
ATOM	3093	OG1	THR	508	-8.479	18.603	47.847	1.00	20.00	O
ATOM	3094	CG2	THR	508	-10.082	20.413	48.114	1.00	20.00	C
ATOM	3095	C	THR	508	-10.680	20.234	45.260	1.00	20.00	C
ATOM	3096	O	THR	508	-11.892	20.339	45.479	1.00	20.00	O
ATOM	3097	N	LEU	509	-10.012	21.065	44.464	1.00	20.00	N
ATOM	3098	CA	LEU	509	-10.682	22.150	43.769	1.00	20.00	C
ATOM	3099	CB	LEU	509	-9.639	23.050	43.108	1.00	20.00	C
ATOM	3100	CG	LEU	509	-9.199	24.320	43.846	1.00	20.00	C
ATOM	3101	CD1	LEU	509	-9.426	24.241	45.339	1.00	20.00	C
ATOM	3102	CD2	LEU	509	-7.761	24.593	43.530	1.00	20.00	C
ATOM	3103	C	LEU	509	-11.662	21.592	42.725	1.00	20.00	C
ATOM	3104	O	LEU	509	-12.802	22.070	42.606	1.00	20.00	O
ATOM	3105	N	ALA	510	-11.227	20.559	41.999	1.00	20.00	N
ATOM	3106	CA	ALA	510	-12.045	19.905	40.975	1.00	20.00	C
ATOM	3107	CB	ALA	510	-11.265	18.766	40.345	1.00	20.00	C
ATOM	3108	C	ALA	510	-13.333	19.363	41.589	1.00	20.00	C
ATOM	3109	O	ALA	510	-14.410	19.520	41.020	1.00	20.00	O
ATOM	3110	N	ALA	511	-13.208	18.738	42.765	1.00	20.00	N
ATOM	3111	CA	ALA	511	-14.342	18.145	43.469	1.00	20.00	C
ATOM	3112	CB	ALA	511	-13.846	17.214	44.562	1.00	20.00	C
ATOM	3113	C	ALA	511	-15.331	19.159	44.050	1.00	20.00	C
ATOM	3114	O	ALA	511	-16.465	18.801	44.380	1.00	20.00	O
ATOM	3115	N	HIS	512	-14.911	20.416	44.159	1.00	20.00	N
ATOM	3116	CA	HIS	512	-15.751	21.471	44.721	1.00	20.00	C
ATOM	3117	CB	HIS	512	-15.046	22.134	45.910	1.00	20.00	C
ATOM	3118	CG	HIS	512	-15.134	21.348	47.179	1.00	20.00	C
ATOM	3119	CD2	HIS	512	-16.107	21.282	48.121	1.00	20.00	C
ATOM	3120	ND1	HIS	512	-14.130	20.501	47.604	1.00	20.00	N
ATOM	3121	CE1	HIS	512	-14.481	19.949	48.750	1.00	20.00	C
ATOM	3122	NE2	HIS	512	-15.675	20.406	49.085	1.00	20.00	N
ATOM	3123	C	HIS	512	-16.171	22.565	43.748	1.00	20.00	C
ATOM	3124	O	HIS	512	-17.139	23.269	43.999	1.00	20.00	O
ATOM	3125	N	LEU	513	-15.438	22.731	42.657	1.00	20.00	N
ATOM	3126	CA	LEU	513	-15.755	23.769	41.687	1.00	20.00	C
ATOM	3127	CB	LEU	513	-14.573	24.735	41.553	1.00	20.00	C
ATOM	3128	CG	LEU	513	-14.096	25.488	42.796	1.00	20.00	C
ATOM	3129	CD1	LEU	513	-12.857	26.295	42.441	1.00	20.00	C

ATOM	3130	CD2	LEU	513	-15.182	26.403	43.343	1.00	20.00	C
ATOM	3131	C	LEU	513	-16.055	23.156	40.329	1.00	20.00	C
ATOM	3132	O	LEU	513	-15.403	23.496	39.342	1.00	20.00	O
ATOM	3133	N	PRO	514	-17.126	22.350	40.224	1.00	20.00	N
ATOM	3134	CD	PRO	514	-18.239	22.140	41.166	1.00	20.00	C
ATOM	3135	CA	PRO	514	-17.431	21.737	38.929	1.00	20.00	C
ATOM	3136	CB	PRO	514	-18.713	20.956	39.216	1.00	20.00	C
ATOM	3137	CG	PRO	514	-19.389	21.795	40.240	1.00	20.00	C
ATOM	3138	C	PRO	514	-17.578	22.732	37.761	1.00	20.00	C
ATOM	3139	O	PRO	514	-17.053	22.496	36.676	1.00	20.00	O
ATOM	3140	N	ALA	515	-18.216	23.874	37.996	1.00	20.00	N
ATOM	3141	CA	ALA	515	-18.392	24.850	36.931	1.00	20.00	C
ATOM	3142	CB	ALA	515	-19.544	25.771	37.251	1.00	20.00	C
ATOM	3143	C	ALA	515	-17.148	25.663	36.589	1.00	20.00	C
ATOM	3144	O	ALA	515	-16.924	25.970	35.427	1.00	20.00	O
ATOM	3145	N	GLU	516	-16.333	26.015	37.579	1.00	20.00	N
ATOM	3146	CA	GLU	516	-15.149	26.823	37.290	1.00	20.00	C
ATOM	3147	CB	GLU	516	-14.777	27.764	38.451	1.00	20.00	C
ATOM	3148	CG	GLU	516	-15.604	27.647	39.723	1.00	20.00	C
ATOM	3149	CD	GLU	516	-16.976	28.299	39.619	1.00	20.00	C
ATOM	3150	OE1	GLU	516	-17.071	29.483	39.231	1.00	20.00	O
ATOM	3151	OE2	GLU	516	-17.967	27.630	39.945	1.00	20.00	O
ATOM	3152	C	GLU	516	-13.922	26.027	36.895	1.00	20.00	C
ATOM	3153	O	GLU	516	-13.012	26.578	36.277	1.00	20.00	O
ATOM	3154	N	PHE	517	-13.899	24.737	37.233	1.00	20.00	N
ATOM	3155	CA	PHE	517	-12.742	23.898	36.940	1.00	20.00	C
ATOM	3156	CB	PHE	517	-12.678	22.669	37.850	1.00	20.00	C
ATOM	3157	CG	PHE	517	-11.319	22.045	37.893	1.00	20.00	C
ATOM	3158	CD1	PHE	517	-10.245	22.733	38.457	1.00	20.00	C
ATOM	3159	CD2	PHE	517	-11.108	20.763	37.391	1.00	20.00	C
ATOM	3160	CE1	PHE	517	-8.977	22.153	38.521	1.00	20.00	C
ATOM	3161	CE2	PHE	517	-9.844	20.168	37.449	1.00	20.00	C
ATOM	3162	CZ	PHE	517	-8.777	20.865	38.020	1.00	20.00	C
ATOM	3163	C	PHE	517	-12.718	23.467	35.465	1.00	20.00	C
ATOM	3164	O	PHE	517	-12.766	22.292	35.138	1.00	20.00	O
ATOM	3165	N	THR	518	-12.625	24.470	34.595	1.00	20.00	N
ATOM	3166	CA	THR	518	-12.555	24.297	33.143	1.00	20.00	C
ATOM	3167	CB	THR	518	-12.699	25.698	32.358	1.00	20.00	C
ATOM	3168	OG1	THR	518	-14.067	26.150	32.421	1.00	20.00	O
ATOM	3169	CG2	THR	518	-12.718	25.413	31.019	1.00	20.00	C
ATOM	3170	C	THR	518	-11.147	23.778	32.751	1.00	20.00	C
ATOM	3171	O	THR	518	-10.186	23.934	33.501	1.00	20.00	O
ATOM	3172	N	PRO	519	-10.992	23.187	31.546	1.00	20.00	N
ATOM	3173	CD	PRO	519	-11.997	22.533	30.675	1.00	20.00	C
ATOM	3174	CA	PRO	519	-9.618	22.736	31.198	1.00	20.00	C
ATOM	3175	CB	PRO	519	-9.774	22.255	29.759	1.00	20.00	C
ATOM	3176	CG	PRO	519	-11.102	21.574	29.803	1.00	20.00	C
ATOM	3177	C	PRO	519	-8.610	23.937	31.243	1.00	20.00	C
ATOM	3178	O	PRO	519	-7.483	23.770	31.699	1.00	20.00	O
ATOM	3179	N	ALA	520	-9.011	25.132	30.793	1.00	20.00	N
ATOM	3180	CA	ALA	520	-8.119	26.300	30.817	1.00	20.00	C
ATOM	3181	CB	ALA	520	-8.773	27.485	30.105	1.00	20.00	C
ATOM	3182	C	ALA	520	-7.731	26.716	32.244	1.00	20.00	C
ATOM	3183	O	ALA	520	-6.568	27.067	32.509	1.00	20.00	O
ATOM	3184	N	VAL	521	-8.713	26.696	33.144	1.00	20.00	N
ATOM	3185	CA	VAL	521	-8.496	27.074	34.533	1.00	20.00	C
ATOM	3186	CB	VAL	521	-9.857	27.286	35.269	1.00	20.00	C

ATOM	3187	CG1	VAL	521	-9.657	27.392	36.794	1.00	20.00	C
ATOM	3188	CG2	VAL	521	-10.524	28.559	34.736	1.00	20.00	C
ATOM	3189	C	VAL	521	-7.614	26.023	35.211	1.00	20.00	C
ATOM	3190	O	VAL	521	-6.724	26.356	35.977	1.00	20.00	O
ATOM	3191	N	HIS	522	-7.818	24.766	34.846	1.00	20.00	N
ATOM	3192	CA	HIS	522	-7.055	23.631	35.367	1.00	20.00	C
ATOM	3193	CB	HIS	522	-7.618	22.364	34.707	1.00	20.00	C
ATOM	3194	CG	HIS	522	-6.914	21.090	35.058	1.00	20.00	C
ATOM	3195	CD2	HIS	522	-5.753	20.840	35.717	1.00	20.00	C
ATOM	3196	ND1	HIS	522	-7.413	19.854	34.694	1.00	20.00	N
ATOM	3197	CE1	HIS	522	-6.592	18.904	35.111	1.00	20.00	C
ATOM	3198	NE2	HIS	522	-5.579	19.474	35.731	1.00	20.00	N
ATOM	3199	C	HIS	522	-5.564	23.839	35.022	1.00	20.00	C
ATOM	3200	O	HIS	522	-4.672	23.650	35.867	1.00	20.00	O
ATOM	3201	N	ALA	523	-5.299	24.257	33.788	1.00	20.00	N
ATOM	3202	CA	ALA	523	-3.933	24.485	33.339	1.00	20.00	C
ATOM	3203	CB	ALA	523	-3.915	24.745	31.827	1.00	20.00	C
ATOM	3204	C	ALA	523	-3.325	25.657	34.104	1.00	20.00	C
ATOM	3205	O	ALA	523	-2.194	25.562	34.579	1.00	20.00	O
ATOM	3206	N	SER	524	-4.086	26.745	34.254	1.00	20.00	N
ATOM	3207	CA	SER	524	-3.604	27.918	34.985	1.00	20.00	C
ATOM	3208	CB	SER	524	-4.620	29.055	34.891	1.00	20.00	C
ATOM	3209	OG	SER	524	-4.764	29.470	33.545	1.00	20.00	O
ATOM	3210	C	SER	524	-3.300	27.611	36.460	1.00	20.00	C
ATOM	3211	O	SER	524	-2.284	28.066	36.991	1.00	20.00	O
ATOM	3212	N	LEU	525	-4.169	26.833	37.110	1.00	20.00	N
ATOM	3213	CA	LEU	525	-3.978	26.474	38.513	1.00	20.00	C
ATOM	3214	CB	LEU	525	-5.216	25.754	39.065	1.00	20.00	C
ATOM	3215	CG	LEU	525	-6.464	26.636	39.273	1.00	20.00	C
ATOM	3216	CD1	LEU	525	-7.646	25.794	39.668	1.00	20.00	C
ATOM	3217	CD2	LEU	525	-6.213	27.698	40.331	1.00	20.00	C
ATOM	3218	C	LEU	525	-2.734	25.613	38.680	1.00	20.00	C
ATOM	3219	O	LEU	525	-1.928	25.841	39.583	1.00	20.00	O
ATOM	3220	N	ASP	526	-2.549	24.658	37.770	1.00	20.00	N
ATOM	3221	CA	ASP	526	-1.389	23.788	37.831	1.00	20.00	C
ATOM	3222	CB	ASP	526	-1.452	22.709	36.747	1.00	20.00	C
ATOM	3223	CG	ASP	526	-0.587	21.498	37.085	1.00	20.00	C
ATOM	3224	OD1	ASP	526	-0.545	21.122	38.273	1.00	20.00	O
ATOM	3225	OD2	ASP	526	0.043	20.913	36.181	1.00	20.00	O
ATOM	3226	C	ASP	526	-0.121	24.628	37.684	1.00	20.00	C
ATOM	3227	O	ASP	526	0.845	24.421	38.422	1.00	20.00	O
ATOM	3228	N	LYS	527	-0.131	25.606	36.776	1.00	20.00	N
ATOM	3229	CA	LYS	527	1.038	26.461	36.593	1.00	20.00	C
ATOM	3230	CB	LYS	527	0.845	27.441	35.423	1.00	20.00	C
ATOM	3231	CG	LYS	527	0.864	26.790	34.053	1.00	20.00	C
ATOM	3232	CD	LYS	527	0.683	27.824	32.939	1.00	20.00	C
ATOM	3233	CE	LYS	527	1.828	28.839	32.943	1.00	20.00	C
ATOM	3234	NZ	LYS	527	1.810	29.756	31.754	1.00	20.00	N
ATOM	3235	C	LYS	527	1.300	27.259	37.865	1.00	20.00	C
ATOM	3236	O	LYS	527	2.450	27.409	38.298	1.00	20.00	O
ATOM	3237	N	PHE	528	0.225	27.780	38.447	1.00	20.00	N
ATOM	3238	CA	PHE	528	0.313	28.571	39.660	1.00	20.00	C
ATOM	3239	CB	PHE	528	-1.067	29.100	40.041	1.00	20.00	C
ATOM	3240	CG	PHE	528	-1.095	29.809	41.358	1.00	20.00	C
ATOM	3241	CD1	PHE	528	-0.370	30.981	41.545	1.00	20.00	C
ATOM	3242	CD2	PHE	528	-1.825	29.296	42.423	1.00	20.00	C
ATOM	3243	CE1	PHE	528	-0.383	31.639	42.765	1.00	20.00	C

ATOM	3244	CE2	PHE	528	-1.840	29.954	43.655	1.00	20.00	C
ATOM	3245	CZ	PHE	528	-1.114	31.124	43.822	1.00	20.00	C
ATOM	3246	C	PHE	528	0.930	27.763	40.816	1.00	20.00	C
ATOM	3247	O	PHE	528	1.854	28.245	41.491	1.00	20.00	O
ATOM	3248	N	LEU	529	0.423	26.549	41.042	1.00	20.00	N
ATOM	3249	CA	LEU	529	0.944	25.692	42.106	1.00	20.00	C
ATOM	3250	CB	LEU	529	0.106	24.424	42.256	1.00	20.00	C
ATOM	3251	CG	LEU	529	-1.281	24.743	42.796	1.00	20.00	C
ATOM	3252	CD1	LEU	529	-2.155	23.496	42.872	1.00	20.00	C
ATOM	3253	CD2	LEU	529	-1.123	25.383	44.161	1.00	20.00	C
ATOM	3254	C	LEU	529	2.398	25.331	41.861	1.00	20.00	C
ATOM	3255	O	LEU	529	3.173	25.212	42.807	1.00	20.00	O
ATOM	3256	N	ALA	530	2.781	25.167	40.599	1.00	20.00	N
ATOM	3257	CA	ALA	530	4.174	24.848	40.285	1.00	20.00	C
ATOM	3258	CB	ALA	530	4.319	24.398	38.847	1.00	20.00	C
ATOM	3259	C	ALA	530	5.095	26.044	40.595	1.00	20.00	C
ATOM	3260	O	ALA	530	6.200	25.848	41.115	1.00	20.00	O
ATOM	3261	N	SER	531	4.653	27.278	40.334	1.00	20.00	N
ATOM	3262	CA	SER	531	5.504	28.430	40.648	1.00	20.00	C
ATOM	3263	CB	SER	531	5.081	29.674	39.871	1.00	20.00	C
ATOM	3264	OG	SER	531	3.681	29.766	39.842	1.00	20.00	O
ATOM	3265	C	SER	531	5.545	28.683	42.166	1.00	20.00	C
ATOM	3266	O	SER	531	6.575	29.092	42.698	1.00	20.00	O
ATOM	3267	N	VAL	532	4.439	28.415	42.865	1.00	20.00	N
ATOM	3268	CA	VAL	532	4.431	28.553	44.323	1.00	20.00	C
ATOM	3269	CB	VAL	532	3.027	28.321	44.936	1.00	20.00	C
ATOM	3270	CG1	VAL	532	3.143	28.119	46.442	1.00	20.00	C
ATOM	3271	CG2	VAL	532	2.135	29.527	44.646	1.00	20.00	C
ATOM	3272	C	VAL	532	5.443	27.537	44.887	1.00	20.00	C
ATOM	3273	O	VAL	532	6.276	27.889	45.722	1.00	20.00	O
ATOM	3274	N	SER	533	5.392	26.299	44.389	1.00	20.00	N
ATOM	3275	CA	SER	533	6.331	25.250	44.801	1.00	20.00	C
ATOM	3276	CB	SER	533	6.041	23.933	44.063	1.00	20.00	C
ATOM	3277	OG	SER	533	4.756	23.439	44.381	1.00	20.00	O
ATOM	3278	C	SER	533	7.788	25.659	44.504	1.00	20.00	C
ATOM	3279	O	SER	533	8.705	25.354	45.275	1.00	20.00	O
ATOM	3280	N	THR	534	8.001	26.301	43.362	1.00	20.00	N
ATOM	3281	CA	THR	534	9.328	26.750	42.971	1.00	20.00	C
ATOM	3282	CB	THR	534	9.306	27.264	41.527	1.00	20.00	C
ATOM	3283	OG1	THR	534	9.051	26.156	40.670	1.00	20.00	O
ATOM	3284	CG2	THR	534	10.638	27.900	41.135	1.00	20.00	C
ATOM	3285	C	THR	534	9.858	27.824	43.925	1.00	20.00	C
ATOM	3286	O	THR	534	11.032	27.792	44.324	1.00	20.00	O
ATOM	3287	N	VAL	535	8.996	28.770	44.298	1.00	20.00	N
ATOM	3288	CA	VAL	535	9.397	29.814	45.231	1.00	20.00	C
ATOM	3289	CB	VAL	535	8.312	30.902	45.356	1.00	20.00	C
ATOM	3290	CG1	VAL	535	8.649	31.868	46.500	1.00	20.00	C
ATOM	3291	CG2	VAL	535	8.195	31.665	44.032	1.00	20.00	C
ATOM	3292	C	VAL	535	9.702	29.181	46.609	1.00	20.00	C
ATOM	3293	O	VAL	535	10.743	29.461	47.200	1.00	20.00	O
ATOM	3294	N	LEU	536	8.842	28.276	47.074	1.00	20.00	N
ATOM	3295	CA	LEU	536	9.044	27.631	48.368	1.00	20.00	C
ATOM	3296	CB	LEU	536	7.811	26.820	48.780	1.00	20.00	C
ATOM	3297	CG	LEU	536	6.605	27.645	49.257	1.00	20.00	C
ATOM	3298	CD1	LEU	536	5.531	26.714	49.801	1.00	20.00	C
ATOM	3299	CD2	LEU	536	7.034	28.642	50.337	1.00	20.00	C
ATOM	3300	C	LEU	536	10.304	26.774	48.509	1.00	20.00	C

