

REMARK	4 XXXX COMPLIES WITH FORMAT V. 2.0									
COMPND	W:\zeph\SINDHU\DLG FILES\wildtypedrug1\wiltypedrug1.pdbqt									
AUTHOR	GENERATED BY OPEN BABEL 2.3.1									
ATOM	1	N	VAL	1	48.530	80.949	9.152	1.00	0.00	N
ATOM	2	HN1	VAL	1	48.823	81.168	8.200	1.00	0.00	H
ATOM	3	HN2	VAL	1	47.541	81.149	9.300	1.00	0.00	H
ATOM	4	HN3	VAL	1	48.509	79.943	9.320	1.00	0.00	H
ATOM	5	CA	VAL	1	49.386	81.653	10.132	1.00	0.00	C
ATOM	6	CB	VAL	1	49.318	83.135	9.915	1.00	0.00	C
ATOM	7	CG1	VAL	1	49.927	83.445	8.539	1.00	0.00	C
ATOM	8	CG2	VAL	1	47.858	83.593	10.056	1.00	0.00	C
ATOM	9	C	VAL	1	48.958	81.333	11.523	1.00	0.00	C
ATOM	10	O	VAL	1	48.720	80.178	11.848	1.00	0.00	O
ATOM	11	N	SER	2	48.831	82.340	12.397	1.00	0.00	N
ATOM	12	HN	SER	2	48.981	83.306	12.105	1.00	0.00	H
ATOM	13	CA	SER	2	48.480	82.030	13.751	1.00	0.00	C
ATOM	14	CB	SER	2	48.330	83.276	14.640	1.00	0.00	C
ATOM	15	OG	SER	2	49.588	83.910	14.809	1.00	0.00	O
ATOM	16	HG	SER	2	49.495	84.680	15.358	1.00	0.00	H
ATOM	17	C	SER	2	47.160	81.328	13.769	1.00	0.00	C
ATOM	18	O	SER	2	46.984	80.353	14.498	1.00	0.00	O
ATOM	19	N	VAL	3	46.194	81.790	12.954	1.00	0.00	N
ATOM	20	HN	VAL	3	46.368	82.554	12.300	1.00	0.00	H
ATOM	21	CA	VAL	3	44.914	81.162	13.046	1.00	0.00	C
ATOM	22	CB	VAL	3	43.886	81.825	12.167	1.00	0.00	C
ATOM	23	CG1	VAL	3	43.610	83.221	12.748	1.00	0.00	C
ATOM	24	CG2	VAL	3	44.400	81.891	10.717	1.00	0.00	C
ATOM	25	C	VAL	3	44.990	79.700	12.725	1.00	0.00	C
ATOM	26	O	VAL	3	44.847	78.889	13.629	1.00	0.00	O
ATOM	27	N	PHE	4	45.238	79.311	11.456	1.00	0.00	N
ATOM	28	HN	PHE	4	45.400	80.018	10.739	1.00	0.00	H
ATOM	29	CA	PHE	4	45.278	77.916	11.094	1.00	0.00	C
ATOM	30	CB	PHE	4	45.187	77.698	9.573	1.00	0.00	C
ATOM	31	CG	PHE	4	45.238	76.228	9.327	1.00	0.00	C
ATOM	32	CD1	PHE	4	44.101	75.457	9.421	1.00	0.00	C
ATOM	33	CD2	PHE	4	46.427	75.619	8.998	1.00	0.00	C
ATOM	34	CE1	PHE	4	44.152	74.101	9.193	1.00	0.00	C
ATOM	35	CE2	PHE	4	46.484	74.264	8.769	1.00	0.00	C
ATOM	36	CZ	PHE	4	45.345	73.503	8.866	1.00	0.00	C
ATOM	37	C	PHE	4	46.538	77.255	11.557	1.00	0.00	C
ATOM	38	O	PHE	4	46.517	76.198	12.186	1.00	0.00	O
ATOM	39	N	SER	5	47.685	77.880	11.238	1.00	0.00	N
ATOM	40	HN	SER	5	47.635	78.790	10.779	1.00	0.00	H
ATOM	41	CA	SER	5	48.976	77.321	11.516	1.00	0.00	C
ATOM	42	CB	SER	5	50.128	78.067	10.820	1.00	0.00	C
ATOM	43	OG	SER	5	49.987	77.977	9.410	1.00	0.00	O
ATOM	44	HG	SER	5	50.698	78.438	8.980	1.00	0.00	H
ATOM	45	C	SER	5	49.273	77.278	12.978	1.00	0.00	C
ATOM	46	O	SER	5	49.662	76.228	13.474	1.00	0.00	O
ATOM	47	N	MET	6	49.094	78.387	13.724	1.00	0.00	N
ATOM	48	HN	MET	6	48.731	79.244	13.306	1.00	0.00	H
ATOM	49	CA	MET	6	49.426	78.334	15.121	1.00	0.00	C
ATOM	50	CB	MET	6	49.245	79.657	15.884	1.00	0.00	C
ATOM	51	CG	MET	6	50.195	79.777	17.081	1.00	0.00	C
ATOM	52	SD	MET	6	50.080	78.435	18.300	1.00	0.00	S
ATOM	53	CE	MET	6	51.691	78.778	19.065	1.00	0.00	C
ATOM	54	C	MET	6	48.478	77.329	15.668	1.00	0.00	C
ATOM	55	O	MET	6	48.809	76.549	16.559	1.00	0.00	O
ATOM	56	N	PHE	7	47.275	77.296	15.072	1.00	0.00	N
ATOM	57	HN	PHE	7	47.070	77.945	14.313	1.00	0.00	H
ATOM	58	CA	PHE	7	46.281	76.361	15.491	1.00	0.00	C
ATOM	59	CB	PHE	7	45.000	76.378	14.646	1.00	0.00	C
ATOM	60	CG	PHE	7	43.952	75.566	15.326	1.00	0.00	C
ATOM	61	CD1	PHE	7	43.864	74.210	15.115	1.00	0.00	C
ATOM	62	CD2	PHE	7	43.051	76.169	16.173	1.00	0.00	C
ATOM	63	CE1	PHE	7	42.895	73.463	15.742	1.00	0.00	C
ATOM	64	CE2	PHE	7	42.080	75.427	16.803	1.00	0.00	C
ATOM	65	CZ	PHE	7	41.999	74.072	16.587	1.00	0.00	C
ATOM	66	C	PHE	7	46.867	74.999	15.314	1.00	0.00	C
ATOM	67	O	PHE	7	46.685	74.140	16.173	1.00	0.00	O
ATOM	68	N	ARG	8	47.563	74.744	14.184	1.00	0.00	N
ATOM	69	HN	ARG	8	47.680	75.457	13.464	1.00	0.00	H
ATOM	70	CA	ARG	8	48.132	73.435	14.031	1.00	0.00	C
ATOM	71	CB	ARG	8	47.781	72.771	12.689	1.00	0.00	C

ATOM	72	CG	ARG	8	46.300	72.420	12.547	1.00	0.00	C
ATOM	73	CD	ARG	8	45.945	71.790	11.198	1.00	0.00	C
ATOM	74	NE	ARG	8	46.188	70.324	11.298	1.00	0.00	N
ATOM	75	HE	ARG	8	47.086	69.932	11.013	1.00	0.00	H
ATOM	76	CZ	ARG	8	45.203	69.508	11.773	1.00	0.00	C
ATOM	77	NH1	ARG	8	44.020	70.041	12.195	1.00	0.00	N
ATOM	78	1HH1	ARG	8	43.874	71.050	12.155	1.00	0.00	H
ATOM	79	2HH1	ARG	8	43.284	69.431	12.550	1.00	0.00	H
ATOM	80	NH2	ARG	8	45.398	68.158	11.826	1.00	0.00	N
ATOM	81	1HH2	ARG	8	46.282	67.760	11.511	1.00	0.00	H
ATOM	82	2HH2	ARG	8	44.662	67.548	12.181	1.00	0.00	H
ATOM	83	C	ARG	8	49.620	73.571	14.057	1.00	0.00	C
ATOM	84	O	ARG	8	50.264	73.565	13.010	1.00	0.00	O
ATOM	85	N	TYR	9	50.214	73.647	15.263	1.00	0.00	N
ATOM	86	HN	TYR	9	49.650	73.582	16.110	1.00	0.00	H
ATOM	87	CA	TYR	9	51.634	73.819	15.366	1.00	0.00	C
ATOM	88	CB	TYR	9	52.062	75.087	16.126	1.00	0.00	C
ATOM	89	CG	TYR	9	51.872	74.862	17.586	1.00	0.00	C
ATOM	90	CD1	TYR	9	50.618	74.703	18.126	1.00	0.00	C
ATOM	91	CD2	TYR	9	52.966	74.839	18.420	1.00	0.00	C
ATOM	92	CE1	TYR	9	50.462	74.506	19.478	1.00	0.00	C
ATOM	93	CE2	TYR	9	52.816	74.643	19.772	1.00	0.00	C
ATOM	94	CZ	TYR	9	51.561	74.474	20.303	1.00	0.00	C
ATOM	95	OH	TYR	9	51.400	74.273	21.690	1.00	0.00	O
ATOM	96	HH	TYR	9	52.160	74.251	22.260	1.00	0.00	H
ATOM	97	C	TYR	9	52.125	72.641	16.154	1.00	0.00	C
ATOM	98	O	TYR	9	51.386	71.678	16.352	1.00	0.00	O
ATOM	99	N	SER	10	53.403	72.668	16.581	1.00	0.00	N
ATOM	100	HN	SER	10	53.982	73.459	16.300	1.00	0.00	H
ATOM	101	CA	SER	10	54.007	71.651	17.410	1.00	0.00	C
ATOM	102	CB	SER	10	53.531	71.702	18.874	1.00	0.00	C
ATOM	103	OG	SER	10	54.162	70.678	19.629	1.00	0.00	O
ATOM	104	HG	SER	10	53.868	70.709	20.532	1.00	0.00	H
ATOM	105	C	SER	10	53.812	70.233	16.921	1.00	0.00	C
ATOM	106	O	SER	10	53.029	69.501	17.521	1.00	0.00	O
ATOM	107	N	ASN	11	54.479	69.785	15.820	1.00	0.00	N
ATOM	108	HN	ASN	11	55.082	70.396	15.269	1.00	0.00	H
ATOM	109	CA	ASN	11	54.281	68.388	15.477	1.00	0.00	C
ATOM	110	CB	ASN	11	53.017	68.158	14.614	1.00	0.00	C
ATOM	111	CG	ASN	11	51.730	68.628	15.286	1.00	0.00	C
ATOM	112	OD1	ASN	11	51.141	69.626	14.875	1.00	0.00	O
ATOM	113	ND2	ASN	11	51.263	67.898	16.335	1.00	0.00	N
ATOM	114	1HD2	ASN	11	51.752	67.070	16.676	1.00	0.00	H
ATOM	115	2HD2	ASN	11	50.403	68.212	16.784	1.00	0.00	H
ATOM	116	C	ASN	11	55.365	67.852	14.566	1.00	0.00	C
ATOM	117	O	ASN	11	55.195	67.909	13.349	1.00	0.00	O
ATOM	118	N	TRP	12	56.507	67.324	15.070	1.00	0.00	N
ATOM	119	HN	TRP	12	56.718	67.346	16.068	1.00	0.00	H
ATOM	120	CA	TRP	12	57.407	66.728	14.110	1.00	0.00	C
ATOM	121	CB	TRP	12	58.802	66.444	14.702	1.00	0.00	C
ATOM	122	CG	TRP	12	59.798	65.861	13.724	1.00	0.00	C
ATOM	123	CD2	TRP	12	61.223	65.899	13.913	1.00	0.00	C
ATOM	124	CD1	TRP	12	59.585	65.238	12.529	1.00	0.00	C
ATOM	125	NE1	TRP	12	60.788	64.887	11.960	1.00	0.00	N
ATOM	126	HE1	TRP	12	60.908	64.410	11.066	1.00	0.00	H
ATOM	127	CE2	TRP	12	61.805	65.289	12.801	1.00	0.00	C
ATOM	128	CE3	TRP	12	61.984	66.406	14.928	1.00	0.00	C
ATOM	129	CZ2	TRP	12	63.162	65.176	12.687	1.00	0.00	C
ATOM	130	CZ3	TRP	12	63.351	66.287	14.813	1.00	0.00	C
ATOM	131	CH2	TRP	12	63.928	65.684	13.715	1.00	0.00	C
ATOM	132	C	TRP	12	56.843	65.427	13.605	1.00	0.00	C
ATOM	133	O	TRP	12	56.237	65.351	12.537	1.00	0.00	O
ATOM	134	N	LEU	13	56.926	64.385	14.458	1.00	0.00	N
ATOM	135	HN	LEU	13	57.330	64.553	15.379	1.00	0.00	H
ATOM	136	CA	LEU	13	56.482	63.054	14.152	1.00	0.00	C
ATOM	137	CB	LEU	13	56.765	62.046	15.278	1.00	0.00	C
ATOM	138	CG	LEU	13	58.261	61.829	15.555	1.00	0.00	C
ATOM	139	CD1	LEU	13	58.966	61.216	14.336	1.00	0.00	C
ATOM	140	CD2	LEU	13	58.933	63.115	16.061	1.00	0.00	C
ATOM	141	C	LEU	13	55.007	63.142	14.019	1.00	0.00	C
ATOM	142	O	LEU	13	54.365	62.311	13.378	1.00	0.00	O
ATOM	143	N	ASP	14	54.428	64.126	14.723	1.00	0.00	N
ATOM	144	HN	ASP	14	55.006	64.754	15.281	1.00	0.00	H
ATOM	145	CA	ASP	14	53.010	64.305	14.700	1.00	0.00	C

ATOM	146	CB	ASP	14	52.538	65.438	15.623	1.00	0.00	C
ATOM	147	CG	ASP	14	52.745	65.043	17.077	1.00	0.00	C
ATOM	148	OD1	ASP	14	52.886	63.821	17.344	1.00	0.00	O
ATOM	149	OD2	ASP	14	52.765	65.962	17.940	1.00	0.00	O
ATOM	150	C	ASP	14	52.563	64.656	13.311	1.00	0.00	C
ATOM	151	O	ASP	14	51.714	63.982	12.731	1.00	0.00	O
ATOM	152	N	LYS	15	53.188	65.682	12.703	1.00	0.00	N
ATOM	153	HN	LYS	15	53.973	66.142	13.165	1.00	0.00	H
ATOM	154	CA	LYS	15	52.758	66.135	11.408	1.00	0.00	C
ATOM	155	CB	LYS	15	53.648	67.254	10.845	1.00	0.00	C
ATOM	156	CG	LYS	15	53.210	67.752	9.466	1.00	0.00	C
ATOM	157	CD	LYS	15	53.960	69.003	9.006	1.00	0.00	C
ATOM	158	CE	LYS	15	55.436	68.739	8.701	1.00	0.00	C
ATOM	159	NZ	LYS	15	56.092	69.979	8.230	1.00	0.00	N
ATOM	160	HZ1	LYS	15	57.076	69.803	8.027	1.00	0.00	H
ATOM	161	HZ2	LYS	15	55.971	70.748	8.890	1.00	0.00	H
ATOM	162	HZ3	LYS	15	55.606	70.387	7.432	1.00	0.00	H
ATOM	163	C	LYS	15	52.852	64.991	10.445	1.00	0.00	C
ATOM	164	O	LYS	15	51.984	64.817	9.590	1.00	0.00	O
ATOM	165	N	LEU	16	53.920	64.182	10.548	1.00	0.00	N
ATOM	166	HN	LEU	16	54.622	64.353	11.268	1.00	0.00	H
ATOM	167	CA	LEU	16	54.072	63.077	9.644	1.00	0.00	C
ATOM	168	CB	LEU	16	55.394	62.311	9.826	1.00	0.00	C
ATOM	169	CG	LEU	16	56.638	63.058	9.309	1.00	0.00	C
ATOM	170	CD1	LEU	16	56.874	64.376	10.057	1.00	0.00	C
ATOM	171	CD2	LEU	16	57.871	62.142	9.320	1.00	0.00	C
ATOM	172	C	LEU	16	52.973	62.090	9.839	1.00	0.00	C
ATOM	173	O	LEU	16	52.373	61.619	8.875	1.00	0.00	O
ATOM	174	N	TYR	17	52.654	61.756	11.098	1.00	0.00	N
ATOM	175	HN	TYR	17	53.117	62.192	11.895	1.00	0.00	H
ATOM	176	CA	TYR	17	51.640	60.765	11.279	1.00	0.00	C
ATOM	177	CB	TYR	17	51.371	60.350	12.733	1.00	0.00	C
ATOM	178	CG	TYR	17	50.401	59.234	12.561	1.00	0.00	C
ATOM	179	CD1	TYR	17	50.860	58.002	12.158	1.00	0.00	C
ATOM	180	CD2	TYR	17	49.055	59.408	12.783	1.00	0.00	C
ATOM	181	CE1	TYR	17	49.992	56.956	11.972	1.00	0.00	C
ATOM	182	CE2	TYR	17	48.179	58.363	12.599	1.00	0.00	C
ATOM	183	CZ	TYR	17	48.651	57.138	12.192	1.00	0.00	C
ATOM	184	OH	TYR	17	47.763	56.060	11.995	1.00	0.00	O
ATOM	185	HH	TYR	17	48.089	55.213	11.714	1.00	0.00	H
ATOM	186	C	TYR	17	50.372	61.327	10.732	1.00	0.00	C
ATOM	187	O	TYR	17	49.542	60.602	10.188	1.00	0.00	O
ATOM	188	N	MET	18	50.174	62.648	10.879	1.00	0.00	N
ATOM	189	HN	MET	18	50.880	63.243	11.312	1.00	0.00	H
ATOM	190	CA	MET	18	48.939	63.190	10.407	1.00	0.00	C
ATOM	191	CB	MET	18	48.814	64.712	10.585	1.00	0.00	C
ATOM	192	CG	MET	18	48.423	65.165	11.990	1.00	0.00	C
ATOM	193	SD	MET	18	48.284	66.971	12.166	1.00	0.00	S
ATOM	194	CE	MET	18	47.231	66.919	13.646	1.00	0.00	C
ATOM	195	C	MET	18	48.777	62.938	8.940	1.00	0.00	C
ATOM	196	O	MET	18	47.756	62.404	8.508	1.00	0.00	O
ATOM	197	N	VAL	19	49.804	63.249	8.134	1.00	0.00	N
ATOM	198	HN	VAL	19	50.689	63.567	8.530	1.00	0.00	H
ATOM	199	CA	VAL	19	49.650	63.132	6.715	1.00	0.00	C
ATOM	200	CB	VAL	19	50.886	63.517	5.960	1.00	0.00	C
ATOM	201	CG1	VAL	19	50.650	63.251	4.463	1.00	0.00	C
ATOM	202	CG2	VAL	19	51.220	64.982	6.286	1.00	0.00	C
ATOM	203	C	VAL	19	49.340	61.713	6.369	1.00	0.00	C
ATOM	204	O	VAL	19	48.541	61.456	5.467	1.00	0.00	O
ATOM	205	N	VAL	20	49.967	60.746	7.064	1.00	0.00	N
ATOM	206	HN	VAL	20	50.593	60.975	7.836	1.00	0.00	H
ATOM	207	CA	VAL	20	49.728	59.384	6.686	1.00	0.00	C
ATOM	208	CB	VAL	20	50.550	58.364	7.437	1.00	0.00	C
ATOM	209	CG1	VAL	20	52.028	58.715	7.239	1.00	0.00	C
ATOM	210	CG2	VAL	20	50.120	58.256	8.906	1.00	0.00	C
ATOM	211	C	VAL	20	48.279	59.047	6.867	1.00	0.00	C
ATOM	212	O	VAL	20	47.643	58.514	5.959	1.00	0.00	O
ATOM	213	N	GLY	21	47.701	59.405	8.028	1.00	0.00	N
ATOM	214	HN	GLY	21	48.240	59.945	8.705	1.00	0.00	H
ATOM	215	CA	GLY	21	46.346	59.047	8.340	1.00	0.00	C
ATOM	216	C	GLY	21	45.429	59.657	7.337	1.00	0.00	C
ATOM	217	O	GLY	21	44.418	59.061	6.964	1.00	0.00	O
ATOM	218	N	THR	22	45.750	60.878	6.880	1.00	0.00	N
ATOM	219	HN	THR	22	46.604	61.338	7.197	1.00	0.00	H

ATOM	220	CA	THR	22	44.886	61.528	5.946	1.00	0.00	C
ATOM	221	CB	THR	22	45.421	62.849	5.478	1.00	0.00	C
ATOM	222	OG1	THR	22	45.640	63.706	6.590	1.00	0.00	O
ATOM	223	HG1	THR	22	45.979	64.543	6.294	1.00	0.00	H
ATOM	224	CG2	THR	22	44.392	63.480	4.524	1.00	0.00	C
ATOM	225	C	THR	22	44.779	60.631	4.755	1.00	0.00	C
ATOM	226	O	THR	22	43.682	60.355	4.274	1.00	0.00	O
ATOM	227	N	LEU	23	45.915	60.069	4.309	1.00	0.00	N
ATOM	228	HN	LEU	23	46.782	60.210	4.828	1.00	0.00	H
ATOM	229	CA	LEU	23	45.928	59.275	3.116	1.00	0.00	C
ATOM	230	CB	LEU	23	47.329	58.695	2.821	1.00	0.00	C
ATOM	231	CG	LEU	23	47.535	58.050	1.428	1.00	0.00	C
ATOM	232	CD1	LEU	23	48.973	57.523	1.295	1.00	0.00	C
ATOM	233	CD2	LEU	23	46.498	56.968	1.081	1.00	0.00	C
ATOM	234	C	LEU	23	44.971	58.136	3.295	1.00	0.00	C
ATOM	235	O	LEU	23	44.185	57.844	2.394	1.00	0.00	O
ATOM	236	N	ALA	24	44.976	57.494	4.477	1.00	0.00	N
ATOM	237	HN	ALA	24	45.587	57.817	5.227	1.00	0.00	H
ATOM	238	CA	ALA	24	44.126	56.356	4.689	1.00	0.00	C
ATOM	239	CB	ALA	24	44.206	55.810	6.125	1.00	0.00	C
ATOM	240	C	ALA	24	42.721	56.803	4.456	1.00	0.00	C
ATOM	241	O	ALA	24	41.919	56.087	3.858	1.00	0.00	O
ATOM	242	N	ALA	25	42.400	58.030	4.895	1.00	0.00	N
ATOM	243	HN	ALA	25	43.106	58.611	5.347	1.00	0.00	H
ATOM	244	CA	ALA	25	41.067	58.523	4.729	1.00	0.00	C
ATOM	245	CB	ALA	25	40.899	59.959	5.250	1.00	0.00	C
ATOM	246	C	ALA	25	40.748	58.542	3.265	1.00	0.00	C
ATOM	247	O	ALA	25	39.662	58.138	2.850	1.00	0.00	O
ATOM	248	N	ILE	26	41.715	58.967	2.433	1.00	0.00	N
ATOM	249	HN	ILE	26	42.645	59.174	2.798	1.00	0.00	H
ATOM	250	CA	ILE	26	41.444	59.131	1.034	1.00	0.00	C
ATOM	251	CB	ILE	26	42.682	59.502	0.273	1.00	0.00	C
ATOM	252	CG1	ILE	26	43.358	60.727	0.908	1.00	0.00	C
ATOM	253	CG2	ILE	26	42.300	59.676	-1.205	1.00	0.00	C
ATOM	254	CD1	ILE	26	42.423	61.911	1.086	1.00	0.00	C
ATOM	255	C	ILE	26	41.005	57.818	0.459	1.00	0.00	C
ATOM	256	O	ILE	26	39.921	57.702	-0.109	1.00	0.00	O
ATOM	257	N	ILE	27	41.801	56.766	0.691	1.00	0.00	N
ATOM	258	HN	ILE	27	42.597	56.888	1.317	1.00	0.00	H
ATOM	259	CA	ILE	27	41.589	55.475	0.101	1.00	0.00	C
ATOM	260	CB	ILE	27	42.560	54.482	0.649	1.00	0.00	C
ATOM	261	CG1	ILE	27	43.996	54.939	0.382	1.00	0.00	C
ATOM	262	CG2	ILE	27	42.222	53.116	0.048	1.00	0.00	C
ATOM	263	CD1	ILE	27	44.306	55.092	-1.102	1.00	0.00	C
ATOM	264	C	ILE	27	40.239	54.979	0.500	1.00	0.00	C
ATOM	265	O	ILE	27	39.511	54.393	-0.300	1.00	0.00	O
ATOM	266	N	HIS	28	39.881	55.204	1.771	1.00	0.00	N
ATOM	267	HN	HIS	28	40.511	55.740	2.368	1.00	0.00	H
ATOM	268	CA	HIS	28	38.651	54.724	2.328	1.00	0.00	C
ATOM	269	ND1	HIS	28	37.017	53.233	4.573	1.00	0.00	N
ATOM	270	HD1	HIS	28	37.457	52.476	4.050	1.00	0.00	H
ATOM	271	CG	HIS	28	37.390	54.558	4.570	1.00	0.00	C
ATOM	272	CB	HIS	28	38.555	55.119	3.813	1.00	0.00	C
ATOM	273	NE2	HIS	28	35.616	54.290	5.939	1.00	0.00	N
ATOM	274	HE2	HIS	28	34.857	54.482	6.593	1.00	0.00	H
ATOM	275	CD2	HIS	28	36.525	55.187	5.411	1.00	0.00	C
ATOM	276	CE1	HIS	28	35.951	53.129	5.407	1.00	0.00	C
ATOM	277	C	HIS	28	37.467	55.285	1.579	1.00	0.00	C
ATOM	278	O	HIS	28	36.549	54.543	1.225	1.00	0.00	O
ATOM	279	N	GLY	29	37.459	56.606	1.294	1.00	0.00	N
ATOM	280	HN	GLY	29	38.257	57.187	1.552	1.00	0.00	H
ATOM	281	CA	GLY	29	36.325	57.196	0.626	1.00	0.00	C
ATOM	282	C	GLY	29	36.186	56.546	-0.699	1.00	0.00	C
ATOM	283	O	GLY	29	35.087	56.213	-1.137	1.00	0.00	O
ATOM	284	N	ALA	30	37.327	56.310	-1.355	1.00	0.00	N
ATOM	285	HN	ALA	30	38.215	56.561	-0.920	1.00	0.00	H
ATOM	286	CA	ALA	30	37.327	55.714	-2.652	1.00	0.00	C
ATOM	287	CB	ALA	30	38.746	55.462	-3.187	1.00	0.00	C
ATOM	288	C	ALA	30	36.645	54.388	-2.522	1.00	0.00	C
ATOM	289	O	ALA	30	35.979	53.926	-3.448	1.00	0.00	O
ATOM	290	N	GLY	31	36.789	53.731	-1.359	1.00	0.00	N
ATOM	291	HN	GLY	31	37.302	54.161	-0.590	1.00	0.00	H
ATOM	292	CA	GLY	31	36.220	52.424	-1.201	1.00	0.00	C
ATOM	293	C	GLY	31	34.730	52.461	-1.423	1.00	0.00	C

ATOM	294	O	GLY	31	34.187	51.609	-2.123	1.00	0.00	O
ATOM	295	N	LEU	32	34.015	53.459	-0.871	1.00	0.00	N
ATOM	296	HN	LEU	32	34.488	54.221	-0.385	1.00	0.00	H
ATOM	297	CA	LEU	32	32.577	53.444	-0.971	1.00	0.00	C
ATOM	298	CB	LEU	32	31.908	54.589	-0.199	1.00	0.00	C
ATOM	299	CG	LEU	32	32.096	54.451	1.322	1.00	0.00	C
ATOM	300	CD1	LEU	32	31.382	55.579	2.070	1.00	0.00	C
ATOM	301	CD2	LEU	32	31.683	53.056	1.815	1.00	0.00	C
ATOM	302	C	LEU	32	32.102	53.489	-2.395	1.00	0.00	C
ATOM	303	O	LEU	32	31.203	52.731	-2.755	1.00	0.00	O
ATOM	304	N	PRO	33	32.609	54.344	-3.233	1.00	0.00	N
ATOM	305	CA	PRO	33	32.163	54.308	-4.598	1.00	0.00	C
ATOM	306	CD	PRO	33	32.920	55.695	-2.832	1.00	0.00	C
ATOM	307	CB	PRO	33	32.625	55.620	-5.225	1.00	0.00	C
ATOM	308	CG	PRO	33	33.454	56.315	-4.126	1.00	0.00	C
ATOM	309	C	PRO	33	32.612	53.113	-5.361	1.00	0.00	C
ATOM	310	O	PRO	33	31.887	52.668	-6.250	1.00	0.00	O
ATOM	311	N	LEU	34	33.801	52.577	-5.044	1.00	0.00	N
ATOM	312	HN	LEU	34	34.363	52.971	-4.289	1.00	0.00	H
ATOM	313	CA	LEU	34	34.266	51.443	-5.784	1.00	0.00	C
ATOM	314	CB	LEU	34	35.623	50.916	-5.292	1.00	0.00	C
ATOM	315	CG	LEU	34	36.780	51.914	-5.477	1.00	0.00	C
ATOM	316	CD1	LEU	34	38.103	51.324	-4.967	1.00	0.00	C
ATOM	317	CD2	LEU	34	36.868	52.413	-6.929	1.00	0.00	C
ATOM	318	C	LEU	34	33.263	50.383	-5.525	1.00	0.00	C
ATOM	319	O	LEU	34	32.838	49.665	-6.430	1.00	0.00	O
ATOM	320	N	MET	35	32.801	50.327	-4.266	1.00	0.00	N
ATOM	321	HN	MET	35	33.126	51.004	-3.576	1.00	0.00	H
ATOM	322	CA	MET	35	31.861	49.328	-3.889	1.00	0.00	C
ATOM	323	CB	MET	35	31.404	49.413	-2.425	1.00	0.00	C
ATOM	324	CG	MET	35	32.515	49.063	-1.438	1.00	0.00	C
ATOM	325	SD	MET	35	31.927	48.595	0.215	1.00	0.00	S
ATOM	326	CE	MET	35	31.356	46.948	-0.295	1.00	0.00	C
ATOM	327	C	MET	35	30.658	49.499	-4.754	1.00	0.00	C
ATOM	328	O	MET	35	30.009	48.518	-5.112	1.00	0.00	O
ATOM	329	N	MET	36	30.311	50.750	-5.104	1.00	0.00	N
ATOM	330	HN	MET	36	30.865	51.552	-4.804	1.00	0.00	H
ATOM	331	CA	MET	36	29.140	50.922	-5.911	1.00	0.00	C
ATOM	332	CB	MET	36	28.842	52.398	-6.215	1.00	0.00	C
ATOM	333	CG	MET	36	27.391	52.647	-6.625	1.00	0.00	C
ATOM	334	SD	MET	36	26.207	52.540	-5.246	1.00	0.00	S
ATOM	335	CE	MET	36	26.348	50.747	-4.988	1.00	0.00	C
ATOM	336	C	MET	36	29.329	50.210	-7.220	1.00	0.00	C
ATOM	337	O	MET	36	28.519	49.364	-7.598	1.00	0.00	O
ATOM	338	N	LEU	37	30.468	50.450	-7.897	1.00	0.00	N
ATOM	339	HN	LEU	37	31.207	51.010	-7.472	1.00	0.00	H
ATOM	340	CA	LEU	37	30.640	49.916	-9.218	1.00	0.00	C
ATOM	341	CB	LEU	37	31.982	50.319	-9.859	1.00	0.00	C
ATOM	342	CG	LEU	37	32.102	49.994	-11.366	1.00	0.00	C
ATOM	343	CD1	LEU	37	32.145	48.486	-11.655	1.00	0.00	C
ATOM	344	CD2	LEU	37	31.008	50.715	-12.170	1.00	0.00	C
ATOM	345	C	LEU	37	30.562	48.418	-9.178	1.00	0.00	C
ATOM	346	O	LEU	37	29.909	47.810	-10.025	1.00	0.00	O
ATOM	347	N	VAL	38	31.196	47.777	-8.179	1.00	0.00	N
ATOM	348	HN	VAL	38	31.678	48.314	-7.458	1.00	0.00	H
ATOM	349	CA	VAL	38	31.199	46.341	-8.120	1.00	0.00	C
ATOM	350	CB	VAL	38	31.886	45.807	-6.899	1.00	0.00	C
ATOM	351	CG1	VAL	38	31.733	44.276	-6.889	1.00	0.00	C
ATOM	352	CG2	VAL	38	33.345	46.294	-6.896	1.00	0.00	C
ATOM	353	C	VAL	38	29.784	45.893	-8.045	1.00	0.00	C
ATOM	354	O	VAL	38	29.396	44.900	-8.658	1.00	0.00	O
ATOM	355	N	PHE	39	28.963	46.648	-7.303	1.00	0.00	N
ATOM	356	HN	PHE	39	29.331	47.479	-6.840	1.00	0.00	H
ATOM	357	CA	PHE	39	27.583	46.313	-7.147	1.00	0.00	C
ATOM	358	CB	PHE	39	26.844	47.394	-6.335	1.00	0.00	C
ATOM	359	CG	PHE	39	25.370	47.184	-6.393	1.00	0.00	C
ATOM	360	CD1	PHE	39	24.737	46.321	-5.529	1.00	0.00	C
ATOM	361	CD2	PHE	39	24.620	47.868	-7.323	1.00	0.00	C
ATOM	362	CE1	PHE	39	23.374	46.144	-5.597	1.00	0.00	C
ATOM	363	CE2	PHE	39	23.258	47.696	-7.396	1.00	0.00	C
ATOM	364	CZ	PHE	39	22.634	46.832	-6.529	1.00	0.00	C
ATOM	365	C	PHE	39	27.013	46.242	-8.525	1.00	0.00	C
ATOM	366	O	PHE	39	26.186	45.382	-8.820	1.00	0.00	O
ATOM	367	N	GLY	40	27.439	47.159	-9.411	1.00	0.00	N

ATOM	368	HN	GLY	40	28.136	47.850	-9.134	1.00	0.00	H
ATOM	369	CA	GLY	40	26.914	47.166	-10.744	1.00	0.00	C
ATOM	370	C	GLY	40	27.277	45.930	-11.521	1.00	0.00	C
ATOM	371	O	GLY	40	26.408	45.280	-12.097	1.00	0.00	O
ATOM	372	N	GLU	41	28.564	45.538	-11.532	1.00	0.00	N
ATOM	373	HN	GLU	41	29.242	46.023	-10.945	1.00	0.00	H
ATOM	374	CA	GLU	41	28.997	44.443	-12.362	1.00	0.00	C
ATOM	375	CB	GLU	41	30.519	44.224	-12.314	1.00	0.00	C
ATOM	376	CG	GLU	41	31.302	45.404	-12.898	1.00	0.00	C
ATOM	377	CD	GLU	41	32.784	45.058	-12.891	1.00	0.00	C
ATOM	378	OE1	GLU	41	33.146	44.021	-13.507	1.00	0.00	O
ATOM	379	OE2	GLU	41	33.573	45.825	-12.276	1.00	0.00	O
ATOM	380	C	GLU	41	28.319	43.187	-11.928	1.00	0.00	C
ATOM	381	O	GLU	41	27.971	42.334	-12.746	1.00	0.00	O
ATOM	382	N	MET	42	28.129	43.022	-10.611	1.00	0.00	N
ATOM	383	HN	MET	42	28.451	43.725	-9.946	1.00	0.00	H
ATOM	384	CA	MET	42	27.465	41.840	-10.159	1.00	0.00	C
ATOM	385	CB	MET	42	27.397	41.726	-8.625	1.00	0.00	C
ATOM	386	CG	MET	42	26.552	42.806	-7.948	1.00	0.00	C
ATOM	387	SD	MET	42	26.461	42.666	-6.135	1.00	0.00	S
ATOM	388	CE	MET	42	28.177	43.175	-5.827	1.00	0.00	C
ATOM	389	C	MET	42	26.068	41.893	-10.690	1.00	0.00	C
ATOM	390	O	MET	42	25.511	40.884	-11.116	1.00	0.00	O
ATOM	391	N	THR	43	25.477	43.101	-10.692	1.00	0.00	N
ATOM	392	HN	THR	43	26.013	43.906	-10.369	1.00	0.00	H
ATOM	393	CA	THR	43	24.128	43.307	-11.128	1.00	0.00	C
ATOM	394	CB	THR	43	23.676	44.730	-10.946	1.00	0.00	C
ATOM	395	OG1	THR	43	23.736	45.093	-9.574	1.00	0.00	O
ATOM	396	HG1	THR	43	23.451	45.992	-9.459	1.00	0.00	H
ATOM	397	CG2	THR	43	22.238	44.874	-11.471	1.00	0.00	C
ATOM	398	C	THR	43	23.994	42.986	-12.586	1.00	0.00	C
ATOM	399	O	THR	43	22.978	42.438	-13.010	1.00	0.00	O
ATOM	400	N	ASP	44	25.004	43.344	-13.399	1.00	0.00	N
ATOM	401	HN	ASP	44	25.849	43.751	-12.998	1.00	0.00	H
ATOM	402	CA	ASP	44	24.914	43.164	-14.820	1.00	0.00	C
ATOM	403	CB	ASP	44	26.116	43.805	-15.540	1.00	0.00	C
ATOM	404	CG	ASP	44	25.670	44.289	-16.913	1.00	0.00	C
ATOM	405	OD1	ASP	44	24.602	43.829	-17.397	1.00	0.00	O
ATOM	406	OD2	ASP	44	26.385	45.153	-17.487	1.00	0.00	O
ATOM	407	C	ASP	44	24.855	41.696	-15.145	1.00	0.00	C
ATOM	408	O	ASP	44	24.025	41.250	-15.936	1.00	0.00	O
ATOM	409	N	ILE	45	25.708	40.886	-14.494	1.00	0.00	N
ATOM	410	HN	ILE	45	26.348	41.280	-13.804	1.00	0.00	H
ATOM	411	CA	ILE	45	25.731	39.474	-14.757	1.00	0.00	C
ATOM	412	CB	ILE	45	26.723	38.731	-13.910	1.00	0.00	C
ATOM	413	CG1	ILE	45	28.150	39.232	-14.186	1.00	0.00	C
ATOM	414	CG2	ILE	45	26.539	37.228	-14.178	1.00	0.00	C
ATOM	415	CD1	ILE	45	29.181	38.722	-13.181	1.00	0.00	C
ATOM	416	C	ILE	45	24.367	38.968	-14.406	1.00	0.00	C
ATOM	417	O	ILE	45	23.837	38.046	-15.026	1.00	0.00	O
ATOM	418	N	PHE	46	23.783	39.583	-13.365	1.00	0.00	N
ATOM	419	HN	PHE	46	24.289	40.357	-12.934	1.00	0.00	H
ATOM	420	CA	PHE	46	22.506	39.240	-12.811	1.00	0.00	C
ATOM	421	CB	PHE	46	22.179	40.136	-11.601	1.00	0.00	C
ATOM	422	CG	PHE	46	21.060	39.546	-10.814	1.00	0.00	C
ATOM	423	CD1	PHE	46	21.304	38.487	-9.970	1.00	0.00	C
ATOM	424	CD2	PHE	46	19.783	40.055	-10.887	1.00	0.00	C
ATOM	425	CE1	PHE	46	20.293	37.930	-9.225	1.00	0.00	C
ATOM	426	CE2	PHE	46	18.765	39.503	-10.144	1.00	0.00	C
ATOM	427	CZ	PHE	46	19.019	38.438	-9.313	1.00	0.00	C
ATOM	428	C	PHE	46	21.440	39.444	-13.851	1.00	0.00	C
ATOM	429	O	PHE	46	20.485	38.670	-13.944	1.00	0.00	O
ATOM	430	N	ALA	47	21.546	40.539	-14.624	1.00	0.00	N
ATOM	431	HN	ALA	47	22.329	41.177	-14.481	1.00	0.00	H
ATOM	432	CA	ALA	47	20.583	40.828	-15.644	1.00	0.00	C
ATOM	433	CB	ALA	47	20.822	42.195	-16.308	1.00	0.00	C
ATOM	434	C	ALA	47	20.649	39.796	-16.724	1.00	0.00	C
ATOM	435	O	ALA	47	19.616	39.291	-17.153	1.00	0.00	O
ATOM	436	N	ASN	48	21.866	39.425	-17.167	1.00	0.00	N
ATOM	437	HN	ASN	48	22.698	39.798	-16.710	1.00	0.00	H
ATOM	438	CA	ASN	48	22.018	38.514	-18.271	1.00	0.00	C
ATOM	439	CB	ASN	48	23.492	38.263	-18.634	1.00	0.00	C
ATOM	440	CG	ASN	48	24.051	39.550	-19.227	1.00	0.00	C
ATOM	441	OD1	ASN	48	23.308	40.383	-19.745	1.00	0.00	O

ATOM	442	ND2	ASN	48	25.398	39.718	-19.153	1.00	0.00	N
ATOM	443	1HD2	ASN	48	25.772	40.580	-19.550	1.00	0.00	H
ATOM	444	2HD2	ASN	48	26.014	39.028	-18.724	1.00	0.00	H
ATOM	445	C	ASN	48	21.396	37.202	-17.915	1.00	0.00	C
ATOM	446	O	ASN	48	20.696	36.596	-18.724	1.00	0.00	O
ATOM	447	N	ALA	49	21.635	36.726	-16.682	1.00	0.00	N
ATOM	448	HN	ALA	49	22.217	37.260	-16.036	1.00	0.00	H
ATOM	449	CA	ALA	49	21.078	35.475	-16.269	1.00	0.00	C
ATOM	450	CB	ALA	49	21.513	35.079	-14.848	1.00	0.00	C
ATOM	451	C	ALA	49	19.586	35.598	-16.269	1.00	0.00	C
ATOM	452	O	ALA	49	18.860	34.685	-16.659	1.00	0.00	O
ATOM	453	N	GLY	50	19.084	36.748	-15.801	1.00	0.00	N
ATOM	454	HN	GLY	50	19.725	37.472	-15.476	1.00	0.00	H
ATOM	455	CA	GLY	50	17.675	36.992	-15.743	1.00	0.00	C
ATOM	456	C	GLY	50	17.120	37.072	-17.129	1.00	0.00	C
ATOM	457	O	GLY	50	15.955	36.765	-17.348	1.00	0.00	O
ATOM	458	N	ASN	51	17.912	37.584	-18.084	1.00	0.00	N
ATOM	459	HN	ASN	51	18.866	37.842	-17.833	1.00	0.00	H
ATOM	460	CA	ASN	51	17.488	37.787	-19.438	1.00	0.00	C
ATOM	461	CB	ASN	51	18.525	38.579	-20.255	1.00	0.00	C
ATOM	462	CG	ASN	51	17.918	38.924	-21.607	1.00	0.00	C
ATOM	463	OD1	ASN	51	18.464	38.580	-22.654	1.00	0.00	O
ATOM	464	ND2	ASN	51	16.756	39.631	-21.586	1.00	0.00	N
ATOM	465	1HD2	ASN	51	16.349	39.862	-22.492	1.00	0.00	H
ATOM	466	2HD2	ASN	51	16.303	39.916	-20.718	1.00	0.00	H
ATOM	467	C	ASN	51	17.285	36.476	-20.115	1.00	0.00	C
ATOM	468	O	ASN	51	16.296	36.275	-20.815	1.00	0.00	O
ATOM	469	N	LEU	52	18.252	35.553	-19.983	1.00	0.00	N
ATOM	470	HN	LEU	52	19.102	35.752	-19.456	1.00	0.00	H
ATOM	471	CA	LEU	52	18.051	34.285	-20.604	1.00	0.00	C
ATOM	472	CB	LEU	52	19.313	33.405	-20.597	1.00	0.00	C
ATOM	473	CG	LEU	52	20.488	34.003	-21.392	1.00	0.00	C
ATOM	474	CD1	LEU	52	21.704	33.061	-21.393	1.00	0.00	C
ATOM	475	CD2	LEU	52	20.054	34.417	-22.807	1.00	0.00	C
ATOM	476	C	LEU	52	16.997	33.555	-19.840	1.00	0.00	C
ATOM	477	O	LEU	52	16.150	32.870	-20.409	1.00	0.00	O
ATOM	478	N	GLU	53	17.107	33.591	-18.501	1.00	0.00	N
ATOM	479	HN	GLU	53	17.827	34.163	-18.059	1.00	0.00	H
ATOM	480	CA	GLU	53	16.206	32.821	-17.701	1.00	0.00	C
ATOM	481	CB	GLU	53	16.858	32.394	-16.383	1.00	0.00	C
ATOM	482	CG	GLU	53	15.988	31.432	-15.592	1.00	0.00	C
ATOM	483	CD	GLU	53	15.908	30.131	-16.376	1.00	0.00	C
ATOM	484	OE1	GLU	53	16.954	29.714	-16.942	1.00	0.00	O
ATOM	485	OE2	GLU	53	14.798	29.538	-16.428	1.00	0.00	O
ATOM	486	C	GLU	53	14.893	33.390	-17.326	1.00	0.00	C
ATOM	487	O	GLU	53	13.853	32.873	-17.736	1.00	0.00	O
ATOM	488	N	ASP	54	14.959	34.496	-16.550	1.00	0.00	N
ATOM	489	HN	ASP	54	15.881	34.926	-16.482	1.00	0.00	H
ATOM	490	CA	ASP	54	13.912	35.158	-15.803	1.00	0.00	C
ATOM	491	CB	ASP	54	13.097	36.196	-16.595	1.00	0.00	C
ATOM	492	CG	ASP	54	12.395	37.141	-15.634	1.00	0.00	C
ATOM	493	OD1	ASP	54	12.754	37.130	-14.426	1.00	0.00	O
ATOM	494	OD2	ASP	54	11.498	37.895	-16.096	1.00	0.00	O
ATOM	495	C	ASP	54	12.968	34.151	-15.199	1.00	0.00	C
ATOM	496	O	ASP	54	13.138	32.938	-15.308	1.00	0.00	O
ATOM	497	N	LEU	55	11.971	34.633	-14.437	1.00	0.00	N
ATOM	498	HN	LEU	55	11.928	35.620	-14.184	1.00	0.00	H
ATOM	499	CA	LEU	55	10.977	33.712	-13.996	1.00	0.00	C
ATOM	500	CB	LEU	55	9.856	34.389	-13.183	1.00	0.00	C
ATOM	501	CG	LEU	55	8.818	33.433	-12.550	1.00	0.00	C
ATOM	502	CD1	LEU	55	7.757	34.229	-11.776	1.00	0.00	C
ATOM	503	CD2	LEU	55	8.189	32.470	-13.572	1.00	0.00	C
ATOM	504	C	LEU	55	10.424	33.288	-15.304	1.00	0.00	C
ATOM	505	O	LEU	55	10.186	32.108	-15.557	1.00	0.00	O
ATOM	506	N	MET	56	10.235	34.287	-16.187	1.00	0.00	N
ATOM	507	HN	MET	56	10.381	35.256	-15.905	1.00	0.00	H
ATOM	508	CA	MET	56	9.830	33.981	-17.517	1.00	0.00	C
ATOM	509	CB	MET	56	8.370	34.369	-17.808	1.00	0.00	C
ATOM	510	CG	MET	56	7.339	33.577	-17.000	1.00	0.00	C
ATOM	511	SD	MET	56	7.260	31.807	-17.408	1.00	0.00	S
ATOM	512	CE	MET	56	6.507	32.046	-19.044	1.00	0.00	C
ATOM	513	C	MET	56	10.682	34.787	-18.450	1.00	0.00	C
ATOM	514	O	MET	56	10.179	35.698	-19.106	1.00	0.00	O
ATOM	515	N	SER	57	11.998	34.492	-18.546	1.00	0.00	N

ATOM	516	HN	SER	57	12.449	33.828	-17.917	1.00	0.00	H
ATOM	517	CA	SER	57	12.719	35.164	-19.578	1.00	0.00	C
ATOM	518	CB	SER	57	14.137	35.641	-19.282	1.00	0.00	C
ATOM	519	OG	SER	57	14.073	37.041	-19.055	1.00	0.00	O
ATOM	520	HG	SER	57	14.956	37.338	-18.871	1.00	0.00	H
ATOM	521	C	SER	57	12.723	34.321	-20.803	1.00	0.00	C
ATOM	522	O	SER	57	11.728	33.685	-21.141	1.00	0.00	O
ATOM	523	N	ASN	58	13.862	34.331	-21.513	1.00	0.00	N
ATOM	524	HN	ASN	58	14.658	34.836	-21.122	1.00	0.00	H
ATOM	525	CA	ASN	58	14.043	33.686	-22.778	1.00	0.00	C
ATOM	526	CB	ASN	58	15.445	33.914	-23.366	1.00	0.00	C
ATOM	527	CG	ASN	58	15.514	33.166	-24.693	1.00	0.00	C
ATOM	528	OD1	ASN	58	16.509	32.510	-24.997	1.00	0.00	O
ATOM	529	ND2	ASN	58	14.428	33.256	-25.506	1.00	0.00	N
ATOM	530	1HD2	ASN	58	13.603	33.800	-25.254	1.00	0.00	H
ATOM	531	2HD2	ASN	58	14.474	32.756	-26.394	1.00	0.00	H
ATOM	532	C	ASN	58	13.859	32.211	-22.696	1.00	0.00	C
ATOM	533	O	ASN	58	13.389	31.623	-23.666	1.00	0.00	O
ATOM	534	N	ILE	59	14.171	31.580	-21.546	1.00	0.00	N
ATOM	535	HN	ILE	59	14.339	32.116	-20.694	1.00	0.00	H
ATOM	536	CA	ILE	59	14.264	30.149	-21.531	1.00	0.00	C
ATOM	537	CB	ILE	59	14.896	29.594	-20.290	1.00	0.00	C
ATOM	538	CG1	ILE	59	14.940	28.059	-20.387	1.00	0.00	C
ATOM	539	CG2	ILE	59	14.165	30.151	-19.059	1.00	0.00	C
ATOM	540	CD1	ILE	59	15.570	27.366	-19.183	1.00	0.00	C
ATOM	541	C	ILE	59	12.969	29.430	-21.693	1.00	0.00	C
ATOM	542	O	ILE	59	12.325	29.006	-20.739	1.00	0.00	O
ATOM	543	N	THR	60	12.570	29.249	-22.954	1.00	0.00	N
ATOM	544	HN	THR	60	13.050	29.760	-23.695	1.00	0.00	H
ATOM	545	CA	THR	60	11.503	28.373	-23.310	1.00	0.00	C
ATOM	546	CB	THR	60	10.442	29.044	-24.129	1.00	0.00	C
ATOM	547	OG1	THR	60	11.002	29.543	-25.334	1.00	0.00	O
ATOM	548	HG1	THR	60	11.375	28.830	-25.839	1.00	0.00	H
ATOM	549	CG2	THR	60	9.838	30.197	-23.311	1.00	0.00	C
ATOM	550	C	THR	60	12.239	27.445	-24.202	1.00	0.00	C
ATOM	551	O	THR	60	11.775	27.079	-25.281	1.00	0.00	O
ATOM	552	N	ASN	61	13.434	27.041	-23.728	1.00	0.00	N
ATOM	553	HN	ASN	61	13.706	27.270	-22.772	1.00	0.00	H
ATOM	554	CA	ASN	61	14.322	26.292	-24.561	1.00	0.00	C
ATOM	555	CB	ASN	61	15.388	27.177	-25.230	1.00	0.00	C
ATOM	556	CG	ASN	61	14.671	28.169	-26.135	1.00	0.00	C
ATOM	557	OD1	ASN	61	13.740	27.810	-26.854	1.00	0.00	O
ATOM	558	ND2	ASN	61	15.103	29.458	-26.088	1.00	0.00	N
ATOM	559	1HD2	ASN	61	14.623	30.123	-26.694	1.00	0.00	H
ATOM	560	2HD2	ASN	61	15.875	29.756	-25.492	1.00	0.00	H
ATOM	561	C	ASN	61	15.055	25.307	-23.711	1.00	0.00	C
ATOM	562	O	ASN	61	14.604	24.927	-22.631	1.00	0.00	O
ATOM	563	N	ARG	62	16.236	24.878	-24.200	1.00	0.00	N
ATOM	564	HN	ARG	62	16.595	25.300	-25.056	1.00	0.00	H
ATOM	565	CA	ARG	62	17.005	23.851	-23.561	1.00	0.00	C
ATOM	566	CB	ARG	62	18.385	23.647	-24.211	1.00	0.00	C
ATOM	567	CG	ARG	62	18.298	23.113	-25.643	1.00	0.00	C
ATOM	568	CD	ARG	62	19.659	22.916	-26.314	1.00	0.00	C
ATOM	569	NE	ARG	62	19.423	22.253	-27.628	1.00	0.00	N
ATOM	570	HE	ARG	62	19.500	21.239	-27.708	1.00	0.00	H
ATOM	571	CZ	ARG	62	19.104	23.001	-28.725	1.00	0.00	C
ATOM	572	NH1	ARG	62	18.974	24.355	-28.611	1.00	0.00	N
ATOM	573	1HH1	ARG	62	19.123	24.807	-27.709	1.00	0.00	H
ATOM	574	2HH1	ARG	62	18.736	24.914	-29.430	1.00	0.00	H
ATOM	575	NH2	ARG	62	18.904	22.395	-29.933	1.00	0.00	N
ATOM	576	1HH2	ARG	62	19.001	21.383	-30.018	1.00	0.00	H
ATOM	577	2HH2	ARG	62	18.666	22.954	-30.752	1.00	0.00	H
ATOM	578	C	ARG	62	17.202	24.203	-22.123	1.00	0.00	C
ATOM	579	O	ARG	62	17.845	25.190	-21.769	1.00	0.00	O
ATOM	580	N	SER	63	16.627	23.359	-21.249	1.00	0.00	N
ATOM	581	HN	SER	63	16.132	22.545	-21.612	1.00	0.00	H
ATOM	582	CA	SER	63	16.679	23.552	-19.834	1.00	0.00	C
ATOM	583	CB	SER	63	15.774	22.571	-19.074	1.00	0.00	C
ATOM	584	OG	SER	63	14.415	22.792	-19.420	1.00	0.00	O
ATOM	585	HG	SER	63	13.855	22.185	-18.950	1.00	0.00	H
ATOM	586	C	SER	63	18.075	23.341	-19.340	1.00	0.00	C
ATOM	587	O	SER	63	18.566	24.107	-18.515	1.00	0.00	O
ATOM	588	N	ASP	64	18.766	22.311	-19.864	1.00	0.00	N
ATOM	589	HN	ASP	64	18.360	21.780	-20.634	1.00	0.00	H

ATOM	590	CA	ASP	64	20.062	21.942	-19.364	1.00	0.00	C
ATOM	591	CB	ASP	64	20.656	20.703	-20.064	1.00	0.00	C
ATOM	592	CG	ASP	64	20.892	21.029	-21.533	1.00	0.00	C
ATOM	593	OD1	ASP	64	20.063	21.775	-22.119	1.00	0.00	O
ATOM	594	OD2	ASP	64	21.910	20.537	-22.089	1.00	0.00	O
ATOM	595	C	ASP	64	21.029	23.069	-19.546	1.00	0.00	C
ATOM	596	O	ASP	64	21.854	23.330	-18.673	1.00	0.00	O
ATOM	597	N	ILE	65	20.944	23.782	-20.681	1.00	0.00	N
ATOM	598	HN	ILE	65	20.208	23.564	-21.353	1.00	0.00	H
ATOM	599	CA	ILE	65	21.864	24.842	-20.968	1.00	0.00	C
ATOM	600	CB	ILE	65	21.648	25.485	-22.311	1.00	0.00	C
ATOM	601	CG1	ILE	65	22.853	26.367	-22.682	1.00	0.00	C
ATOM	602	CG2	ILE	65	20.317	26.249	-22.278	1.00	0.00	C
ATOM	603	CD1	ILE	65	22.831	26.856	-24.131	1.00	0.00	C
ATOM	604	C	ILE	65	21.696	25.892	-19.926	1.00	0.00	C
ATOM	605	O	ILE	65	22.647	26.590	-19.591	1.00	0.00	O
ATOM	606	N	ASN	66	20.454	26.092	-19.453	1.00	0.00	N
ATOM	607	HN	ASN	66	19.683	25.538	-19.825	1.00	0.00	H
ATOM	608	CA	ASN	66	20.191	27.066	-18.438	1.00	0.00	C
ATOM	609	CB	ASN	66	18.702	27.395	-18.303	1.00	0.00	C
ATOM	610	CG	ASN	66	18.363	28.222	-19.536	1.00	0.00	C
ATOM	611	OD1	ASN	66	18.317	27.708	-20.653	1.00	0.00	O
ATOM	612	ND2	ASN	66	18.123	29.545	-19.332	1.00	0.00	N
ATOM	613	1HD2	ASN	66	17.896	30.099	-20.158	1.00	0.00	H
ATOM	614	2HD2	ASN	66	18.161	29.971	-18.406	1.00	0.00	H
ATOM	615	C	ASN	66	20.755	26.619	-17.124	1.00	0.00	C
ATOM	616	O	ASN	66	21.224	27.434	-16.335	1.00	0.00	O
ATOM	617	N	ASP	67	20.723	25.311	-16.825	1.00	0.00	N
ATOM	618	HN	ASP	67	20.317	24.632	-17.469	1.00	0.00	H
ATOM	619	CA	ASP	67	21.278	24.901	-15.570	1.00	0.00	C
ATOM	620	CB	ASP	67	21.162	23.384	-15.335	1.00	0.00	C
ATOM	621	CG	ASP	67	21.573	23.077	-13.898	1.00	0.00	C
ATOM	622	OD1	ASP	67	22.134	23.984	-13.227	1.00	0.00	O
ATOM	623	OD2	ASP	67	21.323	21.927	-13.449	1.00	0.00	O
ATOM	624	C	ASP	67	22.729	25.256	-15.615	1.00	0.00	C
ATOM	625	O	ASP	67	23.297	25.741	-14.638	1.00	0.00	O
ATOM	626	N	THR	68	23.367	25.009	-16.773	1.00	0.00	N
ATOM	627	HN	THR	68	22.838	24.622	-17.554	1.00	0.00	H
ATOM	628	CA	THR	68	24.767	25.272	-16.947	1.00	0.00	C
ATOM	629	CB	THR	68	25.292	24.714	-18.239	1.00	0.00	C
ATOM	630	OG1	THR	68	25.082	23.310	-18.299	1.00	0.00	O
ATOM	631	HG1	THR	68	24.153	23.119	-18.244	1.00	0.00	H
ATOM	632	CG2	THR	68	26.795	25.023	-18.328	1.00	0.00	C
ATOM	633	C	THR	68	25.056	26.745	-16.943	1.00	0.00	C
ATOM	634	O	THR	68	25.949	27.204	-16.233	1.00	0.00	O
ATOM	635	N	GLY	69	24.292	27.536	-17.723	1.00	0.00	N
ATOM	636	HN	GLY	69	23.500	27.140	-18.230	1.00	0.00	H
ATOM	637	CA	GLY	69	24.592	28.934	-17.840	1.00	0.00	C
ATOM	638	C	GLY	69	24.429	29.582	-16.505	1.00	0.00	C
ATOM	639	O	GLY	69	25.225	30.437	-16.119	1.00	0.00	O
ATOM	640	N	PHE	70	23.356	29.210	-15.784	1.00	0.00	N
ATOM	641	HN	PHE	70	22.742	28.477	-16.140	1.00	0.00	H
ATOM	642	CA	PHE	70	23.062	29.825	-14.526	1.00	0.00	C
ATOM	643	CB	PHE	70	21.601	29.639	-14.091	1.00	0.00	C
ATOM	644	CG	PHE	70	20.906	30.465	-15.115	1.00	0.00	C
ATOM	645	CD1	PHE	70	21.110	31.819	-15.120	1.00	0.00	C
ATOM	646	CD2	PHE	70	20.124	29.912	-16.101	1.00	0.00	C
ATOM	647	CE1	PHE	70	20.506	32.595	-16.071	1.00	0.00	C
ATOM	648	CE2	PHE	70	19.516	30.689	-17.055	1.00	0.00	C
ATOM	649	CZ	PHE	70	19.706	32.045	-17.039	1.00	0.00	C
ATOM	650	C	PHE	70	24.012	29.462	-13.435	1.00	0.00	C
ATOM	651	O	PHE	70	24.500	30.344	-12.733	1.00	0.00	O
ATOM	652	N	PHE	71	24.343	28.171	-13.274	1.00	0.00	N
ATOM	653	HN	PHE	71	23.962	27.452	-13.889	1.00	0.00	H
ATOM	654	CA	PHE	71	25.246	27.830	-12.215	1.00	0.00	C
ATOM	655	CB	PHE	71	25.541	26.328	-12.083	1.00	0.00	C
ATOM	656	CG	PHE	71	26.168	26.170	-10.740	1.00	0.00	C
ATOM	657	CD1	PHE	71	27.503	26.431	-10.547	1.00	0.00	C
ATOM	658	CD2	PHE	71	25.407	25.769	-9.666	1.00	0.00	C
ATOM	659	CE1	PHE	71	28.071	26.290	-9.303	1.00	0.00	C
ATOM	660	CE2	PHE	71	25.970	25.626	-8.420	1.00	0.00	C
ATOM	661	CZ	PHE	71	27.306	25.887	-8.236	1.00	0.00	C
ATOM	662	C	PHE	71	26.523	28.522	-12.556	1.00	0.00	C
ATOM	663	O	PHE	71	27.286	28.921	-11.678	1.00	0.00	O

ATOM	664	N	MET	72	26.795	28.671	-13.866	1.00	0.00	N
ATOM	665	HN	MET	72	26.136	28.346	-14.574	1.00	0.00	H
ATOM	666	CA	MET	72	28.027	29.294	-14.246	1.00	0.00	C
ATOM	667	CB	MET	72	28.223	29.400	-15.770	1.00	0.00	C
ATOM	668	CG	MET	72	28.547	28.071	-16.453	1.00	0.00	C
ATOM	669	SD	MET	72	28.781	28.202	-18.253	1.00	0.00	S
ATOM	670	CE	MET	72	29.349	26.491	-18.472	1.00	0.00	C
ATOM	671	C	MET	72	28.112	30.691	-13.703	1.00	0.00	C
ATOM	672	O	MET	72	29.054	31.015	-12.985	1.00	0.00	O
ATOM	673	N	ASN	73	27.110	31.547	-13.976	1.00	0.00	N
ATOM	674	HN	ASN	73	26.304	31.225	-14.511	1.00	0.00	H
ATOM	675	CA	ASN	73	27.164	32.910	-13.521	1.00	0.00	C
ATOM	676	CB	ASN	73	26.040	33.785	-14.107	1.00	0.00	C
ATOM	677	CG	ASN	73	26.342	34.027	-15.581	1.00	0.00	C
ATOM	678	OD1	ASN	73	27.394	34.559	-15.931	1.00	0.00	O
ATOM	679	ND2	ASN	73	25.395	33.625	-16.471	1.00	0.00	N
ATOM	680	1HD2	ASN	73	24.522	33.184	-16.181	1.00	0.00	H
ATOM	681	2HD2	ASN	73	25.597	33.787	-17.458	1.00	0.00	H
ATOM	682	C	ASN	73	27.035	32.918	-12.033	1.00	0.00	C
ATOM	683	O	ASN	73	27.576	33.793	-11.358	1.00	0.00	O
ATOM	684	N	LEU	74	26.277	31.951	-11.485	1.00	0.00	N
ATOM	685	HN	LEU	74	25.855	31.241	-12.084	1.00	0.00	H
ATOM	686	CA	LEU	74	26.055	31.906	-10.067	1.00	0.00	C
ATOM	687	CB	LEU	74	25.272	30.649	-9.672	1.00	0.00	C
ATOM	688	CG	LEU	74	25.110	30.451	-8.157	1.00	0.00	C
ATOM	689	CD1	LEU	74	24.344	31.617	-7.516	1.00	0.00	C
ATOM	690	CD2	LEU	74	24.481	29.081	-7.850	1.00	0.00	C
ATOM	691	C	LEU	74	27.355	31.771	-9.360	1.00	0.00	C
ATOM	692	O	LEU	74	27.778	32.648	-8.610	1.00	0.00	O
ATOM	693	N	GLU	75	28.057	30.673	-9.655	1.00	0.00	N
ATOM	694	HN	GLU	75	27.703	30.031	-10.364	1.00	0.00	H
ATOM	695	CA	GLU	75	29.289	30.378	-9.001	1.00	0.00	C
ATOM	696	CB	GLU	75	29.878	29.066	-9.530	1.00	0.00	C
ATOM	697	CG	GLU	75	31.238	28.711	-8.948	1.00	0.00	C
ATOM	698	CD	GLU	75	31.711	27.464	-9.680	1.00	0.00	C
ATOM	699	OE1	GLU	75	30.934	26.952	-10.532	1.00	0.00	O
ATOM	700	OE2	GLU	75	32.852	27.008	-9.403	1.00	0.00	O
ATOM	701	C	GLU	75	30.262	31.452	-9.344	1.00	0.00	C
ATOM	702	O	GLU	75	30.995	31.936	-8.484	1.00	0.00	O
ATOM	703	N	GLU	76	30.265	31.869	-10.623	1.00	0.00	N
ATOM	704	HN	GLU	76	29.557	31.517	-11.267	1.00	0.00	H
ATOM	705	CA	GLU	76	31.248	32.801	-11.095	1.00	0.00	C
ATOM	706	CB	GLU	76	31.006	33.208	-12.549	1.00	0.00	C
ATOM	707	CG	GLU	76	31.977	34.284	-13.029	1.00	0.00	C
ATOM	708	CD	GLU	76	31.205	35.130	-14.024	1.00	0.00	C
ATOM	709	OE1	GLU	76	29.947	35.051	-13.992	1.00	0.00	O
ATOM	710	OE2	GLU	76	31.847	35.876	-14.808	1.00	0.00	O
ATOM	711	C	GLU	76	31.187	34.090	-10.342	1.00	0.00	C
ATOM	712	O	GLU	76	32.176	34.525	-9.756	1.00	0.00	O
ATOM	713	N	ASP	77	30.005	34.725	-10.318	1.00	0.00	N
ATOM	714	HN	ASP	77	29.197	34.295	-10.767	1.00	0.00	H
ATOM	715	CA	ASP	77	29.857	35.996	-9.673	1.00	0.00	C
ATOM	716	CB	ASP	77	28.463	36.607	-9.907	1.00	0.00	C
ATOM	717	CG	ASP	77	28.488	38.093	-9.561	1.00	0.00	C
ATOM	718	OD1	ASP	77	28.915	38.449	-8.431	1.00	0.00	O
ATOM	719	OD2	ASP	77	28.065	38.898	-10.433	1.00	0.00	O
ATOM	720	C	ASP	77	30.040	35.752	-8.217	1.00	0.00	C
ATOM	721	O	ASP	77	30.404	36.645	-7.461	1.00	0.00	O
ATOM	722	N	MET	78	29.765	34.515	-7.780	1.00	0.00	N
ATOM	723	HN	MET	78	29.486	33.800	-8.452	1.00	0.00	H
ATOM	724	CA	MET	78	29.853	34.174	-6.393	1.00	0.00	C
ATOM	725	CB	MET	78	29.482	32.700	-6.171	1.00	0.00	C
ATOM	726	CG	MET	78	28.717	32.436	-4.876	1.00	0.00	C
ATOM	727	SD	MET	78	27.022	33.098	-4.935	1.00	0.00	S
ATOM	728	CE	MET	78	26.289	31.873	-3.816	1.00	0.00	C
ATOM	729	C	MET	78	31.282	34.374	-5.996	1.00	0.00	C
ATOM	730	O	MET	78	31.577	34.847	-4.900	1.00	0.00	O
ATOM	731	N	THR	79	32.214	33.996	-6.889	1.00	0.00	N
ATOM	732	HN	THR	79	31.917	33.573	-7.769	1.00	0.00	H
ATOM	733	CA	THR	79	33.613	34.172	-6.636	1.00	0.00	C
ATOM	734	CB	THR	79	34.457	33.570	-7.721	1.00	0.00	C
ATOM	735	OG1	THR	79	34.148	32.192	-7.876	1.00	0.00	O
ATOM	736	HG1	THR	79	34.682	31.811	-8.563	1.00	0.00	H
ATOM	737	CG2	THR	79	35.935	33.723	-7.335	1.00	0.00	C

ATOM	738	C	THR	79	33.876	35.647	-6.597	1.00	0.00	C
ATOM	739	O	THR	79	34.610	36.140	-5.742	1.00	0.00	O
ATOM	740	N	ARG	80	33.241	36.389	-7.524	1.00	0.00	N
ATOM	741	HN	ARG	80	32.605	35.919	-8.168	1.00	0.00	H
ATOM	742	CA	ARG	80	33.414	37.808	-7.651	1.00	0.00	C
ATOM	743	CB	ARG	80	32.567	38.405	-8.790	1.00	0.00	C
ATOM	744	CG	ARG	80	32.728	39.919	-8.961	1.00	0.00	C
ATOM	745	CD	ARG	80	34.030	40.337	-9.647	1.00	0.00	C
ATOM	746	NE	ARG	80	33.856	40.104	-11.110	1.00	0.00	N
ATOM	747	HE	ARG	80	33.095	39.514	-11.445	1.00	0.00	H
ATOM	748	CZ	ARG	80	34.715	40.680	-12.001	1.00	0.00	C
ATOM	749	NH1	ARG	80	35.737	41.463	-11.549	1.00	0.00	N
ATOM	750	1HH1	ARG	80	36.379	41.893	-12.215	1.00	0.00	H
ATOM	751	2HH1	ARG	80	35.859	41.621	-10.549	1.00	0.00	H
ATOM	752	NH2	ARG	80	34.552	40.468	-13.340	1.00	0.00	N
ATOM	753	1HH2	ARG	80	35.194	40.898	-14.006	1.00	0.00	H
ATOM	754	2HH2	ARG	80	33.788	39.883	-13.678	1.00	0.00	H
ATOM	755	C	ARG	80	32.973	38.469	-6.382	1.00	0.00	C
ATOM	756	O	ARG	80	33.605	39.415	-5.917	1.00	0.00	O
ATOM	757	N	TYR	81	31.867	37.989	-5.787	1.00	0.00	N
ATOM	758	HN	TYR	81	31.381	37.192	-6.198	1.00	0.00	H
ATOM	759	CA	TYR	81	31.363	38.580	-4.586	1.00	0.00	C
ATOM	760	CB	TYR	81	30.113	37.885	-4.012	1.00	0.00	C
ATOM	761	CG	TYR	81	28.960	38.017	-4.947	1.00	0.00	C
ATOM	762	CD1	TYR	81	28.375	39.242	-5.175	1.00	0.00	C
ATOM	763	CD2	TYR	81	28.432	36.902	-5.558	1.00	0.00	C
ATOM	764	CE1	TYR	81	27.303	39.359	-6.027	1.00	0.00	C
ATOM	765	CE2	TYR	81	27.359	37.011	-6.411	1.00	0.00	C
ATOM	766	CZ	TYR	81	26.794	38.243	-6.646	1.00	0.00	C
ATOM	767	OH	TYR	81	25.691	38.361	-7.520	1.00	0.00	O
ATOM	768	HH	TYR	81	25.339	37.589	-7.948	1.00	0.00	H
ATOM	769	C	TYR	81	32.417	38.416	-3.543	1.00	0.00	C
ATOM	770	O	TYR	81	32.759	39.356	-2.831	1.00	0.00	O
ATOM	771	N	ALA	82	33.002	37.209	-3.458	1.00	0.00	N
ATOM	772	HN	ALA	82	32.772	36.480	-4.133	1.00	0.00	H
ATOM	773	CA	ALA	82	33.949	36.950	-2.416	1.00	0.00	C
ATOM	774	CB	ALA	82	34.538	35.531	-2.491	1.00	0.00	C
ATOM	775	C	ALA	82	35.085	37.915	-2.537	1.00	0.00	C
ATOM	776	O	ALA	82	35.494	38.527	-1.552	1.00	0.00	O
ATOM	777	N	TYR	83	35.596	38.123	-3.760	1.00	0.00	N
ATOM	778	HN	TYR	83	35.197	37.659	-4.576	1.00	0.00	H
ATOM	779	CA	TYR	83	36.710	39.007	-3.899	1.00	0.00	C
ATOM	780	CB	TYR	83	37.229	39.189	-5.337	1.00	0.00	C
ATOM	781	CG	TYR	83	37.838	37.924	-5.826	1.00	0.00	C
ATOM	782	CD1	TYR	83	39.026	37.485	-5.295	1.00	0.00	C
ATOM	783	CD2	TYR	83	37.215	37.169	-6.792	1.00	0.00	C
ATOM	784	CE1	TYR	83	39.602	36.317	-5.738	1.00	0.00	C
ATOM	785	CE2	TYR	83	37.789	36.004	-7.239	1.00	0.00	C
ATOM	786	CZ	TYR	83	38.984	35.575	-6.715	1.00	0.00	C
ATOM	787	OH	TYR	83	39.571	34.376	-7.175	1.00	0.00	O
ATOM	788	HH	TYR	83	40.398	34.079	-6.813	1.00	0.00	H
ATOM	789	C	TYR	83	36.295	40.374	-3.472	1.00	0.00	C
ATOM	790	O	TYR	83	37.093	41.102	-2.887	1.00	0.00	O
ATOM	791	N	TYR	84	35.057	40.790	-3.803	1.00	0.00	N
ATOM	792	HN	TYR	84	34.384	40.154	-4.230	1.00	0.00	H
ATOM	793	CA	TYR	84	34.718	42.158	-3.535	1.00	0.00	C
ATOM	794	CB	TYR	84	33.474	42.706	-4.272	1.00	0.00	C
ATOM	795	CG	TYR	84	32.187	42.472	-3.553	1.00	0.00	C
ATOM	796	CD1	TYR	84	31.799	43.322	-2.542	1.00	0.00	C
ATOM	797	CD2	TYR	84	31.347	41.444	-3.905	1.00	0.00	C
ATOM	798	CE1	TYR	84	30.609	43.136	-1.879	1.00	0.00	C
ATOM	799	CE2	TYR	84	30.155	41.250	-3.247	1.00	0.00	C
ATOM	800	CZ	TYR	84	29.784	42.095	-2.230	1.00	0.00	C
ATOM	801	OH	TYR	84	28.561	41.900	-1.554	1.00	0.00	O
ATOM	802	HH	TYR	84	28.304	42.485	-0.850	1.00	0.00	H
ATOM	803	C	TYR	84	34.592	42.453	-2.070	1.00	0.00	C
ATOM	804	O	TYR	84	35.137	43.450	-1.600	1.00	0.00	O
ATOM	805	N	TYR	85	33.892	41.605	-1.291	1.00	0.00	N
ATOM	806	HN	TYR	85	33.469	40.761	-1.677	1.00	0.00	H
ATOM	807	CA	TYR	85	33.763	41.931	0.099	1.00	0.00	C
ATOM	808	CB	TYR	85	32.885	40.973	0.924	1.00	0.00	C
ATOM	809	CG	TYR	85	33.579	39.674	1.145	1.00	0.00	C
ATOM	810	CD1	TYR	85	34.401	39.512	2.238	1.00	0.00	C
ATOM	811	CD2	TYR	85	33.408	38.622	0.277	1.00	0.00	C

ATOM	812	CE1	TYR	85	35.046	38.319	2.462	1.00	0.00	C
ATOM	813	CE2	TYR	85	34.050	37.426	0.498	1.00	0.00	C
ATOM	814	CZ	TYR	85	34.870	37.274	1.589	1.00	0.00	C
ATOM	815	OH	TYR	85	35.529	36.047	1.814	1.00	0.00	O
ATOM	816	HH	TYR	85	36.096	35.942	2.569	1.00	0.00	H
ATOM	817	C	TYR	85	35.142	41.883	0.648	1.00	0.00	C
ATOM	818	O	TYR	85	35.512	42.663	1.521	1.00	0.00	O
ATOM	819	N	SER	86	35.941	40.936	0.142	1.00	0.00	N
ATOM	820	HN	SER	86	35.584	40.318	-0.586	1.00	0.00	H
ATOM	821	CA	SER	86	37.283	40.774	0.601	1.00	0.00	C
ATOM	822	CB	SER	86	38.019	39.686	-0.198	1.00	0.00	C
ATOM	823	OG	SER	86	39.349	39.540	0.274	1.00	0.00	O
ATOM	824	HG	SER	86	39.804	38.868	-0.220	1.00	0.00	H
ATOM	825	C	SER	86	38.053	42.048	0.432	1.00	0.00	C
ATOM	826	O	SER	86	38.319	42.744	1.409	1.00	0.00	O
ATOM	827	N	GLY	87	38.348	42.437	-0.828	1.00	0.00	N
ATOM	828	HN	GLY	87	37.924	41.950	-1.617	1.00	0.00	H
ATOM	829	CA	GLY	87	39.250	43.527	-1.070	1.00	0.00	C
ATOM	830	C	GLY	87	38.767	44.762	-0.386	1.00	0.00	C
ATOM	831	O	GLY	87	39.551	45.461	0.253	1.00	0.00	O
ATOM	832	N	ILE	88	37.469	45.085	-0.507	1.00	0.00	N
ATOM	833	HN	ILE	88	36.833	44.494	-1.042	1.00	0.00	H
ATOM	834	CA	ILE	88	36.998	46.278	0.132	1.00	0.00	C
ATOM	835	CB	ILE	88	35.578	46.605	-0.235	1.00	0.00	C
ATOM	836	CG1	ILE	88	35.448	46.845	-1.749	1.00	0.00	C
ATOM	837	CG2	ILE	88	35.134	47.803	0.622	1.00	0.00	C
ATOM	838	CD1	ILE	88	36.291	48.011	-2.265	1.00	0.00	C
ATOM	839	C	ILE	88	37.025	46.112	1.621	1.00	0.00	C
ATOM	840	O	ILE	88	37.672	46.877	2.332	1.00	0.00	O
ATOM	841	N	GLY	89	36.396	45.034	2.123	1.00	0.00	N
ATOM	842	HN	GLY	89	36.059	44.313	1.485	1.00	0.00	H
ATOM	843	CA	GLY	89	36.187	44.874	3.533	1.00	0.00	C
ATOM	844	C	GLY	89	37.484	44.875	4.264	1.00	0.00	C
ATOM	845	O	GLY	89	37.656	45.630	5.220	1.00	0.00	O
ATOM	846	N	ALA	90	38.451	44.059	3.813	1.00	0.00	N
ATOM	847	HN	ALA	90	38.295	43.472	2.994	1.00	0.00	H
ATOM	848	CA	ALA	90	39.702	44.029	4.502	1.00	0.00	C
ATOM	849	CB	ALA	90	40.720	43.072	3.859	1.00	0.00	C
ATOM	850	C	ALA	90	40.247	45.407	4.387	1.00	0.00	C
ATOM	851	O	ALA	90	40.777	45.968	5.346	1.00	0.00	O
ATOM	852	N	GLY	91	40.050	46.016	3.204	1.00	0.00	N
ATOM	853	HN	GLY	91	39.496	45.566	2.476	1.00	0.00	H
ATOM	854	CA	GLY	91	40.628	47.301	2.984	1.00	0.00	C
ATOM	855	C	GLY	91	40.146	48.282	4.009	1.00	0.00	C
ATOM	856	O	GLY	91	40.956	48.889	4.706	1.00	0.00	O
ATOM	857	N	VAL	92	38.822	48.415	4.194	1.00	0.00	N
ATOM	858	HN	VAL	92	38.176	47.796	3.703	1.00	0.00	H
ATOM	859	CA	VAL	92	38.311	49.425	5.080	1.00	0.00	C
ATOM	860	CB	VAL	92	36.805	49.440	5.133	1.00	0.00	C
ATOM	861	CG1	VAL	92	36.273	49.793	3.734	1.00	0.00	C
ATOM	862	CG2	VAL	92	36.296	48.085	5.655	1.00	0.00	C
ATOM	863	C	VAL	92	38.827	49.208	6.464	1.00	0.00	C
ATOM	864	O	VAL	92	39.328	50.147	7.080	1.00	0.00	O
ATOM	865	N	LEU	93	38.795	47.957	6.961	1.00	0.00	N
ATOM	866	HN	LEU	93	38.512	47.185	6.358	1.00	0.00	H
ATOM	867	CA	LEU	93	39.153	47.693	8.325	1.00	0.00	C
ATOM	868	CB	LEU	93	39.127	46.182	8.630	1.00	0.00	C
ATOM	869	CG	LEU	93	39.495	45.808	10.074	1.00	0.00	C
ATOM	870	CD1	LEU	93	38.487	46.394	11.071	1.00	0.00	C
ATOM	871	CD2	LEU	93	39.655	44.287	10.223	1.00	0.00	C
ATOM	872	C	LEU	93	40.538	48.208	8.571	1.00	0.00	C
ATOM	873	O	LEU	93	40.776	48.924	9.545	1.00	0.00	O
ATOM	874	N	VAL	94	41.489	47.905	7.667	1.00	0.00	N
ATOM	875	HN	VAL	94	41.254	47.367	6.833	1.00	0.00	H
ATOM	876	CA	VAL	94	42.836	48.346	7.888	1.00	0.00	C
ATOM	877	CB	VAL	94	43.784	47.847	6.838	1.00	0.00	C
ATOM	878	CG1	VAL	94	45.182	48.420	7.133	1.00	0.00	C
ATOM	879	CG2	VAL	94	43.727	46.310	6.816	1.00	0.00	C
ATOM	880	C	VAL	94	42.919	49.852	7.881	1.00	0.00	C
ATOM	881	O	VAL	94	43.443	50.457	8.815	1.00	0.00	O
ATOM	882	N	ALA	95	42.393	50.495	6.820	1.00	0.00	N
ATOM	883	HN	ALA	95	41.896	49.945	6.119	1.00	0.00	H
ATOM	884	CA	ALA	95	42.497	51.921	6.624	1.00	0.00	C
ATOM	885	CB	ALA	95	42.017	52.366	5.228	1.00	0.00	C

ATOM	886	C	ALA	95	41.732	52.720	7.637	1.00	0.00	C
ATOM	887	O	ALA	95	42.171	53.803	8.026	1.00	0.00	O
ATOM	888	N	ALA	96	40.543	52.242	8.049	1.00	0.00	N
ATOM	889	HN	ALA	96	40.215	51.339	7.706	1.00	0.00	H
ATOM	890	CA	ALA	96	39.733	52.993	8.967	1.00	0.00	C
ATOM	891	CB	ALA	96	38.404	52.291	9.297	1.00	0.00	C
ATOM	892	C	ALA	96	40.498	53.132	10.235	1.00	0.00	C
ATOM	893	O	ALA	96	40.674	54.239	10.746	1.00	0.00	O
ATOM	894	N	TYR	97	41.069	52.007	10.703	1.00	0.00	N
ATOM	895	HN	TYR	97	40.979	51.145	10.165	1.00	0.00	H
ATOM	896	CA	TYR	97	41.798	51.986	11.932	1.00	0.00	C
ATOM	897	CB	TYR	97	42.460	50.625	12.208	1.00	0.00	C
ATOM	898	CG	TYR	97	43.401	50.835	13.342	1.00	0.00	C
ATOM	899	CD1	TYR	97	42.946	50.889	14.639	1.00	0.00	C
ATOM	900	CD2	TYR	97	44.748	50.976	13.098	1.00	0.00	C
ATOM	901	CE1	TYR	97	43.827	51.089	15.675	1.00	0.00	C
ATOM	902	CE2	TYR	97	45.633	51.175	14.129	1.00	0.00	C
ATOM	903	CZ	TYR	97	45.170	51.232	15.420	1.00	0.00	C
ATOM	904	OH	TYR	97	46.074	51.439	16.481	1.00	0.00	O
ATOM	905	HH	TYR	97	47.002	51.538	16.305	1.00	0.00	H
ATOM	906	C	TYR	97	42.881	53.004	11.809	1.00	0.00	C
ATOM	907	O	TYR	97	43.209	53.694	12.772	1.00	0.00	O
ATOM	908	N	ILE	98	43.475	53.112	10.610	1.00	0.00	N
ATOM	909	HN	ILE	98	43.166	52.526	9.834	1.00	0.00	H
ATOM	910	CA	ILE	98	44.543	54.050	10.418	1.00	0.00	C
ATOM	911	CB	ILE	98	45.153	53.958	9.052	1.00	0.00	C
ATOM	912	CG1	ILE	98	45.778	52.569	8.850	1.00	0.00	C
ATOM	913	CG2	ILE	98	46.160	55.112	8.900	1.00	0.00	C
ATOM	914	CD1	ILE	98	46.881	52.255	9.860	1.00	0.00	C
ATOM	915	C	ILE	98	44.062	55.466	10.598	1.00	0.00	C
ATOM	916	O	ILE	98	44.674	56.232	11.339	1.00	0.00	O
ATOM	917	N	GLN	99	42.924	55.842	9.980	1.00	0.00	N
ATOM	918	HN	GLN	99	42.387	55.143	9.467	1.00	0.00	H
ATOM	919	CA	GLN	99	42.441	57.201	10.020	1.00	0.00	C
ATOM	920	CB	GLN	99	41.032	57.348	9.415	1.00	0.00	C
ATOM	921	CG	GLN	99	40.858	56.852	7.982	1.00	0.00	C
ATOM	922	CD	GLN	99	39.385	57.024	7.617	1.00	0.00	C
ATOM	923	OE1	GLN	99	38.862	56.318	6.756	1.00	0.00	O
ATOM	924	NE2	GLN	99	38.694	57.984	8.287	1.00	0.00	N
ATOM	925	1HE2	GLN	99	39.128	58.569	9.001	1.00	0.00	H
ATOM	926	2HE2	GLN	99	37.710	58.099	8.043	1.00	0.00	H
ATOM	927	C	GLN	99	42.224	57.599	11.447	1.00	0.00	C
ATOM	928	O	GLN	99	42.420	58.750	11.824	1.00	0.00	O
ATOM	929	N	VAL	100	41.731	56.666	12.269	1.00	0.00	N
ATOM	930	HN	VAL	100	41.554	55.730	11.904	1.00	0.00	H
ATOM	931	CA	VAL	100	41.444	56.939	13.646	1.00	0.00	C
ATOM	932	CB	VAL	100	40.738	55.787	14.300	1.00	0.00	C
ATOM	933	CG1	VAL	100	40.456	56.141	15.767	1.00	0.00	C
ATOM	934	CG2	VAL	100	39.483	55.457	13.470	1.00	0.00	C
ATOM	935	C	VAL	100	42.723	57.182	14.390	1.00	0.00	C
ATOM	936	O	VAL	100	42.779	58.004	15.305	1.00	0.00	O
ATOM	937	N	SER	101	43.789	56.444	14.031	1.00	0.00	N
ATOM	938	HN	SER	101	43.706	55.759	13.280	1.00	0.00	H
ATOM	939	CA	SER	101	45.040	56.621	14.703	1.00	0.00	C
ATOM	940	CB	SER	101	46.134	55.668	14.207	1.00	0.00	C
ATOM	941	OG	SER	101	45.765	54.326	14.479	1.00	0.00	O
ATOM	942	HG	SER	101	46.443	53.736	14.172	1.00	0.00	H
ATOM	943	C	SER	101	45.482	58.022	14.422	1.00	0.00	C
ATOM	944	O	SER	101	46.251	58.615	15.179	1.00	0.00	O
ATOM	945	N	PHE	102	45.002	58.574	13.293	1.00	0.00	N
ATOM	946	HN	PHE	102	44.415	58.014	12.674	1.00	0.00	H
ATOM	947	CA	PHE	102	45.297	59.930	12.941	1.00	0.00	C
ATOM	948	CB	PHE	102	44.616	60.359	11.623	1.00	0.00	C
ATOM	949	CG	PHE	102	44.735	61.831	11.368	1.00	0.00	C
ATOM	950	CD1	PHE	102	43.887	62.727	11.983	1.00	0.00	C
ATOM	951	CD2	PHE	102	45.685	62.322	10.504	1.00	0.00	C
ATOM	952	CE1	PHE	102	43.983	64.079	11.750	1.00	0.00	C
ATOM	953	CE2	PHE	102	45.785	63.673	10.264	1.00	0.00	C
ATOM	954	CZ	PHE	102	44.934	64.556	10.885	1.00	0.00	C
ATOM	955	C	PHE	102	44.721	60.777	14.018	1.00	0.00	C
ATOM	956	O	PHE	102	45.431	61.561	14.646	1.00	0.00	O
ATOM	957	N	TRP	103	43.426	60.548	14.319	1.00	0.00	N
ATOM	958	HN	TRP	103	42.947	59.747	13.907	1.00	0.00	H
ATOM	959	CA	TRP	103	42.716	61.414	15.209	1.00	0.00	C

ATOM	960	CB	TRP	103	41.311	60.868	15.553	1.00	0.00	C
ATOM	961	CG	TRP	103	40.511	61.609	16.615	1.00	0.00	C
ATOM	962	CD2	TRP	103	39.090	61.800	16.535	1.00	0.00	C
ATOM	963	CD1	TRP	103	40.907	62.204	17.781	1.00	0.00	C
ATOM	964	NE1	TRP	103	39.827	62.744	18.431	1.00	0.00	N
ATOM	965	HE1	TRP	103	39.853	63.239	19.323	1.00	0.00	H
ATOM	966	CE2	TRP	103	38.701	62.505	17.675	1.00	0.00	C
ATOM	967	CE3	TRP	103	38.183	61.419	15.588	1.00	0.00	C
ATOM	968	CZ2	TRP	103	37.394	62.841	17.886	1.00	0.00	C
ATOM	969	CZ3	TRP	103	36.866	61.759	15.804	1.00	0.00	C
ATOM	970	CH2	TRP	103	36.480	62.455	16.931	1.00	0.00	C
ATOM	971	C	TRP	103	43.457	61.605	16.494	1.00	0.00	C
ATOM	972	O	TRP	103	44.008	62.677	16.733	1.00	0.00	O
ATOM	973	N	CYS	104	43.552	60.565	17.328	1.00	0.00	N
ATOM	974	HN	CYS	104	43.240	59.638	17.040	1.00	0.00	H
ATOM	975	CA	CYS	104	44.100	60.777	18.632	1.00	0.00	C
ATOM	976	CB	CYS	104	43.776	59.647	19.614	1.00	0.00	C
ATOM	977	SG	CYS	104	42.003	59.555	20.007	1.00	0.00	S
ATOM	978	C	CYS	104	45.560	61.017	18.673	1.00	0.00	C
ATOM	979	O	CYS	104	45.986	61.843	19.474	1.00	0.00	O
ATOM	980	N	LEU	105	46.362	60.324	17.840	1.00	0.00	N
ATOM	981	HN	LEU	105	45.964	59.704	17.134	1.00	0.00	H
ATOM	982	CA	LEU	105	47.784	60.473	17.962	1.00	0.00	C
ATOM	983	CB	LEU	105	48.537	59.681	16.874	1.00	0.00	C
ATOM	984	CG	LEU	105	50.075	59.745	16.965	1.00	0.00	C
ATOM	985	CD1	LEU	105	50.628	61.129	16.589	1.00	0.00	C
ATOM	986	CD2	LEU	105	50.556	59.258	18.341	1.00	0.00	C
ATOM	987	C	LEU	105	48.054	61.926	17.782	1.00	0.00	C
ATOM	988	O	LEU	105	48.696	62.555	18.625	1.00	0.00	O
ATOM	989	N	ALA	106	47.465	62.512	16.727	1.00	0.00	N
ATOM	990	HN	ALA	106	46.862	61.980	16.099	1.00	0.00	H
ATOM	991	CA	ALA	106	47.709	63.901	16.511	1.00	0.00	C
ATOM	992	CB	ALA	106	47.110	64.388	15.183	1.00	0.00	C
ATOM	993	C	ALA	106	47.138	64.773	17.596	1.00	0.00	C
ATOM	994	O	ALA	106	47.873	65.306	18.421	1.00	0.00	O
ATOM	995	N	ALA	107	45.802	64.785	17.747	1.00	0.00	N
ATOM	996	HN	ALA	107	45.237	64.114	17.227	1.00	0.00	H
ATOM	997	CA	ALA	107	45.150	65.721	18.623	1.00	0.00	C
ATOM	998	CB	ALA	107	43.625	65.526	18.669	1.00	0.00	C
ATOM	999	C	ALA	107	45.670	65.523	20.006	1.00	0.00	C
ATOM	1000	O	ALA	107	45.871	66.475	20.757	1.00	0.00	O
ATOM	1001	N	GLY	108	45.943	64.266	20.370	1.00	0.00	N
ATOM	1002	HN	GLY	108	45.865	63.502	19.699	1.00	0.00	H
ATOM	1003	CA	GLY	108	46.346	64.013	21.715	1.00	0.00	C
ATOM	1004	C	GLY	108	47.593	64.780	22.053	1.00	0.00	C
ATOM	1005	O	GLY	108	47.581	65.615	22.956	1.00	0.00	O
ATOM	1006	N	ARG	109	48.681	64.589	21.284	1.00	0.00	N
ATOM	1007	HN	ARG	109	48.618	63.990	20.461	1.00	0.00	H
ATOM	1008	CA	ARG	109	49.932	65.221	21.612	1.00	0.00	C
ATOM	1009	CB	ARG	109	51.061	64.763	20.675	1.00	0.00	C
ATOM	1010	CG	ARG	109	51.289	63.255	20.793	1.00	0.00	C
ATOM	1011	CD	ARG	109	52.494	62.706	20.031	1.00	0.00	C
ATOM	1012	NE	ARG	109	52.588	61.265	20.399	1.00	0.00	N
ATOM	1013	HE	ARG	109	51.785	60.652	20.256	1.00	0.00	H
ATOM	1014	CZ	ARG	109	53.740	60.760	20.926	1.00	0.00	C
ATOM	1015	NH1	ARG	109	54.850	61.547	21.028	1.00	0.00	N
ATOM	1016	1HH1	ARG	109	54.822	62.515	20.707	1.00	0.00	H
ATOM	1017	2HH1	ARG	109	55.712	61.169	21.422	1.00	0.00	H
ATOM	1018	NH2	ARG	109	53.778	59.465	21.356	1.00	0.00	N
ATOM	1019	1HH2	ARG	109	52.948	58.877	21.280	1.00	0.00	H
ATOM	1020	2HH2	ARG	109	54.640	59.087	21.750	1.00	0.00	H
ATOM	1021	C	ARG	109	49.769	66.701	21.496	1.00	0.00	C
ATOM	1022	O	ARG	109	50.291	67.475	22.301	1.00	0.00	O
ATOM	1023	N	GLN	110	48.996	67.125	20.489	1.00	0.00	N
ATOM	1024	HN	GLN	110	48.531	66.437	19.897	1.00	0.00	H
ATOM	1025	CA	GLN	110	48.804	68.518	20.221	1.00	0.00	C
ATOM	1026	CB	GLN	110	47.728	68.736	19.145	1.00	0.00	C
ATOM	1027	CG	GLN	110	48.102	68.289	17.735	1.00	0.00	C
ATOM	1028	CD	GLN	110	48.481	69.548	16.977	1.00	0.00	C
ATOM	1029	OE1	GLN	110	49.648	69.932	16.932	1.00	0.00	O
ATOM	1030	NE2	GLN	110	47.460	70.221	16.380	1.00	0.00	N
ATOM	1031	1HE2	GLN	110	46.492	69.902	16.417	1.00	0.00	H
ATOM	1032	2HE2	GLN	110	47.715	71.067	15.871	1.00	0.00	H
ATOM	1033	C	GLN	110	48.235	69.175	21.440	1.00	0.00	C