ATOM	3301	O	LEU	536	10.761	26.521	49.639	1.00	20.00	O
ATOM	3302	N	THR	537	10.862	26.314	47.388	1.00	20.00	N
ATOM	3303	CA	THR	537	12.076	25.492	47.429	1.00	20.00	C
ATOM	3304	CB	THR	537	11.914	24.175	46.625	1.00	20.00	C
ATOM	3305	OG1	THR	537	11.506	24.475	45.282	1.00	20.00	O
ATOM	3306	CG2	THR	537	10.873	23.278	47.273	1.00	20.00	C
ATOM	3307	C	THR	537	13.308	26.230	46.896	1.00	20.00	C
ATOM	3308	O	THR	537	14.394	25.669	46.868	1.00	20.00	O
ATOM	3309	N	SER	538	13.142	27.503	46.549	1.00	20.00	N
ATOM	3310	CA	SER	538	14.218	28.307	45.986	1.00	20.00	C
ATOM	3311	CB	SER	538	13.677	29.660	45.524	1.00	20.00	C
ATOM	3312	OG	SER	538	13.195	30.426	46.613	1.00	20.00	O
ATOM	3313	C	SER	538	15.445	28.532	46.857	1.00	20.00	C
ATOM	3314	O	SER	538	16.512	28.831	46.328	1.00	20.00	O
ATOM	3315	N	LYS	539	15.308	28.391	48.175	1.00	20.00	N
ATOM	3316	CA	LYS	539	16.434	28.615	49.089	1.00	20.00	C
ATOM	3317	CB	LYS	539	16.003	29.514	50.254	1.00	20.00	C
ATOM	3318	CG	LYS	539	15.207	30.746	49.866	1.00	20.00	C
ATOM	3319	CD	LYS	539	16.078	31.940	49.551	1.00	20.00	C
ATOM	3320	CE	LYS	539	15.220	33.215	49.482	1.00	20.00	C
ATOM	3321	NZ	LYS	539	14.256	33.346	50.657	1.00	20.00	N
ATOM	3322	C	LYS	539	17.002	27.320	49.664	1.00	20.00	C
ATOM	3323	O	LYS	539	17.813	27.356	50.584	1.00	20.00	O
ATOM	3324	N	TYR	540	16.593	26.182	49.115	1.00	20.00	N
ATOM	3325	CA	TYR	540	17.052	24.892	49.622	1.00	20.00	C
ATOM	3326	CB	TYR	540	16.328	23.742	48.925	1.00	20.00	C
ATOM	3327	CG	TYR	540	15.052	23.310	49.620	1.00	20.00	C
ATOM	3328	CD1	TYR	540	14.784	21.960	49.845	1.00	20.00	C
ATOM	3329	CE1	TYR	540	13.608	21.555	50.449	1.00	20.00	C
ATOM	3330	CD2	TYR	540	14.100	24.244	50.030	1.00	20.00	C
ATOM	3331	CE2	TYR	540	12.918	23.843	50.635	1.00	20.00	C
ATOM	3332	CZ	TYR	540	12.678	22.500	50.837	1.00	20.00	C
ATOM	3333	OH	TYR	540	11.488	22.100	51.390	1.00	20.00	O
ATOM	3334	C	TYR	540	18.555	24.665	49.599	1.00	20.00	C
ATOM	3335	O	TYR	540	19.079	23.970	50.460	1.00	20.00	O
ATOM	3336	N	ARG	541	19.245	25.194	48.591	1.00	20.00	N
ATOM	3337	CA	ARG	541	20.700	25.045	48.520	1.00	20.00	C
ATOM	3338	CB	ARG	541	21.111	23.659	48.001	1.00	20.00	C
ATOM	3339	CG	ARG	541	20.673	23.355	46.603	1.00	20.00	C
ATOM	3340	CD	ARG	541	21.203	22.008	46.169	1.00	20.00	C
ATOM	3341	NE	ARG	541	20.798	21.735	44.798	1.00	20.00	N
ATOM	3342	CZ	ARG	541	21.154	20.668	44.091	1.00	20.00	C
ATOM	3343	NH1	ARG	541	21.935	19.732	44.614	1.00	20.00	N
ATOM	3344	NH2	ARG	541	20.730	20.556	42.842	1.00	20.00	N
ATOM	3345	C	ARG	541	21.348	26.148	47.687	1.00	20.00	C
ATOM	3346	OT1	ARG	541	20.590	26.895	47.013	1.00	20.00	O
ATOM	3347	OT2	ARG	541	22.598	26.252	47.737	1.00	20.00	O
ATOM	3348	FE	HEM	543	4.518	23.529	54.578	1.00	20.00	F
ATOM	3349	NA	HEM	543	3.732	25.081	55.620	1.00	20.00	N
ATOM	3350	NB	HEM	543	3.566	24.275	52.977	1.00	20.00	N
ATOM	3351	NC	HEM	543	4.696	21.746	53.685	1.00	20.00	N
ATOM	3352	ND	HEM	543	4.823	22.568	56.311	1.00	20.00	N
ATOM	3353	C1A	HEM	543	3.809	25.308	56.974	1.00	20.00	C
ATOM	3354	CHA	HEM	543	4.318	24.399	57.898	1.00	20.00	C
ATOM	3355	C4D	HEM	543	4.765	23.108	57.612	1.00	20.00	C
ATOM	3356	C1B	HEM	543	2.912	25.495	52.818	1.00	20.00	C
ATOM	3357	CHB	HEM	543	2.605	26.366	53.859	1.00	20.00	C

ATOM	3358	C4A	HEM	543	3.021	26.195	55.164	1.00	20.00	C
ATOM	3359	C1C	HEM	543	4.380	21.461	52.353	1.00	20.00	C
ATOM	3360	CHC	HEM	543	3.836	22.390	51.460	1.00	20.00	C
ATOM	3361	C4B	HEM	543	3.465	23.686	51.730	1.00	20.00	C
ATOM	3362	C1D	HEM	543	5.140	21.223	56.534	1.00	20.00	C
ATOM	3363	CHD	HEM	543	5.214	20.255	55.551	1.00	20.00	C
ATOM	3364	C4C	HEM	543	5.006	20.482	54.221	1.00	20.00	C
ATOM	3365	C2A	HEM	543	3.199	26.563	57.287	1.00	20.00	C
ATOM	3366	CAA	HEM	543	3.065	27.149	58.675	1.00	20.00	C
ATOM	3367	C3A	HEM	543	2.706	27.143	56.207	1.00	20.00	C
ATOM	3368	CMA	HEM	543	1.968	28.493	56.078	1.00	20.00	C
ATOM	3369	CBA	HEM	543	4.277	27.937	59.116	1.00	20.00	C
ATOM	3370	CGA	HEM	543	4.017	28.673	60.414	1.00	20.00	C
ATOM	3371	01A	HEM	543	3.952	28.025	61.477	1.00	20.00	O
ATOM	3372	02A	HEM	543	3.844	29.903	60.363	1.00	20.00	O
ATOM	3373	C2B	HEM	543	2.494	25.729	51.446	1.00	20.00	C
ATOM	3374	CMB	HEM	543	1.873	27.043	50.947	1.00	20.00	C
ATOM	3375	C3B	HEM	543	2.848	24.586	50.762	1.00	20.00	C
ATOM	3376	CAB	HEM	543	2.735	24.290	49.387	1.00	20.00	C
ATOM	3377	CBB	HEM	543	1.742	24.811	48.507	1.00	20.00	C
ATOM	3378	C2C	HEM	543	4.559	20.044	52.049	1.00	20.00	C
ATOM	3379	CMC	HEM	543	4.526	19.423	50.624	1.00	20.00	C
ATOM	3380	C3C	HEM	543	4.936	19.424	53.247	1.00	20.00	C
ATOM	3381	CAC	HEM	543	5.281	18.076	53.486	1.00	20.00	C
ATOM	3382	CBC	HEM	543	4.694	16.849	52.926	1.00	20.00	C
ATOM	3383	C2D	HEM	543	5.349	20.948	57.974	1.00	20.00	C
ATOM	3384	CMD	HEM	543	5.819	19.656	58.655	1.00	20.00	C
ATOM	3385	C3D	HEM	543	5.099	22.109	58.612	1.00	20.00	C
ATOM	3386	CAD	HEM	543	5.134	22.261	60.125	1.00	20.00	C
ATOM	3387	CBD	HEM	543	3.763	21.901	60.693	1.00	20.00	C
ATOM	3388	CGD	HEM	543	3.708	22.024	62.202	1.00	20.00	C
ATOM	3389	01D	HEM	543	2.850	22.768	62.719	1.00	20.00	O
ATOM	3390	02D	HEM	543	4.521	21.362	62.869	1.00	20.00	O
ATOM	3391	CB	VAL	601	-1.651	-3.076	42.131	1.00	20.00	C
ATOM	3392	CG1	VAL	601	-0.602	-2.416	41.235	1.00	20.00	C
ATOM	3393	CG2	VAL	601	-3.058	-2.881	41.579	1.00	20.00	C
ATOM	3394	C	VAL	601	-2.179	-5.120	43.471	1.00	20.00	C
ATOM	3395	O	VAL	601	-3.084	-5.929	43.272	1.00	20.00	O
ATOM	3396	N	VAL	601	-1.564	-5.385	41.058	1.00	20.00	N
ATOM	3397	CA	VAL	601	-1.339	-4.592	42.312	1.00	20.00	C
ATOM	3398	N	HIS	602	-1.902	-4.635	44.677	1.00	20.00	N
ATOM	3399	CA	HIS	602	-2.638	-5.094	45.849	1.00	20.00	C
ATOM	3400	CB	HIS	602	-1.661	-5.671	46.887	1.00	20.00	C
ATOM	3401	CG	HIS	602	-2.293	-5.960	48.217	1.00	20.00	C
ATOM	3402	CD2	HIS	602	-3.030	-7.015	48.646	1.00	20.00	C
ATOM	3403	ND1	HIS	602	-2.237	-5.076	49.275	1.00	20.00	N
ATOM	3404	CE1	HIS	602	-2.914	-5.569	50.296	1.00	20.00	C
ATOM	3405	NE2	HIS	602	-3.406	-6.745	49.941	1.00	20.00	N
ATOM	3406	C	HIS	602	-3.552	-4.039	46.488	1.00	20.00	C
ATOM	3407	O	HIS	602	-3.076	-3.060	47.076	1.00	20.00	O
ATOM	3408	N	LEU	603	-4.860	-4.276	46.404	1.00	20.00	N
ATOM	3409	CA	LEU	603	-5.860	-3.382	46.979	1.00	20.00	C
ATOM	3410	CB	LEU	603	-6.865	-2.923	45.914	1.00	20.00	C
ATOM	3411	CG	LEU	603	-6.408	-2.255	44.619	1.00	20.00	C
ATOM	3412	CD1	LEU	603	-7.633	-1.798	43.843	1.00	20.00	C
ATOM	3413	CD2	LEU	603	-5.517	-1.082	44.925	1.00	20.00	C
ATOM	3414	C	LEU	603	-6.624	-4.150	48.053	1.00	20.00	C

ATOM	3415	O	LEU	603	-6.820	-5.364	47.940	1.00	20.00	O
ATOM	3416	N	THR	604	-7.046	-3.449	49.099	1.00	20.00	N
ATOM	3417	CA	THR	604	-7.807	-4.079	50.170	1.00	20.00	C
ATOM	3418	CB	THR	604	-7.798	-3.203	51.471	1.00	20.00	C
ATOM	3419	OG1	THR	604	-8.486	-1.964	51.244	1.00	20.00	O
ATOM	3420	CG2	THR	604	-6.371	-2.917	51.920	1.00	20.00	C
ATOM	3421	C	THR	604	-9.249	-4.265	49.672	1.00	20.00	C
ATOM	3422	O	THR	604	-9.640	-3.666	48.668	1.00	20.00	O
ATOM	3423	N	PRO	605	-10.059	-5.093	50.366	1.00	20.00	N
ATOM	3424	CD	PRO	605	-9.713	-5.945	51.522	1.00	20.00	C
ATOM	3425	CA	PRO	605	-11.452	-5.322	49.961	1.00	20.00	C
ATOM	3426	CB	PRO	605	-12.011	-6.150	51.125	1.00	20.00	C
ATOM	3427	CG	PRO	605	-10.844	-6.960	51.534	1.00	20.00	C
ATOM	3428	C	PRO	605	-12.248	-4.027	49.769	1.00	20.00	C
ATOM	3429	O	PRO	605	-13.038	-3.919	48.833	1.00	20.00	O
ATOM	3430	N	GLU	606	-12.039	-3.050	50.652	1.00	20.00	N
ATOM	3431	CA	GLU	606	-12.752	-1.773	50.550	1.00	20.00	C
ATOM	3432	CB	GLU	606	-12.685	-0.974	51.872	1.00	20.00	C
ATOM	3433	CG	GLU	606	-11.305	-0.428	52.252	1.00	20.00	C
ATOM	3434	CD	GLU	606	-11.381	0.816	53.146	1.00	20.00	C
ATOM	3435	OE1	GLU	606	-11.297	1.956	52.611	1.00	20.00	O
ATOM	3436	OE2	GLU	606	-11.522	0.649	54.383	1.00	20.00	O
ATOM	3437	C	GLU	606	-12.262	-0.925	49.357	1.00	20.00	C
ATOM	3438	O	GLU	606	-13.059	-0.270	48.681	1.00	20.00	O
ATOM	3439	N	GLU	607	-10.961	-0.956	49.090	1.00	20.00	N
ATOM	3440	CA	GLU	607	-10.415	-0.203	47.974	1.00	20.00	C
ATOM	3441	CB	GLU	607	-8.892	-0.179	48.033	1.00	20.00	C
ATOM	3442	CG	GLU	607	-8.351	0.520	49.260	1.00	20.00	C
ATOM	3443	CD	GLU	607	-6.846	0.606	49.264	1.00	20.00	C
ATOM	3444	OE1	GLU	607	-6.342	1.723	49.486	1.00	20.00	O
ATOM	3445	OE2	GLU	607	-6.167	-0.422	49.047	1.00	20.00	O
ATOM	3446	C	GLU	607	-10.879	-0.811	46.649	1.00	20.00	C
ATOM	3447	O	GLU	607	-11.166	-0.085	45.695	1.00	20.00	O
ATOM	3448	N	LYS	608	-10.948	-2.139	46.588	1.00	20.00	N
ATOM	3449	CA	LYS	608	-11.377	-2.811	45.374	1.00	20.00	C
ATOM	3450	CB	LYS	608	-11.173	-4.321	45.488	1.00	20.00	C
ATOM	3451	CG	LYS	608	-11.667	-5.093	44.289	1.00	20.00	C
ATOM	3452	CD	LYS	608	-11.993	-6.534	44.679	1.00	20.00	C
ATOM	3453	CE	LYS	608	-12.843	-7.251	43.619	1.00	20.00	C
ATOM	3454	NZ	LYS	608	-12.124	-7.423	42.315	1.00	20.00	N
ATOM	3455	C	LYS	608	-12.842	-2.489	45.089	1.00	20.00	C
ATOM	3456	O	LYS	608	-13.187	-2.111	43.974	1.00	20.00	O
ATOM	3457	N	SER	609	-13.703	-2.582	46.097	1.00	20.00	N
ATOM	3458	CA	SER	609	-15.112	-2.295	45.858	1.00	20.00	C
ATOM	3459	CB	SER	609	-16.013	-2.834	46.981	1.00	20.00	C
ATOM	3460	OG	SER	609	-15.812	-2.141	48.191	1.00	20.00	O
ATOM	3461	C	SER	609	-15.346	-0.811	45.600	1.00	20.00	C
ATOM	3462	O	SER	609	-16.258	-0.451	44.851	1.00	20.00	O
ATOM	3463	N	ALA	610	-14.507	0.046	46.182	1.00	20.00	N
ATOM	3464	CA	ALA	610	-14.626	1.490	45.971	1.00	20.00	C
ATOM	3465	CB	ALA	610	-13.644	2.247	46.862	1.00	20.00	C
ATOM	3466	C	ALA	610	-14.342	1.808	44.496	1.00	20.00	C
ATOM	3467	O	ALA	610	-15.083	2.556	43.856	1.00	20.00	O
ATOM	3468	N	VAL	611	-13.279	1.211	43.961	1.00	20.00	N
ATOM	3469	CA	VAL	611	-12.886	1.408	42.574	1.00	20.00	C
ATOM	3470	CB	VAL	611	-11.493	0.775	42.312	1.00	20.00	C
ATOM	3471	CG1	VAL	611	-11.233	0.602	40.833	1.00	20.00	C