ATOM	1034	O	GLN	110	48.664	70.256	21.845	1.00	0.00	O
ATOM	1035	N	ILE	111	47.218	68.541	22.045	1.00	0.00	N
ATOM	1036	HN	ILE	111	46.903	67.635	21.697	1.00	0.00	H
ATOM	1037	CA	ILE	111	46.575	69.135	23.177	1.00	0.00	C
ATOM	1038	CB	ILE	111	45.256	68.522	23.534	1.00	0.00	C
ATOM	1039	CG1	ILE	111	44.238	68.900	22.449	1.00	0.00	C
ATOM	1040	CG2	ILE	111	44.855	68.984	24.949	1.00	0.00	C
ATOM	1041	CD1	ILE	111	42.852	68.331	22.690	1.00	0.00	C
ATOM	1042	C	ILE	111	47.441	69.155	24.385	1.00	0.00	C
ATOM	1043	O	ILE	111	47.449	70.159	25.086	1.00	0.00	O
ATOM	1044	N	HIS	112	48.210	68.083	24.648	1.00	0.00	N
ATOM	1045	HN	HIS	112	48.237	67.319	23.973	1.00	0.00	H
ATOM	1046	CA	HIS	112	48.996	67.976	25.848	1.00	0.00	C
ATOM	1047	ND1	HIS	112	49.767	65.744	28.107	1.00	0.00	N
ATOM	1048	HD1	HIS	112	48.757	65.606	28.127	1.00	0.00	H
ATOM	1049	CG	HIS	112	50.500	66.291	27.079	1.00	0.00	C
ATOM	1050	CB	HIS	112	49.901	66.732	25.779	1.00	0.00	C
ATOM	1051	NE2	HIS	112	51.890	65.728	28.763	1.00	0.00	N
ATOM	1052	HE2	HIS	112	52.732	65.589	29.321	1.00	0.00	H
ATOM	1053	CD2	HIS	112	51.796	66.277	27.497	1.00	0.00	C
ATOM	1054	CE1	HIS	112	50.647	65.424	29.088	1.00	0.00	C
ATOM	1055	C	HIS	112	49.853	69.202	25.916	1.00	0.00	C
ATOM	1056	O	HIS	112	49.941	69.864	26.951	1.00	0.00	O
ATOM	1057	N	LYS	113	50.459	69.570	24.775	1.00	0.00	N
ATOM	1058	HN	LYS	113	50.335	69.011	23.931	1.00	0.00	H
ATOM	1059	CA	LYS	113	51.277	70.743	24.739	1.00	0.00	C
ATOM	1060	CB	LYS	113	51.860	71.022	23.342	1.00	0.00	C
ATOM	1061	CG	LYS	113	52.758	69.913	22.788	1.00	0.00	C
ATOM	1062	CD	LYS	113	53.989	69.610	23.643	1.00	0.00	C
ATOM	1063	CE	LYS	113	54.892	68.530	23.040	1.00	0.00	C
ATOM	1064	NZ	LYS	113	54.159	67.248	22.940	1.00	0.00	N
ATOM	1065	HZ1	LYS	113	54.760	66.529	22.538	1.00	0.00	H
ATOM	1066	HZ2	LYS	113	53.286	67.348	22.422	1.00	0.00	H
ATOM	1067	HZ3	LYS	113	53.769	66.961	23.838	1.00	0.00	H
ATOM	1068	C	LYS	113	50.413	71.922	25.063	1.00	0.00	C
ATOM	1069	O	LYS	113	50.763	72.766	25.891	1.00	0.00	O
ATOM	1070	N	ILE	114	49.221	71.984	24.443	1.00	0.00	N
ATOM	1071	HN	ILE	114	48.908	71.215	23.851	1.00	0.00	H
ATOM	1072	CA	ILE	114	48.394	73.141	24.622	1.00	0.00	C
ATOM	1073	CB	ILE	114	47.063	73.007	23.931	1.00	0.00	C
ATOM	1074	CG1	ILE	114	47.217	72.924	22.403	1.00	0.00	C
ATOM	1075	CG2	ILE	114	46.175	74.170	24.403	1.00	0.00	C
ATOM	1076	CD1	ILE	114	47.819	74.184	21.783	1.00	0.00	C
ATOM	1077	C	ILE	114	48.068	73.275	26.074	1.00	0.00	C
ATOM	1078	O	ILE	114	48.341	74.296	26.700	1.00	0.00	O
ATOM	1079	N	ARG	115	47.589	72.179	26.676	1.00	0.00	N
ATOM	1080	HN	ARG	115	47.623	71.292	26.174	1.00	0.00	H
ATOM	1081	CA	ARG	115	47.035	72.201	27.987	1.00	0.00	C
ATOM	1082	CB	ARG	115	46.643	70.804	28.487	1.00	0.00	C
ATOM	1083	CG	ARG	115	45.692	70.843	29.683	1.00	0.00	C
ATOM	1084	CD	ARG	115	45.237	69.460	30.145	1.00	0.00	C
ATOM	1085	NE	ARG	115	44.664	68.759	28.962	1.00	0.00	N
ATOM	1086	HE	ARG	115	45.240	68.102	28.436	1.00	0.00	H
ATOM	1087	CZ	ARG	115	43.374	68.989	28.576	1.00	0.00	C
ATOM	1088	NH1	ARG	115	42.609	69.906	29.235	1.00	0.00	N
ATOM	1089	1HH1	ARG	115	43.000	70.418	30.026	1.00	0.00	H
ATOM	1090	2HH1	ARG	115	41.646	70.078	28.947	1.00	0.00	H
ATOM	1091	NH2	ARG	115	42.851	68.303	27.517	1.00	0.00	N
ATOM	1092	1HH2	ARG	115	43.423	67.617	27.024	1.00	0.00	H
ATOM	1093	2HH2	ARG	115	41.888	68.475	27.229	1.00	0.00	H
ATOM	1094	C	ARG	115	47.999	72.788	28.969	1.00	0.00	C
ATOM	1095	O	ARG	115	47.634	73.695	29.716	1.00	0.00	O
ATOM	1096	N	LYS	116	49.262	72.330	28.966	1.00	0.00	N
ATOM	1097	HN	LYS	116	49.550	71.651	28.262	1.00	0.00	H
ATOM	1098	CA	LYS	116	50.214	72.786	29.944	1.00	0.00	C
ATOM	1099	CB	LYS	116	51.576	72.093	29.781	1.00	0.00	C
ATOM	1100	CG	LYS	116	52.628	72.537	30.797	1.00	0.00	C
ATOM	1101	CD	LYS	116	53.895	71.680	30.768	1.00	0.00	C
ATOM	1102	CE	LYS	116	54.673	71.808	29.457	1.00	0.00	C
ATOM	1103	NZ	LYS	116	55.066	73.218	29.237	1.00	0.00	N
ATOM	1104	HZ1	LYS	116	55.585	73.303	28.363	1.00	0.00	H
ATOM	1105	HZ2	LYS	116	55.585	73.598	30.028	1.00	0.00	H
ATOM	1106	HZ3	LYS	116	54.264	73.848	29.269	1.00	0.00	H
ATOM	1107	C	LYS	116	50.445	74.251	29.797	1.00	0.00	C

ATOM	1108	O	LYS	116	50.496	74.988	30.784	1.00	0.00	O
ATOM	1109	N	GLN	117	50.567	74.719	28.545	1.00	0.00	N
ATOM	1110	HN	GLN	117	50.427	74.103	27.745	1.00	0.00	H
ATOM	1111	CA	GLN	117	50.897	76.097	28.353	1.00	0.00	C
ATOM	1112	CB	GLN	117	50.974	76.466	26.863	1.00	0.00	C
ATOM	1113	CG	GLN	117	51.556	77.855	26.604	1.00	0.00	C
ATOM	1114	CD	GLN	117	53.070	77.728	26.683	1.00	0.00	C
ATOM	1115	OE1	GLN	117	53.720	78.371	27.505	1.00	0.00	O
ATOM	1116	NE2	GLN	117	53.650	76.869	25.801	1.00	0.00	N
ATOM	1117	1HE2	GLN	117	54.665	76.784	25.854	1.00	0.00	H
ATOM	1118	2HE2	GLN	117	53.111	76.336	25.119	1.00	0.00	H
ATOM	1119	C	GLN	117	49.807	76.918	28.956	1.00	0.00	C
ATOM	1120	O	GLN	117	50.062	77.861	29.703	1.00	0.00	O
ATOM	1121	N	PHE	118	48.552	76.529	28.678	1.00	0.00	N
ATOM	1122	HN	PHE	118	48.405	75.663	28.159	1.00	0.00	H
ATOM	1123	CA	PHE	118	47.416	77.295	29.089	1.00	0.00	C
ATOM	1124	CB	PHE	118	46.112	76.779	28.450	1.00	0.00	C
ATOM	1125	CG	PHE	118	45.072	77.846	28.542	1.00	0.00	C
ATOM	1126	CD1	PHE	118	45.338	79.100	28.041	1.00	0.00	C
ATOM	1127	CD2	PHE	118	43.859	77.632	29.151	1.00	0.00	C
ATOM	1128	CE1	PHE	118	44.411	80.113	28.105	1.00	0.00	C
ATOM	1129	CE2	PHE	118	42.926	78.643	29.214	1.00	0.00	C
ATOM	1130	CZ	PHE	118	43.192	79.884	28.690	1.00	0.00	C
ATOM	1131	C	PHE	118	47.314	77.297	30.585	1.00	0.00	C
ATOM	1132	O	PHE	118	47.012	78.335	31.174	1.00	0.00	O
ATOM	1133	N	PHE	119	47.589	76.154	31.254	1.00	0.00	N
ATOM	1134	HN	PHE	119	47.908	75.324	30.755	1.00	0.00	H
ATOM	1135	CA	PHE	119	47.423	76.132	32.685	1.00	0.00	C
ATOM	1136	CB	PHE	119	47.818	74.820	33.385	1.00	0.00	C
ATOM	1137	CG	PHE	119	46.726	73.821	33.256	1.00	0.00	C
ATOM	1138	CD1	PHE	119	45.425	74.173	33.535	1.00	0.00	C
ATOM	1139	CD2	PHE	119	47.009	72.517	32.933	1.00	0.00	C
ATOM	1140	CE1	PHE	119	44.411	73.251	33.438	1.00	0.00	C
ATOM	1141	CE2	PHE	119	46.000	71.590	32.839	1.00	0.00	C
ATOM	1142	CZ	PHE	119	44.698	71.955	33.085	1.00	0.00	C
ATOM	1143	C	PHE	119	48.260	77.200	33.336	1.00	0.00	C
ATOM	1144	O	PHE	119	47.739	78.023	34.086	1.00	0.00	O
ATOM	1145	N	HIS	120	49.574	77.232	33.047	1.00	0.00	N
ATOM	1146	HN	HIS	120	49.946	76.531	32.406	1.00	0.00	H
ATOM	1147	CA	HIS	120	50.483	78.207	33.597	1.00	0.00	C
ATOM	1148	ND1	HIS	120	53.669	79.106	34.523	1.00	0.00	N
ATOM	1149	HD1	HIS	120	53.706	78.398	35.256	1.00	0.00	H
ATOM	1150	CG	HIS	120	52.869	79.089	33.404	1.00	0.00	C
ATOM	1151	CB	HIS	120	51.908	77.992	33.060	1.00	0.00	C
ATOM	1152	NE2	HIS	120	54.123	80.964	33.388	1.00	0.00	N
ATOM	1153	HE2	HIS	120	54.530	81.857	33.111	1.00	0.00	H
ATOM	1154	CD2	HIS	120	53.158	80.231	32.722	1.00	0.00	C
ATOM	1155	CE1	HIS	120	54.399	80.248	34.462	1.00	0.00	C
ATOM	1156	C	HIS	120	50.049	79.551	33.133	1.00	0.00	C
ATOM	1157	O	HIS	120	50.154	80.538	33.862	1.00	0.00	O
ATOM	1158	N	ALA	121	49.565	79.624	31.884	1.00	0.00	N
ATOM	1159	HN	ALA	121	49.447	78.785	31.316	1.00	0.00	H
ATOM	1160	CA	ALA	121	49.219	80.916	31.374	1.00	0.00	C
ATOM	1161	CB	ALA	121	48.710	80.861	29.923	1.00	0.00	C
ATOM	1162	C	ALA	121	48.135	81.507	32.208	1.00	0.00	C
ATOM	1163	O	ALA	121	48.294	82.622	32.704	1.00	0.00	O
ATOM	1164	N	ILE	122	47.055	80.735	32.469	1.00	0.00	N
ATOM	1165	HN	ILE	122	47.031	79.766	32.152	1.00	0.00	H
ATOM	1166	CA	ILE	122	45.941	81.282	33.194	1.00	0.00	C
ATOM	1167	CB	ILE	122	44.854	80.285	33.470	1.00	0.00	C
ATOM	1168	CG1	ILE	122	44.183	79.844	32.163	1.00	0.00	C
ATOM	1169	CG2	ILE	122	43.872	80.919	34.471	1.00	0.00	C
ATOM	1170	CD1	ILE	122	43.461	80.982	31.442	1.00	0.00	C
ATOM	1171	C	ILE	122	46.450	81.751	34.518	1.00	0.00	C
ATOM	1172	O	ILE	122	46.178	82.873	34.928	1.00	0.00	O
ATOM	1173	N	MET	123	47.300	80.945	35.168	1.00	0.00	N
ATOM	1174	HN	MET	123	47.610	80.094	34.699	1.00	0.00	H
ATOM	1175	CA	MET	123	47.800	81.211	36.487	1.00	0.00	C
ATOM	1176	CB	MET	123	48.686	80.069	37.010	1.00	0.00	C
ATOM	1177	CG	MET	123	47.901	78.771	37.210	1.00	0.00	C
ATOM	1178	SD	MET	123	46.569	78.898	38.441	1.00	0.00	S
ATOM	1179	CE	MET	123	47.698	79.041	39.857	1.00	0.00	C
ATOM	1180	C	MET	123	48.591	82.482	36.533	1.00	0.00	C
ATOM	1181	O	MET	123	48.794	83.028	37.612	1.00	0.00	O

ATOM	1182	N	ARG	124	49.231	82.876	35.423	1.00	0.00	N
ATOM	1183	HN	ARG	124	49.214	82.269	34.604	1.00	0.00	H
ATOM	1184	CA	ARG	124	49.944	84.131	35.346	1.00	0.00	C
ATOM	1185	CB	ARG	124	51.167	84.092	34.416	1.00	0.00	C
ATOM	1186	CG	ARG	124	52.341	83.353	35.061	1.00	0.00	C
ATOM	1187	CD	ARG	124	53.702	83.664	34.438	1.00	0.00	C
ATOM	1188	NE	ARG	124	54.737	83.050	35.318	1.00	0.00	N
ATOM	1189	HE	ARG	124	55.114	82.129	35.095	1.00	0.00	H
ATOM	1190	CZ	ARG	124	55.181	83.720	36.422	1.00	0.00	C
ATOM	1191	NH1	ARG	124	54.681	84.955	36.719	1.00	0.00	N
ATOM	1192	1HH1	ARG	124	53.977	85.378	36.114	1.00	0.00	H
ATOM	1193	2HH1	ARG	124	55.013	85.455	37.544	1.00	0.00	H
ATOM	1194	NH2	ARG	124	56.123	83.153	37.232	1.00	0.00	N
ATOM	1195	1HH2	ARG	124	56.497	82.230	37.010	1.00	0.00	H
ATOM	1196	2HH2	ARG	124	56.455	83.653	38.057	1.00	0.00	H
ATOM	1197	C	ARG	124	49.110	85.327	34.985	1.00	0.00	C
ATOM	1198	O	ARG	124	49.515	86.455	35.258	1.00	0.00	O
ATOM	1199	N	GLN	125	47.941	85.126	34.347	1.00	0.00	N
ATOM	1200	HN	GLN	125	47.601	84.169	34.256	1.00	0.00	H
ATOM	1201	CA	GLN	125	47.142	86.190	33.785	1.00	0.00	C
ATOM	1202	CB	GLN	125	45.801	85.695	33.200	1.00	0.00	C
ATOM	1203	CG	GLN	125	44.924	86.808	32.612	1.00	0.00	C
ATOM	1204	CD	GLN	125	43.631	86.200	32.070	1.00	0.00	C
ATOM	1205	OE1	GLN	125	43.024	85.332	32.697	1.00	0.00	O
ATOM	1206	NE2	GLN	125	43.196	86.667	30.870	1.00	0.00	N
ATOM	1207	1HE2	GLN	125	43.699	87.386	30.350	1.00	0.00	H
ATOM	1208	2HE2	GLN	125	42.333	86.261	30.508	1.00	0.00	H
ATOM	1209	C	GLN	125	46.840	87.185	34.852	1.00	0.00	C
ATOM	1210	O	GLN	125	46.548	88.345	34.560	1.00	0.00	O
ATOM	1211	N	GLU	126	46.818	86.730	36.115	1.00	0.00	N
ATOM	1212	HN	GLU	126	46.958	85.735	36.290	1.00	0.00	H
ATOM	1213	CA	GLU	126	46.604	87.607	37.214	1.00	0.00	C
ATOM	1214	CB	GLU	126	47.771	88.563	37.503	1.00	0.00	C
ATOM	1215	CG	GLU	126	48.807	87.947	38.458	1.00	0.00	C
ATOM	1216	CD	GLU	126	49.155	86.519	38.043	1.00	0.00	C
ATOM	1217	OE1	GLU	126	48.261	85.634	38.132	1.00	0.00	O
ATOM	1218	OE2	GLU	126	50.332	86.290	37.654	1.00	0.00	O
ATOM	1219	C	GLU	126	45.284	88.297	37.134	1.00	0.00	C
ATOM	1220	O	GLU	126	44.260	87.700	36.821	1.00	0.00	O
ATOM	1221	N	ILE	127	45.293	89.606	37.381	1.00	0.00	N
ATOM	1222	HN	ILE	127	46.199	90.073	37.413	1.00	0.00	H
ATOM	1223	CA	ILE	127	44.134	90.405	37.604	1.00	0.00	C
ATOM	1224	CB	ILE	127	44.516	91.840	37.735	1.00	0.00	C
ATOM	1225	CG1	ILE	127	45.792	91.921	38.584	1.00	0.00	C
ATOM	1226	CG2	ILE	127	43.321	92.607	38.326	1.00	0.00	C
ATOM	1227	CD1	ILE	127	45.733	91.079	39.853	1.00	0.00	C
ATOM	1228	C	ILE	127	43.127	90.344	36.498	1.00	0.00	C
ATOM	1229	O	ILE	127	41.953	90.620	36.734	1.00	0.00	O
ATOM	1230	N	GLY	128	43.557	90.104	35.251	1.00	0.00	N
ATOM	1231	HN	GLY	128	44.552	89.951	35.086	1.00	0.00	H
ATOM	1232	CA	GLY	128	42.641	90.058	34.139	1.00	0.00	C
ATOM	1233	C	GLY	128	41.674	88.944	34.349	1.00	0.00	C
ATOM	1234	O	GLY	128	40.545	88.957	33.861	1.00	0.00	O
ATOM	1235	N	TRP	129	42.148	87.926	35.065	1.00	0.00	N
ATOM	1236	HN	TRP	129	43.108	88.009	35.401	1.00	0.00	H
ATOM	1237	CA	TRP	129	41.447	86.730	35.410	1.00	0.00	C
ATOM	1238	CB	TRP	129	42.424	85.793	36.147	1.00	0.00	C
ATOM	1239	CG	TRP	129	41.939	84.605	36.932	1.00	0.00	C
ATOM	1240	CD2	TRP	129	42.683	84.123	38.062	1.00	0.00	C
ATOM	1241	CD1	TRP	129	40.910	83.732	36.743	1.00	0.00	C
ATOM	1242	NE1	TRP	129	40.950	82.749	37.709	1.00	0.00	N
ATOM	1243	HE1	TRP	129	40.283	81.984	37.808	1.00	0.00	H
ATOM	1244	CE2	TRP	129	42.044	82.974	38.519	1.00	0.00	C
ATOM	1245	CE3	TRP	129	43.819	84.597	38.656	1.00	0.00	C
ATOM	1246	CZ2	TRP	129	42.533	82.276	39.589	1.00	0.00	C
ATOM	1247	CZ3	TRP	129	44.305	83.900	39.740	1.00	0.00	C
ATOM	1248	CH2	TRP	129	43.673	82.761	40.197	1.00	0.00	C
ATOM	1249	C	TRP	129	40.239	87.089	36.202	1.00	0.00	C
ATOM	1250	O	TRP	129	39.332	86.274	36.332	1.00	0.00	O
ATOM	1251	N	PHE	130	40.287	88.211	36.934	1.00	0.00	N
ATOM	1252	HN	PHE	130	41.191	88.658	37.085	1.00	0.00	H
ATOM	1253	CA	PHE	130	39.120	88.807	37.512	1.00	0.00	C
ATOM	1254	CB	PHE	130	39.455	89.587	38.793	1.00	0.00	C
ATOM	1255	CG	PHE	130	38.171	89.912	39.469	1.00	0.00	C

ATOM	1256	CD1	PHE	130	37.584	88.996	40.312	1.00	0.00	C
ATOM	1257	CD2	PHE	130	37.554	91.124	39.261	1.00	0.00	C
ATOM	1258	CE1	PHE	130	36.397	89.285	40.941	1.00	0.00	C
ATOM	1259	CE2	PHE	130	36.366	91.417	39.888	1.00	0.00	C
ATOM	1260	CZ	PHE	130	35.787	90.498	40.731	1.00	0.00	C
ATOM	1261	C	PHE	130	38.539	89.791	36.519	1.00	0.00	C
ATOM	1262	O	PHE	130	37.331	90.015	36.465	1.00	0.00	O
ATOM	1263	N	ASP	131	39.417	90.421	35.703	1.00	0.00	N
ATOM	1264	HN	ASP	131	40.385	90.099	35.704	1.00	0.00	H
ATOM	1265	CA	ASP	131	39.073	91.517	34.833	1.00	0.00	C
ATOM	1266	CB	ASP	131	40.254	91.951	33.949	1.00	0.00	C
ATOM	1267	CG	ASP	131	41.302	92.575	34.858	1.00	0.00	C
ATOM	1268	OD1	ASP	131	40.962	92.847	36.040	1.00	0.00	O
ATOM	1269	OD2	ASP	131	42.451	92.788	34.386	1.00	0.00	O
ATOM	1270	C	ASP	131	37.958	91.156	33.945	1.00	0.00	C
ATOM	1271	O	ASP	131	36.952	91.855	33.849	1.00	0.00	O
ATOM	1272	N	VAL	132	38.094	90.030	33.268	1.00	0.00	N
ATOM	1273	HN	VAL	132	38.937	89.460	33.336	1.00	0.00	H
ATOM	1274	CA	VAL	132	37.010	89.658	32.446	1.00	0.00	C
ATOM	1275	CB	VAL	132	37.315	89.746	30.979	1.00	0.00	C
ATOM	1276	CG1	VAL	132	37.544	91.226	30.628	1.00	0.00	C
ATOM	1277	CG2	VAL	132	38.536	88.863	30.674	1.00	0.00	C
ATOM	1278	C	VAL	132	36.850	88.252	32.814	1.00	0.00	C
ATOM	1279	O	VAL	132	37.360	87.820	33.847	1.00	0.00	O
ATOM	1280	N	HIS	133	36.080	87.528	32.010	1.00	0.00	N
ATOM	1281	HN	HIS	133	35.580	87.967	31.237	1.00	0.00	H
ATOM	1282	CA	HIS	133	35.965	86.133	32.245	1.00	0.00	C
ATOM	1283	ND1	HIS	133	38.429	85.181	30.292	1.00	0.00	N
ATOM	1284	HD1	HIS	133	37.686	84.662	29.824	1.00	0.00	H
ATOM	1285	CG	HIS	133	38.420	85.635	31.591	1.00	0.00	C
ATOM	1286	CB	HIS	133	37.296	85.410	32.564	1.00	0.00	C
ATOM	1287	NE2	HIS	133	40.371	86.218	30.613	1.00	0.00	N
ATOM	1288	HE2	HIS	133	41.302	86.605	30.458	1.00	0.00	H
ATOM	1289	CD2	HIS	133	39.615	86.267	31.771	1.00	0.00	C
ATOM	1290	CE1	HIS	133	39.617	85.557	29.754	1.00	0.00	C
ATOM	1291	C	HIS	133	35.052	85.886	33.404	1.00	0.00	C
ATOM	1292	O	HIS	133	35.289	86.351	34.518	1.00	0.00	O
ATOM	1293	N	ASP	134	33.986	85.098	33.162	1.00	0.00	N
ATOM	1294	HN	ASP	134	33.826	84.755	32.215	1.00	0.00	H
ATOM	1295	CA	ASP	134	33.071	84.730	34.202	1.00	0.00	C
ATOM	1296	CB	ASP	134	31.885	83.883	33.710	1.00	0.00	C
ATOM	1297	CG	ASP	134	31.003	84.766	32.839	1.00	0.00	C
ATOM	1298	OD1	ASP	134	31.147	86.014	32.928	1.00	0.00	O
ATOM	1299	OD2	ASP	134	30.173	84.205	32.074	1.00	0.00	O
ATOM	1300	C	ASP	134	33.872	83.894	35.143	1.00	0.00	C
ATOM	1301	O	ASP	134	33.509	83.695	36.300	1.00	0.00	O
ATOM	1302	N	VAL	135	34.961	83.319	34.602	1.00	0.00	N
ATOM	1303	HN	VAL	135	35.125	83.496	33.611	1.00	0.00	H
ATOM	1304	CA	VAL	135	35.917	82.482	35.271	1.00	0.00	C
ATOM	1305	CB	VAL	135	36.313	82.994	36.625	1.00	0.00	C
ATOM	1306	CG1	VAL	135	37.238	81.955	37.284	1.00	0.00	C
ATOM	1307	CG2	VAL	135	36.954	84.383	36.458	1.00	0.00	C
ATOM	1308	C	VAL	135	35.275	81.144	35.455	1.00	0.00	C
ATOM	1309	O	VAL	135	35.961	80.121	35.457	1.00	0.00	O
ATOM	1310	N	GLY	136	33.933	81.121	35.609	1.00	0.00	N
ATOM	1311	HN	GLY	136	33.425	81.999	35.717	1.00	0.00	H
ATOM	1312	CA	GLY	136	33.215	79.886	35.623	1.00	0.00	C
ATOM	1313	C	GLY	136	33.222	79.445	34.205	1.00	0.00	C
ATOM	1314	O	GLY	136	33.516	78.299	33.875	1.00	0.00	O
ATOM	1315	N	GLU	137	32.917	80.414	33.324	1.00	0.00	N
ATOM	1316	HN	GLU	137	32.704	81.346	33.679	1.00	0.00	H
ATOM	1317	CA	GLU	137	32.878	80.197	31.916	1.00	0.00	C
ATOM	1318	CB	GLU	137	32.308	81.398	31.130	1.00	0.00	C
ATOM	1319	CG	GLU	137	33.078	82.710	31.287	1.00	0.00	C
ATOM	1320	CD	GLU	137	34.149	82.789	30.214	1.00	0.00	C
ATOM	1321	OE1	GLU	137	33.779	82.795	29.009	1.00	0.00	O
ATOM	1322	OE2	GLU	137	35.350	82.853	30.587	1.00	0.00	O
ATOM	1323	C	GLU	137	34.286	79.909	31.471	1.00	0.00	C
ATOM	1324	O	GLU	137	34.491	79.266	30.446	1.00	0.00	O
ATOM	1325	N	LEU	138	35.296	80.442	32.194	1.00	0.00	N
ATOM	1326	HN	LEU	138	35.065	80.990	33.023	1.00	0.00	H
ATOM	1327	CA	LEU	138	36.692	80.271	31.846	1.00	0.00	C
ATOM	1328	CB	LEU	138	37.614	81.195	32.685	1.00	0.00	C
ATOM	1329	CG	LEU	138	39.133	81.210	32.350	1.00	0.00	C

ATOM	1330	CD1	LEU	138	39.838	82.317	33.150	1.00	0.00	C
ATOM	1331	CD2	LEU	138	39.852	79.866	32.581	1.00	0.00	C
ATOM	1332	C	LEU	138	37.171	78.864	31.999	1.00	0.00	C
ATOM	1333	O	LEU	138	37.637	78.273	31.034	1.00	0.00	O
ATOM	1334	N	ASN	139	37.070	78.262	33.196	1.00	0.00	N
ATOM	1335	HN	ASN	139	36.626	78.737	33.982	1.00	0.00	H
ATOM	1336	CA	ASN	139	37.600	76.936	33.345	1.00	0.00	C
ATOM	1337	CB	ASN	139	37.583	76.430	34.796	1.00	0.00	C
ATOM	1338	CG	ASN	139	36.173	76.575	35.333	1.00	0.00	C
ATOM	1339	OD1	ASN	139	35.834	77.597	35.928	1.00	0.00	O
ATOM	1340	ND2	ASN	139	35.320	75.540	35.109	1.00	0.00	N
ATOM	1341	1HD2	ASN	139	35.601	74.693	34.616	1.00	0.00	H
ATOM	1342	2HD2	ASN	139	34.371	75.638	35.470	1.00	0.00	H
ATOM	1343	C	ASN	139	36.777	76.059	32.479	1.00	0.00	C
ATOM	1344	O	ASN	139	37.300	75.121	31.878	1.00	0.00	O
ATOM	1345	N	THR	140	35.467	76.369	32.367	1.00	0.00	N
ATOM	1346	HN	THR	140	35.071	77.161	32.874	1.00	0.00	H
ATOM	1347	CA	THR	140	34.650	75.558	31.519	1.00	0.00	C
ATOM	1348	CB	THR	140	33.193	75.937	31.443	1.00	0.00	C
ATOM	1349	OG1	THR	140	33.011	77.214	30.858	1.00	0.00	O
ATOM	1350	HG1	THR	140	33.372	77.228	29.980	1.00	0.00	H
ATOM	1351	CG2	THR	140	32.610	75.914	32.860	1.00	0.00	C
ATOM	1352	C	THR	140	35.262	75.686	30.165	1.00	0.00	C
ATOM	1353	O	THR	140	35.334	74.708	29.429	1.00	0.00	O
ATOM	1354	N	ARG	141	35.755	76.899	29.841	1.00	0.00	N
ATOM	1355	HN	ARG	141	35.629	77.656	30.513	1.00	0.00	H
ATOM	1356	CA	ARG	141	36.446	77.202	28.616	1.00	0.00	C
ATOM	1357	CB	ARG	141	36.777	78.698	28.474	1.00	0.00	C
ATOM	1358	CG	ARG	141	37.972	78.974	27.561	1.00	0.00	C
ATOM	1359	CD	ARG	141	38.255	80.462	27.344	1.00	0.00	C
ATOM	1360	NE	ARG	141	37.334	80.931	26.271	1.00	0.00	N
ATOM	1361	HE	ARG	141	37.671	80.996	25.310	1.00	0.00	H
ATOM	1362	CZ	ARG	141	36.046	81.274	26.558	1.00	0.00	C
ATOM	1363	NH1	ARG	141	35.600	81.238	27.847	1.00	0.00	N
ATOM	1364	1HH1	ARG	141	36.230	80.966	28.601	1.00	0.00	H
ATOM	1365	2HH1	ARG	141	34.636	81.495	28.062	1.00	0.00	H
ATOM	1366	NH2	ARG	141	35.203	81.638	25.549	1.00	0.00	N
ATOM	1367	1HH2	ARG	141	35.536	81.665	24.585	1.00	0.00	H
ATOM	1368	2HH2	ARG	141	34.239	81.895	25.764	1.00	0.00	H
ATOM	1369	C	ARG	141	37.739	76.443	28.521	1.00	0.00	C
ATOM	1370	O	ARG	141	38.121	76.038	27.427	1.00	0.00	O
ATOM	1371	N	LEU	142	38.466	76.240	29.640	1.00	0.00	N
ATOM	1372	HN	LEU	142	38.119	76.562	30.544	1.00	0.00	H
ATOM	1373	CA	LEU	142	39.734	75.566	29.548	1.00	0.00	C
ATOM	1374	CB	LEU	142	40.297	75.127	30.901	1.00	0.00	C
ATOM	1375	CG	LEU	142	40.597	76.194	31.947	1.00	0.00	C
ATOM	1376	CD1	LEU	142	41.138	75.491	33.193	1.00	0.00	C
ATOM	1377	CD2	LEU	142	41.557	77.269	31.427	1.00	0.00	C
ATOM	1378	C	LEU	142	39.476	74.232	28.957	1.00	0.00	C
ATOM	1379	O	LEU	142	40.043	73.881	27.926	1.00	0.00	O
ATOM	1380	N	THR	143	38.601	73.459	29.627	1.00	0.00	N
ATOM	1381	HN	THR	143	38.128	73.825	30.453	1.00	0.00	H
ATOM	1382	CA	THR	143	38.332	72.128	29.185	1.00	0.00	C
ATOM	1383	CB	THR	143	37.639	71.282	30.216	1.00	0.00	C
ATOM	1384	OG1	THR	143	37.590	69.935	29.771	1.00	0.00	O
ATOM	1385	HG1	THR	143	37.152	69.400	30.423	1.00	0.00	H
ATOM	1386	CG2	THR	143	36.221	71.813	30.466	1.00	0.00	C
ATOM	1387	C	THR	143	37.519	72.115	27.934	1.00	0.00	C
ATOM	1388	O	THR	143	37.879	71.422	26.987	1.00	0.00	O
ATOM	1389	N	ASP	144	36.415	72.889	27.862	1.00	0.00	N
ATOM	1390	HN	ASP	144	36.172	73.554	28.597	1.00	0.00	H
ATOM	1391	CA	ASP	144	35.605	72.721	26.692	1.00	0.00	C
ATOM	1392	CB	ASP	144	34.166	73.300	26.748	1.00	0.00	C
ATOM	1393	CG	ASP	144	34.107	74.816	26.721	1.00	0.00	C
ATOM	1394	OD1	ASP	144	35.153	75.465	26.963	1.00	0.00	O
ATOM	1395	OD2	ASP	144	32.999	75.348	26.441	1.00	0.00	O
ATOM	1396	C	ASP	144	36.336	73.214	25.481	1.00	0.00	C
ATOM	1397	O	ASP	144	36.245	72.582	24.434	1.00	0.00	O
ATOM	1398	N	ASP	145	37.070	74.346	25.576	1.00	0.00	N
ATOM	1399	HN	ASP	145	37.118	74.835	26.470	1.00	0.00	H
ATOM	1400	CA	ASP	145	37.783	74.876	24.448	1.00	0.00	C
ATOM	1401	CB	ASP	145	38.348	76.284	24.699	1.00	0.00	C
ATOM	1402	CG	ASP	145	37.156	77.229	24.776	1.00	0.00	C
ATOM	1403	OD1	ASP	145	36.004	76.721	24.830	1.00	0.00	O

ATOM	1404	OD2	ASP	145	37.380	78.468	24.787	1.00	0.00	O
ATOM	1405	C	ASP	145	38.911	73.967	24.087	1.00	0.00	C
ATOM	1406	O	ASP	145	39.046	73.596	22.924	1.00	0.00	O
ATOM	1407	N	VAL	146	39.706	73.530	25.087	1.00	0.00	N
ATOM	1408	HN	VAL	146	39.494	73.797	26.048	1.00	0.00	H
ATOM	1409	CA	VAL	146	40.844	72.697	24.821	1.00	0.00	C
ATOM	1410	CB	VAL	146	41.556	72.260	26.077	1.00	0.00	C
ATOM	1411	CG1	VAL	146	40.621	71.391	26.933	1.00	0.00	C
ATOM	1412	CG2	VAL	146	42.861	71.555	25.675	1.00	0.00	C
ATOM	1413	C	VAL	146	40.322	71.498	24.077	1.00	0.00	C
ATOM	1414	O	VAL	146	40.867	71.123	23.041	1.00	0.00	O
ATOM	1415	N	SER	147	39.189	70.935	24.545	1.00	0.00	N
ATOM	1416	HN	SER	147	38.751	71.354	25.365	1.00	0.00	H
ATOM	1417	CA	SER	147	38.560	69.782	23.962	1.00	0.00	C
ATOM	1418	CB	SER	147	37.346	69.301	24.774	1.00	0.00	C
ATOM	1419	OG	SER	147	37.751	68.918	26.080	1.00	0.00	O
ATOM	1420	HG	SER	147	37.001	68.621	26.582	1.00	0.00	H
ATOM	1421	C	SER	147	38.065	70.105	22.570	1.00	0.00	C
ATOM	1422	O	SER	147	38.243	69.317	21.646	1.00	0.00	O
ATOM	1423	N	LYS	148	37.468	71.296	22.368	1.00	0.00	N
ATOM	1424	HN	LYS	148	37.453	71.962	23.141	1.00	0.00	H
ATOM	1425	CA	LYS	148	36.851	71.685	21.128	1.00	0.00	C
ATOM	1426	CB	LYS	148	36.292	73.116	21.212	1.00	0.00	C
ATOM	1427	CG	LYS	148	35.115	73.402	20.280	1.00	0.00	C
ATOM	1428	CD	LYS	148	35.392	73.169	18.798	1.00	0.00	C
ATOM	1429	CE	LYS	148	34.174	73.479	17.930	1.00	0.00	C
ATOM	1430	NZ	LYS	148	32.987	72.754	18.437	1.00	0.00	N
ATOM	1431	HZ1	LYS	148	32.174	72.961	17.857	1.00	0.00	H
ATOM	1432	HZ2	LYS	148	32.813	72.951	19.423	1.00	0.00	H
ATOM	1433	HZ3	LYS	148	33.156	71.751	18.512	1.00	0.00	H
ATOM	1434	C	LYS	148	37.916	71.657	20.079	1.00	0.00	C
ATOM	1435	O	LYS	148	37.655	71.368	18.911	1.00	0.00	O
ATOM	1436	N	ILE	149	39.151	72.000	20.479	1.00	0.00	N
ATOM	1437	HN	ILE	149	39.289	72.286	21.448	1.00	0.00	H
ATOM	1438	CA	ILE	149	40.280	71.982	19.605	1.00	0.00	C
ATOM	1439	CB	ILE	149	41.495	72.455	20.326	1.00	0.00	C
ATOM	1440	CG1	ILE	149	41.195	73.858	20.867	1.00	0.00	C
ATOM	1441	CG2	ILE	149	42.704	72.395	19.376	1.00	0.00	C
ATOM	1442	CD1	ILE	149	42.158	74.312	21.949	1.00	0.00	C
ATOM	1443	C	ILE	149	40.477	70.552	19.214	1.00	0.00	C
ATOM	1444	O	ILE	149	40.622	70.231	18.036	1.00	0.00	O
ATOM	1445	N	ASN	150	40.409	69.649	20.211	1.00	0.00	N
ATOM	1446	HN	ASN	150	40.183	69.975	21.151	1.00	0.00	H
ATOM	1447	CA	ASN	150	40.641	68.250	20.007	1.00	0.00	C
ATOM	1448	CB	ASN	150	40.408	67.438	21.294	1.00	0.00	C
ATOM	1449	CG	ASN	150	41.027	66.061	21.124	1.00	0.00	C
ATOM	1450	OD1	ASN	150	40.723	65.340	20.175	1.00	0.00	O
ATOM	1451	ND2	ASN	150	41.931	65.689	22.069	1.00	0.00	N
ATOM	1452	1HD2	ASN	150	42.183	66.287	22.856	1.00	0.00	H
ATOM	1453	2HD2	ASN	150	42.347	64.765	21.955	1.00	0.00	H
ATOM	1454	C	ASN	150	39.671	67.760	18.969	1.00	0.00	C
ATOM	1455	O	ASN	150	40.061	67.157	17.971	1.00	0.00	O
ATOM	1456	N	GLU	151	38.377	68.083	19.129	1.00	0.00	N
ATOM	1457	HN	GLU	151	38.101	68.681	19.908	1.00	0.00	H
ATOM	1458	CA	GLU	151	37.376	67.600	18.221	1.00	0.00	C
ATOM	1459	CB	GLU	151	35.976	68.157	18.529	1.00	0.00	C
ATOM	1460	CG	GLU	151	35.396	67.706	19.870	1.00	0.00	C
ATOM	1461	CD	GLU	151	34.023	68.348	20.013	1.00	0.00	C
ATOM	1462	OE1	GLU	151	33.137	68.049	19.167	1.00	0.00	O
ATOM	1463	OE2	GLU	151	33.844	69.154	20.964	1.00	0.00	O
ATOM	1464	C	GLU	151	37.737	68.103	16.856	1.00	0.00	C
ATOM	1465	O	GLU	151	37.562	67.403	15.860	1.00	0.00	O
ATOM	1466	N	GLY	152	38.281	69.333	16.783	1.00	0.00	N
ATOM	1467	HN	GLY	152	38.478	69.846	17.643	1.00	0.00	H
ATOM	1468	CA	GLY	152	38.587	69.933	15.521	1.00	0.00	C
ATOM	1469	C	GLY	152	39.547	69.061	14.767	1.00	0.00	C
ATOM	1470	O	GLY	152	39.402	68.889	13.558	1.00	0.00	O
ATOM	1471	N	ILE	153	40.574	68.515	15.449	1.00	0.00	N
ATOM	1472	HN	ILE	153	40.632	68.639	16.460	1.00	0.00	H
ATOM	1473	CA	ILE	153	41.591	67.758	14.763	1.00	0.00	C
ATOM	1474	CB	ILE	153	42.785	67.517	15.638	1.00	0.00	C
ATOM	1475	CG1	ILE	153	43.303	68.859	16.180	1.00	0.00	C
ATOM	1476	CG2	ILE	153	43.831	66.743	14.818	1.00	0.00	C
ATOM	1477	CD1	ILE	153	43.604	69.882	15.087	1.00	0.00	C

ATOM	1478	C	ILE	153	41.146	66.401	14.235	1.00	0.00	C
ATOM	1479	O	ILE	153	41.278	66.131	13.042	1.00	0.00	O
ATOM	1480	N	GLY	154	40.599	65.511	15.098	1.00	0.00	N
ATOM	1481	HN	GLY	154	40.452	65.808	16.063	1.00	0.00	H
ATOM	1482	CA	GLY	154	40.210	64.161	14.734	1.00	0.00	C
ATOM	1483	C	GLY	154	39.048	64.158	13.778	1.00	0.00	C
ATOM	1484	O	GLY	154	38.923	63.277	12.932	1.00	0.00	O
ATOM	1485	N	ASP	155	38.098	65.090	13.950	1.00	0.00	N
ATOM	1486	HN	ASP	155	38.195	65.766	14.708	1.00	0.00	H
ATOM	1487	CA	ASP	155	36.948	65.159	13.093	1.00	0.00	C
ATOM	1488	CB	ASP	155	35.909	66.186	13.579	1.00	0.00	C
ATOM	1489	CG	ASP	155	35.330	65.704	14.904	1.00	0.00	C
ATOM	1490	OD1	ASP	155	35.678	64.571	15.331	1.00	0.00	O
ATOM	1491	OD2	ASP	155	34.531	66.467	15.508	1.00	0.00	O
ATOM	1492	C	ASP	155	37.392	65.596	11.740	1.00	0.00	C
ATOM	1493	O	ASP	155	36.917	65.073	10.737	1.00	0.00	O
ATOM	1494	N	LYS	156	38.351	66.542	11.688	1.00	0.00	N
ATOM	1495	HN	LYS	156	38.753	66.884	12.561	1.00	0.00	H
ATOM	1496	CA	LYS	156	38.826	67.084	10.448	1.00	0.00	C
ATOM	1497	CB	LYS	156	40.112	67.897	10.597	1.00	0.00	C
ATOM	1498	CG	LYS	156	40.712	68.254	9.238	1.00	0.00	C
ATOM	1499	CD	LYS	156	42.150	68.744	9.354	1.00	0.00	C
ATOM	1500	CE	LYS	156	43.025	67.725	10.094	1.00	0.00	C
ATOM	1501	NZ	LYS	156	42.606	66.345	9.742	1.00	0.00	N
ATOM	1502	HZ1	LYS	156	43.188	65.667	10.234	1.00	0.00	H
ATOM	1503	HZ2	LYS	156	42.609	66.190	8.734	1.00	0.00	H
ATOM	1504	HZ3	LYS	156	41.612	66.192	9.914	1.00	0.00	H
ATOM	1505	C	LYS	156	39.255	65.929	9.620	1.00	0.00	C
ATOM	1506	O	LYS	156	39.032	65.899	8.409	1.00	0.00	O
ATOM	1507	N	ILE	157	39.893	64.933	10.256	1.00	0.00	N
ATOM	1508	HN	ILE	157	40.066	64.950	11.261	1.00	0.00	H
ATOM	1509	CA	ILE	157	40.311	63.851	9.429	1.00	0.00	C
ATOM	1510	CB	ILE	157	41.313	62.877	10.017	1.00	0.00	C
ATOM	1511	CG1	ILE	157	41.732	61.833	8.973	1.00	0.00	C
ATOM	1512	CG2	ILE	157	40.791	62.220	11.288	1.00	0.00	C
ATOM	1513	CD1	ILE	157	40.700	60.740	8.686	1.00	0.00	C
ATOM	1514	C	ILE	157	39.104	63.194	8.839	1.00	0.00	C
ATOM	1515	O	ILE	157	39.088	62.921	7.642	1.00	0.00	O
ATOM	1516	N	GLY	158	38.027	63.008	9.623	1.00	0.00	N
ATOM	1517	HN	GLY	158	38.044	63.348	10.585	1.00	0.00	H
ATOM	1518	CA	GLY	158	36.852	62.339	9.131	1.00	0.00	C
ATOM	1519	C	GLY	158	36.374	63.008	7.876	1.00	0.00	C
ATOM	1520	O	GLY	158	36.054	62.332	6.899	1.00	0.00	O
ATOM	1521	N	MET	159	36.354	64.352	7.854	1.00	0.00	N
ATOM	1522	HN	MET	159	36.676	64.870	8.672	1.00	0.00	H
ATOM	1523	CA	MET	159	35.890	65.073	6.705	1.00	0.00	C
ATOM	1524	CB	MET	159	35.949	66.596	6.929	1.00	0.00	C
ATOM	1525	CG	MET	159	35.720	67.461	5.684	1.00	0.00	C
ATOM	1526	SD	MET	159	37.179	67.655	4.609	1.00	0.00	S
ATOM	1527	CE	MET	159	36.514	69.042	3.651	1.00	0.00	C
ATOM	1528	C	MET	159	36.736	64.765	5.513	1.00	0.00	C
ATOM	1529	O	MET	159	36.207	64.405	4.465	1.00	0.00	O
ATOM	1530	N	PHE	160	38.074	64.808	5.673	1.00	0.00	N
ATOM	1531	HN	PHE	160	38.446	64.923	6.616	1.00	0.00	H
ATOM	1532	CA	PHE	160	39.005	64.699	4.578	1.00	0.00	C
ATOM	1533	CB	PHE	160	40.451	64.574	5.086	1.00	0.00	C
ATOM	1534	CG	PHE	160	41.375	65.039	4.016	1.00	0.00	C
ATOM	1535	CD1	PHE	160	41.630	64.274	2.904	1.00	0.00	C
ATOM	1536	CD2	PHE	160	42.007	66.255	4.149	1.00	0.00	C
ATOM	1537	CE1	PHE	160	42.492	64.729	1.934	1.00	0.00	C
ATOM	1538	CE2	PHE	160	42.870	66.710	3.181	1.00	0.00	C
ATOM	1539	CZ	PHE	160	43.112	65.947	2.067	1.00	0.00	C
ATOM	1540	C	PHE	160	38.647	63.434	3.877	1.00	0.00	C
ATOM	1541	O	PHE	160	38.441	63.412	2.663	1.00	0.00	O
ATOM	1542	N	PHE	161	38.433	62.376	4.672	1.00	0.00	N
ATOM	1543	HN	PHE	161	38.560	62.470	5.680	1.00	0.00	H
ATOM	1544	CA	PHE	161	38.031	61.122	4.128	1.00	0.00	C
ATOM	1545	CB	PHE	161	37.761	60.119	5.268	1.00	0.00	C
ATOM	1546	CG	PHE	161	36.712	59.133	4.889	1.00	0.00	C
ATOM	1547	CD1	PHE	161	36.851	58.290	3.815	1.00	0.00	C
ATOM	1548	CD2	PHE	161	35.582	59.033	5.671	1.00	0.00	C
ATOM	1549	CE1	PHE	161	35.853	57.393	3.518	1.00	0.00	C
ATOM	1550	CE2	PHE	161	34.585	58.135	5.377	1.00	0.00	C
ATOM	1551	CZ	PHE	161	34.719	57.310	4.290	1.00	0.00	C

ATOM	1552	C	PHE	161	36.803	61.295	3.279	1.00	0.00	C
ATOM	1553	O	PHE	161	36.823	61.001	2.086	1.00	0.00	O
ATOM	1554	N	GLN	162	35.707	61.843	3.819	1.00	0.00	N
ATOM	1555	HN	GLN	162	35.708	62.201	4.774	1.00	0.00	H
ATOM	1556	CA	GLN	162	34.530	61.906	2.999	1.00	0.00	C
ATOM	1557	CB	GLN	162	33.233	62.094	3.786	1.00	0.00	C
ATOM	1558	CG	GLN	162	33.136	63.322	4.671	1.00	0.00	C
ATOM	1559	CD	GLN	162	31.999	62.937	5.591	1.00	0.00	C
ATOM	1560	OE1	GLN	162	31.352	61.913	5.371	1.00	0.00	O
ATOM	1561	NE2	GLN	162	31.766	63.741	6.661	1.00	0.00	N
ATOM	1562	1HE2	GLN	162	32.302	64.589	6.843	1.00	0.00	H
ATOM	1563	2HE2	GLN	162	30.999	63.481	7.281	1.00	0.00	H
ATOM	1564	C	GLN	162	34.671	62.854	1.853	1.00	0.00	C
ATOM	1565	O	GLN	162	34.086	62.622	0.796	1.00	0.00	O
ATOM	1566	N	SER	163	35.458	63.935	2.010	1.00	0.00	N
ATOM	1567	HN	SER	163	35.958	64.082	2.887	1.00	0.00	H
ATOM	1568	CA	SER	163	35.590	64.879	0.939	1.00	0.00	C
ATOM	1569	CB	SER	163	36.585	66.014	1.241	1.00	0.00	C
ATOM	1570	OG	SER	163	37.914	65.514	1.265	1.00	0.00	O
ATOM	1571	HG	SER	163	38.528	66.214	1.451	1.00	0.00	H
ATOM	1572	C	SER	163	36.091	64.133	-0.266	1.00	0.00	C
ATOM	1573	O	SER	163	35.772	64.477	-1.401	1.00	0.00	O
ATOM	1574	N	MET	164	36.946	63.120	-0.043	1.00	0.00	N
ATOM	1575	HN	MET	164	37.226	62.931	0.920	1.00	0.00	H
ATOM	1576	CA	MET	164	37.491	62.284	-1.084	1.00	0.00	C
ATOM	1577	CB	MET	164	38.747	61.551	-0.601	1.00	0.00	C
ATOM	1578	CG	MET	164	39.805	62.540	-0.111	1.00	0.00	C
ATOM	1579	SD	MET	164	40.365	63.745	-1.356	1.00	0.00	S
ATOM	1580	CE	MET	164	41.684	62.695	-2.029	1.00	0.00	C
ATOM	1581	C	MET	164	36.515	61.271	-1.619	1.00	0.00	C
ATOM	1582	O	MET	164	36.547	60.935	-2.802	1.00	0.00	O
ATOM	1583	N	ALA	165	35.650	60.708	-0.754	1.00	0.00	N
ATOM	1584	HN	ALA	165	35.647	60.995	0.225	1.00	0.00	H
ATOM	1585	CA	ALA	165	34.732	59.704	-1.211	1.00	0.00	C
ATOM	1586	CB	ALA	165	33.830	59.181	-0.076	1.00	0.00	C
ATOM	1587	C	ALA	165	33.856	60.361	-2.214	1.00	0.00	C
ATOM	1588	O	ALA	165	33.534	59.779	-3.246	1.00	0.00	O
ATOM	1589	N	THR	166	33.416	61.593	-1.908	1.00	0.00	N
ATOM	1590	HN	THR	166	33.677	62.020	-1.019	1.00	0.00	H
ATOM	1591	CA	THR	166	32.584	62.308	-2.824	1.00	0.00	C
ATOM	1592	CB	THR	166	31.960	63.532	-2.225	1.00	0.00	C
ATOM	1593	OG1	THR	166	31.158	64.181	-3.197	1.00	0.00	O
ATOM	1594	HG1	THR	166	30.762	64.957	-2.817	1.00	0.00	H
ATOM	1595	CG2	THR	166	33.054	64.479	-1.725	1.00	0.00	C
ATOM	1596	C	THR	166	33.348	62.723	-4.040	1.00	0.00	C
ATOM	1597	O	THR	166	32.906	62.498	-5.165	1.00	0.00	O
ATOM	1598	N	PHE	167	34.541	63.313	-3.852	1.00	0.00	N
ATOM	1599	HN	PHE	167	34.946	63.379	-2.918	1.00	0.00	H
ATOM	1600	CA	PHE	167	35.233	63.847	-4.988	1.00	0.00	C
ATOM	1601	CB	PHE	167	36.565	64.511	-4.598	1.00	0.00	C
ATOM	1602	CG	PHE	167	37.046	65.306	-5.762	1.00	0.00	C
ATOM	1603	CD1	PHE	167	37.831	64.741	-6.741	1.00	0.00	C
ATOM	1604	CD2	PHE	167	36.699	66.633	-5.870	1.00	0.00	C
ATOM	1605	CE1	PHE	167	38.265	65.493	-7.808	1.00	0.00	C
ATOM	1606	CE2	PHE	167	37.130	67.388	-6.934	1.00	0.00	C
ATOM	1607	CZ	PHE	167	37.915	66.819	-7.907	1.00	0.00	C
ATOM	1608	C	PHE	167	35.525	62.741	-5.953	1.00	0.00	C
ATOM	1609	O	PHE	167	35.106	62.781	-7.108	1.00	0.00	O
ATOM	1610	N	PHE	168	36.208	61.687	-5.477	1.00	0.00	N
ATOM	1611	HN	PHE	168	36.467	61.674	-4.490	1.00	0.00	H
ATOM	1612	CA	PHE	168	36.586	60.581	-6.305	1.00	0.00	C
ATOM	1613	CB	PHE	168	37.545	59.593	-5.621	1.00	0.00	C
ATOM	1614	CG	PHE	168	38.881	60.248	-5.611	1.00	0.00	C
ATOM	1615	CD1	PHE	168	39.664	60.233	-6.743	1.00	0.00	C
ATOM	1616	CD2	PHE	168	39.353	60.875	-4.482	1.00	0.00	C
ATOM	1617	CE1	PHE	168	40.900	60.834	-6.749	1.00	0.00	C
ATOM	1618	CE2	PHE	168	40.588	61.478	-4.483	1.00	0.00	C
ATOM	1619	CZ	PHE	168	41.364	61.459	-5.616	1.00	0.00	C
ATOM	1620	C	PHE	168	35.389	59.819	-6.755	1.00	0.00	C
ATOM	1621	O	PHE	168	35.398	59.309	-7.866	1.00	0.00	O
ATOM	1622	N	THR	169	34.342	59.650	-5.924	1.00	0.00	N
ATOM	1623	HN	THR	169	34.326	60.053	-4.987	1.00	0.00	H
ATOM	1624	CA	THR	169	33.246	58.867	-6.434	1.00	0.00	C
ATOM	1625	CB	THR	169	32.083	58.645	-5.475	1.00	0.00	C

ATOM	1626	OG1	THR	169	31.098	57.860	-6.126	1.00	0.00	O
ATOM	1627	HG1	THR	169	30.373	57.722	-5.528	1.00	0.00	H
ATOM	1628	CG2	THR	169	31.434	59.950	-4.971	1.00	0.00	C
ATOM	1629	C	THR	169	32.683	59.520	-7.652	1.00	0.00	C
ATOM	1630	O	THR	169	32.759	58.967	-8.749	1.00	0.00	O
ATOM	1631	N	GLY	170	32.240	60.779	-7.510	1.00	0.00	N
ATOM	1632	HN	GLY	170	32.398	61.257	-6.623	1.00	0.00	H
ATOM	1633	CA	GLY	170	31.559	61.472	-8.548	1.00	0.00	C
ATOM	1634	C	GLY	170	32.477	61.514	-9.707	1.00	0.00	C
ATOM	1635	O	GLY	170	32.038	61.650	-10.843	1.00	0.00	O
ATOM	1636	N	PHE	171	33.789	61.563	-9.438	1.00	0.00	N
ATOM	1637	HN	PHE	171	34.124	61.606	-8.475	1.00	0.00	H
ATOM	1638	CA	PHE	171	34.707	61.553	-10.531	1.00	0.00	C
ATOM	1639	CB	PHE	171	36.102	62.031	-10.098	1.00	0.00	C
ATOM	1640	CG	PHE	171	36.996	62.010	-11.286	1.00	0.00	C
ATOM	1641	CD1	PHE	171	36.854	62.950	-12.280	1.00	0.00	C
ATOM	1642	CD2	PHE	171	37.993	61.069	-11.395	1.00	0.00	C
ATOM	1643	CE1	PHE	171	37.681	62.941	-13.379	1.00	0.00	C
ATOM	1644	CE2	PHE	171	38.823	61.055	-12.491	1.00	0.00	C
ATOM	1645	CZ	PHE	171	38.667	61.990	-13.486	1.00	0.00	C
ATOM	1646	C	PHE	171	34.844	60.209	-11.173	1.00	0.00	C
ATOM	1647	O	PHE	171	34.333	59.992	-12.263	1.00	0.00	O
ATOM	1648	N	ILE	172	35.373	59.219	-10.430	1.00	0.00	N
ATOM	1649	HN	ILE	172	35.497	59.378	-9.430	1.00	0.00	H
ATOM	1650	CA	ILE	172	35.771	57.953	-10.971	1.00	0.00	C
ATOM	1651	CB	ILE	172	36.200	57.001	-9.899	1.00	0.00	C
ATOM	1652	CG1	ILE	172	37.432	57.560	-9.169	1.00	0.00	C
ATOM	1653	CG2	ILE	172	36.424	55.627	-10.547	1.00	0.00	C
ATOM	1654	CD1	ILE	172	37.739	56.854	-7.852	1.00	0.00	C
ATOM	1655	C	ILE	172	34.599	57.356	-11.663	1.00	0.00	C
ATOM	1656	O	ILE	172	34.663	57.076	-12.855	1.00	0.00	O
ATOM	1657	N	VAL	173	33.469	57.201	-10.966	1.00	0.00	N
ATOM	1658	HN	VAL	173	33.423	57.455	-9.979	1.00	0.00	H
ATOM	1659	CA	VAL	173	32.324	56.669	-11.642	1.00	0.00	C
ATOM	1660	CB	VAL	173	31.246	56.225	-10.692	1.00	0.00	C
ATOM	1661	CG1	VAL	173	31.816	55.091	-9.824	1.00	0.00	C
ATOM	1662	CG2	VAL	173	30.758	57.434	-9.875	1.00	0.00	C
ATOM	1663	C	VAL	173	31.747	57.704	-12.552	1.00	0.00	C
ATOM	1664	O	VAL	173	31.417	57.435	-13.705	1.00	0.00	O
ATOM	1665	N	GLY	174	31.693	58.952	-12.064	1.00	0.00	N
ATOM	1666	HN	GLY	174	32.165	59.154	-11.182	1.00	0.00	H
ATOM	1667	CA	GLY	174	31.001	60.010	-12.730	1.00	0.00	C
ATOM	1668	C	GLY	174	31.523	60.220	-14.107	1.00	0.00	C
ATOM	1669	O	GLY	174	30.817	60.797	-14.921	1.00	0.00	O
ATOM	1670	N	PHE	175	32.821	60.040	-14.368	1.00	0.00	N
ATOM	1671	HN	PHE	175	33.484	59.903	-13.605	1.00	0.00	H
ATOM	1672	CA	PHE	175	33.275	60.041	-15.726	1.00	0.00	C
ATOM	1673	CB	PHE	175	34.607	60.786	-15.889	1.00	0.00	C
ATOM	1674	CG	PHE	175	34.935	60.762	-17.339	1.00	0.00	C
ATOM	1675	CD1	PHE	175	34.311	61.634	-18.200	1.00	0.00	C
ATOM	1676	CD2	PHE	175	35.862	59.877	-17.838	1.00	0.00	C
ATOM	1677	CE1	PHE	175	34.604	61.621	-19.543	1.00	0.00	C
ATOM	1678	CE2	PHE	175	36.159	59.860	-19.180	1.00	0.00	C
ATOM	1679	CZ	PHE	175	35.528	60.732	-20.034	1.00	0.00	C
ATOM	1680	C	PHE	175	33.461	58.669	-16.331	1.00	0.00	C
ATOM	1681	O	PHE	175	32.923	58.344	-17.388	1.00	0.00	O
ATOM	1682	N	THR	176	34.183	57.782	-15.608	1.00	0.00	N
ATOM	1683	HN	THR	176	34.361	57.952	-14.618	1.00	0.00	H
ATOM	1684	CA	THR	176	34.699	56.597	-16.243	1.00	0.00	C
ATOM	1685	CB	THR	176	35.520	55.689	-15.371	1.00	0.00	C
ATOM	1686	OG1	THR	176	34.706	55.036	-14.409	1.00	0.00	O
ATOM	1687	HG1	THR	176	35.225	54.462	-13.858	1.00	0.00	H
ATOM	1688	CG2	THR	176	36.619	56.518	-14.690	1.00	0.00	C
ATOM	1689	C	THR	176	33.605	55.754	-16.780	1.00	0.00	C
ATOM	1690	O	THR	176	33.703	55.258	-17.901	1.00	0.00	O
ATOM	1691	N	ARG	177	32.523	55.553	-16.015	1.00	0.00	N
ATOM	1692	HN	ARG	177	32.400	56.003	-15.108	1.00	0.00	H
ATOM	1693	CA	ARG	177	31.557	54.660	-16.568	1.00	0.00	C
ATOM	1694	CB	ARG	177	30.935	53.695	-15.544	1.00	0.00	C
ATOM	1695	CG	ARG	177	31.759	52.417	-15.395	1.00	0.00	C
ATOM	1696	CD	ARG	177	33.213	52.668	-15.003	1.00	0.00	C
ATOM	1697	NE	ARG	177	33.970	51.439	-15.362	1.00	0.00	N
ATOM	1698	HE	ARG	177	34.172	50.732	-14.655	1.00	0.00	H
ATOM	1699	CZ	ARG	177	34.391	51.268	-16.650	1.00	0.00	C

ATOM	1700	NH1	ARG	177	34.099	52.209	-17.594	1.00	0.00	N
ATOM	1701	1HH1	ARG	177	33.568	53.040	-17.334	1.00	0.00	H
ATOM	1702	2HH1	ARG	177	34.413	52.081	-18.556	1.00	0.00	H
ATOM	1703	NH2	ARG	177	35.101	50.157	-16.998	1.00	0.00	N
ATOM	1704	1HH2	ARG	177	35.319	49.454	-16.292	1.00	0.00	H
ATOM	1705	2HH2	ARG	177	35.415	50.029	-17.960	1.00	0.00	H
ATOM	1706	C	ARG	177	30.464	55.398	-17.238	1.00	0.00	C
ATOM	1707	O	ARG	177	29.641	56.027	-16.583	1.00	0.00	O
ATOM	1708	N	GLY	178	30.377	55.241	-18.573	1.00	0.00	N
ATOM	1709	HN	GLY	178	31.036	54.628	-19.053	1.00	0.00	H
ATOM	1710	CA	GLY	178	29.369	55.926	-19.324	1.00	0.00	C
ATOM	1711	C	GLY	178	29.967	56.585	-20.520	1.00	0.00	C
ATOM	1712	O	GLY	178	29.381	56.472	-21.596	1.00	0.00	O
ATOM	1713	N	TRP	179	31.158	57.212	-20.386	1.00	0.00	N
ATOM	1714	HN	TRP	179	31.635	57.196	-19.484	1.00	0.00	H
ATOM	1715	CA	TRP	179	31.764	57.902	-21.495	1.00	0.00	C
ATOM	1716	CB	TRP	179	32.355	56.936	-22.533	1.00	0.00	C
ATOM	1717	CG	TRP	179	33.477	56.093	-21.971	1.00	0.00	C
ATOM	1718	CD2	TRP	179	34.198	55.104	-22.721	1.00	0.00	C
ATOM	1719	CD1	TRP	179	34.005	56.083	-20.712	1.00	0.00	C
ATOM	1720	NE1	TRP	179	35.013	55.153	-20.632	1.00	0.00	N
ATOM	1721	HE1	TRP	179	35.571	54.949	-19.803	1.00	0.00	H
ATOM	1722	CE2	TRP	179	35.142	54.543	-21.861	1.00	0.00	C
ATOM	1723	CE3	TRP	179	34.083	54.699	-24.020	1.00	0.00	C
ATOM	1724	CZ2	TRP	179	35.991	53.564	-22.290	1.00	0.00	C
ATOM	1725	CZ3	TRP	179	34.941	53.709	-24.447	1.00	0.00	C
ATOM	1726	CH2	TRP	179	35.877	53.153	-23.599	1.00	0.00	C
ATOM	1727	C	TRP	179	30.704	58.748	-22.140	1.00	0.00	C
ATOM	1728	O	TRP	179	30.235	58.458	-23.238	1.00	0.00	O
ATOM	1729	N	LYS	180	30.289	59.815	-21.439	1.00	0.00	N
ATOM	1730	HN	LYS	180	30.762	59.998	-20.554	1.00	0.00	H
ATOM	1731	CA	LYS	180	29.243	60.723	-21.817	1.00	0.00	C
ATOM	1732	CB	LYS	180	29.193	61.017	-23.329	1.00	0.00	C
ATOM	1733	CG	LYS	180	30.429	61.763	-23.840	1.00	0.00	C
ATOM	1734	CD	LYS	180	31.663	60.865	-23.925	1.00	0.00	C
ATOM	1735	CE	LYS	180	33.000	61.595	-23.940	1.00	0.00	C
ATOM	1736	NZ	LYS	180	34.083	60.628	-23.656	1.00	0.00	N
ATOM	1737	HZ1	LYS	180	34.978	61.117	-23.666	1.00	0.00	H
ATOM	1738	HZ2	LYS	180	34.069	59.832	-24.293	1.00	0.00	H
ATOM	1739	HZ3	LYS	180	33.929	60.118	-22.786	1.00	0.00	H
ATOM	1740	C	LYS	180	27.905	60.171	-21.403	1.00	0.00	C
ATOM	1741	O	LYS	180	26.919	60.906	-21.397	1.00	0.00	O
ATOM	1742	N	LEU	181	27.805	58.864	-21.083	1.00	0.00	N
ATOM	1743	HN	LEU	181	28.585	58.237	-21.278	1.00	0.00	H
ATOM	1744	CA	LEU	181	26.610	58.344	-20.470	1.00	0.00	C
ATOM	1745	CB	LEU	181	26.470	56.819	-20.618	1.00	0.00	C
ATOM	1746	CG	LEU	181	25.200	56.212	-19.977	1.00	0.00	C
ATOM	1747	CD1	LEU	181	25.263	56.203	-18.440	1.00	0.00	C
ATOM	1748	CD2	LEU	181	23.931	56.893	-20.513	1.00	0.00	C
ATOM	1749	C	LEU	181	26.736	58.680	-19.028	1.00	0.00	C
ATOM	1750	O	LEU	181	25.786	59.029	-18.332	1.00	0.00	O
ATOM	1751	N	THR	182	27.985	58.562	-18.556	1.00	0.00	N
ATOM	1752	HN	THR	182	28.706	58.224	-19.194	1.00	0.00	H
ATOM	1753	CA	THR	182	28.371	58.878	-17.221	1.00	0.00	C
ATOM	1754	CB	THR	182	29.832	58.674	-17.000	1.00	0.00	C
ATOM	1755	OG1	THR	182	30.038	58.448	-15.621	1.00	0.00	O
ATOM	1756	HG1	THR	182	30.968	58.318	-15.480	1.00	0.00	H
ATOM	1757	CG2	THR	182	30.663	59.870	-17.494	1.00	0.00	C
ATOM	1758	C	THR	182	28.132	60.336	-17.149	1.00	0.00	C
ATOM	1759	O	THR	182	27.991	60.910	-16.072	1.00	0.00	O
ATOM	1760	N	LEU	183	28.235	60.963	-18.337	1.00	0.00	N
ATOM	1761	HN	LEU	183	28.533	60.398	-19.132	1.00	0.00	H
ATOM	1762	CA	LEU	183	27.968	62.338	-18.589	1.00	0.00	C
ATOM	1763	CB	LEU	183	28.486	62.861	-19.936	1.00	0.00	C
ATOM	1764	CG	LEU	183	29.994	63.155	-19.953	1.00	0.00	C
ATOM	1765	CD1	LEU	183	30.326	64.347	-19.043	1.00	0.00	C
ATOM	1766	CD2	LEU	183	30.824	61.908	-19.618	1.00	0.00	C
ATOM	1767	C	LEU	183	26.509	62.557	-18.572	1.00	0.00	C
ATOM	1768	O	LEU	183	26.076	63.658	-18.269	1.00	0.00	O
ATOM	1769	N	VAL	184	25.712	61.551	-18.974	1.00	0.00	N
ATOM	1770	HN	VAL	184	26.106	60.687	-19.347	1.00	0.00	H
ATOM	1771	CA	VAL	184	24.299	61.725	-18.865	1.00	0.00	C
ATOM	1772	CB	VAL	184	23.516	60.489	-19.193	1.00	0.00	C
ATOM	1773	CG1	VAL	184	22.032	60.757	-18.888	1.00	0.00	C

ATOM	1774	CG2	VAL	184	23.789	60.103	-20.656	1.00	0.00	C
ATOM	1775	C	VAL	184	24.121	61.980	-17.416	1.00	0.00	C
ATOM	1776	O	VAL	184	23.407	62.896	-17.021	1.00	0.00	O
ATOM	1777	N	ILE	185	24.867	61.215	-16.599	1.00	0.00	N
ATOM	1778	HN	ILE	185	25.492	60.517	-17.002	1.00	0.00	H
ATOM	1779	CA	ILE	185	24.802	61.360	-15.176	1.00	0.00	C
ATOM	1780	CB	ILE	185	25.814	60.520	-14.467	1.00	0.00	C
ATOM	1781	CG1	ILE	185	25.684	59.043	-14.837	1.00	0.00	C
ATOM	1782	CG2	ILE	185	25.704	60.813	-12.962	1.00	0.00	C
ATOM	1783	CD1	ILE	185	26.953	58.274	-14.494	1.00	0.00	C
ATOM	1784	C	ILE	185	25.219	62.742	-14.833	1.00	0.00	C
ATOM	1785	O	ILE	185	24.419	63.512	-14.313	1.00	0.00	O
ATOM	1786	N	LEU	186	26.439	63.129	-15.255	1.00	0.00	N
ATOM	1787	HN	LEU	186	26.967	62.518	-15.878	1.00	0.00	H
ATOM	1788	CA	LEU	186	27.013	64.380	-14.849	1.00	0.00	C
ATOM	1789	CB	LEU	186	28.353	64.669	-15.542	1.00	0.00	C
ATOM	1790	CG	LEU	186	29.459	63.667	-15.167	1.00	0.00	C
ATOM	1791	CD1	LEU	186	30.778	63.999	-15.884	1.00	0.00	C
ATOM	1792	CD2	LEU	186	29.619	63.559	-13.642	1.00	0.00	C
ATOM	1793	C	LEU	186	26.064	65.463	-15.237	1.00	0.00	C
ATOM	1794	O	LEU	186	25.868	66.424	-14.499	1.00	0.00	O
ATOM	1795	N	ALA	187	25.463	65.349	-16.429	1.00	0.00	N
ATOM	1796	HN	ALA	187	25.653	64.545	-17.027	1.00	0.00	H
ATOM	1797	CA	ALA	187	24.557	66.361	-16.852	1.00	0.00	C
ATOM	1798	CB	ALA	187	24.156	66.199	-18.327	1.00	0.00	C
ATOM	1799	C	ALA	187	23.285	66.405	-16.054	1.00	0.00	C
ATOM	1800	O	ALA	187	23.118	67.318	-15.255	1.00	0.00	O
ATOM	1801	N	ILE	188	22.402	65.381	-16.126	1.00	0.00	N
ATOM	1802	HN	ILE	188	22.613	64.503	-16.600	1.00	0.00	H
ATOM	1803	CA	ILE	188	21.141	65.634	-15.478	1.00	0.00	C
ATOM	1804	CB	ILE	188	20.006	64.671	-15.762	1.00	0.00	C
ATOM	1805	CG1	ILE	188	20.107	63.318	-15.030	1.00	0.00	C
ATOM	1806	CG2	ILE	188	19.915	64.536	-17.291	1.00	0.00	C
ATOM	1807	CD1	ILE	188	21.363	62.502	-15.272	1.00	0.00	C
ATOM	1808	C	ILE	188	21.371	65.629	-14.009	1.00	0.00	C
ATOM	1809	O	ILE	188	20.955	66.543	-13.300	1.00	0.00	O
ATOM	1810	N	SER	189	22.106	64.611	-13.527	1.00	0.00	N
ATOM	1811	HN	SER	189	22.536	63.941	-14.164	1.00	0.00	H
ATOM	1812	CA	SER	189	22.279	64.476	-12.117	1.00	0.00	C
ATOM	1813	CB	SER	189	22.980	63.167	-11.699	1.00	0.00	C
ATOM	1814	OG	SER	189	22.174	62.049	-12.041	1.00	0.00	O
ATOM	1815	HG	SER	189	22.606	61.243	-11.784	1.00	0.00	H
ATOM	1816	C	SER	189	22.958	65.692	-11.550	1.00	0.00	C
ATOM	1817	O	SER	189	22.285	66.411	-10.818	1.00	0.00	O
ATOM	1818	N	PRO	190	24.185	66.056	-11.858	1.00	0.00	N
ATOM	1819	CA	PRO	190	24.719	67.221	-11.204	1.00	0.00	C
ATOM	1820	CD	PRO	190	25.245	65.087	-12.111	1.00	0.00	C
ATOM	1821	CB	PRO	190	26.196	67.263	-11.574	1.00	0.00	C
ATOM	1822	CG	PRO	190	26.558	65.773	-11.696	1.00	0.00	C
ATOM	1823	C	PRO	190	23.948	68.479	-11.458	1.00	0.00	C
ATOM	1824	O	PRO	190	24.055	69.390	-10.640	1.00	0.00	O
ATOM	1825	N	VAL	191	23.206	68.582	-12.579	1.00	0.00	N
ATOM	1826	HN	VAL	191	23.203	67.828	-13.265	1.00	0.00	H
ATOM	1827	CA	VAL	191	22.419	69.765	-12.798	1.00	0.00	C
ATOM	1828	CB	VAL	191	21.868	69.882	-14.187	1.00	0.00	C
ATOM	1829	CG1	VAL	191	20.894	71.073	-14.226	1.00	0.00	C
ATOM	1830	CG2	VAL	191	23.050	70.053	-15.155	1.00	0.00	C
ATOM	1831	C	VAL	191	21.270	69.804	-11.839	1.00	0.00	C
ATOM	1832	O	VAL	191	20.982	70.840	-11.243	1.00	0.00	O
ATOM	1833	N	LEU	192	20.583	68.661	-11.661	1.00	0.00	N
ATOM	1834	HN	LEU	192	20.874	67.818	-12.155	1.00	0.00	H
ATOM	1835	CA	LEU	192	19.451	68.611	-10.789	1.00	0.00	C
ATOM	1836	CB	LEU	192	18.817	67.207	-10.836	1.00	0.00	C
ATOM	1837	CG	LEU	192	17.467	67.076	-10.122	1.00	0.00	C
ATOM	1838	CD1	LEU	192	17.624	67.151	-8.599	1.00	0.00	C
ATOM	1839	CD2	LEU	192	16.461	68.097	-10.677	1.00	0.00	C
ATOM	1840	C	LEU	192	19.986	68.918	-9.427	1.00	0.00	C
ATOM	1841	O	LEU	192	19.451	69.755	-8.702	1.00	0.00	O
ATOM	1842	N	GLY	193	21.143	68.315	-9.102	1.00	0.00	N
ATOM	1843	HN	GLY	193	21.592	67.718	-9.796	1.00	0.00	H
ATOM	1844	CA	GLY	193	21.774	68.473	-7.826	1.00	0.00	C
ATOM	1845	C	GLY	193	22.042	69.927	-7.637	1.00	0.00	C
ATOM	1846	O	GLY	193	22.080	70.412	-6.509	1.00	0.00	O
ATOM	1847	N	LEU	194	22.302	70.643	-8.743	1.00	0.00	N

ATOM	1848	HN	LEU	194	22.307	70.174	-9.649	1.00	0.00	H
ATOM	1849	CA	LEU	194	22.572	72.048	-8.683	1.00	0.00	C
ATOM	1850	CB	LEU	194	22.955	72.596	-10.073	1.00	0.00	C
ATOM	1851	CG	LEU	194	23.278	74.099	-10.125	1.00	0.00	C
ATOM	1852	CD1	LEU	194	22.016	74.973	-10.017	1.00	0.00	C
ATOM	1853	CD2	LEU	194	24.350	74.461	-9.087	1.00	0.00	C
ATOM	1854	C	LEU	194	21.350	72.761	-8.188	1.00	0.00	C
ATOM	1855	O	LEU	194	21.436	73.590	-7.285	1.00	0.00	O
ATOM	1856	N	SER	195	20.161	72.439	-8.738	1.00	0.00	N
ATOM	1857	HN	SER	195	20.103	71.705	-9.444	1.00	0.00	H
ATOM	1858	CA	SER	195	18.978	73.139	-8.321	1.00	0.00	C
ATOM	1859	CB	SER	195	17.722	72.704	-9.094	1.00	0.00	C
ATOM	1860	OG	SER	195	17.416	71.347	-8.815	1.00	0.00	O
ATOM	1861	HG	SER	195	16.640	71.078	-9.293	1.00	0.00	H
ATOM	1862	C	SER	195	18.753	72.844	-6.875	1.00	0.00	C
ATOM	1863	O	SER	195	18.338	73.712	-6.110	1.00	0.00	O
ATOM	1864	N	ALA	196	19.011	71.591	-6.466	1.00	0.00	N
ATOM	1865	HN	ALA	196	19.352	70.899	-7.134	1.00	0.00	H
ATOM	1866	CA	ALA	196	18.810	71.222	-5.099	1.00	0.00	C
ATOM	1867	CB	ALA	196	19.053	69.725	-4.854	1.00	0.00	C
ATOM	1868	C	ALA	196	19.759	71.980	-4.220	1.00	0.00	C
ATOM	1869	O	ALA	196	19.360	72.556	-3.212	1.00	0.00	O
ATOM	1870	N	ALA	197	21.047	72.044	-4.594	1.00	0.00	N
ATOM	1871	HN	ALA	197	21.349	71.654	-5.487	1.00	0.00	H
ATOM	1872	CA	ALA	197	21.990	72.672	-3.714	1.00	0.00	C
ATOM	1873	CB	ALA	197	23.429	72.635	-4.258	1.00	0.00	C
ATOM	1874	C	ALA	197	21.615	74.107	-3.534	1.00	0.00	C
ATOM	1875	O	ALA	197	21.600	74.606	-2.411	1.00	0.00	O
ATOM	1876	N	VAL	198	21.307	74.809	-4.642	1.00	0.00	N
ATOM	1877	HN	VAL	198	21.282	74.338	-5.546	1.00	0.00	H
ATOM	1878	CA	VAL	198	21.014	76.208	-4.565	1.00	0.00	C
ATOM	1879	CB	VAL	198	20.957	76.861	-5.919	1.00	0.00	C
ATOM	1880	CG1	VAL	198	19.904	76.152	-6.786	1.00	0.00	C
ATOM	1881	CG2	VAL	198	20.687	78.362	-5.717	1.00	0.00	C
ATOM	1882	C	VAL	198	19.733	76.489	-3.843	1.00	0.00	C
ATOM	1883	O	VAL	198	19.742	77.168	-2.822	1.00	0.00	O
ATOM	1884	N	TRP	199	18.598	75.927	-4.296	1.00	0.00	N
ATOM	1885	HN	TRP	199	18.622	75.229	-5.040	1.00	0.00	H
ATOM	1886	CA	TRP	199	17.352	76.331	-3.709	1.00	0.00	C
ATOM	1887	CB	TRP	199	16.118	75.688	-4.376	1.00	0.00	C
ATOM	1888	CG	TRP	199	14.789	76.298	-3.972	1.00	0.00	C
ATOM	1889	CD2	TRP	199	14.003	75.910	-2.831	1.00	0.00	C
ATOM	1890	CD1	TRP	199	14.098	77.302	-4.587	1.00	0.00	C
ATOM	1891	NE1	TRP	199	12.933	77.561	-3.906	1.00	0.00	N
ATOM	1892	HE1	TRP	199	12.238	78.263	-4.160	1.00	0.00	H
ATOM	1893	CE2	TRP	199	12.861	76.713	-2.823	1.00	0.00	C
ATOM	1894	CE3	TRP	199	14.210	74.965	-1.869	1.00	0.00	C
ATOM	1895	CZ2	TRP	199	11.910	76.582	-1.851	1.00	0.00	C
ATOM	1896	CZ3	TRP	199	13.249	74.840	-0.890	1.00	0.00	C
ATOM	1897	CH2	TRP	199	12.120	75.630	-0.880	1.00	0.00	C
ATOM	1898	C	TRP	199	17.343	75.942	-2.269	1.00	0.00	C
ATOM	1899	O	TRP	199	17.035	76.754	-1.401	1.00	0.00	O
ATOM	1900	N	ALA	200	17.710	74.687	-1.964	1.00	0.00	N
ATOM	1901	HN	ALA	200	18.037	74.050	-2.690	1.00	0.00	H
ATOM	1902	CA	ALA	200	17.633	74.261	-0.603	1.00	0.00	C
ATOM	1903	CB	ALA	200	18.030	72.791	-0.428	1.00	0.00	C
ATOM	1904	C	ALA	200	18.552	75.084	0.248	1.00	0.00	C
ATOM	1905	O	ALA	200	18.160	75.596	1.294	1.00	0.00	O
ATOM	1906	N	LYS	201	19.801	75.274	-0.195	1.00	0.00	N
ATOM	1907	HN	LYS	201	20.074	74.905	-1.106	1.00	0.00	H
ATOM	1908	CA	LYS	201	20.758	75.989	0.595	1.00	0.00	C
ATOM	1909	CB	LYS	201	22.175	75.843	0.035	1.00	0.00	C
ATOM	1910	CG	LYS	201	22.593	74.380	0.162	1.00	0.00	C
ATOM	1911	CD	LYS	201	23.817	73.970	-0.641	1.00	0.00	C
ATOM	1912	CE	LYS	201	24.015	72.453	-0.642	1.00	0.00	C
ATOM	1913	NZ	LYS	201	24.024	71.948	0.749	1.00	0.00	N
ATOM	1914	HZ1	LYS	201	24.156	70.937	0.748	1.00	0.00	H
ATOM	1915	HZ2	LYS	201	23.188	72.225	1.263	1.00	0.00	H
ATOM	1916	HZ3	LYS	201	24.717	72.425	1.326	1.00	0.00	H
ATOM	1917	C	LYS	201	20.351	77.417	0.707	1.00	0.00	C
ATOM	1918	O	LYS	201	20.619	78.063	1.718	1.00	0.00	O
ATOM	1919	N	ILE	202	19.691	77.953	-0.335	1.00	0.00	N
ATOM	1920	HN	ILE	202	19.485	77.393	-1.163	1.00	0.00	H
ATOM	1921	CA	ILE	202	19.283	79.320	-0.262	1.00	0.00	C

ATOM	1922	CB	ILE	202	18.512	79.793	-1.465	1.00	0.00	C
ATOM	1923	CG1	ILE	202	19.415	79.881	-2.706	1.00	0.00	C
ATOM	1924	CG2	ILE	202	17.845	81.129	-1.101	1.00	0.00	C
ATOM	1925	CD1	ILE	202	18.635	80.033	-4.012	1.00	0.00	C
ATOM	1926	C	ILE	202	18.363	79.423	0.901	1.00	0.00	C
ATOM	1927	O	ILE	202	18.522	80.296	1.751	1.00	0.00	O
ATOM	1928	N	LEU	203	17.395	78.495	0.988	1.00	0.00	N
ATOM	1929	HN	LEU	203	17.329	77.766	0.278	1.00	0.00	H
ATOM	1930	CA	LEU	203	16.459	78.519	2.063	1.00	0.00	C
ATOM	1931	CB	LEU	203	15.341	77.469	1.938	1.00	0.00	C
ATOM	1932	CG	LEU	203	14.257	77.846	0.911	1.00	0.00	C
ATOM	1933	CD1	LEU	203	13.399	79.017	1.414	1.00	0.00	C
ATOM	1934	CD2	LEU	203	14.860	78.133	-0.471	1.00	0.00	C
ATOM	1935	C	LEU	203	17.174	78.290	3.349	1.00	0.00	C
ATOM	1936	O	LEU	203	16.834	78.911	4.346	1.00	0.00	O
ATOM	1937	N	SER	204	18.195	77.417	3.376	1.00	0.00	N
ATOM	1938	HN	SER	204	18.493	76.961	2.514	1.00	0.00	H
ATOM	1939	CA	SER	204	18.873	77.119	4.611	1.00	0.00	C
ATOM	1940	CB	SER	204	20.102	76.215	4.391	1.00	0.00	C
ATOM	1941	OG	SER	204	19.715	74.976	3.813	1.00	0.00	O
ATOM	1942	HG	SER	204	20.472	74.419	3.677	1.00	0.00	H
ATOM	1943	C	SER	204	19.374	78.395	5.222	1.00	0.00	C
ATOM	1944	O	SER	204	19.177	78.644	6.412	1.00	0.00	O
ATOM	1945	N	SER	205	20.026	79.253	4.418	1.00	0.00	N
ATOM	1946	HN	SER	205	20.161	79.021	3.434	1.00	0.00	H
ATOM	1947	CA	SER	205	20.533	80.492	4.934	1.00	0.00	C
ATOM	1948	CB	SER	205	21.248	81.313	3.856	1.00	0.00	C
ATOM	1949	OG	SER	205	22.284	80.537	3.279	1.00	0.00	O
ATOM	1950	HG	SER	205	22.727	81.046	2.611	1.00	0.00	H
ATOM	1951	C	SER	205	19.349	81.292	5.355	1.00	0.00	C
ATOM	1952	O	SER	205	19.357	81.981	6.374	1.00	0.00	O
ATOM	1953	N	PHE	206	18.271	81.159	4.571	1.00	0.00	N
ATOM	1954	HN	PHE	206	18.330	80.510	3.787	1.00	0.00	H
ATOM	1955	CA	PHE	206	17.043	81.866	4.760	1.00	0.00	C
ATOM	1956	CB	PHE	206	16.002	81.443	3.699	1.00	0.00	C
ATOM	1957	CG	PHE	206	14.655	82.023	3.972	1.00	0.00	C
ATOM	1958	CD1	PHE	206	14.390	83.353	3.742	1.00	0.00	C
ATOM	1959	CD2	PHE	206	13.636	81.214	4.426	1.00	0.00	C
ATOM	1960	CE1	PHE	206	13.138	83.869	3.988	1.00	0.00	C
ATOM	1961	CE2	PHE	206	12.383	81.723	4.672	1.00	0.00	C
ATOM	1962	CZ	PHE	206	12.133	83.056	4.455	1.00	0.00	C
ATOM	1963	C	PHE	206	16.527	81.536	6.127	1.00	0.00	C
ATOM	1964	O	PHE	206	16.014	82.409	6.824	1.00	0.00	O
ATOM	1965	N	THR	207	16.650	80.263	6.550	1.00	0.00	N
ATOM	1966	HN	THR	207	17.110	79.582	5.946	1.00	0.00	H
ATOM	1967	CA	THR	207	16.153	79.838	7.824	1.00	0.00	C
ATOM	1968	CB	THR	207	16.371	78.379	8.102	1.00	0.00	C
ATOM	1969	OG1	THR	207	15.704	77.578	7.136	1.00	0.00	O
ATOM	1970	HG1	THR	207	15.842	76.655	7.312	1.00	0.00	H
ATOM	1971	CG2	THR	207	15.849	78.076	9.520	1.00	0.00	C
ATOM	1972	C	THR	207	16.873	80.578	8.900	1.00	0.00	C
ATOM	1973	O	THR	207	16.250	81.101	9.824	1.00	0.00	O
ATOM	1974	N	ASP	208	18.210	80.668	8.789	1.00	0.00	N
ATOM	1975	HN	ASP	208	18.679	80.300	7.961	1.00	0.00	H
ATOM	1976	CA	ASP	208	18.975	81.281	9.835	1.00	0.00	C
ATOM	1977	CB	ASP	208	20.487	81.272	9.549	1.00	0.00	C
ATOM	1978	CG	ASP	208	21.216	81.630	10.837	1.00	0.00	C
ATOM	1979	OD1	ASP	208	20.527	81.859	11.867	1.00	0.00	O
ATOM	1980	OD2	ASP	208	22.476	81.669	10.808	1.00	0.00	O
ATOM	1981	C	ASP	208	18.539	82.704	9.982	1.00	0.00	C
ATOM	1982	O	ASP	208	18.308	83.175	11.095	1.00	0.00	O
ATOM	1983	N	LYS	209	18.363	83.413	8.851	1.00	0.00	N
ATOM	1984	HN	LYS	209	18.513	82.967	7.946	1.00	0.00	H
ATOM	1985	CA	LYS	209	17.966	84.790	8.909	1.00	0.00	C
ATOM	1986	CB	LYS	209	17.735	85.402	7.507	1.00	0.00	C
ATOM	1987	CG	LYS	209	17.190	86.840	7.487	1.00	0.00	C
ATOM	1988	CD	LYS	209	15.713	86.969	7.885	1.00	0.00	C
ATOM	1989	CE	LYS	209	15.221	88.404	8.081	1.00	0.00	C
ATOM	1990	NZ	LYS	209	13.781	88.396	8.429	1.00	0.00	N
ATOM	1991	HZ1	LYS	209	13.453	89.353	8.560	1.00	0.00	H
ATOM	1992	HZ2	LYS	209	13.585	87.809	9.240	1.00	0.00	H
ATOM	1993	HZ3	LYS	209	13.223	87.889	7.742	1.00	0.00	H
ATOM	1994	C	LYS	209	16.676	84.840	9.653	1.00	0.00	C
ATOM	1995	O	LYS	209	16.451	85.733	10.469	1.00	0.00	O

ATOM	1996	N	GLU	210	15.793	83.863	9.402	1.00	0.00	N
ATOM	1997	HN	GLU	210	16.028	83.108	8.758	1.00	0.00	H
ATOM	1998	CA	GLU	210	14.518	83.892	10.047	1.00	0.00	C
ATOM	1999	CB	GLU	210	13.592	82.732	9.640	1.00	0.00	C
ATOM	2000	CG	GLU	210	13.074	82.855	8.208	1.00	0.00	C
ATOM	2001	CD	GLU	210	12.194	84.097	8.142	1.00	0.00	C
ATOM	2002	OE1	GLU	210	12.100	84.821	9.170	1.00	0.00	O
ATOM	2003	OE2	GLU	210	11.602	84.343	7.059	1.00	0.00	O
ATOM	2004	C	GLU	210	14.722	83.816	11.521	1.00	0.00	C
ATOM	2005	O	GLU	210	14.049	84.505	12.284	1.00	0.00	O
ATOM	2006	N	LEU	211	15.673	82.980	11.959	1.00	0.00	N
ATOM	2007	HN	LEU	211	16.247	82.476	11.283	1.00	0.00	H
ATOM	2008	CA	LEU	211	15.897	82.782	13.360	1.00	0.00	C
ATOM	2009	CB	LEU	211	16.910	81.651	13.606	1.00	0.00	C
ATOM	2010	CG	LEU	211	17.011	81.200	15.072	1.00	0.00	C
ATOM	2011	CD1	LEU	211	17.679	82.264	15.953	1.00	0.00	C
ATOM	2012	CD2	LEU	211	15.636	80.753	15.598	1.00	0.00	C
ATOM	2013	C	LEU	211	16.387	84.055	14.004	1.00	0.00	C
ATOM	2014	O	LEU	211	15.960	84.395	15.107	1.00	0.00	O
ATOM	2015	N	LEU	212	17.290	84.799	13.331	1.00	0.00	N
ATOM	2016	HN	LEU	212	17.567	84.512	12.392	1.00	0.00	H
ATOM	2017	CA	LEU	212	17.873	85.986	13.901	1.00	0.00	C
ATOM	2018	CB	LEU	212	18.903	86.637	12.960	1.00	0.00	C
ATOM	2019	CG	LEU	212	20.122	85.743	12.655	1.00	0.00	C
ATOM	2020	CD1	LEU	212	21.110	86.449	11.713	1.00	0.00	C
ATOM	2021	CD2	LEU	212	20.787	85.242	13.947	1.00	0.00	C
ATOM	2022	C	LEU	212	16.805	87.001	14.152	1.00	0.00	C
ATOM	2023	O	LEU	212	16.724	87.577	15.237	1.00	0.00	O
ATOM	2024	N	ALA	213	15.924	87.218	13.163	1.00	0.00	N
ATOM	2025	HN	ALA	213	15.996	86.682	12.298	1.00	0.00	H
ATOM	2026	CA	ALA	213	14.884	88.193	13.306	1.00	0.00	C
ATOM	2027	CB	ALA	213	13.937	88.245	12.094	1.00	0.00	C
ATOM	2028	C	ALA	213	14.087	87.761	14.488	1.00	0.00	C
ATOM	2029	O	ALA	213	13.586	88.582	15.256	1.00	0.00	O
ATOM	2030	N	TYR	214	13.957	86.436	14.664	1.00	0.00	N
ATOM	2031	HN	TYR	214	14.380	85.787	14.000	1.00	0.00	H
ATOM	2032	CA	TYR	214	13.225	85.940	15.783	1.00	0.00	C
ATOM	2033	CB	TYR	214	13.144	84.403	15.838	1.00	0.00	C
ATOM	2034	CG	TYR	214	12.858	84.045	17.256	1.00	0.00	C
ATOM	2035	CD1	TYR	214	11.722	84.492	17.887	1.00	0.00	C
ATOM	2036	CD2	TYR	214	13.768	83.310	17.982	1.00	0.00	C
ATOM	2037	CE1	TYR	214	11.487	84.170	19.203	1.00	0.00	C
ATOM	2038	CE2	TYR	214	13.533	82.984	19.298	1.00	0.00	C
ATOM	2039	CZ	TYR	214	12.382	83.410	19.913	1.00	0.00	C
ATOM	2040	OH	TYR	214	12.127	83.085	21.263	1.00	0.00	O
ATOM	2041	HH	TYR	214	11.330	83.380	21.689	1.00	0.00	H
ATOM	2042	C	TYR	214	13.842	86.439	17.055	1.00	0.00	C
ATOM	2043	O	TYR	214	13.131	86.879	17.955	1.00	0.00	O
ATOM	2044	N	ALA	215	15.181	86.434	17.162	1.00	0.00	N
ATOM	2045	HN	ALA	215	15.752	86.153	16.365	1.00	0.00	H
ATOM	2046	CA	ALA	215	15.817	86.823	18.395	1.00	0.00	C
ATOM	2047	CB	ALA	215	17.352	86.747	18.320	1.00	0.00	C
ATOM	2048	C	ALA	215	15.462	88.236	18.750	1.00	0.00	C
ATOM	2049	O	ALA	215	15.220	88.540	19.918	1.00	0.00	O
ATOM	2050	N	LYS	216	15.421	89.147	17.761	1.00	0.00	N
ATOM	2051	HN	LYS	216	15.601	88.864	16.798	1.00	0.00	H
ATOM	2052	CA	LYS	216	15.123	90.520	18.064	1.00	0.00	C
ATOM	2053	CB	LYS	216	15.148	91.432	16.827	1.00	0.00	C
ATOM	2054	CG	LYS	216	16.566	91.784	16.376	1.00	0.00	C
ATOM	2055	CD	LYS	216	16.636	92.324	14.950	1.00	0.00	C
ATOM	2056	CE	LYS	216	16.305	91.250	13.916	1.00	0.00	C
ATOM	2057	NZ	LYS	216	17.114	90.041	14.192	1.00	0.00	N
ATOM	2058	HZ1	LYS	216	16.893	89.324	13.501	1.00	0.00	H
ATOM	2059	HZ2	LYS	216	16.996	89.707	15.148	1.00	0.00	H
ATOM	2060	HZ3	LYS	216	18.113	90.245	14.232	1.00	0.00	H
ATOM	2061	C	LYS	216	13.749	90.599	18.648	1.00	0.00	C
ATOM	2062	O	LYS	216	13.506	91.313	19.620	1.00	0.00	O
ATOM	2063	N	ALA	217	12.815	89.830	18.074	1.00	0.00	N
ATOM	2064	HN	ALA	217	13.089	89.209	17.313	1.00	0.00	H
ATOM	2065	CA	ALA	217	11.448	89.849	18.491	1.00	0.00	C
ATOM	2066	CB	ALA	217	10.577	88.890	17.661	1.00	0.00	C
ATOM	2067	C	ALA	217	11.366	89.413	19.925	1.00	0.00	C
ATOM	2068	O	ALA	217	10.511	89.872	20.678	1.00	0.00	O
ATOM	2069	N	GLY	218	12.231	88.469	20.328	1.00	0.00	N

ATOM	2070	HN	GLY	218	12.910	88.113	19.656	1.00	0.00	H
ATOM	2071	CA	GLY	218	12.244	87.936	21.665	1.00	0.00	C
ATOM	2072	C	GLY	218	12.625	88.964	22.706	1.00	0.00	C
ATOM	2073	O	GLY	218	12.173	88.887	23.848	1.00	0.00	O
ATOM	2074	N	ALA	219	13.555	89.887	22.392	1.00	0.00	N
ATOM	2075	HN	ALA	219	13.981	89.879	21.465	1.00	0.00	H
ATOM	2076	CA	ALA	219	13.954	90.887	23.354	1.00	0.00	C
ATOM	2077	CB	ALA	219	15.128	91.747	22.859	1.00	0.00	C
ATOM	2078	C	ALA	219	12.807	91.811	23.618	1.00	0.00	C
ATOM	2079	O	ALA	219	12.512	92.145	24.766	1.00	0.00	O
ATOM	2080	N	VAL	220	12.108	92.231	22.541	1.00	0.00	N
ATOM	2081	HN	VAL	220	12.397	91.927	21.611	1.00	0.00	H
ATOM	2082	CA	VAL	220	10.968	93.095	22.672	1.00	0.00	C
ATOM	2083	CB	VAL	220	10.377	93.641	21.396	1.00	0.00	C
ATOM	2084	CG1	VAL	220	11.432	94.517	20.717	1.00	0.00	C
ATOM	2085	CG2	VAL	220	9.828	92.511	20.519	1.00	0.00	C
ATOM	2086	C	VAL	220	9.934	92.288	23.372	1.00	0.00	C
ATOM	2087	O	VAL	220	8.897	92.787	23.799	1.00	0.00	O
ATOM	2088	N	ALA	221	10.135	90.966	23.356	1.00	0.00	N
ATOM	2089	HN	ALA	221	10.902	90.587	22.800	1.00	0.00	H
ATOM	2090	CA	ALA	221	9.309	90.074	24.093	1.00	0.00	C
ATOM	2091	CB	ALA	221	9.468	88.590	23.709	1.00	0.00	C
ATOM	2092	C	ALA	221	9.556	90.237	25.579	1.00	0.00	C
ATOM	2093	O	ALA	221	8.695	89.858	26.367	1.00	0.00	O
ATOM	2094	N	GLU	222	10.776	90.624	26.037	1.00	0.00	N
ATOM	2095	HN	GLU	222	11.543	90.845	25.402	1.00	0.00	H
ATOM	2096	CA	GLU	222	10.927	90.705	27.476	1.00	0.00	C
ATOM	2097	CB	GLU	222	12.295	90.258	28.027	1.00	0.00	C
ATOM	2098	CG	GLU	222	13.526	91.085	27.679	1.00	0.00	C
ATOM	2099	CD	GLU	222	14.601	90.574	28.633	1.00	0.00	C
ATOM	2100	OE1	GLU	222	14.412	90.743	29.868	1.00	0.00	O
ATOM	2101	OE2	GLU	222	15.607	89.990	28.149	1.00	0.00	O
ATOM	2102	C	GLU	222	10.477	91.952	28.220	1.00	0.00	C
ATOM	2103	O	GLU	222	9.603	91.856	29.080	1.00	0.00	O
ATOM	2104	N	GLU	223	11.002	93.164	27.905	1.00	0.00	N
ATOM	2105	HN	GLU	223	11.633	93.245	27.108	1.00	0.00	H
ATOM	2106	CA	GLU	223	10.680	94.348	28.685	1.00	0.00	C
ATOM	2107	CB	GLU	223	9.306	94.979	28.375	1.00	0.00	C
ATOM	2108	CG	GLU	223	8.175	93.986	28.102	1.00	0.00	C
ATOM	2109	CD	GLU	223	8.297	93.596	26.633	1.00	0.00	C
ATOM	2110	OE1	GLU	223	9.267	94.068	25.982	1.00	0.00	O
ATOM	2111	OE2	GLU	223	7.428	92.828	26.142	1.00	0.00	O
ATOM	2112	C	GLU	223	10.860	94.116	30.172	1.00	0.00	C
ATOM	2113	O	GLU	223	11.326	93.057	30.583	1.00	0.00	O
ATOM	2114	N	VAL	224	10.558	95.140	31.018	1.00	0.00	N
ATOM	2115	HN	VAL	224	10.174	95.999	30.623	1.00	0.00	H
ATOM	2116	CA	VAL	224	10.756	95.068	32.451	1.00	0.00	C
ATOM	2117	CB	VAL	224	10.723	96.401	33.140	1.00	0.00	C
ATOM	2118	CG1	VAL	224	10.771	96.161	34.659	1.00	0.00	C
ATOM	2119	CG2	VAL	224	11.895	97.252	32.618	1.00	0.00	C
ATOM	2120	C	VAL	224	9.713	94.207	33.095	1.00	0.00	C
ATOM	2121	O	VAL	224	8.548	94.199	32.703	1.00	0.00	O
ATOM	2122	N	LEU	225	10.201	93.284	33.944	1.00	0.00	N
ATOM	2123	HN	LEU	225	11.218	93.233	34.008	1.00	0.00	H
ATOM	2124	CA	LEU	225	9.475	92.362	34.772	1.00	0.00	C
ATOM	2125	CB	LEU	225	10.064	90.976	34.529	1.00	0.00	C
ATOM	2126	CG	LEU	225	10.191	90.842	32.995	1.00	0.00	C
ATOM	2127	CD1	LEU	225	10.586	89.444	32.533	1.00	0.00	C
ATOM	2128	CD2	LEU	225	8.938	91.372	32.288	1.00	0.00	C
ATOM	2129	C	LEU	225	9.398	92.712	36.236	1.00	0.00	C
ATOM	2130	O	LEU	225	8.609	92.117	36.967	1.00	0.00	O
ATOM	2131	N	ALA	226	10.320	93.570	36.723	1.00	0.00	N
ATOM	2132	HN	ALA	226	10.933	94.036	36.054	1.00	0.00	H
ATOM	2133	CA	ALA	226	10.500	93.876	38.126	1.00	0.00	C
ATOM	2134	CB	ALA	226	11.960	94.201	38.486	1.00	0.00	C
ATOM	2135	C	ALA	226	9.673	95.051	38.546	1.00	0.00	C
ATOM	2136	O	ALA	226	8.775	95.486	37.830	1.00	0.00	O
ATOM	2137	N	ALA	227	9.962	95.569	39.767	1.00	0.00	N
ATOM	2138	HN	ALA	227	10.718	95.144	40.304	1.00	0.00	H
ATOM	2139	CA	ALA	227	9.262	96.684	40.346	1.00	0.00	C
ATOM	2140	CB	ALA	227	9.277	97.936	39.455	1.00	0.00	C
ATOM	2141	C	ALA	227	7.855	96.242	40.514	1.00	0.00	C
ATOM	2142	O	ALA	227	6.920	97.029	40.620	1.00	0.00	O
ATOM	2143	N	ILE	228	7.713	94.926	40.665	1.00	0.00	N

ATOM	2144	HN	ILE	228	8.562	94.366	40.742	1.00	0.00	H
ATOM	2145	CA	ILE	228	6.467	94.241	40.727	1.00	0.00	C
ATOM	2146	CB	ILE	228	6.663	92.771	40.966	1.00	0.00	C
ATOM	2147	CG1	ILE	228	5.323	92.020	40.974	1.00	0.00	C
ATOM	2148	CG2	ILE	228	7.472	92.615	42.262	1.00	0.00	C
ATOM	2149	CD1	ILE	228	4.654	91.939	39.607	1.00	0.00	C
ATOM	2150	C	ILE	228	5.626	94.773	41.832	1.00	0.00	C
ATOM	2151	O	ILE	228	4.412	94.813	41.680	1.00	0.00	O
ATOM	2152	N	ARG	229	6.207	95.169	42.978	1.00	0.00	N
ATOM	2153	HN	ARG	229	7.222	95.142	43.079	1.00	0.00	H
ATOM	2154	CA	ARG	229	5.379	95.631	44.059	1.00	0.00	C
ATOM	2155	CB	ARG	229	6.224	96.139	45.240	1.00	0.00	C
ATOM	2156	CG	ARG	229	5.418	96.656	46.434	1.00	0.00	C
ATOM	2157	CD	ARG	229	6.299	97.247	47.539	1.00	0.00	C
ATOM	2158	NE	ARG	229	5.399	97.753	48.614	1.00	0.00	N
ATOM	2159	HE	ARG	229	4.396	97.577	48.563	1.00	0.00	H
ATOM	2160	CZ	ARG	229	5.916	98.451	49.667	1.00	0.00	C
ATOM	2161	NH1	ARG	229	7.257	98.699	49.735	1.00	0.00	N
ATOM	2162	1HH1	ARG	229	7.874	98.361	48.997	1.00	0.00	H
ATOM	2163	2HH1	ARG	229	7.643	99.221	50.522	1.00	0.00	H
ATOM	2164	NH2	ARG	229	5.089	98.904	50.656	1.00	0.00	N
ATOM	2165	1HH2	ARG	229	4.087	98.719	50.605	1.00	0.00	H
ATOM	2166	2HH2	ARG	229	5.475	99.426	51.443	1.00	0.00	H
ATOM	2167	C	ARG	229	4.569	96.782	43.554	1.00	0.00	C
ATOM	2168	O	ARG	229	3.345	96.789	43.685	1.00	0.00	O
ATOM	2169	N	THR	230	5.221	97.750	42.883	1.00	0.00	N
ATOM	2170	HN	THR	230	6.226	97.681	42.721	1.00	0.00	H
ATOM	2171	CA	THR	230	4.485	98.877	42.400	1.00	0.00	C
ATOM	2172	CB	THR	230	5.328	99.930	41.728	1.00	0.00	C
ATOM	2173	OG1	THR	230	5.947	99.419	40.557	1.00	0.00	O
ATOM	2174	HG1	THR	230	5.291	99.113	39.942	1.00	0.00	H
ATOM	2175	CG2	THR	230	6.388	100.425	42.722	1.00	0.00	C
ATOM	2176	C	THR	230	3.492	98.387	41.395	1.00	0.00	C
ATOM	2177	O	THR	230	2.384	98.913	41.302	1.00	0.00	O
ATOM	2178	N	VAL	231	3.876	97.379	40.590	1.00	0.00	N
ATOM	2179	HN	VAL	231	4.801	96.964	40.705	1.00	0.00	H
ATOM	2180	CA	VAL	231	2.992	96.882	39.568	1.00	0.00	C
ATOM	2181	CB	VAL	231	3.612	96.089	38.443	1.00	0.00	C
ATOM	2182	CG1	VAL	231	4.611	96.984	37.699	1.00	0.00	C
ATOM	2183	CG2	VAL	231	4.185	94.772	38.954	1.00	0.00	C
ATOM	2184	C	VAL	231	1.823	96.103	40.113	1.00	0.00	C
ATOM	2185	O	VAL	231	0.809	95.979	39.431	1.00	0.00	O
ATOM	2186	N	ILE	232	1.933	95.484	41.303	1.00	0.00	N
ATOM	2187	HN	ILE	232	2.808	95.539	41.824	1.00	0.00	H
ATOM	2188	CA	ILE	232	0.826	94.746	41.845	1.00	0.00	C
ATOM	2189	CB	ILE	232	1.156	94.049	43.134	1.00	0.00	C
ATOM	2190	CG1	ILE	232	2.118	92.876	42.884	1.00	0.00	C
ATOM	2191	CG2	ILE	232	-0.165	93.622	43.792	1.00	0.00	C
ATOM	2192	CD1	ILE	232	1.483	91.759	42.056	1.00	0.00	C
ATOM	2193	C	ILE	232	-0.269	95.725	42.122	1.00	0.00	C
ATOM	2194	O	ILE	232	-1.440	95.469	41.852	1.00	0.00	O
ATOM	2195	N	ALA	233	0.108	96.878	42.697	1.00	0.00	N
ATOM	2196	HN	ALA	233	1.089	96.984	42.954	1.00	0.00	H
ATOM	2197	CA	ALA	233	-0.779	97.972	42.974	1.00	0.00	C
ATOM	2198	CB	ALA	233	-0.096	99.116	43.744	1.00	0.00	C
ATOM	2199	C	ALA	233	-1.248	98.520	41.657	1.00	0.00	C
ATOM	2200	O	ALA	233	-2.222	99.266	41.586	1.00	0.00	O
ATOM	2201	N	PHE	234	-0.434	98.304	40.609	1.00	0.00	N
ATOM	2202	HN	PHE	234	0.438	97.806	40.785	1.00	0.00	H
ATOM	2203	CA	PHE	234	-0.700	98.723	39.256	1.00	0.00	C
ATOM	2204	CB	PHE	234	0.573	98.590	38.399	1.00	0.00	C
ATOM	2205	CG	PHE	234	0.390	99.286	37.096	1.00	0.00	C
ATOM	2206	CD1	PHE	234	0.378	100.661	37.045	1.00	0.00	C
ATOM	2207	CD2	PHE	234	0.270	98.571	35.927	1.00	0.00	C
ATOM	2208	CE1	PHE	234	0.222	101.315	35.847	1.00	0.00	C
ATOM	2209	CE2	PHE	234	0.113	99.220	34.726	1.00	0.00	C
ATOM	2210	CZ	PHE	234	0.087	100.594	34.685	1.00	0.00	C
ATOM	2211	C	PHE	234	-1.801	97.892	38.642	1.00	0.00	C
ATOM	2212	O	PHE	234	-2.714	98.435	38.014	1.00	0.00	O
ATOM	2213	N	GLY	235	-1.748	96.551	38.840	1.00	0.00	N
ATOM	2214	HN	GLY	235	-0.965	96.173	39.373	1.00	0.00	H
ATOM	2215	CA	GLY	235	-2.737	95.631	38.339	1.00	0.00	C
ATOM	2216	C	GLY	235	-2.101	94.473	37.641	1.00	0.00	C
ATOM	2217	O	GLY	235	-2.279	93.318	38.031	1.00	0.00	O

ATOM	2218	N	GLY	236	-1.318	94.743	36.596	1.00	0.00	N
ATOM	2219	HN	GLY	236	-1.174	95.709	36.304	1.00	0.00	H
ATOM	2220	CA	GLY	236	-0.685	93.686	35.890	1.00	0.00	C
ATOM	2221	C	GLY	236	-0.800	94.116	34.494	1.00	0.00	C
ATOM	2222	O	GLY	236	-1.917	94.265	33.993	1.00	0.00	O
ATOM	2223	N	GLN	237	0.363	94.320	33.847	1.00	0.00	N
ATOM	2224	HN	GLN	237	1.257	94.148	34.307	1.00	0.00	H
ATOM	2225	CA	GLN	237	0.309	94.781	32.506	1.00	0.00	C
ATOM	2226	CB	GLN	237	1.697	94.978	31.870	1.00	0.00	C
ATOM	2227	CG	GLN	237	2.400	96.269	32.306	1.00	0.00	C
ATOM	2228	CD	GLN	237	3.060	96.102	33.671	1.00	0.00	C
ATOM	2229	OE1	GLN	237	2.420	95.735	34.656	1.00	0.00	O
ATOM	2230	NE2	GLN	237	4.386	96.398	33.730	1.00	0.00	N
ATOM	2231	1HE2	GLN	237	4.827	96.286	34.643	1.00	0.00	H
ATOM	2232	2HE2	GLN	237	4.916	96.702	32.914	1.00	0.00	H
ATOM	2233	C	GLN	237	-0.449	93.713	31.778	1.00	0.00	C
ATOM	2234	O	GLN	237	-1.493	93.993	31.191	1.00	0.00	O
ATOM	2235	N	LYS	238	-0.012	92.443	31.920	1.00	0.00	N
ATOM	2236	HN	LYS	238	0.849	92.269	32.438	1.00	0.00	H
ATOM	2237	CA	LYS	238	-0.726	91.334	31.362	1.00	0.00	C
ATOM	2238	CB	LYS	238	-2.242	91.392	31.598	1.00	0.00	C
ATOM	2239	CG	LYS	238	-2.667	91.504	33.056	1.00	0.00	C
ATOM	2240	CD	LYS	238	-2.280	90.315	33.923	1.00	0.00	C
ATOM	2241	CE	LYS	238	-3.001	90.367	35.263	1.00	0.00	C
ATOM	2242	NZ	LYS	238	-3.004	91.760	35.755	1.00	0.00	N
ATOM	2243	HZ1	LYS	238	-3.487	91.795	36.653	1.00	0.00	H
ATOM	2244	HZ2	LYS	238	-3.399	92.411	35.076	1.00	0.00	H
ATOM	2245	HZ3	LYS	238	-2.065	92.157	35.804	1.00	0.00	H
ATOM	2246	C	LYS	238	-0.581	91.347	29.892	1.00	0.00	C
ATOM	2247	O	LYS	238	0.128	90.515	29.338	1.00	0.00	O
ATOM	2248	N	LYS	239	-1.378	92.235	29.263	1.00	0.00	N
ATOM	2249	HN	LYS	239	-1.965	92.803	29.874	1.00	0.00	H
ATOM	2250	CA	LYS	239	-1.520	92.497	27.862	1.00	0.00	C
ATOM	2251	CB	LYS	239	-2.748	93.343	27.511	1.00	0.00	C
ATOM	2252	CG	LYS	239	-2.800	93.594	26.007	1.00	0.00	C
ATOM	2253	CD	LYS	239	-4.118	94.152	25.491	1.00	0.00	C
ATOM	2254	CE	LYS	239	-4.061	94.487	24.002	1.00	0.00	C
ATOM	2255	NZ	LYS	239	-3.569	93.313	23.246	1.00	0.00	N
ATOM	2256	HZ1	LYS	239	-3.531	93.537	22.252	1.00	0.00	H
ATOM	2257	HZ2	LYS	239	-4.123	92.477	23.431	1.00	0.00	H
ATOM	2258	HZ3	LYS	239	-2.673	92.976	23.599	1.00	0.00	H
ATOM	2259	C	LYS	239	-0.357	93.204	27.232	1.00	0.00	C
ATOM	2260	O	LYS	239	-0.099	92.975	26.058	1.00	0.00	O
ATOM	2261	N	GLU	240	0.334	94.141	27.909	1.00	0.00	N
ATOM	2262	HN	GLU	240	0.103	94.387	28.871	1.00	0.00	H
ATOM	2263	CA	GLU	240	1.418	94.778	27.202	1.00	0.00	C
ATOM	2264	CB	GLU	240	2.140	95.840	28.043	1.00	0.00	C
ATOM	2265	CG	GLU	240	3.287	96.522	27.296	1.00	0.00	C
ATOM	2266	CD	GLU	240	3.969	97.488	28.255	1.00	0.00	C
ATOM	2267	OE1	GLU	240	4.528	97.010	29.278	1.00	0.00	O
ATOM	2268	OE2	GLU	240	3.942	98.716	27.977	1.00	0.00	O
ATOM	2269	C	GLU	240	2.423	93.720	26.900	1.00	0.00	C
ATOM	2270	O	GLU	240	2.902	93.603	25.773	1.00	0.00	O
ATOM	2271	N	LEU	241	2.752	92.909	27.923	1.00	0.00	N
ATOM	2272	HN	LEU	241	2.300	93.056	28.825	1.00	0.00	H
ATOM	2273	CA	LEU	241	3.709	91.848	27.803	1.00	0.00	C
ATOM	2274	CB	LEU	241	3.961	91.085	29.117	1.00	0.00	C
ATOM	2275	CG	LEU	241	2.733	91.039	30.038	1.00	0.00	C
ATOM	2276	CD1	LEU	241	2.884	89.978	31.130	1.00	0.00	C
ATOM	2277	CD2	LEU	241	2.517	92.413	30.681	1.00	0.00	C
ATOM	2278	C	LEU	241	3.204	90.835	26.832	1.00	0.00	C
ATOM	2279	O	LEU	241	3.913	90.464	25.903	1.00	0.00	O
ATOM	2280	N	GLU	242	1.946	90.388	26.990	1.00	0.00	N
ATOM	2281	HN	GLU	242	1.360	90.776	27.729	1.00	0.00	H
ATOM	2282	CA	GLU	242	1.423	89.372	26.128	1.00	0.00	C
ATOM	2283	CB	GLU	242	-0.014	88.973	26.521	1.00	0.00	C
ATOM	2284	CG	GLU	242	-0.644	87.880	25.654	1.00	0.00	C
ATOM	2285	CD	GLU	242	-1.422	88.548	24.532	1.00	0.00	C
ATOM	2286	OE1	GLU	242	-1.374	89.804	24.439	1.00	0.00	O
ATOM	2287	OE2	GLU	242	-2.084	87.807	23.758	1.00	0.00	O
ATOM	2288	C	GLU	242	1.417	89.904	24.729	1.00	0.00	C
ATOM	2289	O	GLU	242	1.821	89.205	23.804	1.00	0.00	O
ATOM	2290	N	ARG	243	0.998	91.171	24.533	1.00	0.00	N
ATOM	2291	HN	ARG	243	0.777	91.772	25.327	1.00	0.00	H

ATOM	2292	CA	ARG	243	0.868	91.659	23.194	1.00	0.00	C
ATOM	2293	CB	ARG	243	0.227	93.050	23.061	1.00	0.00	C
ATOM	2294	CG	ARG	243	0.994	94.217	23.670	1.00	0.00	C
ATOM	2295	CD	ARG	243	0.433	95.558	23.191	1.00	0.00	C
ATOM	2296	NE	ARG	243	0.562	95.576	21.704	1.00	0.00	N
ATOM	2297	HE	ARG	243	1.398	95.973	21.275	1.00	0.00	H
ATOM	2298	CZ	ARG	243	-0.427	95.066	20.911	1.00	0.00	C
ATOM	2299	NH1	ARG	243	-1.582	94.594	21.464	1.00	0.00	N
ATOM	2300	1HH1	ARG	243	-2.320	94.213	20.872	1.00	0.00	H
ATOM	2301	2HH1	ARG	243	-1.705	94.619	22.476	1.00	0.00	H
ATOM	2302	NH2	ARG	243	-0.262	95.033	19.557	1.00	0.00	N
ATOM	2303	1HH2	ARG	243	-1.000	94.652	18.965	1.00	0.00	H
ATOM	2304	2HH2	ARG	243	0.601	95.386	19.144	1.00	0.00	H
ATOM	2305	C	ARG	243	2.199	91.663	22.515	1.00	0.00	C
ATOM	2306	O	ARG	243	2.303	91.151	21.408	1.00	0.00	O
ATOM	2307	N	TYR	244	3.262	92.204	23.142	1.00	0.00	N
ATOM	2308	HN	TYR	244	3.160	92.621	24.067	1.00	0.00	H
ATOM	2309	CA	TYR	244	4.540	92.184	22.488	1.00	0.00	C
ATOM	2310	CB	TYR	244	5.644	92.913	23.277	1.00	0.00	C
ATOM	2311	CG	TYR	244	5.393	94.377	23.183	1.00	0.00	C
ATOM	2312	CD1	TYR	244	4.516	94.996	24.043	1.00	0.00	C
ATOM	2313	CD2	TYR	244	6.030	95.128	22.221	1.00	0.00	C
ATOM	2314	CE1	TYR	244	4.284	96.349	23.949	1.00	0.00	C
ATOM	2315	CE2	TYR	244	5.802	96.479	22.123	1.00	0.00	C
ATOM	2316	CZ	TYR	244	4.928	97.092	22.987	1.00	0.00	C
ATOM	2317	OH	TYR	244	4.692	98.479	22.886	1.00	0.00	O
ATOM	2318	HH	TYR	244	5.137	98.992	22.222	1.00	0.00	H
ATOM	2319	C	TYR	244	4.979	90.760	22.347	1.00	0.00	C
ATOM	2320	O	TYR	244	5.458	90.358	21.289	1.00	0.00	O
ATOM	2321	N	ASN	245	4.805	89.946	23.406	1.00	0.00	N
ATOM	2322	HN	ASN	245	4.319	90.287	24.235	1.00	0.00	H
ATOM	2323	CA	ASN	245	5.303	88.597	23.370	1.00	0.00	C
ATOM	2324	CB	ASN	245	4.881	87.758	24.589	1.00	0.00	C
ATOM	2325	CG	ASN	245	5.766	88.105	25.768	1.00	0.00	C
ATOM	2326	OD1	ASN	245	5.295	88.529	26.821	1.00	0.00	O
ATOM	2327	ND2	ASN	245	7.094	87.891	25.588	1.00	0.00	N
ATOM	2328	1HD2	ASN	245	7.690	88.125	26.382	1.00	0.00	H
ATOM	2329	2HD2	ASN	245	7.485	87.539	24.714	1.00	0.00	H
ATOM	2330	C	ASN	245	4.742	87.862	22.198	1.00	0.00	C
ATOM	2331	O	ASN	245	5.468	87.566	21.254	1.00	0.00	O
ATOM	2332	N	LYS	246	3.418	87.629	22.192	1.00	0.00	N
ATOM	2333	HN	LYS	246	2.854	88.026	22.944	1.00	0.00	H
ATOM	2334	CA	LYS	246	2.757	86.852	21.184	1.00	0.00	C
ATOM	2335	CB	LYS	246	1.264	86.623	21.475	1.00	0.00	C
ATOM	2336	CG	LYS	246	1.011	85.724	22.687	1.00	0.00	C
ATOM	2337	CD	LYS	246	-0.454	85.678	23.125	1.00	0.00	C
ATOM	2338	CE	LYS	246	-1.344	84.869	22.178	1.00	0.00	C
ATOM	2339	NZ	LYS	246	-2.717	84.777	22.723	1.00	0.00	N
ATOM	2340	HZ1	LYS	246	-3.310	84.238	22.092	1.00	0.00	H
ATOM	2341	HZ2	LYS	246	-3.110	85.697	22.924	1.00	0.00	H
ATOM	2342	HZ3	LYS	246	-2.727	84.400	23.671	1.00	0.00	H
ATOM	2343	C	LYS	246	2.865	87.552	19.872	1.00	0.00	C
ATOM	2344	O	LYS	246	2.808	86.900	18.832	1.00	0.00	O
ATOM	2345	N	ASN	247	2.957	88.898	19.875	1.00	0.00	N
ATOM	2346	HN	ASN	247	3.003	89.413	20.754	1.00	0.00	H
ATOM	2347	CA	ASN	247	2.989	89.594	18.619	1.00	0.00	C
ATOM	2348	CB	ASN	247	3.074	91.120	18.784	1.00	0.00	C
ATOM	2349	CG	ASN	247	2.784	91.781	17.444	1.00	0.00	C
ATOM	2350	OD1	ASN	247	3.314	91.380	16.409	1.00	0.00	O
ATOM	2351	ND2	ASN	247	1.909	92.824	17.464	1.00	0.00	N
ATOM	2352	1HD2	ASN	247	1.469	93.157	18.322	1.00	0.00	H
ATOM	2353	2HD2	ASN	247	1.715	93.267	16.566	1.00	0.00	H
ATOM	2354	C	ASN	247	4.195	89.185	17.832	1.00	0.00	C
ATOM	2355	O	ASN	247	4.074	88.527	16.801	1.00	0.00	O
ATOM	2356	N	LEU	248	5.401	89.511	18.340	1.00	0.00	N
ATOM	2357	HN	LEU	248	5.448	89.985	19.242	1.00	0.00	H
ATOM	2358	CA	LEU	248	6.617	89.209	17.646	1.00	0.00	C
ATOM	2359	CB	LEU	248	7.856	89.762	18.373	1.00	0.00	C
ATOM	2360	CG	LEU	248	7.961	91.300	18.372	1.00	0.00	C
ATOM	2361	CD1	LEU	248	8.195	91.842	16.953	1.00	0.00	C
ATOM	2362	CD2	LEU	248	6.757	91.948	19.070	1.00	0.00	C
ATOM	2363	C	LEU	248	6.755	87.726	17.589	1.00	0.00	C
ATOM	2364	O	LEU	248	7.085	87.163	16.548	1.00	0.00	O
ATOM	2365	N	GLU	249	6.467	87.048	18.714	1.00	0.00	N

ATOM	2366	HN	GLU	249	6.116	87.542	19.535	1.00	0.00	H
ATOM	2367	CA	GLU	249	6.655	85.632	18.753	1.00	0.00	C
ATOM	2368	CB	GLU	249	6.283	84.972	20.089	1.00	0.00	C
ATOM	2369	CG	GLU	249	7.303	85.189	21.204	1.00	0.00	C
ATOM	2370	CD	GLU	249	7.005	84.162	22.284	1.00	0.00	C
ATOM	2371	OE1	GLU	249	5.887	84.197	22.863	1.00	0.00	O
ATOM	2372	OE2	GLU	249	7.903	83.315	22.535	1.00	0.00	O
ATOM	2373	C	GLU	249	5.810	84.981	17.731	1.00	0.00	C
ATOM	2374	O	GLU	249	6.350	84.211	16.961	1.00	0.00	O
ATOM	2375	N	GLU	250	4.500	85.273	17.641	1.00	0.00	N
ATOM	2376	HN	GLU	250	4.086	85.980	18.248	1.00	0.00	H
ATOM	2377	CA	GLU	250	3.691	84.577	16.680	1.00	0.00	C
ATOM	2378	CB	GLU	250	2.208	84.994	16.698	1.00	0.00	C
ATOM	2379	CG	GLU	250	1.450	84.601	17.968	1.00	0.00	C
ATOM	2380	CD	GLU	250	0.003	85.054	17.817	1.00	0.00	C
ATOM	2381	OE1	GLU	250	-0.724	84.449	16.985	1.00	0.00	O
ATOM	2382	OE2	GLU	250	-0.394	86.014	18.530	1.00	0.00	O
ATOM	2383	C	GLU	250	4.198	84.897	15.312	1.00	0.00	C
ATOM	2384	O	GLU	250	4.304	84.007	14.470	1.00	0.00	O
ATOM	2385	N	ALA	251	4.564	86.172	15.063	1.00	0.00	N
ATOM	2386	HN	ALA	251	4.602	86.852	15.822	1.00	0.00	H
ATOM	2387	CA	ALA	251	4.899	86.565	13.725	1.00	0.00	C
ATOM	2388	CB	ALA	251	5.332	88.038	13.643	1.00	0.00	C
ATOM	2389	C	ALA	251	6.037	85.739	13.224	1.00	0.00	C
ATOM	2390	O	ALA	251	5.888	85.018	12.242	1.00	0.00	O
ATOM	2391	N	LYS	252	7.175	85.763	13.933	1.00	0.00	N
ATOM	2392	HN	LYS	252	7.214	86.353	14.764	1.00	0.00	H
ATOM	2393	CA	LYS	252	8.336	85.005	13.584	1.00	0.00	C
ATOM	2394	CB	LYS	252	9.575	85.372	14.418	1.00	0.00	C
ATOM	2395	CG	LYS	252	10.101	86.786	14.160	1.00	0.00	C
ATOM	2396	CD	LYS	252	9.142	87.890	14.611	1.00	0.00	C
ATOM	2397	CE	LYS	252	9.765	89.287	14.602	1.00	0.00	C
ATOM	2398	NZ	LYS	252	10.155	89.661	13.225	1.00	0.00	N
ATOM	2399	HZ1	LYS	252	10.570	90.593	13.219	1.00	0.00	H
ATOM	2400	HZ2	LYS	252	9.373	89.587	12.574	1.00	0.00	H
ATOM	2401	HZ3	LYS	252	10.769	88.966	12.800	1.00	0.00	H
ATOM	2402	C	LYS	252	8.006	83.583	13.869	1.00	0.00	C
ATOM	2403	O	LYS	252	8.766	82.696	13.514	1.00	0.00	O
ATOM	2404	N	ARG	253	6.957	83.318	14.664	1.00	0.00	N
ATOM	2405	HN	ARG	253	6.393	84.068	15.064	1.00	0.00	H
ATOM	2406	CA	ARG	253	6.662	81.944	14.928	1.00	0.00	C
ATOM	2407	CB	ARG	253	5.401	81.654	15.766	1.00	0.00	C
ATOM	2408	CG	ARG	253	5.572	81.616	17.282	1.00	0.00	C
ATOM	2409	CD	ARG	253	6.774	80.805	17.763	1.00	0.00	C
ATOM	2410	NE	ARG	253	7.467	81.686	18.737	1.00	0.00	N
ATOM	2411	HE	ARG	253	7.349	81.537	19.739	1.00	0.00	H
ATOM	2412	CZ	ARG	253	8.262	82.694	18.282	1.00	0.00	C
ATOM	2413	NH1	ARG	253	8.589	82.774	16.958	1.00	0.00	N
ATOM	2414	1HH1	ARG	253	8.271	82.060	16.302	1.00	0.00	H
ATOM	2415	2HH1	ARG	253	9.184	83.529	16.617	1.00	0.00	H
ATOM	2416	NH2	ARG	253	8.686	83.647	19.158	1.00	0.00	N
ATOM	2417	1HH2	ARG	253	8.442	83.587	20.147	1.00	0.00	H
ATOM	2418	2HH2	ARG	253	9.281	84.402	18.817	1.00	0.00	H
ATOM	2419	C	ARG	253	6.331	81.362	13.630	1.00	0.00	C
ATOM	2420	O	ARG	253	7.190	80.780	13.005	1.00	0.00	O
ATOM	2421	N	ILE	254	5.147	81.697	13.100	1.00	0.00	N
ATOM	2422	HN	ILE	254	4.555	82.369	13.589	1.00	0.00	H
ATOM	2423	CA	ILE	254	4.695	81.138	11.871	1.00	0.00	C
ATOM	2424	CB	ILE	254	3.344	81.636	11.439	1.00	0.00	C
ATOM	2425	CG1	ILE	254	3.383	83.148	11.175	1.00	0.00	C
ATOM	2426	CG2	ILE	254	2.314	81.217	12.499	1.00	0.00	C
ATOM	2427	CD1	ILE	254	2.152	83.665	10.432	1.00	0.00	C
ATOM	2428	C	ILE	254	5.678	81.541	10.833	1.00	0.00	C
ATOM	2429	O	ILE	254	5.841	80.807	9.872	1.00	0.00	O
ATOM	2430	N	GLY	255	6.287	82.742	10.940	1.00	0.00	N
ATOM	2431	HN	GLY	255	6.080	83.334	11.744	1.00	0.00	H
ATOM	2432	CA	GLY	255	7.224	83.209	9.945	1.00	0.00	C
ATOM	2433	C	GLY	255	8.500	82.402	9.880	1.00	0.00	C
ATOM	2434	O	GLY	255	8.846	81.872	8.827	1.00	0.00	O
ATOM	2435	N	ILE	256	9.222	82.273	11.011	1.00	0.00	N
ATOM	2436	HN	ILE	256	8.871	82.745	11.845	1.00	0.00	H
ATOM	2437	CA	ILE	256	10.445	81.527	11.143	1.00	0.00	C
ATOM	2438	CB	ILE	256	11.122	81.537	12.485	1.00	0.00	C
ATOM	2439	CG1	ILE	256	12.593	81.137	12.290	1.00	0.00	C

ATOM	2440	CG2	ILE	256	10.416	80.528	13.412	1.00	0.00	C
ATOM	2441	CD1	ILE	256	13.409	81.198	13.574	1.00	0.00	C
ATOM	2442	C	ILE	256	10.045	80.123	10.960	1.00	0.00	C
ATOM	2443	O	ILE	256	10.901	79.260	10.862	1.00	0.00	O
ATOM	2444	N	LYS	257	8.752	79.869	11.208	1.00	0.00	N
ATOM	2445	HN	LYS	257	8.197	80.646	11.567	1.00	0.00	H
ATOM	2446	CA	LYS	257	8.066	78.628	11.024	1.00	0.00	C
ATOM	2447	CB	LYS	257	6.725	78.388	11.762	1.00	0.00	C
ATOM	2448	CG	LYS	257	6.789	78.130	13.278	1.00	0.00	C
ATOM	2449	CD	LYS	257	7.799	77.102	13.770	1.00	0.00	C
ATOM	2450	CE	LYS	257	7.860	77.031	15.298	1.00	0.00	C
ATOM	2451	NZ	LYS	257	8.344	78.318	15.850	1.00	0.00	N
ATOM	2452	HZ1	LYS	257	8.385	78.271	16.868	1.00	0.00	H
ATOM	2453	HZ2	LYS	257	7.783	79.106	15.527	1.00	0.00	H
ATOM	2454	HZ3	LYS	257	9.238	78.594	15.445	1.00	0.00	H
ATOM	2455	C	LYS	257	7.756	78.434	9.583	1.00	0.00	C
ATOM	2456	O	LYS	257	7.335	77.350	9.210	1.00	0.00	O
ATOM	2457	N	LYS	258	7.738	79.507	8.776	1.00	0.00	N
ATOM	2458	HN	LYS	258	7.879	80.432	9.182	1.00	0.00	H
ATOM	2459	CA	LYS	258	7.528	79.396	7.367	1.00	0.00	C
ATOM	2460	CB	LYS	258	7.303	80.742	6.658	1.00	0.00	C
ATOM	2461	CG	LYS	258	7.125	80.580	5.147	1.00	0.00	C
ATOM	2462	CD	LYS	258	6.605	81.829	4.435	1.00	0.00	C
ATOM	2463	CE	LYS	258	6.618	81.699	2.911	1.00	0.00	C
ATOM	2464	NZ	LYS	258	5.752	80.575	2.487	1.00	0.00	N
ATOM	2465	HZ1	LYS	258	5.761	80.488	1.471	1.00	0.00	H
ATOM	2466	HZ2	LYS	258	4.804	80.664	2.854	1.00	0.00	H
ATOM	2467	HZ3	LYS	258	6.009	79.701	2.946	1.00	0.00	H
ATOM	2468	C	LYS	258	8.805	78.865	6.893	1.00	0.00	C
ATOM	2469	O	LYS	258	8.856	78.050	5.983	1.00	0.00	O
ATOM	2470	N	ALA	259	9.867	79.420	7.501	1.00	0.00	N
ATOM	2471	HN	ALA	259	9.679	80.205	8.124	1.00	0.00	H
ATOM	2472	CA	ALA	259	11.223	79.025	7.364	1.00	0.00	C
ATOM	2473	CB	ALA	259	12.198	79.995	8.053	1.00	0.00	C
ATOM	2474	C	ALA	259	11.347	77.698	8.032	1.00	0.00	C
ATOM	2475	O	ALA	259	12.192	76.906	7.650	1.00	0.00	O
ATOM	2476	N	ILE	260	10.573	77.457	9.111	1.00	0.00	N
ATOM	2477	HN	ILE	260	9.868	78.142	9.385	1.00	0.00	H
ATOM	2478	CA	ILE	260	10.723	76.254	9.881	1.00	0.00	C
ATOM	2479	CB	ILE	260	10.092	76.319	11.268	1.00	0.00	C
ATOM	2480	CG1	ILE	260	10.955	75.513	12.242	1.00	0.00	C
ATOM	2481	CG2	ILE	260	8.657	75.761	11.295	1.00	0.00	C
ATOM	2482	CD1	ILE	260	12.287	76.186	12.567	1.00	0.00	C
ATOM	2483	C	ILE	260	10.146	75.165	9.049	1.00	0.00	C
ATOM	2484	O	ILE	260	10.786	74.158	8.761	1.00	0.00	O
ATOM	2485	N	THR	261	8.927	75.441	8.555	1.00	0.00	N
ATOM	2486	HN	THR	261	8.531	76.344	8.815	1.00	0.00	H
ATOM	2487	CA	THR	261	8.126	74.629	7.717	1.00	0.00	C
ATOM	2488	CB	THR	261	6.696	75.066	7.523	1.00	0.00	C
ATOM	2489	OG1	THR	261	6.633	76.360	6.943	1.00	0.00	O
ATOM	2490	HG1	THR	261	7.092	76.392	6.112	1.00	0.00	H
ATOM	2491	CG2	THR	261	5.953	75.014	8.870	1.00	0.00	C
ATOM	2492	C	THR	261	8.807	74.697	6.416	1.00	0.00	C
ATOM	2493	O	THR	261	8.311	74.123	5.462	1.00	0.00	O
ATOM	2494	N	ALA	262	9.746	75.655	6.303	1.00	0.00	N
ATOM	2495	HN	ALA	262	9.791	76.336	7.061	1.00	0.00	H
ATOM	2496	CA	ALA	262	10.691	75.828	5.238	1.00	0.00	C
ATOM	2497	CB	ALA	262	11.289	77.227	5.060	1.00	0.00	C
ATOM	2498	C	ALA	262	11.857	74.917	5.391	1.00	0.00	C
ATOM	2499	O	ALA	262	12.555	74.685	4.419	1.00	0.00	O
ATOM	2500	N	ASN	263	12.248	74.566	6.630	1.00	0.00	N
ATOM	2501	HN	ASN	263	11.784	74.984	7.436	1.00	0.00	H
ATOM	2502	CA	ASN	263	13.298	73.621	6.841	1.00	0.00	C
ATOM	2503	CB	ASN	263	13.753	73.544	8.308	1.00	0.00	C
ATOM	2504	CG	ASN	263	14.889	72.537	8.398	1.00	0.00	C
ATOM	2505	OD1	ASN	263	14.671	71.328	8.321	1.00	0.00	O
ATOM	2506	ND2	ASN	263	16.140	73.048	8.556	1.00	0.00	N
ATOM	2507	1HD2	ASN	263	16.902	72.373	8.616	1.00	0.00	H
ATOM	2508	2HD2	ASN	263	16.321	74.050	8.620	1.00	0.00	H
ATOM	2509	C	ASN	263	12.587	72.376	6.498	1.00	0.00	C
ATOM	2510	O	ASN	263	13.092	71.431	5.894	1.00	0.00	O
ATOM	2511	N	ILE	264	11.316	72.389	6.903	1.00	0.00	N
ATOM	2512	HN	ILE	264	10.951	73.181	7.432	1.00	0.00	H
ATOM	2513	CA	ILE	264	10.481	71.294	6.592	1.00	0.00	C

ATOM	2514	CB	ILE	264	9.116	71.476	7.190	1.00	0.00	C
ATOM	2515	CG1	ILE	264	9.213	71.457	8.725	1.00	0.00	C
ATOM	2516	CG2	ILE	264	8.177	70.406	6.618	1.00	0.00	C
ATOM	2517	CD1	ILE	264	9.751	70.135	9.277	1.00	0.00	C
ATOM	2518	C	ILE	264	10.360	71.292	5.108	1.00	0.00	C
ATOM	2519	O	ILE	264	10.659	70.312	4.433	1.00	0.00	O
ATOM	2520	N	SER	265	10.023	72.464	4.560	1.00	0.00	N
ATOM	2521	HN	SER	265	9.931	73.276	5.170	1.00	0.00	H
ATOM	2522	CA	SER	265	9.786	72.633	3.165	1.00	0.00	C
ATOM	2523	CB	SER	265	9.339	74.044	2.737	1.00	0.00	C
ATOM	2524	OG	SER	265	7.941	74.208	2.925	1.00	0.00	O
ATOM	2525	HG	SER	265	7.665	75.078	2.661	1.00	0.00	H
ATOM	2526	C	SER	265	11.063	72.358	2.480	1.00	0.00	C
ATOM	2527	O	SER	265	11.072	72.134	1.276	1.00	0.00	O
ATOM	2528	N	ILE	266	12.183	72.482	3.215	1.00	0.00	N
ATOM	2529	HN	ILE	266	12.118	72.789	4.185	1.00	0.00	H
ATOM	2530	CA	ILE	266	13.462	72.188	2.652	1.00	0.00	C
ATOM	2531	CB	ILE	266	14.709	72.925	3.121	1.00	0.00	C
ATOM	2532	CG1	ILE	266	15.060	72.767	4.600	1.00	0.00	C
ATOM	2533	CG2	ILE	266	14.598	74.376	2.628	1.00	0.00	C
ATOM	2534	CD1	ILE	266	16.468	73.251	4.945	1.00	0.00	C
ATOM	2535	C	ILE	266	13.660	70.725	2.588	1.00	0.00	C
ATOM	2536	O	ILE	266	14.263	70.238	1.636	1.00	0.00	O
ATOM	2537	N	GLY	267	13.166	69.987	3.605	1.00	0.00	N
ATOM	2538	HN	GLY	267	12.727	70.439	4.407	1.00	0.00	H
ATOM	2539	CA	GLY	267	13.268	68.560	3.541	1.00	0.00	C
ATOM	2540	C	GLY	267	12.527	68.252	2.281	1.00	0.00	C
ATOM	2541	O	GLY	267	12.934	67.421	1.470	1.00	0.00	O
ATOM	2542	N	ALA	268	11.429	69.001	2.084	1.00	0.00	N
ATOM	2543	HN	ALA	268	11.161	69.664	2.811	1.00	0.00	H
ATOM	2544	CA	ALA	268	10.618	68.919	0.914	1.00	0.00	C
ATOM	2545	CB	ALA	268	9.401	69.856	0.972	1.00	0.00	C
ATOM	2546	C	ALA	268	11.441	69.327	-0.270	1.00	0.00	C
ATOM	2547	O	ALA	268	11.264	68.782	-1.356	1.00	0.00	O
ATOM	2548	N	ALA	269	12.324	70.339	-0.128	1.00	0.00	N
ATOM	2549	HN	ALA	269	12.465	70.787	0.777	1.00	0.00	H
ATOM	2550	CA	ALA	269	13.058	70.768	-1.284	1.00	0.00	C
ATOM	2551	CB	ALA	269	13.950	71.983	-1.000	1.00	0.00	C
ATOM	2552	C	ALA	269	13.960	69.673	-1.732	1.00	0.00	C
ATOM	2553	O	ALA	269	13.684	69.043	-2.750	1.00	0.00	O
ATOM	2554	N	PHE	270	14.932	69.289	-0.873	1.00	0.00	N
ATOM	2555	HN	PHE	270	14.971	69.702	0.059	1.00	0.00	H
ATOM	2556	CA	PHE	270	15.907	68.311	-1.252	1.00	0.00	C
ATOM	2557	CB	PHE	270	16.918	67.912	-0.159	1.00	0.00	C
ATOM	2558	CG	PHE	270	18.159	68.722	-0.317	1.00	0.00	C
ATOM	2559	CD1	PHE	270	19.027	68.402	-1.337	1.00	0.00	C
ATOM	2560	CD2	PHE	270	18.484	69.751	0.536	1.00	0.00	C
ATOM	2561	CE1	PHE	270	20.192	69.105	-1.526	1.00	0.00	C
ATOM	2562	CE2	PHE	270	19.652	70.458	0.352	1.00	0.00	C
ATOM	2563	CZ	PHE	270	20.504	70.140	-0.679	1.00	0.00	C
ATOM	2564	C	PHE	270	15.219	67.059	-1.663	1.00	0.00	C
ATOM	2565	O	PHE	270	15.667	66.416	-2.606	1.00	0.00	O
ATOM	2566	N	LEU	271	14.166	66.647	-0.935	1.00	0.00	N
ATOM	2567	HN	LEU	271	13.877	67.201	-0.129	1.00	0.00	H
ATOM	2568	CA	LEU	271	13.433	65.450	-1.256	1.00	0.00	C
ATOM	2569	CB	LEU	271	12.480	65.010	-0.133	1.00	0.00	C
ATOM	2570	CG	LEU	271	13.229	64.576	1.140	1.00	0.00	C
ATOM	2571	CD1	LEU	271	12.270	64.041	2.215	1.00	0.00	C
ATOM	2572	CD2	LEU	271	14.352	63.584	0.803	1.00	0.00	C
ATOM	2573	C	LEU	271	12.616	65.551	-2.526	1.00	0.00	C
ATOM	2574	O	LEU	271	12.652	64.645	-3.355	1.00	0.00	O
ATOM	2575	N	LEU	272	11.851	66.648	-2.721	1.00	0.00	N
ATOM	2576	HN	LEU	272	11.879	67.396	-2.028	1.00	0.00	H
ATOM	2577	CA	LEU	272	10.995	66.799	-3.876	1.00	0.00	C
ATOM	2578	CB	LEU	272	10.250	68.154	-3.855	1.00	0.00	C
ATOM	2579	CG	LEU	272	9.272	68.449	-5.017	1.00	0.00	C
ATOM	2580	CD1	LEU	272	9.965	68.567	-6.379	1.00	0.00	C
ATOM	2581	CD2	LEU	272	8.101	67.464	-5.032	1.00	0.00	C
ATOM	2582	C	LEU	272	11.898	66.779	-5.063	1.00	0.00	C
ATOM	2583	O	LEU	272	11.664	66.079	-6.046	1.00	0.00	O
ATOM	2584	N	ILE	273	12.984	67.554	-4.955	1.00	0.00	N
ATOM	2585	HN	ILE	273	13.073	68.116	-4.108	1.00	0.00	H
ATOM	2586	CA	ILE	273	14.028	67.662	-5.923	1.00	0.00	C
ATOM	2587	CB	ILE	273	15.002	68.750	-5.574	1.00	0.00	C

ATOM	2588	CG1	ILE	273	14.371	70.128	-5.857	1.00	0.00	C
ATOM	2589	CG2	ILE	273	16.312	68.507	-6.336	1.00	0.00	C
ATOM	2590	CD1	ILE	273	13.119	70.438	-5.039	1.00	0.00	C
ATOM	2591	C	ILE	273	14.717	66.342	-5.994	1.00	0.00	C
ATOM	2592	O	ILE	273	15.337	66.018	-7.004	1.00	0.00	O
ATOM	2593	N	TYR	274	14.707	65.596	-4.872	1.00	0.00	N
ATOM	2594	HN	TYR	274	14.247	65.967	-4.041	1.00	0.00	H
ATOM	2595	CA	TYR	274	15.317	64.304	-4.802	1.00	0.00	C
ATOM	2596	CB	TYR	274	15.237	63.718	-3.379	1.00	0.00	C
ATOM	2597	CG	TYR	274	15.591	62.271	-3.395	1.00	0.00	C
ATOM	2598	CD1	TYR	274	16.896	61.864	-3.547	1.00	0.00	C
ATOM	2599	CD2	TYR	274	14.604	61.318	-3.273	1.00	0.00	C
ATOM	2600	CE1	TYR	274	17.211	60.525	-3.560	1.00	0.00	C
ATOM	2601	CE2	TYR	274	14.912	59.978	-3.284	1.00	0.00	C
ATOM	2602	CZ	TYR	274	16.220	59.581	-3.426	1.00	0.00	C
ATOM	2603	OH	TYR	274	16.544	58.208	-3.438	1.00	0.00	O
ATOM	2604	HH	TYR	274	15.859	57.556	-3.345	1.00	0.00	H
ATOM	2605	C	TYR	274	14.603	63.410	-5.754	1.00	0.00	C
ATOM	2606	O	TYR	274	15.220	62.846	-6.641	1.00	0.00	O
ATOM	2607	N	ALA	275	13.271	63.328	-5.681	1.00	0.00	N
ATOM	2608	HN	ALA	275	12.771	63.885	-4.988	1.00	0.00	H
ATOM	2609	CA	ALA	275	12.536	62.470	-6.561	1.00	0.00	C
ATOM	2610	CB	ALA	275	11.019	62.516	-6.313	1.00	0.00	C
ATOM	2611	C	ALA	275	12.787	62.954	-7.943	1.00	0.00	C
ATOM	2612	O	ALA	275	12.744	62.178	-8.895	1.00	0.00	O
ATOM	2613	N	SER	276	13.002	64.275	-8.082	1.00	0.00	N
ATOM	2614	HN	SER	276	12.965	64.874	-7.257	1.00	0.00	H
ATOM	2615	CA	SER	276	13.281	64.860	-9.358	1.00	0.00	C
ATOM	2616	CB	SER	276	13.554	66.368	-9.276	1.00	0.00	C
ATOM	2617	OG	SER	276	13.838	66.874	-10.571	1.00	0.00	O
ATOM	2618	HG	SER	276	14.007	67.807	-10.520	1.00	0.00	H
ATOM	2619	C	SER	276	14.519	64.212	-9.881	1.00	0.00	C
ATOM	2620	O	SER	276	14.604	63.940	-11.079	1.00	0.00	O
ATOM	2621	N	TYR	277	15.488	63.921	-8.981	1.00	0.00	N
ATOM	2622	HN	TYR	277	15.346	64.150	-7.997	1.00	0.00	H
ATOM	2623	CA	TYR	277	16.707	63.297	-9.392	1.00	0.00	C
ATOM	2624	CB	TYR	277	17.729	62.899	-8.276	1.00	0.00	C
ATOM	2625	CG	TYR	277	17.718	61.435	-7.890	1.00	0.00	C
ATOM	2626	CD1	TYR	277	18.350	60.490	-8.670	1.00	0.00	C
ATOM	2627	CD2	TYR	277	17.138	60.975	-6.731	1.00	0.00	C
ATOM	2628	CE1	TYR	277	18.346	59.159	-8.315	1.00	0.00	C
ATOM	2629	CE2	TYR	277	17.128	59.652	-6.370	1.00	0.00	C
ATOM	2630	CZ	TYR	277	17.735	58.728	-7.171	1.00	0.00	C
ATOM	2631	OH	TYR	277	17.742	57.361	-6.824	1.00	0.00	O
ATOM	2632	HH	TYR	277	17.317	57.061	-6.029	1.00	0.00	H
ATOM	2633	C	TYR	277	16.234	62.039	-9.996	1.00	0.00	C
ATOM	2634	O	TYR	277	16.615	61.736	-11.110	1.00	0.00	O
ATOM	2635	N	ALA	278	15.297	61.340	-9.332	1.00	0.00	N
ATOM	2636	HN	ALA	278	14.919	61.719	-8.464	1.00	0.00	H
ATOM	2637	CA	ALA	278	14.815	60.081	-9.808	1.00	0.00	C
ATOM	2638	CB	ALA	278	13.677	59.526	-8.938	1.00	0.00	C
ATOM	2639	C	ALA	278	14.264	60.292	-11.180	1.00	0.00	C
ATOM	2640	O	ALA	278	14.457	59.461	-12.065	1.00	0.00	O
ATOM	2641	N	LEU	279	13.578	61.429	-11.398	1.00	0.00	N
ATOM	2642	HN	LEU	279	13.503	62.120	-10.651	1.00	0.00	H
ATOM	2643	CA	LEU	279	12.951	61.686	-12.662	1.00	0.00	C
ATOM	2644	CB	LEU	279	12.393	63.118	-12.677	1.00	0.00	C
ATOM	2645	CG	LEU	279	11.564	63.502	-13.911	1.00	0.00	C
ATOM	2646	CD1	LEU	279	10.143	62.922	-13.821	1.00	0.00	C
ATOM	2647	CD2	LEU	279	11.591	65.019	-14.148	1.00	0.00	C
ATOM	2648	C	LEU	279	13.972	61.637	-13.766	1.00	0.00	C
ATOM	2649	O	LEU	279	13.994	60.716	-14.575	1.00	0.00	O
ATOM	2650	N	ALA	280	14.928	62.577	-13.774	1.00	0.00	N
ATOM	2651	HN	ALA	280	14.971	63.263	-13.020	1.00	0.00	H
ATOM	2652	CA	ALA	280	15.890	62.623	-14.837	1.00	0.00	C
ATOM	2653	CB	ALA	280	16.880	63.792	-14.681	1.00	0.00	C
ATOM	2654	C	ALA	280	16.657	61.354	-14.765	1.00	0.00	C
ATOM	2655	O	ALA	280	17.080	60.800	-15.777	1.00	0.00	O
ATOM	2656	N	PHE	281	16.847	60.868	-13.532	1.00	0.00	N
ATOM	2657	HN	PHE	281	16.402	61.347	-12.749	1.00	0.00	H
ATOM	2658	CA	PHE	281	17.641	59.713	-13.259	1.00	0.00	C
ATOM	2659	CB	PHE	281	17.439	59.253	-11.806	1.00	0.00	C
ATOM	2660	CG	PHE	281	18.454	58.302	-11.283	1.00	0.00	C
ATOM	2661	CD1	PHE	281	19.686	58.767	-10.889	1.00	0.00	C

ATOM	2662	CD2	PHE	281	18.177	56.960	-11.169	1.00	0.00	C
ATOM	2663	CE1	PHE	281	20.625	57.905	-10.378	1.00	0.00	C
ATOM	2664	CE2	PHE	281	19.115	56.092	-10.662	1.00	0.00	C
ATOM	2665	CZ	PHE	281	20.342	56.567	-10.263	1.00	0.00	C
ATOM	2666	C	PHE	281	17.120	58.620	-14.114	1.00	0.00	C
ATOM	2667	O	PHE	281	17.715	58.283	-15.130	1.00	0.00	O
ATOM	2668	N	TRP	282	15.914	58.137	-13.802	1.00	0.00	N
ATOM	2669	HN	TRP	282	15.367	58.577	-13.062	1.00	0.00	H
ATOM	2670	CA	TRP	282	15.388	57.008	-14.499	1.00	0.00	C
ATOM	2671	CB	TRP	282	14.102	56.456	-13.861	1.00	0.00	C
ATOM	2672	CG	TRP	282	14.330	55.926	-12.467	1.00	0.00	C
ATOM	2673	CD2	TRP	282	15.305	54.920	-12.164	1.00	0.00	C
ATOM	2674	CD1	TRP	282	13.766	56.290	-11.278	1.00	0.00	C
ATOM	2675	NE1	TRP	282	14.320	55.560	-10.254	1.00	0.00	N
ATOM	2676	HE1	TRP	282	14.069	55.630	-9.268	1.00	0.00	H
ATOM	2677	CE2	TRP	282	15.274	54.716	-10.786	1.00	0.00	C
ATOM	2678	CE3	TRP	282	16.164	54.231	-12.972	1.00	0.00	C
ATOM	2679	CZ2	TRP	282	16.106	53.812	-10.190	1.00	0.00	C
ATOM	2680	CZ3	TRP	282	16.994	53.313	-12.371	1.00	0.00	C
ATOM	2681	CH2	TRP	282	16.965	53.108	-11.007	1.00	0.00	C
ATOM	2682	C	TRP	282	15.088	57.372	-15.910	1.00	0.00	C
ATOM	2683	O	TRP	282	15.319	56.574	-16.815	1.00	0.00	O
ATOM	2684	N	TYR	283	14.552	58.584	-16.140	1.00	0.00	N
ATOM	2685	HN	TYR	283	14.447	59.256	-15.380	1.00	0.00	H
ATOM	2686	CA	TYR	283	14.131	58.917	-17.467	1.00	0.00	C
ATOM	2687	CB	TYR	283	13.499	60.319	-17.522	1.00	0.00	C
ATOM	2688	CG	TYR	283	12.920	60.525	-18.878	1.00	0.00	C
ATOM	2689	CD1	TYR	283	11.680	60.012	-19.182	1.00	0.00	C
ATOM	2690	CD2	TYR	283	13.604	61.233	-19.838	1.00	0.00	C
ATOM	2691	CE1	TYR	283	11.129	60.197	-20.427	1.00	0.00	C
ATOM	2692	CE2	TYR	283	13.058	61.421	-21.087	1.00	0.00	C
ATOM	2693	CZ	TYR	283	11.820	60.904	-21.382	1.00	0.00	C
ATOM	2694	OH	TYR	283	11.260	61.100	-22.663	1.00	0.00	O
ATOM	2695	HH	TYR	283	11.738	61.589	-23.323	1.00	0.00	H
ATOM	2696	C	TYR	283	15.299	58.898	-18.407	1.00	0.00	C
ATOM	2697	O	TYR	283	15.340	58.089	-19.329	1.00	0.00	O
ATOM	2698	N	GLY	284	16.341	59.703	-18.133	1.00	0.00	N
ATOM	2699	HN	GLY	284	16.339	60.252	-17.273	1.00	0.00	H
ATOM	2700	CA	GLY	284	17.454	59.801	-19.031	1.00	0.00	C
ATOM	2701	C	GLY	284	18.055	58.443	-19.120	1.00	0.00	C
ATOM	2702	O	GLY	284	18.633	58.070	-20.139	1.00	0.00	O
ATOM	2703	N	THR	285	17.983	57.699	-18.003	1.00	0.00	N
ATOM	2704	HN	THR	285	17.543	58.097	-17.173	1.00	0.00	H
ATOM	2705	CA	THR	285	18.503	56.367	-17.940	1.00	0.00	C
ATOM	2706	CB	THR	285	18.339	55.740	-16.588	1.00	0.00	C
ATOM	2707	OG1	THR	285	19.251	56.292	-15.651	1.00	0.00	O
ATOM	2708	HG1	THR	285	19.147	55.895	-14.794	1.00	0.00	H
ATOM	2709	CG2	THR	285	18.487	54.222	-16.719	1.00	0.00	C
ATOM	2710	C	THR	285	17.813	55.448	-18.889	1.00	0.00	C
ATOM	2711	O	THR	285	18.461	54.797	-19.703	1.00	0.00	O
ATOM	2712	N	THR	286	16.474	55.392	-18.834	1.00	0.00	N
ATOM	2713	HN	THR	286	15.970	56.040	-18.228	1.00	0.00	H
ATOM	2714	CA	THR	286	15.742	54.441	-19.609	1.00	0.00	C
ATOM	2715	CB	THR	286	14.260	54.529	-19.391	1.00	0.00	C
ATOM	2716	OG1	THR	286	13.776	55.788	-19.834	1.00	0.00	O
ATOM	2717	HG1	THR	286	13.953	55.896	-20.761	1.00	0.00	H
ATOM	2718	CG2	THR	286	13.974	54.354	-17.890	1.00	0.00	C
ATOM	2719	C	THR	286	15.993	54.695	-21.059	1.00	0.00	C
ATOM	2720	O	THR	286	16.316	53.770	-21.802	1.00	0.00	O
ATOM	2721	N	LEU	287	15.901	55.966	-21.494	1.00	0.00	N
ATOM	2722	HN	LEU	287	15.702	56.720	-20.837	1.00	0.00	H
ATOM	2723	CA	LEU	287	16.085	56.253	-22.888	1.00	0.00	C
ATOM	2724	CB	LEU	287	16.047	57.760	-23.205	1.00	0.00	C
ATOM	2725	CG	LEU	287	14.659	58.417	-23.095	1.00	0.00	C
ATOM	2726	CD1	LEU	287	13.742	57.983	-24.244	1.00	0.00	C
ATOM	2727	CD2	LEU	287	14.020	58.162	-21.725	1.00	0.00	C
ATOM	2728	C	LEU	287	17.447	55.776	-23.290	1.00	0.00	C
ATOM	2729	O	LEU	287	17.597	55.034	-24.258	1.00	0.00	O
ATOM	2730	N	VAL	288	18.473	56.153	-22.509	1.00	0.00	N
ATOM	2731	HN	VAL	288	18.270	56.713	-21.681	1.00	0.00	H
ATOM	2732	CA	VAL	288	19.843	55.809	-22.779	1.00	0.00	C
ATOM	2733	CB	VAL	288	20.877	56.537	-21.962	1.00	0.00	C
ATOM	2734	CG1	VAL	288	20.847	58.026	-22.330	1.00	0.00	C
ATOM	2735	CG2	VAL	288	20.657	56.245	-20.472	1.00	0.00	C

ATOM	2736	C	VAL	288	20.060	54.354	-22.553	1.00	0.00	C
ATOM	2737	O	VAL	288	21.198	53.904	-22.604	1.00	0.00	O
ATOM	2738	N	LEU	289	19.059	53.672	-21.982	1.00	0.00	N
ATOM	2739	HN	LEU	289	18.238	54.201	-21.688	1.00	0.00	H
ATOM	2740	CA	LEU	289	19.050	52.258	-21.752	1.00	0.00	C
ATOM	2741	CB	LEU	289	18.210	52.003	-20.493	1.00	0.00	C
ATOM	2742	CG	LEU	289	18.137	50.572	-19.966	1.00	0.00	C
ATOM	2743	CD1	LEU	289	19.532	50.003	-19.658	1.00	0.00	C
ATOM	2744	CD2	LEU	289	17.209	50.547	-18.740	1.00	0.00	C
ATOM	2745	C	LEU	289	18.518	51.477	-22.924	1.00	0.00	C
ATOM	2746	O	LEU	289	18.962	50.364	-23.196	1.00	0.00	O
ATOM	2747	N	SER	290	17.465	52.005	-23.583	1.00	0.00	N
ATOM	2748	HN	SER	290	17.107	52.915	-23.295	1.00	0.00	H
ATOM	2749	CA	SER	290	16.835	51.323	-24.677	1.00	0.00	C
ATOM	2750	CB	SER	290	15.442	51.886	-24.996	1.00	0.00	C
ATOM	2751	OG	SER	290	14.571	51.679	-23.893	1.00	0.00	O
ATOM	2752	HG	SER	290	13.709	52.027	-24.090	1.00	0.00	H
ATOM	2753	C	SER	290	17.660	51.432	-25.920	1.00	0.00	C
ATOM	2754	O	SER	290	17.839	50.444	-26.634	1.00	0.00	O
ATOM	2755	N	GLY	291	18.107	52.663	-26.258	1.00	0.00	N
ATOM	2756	HN	GLY	291	17.920	53.463	-25.654	1.00	0.00	H
ATOM	2757	CA	GLY	291	18.848	52.832	-27.477	1.00	0.00	C
ATOM	2758	C	GLY	291	20.236	52.260	-27.430	1.00	0.00	C
ATOM	2759	O	GLY	291	20.546	51.292	-28.115	1.00	0.00	O
ATOM	2760	N	GLU	292	21.098	52.790	-26.548	1.00	0.00	N
ATOM	2761	HN	GLU	292	20.770	53.495	-25.888	1.00	0.00	H
ATOM	2762	CA	GLU	292	22.475	52.381	-26.519	1.00	0.00	C
ATOM	2763	CB	GLU	292	23.428	53.496	-26.996	1.00	0.00	C
ATOM	2764	CG	GLU	292	23.073	54.895	-26.474	1.00	0.00	C
ATOM	2765	CD	GLU	292	23.416	55.021	-24.998	1.00	0.00	C
ATOM	2766	OE1	GLU	292	24.597	54.776	-24.636	1.00	0.00	O
ATOM	2767	OE2	GLU	292	22.497	55.379	-24.214	1.00	0.00	O
ATOM	2768	C	GLU	292	22.787	52.048	-25.112	1.00	0.00	C
ATOM	2769	O	GLU	292	21.899	52.192	-24.281	1.00	0.00	O
ATOM	2770	N	TYR	293	24.003	51.510	-24.841	1.00	0.00	N
ATOM	2771	HN	TYR	293	24.604	51.243	-25.621	1.00	0.00	H
ATOM	2772	CA	TYR	293	24.480	51.300	-23.497	1.00	0.00	C
ATOM	2773	CB	TYR	293	24.793	52.678	-22.877	1.00	0.00	C
ATOM	2774	CG	TYR	293	25.482	52.624	-21.559	1.00	0.00	C
ATOM	2775	CD1	TYR	293	26.743	52.089	-21.443	1.00	0.00	C
ATOM	2776	CD2	TYR	293	24.893	53.184	-20.449	1.00	0.00	C
ATOM	2777	CE1	TYR	293	27.384	52.068	-20.227	1.00	0.00	C
ATOM	2778	CE2	TYR	293	25.529	53.168	-19.232	1.00	0.00	C
ATOM	2779	CZ	TYR	293	26.779	52.608	-19.118	1.00	0.00	C
ATOM	2780	OH	TYR	293	27.441	52.590	-17.872	1.00	0.00	O
ATOM	2781	HH	TYR	293	27.023	52.963	-17.105	1.00	0.00	H
ATOM	2782	C	TYR	293	23.411	50.589	-22.715	1.00	0.00	C
ATOM	2783	O	TYR	293	23.138	50.932	-21.566	1.00	0.00	O
ATOM	2784	N	SER	294	22.783	49.560	-23.323	1.00	0.00	N
ATOM	2785	HN	SER	294	23.130	49.207	-24.215	1.00	0.00	H
ATOM	2786	CA	SER	294	21.625	48.961	-22.715	1.00	0.00	C
ATOM	2787	CB	SER	294	20.701	48.317	-23.757	1.00	0.00	C
ATOM	2788	OG	SER	294	19.523	47.844	-23.130	1.00	0.00	O
ATOM	2789	HG	SER	294	18.951	47.445	-23.775	1.00	0.00	H
ATOM	2790	C	SER	294	22.019	47.894	-21.735	1.00	0.00	C
ATOM	2791	O	SER	294	21.878	46.698	-21.990	1.00	0.00	O
ATOM	2792	N	ILE	295	22.619	48.337	-20.620	1.00	0.00	N
ATOM	2793	HN	ILE	295	22.791	49.342	-20.583	1.00	0.00	H
ATOM	2794	CA	ILE	295	23.053	47.592	-19.470	1.00	0.00	C
ATOM	2795	CB	ILE	295	24.247	48.272	-18.905	1.00	0.00	C
ATOM	2796	CG1	ILE	295	23.870	49.750	-18.732	1.00	0.00	C
ATOM	2797	CG2	ILE	295	25.455	48.016	-19.823	1.00	0.00	C
ATOM	2798	CD1	ILE	295	24.909	50.577	-18.004	1.00	0.00	C
ATOM	2799	C	ILE	295	22.058	47.327	-18.361	1.00	0.00	C
ATOM	2800	O	ILE	295	22.064	46.251	-17.763	1.00	0.00	O
ATOM	2801	N	GLY	296	21.247	48.339	-17.963	1.00	0.00	N
ATOM	2802	HN	GLY	296	21.202	49.193	-18.519	1.00	0.00	H
ATOM	2803	CA	GLY	296	20.444	48.230	-16.763	1.00	0.00	C
ATOM	2804	C	GLY	296	21.430	48.483	-15.648	1.00	0.00	C
ATOM	2805	O	GLY	296	21.156	48.256	-14.469	1.00	0.00	O
ATOM	2806	N	GLN	297	22.670	48.795	-16.082	1.00	0.00	N
ATOM	2807	HN	GLN	297	22.764	48.811	-17.098	1.00	0.00	H
ATOM	2808	CA	GLN	297	23.878	49.108	-15.378	1.00	0.00	C
ATOM	2809	CB	GLN	297	25.130	48.459	-15.984	1.00	0.00	C

ATOM	2810	CG	GLN	297	26.169	48.255	-14.894	1.00	0.00	C
ATOM	2811	CD	GLN	297	25.399	47.508	-13.812	1.00	0.00	C
ATOM	2812	OE1	GLN	297	25.038	46.344	-13.981	1.00	0.00	O
ATOM	2813	NE2	GLN	297	25.096	48.211	-12.689	1.00	0.00	N
ATOM	2814	1HE2	GLN	297	24.581	47.711	-11.965	1.00	0.00	H
ATOM	2815	2HE2	GLN	297	25.395	49.176	-12.549	1.00	0.00	H
ATOM	2816	C	GLN	297	24.084	50.570	-15.160	1.00	0.00	C
ATOM	2817	O	GLN	297	25.026	50.974	-14.483	1.00	0.00	O
ATOM	2818	N	VAL	298	23.276	51.433	-15.804	1.00	0.00	N
ATOM	2819	HN	VAL	298	22.561	51.073	-16.435	1.00	0.00	H
ATOM	2820	CA	VAL	298	23.403	52.856	-15.618	1.00	0.00	C
ATOM	2821	CB	VAL	298	22.329	53.610	-16.325	1.00	0.00	C
ATOM	2822	CG1	VAL	298	22.555	53.517	-17.844	1.00	0.00	C
ATOM	2823	CG2	VAL	298	21.007	52.977	-15.877	1.00	0.00	C
ATOM	2824	C	VAL	298	23.236	53.097	-14.152	1.00	0.00	C
ATOM	2825	O	VAL	298	23.706	54.097	-13.611	1.00	0.00	O
ATOM	2826	N	LEU	299	22.562	52.155	-13.470	1.00	0.00	N
ATOM	2827	HN	LEU	299	22.220	51.339	-13.977	1.00	0.00	H
ATOM	2828	CA	LEU	299	22.303	52.243	-12.074	1.00	0.00	C
ATOM	2829	CB	LEU	299	21.799	50.899	-11.523	1.00	0.00	C
ATOM	2830	CG	LEU	299	21.544	50.884	-10.007	1.00	0.00	C
ATOM	2831	CD1	LEU	299	20.377	51.805	-9.622	1.00	0.00	C
ATOM	2832	CD2	LEU	299	21.381	49.446	-9.490	1.00	0.00	C
ATOM	2833	C	LEU	299	23.568	52.565	-11.348	1.00	0.00	C
ATOM	2834	O	LEU	299	23.641	53.641	-10.761	1.00	0.00	O
ATOM	2835	N	THR	300	24.627	51.738	-11.483	1.00	0.00	N
ATOM	2836	HN	THR	300	24.583	50.965	-12.148	1.00	0.00	H
ATOM	2837	CA	THR	300	25.816	51.935	-10.700	1.00	0.00	C
ATOM	2838	CB	THR	300	26.886	50.926	-11.025	1.00	0.00	C
ATOM	2839	OG1	THR	300	27.922	50.987	-10.061	1.00	0.00	O
ATOM	2840	HG1	THR	300	27.575	50.831	-9.191	1.00	0.00	H
ATOM	2841	CG2	THR	300	27.448	51.178	-12.434	1.00	0.00	C
ATOM	2842	C	THR	300	26.341	53.323	-10.907	1.00	0.00	C
ATOM	2843	O	THR	300	26.663	54.011	-9.938	1.00	0.00	O
ATOM	2844	N	VAL	301	26.425	53.794	-12.165	1.00	0.00	N
ATOM	2845	HN	VAL	301	26.116	53.232	-12.958	1.00	0.00	H
ATOM	2846	CA	VAL	301	26.963	55.112	-12.356	1.00	0.00	C
ATOM	2847	CB	VAL	301	27.235	55.437	-13.798	1.00	0.00	C
ATOM	2848	CG1	VAL	301	28.381	54.541	-14.289	1.00	0.00	C
ATOM	2849	CG2	VAL	301	25.950	55.282	-14.623	1.00	0.00	C
ATOM	2850	C	VAL	301	26.111	56.191	-11.744	1.00	0.00	C
ATOM	2851	O	VAL	301	26.503	56.763	-10.730	1.00	0.00	O
ATOM	2852	N	PHE	302	24.876	56.411	-12.249	1.00	0.00	N
ATOM	2853	HN	PHE	302	24.508	55.780	-12.960	1.00	0.00	H
ATOM	2854	CA	PHE	302	24.068	57.521	-11.802	1.00	0.00	C
ATOM	2855	CB	PHE	302	22.671	57.513	-12.445	1.00	0.00	C
ATOM	2856	CG	PHE	302	22.759	57.805	-13.905	1.00	0.00	C
ATOM	2857	CD1	PHE	302	23.109	56.821	-14.801	1.00	0.00	C
ATOM	2858	CD2	PHE	302	22.465	59.063	-14.380	1.00	0.00	C
ATOM	2859	CE1	PHE	302	23.179	57.093	-16.148	1.00	0.00	C
ATOM	2860	CE2	PHE	302	22.534	59.341	-15.725	1.00	0.00	C
ATOM	2861	CZ	PHE	302	22.893	58.355	-16.612	1.00	0.00	C
ATOM	2862	C	PHE	302	23.882	57.424	-10.312	1.00	0.00	C
ATOM	2863	O	PHE	302	24.136	58.379	-9.582	1.00	0.00	O
ATOM	2864	N	PHE	303	23.516	56.234	-9.810	1.00	0.00	N
ATOM	2865	HN	PHE	303	23.414	55.443	-10.446	1.00	0.00	H
ATOM	2866	CA	PHE	303	23.263	56.033	-8.412	1.00	0.00	C
ATOM	2867	CB	PHE	303	22.947	54.550	-8.133	1.00	0.00	C
ATOM	2868	CG	PHE	303	22.478	54.358	-6.731	1.00	0.00	C
ATOM	2869	CD1	PHE	303	21.160	54.579	-6.403	1.00	0.00	C
ATOM	2870	CD2	PHE	303	23.349	53.953	-5.747	1.00	0.00	C
ATOM	2871	CE1	PHE	303	20.720	54.399	-5.112	1.00	0.00	C
ATOM	2872	CE2	PHE	303	22.914	53.771	-4.454	1.00	0.00	C
ATOM	2873	CZ	PHE	303	21.597	53.993	-4.135	1.00	0.00	C
ATOM	2874	C	PHE	303	24.490	56.442	-7.640	1.00	0.00	C
ATOM	2875	O	PHE	303	24.385	57.087	-6.598	1.00	0.00	O
ATOM	2876	N	SER	304	25.689	56.071	-8.132	1.00	0.00	N
ATOM	2877	HN	SER	304	25.712	55.549	-9.008	1.00	0.00	H
ATOM	2878	CA	SER	304	26.937	56.374	-7.484	1.00	0.00	C
ATOM	2879	CB	SER	304	28.144	55.713	-8.174	1.00	0.00	C
ATOM	2880	OG	SER	304	29.342	56.048	-7.489	1.00	0.00	O
ATOM	2881	HG	SER	304	30.087	55.640	-7.915	1.00	0.00	H
ATOM	2882	C	SER	304	27.195	57.854	-7.453	1.00	0.00	C
ATOM	2883	O	SER	304	27.668	58.371	-6.443	1.00	0.00	O

ATOM	2884	N	VAL	305	26.893	58.592	-8.541	1.00	0.00	N
ATOM	2885	HN	VAL	305	26.478	58.157	-9.365	1.00	0.00	H
ATOM	2886	CA	VAL	305	27.167	60.004	-8.516	1.00	0.00	C
ATOM	2887	CB	VAL	305	26.796	60.739	-9.778	1.00	0.00	C
ATOM	2888	CG1	VAL	305	25.268	60.852	-9.878	1.00	0.00	C
ATOM	2889	CG2	VAL	305	27.506	62.103	-9.767	1.00	0.00	C
ATOM	2890	C	VAL	305	26.351	60.573	-7.397	1.00	0.00	C
ATOM	2891	O	VAL	305	26.771	61.489	-6.691	1.00	0.00	O
ATOM	2892	N	LEU	306	25.157	59.994	-7.187	1.00	0.00	N
ATOM	2893	HN	LEU	306	24.886	59.201	-7.768	1.00	0.00	H
ATOM	2894	CA	LEU	306	24.252	60.451	-6.176	1.00	0.00	C
ATOM	2895	CB	LEU	306	23.012	59.544	-6.075	1.00	0.00	C
ATOM	2896	CG	LEU	306	21.912	60.077	-5.142	1.00	0.00	C
ATOM	2897	CD1	LEU	306	21.154	61.244	-5.795	1.00	0.00	C
ATOM	2898	CD2	LEU	306	20.995	58.949	-4.648	1.00	0.00	C
ATOM	2899	C	LEU	306	24.963	60.359	-4.860	1.00	0.00	C
ATOM	2900	O	LEU	306	24.913	61.281	-4.047	1.00	0.00	O
ATOM	2901	N	ILE	307	25.704	59.256	-4.648	1.00	0.00	N
ATOM	2902	HN	ILE	307	25.765	58.554	-5.385	1.00	0.00	H
ATOM	2903	CA	ILE	307	26.410	59.036	-3.420	1.00	0.00	C
ATOM	2904	CB	ILE	307	27.266	57.804	-3.449	1.00	0.00	C
ATOM	2905	CG1	ILE	307	26.410	56.548	-3.688	1.00	0.00	C
ATOM	2906	CG2	ILE	307	28.060	57.763	-2.134	1.00	0.00	C
ATOM	2907	CD1	ILE	307	25.360	56.300	-2.605	1.00	0.00	C
ATOM	2908	C	ILE	307	27.312	60.210	-3.245	1.00	0.00	C
ATOM	2909	O	ILE	307	27.538	60.671	-2.127	1.00	0.00	O
ATOM	2910	N	GLY	308	27.854	60.726	-4.363	1.00	0.00	N
ATOM	2911	HN	GLY	308	27.614	60.328	-5.271	1.00	0.00	H
ATOM	2912	CA	GLY	308	28.765	61.829	-4.292	1.00	0.00	C
ATOM	2913	C	GLY	308	28.107	63.015	-3.650	1.00	0.00	C
ATOM	2914	O	GLY	308	28.684	63.639	-2.762	1.00	0.00	O
ATOM	2915	N	ALA	309	26.867	63.351	-4.047	1.00	0.00	N
ATOM	2916	HN	ALA	309	26.356	62.773	-4.714	1.00	0.00	H
ATOM	2917	CA	ALA	309	26.283	64.544	-3.506	1.00	0.00	C
ATOM	2918	CB	ALA	309	24.873	64.816	-4.056	1.00	0.00	C
ATOM	2919	C	ALA	309	26.163	64.407	-2.020	1.00	0.00	C
ATOM	2920	O	ALA	309	26.576	65.288	-1.266	1.00	0.00	O
ATOM	2921	N	PHE	310	25.677	63.249	-1.551	1.00	0.00	N
ATOM	2922	HN	PHE	310	25.477	62.484	-2.196	1.00	0.00	H
ATOM	2923	CA	PHE	310	25.438	63.081	-0.150	1.00	0.00	C
ATOM	2924	CB	PHE	310	24.839	61.707	0.186	1.00	0.00	C
ATOM	2925	CG	PHE	310	23.478	61.701	-0.421	1.00	0.00	C
ATOM	2926	CD1	PHE	310	23.300	61.347	-1.738	1.00	0.00	C
ATOM	2927	CD2	PHE	310	22.381	62.063	0.326	1.00	0.00	C
ATOM	2928	CE1	PHE	310	22.044	61.346	-2.297	1.00	0.00	C
ATOM	2929	CE2	PHE	310	21.123	62.063	-0.229	1.00	0.00	C
ATOM	2930	CZ	PHE	310	20.952	61.703	-1.544	1.00	0.00	C
ATOM	2931	C	PHE	310	26.722	63.254	0.601	1.00	0.00	C
ATOM	2932	O	PHE	310	26.744	63.873	1.664	1.00	0.00	O
ATOM	2933	N	SER	311	27.832	62.724	0.059	1.00	0.00	N
ATOM	2934	HN	SER	311	27.777	62.264	-0.850	1.00	0.00	H
ATOM	2935	CA	SER	311	29.095	62.796	0.742	1.00	0.00	C
ATOM	2936	CB	SER	311	30.243	62.168	-0.058	1.00	0.00	C
ATOM	2937	OG	SER	311	29.907	60.840	-0.420	1.00	0.00	O
ATOM	2938	HG	SER	311	30.618	60.451	-0.916	1.00	0.00	H
ATOM	2939	C	SER	311	29.469	64.228	0.931	1.00	0.00	C
ATOM	2940	O	SER	311	30.087	64.589	1.932	1.00	0.00	O
ATOM	2941	N	VAL	312	29.102	65.089	-0.031	1.00	0.00	N
ATOM	2942	HN	VAL	312	28.578	64.759	-0.841	1.00	0.00	H
ATOM	2943	CA	VAL	312	29.450	66.473	0.086	1.00	0.00	C
ATOM	2944	CB	VAL	312	28.916	67.305	-1.044	1.00	0.00	C
ATOM	2945	CG1	VAL	312	29.241	68.781	-0.759	1.00	0.00	C
ATOM	2946	CG2	VAL	312	29.503	66.781	-2.365	1.00	0.00	C
ATOM	2947	C	VAL	312	28.806	66.967	1.334	1.00	0.00	C
ATOM	2948	O	VAL	312	29.356	67.804	2.051	1.00	0.00	O
ATOM	2949	N	GLY	313	27.595	66.464	1.619	1.00	0.00	N
ATOM	2950	HN	GLY	313	27.167	65.759	1.019	1.00	0.00	H
ATOM	2951	CA	GLY	313	26.922	66.942	2.783	1.00	0.00	C
ATOM	2952	C	GLY	313	27.695	66.601	4.020	1.00	0.00	C
ATOM	2953	O	GLY	313	28.004	67.481	4.815	1.00	0.00	O
ATOM	2954	N	GLN	314	28.107	65.334	4.188	1.00	0.00	N
ATOM	2955	HN	GLN	314	27.973	64.653	3.440	1.00	0.00	H
ATOM	2956	CA	GLN	314	28.736	64.932	5.418	1.00	0.00	C
ATOM	2957	CB	GLN	314	29.076	63.436	5.445	1.00	0.00	C

ATOM	2958	CG	GLN	314	27.860	62.534	5.223	1.00	0.00	C
ATOM	2959	CD	GLN	314	26.838	62.793	6.321	1.00	0.00	C
ATOM	2960	OE1	GLN	314	26.468	63.934	6.594	1.00	0.00	O
ATOM	2961	NE2	GLN	314	26.360	61.697	6.968	1.00	0.00	N
ATOM	2962	1HE2	GLN	314	25.675	61.871	7.704	1.00	0.00	H
ATOM	2963	2HE2	GLN	314	26.667	60.751	6.742	1.00	0.00	H
ATOM	2964	C	GLN	314	29.994	65.712	5.591	1.00	0.00	C
ATOM	2965	O	GLN	314	30.371	66.071	6.708	1.00	0.00	O
ATOM	2966	N	ALA	315	30.677	66.002	4.475	1.00	0.00	N
ATOM	2967	HN	ALA	315	30.319	65.709	3.566	1.00	0.00	H
ATOM	2968	CA	ALA	315	31.907	66.722	4.563	1.00	0.00	C
ATOM	2969	CB	ALA	315	32.511	67.043	3.185	1.00	0.00	C
ATOM	2970	C	ALA	315	31.612	68.027	5.238	1.00	0.00	C
ATOM	2971	O	ALA	315	32.403	68.507	6.049	1.00	0.00	O
ATOM	2972	N	SER	316	30.442	68.622	4.934	1.00	0.00	N
ATOM	2973	HN	SER	316	29.782	68.143	4.322	1.00	0.00	H
ATOM	2974	CA	SER	316	30.105	69.918	5.455	1.00	0.00	C
ATOM	2975	CB	SER	316	28.740	70.435	4.957	1.00	0.00	C
ATOM	2976	OG	SER	316	28.751	70.584	3.546	1.00	0.00	O
ATOM	2977	HG	SER	316	27.910	70.902	3.239	1.00	0.00	H
ATOM	2978	C	SER	316	30.102	69.939	6.962	1.00	0.00	C
ATOM	2979	O	SER	316	30.800	70.779	7.525	1.00	0.00	O
ATOM	2980	N	PRO	317	29.398	69.101	7.688	1.00	0.00	N
ATOM	2981	CA	PRO	317	29.497	69.257	9.111	1.00	0.00	C
ATOM	2982	CD	PRO	317	28.047	68.703	7.328	1.00	0.00	C
ATOM	2983	CB	PRO	317	28.376	68.419	9.713	1.00	0.00	C
ATOM	2984	CG	PRO	317	27.278	68.509	8.644	1.00	0.00	C
ATOM	2985	C	PRO	317	30.852	68.994	9.677	1.00	0.00	C
ATOM	2986	O	PRO	317	31.190	69.593	10.696	1.00	0.00	O
ATOM	2987	N	SER	318	31.648	68.112	9.054	1.00	0.00	N
ATOM	2988	HN	SER	318	31.338	67.639	8.205	1.00	0.00	H
ATOM	2989	CA	SER	318	32.942	67.850	9.608	1.00	0.00	C
ATOM	2990	CB	SER	318	33.707	66.766	8.834	1.00	0.00	C
ATOM	2991	OG	SER	318	33.015	65.530	8.921	1.00	0.00	O
ATOM	2992	HG	SER	318	33.488	64.860	8.442	1.00	0.00	H
ATOM	2993	C	SER	318	33.732	69.117	9.528	1.00	0.00	C
ATOM	2994	O	SER	318	34.445	69.484	10.460	1.00	0.00	O
ATOM	2995	N	ILE	319	33.589	69.838	8.401	1.00	0.00	N
ATOM	2996	HN	ILE	319	32.931	69.517	7.691	1.00	0.00	H
ATOM	2997	CA	ILE	319	34.330	71.043	8.165	1.00	0.00	C
ATOM	2998	CB	ILE	319	34.043	71.630	6.820	1.00	0.00	C
ATOM	2999	CG1	ILE	319	34.478	70.646	5.724	1.00	0.00	C
ATOM	3000	CG2	ILE	319	34.737	73.000	6.742	1.00	0.00	C
ATOM	3001	CD1	ILE	319	33.933	70.985	4.341	1.00	0.00	C
ATOM	3002	C	ILE	319	33.952	72.057	9.189	1.00	0.00	C
ATOM	3003	O	ILE	319	34.814	72.745	9.736	1.00	0.00	O
ATOM	3004	N	GLU	320	32.646	72.156	9.494	1.00	0.00	N
ATOM	3005	HN	GLU	320	31.973	71.526	9.057	1.00	0.00	H
ATOM	3006	CA	GLU	320	32.197	73.141	10.428	1.00	0.00	C
ATOM	3007	CB	GLU	320	30.693	73.036	10.728	1.00	0.00	C
ATOM	3008	CG	GLU	320	30.198	74.082	11.728	1.00	0.00	C
ATOM	3009	CD	GLU	320	28.706	73.860	11.925	1.00	0.00	C
ATOM	3010	OE1	GLU	320	28.153	72.954	11.248	1.00	0.00	O
ATOM	3011	OE2	GLU	320	28.097	74.601	12.742	1.00	0.00	O
ATOM	3012	C	GLU	320	32.919	72.894	11.711	1.00	0.00	C
ATOM	3013	O	GLU	320	33.395	73.825	12.356	1.00	0.00	O
ATOM	3014	N	ALA	321	33.071	71.617	12.088	1.00	0.00	N
ATOM	3015	HN	ALA	321	32.741	70.861	11.488	1.00	0.00	H
ATOM	3016	CA	ALA	321	33.699	71.322	13.339	1.00	0.00	C
ATOM	3017	CB	ALA	321	33.817	69.811	13.597	1.00	0.00	C
ATOM	3018	C	ALA	321	35.084	71.889	13.336	1.00	0.00	C
ATOM	3019	O	ALA	321	35.503	72.513	14.309	1.00	0.00	O
ATOM	3020	N	PHE	322	35.824	71.727	12.224	1.00	0.00	N
ATOM	3021	HN	PHE	322	35.422	71.285	11.398	1.00	0.00	H
ATOM	3022	CA	PHE	322	37.183	72.182	12.212	1.00	0.00	C
ATOM	3023	CB	PHE	322	37.905	71.920	10.880	1.00	0.00	C
ATOM	3024	CG	PHE	322	39.320	72.349	11.069	1.00	0.00	C
ATOM	3025	CD1	PHE	322	39.698	73.656	10.862	1.00	0.00	C
ATOM	3026	CD2	PHE	322	40.271	71.438	11.467	1.00	0.00	C
ATOM	3027	CE1	PHE	322	41.005	74.047	11.040	1.00	0.00	C
ATOM	3028	CE2	PHE	322	41.579	71.822	11.647	1.00	0.00	C
ATOM	3029	CZ	PHE	322	41.949	73.128	11.433	1.00	0.00	C
ATOM	3030	C	PHE	322	37.221	73.657	12.456	1.00	0.00	C
ATOM	3031	O	PHE	322	37.913	74.120	13.358	1.00	0.00	O