ATOM	3472	CG2	VAL	611	-10.424	1.658	42.910	1.00	20.00	C
ATOM	3473	C	VAL	611	-13.954	0.855	41.627	1.00	20.00	C
ATOM	3474	O	VAL	611	-14.453	1.581	40.773	1.00	20.00	O
ATOM	3475	N	THR	612	-14.366	-0.388	41.861	1.00	20.00	N
ATOM	3476	CA	THR	612	-15.376	-1.081	41.062	1.00	20.00	C
ATOM	3477	CB	THR	612	-15.626	-2.503	41.624	1.00	20.00	C
ATOM	3478	OG1	THR	612	-14.490	-3.327	41.337	1.00	20.00	O
ATOM	3479	CG2	THR	612	-16.886	-3.130	41.028	1.00	20.00	C
ATOM	3480	C	THR	612	-16.720	-0.366	40.976	1.00	20.00	C
ATOM	3481	O	THR	612	-17.297	-0.235	39.891	1.00	20.00	O
ATOM	3482	N	ALA	613	-17.231	0.073	42.117	1.00	20.00	N
ATOM	3483	CA	ALA	613	-18.523	0.738	42.149	1.00	20.00	C
ATOM	3484	CB	ALA	613	-18.992	0.899	43.567	1.00	20.00	C
ATOM	3485	C	ALA	613	-18.518	2.077	41.444	1.00	20.00	C
ATOM	3486	O	ALA	613	-19.481	2.423	40.757	1.00	20.00	O
ATOM	3487	N	LEU	614	-17.447	2.843	41.621	1.00	20.00	N
ATOM	3488	CA	LEU	614	-17.348	4.153	40.985	1.00	20.00	C
ATOM	3489	CB	LEU	614	-16.123	4.921	41.522	1.00	20.00	C
ATOM	3490	CG	LEU	614	-15.995	6.448	41.411	1.00	20.00	C
ATOM	3491	CD1	LEU	614	-15.233	6.868	40.184	1.00	20.00	C
ATOM	3492	CD2	LEU	614	-17.359	7.109	41.470	1.00	20.00	C
ATOM	3493	C	LEU	614	-17.260	3.947	39.468	1.00	20.00	C
ATOM	3494	O	LEU	614	-17.942	4.633	38.704	1.00	20.00	O
ATOM	3495	N	TRP	615	-16.509	2.934	39.041	1.00	20.00	N
ATOM	3496	CA	TRP	615	-16.341	2.676	37.618	1.00	20.00	C
ATOM	3497	CB	TRP	615	-15.228	1.667	37.369	1.00	20.00	C
ATOM	3498	CG	TRP	615	-14.689	1.781	35.976	1.00	20.00	C
ATOM	3499	CD2	TRP	615	-13.831	2.816	35.469	1.00	20.00	C
ATOM	3500	CE2	TRP	615	-13.569	2.509	34.109	1.00	20.00	C
ATOM	3501	CE3	TRP	615	-13.277	3.983	36.017	1.00	20.00	C
ATOM	3502	CD1	TRP	615	-14.898	0.911	34.941	1.00	20.00	C
ATOM	3503	NE1	TRP	615	-14.222	1.340	33.820	1.00	20.00	N
ATOM	3504	CZ2	TRP	615	-12.745	3.308	33.304	1.00	20.00	C
ATOM	3505	CZ3	TRP	615	-12.457	4.780	35.217	1.00	20.00	C
ATOM	3506	CH2	TRP	615	-12.213	4.441	33.867	1.00	20.00	C
ATOM	3507	C	TRP	615	-17.626	2.269	36.890	1.00	20.00	C
ATOM	3508	O	TRP	615	-17.779	2.547	35.706	1.00	20.00	O
ATOM	3509	N	GLY	616	-18.552	1.632	37.590	1.00	20.00	N
ATOM	3510	CA	GLY	616	-19.802	1.274	36.955	1.00	20.00	C
ATOM	3511	C	GLY	616	-20.596	2.504	36.515	1.00	20.00	C
ATOM	3512	O	GLY	616	-21.490	2.388	35.685	1.00	20.00	O
ATOM	3513	N	LYS	617	-20.301	3.676	37.085	1.00	20.00	N
ATOM	3514	CA	LYS	617	-21.004	4.924	36.736	1.00	20.00	C
ATOM	3515	CB	LYS	617	-21.182	5.812	37.983	1.00	20.00	C
ATOM	3516	CG	LYS	617	-21.786	5.124	39.200	1.00	20.00	C
ATOM	3517	CD	LYS	617	-21.794	6.039	40.424	1.00	20.00	C
ATOM	3518	CE	LYS	617	-22.694	7.263	40.209	1.00	20.00	C
ATOM	3519	NZ	LYS	617	-22.989	8.002	41.477	1.00	20.00	N
ATOM	3520	C	LYS	617	-20.264	5.752	35.665	1.00	20.00	C
ATOM	3521	O	LYS	617	-20.761	6.775	35.199	1.00	20.00	O
ATOM	3522	N	VAL	618	-19.055	5.342	35.300	1.00	20.00	N
ATOM	3523	CA	VAL	618	-18.281	6.088	34.324	1.00	20.00	C
ATOM	3524	CB	VAL	618	-16.763	5.808	34.495	1.00	20.00	C
ATOM	3525	CG1	VAL	618	-15.981	6.293	33.291	1.00	20.00	C
ATOM	3526	CG2	VAL	618	-16.239	6.482	35.755	1.00	20.00	C
ATOM	3527	C	VAL	618	-18.683	5.807	32.881	1.00	20.00	C
ATOM	3528	O	VAL	618	-18.728	4.657	32.452	1.00	20.00	O

ATOM	3529	N	ASN	619	-18.987	6.866	32.135	1.00	20.00	N
ATOM	3530	CA	ASN	619	-19.308	6.728	30.717	1.00	20.00	C
ATOM	3531	CB	ASN	619	-20.173	7.897	30.243	1.00	20.00	C
ATOM	3532	CG	ASN	619	-20.445	7.853	28.744	1.00	20.00	C
ATOM	3533	OD1	ASN	619	-19.582	7.478	27.946	1.00	20.00	O
ATOM	3534	ND2	ASN	619	-21.644	8.251	28.354	1.00	20.00	N
ATOM	3535	C	ASN	619	-17.914	6.803	30.086	1.00	20.00	C
ATOM	3536	O	ASN	619	-17.328	7.888	30.017	1.00	20.00	O
ATOM	3537	N	VAL	620	-17.361	5.653	29.696	1.00	20.00	N
ATOM	3538	CA	VAL	620	-16.004	5.592	29.123	1.00	20.00	C
ATOM	3539	CB	VAL	620	-15.589	4.134	28.800	1.00	20.00	C
ATOM	3540	CG1	VAL	620	-14.287	4.091	28.024	1.00	20.00	C
ATOM	3541	CG2	VAL	620	-15.410	3.370	30.089	1.00	20.00	C
ATOM	3542	C	VAL	620	-15.712	6.519	27.941	1.00	20.00	C
ATOM	3543	O	VAL	620	-14.628	7.102	27.866	1.00	20.00	O
ATOM	3544	N	ASP	621	-16.682	6.684	27.045	1.00	20.00	N
ATOM	3545	CA	ASP	621	-16.514	7.556	25.885	1.00	20.00	C
ATOM	3546	CB	ASP	621	-17.762	7.517	24.986	1.00	20.00	C
ATOM	3547	CG	ASP	621	-17.894	6.209	24.202	1.00	20.00	C
ATOM	3548	OD1	ASP	621	-17.176	5.224	24.509	1.00	20.00	O
ATOM	3549	OD2	ASP	621	-18.727	6.171	23.269	1.00	20.00	O
ATOM	3550	C	ASP	621	-16.261	8.990	26.327	1.00	20.00	C
ATOM	3551	O	ASP	621	-15.238	9.591	25.990	1.00	20.00	O
ATOM	3552	N	GLU	622	-17.187	9.508	27.119	1.00	20.00	N
ATOM	3553	CA	GLU	622	-17.128	10.862	27.632	1.00	20.00	C
ATOM	3554	CB	GLU	622	-18.419	11.104	28.371	1.00	20.00	C
ATOM	3555	CG	GLU	622	-18.571	12.430	29.047	1.00	20.00	C
ATOM	3556	CD	GLU	622	-19.997	12.573	29.486	1.00	20.00	C
ATOM	3557	OE1	GLU	622	-20.275	12.764	30.698	1.00	20.00	O
ATOM	3558	OE2	GLU	622	-20.841	12.403	28.576	1.00	20.00	O
ATOM	3559	C	GLU	622	-15.920	11.176	28.538	1.00	20.00	C
ATOM	3560	O	GLU	622	-15.232	12.186	28.365	1.00	20.00	O
ATOM	3561	N	VAL	623	-15.673	10.319	29.518	1.00	20.00	N
ATOM	3562	CA	VAL	623	-14.557	10.510	30.431	1.00	20.00	C
ATOM	3563	CB	VAL	623	-14.659	9.521	31.613	1.00	20.00	C
ATOM	3564	CG1	VAL	623	-13.376	9.500	32.423	1.00	20.00	C
ATOM	3565	CG2	VAL	623	-15.852	9.911	32.489	1.00	20.00	C
ATOM	3566	C	VAL	623	-13.218	10.372	29.704	1.00	20.00	C
ATOM	3567	O	VAL	623	-12.278	11.127	29.982	1.00	20.00	O
ATOM	3568	N	GLY	624	-13.143	9.441	28.754	1.00	20.00	N
ATOM	3569	CA	GLY	624	-11.913	9.240	27.996	1.00	20.00	C
ATOM	3570	C	GLY	624	-11.521	10.475	27.199	1.00	20.00	C
ATOM	3571	O	GLY	624	-10.354	10.873	27.181	1.00	20.00	O
ATOM	3572	N	GLY	625	-12.498	11.075	26.525	1.00	20.00	N
ATOM	3573	CA	GLY	625	-12.247	12.280	25.755	1.00	20.00	C
ATOM	3574	C	GLY	625	-11.816	13.403	26.675	1.00	20.00	C
ATOM	3575	O	GLY	625	-10.898	14.150	26.354	1.00	20.00	O
ATOM	3576	N	GLU	626	-12.498	13.541	27.808	1.00	20.00	N
ATOM	3577	CA	GLU	626	-12.175	14.565	28.807	1.00	20.00	C
ATOM	3578	CB	GLU	626	-13.057	14.393	30.057	1.00	20.00	C
ATOM	3579	CG	GLU	626	-14.195	15.366	30.206	1.00	20.00	C
ATOM	3580	CD	GLU	626	-13.735	16.803	30.309	1.00	20.00	C
ATOM	3581	OE1	GLU	626	-14.216	17.630	29.512	1.00	20.00	O
ATOM	3582	OE2	GLU	626	-12.905	17.117	31.182	1.00	20.00	O
ATOM	3583	C	GLU	626	-10.714	14.456	29.256	1.00	20.00	C
ATOM	3584	O	GLU	626	-9.981	15.433	29.233	1.00	20.00	O
ATOM	3585	N	ALA	627	-10.331	13.261	29.706	1.00	20.00	N

ATOM	3586	CA	ALA	627	-8.988	12.987	30.199	1.00	20.00	C
ATOM	3587	CB	ALA	627	-8.904	11.579	30.757	1.00	20.00	C
ATOM	3588	C	ALA	627	-7.890	13.223	29.175	1.00	20.00	C
ATOM	3589	O	ALA	627	-6.895	13.882	29.477	1.00	20.00	O
ATOM	3590	N	LEU	628	-8.065	12.718	27.957	1.00	20.00	N
ATOM	3591	CA	LEU	628	-7.047	12.935	26.938	1.00	20.00	C
ATOM	3592	CB	LEU	628	-7.314	12.100	25.678	1.00	20.00	C
ATOM	3593	CG	LEU	628	-6.119	12.089	24.710	1.00	20.00	C
ATOM	3594	CD1	LEU	628	-4.907	11.450	25.389	1.00	20.00	C
ATOM	3595	CD2	LEU	628	-6.471	11.339	23.440	1.00	20.00	C
ATOM	3596	C	LEU	628	-6.971	14.421	26.571	1.00	20.00	C
ATOM	3597	O	LEU	628	-5.879	14.970	26.441	1.00	20.00	O
ATOM	3598	N	GLY	629	-8.127	15.071	26.438	1.00	20.00	N
ATOM	3599	CA	GLY	629	-8.153	16.477	26.080	1.00	20.00	C
ATOM	3600	C	GLY	629	-7.393	17.322	27.088	1.00	20.00	C
ATOM	3601	O	GLY	629	-6.543	18.138	26.716	1.00	20.00	O
ATOM	3602	N	ARG	630	-7.684	17.109	28.371	1.00	20.00	N
ATOM	3603	CA	ARG	630	-7.029	17.847	29.442	1.00	20.00	C
ATOM	3604	CB	ARG	630	-7.750	17.610	30.780	1.00	20.00	C
ATOM	3605	CG	ARG	630	-9.181	18.164	30.738	1.00	20.00	C
ATOM	3606	CD	ARG	630	-10.017	17.915	31.984	1.00	20.00	C
ATOM	3607	NE	ARG	630	-9.883	19.033	32.898	1.00	20.00	N
ATOM	3608	CZ	ARG	630	-10.861	19.840	33.294	1.00	20.00	C
ATOM	3609	NH1	ARG	630	-12.109	19.688	32.889	1.00	20.00	N
ATOM	3610	NH2	ARG	630	-10.553	20.855	34.072	1.00	20.00	N
ATOM	3611	C	ARG	630	-5.527	17.551	29.498	1.00	20.00	C
ATOM	3612	O	ARG	630	-4.735	18.460	29.710	1.00	20.00	O
ATOM	3613	N	LEU	631	-5.124	16.319	29.209	1.00	20.00	N
ATOM	3614	CA	LEU	631	-3.697	15.980	29.197	1.00	20.00	C
ATOM	3615	CB	LEU	631	-3.478	14.516	28.784	1.00	20.00	C
ATOM	3616	CG	LEU	631	-2.011	14.112	28.592	1.00	20.00	C
ATOM	3617	CD1	LEU	631	-1.278	14.098	29.954	1.00	20.00	C
ATOM	3618	CD2	LEU	631	-1.915	12.757	27.933	1.00	20.00	C
ATOM	3619	C	LEU	631	-2.969	16.882	28.193	1.00	20.00	C
ATOM	3620	O	LEU	631	-1.933	17.476	28.501	1.00	20.00	O
ATOM	3621	N	LEU	632	-3.551	17.003	27.005	1.00	20.00	N
ATOM	3622	CA	LEU	632	-2.989	17.803	25.919	1.00	20.00	C
ATOM	3623	CB	LEU	632	-3.727	17.491	24.615	1.00	20.00	C
ATOM	3624	CG	LEU	632	-3.198	16.374	23.707	1.00	20.00	C
ATOM	3625	CD1	LEU	632	-2.625	15.212	24.465	1.00	20.00	C
ATOM	3626	CD2	LEU	632	-4.336	15.898	22.820	1.00	20.00	C
ATOM	3627	C	LEU	632	-2.996	19.302	26.177	1.00	20.00	C
ATOM	3628	O	LEU	632	-2.143	20.026	25.644	1.00	20.00	O
ATOM	3629	N	VAL	633	-3.954	19.766	26.985	1.00	20.00	N
ATOM	3630	CA	VAL	633	-4.074	21.182	27.323	1.00	20.00	C
ATOM	3631	CB	VAL	633	-5.545	21.550	27.687	1.00	20.00	C
ATOM	3632	CG1	VAL	633	-5.619	22.969	28.236	1.00	20.00	C
ATOM	3633	CG2	VAL	633	-6.461	21.412	26.448	1.00	20.00	C
ATOM	3634	C	VAL	633	-3.167	21.572	28.497	1.00	20.00	C
ATOM	3635	O	VAL	633	-2.433	22.547	28.426	1.00	20.00	O
ATOM	3636	N	VAL	634	-3.226	20.794	29.575	1.00	20.00	N
ATOM	3637	CA	VAL	634	-2.456	21.074	30.786	1.00	20.00	C
ATOM	3638	CB	VAL	634	-3.102	20.338	32.002	1.00	20.00	C
ATOM	3639	CG1	VAL	634	-2.338	20.612	33.281	1.00	20.00	C
ATOM	3640	CG2	VAL	634	-4.573	20.787	32.154	1.00	20.00	C
ATOM	3641	C	VAL	634	-0.953	20.773	30.660	1.00	20.00	C
ATOM	3642	O	VAL	634	-0.116	21.461	31.247	1.00	20.00	O