ATOM	3032	N	ALA	323	36.428	74.437	11.704	1.00	0.00	N
ATOM	3033	HN	ALA	323	35.766	74.009	11.057	1.00	0.00	H
ATOM	3034	CA	ALA	323	36.503	75.868	11.801	1.00	0.00	C
ATOM	3035	CB	ALA	323	35.516	76.583	10.862	1.00	0.00	C
ATOM	3036	C	ALA	323	36.180	76.298	13.197	1.00	0.00	C
ATOM	3037	O	ALA	323	36.812	77.210	13.728	1.00	0.00	O
ATOM	3038	N	ASN	324	35.183	75.656	13.832	1.00	0.00	N
ATOM	3039	HN	ASN	324	34.715	74.871	13.379	1.00	0.00	H
ATOM	3040	CA	ASN	324	34.775	76.071	15.145	1.00	0.00	C
ATOM	3041	CB	ASN	324	33.573	75.273	15.674	1.00	0.00	C
ATOM	3042	CG	ASN	324	32.347	75.637	14.854	1.00	0.00	C
ATOM	3043	OD1	ASN	324	31.831	74.821	14.092	1.00	0.00	O
ATOM	3044	ND2	ASN	324	31.860	76.896	15.016	1.00	0.00	N
ATOM	3045	1HD2	ASN	324	32.288	77.573	15.648	1.00	0.00	H
ATOM	3046	2HD2	ASN	324	31.037	77.140	14.465	1.00	0.00	H
ATOM	3047	C	ASN	324	35.896	75.882	16.119	1.00	0.00	C
ATOM	3048	O	ASN	324	36.199	76.783	16.899	1.00	0.00	O
ATOM	3049	N	ALA	325	36.560	74.710	16.084	1.00	0.00	N
ATOM	3050	HN	ALA	325	36.311	74.012	15.383	1.00	0.00	H
ATOM	3051	CA	ALA	325	37.612	74.429	17.017	1.00	0.00	C
ATOM	3052	CB	ALA	325	38.240	73.039	16.813	1.00	0.00	C
ATOM	3053	C	ALA	325	38.685	75.437	16.806	1.00	0.00	C
ATOM	3054	O	ALA	325	39.313	75.891	17.761	1.00	0.00	O
ATOM	3055	N	ARG	326	38.936	75.791	15.534	1.00	0.00	N
ATOM	3056	HN	ARG	326	38.390	75.377	14.779	1.00	0.00	H
ATOM	3057	CA	ARG	326	39.959	76.741	15.227	1.00	0.00	C
ATOM	3058	CB	ARG	326	40.083	76.966	13.712	1.00	0.00	C
ATOM	3059	CG	ARG	326	41.024	78.089	13.269	1.00	0.00	C
ATOM	3060	CD	ARG	326	41.327	77.990	11.771	1.00	0.00	C
ATOM	3061	NE	ARG	326	41.852	79.303	11.301	1.00	0.00	N
ATOM	3062	HE	ARG	326	42.686	79.707	11.727	1.00	0.00	H
ATOM	3063	CZ	ARG	326	41.205	79.960	10.293	1.00	0.00	C
ATOM	3064	NH1	ARG	326	40.106	79.400	9.708	1.00	0.00	N
ATOM	3065	1HH1	ARG	326	39.768	78.492	10.028	1.00	0.00	H
ATOM	3066	2HH1	ARG	326	39.623	79.891	8.955	1.00	0.00	H
ATOM	3067	NH2	ARG	326	41.657	81.175	9.865	1.00	0.00	N
ATOM	3068	1HH2	ARG	326	42.478	81.593	10.302	1.00	0.00	H
ATOM	3069	2HH2	ARG	326	41.174	81.666	9.112	1.00	0.00	H
ATOM	3070	C	ARG	326	39.622	78.041	15.871	1.00	0.00	C
ATOM	3071	O	ARG	326	40.401	78.544	16.675	1.00	0.00	O
ATOM	3072	N	GLY	327	38.405	78.563	15.625	1.00	0.00	N
ATOM	3073	HN	GLY	327	37.724	78.029	15.084	1.00	0.00	H
ATOM	3074	CA	GLY	327	38.060	79.864	16.118	1.00	0.00	C
ATOM	3075	C	GLY	327	38.198	79.856	17.603	1.00	0.00	C
ATOM	3076	O	GLY	327	38.743	80.793	18.186	1.00	0.00	O
ATOM	3077	N	ALA	328	37.720	78.787	18.259	1.00	0.00	N
ATOM	3078	HN	ALA	328	37.315	77.999	17.754	1.00	0.00	H
ATOM	3079	CA	ALA	328	37.796	78.786	19.686	1.00	0.00	C
ATOM	3080	CB	ALA	328	37.145	77.539	20.304	1.00	0.00	C
ATOM	3081	C	ALA	328	39.222	78.797	20.141	1.00	0.00	C
ATOM	3082	O	ALA	328	39.656	79.733	20.811	1.00	0.00	O
ATOM	3083	N	ALA	329	40.016	77.790	19.726	1.00	0.00	N
ATOM	3084	HN	ALA	329	39.669	77.092	19.069	1.00	0.00	H
ATOM	3085	CA	ALA	329	41.354	77.719	20.224	1.00	0.00	C
ATOM	3086	CB	ALA	329	42.121	76.483	19.727	1.00	0.00	C
ATOM	3087	C	ALA	329	42.095	78.901	19.764	1.00	0.00	C
ATOM	3088	O	ALA	329	42.423	79.697	20.603	1.00	0.00	O
ATOM	3089	N	TYR	330	42.205	79.185	18.460	1.00	0.00	N
ATOM	3090	HN	TYR	330	41.640	78.667	17.787	1.00	0.00	H
ATOM	3091	CA	TYR	330	43.103	80.205	17.988	1.00	0.00	C
ATOM	3092	CB	TYR	330	42.996	80.348	16.458	1.00	0.00	C
ATOM	3093	CG	TYR	330	43.524	81.684	16.083	1.00	0.00	C
ATOM	3094	CD1	TYR	330	44.869	81.894	15.902	1.00	0.00	C
ATOM	3095	CD2	TYR	330	42.650	82.736	15.926	1.00	0.00	C
ATOM	3096	CE1	TYR	330	45.337	83.141	15.562	1.00	0.00	C
ATOM	3097	CE2	TYR	330	43.114	83.984	15.588	1.00	0.00	C
ATOM	3098	CZ	TYR	330	44.461	84.188	15.404	1.00	0.00	C
ATOM	3099	OH	TYR	330	44.946	85.467	15.056	1.00	0.00	O
ATOM	3100	HH	TYR	330	44.340	86.191	14.947	1.00	0.00	H
ATOM	3101	C	TYR	330	42.873	81.557	18.610	1.00	0.00	C
ATOM	3102	O	TYR	330	43.829	82.176	19.075	1.00	0.00	O
ATOM	3103	N	GLU	331	41.632	82.078	18.634	1.00	0.00	N
ATOM	3104	HN	GLU	331	40.837	81.542	18.286	1.00	0.00	H
ATOM	3105	CA	GLU	331	41.448	83.409	19.161	1.00	0.00	C

ATOM	3106	CB	GLU	331	40.006	83.915	18.981	1.00	0.00	C
ATOM	3107	CG	GLU	331	39.625	84.159	17.520	1.00	0.00	C
ATOM	3108	CD	GLU	331	38.168	84.600	17.479	1.00	0.00	C
ATOM	3109	OE1	GLU	331	37.403	84.201	18.397	1.00	0.00	O
ATOM	3110	OE2	GLU	331	37.801	85.339	16.528	1.00	0.00	O
ATOM	3111	C	GLU	331	41.742	83.439	20.634	1.00	0.00	C
ATOM	3112	O	GLU	331	42.541	84.236	21.121	1.00	0.00	O
ATOM	3113	N	ILE	332	41.106	82.511	21.358	1.00	0.00	N
ATOM	3114	HN	ILE	332	40.524	81.863	20.827	1.00	0.00	H
ATOM	3115	CA	ILE	332	41.127	82.299	22.776	1.00	0.00	C
ATOM	3116	CB	ILE	332	40.088	81.289	23.192	1.00	0.00	C
ATOM	3117	CG1	ILE	332	38.717	81.727	22.648	1.00	0.00	C
ATOM	3118	CG2	ILE	332	40.073	81.166	24.726	1.00	0.00	C
ATOM	3119	CD1	ILE	332	38.254	83.088	23.169	1.00	0.00	C
ATOM	3120	C	ILE	332	42.499	81.833	23.165	1.00	0.00	C
ATOM	3121	O	ILE	332	42.748	81.529	24.325	1.00	0.00	O
ATOM	3122	N	PHE	333	43.280	81.460	22.139	1.00	0.00	N
ATOM	3123	HN	PHE	333	42.831	81.521	21.225	1.00	0.00	H
ATOM	3124	CA	PHE	333	44.641	80.989	22.103	1.00	0.00	C
ATOM	3125	CB	PHE	333	45.033	80.371	20.751	1.00	0.00	C
ATOM	3126	CG	PHE	333	46.314	79.638	20.855	1.00	0.00	C
ATOM	3127	CD1	PHE	333	47.502	80.301	20.682	1.00	0.00	C
ATOM	3128	CD2	PHE	333	46.320	78.285	21.106	1.00	0.00	C
ATOM	3129	CE1	PHE	333	48.686	79.616	20.769	1.00	0.00	C
ATOM	3130	CE2	PHE	333	47.504	77.595	21.197	1.00	0.00	C
ATOM	3131	CZ	PHE	333	48.690	78.265	21.029	1.00	0.00	C
ATOM	3132	C	PHE	333	45.491	82.188	22.241	1.00	0.00	C
ATOM	3133	O	PHE	333	46.536	82.172	22.875	1.00	0.00	O
ATOM	3134	N	LYS	334	45.083	83.277	21.576	1.00	0.00	N
ATOM	3135	HN	LYS	334	44.297	83.228	20.927	1.00	0.00	H
ATOM	3136	CA	LYS	334	45.771	84.507	21.795	1.00	0.00	C
ATOM	3137	CB	LYS	334	45.211	85.686	20.979	1.00	0.00	C
ATOM	3138	CG	LYS	334	45.425	85.561	19.469	1.00	0.00	C
ATOM	3139	CD	LYS	334	44.669	86.616	18.656	1.00	0.00	C
ATOM	3140	CE	LYS	334	43.147	86.517	18.780	1.00	0.00	C
ATOM	3141	NZ	LYS	334	42.503	87.534	17.918	1.00	0.00	N
ATOM	3142	HZ1	LYS	334	41.488	87.468	18.001	1.00	0.00	H
ATOM	3143	HZ2	LYS	334	42.813	87.466	16.949	1.00	0.00	H
ATOM	3144	HZ3	LYS	334	42.843	88.475	18.117	1.00	0.00	H
ATOM	3145	C	LYS	334	45.444	84.770	23.220	1.00	0.00	C
ATOM	3146	O	LYS	334	46.143	85.445	23.968	1.00	0.00	O
ATOM	3147	N	ILE	335	44.269	84.302	23.630	1.00	0.00	N
ATOM	3148	HN	ILE	335	43.589	83.903	22.983	1.00	0.00	H
ATOM	3149	CA	ILE	335	44.023	84.393	25.018	1.00	0.00	C
ATOM	3150	CB	ILE	335	42.614	84.037	25.396	1.00	0.00	C
ATOM	3151	CG1	ILE	335	41.616	84.966	24.685	1.00	0.00	C
ATOM	3152	CG2	ILE	335	42.508	84.082	26.928	1.00	0.00	C
ATOM	3153	CD1	ILE	335	41.809	86.442	25.020	1.00	0.00	C
ATOM	3154	C	ILE	335	44.957	83.430	25.691	1.00	0.00	C
ATOM	3155	O	ILE	335	45.489	83.710	26.764	1.00	0.00	O
ATOM	3156	N	ILE	336	45.143	82.236	25.085	1.00	0.00	N
ATOM	3157	HN	ILE	336	44.739	82.077	24.162	1.00	0.00	H
ATOM	3158	CA	ILE	336	45.898	81.186	25.713	1.00	0.00	C
ATOM	3159	CB	ILE	336	45.738	79.890	24.975	1.00	0.00	C
ATOM	3160	CG1	ILE	336	44.288	79.393	25.089	1.00	0.00	C
ATOM	3161	CG2	ILE	336	46.794	78.897	25.488	1.00	0.00	C
ATOM	3162	CD1	ILE	336	43.942	78.275	24.109	1.00	0.00	C
ATOM	3163	C	ILE	336	47.384	81.434	25.833	1.00	0.00	C
ATOM	3164	O	ILE	336	47.859	81.833	26.894	1.00	0.00	O
ATOM	3165	N	ASP	337	48.141	81.357	24.718	1.00	0.00	N
ATOM	3166	HN	ASP	337	47.694	81.295	23.803	1.00	0.00	H
ATOM	3167	CA	ASP	337	49.569	81.362	24.814	1.00	0.00	C
ATOM	3168	CB	ASP	337	50.323	81.232	23.476	1.00	0.00	C
ATOM	3169	CG	ASP	337	50.459	79.761	23.105	1.00	0.00	C
ATOM	3170	OD1	ASP	337	49.681	78.928	23.641	1.00	0.00	O
ATOM	3171	OD2	ASP	337	51.356	79.450	22.277	1.00	0.00	O
ATOM	3172	C	ASP	337	50.109	82.604	25.479	1.00	0.00	C
ATOM	3173	O	ASP	337	50.732	82.515	26.535	1.00	0.00	O
ATOM	3174	N	ASN	338	49.804	83.807	24.957	1.00	0.00	N
ATOM	3175	HN	ASN	338	49.079	83.891	24.244	1.00	0.00	H
ATOM	3176	CA	ASN	338	50.514	84.976	25.417	1.00	0.00	C
ATOM	3177	CB	ASN	338	50.330	86.219	24.553	1.00	0.00	C
ATOM	3178	CG	ASN	338	48.892	86.196	24.152	1.00	0.00	C
ATOM	3179	OD1	ASN	338	48.539	85.388	23.294	1.00	0.00	O

ATOM	3180	ND2	ASN	338	48.066	87.083	24.771	1.00	0.00	N
ATOM	3181	1HD2	ASN	338	48.359	87.753	25.482	1.00	0.00	H
ATOM	3182	2HD2	ASN	338	47.084	87.067	24.497	1.00	0.00	H
ATOM	3183	C	ASN	338	50.464	85.317	26.906	1.00	0.00	C
ATOM	3184	O	ASN	338	49.512	85.022	27.625	1.00	0.00	O
ATOM	3185	N	LYS	339	51.609	85.916	27.350	1.00	0.00	N
ATOM	3186	HN	LYS	339	52.230	86.121	26.567	1.00	0.00	H
ATOM	3187	CA	LYS	339	52.215	86.353	28.613	1.00	0.00	C
ATOM	3188	CB	LYS	339	53.744	86.277	28.570	1.00	0.00	C
ATOM	3189	CG	LYS	339	54.231	84.834	28.713	1.00	0.00	C
ATOM	3190	CD	LYS	339	53.819	84.214	30.051	1.00	0.00	C
ATOM	3191	CE	LYS	339	54.285	82.770	30.251	1.00	0.00	C
ATOM	3192	NZ	LYS	339	53.302	81.824	29.680	1.00	0.00	N
ATOM	3193	HZ1	LYS	339	53.613	80.862	29.813	1.00	0.00	H
ATOM	3194	HZ2	LYS	339	53.106	82.027	28.700	1.00	0.00	H
ATOM	3195	HZ3	LYS	339	52.366	81.976	30.057	1.00	0.00	H
ATOM	3196	C	LYS	339	51.836	87.668	29.267	1.00	0.00	C
ATOM	3197	O	LYS	339	52.567	88.081	30.167	1.00	0.00	O
ATOM	3198	N	PRO	340	50.852	88.415	28.908	1.00	0.00	N
ATOM	3199	CA	PRO	340	50.737	89.787	29.377	1.00	0.00	C
ATOM	3200	CD	PRO	340	49.582	87.859	28.471	1.00	0.00	C
ATOM	3201	CB	PRO	340	49.338	90.224	28.935	1.00	0.00	C
ATOM	3202	CG	PRO	340	48.536	88.910	28.869	1.00	0.00	C
ATOM	3203	C	PRO	340	51.035	90.344	30.779	1.00	0.00	C
ATOM	3204	O	PRO	340	51.637	91.413	30.831	1.00	0.00	O
ATOM	3205	N	SER	341	50.697	89.697	31.911	1.00	0.00	N
ATOM	3206	HN	SER	341	50.459	88.707	31.842	1.00	0.00	H
ATOM	3207	CA	SER	341	50.649	90.320	33.227	1.00	0.00	C
ATOM	3208	CB	SER	341	50.351	89.277	34.293	1.00	0.00	C
ATOM	3209	OG	SER	341	49.154	88.622	33.918	1.00	0.00	O
ATOM	3210	HG	SER	341	48.968	87.970	34.584	1.00	0.00	H
ATOM	3211	C	SER	341	51.774	91.183	33.767	1.00	0.00	C
ATOM	3212	O	SER	341	52.644	90.702	34.465	1.00	0.00	O
ATOM	3213	N	ILE	342	51.794	92.499	33.500	1.00	0.00	N
ATOM	3214	HN	ILE	342	51.139	92.817	32.785	1.00	0.00	H
ATOM	3215	CA	ILE	342	52.630	93.532	34.099	1.00	0.00	C
ATOM	3216	CB	ILE	342	52.824	94.697	33.178	1.00	0.00	C
ATOM	3217	CG1	ILE	342	53.526	94.240	31.888	1.00	0.00	C
ATOM	3218	CG2	ILE	342	53.601	95.781	33.942	1.00	0.00	C
ATOM	3219	CD1	ILE	342	54.921	93.662	32.127	1.00	0.00	C
ATOM	3220	C	ILE	342	52.008	94.049	35.363	1.00	0.00	C
ATOM	3221	O	ILE	342	52.651	94.625	36.244	1.00	0.00	O
ATOM	3222	N	ASP	343	50.677	93.922	35.407	1.00	0.00	N
ATOM	3223	HN	ASP	343	50.244	93.349	34.682	1.00	0.00	H
ATOM	3224	CA	ASP	343	49.802	94.513	36.374	1.00	0.00	C
ATOM	3225	CB	ASP	343	48.313	94.250	36.070	1.00	0.00	C
ATOM	3226	CG	ASP	343	48.007	92.756	36.131	1.00	0.00	C
ATOM	3227	OD1	ASP	343	48.940	91.950	36.390	1.00	0.00	O
ATOM	3228	OD2	ASP	343	46.817	92.402	35.919	1.00	0.00	O
ATOM	3229	C	ASP	343	50.092	94.033	37.752	1.00	0.00	C
ATOM	3230	O	ASP	343	49.470	94.498	38.702	1.00	0.00	O
ATOM	3231	N	SER	344	50.950	93.015	37.906	1.00	0.00	N
ATOM	3232	HN	SER	344	51.411	92.589	37.102	1.00	0.00	H
ATOM	3233	CA	SER	344	51.199	92.546	39.232	1.00	0.00	C
ATOM	3234	CB	SER	344	50.073	91.633	39.751	1.00	0.00	C
ATOM	3235	OG	SER	344	49.878	90.533	38.875	1.00	0.00	O
ATOM	3236	HG	SER	344	49.183	89.970	39.195	1.00	0.00	H
ATOM	3237	C	SER	344	52.480	91.794	39.243	1.00	0.00	C
ATOM	3238	O	SER	344	53.426	92.223	39.904	1.00	0.00	O
ATOM	3239	N	TYR	345	52.515	90.626	38.558	1.00	0.00	N
ATOM	3240	HN	TYR	345	51.670	90.259	38.120	1.00	0.00	H
ATOM	3241	CA	TYR	345	53.747	89.916	38.456	1.00	0.00	C
ATOM	3242	CB	TYR	345	54.904	90.849	38.050	1.00	0.00	C
ATOM	3243	CG	TYR	345	56.042	90.042	37.538	1.00	0.00	C
ATOM	3244	CD1	TYR	345	55.799	88.924	36.775	1.00	0.00	C
ATOM	3245	CD2	TYR	345	57.341	90.382	37.834	1.00	0.00	C
ATOM	3246	CE1	TYR	345	56.840	88.168	36.294	1.00	0.00	C
ATOM	3247	CE2	TYR	345	58.383	89.629	37.348	1.00	0.00	C
ATOM	3248	CZ	TYR	345	58.135	88.522	36.577	1.00	0.00	C
ATOM	3249	OH	TYR	345	59.204	87.747	36.081	1.00	0.00	O
ATOM	3250	HH	TYR	345	60.101	87.992	36.277	1.00	0.00	H
ATOM	3251	C	TYR	345	53.961	89.240	39.767	1.00	0.00	C
ATOM	3252	O	TYR	345	53.157	89.401	40.681	1.00	0.00	O
ATOM	3253	N	SER	346	54.906	88.287	39.828	1.00	0.00	N

ATOM	3254	HN	SER	346	55.363	87.951	38.980	1.00	0.00	H
ATOM	3255	CA	SER	346	55.255	87.757	41.099	1.00	0.00	C
ATOM	3256	CB	SER	346	54.573	86.414	41.411	1.00	0.00	C
ATOM	3257	OG	SER	346	54.848	85.471	40.388	1.00	0.00	O
ATOM	3258	HG	SER	346	54.427	84.642	40.581	1.00	0.00	H
ATOM	3259	C	SER	346	56.733	87.568	41.057	1.00	0.00	C
ATOM	3260	O	SER	346	57.196	86.456	40.805	1.00	0.00	O
ATOM	3261	N	LYS	347	57.489	88.662	41.327	1.00	0.00	N
ATOM	3262	HN	LYS	347	57.008	89.526	41.576	1.00	0.00	H
ATOM	3263	CA	LYS	347	58.928	88.677	41.283	1.00	0.00	C
ATOM	3264	CB	LYS	347	59.542	89.272	40.016	1.00	0.00	C
ATOM	3265	CG	LYS	347	59.371	90.789	39.940	1.00	0.00	C
ATOM	3266	CD	LYS	347	60.359	91.467	38.992	1.00	0.00	C
ATOM	3267	CE	LYS	347	60.250	92.991	39.002	1.00	0.00	C
ATOM	3268	NZ	LYS	347	60.893	93.536	40.217	1.00	0.00	N
ATOM	3269	HZ1	LYS	347	60.820	94.553	40.224	1.00	0.00	H
ATOM	3270	HZ2	LYS	347	61.858	93.221	40.313	1.00	0.00	H
ATOM	3271	HZ3	LYS	347	60.516	93.120	41.069	1.00	0.00	H
ATOM	3272	C	LYS	347	59.435	89.586	42.412	1.00	0.00	C
ATOM	3273	O	LYS	347	58.691	89.882	43.340	1.00	0.00	O
ATOM	3274	N	SER	348	60.705	90.097	42.333	1.00	0.00	N
ATOM	3275	HN	SER	348	61.206	89.924	41.462	1.00	0.00	H
ATOM	3276	CA	SER	348	61.428	90.863	43.354	1.00	0.00	C
ATOM	3277	CB	SER	348	62.862	91.237	42.930	1.00	0.00	C
ATOM	3278	OG	SER	348	62.840	92.080	41.787	1.00	0.00	O
ATOM	3279	HG	SER	348	63.724	92.311	41.526	1.00	0.00	H
ATOM	3280	C	SER	348	60.722	92.142	43.783	1.00	0.00	C
ATOM	3281	O	SER	348	59.567	92.371	43.449	1.00	0.00	O
ATOM	3282	N	GLY	349	61.357	93.004	44.625	1.00	0.00	N
ATOM	3283	HN	GLY	349	62.295	92.816	44.980	1.00	0.00	H
ATOM	3284	CA	GLY	349	60.628	94.204	44.990	1.00	0.00	C
ATOM	3285	C	GLY	349	61.171	94.902	46.227	1.00	0.00	C
ATOM	3286	O	GLY	349	62.372	94.876	46.500	1.00	0.00	O
ATOM	3287	N	HIS	350	60.254	95.576	46.985	1.00	0.00	N
ATOM	3288	HN	HIS	350	59.276	95.487	46.711	1.00	0.00	H
ATOM	3289	CA	HIS	350	60.537	96.410	48.147	1.00	0.00	C
ATOM	3290	ND1	HIS	350	60.136	100.208	48.819	1.00	0.00	N
ATOM	3291	HD1	HIS	350	59.563	100.637	48.093	1.00	0.00	H
ATOM	3292	CG	HIS	350	60.432	98.868	48.946	1.00	0.00	C
ATOM	3293	CB	HIS	350	59.941	97.825	47.982	1.00	0.00	C
ATOM	3294	NE2	HIS	350	61.422	100.015	50.620	1.00	0.00	N
ATOM	3295	HE2	HIS	350	61.968	100.241	51.452	1.00	0.00	H
ATOM	3296	CD2	HIS	350	61.219	98.768	50.053	1.00	0.00	C
ATOM	3297	CE1	HIS	350	60.752	100.847	49.844	1.00	0.00	C
ATOM	3298	C	HIS	350	59.922	95.787	49.382	1.00	0.00	C
ATOM	3299	O	HIS	350	58.961	95.031	49.268	1.00	0.00	O
ATOM	3300	N	LYS	351	60.453	96.062	50.608	1.00	0.00	N
ATOM	3301	HN	LYS	351	61.242	96.700	50.709	1.00	0.00	H
ATOM	3302	CA	LYS	351	59.857	95.416	51.764	1.00	0.00	C
ATOM	3303	CB	LYS	351	60.605	94.133	52.140	1.00	0.00	C
ATOM	3304	CG	LYS	351	60.537	93.111	51.005	1.00	0.00	C
ATOM	3305	CD	LYS	351	61.534	91.970	51.152	1.00	0.00	C
ATOM	3306	CE	LYS	351	61.168	91.007	52.281	1.00	0.00	C
ATOM	3307	NZ	LYS	351	62.179	89.932	52.372	1.00	0.00	N
ATOM	3308	HZ1	LYS	351	61.935	89.289	53.125	1.00	0.00	H
ATOM	3309	HZ2	LYS	351	63.124	90.302	52.476	1.00	0.00	H
ATOM	3310	HZ3	LYS	351	62.306	89.449	51.483	1.00	0.00	H
ATOM	3311	C	LYS	351	59.745	96.293	53.002	1.00	0.00	C
ATOM	3312	O	LYS	351	60.748	96.678	53.607	1.00	0.00	O
ATOM	3313	N	PRO	352	58.522	96.640	53.383	1.00	0.00	N
ATOM	3314	CA	PRO	352	58.228	97.392	54.590	1.00	0.00	C
ATOM	3315	CD	PRO	352	57.398	96.609	52.468	1.00	0.00	C
ATOM	3316	CB	PRO	352	56.841	97.997	54.378	1.00	0.00	C
ATOM	3317	CG	PRO	352	56.202	97.090	53.309	1.00	0.00	C
ATOM	3318	C	PRO	352	58.272	96.477	55.765	1.00	0.00	C
ATOM	3319	O	PRO	352	57.234	95.933	56.142	1.00	0.00	O
ATOM	3320	N	ASP	353	59.438	96.376	56.403	1.00	0.00	N
ATOM	3321	HN	ASP	353	60.203	96.982	56.105	1.00	0.00	H
ATOM	3322	CA	ASP	353	59.679	95.469	57.480	1.00	0.00	C
ATOM	3323	CB	ASP	353	61.179	95.196	57.657	1.00	0.00	C
ATOM	3324	CG	ASP	353	61.616	94.502	56.369	1.00	0.00	C
ATOM	3325	OD1	ASP	353	60.731	94.280	55.499	1.00	0.00	O
ATOM	3326	OD2	ASP	353	62.830	94.194	56.231	1.00	0.00	O
ATOM	3327	C	ASP	353	59.090	95.973	58.749	1.00	0.00	C

ATOM	3328	O	ASP	353	58.894	95.203	59.683	1.00	0.00	O
ATOM	3329	N	ASN	354	58.777	97.276	58.804	1.00	0.00	N
ATOM	3330	HN	ASN	354	58.844	97.818	57.943	1.00	0.00	H
ATOM	3331	CA	ASN	354	58.355	97.957	59.993	1.00	0.00	C
ATOM	3332	CB	ASN	354	57.941	99.406	59.687	1.00	0.00	C
ATOM	3333	CG	ASN	354	56.887	99.364	58.588	1.00	0.00	C
ATOM	3334	OD1	ASN	354	55.768	98.896	58.794	1.00	0.00	O
ATOM	3335	ND2	ASN	354	57.257	99.864	57.379	1.00	0.00	N
ATOM	3336	1HD2	ASN	354	56.551	99.836	56.643	1.00	0.00	H
ATOM	3337	2HD2	ASN	354	58.185	100.252	57.208	1.00	0.00	H
ATOM	3338	C	ASN	354	57.206	97.249	60.636	1.00	0.00	C
ATOM	3339	O	ASN	354	57.033	97.336	61.851	1.00	0.00	O
ATOM	3340	N	ILE	355	56.343	96.569	59.860	1.00	0.00	N
ATOM	3341	HN	ILE	355	56.482	96.525	58.850	1.00	0.00	H
ATOM	3342	CA	ILE	355	55.220	95.903	60.471	1.00	0.00	C
ATOM	3343	CB	ILE	355	55.471	95.086	61.732	1.00	0.00	C
ATOM	3344	CG1	ILE	355	56.682	94.141	61.676	1.00	0.00	C
ATOM	3345	CG2	ILE	355	54.178	94.311	62.036	1.00	0.00	C
ATOM	3346	CD1	ILE	355	57.965	94.781	62.201	1.00	0.00	C
ATOM	3347	C	ILE	355	54.274	96.985	60.935	1.00	0.00	C
ATOM	3348	O	ILE	355	54.672	98.134	61.067	1.00	0.00	O
ATOM	3349	N	LYS	356	52.971	96.673	61.095	1.00	0.00	N
ATOM	3350	HN	LYS	356	52.662	95.760	60.761	1.00	0.00	H
ATOM	3351	CA	LYS	356	51.976	97.532	61.703	1.00	0.00	C
ATOM	3352	CB	LYS	356	52.250	97.795	63.201	1.00	0.00	C
ATOM	3353	CG	LYS	356	51.053	98.327	64.000	1.00	0.00	C
ATOM	3354	CD	LYS	356	50.599	99.741	63.628	1.00	0.00	C
ATOM	3355	CE	LYS	356	51.239	100.836	64.486	1.00	0.00	C
ATOM	3356	NZ	LYS	356	50.697	102.161	64.108	1.00	0.00	N
ATOM	3357	HZ1	LYS	356	51.123	102.890	64.680	1.00	0.00	H
ATOM	3358	HZ2	LYS	356	49.678	102.185	64.157	1.00	0.00	H
ATOM	3359	HZ3	LYS	356	50.804	102.347	63.111	1.00	0.00	H
ATOM	3360	C	LYS	356	51.772	98.843	60.991	1.00	0.00	C
ATOM	3361	O	LYS	356	52.693	99.538	60.562	1.00	0.00	O
ATOM	3362	N	GLY	357	50.498	99.242	60.849	1.00	0.00	N
ATOM	3363	HN	GLY	357	49.724	98.669	61.185	1.00	0.00	H
ATOM	3364	CA	GLY	357	50.265	100.500	60.209	1.00	0.00	C
ATOM	3365	C	GLY	357	48.799	100.665	59.985	1.00	0.00	C
ATOM	3366	O	GLY	357	48.000	99.769	60.249	1.00	0.00	O
ATOM	3367	N	ASN	358	48.416	101.842	59.461	1.00	0.00	N
ATOM	3368	HN	ASN	358	49.126	102.530	59.212	1.00	0.00	H
ATOM	3369	CA	ASN	358	47.034	102.153	59.244	1.00	0.00	C
ATOM	3370	CB	ASN	358	46.655	103.566	59.722	1.00	0.00	C
ATOM	3371	CG	ASN	358	46.938	103.671	61.212	1.00	0.00	C
ATOM	3372	OD1	ASN	358	48.082	103.549	61.648	1.00	0.00	O
ATOM	3373	ND2	ASN	358	45.871	103.912	62.018	1.00	0.00	N
ATOM	3374	1HD2	ASN	358	44.923	104.013	61.657	1.00	0.00	H
ATOM	3375	2HD2	ASN	358	46.061	103.982	63.018	1.00	0.00	H
ATOM	3376	C	ASN	358	46.808	102.153	57.774	1.00	0.00	C
ATOM	3377	O	ASN	358	47.671	102.549	56.993	1.00	0.00	O
ATOM	3378	N	LEU	359	45.624	101.675	57.363	1.00	0.00	N
ATOM	3379	HN	LEU	359	44.966	101.301	58.047	1.00	0.00	H
ATOM	3380	CA	LEU	359	45.273	101.684	55.977	1.00	0.00	C
ATOM	3381	CB	LEU	359	44.038	100.814	55.676	1.00	0.00	C
ATOM	3382	CG	LEU	359	44.226	99.314	55.971	1.00	0.00	C
ATOM	3383	CD1	LEU	359	44.537	99.065	57.456	1.00	0.00	C
ATOM	3384	CD2	LEU	359	43.015	98.500	55.488	1.00	0.00	C
ATOM	3385	C	LEU	359	44.901	103.092	55.659	1.00	0.00	C
ATOM	3386	O	LEU	359	44.375	103.812	56.506	1.00	0.00	O
ATOM	3387	N	GLU	360	45.198	103.545	54.431	1.00	0.00	N
ATOM	3388	HN	GLU	360	45.690	102.963	53.754	1.00	0.00	H
ATOM	3389	CA	GLU	360	44.795	104.877	54.114	1.00	0.00	C
ATOM	3390	CB	GLU	360	45.902	105.901	54.396	1.00	0.00	C
ATOM	3391	CG	GLU	360	46.055	106.114	55.904	1.00	0.00	C
ATOM	3392	CD	GLU	360	47.464	106.585	56.197	1.00	0.00	C
ATOM	3393	OE1	GLU	360	48.379	105.723	56.130	1.00	0.00	O
ATOM	3394	OE2	GLU	360	47.649	107.795	56.496	1.00	0.00	O
ATOM	3395	C	GLU	360	44.392	104.921	52.684	1.00	0.00	C
ATOM	3396	O	GLU	360	45.230	104.916	51.785	1.00	0.00	O
ATOM	3397	N	PHE	361	43.069	104.970	52.443	1.00	0.00	N
ATOM	3398	HN	PHE	361	42.409	104.929	53.219	1.00	0.00	H
ATOM	3399	CA	PHE	361	42.587	105.080	51.102	1.00	0.00	C
ATOM	3400	CB	PHE	361	41.196	104.450	50.903	1.00	0.00	C
ATOM	3401	CG	PHE	361	41.346	102.969	50.808	1.00	0.00	C

ATOM	3402	CD1	PHE	361	41.632	102.209	51.917	1.00	0.00	C
ATOM	3403	CD2	PHE	361	41.225	102.344	49.588	1.00	0.00	C
ATOM	3404	CE1	PHE	361	41.772	100.844	51.812	1.00	0.00	C
ATOM	3405	CE2	PHE	361	41.362	100.981	49.476	1.00	0.00	C
ATOM	3406	CZ	PHE	361	41.636	100.227	50.592	1.00	0.00	C
ATOM	3407	C	PHE	361	42.453	106.544	50.870	1.00	0.00	C
ATOM	3408	O	PHE	361	41.547	107.180	51.406	1.00	0.00	O
ATOM	3409	N	ARG	362	43.357	107.136	50.066	1.00	0.00	N
ATOM	3410	HN	ARG	362	44.086	106.608	49.586	1.00	0.00	H
ATOM	3411	CA	ARG	362	43.228	108.551	49.929	1.00	0.00	C
ATOM	3412	CB	ARG	362	44.452	109.351	50.410	1.00	0.00	C
ATOM	3413	CG	ARG	362	44.588	109.367	51.935	1.00	0.00	C
ATOM	3414	CD	ARG	362	45.597	110.388	52.464	1.00	0.00	C
ATOM	3415	NE	ARG	362	45.432	110.448	53.944	1.00	0.00	N
ATOM	3416	HE	ARG	362	45.050	109.647	54.447	1.00	0.00	H
ATOM	3417	CZ	ARG	362	45.791	111.574	54.627	1.00	0.00	C
ATOM	3418	NH1	ARG	362	46.303	112.648	53.957	1.00	0.00	N
ATOM	3419	1HH1	ARG	362	46.571	113.489	54.467	1.00	0.00	H
ATOM	3420	2HH1	ARG	362	46.420	112.608	52.945	1.00	0.00	H
ATOM	3421	NH2	ARG	362	45.634	111.627	55.982	1.00	0.00	N
ATOM	3422	1HH2	ARG	362	45.902	112.468	56.492	1.00	0.00	H
ATOM	3423	2HH2	ARG	362	45.252	110.825	56.482	1.00	0.00	H
ATOM	3424	C	ARG	362	42.958	108.931	48.514	1.00	0.00	C
ATOM	3425	O	ARG	362	43.765	108.679	47.619	1.00	0.00	O
ATOM	3426	N	ASN	363	41.779	109.558	48.315	1.00	0.00	N
ATOM	3427	HN	ASN	363	41.152	109.633	49.116	1.00	0.00	H
ATOM	3428	CA	ASN	363	41.330	110.128	47.077	1.00	0.00	C
ATOM	3429	CB	ASN	363	41.970	111.498	46.790	1.00	0.00	C
ATOM	3430	CG	ASN	363	41.227	112.154	45.636	1.00	0.00	C
ATOM	3431	OD1	ASN	363	40.203	111.653	45.175	1.00	0.00	O
ATOM	3432	ND2	ASN	363	41.760	113.307	45.151	1.00	0.00	N
ATOM	3433	1HD2	ASN	363	42.609	113.723	45.533	1.00	0.00	H
ATOM	3434	2HD2	ASN	363	41.262	113.747	44.377	1.00	0.00	H
ATOM	3435	C	ASN	363	41.665	109.215	45.946	1.00	0.00	C
ATOM	3436	O	ASN	363	42.473	109.574	45.091	1.00	0.00	O
ATOM	3437	N	VAL	364	41.071	108.005	45.908	1.00	0.00	N
ATOM	3438	HN	VAL	364	40.387	107.732	46.614	1.00	0.00	H
ATOM	3439	CA	VAL	364	41.432	107.115	44.844	1.00	0.00	C
ATOM	3440	CB	VAL	364	41.865	105.756	45.317	1.00	0.00	C
ATOM	3441	CG1	VAL	364	40.688	105.076	46.037	1.00	0.00	C
ATOM	3442	CG2	VAL	364	42.399	104.971	44.108	1.00	0.00	C
ATOM	3443	C	VAL	364	40.294	106.926	43.901	1.00	0.00	C
ATOM	3444	O	VAL	364	39.184	106.551	44.280	1.00	0.00	O
ATOM	3445	N	HIS	365	40.580	107.182	42.614	1.00	0.00	N
ATOM	3446	HN	HIS	365	41.513	107.521	42.378	1.00	0.00	H
ATOM	3447	CA	HIS	365	39.633	106.999	41.565	1.00	0.00	C
ATOM	3448	ND1	HIS	365	40.542	110.058	41.927	1.00	0.00	N
ATOM	3449	HD1	HIS	365	41.428	109.633	42.201	1.00	0.00	H
ATOM	3450	CG	HIS	365	39.571	109.492	41.130	1.00	0.00	C
ATOM	3451	CB	HIS	365	39.692	108.126	40.519	1.00	0.00	C
ATOM	3452	NE2	HIS	365	38.904	111.552	41.765	1.00	0.00	N
ATOM	3453	HE2	HIS	365	38.350	112.401	41.876	1.00	0.00	H
ATOM	3454	CD2	HIS	365	38.577	110.418	41.043	1.00	0.00	C
ATOM	3455	CE1	HIS	365	40.092	111.290	42.278	1.00	0.00	C
ATOM	3456	C	HIS	365	40.120	105.757	40.899	1.00	0.00	C
ATOM	3457	O	HIS	365	41.324	105.513	40.847	1.00	0.00	O
ATOM	3458	N	PHE	366	39.201	104.903	40.425	1.00	0.00	N
ATOM	3459	HN	PHE	366	38.207	105.115	40.515	1.00	0.00	H
ATOM	3460	CA	PHE	366	39.625	103.698	39.795	1.00	0.00	C
ATOM	3461	CB	PHE	366	39.964	102.596	40.817	1.00	0.00	C
ATOM	3462	CG	PHE	366	39.997	101.286	40.111	1.00	0.00	C
ATOM	3463	CD1	PHE	366	41.083	100.902	39.360	1.00	0.00	C
ATOM	3464	CD2	PHE	366	38.920	100.433	40.219	1.00	0.00	C
ATOM	3465	CE1	PHE	366	41.085	99.683	38.723	1.00	0.00	C
ATOM	3466	CE2	PHE	366	38.916	99.214	39.586	1.00	0.00	C
ATOM	3467	CZ	PHE	366	40.002	98.841	38.832	1.00	0.00	C
ATOM	3468	C	PHE	366	38.518	103.200	38.953	1.00	0.00	C
ATOM	3469	O	PHE	366	37.352	103.213	39.341	1.00	0.00	O
ATOM	3470	N	SER	367	38.879	102.735	37.755	1.00	0.00	N
ATOM	3471	HN	SER	367	39.853	102.787	37.456	1.00	0.00	H
ATOM	3472	CA	SER	367	37.900	102.168	36.901	1.00	0.00	C
ATOM	3473	CB	SER	367	37.712	102.903	35.566	1.00	0.00	C
ATOM	3474	OG	SER	367	36.713	102.246	34.801	1.00	0.00	O
ATOM	3475	HG	SER	367	36.597	102.701	33.975	1.00	0.00	H

ATOM	3476	C	SER	367	38.424	100.824	36.584	1.00	0.00	C
ATOM	3477	O	SER	367	39.632	100.590	36.539	1.00	0.00	O
ATOM	3478	N	TYR	368	37.495	99.892	36.380	1.00	0.00	N
ATOM	3479	HN	TYR	368	36.508	100.130	36.479	1.00	0.00	H
ATOM	3480	CA	TYR	368	37.869	98.568	36.025	1.00	0.00	C
ATOM	3481	CB	TYR	368	36.675	97.660	35.662	1.00	0.00	C
ATOM	3482	CG	TYR	368	36.021	97.216	36.922	1.00	0.00	C
ATOM	3483	CD1	TYR	368	36.643	96.275	37.711	1.00	0.00	C
ATOM	3484	CD2	TYR	368	34.818	97.742	37.329	1.00	0.00	C
ATOM	3485	CE1	TYR	368	36.066	95.844	38.881	1.00	0.00	C
ATOM	3486	CE2	TYR	368	34.237	97.311	38.499	1.00	0.00	C
ATOM	3487	CZ	TYR	368	34.857	96.363	39.274	1.00	0.00	C
ATOM	3488	OH	TYR	368	34.255	95.927	40.473	1.00	0.00	O
ATOM	3489	HH	TYR	368	34.684	95.271	41.009	1.00	0.00	H
ATOM	3490	C	TYR	368	38.815	98.590	34.854	1.00	0.00	C
ATOM	3491	O	TYR	368	38.862	99.547	34.082	1.00	0.00	O
ATOM	3492	N	PRO	369	39.620	97.561	34.733	1.00	0.00	N
ATOM	3493	CA	PRO	369	40.583	97.481	33.670	1.00	0.00	C
ATOM	3494	CD	PRO	369	39.301	96.247	35.270	1.00	0.00	C
ATOM	3495	CB	PRO	369	41.161	96.073	33.742	1.00	0.00	C
ATOM	3496	CG	PRO	369	40.003	95.257	34.336	1.00	0.00	C
ATOM	3497	C	PRO	369	39.959	97.736	32.335	1.00	0.00	C
ATOM	3498	O	PRO	369	40.687	98.153	31.438	1.00	0.00	O
ATOM	3499	N	SER	370	38.662	97.435	32.122	1.00	0.00	N
ATOM	3500	HN	SER	370	38.093	96.959	32.823	1.00	0.00	H
ATOM	3501	CA	SER	370	38.132	97.827	30.846	1.00	0.00	C
ATOM	3502	CB	SER	370	36.686	97.369	30.606	1.00	0.00	C
ATOM	3503	OG	SER	370	36.629	95.951	30.586	1.00	0.00	O
ATOM	3504	HG	SER	370	35.734	95.668	30.438	1.00	0.00	H
ATOM	3505	C	SER	370	38.160	99.314	30.903	1.00	0.00	C
ATOM	3506	O	SER	370	37.456	99.932	31.693	1.00	0.00	O
ATOM	3507	N	ARG	371	38.900	99.949	29.992	1.00	0.00	N
ATOM	3508	HN	ARG	371	39.241	99.452	29.169	1.00	0.00	H
ATOM	3509	CA	ARG	371	39.211	101.338	30.181	1.00	0.00	C
ATOM	3510	CB	ARG	371	40.314	101.881	29.248	1.00	0.00	C
ATOM	3511	CG	ARG	371	40.056	101.890	27.744	1.00	0.00	C
ATOM	3512	CD	ARG	371	41.364	101.801	26.950	1.00	0.00	C
ATOM	3513	NE	ARG	371	42.416	102.534	27.718	1.00	0.00	N
ATOM	3514	HE	ARG	371	42.943	102.035	28.435	1.00	0.00	H
ATOM	3515	CZ	ARG	371	42.692	103.851	27.489	1.00	0.00	C
ATOM	3516	NH1	ARG	371	41.990	104.555	26.556	1.00	0.00	N
ATOM	3517	1HH1	ARG	371	41.246	104.098	26.028	1.00	0.00	H
ATOM	3518	2HH1	ARG	371	42.196	105.539	26.385	1.00	0.00	H
ATOM	3519	NH2	ARG	371	43.688	104.463	28.196	1.00	0.00	N
ATOM	3520	1HH2	ARG	371	44.213	103.936	28.894	1.00	0.00	H
ATOM	3521	2HH2	ARG	371	43.894	105.447	28.025	1.00	0.00	H
ATOM	3522	C	ARG	371	38.027	102.274	30.242	1.00	0.00	C
ATOM	3523	O	ARG	371	38.135	103.348	30.829	1.00	0.00	O
ATOM	3524	N	LYS	372	36.904	101.958	29.582	1.00	0.00	N
ATOM	3525	HN	LYS	372	36.867	101.066	29.088	1.00	0.00	H
ATOM	3526	CA	LYS	372	35.742	102.817	29.535	1.00	0.00	C
ATOM	3527	CB	LYS	372	34.813	102.385	28.403	1.00	0.00	C
ATOM	3528	CG	LYS	372	34.500	100.894	28.497	1.00	0.00	C
ATOM	3529	CD	LYS	372	33.433	100.449	27.514	1.00	0.00	C
ATOM	3530	CE	LYS	372	33.394	101.336	26.271	1.00	0.00	C
ATOM	3531	NZ	LYS	372	34.740	101.426	25.659	1.00	0.00	N
ATOM	3532	HZ1	LYS	372	34.714	102.018	24.829	1.00	0.00	H
ATOM	3533	HZ2	LYS	372	35.128	100.505	25.456	1.00	0.00	H
ATOM	3534	HZ3	LYS	372	35.442	101.741	26.329	1.00	0.00	H
ATOM	3535	C	LYS	372	34.885	102.932	30.779	1.00	0.00	C
ATOM	3536	O	LYS	372	34.467	104.038	31.121	1.00	0.00	O
ATOM	3537	N	GLU	373	34.607	101.820	31.497	1.00	0.00	N
ATOM	3538	HN	GLU	373	35.126	100.963	31.304	1.00	0.00	H
ATOM	3539	CA	GLU	373	33.594	101.811	32.532	1.00	0.00	C
ATOM	3540	CB	GLU	373	33.482	100.499	33.332	1.00	0.00	C
ATOM	3541	CG	GLU	373	32.903	99.336	32.529	1.00	0.00	C
ATOM	3542	CD	GLU	373	34.055	98.655	31.817	1.00	0.00	C
ATOM	3543	OE1	GLU	373	34.749	97.844	32.486	1.00	0.00	O
ATOM	3544	OE2	GLU	373	34.259	98.933	30.606	1.00	0.00	O
ATOM	3545	C	GLU	373	33.776	102.908	33.525	1.00	0.00	C
ATOM	3546	O	GLU	373	34.827	103.538	33.620	1.00	0.00	O
ATOM	3547	N	VAL	374	32.682	103.181	34.269	1.00	0.00	N
ATOM	3548	HN	VAL	374	31.834	102.632	34.126	1.00	0.00	H
ATOM	3549	CA	VAL	374	32.681	104.219	35.251	1.00	0.00	C

ATOM	3550	CB	VAL	374	31.416	104.326	36.048	1.00	0.00	C
ATOM	3551	CG1	VAL	374	30.270	104.667	35.100	1.00	0.00	C
ATOM	3552	CG2	VAL	374	31.202	103.019	36.828	1.00	0.00	C
ATOM	3553	C	VAL	374	33.732	103.901	36.242	1.00	0.00	C
ATOM	3554	O	VAL	374	33.924	102.748	36.625	1.00	0.00	O
ATOM	3555	N	LYS	375	34.462	104.934	36.687	1.00	0.00	N
ATOM	3556	HN	LYS	375	34.317	105.885	36.347	1.00	0.00	H
ATOM	3557	CA	LYS	375	35.450	104.624	37.662	1.00	0.00	C
ATOM	3558	CB	LYS	375	36.376	105.811	37.978	1.00	0.00	C
ATOM	3559	CG	LYS	375	37.208	106.227	36.760	1.00	0.00	C
ATOM	3560	CD	LYS	375	37.911	107.579	36.894	1.00	0.00	C
ATOM	3561	CE	LYS	375	38.657	108.002	35.624	1.00	0.00	C
ATOM	3562	NZ	LYS	375	39.693	106.999	35.281	1.00	0.00	N
ATOM	3563	HZ1	LYS	375	40.190	107.281	34.436	1.00	0.00	H
ATOM	3564	HZ2	LYS	375	39.302	106.060	35.199	1.00	0.00	H
ATOM	3565	HZ3	LYS	375	40.331	106.829	36.059	1.00	0.00	H
ATOM	3566	C	LYS	375	34.678	104.247	38.874	1.00	0.00	C
ATOM	3567	O	LYS	375	34.119	105.098	39.564	1.00	0.00	O
ATOM	3568	N	ILE	376	34.701	102.940	39.184	1.00	0.00	N
ATOM	3569	HN	ILE	376	35.292	102.322	38.628	1.00	0.00	H
ATOM	3570	CA	ILE	376	33.944	102.371	40.247	1.00	0.00	C
ATOM	3571	CB	ILE	376	34.424	100.986	40.476	1.00	0.00	C
ATOM	3572	CG1	ILE	376	34.192	100.164	39.204	1.00	0.00	C
ATOM	3573	CG2	ILE	376	33.832	100.467	41.785	1.00	0.00	C
ATOM	3574	CD1	ILE	376	32.772	100.261	38.661	1.00	0.00	C
ATOM	3575	C	ILE	376	34.320	103.139	41.460	1.00	0.00	C
ATOM	3576	O	ILE	376	33.459	103.641	42.180	1.00	0.00	O
ATOM	3577	N	LEU	377	35.635	103.275	41.699	1.00	0.00	N
ATOM	3578	HN	LEU	377	36.325	102.769	41.143	1.00	0.00	H
ATOM	3579	CA	LEU	377	36.039	104.148	42.753	1.00	0.00	C
ATOM	3580	CB	LEU	377	37.446	103.871	43.316	1.00	0.00	C
ATOM	3581	CG	LEU	377	37.527	102.660	44.268	1.00	0.00	C
ATOM	3582	CD1	LEU	377	36.831	102.962	45.606	1.00	0.00	C
ATOM	3583	CD2	LEU	377	37.001	101.378	43.606	1.00	0.00	C
ATOM	3584	C	LEU	377	36.057	105.494	42.103	1.00	0.00	C
ATOM	3585	O	LEU	377	37.005	105.877	41.428	1.00	0.00	O
ATOM	3586	N	LYS	378	34.963	106.231	42.314	1.00	0.00	N
ATOM	3587	HN	LYS	378	34.277	105.806	42.938	1.00	0.00	H
ATOM	3588	CA	LYS	378	34.595	107.520	41.808	1.00	0.00	C
ATOM	3589	CB	LYS	378	33.097	107.807	41.996	1.00	0.00	C
ATOM	3590	CG	LYS	378	32.581	107.477	43.396	1.00	0.00	C
ATOM	3591	CD	LYS	378	31.157	107.973	43.643	1.00	0.00	C
ATOM	3592	CE	LYS	378	30.511	107.364	44.886	1.00	0.00	C
ATOM	3593	NZ	LYS	378	31.385	107.574	46.060	1.00	0.00	N
ATOM	3594	HZ1	LYS	378	30.954	107.167	46.890	1.00	0.00	H
ATOM	3595	HZ2	LYS	378	31.619	108.558	46.193	1.00	0.00	H
ATOM	3596	HZ3	LYS	378	32.328	107.218	45.904	1.00	0.00	H
ATOM	3597	C	LYS	378	35.400	108.618	42.429	1.00	0.00	C
ATOM	3598	O	LYS	378	35.057	109.790	42.264	1.00	0.00	O
ATOM	3599	N	GLY	379	36.455	108.291	43.202	1.00	0.00	N
ATOM	3600	HN	GLY	379	36.780	107.326	43.264	1.00	0.00	H
ATOM	3601	CA	GLY	379	37.108	109.336	43.934	1.00	0.00	C
ATOM	3602	C	GLY	379	36.680	109.129	45.342	1.00	0.00	C
ATOM	3603	O	GLY	379	35.767	109.777	45.852	1.00	0.00	O
ATOM	3604	N	LEU	380	37.312	108.117	45.968	1.00	0.00	N
ATOM	3605	HN	LEU	380	38.071	107.633	45.489	1.00	0.00	H
ATOM	3606	CA	LEU	380	36.946	107.705	47.286	1.00	0.00	C
ATOM	3607	CB	LEU	380	36.582	106.205	47.317	1.00	0.00	C
ATOM	3608	CG	LEU	380	36.383	105.581	48.709	1.00	0.00	C
ATOM	3609	CD1	LEU	380	37.733	105.265	49.375	1.00	0.00	C
ATOM	3610	CD2	LEU	380	35.477	106.456	49.589	1.00	0.00	C
ATOM	3611	C	LEU	380	38.037	107.979	48.265	1.00	0.00	C
ATOM	3612	O	LEU	380	39.220	107.772	47.995	1.00	0.00	O
ATOM	3613	N	ASN	381	37.624	108.481	49.445	1.00	0.00	N
ATOM	3614	HN	ASN	381	36.629	108.671	49.566	1.00	0.00	H
ATOM	3615	CA	ASN	381	38.502	108.761	50.535	1.00	0.00	C
ATOM	3616	CB	ASN	381	38.461	110.225	51.009	1.00	0.00	C
ATOM	3617	CG	ASN	381	39.209	111.089	50.005	1.00	0.00	C
ATOM	3618	OD1	ASN	381	40.438	111.090	49.963	1.00	0.00	O
ATOM	3619	ND2	ASN	381	38.446	111.845	49.171	1.00	0.00	N
ATOM	3620	1HD2	ASN	381	37.427	111.844	49.206	1.00	0.00	H
ATOM	3621	2HD2	ASN	381	38.948	112.424	48.498	1.00	0.00	H
ATOM	3622	C	ASN	381	38.034	107.933	51.680	1.00	0.00	C
ATOM	3623	O	ASN	381	36.833	107.803	51.930	1.00	0.00	O

ATOM	3624	N	LEU	382	38.993	107.307	52.383	1.00	0.00	N
ATOM	3625	HN	LEU	382	39.974	107.389	52.115	1.00	0.00	H
ATOM	3626	CA	LEU	382	38.610	106.528	53.509	1.00	0.00	C
ATOM	3627	CB	LEU	382	37.912	105.214	53.093	1.00	0.00	C
ATOM	3628	CG	LEU	382	37.368	104.307	54.222	1.00	0.00	C
ATOM	3629	CD1	LEU	382	36.583	103.130	53.622	1.00	0.00	C
ATOM	3630	CD2	LEU	382	38.462	103.803	55.178	1.00	0.00	C
ATOM	3631	C	LEU	382	39.866	106.210	54.235	1.00	0.00	C
ATOM	3632	O	LEU	382	40.910	105.946	53.635	1.00	0.00	O
ATOM	3633	N	LYS	383	39.794	106.257	55.570	1.00	0.00	N
ATOM	3634	HN	LYS	383	38.926	106.525	56.034	1.00	0.00	H
ATOM	3635	CA	LYS	383	40.949	105.926	56.329	1.00	0.00	C
ATOM	3636	CB	LYS	383	41.583	107.169	56.982	1.00	0.00	C
ATOM	3637	CG	LYS	383	42.962	106.973	57.612	1.00	0.00	C
ATOM	3638	CD	LYS	383	42.964	106.109	58.873	1.00	0.00	C
ATOM	3639	CE	LYS	383	44.329	106.028	59.555	1.00	0.00	C
ATOM	3640	NZ	LYS	383	44.598	107.286	60.289	1.00	0.00	N
ATOM	3641	HZ1	LYS	383	45.509	107.232	60.744	1.00	0.00	H
ATOM	3642	HZ2	LYS	383	43.853	107.513	60.948	1.00	0.00	H
ATOM	3643	HZ3	LYS	383	44.518	108.106	59.687	1.00	0.00	H
ATOM	3644	C	LYS	383	40.461	104.995	57.380	1.00	0.00	C
ATOM	3645	O	LYS	383	39.287	105.041	57.753	1.00	0.00	O
ATOM	3646	N	VAL	384	41.332	104.064	57.816	1.00	0.00	N
ATOM	3647	HN	VAL	384	42.256	103.978	57.392	1.00	0.00	H
ATOM	3648	CA	VAL	384	40.939	103.200	58.882	1.00	0.00	C
ATOM	3649	CB	VAL	384	40.532	101.832	58.422	1.00	0.00	C
ATOM	3650	CG1	VAL	384	40.412	100.911	59.642	1.00	0.00	C
ATOM	3651	CG2	VAL	384	39.204	101.973	57.665	1.00	0.00	C
ATOM	3652	C	VAL	384	42.111	103.056	59.798	1.00	0.00	C
ATOM	3653	O	VAL	384	43.208	102.663	59.396	1.00	0.00	O
ATOM	3654	N	GLN	385	41.869	103.340	61.086	1.00	0.00	N
ATOM	3655	HN	GLN	385	40.915	103.581	61.355	1.00	0.00	H
ATOM	3656	CA	GLN	385	42.872	103.324	62.100	1.00	0.00	C
ATOM	3657	CB	GLN	385	42.414	103.919	63.445	1.00	0.00	C
ATOM	3658	CG	GLN	385	42.494	105.449	63.536	1.00	0.00	C
ATOM	3659	CD	GLN	385	41.335	106.130	62.814	1.00	0.00	C
ATOM	3660	OE1	GLN	385	41.268	107.358	62.772	1.00	0.00	O
ATOM	3661	NE2	GLN	385	40.396	105.337	62.236	1.00	0.00	N
ATOM	3662	1HE2	GLN	385	40.452	104.319	62.271	1.00	0.00	H
ATOM	3663	2HE2	GLN	385	39.621	105.792	61.753	1.00	0.00	H
ATOM	3664	C	GLN	385	43.326	101.924	62.335	1.00	0.00	C
ATOM	3665	O	GLN	385	42.711	100.970	61.865	1.00	0.00	O
ATOM	3666	N	SER	386	44.466	101.778	63.043	1.00	0.00	N
ATOM	3667	HN	SER	386	44.958	102.603	63.385	1.00	0.00	H
ATOM	3668	CA	SER	386	44.991	100.474	63.318	1.00	0.00	C
ATOM	3669	CB	SER	386	46.429	100.484	63.862	1.00	0.00	C
ATOM	3670	OG	SER	386	46.456	101.109	65.136	1.00	0.00	O
ATOM	3671	HG	SER	386	47.345	101.115	65.472	1.00	0.00	H
ATOM	3672	C	SER	386	44.126	99.827	64.348	1.00	0.00	C
ATOM	3673	O	SER	386	43.302	100.473	64.992	1.00	0.00	O
ATOM	3674	N	GLY	387	44.221	98.489	64.430	1.00	0.00	N
ATOM	3675	HN	GLY	387	44.777	98.001	63.728	1.00	0.00	H
ATOM	3676	CA	GLY	387	43.582	97.711	65.452	1.00	0.00	C
ATOM	3677	C	GLY	387	42.088	97.740	65.294	1.00	0.00	C
ATOM	3678	O	GLY	387	41.382	96.962	65.933	1.00	0.00	O
ATOM	3679	N	GLN	388	41.563	98.616	64.417	1.00	0.00	N
ATOM	3680	HN	GLN	388	42.185	99.198	63.856	1.00	0.00	H
ATOM	3681	CA	GLN	388	40.143	98.745	64.259	1.00	0.00	C
ATOM	3682	CB	GLN	388	39.668	100.066	63.632	1.00	0.00	C
ATOM	3683	CG	GLN	388	39.829	101.301	64.516	1.00	0.00	C
ATOM	3684	CD	GLN	388	39.029	102.408	63.838	1.00	0.00	C
ATOM	3685	OE1	GLN	388	39.350	103.589	63.951	1.00	0.00	O
ATOM	3686	NE2	GLN	388	37.949	102.015	63.110	1.00	0.00	N
ATOM	3687	1HE2	GLN	388	37.414	102.755	62.656	1.00	0.00	H
ATOM	3688	2HE2	GLN	388	37.683	101.035	63.016	1.00	0.00	H
ATOM	3689	C	GLN	388	39.661	97.676	63.348	1.00	0.00	C
ATOM	3690	O	GLN	388	40.407	96.786	62.939	1.00	0.00	O
ATOM	3691	N	THR	389	38.338	97.706	63.100	1.00	0.00	N
ATOM	3692	HN	THR	389	37.756	98.385	63.590	1.00	0.00	H
ATOM	3693	CA	THR	389	37.729	96.812	62.169	1.00	0.00	C
ATOM	3694	CB	THR	389	37.077	95.631	62.842	1.00	0.00	C
ATOM	3695	OG1	THR	389	35.899	96.014	63.535	1.00	0.00	O
ATOM	3696	HG1	THR	389	35.280	96.354	62.899	1.00	0.00	H
ATOM	3697	CG2	THR	389	38.079	95.080	63.872	1.00	0.00	C

ATOM	3698	C	THR	389	36.650	97.630	61.513	1.00	0.00	C
ATOM	3699	O	THR	389	35.801	98.204	62.195	1.00	0.00	O
ATOM	3700	N	VAL	390	36.642	97.715	60.169	1.00	0.00	N
ATOM	3701	HN	VAL	390	37.329	97.205	59.614	1.00	0.00	H
ATOM	3702	CA	VAL	390	35.648	98.537	59.527	1.00	0.00	C
ATOM	3703	CB	VAL	390	36.238	99.611	58.657	1.00	0.00	C
ATOM	3704	CG1	VAL	390	37.090	98.942	57.565	1.00	0.00	C
ATOM	3705	CG2	VAL	390	35.091	100.474	58.102	1.00	0.00	C
ATOM	3706	C	VAL	390	34.779	97.684	58.654	1.00	0.00	C
ATOM	3707	O	VAL	390	35.242	96.726	58.035	1.00	0.00	O
ATOM	3708	N	ALA	391	33.475	98.026	58.579	1.00	0.00	N
ATOM	3709	HN	ALA	391	33.137	98.852	59.074	1.00	0.00	H
ATOM	3710	CA	ALA	391	32.560	97.232	57.805	1.00	0.00	C
ATOM	3711	CB	ALA	391	31.260	96.888	58.554	1.00	0.00	C
ATOM	3712	C	ALA	391	32.159	97.969	56.564	1.00	0.00	C
ATOM	3713	O	ALA	391	31.793	99.142	56.592	1.00	0.00	O
ATOM	3714	N	LEU	392	32.219	97.280	55.413	1.00	0.00	N
ATOM	3715	HN	LEU	392	32.564	96.320	55.404	1.00	0.00	H
ATOM	3716	CA	LEU	392	31.793	97.909	54.197	1.00	0.00	C
ATOM	3717	CB	LEU	392	32.804	97.778	53.047	1.00	0.00	C
ATOM	3718	CG	LEU	392	34.040	98.672	53.254	1.00	0.00	C
ATOM	3719	CD1	LEU	392	34.710	98.393	54.607	1.00	0.00	C
ATOM	3720	CD2	LEU	392	35.020	98.552	52.078	1.00	0.00	C
ATOM	3721	C	LEU	392	30.512	97.268	53.780	1.00	0.00	C
ATOM	3722	O	LEU	392	30.352	96.050	53.831	1.00	0.00	O
ATOM	3723	N	VAL	393	29.533	98.091	53.375	1.00	0.00	N
ATOM	3724	HN	VAL	393	29.673	99.101	53.345	1.00	0.00	H
ATOM	3725	CA	VAL	393	28.288	97.506	52.987	1.00	0.00	C
ATOM	3726	CB	VAL	393	27.202	97.850	53.967	1.00	0.00	C
ATOM	3727	CG1	VAL	393	27.181	99.372	54.163	1.00	0.00	C
ATOM	3728	CG2	VAL	393	25.874	97.264	53.477	1.00	0.00	C
ATOM	3729	C	VAL	393	27.916	97.954	51.603	1.00	0.00	C
ATOM	3730	O	VAL	393	27.731	99.142	51.363	1.00	0.00	O
ATOM	3731	N	GLY	394	27.767	96.997	50.656	1.00	0.00	N
ATOM	3732	HN	GLY	394	27.907	96.022	50.923	1.00	0.00	H
ATOM	3733	CA	GLY	394	27.419	97.294	49.284	1.00	0.00	C
ATOM	3734	C	GLY	394	26.728	96.076	48.733	1.00	0.00	C
ATOM	3735	O	GLY	394	26.565	95.091	49.454	1.00	0.00	O
ATOM	3736	N	ASN	395	26.235	96.122	47.465	1.00	0.00	N
ATOM	3737	HN	ASN	395	26.252	96.986	46.923	1.00	0.00	H
ATOM	3738	CA	ASN	395	25.688	94.906	46.916	1.00	0.00	C
ATOM	3739	CB	ASN	395	24.398	94.389	47.592	1.00	0.00	C
ATOM	3740	CG	ASN	395	23.235	95.358	47.500	1.00	0.00	C
ATOM	3741	OD1	ASN	395	22.594	95.640	48.510	1.00	0.00	O
ATOM	3742	ND2	ASN	395	22.923	95.852	46.272	1.00	0.00	N
ATOM	3743	1HD2	ASN	395	22.141	96.504	46.210	1.00	0.00	H
ATOM	3744	2HD2	ASN	395	23.455	95.618	45.434	1.00	0.00	H
ATOM	3745	C	ASN	395	25.508	94.942	45.428	1.00	0.00	C
ATOM	3746	O	ASN	395	25.521	93.889	44.797	1.00	0.00	O
ATOM	3747	N	SER	396	25.383	96.129	44.796	1.00	0.00	N
ATOM	3748	HN	SER	396	25.416	96.991	45.341	1.00	0.00	H
ATOM	3749	CA	SER	396	25.204	96.203	43.365	1.00	0.00	C
ATOM	3750	CB	SER	396	24.794	97.600	42.885	1.00	0.00	C
ATOM	3751	OG	SER	396	24.634	97.602	41.476	1.00	0.00	O
ATOM	3752	HG	SER	396	24.380	98.468	41.179	1.00	0.00	H
ATOM	3753	C	SER	396	26.489	95.794	42.718	1.00	0.00	C
ATOM	3754	O	SER	396	26.620	95.810	41.496	1.00	0.00	O
ATOM	3755	N	GLY	397	27.498	95.485	43.548	1.00	0.00	N
ATOM	3756	HN	GLY	397	27.389	95.676	44.544	1.00	0.00	H
ATOM	3757	CA	GLY	397	28.714	94.901	43.092	1.00	0.00	C
ATOM	3758	C	GLY	397	29.602	95.956	42.550	1.00	0.00	C
ATOM	3759	O	GLY	397	29.289	97.138	42.545	1.00	0.00	O
ATOM	3760	N	CYS	398	30.743	95.535	42.007	1.00	0.00	N
ATOM	3761	HN	CYS	398	30.967	94.540	41.988	1.00	0.00	H
ATOM	3762	CA	CYS	398	31.645	96.484	41.455	1.00	0.00	C
ATOM	3763	CB	CYS	398	31.123	97.126	40.157	1.00	0.00	C
ATOM	3764	SG	CYS	398	30.930	95.924	38.810	1.00	0.00	S
ATOM	3765	C	CYS	398	31.993	97.595	42.396	1.00	0.00	C
ATOM	3766	O	CYS	398	31.741	98.760	42.092	1.00	0.00	O
ATOM	3767	N	GLY	399	32.665	97.275	43.524	1.00	0.00	N
ATOM	3768	HN	GLY	399	32.825	96.301	43.782	1.00	0.00	H
ATOM	3769	CA	GLY	399	33.147	98.351	44.349	1.00	0.00	C
ATOM	3770	C	GLY	399	33.637	97.887	45.693	1.00	0.00	C
ATOM	3771	O	GLY	399	34.844	97.911	45.943	1.00	0.00	O

ATOM	3772	N	LYS	400	32.756	97.388	46.571	1.00	0.00	N
ATOM	3773	HN	LYS	400	31.788	97.228	46.292	1.00	0.00	H
ATOM	3774	CA	LYS	400	33.186	97.078	47.913	1.00	0.00	C
ATOM	3775	CB	LYS	400	32.058	96.438	48.735	1.00	0.00	C
ATOM	3776	CG	LYS	400	30.806	97.312	48.833	1.00	0.00	C
ATOM	3777	CD	LYS	400	30.086	97.496	47.494	1.00	0.00	C
ATOM	3778	CE	LYS	400	29.429	96.222	46.957	1.00	0.00	C
ATOM	3779	NZ	LYS	400	30.463	95.236	46.568	1.00	0.00	N
ATOM	3780	HZ1	LYS	400	30.025	94.387	46.210	1.00	0.00	H
ATOM	3781	HZ2	LYS	400	31.107	95.038	47.334	1.00	0.00	H
ATOM	3782	HZ3	LYS	400	31.132	95.628	45.905	1.00	0.00	H
ATOM	3783	C	LYS	400	34.295	96.082	47.859	1.00	0.00	C
ATOM	3784	O	LYS	400	35.422	96.386	48.245	1.00	0.00	O
ATOM	3785	N	SER	401	34.023	94.934	47.220	1.00	0.00	N
ATOM	3786	HN	SER	401	33.113	94.827	46.771	1.00	0.00	H
ATOM	3787	CA	SER	401	34.952	93.861	47.144	1.00	0.00	C
ATOM	3788	CB	SER	401	34.448	92.719	46.248	1.00	0.00	C
ATOM	3789	OG	SER	401	34.265	93.198	44.923	1.00	0.00	O
ATOM	3790	HG	SER	401	33.953	92.492	44.369	1.00	0.00	H
ATOM	3791	C	SER	401	36.199	94.403	46.529	1.00	0.00	C
ATOM	3792	O	SER	401	37.264	93.992	46.975	1.00	0.00	O
ATOM	3793	N	THR	402	36.093	95.337	45.535	1.00	0.00	N
ATOM	3794	HN	THR	402	35.163	95.679	45.293	1.00	0.00	H
ATOM	3795	CA	THR	402	37.229	95.869	44.805	1.00	0.00	C
ATOM	3796	CB	THR	402	36.925	96.605	43.520	1.00	0.00	C
ATOM	3797	OG1	THR	402	36.150	97.769	43.743	1.00	0.00	O
ATOM	3798	HG1	THR	402	36.595	98.356	44.343	1.00	0.00	H
ATOM	3799	CG2	THR	402	36.206	95.657	42.550	1.00	0.00	C
ATOM	3800	C	THR	402	38.148	96.729	45.613	1.00	0.00	C
ATOM	3801	O	THR	402	39.361	96.641	45.445	1.00	0.00	O
ATOM	3802	N	THR	403	37.641	97.622	46.476	1.00	0.00	N
ATOM	3803	HN	THR	403	36.636	97.777	46.562	1.00	0.00	H
ATOM	3804	CA	THR	403	38.590	98.348	47.271	1.00	0.00	C
ATOM	3805	CB	THR	403	37.961	99.383	48.159	1.00	0.00	C
ATOM	3806	OG1	THR	403	36.989	98.778	48.997	1.00	0.00	O
ATOM	3807	HG1	THR	403	37.383	98.101	49.535	1.00	0.00	H
ATOM	3808	CG2	THR	403	37.324	100.479	47.289	1.00	0.00	C
ATOM	3809	C	THR	403	39.259	97.325	48.137	1.00	0.00	C
ATOM	3810	O	THR	403	40.462	97.383	48.384	1.00	0.00	O
ATOM	3811	N	VAL	404	38.478	96.331	48.599	1.00	0.00	N
ATOM	3812	HN	VAL	404	37.485	96.338	48.368	1.00	0.00	H
ATOM	3813	CA	VAL	404	38.994	95.264	49.404	1.00	0.00	C
ATOM	3814	CB	VAL	404	37.945	94.258	49.786	1.00	0.00	C
ATOM	3815	CG1	VAL	404	38.624	93.081	50.508	1.00	0.00	C
ATOM	3816	CG2	VAL	404	36.876	94.966	50.636	1.00	0.00	C
ATOM	3817	C	VAL	404	39.986	94.589	48.545	1.00	0.00	C
ATOM	3818	O	VAL	404	40.882	93.899	49.031	1.00	0.00	O
ATOM	3819	N	GLN	405	39.756	94.699	47.225	1.00	0.00	N
ATOM	3820	HN	GLN	405	38.954	95.237	46.896	1.00	0.00	H
ATOM	3821	CA	GLN	405	40.614	94.076	46.285	1.00	0.00	C
ATOM	3822	CB	GLN	405	40.043	94.045	44.859	1.00	0.00	C
ATOM	3823	CG	GLN	405	38.831	93.130	44.689	1.00	0.00	C
ATOM	3824	CD	GLN	405	39.276	91.668	44.710	1.00	0.00	C
ATOM	3825	OE1	GLN	405	38.642	90.818	44.087	1.00	0.00	O
ATOM	3826	NE2	GLN	405	40.384	91.351	45.434	1.00	0.00	N
ATOM	3827	1HE2	GLN	405	40.681	90.375	45.448	1.00	0.00	H
ATOM	3828	2HE2	GLN	405	40.910	92.056	45.951	1.00	0.00	H
ATOM	3829	C	GLN	405	41.971	94.704	46.169	1.00	0.00	C
ATOM	3830	O	GLN	405	42.965	94.060	46.489	1.00	0.00	O
ATOM	3831	N	LEU	406	42.024	96.005	45.806	1.00	0.00	N
ATOM	3832	HN	LEU	406	41.136	96.502	45.731	1.00	0.00	H
ATOM	3833	CA	LEU	406	43.217	96.753	45.516	1.00	0.00	C
ATOM	3834	CB	LEU	406	42.914	98.160	44.962	1.00	0.00	C
ATOM	3835	CG	LEU	406	42.275	99.153	45.954	1.00	0.00	C
ATOM	3836	CD1	LEU	406	43.300	99.715	46.953	1.00	0.00	C
ATOM	3837	CD2	LEU	406	41.502	100.250	45.210	1.00	0.00	C
ATOM	3838	C	LEU	406	44.005	96.859	46.766	1.00	0.00	C
ATOM	3839	O	LEU	406	45.180	97.214	46.758	1.00	0.00	O
ATOM	3840	N	MET	407	43.348	96.589	47.897	1.00	0.00	N
ATOM	3841	HN	MET	407	42.355	96.362	47.853	1.00	0.00	H
ATOM	3842	CA	MET	407	44.002	96.610	49.167	1.00	0.00	C
ATOM	3843	CB	MET	407	43.052	96.312	50.340	1.00	0.00	C
ATOM	3844	CG	MET	407	43.736	96.325	51.711	1.00	0.00	C
ATOM	3845	SD	MET	407	44.372	97.943	52.247	1.00	0.00	S

ATOM	3846	CE	MET	407	46.016	97.720	51.509	1.00	0.00	C
ATOM	3847	C	MET	407	45.065	95.544	49.120	1.00	0.00	C
ATOM	3848	O	MET	407	45.887	95.415	50.023	1.00	0.00	O
ATOM	3849	N	GLN	408	44.880	94.597	48.190	1.00	0.00	N
ATOM	3850	HN	GLN	408	43.985	94.650	47.704	1.00	0.00	H
ATOM	3851	CA	GLN	408	45.727	93.520	47.761	1.00	0.00	C
ATOM	3852	CB	GLN	408	44.904	92.279	47.390	1.00	0.00	C
ATOM	3853	CG	GLN	408	44.164	91.738	48.620	1.00	0.00	C
ATOM	3854	CD	GLN	408	43.345	90.521	48.222	1.00	0.00	C
ATOM	3855	OE1	GLN	408	43.310	90.131	47.057	1.00	0.00	O
ATOM	3856	NE2	GLN	408	42.657	89.901	49.218	1.00	0.00	N
ATOM	3857	1HE2	GLN	408	42.107	89.084	48.951	1.00	0.00	H
ATOM	3858	2HE2	GLN	408	42.686	90.225	50.185	1.00	0.00	H
ATOM	3859	C	GLN	408	46.647	93.903	46.630	1.00	0.00	C
ATOM	3860	O	GLN	408	47.422	93.072	46.163	1.00	0.00	O
ATOM	3861	N	ARG	409	46.480	95.102	46.042	1.00	0.00	N
ATOM	3862	HN	ARG	409	45.751	95.721	46.397	1.00	0.00	H
ATOM	3863	CA	ARG	409	47.283	95.551	44.935	1.00	0.00	C
ATOM	3864	CB	ARG	409	48.778	95.264	45.182	1.00	0.00	C
ATOM	3865	CG	ARG	409	49.791	96.135	44.426	1.00	0.00	C
ATOM	3866	CD	ARG	409	49.957	95.835	42.936	1.00	0.00	C
ATOM	3867	NE	ARG	409	51.270	96.409	42.518	1.00	0.00	N
ATOM	3868	HE	ARG	409	52.034	95.786	42.257	1.00	0.00	H
ATOM	3869	CZ	ARG	409	51.455	97.760	42.483	1.00	0.00	C
ATOM	3870	NH1	ARG	409	50.461	98.589	42.909	1.00	0.00	N
ATOM	3871	1HH1	ARG	409	50.599	99.599	42.883	1.00	0.00	H
ATOM	3872	2HH1	ARG	409	49.576	98.200	43.235	1.00	0.00	H
ATOM	3873	NH2	ARG	409	52.640	98.281	42.046	1.00	0.00	N
ATOM	3874	1HH2	ARG	409	52.778	99.291	42.020	1.00	0.00	H
ATOM	3875	2HH2	ARG	409	53.384	97.660	41.727	1.00	0.00	H
ATOM	3876	C	ARG	409	46.830	94.753	43.774	1.00	0.00	C
ATOM	3877	O	ARG	409	47.461	94.718	42.719	1.00	0.00	O
ATOM	3878	N	LEU	410	45.629	94.183	43.938	1.00	0.00	N
ATOM	3879	HN	LEU	410	45.113	94.355	44.801	1.00	0.00	H
ATOM	3880	CA	LEU	410	45.054	93.348	42.948	1.00	0.00	C
ATOM	3881	CB	LEU	410	43.647	92.885	43.343	1.00	0.00	C
ATOM	3882	CG	LEU	410	43.057	91.847	42.386	1.00	0.00	C
ATOM	3883	CD1	LEU	410	43.991	90.641	42.229	1.00	0.00	C
ATOM	3884	CD2	LEU	410	41.683	91.407	42.879	1.00	0.00	C
ATOM	3885	C	LEU	410	44.999	94.177	41.696	1.00	0.00	C
ATOM	3886	O	LEU	410	45.250	93.667	40.613	1.00	0.00	O
ATOM	3887	N	TYR	411	44.693	95.484	41.796	1.00	0.00	N
ATOM	3888	HN	TYR	411	44.420	95.862	42.703	1.00	0.00	H
ATOM	3889	CA	TYR	411	44.741	96.363	40.655	1.00	0.00	C
ATOM	3890	CB	TYR	411	43.381	96.967	40.264	1.00	0.00	C
ATOM	3891	CG	TYR	411	42.389	95.938	39.855	1.00	0.00	C
ATOM	3892	CD1	TYR	411	41.779	95.139	40.794	1.00	0.00	C
ATOM	3893	CD2	TYR	411	42.039	95.807	38.531	1.00	0.00	C
ATOM	3894	CE1	TYR	411	40.849	94.201	40.412	1.00	0.00	C
ATOM	3895	CE2	TYR	411	41.111	94.872	38.144	1.00	0.00	C
ATOM	3896	CZ	TYR	411	40.516	94.067	39.085	1.00	0.00	C
ATOM	3897	OH	TYR	411	39.562	93.108	38.686	1.00	0.00	O
ATOM	3898	HH	TYR	411	39.332	93.015	37.769	1.00	0.00	H
ATOM	3899	C	TYR	411	45.476	97.568	41.118	1.00	0.00	C
ATOM	3900	O	TYR	411	45.298	97.968	42.266	1.00	0.00	O
ATOM	3901	N	ASP	412	46.309	98.190	40.255	1.00	0.00	N
ATOM	3902	HN	ASP	412	46.501	97.805	39.330	1.00	0.00	H
ATOM	3903	CA	ASP	412	46.915	99.421	40.696	1.00	0.00	C
ATOM	3904	CB	ASP	412	48.022	99.985	39.784	1.00	0.00	C
ATOM	3905	CG	ASP	412	49.339	99.277	40.061	1.00	0.00	C
ATOM	3906	OD1	ASP	412	49.308	98.121	40.561	1.00	0.00	O
ATOM	3907	OD2	ASP	412	50.399	99.901	39.786	1.00	0.00	O
ATOM	3908	C	ASP	412	45.833	100.459	40.717	1.00	0.00	C
ATOM	3909	O	ASP	412	44.869	100.355	39.963	1.00	0.00	O
ATOM	3910	N	PRO	413	45.938	101.459	41.557	1.00	0.00	N
ATOM	3911	CA	PRO	413	44.932	102.486	41.637	1.00	0.00	C
ATOM	3912	CD	PRO	413	46.765	101.404	42.749	1.00	0.00	C
ATOM	3913	CB	PRO	413	45.172	103.219	42.959	1.00	0.00	C
ATOM	3914	CG	PRO	413	46.593	102.797	43.379	1.00	0.00	C
ATOM	3915	C	PRO	413	44.961	103.366	40.433	1.00	0.00	C
ATOM	3916	O	PRO	413	46.045	103.748	39.994	1.00	0.00	O
ATOM	3917	N	THR	414	43.778	103.713	39.894	1.00	0.00	N
ATOM	3918	HN	THR	414	42.910	103.384	40.317	1.00	0.00	H
ATOM	3919	CA	THR	414	43.735	104.543	38.728	1.00	0.00	C

ATOM	3920	CB	THR	414	42.338	104.750	38.220	1.00	0.00	C
ATOM	3921	OG1	THR	414	41.744	103.502	37.894	1.00	0.00	O
ATOM	3922	HG1	THR	414	41.710	102.942	38.660	1.00	0.00	H
ATOM	3923	CG2	THR	414	42.393	105.657	36.979	1.00	0.00	C
ATOM	3924	C	THR	414	44.285	105.892	39.068	1.00	0.00	C
ATOM	3925	O	THR	414	45.146	106.418	38.365	1.00	0.00	O
ATOM	3926	N	GLU	415	43.803	106.489	40.174	1.00	0.00	N
ATOM	3927	HN	GLU	415	43.102	106.015	40.743	1.00	0.00	H
ATOM	3928	CA	GLU	415	44.273	107.790	40.554	1.00	0.00	C
ATOM	3929	CB	GLU	415	43.397	108.949	40.042	1.00	0.00	C
ATOM	3930	CG	GLU	415	43.860	110.331	40.515	1.00	0.00	C
ATOM	3931	CD	GLU	415	45.246	110.603	39.950	1.00	0.00	C
ATOM	3932	OE1	GLU	415	45.742	109.755	39.162	1.00	0.00	O
ATOM	3933	OE2	GLU	415	45.828	111.662	40.306	1.00	0.00	O
ATOM	3934	C	GLU	415	44.278	107.851	42.041	1.00	0.00	C
ATOM	3935	O	GLU	415	43.628	107.051	42.712	1.00	0.00	O
ATOM	3936	N	GLY	416	45.028	108.819	42.597	1.00	0.00	N
ATOM	3937	HN	GLY	416	45.540	109.475	42.008	1.00	0.00	H
ATOM	3938	CA	GLY	416	45.101	108.921	44.021	1.00	0.00	C
ATOM	3939	C	GLY	416	46.015	107.832	44.460	1.00	0.00	C
ATOM	3940	O	GLY	416	46.961	107.487	43.752	1.00	0.00	O
ATOM	3941	N	MET	417	45.780	107.269	45.658	1.00	0.00	N
ATOM	3942	HN	MET	417	45.012	107.577	46.254	1.00	0.00	H
ATOM	3943	CA	MET	417	46.663	106.217	46.053	1.00	0.00	C
ATOM	3944	CB	MET	417	48.111	106.697	46.244	1.00	0.00	C
ATOM	3945	CG	MET	417	48.236	107.786	47.314	1.00	0.00	C
ATOM	3946	SD	MET	417	49.923	108.397	47.591	1.00	0.00	S
ATOM	3947	CE	MET	417	50.444	106.898	48.465	1.00	0.00	C
ATOM	3948	C	MET	417	46.201	105.664	47.354	1.00	0.00	C
ATOM	3949	O	MET	417	45.253	106.165	47.958	1.00	0.00	O
ATOM	3950	N	VAL	418	46.856	104.571	47.791	1.00	0.00	N
ATOM	3951	HN	VAL	418	47.571	104.141	47.205	1.00	0.00	H
ATOM	3952	CA	VAL	418	46.554	104.010	49.073	1.00	0.00	C
ATOM	3953	CB	VAL	418	45.803	102.707	49.054	1.00	0.00	C
ATOM	3954	CG1	VAL	418	44.525	102.877	48.219	1.00	0.00	C
ATOM	3955	CG2	VAL	418	46.731	101.583	48.590	1.00	0.00	C
ATOM	3956	C	VAL	418	47.860	103.749	49.731	1.00	0.00	C
ATOM	3957	O	VAL	418	48.884	103.555	49.074	1.00	0.00	O
ATOM	3958	N	SER	419	47.844	103.759	51.070	1.00	0.00	N
ATOM	3959	HN	SER	419	46.964	103.905	51.564	1.00	0.00	H
ATOM	3960	CA	SER	419	49.046	103.568	51.811	1.00	0.00	C
ATOM	3961	CB	SER	419	49.465	104.870	52.521	1.00	0.00	C
ATOM	3962	OG	SER	419	50.483	104.632	53.478	1.00	0.00	O
ATOM	3963	HG	SER	419	50.741	105.435	53.916	1.00	0.00	H
ATOM	3964	C	SER	419	48.771	102.558	52.877	1.00	0.00	C
ATOM	3965	O	SER	419	47.721	102.588	53.515	1.00	0.00	O
ATOM	3966	N	VAL	420	49.711	101.612	53.062	1.00	0.00	N
ATOM	3967	HN	VAL	420	50.495	101.565	52.412	1.00	0.00	H
ATOM	3968	CA	VAL	420	49.651	100.672	54.134	1.00	0.00	C
ATOM	3969	CB	VAL	420	50.156	99.308	53.769	1.00	0.00	C
ATOM	3970	CG1	VAL	420	50.165	98.435	55.034	1.00	0.00	C
ATOM	3971	CG2	VAL	420	49.279	98.751	52.636	1.00	0.00	C
ATOM	3972	C	VAL	420	50.593	101.246	55.105	1.00	0.00	C
ATOM	3973	O	VAL	420	51.532	101.893	54.644	1.00	0.00	O
ATOM	3974	N	ASP	421	50.385	101.032	56.431	1.00	0.00	N
ATOM	3975	HN	ASP	421	49.638	100.414	56.750	1.00	0.00	H
ATOM	3976	CA	ASP	421	51.240	101.695	57.370	1.00	0.00	C
ATOM	3977	CB	ASP	421	52.705	101.221	57.251	1.00	0.00	C
ATOM	3978	CG	ASP	421	53.525	101.760	58.415	1.00	0.00	C
ATOM	3979	OD1	ASP	421	52.931	102.440	59.294	1.00	0.00	O
ATOM	3980	OD2	ASP	421	54.759	101.505	58.432	1.00	0.00	O
ATOM	3981	C	ASP	421	51.150	103.137	56.970	1.00	0.00	C
ATOM	3982	O	ASP	421	50.056	103.697	56.868	1.00	0.00	O
ATOM	3983	N	GLY	422	52.330	103.766	56.849	1.00	0.00	N
ATOM	3984	HN	GLY	422	53.130	103.262	57.232	1.00	0.00	H
ATOM	3985	CA	GLY	422	52.639	105.041	56.262	1.00	0.00	C
ATOM	3986	C	GLY	422	52.919	105.016	54.771	1.00	0.00	C
ATOM	3987	O	GLY	422	52.831	106.058	54.123	1.00	0.00	O
ATOM	3988	N	GLN	423	53.375	103.867	54.208	1.00	0.00	N
ATOM	3989	HN	GLN	423	53.345	103.008	54.758	1.00	0.00	H
ATOM	3990	CA	GLN	423	53.902	103.809	52.859	1.00	0.00	C
ATOM	3991	CB	GLN	423	55.022	102.761	52.734	1.00	0.00	C
ATOM	3992	CG	GLN	423	56.184	103.009	53.701	1.00	0.00	C
ATOM	3993	CD	GLN	423	57.171	101.857	53.563	1.00	0.00	C

ATOM	3994	OE1	GLN	423	56.779	100.693	53.508	1.00	0.00	O
ATOM	3995	NE2	GLN	423	58.489	102.188	53.500	1.00	0.00	N
ATOM	3996	1HE2	GLN	423	59.150	101.417	53.408	1.00	0.00	H
ATOM	3997	2HE2	GLN	423	58.814	103.154	53.546	1.00	0.00	H
ATOM	3998	C	GLN	423	52.854	103.451	51.846	1.00	0.00	C
ATOM	3999	O	GLN	423	51.817	102.875	52.160	1.00	0.00	O
ATOM	4000	N	ASP	424	53.128	103.797	50.569	1.00	0.00	N
ATOM	4001	HN	ASP	424	54.014	104.261	50.369	1.00	0.00	H
ATOM	4002	CA	ASP	424	52.229	103.541	49.482	1.00	0.00	C
ATOM	4003	CB	ASP	424	52.559	104.399	48.244	1.00	0.00	C
ATOM	4004	CG	ASP	424	51.686	103.979	47.073	1.00	0.00	C
ATOM	4005	OD1	ASP	424	51.945	102.879	46.521	1.00	0.00	O
ATOM	4006	OD2	ASP	424	50.756	104.745	46.707	1.00	0.00	O
ATOM	4007	C	ASP	424	52.330	102.092	49.123	1.00	0.00	C
ATOM	4008	O	ASP	424	53.411	101.536	48.965	1.00	0.00	O
ATOM	4009	N	ILE	425	51.172	101.446	48.934	1.00	0.00	N
ATOM	4010	HN	ILE	425	50.303	101.980	48.940	1.00	0.00	H
ATOM	4011	CA	ILE	425	51.114	100.025	48.723	1.00	0.00	C
ATOM	4012	CB	ILE	425	49.700	99.553	48.530	1.00	0.00	C
ATOM	4013	CG1	ILE	425	49.652	98.029	48.365	1.00	0.00	C
ATOM	4014	CG2	ILE	425	49.080	100.321	47.351	1.00	0.00	C
ATOM	4015	CD1	ILE	425	48.228	97.478	48.376	1.00	0.00	C
ATOM	4016	C	ILE	425	51.893	99.587	47.513	1.00	0.00	C
ATOM	4017	O	ILE	425	52.707	98.667	47.591	1.00	0.00	O
ATOM	4018	N	ARG	426	51.721	100.284	46.380	1.00	0.00	N
ATOM	4019	HN	ARG	426	51.195	101.157	46.426	1.00	0.00	H
ATOM	4020	CA	ARG	426	52.235	99.870	45.111	1.00	0.00	C
ATOM	4021	CB	ARG	426	51.895	100.890	44.018	1.00	0.00	C
ATOM	4022	CG	ARG	426	50.402	101.226	44.026	1.00	0.00	C
ATOM	4023	CD	ARG	426	49.890	101.897	42.756	1.00	0.00	C
ATOM	4024	NE	ARG	426	50.715	103.107	42.509	1.00	0.00	N
ATOM	4025	HE	ARG	426	51.691	103.133	42.805	1.00	0.00	H
ATOM	4026	CZ	ARG	426	50.158	104.184	41.884	1.00	0.00	C
ATOM	4027	NH1	ARG	426	48.822	104.199	41.612	1.00	0.00	N
ATOM	4028	1HH1	ARG	426	48.406	105.004	41.145	1.00	0.00	H
ATOM	4029	2HH1	ARG	426	48.238	103.407	41.878	1.00	0.00	H
ATOM	4030	NH2	ARG	426	50.939	105.243	41.528	1.00	0.00	N
ATOM	4031	1HH2	ARG	426	50.523	106.048	41.061	1.00	0.00	H
ATOM	4032	2HH2	ARG	426	51.938	105.232	41.731	1.00	0.00	H
ATOM	4033	C	ARG	426	53.719	99.729	45.196	1.00	0.00	C
ATOM	4034	O	ARG	426	54.292	98.825	44.586	1.00	0.00	O
ATOM	4035	N	THR	427	54.374	100.608	45.975	1.00	0.00	N
ATOM	4036	HN	THR	427	53.849	101.286	46.527	1.00	0.00	H
ATOM	4037	CA	THR	427	55.807	100.597	46.033	1.00	0.00	C
ATOM	4038	CB	THR	427	56.384	101.681	46.898	1.00	0.00	C
ATOM	4039	OG1	THR	427	57.789	101.733	46.720	1.00	0.00	O
ATOM	4040	HG1	THR	427	58.154	102.419	47.267	1.00	0.00	H
ATOM	4041	CG2	THR	427	56.072	101.385	48.371	1.00	0.00	C
ATOM	4042	C	THR	427	56.336	99.293	46.552	1.00	0.00	C
ATOM	4043	O	THR	427	57.348	98.805	46.057	1.00	0.00	O
ATOM	4044	N	ILE	428	55.687	98.694	47.565	1.00	0.00	N
ATOM	4045	HN	ILE	428	54.826	99.112	47.917	1.00	0.00	H
ATOM	4046	CA	ILE	428	56.173	97.478	48.168	1.00	0.00	C
ATOM	4047	CB	ILE	428	55.585	97.234	49.532	1.00	0.00	C
ATOM	4048	CG1	ILE	428	54.051	97.099	49.491	1.00	0.00	C
ATOM	4049	CG2	ILE	428	56.053	98.398	50.423	1.00	0.00	C
ATOM	4050	CD1	ILE	428	53.530	95.805	48.876	1.00	0.00	C
ATOM	4051	C	ILE	428	55.945	96.290	47.264	1.00	0.00	C
ATOM	4052	O	ILE	428	55.047	96.296	46.424	1.00	0.00	O
ATOM	4053	N	ASN	429	56.804	95.246	47.379	1.00	0.00	N
ATOM	4054	HN	ASN	429	57.539	95.277	48.086	1.00	0.00	H
ATOM	4055	CA	ASN	429	56.696	94.093	46.520	1.00	0.00	C
ATOM	4056	CB	ASN	429	57.892	93.130	46.552	1.00	0.00	C
ATOM	4057	CG	ASN	429	57.815	92.421	47.882	1.00	0.00	C
ATOM	4058	OD1	ASN	429	57.447	93.027	48.884	1.00	0.00	O
ATOM	4059	ND2	ASN	429	58.141	91.102	47.890	1.00	0.00	N
ATOM	4060	1HD2	ASN	429	58.447	90.598	47.057	1.00	0.00	H
ATOM	4061	2HD2	ASN	429	58.089	90.623	48.789	1.00	0.00	H
ATOM	4062	C	ASN	429	55.483	93.283	46.875	1.00	0.00	C
ATOM	4063	O	ASN	429	54.998	93.297	48.005	1.00	0.00	O
ATOM	4064	N	VAL	430	54.962	92.557	45.865	1.00	0.00	N
ATOM	4065	HN	VAL	430	55.480	92.523	44.987	1.00	0.00	H
ATOM	4066	CA	VAL	430	53.723	91.826	45.944	1.00	0.00	C
ATOM	4067	CB	VAL	430	53.294	91.294	44.607	1.00	0.00	C