ATOM	3643	N	TYR	635	-0.622	19.746	29.884	1.00	20.00	N
ATOM	3644	CA	TYR	635	0.762	19.337	29.640	1.00	20.00	C
ATOM	3645	CB	TYR	635	0.984	17.940	30.242	1.00	20.00	C
ATOM	3646	CG	TYR	635	0.690	17.920	31.725	1.00	20.00	C
ATOM	3647	CD1	TYR	635	1.439	18.713	32.611	1.00	20.00	C
ATOM	3648	CE1	TYR	635	1.107	18.807	33.958	1.00	20.00	C
ATOM	3649	CD2	TYR	635	-0.398	17.199	32.237	1.00	20.00	C
ATOM	3650	CE2	TYR	635	-0.744	17.285	33.597	1.00	20.00	C
ATOM	3651	CZ	TYR	635	0.016	18.093	34.452	1.00	20.00	C
ATOM	3652	OH	TYR	635	-0.305	18.201	35.794	1.00	20.00	O
ATOM	3653	C	TYR	635	0.939	19.329	28.109	1.00	20.00	C
ATOM	3654	O	TYR	635	1.024	18.263	27.488	1.00	20.00	O
ATOM	3655	N	PRO	636	1.078	20.523	27.502	1.00	20.00	N
ATOM	3656	CD	PRO	636	1.394	21.760	28.241	1.00	20.00	C
ATOM	3657	CA	PRO	636	1.232	20.739	26.053	1.00	20.00	C
ATOM	3658	CB	PRO	636	1.571	22.234	25.958	1.00	20.00	C
ATOM	3659	CG	PRO	636	1.039	22.823	27.243	1.00	20.00	C
ATOM	3660	C	PRO	636	2.270	19.885	25.315	1.00	20.00	C
ATOM	3661	O	PRO	636	2.054	19.503	24.159	1.00	20.00	O
ATOM	3662	N	TRP	637	3.395	19.596	25.961	1.00	20.00	N
ATOM	3663	CA	TRP	637	4.436	18.802	25.326	1.00	20.00	C
ATOM	3664	CB	TRP	637	5.710	18.748	26.196	1.00	20.00	C
ATOM	3665	CG	TRP	637	5.537	18.219	27.603	1.00	20.00	C
ATOM	3666	CD2	TRP	637	5.157	18.971	28.776	1.00	20.00	C
ATOM	3667	CE2	TRP	637	5.177	18.074	29.872	1.00	20.00	C
ATOM	3668	CE3	TRP	637	4.821	20.315	29.006	1.00	20.00	C
ATOM	3669	CD1	TRP	637	5.750	16.934	28.027	1.00	20.00	C
ATOM	3670	NE1	TRP	637	5.536	16.842	29.390	1.00	20.00	N
ATOM	3671	CZ2	TRP	637	4.854	18.478	31.179	1.00	20.00	C
ATOM	3672	CZ3	TRP	637	4.504	20.717	30.309	1.00	20.00	C
ATOM	3673	CH2	TRP	637	4.531	19.799	31.375	1.00	20.00	C
ATOM	3674	C	TRP	637	3.969	17.406	24.909	1.00	20.00	C
ATOM	3675	O	TRP	637	4.557	16.803	24.012	1.00	20.00	O
ATOM	3676	N	THR	638	2.874	16.922	25.504	1.00	20.00	N
ATOM	3677	CA	THR	638	2.341	15.598	25.162	1.00	20.00	C
ATOM	3678	CB	THR	638	1.283	15.110	26.193	1.00	20.00	C
ATOM	3679	OG1	THR	638	0.211	16.056	26.259	1.00	20.00	O
ATOM	3680	CG2	THR	638	1.901	14.944	27.581	1.00	20.00	C
ATOM	3681	C	THR	638	1.710	15.593	23.747	1.00	20.00	C
ATOM	3682	O	THR	638	1.415	14.524	23.184	1.00	20.00	O
ATOM	3683	N	GLN	639	1.513	16.782	23.171	1.00	20.00	N
ATOM	3684	CA	GLN	639	0.933	16.889	21.829	1.00	20.00	C
ATOM	3685	CB	GLN	639	0.548	18.331	21.525	1.00	20.00	C
ATOM	3686	CG	GLN	639	-0.556	18.880	22.426	1.00	20.00	C
ATOM	3687	CD	GLN	639	-0.740	20.371	22.241	1.00	20.00	C
ATOM	3688	OE1	GLN	639	-0.210	20.954	21.295	1.00	20.00	O
ATOM	3689	NE2	GLN	639	-1.464	21.004	23.158	1.00	20.00	N
ATOM	3690	C	GLN	639	1.908	16.380	20.769	1.00	20.00	C
ATOM	3691	O	GLN	639	1.521	16.134	19.629	1.00	20.00	O
ATOM	3692	N	ARG	640	3.160	16.163	21.158	1.00	20.00	N
ATOM	3693	CA	ARG	640	4.177	15.668	20.237	1.00	20.00	C
ATOM	3694	CB	ARG	640	5.516	15.521	20.963	1.00	20.00	C
ATOM	3695	CG	ARG	640	5.610	14.307	21.884	1.00	20.00	C
ATOM	3696	CD	ARG	640	6.834	14.356	22.805	1.00	20.00	C
ATOM	3697	NE	ARG	640	8.089	14.576	22.082	1.00	20.00	N
ATOM	3698	CZ	ARG	640	8.833	13.616	21.530	1.00	20.00	C
ATOM	3699	NH1	ARG	640	8.468	12.341	21.613	1.00	20.00	N

ATOM	3700	NH2	ARG	640	9.935	13.936	20.857	1.00	20.00	N
ATOM	3701	C	ARG	640	3.797	14.334	19.578	1.00	20.00	C
ATOM	3702	O	ARG	640	4.294	14.018	18.501	1.00	20.00	O
ATOM	3703	N	PHE	641	2.938	13.544	20.224	1.00	20.00	N
ATOM	3704	CA	PHE	641	2.537	12.250	19.665	1.00	20.00	C
ATOM	3705	CB	PHE	641	2.322	11.214	20.770	1.00	20.00	C
ATOM	3706	CG	PHE	641	3.494	11.060	21.693	1.00	20.00	C
ATOM	3707	CD1	PHE	641	3.492	11.663	22.950	1.00	20.00	C
ATOM	3708	CD2	PHE	641	4.615	10.335	21.298	1.00	20.00	C
ATOM	3709	CE1	PHE	641	4.590	11.544	23.790	1.00	20.00	C
ATOM	3710	CE2	PHE	641	5.721	10.211	22.133	1.00	20.00	C
ATOM	3711	CZ	PHE	641	5.710	10.816	23.378	1.00	20.00	C
ATOM	3712	C	PHE	641	1.256	12.333	18.855	1.00	20.00	C
ATOM	3713	O	PHE	641	0.770	11.320	18.370	1.00	20.00	O
ATOM	3714	N	PHE	642	0.746	13.535	18.630	1.00	20.00	N
ATOM	3715	CA	PHE	642	-0.513	13.651	17.924	1.00	20.00	C
ATOM	3716	CB	PHE	642	-1.628	13.892	18.939	1.00	20.00	C
ATOM	3717	CG	PHE	642	-1.711	12.837	20.024	1.00	20.00	C
ATOM	3718	CD1	PHE	642	-1.267	13.115	21.320	1.00	20.00	C
ATOM	3719	CD2	PHE	642	-2.236	11.574	19.753	1.00	20.00	C
ATOM	3720	CE1	PHE	642	-1.338	12.147	22.323	1.00	20.00	C
ATOM	3721	CE2	PHE	642	-2.310	10.605	20.751	1.00	20.00	C
ATOM	3722	CZ	PHE	642	-1.861	10.894	22.040	1.00	20.00	C
ATOM	3723	C	PHE	642	-0.529	14.743	16.863	1.00	20.00	C
ATOM	3724	O	PHE	642	-1.517	15.468	16.723	1.00	20.00	O
ATOM	3725	N	GLU	643	0.549	14.828	16.089	1.00	20.00	N
ATOM	3726	CA	GLU	643	0.677	15.822	15.017	1.00	20.00	C
ATOM	3727	CB	GLU	643	2.058	15.720	14.365	1.00	20.00	C
ATOM	3728	CG	GLU	643	3.211	16.113	15.272	1.00	20.00	C
ATOM	3729	CD	GLU	643	3.336	17.606	15.467	1.00	20.00	C
ATOM	3730	OE1	GLU	643	2.623	18.381	14.797	1.00	20.00	O
ATOM	3731	OE2	GLU	643	4.176	18.018	16.284	1.00	20.00	O
ATOM	3732	C	GLU	643	-0.390	15.647	13.933	1.00	20.00	C
ATOM	3733	O	GLU	643	-0.788	16.612	13.288	1.00	20.00	O
ATOM	3734	N	SER	644	-0.845	14.418	13.724	1.00	20.00	N
ATOM	3735	CA	SER	644	-1.851	14.156	12.708	1.00	20.00	C
ATOM	3736	CB	SER	644	-1.678	12.740	12.174	1.00	20.00	C
ATOM	3737	OG	SER	644	-2.024	11.793	13.177	1.00	20.00	O
ATOM	3738	C	SER	644	-3.286	14.316	13.200	1.00	20.00	C
ATOM	3739	O	SER	644	-4.218	14.030	12.457	1.00	20.00	O
ATOM	3740	N	PHE	645	-3.479	14.740	14.446	1.00	20.00	N
ATOM	3741	CA	PHE	645	-4.835	14.876	14.988	1.00	20.00	C
ATOM	3742	CB	PHE	645	-4.837	14.706	16.508	1.00	20.00	C
ATOM	3743	CG	PHE	645	-4.886	13.285	16.953	1.00	20.00	C
ATOM	3744	CD1	PHE	645	-5.477	12.948	18.162	1.00	20.00	C
ATOM	3745	CD2	PHE	645	-4.353	12.276	16.170	1.00	20.00	C
ATOM	3746	CE1	PHE	645	-5.533	11.622	18.581	1.00	20.00	C
ATOM	3747	CE2	PHE	645	-4.407	10.943	16.586	1.00	20.00	C
ATOM	3748	CZ	PHE	645	-4.996	10.618	17.788	1.00	20.00	C
ATOM	3749	C	PHE	645	-5.579	16.147	14.615	1.00	20.00	C
ATOM	3750	O	PHE	645	-6.772	16.275	14.884	1.00	20.00	O
ATOM	3751	N	GLY	646	-4.887	17.107	14.030	1.00	20.00	N
ATOM	3752	CA	GLY	646	-5.577	18.319	13.660	1.00	20.00	C
ATOM	3753	C	GLY	646	-5.248	19.505	14.532	1.00	20.00	C
ATOM	3754	O	GLY	646	-4.161	19.605	15.099	1.00	20.00	O
ATOM	3755	N	ASP	647	-6.207	20.414	14.617	1.00	20.00	N
ATOM	3756	CA	ASP	647	-6.077	21.644	15.383	1.00	20.00	C

ATOM	3757	CB	ASP	647	-7.232	22.578	15.000	1.00	20.00	C
ATOM	3758	CG	ASP	647	-7.107	23.964	15.608	1.00	20.00	C
ATOM	3759	OD1	ASP	647	-8.166	24.598	15.798	1.00	20.00	O
ATOM	3760	OD2	ASP	647	-5.971	24.427	15.881	1.00	20.00	O
ATOM	3761	C	ASP	647	-6.064	21.385	16.895	1.00	20.00	C
ATOM	3762	O	ASP	647	-7.043	20.872	17.445	1.00	20.00	O
ATOM	3763	N	LEU	648	-4.948	21.730	17.541	1.00	20.00	N
ATOM	3764	CA	LEU	648	-4.773	21.568	18.992	1.00	20.00	C
ATOM	3765	CB	LEU	648	-3.823	20.406	19.292	1.00	20.00	C
ATOM	3766	CG	LEU	648	-4.201	19.030	18.743	1.00	20.00	C
ATOM	3767	CD1	LEU	648	-3.065	18.053	19.003	1.00	20.00	C
ATOM	3768	CD2	LEU	648	-5.502	18.550	19.374	1.00	20.00	C
ATOM	3769	C	LEU	648	-4.179	22.835	19.607	1.00	20.00	C
ATOM	3770	O	LEU	648	-3.576	22.782	20.680	1.00	20.00	O
ATOM	3771	N	SER	649	-4.379	23.969	18.940	1.00	20.00	N
ATOM	3772	CA	SER	649	-3.833	25.254	19.380	1.00	20.00	C
ATOM	3773	CB	SER	649	-3.888	26.249	18.224	1.00	20.00	C
ATOM	3774	OG	SER	649	-5.223	26.398	17.757	1.00	20.00	O
ATOM	3775	C	SER	649	-4.461	25.883	20.624	1.00	20.00	C
ATOM	3776	O	SER	649	-3.783	26.559	21.398	1.00	20.00	O
ATOM	3777	N	THR	650	-5.765	25.713	20.789	1.00	20.00	N
ATOM	3778	CA	THR	650	-6.448	26.280	21.944	1.00	20.00	C
ATOM	3779	CB	THR	650	-7.467	27.360	21.507	1.00	20.00	C
ATOM	3780	OG1	THR	650	-8.558	26.748	20.794	1.00	20.00	O
ATOM	3781	CG2	THR	650	-6.796	28.394	20.628	1.00	20.00	C
ATOM	3782	C	THR	650	-7.198	25.186	22.701	1.00	20.00	C
ATOM	3783	O	THR	650	-7.420	24.100	22.169	1.00	20.00	O
ATOM	3784	N	PRO	651	-7.575	25.453	23.965	1.00	20.00	N
ATOM	3785	CD	PRO	651	-7.132	26.590	24.795	1.00	20.00	C
ATOM	3786	CA	PRO	651	-8.306	24.480	24.776	1.00	20.00	C
ATOM	3787	CB	PRO	651	-8.561	25.255	26.070	1.00	20.00	C
ATOM	3788	CG	PRO	651	-7.317	26.063	26.200	1.00	20.00	C
ATOM	3789	C	PRO	651	-9.613	24.059	24.106	1.00	20.00	C
ATOM	3790	O	PRO	651	-9.994	22.895	24.150	1.00	20.00	O
ATOM	3791	N	ASP	652	-10.314	25.009	23.498	1.00	20.00	N
ATOM	3792	CA	ASP	652	-11.564	24.683	22.820	1.00	20.00	C
ATOM	3793	CB	ASP	652	-12.325	25.950	22.451	1.00	20.00	C
ATOM	3794	CG	ASP	652	-12.875	26.660	23.673	1.00	20.00	C
ATOM	3795	OD1	ASP	652	-13.951	26.260	24.170	1.00	20.00	O
ATOM	3796	OD2	ASP	652	-12.217	27.602	24.154	1.00	20.00	O
ATOM	3797	C	ASP	652	-11.315	23.811	21.596	1.00	20.00	C
ATOM	3798	O	ASP	652	-12.099	22.904	21.313	1.00	20.00	O
ATOM	3799	N	ALA	653	-10.209	24.065	20.898	1.00	20.00	N
ATOM	3800	CA	ALA	653	-9.843	23.275	19.728	1.00	20.00	C
ATOM	3801	CB	ALA	653	-8.580	23.836	19.076	1.00	20.00	C
ATOM	3802	C	ALA	653	-9.595	21.844	20.177	1.00	20.00	C
ATOM	3803	O	ALA	653	-10.215	20.909	19.676	1.00	20.00	O
ATOM	3804	N	VAL	654	-8.703	21.678	21.149	1.00	20.00	N
ATOM	3805	CA	VAL	654	-8.374	20.356	21.680	1.00	20.00	C
ATOM	3806	CB	VAL	654	-7.363	20.447	22.858	1.00	20.00	C
ATOM	3807	CG1	VAL	654	-7.144	19.071	23.460	1.00	20.00	C
ATOM	3808	CG2	VAL	654	-6.038	21.028	22.383	1.00	20.00	C
ATOM	3809	C	VAL	654	-9.605	19.591	22.177	1.00	20.00	C
ATOM	3810	O	VAL	654	-9.825	18.439	21.781	1.00	20.00	O
ATOM	3811	N	MET	655	-10.409	20.236	23.023	1.00	20.00	N
ATOM	3812	CA	MET	655	-11.590	19.587	23.597	1.00	20.00	C
ATOM	3813	CB	MET	655	-12.217	20.433	24.722	1.00	20.00	C

ATOM	3814	CG	MET	655	-11.310	20.725	25.930	1.00	20.00	C
ATOM	3815	SD	MET	655	-10.355	19.339	26.649	1.00	20.00	S
ATOM	3816	CE	MET	655	-11.609	18.407	27.399	1.00	20.00	C
ATOM	3817	C	MET	655	-12.662	19.192	22.580	1.00	20.00	C
ATOM	3818	O	MET	655	-13.299	18.150	22.725	1.00	20.00	O
ATOM	3819	N	GLY	656	-12.868	20.018	21.560	1.00	20.00	N
ATOM	3820	CA	GLY	656	-13.876	19.701	20.561	1.00	20.00	C
ATOM	3821	C	GLY	656	-13.365	18.814	19.433	1.00	20.00	C
ATOM	3822	O	GLY	656	-14.134	18.360	18.584	1.00	20.00	O
ATOM	3823	N	ASN	657	-12.061	18.562	19.421	1.00	20.00	N
ATOM	3824	CA	ASN	657	-11.442	17.747	18.391	1.00	20.00	C
ATOM	3825	CB	ASN	657	-9.923	17.819	18.539	1.00	20.00	C
ATOM	3826	CG	ASN	657	-9.184	17.173	17.386	1.00	20.00	C
ATOM	3827	OD1	ASN	657	-9.431	16.014	17.031	1.00	20.00	O
ATOM	3828	ND2	ASN	657	-8.247	17.909	16.813	1.00	20.00	N
ATOM	3829	C	ASN	657	-11.929	16.298	18.418	1.00	20.00	C
ATOM	3830	O	ASN	657	-11.740	15.573	19.398	1.00	20.00	O
ATOM	3831	N	PRO	658	-12.553	15.848	17.316	1.00	20.00	N
ATOM	3832	CD	PRO	658	-12.849	16.629	16.099	1.00	20.00	C
ATOM	3833	CA	PRO	658	-13.078	14.482	17.199	1.00	20.00	C
ATOM	3834	CB	PRO	658	-13.803	14.505	15.846	1.00	20.00	C
ATOM	3835	CG	PRO	658	-13.044	15.549	15.070	1.00	20.00	C
ATOM	3836	C	PRO	658	-12.027	13.367	17.280	1.00	20.00	C
ATOM	3837	O	PRO	658	-12.312	12.284	17.811	1.00	20.00	O
ATOM	3838	N	LYS	659	-10.824	13.624	16.768	1.00	20.00	N
ATOM	3839	CA	LYS	659	-9.752	12.628	16.814	1.00	20.00	C
ATOM	3840	CB	LYS	659	-8.564	13.066	15.968	1.00	20.00	C
ATOM	3841	CG	LYS	659	-8.366	12.272	14.709	1.00	20.00	C
ATOM	3842	CD	LYS	659	-9.379	12.656	13.657	1.00	20.00	C
ATOM	3843	CE	LYS	659	-8.909	12.223	12.272	1.00	20.00	C
ATOM	3844	NZ	LYS	659	-7.606	12.864	11.908	1.00	20.00	N
ATOM	3845	C	LYS	659	-9.294	12.416	18.257	1.00	20.00	C
ATOM	3846	O	LYS	659	-8.884	11.309	18.621	1.00	20.00	O
ATOM	3847	N	VAL	660	-9.341	13.485	19.058	1.00	20.00	N
ATOM	3848	CA	VAL	660	-8.967	13.428	20.473	1.00	20.00	C
ATOM	3849	CB	VAL	660	-8.839	14.825	21.076	1.00	20.00	C
ATOM	3850	CG1	VAL	660	-8.680	14.733	22.592	1.00	20.00	C
ATOM	3851	CG2	VAL	660	-7.640	15.541	20.471	1.00	20.00	C
ATOM	3852	C	VAL	660	-10.003	12.616	21.252	1.00	20.00	C
ATOM	3853	O	VAL	660	-9.644	11.720	22.031	1.00	20.00	O
ATOM	3854	N	LYS	661	-11.287	12.900	21.011	1.00	20.00	N
ATOM	3855	CA	LYS	661	-12.371	12.163	21.665	1.00	20.00	C
ATOM	3856	CB	LYS	661	-13.746	12.723	21.291	1.00	20.00	C
ATOM	3857	CG	LYS	661	-13.915	14.183	21.605	1.00	20.00	C
ATOM	3858	CD	LYS	661	-15.352	14.622	21.404	1.00	20.00	C
ATOM	3859	CE	LYS	661	-15.470	16.129	21.513	1.00	20.00	C
ATOM	3860	NZ	LYS	661	-16.894	16.550	21.556	1.00	20.00	N
ATOM	3861	C	LYS	661	-12.307	10.698	21.250	1.00	20.00	C
ATOM	3862	O	LYS	661	-12.447	9.812	22.085	1.00	20.00	O
ATOM	3863	N	ALA	662	-12.070	10.447	19.961	1.00	20.00	N
ATOM	3864	CA	ALA	662	-11.976	9.077	19.456	1.00	20.00	C
ATOM	3865	CB	ALA	662	-11.773	9.080	17.940	1.00	20.00	C
ATOM	3866	C	ALA	662	-10.841	8.313	20.129	1.00	20.00	C
ATOM	3867	O	ALA	662	-11.024	7.182	20.579	1.00	20.00	O
ATOM	3868	N	HIS	663	-9.663	8.930	20.193	1.00	20.00	N
ATOM	3869	CA	HIS	663	-8.516	8.277	20.810	1.00	20.00	C
ATOM	3870	CB	HIS	663	-7.230	9.071	20.597	1.00	20.00	C