ATOM	4068	CG1	VAL	430	51.974	90.525	44.781	1.00	0.00	C
ATOM	4069	CG2	VAL	430	53.220	92.464	43.612	1.00	0.00	C
ATOM	4070	C	VAL	430	53.711	90.666	46.890	1.00	0.00	C
ATOM	4071	O	VAL	430	52.944	90.689	47.852	1.00	0.00	O
ATOM	4072	N	ARG	431	54.621	89.677	46.707	1.00	0.00	N
ATOM	4073	HN	ARG	431	55.372	89.824	46.033	1.00	0.00	H
ATOM	4074	CA	ARG	431	54.573	88.424	47.425	1.00	0.00	C
ATOM	4075	CB	ARG	431	55.836	87.580	47.218	1.00	0.00	C
ATOM	4076	CG	ARG	431	55.830	86.282	48.026	1.00	0.00	C
ATOM	4077	CD	ARG	431	57.150	85.514	47.938	1.00	0.00	C
ATOM	4078	NE	ARG	431	57.387	85.212	46.499	1.00	0.00	N
ATOM	4079	HE	ARG	431	56.606	85.201	45.843	1.00	0.00	H
ATOM	4080	CZ	ARG	431	58.653	84.950	46.060	1.00	0.00	C
ATOM	4081	NH1	ARG	431	59.695	84.948	46.942	1.00	0.00	N
ATOM	4082	1HH1	ARG	431	60.641	84.752	46.614	1.00	0.00	H
ATOM	4083	2HH1	ARG	431	59.530	85.139	47.930	1.00	0.00	H
ATOM	4084	NH2	ARG	431	58.874	84.695	44.738	1.00	0.00	N
ATOM	4085	1HH2	ARG	431	59.820	84.499	44.410	1.00	0.00	H
ATOM	4086	2HH2	ARG	431	58.095	84.696	44.079	1.00	0.00	H
ATOM	4087	C	ARG	431	54.546	88.768	48.881	1.00	0.00	C
ATOM	4088	O	ARG	431	53.834	88.146	49.671	1.00	0.00	O
ATOM	4089	N	PHE	432	55.334	89.791	49.256	1.00	0.00	N
ATOM	4090	HN	PHE	432	55.904	90.256	48.549	1.00	0.00	H
ATOM	4091	CA	PHE	432	55.405	90.255	50.613	1.00	0.00	C
ATOM	4092	CB	PHE	432	56.550	91.274	50.765	1.00	0.00	C
ATOM	4093	CG	PHE	432	56.897	91.587	52.182	1.00	0.00	C
ATOM	4094	CD1	PHE	432	56.270	92.608	52.855	1.00	0.00	C
ATOM	4095	CD2	PHE	432	57.875	90.869	52.834	1.00	0.00	C
ATOM	4096	CE1	PHE	432	56.600	92.900	54.158	1.00	0.00	C
ATOM	4097	CE2	PHE	432	58.209	91.157	54.137	1.00	0.00	C
ATOM	4098	CZ	PHE	432	57.572	92.175	54.805	1.00	0.00	C
ATOM	4099	C	PHE	432	54.096	90.877	51.030	1.00	0.00	C
ATOM	4100	O	PHE	432	53.545	90.529	52.075	1.00	0.00	O
ATOM	4101	N	LEU	433	53.530	91.783	50.199	1.00	0.00	N
ATOM	4102	HN	LEU	433	53.956	91.979	49.293	1.00	0.00	H
ATOM	4103	CA	LEU	433	52.324	92.473	50.592	1.00	0.00	C
ATOM	4104	CB	LEU	433	51.782	93.412	49.507	1.00	0.00	C
ATOM	4105	CG	LEU	433	50.479	94.115	49.930	1.00	0.00	C
ATOM	4106	CD1	LEU	433	50.729	95.161	51.028	1.00	0.00	C
ATOM	4107	CD2	LEU	433	49.726	94.668	48.712	1.00	0.00	C
ATOM	4108	C	LEU	433	51.252	91.470	50.810	1.00	0.00	C
ATOM	4109	O	LEU	433	50.646	91.407	51.879	1.00	0.00	O
ATOM	4110	N	ARG	434	51.078	90.587	49.819	1.00	0.00	N
ATOM	4111	HN	ARG	434	51.722	90.596	49.028	1.00	0.00	H
ATOM	4112	CA	ARG	434	50.018	89.635	49.839	1.00	0.00	C
ATOM	4113	CB	ARG	434	50.059	88.686	48.627	1.00	0.00	C
ATOM	4114	CG	ARG	434	49.860	89.409	47.289	1.00	0.00	C
ATOM	4115	CD	ARG	434	48.389	89.620	46.916	1.00	0.00	C
ATOM	4116	NE	ARG	434	48.336	90.451	45.677	1.00	0.00	N
ATOM	4117	HE	ARG	434	48.578	91.441	45.720	1.00	0.00	H
ATOM	4118	CZ	ARG	434	47.966	89.895	44.486	1.00	0.00	C
ATOM	4119	NH1	ARG	434	47.668	88.565	44.417	1.00	0.00	N
ATOM	4120	1HH1	ARG	434	47.737	87.985	45.253	1.00	0.00	H
ATOM	4121	2HH1	ARG	434	47.392	88.150	43.527	1.00	0.00	H
ATOM	4122	NH2	ARG	434	47.874	90.672	43.367	1.00	0.00	N
ATOM	4123	1HH2	ARG	434	48.097	91.666	43.419	1.00	0.00	H
ATOM	4124	2HH2	ARG	434	47.598	90.257	42.477	1.00	0.00	H
ATOM	4125	C	ARG	434	50.162	88.832	51.094	1.00	0.00	C
ATOM	4126	O	ARG	434	49.167	88.412	51.679	1.00	0.00	O
ATOM	4127	N	GLU	435	51.402	88.553	51.539	1.00	0.00	N
ATOM	4128	HN	GLU	435	52.234	88.845	51.026	1.00	0.00	H
ATOM	4129	CA	GLU	435	51.493	87.823	52.774	1.00	0.00	C
ATOM	4130	CB	GLU	435	52.840	87.107	52.997	1.00	0.00	C
ATOM	4131	CG	GLU	435	54.098	87.945	52.822	1.00	0.00	C
ATOM	4132	CD	GLU	435	55.265	86.965	52.810	1.00	0.00	C
ATOM	4133	OE1	GLU	435	54.997	85.734	52.861	1.00	0.00	O
ATOM	4134	OE2	GLU	435	56.434	87.428	52.741	1.00	0.00	O
ATOM	4135	C	GLU	435	51.077	88.656	53.972	1.00	0.00	C
ATOM	4136	O	GLU	435	50.393	88.161	54.865	1.00	0.00	O
ATOM	4137	N	ILE	436	51.427	89.958	53.996	1.00	0.00	N
ATOM	4138	HN	ILE	436	51.926	90.316	53.182	1.00	0.00	H
ATOM	4139	CA	ILE	436	51.164	90.893	55.063	1.00	0.00	C
ATOM	4140	CB	ILE	436	51.685	92.266	54.757	1.00	0.00	C
ATOM	4141	CG1	ILE	436	53.179	92.219	54.431	1.00	0.00	C

ATOM	4142	CG2	ILE	436	51.376	93.195	55.944	1.00	0.00	C
ATOM	4143	CD1	ILE	436	53.655	93.536	53.833	1.00	0.00	C
ATOM	4144	C	ILE	436	49.688	91.048	55.245	1.00	0.00	C
ATOM	4145	O	ILE	436	49.232	91.531	56.279	1.00	0.00	O
ATOM	4146	N	ILE	437	48.895	90.792	54.194	1.00	0.00	N
ATOM	4147	HN	ILE	437	49.280	90.455	53.311	1.00	0.00	H
ATOM	4148	CA	ILE	437	47.485	91.009	54.356	1.00	0.00	C
ATOM	4149	CB	ILE	437	46.911	91.880	53.274	1.00	0.00	C
ATOM	4150	CG1	ILE	437	47.531	93.291	53.312	1.00	0.00	C
ATOM	4151	CG2	ILE	437	45.387	91.894	53.443	1.00	0.00	C
ATOM	4152	CD1	ILE	437	48.986	93.362	52.853	1.00	0.00	C
ATOM	4153	C	ILE	437	46.717	89.714	54.359	1.00	0.00	C
ATOM	4154	O	ILE	437	46.479	89.109	53.317	1.00	0.00	O
ATOM	4155	N	GLY	438	46.251	89.284	55.550	1.00	0.00	N
ATOM	4156	HN	GLY	438	46.438	89.844	56.382	1.00	0.00	H
ATOM	4157	CA	GLY	438	45.501	88.066	55.691	1.00	0.00	C
ATOM	4158	C	GLY	438	44.161	88.298	55.076	1.00	0.00	C
ATOM	4159	O	GLY	438	43.578	89.365	55.257	1.00	0.00	O
ATOM	4160	N	VAL	439	43.629	87.298	54.338	1.00	0.00	N
ATOM	4161	HN	VAL	439	44.130	86.418	54.217	1.00	0.00	H
ATOM	4162	CA	VAL	439	42.343	87.499	53.726	1.00	0.00	C
ATOM	4163	CB	VAL	439	42.436	87.928	52.285	1.00	0.00	C
ATOM	4164	CG1	VAL	439	41.017	87.996	51.695	1.00	0.00	C
ATOM	4165	CG2	VAL	439	43.197	89.262	52.213	1.00	0.00	C
ATOM	4166	C	VAL	439	41.520	86.236	53.760	1.00	0.00	C
ATOM	4167	O	VAL	439	42.011	85.132	53.536	1.00	0.00	O
ATOM	4168	N	VAL	440	40.209	86.371	54.052	1.00	0.00	N
ATOM	4169	HN	VAL	440	39.832	87.293	54.270	1.00	0.00	H
ATOM	4170	CA	VAL	440	39.338	85.224	54.058	1.00	0.00	C
ATOM	4171	CB	VAL	440	38.993	84.765	55.445	1.00	0.00	C
ATOM	4172	CG1	VAL	440	38.059	83.547	55.352	1.00	0.00	C
ATOM	4173	CG2	VAL	440	40.304	84.490	56.199	1.00	0.00	C
ATOM	4174	C	VAL	440	38.063	85.603	53.367	1.00	0.00	C
ATOM	4175	O	VAL	440	37.288	86.403	53.884	1.00	0.00	O
ATOM	4176	N	SER	441	37.815	85.018	52.176	1.00	0.00	N
ATOM	4177	HN	SER	441	38.504	84.366	51.802	1.00	0.00	H
ATOM	4178	CA	SER	441	36.623	85.272	51.410	1.00	0.00	C
ATOM	4179	CB	SER	441	36.893	85.368	49.901	1.00	0.00	C
ATOM	4180	OG	SER	441	37.492	84.166	49.442	1.00	0.00	O
ATOM	4181	HG	SER	441	37.659	84.225	48.509	1.00	0.00	H
ATOM	4182	C	SER	441	35.655	84.141	51.646	1.00	0.00	C
ATOM	4183	O	SER	441	35.892	83.271	52.484	1.00	0.00	O
ATOM	4184	N	GLN	442	34.521	84.144	50.902	1.00	0.00	N
ATOM	4185	HN	GLN	442	34.429	84.808	50.133	1.00	0.00	H
ATOM	4186	CA	GLN	442	33.445	83.228	51.176	1.00	0.00	C
ATOM	4187	CB	GLN	442	32.179	83.559	50.357	1.00	0.00	C
ATOM	4188	CG	GLN	442	32.342	83.450	48.836	1.00	0.00	C
ATOM	4189	CD	GLN	442	33.193	84.613	48.344	1.00	0.00	C
ATOM	4190	OE1	GLN	442	34.420	84.537	48.315	1.00	0.00	O
ATOM	4191	NE2	GLN	442	32.521	85.723	47.936	1.00	0.00	N
ATOM	4192	1HE2	GLN	442	33.091	86.502	47.606	1.00	0.00	H
ATOM	4193	2HE2	GLN	442	31.503	85.786	47.960	1.00	0.00	H
ATOM	4194	C	GLN	442	33.730	81.763	51.005	1.00	0.00	C
ATOM	4195	O	GLN	442	33.982	81.092	52.001	1.00	0.00	O
ATOM	4196	N	GLU	443	33.837	81.243	49.762	1.00	0.00	N
ATOM	4197	HN	GLU	443	33.832	81.852	48.944	1.00	0.00	H
ATOM	4198	CA	GLU	443	33.958	79.819	49.611	1.00	0.00	C
ATOM	4199	CB	GLU	443	34.027	79.394	48.130	1.00	0.00	C
ATOM	4200	CG	GLU	443	34.923	78.180	47.844	1.00	0.00	C
ATOM	4201	CD	GLU	443	34.352	76.894	48.426	1.00	0.00	C
ATOM	4202	OE1	GLU	443	33.754	76.941	49.532	1.00	0.00	O
ATOM	4203	OE2	GLU	443	34.528	75.834	47.768	1.00	0.00	O
ATOM	4204	C	GLU	443	35.231	79.403	50.258	1.00	0.00	C
ATOM	4205	O	GLU	443	36.303	79.690	49.738	1.00	0.00	O
ATOM	4206	N	PRO	444	35.164	78.781	51.404	1.00	0.00	N
ATOM	4207	CA	PRO	444	36.337	78.322	52.073	1.00	0.00	C
ATOM	4208	CD	PRO	444	33.937	78.280	52.008	1.00	0.00	C
ATOM	4209	CB	PRO	444	35.853	77.828	53.433	1.00	0.00	C
ATOM	4210	CG	PRO	444	34.414	77.350	53.140	1.00	0.00	C
ATOM	4211	C	PRO	444	36.778	77.202	51.221	1.00	0.00	C
ATOM	4212	O	PRO	444	36.019	76.242	51.098	1.00	0.00	O
ATOM	4213	N	VAL	445	37.994	77.245	50.668	1.00	0.00	N
ATOM	4214	HN	VAL	445	38.648	78.012	50.821	1.00	0.00	H
ATOM	4215	CA	VAL	445	38.290	76.129	49.851	1.00	0.00	C

ATOM	4216	CB	VAL	445	38.657	76.497	48.442	1.00	0.00	C
ATOM	4217	CG1	VAL	445	39.935	77.355	48.468	1.00	0.00	C
ATOM	4218	CG2	VAL	445	38.785	75.199	47.625	1.00	0.00	C
ATOM	4219	C	VAL	445	39.434	75.410	50.437	1.00	0.00	C
ATOM	4220	O	VAL	445	40.426	76.006	50.856	1.00	0.00	O
ATOM	4221	N	LEU	446	39.295	74.081	50.488	1.00	0.00	N
ATOM	4222	HN	LEU	446	38.440	73.643	50.145	1.00	0.00	H
ATOM	4223	CA	LEU	446	40.342	73.281	51.021	1.00	0.00	C
ATOM	4224	CB	LEU	446	39.936	72.465	52.254	1.00	0.00	C
ATOM	4225	CG	LEU	446	39.618	73.355	53.468	1.00	0.00	C
ATOM	4226	CD1	LEU	446	39.229	72.508	54.689	1.00	0.00	C
ATOM	4227	CD2	LEU	446	40.769	74.337	53.751	1.00	0.00	C
ATOM	4228	C	LEU	446	40.694	72.335	49.939	1.00	0.00	C
ATOM	4229	O	LEU	446	39.839	71.635	49.397	1.00	0.00	O
ATOM	4230	N	PHE	447	41.987	72.299	49.600	1.00	0.00	N
ATOM	4231	HN	PHE	447	42.654	72.888	50.098	1.00	0.00	H
ATOM	4232	CA	PHE	447	42.445	71.451	48.555	1.00	0.00	C
ATOM	4233	CB	PHE	447	43.926	71.687	48.225	1.00	0.00	C
ATOM	4234	CG	PHE	447	44.081	73.153	48.002	1.00	0.00	C
ATOM	4235	CD1	PHE	447	44.365	73.981	49.065	1.00	0.00	C
ATOM	4236	CD2	PHE	447	43.931	73.706	46.752	1.00	0.00	C
ATOM	4237	CE1	PHE	447	44.507	75.336	48.884	1.00	0.00	C
ATOM	4238	CE2	PHE	447	44.072	75.062	46.565	1.00	0.00	C
ATOM	4239	CZ	PHE	447	44.362	75.880	47.630	1.00	0.00	C
ATOM	4240	C	PHE	447	42.302	70.057	49.066	1.00	0.00	C
ATOM	4241	O	PHE	447	42.200	69.837	50.270	1.00	0.00	O
ATOM	4242	N	ALA	448	42.248	69.055	48.171	1.00	0.00	N
ATOM	4243	HN	ALA	448	42.318	69.218	47.167	1.00	0.00	H
ATOM	4244	CA	ALA	448	42.086	67.741	48.724	1.00	0.00	C
ATOM	4245	CB	ALA	448	41.633	66.692	47.692	1.00	0.00	C
ATOM	4246	C	ALA	448	43.417	67.319	49.252	1.00	0.00	C
ATOM	4247	O	ALA	448	44.314	66.982	48.479	1.00	0.00	O
ATOM	4248	N	THR	449	43.561	67.323	50.598	1.00	0.00	N
ATOM	4249	HN	THR	449	42.767	67.574	51.187	1.00	0.00	H
ATOM	4250	CA	THR	449	44.811	66.980	51.210	1.00	0.00	C
ATOM	4251	CB	THR	449	45.823	68.104	51.085	1.00	0.00	C
ATOM	4252	OG1	THR	449	45.842	68.603	49.758	1.00	0.00	O
ATOM	4253	HG1	THR	449	44.969	68.936	49.587	1.00	0.00	H
ATOM	4254	CG2	THR	449	47.240	67.563	51.362	1.00	0.00	C
ATOM	4255	C	THR	449	44.535	66.777	52.680	1.00	0.00	C
ATOM	4256	O	THR	449	43.393	66.651	53.117	1.00	0.00	O
ATOM	4257	N	THR	450	45.613	66.741	53.480	1.00	0.00	N
ATOM	4258	HN	THR	450	46.520	66.848	53.027	1.00	0.00	H
ATOM	4259	CA	THR	450	45.625	66.569	54.899	1.00	0.00	C
ATOM	4260	CB	THR	450	47.044	66.371	55.343	1.00	0.00	C
ATOM	4261	OG1	THR	450	47.680	65.432	54.497	1.00	0.00	O
ATOM	4262	HG1	THR	450	47.664	65.787	53.616	1.00	0.00	H
ATOM	4263	CG2	THR	450	47.070	65.801	56.758	1.00	0.00	C
ATOM	4264	C	THR	450	45.207	67.902	55.444	1.00	0.00	C
ATOM	4265	O	THR	450	45.364	68.922	54.774	1.00	0.00	O
ATOM	4266	N	ILE	451	44.652	67.939	56.671	1.00	0.00	N
ATOM	4267	HN	ILE	451	44.488	67.078	57.193	1.00	0.00	H
ATOM	4268	CA	ILE	451	44.297	69.209	57.230	1.00	0.00	C
ATOM	4269	CB	ILE	451	43.673	69.101	58.592	1.00	0.00	C
ATOM	4270	CG1	ILE	451	42.339	68.341	58.499	1.00	0.00	C
ATOM	4271	CG2	ILE	451	43.535	70.519	59.172	1.00	0.00	C
ATOM	4272	CD1	ILE	451	41.311	69.012	57.587	1.00	0.00	C
ATOM	4273	C	ILE	451	45.578	69.962	57.361	1.00	0.00	C
ATOM	4274	O	ILE	451	45.687	71.120	56.959	1.00	0.00	O
ATOM	4275	N	ALA	452	46.620	69.274	57.857	1.00	0.00	N
ATOM	4276	HN	ALA	452	46.518	68.279	58.059	1.00	0.00	H
ATOM	4277	CA	ALA	452	47.871	69.922	58.105	1.00	0.00	C
ATOM	4278	CB	ALA	452	48.952	68.942	58.592	1.00	0.00	C
ATOM	4279	C	ALA	452	48.366	70.535	56.832	1.00	0.00	C
ATOM	4280	O	ALA	452	48.729	71.709	56.805	1.00	0.00	O
ATOM	4281	N	GLU	453	48.308	69.788	55.720	1.00	0.00	N
ATOM	4282	HN	GLU	453	47.863	68.871	55.759	1.00	0.00	H
ATOM	4283	CA	GLU	453	48.856	70.246	54.477	1.00	0.00	C
ATOM	4284	CB	GLU	453	48.655	69.219	53.352	1.00	0.00	C
ATOM	4285	CG	GLU	453	49.569	69.442	52.150	1.00	0.00	C
ATOM	4286	CD	GLU	453	50.947	68.904	52.513	1.00	0.00	C
ATOM	4287	OE1	GLU	453	51.078	68.319	53.620	1.00	0.00	O
ATOM	4288	OE2	GLU	453	51.886	69.073	51.689	1.00	0.00	O
ATOM	4289	C	GLU	453	48.167	71.519	54.075	1.00	0.00	C

ATOM	4290	O	GLU	453	48.783	72.415	53.502	1.00	0.00	O
ATOM	4291	N	ASN	454	46.855	71.643	54.338	1.00	0.00	N
ATOM	4292	HN	ASN	454	46.349	70.890	54.803	1.00	0.00	H
ATOM	4293	CA	ASN	454	46.173	72.851	53.956	1.00	0.00	C
ATOM	4294	CB	ASN	454	44.663	72.807	54.251	1.00	0.00	C
ATOM	4295	CG	ASN	454	43.995	71.927	53.203	1.00	0.00	C
ATOM	4296	OD1	ASN	454	44.066	72.206	52.007	1.00	0.00	O
ATOM	4297	ND2	ASN	454	43.325	70.834	53.660	1.00	0.00	N
ATOM	4298	1HD2	ASN	454	43.266	70.603	54.652	1.00	0.00	H
ATOM	4299	2HD2	ASN	454	42.878	70.245	52.958	1.00	0.00	H
ATOM	4300	C	ASN	454	46.750	74.003	54.717	1.00	0.00	C
ATOM	4301	O	ASN	454	47.058	75.048	54.145	1.00	0.00	O
ATOM	4302	N	ILE	455	46.949	73.831	56.034	1.00	0.00	N
ATOM	4303	HN	ILE	455	46.715	72.941	56.474	1.00	0.00	H
ATOM	4304	CA	ILE	455	47.491	74.902	56.820	1.00	0.00	C
ATOM	4305	CB	ILE	455	47.713	74.527	58.254	1.00	0.00	C
ATOM	4306	CG1	ILE	455	46.374	74.200	58.934	1.00	0.00	C
ATOM	4307	CG2	ILE	455	48.498	75.665	58.925	1.00	0.00	C
ATOM	4308	CD1	ILE	455	45.366	75.347	58.885	1.00	0.00	C
ATOM	4309	C	ILE	455	48.829	75.203	56.225	1.00	0.00	C
ATOM	4310	O	ILE	455	49.212	76.364	56.084	1.00	0.00	O
ATOM	4311	N	ARG	456	49.570	74.149	55.833	1.00	0.00	N
ATOM	4312	HN	ARG	456	49.205	73.202	55.937	1.00	0.00	H
ATOM	4313	CA	ARG	456	50.869	74.357	55.271	1.00	0.00	C
ATOM	4314	CB	ARG	456	51.791	73.118	55.202	1.00	0.00	C
ATOM	4315	CG	ARG	456	51.298	71.902	54.433	1.00	0.00	C
ATOM	4316	CD	ARG	456	52.245	70.710	54.574	1.00	0.00	C
ATOM	4317	NE	ARG	456	52.601	70.608	56.018	1.00	0.00	N
ATOM	4318	HE	ARG	456	52.409	71.390	56.644	1.00	0.00	H
ATOM	4319	CZ	ARG	456	53.182	69.474	56.507	1.00	0.00	C
ATOM	4320	NH1	ARG	456	53.399	68.409	55.682	1.00	0.00	N
ATOM	4321	1HH1	ARG	456	53.129	68.458	54.700	1.00	0.00	H
ATOM	4322	2HH1	ARG	456	53.833	67.561	56.047	1.00	0.00	H
ATOM	4323	NH2	ARG	456	53.544	69.408	57.822	1.00	0.00	N
ATOM	4324	1HH2	ARG	456	53.382	70.204	58.439	1.00	0.00	H
ATOM	4325	2HH2	ARG	456	53.978	68.560	58.187	1.00	0.00	H
ATOM	4326	C	ARG	456	50.761	75.068	53.953	1.00	0.00	C
ATOM	4327	O	ARG	456	51.698	75.737	53.541	1.00	0.00	O
ATOM	4328	N	TYR	457	49.642	74.948	53.221	1.00	0.00	N
ATOM	4329	HN	TYR	457	48.903	74.305	53.505	1.00	0.00	H
ATOM	4330	CA	TYR	457	49.503	75.742	52.027	1.00	0.00	C
ATOM	4331	CB	TYR	457	48.118	75.597	51.371	1.00	0.00	C
ATOM	4332	CG	TYR	457	48.094	74.425	50.449	1.00	0.00	C
ATOM	4333	CD1	TYR	457	48.128	73.126	50.901	1.00	0.00	C
ATOM	4334	CD2	TYR	457	48.061	74.655	49.092	1.00	0.00	C
ATOM	4335	CE1	TYR	457	48.108	72.080	50.004	1.00	0.00	C
ATOM	4336	CE2	TYR	457	48.040	73.618	48.193	1.00	0.00	C
ATOM	4337	CZ	TYR	457	48.062	72.325	48.651	1.00	0.00	C
ATOM	4338	OH	TYR	457	48.042	71.256	47.730	1.00	0.00	O
ATOM	4339	HH	TYR	457	48.057	70.361	48.047	1.00	0.00	H
ATOM	4340	C	TYR	457	49.625	77.161	52.470	1.00	0.00	C
ATOM	4341	O	TYR	457	50.217	77.994	51.787	1.00	0.00	O
ATOM	4342	N	GLY	458	49.077	77.463	53.657	1.00	0.00	N
ATOM	4343	HN	GLY	458	48.626	76.733	54.209	1.00	0.00	H
ATOM	4344	CA	GLY	458	49.122	78.803	54.151	1.00	0.00	C
ATOM	4345	C	GLY	458	50.557	79.202	54.232	1.00	0.00	C
ATOM	4346	O	GLY	458	50.919	80.322	53.876	1.00	0.00	O
ATOM	4347	N	ARG	459	51.422	78.296	54.716	1.00	0.00	N
ATOM	4348	HN	ARG	459	51.097	77.375	55.009	1.00	0.00	H
ATOM	4349	CA	ARG	459	52.809	78.643	54.815	1.00	0.00	C
ATOM	4350	CB	ARG	459	53.161	79.092	56.245	1.00	0.00	C
ATOM	4351	CG	ARG	459	54.506	79.798	56.400	1.00	0.00	C
ATOM	4352	CD	ARG	459	55.013	79.821	57.846	1.00	0.00	C
ATOM	4353	NE	ARG	459	53.999	80.495	58.706	1.00	0.00	N
ATOM	4354	HE	ARG	459	53.293	81.104	58.291	1.00	0.00	H
ATOM	4355	CZ	ARG	459	54.026	80.288	60.056	1.00	0.00	C
ATOM	4356	NH1	ARG	459	54.949	79.441	60.597	1.00	0.00	N
ATOM	4357	1HH1	ARG	459	55.614	78.965	59.987	1.00	0.00	H
ATOM	4358	2HH1	ARG	459	54.969	79.286	61.605	1.00	0.00	H
ATOM	4359	NH2	ARG	459	53.137	80.925	60.872	1.00	0.00	N
ATOM	4360	1HH2	ARG	459	52.447	81.558	60.468	1.00	0.00	H
ATOM	4361	2HH2	ARG	459	53.157	80.770	61.880	1.00	0.00	H
ATOM	4362	C	ARG	459	53.577	77.395	54.544	1.00	0.00	C
ATOM	4363	O	ARG	459	53.495	76.461	55.342	1.00	0.00	O

ATOM	4364	N	GLU	460	54.348	77.343	53.429	1.00	0.00	N
ATOM	4365	HN	GLU	460	54.471	78.177	52.855	1.00	0.00	H
ATOM	4366	CA	GLU	460	54.993	76.111	53.055	1.00	0.00	C
ATOM	4367	CB	GLU	460	55.870	76.261	51.798	1.00	0.00	C
ATOM	4368	CG	GLU	460	56.798	77.476	51.825	1.00	0.00	C
ATOM	4369	CD	GLU	460	55.944	78.705	51.534	1.00	0.00	C
ATOM	4370	OE1	GLU	460	55.378	78.780	50.411	1.00	0.00	O
ATOM	4371	OE2	GLU	460	55.841	79.582	52.433	1.00	0.00	O
ATOM	4372	C	GLU	460	55.839	75.633	54.214	1.00	0.00	C
ATOM	4373	O	GLU	460	55.553	74.578	54.781	1.00	0.00	O
ATOM	4374	N	ASN	461	56.835	76.419	54.682	1.00	0.00	N
ATOM	4375	HN	ASN	461	57.032	77.330	54.268	1.00	0.00	H
ATOM	4376	CA	ASN	461	57.606	75.916	55.789	1.00	0.00	C
ATOM	4377	CB	ASN	461	59.024	76.507	55.897	1.00	0.00	C
ATOM	4378	CG	ASN	461	58.895	77.990	56.210	1.00	0.00	C
ATOM	4379	OD1	ASN	461	58.906	78.390	57.373	1.00	0.00	O
ATOM	4380	ND2	ASN	461	58.766	78.830	55.147	1.00	0.00	N
ATOM	4381	1HD2	ASN	461	58.679	79.824	55.357	1.00	0.00	H
ATOM	4382	2HD2	ASN	461	58.757	78.498	54.182	1.00	0.00	H
ATOM	4383	C	ASN	461	56.878	76.266	57.056	1.00	0.00	C
ATOM	4384	O	ASN	461	56.412	77.392	57.219	1.00	0.00	O
ATOM	4385	N	VAL	462	56.744	75.299	57.989	1.00	0.00	N
ATOM	4386	HN	VAL	462	57.120	74.367	57.813	1.00	0.00	H
ATOM	4387	CA	VAL	462	56.073	75.579	59.230	1.00	0.00	C
ATOM	4388	CB	VAL	462	54.703	76.156	59.017	1.00	0.00	C
ATOM	4389	CG1	VAL	462	53.895	75.175	58.149	1.00	0.00	C
ATOM	4390	CG2	VAL	462	54.065	76.446	60.386	1.00	0.00	C
ATOM	4391	C	VAL	462	55.921	74.281	59.960	1.00	0.00	C
ATOM	4392	O	VAL	462	55.617	73.253	59.357	1.00	0.00	O
ATOM	4393	N	THR	463	56.101	74.286	61.293	1.00	0.00	N
ATOM	4394	HN	THR	463	56.299	75.153	61.793	1.00	0.00	H
ATOM	4395	CA	THR	463	56.006	73.038	61.989	1.00	0.00	C
ATOM	4396	CB	THR	463	57.068	72.852	63.027	1.00	0.00	C
ATOM	4397	OG1	THR	463	57.090	71.505	63.468	1.00	0.00	O
ATOM	4398	HG1	THR	463	57.764	71.387	64.127	1.00	0.00	H
ATOM	4399	CG2	THR	463	56.784	73.789	64.200	1.00	0.00	C
ATOM	4400	C	THR	463	54.653	72.908	62.618	1.00	0.00	C
ATOM	4401	O	THR	463	53.998	73.890	62.961	1.00	0.00	O
ATOM	4402	N	MET	464	54.249	71.649	62.854	1.00	0.00	N
ATOM	4403	HN	MET	464	54.919	70.902	62.673	1.00	0.00	H
ATOM	4404	CA	MET	464	52.956	71.268	63.338	1.00	0.00	C
ATOM	4405	CB	MET	464	52.781	69.739	63.437	1.00	0.00	C
ATOM	4406	CG	MET	464	53.696	69.039	64.446	1.00	0.00	C
ATOM	4407	SD	MET	464	53.238	69.251	66.193	1.00	0.00	S
ATOM	4408	CE	MET	464	51.684	68.323	66.052	1.00	0.00	C
ATOM	4409	C	MET	464	52.744	71.876	64.678	1.00	0.00	C
ATOM	4410	O	MET	464	51.603	72.054	65.090	1.00	0.00	O
ATOM	4411	N	ASP	465	53.808	72.150	65.449	1.00	0.00	N
ATOM	4412	HN	ASP	465	54.764	71.936	65.166	1.00	0.00	H
ATOM	4413	CA	ASP	465	53.490	72.768	66.701	1.00	0.00	C
ATOM	4414	CB	ASP	465	54.653	72.903	67.713	1.00	0.00	C
ATOM	4415	CG	ASP	465	55.738	73.860	67.253	1.00	0.00	C
ATOM	4416	OD1	ASP	465	55.492	75.095	67.274	1.00	0.00	O
ATOM	4417	OD2	ASP	465	56.841	73.362	66.905	1.00	0.00	O
ATOM	4418	C	ASP	465	52.880	74.101	66.393	1.00	0.00	C
ATOM	4419	O	ASP	465	51.962	74.538	67.085	1.00	0.00	O
ATOM	4420	N	GLU	466	53.367	74.787	65.336	1.00	0.00	N
ATOM	4421	HN	GLU	466	54.156	74.421	64.803	1.00	0.00	H
ATOM	4422	CA	GLU	466	52.763	76.036	64.971	1.00	0.00	C
ATOM	4423	CB	GLU	466	53.457	76.781	63.816	1.00	0.00	C
ATOM	4424	CG	GLU	466	54.707	77.557	64.222	1.00	0.00	C
ATOM	4425	CD	GLU	466	55.898	76.620	64.165	1.00	0.00	C
ATOM	4426	OE1	GLU	466	56.290	76.230	63.034	1.00	0.00	O
ATOM	4427	OE2	GLU	466	56.440	76.291	65.252	1.00	0.00	O
ATOM	4428	C	GLU	466	51.363	75.785	64.506	1.00	0.00	C
ATOM	4429	O	GLU	466	50.437	76.483	64.914	1.00	0.00	O
ATOM	4430	N	ILE	467	51.159	74.757	63.659	1.00	0.00	N
ATOM	4431	HN	ILE	467	51.935	74.156	63.382	1.00	0.00	H
ATOM	4432	CA	ILE	467	49.839	74.517	63.150	1.00	0.00	C
ATOM	4433	CB	ILE	467	49.739	73.332	62.228	1.00	0.00	C
ATOM	4434	CG1	ILE	467	50.507	73.571	60.918	1.00	0.00	C
ATOM	4435	CG2	ILE	467	48.243	73.050	62.006	1.00	0.00	C
ATOM	4436	CD1	ILE	467	52.024	73.603	61.080	1.00	0.00	C
ATOM	4437	C	ILE	467	48.936	74.235	64.304	1.00	0.00	C

ATOM	4438	O	ILE	467	47.821	74.746	64.366	1.00	0.00	O
ATOM	4439	N	GLU	468	49.413	73.434	65.270	1.00	0.00	N
ATOM	4440	HN	GLU	468	50.368	73.083	65.201	1.00	0.00	H
ATOM	4441	CA	GLU	468	48.612	73.063	66.393	1.00	0.00	C
ATOM	4442	CB	GLU	468	49.391	72.255	67.443	1.00	0.00	C
ATOM	4443	CG	GLU	468	48.546	71.853	68.654	1.00	0.00	C
ATOM	4444	CD	GLU	468	49.438	71.065	69.602	1.00	0.00	C
ATOM	4445	OE1	GLU	468	50.611	70.803	69.223	1.00	0.00	O
ATOM	4446	OE2	GLU	468	48.960	70.719	70.716	1.00	0.00	O
ATOM	4447	C	GLU	468	48.176	74.331	67.041	1.00	0.00	C
ATOM	4448	O	GLU	468	46.996	74.521	67.324	1.00	0.00	O
ATOM	4449	N	LYS	469	49.117	75.266	67.231	1.00	0.00	N
ATOM	4450	HN	LYS	469	50.079	75.099	66.936	1.00	0.00	H
ATOM	4451	CA	LYS	469	48.754	76.498	67.851	1.00	0.00	C
ATOM	4452	CB	LYS	469	49.947	77.460	68.004	1.00	0.00	C
ATOM	4453	CG	LYS	469	49.671	78.681	68.887	1.00	0.00	C
ATOM	4454	CD	LYS	469	48.572	79.613	68.370	1.00	0.00	C
ATOM	4455	CE	LYS	469	48.945	80.364	67.093	1.00	0.00	C
ATOM	4456	NZ	LYS	469	47.827	81.235	66.674	1.00	0.00	N
ATOM	4457	HZ1	LYS	469	48.076	81.736	65.821	1.00	0.00	H
ATOM	4458	HZ2	LYS	469	47.536	81.868	67.419	1.00	0.00	H
ATOM	4459	HZ3	LYS	469	46.955	80.715	66.571	1.00	0.00	H
ATOM	4460	C	LYS	469	47.747	77.156	66.966	1.00	0.00	C
ATOM	4461	O	LYS	469	46.704	77.612	67.432	1.00	0.00	O
ATOM	4462	N	ALA	470	48.001	77.155	65.643	1.00	0.00	N
ATOM	4463	HN	ALA	470	48.795	76.631	65.274	1.00	0.00	H
ATOM	4464	CA	ALA	470	47.151	77.893	64.756	1.00	0.00	C
ATOM	4465	CB	ALA	470	47.573	77.760	63.283	1.00	0.00	C
ATOM	4466	C	ALA	470	45.740	77.401	64.864	1.00	0.00	C
ATOM	4467	O	ALA	470	44.828	78.187	65.114	1.00	0.00	O
ATOM	4468	N	VAL	471	45.525	76.077	64.768	1.00	0.00	N
ATOM	4469	HN	VAL	471	46.314	75.435	64.695	1.00	0.00	H
ATOM	4470	CA	VAL	471	44.184	75.570	64.768	1.00	0.00	C
ATOM	4471	CB	VAL	471	44.116	74.074	64.636	1.00	0.00	C
ATOM	4472	CG1	VAL	471	44.597	73.686	63.229	1.00	0.00	C
ATOM	4473	CG2	VAL	471	44.950	73.434	65.758	1.00	0.00	C
ATOM	4474	C	VAL	471	43.502	75.951	66.038	1.00	0.00	C
ATOM	4475	O	VAL	471	42.407	76.509	66.005	1.00	0.00	O
ATOM	4476	N	LYS	472	44.163	75.736	67.190	1.00	0.00	N
ATOM	4477	HN	LYS	472	45.121	75.386	67.166	1.00	0.00	H
ATOM	4478	CA	LYS	472	43.531	75.995	68.452	1.00	0.00	C
ATOM	4479	CB	LYS	472	44.454	75.799	69.666	1.00	0.00	C
ATOM	4480	CG	LYS	472	44.698	74.342	70.056	1.00	0.00	C
ATOM	4481	CD	LYS	472	45.832	74.186	71.071	1.00	0.00	C
ATOM	4482	CE	LYS	472	45.966	72.775	71.644	1.00	0.00	C
ATOM	4483	NZ	LYS	472	46.186	71.798	70.555	1.00	0.00	N
ATOM	4484	HZ1	LYS	472	46.275	70.857	70.937	1.00	0.00	H
ATOM	4485	HZ2	LYS	472	46.985	72.050	69.973	1.00	0.00	H
ATOM	4486	HZ3	LYS	472	45.458	71.852	69.843	1.00	0.00	H
ATOM	4487	C	LYS	472	43.104	77.426	68.482	1.00	0.00	C
ATOM	4488	O	LYS	472	42.035	77.741	69.001	1.00	0.00	O
ATOM	4489	N	GLU	473	43.923	78.331	67.916	1.00	0.00	N
ATOM	4490	HN	GLU	473	44.788	78.032	67.465	1.00	0.00	H
ATOM	4491	CA	GLU	473	43.567	79.722	67.953	1.00	0.00	C
ATOM	4492	CB	GLU	473	44.620	80.640	67.304	1.00	0.00	C
ATOM	4493	CG	GLU	473	44.388	82.123	67.607	1.00	0.00	C
ATOM	4494	CD	GLU	473	45.257	82.957	66.676	1.00	0.00	C
ATOM	4495	OE1	GLU	473	44.856	83.125	65.494	1.00	0.00	O
ATOM	4496	OE2	GLU	473	46.328	83.439	67.131	1.00	0.00	O
ATOM	4497	C	GLU	473	42.288	79.911	67.185	1.00	0.00	C
ATOM	4498	O	GLU	473	41.398	80.659	67.583	1.00	0.00	O
ATOM	4499	N	ALA	474	42.210	79.221	66.039	1.00	0.00	N
ATOM	4500	HN	ALA	474	43.035	78.660	65.828	1.00	0.00	H
ATOM	4501	CA	ALA	474	41.165	79.134	65.056	1.00	0.00	C
ATOM	4502	CB	ALA	474	41.618	78.455	63.750	1.00	0.00	C
ATOM	4503	C	ALA	474	39.984	78.383	65.583	1.00	0.00	C
ATOM	4504	O	ALA	474	39.055	78.120	64.828	1.00	0.00	O
ATOM	4505	N	ASN	475	40.075	77.798	66.788	1.00	0.00	N
ATOM	4506	HN	ASN	475	40.939	77.835	67.329	1.00	0.00	H
ATOM	4507	CA	ASN	475	38.913	77.119	67.289	1.00	0.00	C
ATOM	4508	CB	ASN	475	37.706	78.085	67.212	1.00	0.00	C
ATOM	4509	CG	ASN	475	36.461	77.431	67.756	1.00	0.00	C
ATOM	4510	OD1	ASN	475	36.543	76.382	68.387	1.00	0.00	O
ATOM	4511	ND2	ASN	475	35.278	78.038	67.472	1.00	0.00	N

ATOM	4512	1HD2	ASN	475	35.210	78.910	66.947	1.00	0.00	H
ATOM	4513	2HD2	ASN	475	34.436	77.596	67.840	1.00	0.00	H
ATOM	4514	C	ASN	475	38.678	75.906	66.418	1.00	0.00	C
ATOM	4515	O	ASN	475	37.557	75.426	66.270	1.00	0.00	O
ATOM	4516	N	ALA	476	39.736	75.463	65.715	1.00	0.00	N
ATOM	4517	HN	ALA	476	40.584	76.027	65.771	1.00	0.00	H
ATOM	4518	CA	ALA	476	39.807	74.281	64.890	1.00	0.00	C
ATOM	4519	CB	ALA	476	40.908	74.378	63.822	1.00	0.00	C
ATOM	4520	C	ALA	476	40.063	73.023	65.661	1.00	0.00	C
ATOM	4521	O	ALA	476	39.640	71.935	65.276	1.00	0.00	O
ATOM	4522	N	TYR	477	40.791	73.152	66.779	1.00	0.00	N
ATOM	4523	HN	TYR	477	40.920	74.090	67.157	1.00	0.00	H
ATOM	4524	CA	TYR	477	41.400	72.059	67.478	1.00	0.00	C
ATOM	4525	CB	TYR	477	42.127	72.553	68.740	1.00	0.00	C
ATOM	4526	CG	TYR	477	42.825	71.404	69.373	1.00	0.00	C
ATOM	4527	CD1	TYR	477	43.887	70.801	68.738	1.00	0.00	C
ATOM	4528	CD2	TYR	477	42.443	70.954	70.614	1.00	0.00	C
ATOM	4529	CE1	TYR	477	44.543	69.742	69.319	1.00	0.00	C
ATOM	4530	CE2	TYR	477	43.096	69.898	71.201	1.00	0.00	C
ATOM	4531	CZ	TYR	477	44.145	69.291	70.554	1.00	0.00	C
ATOM	4532	OH	TYR	477	44.812	68.206	71.162	1.00	0.00	O
ATOM	4533	HH	TYR	477	44.537	67.894	72.016	1.00	0.00	H
ATOM	4534	C	TYR	477	40.423	70.978	67.855	1.00	0.00	C
ATOM	4535	O	TYR	477	40.792	69.806	67.868	1.00	0.00	O
ATOM	4536	N	ASP	478	39.178	71.322	68.222	1.00	0.00	N
ATOM	4537	HN	ASP	478	38.892	72.300	68.167	1.00	0.00	H
ATOM	4538	CA	ASP	478	38.239	70.336	68.692	1.00	0.00	C
ATOM	4539	CB	ASP	478	36.876	70.978	68.960	1.00	0.00	C
ATOM	4540	CG	ASP	478	37.158	72.181	69.825	1.00	0.00	C
ATOM	4541	OD1	ASP	478	38.150	72.112	70.594	1.00	0.00	O
ATOM	4542	OD2	ASP	478	36.418	73.192	69.705	1.00	0.00	O
ATOM	4543	C	ASP	478	37.936	69.290	67.659	1.00	0.00	C
ATOM	4544	O	ASP	478	38.252	68.113	67.832	1.00	0.00	O
ATOM	4545	N	PHE	479	37.347	69.719	66.527	1.00	0.00	N
ATOM	4546	HN	PHE	479	37.245	70.722	66.370	1.00	0.00	H
ATOM	4547	CA	PHE	479	36.859	68.804	65.534	1.00	0.00	C
ATOM	4548	CB	PHE	479	36.015	69.459	64.418	1.00	0.00	C
ATOM	4549	CG	PHE	479	36.820	70.426	63.616	1.00	0.00	C
ATOM	4550	CD1	PHE	479	37.644	69.990	62.603	1.00	0.00	C
ATOM	4551	CD2	PHE	479	36.727	71.777	63.862	1.00	0.00	C
ATOM	4552	CE1	PHE	479	38.375	70.889	61.861	1.00	0.00	C
ATOM	4553	CE2	PHE	479	37.456	72.679	63.123	1.00	0.00	C
ATOM	4554	CZ	PHE	479	38.284	72.235	62.120	1.00	0.00	C
ATOM	4555	C	PHE	479	37.991	68.066	64.910	1.00	0.00	C
ATOM	4556	O	PHE	479	37.889	66.873	64.631	1.00	0.00	O
ATOM	4557	N	ILE	480	39.113	68.756	64.679	1.00	0.00	N
ATOM	4558	HN	ILE	480	39.168	69.739	64.946	1.00	0.00	H
ATOM	4559	CA	ILE	480	40.236	68.123	64.060	1.00	0.00	C
ATOM	4560	CB	ILE	480	41.409	69.046	63.940	1.00	0.00	C
ATOM	4561	CG1	ILE	480	41.812	69.506	65.346	1.00	0.00	C
ATOM	4562	CG2	ILE	480	41.048	70.192	62.979	1.00	0.00	C
ATOM	4563	CD1	ILE	480	43.119	70.275	65.414	1.00	0.00	C
ATOM	4564	C	ILE	480	40.632	66.974	64.930	1.00	0.00	C
ATOM	4565	O	ILE	480	41.084	65.949	64.427	1.00	0.00	O
ATOM	4566	N	MET	481	40.556	67.150	66.263	1.00	0.00	N
ATOM	4567	HN	MET	481	40.253	68.052	66.629	1.00	0.00	H
ATOM	4568	CA	MET	481	40.891	66.099	67.181	1.00	0.00	C
ATOM	4569	CB	MET	481	40.947	66.585	68.635	1.00	0.00	C
ATOM	4570	CG	MET	481	42.128	67.515	68.895	1.00	0.00	C
ATOM	4571	SD	MET	481	43.730	66.751	68.510	1.00	0.00	S
ATOM	4572	CE	MET	481	43.440	65.296	69.557	1.00	0.00	C
ATOM	4573	C	MET	481	39.904	64.966	67.145	1.00	0.00	C
ATOM	4574	O	MET	481	40.298	63.804	67.065	1.00	0.00	O
ATOM	4575	N	LYS	482	38.591	65.278	67.200	1.00	0.00	N
ATOM	4576	HN	LYS	482	38.320	66.261	67.195	1.00	0.00	H
ATOM	4577	CA	LYS	482	37.558	64.275	67.265	1.00	0.00	C
ATOM	4578	CB	LYS	482	36.159	64.888	67.463	1.00	0.00	C
ATOM	4579	CG	LYS	482	35.049	63.880	67.780	1.00	0.00	C
ATOM	4580	CD	LYS	482	34.755	62.884	66.657	1.00	0.00	C
ATOM	4581	CE	LYS	482	33.642	61.889	66.995	1.00	0.00	C
ATOM	4582	NZ	LYS	482	33.421	60.969	65.856	1.00	0.00	N
ATOM	4583	HZ1	LYS	482	32.679	60.306	66.081	1.00	0.00	H
ATOM	4584	HZ2	LYS	482	34.281	60.499	65.572	1.00	0.00	H
ATOM	4585	HZ3	LYS	482	33.233	61.472	64.989	1.00	0.00	H

ATOM	4586	C	LYS	482	37.559	63.520	65.985	1.00	0.00	C
ATOM	4587	O	LYS	482	37.475	62.293	65.968	1.00	0.00	O
ATOM	4588	N	LEU	483	37.701	64.259	64.875	1.00	0.00	N
ATOM	4589	HN	LEU	483	37.797	65.271	64.964	1.00	0.00	H
ATOM	4590	CA	LEU	483	37.722	63.676	63.574	1.00	0.00	C
ATOM	4591	CB	LEU	483	38.050	64.727	62.497	1.00	0.00	C
ATOM	4592	CG	LEU	483	38.306	64.183	61.081	1.00	0.00	C
ATOM	4593	CD1	LEU	483	37.113	63.387	60.536	1.00	0.00	C
ATOM	4594	CD2	LEU	483	38.717	65.328	60.140	1.00	0.00	C
ATOM	4595	C	LEU	483	38.792	62.638	63.592	1.00	0.00	C
ATOM	4596	O	LEU	483	39.801	62.765	64.284	1.00	0.00	O
ATOM	4597	N	PRO	484	38.567	61.585	62.861	1.00	0.00	N
ATOM	4598	CA	PRO	484	39.505	60.502	62.857	1.00	0.00	C
ATOM	4599	CD	PRO	484	37.213	61.141	62.568	1.00	0.00	C
ATOM	4600	CB	PRO	484	38.806	59.354	62.135	1.00	0.00	C
ATOM	4601	CG	PRO	484	37.314	59.617	62.401	1.00	0.00	C
ATOM	4602	C	PRO	484	40.753	60.952	62.200	1.00	0.00	C
ATOM	4603	O	PRO	484	40.740	62.037	61.641	1.00	0.00	O
ATOM	4604	N	HIS	485	41.845	60.183	62.352	1.00	0.00	N
ATOM	4605	HN	HIS	485	41.768	59.397	62.997	1.00	0.00	H
ATOM	4606	CA	HIS	485	43.111	60.360	61.695	1.00	0.00	C
ATOM	4607	ND1	HIS	485	43.187	57.994	59.317	1.00	0.00	N
ATOM	4608	HD1	HIS	485	44.187	57.879	59.484	1.00	0.00	H
ATOM	4609	CG	HIS	485	42.433	59.117	59.579	1.00	0.00	C
ATOM	4610	CB	HIS	485	42.981	60.385	60.161	1.00	0.00	C
ATOM	4611	NE2	HIS	485	41.103	57.520	58.701	1.00	0.00	N
ATOM	4612	HE2	HIS	485	40.285	57.026	58.344	1.00	0.00	H
ATOM	4613	CD2	HIS	485	41.163	58.810	59.197	1.00	0.00	C
ATOM	4614	CE1	HIS	485	42.341	57.071	58.793	1.00	0.00	C
ATOM	4615	C	HIS	485	43.821	61.622	62.089	1.00	0.00	C
ATOM	4616	O	HIS	485	44.981	61.787	61.714	1.00	0.00	O
ATOM	4617	N	LYS	486	43.206	62.509	62.897	1.00	0.00	N
ATOM	4618	HN	LYS	486	42.238	62.360	63.181	1.00	0.00	H
ATOM	4619	CA	LYS	486	43.928	63.671	63.357	1.00	0.00	C
ATOM	4620	CB	LYS	486	45.314	63.339	63.941	1.00	0.00	C
ATOM	4621	CG	LYS	486	45.270	62.322	65.083	1.00	0.00	C
ATOM	4622	CD	LYS	486	44.453	62.781	66.291	1.00	0.00	C
ATOM	4623	CE	LYS	486	44.318	61.708	67.373	1.00	0.00	C
ATOM	4624	NZ	LYS	486	45.655	61.350	67.898	1.00	0.00	N
ATOM	4625	HZ1	LYS	486	45.565	60.635	68.619	1.00	0.00	H
ATOM	4626	HZ2	LYS	486	46.167	62.167	68.231	1.00	0.00	H
ATOM	4627	HZ3	LYS	486	46.294	61.067	67.156	1.00	0.00	H
ATOM	4628	C	LYS	486	44.131	64.681	62.260	1.00	0.00	C
ATOM	4629	O	LYS	486	43.289	64.891	61.394	1.00	0.00	O
ATOM	4630	N	PHE	487	45.273	65.391	62.319	1.00	0.00	N
ATOM	4631	HN	PHE	487	45.916	65.190	63.085	1.00	0.00	H
ATOM	4632	CA	PHE	487	45.652	66.413	61.380	1.00	0.00	C
ATOM	4633	CB	PHE	487	46.930	67.170	61.780	1.00	0.00	C
ATOM	4634	CG	PHE	487	46.600	68.045	62.941	1.00	0.00	C
ATOM	4635	CD1	PHE	487	45.945	69.238	62.737	1.00	0.00	C
ATOM	4636	CD2	PHE	487	46.950	67.686	64.223	1.00	0.00	C
ATOM	4637	CE1	PHE	487	45.639	70.061	63.796	1.00	0.00	C
ATOM	4638	CE2	PHE	487	46.646	68.506	65.285	1.00	0.00	C
ATOM	4639	CZ	PHE	487	45.990	69.695	65.073	1.00	0.00	C
ATOM	4640	C	PHE	487	45.903	65.800	60.049	1.00	0.00	C
ATOM	4641	O	PHE	487	45.706	66.442	59.019	1.00	0.00	O
ATOM	4642	N	ASP	488	46.388	64.548	60.073	1.00	0.00	N
ATOM	4643	HN	ASP	488	46.502	64.122	60.993	1.00	0.00	H
ATOM	4644	CA	ASP	488	46.763	63.745	58.947	1.00	0.00	C
ATOM	4645	CB	ASP	488	47.433	62.427	59.361	1.00	0.00	C
ATOM	4646	CG	ASP	488	48.777	62.764	59.991	1.00	0.00	C
ATOM	4647	OD1	ASP	488	49.103	63.976	60.107	1.00	0.00	O
ATOM	4648	OD2	ASP	488	49.497	61.805	60.372	1.00	0.00	O
ATOM	4649	C	ASP	488	45.553	63.409	58.134	1.00	0.00	C
ATOM	4650	O	ASP	488	45.695	62.902	57.021	1.00	0.00	O
ATOM	4651	N	THR	489	44.339	63.616	58.691	1.00	0.00	N
ATOM	4652	HN	THR	489	44.277	64.008	59.631	1.00	0.00	H
ATOM	4653	CA	THR	489	43.134	63.291	57.976	1.00	0.00	C
ATOM	4654	CB	THR	489	41.872	63.870	58.526	1.00	0.00	C
ATOM	4655	OG1	THR	489	41.750	63.537	59.882	1.00	0.00	O
ATOM	4656	HG1	THR	489	40.947	63.905	60.232	1.00	0.00	H
ATOM	4657	CG2	THR	489	40.671	63.277	57.766	1.00	0.00	C
ATOM	4658	C	THR	489	43.217	63.980	56.659	1.00	0.00	C
ATOM	4659	O	THR	489	43.885	65.003	56.529	1.00	0.00	O

ATOM	4660	N	LEU	490	42.534	63.410	55.651	1.00	0.00	N
ATOM	4661	HN	LEU	490	41.988	62.572	55.850	1.00	0.00	H
ATOM	4662	CA	LEU	490	42.533	63.918	54.312	1.00	0.00	C
ATOM	4663	CB	LEU	490	42.594	62.813	53.240	1.00	0.00	C
ATOM	4664	CG	LEU	490	41.650	61.613	53.483	1.00	0.00	C
ATOM	4665	CD1	LEU	490	42.095	60.789	54.702	1.00	0.00	C
ATOM	4666	CD2	LEU	490	40.174	62.035	53.549	1.00	0.00	C
ATOM	4667	C	LEU	490	41.292	64.710	54.086	1.00	0.00	C
ATOM	4668	O	LEU	490	40.604	65.074	55.038	1.00	0.00	O
ATOM	4669	N	VAL	491	41.021	65.085	52.816	1.00	0.00	N
ATOM	4670	HN	VAL	491	41.657	64.879	52.045	1.00	0.00	H
ATOM	4671	CA	VAL	491	39.794	65.786	52.616	1.00	0.00	C
ATOM	4672	CB	VAL	491	39.985	67.282	52.602	1.00	0.00	C
ATOM	4673	CG1	VAL	491	40.896	67.706	51.440	1.00	0.00	C
ATOM	4674	CG2	VAL	491	38.600	67.934	52.608	1.00	0.00	C
ATOM	4675	C	VAL	491	39.094	65.310	51.371	1.00	0.00	C
ATOM	4676	O	VAL	491	39.082	65.991	50.349	1.00	0.00	O
ATOM	4677	N	GLY	492	38.561	64.070	51.430	1.00	0.00	N
ATOM	4678	HN	GLY	492	38.869	63.492	52.212	1.00	0.00	H
ATOM	4679	CA	GLY	492	37.614	63.457	50.533	1.00	0.00	C
ATOM	4680	C	GLY	492	37.550	64.074	49.169	1.00	0.00	C
ATOM	4681	O	GLY	492	36.458	64.426	48.728	1.00	0.00	O
ATOM	4682	N	GLU	493	38.675	64.185	48.442	1.00	0.00	N
ATOM	4683	HN	GLU	493	39.568	63.873	48.823	1.00	0.00	H
ATOM	4684	CA	GLU	493	38.604	64.749	47.122	1.00	0.00	C
ATOM	4685	CB	GLU	493	37.902	63.817	46.120	1.00	0.00	C
ATOM	4686	CG	GLU	493	38.692	62.549	45.797	1.00	0.00	C
ATOM	4687	CD	GLU	493	39.616	62.868	44.632	1.00	0.00	C
ATOM	4688	OE1	GLU	493	39.089	63.248	43.552	1.00	0.00	O
ATOM	4689	OE2	GLU	493	40.857	62.738	44.804	1.00	0.00	O
ATOM	4690	C	GLU	493	37.890	66.066	47.071	1.00	0.00	C
ATOM	4691	O	GLU	493	36.695	66.123	46.793	1.00	0.00	O
ATOM	4692	N	ARG	494	38.610	67.152	47.422	1.00	0.00	N
ATOM	4693	HN	ARG	494	39.560	66.999	47.759	1.00	0.00	H
ATOM	4694	CA	ARG	494	38.139	68.507	47.357	1.00	0.00	C
ATOM	4695	CB	ARG	494	37.025	68.794	46.327	1.00	0.00	C
ATOM	4696	CG	ARG	494	36.942	70.265	45.892	1.00	0.00	C
ATOM	4697	CD	ARG	494	35.790	71.067	46.506	1.00	0.00	C
ATOM	4698	NE	ARG	494	35.809	72.431	45.895	1.00	0.00	N
ATOM	4699	HE	ARG	494	35.512	72.553	44.927	1.00	0.00	H
ATOM	4700	CZ	ARG	494	36.219	73.516	46.616	1.00	0.00	C
ATOM	4701	NH1	ARG	494	36.581	73.371	47.924	1.00	0.00	N
ATOM	4702	1HH1	ARG	494	36.887	74.181	48.462	1.00	0.00	H
ATOM	4703	2HH1	ARG	494	36.558	72.448	48.358	1.00	0.00	H
ATOM	4704	NH2	ARG	494	36.250	74.752	46.034	1.00	0.00	N
ATOM	4705	1HH2	ARG	494	36.556	75.562	46.572	1.00	0.00	H
ATOM	4706	2HH2	ARG	494	35.979	74.860	45.057	1.00	0.00	H
ATOM	4707	C	ARG	494	37.677	68.849	48.710	1.00	0.00	C
ATOM	4708	O	ARG	494	37.819	68.076	49.651	1.00	0.00	O
ATOM	4709	N	GLY	495	37.085	70.032	48.815	1.00	0.00	N
ATOM	4710	HN	GLY	495	36.965	70.586	47.967	1.00	0.00	H
ATOM	4711	CA	GLY	495	36.608	70.573	50.040	1.00	0.00	C
ATOM	4712	C	GLY	495	35.525	69.705	50.601	1.00	0.00	C
ATOM	4713	O	GLY	495	35.038	70.006	51.683	1.00	0.00	O
ATOM	4714	N	ALA	496	34.998	68.702	49.864	1.00	0.00	N
ATOM	4715	HN	ALA	496	35.390	68.416	48.967	1.00	0.00	H
ATOM	4716	CA	ALA	496	33.838	68.067	50.444	1.00	0.00	C
ATOM	4717	CB	ALA	496	32.816	67.649	49.375	1.00	0.00	C
ATOM	4718	C	ALA	496	34.091	66.847	51.290	1.00	0.00	C
ATOM	4719	O	ALA	496	34.039	65.723	50.794	1.00	0.00	O
ATOM	4720	N	GLN	497	34.556	67.002	52.545	1.00	0.00	N
ATOM	4721	HN	GLN	497	35.010	67.880	52.797	1.00	0.00	H
ATOM	4722	CA	GLN	497	34.433	65.972	53.540	1.00	0.00	C
ATOM	4723	CB	GLN	497	35.795	65.536	54.085	1.00	0.00	C
ATOM	4724	CG	GLN	497	36.578	66.638	54.791	1.00	0.00	C
ATOM	4725	CD	GLN	497	37.869	65.983	55.236	1.00	0.00	C
ATOM	4726	OE1	GLN	497	38.086	64.804	54.964	1.00	0.00	O
ATOM	4727	NE2	GLN	497	38.746	66.751	55.936	1.00	0.00	N
ATOM	4728	1HE2	GLN	497	39.615	66.310	56.236	1.00	0.00	H
ATOM	4729	2HE2	GLN	497	38.566	67.729	56.162	1.00	0.00	H
ATOM	4730	C	GLN	497	33.544	66.404	54.680	1.00	0.00	C
ATOM	4731	O	GLN	497	32.795	65.615	55.258	1.00	0.00	O
ATOM	4732	N	LEU	498	33.645	67.709	55.029	1.00	0.00	N
ATOM	4733	HN	LEU	498	34.121	68.348	54.392	1.00	0.00	H

ATOM	4734	CA	LEU	498	33.110	68.236	56.259	1.00	0.00	C
ATOM	4735	CB	LEU	498	34.238	68.463	57.278	1.00	0.00	C
ATOM	4736	CG	LEU	498	35.488	69.110	56.644	1.00	0.00	C
ATOM	4737	CD1	LEU	498	35.307	70.615	56.402	1.00	0.00	C
ATOM	4738	CD2	LEU	498	36.766	68.746	57.405	1.00	0.00	C
ATOM	4739	C	LEU	498	32.347	69.512	56.046	1.00	0.00	C
ATOM	4740	O	LEU	498	32.240	70.022	54.932	1.00	0.00	O
ATOM	4741	N	SER	499	31.780	70.046	57.153	1.00	0.00	N
ATOM	4742	HN	SER	499	31.963	69.599	58.051	1.00	0.00	H
ATOM	4743	CA	SER	499	30.934	71.209	57.132	1.00	0.00	C
ATOM	4744	CB	SER	499	30.413	71.629	58.513	1.00	0.00	C
ATOM	4745	OG	SER	499	29.662	70.586	59.103	1.00	0.00	O
ATOM	4746	HG	SER	499	29.339	70.846	59.958	1.00	0.00	H
ATOM	4747	C	SER	499	31.694	72.404	56.673	1.00	0.00	C
ATOM	4748	O	SER	499	32.836	72.635	57.065	1.00	0.00	O
ATOM	4749	N	GLY	500	31.001	73.254	55.897	1.00	0.00	N
ATOM	4750	HN	GLY	500	30.032	73.031	55.670	1.00	0.00	H
ATOM	4751	CA	GLY	500	31.569	74.460	55.376	1.00	0.00	C
ATOM	4752	C	GLY	500	31.999	75.244	56.562	1.00	0.00	C
ATOM	4753	O	GLY	500	32.936	76.039	56.498	1.00	0.00	O
ATOM	4754	N	GLY	501	31.284	75.063	57.684	1.00	0.00	N
ATOM	4755	HN	GLY	501	30.508	74.402	57.714	1.00	0.00	H
ATOM	4756	CA	GLY	501	31.647	75.828	58.833	1.00	0.00	C
ATOM	4757	C	GLY	501	33.068	75.511	59.190	1.00	0.00	C
ATOM	4758	O	GLY	501	33.890	76.414	59.313	1.00	0.00	O
ATOM	4759	N	GLN	502	33.412	74.217	59.311	1.00	0.00	N
ATOM	4760	HN	GLN	502	32.712	73.498	59.128	1.00	0.00	H
ATOM	4761	CA	GLN	502	34.739	73.822	59.691	1.00	0.00	C
ATOM	4762	CB	GLN	502	34.839	72.302	59.865	1.00	0.00	C
ATOM	4763	CG	GLN	502	33.966	71.782	61.007	1.00	0.00	C
ATOM	4764	CD	GLN	502	33.816	70.280	60.828	1.00	0.00	C
ATOM	4765	OE1	GLN	502	33.383	69.813	59.776	1.00	0.00	O
ATOM	4766	NE2	GLN	502	34.184	69.499	61.879	1.00	0.00	N
ATOM	4767	1HE2	GLN	502	34.083	68.491	61.759	1.00	0.00	H
ATOM	4768	2HE2	GLN	502	34.543	69.886	62.752	1.00	0.00	H
ATOM	4769	C	GLN	502	35.684	74.230	58.612	1.00	0.00	C
ATOM	4770	O	GLN	502	36.792	74.689	58.890	1.00	0.00	O
ATOM	4771	N	LYS	503	35.251	74.096	57.344	1.00	0.00	N
ATOM	4772	HN	LYS	503	34.298	73.778	57.166	1.00	0.00	H
ATOM	4773	CA	LYS	503	36.118	74.397	56.243	1.00	0.00	C
ATOM	4774	CB	LYS	503	35.402	74.322	54.883	1.00	0.00	C
ATOM	4775	CG	LYS	503	34.907	72.922	54.521	1.00	0.00	C
ATOM	4776	CD	LYS	503	33.884	72.929	53.385	1.00	0.00	C
ATOM	4777	CE	LYS	503	34.483	72.668	52.002	1.00	0.00	C
ATOM	4778	NZ	LYS	503	35.535	73.656	51.694	1.00	0.00	N
ATOM	4779	HZ1	LYS	503	35.934	73.482	50.772	1.00	0.00	H
ATOM	4780	HZ2	LYS	503	36.253	73.682	52.418	1.00	0.00	H
ATOM	4781	HZ3	LYS	503	35.193	74.613	51.783	1.00	0.00	H
ATOM	4782	C	LYS	503	36.590	75.804	56.413	1.00	0.00	C
ATOM	4783	O	LYS	503	37.790	76.062	56.495	1.00	0.00	O
ATOM	4784	N	GLN	504	35.640	76.731	56.611	1.00	0.00	N
ATOM	4785	HN	GLN	504	34.662	76.446	56.668	1.00	0.00	H
ATOM	4786	CA	GLN	504	35.981	78.115	56.743	1.00	0.00	C
ATOM	4787	CB	GLN	504	34.759	79.000	57.040	1.00	0.00	C
ATOM	4788	CG	GLN	504	35.110	80.478	57.223	1.00	0.00	C
ATOM	4789	CD	GLN	504	35.781	80.967	55.949	1.00	0.00	C
ATOM	4790	OE1	GLN	504	37.006	80.969	55.842	1.00	0.00	O
ATOM	4791	NE2	GLN	504	34.958	81.389	54.952	1.00	0.00	N
ATOM	4792	1HE2	GLN	504	33.942	81.387	55.041	1.00	0.00	H
ATOM	4793	2HE2	GLN	504	35.408	81.717	54.097	1.00	0.00	H
ATOM	4794	C	GLN	504	36.925	78.241	57.894	1.00	0.00	C
ATOM	4795	O	GLN	504	37.905	78.983	57.828	1.00	0.00	O
ATOM	4796	N	ARG	505	36.676	77.472	58.967	1.00	0.00	N
ATOM	4797	HN	ARG	505	35.905	76.805	58.943	1.00	0.00	H
ATOM	4798	CA	ARG	505	37.484	77.581	60.143	1.00	0.00	C
ATOM	4799	CB	ARG	505	36.999	76.623	61.248	1.00	0.00	C
ATOM	4800	CG	ARG	505	37.425	77.001	62.667	1.00	0.00	C
ATOM	4801	CD	ARG	505	36.809	76.081	63.722	1.00	0.00	C
ATOM	4802	NE	ARG	505	35.332	76.105	63.526	1.00	0.00	N
ATOM	4803	HE	ARG	505	34.909	76.815	62.929	1.00	0.00	H
ATOM	4804	CZ	ARG	505	34.545	75.177	64.145	1.00	0.00	C
ATOM	4805	NH1	ARG	505	35.100	74.278	65.009	1.00	0.00	N
ATOM	4806	1HH1	ARG	505	34.512	73.585	65.471	1.00	0.00	H
ATOM	4807	2HH1	ARG	505	36.102	74.300	65.196	1.00	0.00	H

ATOM	4808	NH2	ARG	505	33.203	75.147	63.894	1.00	0.00	N
ATOM	4809	1HH2	ARG	505	32.615	74.454	64.356	1.00	0.00	H
ATOM	4810	2HH2	ARG	505	32.788	75.819	63.248	1.00	0.00	H
ATOM	4811	C	ARG	505	38.894	77.236	59.789	1.00	0.00	C
ATOM	4812	O	ARG	505	39.816	78.000	60.070	1.00	0.00	O
ATOM	4813	N	ILE	506	39.083	76.116	59.070	1.00	0.00	N
ATOM	4814	HN	ILE	506	38.274	75.585	58.747	1.00	0.00	H
ATOM	4815	CA	ILE	506	40.404	75.655	58.749	1.00	0.00	C
ATOM	4816	CB	ILE	506	40.391	74.432	57.880	1.00	0.00	C
ATOM	4817	CG1	ILE	506	39.746	73.254	58.632	1.00	0.00	C
ATOM	4818	CG2	ILE	506	41.830	74.161	57.414	1.00	0.00	C
ATOM	4819	CD1	ILE	506	39.421	72.054	57.743	1.00	0.00	C
ATOM	4820	C	ILE	506	41.087	76.752	58.003	1.00	0.00	C
ATOM	4821	O	ILE	506	42.254	77.051	58.255	1.00	0.00	O
ATOM	4822	N	ALA	507	40.346	77.425	57.105	1.00	0.00	N
ATOM	4823	HN	ALA	507	39.357	77.203	56.990	1.00	0.00	H
ATOM	4824	CA	ALA	507	40.946	78.454	56.310	1.00	0.00	C
ATOM	4825	CB	ALA	507	39.944	79.138	55.366	1.00	0.00	C
ATOM	4826	C	ALA	507	41.493	79.505	57.210	1.00	0.00	C
ATOM	4827	O	ALA	507	42.644	79.914	57.070	1.00	0.00	O
ATOM	4828	N	ILE	508	40.702	79.903	58.218	1.00	0.00	N
ATOM	4829	HN	ILE	508	39.801	79.445	58.353	1.00	0.00	H
ATOM	4830	CA	ILE	508	41.089	80.952	59.108	1.00	0.00	C
ATOM	4831	CB	ILE	508	40.084	81.156	60.202	1.00	0.00	C
ATOM	4832	CG1	ILE	508	38.735	81.578	59.593	1.00	0.00	C
ATOM	4833	CG2	ILE	508	40.659	82.168	61.207	1.00	0.00	C
ATOM	4834	CD1	ILE	508	37.563	81.477	60.566	1.00	0.00	C
ATOM	4835	C	ILE	508	42.384	80.549	59.716	1.00	0.00	C
ATOM	4836	O	ILE	508	43.262	81.383	59.911	1.00	0.00	O
ATOM	4837	N	ALA	509	42.542	79.255	60.036	1.00	0.00	N
ATOM	4838	HN	ALA	509	41.780	78.592	59.894	1.00	0.00	H
ATOM	4839	CA	ALA	509	43.794	78.815	60.580	1.00	0.00	C
ATOM	4840	CB	ALA	509	43.805	77.313	60.909	1.00	0.00	C
ATOM	4841	C	ALA	509	44.868	79.053	59.561	1.00	0.00	C
ATOM	4842	O	ALA	509	45.930	79.588	59.876	1.00	0.00	O
ATOM	4843	N	ARG	510	44.601	78.706	58.290	1.00	0.00	N
ATOM	4844	HN	ARG	510	43.682	78.336	58.048	1.00	0.00	H
ATOM	4845	CA	ARG	510	45.603	78.854	57.270	1.00	0.00	C
ATOM	4846	CB	ARG	510	45.060	78.519	55.873	1.00	0.00	C
ATOM	4847	CG	ARG	510	46.090	78.661	54.753	1.00	0.00	C
ATOM	4848	CD	ARG	510	45.455	78.614	53.363	1.00	0.00	C
ATOM	4849	NE	ARG	510	44.726	77.320	53.258	1.00	0.00	N
ATOM	4850	HE	ARG	510	45.180	76.453	53.546	1.00	0.00	H
ATOM	4851	CZ	ARG	510	43.450	77.294	52.776	1.00	0.00	C
ATOM	4852	NH1	ARG	510	42.838	78.455	52.399	1.00	0.00	N
ATOM	4853	1HH1	ARG	510	43.337	79.341	52.474	1.00	0.00	H
ATOM	4854	2HH1	ARG	510	41.884	78.436	52.039	1.00	0.00	H
ATOM	4855	NH2	ARG	510	42.782	76.108	52.675	1.00	0.00	N
ATOM	4856	1HH2	ARG	510	43.239	75.241	52.957	1.00	0.00	H
ATOM	4857	2HH2	ARG	510	41.828	76.089	52.315	1.00	0.00	H
ATOM	4858	C	ARG	510	46.040	80.282	57.231	1.00	0.00	C
ATOM	4859	O	ARG	510	47.221	80.589	57.372	1.00	0.00	O
ATOM	4860	N	ALA	511	45.083	81.208	57.116	1.00	0.00	N
ATOM	4861	HN	ALA	511	44.107	80.918	57.059	1.00	0.00	H
ATOM	4862	CA	ALA	511	45.410	82.601	57.072	1.00	0.00	C
ATOM	4863	CB	ALA	511	44.169	83.501	56.944	1.00	0.00	C
ATOM	4864	C	ALA	511	46.083	82.934	58.362	1.00	0.00	C
ATOM	4865	O	ALA	511	46.971	83.783	58.409	1.00	0.00	O
ATOM	4866	N	LEU	512	45.669	82.266	59.454	1.00	0.00	N
ATOM	4867	HN	LEU	512	44.959	81.540	59.360	1.00	0.00	H
ATOM	4868	CA	LEU	512	46.212	82.561	60.748	1.00	0.00	C
ATOM	4869	CB	LEU	512	45.638	81.722	61.901	1.00	0.00	C
ATOM	4870	CG	LEU	512	44.234	82.149	62.357	1.00	0.00	C
ATOM	4871	CD1	LEU	512	43.792	81.330	63.575	1.00	0.00	C
ATOM	4872	CD2	LEU	512	44.160	83.664	62.605	1.00	0.00	C
ATOM	4873	C	LEU	512	47.692	82.331	60.764	1.00	0.00	C
ATOM	4874	O	LEU	512	48.414	83.112	61.377	1.00	0.00	O
ATOM	4875	N	VAL	513	48.194	81.249	60.136	1.00	0.00	N
ATOM	4876	HN	VAL	513	47.571	80.589	59.670	1.00	0.00	H
ATOM	4877	CA	VAL	513	49.620	81.033	60.129	1.00	0.00	C
ATOM	4878	CB	VAL	513	50.093	79.689	59.627	1.00	0.00	C
ATOM	4879	CG1	VAL	513	49.704	78.614	60.646	1.00	0.00	C
ATOM	4880	CG2	VAL	513	49.547	79.426	58.219	1.00	0.00	C
ATOM	4881	C	VAL	513	50.270	82.092	59.307	1.00	0.00	C

ATOM	4882	O	VAL	513	51.419	82.460	59.543	1.00	0.00	O
ATOM	4883	N	ARG	514	49.549	82.603	58.297	1.00	0.00	N
ATOM	4884	HN	ARG	514	48.618	82.233	58.103	1.00	0.00	H
ATOM	4885	CA	ARG	514	50.074	83.663	57.489	1.00	0.00	C
ATOM	4886	CB	ARG	514	49.052	84.210	56.473	1.00	0.00	C
ATOM	4887	CG	ARG	514	48.507	83.160	55.501	1.00	0.00	C
ATOM	4888	CD	ARG	514	49.546	82.592	54.533	1.00	0.00	C
ATOM	4889	NE	ARG	514	49.793	83.579	53.444	1.00	0.00	N
ATOM	4890	HE	ARG	514	49.090	84.284	53.222	1.00	0.00	H
ATOM	4891	CZ	ARG	514	50.965	83.535	52.744	1.00	0.00	C
ATOM	4892	NH1	ARG	514	51.944	82.657	53.108	1.00	0.00	N
ATOM	4893	1HH1	ARG	514	51.800	82.038	53.906	1.00	0.00	H
ATOM	4894	2HH1	ARG	514	52.819	82.624	52.585	1.00	0.00	H
ATOM	4895	NH2	ARG	514	51.158	84.363	51.677	1.00	0.00	N
ATOM	4896	1HH2	ARG	514	50.426	85.019	51.405	1.00	0.00	H
ATOM	4897	2HH2	ARG	514	52.033	84.330	51.154	1.00	0.00	H
ATOM	4898	C	ARG	514	50.404	84.795	58.433	1.00	0.00	C
ATOM	4899	O	ARG	514	51.405	85.485	58.252	1.00	0.00	O
ATOM	4900	N	ASN	515	49.568	85.003	59.476	1.00	0.00	N
ATOM	4901	HN	ASN	515	48.742	84.409	59.546	1.00	0.00	H
ATOM	4902	CA	ASN	515	49.763	86.012	60.503	1.00	0.00	C
ATOM	4903	CB	ASN	515	50.916	85.702	61.471	1.00	0.00	C
ATOM	4904	CG	ASN	515	50.418	84.729	62.514	1.00	0.00	C
ATOM	4905	OD1	ASN	515	49.293	84.848	62.992	1.00	0.00	O
ATOM	4906	ND2	ASN	515	51.276	83.747	62.894	1.00	0.00	N
ATOM	4907	1HD2	ASN	515	50.940	83.090	63.598	1.00	0.00	H
ATOM	4908	2HD2	ASN	515	52.210	83.648	62.497	1.00	0.00	H
ATOM	4909	C	ASN	515	50.045	87.394	59.987	1.00	0.00	C
ATOM	4910	O	ASN	515	51.167	87.882	60.109	1.00	0.00	O
ATOM	4911	N	PRO	516	49.053	88.028	59.424	1.00	0.00	N
ATOM	4912	CA	PRO	516	49.124	89.366	58.874	1.00	0.00	C
ATOM	4913	CD	PRO	516	47.878	87.311	58.964	1.00	0.00	C
ATOM	4914	CB	PRO	516	48.042	89.423	57.815	1.00	0.00	C
ATOM	4915	CG	PRO	516	47.015	88.382	58.286	1.00	0.00	C
ATOM	4916	C	PRO	516	48.881	90.471	59.864	1.00	0.00	C
ATOM	4917	O	PRO	516	48.683	90.207	61.047	1.00	0.00	O
ATOM	4918	N	LYS	517	49.069	91.726	59.403	1.00	0.00	N
ATOM	4919	HN	LYS	517	49.511	91.803	58.487	1.00	0.00	H
ATOM	4920	CA	LYS	517	48.724	92.967	60.042	1.00	0.00	C
ATOM	4921	CB	LYS	517	49.710	94.094	59.698	1.00	0.00	C
ATOM	4922	CG	LYS	517	51.119	93.797	60.212	1.00	0.00	C
ATOM	4923	CD	LYS	517	51.758	92.590	59.524	1.00	0.00	C
ATOM	4924	CE	LYS	517	53.157	92.254	60.035	1.00	0.00	C
ATOM	4925	NZ	LYS	517	53.686	91.079	59.310	1.00	0.00	N
ATOM	4926	HZ1	LYS	517	54.621	90.855	59.651	1.00	0.00	H
ATOM	4927	HZ2	LYS	517	53.669	91.212	58.299	1.00	0.00	H
ATOM	4928	HZ3	LYS	517	53.055	90.279	59.364	1.00	0.00	H
ATOM	4929	C	LYS	517	47.352	93.427	59.655	1.00	0.00	C
ATOM	4930	O	LYS	517	46.744	94.241	60.349	1.00	0.00	O
ATOM	4931	N	ILE	518	46.877	93.011	58.465	1.00	0.00	N
ATOM	4932	HN	ILE	518	47.427	92.366	57.898	1.00	0.00	H
ATOM	4933	CA	ILE	518	45.605	93.469	57.991	1.00	0.00	C
ATOM	4934	CB	ILE	518	45.722	94.349	56.786	1.00	0.00	C
ATOM	4935	CG1	ILE	518	46.643	95.531	57.128	1.00	0.00	C
ATOM	4936	CG2	ILE	518	44.312	94.796	56.366	1.00	0.00	C
ATOM	4937	CD1	ILE	518	47.090	96.338	55.915	1.00	0.00	C
ATOM	4938	C	ILE	518	44.793	92.263	57.641	1.00	0.00	C
ATOM	4939	O	ILE	518	45.320	91.250	57.182	1.00	0.00	O
ATOM	4940	N	LEU	519	43.471	92.324	57.892	1.00	0.00	N
ATOM	4941	HN	LEU	519	43.045	93.169	58.271	1.00	0.00	H
ATOM	4942	CA	LEU	519	42.684	91.160	57.608	1.00	0.00	C
ATOM	4943	CB	LEU	519	42.234	90.433	58.894	1.00	0.00	C
ATOM	4944	CG	LEU	519	41.684	89.003	58.702	1.00	0.00	C
ATOM	4945	CD1	LEU	519	41.270	88.389	60.049	1.00	0.00	C
ATOM	4946	CD2	LEU	519	40.563	88.931	57.657	1.00	0.00	C
ATOM	4947	C	LEU	519	41.473	91.610	56.850	1.00	0.00	C
ATOM	4948	O	LEU	519	40.779	92.536	57.265	1.00	0.00	O
ATOM	4949	N	LEU	520	41.190	90.976	55.695	1.00	0.00	N
ATOM	4950	HN	LEU	520	41.802	90.234	55.356	1.00	0.00	H
ATOM	4951	CA	LEU	520	40.028	91.346	54.944	1.00	0.00	C
ATOM	4952	CB	LEU	520	40.328	91.664	53.469	1.00	0.00	C
ATOM	4953	CG	LEU	520	41.233	92.893	53.266	1.00	0.00	C
ATOM	4954	CD1	LEU	520	42.595	92.698	53.950	1.00	0.00	C
ATOM	4955	CD2	LEU	520	41.375	93.242	51.775	1.00	0.00	C

ATOM	4956	C	LEU	520	39.103	90.175	54.949	1.00	0.00	C
ATOM	4957	O	LEU	520	39.512	89.042	54.701	1.00	0.00	O
ATOM	4958	N	LEU	521	37.817	90.412	55.258	1.00	0.00	N
ATOM	4959	HN	LEU	521	37.502	91.348	55.512	1.00	0.00	H
ATOM	4960	CA	LEU	521	36.901	89.311	55.220	1.00	0.00	C
ATOM	4961	CB	LEU	521	36.127	89.105	56.533	1.00	0.00	C
ATOM	4962	CG	LEU	521	37.043	88.830	57.739	1.00	0.00	C
ATOM	4963	CD1	LEU	521	37.880	90.071	58.088	1.00	0.00	C
ATOM	4964	CD2	LEU	521	36.252	88.283	58.937	1.00	0.00	C
ATOM	4965	C	LEU	521	35.907	89.636	54.147	1.00	0.00	C
ATOM	4966	O	LEU	521	35.130	90.581	54.275	1.00	0.00	O
ATOM	4967	N	ASP	522	35.902	88.861	53.044	1.00	0.00	N
ATOM	4968	HN	ASP	522	36.549	88.076	52.965	1.00	0.00	H
ATOM	4969	CA	ASP	522	34.982	89.147	51.984	1.00	0.00	C
ATOM	4970	CB	ASP	522	35.570	88.840	50.593	1.00	0.00	C
ATOM	4971	CG	ASP	522	34.755	89.564	49.530	1.00	0.00	C
ATOM	4972	OD1	ASP	522	33.762	90.247	49.898	1.00	0.00	O
ATOM	4973	OD2	ASP	522	35.127	89.450	48.331	1.00	0.00	O
ATOM	4974	C	ASP	522	33.783	88.275	52.184	1.00	0.00	C
ATOM	4975	O	ASP	522	33.622	87.245	51.532	1.00	0.00	O
ATOM	4976	N	GLU	523	32.896	88.691	53.103	1.00	0.00	N
ATOM	4977	HN	GLU	523	33.097	89.540	53.631	1.00	0.00	H
ATOM	4978	CA	GLU	523	31.675	87.983	53.369	1.00	0.00	C
ATOM	4979	CB	GLU	523	30.828	87.831	52.100	1.00	0.00	C
ATOM	4980	CG	GLU	523	30.395	89.173	51.511	1.00	0.00	C
ATOM	4981	CD	GLU	523	29.936	88.921	50.084	1.00	0.00	C
ATOM	4982	OE1	GLU	523	29.497	87.775	49.798	1.00	0.00	O
ATOM	4983	OE2	GLU	523	30.029	89.868	49.259	1.00	0.00	O
ATOM	4984	C	GLU	523	31.960	86.599	53.889	1.00	0.00	C
ATOM	4985	O	GLU	523	31.082	85.736	53.829	1.00	0.00	O
ATOM	4986	N	ALA	524	33.115	86.399	54.563	1.00	0.00	N
ATOM	4987	HN	ALA	524	33.665	87.202	54.867	1.00	0.00	H
ATOM	4988	CA	ALA	524	33.579	85.068	54.858	1.00	0.00	C
ATOM	4989	CB	ALA	524	34.826	85.076	55.756	1.00	0.00	C
ATOM	4990	C	ALA	524	32.542	84.206	55.543	1.00	0.00	C
ATOM	4991	O	ALA	524	32.092	83.240	54.938	1.00	0.00	O
ATOM	4992	N	THR	525	31.985	84.587	56.705	1.00	0.00	N
ATOM	4993	HN	THR	525	32.195	85.510	57.085	1.00	0.00	H
ATOM	4994	CA	THR	525	31.092	83.706	57.425	1.00	0.00	C
ATOM	4995	CB	THR	525	30.550	84.343	58.666	1.00	0.00	C
ATOM	4996	OG1	THR	525	29.780	83.403	59.402	1.00	0.00	O
ATOM	4997	HG1	THR	525	30.318	82.664	59.659	1.00	0.00	H
ATOM	4998	CG2	THR	525	29.679	85.539	58.250	1.00	0.00	C
ATOM	4999	C	THR	525	29.904	83.322	56.580	1.00	0.00	C
ATOM	5000	O	THR	525	29.362	82.232	56.747	1.00	0.00	O
ATOM	5001	N	SER	526	29.481	84.196	55.646	1.00	0.00	N
ATOM	5002	HN	SER	526	30.048	85.030	55.493	1.00	0.00	H
ATOM	5003	CA	SER	526	28.287	84.047	54.842	1.00	0.00	C
ATOM	5004	CB	SER	526	28.185	85.086	53.710	1.00	0.00	C
ATOM	5005	OG	SER	526	28.061	86.394	54.248	1.00	0.00	O
ATOM	5006	HG	SER	526	27.998	87.035	53.550	1.00	0.00	H
ATOM	5007	C	SER	526	28.130	82.693	54.220	1.00	0.00	C
ATOM	5008	O	SER	526	29.011	81.838	54.271	1.00	0.00	O
ATOM	5009	N	ALA	527	26.923	82.468	53.652	1.00	0.00	N
ATOM	5010	HN	ALA	527	26.226	83.211	53.693	1.00	0.00	H
ATOM	5011	CA	ALA	527	26.569	81.242	52.995	1.00	0.00	C
ATOM	5012	CB	ALA	527	27.315	81.022	51.669	1.00	0.00	C
ATOM	5013	C	ALA	527	26.897	80.117	53.918	1.00	0.00	C
ATOM	5014	O	ALA	527	27.544	79.150	53.522	1.00	0.00	O
ATOM	5015	N	LEU	528	26.470	80.236	55.188	1.00	0.00	N
ATOM	5016	HN	LEU	528	25.946	81.066	55.466	1.00	0.00	H
ATOM	5017	CA	LEU	528	26.741	79.214	56.157	1.00	0.00	C
ATOM	5018	CB	LEU	528	28.136	79.453	56.778	1.00	0.00	C
ATOM	5019	CG	LEU	528	28.628	78.469	57.845	1.00	0.00	C
ATOM	5020	CD1	LEU	528	30.132	78.656	58.103	1.00	0.00	C
ATOM	5021	CD2	LEU	528	27.855	78.663	59.139	1.00	0.00	C
ATOM	5022	C	LEU	528	25.610	79.283	57.149	1.00	0.00	C
ATOM	5023	O	LEU	528	24.921	80.297	57.241	1.00	0.00	O
ATOM	5024	N	ASP	529	25.355	78.202	57.914	1.00	0.00	N
ATOM	5025	HN	ASP	529	25.960	77.382	57.864	1.00	0.00	H
ATOM	5026	CA	ASP	529	24.220	78.215	58.803	1.00	0.00	C
ATOM	5027	CB	ASP	529	23.931	76.861	59.470	1.00	0.00	C
ATOM	5028	CG	ASP	529	25.139	76.491	60.307	1.00	0.00	C
ATOM	5029	OD1	ASP	529	26.144	76.018	59.713	1.00	0.00	O