ATOM	3871	CG	HIS	663	-5.999	8.295	20.938	1.00	20.00	C
ATOM	3872	CD2	HIS	663	-5.003	8.534	21.821	1.00	20.00	C
ATOM	3873	ND1	HIS	663	-5.712	7.078	20.355	1.00	20.00	N
ATOM	3874	CE1	HIS	663	-4.592	6.600	20.869	1.00	20.00	C
ATOM	3875	NE2	HIS	663	-4.143	7.466	21.760	1.00	20.00	N
ATOM	3876	C	HIS	663	-8.743	8.103	22.297	1.00	20.00	C
ATOM	3877	O	HIS	663	-8.348	7.083	22.877	1.00	20.00	O
ATOM	3878	N	GLY	664	-9.322	9.132	22.912	1.00	20.00	N
ATOM	3879	CA	GLY	664	-9.617	9.091	24.325	1.00	20.00	C
ATOM	3880	C	GLY	664	-10.430	7.867	24.715	1.00	20.00	C
ATOM	3881	O	GLY	664	-10.053	7.166	25.658	1.00	20.00	O
ATOM	3882	N	LYS	665	-11.509	7.567	23.988	1.00	20.00	N
ATOM	3883	CA	LYS	665	-12.330	6.403	24.336	1.00	20.00	C
ATOM	3884	CB	LYS	665	-13.697	6.424	23.634	1.00	20.00	C
ATOM	3885	CG	LYS	665	-13.689	6.282	22.126	1.00	20.00	C
ATOM	3886	CD	LYS	665	-15.094	5.927	21.596	1.00	20.00	C
ATOM	3887	CE	LYS	665	-15.474	4.465	21.915	1.00	20.00	C
ATOM	3888	NZ	LYS	665	-16.879	4.103	21.526	1.00	20.00	N
ATOM	3889	C	LYS	665	-11.613	5.084	24.092	1.00	20.00	C
ATOM	3890	O	LYS	665	-11.864	4.093	24.775	1.00	20.00	O
ATOM	3891	N	LYS	666	-10.690	5.089	23.139	1.00	20.00	N
ATOM	3892	CA	LYS	666	-9.913	3.900	22.819	1.00	20.00	C
ATOM	3893	CB	LYS	666	-9.111	4.151	21.542	1.00	20.00	C
ATOM	3894	CG	LYS	666	-8.781	2.897	20.772	1.00	20.00	C
ATOM	3895	CD	LYS	666	-8.008	3.216	19.489	1.00	20.00	C
ATOM	3896	CE	LYS	666	-8.855	3.961	18.456	1.00	20.00	C
ATOM	3897	NZ	LYS	666	-8.052	4.247	17.242	1.00	20.00	N
ATOM	3898	C	LYS	666	-8.969	3.599	23.992	1.00	20.00	C
ATOM	3899	O	LYS	666	-8.862	2.468	24.466	1.00	20.00	O
ATOM	3900	N	VAL	667	-8.306	4.639	24.476	1.00	20.00	N
ATOM	3901	CA	VAL	667	-7.382	4.502	25.594	1.00	20.00	C
ATOM	3902	CB	VAL	667	-6.587	5.819	25.800	1.00	20.00	C
ATOM	3903	CG1	VAL	667	-5.925	5.832	27.163	1.00	20.00	C
ATOM	3904	CG2	VAL	667	-5.541	5.974	24.681	1.00	20.00	C
ATOM	3905	C	VAL	667	-8.108	4.091	26.886	1.00	20.00	C
ATOM	3906	O	VAL	667	-7.703	3.139	27.555	1.00	20.00	O
ATOM	3907	N	LEU	668	-9.199	4.777	27.219	1.00	20.00	N
ATOM	3908	CA	LEU	668	-9.929	4.447	28.439	1.00	20.00	C
ATOM	3909	CB	LEU	668	-10.969	5.509	28.798	1.00	20.00	C
ATOM	3910	CG	LEU	668	-10.685	6.401	30.015	1.00	20.00	C
ATOM	3911	CD1	LEU	668	-11.996	6.636	30.722	1.00	20.00	C
ATOM	3912	CD2	LEU	668	-9.723	5.772	30.995	1.00	20.00	C
ATOM	3913	C	LEU	668	-10.581	3.086	28.331	1.00	20.00	C
ATOM	3914	O	LEU	668	-10.758	2.393	29.339	1.00	20.00	O
ATOM	3915	N	GLY	669	-10.947	2.705	27.111	1.00	20.00	N
ATOM	3916	CA	GLY	669	-11.536	1.400	26.902	1.00	20.00	C
ATOM	3917	C	GLY	669	-10.532	0.330	27.293	1.00	20.00	C
ATOM	3918	O	GLY	669	-10.889	-0.623	27.982	1.00	20.00	O
ATOM	3919	N	ALA	670	-9.274	0.481	26.877	1.00	20.00	N
ATOM	3920	CA	ALA	670	-8.233	-0.499	27.216	1.00	20.00	C
ATOM	3921	CB	ALA	670	-6.967	-0.219	26.432	1.00	20.00	C
ATOM	3922	C	ALA	670	-7.965	-0.454	28.728	1.00	20.00	C
ATOM	3923	O	ALA	670	-7.796	-1.497	29.393	1.00	20.00	O
ATOM	3924	N	PHE	671	-7.983	0.761	29.270	1.00	20.00	N
ATOM	3925	CA	PHE	671	-7.797	0.983	30.701	1.00	20.00	C
ATOM	3926	CB	PHE	671	-7.902	2.488	31.002	1.00	20.00	C
ATOM	3927	CG	PHE	671	-7.768	2.835	32.469	1.00	20.00	C

ATOM	3928	CD1	PHE	671	-6.517	3.118	33.022	1.00	20.00	C
ATOM	3929	CD2	PHE	671	-8.897	2.872	33.298	1.00	20.00	C
ATOM	3930	CE1	PHE	671	-6.390	3.425	34.371	1.00	20.00	C
ATOM	3931	CE2	PHE	671	-8.785	3.178	34.655	1.00	20.00	C
ATOM	3932	CZ	PHE	671	-7.528	3.457	35.195	1.00	20.00	C
ATOM	3933	C	PHE	671	-8.898	0.212	31.449	1.00	20.00	C
ATOM	3934	O	PHE	671	-8.636	-0.494	32.420	1.00	20.00	O
ATOM	3935	N	SER	672	-10.114	0.306	30.933	1.00	20.00	N
ATOM	3936	CA	SER	672	-11.279	-0.342	31.516	1.00	20.00	C
ATOM	3937	CB	SER	672	-12.502	-0.021	30.659	1.00	20.00	C
ATOM	3938	OG	SER	672	-13.696	-0.329	31.336	1.00	20.00	O
ATOM	3939	C	SER	672	-11.089	-1.852	31.680	1.00	20.00	C
ATOM	3940	O	SER	672	-11.423	-2.410	32.732	1.00	20.00	O
ATOM	3941	N	ASP	673	-10.510	-2.506	30.670	1.00	20.00	N
ATOM	3942	CA	ASP	673	-10.258	-3.956	30.720	1.00	20.00	C
ATOM	3943	CB	ASP	673	-9.639	-4.455	29.413	1.00	20.00	C
ATOM	3944	CG	ASP	673	-10.520	-4.212	28.209	1.00	20.00	C
ATOM	3945	OD1	ASP	673	-11.624	-3.635	28.351	1.00	20.00	O
ATOM	3946	OD2	ASP	673	-10.088	-4.601	27.102	1.00	20.00	O
ATOM	3947	C	ASP	673	-9.292	-4.311	31.843	1.00	20.00	C
ATOM	3948	O	ASP	673	-9.375	-5.393	32.437	1.00	20.00	O
ATOM	3949	N	GLY	674	-8.336	-3.422	32.083	1.00	20.00	N
ATOM	3950	CA	GLY	674	-7.358	-3.646	33.130	1.00	20.00	C
ATOM	3951	C	GLY	674	-8.009	-3.747	34.493	1.00	20.00	C
ATOM	3952	O	GLY	674	-7.543	-4.488	35.347	1.00	20.00	O
ATOM	3953	N	LEU	675	-9.092	-3.008	34.697	1.00	20.00	N
ATOM	3954	CA	LEU	675	-9.806	-3.042	35.969	1.00	20.00	C
ATOM	3955	CB	LEU	675	-10.906	-1.984	35.991	1.00	20.00	C
ATOM	3956	CG	LEU	675	-10.531	-0.654	36.644	1.00	20.00	C
ATOM	3957	CD1	LEU	675	-9.093	-0.276	36.367	1.00	20.00	C
ATOM	3958	CD2	LEU	675	-11.459	0.411	36.146	1.00	20.00	C
ATOM	3959	C	LEU	675	-10.385	-4.431	36.253	1.00	20.00	C
ATOM	3960	O	LEU	675	-10.542	-4.818	37.413	1.00	20.00	O
ATOM	3961	N	ALA	676	-10.676	-5.182	35.195	1.00	20.00	N
ATOM	3962	CA	ALA	676	-11.209	-6.529	35.334	1.00	20.00	C
ATOM	3963	CB	ALA	676	-11.953	-6.923	34.077	1.00	20.00	C
ATOM	3964	C	ALA	676	-10.079	-7.518	35.624	1.00	20.00	C
ATOM	3965	O	ALA	676	-10.326	-8.682	35.921	1.00	20.00	O
ATOM	3966	N	HIS	677	-8.835	-7.052	35.544	1.00	20.00	N
ATOM	3967	CA	HIS	677	-7.676	-7.903	35.802	1.00	20.00	C
ATOM	3968	CB	HIS	677	-6.971	-8.278	34.497	1.00	20.00	C
ATOM	3969	CG	HIS	677	-7.838	-9.038	33.545	1.00	20.00	C
ATOM	3970	CD2	HIS	677	-8.106	-10.362	33.449	1.00	20.00	C
ATOM	3971	ND1	HIS	677	-8.588	-8.423	32.568	1.00	20.00	N
ATOM	3972	CE1	HIS	677	-9.284	-9.329	31.909	1.00	20.00	C
ATOM	3973	NE2	HIS	677	-9.011	-10.515	32.424	1.00	20.00	N
ATOM	3974	C	HIS	677	-6.683	-7.218	36.733	1.00	20.00	C
ATOM	3975	O	HIS	677	-5.468	-7.314	36.536	1.00	20.00	O
ATOM	3976	N	LEU	678	-7.203	-6.583	37.779	1.00	20.00	N
ATOM	3977	CA	LEU	678	-6.377	-5.885	38.752	1.00	20.00	C
ATOM	3978	CB	LEU	678	-7.269	-5.303	39.847	1.00	20.00	C
ATOM	3979	CG	LEU	678	-7.308	-3.789	40.042	1.00	20.00	C
ATOM	3980	CD1	LEU	678	-7.128	-3.076	38.733	1.00	20.00	C
ATOM	3981	CD2	LEU	678	-8.612	-3.393	40.709	1.00	20.00	C
ATOM	3982	C	LEU	678	-5.271	-6.760	39.355	1.00	20.00	C
ATOM	3983	O	LEU	678	-4.279	-6.236	39.851	1.00	20.00	O
ATOM	3984	N	ASP	679	-5.439	-8.081	39.315	1.00	20.00	N

ATOM	3985	CA	ASP	679	-4.429	-9.010	39.849	1.00	20.00		C
ATOM	3986	CB	ASP	679	-5.001	-10.412	40.094	1.00	20.00		C
ATOM	3987	CG	ASP	679	-5.664	-10.565	41.441	1.00	20.00		C
ATOM	3988	OD1	ASP	679	-6.444	-11.540	41.591	1.00	20.00		O
ATOM	3989	OD2	ASP	679	-5.385	-9.751	42.355	1.00	20.00		O
ATOM	3990	C	ASP	679	-3.262	-9.236	38.908	1.00	20.00		C
ATOM	3991	O	ASP	679	-2.210	-9.713	39.323	1.00	20.00		O
ATOM	3992	N	ASN	680	-3.477	-8.996	37.623	1.00	20.00		N
ATOM	3993	CA	ASN	680	-2.429	-9.255	36.657	1.00	20.00		C
ATOM	3994	CB	ASN	680	-2.736	-10.577	35.953	1.00	20.00		C
ATOM	3995	CG	ASN	680	-1.493	-11.379	35.666	1.00	20.00		C
ATOM	3996	OD1	ASN	680	-0.444	-10.830	35.303	1.00	20.00		O
ATOM	3997	ND2	ASN	680	-1.592	-12.692	35.845	1.00	20.00		N
ATOM	3998	C	ASN	680	-2.288	-8.130	35.638	1.00	20.00		C
ATOM	3999	O	ASN	680	-2.454	-8.347	34.432	1.00	20.00		O
ATOM	4000	N	LEU	681	-1.964	-6.936	36.117	1.00	20.00		N
ATOM	4001	CA	LEU	681	-1.817	-5.795	35.232	1.00	20.00		C
ATOM	4002	CB	LEU	681	-1.690	-4.488	36.028	1.00	20.00		C
ATOM	4003	CG	LEU	681	-2.994	-4.088	36.744	1.00	20.00		C
ATOM	4004	CD1	LEU	681	-2.809	-2.874	37.636	1.00	20.00		C
ATOM	4005	CD2	LEU	681	-4.075	-3.813	35.736	1.00	20.00		C
ATOM	4006	C	LEU	681	-0.674	-5.986	34.237	1.00	20.00		C
ATOM	4007	O	LEU	681	-0.857	-5.752	33.041	1.00	20.00		O
ATOM	4008	N	LYS	682	0.467	-6.496	34.685	1.00	20.00		N
ATOM	4009	CA	LYS	682	1.584	-6.715	33.769	1.00	20.00		C
ATOM	4010	CB	LYS	682	2.834	-7.176	34.530	1.00	20.00		C
ATOM	4011	CG	LYS	682	3.446	-6.058	35.345	1.00	20.00		C
ATOM	4012	CD	LYS	682	4.663	-6.499	36.135	1.00	20.00		C
ATOM	4013	CE	LYS	682	5.001	-5.465	37.224	1.00	20.00		C
ATOM	4014	NZ	LYS	682	4.967	-4.043	36.727	1.00	20.00		N
ATOM	4015	C	LYS	682	1.257	-7.664	32.601	1.00	20.00		C
ATOM	4016	O	LYS	682	1.550	-7.352	31.445	1.00	20.00		O
ATOM	4017	N	GLY	683	0.636	-8.805	32.887	1.00	20.00		N
ATOM	4018	CA	GLY	683	0.294	-9.740	31.828	1.00	20.00		C
ATOM	4019	C	GLY	683	-0.774	-9.167	30.921	1.00	20.00		C
ATOM	4020	O	GLY	683	-0.736	-9.371	29.713	1.00	20.00		O
ATOM	4021	N	THR	684	-1.709	-8.414	31.497	1.00	20.00		N
ATOM	4022	CA	THR	684	-2.790	-7.802	30.725	1.00	20.00		C
ATOM	4023	CB	THR	684	-3.861	-7.179	31.668	1.00	20.00		C
ATOM	4024	OG1	THR	684	-4.453	-8.214	32.465	1.00	20.00		O
ATOM	4025	CG2	THR	684	-4.961	-6.473	30.875	1.00	20.00		C
ATOM	4026	C	THR	684	-2.304	-6.738	29.723	1.00	20.00		C
ATOM	4027	O	THR	684	-2.796	-6.679	28.596	1.00	20.00		O
ATOM	4028	N	PHE	685	-1.315	-5.936	30.111	1.00	20.00		N
ATOM	4029	CA	PHE	685	-0.802	-4.875	29.245	1.00	20.00		C
ATOM	4030	CB	PHE	685	-0.697	-3.566	30.035	1.00	20.00		C
ATOM	4031	CG	PHE	685	-2.032	-2.967	30.398	1.00	20.00		C
ATOM	4032	CD1	PHE	685	-2.512	-3.039	31.702	1.00	20.00		C
ATOM	4033	CD2	PHE	685	-2.828	-2.358	29.430	1.00	20.00		C
ATOM	4034	CE1	PHE	685	-3.768	-2.499	32.038	1.00	20.00		C
ATOM	4035	CE2	PHE	685	-4.078	-1.819	29.752	1.00	20.00		C
ATOM	4036	CZ	PHE	685	-4.552	-1.896	31.063	1.00	20.00		C
ATOM	4037	C	PHE	685	0.513	-5.143	28.490	1.00	20.00		C
ATOM	4038	O	PHE	685	0.999	-4.262	27.770	1.00	20.00		O
ATOM	4039	N	ALA	686	1.026	-6.373	28.565	1.00	20.00		N
ATOM	4040	CA	ALA	686	2.283	-6.737	27.904	1.00	20.00		C
ATOM	4041	CB	ALA	686	2.549	-8.243	28.068	1.00	20.00		C

ATOM	4042	C	ALA	686	2.341	-6.339	26.414	1.00	20.00	C
ATOM	4043	O	ALA	686	3.278	-5.664	25.970	1.00	20.00	O
ATOM	4044	N	THR	687	1.342	-6.760	25.647	1.00	20.00	N
ATOM	4045	CA	THR	687	1.280	-6.443	24.224	1.00	20.00	C
ATOM	4046	CB	THR	687	0.070	-7.142	23.580	1.00	20.00	C
ATOM	4047	OG1	THR	687	0.195	-8.553	23.792	1.00	20.00	O
ATOM	4048	CG2	THR	687	0.007	-6.874	22.090	1.00	20.00	C
ATOM	4049	C	THR	687	1.262	-4.930	23.963	1.00	20.00	C
ATOM	4050	O	THR	687	2.022	-4.430	23.130	1.00	20.00	O
ATOM	4051	N	LEU	688	0.410	-4.198	24.674	1.00	20.00	N
ATOM	4052	CA	LEU	688	0.349	-2.754	24.514	1.00	20.00	C
ATOM	4053	CB	LEU	688	-0.872	-2.175	25.231	1.00	20.00	C
ATOM	4054	CG	LEU	688	-2.207	-2.442	24.542	1.00	20.00	C
ATOM	4055	CD1	LEU	688	-3.326	-1.837	25.364	1.00	20.00	C
ATOM	4056	CD2	LEU	688	-2.192	-1.847	23.123	1.00	20.00	C
ATOM	4057	C	LEU	688	1.626	-2.074	25.013	1.00	20.00	C
ATOM	4058	O	LEU	688	1.991	-1.005	24.518	1.00	20.00	O
ATOM	4059	N	SER	689	2.307	-2.678	25.987	1.00	20.00	N
ATOM	4060	CA	SER	689	3.558	-2.105	26.503	1.00	20.00	C
ATOM	4061	CB	SER	689	4.024	-2.852	27.748	1.00	20.00	C
ATOM	4062	OG	SER	689	5.247	-2.311	28.226	1.00	20.00	O
ATOM	4063	C	SER	689	4.630	-2.144	25.392	1.00	20.00	C
ATOM	4064	O	SER	689	5.286	-1.129	25.090	1.00	20.00	O
ATOM	4065	N	GLU	690	4.768	-3.299	24.747	1.00	20.00	N
ATOM	4066	CA	GLU	690	5.709	-3.442	23.648	1.00	20.00	C
ATOM	4067	CB	GLU	690	5.670	-4.858	23.089	1.00	20.00	C
ATOM	4068	CG	GLU	690	6.278	-5.901	23.973	1.00	20.00	C
ATOM	4069	CD	GLU	690	6.170	-7.288	23.361	1.00	20.00	C
ATOM	4070	OE1	GLU	690	6.366	-7.409	22.129	1.00	20.00	O
ATOM	4071	OE2	GLU	690	5.878	-8.250	24.109	1.00	20.00	O
ATOM	4072	C	GLU	690	5.362	-2.467	22.518	1.00	20.00	C
ATOM	4073	O	GLU	690	6.251	-1.822	21.954	1.00	20.00	O
ATOM	4074	N	LEU	691	4.073	-2.360	22.196	1.00	20.00	N
ATOM	4075	CA	LEU	691	3.620	-1.481	21.126	1.00	20.00	C
ATOM	4076	CB	LEU	691	2.097	-1.554	20.980	1.00	20.00	C
ATOM	4077	CG	LEU	691	1.435	-0.607	19.971	1.00	20.00	C
ATOM	4078	CD1	LEU	691	1.885	-0.964	18.560	1.00	20.00	C
ATOM	4079	CD2	LEU	691	-0.085	-0.676	20.076	1.00	20.00	C
ATOM	4080	C	LEU	691	4.038	-0.042	21.376	1.00	20.00	C
ATOM	4081	O	LEU	691	4.634	0.609	20.498	1.00	20.00	O
ATOM	4082	N	HIS	692	3.745	0.446	22.582	1.00	20.00	N
ATOM	4083	CA	HIS	692	4.068	1.817	22.954	1.00	20.00	C
ATOM	4084	CB	HIS	692	3.438	2.164	24.293	1.00	20.00	C
ATOM	4085	CG	HIS	692	1.969	2.445	24.209	1.00	20.00	C
ATOM	4086	ND1	HIS	692	1.000	1.466	24.104	1.00	20.00	N
ATOM	4087	CD2	HIS	692	1.302	3.629	24.201	1.00	20.00	C
ATOM	4088	NE2	HIS	692	-0.066	3.376	24.091	1.00	20.00	N
ATOM	4089	CE1	HIS	692	-0.196	2.064	24.038	1.00	20.00	C
ATOM	4090	C	HIS	692	5.566	2.096	22.962	1.00	20.00	C
ATOM	4091	O	HIS	692	5.992	3.222	22.686	1.00	20.00	O
ATOM	4092	N	CYS	693	6.369	1.065	23.209	1.00	20.00	N
ATOM	4093	CA	CYS	693	7.816	1.250	23.214	1.00	20.00	C
ATOM	4094	CB	CYS	693	8.512	0.221	24.109	1.00	20.00	C
ATOM	4095	SG	CYS	693	10.320	0.355	24.014	1.00	20.00	S
ATOM	4096	C	CYS	693	8.427	1.161	21.829	1.00	20.00	C
ATOM	4097	O	CYS	693	9.030	2.126	21.332	1.00	20.00	O
ATOM	4098	N	ASP	694	8.254	-0.004	21.212	1.00	20.00	N

ATOM	4099	CA	ASP	694	8.836	-0.284	19.908	1.00	20.00	C
ATOM	4100	CB	ASP	694	8.847	-1.787	19.622	1.00	20.00	C
ATOM	4101	CG	ASP	694	9.666	-2.569	20.628	1.00	20.00	C
ATOM	4102	OD1	ASP	694	10.523	-1.976	21.329	1.00	20.00	O
ATOM	4103	OD2	ASP	694	9.445	-3.791	20.721	1.00	20.00	O
ATOM	4104	C	ASP	694	8.256	0.455	18.739	1.00	20.00	C
ATOM	4105	O	ASP	694	9.011	0.940	17.912	1.00	20.00	O
ATOM	4106	N	LYS	695	6.937	0.570	18.665	1.00	20.00	N
ATOM	4107	CA	LYS	695	6.329	1.268	17.544	1.00	20.00	C
ATOM	4108	CB	LYS	695	5.107	0.511	17.029	1.00	20.00	C
ATOM	4109	CG	LYS	695	5.413	-0.425	15.866	1.00	20.00	C
ATOM	4110	CD	LYS	695	4.472	-0.127	14.704	1.00	20.00	C
ATOM	4111	CE	LYS	695	4.617	-1.146	13.589	1.00	20.00	C
ATOM	4112	NZ	LYS	695	3.321	-1.809	13.457	1.00	20.00	N
ATOM	4113	C	LYS	695	5.953	2.718	17.789	1.00	20.00	C
ATOM	4114	O	LYS	695	6.142	3.559	16.913	1.00	20.00	O
ATOM	4115	N	LEU	696	5.472	3.031	18.986	1.00	20.00	N
ATOM	4116	CA	LEU	696	5.031	4.392	19.268	1.00	20.00	C
ATOM	4117	CB	LEU	696	3.750	4.354	20.110	1.00	20.00	C
ATOM	4118	CG	LEU	696	2.621	3.499	19.500	1.00	20.00	C
ATOM	4119	CD1	LEU	696	1.402	3.410	20.421	1.00	20.00	C
ATOM	4120	CD2	LEU	696	2.238	4.082	18.142	1.00	20.00	C
ATOM	4121	C	LEU	696	6.065	5.341	19.866	1.00	20.00	C
ATOM	4122	O	LEU	696	5.952	6.556	19.686	1.00	20.00	O
ATOM	4123	N	HIS	697	7.069	4.792	20.558	1.00	20.00	N
ATOM	4124	CA	HIS	697	8.137	5.592	21.191	1.00	20.00	C
ATOM	4125	CB	HIS	697	8.966	6.345	20.141	1.00	20.00	C
ATOM	4126	CG	HIS	697	9.389	5.494	18.989	1.00	20.00	C
ATOM	4127	CD2	HIS	697	9.115	5.590	17.666	1.00	20.00	C
ATOM	4128	ND1	HIS	697	10.116	4.334	19.145	1.00	20.00	N
ATOM	4129	CE1	HIS	697	10.270	3.744	17.976	1.00	20.00	C
ATOM	4130	NE2	HIS	697	9.670	4.484	17.060	1.00	20.00	N
ATOM	4131	C	HIS	697	7.583	6.592	22.209	1.00	20.00	C
ATOM	4132	O	HIS	697	8.019	7.743	22.280	1.00	20.00	O
ATOM	4133	N	VAL	698	6.604	6.147	22.987	1.00	20.00	N
ATOM	4134	CA	VAL	698	6.003	7.000	24.002	1.00	20.00	C
ATOM	4135	CB	VAL	698	4.517	6.633	24.221	1.00	20.00	C
ATOM	4136	CG1	VAL	698	3.906	7.507	25.308	1.00	20.00	C
ATOM	4137	CG2	VAL	698	3.751	6.805	22.916	1.00	20.00	C
ATOM	4138	C	VAL	698	6.766	6.867	25.329	1.00	20.00	C
ATOM	4139	O	VAL	698	6.907	5.768	25.869	1.00	20.00	O
ATOM	4140	N	ASP	699	7.317	7.981	25.800	1.00	20.00	N
ATOM	4141	CA	ASP	699	8.033	8.028	27.070	1.00	20.00	C
ATOM	4142	CB	ASP	699	8.459	9.472	27.327	1.00	20.00	C
ATOM	4143	CG	ASP	699	9.274	9.633	28.590	1.00	20.00	C
ATOM	4144	OD1	ASP	699	9.809	10.741	28.776	1.00	20.00	O
ATOM	4145	OD2	ASP	699	9.377	8.674	29.389	1.00	20.00	O
ATOM	4146	C	ASP	699	7.022	7.590	28.130	1.00	20.00	C
ATOM	4147	O	ASP	699	5.966	8.215	28.277	1.00	20.00	O
ATOM	4148	N	PRO	700	7.342	6.540	28.909	1.00	20.00	N
ATOM	4149	CD	PRO	700	8.566	5.723	28.905	1.00	20.00	C
ATOM	4150	CA	PRO	700	6.410	6.064	29.935	1.00	20.00	C
ATOM	4151	CB	PRO	700	7.209	4.959	30.629	1.00	20.00	C
ATOM	4152	CG	PRO	700	8.088	4.457	29.572	1.00	20.00	C
ATOM	4153	C	PRO	700	5.937	7.135	30.920	1.00	20.00	C
ATOM	4154	O	PRO	700	4.878	6.994	31.547	1.00	20.00	O
ATOM	4155	N	GLU	701	6.698	8.221	31.037	1.00	20.00	N

ATOM	4156	CA	GLU	701	6.331	9.304	31.936	1.00	20.00	C
ATOM	4157	CB	GLU	701	7.392	10.398	31.903	1.00	20.00	C
ATOM	4158	CG	GLU	701	7.350	11.307	33.131	1.00	20.00	C
ATOM	4159	CD	GLU	701	7.543	10.538	34.448	1.00	20.00	C
ATOM	4160	OE1	GLU	701	8.496	9.724	34.572	1.00	20.00	O
ATOM	4161	OE2	GLU	701	6.718	10.743	35.356	1.00	20.00	O
ATOM	4162	C	GLU	701	4.950	9.885	31.590	1.00	20.00	C
ATOM	4163	O	GLU	701	4.247	10.411	32.458	1.00	20.00	O
ATOM	4164	N	ASN	702	4.566	9.785	30.317	1.00	20.00	N
ATOM	4165	CA	ASN	702	3.266	10.262	29.855	1.00	20.00	C
ATOM	4166	CB	ASN	702	3.183	10.137	28.335	1.00	20.00	C
ATOM	4167	CG	ASN	702	4.090	11.115	27.620	1.00	20.00	C
ATOM	4168	OD1	ASN	702	3.867	12.320	27.675	1.00	20.00	O
ATOM	4169	ND2	ASN	702	5.121	10.603	26.943	1.00	20.00	N
ATOM	4170	C	ASN	702	2.118	9.463	30.487	1.00	20.00	C
ATOM	4171	O	ASN	702	1.024	10.002	30.701	1.00	20.00	O
ATOM	4172	N	PHE	703	2.365	8.179	30.765	1.00	20.00	N
ATOM	4173	CA	PHE	703	1.360	7.295	31.372	1.00	20.00	C
ATOM	4174	CB	PHE	703	1.877	5.851	31.489	1.00	20.00	C
ATOM	4175	CG	PHE	703	2.240	5.219	30.173	1.00	20.00	C
ATOM	4176	CD1	PHE	703	1.542	5.540	29.012	1.00	20.00	C
ATOM	4177	CD2	PHE	703	3.302	4.322	30.090	1.00	20.00	C
ATOM	4178	CE1	PHE	703	1.899	4.979	27.792	1.00	20.00	C
ATOM	4179	CE2	PHE	703	3.661	3.762	28.873	1.00	20.00	C
ATOM	4180	CZ	PHE	703	2.962	4.090	27.727	1.00	20.00	C
ATOM	4181	C	PHE	703	1.024	7.816	32.767	1.00	20.00	C
ATOM	4182	O	PHE	703	-0.134	7.763	33.201	1.00	20.00	O
ATOM	4183	N	ARG	704	2.050	8.319	33.456	1.00	20.00	N
ATOM	4184	CA	ARG	704	1.901	8.872	34.795	1.00	20.00	C
ATOM	4185	CB	ARG	704	3.280	9.069	35.444	1.00	20.00	C
ATOM	4186	CG	ARG	704	3.987	7.722	35.632	1.00	20.00	C
ATOM	4187	CD	ARG	704	5.436	7.754	36.166	1.00	20.00	C
ATOM	4188	NE	ARG	704	5.964	6.377	36.246	1.00	20.00	N
ATOM	4189	CZ	ARG	704	6.728	5.786	35.318	1.00	20.00	C
ATOM	4190	NH1	ARG	704	7.097	6.442	34.222	1.00	20.00	N
ATOM	4191	NH2	ARG	704	7.051	4.501	35.442	1.00	20.00	N
ATOM	4192	C	ARG	704	1.087	10.160	34.759	1.00	20.00	C
ATOM	4193	O	ARG	704	0.145	10.329	35.543	1.00	20.00	O
ATOM	4194	N	LEU	705	1.399	11.039	33.815	1.00	20.00	N
ATOM	4195	CA	LEU	705	0.660	12.293	33.690	1.00	20.00	C
ATOM	4196	CB	LEU	705	1.250	13.189	32.590	1.00	20.00	C
ATOM	4197	CG	LEU	705	2.663	13.722	32.844	1.00	20.00	C
ATOM	4198	CD1	LEU	705	3.194	14.513	31.656	1.00	20.00	C
ATOM	4199	CD2	LEU	705	2.626	14.594	34.085	1.00	20.00	C
ATOM	4200	C	LEU	705	-0.819	12.011	33.401	1.00	20.00	C
ATOM	4201	O	LEU	705	-1.697	12.616	34.007	1.00	20.00	O
ATOM	4202	N	LEU	706	-1.098	11.081	32.493	1.00	20.00	N
ATOM	4203	CA	LEU	706	-2.485	10.761	32.165	1.00	20.00	C
ATOM	4204	CB	LEU	706	-2.553	9.761	31.008	1.00	20.00	C
ATOM	4205	CG	LEU	706	-3.966	9.314	30.634	1.00	20.00	C
ATOM	4206	CD1	LEU	706	-4.755	10.506	30.094	1.00	20.00	C
ATOM	4207	CD2	LEU	706	-3.889	8.212	29.616	1.00	20.00	C
ATOM	4208	C	LEU	706	-3.251	10.225	33.375	1.00	20.00	C
ATOM	4209	O	LEU	706	-4.419	10.571	33.567	1.00	20.00	O
ATOM	4210	N	GLY	707	-2.591	9.383	34.176	1.00	20.00	N
ATOM	4211	CA	GLY	707	-3.210	8.830	35.370	1.00	20.00	C
ATOM	4212	C	GLY	707	-3.650	9.923	36.341	1.00	20.00	C

ATOM	4213	O	GLY	707	-4.745	9.866	36.897	1.00	20.00	O
ATOM	4214	N	ASN	708	-2.819	10.947	36.508	1.00	20.00	N
ATOM	4215	CA	ASN	708	-3.132	12.056	37.403	1.00	20.00	C
ATOM	4216	CB	ASN	708	-1.895	12.907	37.656	1.00	20.00	C
ATOM	4217	CG	ASN	708	-0.868	12.187	38.508	1.00	20.00	C
ATOM	4218	OD1	ASN	708	-1.208	11.313	39.318	1.00	20.00	O
ATOM	4219	ND2	ASN	708	0.389	12.565	38.351	1.00	20.00	N
ATOM	4220	C	ASN	708	-4.259	12.912	36.867	1.00	20.00	C
ATOM	4221	O	ASN	708	-5.125	13.360	37.628	1.00	20.00	O
ATOM	4222	N	VAL	709	-4.239	13.156	35.560	1.00	20.00	N
ATOM	4223	CA	VAL	709	-5.285	13.932	34.913	1.00	20.00	C
ATOM	4224	CB	VAL	709	-4.956	14.194	33.422	1.00	20.00	C
ATOM	4225	CG1	VAL	709	-6.143	14.831	32.713	1.00	20.00	C
ATOM	4226	CG2	VAL	709	-3.731	15.114	33.304	1.00	20.00	C
ATOM	4227	C	VAL	709	-6.599	13.160	35.037	1.00	20.00	C
ATOM	4228	O	VAL	709	-7.637	13.747	35.300	1.00	20.00	O
ATOM	4229	N	LEU	710	-6.560	11.843	34.865	1.00	20.00	N
ATOM	4230	CA	LEU	710	-7.777	11.041	34.984	1.00	20.00	C
ATOM	4231	CB	LEU	710	-7.468	9.570	34.736	1.00	20.00	C
ATOM	4232	CG	LEU	710	-8.638	8.619	34.943	1.00	20.00	C
ATOM	4233	CD1	LEU	710	-9.782	8.985	34.019	1.00	20.00	C
ATOM	4234	CD2	LEU	710	-8.185	7.189	34.709	1.00	20.00	C
ATOM	4235	C	LEU	710	-8.402	11.222	36.383	1.00	20.00	C
ATOM	4236	O	LEU	710	-9.626	11.381	36.521	1.00	20.00	O
ATOM	4237	N	VAL	711	-7.554	11.225	37.409	1.00	20.00	N
ATOM	4238	CA	VAL	711	-8.015	11.393	38.781	1.00	20.00	C
ATOM	4239	CB	VAL	711	-6.855	11.200	39.790	1.00	20.00	C
ATOM	4240	CG1	VAL	711	-7.280	11.629	41.197	1.00	20.00	C
ATOM	4241	CG2	VAL	711	-6.417	9.729	39.794	1.00	20.00	C
ATOM	4242	C	VAL	711	-8.701	12.753	38.947	1.00	20.00	C
ATOM	4243	O	VAL	711	-9.747	12.836	39.597	1.00	20.00	O
ATOM	4244	N	CYS	712	-8.144	13.805	38.338	1.00	20.00	N
ATOM	4245	CA	CYS	712	-8.744	15.136	38.416	1.00	20.00	C
ATOM	4246	CB	CYS	712	-7.863	16.196	37.742	1.00	20.00	C
ATOM	4247	SG	CYS	712	-6.364	16.619	38.665	1.00	20.00	S
ATOM	4248	C	CYS	712	-10.112	15.142	37.749	1.00	20.00	C
ATOM	4249	O	CYS	712	-11.043	15.806	38.222	1.00	20.00	O
ATOM	4250	N	VAL	713	-10.219	14.404	36.644	1.00	20.00	N
ATOM	4251	CA	VAL	713	-11.455	14.307	35.879	1.00	20.00	C
ATOM	4252	CB	VAL	713	-11.194	13.613	34.514	1.00	20.00	C
ATOM	4253	CG1	VAL	713	-12.514	13.308	33.812	1.00	20.00	C
ATOM	4254	CG2	VAL	713	-10.305	14.525	33.622	1.00	20.00	C
ATOM	4255	C	VAL	713	-12.527	13.566	36.687	1.00	20.00	C
ATOM	4256	O	VAL	713	-13.693	13.985	36.720	1.00	20.00	O
ATOM	4257	N	LEU	714	-12.130	12.497	37.377	1.00	20.00	N
ATOM	4258	CA	LEU	714	-13.077	11.743	38.191	1.00	20.00	C
ATOM	4259	CB	LEU	714	-12.426	10.480	38.733	1.00	20.00	C
ATOM	4260	CG	LEU	714	-12.044	9.490	37.634	1.00	20.00	C
ATOM	4261	CD1	LEU	714	-11.424	8.259	38.260	1.00	20.00	C
ATOM	4262	CD2	LEU	714	-13.296	9.107	36.844	1.00	20.00	C
ATOM	4263	C	LEU	714	-13.603	12.636	39.313	1.00	20.00	C
ATOM	4264	O	LEU	714	-14.816	12.699	39.536	1.00	20.00	O
ATOM	4265	N	ALA	715	-12.696	13.376	39.961	1.00	20.00	N
ATOM	4266	CA	ALA	715	-13.044	14.313	41.037	1.00	20.00	C
ATOM	4267	CB	ALA	715	-11.780	14.976	41.584	1.00	20.00	C
ATOM	4268	C	ALA	715	-14.000	15.390	40.506	1.00	20.00	C
ATOM	4269	O	ALA	715	-15.034	15.681	41.112	1.00	20.00	O