ATOM	5030	OD2	ASP	529	25.069	76.670	61.551	1.00	0.00	O
ATOM	5031	C	ASP	529	24.409	79.254	59.881	1.00	0.00	C
ATOM	5032	O	ASP	529	25.527	79.672	60.168	1.00	0.00	O
ATOM	5033	N	THR	530	23.293	79.710	60.502	1.00	0.00	N
ATOM	5034	HN	THR	530	22.396	79.295	60.250	1.00	0.00	H
ATOM	5035	CA	THR	530	23.307	80.755	61.504	1.00	0.00	C
ATOM	5036	CB	THR	530	21.936	81.053	62.035	1.00	0.00	C
ATOM	5037	OG1	THR	530	21.385	79.895	62.643	1.00	0.00	O
ATOM	5038	HG1	THR	530	21.937	79.610	63.361	1.00	0.00	H
ATOM	5039	CG2	THR	530	21.041	81.515	60.871	1.00	0.00	C
ATOM	5040	C	THR	530	24.162	80.319	62.662	1.00	0.00	C
ATOM	5041	O	THR	530	25.084	81.034	63.046	1.00	0.00	O
ATOM	5042	N	GLU	531	23.942	79.108	63.215	1.00	0.00	N
ATOM	5043	HN	GLU	531	23.295	78.447	62.784	1.00	0.00	H
ATOM	5044	CA	GLU	531	24.641	78.770	64.427	1.00	0.00	C
ATOM	5045	CB	GLU	531	24.243	77.399	65.018	1.00	0.00	C
ATOM	5046	CG	GLU	531	24.715	76.173	64.229	1.00	0.00	C
ATOM	5047	CD	GLU	531	26.124	75.815	64.691	1.00	0.00	C
ATOM	5048	OE1	GLU	531	26.633	76.491	65.625	1.00	0.00	O
ATOM	5049	OE2	GLU	531	26.712	74.860	64.117	1.00	0.00	O
ATOM	5050	C	GLU	531	26.121	78.772	64.197	1.00	0.00	C
ATOM	5051	O	GLU	531	26.874	79.357	64.976	1.00	0.00	O
ATOM	5052	N	SER	532	26.580	78.141	63.104	1.00	0.00	N
ATOM	5053	HN	SER	532	25.927	77.723	62.441	1.00	0.00	H
ATOM	5054	CA	SER	532	27.991	78.058	62.875	1.00	0.00	C
ATOM	5055	CB	SER	532	28.348	77.222	61.646	1.00	0.00	C
ATOM	5056	OG	SER	532	27.730	75.953	61.744	1.00	0.00	O
ATOM	5057	HG	SER	532	27.952	75.433	60.980	1.00	0.00	H
ATOM	5058	C	SER	532	28.489	79.431	62.634	1.00	0.00	C
ATOM	5059	O	SER	532	29.546	79.781	63.148	1.00	0.00	O
ATOM	5060	N	GLU	533	27.701	80.262	61.913	1.00	0.00	N
ATOM	5061	HN	GLU	533	26.773	79.961	61.616	1.00	0.00	H
ATOM	5062	CA	GLU	533	28.179	81.567	61.570	1.00	0.00	C
ATOM	5063	CB	GLU	533	27.238	82.439	60.709	1.00	0.00	C
ATOM	5064	CG	GLU	533	25.985	83.009	61.370	1.00	0.00	C
ATOM	5065	CD	GLU	533	25.304	83.883	60.322	1.00	0.00	C
ATOM	5066	OE1	GLU	533	25.039	83.363	59.205	1.00	0.00	O
ATOM	5067	OE2	GLU	533	25.053	85.083	60.615	1.00	0.00	O
ATOM	5068	C	GLU	533	28.510	82.264	62.845	1.00	0.00	C
ATOM	5069	O	GLU	533	29.394	83.118	62.881	1.00	0.00	O
ATOM	5070	N	ALA	534	27.803	81.915	63.935	1.00	0.00	N
ATOM	5071	HN	ALA	534	27.032	81.251	63.870	1.00	0.00	H
ATOM	5072	CA	ALA	534	28.165	82.503	65.190	1.00	0.00	C
ATOM	5073	CB	ALA	534	27.233	82.071	66.337	1.00	0.00	C
ATOM	5074	C	ALA	534	29.551	82.064	65.567	1.00	0.00	C
ATOM	5075	O	ALA	534	30.434	82.892	65.780	1.00	0.00	O
ATOM	5076	N	VAL	535	29.803	80.740	65.564	1.00	0.00	N
ATOM	5077	HN	VAL	535	29.077	80.100	65.241	1.00	0.00	H
ATOM	5078	CA	VAL	535	31.063	80.199	66.002	1.00	0.00	C
ATOM	5079	CB	VAL	535	31.089	78.701	65.913	1.00	0.00	C
ATOM	5080	CG1	VAL	535	32.465	78.210	66.392	1.00	0.00	C
ATOM	5081	CG2	VAL	535	29.890	78.131	66.692	1.00	0.00	C
ATOM	5082	C	VAL	535	32.144	80.729	65.108	1.00	0.00	C
ATOM	5083	O	VAL	535	33.225	81.088	65.572	1.00	0.00	O
ATOM	5084	N	VAL	536	31.866	80.778	63.791	1.00	0.00	N
ATOM	5085	HN	VAL	536	30.938	80.487	63.482	1.00	0.00	H
ATOM	5086	CA	VAL	536	32.806	81.218	62.799	1.00	0.00	C
ATOM	5087	CB	VAL	536	32.239	81.119	61.411	1.00	0.00	C
ATOM	5088	CG1	VAL	536	33.245	81.719	60.417	1.00	0.00	C
ATOM	5089	CG2	VAL	536	31.882	79.649	61.128	1.00	0.00	C
ATOM	5090	C	VAL	536	33.153	82.652	63.042	1.00	0.00	C
ATOM	5091	O	VAL	536	34.326	83.020	63.076	1.00	0.00	O
ATOM	5092	N	GLN	537	32.136	83.506	63.253	1.00	0.00	N
ATOM	5093	HN	GLN	537	31.172	83.173	63.250	1.00	0.00	H
ATOM	5094	CA	GLN	537	32.424	84.889	63.482	1.00	0.00	C
ATOM	5095	CB	GLN	537	31.178	85.757	63.734	1.00	0.00	C
ATOM	5096	CG	GLN	537	30.398	86.122	62.472	1.00	0.00	C
ATOM	5097	CD	GLN	537	31.123	87.274	61.783	1.00	0.00	C
ATOM	5098	OE1	GLN	537	30.700	87.750	60.730	1.00	0.00	O
ATOM	5099	NE2	GLN	537	32.242	87.744	62.397	1.00	0.00	N
ATOM	5100	1HE2	GLN	537	32.593	87.349	63.270	1.00	0.00	H
ATOM	5101	2HE2	GLN	537	32.727	88.514	61.936	1.00	0.00	H
ATOM	5102	C	GLN	537	33.246	84.956	64.728	1.00	0.00	C
ATOM	5103	O	GLN	537	34.127	85.804	64.850	1.00	0.00	O

ATOM	5104	N	VAL	538	32.967	84.057	65.693	1.00	0.00	N
ATOM	5105	HN	VAL	538	32.243	83.359	65.523	1.00	0.00	H
ATOM	5106	CA	VAL	538	33.657	84.051	66.952	1.00	0.00	C
ATOM	5107	CB	VAL	538	33.220	82.935	67.852	1.00	0.00	C
ATOM	5108	CG1	VAL	538	34.135	82.930	69.087	1.00	0.00	C
ATOM	5109	CG2	VAL	538	31.731	83.120	68.188	1.00	0.00	C
ATOM	5110	C	VAL	538	35.132	83.876	66.740	1.00	0.00	C
ATOM	5111	O	VAL	538	35.934	84.598	67.327	1.00	0.00	O
ATOM	5112	N	ALA	539	35.536	82.901	65.908	1.00	0.00	N
ATOM	5113	HN	ALA	539	34.839	82.314	65.450	1.00	0.00	H
ATOM	5114	CA	ALA	539	36.931	82.670	65.652	1.00	0.00	C
ATOM	5115	CB	ALA	539	37.176	81.433	64.769	1.00	0.00	C
ATOM	5116	C	ALA	539	37.477	83.870	64.950	1.00	0.00	C
ATOM	5117	O	ALA	539	38.600	84.297	65.211	1.00	0.00	O
ATOM	5118	N	LEU	540	36.680	84.452	64.036	1.00	0.00	N
ATOM	5119	HN	LEU	540	35.745	84.080	63.868	1.00	0.00	H
ATOM	5120	CA	LEU	540	37.135	85.589	63.298	1.00	0.00	C
ATOM	5121	CB	LEU	540	36.074	86.120	62.315	1.00	0.00	C
ATOM	5122	CG	LEU	540	35.758	85.141	61.165	1.00	0.00	C
ATOM	5123	CD1	LEU	540	34.699	85.722	60.211	1.00	0.00	C
ATOM	5124	CD2	LEU	540	37.038	84.720	60.424	1.00	0.00	C
ATOM	5125	C	LEU	540	37.418	86.663	64.293	1.00	0.00	C
ATOM	5126	O	LEU	540	38.478	87.282	64.257	1.00	0.00	O
ATOM	5127	N	ASP	541	36.496	86.859	65.256	1.00	0.00	N
ATOM	5128	HN	ASP	541	35.685	86.241	65.297	1.00	0.00	H
ATOM	5129	CA	ASP	541	36.619	87.909	66.225	1.00	0.00	C
ATOM	5130	CB	ASP	541	35.442	87.939	67.215	1.00	0.00	C
ATOM	5131	CG	ASP	541	34.171	88.273	66.443	1.00	0.00	C
ATOM	5132	OD1	ASP	541	34.235	88.323	65.185	1.00	0.00	O
ATOM	5133	OD2	ASP	541	33.116	88.479	67.100	1.00	0.00	O
ATOM	5134	C	ASP	541	37.876	87.706	67.015	1.00	0.00	C
ATOM	5135	O	ASP	541	38.644	88.639	67.235	1.00	0.00	O
ATOM	5136	N	LYS	542	38.150	86.459	67.426	1.00	0.00	N
ATOM	5137	HN	LYS	542	37.528	85.694	67.165	1.00	0.00	H
ATOM	5138	CA	LYS	542	39.305	86.188	68.227	1.00	0.00	C
ATOM	5139	CB	LYS	542	39.501	84.683	68.480	1.00	0.00	C
ATOM	5140	CG	LYS	542	38.293	83.960	69.078	1.00	0.00	C
ATOM	5141	CD	LYS	542	37.873	84.438	70.467	1.00	0.00	C
ATOM	5142	CE	LYS	542	36.687	83.647	71.022	1.00	0.00	C
ATOM	5143	NZ	LYS	542	37.066	82.223	71.179	1.00	0.00	N
ATOM	5144	HZ1	LYS	542	36.275	81.696	71.549	1.00	0.00	H
ATOM	5145	HZ2	LYS	542	37.904	82.109	71.749	1.00	0.00	H
ATOM	5146	HZ3	LYS	542	37.423	81.822	70.311	1.00	0.00	H
ATOM	5147	C	LYS	542	40.495	86.615	67.428	1.00	0.00	C
ATOM	5148	O	LYS	542	41.515	87.006	67.986	1.00	0.00	O
ATOM	5149	N	ALA	543	40.429	86.424	66.098	1.00	0.00	N
ATOM	5150	HN	ALA	543	39.571	86.044	65.699	1.00	0.00	H
ATOM	5151	CA	ALA	543	41.521	86.735	65.217	1.00	0.00	C
ATOM	5152	CB	ALA	543	41.374	86.062	63.843	1.00	0.00	C
ATOM	5153	C	ALA	543	41.764	88.194	64.945	1.00	0.00	C
ATOM	5154	O	ALA	543	42.897	88.660	65.047	1.00	0.00	O
ATOM	5155	N	ARG	544	40.689	88.933	64.598	1.00	0.00	N
ATOM	5156	HN	ARG	544	39.768	88.527	64.763	1.00	0.00	H
ATOM	5157	CA	ARG	544	40.739	90.250	64.013	1.00	0.00	C
ATOM	5158	CB	ARG	544	39.370	90.726	63.501	1.00	0.00	C
ATOM	5159	CG	ARG	544	38.742	89.849	62.418	1.00	0.00	C
ATOM	5160	CD	ARG	544	37.575	90.542	61.711	1.00	0.00	C
ATOM	5161	NE	ARG	544	36.630	91.027	62.757	1.00	0.00	N
ATOM	5162	HE	ARG	544	36.760	91.952	63.166	1.00	0.00	H
ATOM	5163	CZ	ARG	544	35.592	90.244	63.172	1.00	0.00	C
ATOM	5164	NH1	ARG	544	35.419	88.997	62.647	1.00	0.00	N
ATOM	5165	1HH1	ARG	544	36.067	88.646	61.942	1.00	0.00	H
ATOM	5166	2HH1	ARG	544	34.643	88.412	62.957	1.00	0.00	H
ATOM	5167	NH2	ARG	544	34.725	90.713	64.116	1.00	0.00	N
ATOM	5168	1HH2	ARG	544	34.854	91.645	64.509	1.00	0.00	H
ATOM	5169	2HH2	ARG	544	33.949	90.128	64.426	1.00	0.00	H
ATOM	5170	C	ARG	544	41.237	91.377	64.844	1.00	0.00	C
ATOM	5171	O	ARG	544	42.059	92.115	64.336	1.00	0.00	O
ATOM	5172	N	LYS	545	40.824	91.560	66.111	1.00	0.00	N
ATOM	5173	HN	LYS	545	40.303	90.824	66.588	1.00	0.00	H
ATOM	5174	CA	LYS	545	41.118	92.798	66.798	1.00	0.00	C
ATOM	5175	CB	LYS	545	40.599	92.810	68.246	1.00	0.00	C
ATOM	5176	CG	LYS	545	39.072	92.866	68.350	1.00	0.00	C
ATOM	5177	CD	LYS	545	38.458	94.131	67.742	1.00	0.00	C

ATOM	5178	CE	LYS	545	36.934	94.197	67.873	1.00	0.00	C
ATOM	5179	NZ	LYS	545	36.427	95.467	67.304	1.00	0.00	N
ATOM	5180	HZ1	LYS	545	35.412	95.511	67.391	1.00	0.00	H
ATOM	5181	HZ2	LYS	545	36.733	95.602	66.340	1.00	0.00	H
ATOM	5182	HZ3	LYS	545	36.881	96.280	67.721	1.00	0.00	H
ATOM	5183	C	LYS	545	42.588	93.072	66.843	1.00	0.00	C
ATOM	5184	O	LYS	545	43.007	94.214	66.656	1.00	0.00	O
ATOM	5185	N	GLY	546	43.413	92.032	67.042	1.00	0.00	N
ATOM	5186	HN	GLY	546	43.023	91.094	67.131	1.00	0.00	H
ATOM	5187	CA	GLY	546	44.830	92.215	67.132	1.00	0.00	C
ATOM	5188	C	GLY	546	45.270	92.888	65.868	1.00	0.00	C
ATOM	5189	O	GLY	546	46.236	93.649	65.867	1.00	0.00	O
ATOM	5190	N	ARG	547	44.567	92.610	64.754	1.00	0.00	N
ATOM	5191	HN	ARG	547	43.743	92.014	64.832	1.00	0.00	H
ATOM	5192	CA	ARG	547	44.929	93.118	63.458	1.00	0.00	C
ATOM	5193	CB	ARG	547	44.927	92.013	62.389	1.00	0.00	C
ATOM	5194	CG	ARG	547	45.559	90.706	62.876	1.00	0.00	C
ATOM	5195	CD	ARG	547	45.803	89.672	61.775	1.00	0.00	C
ATOM	5196	NE	ARG	547	45.868	88.334	62.430	1.00	0.00	N
ATOM	5197	HE	ARG	547	45.131	87.650	62.256	1.00	0.00	H
ATOM	5198	CZ	ARG	547	46.904	88.015	63.261	1.00	0.00	C
ATOM	5199	NH1	ARG	547	47.841	88.958	63.569	1.00	0.00	N
ATOM	5200	1HH1	ARG	547	48.615	88.720	64.190	1.00	0.00	H
ATOM	5201	2HH1	ARG	547	47.779	89.893	63.166	1.00	0.00	H
ATOM	5202	NH2	ARG	547	46.987	86.763	63.800	1.00	0.00	N
ATOM	5203	1HH2	ARG	547	47.761	86.525	64.421	1.00	0.00	H
ATOM	5204	2HH2	ARG	547	46.287	86.058	63.570	1.00	0.00	H
ATOM	5205	C	ARG	547	43.961	94.182	62.964	1.00	0.00	C
ATOM	5206	O	ARG	547	42.780	94.227	63.293	1.00	0.00	O
ATOM	5207	N	THR	548	44.431	95.130	62.139	1.00	0.00	N
ATOM	5208	HN	THR	548	45.421	95.188	61.901	1.00	0.00	H
ATOM	5209	CA	THR	548	43.471	96.062	61.606	1.00	0.00	C
ATOM	5210	CB	THR	548	44.102	97.264	60.964	1.00	0.00	C
ATOM	5211	OG1	THR	548	43.103	98.144	60.471	1.00	0.00	O
ATOM	5212	HG1	THR	548	42.537	98.432	61.178	1.00	0.00	H
ATOM	5213	CG2	THR	548	45.019	96.797	59.818	1.00	0.00	C
ATOM	5214	C	THR	548	42.708	95.322	60.543	1.00	0.00	C
ATOM	5215	O	THR	548	43.313	94.649	59.709	1.00	0.00	O
ATOM	5216	N	THR	549	41.356	95.423	60.524	1.00	0.00	N
ATOM	5217	HN	THR	549	40.866	96.066	61.146	1.00	0.00	H
ATOM	5218	CA	THR	549	40.635	94.589	59.593	1.00	0.00	C
ATOM	5219	CB	THR	549	40.048	93.381	60.268	1.00	0.00	C
ATOM	5220	OG1	THR	549	39.292	92.600	59.356	1.00	0.00	O
ATOM	5221	HG1	THR	549	39.842	92.309	58.638	1.00	0.00	H
ATOM	5222	CG2	THR	549	39.161	93.850	61.427	1.00	0.00	C
ATOM	5223	C	THR	549	39.505	95.269	58.870	1.00	0.00	C
ATOM	5224	O	THR	549	38.600	95.852	59.464	1.00	0.00	O
ATOM	5225	N	ILE	550	39.491	95.118	57.530	1.00	0.00	N
ATOM	5226	HN	ILE	550	40.244	94.601	57.076	1.00	0.00	H
ATOM	5227	CA	ILE	550	38.434	95.672	56.730	1.00	0.00	C
ATOM	5228	CB	ILE	550	38.969	96.390	55.510	1.00	0.00	C
ATOM	5229	CG1	ILE	550	37.882	97.211	54.799	1.00	0.00	C
ATOM	5230	CG2	ILE	550	39.677	95.370	54.600	1.00	0.00	C
ATOM	5231	CD1	ILE	550	36.795	96.362	54.145	1.00	0.00	C
ATOM	5232	C	ILE	550	37.529	94.530	56.333	1.00	0.00	C
ATOM	5233	O	ILE	550	37.961	93.555	55.718	1.00	0.00	O
ATOM	5234	N	VAL	551	36.230	94.601	56.711	1.00	0.00	N
ATOM	5235	HN	VAL	551	35.889	95.414	57.223	1.00	0.00	H
ATOM	5236	CA	VAL	551	35.332	93.520	56.385	1.00	0.00	C
ATOM	5237	CB	VAL	551	34.741	92.850	57.589	1.00	0.00	C
ATOM	5238	CG1	VAL	551	33.910	93.887	58.363	1.00	0.00	C
ATOM	5239	CG2	VAL	551	33.925	91.633	57.119	1.00	0.00	C
ATOM	5240	C	VAL	551	34.177	94.035	55.574	1.00	0.00	C
ATOM	5241	O	VAL	551	33.569	95.055	55.895	1.00	0.00	O
ATOM	5242	N	ILE	552	33.840	93.307	54.489	1.00	0.00	N
ATOM	5243	HN	ILE	552	34.383	92.473	54.268	1.00	0.00	H
ATOM	5244	CA	ILE	552	32.742	93.666	53.633	1.00	0.00	C
ATOM	5245	CB	ILE	552	33.176	93.871	52.201	1.00	0.00	C
ATOM	5246	CG1	ILE	552	32.048	94.439	51.320	1.00	0.00	C
ATOM	5247	CG2	ILE	552	33.775	92.550	51.688	1.00	0.00	C
ATOM	5248	CD1	ILE	552	30.885	93.479	51.071	1.00	0.00	C
ATOM	5249	C	ILE	552	31.781	92.530	53.709	1.00	0.00	C
ATOM	5250	O	ILE	552	32.167	91.372	53.569	1.00	0.00	O
ATOM	5251	N	ALA	553	30.488	92.800	53.962	1.00	0.00	N

ATOM	5252	HN	ALA	553	30.122	93.745	54.080	1.00	0.00	H
ATOM	5253	CA	ALA	553	29.682	91.625	54.048	1.00	0.00	C
ATOM	5254	CB	ALA	553	29.947	90.799	55.319	1.00	0.00	C
ATOM	5255	C	ALA	553	28.230	91.953	54.039	1.00	0.00	C
ATOM	5256	O	ALA	553	27.805	93.106	54.116	1.00	0.00	O
ATOM	5257	N	HIS	554	27.449	90.888	53.795	1.00	0.00	N
ATOM	5258	HN	HIS	554	27.911	90.006	53.572	1.00	0.00	H
ATOM	5259	CA	HIS	554	26.027	90.896	53.824	1.00	0.00	C
ATOM	5260	ND1	HIS	554	24.637	91.428	50.948	1.00	0.00	N
ATOM	5261	HD1	HIS	554	23.895	91.909	51.456	1.00	0.00	H
ATOM	5262	CG	HIS	554	25.454	90.432	51.436	1.00	0.00	C
ATOM	5263	CB	HIS	554	25.378	89.909	52.841	1.00	0.00	C
ATOM	5264	NE2	HIS	554	26.005	90.863	49.290	1.00	0.00	N
ATOM	5265	HE2	HIS	554	26.466	90.829	48.381	1.00	0.00	H
ATOM	5266	CD2	HIS	554	26.283	90.098	50.409	1.00	0.00	C
ATOM	5267	CE1	HIS	554	25.009	91.647	49.662	1.00	0.00	C
ATOM	5268	C	HIS	554	25.410	90.711	55.190	1.00	0.00	C
ATOM	5269	O	HIS	554	24.298	91.181	55.407	1.00	0.00	O
ATOM	5270	N	ARG	555	26.065	90.019	56.151	1.00	0.00	N
ATOM	5271	HN	ARG	555	27.034	89.733	56.012	1.00	0.00	H
ATOM	5272	CA	ARG	555	25.374	89.690	57.376	1.00	0.00	C
ATOM	5273	CB	ARG	555	26.133	88.693	58.273	1.00	0.00	C
ATOM	5274	CG	ARG	555	26.423	87.320	57.656	1.00	0.00	C
ATOM	5275	CD	ARG	555	25.192	86.508	57.248	1.00	0.00	C
ATOM	5276	NE	ARG	555	25.254	86.330	55.770	1.00	0.00	N
ATOM	5277	HE	ARG	555	25.789	85.558	55.372	1.00	0.00	H
ATOM	5278	CZ	ARG	555	24.597	87.197	54.948	1.00	0.00	C
ATOM	5279	NH1	ARG	555	23.827	88.182	55.489	1.00	0.00	N
ATOM	5280	1HH1	ARG	555	23.336	88.831	54.874	1.00	0.00	H
ATOM	5281	2HH1	ARG	555	23.743	88.275	56.501	1.00	0.00	H
ATOM	5282	NH2	ARG	555	24.710	87.073	53.594	1.00	0.00	N
ATOM	5283	1HH2	ARG	555	24.219	87.722	52.979	1.00	0.00	H
ATOM	5284	2HH2	ARG	555	25.287	86.335	53.189	1.00	0.00	H
ATOM	5285	C	ARG	555	25.218	90.921	58.168	1.00	0.00	C
ATOM	5286	O	ARG	555	26.055	91.258	59.001	1.00	0.00	O
ATOM	5287	N	LEU	556	24.068	91.572	57.982	1.00	0.00	N
ATOM	5288	HN	LEU	556	23.365	91.198	57.344	1.00	0.00	H
ATOM	5289	CA	LEU	556	23.826	92.790	58.678	1.00	0.00	C
ATOM	5290	CB	LEU	556	22.439	93.401	58.416	1.00	0.00	C
ATOM	5291	CG	LEU	556	22.241	93.907	56.976	1.00	0.00	C
ATOM	5292	CD1	LEU	556	23.299	94.965	56.612	1.00	0.00	C
ATOM	5293	CD2	LEU	556	22.130	92.751	55.972	1.00	0.00	C
ATOM	5294	C	LEU	556	23.900	92.465	60.122	1.00	0.00	C
ATOM	5295	O	LEU	556	24.342	93.279	60.926	1.00	0.00	O
ATOM	5296	N	SER	557	23.503	91.236	60.486	1.00	0.00	N
ATOM	5297	HN	SER	557	23.174	90.562	59.794	1.00	0.00	H
ATOM	5298	CA	SER	557	23.556	90.901	61.882	1.00	0.00	C
ATOM	5299	CB	SER	557	23.096	89.460	62.171	1.00	0.00	C
ATOM	5300	OG	SER	557	23.987	88.525	61.581	1.00	0.00	O
ATOM	5301	HG	SER	557	23.703	87.636	61.759	1.00	0.00	H
ATOM	5302	C	SER	557	24.969	91.054	62.408	1.00	0.00	C
ATOM	5303	O	SER	557	25.172	91.633	63.473	1.00	0.00	O
ATOM	5304	N	THR	558	25.978	90.522	61.684	1.00	0.00	N
ATOM	5305	HN	THR	558	25.728	90.076	60.802	1.00	0.00	H
ATOM	5306	CA	THR	558	27.383	90.525	62.042	1.00	0.00	C
ATOM	5307	CB	THR	558	28.188	89.502	61.292	1.00	0.00	C
ATOM	5308	OG1	THR	558	28.224	89.811	59.906	1.00	0.00	O
ATOM	5309	HG1	THR	558	28.624	90.662	59.770	1.00	0.00	H
ATOM	5310	CG2	THR	558	27.540	88.125	61.512	1.00	0.00	C
ATOM	5311	C	THR	558	28.016	91.847	61.788	1.00	0.00	C
ATOM	5312	O	THR	558	29.165	92.084	62.163	1.00	0.00	O
ATOM	5313	N	VAL	559	27.338	92.685	61.000	1.00	0.00	N
ATOM	5314	HN	VAL	559	26.434	92.401	60.622	1.00	0.00	H
ATOM	5315	CA	VAL	559	27.860	93.970	60.680	1.00	0.00	C
ATOM	5316	CB	VAL	559	27.003	94.704	59.689	1.00	0.00	C
ATOM	5317	CG1	VAL	559	27.580	96.116	59.497	1.00	0.00	C
ATOM	5318	CG2	VAL	559	26.929	93.882	58.390	1.00	0.00	C
ATOM	5319	C	VAL	559	27.913	94.790	61.918	1.00	0.00	C
ATOM	5320	O	VAL	559	28.870	95.529	62.142	1.00	0.00	O
ATOM	5321	N	ARG	560	26.929	94.583	62.807	1.00	0.00	N
ATOM	5322	HN	ARG	560	26.341	93.756	62.706	1.00	0.00	H
ATOM	5323	CA	ARG	560	26.675	95.479	63.890	1.00	0.00	C
ATOM	5324	CB	ARG	560	25.638	94.932	64.875	1.00	0.00	C
ATOM	5325	CG	ARG	560	24.313	94.629	64.186	1.00	0.00	C

ATOM	5326	CD	ARG	560	23.134	94.566	65.148	1.00	0.00	C
ATOM	5327	NE	ARG	560	22.551	95.936	65.204	1.00	0.00	N
ATOM	5328	HE	ARG	560	22.987	96.700	64.687	1.00	0.00	H
ATOM	5329	CZ	ARG	560	21.431	96.165	65.950	1.00	0.00	C
ATOM	5330	NH1	ARG	560	20.884	95.151	66.681	1.00	0.00	N
ATOM	5331	1HH1	ARG	560	21.313	94.226	66.668	1.00	0.00	H
ATOM	5332	2HH1	ARG	560	20.047	95.322	67.238	1.00	0.00	H
ATOM	5333	NH2	ARG	560	20.857	97.403	65.968	1.00	0.00	N
ATOM	5334	1HH2	ARG	560	21.266	98.161	65.422	1.00	0.00	H
ATOM	5335	2HH2	ARG	560	20.020	97.574	66.525	1.00	0.00	H
ATOM	5336	C	ARG	560	27.919	95.812	64.675	1.00	0.00	C
ATOM	5337	O	ARG	560	28.195	96.992	64.891	1.00	0.00	O
ATOM	5338	N	ASN	561	28.742	94.827	65.083	1.00	0.00	N
ATOM	5339	HN	ASN	561	28.555	93.855	64.835	1.00	0.00	H
ATOM	5340	CA	ASN	561	29.894	95.176	65.878	1.00	0.00	C
ATOM	5341	CB	ASN	561	30.450	93.965	66.645	1.00	0.00	C
ATOM	5342	CG	ASN	561	30.850	92.903	65.627	1.00	0.00	C
ATOM	5343	OD1	ASN	561	30.097	92.590	64.705	1.00	0.00	O
ATOM	5344	ND2	ASN	561	32.081	92.349	65.786	1.00	0.00	N
ATOM	5345	1HD2	ASN	561	32.705	92.608	66.550	1.00	0.00	H
ATOM	5346	2HD2	ASN	561	32.349	91.638	65.105	1.00	0.00	H
ATOM	5347	C	ASN	561	30.998	95.711	65.003	1.00	0.00	C
ATOM	5348	O	ASN	561	32.138	95.249	65.050	1.00	0.00	O
ATOM	5349	N	ALA	562	30.706	96.769	64.229	1.00	0.00	N
ATOM	5350	HN	ALA	562	29.765	97.162	64.243	1.00	0.00	H
ATOM	5351	CA	ALA	562	31.704	97.348	63.385	1.00	0.00	C
ATOM	5352	CB	ALA	562	31.194	97.673	61.970	1.00	0.00	C
ATOM	5353	C	ALA	562	32.102	98.636	64.022	1.00	0.00	C
ATOM	5354	O	ALA	562	31.256	99.394	64.496	1.00	0.00	O
ATOM	5355	N	ASP	563	33.419	98.909	64.046	1.00	0.00	N
ATOM	5356	HN	ASP	563	34.082	98.240	63.655	1.00	0.00	H
ATOM	5357	CA	ASP	563	33.897	100.131	64.616	1.00	0.00	C
ATOM	5358	CB	ASP	563	35.423	100.267	64.508	1.00	0.00	C
ATOM	5359	CG	ASP	563	36.041	99.254	65.455	1.00	0.00	C
ATOM	5360	OD1	ASP	563	35.986	99.485	66.692	1.00	0.00	O
ATOM	5361	OD2	ASP	563	36.563	98.224	64.954	1.00	0.00	O
ATOM	5362	C	ASP	563	33.282	101.216	63.800	1.00	0.00	C
ATOM	5363	O	ASP	563	32.916	102.272	64.315	1.00	0.00	O
ATOM	5364	N	VAL	564	33.167	100.965	62.484	1.00	0.00	N
ATOM	5365	HN	VAL	564	33.501	100.072	62.122	1.00	0.00	H
ATOM	5366	CA	VAL	564	32.592	101.908	61.572	1.00	0.00	C
ATOM	5367	CB	VAL	564	33.641	102.836	61.029	1.00	0.00	C
ATOM	5368	CG1	VAL	564	33.082	103.679	59.884	1.00	0.00	C
ATOM	5369	CG2	VAL	564	34.140	103.701	62.186	1.00	0.00	C
ATOM	5370	C	VAL	564	32.032	101.134	60.416	1.00	0.00	C
ATOM	5371	O	VAL	564	32.452	100.009	60.150	1.00	0.00	O
ATOM	5372	N	ILE	565	31.046	101.731	59.711	1.00	0.00	N
ATOM	5373	HN	ILE	565	30.709	102.645	60.015	1.00	0.00	H
ATOM	5374	CA	ILE	565	30.453	101.127	58.548	1.00	0.00	C
ATOM	5375	CB	ILE	565	29.015	100.725	58.736	1.00	0.00	C
ATOM	5376	CG1	ILE	565	28.883	99.710	59.884	1.00	0.00	C
ATOM	5377	CG2	ILE	565	28.493	100.178	57.395	1.00	0.00	C
ATOM	5378	CD1	ILE	565	29.162	100.304	61.263	1.00	0.00	C
ATOM	5379	C	ILE	565	30.489	102.173	57.475	1.00	0.00	C
ATOM	5380	O	ILE	565	30.547	103.365	57.769	1.00	0.00	O
ATOM	5381	N	ALA	566	30.509	101.753	56.194	1.00	0.00	N
ATOM	5382	HN	ALA	566	30.515	100.753	55.991	1.00	0.00	H
ATOM	5383	CA	ALA	566	30.522	102.699	55.111	1.00	0.00	C
ATOM	5384	CB	ALA	566	31.891	102.812	54.420	1.00	0.00	C
ATOM	5385	C	ALA	566	29.526	102.234	54.085	1.00	0.00	C
ATOM	5386	O	ALA	566	29.347	101.036	53.861	1.00	0.00	O
ATOM	5387	N	GLY	567	28.861	103.188	53.401	1.00	0.00	N
ATOM	5388	HN	GLY	567	29.092	104.172	53.535	1.00	0.00	H
ATOM	5389	CA	GLY	567	27.826	102.806	52.484	1.00	0.00	C
ATOM	5390	C	GLY	567	28.356	102.734	51.099	1.00	0.00	C
ATOM	5391	O	GLY	567	28.864	103.709	50.555	1.00	0.00	O
ATOM	5392	N	PHE	568	28.202	101.546	50.495	1.00	0.00	N
ATOM	5393	HN	PHE	568	27.775	100.794	51.037	1.00	0.00	H
ATOM	5394	CA	PHE	568	28.589	101.252	49.152	1.00	0.00	C
ATOM	5395	CB	PHE	568	29.805	100.311	49.016	1.00	0.00	C
ATOM	5396	CG	PHE	568	31.060	101.021	49.402	1.00	0.00	C
ATOM	5397	CD1	PHE	568	31.637	101.928	48.545	1.00	0.00	C
ATOM	5398	CD2	PHE	568	31.681	100.761	50.603	1.00	0.00	C
ATOM	5399	CE1	PHE	568	32.798	102.581	48.887	1.00	0.00	C

ATOM	5400	CE2	PHE	568	32.843	101.410	50.951	1.00	0.00	C
ATOM	5401	CZ	PHE	568	33.404	102.325	50.093	1.00	0.00	C
ATOM	5402	C	PHE	568	27.434	100.520	48.557	1.00	0.00	C
ATOM	5403	O	PHE	568	26.471	100.187	49.247	1.00	0.00	O
ATOM	5404	N	ASP	569	27.489	100.306	47.233	1.00	0.00	N
ATOM	5405	HN	ASP	569	28.285	100.668	46.709	1.00	0.00	H
ATOM	5406	CA	ASP	569	26.471	99.589	46.533	1.00	0.00	C
ATOM	5407	CB	ASP	569	25.057	100.071	46.900	1.00	0.00	C
ATOM	5408	CG	ASP	569	24.042	99.049	46.419	1.00	0.00	C
ATOM	5409	OD1	ASP	569	23.950	98.837	45.182	1.00	0.00	O
ATOM	5410	OD2	ASP	569	23.333	98.477	47.289	1.00	0.00	O
ATOM	5411	C	ASP	569	26.714	99.900	45.100	1.00	0.00	C
ATOM	5412	O	ASP	569	26.034	100.730	44.500	1.00	0.00	O
ATOM	5413	N	ASP	570	27.632	99.149	44.482	1.00	0.00	N
ATOM	5414	HN	ASP	570	28.045	98.354	44.970	1.00	0.00	H
ATOM	5415	CA	ASP	570	28.042	99.448	43.142	1.00	0.00	C
ATOM	5416	CB	ASP	570	26.900	99.487	42.115	1.00	0.00	C
ATOM	5417	CG	ASP	570	27.479	99.396	40.705	1.00	0.00	C
ATOM	5418	OD1	ASP	570	28.691	99.688	40.518	1.00	0.00	O
ATOM	5419	OD2	ASP	570	26.702	99.016	39.789	1.00	0.00	O
ATOM	5420	C	ASP	570	28.744	100.769	43.034	1.00	0.00	C
ATOM	5421	O	ASP	570	28.318	101.631	42.273	1.00	0.00	O
ATOM	5422	N	GLY	571	29.844	100.965	43.791	1.00	0.00	N
ATOM	5423	HN	GLY	571	30.107	100.265	44.485	1.00	0.00	H
ATOM	5424	CA	GLY	571	30.651	102.145	43.634	1.00	0.00	C
ATOM	5425	C	GLY	571	29.980	103.417	44.104	1.00	0.00	C
ATOM	5426	O	GLY	571	29.764	104.315	43.294	1.00	0.00	O
ATOM	5427	N	VAL	572	29.573	103.535	45.391	1.00	0.00	N
ATOM	5428	HN	VAL	572	29.600	102.732	46.019	1.00	0.00	H
ATOM	5429	CA	VAL	572	29.099	104.821	45.861	1.00	0.00	C
ATOM	5430	CB	VAL	572	27.654	105.084	45.525	1.00	0.00	C
ATOM	5431	CG1	VAL	572	26.768	103.966	46.102	1.00	0.00	C
ATOM	5432	CG2	VAL	572	27.292	106.491	46.028	1.00	0.00	C
ATOM	5433	C	VAL	572	29.282	104.905	47.358	1.00	0.00	C
ATOM	5434	O	VAL	572	28.640	104.154	48.085	1.00	0.00	O
ATOM	5435	N	ILE	573	30.114	105.853	47.874	1.00	0.00	N
ATOM	5436	HN	ILE	573	30.559	106.535	47.260	1.00	0.00	H
ATOM	5437	CA	ILE	573	30.363	105.885	49.302	1.00	0.00	C
ATOM	5438	CB	ILE	573	31.840	105.942	49.637	1.00	0.00	C
ATOM	5439	CG1	ILE	573	32.108	105.717	51.140	1.00	0.00	C
ATOM	5440	CG2	ILE	573	32.441	107.235	49.059	1.00	0.00	C
ATOM	5441	CD1	ILE	573	31.654	106.843	52.066	1.00	0.00	C
ATOM	5442	C	ILE	573	29.613	107.024	49.959	1.00	0.00	C
ATOM	5443	O	ILE	573	30.003	108.184	49.854	1.00	0.00	O
ATOM	5444	N	VAL	574	28.408	106.746	50.512	1.00	0.00	N
ATOM	5445	HN	VAL	574	28.030	105.802	50.430	1.00	0.00	H
ATOM	5446	CA	VAL	574	27.644	107.750	51.214	1.00	0.00	C
ATOM	5447	CB	VAL	574	26.195	107.672	50.831	1.00	0.00	C
ATOM	5448	CG1	VAL	574	26.092	108.042	49.342	1.00	0.00	C
ATOM	5449	CG2	VAL	574	25.665	106.257	51.128	1.00	0.00	C
ATOM	5450	C	VAL	574	27.723	107.861	52.726	1.00	0.00	C
ATOM	5451	O	VAL	574	28.333	108.785	53.267	1.00	0.00	O
ATOM	5452	N	GLU	575	27.169	106.842	53.439	1.00	0.00	N
ATOM	5453	HN	GLU	575	26.954	105.973	52.951	1.00	0.00	H
ATOM	5454	CA	GLU	575	26.868	106.925	54.853	1.00	0.00	C
ATOM	5455	CB	GLU	575	25.565	106.189	55.211	1.00	0.00	C
ATOM	5456	CG	GLU	575	24.317	106.708	54.497	1.00	0.00	C
ATOM	5457	CD	GLU	575	23.257	105.622	54.632	1.00	0.00	C
ATOM	5458	OE1	GLU	575	23.586	104.549	55.205	1.00	0.00	O
ATOM	5459	OE2	GLU	575	22.110	105.843	54.165	1.00	0.00	O
ATOM	5460	C	GLU	575	27.920	106.236	55.652	1.00	0.00	C
ATOM	5461	O	GLU	575	28.024	105.012	55.611	1.00	0.00	O
ATOM	5462	N	LYS	576	28.682	107.008	56.454	1.00	0.00	N
ATOM	5463	HN	LYS	576	28.514	108.013	56.496	1.00	0.00	H
ATOM	5464	CA	LYS	576	29.726	106.429	57.247	1.00	0.00	C
ATOM	5465	CB	LYS	576	31.062	107.176	57.136	1.00	0.00	C
ATOM	5466	CG	LYS	576	31.621	107.275	55.717	1.00	0.00	C
ATOM	5467	CD	LYS	576	32.731	108.321	55.613	1.00	0.00	C
ATOM	5468	CE	LYS	576	32.311	109.689	56.155	1.00	0.00	C
ATOM	5469	NZ	LYS	576	33.493	110.568	56.298	1.00	0.00	N
ATOM	5470	HZ1	LYS	576	33.213	111.480	56.659	1.00	0.00	H
ATOM	5471	HZ2	LYS	576	34.016	110.648	55.426	1.00	0.00	H
ATOM	5472	HZ3	LYS	576	34.220	110.139	56.870	1.00	0.00	H
ATOM	5473	C	LYS	576	29.300	106.576	58.667	1.00	0.00	C

ATOM	5474	O	LYS	576	28.607	107.533	59.013	1.00	0.00	O
ATOM	5475	N	GLY	577	29.679	105.614	59.531	1.00	0.00	N
ATOM	5476	HN	GLY	577	30.187	104.788	59.215	1.00	0.00	H
ATOM	5477	CA	GLY	577	29.342	105.795	60.905	1.00	0.00	C
ATOM	5478	C	GLY	577	28.830	104.518	61.487	1.00	0.00	C
ATOM	5479	O	GLY	577	28.819	103.469	60.846	1.00	0.00	O
ATOM	5480	N	ASN	578	28.359	104.622	62.744	1.00	0.00	N
ATOM	5481	HN	ASN	578	28.326	105.553	63.159	1.00	0.00	H
ATOM	5482	CA	ASN	578	27.900	103.526	63.544	1.00	0.00	C
ATOM	5483	CB	ASN	578	27.695	103.945	65.016	1.00	0.00	C
ATOM	5484	CG	ASN	578	27.215	102.763	65.846	1.00	0.00	C
ATOM	5485	OD1	ASN	578	27.886	101.736	65.940	1.00	0.00	O
ATOM	5486	ND2	ASN	578	26.009	102.909	66.456	1.00	0.00	N
ATOM	5487	1HD2	ASN	578	25.687	102.117	67.012	1.00	0.00	H
ATOM	5488	2HD2	ASN	578	25.453	103.760	66.378	1.00	0.00	H
ATOM	5489	C	ASN	578	26.598	103.000	63.009	1.00	0.00	C
ATOM	5490	O	ASN	578	25.873	103.677	62.282	1.00	0.00	O
ATOM	5491	N	HIS	579	26.274	101.751	63.397	1.00	0.00	N
ATOM	5492	HN	HIS	579	26.878	101.299	64.083	1.00	0.00	H
ATOM	5493	CA	HIS	579	25.139	101.006	62.916	1.00	0.00	C
ATOM	5494	ND1	HIS	579	23.444	98.159	62.224	1.00	0.00	N
ATOM	5495	HD1	HIS	579	24.103	97.929	61.481	1.00	0.00	H
ATOM	5496	CG	HIS	579	23.688	98.956	63.320	1.00	0.00	C
ATOM	5497	CB	HIS	579	24.995	99.641	63.614	1.00	0.00	C
ATOM	5498	NE2	HIS	579	21.559	98.206	63.402	1.00	0.00	N
ATOM	5499	HE2	HIS	579	20.600	98.039	63.706	1.00	0.00	H
ATOM	5500	CD2	HIS	579	22.524	98.973	64.029	1.00	0.00	C
ATOM	5501	CE1	HIS	579	22.157	97.738	62.323	1.00	0.00	C
ATOM	5502	C	HIS	579	23.841	101.696	63.128	1.00	0.00	C
ATOM	5503	O	HIS	579	23.115	101.941	62.165	1.00	0.00	O
ATOM	5504	N	ASP	580	23.540	102.071	64.381	1.00	0.00	N
ATOM	5505	HN	ASP	580	24.233	101.960	65.121	1.00	0.00	H
ATOM	5506	CA	ASP	580	22.258	102.625	64.689	1.00	0.00	C
ATOM	5507	CB	ASP	580	22.118	103.012	66.169	1.00	0.00	C
ATOM	5508	CG	ASP	580	22.213	101.731	66.988	1.00	0.00	C
ATOM	5509	OD1	ASP	580	22.610	100.686	66.406	1.00	0.00	O
ATOM	5510	OD2	ASP	580	21.890	101.780	68.205	1.00	0.00	O
ATOM	5511	C	ASP	580	22.137	103.855	63.877	1.00	0.00	C
ATOM	5512	O	ASP	580	21.036	104.289	63.552	1.00	0.00	O
ATOM	5513	N	GLU	581	23.287	104.472	63.569	1.00	0.00	N
ATOM	5514	HN	GLU	581	24.172	104.074	63.885	1.00	0.00	H
ATOM	5515	CA	GLU	581	23.290	105.679	62.805	1.00	0.00	C
ATOM	5516	CB	GLU	581	24.700	106.283	62.743	1.00	0.00	C
ATOM	5517	CG	GLU	581	25.201	106.662	64.139	1.00	0.00	C
ATOM	5518	CD	GLU	581	26.644	107.130	64.042	1.00	0.00	C
ATOM	5519	OE1	GLU	581	26.951	107.936	63.124	1.00	0.00	O
ATOM	5520	OE2	GLU	581	27.461	106.682	64.890	1.00	0.00	O
ATOM	5521	C	GLU	581	22.801	105.419	61.406	1.00	0.00	C
ATOM	5522	O	GLU	581	21.963	106.158	60.896	1.00	0.00	O
ATOM	5523	N	LEU	582	23.313	104.365	60.739	1.00	0.00	N
ATOM	5524	HN	LEU	582	23.993	103.763	61.204	1.00	0.00	H
ATOM	5525	CA	LEU	582	22.922	104.069	59.383	1.00	0.00	C
ATOM	5526	CB	LEU	582	23.840	103.050	58.687	1.00	0.00	C
ATOM	5527	CG	LEU	582	25.221	103.625	58.321	1.00	0.00	C
ATOM	5528	CD1	LEU	582	26.016	104.040	59.569	1.00	0.00	C
ATOM	5529	CD2	LEU	582	25.995	102.663	57.408	1.00	0.00	C
ATOM	5530	C	LEU	582	21.516	103.552	59.292	1.00	0.00	C
ATOM	5531	O	LEU	582	20.844	103.747	58.279	1.00	0.00	O
ATOM	5532	N	MET	583	21.091	102.760	60.291	1.00	0.00	N
ATOM	5533	HN	MET	583	21.751	102.518	61.030	1.00	0.00	H
ATOM	5534	CA	MET	583	19.755	102.236	60.374	1.00	0.00	C
ATOM	5535	CB	MET	583	19.673	101.230	61.532	1.00	0.00	C
ATOM	5536	CG	MET	583	18.626	100.134	61.388	1.00	0.00	C
ATOM	5537	SD	MET	583	19.070	98.847	60.183	1.00	0.00	S
ATOM	5538	CE	MET	583	17.977	97.586	60.898	1.00	0.00	C
ATOM	5539	C	MET	583	18.838	103.381	60.688	1.00	0.00	C
ATOM	5540	O	MET	583	17.755	103.509	60.120	1.00	0.00	O
ATOM	5541	N	LYS	584	19.280	104.264	61.608	1.00	0.00	N
ATOM	5542	HN	LYS	584	20.199	104.123	62.026	1.00	0.00	H
ATOM	5543	CA	LYS	584	18.497	105.395	62.016	1.00	0.00	C
ATOM	5544	CB	LYS	584	19.135	106.229	63.137	1.00	0.00	C
ATOM	5545	CG	LYS	584	18.868	105.657	64.530	1.00	0.00	C
ATOM	5546	CD	LYS	584	17.371	105.493	64.812	1.00	0.00	C
ATOM	5547	CE	LYS	584	16.513	106.602	64.199	1.00	0.00	C

ATOM	5548	NZ	LYS	584	15.076	106.297	64.389	1.00	0.00	N
ATOM	5549	HZ1	LYS	584	14.504	107.036	63.980	1.00	0.00	H
ATOM	5550	HZ2	LYS	584	14.847	106.135	65.369	1.00	0.00	H
ATOM	5551	HZ3	LYS	584	14.829	105.377	64.023	1.00	0.00	H
ATOM	5552	C	LYS	584	18.320	106.266	60.826	1.00	0.00	C
ATOM	5553	O	LYS	584	17.303	106.945	60.680	1.00	0.00	O
ATOM	5554	N	GLU	585	19.346	106.278	59.962	1.00	0.00	N
ATOM	5555	HN	GLU	585	20.178	105.728	60.174	1.00	0.00	H
ATOM	5556	CA	GLU	585	19.307	107.038	58.755	1.00	0.00	C
ATOM	5557	CB	GLU	585	20.632	106.983	57.978	1.00	0.00	C
ATOM	5558	CG	GLU	585	20.674	107.959	56.804	1.00	0.00	C
ATOM	5559	CD	GLU	585	20.593	109.359	57.391	1.00	0.00	C
ATOM	5560	OE1	GLU	585	21.277	109.610	58.419	1.00	0.00	O
ATOM	5561	OE2	GLU	585	19.835	110.193	56.829	1.00	0.00	O
ATOM	5562	C	GLU	585	18.228	106.458	57.894	1.00	0.00	C
ATOM	5563	O	GLU	585	17.525	107.190	57.199	1.00	0.00	O
ATOM	5564	N	LYS	586	18.057	105.119	57.944	1.00	0.00	N
ATOM	5565	HN	LYS	586	18.616	104.569	58.596	1.00	0.00	H
ATOM	5566	CA	LYS	586	17.106	104.451	57.100	1.00	0.00	C
ATOM	5567	CB	LYS	586	15.659	104.932	57.292	1.00	0.00	C
ATOM	5568	CG	LYS	586	15.044	104.499	58.620	1.00	0.00	C
ATOM	5569	CD	LYS	586	13.736	105.221	58.947	1.00	0.00	C
ATOM	5570	CE	LYS	586	12.970	104.587	60.108	1.00	0.00	C
ATOM	5571	NZ	LYS	586	12.446	103.265	59.696	1.00	0.00	N
ATOM	5572	HZ1	LYS	586	11.935	102.842	60.471	1.00	0.00	H
ATOM	5573	HZ2	LYS	586	13.181	102.654	59.341	1.00	0.00	H
ATOM	5574	HZ3	LYS	586	11.881	103.322	58.849	1.00	0.00	H
ATOM	5575	C	LYS	586	17.518	104.761	55.709	1.00	0.00	C
ATOM	5576	O	LYS	586	16.693	104.935	54.813	1.00	0.00	O
ATOM	5577	N	GLY	587	18.844	104.817	55.508	1.00	0.00	N
ATOM	5578	HN	GLY	587	19.475	104.625	56.286	1.00	0.00	H
ATOM	5579	CA	GLY	587	19.387	105.139	54.233	1.00	0.00	C
ATOM	5580	C	GLY	587	19.740	103.859	53.558	1.00	0.00	C
ATOM	5581	O	GLY	587	18.957	102.910	53.521	1.00	0.00	O
ATOM	5582	N	ILE	588	20.949	103.825	52.976	1.00	0.00	N
ATOM	5583	HN	ILE	588	21.573	104.627	53.056	1.00	0.00	H
ATOM	5584	CA	ILE	588	21.365	102.673	52.246	1.00	0.00	C
ATOM	5585	CB	ILE	588	22.726	102.830	51.638	1.00	0.00	C
ATOM	5586	CG1	ILE	588	22.723	103.965	50.606	1.00	0.00	C
ATOM	5587	CG2	ILE	588	23.143	101.467	51.058	1.00	0.00	C
ATOM	5588	CD1	ILE	588	21.784	103.693	49.434	1.00	0.00	C
ATOM	5589	C	ILE	588	21.475	101.493	53.149	1.00	0.00	C
ATOM	5590	O	ILE	588	20.904	100.439	52.864	1.00	0.00	O
ATOM	5591	N	TYR	589	22.165	101.668	54.293	1.00	0.00	N
ATOM	5592	HN	TYR	589	22.497	102.598	54.548	1.00	0.00	H
ATOM	5593	CA	TYR	589	22.434	100.554	55.152	1.00	0.00	C
ATOM	5594	CB	TYR	589	23.164	100.996	56.432	1.00	0.00	C
ATOM	5595	CG	TYR	589	23.395	99.814	57.306	1.00	0.00	C
ATOM	5596	CD1	TYR	589	24.306	98.846	56.954	1.00	0.00	C
ATOM	5597	CD2	TYR	589	22.718	99.692	58.496	1.00	0.00	C
ATOM	5598	CE1	TYR	589	24.523	97.762	57.770	1.00	0.00	C
ATOM	5599	CE2	TYR	589	22.930	98.611	59.317	1.00	0.00	C
ATOM	5600	CZ	TYR	589	23.833	97.643	58.953	1.00	0.00	C
ATOM	5601	OH	TYR	589	24.051	96.532	59.795	1.00	0.00	O
ATOM	5602	HH	TYR	589	24.676	95.862	59.543	1.00	0.00	H
ATOM	5603	C	TYR	589	21.142	99.900	55.527	1.00	0.00	C
ATOM	5604	O	TYR	589	20.914	98.721	55.253	1.00	0.00	O
ATOM	5605	N	PHE	590	20.207	100.697	56.046	1.00	0.00	N
ATOM	5606	HN	PHE	590	20.382	101.700	56.111	1.00	0.00	H
ATOM	5607	CA	PHE	590	18.964	100.167	56.512	1.00	0.00	C
ATOM	5608	CB	PHE	590	18.026	101.256	57.060	1.00	0.00	C
ATOM	5609	CG	PHE	590	16.778	100.575	57.507	1.00	0.00	C
ATOM	5610	CD1	PHE	590	15.734	100.341	56.643	1.00	0.00	C
ATOM	5611	CD2	PHE	590	16.657	100.160	58.808	1.00	0.00	C
ATOM	5612	CE1	PHE	590	14.589	99.709	57.068	1.00	0.00	C
ATOM	5613	CE2	PHE	590	15.516	99.528	59.241	1.00	0.00	C
ATOM	5614	CZ	PHE	590	14.476	99.299	58.373	1.00	0.00	C
ATOM	5615	C	PHE	590	18.251	99.515	55.365	1.00	0.00	C
ATOM	5616	O	PHE	590	17.798	98.372	55.452	1.00	0.00	O
ATOM	5617	N	LYS	591	18.177	100.228	54.230	1.00	0.00	N
ATOM	5618	HN	LYS	591	18.694	101.104	54.157	1.00	0.00	H
ATOM	5619	CA	LYS	591	17.389	99.786	53.122	1.00	0.00	C
ATOM	5620	CB	LYS	591	17.505	100.737	51.924	1.00	0.00	C
ATOM	5621	CG	LYS	591	16.824	100.214	50.659	1.00	0.00	C

ATOM	5622	CD	LYS	591	16.711	101.272	49.564	1.00	0.00	C
ATOM	5623	CE	LYS	591	16.388	100.700	48.185	1.00	0.00	C
ATOM	5624	NZ	LYS	591	17.625	100.186	47.554	1.00	0.00	N
ATOM	5625	HZ1	LYS	591	17.409	99.804	46.633	1.00	0.00	H
ATOM	5626	HZ2	LYS	591	18.106	99.510	48.147	1.00	0.00	H
ATOM	5627	HZ3	LYS	591	18.358	100.894	47.514	1.00	0.00	H
ATOM	5628	C	LYS	591	17.880	98.463	52.668	1.00	0.00	C
ATOM	5629	O	LYS	591	17.132	97.499	52.506	1.00	0.00	O
ATOM	5630	N	LEU	592	19.193	98.386	52.497	1.00	0.00	N
ATOM	5631	HN	LEU	592	19.775	99.193	52.723	1.00	0.00	H
ATOM	5632	CA	LEU	592	19.802	97.207	52.007	1.00	0.00	C
ATOM	5633	CB	LEU	592	21.309	97.469	51.834	1.00	0.00	C
ATOM	5634	CG	LEU	592	22.119	96.394	51.101	1.00	0.00	C
ATOM	5635	CD1	LEU	592	23.594	96.805	51.009	1.00	0.00	C
ATOM	5636	CD2	LEU	592	21.954	95.017	51.740	1.00	0.00	C
ATOM	5637	C	LEU	592	19.544	96.127	53.002	1.00	0.00	C
ATOM	5638	O	LEU	592	19.339	94.969	52.633	1.00	0.00	O
ATOM	5639	N	VAL	593	19.512	96.500	54.297	1.00	0.00	N
ATOM	5640	HN	VAL	593	19.602	97.487	54.538	1.00	0.00	H
ATOM	5641	CA	VAL	593	19.354	95.530	55.339	1.00	0.00	C
ATOM	5642	CB	VAL	593	19.220	96.122	56.715	1.00	0.00	C
ATOM	5643	CG1	VAL	593	18.783	95.001	57.676	1.00	0.00	C
ATOM	5644	CG2	VAL	593	20.561	96.754	57.120	1.00	0.00	C
ATOM	5645	C	VAL	593	18.099	94.762	55.048	1.00	0.00	C
ATOM	5646	O	VAL	593	18.098	93.532	55.020	1.00	0.00	O
ATOM	5647	N	THR	594	17.010	95.486	54.747	1.00	0.00	N
ATOM	5648	HN	THR	594	17.098	96.498	54.660	1.00	0.00	H
ATOM	5649	CA	THR	594	15.724	94.880	54.543	1.00	0.00	C
ATOM	5650	CB	THR	594	14.626	95.896	54.430	1.00	0.00	C
ATOM	5651	OG1	THR	594	14.577	96.698	55.601	1.00	0.00	O
ATOM	5652	HG1	THR	594	15.402	97.155	55.718	1.00	0.00	H
ATOM	5653	CG2	THR	594	13.291	95.157	54.240	1.00	0.00	C
ATOM	5654	C	THR	594	15.687	94.056	53.281	1.00	0.00	C
ATOM	5655	O	THR	594	15.172	92.940	53.248	1.00	0.00	O
ATOM	5656	N	MET	595	16.296	94.588	52.214	1.00	0.00	N
ATOM	5657	HN	MET	595	16.826	95.445	52.376	1.00	0.00	H
ATOM	5658	CA	MET	595	16.288	94.088	50.864	1.00	0.00	C
ATOM	5659	CB	MET	595	16.862	95.084	49.843	1.00	0.00	C
ATOM	5660	CG	MET	595	15.976	96.307	49.608	1.00	0.00	C
ATOM	5661	SD	MET	595	16.607	97.442	48.339	1.00	0.00	S
ATOM	5662	CE	MET	595	16.339	96.289	46.960	1.00	0.00	C
ATOM	5663	C	MET	595	17.095	92.822	50.725	1.00	0.00	C
ATOM	5664	O	MET	595	17.201	92.258	49.637	1.00	0.00	O
ATOM	5665	N	GLN	596	17.659	92.334	51.836	1.00	0.00	N
ATOM	5666	HN	GLN	596	17.220	92.614	52.713	1.00	0.00	H
ATOM	5667	CA	GLN	596	18.799	91.470	51.961	1.00	0.00	C
ATOM	5668	CB	GLN	596	18.950	90.931	53.387	1.00	0.00	C
ATOM	5669	CG	GLN	596	20.287	90.229	53.584	1.00	0.00	C
ATOM	5670	CD	GLN	596	20.467	89.975	55.067	1.00	0.00	C
ATOM	5671	OE1	GLN	596	21.499	89.465	55.493	1.00	0.00	O
ATOM	5672	NE2	GLN	596	19.444	90.350	55.879	1.00	0.00	N
ATOM	5673	1HE2	GLN	596	19.565	90.179	56.877	1.00	0.00	H
ATOM	5674	2HE2	GLN	596	18.586	90.774	55.525	1.00	0.00	H
ATOM	5675	C	GLN	596	19.093	90.299	51.025	1.00	0.00	C
ATOM	5676	O	GLN	596	20.258	90.162	50.665	1.00	0.00	O
ATOM	5677	N	THR	597	18.187	89.418	50.565	1.00	0.00	N
ATOM	5678	HN	THR	597	17.182	89.573	50.646	1.00	0.00	H
ATOM	5679	CA	THR	597	18.766	88.185	49.921	1.00	0.00	C
ATOM	5680	CB	THR	597	18.303	86.947	50.626	1.00	0.00	C
ATOM	5681	OG1	THR	597	16.888	86.855	50.550	1.00	0.00	O
ATOM	5682	HG1	THR	597	16.594	86.070	50.997	1.00	0.00	H
ATOM	5683	CG2	THR	597	18.745	87.004	52.099	1.00	0.00	C
ATOM	5684	C	THR	597	18.593	87.857	48.297	1.00	0.00	C
ATOM	5685	O	THR	597	18.364	88.965	47.788	1.00	0.00	O
ATOM	5686	N	LEU	598	18.806	86.501	47.549	1.00	0.00	N
ATOM	5687	CA	LEU	598	18.621	85.748	46.089	1.00	0.00	C
ATOM	5688	CB	LEU	598	18.923	86.708	44.917	1.00	0.00	C
ATOM	5689	CG	LEU	598	17.745	87.544	44.378	1.00	0.00	C
ATOM	5690	CD1	LEU	598	17.073	88.418	45.444	1.00	0.00	C
ATOM	5691	CD2	LEU	598	18.205	88.361	43.159	1.00	0.00	C
ATOM	5692	C	LEU	598	19.225	84.266	45.439	1.00	0.00	C
ATOM	5693	O	LEU	598	20.197	84.342	44.679	1.00	0.00	O
ATOM	5694	N	ASP	599	18.676	82.915	45.467	1.00	0.00	N
ATOM	5695	HN	ASP	599	17.790	82.813	45.962	1.00	0.00	H

ATOM	5696	CA	ASP	599	19.259	81.586	44.839	1.00	0.00	C
ATOM	5697	CB	ASP	599	20.025	80.733	45.871	1.00	0.00	C
ATOM	5698	CG	ASP	599	21.282	81.469	46.314	1.00	0.00	C
ATOM	5699	OD1	ASP	599	21.215	82.711	46.507	1.00	0.00	O
ATOM	5700	OD2	ASP	599	22.337	80.797	46.457	1.00	0.00	O
ATOM	5701	C	ASP	599	18.300	80.518	44.103	1.00	0.00	C
ATOM	5702	O	ASP	599	17.088	80.609	44.272	1.00	0.00	O
ATOM	5703	N	GLU	600	18.786	79.437	43.297	1.00	0.00	N
ATOM	5704	HN	GLU	600	19.793	79.277	43.285	1.00	0.00	H
ATOM	5705	CA	GLU	600	17.916	78.505	42.455	1.00	0.00	C
ATOM	5706	CB	GLU	600	17.554	79.171	41.116	1.00	0.00	C
ATOM	5707	CG	GLU	600	17.030	80.601	41.273	1.00	0.00	C
ATOM	5708	CD	GLU	600	18.256	81.504	41.345	1.00	0.00	C
ATOM	5709	OE1	GLU	600	19.318	81.079	40.817	1.00	0.00	O
ATOM	5710	OE2	GLU	600	18.158	82.608	41.947	1.00	0.00	O
ATOM	5711	C	GLU	600	18.395	77.070	42.063	1.00	0.00	C
ATOM	5712	O	GLU	600	19.247	76.465	42.703	1.00	0.00	O
ATOM	5713	N	SER	601	17.738	76.443	41.015	1.00	0.00	N
ATOM	5714	HN	SER	601	16.964	76.981	40.625	1.00	0.00	H
ATOM	5715	CA	SER	601	17.959	75.129	40.359	1.00	0.00	C
ATOM	5716	CB	SER	601	19.344	74.503	40.613	1.00	0.00	C
ATOM	5717	OG	SER	601	19.433	74.010	41.942	1.00	0.00	O
ATOM	5718	HG	SER	601	20.287	73.624	42.099	1.00	0.00	H
ATOM	5719	C	SER	601	16.932	74.173	40.877	1.00	0.00	C
ATOM	5720	O	SER	601	16.391	74.383	41.961	1.00	0.00	O
ATOM	5721	N	ILE	602	16.609	73.101	40.110	1.00	0.00	N
ATOM	5722	HN	ILE	602	17.055	72.935	39.208	1.00	0.00	H
ATOM	5723	CA	ILE	602	15.605	72.207	40.633	1.00	0.00	C
ATOM	5724	CB	ILE	602	14.238	72.595	40.143	1.00	0.00	C
ATOM	5725	CG1	ILE	602	13.892	74.017	40.622	1.00	0.00	C
ATOM	5726	CG2	ILE	602	13.225	71.533	40.587	1.00	0.00	C
ATOM	5727	CD1	ILE	602	12.664	74.615	39.936	1.00	0.00	C
ATOM	5728	C	ILE	602	15.841	70.754	40.282	1.00	0.00	C
ATOM	5729	O	ILE	602	15.959	70.376	39.115	1.00	0.00	O
ATOM	5730	N	PRO	603	15.905	69.925	41.304	1.00	0.00	N
ATOM	5731	CA	PRO	603	16.045	68.492	41.139	1.00	0.00	C
ATOM	5732	CD	PRO	603	16.415	70.369	42.589	1.00	0.00	C
ATOM	5733	CB	PRO	603	16.563	67.957	42.477	1.00	0.00	C
ATOM	5734	CG	PRO	603	16.356	69.114	43.472	1.00	0.00	C
ATOM	5735	C	PRO	603	14.819	67.763	40.646	1.00	0.00	C
ATOM	5736	O	PRO	603	14.980	66.703	40.040	1.00	0.00	O
ATOM	5737	N	PRO	604	13.625	68.243	40.865	1.00	0.00	N
ATOM	5738	CA	PRO	604	12.485	67.482	40.418	1.00	0.00	C
ATOM	5739	CD	PRO	604	13.337	68.928	42.115	1.00	0.00	C
ATOM	5740	CB	PRO	604	11.274	68.112	41.096	1.00	0.00	C
ATOM	5741	CG	PRO	604	11.858	68.626	42.427	1.00	0.00	C
ATOM	5742	C	PRO	604	12.410	67.370	38.932	1.00	0.00	C
ATOM	5743	O	PRO	604	12.757	68.319	38.234	1.00	0.00	O
ATOM	5744	N	VAL	605	11.926	66.214	38.443	1.00	0.00	N
ATOM	5745	HN	VAL	605	11.579	65.516	39.101	1.00	0.00	H
ATOM	5746	CA	VAL	605	11.875	65.916	37.041	1.00	0.00	C
ATOM	5747	CB	VAL	605	12.562	64.613	36.713	1.00	0.00	C
ATOM	5748	CG1	VAL	605	11.744	63.453	37.309	1.00	0.00	C
ATOM	5749	CG2	VAL	605	12.812	64.527	35.198	1.00	0.00	C
ATOM	5750	C	VAL	605	10.425	65.835	36.658	1.00	0.00	C
ATOM	5751	O	VAL	605	9.605	66.586	37.184	1.00	0.00	O
ATOM	5752	N	SER	606	10.071	65.008	35.651	1.00	0.00	N
ATOM	5753	HN	SER	606	10.780	64.478	35.144	1.00	0.00	H
ATOM	5754	CA	SER	606	8.679	64.885	35.303	1.00	0.00	C
ATOM	5755	CB	SER	606	8.182	66.144	34.570	1.00	0.00	C
ATOM	5756	OG	SER	606	6.812	66.023	34.227	1.00	0.00	O
ATOM	5757	HG	SER	606	6.505	66.800	33.775	1.00	0.00	H
ATOM	5758	C	SER	606	8.513	63.711	34.370	1.00	0.00	C
ATOM	5759	O	SER	606	8.215	63.894	33.191	1.00	0.00	O
ATOM	5760	N	PHE	607	8.592	62.457	34.868	1.00	0.00	N
ATOM	5761	HN	PHE	607	8.667	62.270	35.868	1.00	0.00	H
ATOM	5762	CA	PHE	607	8.562	61.401	33.885	1.00	0.00	C
ATOM	5763	CB	PHE	607	8.995	60.007	34.399	1.00	0.00	C
ATOM	5764	CG	PHE	607	7.903	59.388	35.195	1.00	0.00	C
ATOM	5765	CD1	PHE	607	7.761	59.629	36.540	1.00	0.00	C
ATOM	5766	CD2	PHE	607	6.998	58.563	34.565	1.00	0.00	C
ATOM	5767	CE1	PHE	607	6.735	59.040	37.242	1.00	0.00	C
ATOM	5768	CE2	PHE	607	5.973	57.972	35.262	1.00	0.00	C
ATOM	5769	CZ	PHE	607	5.840	58.211	36.607	1.00	0.00	C

ATOM	5770	C	PHE	607	7.190	61.301	33.276	1.00	0.00	C
ATOM	5771	O	PHE	607	6.189	61.119	33.968	1.00	0.00	O
ATOM	5772	N	TRP	608	7.109	61.498	31.940	1.00	0.00	N
ATOM	5773	HN	TRP	608	7.954	61.773	31.439	1.00	0.00	H
ATOM	5774	CA	TRP	608	5.889	61.339	31.187	1.00	0.00	C
ATOM	5775	CB	TRP	608	5.296	59.920	31.249	1.00	0.00	C
ATOM	5776	CG	TRP	608	5.773	58.976	30.168	1.00	0.00	C
ATOM	5777	CD2	TRP	608	7.077	58.379	30.077	1.00	0.00	C
ATOM	5778	CD1	TRP	608	5.079	58.548	29.074	1.00	0.00	C
ATOM	5779	NE1	TRP	608	5.858	57.711	28.316	1.00	0.00	N
ATOM	5780	HE1	TRP	608	5.572	57.248	27.453	1.00	0.00	H
ATOM	5781	CE2	TRP	608	7.093	57.601	28.918	1.00	0.00	C
ATOM	5782	CE3	TRP	608	8.172	58.475	30.885	1.00	0.00	C
ATOM	5783	CZ2	TRP	608	8.208	56.904	28.549	1.00	0.00	C
ATOM	5784	CZ3	TRP	608	9.293	57.765	30.513	1.00	0.00	C
ATOM	5785	CH2	TRP	608	9.311	56.994	29.369	1.00	0.00	C
ATOM	5786	C	TRP	608	4.843	62.313	31.632	1.00	0.00	C
ATOM	5787	O	TRP	608	3.767	62.377	31.040	1.00	0.00	O
ATOM	5788	N	ARG	609	5.123	63.119	32.671	1.00	0.00	N
ATOM	5789	HN	ARG	609	6.038	63.087	33.120	1.00	0.00	H
ATOM	5790	CA	ARG	609	4.116	64.023	33.136	1.00	0.00	C
ATOM	5791	CB	ARG	609	4.437	64.617	34.519	1.00	0.00	C
ATOM	5792	CG	ARG	609	3.380	65.583	35.058	1.00	0.00	C
ATOM	5793	CD	ARG	609	3.367	65.679	36.589	1.00	0.00	C
ATOM	5794	NE	ARG	609	4.665	66.248	37.050	1.00	0.00	N
ATOM	5795	HE	ARG	609	5.476	65.638	37.153	1.00	0.00	H
ATOM	5796	CZ	ARG	609	4.779	67.578	37.336	1.00	0.00	C
ATOM	5797	NH1	ARG	609	3.703	68.407	37.195	1.00	0.00	N
ATOM	5798	1HH1	ARG	609	3.788	69.401	37.409	1.00	0.00	H
ATOM	5799	2HH1	ARG	609	2.814	68.037	36.857	1.00	0.00	H
ATOM	5800	NH2	ARG	609	5.968	68.073	37.788	1.00	0.00	N
ATOM	5801	1HH2	ARG	609	6.053	69.067	38.002	1.00	0.00	H
ATOM	5802	2HH2	ARG	609	6.772	67.454	37.893	1.00	0.00	H
ATOM	5803	C	ARG	609	3.941	65.103	32.128	1.00	0.00	C
ATOM	5804	O	ARG	609	2.825	65.490	31.794	1.00	0.00	O
ATOM	5805	N	ILE	610	5.070	65.573	31.583	1.00	0.00	N
ATOM	5806	HN	ILE	610	5.954	65.166	31.888	1.00	0.00	H
ATOM	5807	CA	ILE	610	5.114	66.605	30.605	1.00	0.00	C
ATOM	5808	CB	ILE	610	6.499	66.902	30.122	1.00	0.00	C
ATOM	5809	CG1	ILE	610	7.442	67.221	31.279	1.00	0.00	C
ATOM	5810	CG2	ILE	610	6.402	68.063	29.126	1.00	0.00	C
ATOM	5811	CD1	ILE	610	8.906	67.269	30.845	1.00	0.00	C
ATOM	5812	C	ILE	610	4.399	66.080	29.423	1.00	0.00	C
ATOM	5813	O	ILE	610	3.995	66.871	28.586	1.00	0.00	O
ATOM	5814	N	MET	611	4.404	64.748	29.215	1.00	0.00	N
ATOM	5815	HN	MET	611	4.936	64.135	29.833	1.00	0.00	H
ATOM	5816	CA	MET	611	3.656	64.194	28.119	1.00	0.00	C
ATOM	5817	CB	MET	611	3.936	62.700	27.893	1.00	0.00	C
ATOM	5818	CG	MET	611	3.291	62.162	26.613	1.00	0.00	C
ATOM	5819	SD	MET	611	3.609	60.405	26.268	1.00	0.00	S
ATOM	5820	CE	MET	611	2.552	59.784	27.608	1.00	0.00	C
ATOM	5821	C	MET	611	2.189	64.345	28.396	1.00	0.00	C
ATOM	5822	O	MET	611	1.421	64.786	27.541	1.00	0.00	O
ATOM	5823	N	LYS	612	1.766	64.006	29.630	1.00	0.00	N
ATOM	5824	HN	LYS	612	2.441	63.711	30.335	1.00	0.00	H
ATOM	5825	CA	LYS	612	0.368	64.058	29.956	1.00	0.00	C
ATOM	5826	CB	LYS	612	0.095	63.615	31.402	1.00	0.00	C
ATOM	5827	CG	LYS	612	0.494	62.167	31.694	1.00	0.00	C
ATOM	5828	CD	LYS	612	0.550	61.849	33.189	1.00	0.00	C
ATOM	5829	CE	LYS	612	0.956	60.408	33.510	1.00	0.00	C
ATOM	5830	NZ	LYS	612	2.416	60.235	33.333	1.00	0.00	N
ATOM	5831	HZ1	LYS	612	2.686	59.275	33.547	1.00	0.00	H
ATOM	5832	HZ2	LYS	612	2.949	60.911	33.880	1.00	0.00	H
ATOM	5833	HZ3	LYS	612	2.723	60.519	32.403	1.00	0.00	H
ATOM	5834	C	LYS	612	-0.048	65.484	29.845	1.00	0.00	C
ATOM	5835	O	LYS	612	-1.024	65.835	29.182	1.00	0.00	O
ATOM	5836	N	LEU	613	0.751	66.351	30.475	1.00	0.00	N
ATOM	5837	HN	LEU	613	1.556	65.982	30.981	1.00	0.00	H
ATOM	5838	CA	LEU	613	0.544	67.760	30.481	1.00	0.00	C
ATOM	5839	CB	LEU	613	1.575	68.506	31.346	1.00	0.00	C
ATOM	5840	CG	LEU	613	1.458	68.183	32.848	1.00	0.00	C
ATOM	5841	CD1	LEU	613	2.503	68.952	33.670	1.00	0.00	C
ATOM	5842	CD2	LEU	613	0.025	68.411	33.356	1.00	0.00	C
ATOM	5843	C	LEU	613	0.704	68.218	29.073	1.00	0.00	C

ATOM	5844	O	LEU	613	0.097	69.211	28.684	1.00	0.00	O
ATOM	5845	N	ASN	614	1.530	67.497	28.282	1.00	0.00	N
ATOM	5846	HN	ASN	614	1.962	66.653	28.658	1.00	0.00	H
ATOM	5847	CA	ASN	614	1.818	67.885	26.924	1.00	0.00	C
ATOM	5848	CB	ASN	614	2.509	66.825	26.030	1.00	0.00	C
ATOM	5849	CG	ASN	614	4.007	67.060	25.881	1.00	0.00	C
ATOM	5850	OD1	ASN	614	4.533	68.090	26.297	1.00	0.00	O
ATOM	5851	ND2	ASN	614	4.709	66.079	25.252	1.00	0.00	N
ATOM	5852	1HD2	ASN	614	5.712	66.236	25.152	1.00	0.00	H
ATOM	5853	2HD2	ASN	614	4.272	65.224	24.907	1.00	0.00	H
ATOM	5854	C	ASN	614	0.511	68.051	26.260	1.00	0.00	C
ATOM	5855	O	ASN	614	0.172	69.130	25.789	1.00	0.00	O
ATOM	5856	N	LEU	615	-0.305	67.001	26.349	1.00	0.00	N
ATOM	5857	HN	LEU	615	0.016	66.184	26.868	1.00	0.00	H
ATOM	5858	CA	LEU	615	-1.603	66.958	25.757	1.00	0.00	C
ATOM	5859	CB	LEU	615	-2.348	65.694	26.234	1.00	0.00	C
ATOM	5860	CG	LEU	615	-3.825	65.553	25.816	1.00	0.00	C
ATOM	5861	CD1	LEU	615	-3.974	65.210	24.330	1.00	0.00	C
ATOM	5862	CD2	LEU	615	-4.566	64.559	26.726	1.00	0.00	C
ATOM	5863	C	LEU	615	-2.366	68.120	26.306	1.00	0.00	C
ATOM	5864	O	LEU	615	-3.156	68.741	25.599	1.00	0.00	O
ATOM	5865	N	THR	616	-2.161	68.444	27.595	1.00	0.00	N
ATOM	5866	HN	THR	616	-1.494	67.918	28.160	1.00	0.00	H
ATOM	5867	CA	THR	616	-2.892	69.539	28.167	1.00	0.00	C
ATOM	5868	CB	THR	616	-2.502	69.806	29.594	1.00	0.00	C
ATOM	5869	OG1	THR	616	-2.721	68.650	30.391	1.00	0.00	O
ATOM	5870	HG1	THR	616	-2.475	68.819	31.293	1.00	0.00	H
ATOM	5871	CG2	THR	616	-3.340	70.981	30.125	1.00	0.00	C
ATOM	5872	C	THR	616	-2.542	70.756	27.373	1.00	0.00	C
ATOM	5873	O	THR	616	-3.399	71.539	26.971	1.00	0.00	O
ATOM	5874	N	GLU	617	-1.241	70.900	27.097	1.00	0.00	N
ATOM	5875	HN	GLU	617	-0.613	70.191	27.476	1.00	0.00	H
ATOM	5876	CA	GLU	617	-0.637	71.944	26.326	1.00	0.00	C
ATOM	5877	CB	GLU	617	0.902	71.983	26.400	1.00	0.00	C
ATOM	5878	CG	GLU	617	1.463	72.622	27.676	1.00	0.00	C
ATOM	5879	CD	GLU	617	1.392	71.623	28.821	1.00	0.00	C
ATOM	5880	OE1	GLU	617	0.341	71.593	29.515	1.00	0.00	O
ATOM	5881	OE2	GLU	617	2.390	70.879	29.020	1.00	0.00	O
ATOM	5882	C	GLU	617	-1.013	71.752	24.899	1.00	0.00	C
ATOM	5883	O	GLU	617	-0.348	72.295	24.024	1.00	0.00	O
ATOM	5884	N	TRP	618	-1.948	70.830	24.607	1.00	0.00	N
ATOM	5885	HN	TRP	618	-2.452	70.344	25.349	1.00	0.00	H
ATOM	5886	CA	TRP	618	-2.219	70.546	23.228	1.00	0.00	C
ATOM	5887	CB	TRP	618	-1.535	69.204	22.916	1.00	0.00	C
ATOM	5888	CG	TRP	618	-1.540	68.626	21.529	1.00	0.00	C
ATOM	5889	CD2	TRP	618	-2.256	67.432	21.191	1.00	0.00	C
ATOM	5890	CD1	TRP	618	-0.819	68.973	20.424	1.00	0.00	C
ATOM	5891	NE1	TRP	618	-1.029	68.052	19.424	1.00	0.00	N
ATOM	5892	HE1	TRP	618	-0.603	68.071	18.497	1.00	0.00	H
ATOM	5893	CE2	TRP	618	-1.913	67.098	19.886	1.00	0.00	C
ATOM	5894	CE3	TRP	618	-3.105	66.660	21.924	1.00	0.00	C
ATOM	5895	CZ2	TRP	618	-2.415	65.973	19.295	1.00	0.00	C
ATOM	5896	CZ3	TRP	618	-3.639	65.547	21.317	1.00	0.00	C
ATOM	5897	CH2	TRP	618	-3.298	65.209	20.025	1.00	0.00	C
ATOM	5898	C	TRP	618	-3.702	70.450	22.943	1.00	0.00	C
ATOM	5899	O	TRP	618	-4.442	69.800	23.681	1.00	0.00	O
ATOM	5900	N	PRO	619	-4.183	71.181	21.953	1.00	0.00	N
ATOM	5901	CA	PRO	619	-5.532	71.059	21.450	1.00	0.00	C
ATOM	5902	CD	PRO	619	-3.494	72.340	21.417	1.00	0.00	C
ATOM	5903	CB	PRO	619	-5.755	72.268	20.544	1.00	0.00	C
ATOM	5904	CG	PRO	619	-4.332	72.740	20.190	1.00	0.00	C
ATOM	5905	C	PRO	619	-5.787	69.746	20.764	1.00	0.00	C
ATOM	5906	O	PRO	619	-6.516	68.919	21.310	1.00	0.00	O
ATOM	5907	N	TYR	620	-5.229	69.561	19.537	1.00	0.00	N
ATOM	5908	HN	TYR	620	-4.771	70.353	19.085	1.00	0.00	H
ATOM	5909	CA	TYR	620	-5.256	68.295	18.847	1.00	0.00	C
ATOM	5910	CB	TYR	620	-6.656	67.672	18.666	1.00	0.00	C
ATOM	5911	CG	TYR	620	-7.485	68.503	17.755	1.00	0.00	C
ATOM	5912	CD1	TYR	620	-7.342	68.386	16.393	1.00	0.00	C
ATOM	5913	CD2	TYR	620	-8.419	69.380	18.258	1.00	0.00	C
ATOM	5914	CE1	TYR	620	-8.109	69.143	15.541	1.00	0.00	C
ATOM	5915	CE2	TYR	620	-9.189	70.140	17.410	1.00	0.00	C
ATOM	5916	CZ	TYR	620	-9.035	70.024	16.049	1.00	0.00	C
ATOM	5917	OH	TYR	620	-9.827	70.802	15.179	1.00	0.00	O

ATOM	5918	HH	TYR	620	-10.467	71.411	15.530	1.00	0.00	H
ATOM	5919	C	TYR	620	-4.573	68.433	17.505	1.00	0.00	C
ATOM	5920	O	TYR	620	-4.811	69.380	16.756	1.00	0.00	O
ATOM	5921	N	PHE	621	-3.554	67.584	17.293	1.00	0.00	N
ATOM	5922	HN	PHE	621	-3.340	66.986	18.091	1.00	0.00	H
ATOM	5923	CA	PHE	621	-2.711	67.360	16.155	1.00	0.00	C
ATOM	5924	CB	PHE	621	-1.252	67.789	16.348	1.00	0.00	C
ATOM	5925	CG	PHE	621	-1.377	69.271	16.278	1.00	0.00	C
ATOM	5926	CD1	PHE	621	-1.749	69.851	15.089	1.00	0.00	C
ATOM	5927	CD2	PHE	621	-1.203	70.075	17.381	1.00	0.00	C
ATOM	5928	CE1	PHE	621	-1.897	71.210	14.981	1.00	0.00	C
ATOM	5929	CE2	PHE	621	-1.347	71.439	17.280	1.00	0.00	C
ATOM	5930	CZ	PHE	621	-1.692	72.009	16.079	1.00	0.00	C
ATOM	5931	C	PHE	621	-2.787	66.075	15.404	1.00	0.00	C
ATOM	5932	O	PHE	621	-1.821	65.818	14.692	1.00	0.00	O
ATOM	5933	N	VAL	622	-3.767	65.178	15.632	1.00	0.00	N
ATOM	5934	HN	VAL	622	-4.559	65.454	16.213	1.00	0.00	H
ATOM	5935	CA	VAL	622	-3.739	63.841	15.086	1.00	0.00	C
ATOM	5936	CB	VAL	622	-5.050	63.123	15.224	1.00	0.00	C
ATOM	5937	CG1	VAL	622	-5.368	63.010	16.721	1.00	0.00	C
ATOM	5938	CG2	VAL	622	-6.126	63.852	14.400	1.00	0.00	C
ATOM	5939	C	VAL	622	-3.407	63.891	13.631	1.00	0.00	C
ATOM	5940	O	VAL	622	-2.738	62.998	13.112	1.00	0.00	O
ATOM	5941	N	VAL	623	-3.834	64.956	12.942	1.00	0.00	N
ATOM	5942	HN	VAL	623	-4.386	65.675	13.409	1.00	0.00	H
ATOM	5943	CA	VAL	623	-3.520	65.090	11.554	1.00	0.00	C
ATOM	5944	CB	VAL	623	-3.967	66.410	11.013	1.00	0.00	C
ATOM	5945	CG1	VAL	623	-3.434	67.515	11.944	1.00	0.00	C
ATOM	5946	CG2	VAL	623	-3.442	66.532	9.573	1.00	0.00	C
ATOM	5947	C	VAL	623	-2.030	65.010	11.361	1.00	0.00	C
ATOM	5948	O	VAL	623	-1.558	64.262	10.507	1.00	0.00	O
ATOM	5949	N	GLY	624	-1.232	65.751	12.155	1.00	0.00	N
ATOM	5950	HN	GLY	624	-1.632	66.325	12.898	1.00	0.00	H
ATOM	5951	CA	GLY	624	0.186	65.723	11.943	1.00	0.00	C
ATOM	5952	C	GLY	624	0.674	64.320	12.104	1.00	0.00	C
ATOM	5953	O	GLY	624	1.306	63.778	11.203	1.00	0.00	O
ATOM	5954	N	VAL	625	0.314	63.653	13.215	1.00	0.00	N
ATOM	5955	HN	VAL	625	-0.304	64.096	13.895	1.00	0.00	H
ATOM	5956	CA	VAL	625	0.795	62.320	13.448	1.00	0.00	C
ATOM	5957	CB	VAL	625	0.246	61.704	14.701	1.00	0.00	C
ATOM	5958	CG1	VAL	625	0.736	60.248	14.779	1.00	0.00	C
ATOM	5959	CG2	VAL	625	0.665	62.570	15.902	1.00	0.00	C
ATOM	5960	C	VAL	625	0.331	61.477	12.305	1.00	0.00	C
ATOM	5961	O	VAL	625	0.995	60.518	11.916	1.00	0.00	O
ATOM	5962	N	PHE	626	-0.838	61.824	11.740	1.00	0.00	N
ATOM	5963	HN	PHE	626	-1.329	62.653	12.074	1.00	0.00	H
ATOM	5964	CA	PHE	626	-1.407	61.051	10.677	1.00	0.00	C
ATOM	5965	CB	PHE	626	-2.738	61.651	10.187	1.00	0.00	C
ATOM	5966	CG	PHE	626	-3.421	60.663	9.302	1.00	0.00	C
ATOM	5967	CD1	PHE	626	-3.102	60.562	7.968	1.00	0.00	C
ATOM	5968	CD2	PHE	626	-4.396	59.839	9.815	1.00	0.00	C
ATOM	5969	CE1	PHE	626	-3.739	59.649	7.160	1.00	0.00	C
ATOM	5970	CE2	PHE	626	-5.037	58.923	9.013	1.00	0.00	C
ATOM	5971	CZ	PHE	626	-4.709	58.827	7.682	1.00	0.00	C
ATOM	5972	C	PHE	626	-0.457	61.022	9.516	1.00	0.00	C
ATOM	5973	O	PHE	626	-0.046	59.952	9.070	1.00	0.00	O
ATOM	5974	N	CYS	627	-0.022	62.200	9.031	1.00	0.00	N
ATOM	5975	HN	CYS	627	-0.316	63.071	9.473	1.00	0.00	H
ATOM	5976	CA	CYS	627	0.854	62.236	7.895	1.00	0.00	C
ATOM	5977	CB	CYS	627	1.099	63.663	7.360	1.00	0.00	C
ATOM	5978	SG	CYS	627	1.825	64.800	8.576	1.00	0.00	S
ATOM	5979	C	CYS	627	2.152	61.610	8.293	1.00	0.00	C
ATOM	5980	O	CYS	627	2.884	61.093	7.450	1.00	0.00	O
ATOM	5981	N	ALA	628	2.473	61.636	9.602	1.00	0.00	N
ATOM	5982	HN	ALA	628	1.829	62.049	10.277	1.00	0.00	H
ATOM	5983	CA	ALA	628	3.722	61.082	10.046	1.00	0.00	C
ATOM	5984	CB	ALA	628	3.864	61.098	11.576	1.00	0.00	C
ATOM	5985	C	ALA	628	3.736	59.663	9.609	1.00	0.00	C
ATOM	5986	O	ALA	628	4.702	59.185	9.017	1.00	0.00	O
ATOM	5987	N	ILE	629	2.609	58.975	9.816	1.00	0.00	N
ATOM	5988	HN	ILE	629	1.800	59.429	10.240	1.00	0.00	H
ATOM	5989	CA	ILE	629	2.548	57.603	9.440	1.00	0.00	C
ATOM	5990	CB	ILE	629	1.230	57.009	9.825	1.00	0.00	C
ATOM	5991	CG1	ILE	629	1.044	57.222	11.336	1.00	0.00	C

ATOM	5992	CG2	ILE	629	1.206	55.527	9.407	1.00	0.00	C
ATOM	5993	CD1	ILE	629	-0.384	57.020	11.827	1.00	0.00	C
ATOM	5994	C	ILE	629	2.734	57.514	7.951	1.00	0.00	C
ATOM	5995	O	ILE	629	3.502	56.679	7.476	1.00	0.00	O
ATOM	5996	N	ILE	630	2.075	58.395	7.165	1.00	0.00	N
ATOM	5997	HN	ILE	630	1.522	59.147	7.576	1.00	0.00	H
ATOM	5998	CA	ILE	630	2.171	58.249	5.735	1.00	0.00	C
ATOM	5999	CB	ILE	630	1.319	59.174	4.910	1.00	0.00	C
ATOM	6000	CG1	ILE	630	1.823	60.620	4.980	1.00	0.00	C
ATOM	6001	CG2	ILE	630	-0.131	59.008	5.388	1.00	0.00	C
ATOM	6002	CD1	ILE	630	1.404	61.474	3.790	1.00	0.00	C
ATOM	6003	C	ILE	630	3.575	58.477	5.274	1.00	0.00	C
ATOM	6004	O	ILE	630	4.066	57.734	4.424	1.00	0.00	O
ATOM	6005	N	ASN	631	4.270	59.500	5.818	1.00	0.00	N
ATOM	6006	HN	ASN	631	3.880	60.065	6.572	1.00	0.00	H
ATOM	6007	CA	ASN	631	5.577	59.759	5.292	1.00	0.00	C
ATOM	6008	CB	ASN	631	6.260	61.071	5.745	1.00	0.00	C
ATOM	6009	CG	ASN	631	6.624	61.116	7.216	1.00	0.00	C
ATOM	6010	OD1	ASN	631	6.777	60.093	7.876	1.00	0.00	O
ATOM	6011	ND2	ASN	631	6.793	62.359	7.742	1.00	0.00	N
ATOM	6012	1HD2	ASN	631	6.666	63.209	7.193	1.00	0.00	H
ATOM	6013	2HD2	ASN	631	7.038	62.389	8.732	1.00	0.00	H
ATOM	6014	C	ASN	631	6.423	58.563	5.528	1.00	0.00	C
ATOM	6015	O	ASN	631	7.275	58.224	4.705	1.00	0.00	O
ATOM	6016	N	GLY	632	6.177	57.857	6.644	1.00	0.00	N
ATOM	6017	HN	GLY	632	5.453	58.144	7.302	1.00	0.00	H
ATOM	6018	CA	GLY	632	6.963	56.697	6.873	1.00	0.00	C
ATOM	6019	C	GLY	632	6.746	55.735	5.749	1.00	0.00	C
ATOM	6020	O	GLY	632	7.701	55.247	5.151	1.00	0.00	O
ATOM	6021	N	GLY	633	5.478	55.486	5.382	1.00	0.00	N
ATOM	6022	HN	GLY	633	4.714	55.979	5.844	1.00	0.00	H
ATOM	6023	CA	GLY	633	5.184	54.534	4.347	1.00	0.00	C
ATOM	6024	C	GLY	633	5.841	55.005	3.093	1.00	0.00	C
ATOM	6025	O	GLY	633	6.318	54.215	2.278	1.00	0.00	O
ATOM	6026	N	LEU	634	5.907	56.333	2.928	1.00	0.00	N
ATOM	6027	HN	LEU	634	5.583	56.943	3.679	1.00	0.00	H
ATOM	6028	CA	LEU	634	6.418	56.918	1.732	1.00	0.00	C
ATOM	6029	CB	LEU	634	6.472	58.452	1.869	1.00	0.00	C
ATOM	6030	CG	LEU	634	6.969	59.215	0.630	1.00	0.00	C
ATOM	6031	CD1	LEU	634	6.032	59.006	-0.572	1.00	0.00	C
ATOM	6032	CD2	LEU	634	7.168	60.703	0.963	1.00	0.00	C
ATOM	6033	C	LEU	634	7.808	56.384	1.511	1.00	0.00	C
ATOM	6034	O	LEU	634	8.168	56.059	0.378	1.00	0.00	O
ATOM	6035	N	GLN	635	8.626	56.268	2.583	1.00	0.00	N
ATOM	6036	HN	GLN	635	8.287	56.506	3.515	1.00	0.00	H
ATOM	6037	CA	GLN	635	9.978	55.807	2.399	1.00	0.00	C
ATOM	6038	CB	GLN	635	10.865	55.978	3.654	1.00	0.00	C
ATOM	6039	CG	GLN	635	12.377	55.872	3.398	1.00	0.00	C
ATOM	6040	CD	GLN	635	12.761	54.461	2.963	1.00	0.00	C
ATOM	6041	OE1	GLN	635	12.340	53.471	3.559	1.00	0.00	O
ATOM	6042	NE2	GLN	635	13.574	54.366	1.877	1.00	0.00	N
ATOM	6043	1HE2	GLN	635	13.923	55.187	1.383	1.00	0.00	H
ATOM	6044	2HE2	GLN	635	13.831	53.423	1.586	1.00	0.00	H
ATOM	6045	C	GLN	635	10.016	54.377	1.935	1.00	0.00	C
ATOM	6046	O	GLN	635	10.612	54.117	0.889	1.00	0.00	O
ATOM	6047	N	PRO	636	9.392	53.422	2.587	1.00	0.00	N
ATOM	6048	CA	PRO	636	9.527	52.108	2.026	1.00	0.00	C
ATOM	6049	CD	PRO	636	9.449	53.353	4.036	1.00	0.00	C
ATOM	6050	CB	PRO	636	9.061	51.146	3.102	1.00	0.00	C
ATOM	6051	CG	PRO	636	9.541	51.863	4.380	1.00	0.00	C
ATOM	6052	C	PRO	636	8.903	51.989	0.673	1.00	0.00	C
ATOM	6053	O	PRO	636	9.291	51.113	-0.101	1.00	0.00	O
ATOM	6054	N	ALA	637	7.963	52.886	0.348	1.00	0.00	N
ATOM	6055	HN	ALA	637	7.692	53.601	1.024	1.00	0.00	H
ATOM	6056	CA	ALA	637	7.333	52.852	-0.941	1.00	0.00	C
ATOM	6057	CB	ALA	637	6.309	53.985	-1.124	1.00	0.00	C
ATOM	6058	C	ALA	637	8.400	53.037	-1.977	1.00	0.00	C
ATOM	6059	O	ALA	637	8.414	52.362	-3.006	1.00	0.00	O
ATOM	6060	N	PHE	638	9.352	53.947	-1.707	1.00	0.00	N
ATOM	6061	HN	PHE	638	9.320	54.448	-0.819	1.00	0.00	H
ATOM	6062	CA	PHE	638	10.412	54.234	-2.630	1.00	0.00	C
ATOM	6063	CB	PHE	638	11.378	55.317	-2.118	1.00	0.00	C
ATOM	6064	CG	PHE	638	12.586	55.290	-2.991	1.00	0.00	C
ATOM	6065	CD1	PHE	638	12.613	55.934	-4.207	1.00	0.00	C

ATOM	6066	CD2	PHE	638	13.707	54.606	-2.580	1.00	0.00	C
ATOM	6067	CE1	PHE	638	13.742	55.893	-4.992	1.00	0.00	C
ATOM	6068	CE2	PHE	638	14.837	54.561	-3.360	1.00	0.00	C
ATOM	6069	CZ	PHE	638	14.855	55.206	-4.572	1.00	0.00	C
ATOM	6070	C	PHE	638	11.206	53.007	-2.836	1.00	0.00	C
ATOM	6071	O	PHE	638	11.659	52.716	-3.944	1.00	0.00	O
ATOM	6072	N	ALA	639	11.380	52.251	-1.748	1.00	0.00	N
ATOM	6073	HN	ALA	639	10.943	52.513	-0.864	1.00	0.00	H
ATOM	6074	CA	ALA	639	12.177	51.082	-1.832	1.00	0.00	C
ATOM	6075	CB	ALA	639	12.135	50.348	-0.500	1.00	0.00	C
ATOM	6076	C	ALA	639	11.600	50.195	-2.913	1.00	0.00	C
ATOM	6077	O	ALA	639	12.339	49.674	-3.747	1.00	0.00	O
ATOM	6078	N	ILE	640	10.263	50.020	-2.945	1.00	0.00	N
ATOM	6079	HN	ILE	640	9.687	50.506	-2.257	1.00	0.00	H
ATOM	6080	CA	ILE	640	9.616	49.169	-3.919	1.00	0.00	C
ATOM	6081	CB	ILE	640	8.221	48.775	-3.501	1.00	0.00	C
ATOM	6082	CG1	ILE	640	7.752	47.491	-4.213	1.00	0.00	C
ATOM	6083	CG2	ILE	640	7.288	49.973	-3.734	1.00	0.00	C
ATOM	6084	CD1	ILE	640	7.568	47.616	-5.723	1.00	0.00	C
ATOM	6085	C	ILE	640	9.573	49.744	-5.310	1.00	0.00	C
ATOM	6086	O	ILE	640	9.837	49.037	-6.283	1.00	0.00	O
ATOM	6087	N	ILE	641	9.254	51.047	-5.455	1.00	0.00	N
ATOM	6088	HN	ILE	641	9.153	51.644	-4.634	1.00	0.00	H
ATOM	6089	CA	ILE	641	9.057	51.591	-6.773	1.00	0.00	C
ATOM	6090	CB	ILE	641	8.653	53.049	-6.759	1.00	0.00	C
ATOM	6091	CG1	ILE	641	8.085	53.496	-8.123	1.00	0.00	C
ATOM	6092	CG2	ILE	641	9.845	53.890	-6.272	1.00	0.00	C
ATOM	6093	CD1	ILE	641	9.086	53.447	-9.276	1.00	0.00	C
ATOM	6094	C	ILE	641	10.333	51.413	-7.534	1.00	0.00	C
ATOM	6095	O	ILE	641	10.322	51.053	-8.712	1.00	0.00	O
ATOM	6096	N	PHE	642	11.470	51.655	-6.860	1.00	0.00	N
ATOM	6097	HN	PHE	642	11.408	51.974	-5.893	1.00	0.00	H
ATOM	6098	CA	PHE	642	12.767	51.482	-7.446	1.00	0.00	C
ATOM	6099	CB	PHE	642	13.868	51.930	-6.467	1.00	0.00	C
ATOM	6100	CG	PHE	642	15.186	51.392	-6.909	1.00	0.00	C
ATOM	6101	CD1	PHE	642	15.989	52.092	-7.779	1.00	0.00	C
ATOM	6102	CD2	PHE	642	15.621	50.174	-6.440	1.00	0.00	C
ATOM	6103	CE1	PHE	642	17.203	51.580	-8.176	1.00	0.00	C
ATOM	6104	CE2	PHE	642	16.833	49.656	-6.832	1.00	0.00	C
ATOM	6105	CZ	PHE	642	17.627	50.362	-7.703	1.00	0.00	C
ATOM	6106	C	PHE	642	12.997	50.049	-7.782	1.00	0.00	C
ATOM	6107	O	PHE	642	13.335	49.719	-8.919	1.00	0.00	O
ATOM	6108	N	SER	643	12.750	49.156	-6.807	1.00	0.00	N
ATOM	6109	HN	SER	643	12.359	49.478	-5.922	1.00	0.00	H
ATOM	6110	CA	SER	643	13.025	47.762	-6.986	1.00	0.00	C
ATOM	6111	CB	SER	643	12.503	46.910	-5.819	1.00	0.00	C
ATOM	6112	OG	SER	643	13.067	47.354	-4.597	1.00	0.00	O
ATOM	6113	HG	SER	643	12.744	46.827	-3.875	1.00	0.00	H
ATOM	6114	C	SER	643	12.256	47.316	-8.180	1.00	0.00	C
ATOM	6115	O	SER	643	12.702	46.451	-8.932	1.00	0.00	O
ATOM	6116	N	LYS	644	11.064	47.903	-8.372	1.00	0.00	N
ATOM	6117	HN	LYS	644	10.746	48.632	-7.733	1.00	0.00	H
ATOM	6118	CA	LYS	644	10.239	47.507	-9.471	1.00	0.00	C
ATOM	6119	CB	LYS	644	8.854	48.179	-9.446	1.00	0.00	C
ATOM	6120	CG	LYS	644	7.794	47.453	-10.280	1.00	0.00	C
ATOM	6121	CD	LYS	644	8.108	47.337	-11.771	1.00	0.00	C
ATOM	6122	CE	LYS	644	7.105	46.466	-12.531	1.00	0.00	C
ATOM	6123	NZ	LYS	644	5.759	47.079	-12.498	1.00	0.00	N
ATOM	6124	HZ1	LYS	644	5.091	46.499	-13.005	1.00	0.00	H
ATOM	6125	HZ2	LYS	644	5.770	48.038	-12.847	1.00	0.00	H
ATOM	6126	HZ3	LYS	644	5.451	47.268	-11.544	1.00	0.00	H
ATOM	6127	C	LYS	644	10.892	47.871	-10.768	1.00	0.00	C
ATOM	6128	O	LYS	644	10.999	47.031	-11.658	1.00	0.00	O
ATOM	6129	N	ILE	645	11.400	49.116	-10.895	1.00	0.00	N
ATOM	6130	HN	ILE	645	11.430	49.741	-10.089	1.00	0.00	H
ATOM	6131	CA	ILE	645	11.899	49.558	-12.169	1.00	0.00	C
ATOM	6132	CB	ILE	645	12.478	50.940	-12.115	1.00	0.00	C
ATOM	6133	CG1	ILE	645	11.426	51.956	-11.652	1.00	0.00	C
ATOM	6134	CG2	ILE	645	13.073	51.256	-13.497	1.00	0.00	C
ATOM	6135	CD1	ILE	645	12.018	53.317	-11.289	1.00	0.00	C
ATOM	6136	C	ILE	645	13.022	48.685	-12.590	1.00	0.00	C
ATOM	6137	O	ILE	645	12.994	48.105	-13.675	1.00	0.00	O
ATOM	6138	N	ILE	646	14.014	48.514	-11.702	1.00	0.00	N
ATOM	6139	HN	ILE	646	13.947	48.925	-10.771	1.00	0.00	H

ATOM	6140	CA	ILE	646	15.162	47.753	-12.071	1.00	0.00	C
ATOM	6141	CB	ILE	646	16.156	47.608	-10.957	1.00	0.00	C
ATOM	6142	CG1	ILE	646	16.691	48.986	-10.534	1.00	0.00	C
ATOM	6143	CG2	ILE	646	17.252	46.635	-11.424	1.00	0.00	C
ATOM	6144	CD1	ILE	646	17.404	49.733	-11.660	1.00	0.00	C
ATOM	6145	C	ILE	646	14.681	46.393	-12.406	1.00	0.00	C
ATOM	6146	O	ILE	646	14.992	45.896	-13.478	1.00	0.00	O
ATOM	6147	N	GLY	647	13.821	45.797	-11.564	1.00	0.00	N
ATOM	6148	HN	GLY	647	13.464	46.291	-10.746	1.00	0.00	H
ATOM	6149	CA	GLY	647	13.416	44.450	-11.841	1.00	0.00	C
ATOM	6150	C	GLY	647	12.735	44.369	-13.175	1.00	0.00	C
ATOM	6151	O	GLY	647	13.084	43.554	-14.027	1.00	0.00	O
ATOM	6152	N	VAL	648	11.778	45.270	-13.414	1.00	0.00	N
ATOM	6153	HN	VAL	648	11.609	45.996	-12.718	1.00	0.00	H
ATOM	6154	CA	VAL	648	10.978	45.264	-14.603	1.00	0.00	C
ATOM	6155	CB	VAL	648	9.843	46.256	-14.554	1.00	0.00	C
ATOM	6156	CG1	VAL	648	10.408	47.685	-14.488	1.00	0.00	C
ATOM	6157	CG2	VAL	648	8.925	46.016	-15.763	1.00	0.00	C
ATOM	6158	C	VAL	648	11.837	45.566	-15.793	1.00	0.00	C
ATOM	6159	O	VAL	648	11.360	45.508	-16.923	1.00	0.00	O
ATOM	6160	N	PHE	649	13.025	46.156	-15.581	1.00	0.00	N
ATOM	6161	HN	PHE	649	13.283	46.452	-14.640	1.00	0.00	H
ATOM	6162	CA	PHE	649	13.934	46.372	-16.672	1.00	0.00	C
ATOM	6163	CB	PHE	649	14.682	47.718	-16.598	1.00	0.00	C
ATOM	6164	CG	PHE	649	15.373	47.861	-17.914	1.00	0.00	C
ATOM	6165	CD1	PHE	649	14.665	48.289	-19.014	1.00	0.00	C
ATOM	6166	CD2	PHE	649	16.707	47.550	-18.064	1.00	0.00	C
ATOM	6167	CE1	PHE	649	15.273	48.410	-20.241	1.00	0.00	C
ATOM	6168	CE2	PHE	649	17.322	47.664	-19.288	1.00	0.00	C
ATOM	6169	CZ	PHE	649	16.602	48.093	-20.379	1.00	0.00	C
ATOM	6170	C	PHE	649	14.959	45.288	-16.829	1.00	0.00	C
ATOM	6171	O	PHE	649	15.520	45.107	-17.906	1.00	0.00	O
ATOM	6172	N	THR	650	15.321	44.642	-15.707	1.00	0.00	N
ATOM	6173	HN	THR	650	14.816	44.877	-14.853	1.00	0.00	H
ATOM	6174	CA	THR	650	16.353	43.652	-15.603	1.00	0.00	C
ATOM	6175	CB	THR	650	16.664	43.281	-14.184	1.00	0.00	C
ATOM	6176	OG1	THR	650	17.095	44.420	-13.458	1.00	0.00	O
ATOM	6177	HG1	THR	650	17.292	44.185	-12.559	1.00	0.00	H
ATOM	6178	CG2	THR	650	17.772	42.219	-14.191	1.00	0.00	C
ATOM	6179	C	THR	650	15.919	42.398	-16.277	1.00	0.00	C
ATOM	6180	O	THR	650	16.751	41.642	-16.779	1.00	0.00	O
ATOM	6181	N	ARG	651	14.607	42.096	-16.209	1.00	0.00	N
ATOM	6182	HN	ARG	651	13.962	42.689	-15.687	1.00	0.00	H
ATOM	6183	CA	ARG	651	14.140	40.923	-16.886	1.00	0.00	C
ATOM	6184	CB	ARG	651	14.190	39.681	-15.982	1.00	0.00	C
ATOM	6185	CG	ARG	651	13.285	39.797	-14.756	1.00	0.00	C
ATOM	6186	CD	ARG	651	13.777	40.644	-13.590	1.00	0.00	C
ATOM	6187	NE	ARG	651	12.570	40.796	-12.733	1.00	0.00	N
ATOM	6188	HE	ARG	651	12.053	41.675	-12.725	1.00	0.00	H
ATOM	6189	CZ	ARG	651	12.160	39.750	-11.958	1.00	0.00	C
ATOM	6190	NH1	ARG	651	12.944	38.640	-11.835	1.00	0.00	N
ATOM	6191	1HH1	ARG	651	12.638	37.858	-11.256	1.00	0.00	H
ATOM	6192	2HH1	ARG	651	13.850	38.605	-12.302	1.00	0.00	H
ATOM	6193	NH2	ARG	651	10.946	39.797	-11.333	1.00	0.00	N
ATOM	6194	1HH2	ARG	651	10.640	39.015	-10.754	1.00	0.00	H
ATOM	6195	2HH2	ARG	651	10.360	40.627	-11.425	1.00	0.00	H
ATOM	6196	C	ARG	651	12.709	41.159	-17.286	1.00	0.00	C
ATOM	6197	O	ARG	651	11.863	41.407	-16.429	1.00	0.00	O
ATOM	6198	N	ILE	652	12.391	41.132	-18.602	1.00	0.00	N
ATOM	6199	HN	ILE	652	13.102	40.956	-19.312	1.00	0.00	H
ATOM	6200	CA	ILE	652	11.016	41.360	-18.968	1.00	0.00	C
ATOM	6201	CB	ILE	652	10.485	42.664	-18.437	1.00	0.00	C
ATOM	6202	CG1	ILE	652	8.947	42.698	-18.475	1.00	0.00	C
ATOM	6203	CG2	ILE	652	11.171	43.803	-19.213	1.00	0.00	C
ATOM	6204	CD1	ILE	652	8.344	43.849	-17.677	1.00	0.00	C
ATOM	6205	C	ILE	652	10.888	41.394	-20.471	1.00	0.00	C
ATOM	6206	O	ILE	652	11.868	41.221	-21.193	1.00	0.00	O
ATOM	6207	N	ASP	653	9.649	41.617	-20.978	1.00	0.00	N
ATOM	6208	HN	ASP	653	8.871	41.717	-20.326	1.00	0.00	H
ATOM	6209	CA	ASP	653	9.376	41.720	-22.389	1.00	0.00	C
ATOM	6210	CB	ASP	653	7.882	41.638	-22.748	1.00	0.00	C
ATOM	6211	CG	ASP	653	7.173	42.827	-22.119	1.00	0.00	C
ATOM	6212	OD1	ASP	653	7.676	43.343	-21.085	1.00	0.00	O
ATOM	6213	OD2	ASP	653	6.115	43.235	-22.668	1.00	0.00	O

ATOM	6214	C	ASP	653	9.906	43.016	-22.924	1.00	0.00	C
ATOM	6215	O	ASP	653	9.808	44.063	-22.285	1.00	0.00	O
ATOM	6216	N	ASP	654	10.473	42.971	-24.149	1.00	0.00	N
ATOM	6217	HN	ASP	654	10.469	42.098	-24.676	1.00	0.00	H
ATOM	6218	CA	ASP	654	11.081	44.142	-24.715	1.00	0.00	C
ATOM	6219	CB	ASP	654	11.926	43.865	-25.984	1.00	0.00	C
ATOM	6220	CG	ASP	654	11.089	43.222	-27.079	1.00	0.00	C
ATOM	6221	OD1	ASP	654	10.468	42.162	-26.801	1.00	0.00	O
ATOM	6222	OD2	ASP	654	11.054	43.783	-28.207	1.00	0.00	O
ATOM	6223	C	ASP	654	10.112	45.261	-24.972	1.00	0.00	C
ATOM	6224	O	ASP	654	10.397	46.372	-24.528	1.00	0.00	O
ATOM	6225	N	PRO	655	8.991	45.105	-25.631	1.00	0.00	N
ATOM	6226	CA	PRO	655	8.112	46.215	-25.863	1.00	0.00	C
ATOM	6227	CD	PRO	655	8.360	43.831	-25.932	1.00	0.00	C
ATOM	6228	CB	PRO	655	7.002	45.661	-26.751	1.00	0.00	C
ATOM	6229	CG	PRO	655	6.916	44.185	-26.323	1.00	0.00	C
ATOM	6230	C	PRO	655	7.556	46.664	-24.548	1.00	0.00	C
ATOM	6231	O	PRO	655	7.460	45.852	-23.630	1.00	0.00	O
ATOM	6232	N	GLU	656	7.184	47.952	-24.451	1.00	0.00	N
ATOM	6233	HN	GLU	656	7.358	48.561	-25.250	1.00	0.00	H
ATOM	6234	CA	GLU	656	6.558	48.523	-23.294	1.00	0.00	C
ATOM	6235	CB	GLU	656	5.397	47.658	-22.776	1.00	0.00	C
ATOM	6236	CG	GLU	656	4.259	47.500	-23.786	1.00	0.00	C
ATOM	6237	CD	GLU	656	3.567	48.845	-23.925	1.00	0.00	C
ATOM	6238	OE1	GLU	656	2.954	49.305	-22.925	1.00	0.00	O
ATOM	6239	OE2	GLU	656	3.648	49.435	-25.035	1.00	0.00	O
ATOM	6240	C	GLU	656	7.534	48.675	-22.166	1.00	0.00	C
ATOM	6241	O	GLU	656	7.160	49.138	-21.090	1.00	0.00	O
ATOM	6242	N	THR	657	8.822	48.362	-22.391	1.00	0.00	N
ATOM	6243	HN	THR	657	9.103	47.981	-23.294	1.00	0.00	H
ATOM	6244	CA	THR	657	9.801	48.563	-21.362	1.00	0.00	C
ATOM	6245	CB	THR	657	11.163	48.053	-21.734	1.00	0.00	C
ATOM	6246	OG1	THR	657	11.590	48.653	-22.947	1.00	0.00	O
ATOM	6247	HG1	THR	657	11.621	49.599	-22.861	1.00	0.00	H
ATOM	6248	CG2	THR	657	11.113	46.522	-21.874	1.00	0.00	C
ATOM	6249	C	THR	657	9.887	50.041	-21.176	1.00	0.00	C
ATOM	6250	O	THR	657	10.193	50.534	-20.093	1.00	0.00	O
ATOM	6251	N	LYS	658	9.649	50.776	-22.277	1.00	0.00	N
ATOM	6252	HN	LYS	658	9.458	50.283	-23.149	1.00	0.00	H
ATOM	6253	CA	LYS	658	9.647	52.210	-22.300	1.00	0.00	C
ATOM	6254	CB	LYS	658	9.229	52.736	-23.685	1.00	0.00	C
ATOM	6255	CG	LYS	658	10.255	52.550	-24.802	1.00	0.00	C
ATOM	6256	CD	LYS	658	11.408	53.550	-24.745	1.00	0.00	C
ATOM	6257	CE	LYS	658	10.982	54.938	-25.230	1.00	0.00	C
ATOM	6258	NZ	LYS	658	12.160	55.819	-25.362	1.00	0.00	N
ATOM	6259	HZ1	LYS	658	11.876	56.744	-25.685	1.00	0.00	H
ATOM	6260	HZ2	LYS	658	12.876	55.410	-25.962	1.00	0.00	H
ATOM	6261	HZ3	LYS	658	12.698	55.867	-24.497	1.00	0.00	H
ATOM	6262	C	LYS	658	8.571	52.678	-21.374	1.00	0.00	C
ATOM	6263	O	LYS	658	8.798	53.544	-20.533	1.00	0.00	O
ATOM	6264	N	ARG	659	7.362	52.105	-21.529	1.00	0.00	N
ATOM	6265	HN	ARG	659	7.262	51.379	-22.238	1.00	0.00	H
ATOM	6266	CA	ARG	659	6.205	52.457	-20.753	1.00	0.00	C
ATOM	6267	CB	ARG	659	4.959	51.684	-21.223	1.00	0.00	C
ATOM	6268	CG	ARG	659	3.671	51.978	-20.447	1.00	0.00	C
ATOM	6269	CD	ARG	659	3.016	53.314	-20.801	1.00	0.00	C
ATOM	6270	NE	ARG	659	3.880	54.398	-20.261	1.00	0.00	N
ATOM	6271	HE	ARG	659	4.611	54.808	-20.843	1.00	0.00	H
ATOM	6272	CZ	ARG	659	3.691	54.842	-18.985	1.00	0.00	C
ATOM	6273	NH1	ARG	659	2.716	54.291	-18.204	1.00	0.00	N
ATOM	6274	1HH1	ARG	659	2.575	54.623	-17.250	1.00	0.00	H
ATOM	6275	2HH1	ARG	659	2.125	53.547	-18.575	1.00	0.00	H
ATOM	6276	NH2	ARG	659	4.482	55.837	-18.489	1.00	0.00	N
ATOM	6277	1HH2	ARG	659	4.341	56.169	-17.535	1.00	0.00	H
ATOM	6278	2HH2	ARG	659	5.210	56.249	-19.072	1.00	0.00	H
ATOM	6279	C	ARG	659	6.439	52.071	-19.335	1.00	0.00	C
ATOM	6280	O	ARG	659	6.149	52.834	-18.416	1.00	0.00	O
ATOM	6281	N	GLN	660	6.981	50.859	-19.124	1.00	0.00	N
ATOM	6282	HN	GLN	660	7.238	50.271	-19.917	1.00	0.00	H
ATOM	6283	CA	GLN	660	7.198	50.393	-17.792	1.00	0.00	C
ATOM	6284	CB	GLN	660	7.774	48.969	-17.754	1.00	0.00	C
ATOM	6285	CG	GLN	660	6.805	47.925	-18.311	1.00	0.00	C
ATOM	6286	CD	GLN	660	5.659	47.786	-17.318	1.00	0.00	C
ATOM	6287	OE1	GLN	660	5.805	47.157	-16.271	1.00	0.00	O

ATOM	6288	NE2	GLN	660	4.490	48.396	-17.648	1.00	0.00	N
ATOM	6289	1HE2	GLN	660	4.369	48.918	-18.516	1.00	0.00	H
ATOM	6290	2HE2	GLN	660	3.722	48.303	-16.983	1.00	0.00	H
ATOM	6291	C	GLN	660	8.188	51.309	-17.165	1.00	0.00	C
ATOM	6292	O	GLN	660	8.003	51.756	-16.033	1.00	0.00	O
ATOM	6293	N	ASN	661	9.267	51.627	-17.906	1.00	0.00	N
ATOM	6294	HN	ASN	661	9.377	51.252	-18.848	1.00	0.00	H
ATOM	6295	CA	ASN	661	10.254	52.497	-17.353	1.00	0.00	C
ATOM	6296	CB	ASN	661	11.429	52.774	-18.310	1.00	0.00	C
ATOM	6297	CG	ASN	661	12.362	51.572	-18.301	1.00	0.00	C
ATOM	6298	OD1	ASN	661	12.508	50.899	-17.283	1.00	0.00	O
ATOM	6299	ND2	ASN	661	13.024	51.299	-19.458	1.00	0.00	N
ATOM	6300	1HD2	ASN	661	13.649	50.493	-19.452	1.00	0.00	H
ATOM	6301	2HD2	ASN	661	12.903	51.858	-20.303	1.00	0.00	H
ATOM	6302	C	ASN	661	9.615	53.807	-17.067	1.00	0.00	C
ATOM	6303	O	ASN	661	9.384	54.133	-15.908	1.00	0.00	O
ATOM	6304	N	SER	662	9.154	54.495	-18.130	1.00	0.00	N
ATOM	6305	HN	SER	662	9.159	54.038	-19.042	1.00	0.00	H
ATOM	6306	CA	SER	662	8.656	55.838	-18.044	1.00	0.00	C
ATOM	6307	CB	SER	662	8.010	56.321	-19.354	1.00	0.00	C
ATOM	6308	OG	SER	662	8.981	56.375	-20.389	1.00	0.00	O
ATOM	6309	HG	SER	662	8.582	56.673	-21.198	1.00	0.00	H
ATOM	6310	C	SER	662	7.616	55.891	-16.978	1.00	0.00	C
ATOM	6311	O	SER	662	7.541	56.860	-16.227	1.00	0.00	O
ATOM	6312	N	ASN	663	6.802	54.831	-16.863	1.00	0.00	N
ATOM	6313	HN	ASN	663	6.899	54.037	-17.496	1.00	0.00	H
ATOM	6314	CA	ASN	663	5.798	54.824	-15.846	1.00	0.00	C
ATOM	6315	CB	ASN	663	4.917	53.569	-15.941	1.00	0.00	C
ATOM	6316	CG	ASN	663	3.914	53.602	-14.805	1.00	0.00	C
ATOM	6317	OD1	ASN	663	4.267	53.381	-13.649	1.00	0.00	O
ATOM	6318	ND2	ASN	663	2.627	53.890	-15.134	1.00	0.00	N
ATOM	6319	1HD2	ASN	663	2.334	54.073	-16.094	1.00	0.00	H
ATOM	6320	2HD2	ASN	663	1.952	53.912	-14.370	1.00	0.00	H
ATOM	6321	C	ASN	663	6.429	54.841	-14.486	1.00	0.00	C
ATOM	6322	O	ASN	663	6.262	55.789	-13.722	1.00	0.00	O
ATOM	6323	N	LEU	664	7.263	53.832	-14.184	1.00	0.00	N
ATOM	6324	HN	LEU	664	7.507	53.149	-14.901	1.00	0.00	H
ATOM	6325	CA	LEU	664	7.815	53.702	-12.865	1.00	0.00	C
ATOM	6326	CB	LEU	664	8.740	52.482	-12.748	1.00	0.00	C
ATOM	6327	CG	LEU	664	8.003	51.144	-12.938	1.00	0.00	C
ATOM	6328	CD1	LEU	664	8.969	49.957	-12.814	1.00	0.00	C
ATOM	6329	CD2	LEU	664	6.800	51.028	-11.986	1.00	0.00	C
ATOM	6330	C	LEU	664	8.616	54.927	-12.584	1.00	0.00	C
ATOM	6331	O	LEU	664	8.652	55.413	-11.455	1.00	0.00	O
ATOM	6332	N	PHE	665	9.287	55.454	-13.619	1.00	0.00	N
ATOM	6333	HN	PHE	665	9.229	55.001	-14.531	1.00	0.00	H
ATOM	6334	CA	PHE	665	10.081	56.634	-13.478	1.00	0.00	C
ATOM	6335	CB	PHE	665	10.685	56.968	-14.858	1.00	0.00	C
ATOM	6336	CG	PHE	665	10.562	58.397	-15.249	1.00	0.00	C
ATOM	6337	CD1	PHE	665	11.491	59.339	-14.883	1.00	0.00	C
ATOM	6338	CD2	PHE	665	9.491	58.779	-16.024	1.00	0.00	C
ATOM	6339	CE1	PHE	665	11.341	60.645	-15.285	1.00	0.00	C
ATOM	6340	CE2	PHE	665	9.335	60.079	-16.429	1.00	0.00	C
ATOM	6341	CZ	PHE	665	10.264	61.016	-16.056	1.00	0.00	C
ATOM	6342	C	PHE	665	9.231	57.740	-12.927	1.00	0.00	C
ATOM	6343	O	PHE	665	9.466	58.202	-11.812	1.00	0.00	O
ATOM	6344	N	SER	666	8.150	58.119	-13.627	1.00	0.00	N
ATOM	6345	HN	SER	666	7.912	57.639	-14.495	1.00	0.00	H
ATOM	6346	CA	SER	666	7.328	59.199	-13.156	1.00	0.00	C
ATOM	6347	CB	SER	666	6.100	59.462	-14.044	1.00	0.00	C
ATOM	6348	OG	SER	666	6.500	59.891	-15.333	1.00	0.00	O
ATOM	6349	HG	SER	666	5.742	60.053	-15.881	1.00	0.00	H
ATOM	6350	C	SER	666	6.778	58.819	-11.823	1.00	0.00	C
ATOM	6351	O	SER	666	6.694	59.648	-10.920	1.00	0.00	O
ATOM	6352	N	LEU	667	6.428	57.531	-11.655	1.00	0.00	N
ATOM	6353	HN	LEU	667	6.605	56.857	-12.400	1.00	0.00	H
ATOM	6354	CA	LEU	667	5.809	57.099	-10.438	1.00	0.00	C
ATOM	6355	CB	LEU	667	5.621	55.579	-10.322	1.00	0.00	C
ATOM	6356	CG	LEU	667	4.628	54.973	-11.312	1.00	0.00	C
ATOM	6357	CD1	LEU	667	4.296	53.530	-10.914	1.00	0.00	C
ATOM	6358	CD2	LEU	667	3.382	55.851	-11.460	1.00	0.00	C
ATOM	6359	C	LEU	667	6.726	57.420	-9.321	1.00	0.00	C
ATOM	6360	O	LEU	667	6.305	57.921	-8.281	1.00	0.00	O
ATOM	6361	N	LEU	668	8.021	57.150	-9.519	1.00	0.00	N

ATOM	6362	HN	LEU	668	8.348	56.796	-10.418	1.00	0.00	H
ATOM	6363	CA	LEU	668	8.933	57.367	-8.448	1.00	0.00	C
ATOM	6364	CB	LEU	668	10.360	56.949	-8.835	1.00	0.00	C
ATOM	6365	CG	LEU	668	11.306	56.730	-7.641	1.00	0.00	C
ATOM	6366	CD1	LEU	668	12.715	56.350	-8.120	1.00	0.00	C
ATOM	6367	CD2	LEU	668	11.285	57.904	-6.656	1.00	0.00	C
ATOM	6368	C	LEU	668	8.895	58.838	-8.133	1.00	0.00	C
ATOM	6369	O	LEU	668	8.862	59.228	-6.966	1.00	0.00	O
ATOM	6370	N	PHE	669	8.892	59.698	-9.174	1.00	0.00	N
ATOM	6371	HN	PHE	669	8.906	59.335	-10.127	1.00	0.00	H
ATOM	6372	CA	PHE	669	8.869	61.119	-8.955	1.00	0.00	C
ATOM	6373	CB	PHE	669	9.018	61.916	-10.263	1.00	0.00	C
ATOM	6374	CG	PHE	669	8.519	63.299	-10.010	1.00	0.00	C
ATOM	6375	CD1	PHE	669	9.277	64.224	-9.334	1.00	0.00	C
ATOM	6376	CD2	PHE	669	7.259	63.659	-10.432	1.00	0.00	C
ATOM	6377	CE1	PHE	669	8.792	65.491	-9.105	1.00	0.00	C
ATOM	6378	CE2	PHE	669	6.769	64.923	-10.207	1.00	0.00	C
ATOM	6379	CZ	PHE	669	7.538	65.845	-9.542	1.00	0.00	C
ATOM	6380	C	PHE	669	7.611	61.590	-8.305	1.00	0.00	C
ATOM	6381	O	PHE	669	7.627	62.057	-7.169	1.00	0.00	O
ATOM	6382	N	LEU	670	6.464	61.378	-8.966	1.00	0.00	N
ATOM	6383	HN	LEU	670	6.470	60.804	-9.809	1.00	0.00	H
ATOM	6384	CA	LEU	670	5.231	61.943	-8.510	1.00	0.00	C
ATOM	6385	CB	LEU	670	4.061	61.587	-9.458	1.00	0.00	C
ATOM	6386	CG	LEU	670	3.951	60.102	-9.887	1.00	0.00	C
ATOM	6387	CD1	LEU	670	3.347	59.198	-8.798	1.00	0.00	C
ATOM	6388	CD2	LEU	670	3.220	59.977	-11.233	1.00	0.00	C
ATOM	6389	C	LEU	670	4.969	61.444	-7.136	1.00	0.00	C
ATOM	6390	O	LEU	670	4.586	62.212	-6.254	1.00	0.00	O
ATOM	6391	N	ALA	671	5.196	60.143	-6.904	1.00	0.00	N
ATOM	6392	HN	ALA	671	5.573	59.527	-7.624	1.00	0.00	H
ATOM	6393	CA	ALA	671	4.882	59.666	-5.598	1.00	0.00	C
ATOM	6394	CB	ALA	671	5.036	58.139	-5.483	1.00	0.00	C
ATOM	6395	C	ALA	671	5.783	60.286	-4.577	1.00	0.00	C
ATOM	6396	O	ALA	671	5.336	61.064	-3.739	1.00	0.00	O
ATOM	6397	N	LEU	672	7.104	60.060	-4.684	1.00	0.00	N
ATOM	6398	HN	LEU	672	7.486	59.571	-5.493	1.00	0.00	H
ATOM	6399	CA	LEU	672	7.961	60.522	-3.634	1.00	0.00	C
ATOM	6400	CB	LEU	672	9.418	60.037	-3.832	1.00	0.00	C
ATOM	6401	CG	LEU	672	10.442	60.354	-2.713	1.00	0.00	C
ATOM	6402	CD1	LEU	672	11.780	59.660	-3.015	1.00	0.00	C
ATOM	6403	CD2	LEU	672	10.655	61.860	-2.483	1.00	0.00	C
ATOM	6404	C	LEU	672	7.937	62.009	-3.578	1.00	0.00	C
ATOM	6405	O	LEU	672	7.515	62.567	-2.568	1.00	0.00	O
ATOM	6406	N	GLY	673	8.267	62.683	-4.700	1.00	0.00	N
ATOM	6407	HN	GLY	673	8.372	62.181	-5.582	1.00	0.00	H
ATOM	6408	CA	GLY	673	8.470	64.099	-4.657	1.00	0.00	C
ATOM	6409	C	GLY	673	7.250	64.784	-4.141	1.00	0.00	C
ATOM	6410	O	GLY	673	7.331	65.576	-3.205	1.00	0.00	O
ATOM	6411	N	ILE	674	6.079	64.484	-4.715	1.00	0.00	N
ATOM	6412	HN	ILE	674	6.018	63.756	-5.426	1.00	0.00	H
ATOM	6413	CA	ILE	674	4.916	65.208	-4.308	1.00	0.00	C
ATOM	6414	CB	ILE	674	3.799	64.978	-5.271	1.00	0.00	C
ATOM	6415	CG1	ILE	674	4.267	65.486	-6.646	1.00	0.00	C
ATOM	6416	CG2	ILE	674	2.529	65.666	-4.739	1.00	0.00	C
ATOM	6417	CD1	ILE	674	3.471	64.949	-7.825	1.00	0.00	C
ATOM	6418	C	ILE	674	4.478	64.856	-2.922	1.00	0.00	C
ATOM	6419	O	ILE	674	4.483	65.725	-2.052	1.00	0.00	O
ATOM	6420	N	ILE	675	4.244	63.554	-2.644	1.00	0.00	N
ATOM	6421	HN	ILE	675	4.511	62.846	-3.328	1.00	0.00	H
ATOM	6422	CA	ILE	675	3.628	63.138	-1.409	1.00	0.00	C
ATOM	6423	CB	ILE	675	3.580	61.643	-1.251	1.00	0.00	C
ATOM	6424	CG1	ILE	675	2.683	61.015	-2.331	1.00	0.00	C
ATOM	6425	CG2	ILE	675	3.143	61.326	0.190	1.00	0.00	C
ATOM	6426	CD1	ILE	675	2.781	59.492	-2.404	1.00	0.00	C
ATOM	6427	C	ILE	675	4.431	63.664	-0.269	1.00	0.00	C
ATOM	6428	O	ILE	675	3.874	64.191	0.692	1.00	0.00	O
ATOM	6429	N	SER	676	5.764	63.550	-0.357	1.00	0.00	N
ATOM	6430	HN	SER	676	6.183	63.151	-1.197	1.00	0.00	H
ATOM	6431	CA	SER	676	6.605	63.983	0.718	1.00	0.00	C
ATOM	6432	CB	SER	676	8.064	63.550	0.531	1.00	0.00	C
ATOM	6433	OG	SER	676	8.790	63.795	1.723	1.00	0.00	O
ATOM	6434	HG	SER	676	9.694	63.527	1.607	1.00	0.00	H
ATOM	6435	C	SER	676	6.569	65.469	0.864	1.00	0.00	C

ATOM	6436	O	SER	676	6.379	65.957	1.976	1.00	0.00	O
ATOM	6437	N	PHE	677	6.679	66.216	-0.260	1.00	0.00	N
ATOM	6438	HN	PHE	677	6.745	65.740	-1.160	1.00	0.00	H
ATOM	6439	CA	PHE	677	6.706	67.654	-0.235	1.00	0.00	C
ATOM	6440	CB	PHE	677	6.639	68.252	-1.653	1.00	0.00	C
ATOM	6441	CG	PHE	677	6.381	69.714	-1.547	1.00	0.00	C
ATOM	6442	CD1	PHE	677	7.403	70.593	-1.278	1.00	0.00	C
ATOM	6443	CD2	PHE	677	5.104	70.204	-1.705	1.00	0.00	C
ATOM	6444	CE1	PHE	677	7.152	71.942	-1.180	1.00	0.00	C
ATOM	6445	CE2	PHE	677	4.848	71.551	-1.608	1.00	0.00	C
ATOM	6446	CZ	PHE	677	5.875	72.424	-1.346	1.00	0.00	C
ATOM	6447	C	PHE	677	5.488	68.047	0.511	1.00	0.00	C
ATOM	6448	O	PHE	677	5.520	68.938	1.360	1.00	0.00	O
ATOM	6449	N	ILE	678	4.386	67.338	0.221	1.00	0.00	N
ATOM	6450	HN	ILE	678	4.414	66.629	-0.512	1.00	0.00	H
ATOM	6451	CA	ILE	678	3.178	67.575	0.936	1.00	0.00	C
ATOM	6452	CB	ILE	678	2.030	66.750	0.436	1.00	0.00	C
ATOM	6453	CG1	ILE	678	1.650	67.144	-1.001	1.00	0.00	C
ATOM	6454	CG2	ILE	678	0.883	66.892	1.449	1.00	0.00	C
ATOM	6455	CD1	ILE	678	1.174	68.590	-1.132	1.00	0.00	C
ATOM	6456	C	ILE	678	3.374	67.189	2.368	1.00	0.00	C
ATOM	6457	O	ILE	678	3.233	68.046	3.237	1.00	0.00	O
ATOM	6458	N	THR	679	3.843	65.944	2.637	1.00	0.00	N
ATOM	6459	HN	THR	679	4.196	65.368	1.873	1.00	0.00	H
ATOM	6460	CA	THR	679	3.854	65.418	3.978	1.00	0.00	C
ATOM	6461	CB	THR	679	4.461	64.043	4.116	1.00	0.00	C
ATOM	6462	OG1	THR	679	4.152	63.514	5.397	1.00	0.00	O
ATOM	6463	HG1	THR	679	4.534	62.649	5.484	1.00	0.00	H
ATOM	6464	CG2	THR	679	5.987	64.108	3.951	1.00	0.00	C
ATOM	6465	C	THR	679	4.586	66.353	4.888	1.00	0.00	C
ATOM	6466	O	THR	679	4.102	66.635	5.984	1.00	0.00	O
ATOM	6467	N	PHE	680	5.755	66.871	4.460	1.00	0.00	N
ATOM	6468	HN	PHE	680	6.112	66.629	3.536	1.00	0.00	H
ATOM	6469	CA	PHE	680	6.497	67.764	5.305	1.00	0.00	C
ATOM	6470	CB	PHE	680	7.875	68.145	4.751	1.00	0.00	C
ATOM	6471	CG	PHE	680	8.703	66.914	4.808	1.00	0.00	C
ATOM	6472	CD1	PHE	680	8.954	66.303	6.013	1.00	0.00	C
ATOM	6473	CD2	PHE	680	9.256	66.392	3.668	1.00	0.00	C
ATOM	6474	CE1	PHE	680	9.723	65.168	6.080	1.00	0.00	C
ATOM	6475	CE2	PHE	680	10.029	65.258	3.733	1.00	0.00	C
ATOM	6476	CZ	PHE	680	10.263	64.638	4.936	1.00	0.00	C
ATOM	6477	C	PHE	680	5.739	69.021	5.510	1.00	0.00	C
ATOM	6478	O	PHE	680	5.437	69.350	6.653	1.00	0.00	O
ATOM	6479	N	PHE	681	5.310	69.679	4.410	1.00	0.00	N
ATOM	6480	HN	PHE	681	5.414	69.237	3.496	1.00	0.00	H
ATOM	6481	CA	PHE	681	4.713	70.980	4.491	1.00	0.00	C
ATOM	6482	CB	PHE	681	4.157	71.487	3.152	1.00	0.00	C
ATOM	6483	CG	PHE	681	3.662	72.866	3.420	1.00	0.00	C
ATOM	6484	CD1	PHE	681	4.554	73.909	3.481	1.00	0.00	C
ATOM	6485	CD2	PHE	681	2.324	73.123	3.610	1.00	0.00	C
ATOM	6486	CE1	PHE	681	4.125	75.191	3.729	1.00	0.00	C
ATOM	6487	CE2	PHE	681	1.886	74.403	3.859	1.00	0.00	C
ATOM	6488	CZ	PHE	681	2.788	75.439	3.920	1.00	0.00	C
ATOM	6489	C	PHE	681	3.574	70.913	5.449	1.00	0.00	C
ATOM	6490	O	PHE	681	3.454	71.768	6.322	1.00	0.00	O
ATOM	6491	N	LEU	682	2.729	69.877	5.320	1.00	0.00	N
ATOM	6492	HN	LEU	682	2.897	69.196	4.580	1.00	0.00	H
ATOM	6493	CA	LEU	682	1.598	69.692	6.184	1.00	0.00	C
ATOM	6494	CB	LEU	682	0.785	68.458	5.737	1.00	0.00	C
ATOM	6495	CG	LEU	682	-0.404	68.048	6.629	1.00	0.00	C
ATOM	6496	CD1	LEU	682	0.025	67.344	7.927	1.00	0.00	C
ATOM	6497	CD2	LEU	682	-1.325	69.246	6.887	1.00	0.00	C
ATOM	6498	C	LEU	682	2.028	69.467	7.605	1.00	0.00	C
ATOM	6499	O	LEU	682	1.664	70.238	8.489	1.00	0.00	O
ATOM	6500	N	GLN	683	2.867	68.439	7.855	1.00	0.00	N
ATOM	6501	HN	GLN	683	3.263	67.918	7.073	1.00	0.00	H
ATOM	6502	CA	GLN	683	3.216	68.061	9.201	1.00	0.00	C
ATOM	6503	CB	GLN	683	4.099	66.802	9.239	1.00	0.00	C
ATOM	6504	CG	GLN	683	5.461	66.979	8.569	1.00	0.00	C
ATOM	6505	CD	GLN	683	6.055	65.591	8.395	1.00	0.00	C
ATOM	6506	OE1	GLN	683	6.948	65.181	9.133	1.00	0.00	O
ATOM	6507	NE2	GLN	683	5.530	64.842	7.388	1.00	0.00	N
ATOM	6508	1HE2	GLN	683	4.789	65.182	6.775	1.00	0.00	H
ATOM	6509	2HE2	GLN	683	5.929	63.910	7.271	1.00	0.00	H

ATOM	6510	C	GLN	683	3.945	69.174	9.872	1.00	0.00	C
ATOM	6511	O	GLN	683	3.665	69.507	11.021	1.00	0.00	O
ATOM	6512	N	GLY	684	4.885	69.802	9.152	1.00	0.00	N
ATOM	6513	HN	GLY	684	5.047	69.510	8.188	1.00	0.00	H
ATOM	6514	CA	GLY	684	5.667	70.869	9.694	1.00	0.00	C
ATOM	6515	C	GLY	684	4.721	71.967	10.043	1.00	0.00	C
ATOM	6516	O	GLY	684	4.941	72.708	10.998	1.00	0.00	O
ATOM	6517	N	PHE	685	3.664	72.135	9.229	1.00	0.00	N
ATOM	6518	HN	PHE	685	3.542	71.513	8.430	1.00	0.00	H
ATOM	6519	CA	PHE	685	2.707	73.172	9.465	1.00	0.00	C
ATOM	6520	CB	PHE	685	1.632	73.205	8.365	1.00	0.00	C
ATOM	6521	CG	PHE	685	0.728	74.360	8.616	1.00	0.00	C
ATOM	6522	CD1	PHE	685	1.061	75.614	8.159	1.00	0.00	C
ATOM	6523	CD2	PHE	685	-0.454	74.192	9.300	1.00	0.00	C
ATOM	6524	CE1	PHE	685	0.231	76.686	8.384	1.00	0.00	C
ATOM	6525	CE2	PHE	685	-1.289	75.261	9.529	1.00	0.00	C
ATOM	6526	CZ	PHE	685	-0.946	76.510	9.069	1.00	0.00	C
ATOM	6527	C	PHE	685	2.012	72.940	10.776	1.00	0.00	C
ATOM	6528	O	PHE	685	2.019	73.815	11.639	1.00	0.00	O
ATOM	6529	N	THR	686	1.401	71.749	10.960	1.00	0.00	N
ATOM	6530	HN	THR	686	1.485	71.034	10.237	1.00	0.00	H
ATOM	6531	CA	THR	686	0.634	71.456	12.144	1.00	0.00	C
ATOM	6532	CB	THR	686	-0.140	70.173	12.029	1.00	0.00	C
ATOM	6533	OG1	THR	686	0.751	69.075	11.909	1.00	0.00	O
ATOM	6534	HG1	THR	686	1.314	69.028	12.672	1.00	0.00	H
ATOM	6535	CG2	THR	686	-1.053	70.249	10.792	1.00	0.00	C
ATOM	6536	C	THR	686	1.485	71.340	13.382	1.00	0.00	C
ATOM	6537	O	THR	686	1.266	72.073	14.344	1.00	0.00	O
ATOM	6538	N	PHE	687	2.505	70.448	13.386	1.00	0.00	N
ATOM	6539	HN	PHE	687	2.735	69.936	12.534	1.00	0.00	H
ATOM	6540	CA	PHE	687	3.266	70.220	14.589	1.00	0.00	C
ATOM	6541	CB	PHE	687	4.197	68.978	14.601	1.00	0.00	C
ATOM	6542	CG	PHE	687	5.410	69.091	13.731	1.00	0.00	C
ATOM	6543	CD1	PHE	687	6.448	69.931	14.068	1.00	0.00	C
ATOM	6544	CD2	PHE	687	5.544	68.305	12.608	1.00	0.00	C
ATOM	6545	CE1	PHE	687	7.572	70.018	13.280	1.00	0.00	C
ATOM	6546	CE2	PHE	687	6.665	68.387	11.815	1.00	0.00	C
ATOM	6547	CZ	PHE	687	7.683	69.248	12.147	1.00	0.00	C
ATOM	6548	C	PHE	687	4.063	71.435	14.926	1.00	0.00	C
ATOM	6549	O	PHE	687	4.242	71.759	16.098	1.00	0.00	O
ATOM	6550	N	GLY	688	4.591	72.130	13.906	1.00	0.00	N
ATOM	6551	HN	GLY	688	4.438	71.824	12.945	1.00	0.00	H
ATOM	6552	CA	GLY	688	5.369	73.302	14.172	1.00	0.00	C
ATOM	6553	C	GLY	688	4.472	74.283	14.856	1.00	0.00	C
ATOM	6554	O	GLY	688	4.868	74.916	15.833	1.00	0.00	O
ATOM	6555	N	LYS	689	3.218	74.398	14.375	1.00	0.00	N
ATOM	6556	HN	LYS	689	2.933	73.802	13.598	1.00	0.00	H
ATOM	6557	CA	LYS	689	2.269	75.328	14.916	1.00	0.00	C
ATOM	6558	CB	LYS	689	0.887	75.270	14.246	1.00	0.00	C
ATOM	6559	CG	LYS	689	-0.074	76.344	14.768	1.00	0.00	C
ATOM	6560	CD	LYS	689	-1.361	76.494	13.952	1.00	0.00	C
ATOM	6561	CE	LYS	689	-2.492	75.582	14.434	1.00	0.00	C
ATOM	6562	NZ	LYS	689	-2.152	74.166	14.166	1.00	0.00	N
ATOM	6563	HZ1	LYS	689	-2.906	73.558	14.487	1.00	0.00	H
ATOM	6564	HZ2	LYS	689	-1.253	73.906	14.571	1.00	0.00	H
ATOM	6565	HZ3	LYS	689	-1.925	74.007	13.184	1.00	0.00	H
ATOM	6566	C	LYS	689	2.067	74.976	16.349	1.00	0.00	C
ATOM	6567	O	LYS	689	1.785	75.848	17.166	1.00	0.00	O
ATOM	6568	N	ALA	690	2.164	73.673	16.673	1.00	0.00	N
ATOM	6569	HN	ALA	690	2.343	72.993	15.934	1.00	0.00	H
ATOM	6570	CA	ALA	690	2.024	73.211	18.022	1.00	0.00	C
ATOM	6571	CB	ALA	690	2.133	71.682	18.147	1.00	0.00	C
ATOM	6572	C	ALA	690	3.138	73.811	18.819	1.00	0.00	C
ATOM	6573	O	ALA	690	2.954	74.180	19.977	1.00	0.00	O
ATOM	6574	N	GLY	691	4.344	73.884	18.222	1.00	0.00	N
ATOM	6575	HN	GLY	691	4.461	73.522	17.276	1.00	0.00	H
ATOM	6576	CA	GLY	691	5.465	74.466	18.903	1.00	0.00	C
ATOM	6577	C	GLY	691	5.206	75.923	19.100	1.00	0.00	C
ATOM	6578	O	GLY	691	5.492	76.479	20.159	1.00	0.00	O
ATOM	6579	N	GLU	692	4.668	76.592	18.065	1.00	0.00	N
ATOM	6580	HN	GLU	692	4.417	76.105	17.205	1.00	0.00	H
ATOM	6581	CA	GLU	692	4.455	77.999	18.194	1.00	0.00	C
ATOM	6582	CB	GLU	692	3.735	78.562	16.962	1.00	0.00	C
ATOM	6583	CG	GLU	692	4.491	78.357	15.650	1.00	0.00	C

ATOM	6584	CD	GLU	692	3.554	78.775	14.526	1.00	0.00	C
ATOM	6585	OE1	GLU	692	2.758	79.724	14.755	1.00	0.00	O
ATOM	6586	OE2	GLU	692	3.610	78.150	13.434	1.00	0.00	O
ATOM	6587	C	GLU	692	3.529	78.214	19.346	1.00	0.00	C
ATOM	6588	O	GLU	692	3.943	78.703	20.393	1.00	0.00	O
ATOM	6589	N	ILE	693	2.294	77.690	19.236	1.00	0.00	N
ATOM	6590	HN	ILE	693	2.075	77.087	18.443	1.00	0.00	H
ATOM	6591	CA	ILE	693	1.281	77.963	20.211	1.00	0.00	C
ATOM	6592	CB	ILE	693	-0.024	77.275	19.919	1.00	0.00	C
ATOM	6593	CG1	ILE	693	0.132	75.747	19.950	1.00	0.00	C
ATOM	6594	CG2	ILE	693	-0.546	77.807	18.576	1.00	0.00	C
ATOM	6595	CD1	ILE	693	-1.199	75.002	20.010	1.00	0.00	C
ATOM	6596	C	ILE	693	1.738	77.508	21.552	1.00	0.00	C
ATOM	6597	O	ILE	693	1.642	78.274	22.506	1.00	0.00	O
ATOM	6598	N	LEU	694	2.314	76.294	21.648	1.00	0.00	N
ATOM	6599	HN	LEU	694	2.495	75.761	20.797	1.00	0.00	H
ATOM	6600	CA	LEU	694	2.679	75.733	22.913	1.00	0.00	C
ATOM	6601	CB	LEU	694	3.402	74.381	22.761	1.00	0.00	C
ATOM	6602	CG	LEU	694	3.543	73.546	24.053	1.00	0.00	C
ATOM	6603	CD1	LEU	694	4.281	72.229	23.760	1.00	0.00	C
ATOM	6604	CD2	LEU	694	4.153	74.332	25.225	1.00	0.00	C
ATOM	6605	C	LEU	694	3.599	76.707	23.577	1.00	0.00	C
ATOM	6606	O	LEU	694	3.400	77.007	24.746	1.00	0.00	O
ATOM	6607	N	THR	695	4.593	77.260	22.853	1.00	0.00	N
ATOM	6608	HN	THR	695	4.696	76.994	21.874	1.00	0.00	H
ATOM	6609	CA	THR	695	5.514	78.213	23.415	1.00	0.00	C
ATOM	6610	CB	THR	695	6.612	78.587	22.462	1.00	0.00	C
ATOM	6611	OG1	THR	695	7.386	77.444	22.127	1.00	0.00	O
ATOM	6612	HG1	THR	695	6.843	76.775	21.727	1.00	0.00	H
ATOM	6613	CG2	THR	695	7.491	79.671	23.109	1.00	0.00	C
ATOM	6614	C	THR	695	4.830	79.498	23.798	1.00	0.00	C
ATOM	6615	O	THR	695	5.109	80.047	24.861	1.00	0.00	O
ATOM	6616	N	LYS	696	3.962	80.043	22.921	1.00	0.00	N
ATOM	6617	HN	LYS	696	3.756	79.543	22.056	1.00	0.00	H
ATOM	6618	CA	LYS	696	3.317	81.306	23.165	1.00	0.00	C
ATOM	6619	CB	LYS	696	2.559	81.828	21.940	1.00	0.00	C
ATOM	6620	CG	LYS	696	3.475	82.128	20.756	1.00	0.00	C
ATOM	6621	CD	LYS	696	2.713	82.395	19.459	1.00	0.00	C
ATOM	6622	CE	LYS	696	1.884	81.206	18.970	1.00	0.00	C
ATOM	6623	NZ	LYS	696	1.069	81.607	17.800	1.00	0.00	N
ATOM	6624	HZ1	LYS	696	0.516	80.814	17.474	1.00	0.00	H
ATOM	6625	HZ2	LYS	696	1.639	82.008	17.056	1.00	0.00	H
ATOM	6626	HZ3	LYS	696	0.489	82.422	17.999	1.00	0.00	H
ATOM	6627	C	LYS	696	2.336	81.223	24.278	1.00	0.00	C
ATOM	6628	O	LYS	696	2.428	81.961	25.253	1.00	0.00	O
ATOM	6629	N	ARG	697	1.406	80.262	24.186	1.00	0.00	N
ATOM	6630	HN	ARG	697	1.424	79.627	23.388	1.00	0.00	H
ATOM	6631	CA	ARG	697	0.392	80.105	25.176	1.00	0.00	C
ATOM	6632	CB	ARG	697	-0.533	78.895	24.941	1.00	0.00	C
ATOM	6633	CG	ARG	697	0.184	77.543	24.928	1.00	0.00	C
ATOM	6634	CD	ARG	697	-0.769	76.345	24.986	1.00	0.00	C
ATOM	6635	NE	ARG	697	-1.727	76.472	23.853	1.00	0.00	N
ATOM	6636	HE	ARG	697	-1.817	77.357	23.355	1.00	0.00	H
ATOM	6637	CZ	ARG	697	-2.484	75.398	23.485	1.00	0.00	C
ATOM	6638	NH1	ARG	697	-2.335	74.207	24.135	1.00	0.00	N
ATOM	6639	1HH1	ARG	697	-2.901	73.404	23.860	1.00	0.00	H
ATOM	6640	2HH1	ARG	697	-1.664	74.121	24.898	1.00	0.00	H
ATOM	6641	NH2	ARG	697	-3.382	75.513	22.464	1.00	0.00	N
ATOM	6642	1HH2	ARG	697	-3.948	74.710	22.189	1.00	0.00	H
ATOM	6643	2HH2	ARG	697	-3.493	76.403	21.978	1.00	0.00	H
ATOM	6644	C	ARG	697	1.147	79.847	26.435	1.00	0.00	C
ATOM	6645	O	ARG	697	0.644	80.118	27.519	1.00	0.00	O
ATOM	6646	N	LEU	698	2.346	79.238	26.311	1.00	0.00	N
ATOM	6647	HN	LEU	698	2.680	79.004	25.376	1.00	0.00	H
ATOM	6648	CA	LEU	698	3.172	78.906	27.439	1.00	0.00	C
ATOM	6649	CB	LEU	698	4.379	78.025	27.063	1.00	0.00	C
ATOM	6650	CG	LEU	698	5.060	77.274	28.223	1.00	0.00	C
ATOM	6651	CD1	LEU	698	5.634	78.220	29.286	1.00	0.00	C
ATOM	6652	CD2	LEU	698	4.130	76.188	28.789	1.00	0.00	C
ATOM	6653	C	LEU	698	3.745	80.133	28.092	1.00	0.00	C
ATOM	6654	O	LEU	698	3.537	80.339	29.283	1.00	0.00	O
ATOM	6655	N	ARG	699	4.436	81.013	27.331	1.00	0.00	N
ATOM	6656	HN	ARG	699	4.508	80.864	26.324	1.00	0.00	H
ATOM	6657	CA	ARG	699	5.069	82.156	27.931	1.00	0.00	C

ATOM	6658	CB	ARG	699	5.807	83.056	26.926	1.00	0.00	C
ATOM	6659	CG	ARG	699	7.107	82.424	26.423	1.00	0.00	C
ATOM	6660	CD	ARG	699	7.762	83.183	25.270	1.00	0.00	C
ATOM	6661	NE	ARG	699	8.484	84.361	25.821	1.00	0.00	N
ATOM	6662	HE	ARG	699	8.191	84.779	26.704	1.00	0.00	H
ATOM	6663	CZ	ARG	699	9.544	84.877	25.130	1.00	0.00	C
ATOM	6664	NH1	ARG	699	9.960	84.296	23.968	1.00	0.00	N
ATOM	6665	1HH1	ARG	699	9.471	83.472	23.618	1.00	0.00	H
ATOM	6666	2HH1	ARG	699	10.751	84.681	23.452	1.00	0.00	H
ATOM	6667	NH2	ARG	699	10.197	85.978	25.598	1.00	0.00	N
ATOM	6668	1HH2	ARG	699	9.886	86.412	26.467	1.00	0.00	H
ATOM	6669	2HH2	ARG	699	10.988	86.363	25.082	1.00	0.00	H
ATOM	6670	C	ARG	699	3.987	82.945	28.576	1.00	0.00	C
ATOM	6671	O	ARG	699	4.170	83.505	29.654	1.00	0.00	O
ATOM	6672	N	TYR	700	2.824	82.992	27.911	1.00	0.00	N
ATOM	6673	HN	TYR	700	2.764	82.516	27.011	1.00	0.00	H
ATOM	6674	CA	TYR	700	1.664	83.672	28.394	1.00	0.00	C
ATOM	6675	CB	TYR	700	0.531	83.561	27.360	1.00	0.00	C
ATOM	6676	CG	TYR	700	-0.674	84.321	27.786	1.00	0.00	C
ATOM	6677	CD1	TYR	700	-0.727	85.687	27.627	1.00	0.00	C
ATOM	6678	CD2	TYR	700	-1.757	83.667	28.322	1.00	0.00	C
ATOM	6679	CE1	TYR	700	-1.843	86.393	28.004	1.00	0.00	C
ATOM	6680	CE2	TYR	700	-2.876	84.366	28.700	1.00	0.00	C
ATOM	6681	CZ	TYR	700	-2.919	85.728	28.538	1.00	0.00	C
ATOM	6682	OH	TYR	700	-4.072	86.440	28.925	1.00	0.00	O
ATOM	6683	HH	TYR	700	-4.102	87.383	28.813	1.00	0.00	H
ATOM	6684	C	TYR	700	1.225	83.006	29.659	1.00	0.00	C
ATOM	6685	O	TYR	700	1.133	83.651	30.699	1.00	0.00	O
ATOM	6686	N	MET	701	1.051	81.672	29.633	1.00	0.00	N
ATOM	6687	HN	MET	701	1.290	81.147	28.792	1.00	0.00	H
ATOM	6688	CA	MET	701	0.533	80.983	30.776	1.00	0.00	C
ATOM	6689	CB	MET	701	0.478	79.455	30.592	1.00	0.00	C
ATOM	6690	CG	MET	701	-0.628	78.966	29.657	1.00	0.00	C
ATOM	6691	SD	MET	701	-2.300	79.169	30.332	1.00	0.00	S
ATOM	6692	CE	MET	701	-2.089	77.910	31.624	1.00	0.00	C
ATOM	6693	C	MET	701	1.442	81.230	31.935	1.00	0.00	C
ATOM	6694	O	MET	701	0.978	81.590	33.013	1.00	0.00	O
ATOM	6695	N	VAL	702	2.765	81.085	31.733	1.00	0.00	N
ATOM	6696	HN	VAL	702	3.106	80.858	30.799	1.00	0.00	H
ATOM	6697	CA	VAL	702	3.704	81.243	32.804	1.00	0.00	C
ATOM	6698	CB	VAL	702	5.117	80.977	32.383	1.00	0.00	C
ATOM	6699	CG1	VAL	702	6.055	81.312	33.557	1.00	0.00	C
ATOM	6700	CG2	VAL	702	5.217	79.525	31.896	1.00	0.00	C
ATOM	6701	C	VAL	702	3.683	82.646	33.312	1.00	0.00	C
ATOM	6702	O	VAL	702	3.588	82.867	34.517	1.00	0.00	O
ATOM	6703	N	PHE	703	3.740	83.639	32.405	1.00	0.00	N
ATOM	6704	HN	PHE	703	3.699	83.426	31.408	1.00	0.00	H
ATOM	6705	CA	PHE	703	3.859	84.999	32.849	1.00	0.00	C
ATOM	6706	CB	PHE	703	3.878	86.024	31.702	1.00	0.00	C
ATOM	6707	CG	PHE	703	4.402	87.318	32.241	1.00	0.00	C
ATOM	6708	CD1	PHE	703	3.705	88.042	33.182	1.00	0.00	C
ATOM	6709	CD2	PHE	703	5.628	87.790	31.832	1.00	0.00	C
ATOM	6710	CE1	PHE	703	4.196	89.225	33.679	1.00	0.00	C
ATOM	6711	CE2	PHE	703	6.127	88.974	32.322	1.00	0.00	C
ATOM	6712	CZ	PHE	703	5.410	89.697	33.244	1.00	0.00	C
ATOM	6713	O	PHE	703	2.671	85.344	33.674	1.00	0.00	C
ATOM	6714	O	PHE	703	2.798	85.855	34.785	1.00	0.00	O
ATOM	6715	N	ARG	704	1.473	85.059	33.151	1.00	0.00	N
ATOM	6716	HN	ARG	704	1.404	84.592	32.247	1.00	0.00	H
ATOM	6717	CA	ARG	704	0.297	85.413	33.866	1.00	0.00	C
ATOM	6718	CB	ARG	704	-0.995	85.171	33.083	1.00	0.00	C
ATOM	6719	CG	ARG	704	-1.071	86.131	31.898	1.00	0.00	C
ATOM	6720	CD	ARG	704	-2.484	86.372	31.384	1.00	0.00	C
ATOM	6721	NE	ARG	704	-3.209	87.158	32.422	1.00	0.00	N
ATOM	6722	HE	ARG	704	-3.070	86.949	33.411	1.00	0.00	H
ATOM	6723	CZ	ARG	704	-4.060	88.159	32.047	1.00	0.00	C
ATOM	6724	NH1	ARG	704	-4.234	88.450	30.726	1.00	0.00	N
ATOM	6725	1HH1	ARG	704	-3.734	87.911	30.019	1.00	0.00	H
ATOM	6726	2HH1	ARG	704	-4.869	89.197	30.446	1.00	0.00	H
ATOM	6727	NH2	ARG	704	-4.729	88.880	32.993	1.00	0.00	N
ATOM	6728	1HH2	ARG	704	-4.599	88.662	33.981	1.00	0.00	H
ATOM	6729	2HH2	ARG	704	-5.364	89.627	32.713	1.00	0.00	H
ATOM	6730	C	ARG	704	0.299	84.640	35.129	1.00	0.00	C
ATOM	6731	O	ARG	704	-0.248	85.105	36.122	1.00	0.00	O

ATOM	6732	N	SER	705	0.912	83.440	35.127	1.00	0.00	N
ATOM	6733	HN	SER	705	1.338	83.085	34.271	1.00	0.00	H
ATOM	6734	CA	SER	705	0.963	82.664	36.331	1.00	0.00	C
ATOM	6735	CB	SER	705	1.817	81.392	36.197	1.00	0.00	C
ATOM	6736	OG	SER	705	1.194	80.464	35.322	1.00	0.00	O
ATOM	6737	HG	SER	705	1.722	79.678	35.239	1.00	0.00	H
ATOM	6738	C	SER	705	1.613	83.530	37.358	1.00	0.00	C
ATOM	6739	O	SER	705	1.177	83.563	38.505	1.00	0.00	O
ATOM	6740	N	MET	706	2.695	84.230	36.965	1.00	0.00	N
ATOM	6741	HN	MET	706	3.030	84.112	36.009	1.00	0.00	H
ATOM	6742	CA	MET	706	3.398	85.134	37.829	1.00	0.00	C
ATOM	6743	CB	MET	706	4.687	85.652	37.172	1.00	0.00	C
ATOM	6744	CG	MET	706	5.744	84.574	36.935	1.00	0.00	C
ATOM	6745	SD	MET	706	7.014	85.040	35.721	1.00	0.00	S
ATOM	6746	CE	MET	706	7.580	86.503	36.636	1.00	0.00	C
ATOM	6747	C	MET	706	2.591	86.360	38.170	1.00	0.00	C
ATOM	6748	O	MET	706	2.440	86.704	39.341	1.00	0.00	O
ATOM	6749	N	LEU	707	2.015	87.040	37.157	1.00	0.00	N
ATOM	6750	HN	LEU	707	2.061	86.670	36.208	1.00	0.00	H
ATOM	6751	CA	LEU	707	1.338	88.282	37.407	1.00	0.00	C
ATOM	6752	CB	LEU	707	0.760	88.912	36.125	1.00	0.00	C
ATOM	6753	CG	LEU	707	0.275	90.372	36.278	1.00	0.00	C
ATOM	6754	CD1	LEU	707	-0.872	90.517	37.293	1.00	0.00	C
ATOM	6755	CD2	LEU	707	1.453	91.319	36.560	1.00	0.00	C
ATOM	6756	C	LEU	707	0.200	87.977	38.325	1.00	0.00	C
ATOM	6757	O	LEU	707	-0.035	88.696	39.296	1.00	0.00	O
ATOM	6758	N	ARG	708	-0.532	86.888	38.018	1.00	0.00	N
ATOM	6759	HN	ARG	708	-0.279	86.357	37.185	1.00	0.00	H
ATOM	6760	CA	ARG	708	-1.648	86.433	38.798	1.00	0.00	C
ATOM	6761	CB	ARG	708	-2.367	85.226	38.173	1.00	0.00	C
ATOM	6762	CG	ARG	708	-3.125	85.560	36.886	1.00	0.00	C
ATOM	6763	CD	ARG	708	-3.941	84.384	36.344	1.00	0.00	C
ATOM	6764	NE	ARG	708	-2.984	83.376	35.808	1.00	0.00	N
ATOM	6765	HE	ARG	708	-2.453	82.785	36.447	1.00	0.00	H
ATOM	6766	CZ	ARG	708	-2.820	83.245	34.460	1.00	0.00	C
ATOM	6767	NH1	ARG	708	-3.570	83.997	33.603	1.00	0.00	N
ATOM	6768	1HH1	ARG	708	-3.447	83.899	32.595	1.00	0.00	H
ATOM	6769	2HH1	ARG	708	-4.249	84.664	33.971	1.00	0.00	H
ATOM	6770	NH2	ARG	708	-1.912	82.353	33.967	1.00	0.00	N
ATOM	6771	1HH2	ARG	708	-1.789	82.255	32.959	1.00	0.00	H
ATOM	6772	2HH2	ARG	708	-1.351	81.791	34.608	1.00	0.00	H
ATOM	6773	C	ARG	708	-1.111	86.008	40.110	1.00	0.00	C
ATOM	6774	O	ARG	708	-1.674	86.312	41.160	1.00	0.00	O
ATOM	6775	N	GLN	709	0.047	85.323	40.069	1.00	0.00	N
ATOM	6776	HN	GLN	709	0.448	85.068	39.166	1.00	0.00	H
ATOM	6777	CA	GLN	709	0.721	84.949	41.267	1.00	0.00	C
ATOM	6778	CB	GLN	709	2.094	84.279	41.061	1.00	0.00	C
ATOM	6779	CG	GLN	709	2.082	82.756	40.968	1.00	0.00	C
ATOM	6780	CD	GLN	709	2.297	82.254	42.393	1.00	0.00	C
ATOM	6781	OE1	GLN	709	2.636	81.095	42.623	1.00	0.00	O
ATOM	6782	NE2	GLN	709	2.118	83.168	43.385	1.00	0.00	N
ATOM	6783	1HE2	GLN	709	1.837	84.130	43.194	1.00	0.00	H
ATOM	6784	2HE2	GLN	709	2.262	82.832	44.337	1.00	0.00	H
ATOM	6785	C	GLN	709	1.008	86.236	41.949	1.00	0.00	C
ATOM	6786	O	GLN	709	0.886	87.322	41.388	1.00	0.00	O
ATOM	6787	N	ASP	710	1.335	86.140	43.230	1.00	0.00	N
ATOM	6788	HN	ASP	710	1.372	85.224	43.677	1.00	0.00	H
ATOM	6789	CA	ASP	710	1.633	87.304	43.980	1.00	0.00	C
ATOM	6790	CB	ASP	710	0.589	88.433	43.867	1.00	0.00	C
ATOM	6791	CG	ASP	710	-0.793	87.913	44.229	1.00	0.00	C
ATOM	6792	OD1	ASP	710	-0.940	86.707	44.561	1.00	0.00	O
ATOM	6793	OD2	ASP	710	-1.737	88.741	44.156	1.00	0.00	O
ATOM	6794	C	ASP	710	1.679	86.786	45.349	1.00	0.00	C
ATOM	6795	O	ASP	710	2.030	85.623	45.521	1.00	0.00	O
ATOM	6796	N	VAL	711	1.320	87.628	46.327	1.00	0.00	N
ATOM	6797	HN	VAL	711	1.003	88.563	46.072	1.00	0.00	H
ATOM	6798	CA	VAL	711	1.361	87.277	47.707	1.00	0.00	C
ATOM	6799	CB	VAL	711	0.523	86.107	48.203	1.00	0.00	C
ATOM	6800	CG1	VAL	711	-0.917	86.349	47.737	1.00	0.00	C
ATOM	6801	CG2	VAL	711	1.103	84.721	47.891	1.00	0.00	C
ATOM	6802	C	VAL	711	2.801	87.148	48.022	1.00	0.00	C
ATOM	6803	O	VAL	711	3.620	87.769	47.347	1.00	0.00	O
ATOM	6804	N	SER	712	3.149	86.312	49.010	1.00	0.00	N
ATOM	6805	HN	SER	712	2.420	85.732	49.426	1.00	0.00	H

ATOM	6806	CA	SER	712	4.481	86.183	49.517	1.00	0.00	C
ATOM	6807	CB	SER	712	4.566	85.141	50.645	1.00	0.00	C
ATOM	6808	OG	SER	712	5.892	85.061	51.146	1.00	0.00	O
ATOM	6809	HG	SER	712	5.945	84.417	51.843	1.00	0.00	H
ATOM	6810	C	SER	712	5.449	85.781	48.441	1.00	0.00	C
ATOM	6811	O	SER	712	6.634	85.620	48.725	1.00	0.00	O
ATOM	6812	N	TRP	713	4.992	85.577	47.191	1.00	0.00	N
ATOM	6813	HN	TRP	713	3.995	85.660	46.993	1.00	0.00	H
ATOM	6814	CA	TRP	713	5.908	85.243	46.136	1.00	0.00	C
ATOM	6815	CB	TRP	713	5.162	85.190	44.786	1.00	0.00	C
ATOM	6816	CG	TRP	713	5.945	84.823	43.546	1.00	0.00	C
ATOM	6817	CD2	TRP	713	6.309	83.480	43.189	1.00	0.00	C
ATOM	6818	CD1	TRP	713	6.411	85.625	42.546	1.00	0.00	C
ATOM	6819	NE1	TRP	713	7.022	84.865	41.577	1.00	0.00	N
ATOM	6820	HE1	TRP	713	7.443	85.220	40.718	1.00	0.00	H
ATOM	6821	CE2	TRP	713	6.970	83.543	41.962	1.00	0.00	C
ATOM	6822	CE3	TRP	713	6.102	82.293	43.829	1.00	0.00	C
ATOM	6823	CZ2	TRP	713	7.436	82.412	41.352	1.00	0.00	C
ATOM	6824	CZ3	TRP	713	6.577	81.156	43.213	1.00	0.00	C
ATOM	6825	CH2	TRP	713	7.230	81.214	41.999	1.00	0.00	C
ATOM	6826	C	TRP	713	6.958	86.313	46.093	1.00	0.00	C
ATOM	6827	O	TRP	713	8.074	86.070	46.532	1.00	0.00	O
ATOM	6828	N	PHE	714	6.639	87.525	45.596	1.00	0.00	N
ATOM	6829	HN	PHE	714	5.710	87.656	45.196	1.00	0.00	H
ATOM	6830	CA	PHE	714	7.546	88.645	45.602	1.00	0.00	C
ATOM	6831	CB	PHE	714	7.162	89.763	44.620	1.00	0.00	C
ATOM	6832	CG	PHE	714	7.025	89.171	43.262	1.00	0.00	C
ATOM	6833	CD1	PHE	714	8.103	88.614	42.615	1.00	0.00	C
ATOM	6834	CD2	PHE	714	5.806	89.208	42.625	1.00	0.00	C
ATOM	6835	CE1	PHE	714	7.959	88.078	41.356	1.00	0.00	C
ATOM	6836	CE2	PHE	714	5.657	88.676	41.367	1.00	0.00	C
ATOM	6837	CZ	PHE	714	6.735	88.107	40.731	1.00	0.00	C
ATOM	6838	C	PHE	714	7.450	89.261	46.963	1.00	0.00	C
ATOM	6839	O	PHE	714	8.366	89.930	47.434	1.00	0.00	O
ATOM	6840	N	ASP	715	6.275	89.086	47.601	1.00	0.00	N
ATOM	6841	HN	ASP	715	5.574	88.490	47.161	1.00	0.00	H
ATOM	6842	CA	ASP	715	5.954	89.690	48.863	1.00	0.00	C
ATOM	6843	CB	ASP	715	4.529	89.391	49.358	1.00	0.00	C
ATOM	6844	CG	ASP	715	3.565	90.229	48.521	1.00	0.00	C
ATOM	6845	OD1	ASP	715	3.949	90.602	47.381	1.00	0.00	O
ATOM	6846	OD2	ASP	715	2.435	90.502	49.006	1.00	0.00	O
ATOM	6847	C	ASP	715	6.929	89.241	49.911	1.00	0.00	C
ATOM	6848	O	ASP	715	7.139	89.957	50.891	1.00	0.00	O
ATOM	6849	N	ASP	716	7.469	88.010	49.777	1.00	0.00	N
ATOM	6850	HN	ASP	716	7.115	87.408	49.033	1.00	0.00	H
ATOM	6851	CA	ASP	716	8.517	87.497	50.624	1.00	0.00	C
ATOM	6852	CB	ASP	716	7.977	86.765	51.864	1.00	0.00	C
ATOM	6853	CG	ASP	716	9.083	86.648	52.903	1.00	0.00	C
ATOM	6854	OD1	ASP	716	9.817	87.651	53.108	1.00	0.00	O
ATOM	6855	OD2	ASP	716	9.210	85.547	53.504	1.00	0.00	O
ATOM	6856	C	ASP	716	9.208	86.485	49.748	1.00	0.00	C
ATOM	6857	O	ASP	716	9.021	85.277	49.888	1.00	0.00	O
ATOM	6858	N	PRO	717	10.005	87.008	48.850	1.00	0.00	N
ATOM	6859	CA	PRO	717	10.553	86.326	47.707	1.00	0.00	C
ATOM	6860	CD	PRO	717	10.292	88.429	48.825	1.00	0.00	C
ATOM	6861	CB	PRO	717	10.809	87.425	46.681	1.00	0.00	C
ATOM	6862	CG	PRO	717	11.146	88.640	47.560	1.00	0.00	C
ATOM	6863	C	PRO	717	11.769	85.477	47.774	1.00	0.00	C
ATOM	6864	O	PRO	717	12.485	85.468	48.775	1.00	0.00	O
ATOM	6865	N	LYS	718	11.981	84.766	46.642	1.00	0.00	N
ATOM	6866	HN	LYS	718	11.257	84.800	45.925	1.00	0.00	H
ATOM	6867	CA	LYS	718	13.135	83.974	46.371	1.00	0.00	C
ATOM	6868	CB	LYS	718	13.004	82.563	46.955	1.00	0.00	C
ATOM	6869	CG	LYS	718	12.795	82.599	48.466	1.00	0.00	C
ATOM	6870	CD	LYS	718	13.971	83.206	49.232	1.00	0.00	C
ATOM	6871	CE	LYS	718	13.577	83.741	50.609	1.00	0.00	C
ATOM	6872	NZ	LYS	718	12.312	83.113	51.044	1.00	0.00	N
ATOM	6873	HZ1	LYS	718	12.049	83.470	51.963	1.00	0.00	H
ATOM	6874	HZ2	LYS	718	12.363	82.094	51.028	1.00	0.00	H
ATOM	6875	HZ3	LYS	718	11.567	83.234	50.358	1.00	0.00	H
ATOM	6876	C	LYS	718	13.196	83.835	44.877	1.00	0.00	C
ATOM	6877	O	LYS	718	13.738	82.860	44.357	1.00	0.00	O
ATOM	6878	N	ASN	719	12.633	84.806	44.127	1.00	0.00	N
ATOM	6879	HN	ASN	719	12.195	85.621	44.556	1.00	0.00	H

ATOM	6880	CA	ASN	719	12.675	84.646	42.706	1.00	0.00	C
ATOM	6881	CB	ASN	719	11.342	84.109	42.164	1.00	0.00	C
ATOM	6882	CG	ASN	719	11.092	82.764	42.836	1.00	0.00	C
ATOM	6883	OD1	ASN	719	11.865	81.821	42.674	1.00	0.00	O
ATOM	6884	ND2	ASN	719	9.987	82.679	43.625	1.00	0.00	N
ATOM	6885	1HD2	ASN	719	9.820	81.779	44.075	1.00	0.00	H
ATOM	6886	2HD2	ASN	719	9.346	83.461	43.759	1.00	0.00	H
ATOM	6887	C	ASN	719	12.905	85.986	42.093	1.00	0.00	C
ATOM	6888	O	ASN	719	11.962	86.714	41.792	1.00	0.00	O
ATOM	6889	N	THR	720	14.179	86.293	41.809	1.00	0.00	N
ATOM	6890	HN	THR	720	14.897	85.586	41.969	1.00	0.00	H
ATOM	6891	CA	THR	720	14.578	87.564	41.292	1.00	0.00	C
ATOM	6892	CB	THR	720	16.068	87.722	41.229	1.00	0.00	C
ATOM	6893	OG1	THR	720	16.416	88.996	40.708	1.00	0.00	O
ATOM	6894	HG1	THR	720	16.063	89.691	41.251	1.00	0.00	H
ATOM	6895	CG2	THR	720	16.639	86.598	40.352	1.00	0.00	C
ATOM	6896	C	THR	720	14.046	87.728	39.917	1.00	0.00	C
ATOM	6897	O	THR	720	13.636	86.771	39.261	1.00	0.00	O
ATOM	6898	N	THR	721	14.053	88.990	39.455	1.00	0.00	N
ATOM	6899	HN	THR	721	14.441	89.735	40.034	1.00	0.00	H
ATOM	6900	CA	THR	721	13.527	89.304	38.168	1.00	0.00	C
ATOM	6901	CB	THR	721	13.658	90.758	37.823	1.00	0.00	C
ATOM	6902	OG1	THR	721	12.975	91.552	38.783	1.00	0.00	O
ATOM	6903	HG1	THR	721	13.058	92.473	38.565	1.00	0.00	H
ATOM	6904	CG2	THR	721	13.063	90.985	36.422	1.00	0.00	C
ATOM	6905	C	THR	721	14.291	88.524	37.148	1.00	0.00	C
ATOM	6906	O	THR	721	13.707	87.935	36.239	1.00	0.00	O
ATOM	6907	N	GLY	722	15.625	88.467	37.292	1.00	0.00	N
ATOM	6908	HN	GLY	722	16.069	88.912	38.096	1.00	0.00	H
ATOM	6909	CA	GLY	722	16.427	87.784	36.321	1.00	0.00	C
ATOM	6910	C	GLY	722	16.014	86.356	36.290	1.00	0.00	C
ATOM	6911	O	GLY	722	15.887	85.767	35.217	1.00	0.00	O
ATOM	6912	N	ALA	723	15.758	85.770	37.472	1.00	0.00	N
ATOM	6913	HN	ALA	723	15.808	86.310	38.336	1.00	0.00	H
ATOM	6914	CA	ALA	723	15.416	84.384	37.508	1.00	0.00	C
ATOM	6915	CB	ALA	723	15.095	83.881	38.927	1.00	0.00	C
ATOM	6916	C	ALA	723	14.193	84.215	36.675	1.00	0.00	C
ATOM	6917	O	ALA	723	14.047	83.223	35.967	1.00	0.00	O
ATOM	6918	N	LEU	724	13.270	85.186	36.759	1.00	0.00	N
ATOM	6919	HN	LEU	724	13.433	85.980	37.378	1.00	0.00	H
ATOM	6920	CA	LEU	724	12.057	85.128	35.993	1.00	0.00	C
ATOM	6921	CB	LEU	724	10.980	86.105	36.491	1.00	0.00	C
ATOM	6922	CG	LEU	724	10.284	85.641	37.788	1.00	0.00	C
ATOM	6923	CD1	LEU	724	9.428	84.390	37.539	1.00	0.00	C
ATOM	6924	CD2	LEU	724	11.274	85.426	38.938	1.00	0.00	C
ATOM	6925	C	LEU	724	12.224	85.329	34.510	1.00	0.00	C
ATOM	6926	O	LEU	724	11.688	84.546	33.722	1.00	0.00	O
ATOM	6927	N	THR	725	12.982	86.360	34.075	1.00	0.00	N
ATOM	6928	HN	THR	725	13.494	86.943	34.738	1.00	0.00	H
ATOM	6929	CA	THR	725	13.056	86.623	32.662	1.00	0.00	C
ATOM	6930	CB	THR	725	13.939	87.789	32.304	1.00	0.00	C
ATOM	6931	OG1	THR	725	15.287	87.511	32.649	1.00	0.00	O
ATOM	6932	HG1	THR	725	15.585	86.738	32.183	1.00	0.00	H
ATOM	6933	CG2	THR	725	13.458	89.038	33.057	1.00	0.00	C
ATOM	6934	C	THR	725	13.647	85.415	32.023	1.00	0.00	C
ATOM	6935	O	THR	725	13.191	84.940	30.979	1.00	0.00	O
ATOM	6936	N	THR	726	14.665	84.856	32.692	1.00	0.00	N
ATOM	6937	HN	THR	726	14.947	85.226	33.600	1.00	0.00	H
ATOM	6938	CA	THR	726	15.353	83.740	32.126	1.00	0.00	C
ATOM	6939	CB	THR	726	16.413	83.198	33.038	1.00	0.00	C
ATOM	6940	OG1	THR	726	17.375	84.203	33.325	1.00	0.00	O
ATOM	6941	HG1	THR	726	18.046	83.860	33.903	1.00	0.00	H
ATOM	6942	CG2	THR	726	17.082	81.994	32.352	1.00	0.00	C
ATOM	6943	C	THR	726	14.378	82.644	31.901	1.00	0.00	C
ATOM	6944	O	THR	726	14.273	82.097	30.801	1.00	0.00	O
ATOM	6945	N	ARG	727	13.578	82.350	32.935	1.00	0.00	N
ATOM	6946	HN	ARG	727	13.599	82.909	33.788	1.00	0.00	H
ATOM	6947	CA	ARG	727	12.695	81.235	32.813	1.00	0.00	C
ATOM	6948	CB	ARG	727	11.854	80.993	34.078	1.00	0.00	C
ATOM	6949	CG	ARG	727	12.662	80.341	35.202	1.00	0.00	C
ATOM	6950	CD	ARG	727	12.701	78.814	35.098	1.00	0.00	C
ATOM	6951	NE	ARG	727	13.566	78.300	36.198	1.00	0.00	N
ATOM	6952	HE	ARG	727	13.200	78.242	37.148	1.00	0.00	H
ATOM	6953	CZ	ARG	727	14.847	77.907	35.937	1.00	0.00	C

ATOM	6954	NH1	ARG	727	15.326	77.937	34.659	1.00	0.00	N
ATOM	6955	1HH1	ARG	727	14.728	78.260	33.898	1.00	0.00	H
ATOM	6956	2HH1	ARG	727	16.283	77.643	34.464	1.00	0.00	H
ATOM	6957	NH2	ARG	727	15.648	77.475	36.956	1.00	0.00	N
ATOM	6958	1HH2	ARG	727	15.290	77.453	37.911	1.00	0.00	H
ATOM	6959	2HH2	ARG	727	16.605	77.181	36.761	1.00	0.00	H
ATOM	6960	C	ARG	727	11.768	81.413	31.647	1.00	0.00	C
ATOM	6961	O	ARG	727	11.568	80.474	30.875	1.00	0.00	O
ATOM	6962	N	LEU	728	11.223	82.628	31.440	1.00	0.00	N
ATOM	6963	HN	LEU	728	11.504	83.437	31.995	1.00	0.00	H
ATOM	6964	CA	LEU	728	10.232	82.739	30.409	1.00	0.00	C
ATOM	6965	CB	LEU	728	9.661	84.155	30.243	1.00	0.00	C
ATOM	6966	CG	LEU	728	8.907	84.678	31.477	1.00	0.00	C
ATOM	6967	CD1	LEU	728	8.097	85.932	31.123	1.00	0.00	C
ATOM	6968	CD2	LEU	728	8.064	83.581	32.145	1.00	0.00	C
ATOM	6969	C	LEU	728	10.759	82.342	29.058	1.00	0.00	C
ATOM	6970	O	LEU	728	10.246	81.409	28.441	1.00	0.00	O
ATOM	6971	N	ALA	729	11.832	82.992	28.574	1.00	0.00	N
ATOM	6972	HN	ALA	729	12.356	83.649	29.152	1.00	0.00	H
ATOM	6973	CA	ALA	729	12.216	82.728	27.212	1.00	0.00	C
ATOM	6974	CB	ALA	729	13.303	83.694	26.708	1.00	0.00	C
ATOM	6975	C	ALA	729	12.719	81.339	26.963	1.00	0.00	C
ATOM	6976	O	ALA	729	12.166	80.619	26.129	1.00	0.00	O
ATOM	6977	N	ASN	730	13.733	80.885	27.724	1.00	0.00	N
ATOM	6978	HN	ASN	730	14.060	81.392	28.547	1.00	0.00	H
ATOM	6979	CA	ASN	730	14.327	79.642	27.307	1.00	0.00	C
ATOM	6980	CB	ASN	730	15.599	79.238	28.082	1.00	0.00	C
ATOM	6981	CG	ASN	730	15.255	78.840	29.509	1.00	0.00	C
ATOM	6982	OD1	ASN	730	14.800	77.726	29.764	1.00	0.00	O
ATOM	6983	ND2	ASN	730	15.505	79.765	30.474	1.00	0.00	N
ATOM	6984	1HD2	ASN	730	15.882	80.689	30.263	1.00	0.00	H
ATOM	6985	2HD2	ASN	730	15.274	79.498	31.431	1.00	0.00	H
ATOM	6986	C	ASN	730	13.345	78.523	27.428	1.00	0.00	C
ATOM	6987	O	ASN	730	13.180	77.733	26.498	1.00	0.00	O
ATOM	6988	N	ASP	731	12.611	78.493	28.554	1.00	0.00	N
ATOM	6989	HN	ASP	731	12.655	79.288	29.191	1.00	0.00	H
ATOM	6990	CA	ASP	731	11.765	77.378	28.892	1.00	0.00	C
ATOM	6991	CB	ASP	731	11.100	77.533	30.271	1.00	0.00	C
ATOM	6992	CG	ASP	731	12.185	77.357	31.324	1.00	0.00	C
ATOM	6993	OD1	ASP	731	13.041	76.450	31.140	1.00	0.00	O
ATOM	6994	OD2	ASP	731	12.186	78.135	32.315	1.00	0.00	O
ATOM	6995	C	ASP	731	10.672	77.140	27.900	1.00	0.00	C
ATOM	6996	O	ASP	731	10.372	75.984	27.600	1.00	0.00	O
ATOM	6997	N	ALA	732	10.033	78.199	27.369	1.00	0.00	N
ATOM	6998	HN	ALA	732	10.298	79.156	27.603	1.00	0.00	H
ATOM	6999	CA	ALA	732	8.961	77.917	26.458	1.00	0.00	C
ATOM	7000	CB	ALA	732	8.307	79.192	25.904	1.00	0.00	C
ATOM	7001	C	ALA	732	9.513	77.142	25.296	1.00	0.00	C
ATOM	7002	O	ALA	732	8.952	76.129	24.882	1.00	0.00	O
ATOM	7003	N	ALA	733	10.684	77.545	24.784	1.00	0.00	N
ATOM	7004	HN	ALA	733	11.213	78.302	25.216	1.00	0.00	H
ATOM	7005	CA	ALA	733	11.173	76.878	23.607	1.00	0.00	C
ATOM	7006	CB	ALA	733	12.511	77.459	23.120	1.00	0.00	C
ATOM	7007	C	ALA	733	11.389	75.412	23.844	1.00	0.00	C
ATOM	7008	O	ALA	733	10.915	74.568	23.081	1.00	0.00	O
ATOM	7009	N	GLN	734	12.041	75.069	24.964	1.00	0.00	N
ATOM	7010	HN	GLN	734	12.252	75.791	25.653	1.00	0.00	H
ATOM	7011	CA	GLN	734	12.451	73.719	25.225	1.00	0.00	C
ATOM	7012	CB	GLN	734	13.058	73.608	26.633	1.00	0.00	C
ATOM	7013	CG	GLN	734	14.072	74.711	26.961	1.00	0.00	C
ATOM	7014	CD	GLN	734	15.345	74.494	26.159	1.00	0.00	C
ATOM	7015	OE1	GLN	734	15.716	73.360	25.859	1.00	0.00	O
ATOM	7016	NE2	GLN	734	16.035	75.610	25.799	1.00	0.00	N
ATOM	7017	1HE2	GLN	734	16.889	75.464	25.261	1.00	0.00	H
ATOM	7018	2HE2	GLN	734	15.727	76.550	26.048	1.00	0.00	H
ATOM	7019	C	GLN	734	11.244	72.821	25.223	1.00	0.00	C
ATOM	7020	O	GLN	734	11.238	71.765	24.584	1.00	0.00	O
ATOM	7021	N	VAL	735	10.160	73.251	25.898	1.00	0.00	N
ATOM	7022	HN	VAL	735	10.157	74.190	26.295	1.00	0.00	H
ATOM	7023	CA	VAL	735	9.005	72.406	26.068	1.00	0.00	C
ATOM	7024	CB	VAL	735	7.894	73.048	26.858	1.00	0.00	C
ATOM	7025	CG1	VAL	735	8.413	73.382	28.268	1.00	0.00	C
ATOM	7026	CG2	VAL	735	7.352	74.256	26.080	1.00	0.00	C
ATOM	7027	C	VAL	735	8.442	72.018	24.737	1.00	0.00	C

ATOM	7028	O	VAL	735	8.051	70.863	24.544	1.00	0.00	O
ATOM	7029	N	LYS	736	8.436	72.970	23.780	1.00	0.00	N
ATOM	7030	HN	LYS	736	8.812	73.892	23.999	1.00	0.00	H
ATOM	7031	CA	LYS	736	7.917	72.726	22.463	1.00	0.00	C
ATOM	7032	CB	LYS	736	8.340	73.816	21.473	1.00	0.00	C
ATOM	7033	CG	LYS	736	8.009	73.473	20.019	1.00	0.00	C
ATOM	7034	CD	LYS	736	8.428	74.566	19.035	1.00	0.00	C
ATOM	7035	CE	LYS	736	8.119	75.973	19.552	1.00	0.00	C
ATOM	7036	NZ	LYS	736	8.649	76.996	18.618	1.00	0.00	N
ATOM	7037	HZ1	LYS	736	8.443	77.934	18.963	1.00	0.00	H
ATOM	7038	HZ2	LYS	736	8.305	76.857	17.668	1.00	0.00	H
ATOM	7039	HZ3	LYS	736	9.645	76.867	18.439	1.00	0.00	H
ATOM	7040	C	LYS	736	8.607	71.492	21.978	1.00	0.00	C
ATOM	7041	O	LYS	736	8.028	70.641	21.301	1.00	0.00	O
ATOM	7042	N	GLY	737	9.880	71.358	22.375	1.00	0.00	N
ATOM	7043	HN	GLY	737	10.295	72.070	22.976	1.00	0.00	H
ATOM	7044	CA	GLY	737	10.670	70.229	21.969	1.00	0.00	C
ATOM	7045	C	GLY	737	10.088	68.937	22.475	1.00	0.00	C
ATOM	7046	O	GLY	737	10.052	67.945	21.747	1.00	0.00	O
ATOM	7047	N	ALA	738	9.601	68.909	23.731	1.00	0.00	N
ATOM	7048	HN	ALA	738	9.556	69.768	24.279	1.00	0.00	H
ATOM	7049	CA	ALA	738	9.143	67.667	24.302	1.00	0.00	C
ATOM	7050	CB	ALA	738	8.666	67.822	25.759	1.00	0.00	C
ATOM	7051	C	ALA	738	7.997	67.078	23.502	1.00	0.00	C
ATOM	7052	O	ALA	738	7.891	65.856	23.381	1.00	0.00	O
ATOM	7053	N	ILE	739	7.062	67.917	23.005	1.00	0.00	N
ATOM	7054	HN	ILE	739	7.169	68.919	23.160	1.00	0.00	H
ATOM	7055	CA	ILE	739	5.911	67.444	22.258	1.00	0.00	C
ATOM	7056	CB	ILE	739	4.859	68.507	22.132	1.00	0.00	C
ATOM	7057	CG1	ILE	739	5.387	69.698	21.316	1.00	0.00	C
ATOM	7058	CG2	ILE	739	4.409	68.888	23.553	1.00	0.00	C
ATOM	7059	CD1	ILE	739	4.293	70.680	20.902	1.00	0.00	C
ATOM	7060	C	ILE	739	6.208	66.942	20.853	1.00	0.00	C
ATOM	7061	O	ILE	739	5.782	65.852	20.459	1.00	0.00	O
ATOM	7062	N	GLY	740	6.971	67.713	20.052	1.00	0.00	N
ATOM	7063	HN	GLY	740	7.382	68.570	20.422	1.00	0.00	H
ATOM	7064	CA	GLY	740	7.214	67.342	18.676	1.00	0.00	C
ATOM	7065	C	GLY	740	7.862	65.994	18.676	1.00	0.00	C
ATOM	7066	O	GLY	740	7.726	65.217	17.729	1.00	0.00	O
ATOM	7067	N	SER	741	8.621	65.717	19.750	1.00	0.00	N
ATOM	7068	HN	SER	741	8.681	66.417	20.489	1.00	0.00	H
ATOM	7069	CA	SER	741	9.354	64.491	19.918	1.00	0.00	C
ATOM	7070	CB	SER	741	10.076	64.453	21.282	1.00	0.00	C
ATOM	7071	OG	SER	741	10.792	63.238	21.447	1.00	0.00	O
ATOM	7072	HG	SER	741	11.236	63.215	22.286	1.00	0.00	H
ATOM	7073	C	SER	741	8.410	63.328	19.876	1.00	0.00	C
ATOM	7074	O	SER	741	8.664	62.327	19.201	1.00	0.00	O
ATOM	7075	N	ARG	742	7.264	63.457	20.565	1.00	0.00	N
ATOM	7076	HN	ARG	742	7.037	64.338	21.026	1.00	0.00	H
ATOM	7077	CA	ARG	742	6.365	62.348	20.646	1.00	0.00	C
ATOM	7078	CB	ARG	742	5.104	62.675	21.468	1.00	0.00	C
ATOM	7079	CG	ARG	742	5.411	63.189	22.885	1.00	0.00	C
ATOM	7080	CD	ARG	742	6.082	62.170	23.818	1.00	0.00	C
ATOM	7081	NE	ARG	742	6.307	62.842	25.132	1.00	0.00	N
ATOM	7082	HE	ARG	742	6.092	63.834	25.232	1.00	0.00	H
ATOM	7083	CZ	ARG	742	6.797	62.148	26.204	1.00	0.00	C
ATOM	7084	NH1	ARG	742	7.118	60.826	26.089	1.00	0.00	N
ATOM	7085	1HH1	ARG	742	6.994	60.354	25.193	1.00	0.00	H
ATOM	7086	2HH1	ARG	742	7.483	60.308	26.888	1.00	0.00	H
ATOM	7087	NH2	ARG	742	6.963	62.780	27.403	1.00	0.00	N
ATOM	7088	1HH2	ARG	742	6.723	63.768	27.489	1.00	0.00	H
ATOM	7089	2HH2	ARG	742	7.328	62.262	28.202	1.00	0.00	H
ATOM	7090	C	ARG	742	5.954	61.998	19.226	1.00	0.00	C
ATOM	7091	O	ARG	742	5.751	60.833	18.879	1.00	0.00	O
ATOM	7092	N	LEU	743	5.835	63.019	18.355	1.00	0.00	N
ATOM	7093	HN	LEU	743	6.071	63.960	18.670	1.00	0.00	H
ATOM	7094	CA	LEU	743	5.386	62.836	16.993	1.00	0.00	C
ATOM	7095	CB	LEU	743	5.207	64.179	16.264	1.00	0.00	C
ATOM	7096	CG	LEU	743	4.132	65.091	16.886	1.00	0.00	C
ATOM	7097	CD1	LEU	743	4.008	66.408	16.108	1.00	0.00	C
ATOM	7098	CD2	LEU	743	2.786	64.365	17.033	1.00	0.00	C
ATOM	7099	C	LEU	743	6.303	62.000	16.125	1.00	0.00	C
ATOM	7100	O	LEU	743	5.867	61.063	15.455	1.00	0.00	O
ATOM	7101	N	ALA	744	7.609	62.302	16.128	1.00	0.00	N