ATOM	4270	N	HIS	716	-13.658	15.971	39.360	1.00	20.00	N
ATOM	4271	CA	HIS	716	-14.477	17.010	38.744	1.00	20.00	C
ATOM	4272	CB	HIS	716	-13.778	17.535	37.494	1.00	20.00	C
ATOM	4273	CG	HIS	716	-14.545	18.593	36.765	1.00	20.00	C
ATOM	4274	CD2	HIS	716	-15.003	19.802	37.168	1.00	20.00	C
ATOM	4275	ND1	HIS	716	-14.889	18.479	35.436	1.00	20.00	N
ATOM	4276	CE1	HIS	716	-15.521	19.571	35.048	1.00	20.00	C
ATOM	4277	NE2	HIS	716	-15.603	20.390	36.079	1.00	20.00	N
ATOM	4278	C	HIS	716	-15.865	16.491	38.381	1.00	20.00	C
ATOM	4279	O	HIS	716	-16.865	17.172	38.581	1.00	20.00	O
ATOM	4280	N	HIS	717	-15.919	15.286	37.824	1.00	20.00	N
ATOM	4281	CA	HIS	717	-17.191	14.694	37.423	1.00	20.00	C
ATOM	4282	CB	HIS	717	-16.938	13.541	36.447	1.00	20.00	C
ATOM	4283	CG	HIS	717	-18.192	12.926	35.902	1.00	20.00	C
ATOM	4284	CD2	HIS	717	-18.753	11.711	36.107	1.00	20.00	C
ATOM	4285	ND1	HIS	717	-19.045	13.603	35.056	1.00	20.00	N
ATOM	4286	CE1	HIS	717	-20.079	12.831	34.768	1.00	20.00	C
ATOM	4287	NE2	HIS	717	-19.924	11.678	35.392	1.00	20.00	N
ATOM	4288	C	HIS	717	-18.068	14.193	38.579	1.00	20.00	C
ATOM	4289	O	HIS	717	-19.293	14.344	38.544	1.00	20.00	O
ATOM	4290	N	PHE	718	-17.443	13.563	39.573	1.00	20.00	N
ATOM	4291	CA	PHE	718	-18.162	12.994	40.714	1.00	20.00	C
ATOM	4292	CB	PHE	718	-17.607	11.614	41.036	1.00	20.00	C
ATOM	4293	CG	PHE	718	-17.949	10.599	39.998	1.00	20.00	C
ATOM	4294	CD1	PHE	718	-16.995	10.166	39.085	1.00	20.00	C
ATOM	4295	CD2	PHE	718	-19.253	10.116	39.895	1.00	20.00	C
ATOM	4296	CE1	PHE	718	-17.337	9.269	38.065	1.00	20.00	C
ATOM	4297	CE2	PHE	718	-19.612	9.218	38.878	1.00	20.00	C
ATOM	4298	CZ	PHE	718	-18.652	8.792	37.964	1.00	20.00	C
ATOM	4299	C	PHE	718	-18.323	13.827	41.982	1.00	20.00	C
ATOM	4300	O	PHE	718	-19.153	13.494	42.841	1.00	20.00	O
ATOM	4301	N	GLY	719	-17.567	14.916	42.092	1.00	20.00	N
ATOM	4302	CA	GLY	719	-17.681	15.777	43.262	1.00	20.00	C
ATOM	4303	C	GLY	719	-17.397	15.101	44.598	1.00	20.00	C
ATOM	4304	O	GLY	719	-16.477	14.289	44.715	1.00	20.00	O
ATOM	4305	N	LYS	720	-18.233	15.370	45.596	1.00	20.00	N
ATOM	4306	CA	LYS	720	-18.018	14.800	46.919	1.00	20.00	C
ATOM	4307	CB	LYS	720	-18.992	15.383	47.954	1.00	20.00	C
ATOM	4308	CG	LYS	720	-20.456	15.072	47.742	1.00	20.00	C
ATOM	4309	CD	LYS	720	-21.261	15.516	48.971	1.00	20.00	C
ATOM	4310	CE	LYS	720	-22.759	15.235	48.801	1.00	20.00	C
ATOM	4311	NZ	LYS	720	-23.072	13.774	48.623	1.00	20.00	N
ATOM	4312	C	LYS	720	-17.980	13.276	47.003	1.00	20.00	C
ATOM	4313	O	LYS	720	-17.415	12.733	47.941	1.00	20.00	O
ATOM	4314	N	GLU	721	-18.538	12.587	46.017	1.00	20.00	N
ATOM	4315	CA	GLU	721	-18.526	11.127	46.012	1.00	20.00	C
ATOM	4316	CB	GLU	721	-19.447	10.599	44.915	1.00	20.00	C
ATOM	4317	CG	GLU	721	-19.624	9.098	44.907	1.00	20.00	C
ATOM	4318	CD	GLU	721	-20.524	8.598	43.768	1.00	20.00	C
ATOM	4319	OE1	GLU	721	-20.507	7.370	43.508	1.00	20.00	O
ATOM	4320	OE2	GLU	721	-21.243	9.416	43.141	1.00	20.00	O
ATOM	4321	C	GLU	721	-17.103	10.597	45.803	1.00	20.00	C
ATOM	4322	O	GLU	721	-16.815	9.441	46.105	1.00	20.00	O
ATOM	4323	N	PHE	722	-16.230	11.422	45.231	1.00	20.00	N
ATOM	4324	CA	PHE	722	-14.845	11.016	45.011	1.00	20.00	C
ATOM	4325	CB	PHE	722	-14.246	11.749	43.803	1.00	20.00	C
ATOM	4326	CG	PHE	722	-12.949	11.153	43.313	1.00	20.00	C

ATOM	4327	CD1	PHE	722	-12.926	9.882	42.736	1.00	20.00	C
ATOM	4328	CD2	PHE	722	-11.756	11.869	43.406	1.00	20.00	C
ATOM	4329	CE1	PHE	722	-11.731	9.329	42.257	1.00	20.00	C
ATOM	4330	CE2	PHE	722	-10.564	11.331	42.934	1.00	20.00	C
ATOM	4331	CZ	PHE	722	-10.550	10.057	42.355	1.00	20.00	C
ATOM	4332	C	PHE	722	-14.131	11.420	46.291	1.00	20.00	C
ATOM	4333	O	PHE	722	-13.429	12.433	46.345	1.00	20.00	O
ATOM	4334	N	THR	723	-14.366	10.641	47.337	1.00	20.00	N
ATOM	4335	CA	THR	723	-13.805	10.899	48.663	1.00	20.00	C
ATOM	4336	CB	THR	723	-14.518	10.014	49.701	1.00	20.00	C
ATOM	4337	OG1	THR	723	-14.317	8.639	49.345	1.00	20.00	O
ATOM	4338	CG2	THR	723	-16.036	10.315	49.747	1.00	20.00	C
ATOM	4339	C	THR	723	-12.302	10.623	48.758	1.00	20.00	C
ATOM	4340	O	THR	723	-11.732	9.924	47.927	1.00	20.00	O
ATOM	4341	N	PRO	724	-11.644	11.159	49.795	1.00	20.00	N
ATOM	4342	CD	PRO	724	-12.077	12.200	50.747	1.00	20.00	C
ATOM	4343	CA	PRO	724	-10.204	10.894	49.908	1.00	20.00	C
ATOM	4344	CB	PRO	724	-9.837	11.561	51.235	1.00	20.00	C
ATOM	4345	CG	PRO	724	-10.741	12.785	51.220	1.00	20.00	C
ATOM	4346	C	PRO	724	-9.855	9.394	49.849	1.00	20.00	C
ATOM	4347	O	PRO	724	-8.891	9.024	49.194	1.00	20.00	O
ATOM	4348	N	PRO	725	-10.623	8.509	50.528	1.00	20.00	N
ATOM	4349	CD	PRO	725	-11.641	8.716	51.570	1.00	20.00	C
ATOM	4350	CA	PRO	725	-10.284	7.084	50.449	1.00	20.00	C
ATOM	4351	CB	PRO	725	-11.298	6.445	51.394	1.00	20.00	C
ATOM	4352	CG	PRO	725	-11.490	7.479	52.397	1.00	20.00	C
ATOM	4353	C	PRO	725	-10.446	6.535	49.023	1.00	20.00	C
ATOM	4354	O	PRO	725	-9.664	5.673	48.582	1.00	20.00	O
ATOM	4355	N	VAL	726	-11.475	7.014	48.313	1.00	20.00	N
ATOM	4356	CA	VAL	726	-11.716	6.581	46.932	1.00	20.00	C
ATOM	4357	CB	VAL	726	-13.089	7.087	46.394	1.00	20.00	C
ATOM	4358	CG1	VAL	726	-13.268	6.681	44.919	1.00	20.00	C
ATOM	4359	CG2	VAL	726	-14.209	6.491	47.221	1.00	20.00	C
ATOM	4360	C	VAL	726	-10.561	7.049	46.013	1.00	20.00	C
ATOM	4361	O	VAL	726	-10.091	6.281	45.159	1.00	20.00	O
ATOM	4362	N	GLN	727	-10.108	8.294	46.190	1.00	20.00	N
ATOM	4363	CA	GLN	727	-8.996	8.815	45.410	1.00	20.00	C
ATOM	4364	CB	GLN	727	-8.669	10.264	45.791	1.00	20.00	C
ATOM	4365	CG	GLN	727	-7.310	10.734	45.212	1.00	20.00	C
ATOM	4366	CD	GLN	727	-6.922	12.143	45.615	1.00	20.00	C
ATOM	4367	OE1	GLN	727	-7.698	12.866	46.230	1.00	20.00	O
ATOM	4368	NE2	GLN	727	-5.710	12.544	45.256	1.00	20.00	N
ATOM	4369	C	GLN	727	-7.762	7.954	45.649	1.00	20.00	C
ATOM	4370	O	GLN	727	-7.070	7.575	44.708	1.00	20.00	O
ATOM	4371	N	ALA	728	-7.500	7.631	46.915	1.00	20.00	N
ATOM	4372	CA	ALA	728	-6.339	6.815	47.281	1.00	20.00	C
ATOM	4373	CB	ALA	728	-6.279	6.623	48.794	1.00	20.00	C
ATOM	4374	C	ALA	728	-6.335	5.462	46.581	1.00	20.00	C
ATOM	4375	O	ALA	728	-5.282	4.991	46.158	1.00	20.00	O
ATOM	4376	N	ALA	729	-7.505	4.834	46.467	1.00	20.00	N
ATOM	4377	CA	ALA	729	-7.599	3.535	45.805	1.00	20.00	C
ATOM	4378	CB	ALA	729	-8.992	2.927	45.986	1.00	20.00	C
ATOM	4379	C	ALA	729	-7.291	3.776	44.332	1.00	20.00	C
ATOM	4380	O	ALA	729	-6.482	3.064	43.746	1.00	20.00	O
ATOM	4381	N	TYR	730	-7.876	4.826	43.757	1.00	20.00	N
ATOM	4382	CA	TYR	730	-7.631	5.156	42.358	1.00	20.00	C
ATOM	4383	CB	TYR	730	-8.590	6.242	41.860	1.00	20.00	C

ATOM	4384	CG	TYR	730	-9.834	5.646	41.236	1.00	20.00	C
ATOM	4385	CD1	TYR	730	-9.811	5.163	39.929	1.00	20.00	C
ATOM	4386	CE1	TYR	730	-10.916	4.512	39.384	1.00	20.00	C
ATOM	4387	CD2	TYR	730	-11.001	5.471	41.981	1.00	20.00	C
ATOM	4388	CE2	TYR	730	-12.107	4.821	41.445	1.00	20.00	C
ATOM	4389	CZ	TYR	730	-12.060	4.342	40.152	1.00	20.00	C
ATOM	4390	OH	TYR	730	-13.144	3.680	39.620	1.00	20.00	O
ATOM	4391	C	TYR	730	-6.173	5.514	42.066	1.00	20.00	C
ATOM	4392	O	TYR	730	-5.636	5.113	41.029	1.00	20.00	O
ATOM	4393	N	GLN	731	-5.501	6.187	43.000	1.00	20.00	N
ATOM	4394	CA	GLN	731	-4.098	6.528	42.776	1.00	20.00	C
ATOM	4395	CB	GLN	731	-3.529	7.361	43.917	1.00	20.00	C
ATOM	4396	CG	GLN	731	-4.147	8.740	44.027	1.00	20.00	C
ATOM	4397	CD	GLN	731	-3.717	9.710	42.942	1.00	20.00	C
ATOM	4398	OE1	GLN	731	-4.277	10.803	42.841	1.00	20.00	O
ATOM	4399	NE2	GLN	731	-2.695	9.352	42.170	1.00	20.00	N
ATOM	4400	C	GLN	731	-3.270	5.263	42.608	1.00	20.00	C
ATOM	4401	O	GLN	731	-2.351	5.217	41.794	1.00	20.00	O
ATOM	4402	N	LYS	732	-3.580	4.239	43.390	1.00	20.00	N
ATOM	4403	CA	LYS	732	-2.838	2.989	43.279	1.00	20.00	C
ATOM	4404	CB	LYS	732	-3.226	2.008	44.387	1.00	20.00	C
ATOM	4405	CG	LYS	732	-2.895	2.443	45.803	1.00	20.00	C
ATOM	4406	CD	LYS	732	-3.140	1.275	46.750	1.00	20.00	C
ATOM	4407	CE	LYS	732	-3.262	1.724	48.190	1.00	20.00	C
ATOM	4408	NZ	LYS	732	-3.539	0.536	49.043	1.00	20.00	N
ATOM	4409	C	LYS	732	-3.078	2.305	41.932	1.00	20.00	C
ATOM	4410	O	LYS	732	-2.147	1.789	41.328	1.00	20.00	O
ATOM	4411	N	VAL	733	-4.334	2.269	41.497	1.00	20.00	N
ATOM	4412	CA	VAL	733	-4.708	1.614	40.241	1.00	20.00	C
ATOM	4413	CB	VAL	733	-6.236	1.684	40.030	1.00	20.00	C
ATOM	4414	CG1	VAL	733	-6.595	1.311	38.595	1.00	20.00	C
ATOM	4415	CG2	VAL	733	-6.934	0.756	41.022	1.00	20.00	C
ATOM	4416	C	VAL	733	-3.999	2.278	39.067	1.00	20.00	C
ATOM	4417	O	VAL	733	-3.357	1.627	38.244	1.00	20.00	O
ATOM	4418	N	VAL	734	-4.099	3.596	39.046	1.00	20.00	N
ATOM	4419	CA	VAL	734	-3.496	4.431	38.033	1.00	20.00	C
ATOM	4420	CB	VAL	734	-3.991	5.865	38.270	1.00	20.00	C
ATOM	4421	CG1	VAL	734	-2.882	6.862	38.263	1.00	20.00	C
ATOM	4422	CG2	VAL	734	-5.061	6.175	37.287	1.00	20.00	C
ATOM	4423	C	VAL	734	-1.955	4.263	37.978	1.00	20.00	C
ATOM	4424	O	VAL	734	-1.384	4.164	36.888	1.00	20.00	O
ATOM	4425	N	ALA	735	-1.299	4.166	39.141	1.00	20.00	N
ATOM	4426	CA	ALA	735	0.155	3.963	39.210	1.00	20.00	C
ATOM	4427	CB	ALA	735	0.664	4.193	40.623	1.00	20.00	C
ATOM	4428	C	ALA	735	0.490	2.531	38.752	1.00	20.00	C
ATOM	4429	O	ALA	735	1.518	2.293	38.102	1.00	20.00	O
ATOM	4430	N	GLY	736	-0.398	1.590	39.071	1.00	20.00	N
ATOM	4431	CA	GLY	736	-0.214	0.202	38.671	1.00	20.00	C
ATOM	4432	C	GLY	736	-0.309	0.020	37.162	1.00	20.00	C
ATOM	4433	O	GLY	736	0.510	-0.682	36.562	1.00	20.00	O
ATOM	4434	N	VAL	737	-1.294	0.674	36.544	1.00	20.00	N
ATOM	4435	CA	VAL	737	-1.477	0.625	35.102	1.00	20.00	C
ATOM	4436	CB	VAL	737	-2.801	1.337	34.673	1.00	20.00	C
ATOM	4437	CG1	VAL	737	-2.864	1.522	33.152	1.00	20.00	C
ATOM	4438	CG2	VAL	737	-4.001	0.524	35.128	1.00	20.00	C
ATOM	4439	C	VAL	737	-0.260	1.281	34.421	1.00	20.00	C
ATOM	4440	O	VAL	737	0.293	0.728	33.467	1.00	20.00	O

ATOM	4441	N	ALA	738	0.180	2.439	34.916	1.00	20.00	N
ATOM	4442	CA	ALA	738	1.345	3.112	34.339	1.00	20.00	C
ATOM	4443	CB	ALA	738	1.631	4.420	35.068	1.00	20.00	C
ATOM	4444	C	ALA	738	2.554	2.178	34.395	1.00	20.00	C
ATOM	4445	O	ALA	738	3.387	2.171	33.470	1.00	20.00	O
ATOM	4446	N	ASN	739	2.660	1.412	35.483	1.00	20.00	N
ATOM	4447	CA	ASN	739	3.760	0.481	35.601	1.00	20.00	C
ATOM	4448	CB	ASN	739	4.126	0.125	37.026	1.00	20.00	C
ATOM	4449	CG	ASN	739	5.052	0.990	37.499	1.00	20.00	C
ATOM	4450	OD1	ASN	739	5.671	1.865	36.630	1.00	20.00	O
ATOM	4451	ND2	ASN	739	5.294	1.071	38.778	1.00	20.00	N
ATOM	4452	C	ASN	739	3.713	-0.691	34.719	1.00	20.00	C
ATOM	4453	O	ASN	739	4.742	-1.070	34.148	1.00	20.00	O
ATOM	4454	N	ALA	740	2.508	-1.219	34.575	1.00	20.00	N
ATOM	4455	CA	ALA	740	2.247	-2.318	33.681	1.00	20.00	C
ATOM	4456	CB	ALA	740	0.779	-2.696	33.746	1.00	20.00	C
ATOM	4457	C	ALA	740	2.638	-1.923	32.250	1.00	20.00	C
ATOM	4458	O	ALA	740	3.323	-2.685	31.564	1.00	20.00	O
ATOM	4459	N	LEU	741	2.255	-0.716	31.836	1.00	20.00	N
ATOM	4460	CA	LEU	741	2.558	-0.234	30.497	1.00	20.00	C
ATOM	4461	CB	LEU	741	1.693	0.982	30.162	1.00	20.00	C
ATOM	4462	CG	LEU	741	0.281	0.648	29.686	1.00	20.00	C
ATOM	4463	CD1	LEU	741	-0.524	1.917	29.560	1.00	20.00	C
ATOM	4464	CD2	LEU	741	0.345	-0.073	28.339	1.00	20.00	C
ATOM	4465	C	LEU	741	4.031	0.074	30.226	1.00	20.00	C
ATOM	4466	O	LEU	741	4.489	-0.066	29.095	1.00	20.00	O
ATOM	4467	N	ALA	742	4.785	0.473	31.244	1.00	20.00	N
ATOM	4468	CA	ALA	742	6.198	0.796	31.050	1.00	20.00	C
ATOM	4469	CB	ALA	742	6.619	1.839	32.043	1.00	20.00	C
ATOM	4470	C	ALA	742	7.065	-0.421	31.237	1.00	20.00	C
ATOM	4471	O	ALA	742	8.273	-0.396	30.959	1.00	20.00	O
ATOM	4472	N	HIS	743	6.454	-1.510	31.647	1.00	20.00	N
ATOM	4473	CA	HIS	743	7.247	-2.670	31.928	1.00	20.00	C
ATOM	4474	CB	HIS	743	6.431	-3.537	32.868	1.00	20.00	C
ATOM	4475	CG	HIS	743	7.155	-4.768	33.332	1.00	20.00	C
ATOM	4476	CD2	HIS	743	7.727	-5.051	34.538	1.00	20.00	C
ATOM	4477	ND1	HIS	743	7.171	-5.951	32.626	1.00	20.00	N
ATOM	4478	CE1	HIS	743	7.692	-6.875	33.331	1.00	20.00	C
ATOM	4479	NE2	HIS	743	8.046	-6.379	34.505	1.00	20.00	N
ATOM	4480	C	HIS	743	7.985	-3.414	30.817	1.00	20.00	C
ATOM	4481	O	HIS	743	8.999	-4.050	31.105	1.00	20.00	O
ATOM	4482	N	LYS	744	7.532	-3.329	29.567	1.00	20.00	N
ATOM	4483	CA	LYS	744	8.248	-3.984	28.453	1.00	20.00	C
ATOM	4484	CB	LYS	744	7.272	-4.577	27.428	1.00	20.00	C
ATOM	4485	CG	LYS	744	6.589	-5.843	27.870	1.00	20.00	C
ATOM	4486	CD	LYS	744	7.579	-6.988	27.876	1.00	20.00	C
ATOM	4487	CE	LYS	744	6.897	-8.303	28.211	1.00	20.00	C
ATOM	4488	NZ	LYS	744	7.819	-9.468	28.043	1.00	20.00	N
ATOM	4489	C	LYS	744	9.235	-3.061	27.729	1.00	20.00	C
ATOM	4490	O	LYS	744	9.737	-3.411	26.663	1.00	20.00	O
ATOM	4491	N	TYR	745	9.484	-1.877	28.282	1.00	20.00	N
ATOM	4492	CA	TYR	745	10.421	-0.938	27.669	1.00	20.00	C
ATOM	4493	CB	TYR	745	10.304	0.469	28.270	1.00	20.00	C
ATOM	4494	CG	TYR	745	9.168	1.269	27.677	1.00	20.00	C
ATOM	4495	CD1	TYR	745	9.414	2.430	26.940	1.00	20.00	C
ATOM	4496	CE1	TYR	745	8.375	3.130	26.356	1.00	20.00	C
ATOM	4497	CD2	TYR	745	7.845	0.839	27.811	1.00	20.00	C

ATOM	4498	CE2	TYR	745	6.804	1.533	27.232	1.00	20.00	C
ATOM	4499	CZ	TYR	745	7.071	2.669	26.509	1.00	20.00	C
ATOM	4500	OH	TYR	745	6.027	3.352	25.934	1.00	20.00	O
ATOM	4501	C	TYR	745	11.842	-1.456	27.809	1.00	20.00	C
ATOM	4502	O	TYR	745	12.181	-2.113	28.796	1.00	20.00	O
ATOM	4503	N	HIS	746	12.666	-1.167	26.811	1.00	20.00	N
ATOM	4504	CA	HIS	746	14.051	-1.627	26.797	1.00	20.00	C
ATOM	4505	CB	HIS	746	14.110	-3.049	26.222	1.00	20.00	C
ATOM	4506	CG	HIS	746	13.533	-3.157	24.843	1.00	20.00	C
ATOM	4507	CD2	HIS	746	12.252	-3.292	24.420	1.00	20.00	C
ATOM	4508	ND1	HIS	746	14.304	-3.081	23.703	1.00	20.00	N
ATOM	4509	CE1	HIS	746	13.526	-3.162	22.640	1.00	20.00	C
ATOM	4510	NE2	HIS	746	12.277	-3.291	23.046	1.00	20.00	N
ATOM	4511	C	HIS	746	14.874	-0.689	25.923	1.00	20.00	C
ATOM	4512	OT1	HIS	746	14.282	0.168	25.250	1.00	20.00	O
ATOM	4513	OT2	HIS	746	16.098	-0.845	25.893	1.00	20.00	O
ATOM	4514	FE	HEM	748	-1.688	4.725	23.983	1.00	20.00	F
ATOM	4515	NA	HEM	748	-2.854	3.387	23.118	1.00	20.00	N
ATOM	4516	NB	HEM	748	-2.528	4.228	25.744	1.00	20.00	N
ATOM	4517	NC	HEM	748	-1.012	6.428	24.803	1.00	20.00	N
ATOM	4518	ND	HEM	748	-1.306	5.524	22.199	1.00	20.00	N
ATOM	4519	C1A	HEM	748	-2.989	3.123	21.770	1.00	20.00	C
ATOM	4520	CHA	HEM	748	-2.430	3.893	20.761	1.00	20.00	C
ATOM	4521	C4D	HEM	748	-1.694	5.053	20.963	1.00	20.00	C
ATOM	4522	C1B	HEM	748	-3.319	3.131	26.050	1.00	20.00	C
ATOM	4523	CHB	HEM	748	-3.944	2.344	25.091	1.00	20.00	C
ATOM	4524	C4A	HEM	748	-3.762	2.488	23.712	1.00	20.00	C
ATOM	4525	C1C	HEM	748	-1.067	6.795	26.126	1.00	20.00	C
ATOM	4526	CHC	HEM	748	-1.678	6.063	27.137	1.00	20.00	C
ATOM	4527	C4B	HEM	748	-2.341	4.854	26.983	1.00	20.00	C
ATOM	4528	C1D	HEM	748	-0.574	6.684	21.904	1.00	20.00	C
ATOM	4529	CHD	HEM	748	-0.117	7.607	22.837	1.00	20.00	C
ATOM	4530	C4C	HEM	748	-0.335	7.487	24.205	1.00	20.00	C
ATOM	4531	C2A	HEM	748	-4.015	2.101	21.549	1.00	20.00	C
ATOM	4532	CAA	HEM	748	-4.671	1.822	20.249	1.00	20.00	C
ATOM	4533	C3A	HEM	748	-4.464	1.660	22.707	1.00	20.00	C
ATOM	4534	CMA	HEM	748	-5.469	0.551	22.937	1.00	20.00	C
ATOM	4535	CBA	HEM	748	-3.935	0.742	19.511	1.00	20.00	C
ATOM	4536	CGA	HEM	748	-4.551	0.466	18.154	1.00	20.00	C
ATOM	4537	O1A	HEM	748	-5.734	0.843	17.949	1.00	20.00	O
ATOM	4538	O2A	HEM	748	-3.851	-0.116	17.295	1.00	20.00	O
ATOM	4539	C2B	HEM	748	-3.516	3.025	27.508	1.00	20.00	C
ATOM	4540	CMB	HEM	748	-4.301	1.923	28.222	1.00	20.00	C
ATOM	4541	C3B	HEM	748	-2.892	4.073	28.086	1.00	20.00	C
ATOM	4542	CAB	HEM	748	-2.663	4.303	29.468	1.00	20.00	C
ATOM	4543	CBB	HEM	748	-3.723	4.658	30.349	1.00	20.00	C
ATOM	4544	C2C	HEM	748	-0.394	8.072	26.368	1.00	20.00	C
ATOM	4545	CMC	HEM	748	-0.342	8.814	27.718	1.00	20.00	C
ATOM	4546	C3C	HEM	748	0.089	8.498	25.154	1.00	20.00	C
ATOM	4547	CAC	HEM	748	0.849	9.646	24.873	1.00	20.00	C
ATOM	4548	CBC	HEM	748	0.460	10.983	25.324	1.00	20.00	C
ATOM	4549	C2D	HEM	748	-0.460	6.906	20.473	1.00	20.00	C
ATOM	4550	CMD	HEM	748	0.394	7.968	19.773	1.00	20.00	C
ATOM	4551	C3D	HEM	748	-1.179	5.914	19.886	1.00	20.00	C
ATOM	4552	CAD	HEM	748	-1.348	5.760	18.384	1.00	20.00	C
ATOM	4553	CBD	HEM	748	-2.536	6.529	17.834	1.00	20.00	C
ATOM	4554	CGD	HEM	748	-2.582	6.492	16.314	1.00	20.00	C

ATOM	4555	01D	HEM	748	-2.268	7.521	15.679	1.00	20.00	0
ATOM	4556	02D	HEM	748	-2.909	5.424	15.755	1.00	20.00	0
ATOM	4557	C1	A05	801	14.563	19.628	37.028	0.50	20.00	
ATOM	4558	C2	A05	801	14.254	19.690	35.669	0.50	20.00	
ATOM	4559	C3	A05	801	13.433	20.707	35.186	0.50	20.00	
ATOM	4560	C4	A05	801	12.918	21.663	36.063	0.50	20.00	
ATOM	4561	C5	A05	801	13.230	21.602	37.421	0.50	20.00	
ATOM	4562	C6	A05	801	14.051	20.584	37.904	0.50	20.00	
ATOM	4563	C7	A05	801	14.389	20.518	39.388	0.50	20.00	
ATOM	4564	C8	A05	801	13.095	20.599	40.215	0.50	20.00	
ATOM	4565	C9	A05	801	12.622	19.209	40.539	0.50	20.00	
ATOM	4566	010	A05	801	13.327	18.278	41.015	0.50	20.00	
ATOM	4567	011	A05	801	11.406	19.011	40.281	0.50	20.00	
ATOM	4568	N12	A05	801	13.353	21.317	41.448	0.50	20.00	
ATOM	4569	C13	A05	801	14.592	21.797	41.654	0.50	20.00	
ATOM	4570	014	A05	801	15.164	22.521	40.856	0.50	20.00	
ATOM	4571	C15	A05	801	15.271	21.408	42.935	0.50	20.00	
ATOM	4572	C16	A05	801	16.796	21.367	42.716	0.50	20.00	
ATOM	4573	C17	A05	801	17.288	22.207	44.132	0.50	20.00	
ATOM	4574	C18	A05	801	16.169	23.078	44.748	0.50	20.00	
ATOM	4575	C19	A05	801	14.933	22.460	44.011	0.50	20.00	
ATOM	4576	020	A05	801	14.813	20.121	43.361	0.50	20.00	
ATOM	4577	C21	A05	801	15.711	19.138	42.959	0.50	20.00	
ATOM	4578	C22	A05	801	16.269	18.273	43.902	0.50	20.00	
ATOM	4579	C23	A05	801	17.181	17.298	43.500	0.50	20.00	
ATOM	4580	C24	A05	801	17.532	17.188	42.152	0.50	20.00	
ATOM	4581	C25	A05	801	16.925	18.019	41.207	0.50	20.00	
ATOM	4582	C26	A05	801	16.066	19.041	41.617	0.50	20.00	
ATOM	4583	C27	A05	801	18.494	16.094	41.703	0.50	20.00	
ATOM	4584	C28	A05	801	17.714	14.930	41.166	0.50	20.00	
ATOM	4585	029	A05	801	16.494	14.956	41.173	0.50	20.00	
ATOM	4586	N30	A05	801	18.421	13.893	40.678	0.50	20.00	
ATOM	4587	C31	A05	801	17.751	12.796	40.083	0.50	20.00	
ATOM	4588	C32	A05	801	18.488	11.762	39.506	0.50	20.00	
ATOM	4589	C33	A05	801	17.830	10.693	38.891	0.50	20.00	
ATOM	4590	C34	A05	801	16.439	10.621	38.931	0.50	20.00	
ATOM	4591	C35	A05	801	15.707	11.616	39.590	0.50	20.00	
ATOM	4592	C36	A05	801	16.363	12.688	40.207	0.50	20.00	
ATOM	4593	C37	A05	801	18.630	9.603	38.182	0.50	20.00	
ATOM	4594	C38	A05	801	14.185	11.527	39.635	0.50	20.00	
ATOM	4595	C1	A05	802	7.505	21.251	41.088	0.50	20.00	
ATOM	4596	C2	A05	802	7.736	21.656	42.403	0.50	20.00	
ATOM	4597	C3	A05	802	8.824	22.474	42.700	0.50	20.00	
ATOM	4598	C4	A05	802	9.684	22.888	41.682	0.50	20.00	
ATOM	4599	C5	A05	802	9.451	22.485	40.367	0.50	20.00	
ATOM	4600	C6	A05	802	8.362	21.666	40.071	0.50	20.00	
ATOM	4601	C7	A05	802	8.110	21.226	38.634	0.50	20.00	
ATOM	4602	C8	A05	802	9.400	20.636	38.041	0.50	20.00	
ATOM	4603	C9	A05	802	9.391	19.143	38.213	0.50	20.00	
ATOM	4604	010	A05	802	8.440	18.369	37.917	0.50	20.00	
ATOM	4605	011	A05	802	10.450	18.679	38.712	0.50	20.00	
ATOM	4606	N12	A05	802	9.474	20.956	36.629	0.50	20.00	
ATOM	4607	C13	A05	802	8.487	21.695	36.095	0.50	20.00	
ATOM	4608	014	A05	802	8.149	22.777	36.545	0.50	20.00	
ATOM	4609	C15	A05	802	7.792	21.135	34.886	0.50	20.00	
ATOM	4610	C16	A05	802	6.334	21.634	34.856	0.50	20.00	
ATOM	4611	C17	A05	802	6.241	22.074	33.197	0.50	20.00	

ATOM	4612	C18	A05	802	7.623	22.313	32.548	0.50	20.00
ATOM	4613	C19	A05	802	8.530	21.624	33.624	0.50	20.00
ATOM	4614	O20	A05	802	7.809	19.705	34.929	0.50	20.00
ATOM	4615	C21	A05	802	6.609	19.229	35.445	0.50	20.00
ATOM	4616	C22	A05	802	5.846	18.317	34.713	0.50	20.00
ATOM	4617	C23	A05	802	4.636	17.852	35.225	0.50	20.00
ATOM	4618	C24	A05	802	4.190	18.300	36.471	0.50	20.00
ATOM	4619	C25	A05	802	4.986	19.167	37.222	0.50	20.00
ATOM	4620	C26	A05	802	6.164	19.687	36.681	0.50	20.00
ATOM	4621	C27	A05	802	2.889	17.758	37.053	0.50	20.00
ATOM	4622	C28	A05	802	3.194	16.654	38.022	0.50	20.00
ATOM	4623	O29	A05	802	4.348	16.305	38.206	0.50	20.00
ATOM	4624	N30	A05	802	2.149	16.099	38.665	0.50	20.00
ATOM	4625	C31	A05	802	2.370	15.107	39.652	0.50	20.00
ATOM	4626	C32	A05	802	1.293	14.594	40.374	0.50	20.00
ATOM	4627	C33	A05	802	1.511	13.638	41.369	0.50	20.00
ATOM	4628	C34	A05	802	2.795	13.138	41.580	0.50	20.00
ATOM	4629	C35	A05	802	3.859	13.591	40.791	0.50	20.00
ATOM	4630	C36	A05	802	3.643	14.549	39.793	0.50	20.00
ATOM	4631	C37	A05	802	0.348	13.136	42.221	0.50	20.00
ATOM	4632	C38	A05	802	5.260	13.034	41.023	0.50	20.00

END