ATOM	7102	HN	ALA	744	7.929	63.033	16.763	1.00	0.00	H
ATOM	7103	CA	ALA	744	8.592	61.658	15.289	1.00	0.00	C
ATOM	7104	CB	ALA	744	10.001	62.249	15.463	1.00	0.00	C
ATOM	7105	C	ALA	744	8.657	60.215	15.652	1.00	0.00	C
ATOM	7106	O	ALA	744	9.217	59.405	14.913	1.00	0.00	O
ATOM	7107	N	VAL	745	8.235	59.898	16.887	1.00	0.00	N
ATOM	7108	HN	VAL	745	7.895	60.633	17.508	1.00	0.00	H
ATOM	7109	CA	VAL	745	8.257	58.543	17.342	1.00	0.00	C
ATOM	7110	CB	VAL	745	7.858	58.414	18.781	1.00	0.00	C
ATOM	7111	CG1	VAL	745	7.826	56.920	19.144	1.00	0.00	C
ATOM	7112	CG2	VAL	745	8.825	59.248	19.638	1.00	0.00	C
ATOM	7113	C	VAL	745	7.307	57.699	16.557	1.00	0.00	C
ATOM	7114	O	VAL	745	7.705	56.736	15.899	1.00	0.00	O
ATOM	7115	N	ILE	746	6.022	58.093	16.542	1.00	0.00	N
ATOM	7116	HN	ILE	746	5.742	58.976	16.969	1.00	0.00	H
ATOM	7117	CA	ILE	746	5.053	57.244	15.912	1.00	0.00	C
ATOM	7118	CB	ILE	746	3.642	57.764	15.992	1.00	0.00	C
ATOM	7119	CG1	ILE	746	2.653	56.661	15.578	1.00	0.00	C
ATOM	7120	CG2	ILE	746	3.526	59.048	15.153	1.00	0.00	C
ATOM	7121	CD1	ILE	746	1.197	56.998	15.897	1.00	0.00	C
ATOM	7122	C	ILE	746	5.423	57.092	14.471	1.00	0.00	C
ATOM	7123	O	ILE	746	5.345	55.999	13.907	1.00	0.00	O
ATOM	7124	N	THR	747	5.880	58.192	13.851	1.00	0.00	N
ATOM	7125	HN	THR	747	6.036	59.048	14.383	1.00	0.00	H
ATOM	7126	CA	THR	747	6.149	58.166	12.443	1.00	0.00	C
ATOM	7127	CB	THR	747	6.548	59.518	11.912	1.00	0.00	C
ATOM	7128	OG1	THR	747	6.789	59.441	10.515	1.00	0.00	O
ATOM	7129	HG1	THR	747	7.041	60.294	10.180	1.00	0.00	H
ATOM	7130	CG2	THR	747	7.800	60.022	12.645	1.00	0.00	C
ATOM	7131	C	THR	747	7.192	57.175	12.023	1.00	0.00	C
ATOM	7132	O	THR	747	6.881	56.246	11.278	1.00	0.00	O
ATOM	7133	N	GLN	748	8.429	57.274	12.546	1.00	0.00	N
ATOM	7134	HN	GLN	748	8.613	57.927	13.307	1.00	0.00	H
ATOM	7135	CA	GLN	748	9.490	56.453	12.025	1.00	0.00	C
ATOM	7136	CB	GLN	748	10.831	56.653	12.750	1.00	0.00	C
ATOM	7137	CG	GLN	748	10.789	56.195	14.208	1.00	0.00	C
ATOM	7138	CD	GLN	748	12.163	56.415	14.821	1.00	0.00	C
ATOM	7139	OE1	GLN	748	13.172	55.944	14.297	1.00	0.00	O
ATOM	7140	NE2	GLN	748	12.208	57.154	15.961	1.00	0.00	N
ATOM	7141	1HE2	GLN	748	13.130	57.302	16.372	1.00	0.00	H
ATOM	7142	2HE2	GLN	748	11.372	57.544	16.395	1.00	0.00	H
ATOM	7143	C	GLN	748	9.102	55.029	12.223	1.00	0.00	C
ATOM	7144	O	GLN	748	9.307	54.185	11.348	1.00	0.00	O
ATOM	7145	N	ASN	749	8.435	54.763	13.358	1.00	0.00	N
ATOM	7146	HN	ASN	749	8.162	55.524	13.980	1.00	0.00	H
ATOM	7147	CA	ASN	749	8.109	53.414	13.692	1.00	0.00	C
ATOM	7148	CB	ASN	749	7.238	53.308	14.949	1.00	0.00	C
ATOM	7149	CG	ASN	749	6.905	51.836	15.124	1.00	0.00	C
ATOM	7150	OD1	ASN	749	7.778	50.973	15.039	1.00	0.00	O
ATOM	7151	ND2	ASN	749	5.597	51.538	15.350	1.00	0.00	N
ATOM	7152	1HD2	ASN	749	4.873	52.253	15.420	1.00	0.00	H
ATOM	7153	2HD2	ASN	749	5.373	50.550	15.467	1.00	0.00	H
ATOM	7154	C	ASN	749	7.336	52.747	12.605	1.00	0.00	C
ATOM	7155	O	ASN	749	7.765	51.726	12.068	1.00	0.00	O
ATOM	7156	N	ILE	750	6.203	53.336	12.200	1.00	0.00	N
ATOM	7157	HN	ILE	750	5.932	54.251	12.559	1.00	0.00	H
ATOM	7158	CA	ILE	750	5.380	52.647	11.248	1.00	0.00	C
ATOM	7159	CB	ILE	750	4.139	53.411	10.883	1.00	0.00	C
ATOM	7160	CG1	ILE	750	3.227	53.586	12.109	1.00	0.00	C
ATOM	7161	CG2	ILE	750	3.467	52.682	9.706	1.00	0.00	C
ATOM	7162	CD1	ILE	750	2.758	52.263	12.713	1.00	0.00	C
ATOM	7163	C	ILE	750	6.140	52.438	9.980	1.00	0.00	C
ATOM	7164	O	ILE	750	6.136	51.337	9.428	1.00	0.00	O
ATOM	7165	N	ALA	751	6.856	53.481	9.517	1.00	0.00	N
ATOM	7166	HN	ALA	751	6.961	54.322	10.085	1.00	0.00	H
ATOM	7167	CA	ALA	751	7.470	53.406	8.223	1.00	0.00	C
ATOM	7168	CB	ALA	751	8.491	54.520	8.011	1.00	0.00	C
ATOM	7169	C	ALA	751	8.363	52.231	8.129	1.00	0.00	C
ATOM	7170	O	ALA	751	8.065	51.264	7.434	1.00	0.00	O
ATOM	7171	N	ASN	752	9.424	52.243	8.940	1.00	0.00	N
ATOM	7172	HN	ASN	752	9.514	52.954	9.666	1.00	0.00	H
ATOM	7173	CA	ASN	752	10.427	51.246	8.773	1.00	0.00	C
ATOM	7174	CB	ASN	752	11.555	51.412	9.807	1.00	0.00	C
ATOM	7175	CG	ASN	752	12.617	50.344	9.586	1.00	0.00	C

ATOM	7176	OD1	ASN	752	13.666	50.628	9.018	1.00	0.00	O
ATOM	7177	ND2	ASN	752	12.365	49.092	10.058	1.00	0.00	N
ATOM	7178	1HD2	ASN	752	11.492	48.856	10.530	1.00	0.00	H
ATOM	7179	2HD2	ASN	752	13.077	48.376	9.910	1.00	0.00	H
ATOM	7180	C	ASN	752	9.840	49.903	9.008	1.00	0.00	C
ATOM	7181	O	ASN	752	9.817	49.058	8.115	1.00	0.00	O
ATOM	7182	N	LEU	753	9.334	49.675	10.231	1.00	0.00	N
ATOM	7183	HN	LEU	753	9.263	50.411	10.933	1.00	0.00	H
ATOM	7184	CA	LEU	753	8.902	48.339	10.487	1.00	0.00	C
ATOM	7185	CB	LEU	753	8.578	48.078	11.969	1.00	0.00	C
ATOM	7186	CG	LEU	753	8.113	46.634	12.247	1.00	0.00	C
ATOM	7187	CD1	LEU	753	9.226	45.619	11.946	1.00	0.00	C
ATOM	7188	CD2	LEU	753	7.544	46.490	13.668	1.00	0.00	C
ATOM	7189	C	LEU	753	7.689	47.975	9.710	1.00	0.00	C
ATOM	7190	O	LEU	753	7.772	47.170	8.789	1.00	0.00	O
ATOM	7191	N	GLY	754	6.570	48.689	9.949	1.00	0.00	N
ATOM	7192	HN	GLY	754	6.627	49.564	10.470	1.00	0.00	H
ATOM	7193	CA	GLY	754	5.299	48.222	9.473	1.00	0.00	C
ATOM	7194	C	GLY	754	5.303	48.011	7.995	1.00	0.00	C
ATOM	7195	O	GLY	754	4.903	46.950	7.517	1.00	0.00	O
ATOM	7196	N	THR	755	5.768	48.995	7.216	1.00	0.00	N
ATOM	7197	HN	THR	755	6.130	49.867	7.601	1.00	0.00	H
ATOM	7198	CA	THR	755	5.725	48.744	5.806	1.00	0.00	C
ATOM	7199	CB	THR	755	5.912	49.944	4.940	1.00	0.00	C
ATOM	7200	OG1	THR	755	7.195	50.474	5.162	1.00	0.00	O
ATOM	7201	HG1	THR	755	7.314	51.238	4.610	1.00	0.00	H
ATOM	7202	CG2	THR	755	4.847	50.998	5.272	1.00	0.00	C
ATOM	7203	C	THR	755	6.757	47.722	5.438	1.00	0.00	C
ATOM	7204	O	THR	755	6.542	46.911	4.539	1.00	0.00	O
ATOM	7205	N	GLY	756	7.919	47.738	6.117	1.00	0.00	N
ATOM	7206	HN	GLY	756	8.053	48.399	6.882	1.00	0.00	H
ATOM	7207	CA	GLY	756	8.971	46.825	5.765	1.00	0.00	C
ATOM	7208	C	GLY	756	8.506	45.423	5.987	1.00	0.00	C
ATOM	7209	O	GLY	756	8.809	44.534	5.198	1.00	0.00	O
ATOM	7210	N	ILE	757	7.772	45.187	7.087	1.00	0.00	N
ATOM	7211	HN	ILE	757	7.522	45.971	7.690	1.00	0.00	H
ATOM	7212	CA	ILE	757	7.328	43.872	7.442	1.00	0.00	C
ATOM	7213	CB	ILE	757	6.707	43.816	8.810	1.00	0.00	C
ATOM	7214	CG1	ILE	757	6.608	42.363	9.299	1.00	0.00	C
ATOM	7215	CG2	ILE	757	5.361	44.554	8.771	1.00	0.00	C
ATOM	7216	CD1	ILE	757	6.279	42.249	10.788	1.00	0.00	C
ATOM	7217	C	ILE	757	6.343	43.355	6.438	1.00	0.00	C
ATOM	7218	O	ILE	757	6.382	42.186	6.059	1.00	0.00	O
ATOM	7219	N	ILE	758	5.415	44.205	5.973	1.00	0.00	N
ATOM	7220	HN	ILE	758	5.397	45.180	6.272	1.00	0.00	H
ATOM	7221	CA	ILE	758	4.452	43.699	5.045	1.00	0.00	C
ATOM	7222	CB	ILE	758	3.399	44.724	4.696	1.00	0.00	C
ATOM	7223	CG1	ILE	758	2.204	44.062	3.993	1.00	0.00	C
ATOM	7224	CG2	ILE	758	4.038	45.886	3.916	1.00	0.00	C
ATOM	7225	CD1	ILE	758	2.527	43.429	2.642	1.00	0.00	C
ATOM	7226	C	ILE	758	5.208	43.259	3.827	1.00	0.00	C
ATOM	7227	O	ILE	758	5.011	42.158	3.313	1.00	0.00	O
ATOM	7228	N	ILE	759	6.148	44.099	3.373	1.00	0.00	N
ATOM	7229	HN	ILE	759	6.291	44.979	3.869	1.00	0.00	H
ATOM	7230	CA	ILE	759	6.961	43.825	2.230	1.00	0.00	C
ATOM	7231	CB	ILE	759	7.907	44.942	1.898	1.00	0.00	C
ATOM	7232	CG1	ILE	759	7.118	46.242	1.661	1.00	0.00	C
ATOM	7233	CG2	ILE	759	8.739	44.508	0.679	1.00	0.00	C
ATOM	7234	CD1	ILE	759	6.089	46.130	0.537	1.00	0.00	C
ATOM	7235	C	ILE	759	7.766	42.627	2.589	1.00	0.00	C
ATOM	7236	O	ILE	759	8.299	41.925	1.734	1.00	0.00	O
ATOM	7237	N	SER	760	7.972	42.442	3.899	1.00	0.00	N
ATOM	7238	HN	SER	760	7.594	43.114	4.567	1.00	0.00	H
ATOM	7239	CA	SER	760	8.711	41.320	4.374	1.00	0.00	C
ATOM	7240	CB	SER	760	8.971	41.365	5.887	1.00	0.00	C
ATOM	7241	OG	SER	760	9.545	40.146	6.319	1.00	0.00	O
ATOM	7242	HG	SER	760	9.706	40.174	7.255	1.00	0.00	H
ATOM	7243	C	SER	760	7.944	40.083	4.050	1.00	0.00	C
ATOM	7244	O	SER	760	8.527	39.019	3.845	1.00	0.00	O
ATOM	7245	N	PHE	761	6.604	40.191	4.000	1.00	0.00	N
ATOM	7246	HN	PHE	761	6.155	41.087	4.191	1.00	0.00	H
ATOM	7247	CA	PHE	761	5.811	39.043	3.678	1.00	0.00	C
ATOM	7248	CB	PHE	761	4.301	39.335	3.662	1.00	0.00	C
ATOM	7249	CG	PHE	761	3.845	39.571	5.060	1.00	0.00	C

ATOM	7250	CD1	PHE	761	3.502	38.509	5.866	1.00	0.00	C
ATOM	7251	CD2	PHE	761	3.751	40.849	5.561	1.00	0.00	C
ATOM	7252	CE1	PHE	761	3.078	38.716	7.157	1.00	0.00	C
ATOM	7253	CE2	PHE	761	3.327	41.060	6.851	1.00	0.00	C
ATOM	7254	CZ	PHE	761	2.989	39.995	7.651	1.00	0.00	C
ATOM	7255	C	PHE	761	6.175	38.624	2.294	1.00	0.00	C
ATOM	7256	O	PHE	761	6.513	37.468	2.048	1.00	0.00	O
ATOM	7257	N	ILE	762	6.183	39.589	1.359	1.00	0.00	N
ATOM	7258	HN	ILE	762	5.997	40.556	1.624	1.00	0.00	H
ATOM	7259	CA	ILE	762	6.452	39.261	-0.006	1.00	0.00	C
ATOM	7260	CB	ILE	762	6.332	40.417	-0.979	1.00	0.00	C
ATOM	7261	CG1	ILE	762	7.402	41.507	-0.808	1.00	0.00	C
ATOM	7262	CG2	ILE	762	4.908	40.970	-0.817	1.00	0.00	C
ATOM	7263	CD1	ILE	762	8.788	41.136	-1.335	1.00	0.00	C
ATOM	7264	C	ILE	762	7.825	38.681	-0.046	1.00	0.00	C
ATOM	7265	O	ILE	762	8.140	37.886	-0.930	1.00	0.00	O
ATOM	7266	N	TYR	763	8.710	39.117	0.875	1.00	0.00	N
ATOM	7267	HN	TYR	763	8.461	39.831	1.559	1.00	0.00	H
ATOM	7268	CA	TYR	763	10.019	38.527	0.846	1.00	0.00	C
ATOM	7269	CB	TYR	763	11.049	38.903	1.917	1.00	0.00	C
ATOM	7270	CG	TYR	763	11.431	40.337	1.929	1.00	0.00	C
ATOM	7271	CD1	TYR	763	11.856	41.007	0.806	1.00	0.00	C
ATOM	7272	CD2	TYR	763	11.336	41.018	3.113	1.00	0.00	C
ATOM	7273	CE1	TYR	763	12.193	42.339	0.888	1.00	0.00	C
ATOM	7274	CE2	TYR	763	11.669	42.342	3.207	1.00	0.00	C
ATOM	7275	CZ	TYR	763	12.100	43.003	2.090	1.00	0.00	C
ATOM	7276	OH	TYR	763	12.439	44.365	2.198	1.00	0.00	O
ATOM	7277	HH	TYR	763	12.375	44.823	3.028	1.00	0.00	H
ATOM	7278	C	TYR	763	9.844	37.062	1.054	1.00	0.00	C
ATOM	7279	O	TYR	763	8.950	36.635	1.785	1.00	0.00	O
ATOM	7280	N	GLY	764	10.704	36.253	0.402	1.00	0.00	N
ATOM	7281	HN	GLY	764	11.460	36.652	-0.154	1.00	0.00	H
ATOM	7282	CA	GLY	764	10.553	34.832	0.493	1.00	0.00	C
ATOM	7283	C	GLY	764	11.503	34.222	1.489	1.00	0.00	C
ATOM	7284	O	GLY	764	12.244	33.296	1.166	1.00	0.00	O
ATOM	7285	N	TRP	765	11.543	34.762	2.719	1.00	0.00	N
ATOM	7286	HN	TRP	765	11.144	35.689	2.867	1.00	0.00	H
ATOM	7287	CA	TRP	765	12.134	34.068	3.833	1.00	0.00	C
ATOM	7288	CB	TRP	765	11.453	32.701	4.007	1.00	0.00	C
ATOM	7289	CG	TRP	765	9.950	32.783	4.133	1.00	0.00	C
ATOM	7290	CD2	TRP	765	9.170	32.205	5.191	1.00	0.00	C
ATOM	7291	CD1	TRP	765	9.062	33.343	3.261	1.00	0.00	C
ATOM	7292	NE1	TRP	765	7.779	33.165	3.715	1.00	0.00	N
ATOM	7293	HE1	TRP	765	6.932	33.497	3.254	1.00	0.00	H
ATOM	7294	CE2	TRP	765	7.829	32.461	4.900	1.00	0.00	C
ATOM	7295	CE3	TRP	765	9.539	31.511	6.308	1.00	0.00	C
ATOM	7296	CZ2	TRP	765	6.833	32.026	5.726	1.00	0.00	C
ATOM	7297	CZ3	TRP	765	8.531	31.081	7.142	1.00	0.00	C
ATOM	7298	CH2	TRP	765	7.205	31.333	6.857	1.00	0.00	C
ATOM	7299	C	TRP	765	13.606	33.777	3.670	1.00	0.00	C
ATOM	7300	O	TRP	765	14.127	32.939	4.404	1.00	0.00	O
ATOM	7301	N	GLN	766	14.300	34.286	2.634	1.00	0.00	N
ATOM	7302	HN	GLN	766	13.831	34.815	1.899	1.00	0.00	H
ATOM	7303	CA	GLN	766	15.726	34.063	2.591	1.00	0.00	C
ATOM	7304	CB	GLN	766	16.194	33.722	1.172	1.00	0.00	C
ATOM	7305	CG	GLN	766	15.395	32.558	0.589	1.00	0.00	C
ATOM	7306	CD	GLN	766	15.298	31.488	1.666	1.00	0.00	C
ATOM	7307	OE1	GLN	766	16.308	31.026	2.194	1.00	0.00	O
ATOM	7308	NE2	GLN	766	14.045	31.090	2.011	1.00	0.00	N
ATOM	7309	1HE2	GLN	766	13.207	31.473	1.573	1.00	0.00	H
ATOM	7310	2HE2	GLN	766	13.980	30.373	2.733	1.00	0.00	H
ATOM	7311	C	GLN	766	16.547	35.227	3.084	1.00	0.00	C
ATOM	7312	O	GLN	766	17.651	35.067	3.606	1.00	0.00	O
ATOM	7313	N	LEU	767	16.123	36.433	2.660	1.00	0.00	N
ATOM	7314	HN	LEU	767	15.290	36.439	2.071	1.00	0.00	H
ATOM	7315	CA	LEU	767	16.712	37.710	2.945	1.00	0.00	C
ATOM	7316	CB	LEU	767	16.581	38.685	1.766	1.00	0.00	C
ATOM	7317	CG	LEU	767	17.369	38.229	0.523	1.00	0.00	C
ATOM	7318	CD1	LEU	767	18.879	38.184	0.805	1.00	0.00	C
ATOM	7319	CD2	LEU	767	16.829	36.903	-0.035	1.00	0.00	C
ATOM	7320	C	LEU	767	16.144	38.375	4.140	1.00	0.00	C
ATOM	7321	O	LEU	767	16.885	39.008	4.875	1.00	0.00	O
ATOM	7322	N	THR	768	14.815	38.268	4.353	1.00	0.00	N
ATOM	7323	HN	THR	768	14.259	37.660	3.751	1.00	0.00	H

ATOM	7324	CA	THR	768	14.168	38.995	5.413	1.00	0.00	C
ATOM	7325	CB	THR	768	12.773	38.535	5.676	1.00	0.00	C
ATOM	7326	OG1	THR	768	11.986	38.641	4.506	1.00	0.00	O
ATOM	7327	HG1	THR	768	12.351	38.106	3.811	1.00	0.00	H
ATOM	7328	CG2	THR	768	12.182	39.400	6.800	1.00	0.00	C
ATOM	7329	C	THR	768	14.889	38.640	6.649	1.00	0.00	C
ATOM	7330	O	THR	768	15.363	39.503	7.385	1.00	0.00	O
ATOM	7331	N	LEU	769	15.035	37.328	6.849	1.00	0.00	N
ATOM	7332	HN	LEU	769	14.607	36.670	6.197	1.00	0.00	H
ATOM	7333	CA	LEU	769	15.776	36.833	7.955	1.00	0.00	C
ATOM	7334	CB	LEU	769	15.742	35.310	8.082	1.00	0.00	C
ATOM	7335	CG	LEU	769	16.568	34.833	9.284	1.00	0.00	C
ATOM	7336	CD1	LEU	769	15.974	35.360	10.600	1.00	0.00	C
ATOM	7337	CD2	LEU	769	16.760	33.309	9.269	1.00	0.00	C
ATOM	7338	C	LEU	769	17.203	37.198	7.750	1.00	0.00	C
ATOM	7339	O	LEU	769	17.913	37.554	8.684	1.00	0.00	O
ATOM	7340	N	LEU	770	17.653	37.151	6.490	1.00	0.00	N
ATOM	7341	HN	LEU	770	16.999	36.963	5.730	1.00	0.00	H
ATOM	7342	CA	LEU	770	19.034	37.360	6.194	1.00	0.00	C
ATOM	7343	CB	LEU	770	19.313	37.331	4.678	1.00	0.00	C
ATOM	7344	CG	LEU	770	20.802	37.477	4.312	1.00	0.00	C
ATOM	7345	CD1	LEU	770	21.625	36.299	4.858	1.00	0.00	C
ATOM	7346	CD2	LEU	770	20.990	37.672	2.799	1.00	0.00	C
ATOM	7347	C	LEU	770	19.484	38.692	6.742	1.00	0.00	C
ATOM	7348	O	LEU	770	20.557	38.769	7.330	1.00	0.00	O
ATOM	7349	N	LEU	771	18.714	39.773	6.498	1.00	0.00	N
ATOM	7350	HN	LEU	771	17.860	39.596	5.969	1.00	0.00	H
ATOM	7351	CA	LEU	771	18.935	41.140	6.883	1.00	0.00	C
ATOM	7352	CB	LEU	771	18.090	42.131	6.081	1.00	0.00	C
ATOM	7353	CG	LEU	771	18.357	43.579	6.524	1.00	0.00	C
ATOM	7354	CD1	LEU	771	19.672	44.116	5.940	1.00	0.00	C
ATOM	7355	CD2	LEU	771	17.138	44.477	6.300	1.00	0.00	C
ATOM	7356	C	LEU	771	18.610	41.466	8.300	1.00	0.00	C
ATOM	7357	O	LEU	771	19.389	42.143	8.955	1.00	0.00	O
ATOM	7358	N	LEU	772	17.467	40.989	8.820	1.00	0.00	N
ATOM	7359	HN	LEU	772	16.919	40.317	8.284	1.00	0.00	H
ATOM	7360	CA	LEU	772	16.997	41.404	10.117	1.00	0.00	C
ATOM	7361	CB	LEU	772	15.811	40.575	10.616	1.00	0.00	C
ATOM	7362	CG	LEU	772	14.561	40.640	9.742	1.00	0.00	C
ATOM	7363	CD1	LEU	772	13.460	39.770	10.353	1.00	0.00	C
ATOM	7364	CD2	LEU	772	14.113	42.085	9.487	1.00	0.00	C
ATOM	7365	C	LEU	772	18.066	41.072	11.082	1.00	0.00	C
ATOM	7366	O	LEU	772	18.230	41.737	12.096	1.00	0.00	O
ATOM	7367	N	ALA	773	18.796	39.985	10.839	1.00	0.00	N
ATOM	7368	HN	ALA	773	18.624	39.389	10.030	1.00	0.00	H
ATOM	7369	CA	ALA	773	19.834	39.703	11.778	1.00	0.00	C
ATOM	7370	CB	ALA	773	20.578	38.396	11.460	1.00	0.00	C
ATOM	7371	C	ALA	773	20.844	40.813	11.727	1.00	0.00	C
ATOM	7372	O	ALA	773	21.268	41.336	12.756	1.00	0.00	O
ATOM	7373	N	ILE	774	21.229	41.210	10.501	1.00	0.00	N
ATOM	7374	HN	ILE	774	20.773	40.777	9.698	1.00	0.00	H
ATOM	7375	CA	ILE	774	22.236	42.200	10.243	1.00	0.00	C
ATOM	7376	CB	ILE	774	22.526	42.344	8.776	1.00	0.00	C
ATOM	7377	CG1	ILE	774	23.069	41.022	8.207	1.00	0.00	C
ATOM	7378	CG2	ILE	774	23.488	43.531	8.599	1.00	0.00	C
ATOM	7379	CD1	ILE	774	24.375	40.572	8.858	1.00	0.00	C
ATOM	7380	C	ILE	774	21.857	43.566	10.742	1.00	0.00	C
ATOM	7381	O	ILE	774	22.642	44.194	11.449	1.00	0.00	O
ATOM	7382	N	VAL	775	20.650	44.077	10.423	1.00	0.00	N
ATOM	7383	HN	VAL	775	19.959	43.523	9.917	1.00	0.00	H
ATOM	7384	CA	VAL	775	20.371	45.430	10.821	1.00	0.00	C
ATOM	7385	CB	VAL	775	19.072	45.961	10.294	1.00	0.00	C
ATOM	7386	CG1	VAL	775	18.833	47.351	10.906	1.00	0.00	C
ATOM	7387	CG2	VAL	775	19.138	45.971	8.757	1.00	0.00	C
ATOM	7388	C	VAL	775	20.406	45.534	12.312	1.00	0.00	C
ATOM	7389	O	VAL	775	21.055	46.438	12.824	1.00	0.00	O
ATOM	7390	N	PRO	776	19.772	44.686	13.061	1.00	0.00	N
ATOM	7391	CA	PRO	776	19.959	44.844	14.468	1.00	0.00	C
ATOM	7392	CD	PRO	776	18.371	44.424	12.792	1.00	0.00	C
ATOM	7393	CB	PRO	776	18.927	43.938	15.121	1.00	0.00	C
ATOM	7394	CG	PRO	776	17.735	44.081	14.154	1.00	0.00	C
ATOM	7395	C	PRO	776	21.375	44.724	14.928	1.00	0.00	C
ATOM	7396	O	PRO	776	21.735	45.448	15.850	1.00	0.00	O
ATOM	7397	N	ILE	777	22.207	43.863	14.319	1.00	0.00	N

ATOM	7398	HN	ILE	777	21.883	43.289	13.540	1.00	0.00	H
ATOM	7399	CA	ILE	777	23.561	43.766	14.786	1.00	0.00	C
ATOM	7400	CB	ILE	777	24.294	42.580	14.217	1.00	0.00	C
ATOM	7401	CG1	ILE	777	25.505	42.274	15.101	1.00	0.00	C
ATOM	7402	CG2	ILE	777	24.637	42.817	12.737	1.00	0.00	C
ATOM	7403	CD1	ILE	777	25.077	41.836	16.498	1.00	0.00	C
ATOM	7404	C	ILE	777	24.301	45.034	14.468	1.00	0.00	C
ATOM	7405	O	ILE	777	25.021	45.573	15.307	1.00	0.00	O
ATOM	7406	N	ILE	778	24.140	45.546	13.233	1.00	0.00	N
ATOM	7407	HN	ILE	778	23.527	45.053	12.583	1.00	0.00	H
ATOM	7408	CA	ILE	778	24.782	46.745	12.781	1.00	0.00	C
ATOM	7409	CB	ILE	778	24.554	46.939	11.308	1.00	0.00	C
ATOM	7410	CG1	ILE	778	25.228	48.210	10.810	1.00	0.00	C
ATOM	7411	CG2	ILE	778	23.055	46.873	11.002	1.00	0.00	C
ATOM	7412	CD1	ILE	778	25.203	48.320	9.286	1.00	0.00	C
ATOM	7413	C	ILE	778	24.257	47.922	13.552	1.00	0.00	C
ATOM	7414	O	ILE	778	25.021	48.783	13.982	1.00	0.00	O
ATOM	7415	N	ALA	779	22.926	47.990	13.749	1.00	0.00	N
ATOM	7416	HN	ALA	779	22.338	47.247	13.372	1.00	0.00	H
ATOM	7417	CA	ALA	779	22.298	49.065	14.468	1.00	0.00	C
ATOM	7418	CB	ALA	779	20.769	48.924	14.529	1.00	0.00	C
ATOM	7419	C	ALA	779	22.805	49.016	15.869	1.00	0.00	C
ATOM	7420	O	ALA	779	23.155	50.040	16.455	1.00	0.00	O
ATOM	7421	N	ILE	780	22.892	47.795	16.425	1.00	0.00	N
ATOM	7422	HN	ILE	780	22.611	46.976	15.887	1.00	0.00	H
ATOM	7423	CA	ILE	780	23.373	47.630	17.760	1.00	0.00	C
ATOM	7424	CB	ILE	780	23.400	46.206	18.249	1.00	0.00	C
ATOM	7425	CG1	ILE	780	21.975	45.712	18.555	1.00	0.00	C
ATOM	7426	CG2	ILE	780	24.342	46.134	19.460	1.00	0.00	C
ATOM	7427	CD1	ILE	780	21.887	44.201	18.761	1.00	0.00	C
ATOM	7428	C	ILE	780	24.755	48.176	17.780	1.00	0.00	C
ATOM	7429	O	ILE	780	25.192	48.716	18.792	1.00	0.00	O
ATOM	7430	N	ALA	781	25.495	48.029	16.667	1.00	0.00	N
ATOM	7431	HN	ALA	781	25.103	47.555	15.853	1.00	0.00	H
ATOM	7432	CA	ALA	781	26.832	48.537	16.624	1.00	0.00	C
ATOM	7433	CB	ALA	781	27.525	48.273	15.277	1.00	0.00	C
ATOM	7434	C	ALA	781	26.797	50.020	16.830	1.00	0.00	C
ATOM	7435	O	ALA	781	27.549	50.532	17.654	1.00	0.00	O
ATOM	7436	N	GLY	782	25.876	50.744	16.158	1.00	0.00	N
ATOM	7437	HN	GLY	782	25.178	50.269	15.586	1.00	0.00	H
ATOM	7438	CA	GLY	782	25.872	52.184	16.243	1.00	0.00	C
ATOM	7439	C	GLY	782	25.757	52.578	17.682	1.00	0.00	C
ATOM	7440	O	GLY	782	26.491	53.451	18.147	1.00	0.00	O
ATOM	7441	N	VAL	783	24.836	51.939	18.426	1.00	0.00	N
ATOM	7442	HN	VAL	783	24.239	51.229	18.002	1.00	0.00	H
ATOM	7443	CA	VAL	783	24.696	52.260	19.817	1.00	0.00	C
ATOM	7444	CB	VAL	783	23.464	51.670	20.450	1.00	0.00	C
ATOM	7445	CG1	VAL	783	22.247	52.232	19.705	1.00	0.00	C
ATOM	7446	CG2	VAL	783	23.540	50.136	20.454	1.00	0.00	C
ATOM	7447	C	VAL	783	25.894	51.787	20.598	1.00	0.00	C
ATOM	7448	O	VAL	783	26.464	52.545	21.378	1.00	0.00	O
ATOM	7449	N	VAL	784	26.336	50.531	20.379	1.00	0.00	N
ATOM	7450	HN	VAL	784	25.907	49.986	19.631	1.00	0.00	H
ATOM	7451	CA	VAL	784	27.389	49.926	21.156	1.00	0.00	C
ATOM	7452	CB	VAL	784	27.653	48.496	20.778	1.00	0.00	C
ATOM	7453	CG1	VAL	784	28.181	48.448	19.334	1.00	0.00	C
ATOM	7454	CG2	VAL	784	28.615	47.889	21.814	1.00	0.00	C
ATOM	7455	C	VAL	784	28.667	50.683	20.991	1.00	0.00	C
ATOM	7456	O	VAL	784	29.397	50.872	21.962	1.00	0.00	O
ATOM	7457	N	GLU	785	28.996	51.125	19.761	1.00	0.00	N
ATOM	7458	HN	GLU	785	28.383	50.946	18.966	1.00	0.00	H
ATOM	7459	CA	GLU	785	30.219	51.850	19.586	1.00	0.00	C
ATOM	7460	CB	GLU	785	30.483	52.292	18.144	1.00	0.00	C
ATOM	7461	CG	GLU	785	31.803	53.052	18.028	1.00	0.00	C
ATOM	7462	CD	GLU	785	31.783	53.827	16.726	1.00	0.00	C
ATOM	7463	OE1	GLU	785	31.263	54.975	16.741	1.00	0.00	O
ATOM	7464	OE2	GLU	785	32.279	53.287	15.703	1.00	0.00	O
ATOM	7465	C	GLU	785	30.109	53.103	20.385	1.00	0.00	C
ATOM	7466	O	GLU	785	31.040	53.488	21.088	1.00	0.00	O
ATOM	7467	N	MET	786	28.937	53.756	20.321	1.00	0.00	N
ATOM	7468	HN	MET	786	28.186	53.380	19.743	1.00	0.00	H
ATOM	7469	CA	MET	786	28.722	54.970	21.049	1.00	0.00	C
ATOM	7470	CB	MET	786	27.285	55.507	20.893	1.00	0.00	C
ATOM	7471	CG	MET	786	26.807	56.366	22.071	1.00	0.00	C

ATOM	7472	SD	MET	786	26.094	55.398	23.446	1.00	0.00	S
ATOM	7473	CE	MET	786	26.233	56.691	24.712	1.00	0.00	C
ATOM	7474	C	MET	786	28.922	54.688	22.505	1.00	0.00	C
ATOM	7475	O	MET	786	29.565	55.467	23.203	1.00	0.00	O
ATOM	7476	N	LYS	787	28.386	53.553	22.995	1.00	0.00	N
ATOM	7477	HN	LYS	787	27.912	52.922	22.348	1.00	0.00	H
ATOM	7478	CA	LYS	787	28.449	53.186	24.386	1.00	0.00	C
ATOM	7479	CB	LYS	787	27.794	51.809	24.624	1.00	0.00	C
ATOM	7480	CG	LYS	787	28.340	51.033	25.830	1.00	0.00	C
ATOM	7481	CD	LYS	787	28.002	51.588	27.213	1.00	0.00	C
ATOM	7482	CE	LYS	787	28.823	50.932	28.330	1.00	0.00	C
ATOM	7483	NZ	LYS	787	28.828	49.459	28.170	1.00	0.00	N
ATOM	7484	HZ1	LYS	787	29.374	49.023	28.913	1.00	0.00	H
ATOM	7485	HZ2	LYS	787	29.153	49.178	27.245	1.00	0.00	H
ATOM	7486	HZ3	LYS	787	27.883	49.079	28.120	1.00	0.00	H
ATOM	7487	C	LYS	787	29.875	53.062	24.865	1.00	0.00	C
ATOM	7488	O	LYS	787	30.239	53.678	25.863	1.00	0.00	O
ATOM	7489	N	MET	788	30.722	52.277	24.163	1.00	0.00	N
ATOM	7490	HN	MET	788	30.377	51.831	23.313	1.00	0.00	H
ATOM	7491	CA	MET	788	32.092	52.037	24.555	1.00	0.00	C
ATOM	7492	CB	MET	788	32.816	51.044	23.628	1.00	0.00	C
ATOM	7493	CG	MET	788	32.299	49.609	23.737	1.00	0.00	C
ATOM	7494	SD	MET	788	33.020	48.451	22.534	1.00	0.00	S
ATOM	7495	CE	MET	788	34.696	48.500	23.230	1.00	0.00	C
ATOM	7496	C	MET	788	32.832	53.326	24.467	1.00	0.00	C
ATOM	7497	O	MET	788	33.711	53.616	25.277	1.00	0.00	O
ATOM	7498	N	LEU	789	32.471	54.129	23.454	1.00	0.00	N
ATOM	7499	HN	LEU	789	31.728	53.806	22.835	1.00	0.00	H
ATOM	7500	CA	LEU	789	33.055	55.405	23.182	1.00	0.00	C
ATOM	7501	CB	LEU	789	32.294	56.111	22.047	1.00	0.00	C
ATOM	7502	CG	LEU	789	32.858	57.475	21.617	1.00	0.00	C
ATOM	7503	CD1	LEU	789	34.114	57.314	20.752	1.00	0.00	C
ATOM	7504	CD2	LEU	789	31.781	58.338	20.947	1.00	0.00	C
ATOM	7505	C	LEU	789	32.824	56.210	24.419	1.00	0.00	C
ATOM	7506	O	LEU	789	33.688	56.970	24.847	1.00	0.00	O
ATOM	7507	N	SER	790	31.623	56.060	25.011	1.00	0.00	N
ATOM	7508	HN	SER	790	30.957	55.414	24.587	1.00	0.00	H
ATOM	7509	CA	SER	790	31.223	56.753	26.201	1.00	0.00	C
ATOM	7510	CB	SER	790	29.748	56.501	26.553	1.00	0.00	C
ATOM	7511	OG	SER	790	28.904	57.011	25.532	1.00	0.00	O
ATOM	7512	HG	SER	790	27.992	56.855	25.750	1.00	0.00	H
ATOM	7513	C	SER	790	32.034	56.288	27.376	1.00	0.00	C
ATOM	7514	O	SER	790	32.470	57.101	28.187	1.00	0.00	O
ATOM	7515	N	GLY	791	32.268	54.966	27.504	1.00	0.00	N
ATOM	7516	HN	GLY	791	31.960	54.321	26.776	1.00	0.00	H
ATOM	7517	CA	GLY	791	32.951	54.465	28.664	1.00	0.00	C
ATOM	7518	C	GLY	791	34.322	55.053	28.726	1.00	0.00	C
ATOM	7519	O	GLY	791	34.760	55.503	29.782	1.00	0.00	O
ATOM	7520	N	GLN	792	35.042	55.052	27.591	1.00	0.00	N
ATOM	7521	HN	GLN	792	34.638	54.659	26.741	1.00	0.00	H
ATOM	7522	CA	GLN	792	36.367	55.594	27.557	1.00	0.00	C
ATOM	7523	CB	GLN	792	37.084	55.317	26.226	1.00	0.00	C
ATOM	7524	CG	GLN	792	37.368	53.830	26.008	1.00	0.00	C
ATOM	7525	CD	GLN	792	38.435	53.414	27.011	1.00	0.00	C
ATOM	7526	OE1	GLN	792	38.401	52.309	27.552	1.00	0.00	O
ATOM	7527	NE2	GLN	792	39.414	54.322	27.268	1.00	0.00	N
ATOM	7528	1HE2	GLN	792	40.129	54.043	27.940	1.00	0.00	H
ATOM	7529	2HE2	GLN	792	39.442	55.238	26.820	1.00	0.00	H
ATOM	7530	C	GLN	792	36.281	57.076	27.741	1.00	0.00	C
ATOM	7531	O	GLN	792	37.102	57.658	28.443	1.00	0.00	O
ATOM	7532	N	ALA	793	35.279	57.730	27.117	1.00	0.00	N
ATOM	7533	HN	ALA	793	34.594	57.197	26.581	1.00	0.00	H
ATOM	7534	CA	ALA	793	35.153	59.163	27.189	1.00	0.00	C
ATOM	7535	CB	ALA	793	33.961	59.703	26.379	1.00	0.00	C
ATOM	7536	C	ALA	793	34.929	59.562	28.617	1.00	0.00	C
ATOM	7537	O	ALA	793	35.533	60.520	29.090	1.00	0.00	O
ATOM	7538	N	LEU	794	34.043	58.849	29.342	1.00	0.00	N
ATOM	7539	HN	LEU	794	33.580	58.047	28.914	1.00	0.00	H
ATOM	7540	CA	LEU	794	33.735	59.193	30.704	1.00	0.00	C
ATOM	7541	CB	LEU	794	32.524	58.413	31.258	1.00	0.00	C
ATOM	7542	CG	LEU	794	32.009	58.886	32.639	1.00	0.00	C
ATOM	7543	CD1	LEU	794	32.994	58.589	33.782	1.00	0.00	C
ATOM	7544	CD2	LEU	794	31.578	60.362	32.592	1.00	0.00	C
ATOM	7545	C	LEU	794	34.916	58.915	31.586	1.00	0.00	C

ATOM	7546	O	LEU	794	35.271	59.741	32.423	1.00	0.00	O
ATOM	7547	N	LYS	795	35.568	57.747	31.419	1.00	0.00	N
ATOM	7548	HN	LYS	795	35.292	57.122	30.662	1.00	0.00	H
ATOM	7549	CA	LYS	795	36.645	57.368	32.290	1.00	0.00	C
ATOM	7550	CB	LYS	795	37.157	55.937	32.017	1.00	0.00	C
ATOM	7551	CG	LYS	795	37.723	55.693	30.615	1.00	0.00	C
ATOM	7552	CD	LYS	795	39.156	56.186	30.418	1.00	0.00	C
ATOM	7553	CE	LYS	795	40.207	55.238	31.002	1.00	0.00	C
ATOM	7554	NZ	LYS	795	40.104	55.214	32.479	1.00	0.00	N
ATOM	7555	HZ1	LYS	795	40.804	54.582	32.868	1.00	0.00	H
ATOM	7556	HZ2	LYS	795	39.162	54.980	32.793	1.00	0.00	H
ATOM	7557	HZ3	LYS	795	40.167	56.149	32.882	1.00	0.00	H
ATOM	7558	C	LYS	795	37.761	58.355	32.146	1.00	0.00	C
ATOM	7559	O	LYS	795	38.354	58.769	33.140	1.00	0.00	O
ATOM	7560	N	ASP	796	38.074	58.761	30.901	1.00	0.00	N
ATOM	7561	HN	ASP	796	37.555	58.380	30.109	1.00	0.00	H
ATOM	7562	CA	ASP	796	39.120	59.717	30.658	1.00	0.00	C
ATOM	7563	CB	ASP	796	39.417	59.913	29.162	1.00	0.00	C
ATOM	7564	CG	ASP	796	40.831	60.466	29.034	1.00	0.00	C
ATOM	7565	OD1	ASP	796	41.637	60.252	29.978	1.00	0.00	O
ATOM	7566	OD2	ASP	796	41.125	61.103	27.987	1.00	0.00	O
ATOM	7567	C	ASP	796	38.656	61.011	31.215	1.00	0.00	C
ATOM	7568	O	ASP	796	39.436	61.780	31.768	1.00	0.00	O
ATOM	7569	N	LYS	797	37.345	61.261	31.103	1.00	0.00	N
ATOM	7570	HN	LYS	797	36.743	60.568	30.659	1.00	0.00	H
ATOM	7571	CA	LYS	797	36.770	62.470	31.588	1.00	0.00	C
ATOM	7572	CB	LYS	797	35.239	62.449	31.459	1.00	0.00	C
ATOM	7573	CG	LYS	797	34.563	63.776	31.788	1.00	0.00	C
ATOM	7574	CD	LYS	797	34.836	64.868	30.753	1.00	0.00	C
ATOM	7575	CE	LYS	797	34.443	64.469	29.328	1.00	0.00	C
ATOM	7576	NZ	LYS	797	32.977	64.290	29.235	1.00	0.00	N
ATOM	7577	HZ1	LYS	797	32.715	64.024	28.286	1.00	0.00	H
ATOM	7578	HZ2	LYS	797	32.471	65.116	29.553	1.00	0.00	H
ATOM	7579	HZ3	LYS	797	32.629	63.626	29.927	1.00	0.00	H
ATOM	7580	C	LYS	797	37.106	62.480	33.043	1.00	0.00	C
ATOM	7581	O	LYS	797	37.317	63.545	33.611	1.00	0.00	O
ATOM	7582	N	LYS	798	37.119	61.289	33.684	1.00	0.00	N
ATOM	7583	HN	LYS	798	36.906	60.449	33.146	1.00	0.00	H
ATOM	7584	CA	LYS	798	37.417	61.145	35.083	1.00	0.00	C
ATOM	7585	CB	LYS	798	37.082	59.739	35.602	1.00	0.00	C
ATOM	7586	CG	LYS	798	37.082	59.647	37.126	1.00	0.00	C
ATOM	7587	CD	LYS	798	35.999	60.504	37.785	1.00	0.00	C
ATOM	7588	CE	LYS	798	34.584	60.207	37.283	1.00	0.00	C
ATOM	7589	NZ	LYS	798	33.608	61.081	37.971	1.00	0.00	N
ATOM	7590	HZ1	LYS	798	32.665	60.883	37.636	1.00	0.00	H
ATOM	7591	HZ2	LYS	798	33.847	62.068	37.878	1.00	0.00	H
ATOM	7592	HZ3	LYS	798	33.677	61.006	38.986	1.00	0.00	H
ATOM	7593	C	LYS	798	38.863	61.441	35.410	1.00	0.00	C
ATOM	7594	O	LYS	798	39.140	62.221	36.317	1.00	0.00	O
ATOM	7595	N	GLU	799	39.833	60.844	34.684	1.00	0.00	N
ATOM	7596	HN	GLU	799	39.574	60.251	33.895	1.00	0.00	H
ATOM	7597	CA	GLU	799	41.228	61.028	35.002	1.00	0.00	C
ATOM	7598	CB	GLU	799	42.121	60.233	34.039	1.00	0.00	C
ATOM	7599	CG	GLU	799	41.899	58.722	34.119	1.00	0.00	C
ATOM	7600	CD	GLU	799	42.443	58.102	32.839	1.00	0.00	C
ATOM	7601	OE1	GLU	799	42.786	58.875	31.903	1.00	0.00	O
ATOM	7602	OE2	GLU	799	42.515	56.846	32.778	1.00	0.00	O
ATOM	7603	C	GLU	799	41.553	62.472	34.801	1.00	0.00	C
ATOM	7604	O	GLU	799	42.130	63.125	35.670	1.00	0.00	O
ATOM	7605	N	LEU	800	41.136	62.998	33.636	1.00	0.00	N
ATOM	7606	HN	LEU	800	40.646	62.383	32.986	1.00	0.00	H
ATOM	7607	CA	LEU	800	41.332	64.358	33.245	1.00	0.00	C
ATOM	7608	CB	LEU	800	40.843	64.665	31.810	1.00	0.00	C
ATOM	7609	CG	LEU	800	39.327	64.510	31.547	1.00	0.00	C
ATOM	7610	CD1	LEU	800	38.495	65.641	32.176	1.00	0.00	C
ATOM	7611	CD2	LEU	800	39.046	64.340	30.046	1.00	0.00	C
ATOM	7612	C	LEU	800	40.556	65.155	34.216	1.00	0.00	C
ATOM	7613	O	LEU	800	40.926	66.282	34.499	1.00	0.00	O
ATOM	7614	N	GLU	801	39.443	64.598	34.726	1.00	0.00	N
ATOM	7615	HN	GLU	801	39.170	63.667	34.410	1.00	0.00	H
ATOM	7616	CA	GLU	801	38.627	65.263	35.696	1.00	0.00	C
ATOM	7617	CB	GLU	801	37.419	64.454	36.192	1.00	0.00	C
ATOM	7618	CG	GLU	801	36.776	65.119	37.411	1.00	0.00	C
ATOM	7619	CD	GLU	801	35.615	64.271	37.905	1.00	0.00	C

ATOM	7620	OE1	GLU	801	34.602	64.163	37.166	1.00	0.00	O
ATOM	7621	OE2	GLU	801	35.725	63.725	39.036	1.00	0.00	O
ATOM	7622	C	GLU	801	39.451	65.453	36.905	1.00	0.00	C
ATOM	7623	O	GLU	801	39.305	66.454	37.593	1.00	0.00	O
ATOM	7624	N	GLY	802	40.320	64.484	37.230	1.00	0.00	N
ATOM	7625	HN	GLY	802	40.434	63.653	36.649	1.00	0.00	H
ATOM	7626	CA	GLY	802	41.076	64.667	38.421	1.00	0.00	C
ATOM	7627	C	GLY	802	41.899	65.901	38.261	1.00	0.00	C
ATOM	7628	O	GLY	802	41.899	66.774	39.129	1.00	0.00	O
ATOM	7629	N	SER	803	42.605	66.005	37.121	1.00	0.00	N
ATOM	7630	HN	SER	803	42.523	65.268	36.421	1.00	0.00	H
ATOM	7631	CA	SER	803	43.468	67.118	36.858	1.00	0.00	C
ATOM	7632	CB	SER	803	44.348	66.904	35.620	1.00	0.00	C
ATOM	7633	OG	SER	803	45.174	68.041	35.427	1.00	0.00	O
ATOM	7634	HG	SER	803	45.719	67.908	34.660	1.00	0.00	H
ATOM	7635	C	SER	803	42.693	68.394	36.637	1.00	0.00	C
ATOM	7636	O	SER	803	42.873	69.381	37.336	1.00	0.00	O
ATOM	7637	N	GLY	804	41.776	68.415	35.664	1.00	0.00	N
ATOM	7638	HN	GLY	804	41.595	67.548	35.158	1.00	0.00	H
ATOM	7639	CA	GLY	804	41.032	69.579	35.288	1.00	0.00	C
ATOM	7640	C	GLY	804	40.210	70.036	36.428	1.00	0.00	C
ATOM	7641	O	GLY	804	40.040	71.238	36.608	1.00	0.00	O
ATOM	7642	N	LYS	805	39.654	69.099	37.213	1.00	0.00	N
ATOM	7643	HN	LYS	805	39.815	68.106	37.046	1.00	0.00	H
ATOM	7644	CA	LYS	805	38.831	69.544	38.288	1.00	0.00	C
ATOM	7645	CB	LYS	805	38.245	68.414	39.152	1.00	0.00	C
ATOM	7646	CG	LYS	805	37.228	68.852	40.208	1.00	0.00	C
ATOM	7647	CD	LYS	805	36.473	67.668	40.819	1.00	0.00	C
ATOM	7648	CE	LYS	805	35.465	68.057	41.902	1.00	0.00	C
ATOM	7649	NZ	LYS	805	34.267	68.673	41.291	1.00	0.00	N
ATOM	7650	HZ1	LYS	805	33.595	68.932	42.013	1.00	0.00	H
ATOM	7651	HZ2	LYS	805	33.850	68.071	40.581	1.00	0.00	H
ATOM	7652	HZ3	LYS	805	34.508	69.464	40.694	1.00	0.00	H
ATOM	7653	C	LYS	805	39.721	70.346	39.175	1.00	0.00	C
ATOM	7654	O	LYS	805	39.316	71.396	39.662	1.00	0.00	O
ATOM	7655	N	ILE	806	40.958	69.856	39.404	1.00	0.00	N
ATOM	7656	HN	ILE	806	41.214	68.964	38.981	1.00	0.00	H
ATOM	7657	CA	ILE	806	41.926	70.532	40.213	1.00	0.00	C
ATOM	7658	CB	ILE	806	42.962	69.614	40.838	1.00	0.00	C
ATOM	7659	CG1	ILE	806	43.721	68.741	39.832	1.00	0.00	C
ATOM	7660	CG2	ILE	806	42.226	68.800	41.913	1.00	0.00	C
ATOM	7661	CD1	ILE	806	44.728	67.783	40.472	1.00	0.00	C
ATOM	7662	C	ILE	806	42.443	71.798	39.591	1.00	0.00	C
ATOM	7663	O	ILE	806	42.698	72.781	40.283	1.00	0.00	O
ATOM	7664	N	ALA	807	42.628	71.823	38.266	1.00	0.00	N
ATOM	7665	HN	ALA	807	42.470	70.977	37.719	1.00	0.00	H
ATOM	7666	CA	ALA	807	43.047	73.027	37.604	1.00	0.00	C
ATOM	7667	CB	ALA	807	43.223	72.830	36.095	1.00	0.00	C
ATOM	7668	C	ALA	807	41.964	74.045	37.800	1.00	0.00	C
ATOM	7669	O	ALA	807	42.234	75.237	37.935	1.00	0.00	O
ATOM	7670	N	THR	808	40.696	73.595	37.760	1.00	0.00	N
ATOM	7671	HN	THR	808	40.540	72.605	37.569	1.00	0.00	H
ATOM	7672	CA	THR	808	39.553	74.435	37.972	1.00	0.00	C
ATOM	7673	CB	THR	808	38.275	73.736	37.626	1.00	0.00	C
ATOM	7674	OG1	THR	808	38.318	73.301	36.275	1.00	0.00	O
ATOM	7675	HG1	THR	808	39.039	72.693	36.162	1.00	0.00	H
ATOM	7676	CG2	THR	808	37.110	74.717	37.809	1.00	0.00	C
ATOM	7677	C	THR	808	39.548	74.799	39.404	1.00	0.00	C
ATOM	7678	O	THR	808	39.124	75.888	39.780	1.00	0.00	O
ATOM	7679	N	GLU	809	40.032	73.874	40.246	1.00	0.00	N
ATOM	7680	HN	GLU	809	40.381	72.985	39.887	1.00	0.00	H
ATOM	7681	CA	GLU	809	40.056	74.139	41.638	1.00	0.00	C
ATOM	7682	CB	GLU	809	40.743	73.017	42.435	1.00	0.00	C
ATOM	7683	CG	GLU	809	40.788	73.261	43.943	1.00	0.00	C
ATOM	7684	CD	GLU	809	41.496	72.075	44.582	1.00	0.00	C
ATOM	7685	OE1	GLU	809	42.645	71.772	44.159	1.00	0.00	O
ATOM	7686	OE2	GLU	809	40.898	71.453	45.500	1.00	0.00	O
ATOM	7687	C	GLU	809	40.858	75.383	41.799	1.00	0.00	C
ATOM	7688	O	GLU	809	40.404	76.316	42.449	1.00	0.00	O
ATOM	7689	N	ALA	810	42.041	75.446	41.165	1.00	0.00	N
ATOM	7690	HN	ALA	810	42.351	74.659	40.594	1.00	0.00	H
ATOM	7691	CA	ALA	810	42.871	76.607	41.283	1.00	0.00	C
ATOM	7692	CB	ALA	810	44.260	76.396	40.661	1.00	0.00	C
ATOM	7693	C	ALA	810	42.288	77.813	40.602	1.00	0.00	C

ATOM	7694	O	ALA	810	42.070	78.840	41.234	1.00	0.00	O
ATOM	7695	N	ILE	811	41.933	77.700	39.309	1.00	0.00	N
ATOM	7696	HN	ILE	811	41.945	76.785	38.859	1.00	0.00	H
ATOM	7697	CA	ILE	811	41.537	78.861	38.556	1.00	0.00	C
ATOM	7698	CB	ILE	811	40.964	78.549	37.208	1.00	0.00	C
ATOM	7699	CG1	ILE	811	41.759	77.492	36.452	1.00	0.00	C
ATOM	7700	CG2	ILE	811	40.935	79.884	36.452	1.00	0.00	C
ATOM	7701	CD1	ILE	811	43.173	77.939	36.161	1.00	0.00	C
ATOM	7702	C	ILE	811	40.312	79.401	39.213	1.00	0.00	C
ATOM	7703	O	ILE	811	40.172	80.604	39.420	1.00	0.00	O
ATOM	7704	N	GLU	812	39.382	78.486	39.544	1.00	0.00	N
ATOM	7705	HN	GLU	812	39.578	77.499	39.378	1.00	0.00	H
ATOM	7706	CA	GLU	812	38.128	78.856	40.121	1.00	0.00	C
ATOM	7707	CB	GLU	812	37.187	77.695	40.473	1.00	0.00	C
ATOM	7708	CG	GLU	812	36.380	77.147	39.304	1.00	0.00	C
ATOM	7709	CD	GLU	812	35.382	76.150	39.879	1.00	0.00	C
ATOM	7710	OE1	GLU	812	35.424	75.920	41.118	1.00	0.00	O
ATOM	7711	OE2	GLU	812	34.562	75.610	39.090	1.00	0.00	O
ATOM	7712	C	GLU	812	38.420	79.494	41.402	1.00	0.00	C
ATOM	7713	O	GLU	812	37.728	80.418	41.819	1.00	0.00	O
ATOM	7714	N	ASN	813	39.448	78.974	42.074	1.00	0.00	N
ATOM	7715	HN	ASN	813	39.994	78.213	41.671	1.00	0.00	H
ATOM	7716	CA	ASN	813	39.774	79.487	43.350	1.00	0.00	C
ATOM	7717	CB	ASN	813	40.241	78.415	44.356	1.00	0.00	C
ATOM	7718	CG	ASN	813	39.094	77.495	44.753	1.00	0.00	C
ATOM	7719	OD1	ASN	813	37.960	77.925	44.947	1.00	0.00	O
ATOM	7720	ND2	ASN	813	39.406	76.182	44.907	1.00	0.00	N
ATOM	7721	1HD2	ASN	813	40.348	75.825	44.746	1.00	0.00	H
ATOM	7722	2HD2	ASN	813	38.638	75.566	45.173	1.00	0.00	H
ATOM	7723	C	ASN	813	40.942	80.391	43.192	1.00	0.00	C
ATOM	7724	O	ASN	813	42.002	80.075	43.715	1.00	0.00	O
ATOM	7725	N	PHE	814	40.744	81.623	42.655	1.00	0.00	N
ATOM	7726	HN	PHE	814	39.792	81.855	42.373	1.00	0.00	H
ATOM	7727	CA	PHE	814	41.757	82.642	42.444	1.00	0.00	C
ATOM	7728	CB	PHE	814	41.244	83.910	41.728	1.00	0.00	C
ATOM	7729	CG	PHE	814	40.226	84.609	42.566	1.00	0.00	C
ATOM	7730	CD1	PHE	814	40.606	85.428	43.606	1.00	0.00	C
ATOM	7731	CD2	PHE	814	38.885	84.469	42.292	1.00	0.00	C
ATOM	7732	CE1	PHE	814	39.668	86.077	44.373	1.00	0.00	C
ATOM	7733	CE2	PHE	814	37.941	85.116	43.055	1.00	0.00	C
ATOM	7734	CZ	PHE	814	38.330	85.920	44.099	1.00	0.00	C
ATOM	7735	C	PHE	814	42.274	83.018	43.789	1.00	0.00	C
ATOM	7736	O	PHE	814	43.278	83.707	43.954	1.00	0.00	O
ATOM	7737	N	ARG	815	41.543	82.538	44.792	1.00	0.00	N
ATOM	7738	HN	ARG	815	40.710	82.029	44.496	1.00	0.00	H
ATOM	7739	CA	ARG	815	41.711	82.606	46.184	1.00	0.00	C
ATOM	7740	CB	ARG	815	40.648	81.803	46.936	1.00	0.00	C
ATOM	7741	CG	ARG	815	39.269	82.436	46.810	1.00	0.00	C
ATOM	7742	CD	ARG	815	38.143	81.514	47.247	1.00	0.00	C
ATOM	7743	NE	ARG	815	37.872	80.554	46.144	1.00	0.00	N
ATOM	7744	HE	ARG	815	38.238	79.603	46.179	1.00	0.00	H
ATOM	7745	CZ	ARG	815	37.123	80.974	45.085	1.00	0.00	C
ATOM	7746	NH1	ARG	815	36.850	82.298	44.930	1.00	0.00	N
ATOM	7747	1HH1	ARG	815	37.234	82.968	45.596	1.00	0.00	H
ATOM	7748	2HH1	ARG	815	36.290	82.612	44.138	1.00	0.00	H
ATOM	7749	NH2	ARG	815	36.611	80.080	44.196	1.00	0.00	N
ATOM	7750	1HH2	ARG	815	36.816	79.088	44.312	1.00	0.00	H
ATOM	7751	2HH2	ARG	815	36.051	80.394	43.404	1.00	0.00	H
ATOM	7752	C	ARG	815	43.055	82.042	46.556	1.00	0.00	C
ATOM	7753	O	ARG	815	43.314	81.825	47.735	1.00	0.00	O
ATOM	7754	N	THR	816	43.798	81.499	45.577	1.00	0.00	N
ATOM	7755	HN	THR	816	43.358	81.377	44.665	1.00	0.00	H
ATOM	7756	CA	THR	816	45.165	81.076	45.714	1.00	0.00	C
ATOM	7757	CB	THR	816	45.549	80.093	44.650	1.00	0.00	C
ATOM	7758	OG1	THR	816	45.689	80.728	43.388	1.00	0.00	O
ATOM	7759	HG1	THR	816	45.932	80.105	42.714	1.00	0.00	H
ATOM	7760	CG2	THR	816	44.408	79.073	44.558	1.00	0.00	C
ATOM	7761	C	THR	816	46.132	82.221	45.598	1.00	0.00	C
ATOM	7762	O	THR	816	46.999	82.395	46.448	1.00	0.00	O
ATOM	7763	N	VAL	817	45.944	83.096	44.576	1.00	0.00	N
ATOM	7764	HN	VAL	817	45.114	82.954	44.000	1.00	0.00	H
ATOM	7765	CA	VAL	817	46.794	84.204	44.220	1.00	0.00	C
ATOM	7766	CB	VAL	817	46.301	84.986	43.035	1.00	0.00	C
ATOM	7767	CG1	VAL	817	45.030	85.755	43.437	1.00	0.00	C

ATOM	7768	CG2	VAL	817	47.445	85.884	42.533	1.00	0.00	C
ATOM	7769	C	VAL	817	46.749	85.080	45.407	1.00	0.00	C
ATOM	7770	O	VAL	817	47.612	85.929	45.627	1.00	0.00	O
ATOM	7771	N	VAL	818	45.679	84.896	46.191	1.00	0.00	N
ATOM	7772	HN	VAL	818	44.962	84.221	45.927	1.00	0.00	H
ATOM	7773	CA	VAL	818	45.547	85.636	47.380	1.00	0.00	C
ATOM	7774	CB	VAL	818	44.330	85.303	48.204	1.00	0.00	C
ATOM	7775	CG1	VAL	818	44.507	83.962	48.924	1.00	0.00	C
ATOM	7776	CG2	VAL	818	44.087	86.474	49.166	1.00	0.00	C
ATOM	7777	C	VAL	818	46.786	85.419	48.195	1.00	0.00	C
ATOM	7778	O	VAL	818	47.307	86.385	48.741	1.00	0.00	O
ATOM	7779	N	SER	819	47.245	84.157	48.362	1.00	0.00	N
ATOM	7780	HN	SER	819	46.696	83.391	47.972	1.00	0.00	H
ATOM	7781	CA	SER	819	48.462	83.831	49.057	1.00	0.00	C
ATOM	7782	CB	SER	819	48.398	82.448	49.722	1.00	0.00	C
ATOM	7783	OG	SER	819	47.295	82.390	50.612	1.00	0.00	O
ATOM	7784	HG	SER	819	47.255	81.535	51.023	1.00	0.00	H
ATOM	7785	C	SER	819	49.637	83.791	48.114	1.00	0.00	C
ATOM	7786	O	SER	819	50.750	84.171	48.471	1.00	0.00	O
ATOM	7787	N	LEU	820	49.422	83.254	46.893	1.00	0.00	N
ATOM	7788	HN	LEU	820	48.479	82.927	46.684	1.00	0.00	H
ATOM	7789	CA	LEU	820	50.420	83.105	45.859	1.00	0.00	C
ATOM	7790	CB	LEU	820	51.207	84.412	45.641	1.00	0.00	C
ATOM	7791	CG	LEU	820	52.281	84.356	44.536	1.00	0.00	C
ATOM	7792	CD1	LEU	820	51.669	84.510	43.135	1.00	0.00	C
ATOM	7793	CD2	LEU	820	53.423	85.343	44.815	1.00	0.00	C
ATOM	7794	C	LEU	820	51.419	82.077	46.305	1.00	0.00	C
ATOM	7795	O	LEU	820	52.364	81.734	45.594	1.00	0.00	O
ATOM	7796	N	THR	821	51.169	81.509	47.487	1.00	0.00	N
ATOM	7797	HN	THR	821	50.286	81.751	47.936	1.00	0.00	H
ATOM	7798	CA	THR	821	52.015	80.599	48.182	1.00	0.00	C
ATOM	7799	CB	THR	821	51.635	80.537	49.639	1.00	0.00	C
ATOM	7800	OG1	THR	821	52.614	79.842	50.384	1.00	0.00	O
ATOM	7801	HG1	THR	821	52.374	79.803	51.302	1.00	0.00	H
ATOM	7802	CG2	THR	821	50.255	79.901	49.813	1.00	0.00	C
ATOM	7803	C	THR	821	52.121	79.221	47.525	1.00	0.00	C
ATOM	7804	O	THR	821	52.822	78.391	48.097	1.00	0.00	O
ATOM	7805	N	GLN	822	51.234	78.834	46.556	1.00	0.00	N
ATOM	7806	HN	GLN	822	50.458	79.471	46.377	1.00	0.00	H
ATOM	7807	CA	GLN	822	51.267	77.612	45.745	1.00	0.00	C
ATOM	7808	CB	GLN	822	49.888	76.931	45.696	1.00	0.00	C
ATOM	7809	CG	GLN	822	49.395	76.439	47.060	1.00	0.00	C
ATOM	7810	CD	GLN	822	48.894	77.639	47.854	1.00	0.00	C
ATOM	7811	OE1	GLN	822	48.803	77.591	49.080	1.00	0.00	O
ATOM	7812	NE2	GLN	822	48.552	78.744	47.140	1.00	0.00	N
ATOM	7813	1HE2	GLN	822	48.217	79.547	47.672	1.00	0.00	H
ATOM	7814	2HE2	GLN	822	48.627	78.784	46.124	1.00	0.00	H
ATOM	7815	C	GLN	822	51.755	77.663	44.299	1.00	0.00	C
ATOM	7816	O	GLN	822	52.292	76.682	43.783	1.00	0.00	O
ATOM	7817	N	GLU	823	51.484	78.781	43.589	1.00	0.00	N
ATOM	7818	HN	GLU	823	51.118	79.564	44.130	1.00	0.00	H
ATOM	7819	CA	GLU	823	51.640	79.026	42.165	1.00	0.00	C
ATOM	7820	CB	GLU	823	52.566	80.213	41.860	1.00	0.00	C
ATOM	7821	CG	GLU	823	52.042	81.523	42.460	1.00	0.00	C
ATOM	7822	CD	GLU	823	50.566	81.690	42.099	1.00	0.00	C
ATOM	7823	OE1	GLU	823	50.110	81.038	41.122	1.00	0.00	O
ATOM	7824	OE2	GLU	823	49.869	82.470	42.802	1.00	0.00	O
ATOM	7825	C	GLU	823	52.044	77.838	41.329	1.00	0.00	C
ATOM	7826	O	GLU	823	51.270	76.913	41.061	1.00	0.00	O
ATOM	7827	N	GLN	824	53.296	77.865	40.848	1.00	0.00	N
ATOM	7828	HN	GLN	824	53.918	78.634	41.099	1.00	0.00	H
ATOM	7829	CA	GLN	824	53.767	76.826	39.986	1.00	0.00	C
ATOM	7830	CB	GLN	824	55.255	76.966	39.628	1.00	0.00	C
ATOM	7831	CG	GLN	824	55.557	78.237	38.844	1.00	0.00	C
ATOM	7832	CD	GLN	824	54.641	78.228	37.631	1.00	0.00	C
ATOM	7833	OE1	GLN	824	54.273	79.280	37.113	1.00	0.00	O
ATOM	7834	NE2	GLN	824	54.246	77.009	37.171	1.00	0.00	N
ATOM	7835	1HE2	GLN	824	53.631	77.003	36.357	1.00	0.00	H
ATOM	7836	2HE2	GLN	824	54.551	76.136	37.601	1.00	0.00	H
ATOM	7837	C	GLN	824	53.620	75.534	40.699	1.00	0.00	C
ATOM	7838	O	GLN	824	53.232	74.545	40.077	1.00	0.00	O
ATOM	7839	N	LYS	825	53.865	75.546	42.028	1.00	0.00	N
ATOM	7840	HN	LYS	825	54.097	76.432	42.477	1.00	0.00	H
ATOM	7841	CA	LYS	825	53.811	74.356	42.831	1.00	0.00	C

ATOM	7842	CB	LYS	825	53.982	74.627	44.345	1.00	0.00	C
ATOM	7843	CG	LYS	825	53.821	73.427	45.287	1.00	0.00	C
ATOM	7844	CD	LYS	825	52.394	72.875	45.354	1.00	0.00	C
ATOM	7845	CE	LYS	825	52.184	71.808	46.430	1.00	0.00	C
ATOM	7846	NZ	LYS	825	51.943	72.452	47.739	1.00	0.00	N
ATOM	7847	HZ1	LYS	825	51.803	71.741	48.456	1.00	0.00	H
ATOM	7848	HZ2	LYS	825	51.169	73.116	47.702	1.00	0.00	H
ATOM	7849	HZ3	LYS	825	52.687	73.104	47.987	1.00	0.00	H
ATOM	7850	C	LYS	825	52.481	73.747	42.548	1.00	0.00	C
ATOM	7851	O	LYS	825	52.330	72.528	42.497	1.00	0.00	O
ATOM	7852	N	PHE	826	51.478	74.610	42.335	1.00	0.00	N
ATOM	7853	HN	PHE	826	51.665	75.612	42.362	1.00	0.00	H
ATOM	7854	CA	PHE	826	50.151	74.149	42.071	1.00	0.00	C
ATOM	7855	CB	PHE	826	49.206	75.358	42.169	1.00	0.00	C
ATOM	7856	CG	PHE	826	47.900	74.921	42.723	1.00	0.00	C
ATOM	7857	CD1	PHE	826	47.860	74.444	44.013	1.00	0.00	C
ATOM	7858	CD2	PHE	826	46.744	74.962	41.984	1.00	0.00	C
ATOM	7859	CE1	PHE	826	46.683	74.026	44.580	1.00	0.00	C
ATOM	7860	CE2	PHE	826	45.562	74.548	42.549	1.00	0.00	C
ATOM	7861	CZ	PHE	826	45.526	74.083	43.842	1.00	0.00	C
ATOM	7862	C	PHE	826	49.976	73.459	40.735	1.00	0.00	C
ATOM	7863	O	PHE	826	49.802	72.241	40.665	1.00	0.00	O
ATOM	7864	N	GLU	827	50.160	74.204	39.627	1.00	0.00	N
ATOM	7865	HN	GLU	827	50.504	75.159	39.731	1.00	0.00	H
ATOM	7866	CA	GLU	827	49.890	73.706	38.299	1.00	0.00	C
ATOM	7867	CB	GLU	827	50.174	74.777	37.235	1.00	0.00	C
ATOM	7868	CG	GLU	827	49.341	74.607	35.971	1.00	0.00	C
ATOM	7869	CD	GLU	827	47.902	74.968	36.322	1.00	0.00	C
ATOM	7870	OE1	GLU	827	47.685	76.041	36.947	1.00	0.00	O
ATOM	7871	OE2	GLU	827	46.996	74.168	35.968	1.00	0.00	O
ATOM	7872	C	GLU	827	50.819	72.560	38.116	1.00	0.00	C
ATOM	7873	O	GLU	827	50.581	71.654	37.316	1.00	0.00	O
ATOM	7874	N	HIS	828	51.928	72.618	38.873	1.00	0.00	N
ATOM	7875	HN	HIS	828	52.042	73.413	39.502	1.00	0.00	H
ATOM	7876	CA	HIS	828	52.956	71.626	38.844	1.00	0.00	C
ATOM	7877	ND1	HIS	828	56.082	70.734	38.770	1.00	0.00	N
ATOM	7878	HD1	HIS	828	56.117	71.254	37.893	1.00	0.00	H
ATOM	7879	CG	HIS	828	55.194	70.925	39.805	1.00	0.00	C
ATOM	7880	CB	HIS	828	54.105	71.956	39.810	1.00	0.00	C
ATOM	7881	NE2	HIS	828	56.602	69.247	40.342	1.00	0.00	N
ATOM	7882	HE2	HIS	828	57.062	68.490	40.848	1.00	0.00	H
ATOM	7883	CD2	HIS	828	55.525	70.009	40.756	1.00	0.00	C
ATOM	7884	CE1	HIS	828	56.902	69.718	39.144	1.00	0.00	C
ATOM	7885	C	HIS	828	52.405	70.298	39.240	1.00	0.00	C
ATOM	7886	O	HIS	828	52.656	69.295	38.571	1.00	0.00	O
ATOM	7887	N	MET	829	51.599	70.267	40.315	1.00	0.00	N
ATOM	7888	HN	MET	829	51.366	71.134	40.799	1.00	0.00	H
ATOM	7889	CA	MET	829	51.065	69.023	40.786	1.00	0.00	C
ATOM	7890	CB	MET	829	50.103	69.225	41.966	1.00	0.00	C
ATOM	7891	CG	MET	829	50.792	69.784	43.212	1.00	0.00	C
ATOM	7892	SD	MET	829	49.690	70.072	44.629	1.00	0.00	S
ATOM	7893	CE	MET	829	49.157	71.725	44.104	1.00	0.00	C
ATOM	7894	C	MET	829	50.280	68.463	39.639	1.00	0.00	C
ATOM	7895	O	MET	829	50.259	67.258	39.385	1.00	0.00	O
ATOM	7896	N	TYR	830	49.629	69.367	38.893	1.00	0.00	N
ATOM	7897	HN	TYR	830	49.716	70.355	39.133	1.00	0.00	H
ATOM	7898	CA	TYR	830	48.815	68.998	37.770	1.00	0.00	C
ATOM	7899	CB	TYR	830	48.008	70.162	37.162	1.00	0.00	C
ATOM	7900	CG	TYR	830	47.197	70.706	38.279	1.00	0.00	C
ATOM	7901	CD1	TYR	830	46.886	69.887	39.333	1.00	0.00	C
ATOM	7902	CD2	TYR	830	46.711	71.994	38.266	1.00	0.00	C
ATOM	7903	CE1	TYR	830	46.128	70.354	40.374	1.00	0.00	C
ATOM	7904	CE2	TYR	830	45.946	72.465	39.311	1.00	0.00	C
ATOM	7905	CZ	TYR	830	45.664	71.640	40.373	1.00	0.00	C
ATOM	7906	OH	TYR	830	44.885	72.086	41.459	1.00	0.00	O
ATOM	7907	HH	TYR	830	44.563	72.980	41.458	1.00	0.00	H
ATOM	7908	C	TYR	830	49.656	68.430	36.682	1.00	0.00	C
ATOM	7909	O	TYR	830	49.193	67.587	35.914	1.00	0.00	O
ATOM	7910	N	ALA	831	50.904	68.910	36.551	1.00	0.00	N
ATOM	7911	HN	ALA	831	51.268	69.603	37.205	1.00	0.00	H
ATOM	7912	CA	ALA	831	51.713	68.425	35.471	1.00	0.00	C
ATOM	7913	CB	ALA	831	53.135	69.009	35.485	1.00	0.00	C
ATOM	7914	C	ALA	831	51.835	66.944	35.621	1.00	0.00	C
ATOM	7915	O	ALA	831	51.786	66.204	34.638	1.00	0.00	O

ATOM	7916	N	GLN	832	51.993	66.474	36.868	1.00	0.00	N
ATOM	7917	HN	GLN	832	51.989	67.114	37.663	1.00	0.00	H
ATOM	7918	CA	GLN	832	52.167	65.066	37.075	1.00	0.00	C
ATOM	7919	CB	GLN	832	52.478	64.727	38.540	1.00	0.00	C
ATOM	7920	CG	GLN	832	53.704	65.464	39.081	1.00	0.00	C
ATOM	7921	CD	GLN	832	54.908	65.094	38.228	1.00	0.00	C
ATOM	7922	OE1	GLN	832	54.920	65.319	37.018	1.00	0.00	O
ATOM	7923	NE2	GLN	832	55.952	64.510	38.874	1.00	0.00	N
ATOM	7924	1HE2	GLN	832	56.759	64.262	38.302	1.00	0.00	H
ATOM	7925	2HE2	GLN	832	55.942	64.324	39.877	1.00	0.00	H
ATOM	7926	C	GLN	832	50.921	64.322	36.714	1.00	0.00	C
ATOM	7927	O	GLN	832	50.962	63.321	35.997	1.00	0.00	O
ATOM	7928	N	SER	833	49.768	64.833	37.174	1.00	0.00	N
ATOM	7929	HN	SER	833	49.774	65.726	37.666	1.00	0.00	H
ATOM	7930	CA	SER	833	48.530	64.141	36.983	1.00	0.00	C
ATOM	7931	CB	SER	833	47.326	64.935	37.516	1.00	0.00	C
ATOM	7932	OG	SER	833	47.237	66.187	36.853	1.00	0.00	O
ATOM	7933	HG	SER	833	46.493	66.678	37.182	1.00	0.00	H
ATOM	7934	C	SER	833	48.336	63.914	35.526	1.00	0.00	C
ATOM	7935	O	SER	833	48.121	62.784	35.108	1.00	0.00	O
ATOM	7936	N	LEU	834	48.514	64.957	34.702	1.00	0.00	N
ATOM	7937	HN	LEU	834	48.847	65.846	35.076	1.00	0.00	H
ATOM	7938	CA	LEU	834	48.241	64.835	33.299	1.00	0.00	C
ATOM	7939	CB	LEU	834	48.577	66.108	32.507	1.00	0.00	C
ATOM	7940	CG	LEU	834	47.736	67.339	32.893	1.00	0.00	C
ATOM	7941	CD1	LEU	834	48.067	68.533	31.985	1.00	0.00	C
ATOM	7942	CD2	LEU	834	46.234	67.017	32.936	1.00	0.00	C
ATOM	7943	C	LEU	834	49.086	63.753	32.735	1.00	0.00	C
ATOM	7944	O	LEU	834	48.617	62.957	31.922	1.00	0.00	O
ATOM	7945	N	GLN	835	50.328	63.655	33.232	1.00	0.00	N
ATOM	7946	HN	GLN	835	50.586	64.239	34.028	1.00	0.00	H
ATOM	7947	CA	GLN	835	51.305	62.762	32.688	1.00	0.00	C
ATOM	7948	CB	GLN	835	52.513	62.704	33.630	1.00	0.00	C
ATOM	7949	CG	GLN	835	53.631	61.764	33.205	1.00	0.00	C
ATOM	7950	CD	GLN	835	54.694	61.889	34.287	1.00	0.00	C
ATOM	7951	OE1	GLN	835	55.316	62.939	34.436	1.00	0.00	O
ATOM	7952	NE2	GLN	835	54.897	60.807	35.083	1.00	0.00	N
ATOM	7953	1HE2	GLN	835	54.381	59.936	34.959	1.00	0.00	H
ATOM	7954	2HE2	GLN	835	55.609	60.891	35.808	1.00	0.00	H
ATOM	7955	C	GLN	835	50.728	61.382	32.591	1.00	0.00	C
ATOM	7956	O	GLN	835	50.801	60.749	31.536	1.00	0.00	O
ATOM	7957	N	VAL	836	50.096	60.888	33.669	1.00	0.00	N
ATOM	7958	HN	VAL	836	49.992	61.444	34.518	1.00	0.00	H
ATOM	7959	CA	VAL	836	49.571	59.554	33.591	1.00	0.00	C
ATOM	7960	CB	VAL	836	49.146	59.011	34.925	1.00	0.00	C
ATOM	7961	CG1	VAL	836	48.559	57.607	34.710	1.00	0.00	C
ATOM	7962	CG2	VAL	836	50.354	59.047	35.877	1.00	0.00	C
ATOM	7963	C	VAL	836	48.429	59.455	32.609	1.00	0.00	C
ATOM	7964	O	VAL	836	48.456	58.589	31.735	1.00	0.00	O
ATOM	7965	N	PRO	837	47.429	60.297	32.653	1.00	0.00	N
ATOM	7966	CA	PRO	837	46.403	60.116	31.669	1.00	0.00	C
ATOM	7967	CD	PRO	837	46.811	60.629	33.926	1.00	0.00	C
ATOM	7968	CB	PRO	837	45.232	60.983	32.118	1.00	0.00	C
ATOM	7969	CG	PRO	837	45.319	60.880	33.648	1.00	0.00	C
ATOM	7970	C	PRO	837	46.882	60.333	30.277	1.00	0.00	C
ATOM	7971	O	PRO	837	46.149	60.006	29.345	1.00	0.00	O
ATOM	7972	N	TYR	838	48.071	60.928	30.104	1.00	0.00	N
ATOM	7973	HN	TYR	838	48.615	61.228	30.913	1.00	0.00	H
ATOM	7974	CA	TYR	838	48.575	61.141	28.781	1.00	0.00	C
ATOM	7975	CB	TYR	838	49.807	62.064	28.811	1.00	0.00	C
ATOM	7976	CG	TYR	838	50.278	62.325	27.425	1.00	0.00	C
ATOM	7977	CD1	TYR	838	49.653	63.263	26.637	1.00	0.00	C
ATOM	7978	CD2	TYR	838	51.340	61.621	26.911	1.00	0.00	C
ATOM	7979	CE1	TYR	838	50.091	63.504	25.356	1.00	0.00	C
ATOM	7980	CE2	TYR	838	51.783	61.857	25.634	1.00	0.00	C
ATOM	7981	CZ	TYR	838	51.160	62.799	24.857	1.00	0.00	C
ATOM	7982	OH	TYR	838	51.622	63.036	23.548	1.00	0.00	O
ATOM	7983	HH	TYR	838	52.361	62.549	23.203	1.00	0.00	H
ATOM	7984	C	TYR	838	48.918	59.817	28.165	1.00	0.00	C
ATOM	7985	O	TYR	838	48.524	59.522	27.036	1.00	0.00	O
ATOM	7986	N	ARG	839	49.629	58.958	28.921	1.00	0.00	N
ATOM	7987	HN	ARG	839	49.875	59.212	29.878	1.00	0.00	H
ATOM	7988	CA	ARG	839	50.044	57.687	28.392	1.00	0.00	C
ATOM	7989	CB	ARG	839	50.891	56.903	29.410	1.00	0.00	C

ATOM	7990	CG	ARG	839	50.165	56.631	30.729	1.00	0.00	C
ATOM	7991	CD	ARG	839	51.114	56.345	31.893	1.00	0.00	C
ATOM	7992	NE	ARG	839	51.611	57.663	32.380	1.00	0.00	N
ATOM	7993	HE	ARG	839	51.098	58.514	32.150	1.00	0.00	H
ATOM	7994	CZ	ARG	839	52.748	57.741	33.132	1.00	0.00	C
ATOM	7995	NH1	ARG	839	53.447	56.610	33.440	1.00	0.00	N
ATOM	7996	1HH1	ARG	839	54.296	56.668	34.002	1.00	0.00	H
ATOM	7997	2HH1	ARG	839	53.117	55.702	33.112	1.00	0.00	H
ATOM	7998	NH2	ARG	839	53.189	58.955	33.570	1.00	0.00	N
ATOM	7999	1HH2	ARG	839	54.038	59.013	34.132	1.00	0.00	H
ATOM	8000	2HH2	ARG	839	52.667	59.800	33.340	1.00	0.00	H
ATOM	8001	C	ARG	839	48.818	56.895	28.064	1.00	0.00	C
ATOM	8002	O	ARG	839	48.701	56.300	26.992	1.00	0.00	O
ATOM	8003	N	ASN	840	47.838	56.931	28.977	1.00	0.00	N
ATOM	8004	HN	ASN	840	47.969	57.501	29.813	1.00	0.00	H
ATOM	8005	CA	ASN	840	46.614	56.202	28.827	1.00	0.00	C
ATOM	8006	CB	ASN	840	45.646	56.469	29.994	1.00	0.00	C
ATOM	8007	CG	ASN	840	44.288	55.868	29.658	1.00	0.00	C
ATOM	8008	OD1	ASN	840	43.528	56.431	28.872	1.00	0.00	O
ATOM	8009	ND2	ASN	840	43.969	54.697	30.272	1.00	0.00	N
ATOM	8010	1HD2	ASN	840	44.599	54.230	30.924	1.00	0.00	H
ATOM	8011	2HD2	ASN	840	43.059	54.294	30.047	1.00	0.00	H
ATOM	8012	C	ASN	840	45.935	56.650	27.570	1.00	0.00	C
ATOM	8013	O	ASN	840	45.278	55.859	26.893	1.00	0.00	O
ATOM	8014	N	SER	841	46.073	57.945	27.234	1.00	0.00	N
ATOM	8015	HN	SER	841	46.668	58.542	27.808	1.00	0.00	H
ATOM	8016	CA	SER	841	45.411	58.516	26.093	1.00	0.00	C
ATOM	8017	CB	SER	841	45.710	60.017	25.933	1.00	0.00	C
ATOM	8018	OG	SER	841	45.208	60.739	27.047	1.00	0.00	O
ATOM	8019	HG	SER	841	45.393	61.666	26.948	1.00	0.00	H
ATOM	8020	C	SER	841	45.859	57.849	24.836	1.00	0.00	C
ATOM	8021	O	SER	841	45.042	57.532	23.973	1.00	0.00	O
ATOM	8022	N	LEU	842	47.168	57.588	24.705	1.00	0.00	N
ATOM	8023	HN	LEU	842	47.812	57.790	25.470	1.00	0.00	H
ATOM	8024	CA	LEU	842	47.653	57.024	23.482	1.00	0.00	C
ATOM	8025	CB	LEU	842	49.172	56.781	23.515	1.00	0.00	C
ATOM	8026	CG	LEU	842	49.997	58.075	23.665	1.00	0.00	C
ATOM	8027	CD1	LEU	842	51.504	57.779	23.694	1.00	0.00	C
ATOM	8028	CD2	LEU	842	49.622	59.107	22.589	1.00	0.00	C
ATOM	8029	C	LEU	842	46.973	55.708	23.256	1.00	0.00	C
ATOM	8030	O	LEU	842	46.545	55.410	22.141	1.00	0.00	O
ATOM	8031	N	ARG	843	46.835	54.886	24.313	1.00	0.00	N
ATOM	8032	HN	ARG	843	47.153	55.180	25.236	1.00	0.00	H
ATOM	8033	CA	ARG	843	46.237	53.592	24.133	1.00	0.00	C
ATOM	8034	CB	ARG	843	46.160	52.780	25.435	1.00	0.00	C
ATOM	8035	CG	ARG	843	47.499	52.213	25.901	1.00	0.00	C
ATOM	8036	CD	ARG	843	47.782	50.816	25.343	1.00	0.00	C
ATOM	8037	NE	ARG	843	48.437	50.979	24.015	1.00	0.00	N
ATOM	8038	HE	ARG	843	48.619	51.912	23.646	1.00	0.00	H
ATOM	8039	CZ	ARG	843	48.793	49.876	23.293	1.00	0.00	C
ATOM	8040	NH1	ARG	843	48.510	48.628	23.768	1.00	0.00	N
ATOM	8041	1HH1	ARG	843	48.027	48.518	24.660	1.00	0.00	H
ATOM	8042	2HH1	ARG	843	48.776	47.804	23.229	1.00	0.00	H
ATOM	8043	NH2	ARG	843	49.439	50.023	22.099	1.00	0.00	N
ATOM	8044	1HH2	ARG	843	49.650	50.956	21.744	1.00	0.00	H
ATOM	8045	2HH2	ARG	843	49.705	49.199	21.560	1.00	0.00	H
ATOM	8046	C	ARG	843	44.827	53.736	23.649	1.00	0.00	C
ATOM	8047	O	ARG	843	44.442	53.146	22.641	1.00	0.00	O
ATOM	8048	N	LYS	844	44.032	54.587	24.318	1.00	0.00	N
ATOM	8049	HN	LYS	844	44.421	55.155	25.071	1.00	0.00	H
ATOM	8050	CA	LYS	844	42.642	54.706	23.985	1.00	0.00	C
ATOM	8051	CB	LYS	844	41.874	55.694	24.883	1.00	0.00	C
ATOM	8052	CG	LYS	844	42.172	57.167	24.600	1.00	0.00	C
ATOM	8053	CD	LYS	844	41.217	58.125	25.316	1.00	0.00	C
ATOM	8054	CE	LYS	844	41.284	59.561	24.796	1.00	0.00	C
ATOM	8055	NZ	LYS	844	42.689	60.019	24.738	1.00	0.00	N
ATOM	8056	HZ1	LYS	844	42.734	60.977	24.391	1.00	0.00	H
ATOM	8057	HZ2	LYS	844	43.273	59.388	24.190	1.00	0.00	H
ATOM	8058	HZ3	LYS	844	43.160	59.917	25.637	1.00	0.00	H
ATOM	8059	C	LYS	844	42.538	55.172	22.574	1.00	0.00	C
ATOM	8060	O	LYS	844	41.527	54.934	21.917	1.00	0.00	O
ATOM	8061	N	ALA	845	43.563	55.888	22.076	1.00	0.00	N
ATOM	8062	HN	ALA	845	44.369	56.119	22.657	1.00	0.00	H
ATOM	8063	CA	ALA	845	43.497	56.319	20.711	1.00	0.00	C

ATOM	8064	CB	ALA	845	44.807	56.973	20.252	1.00	0.00	C
ATOM	8065	C	ALA	845	43.363	55.072	19.906	1.00	0.00	C
ATOM	8066	O	ALA	845	42.435	54.909	19.117	1.00	0.00	O
ATOM	8067	N	HIS	846	44.229	54.097	20.209	1.00	0.00	N
ATOM	8068	HN	HIS	846	44.888	54.238	20.975	1.00	0.00	H
ATOM	8069	CA	HIS	846	44.254	52.864	19.488	1.00	0.00	C
ATOM	8070	ND1	HIS	846	44.141	49.669	19.397	1.00	0.00	N
ATOM	8071	HD1	HIS	846	43.215	49.848	19.786	1.00	0.00	H
ATOM	8072	CG	HIS	846	45.232	50.510	19.453	1.00	0.00	C
ATOM	8073	CB	HIS	846	45.220	51.850	20.129	1.00	0.00	C
ATOM	8074	NE2	HIS	846	45.800	48.625	18.348	1.00	0.00	N
ATOM	8075	HE2	HIS	846	46.334	47.926	17.832	1.00	0.00	H
ATOM	8076	CD2	HIS	846	46.237	49.854	18.809	1.00	0.00	C
ATOM	8077	CE1	HIS	846	44.535	48.559	18.726	1.00	0.00	C
ATOM	8078	C	HIS	846	42.897	52.241	19.555	1.00	0.00	C
ATOM	8079	O	HIS	846	42.363	51.804	18.537	1.00	0.00	O
ATOM	8080	N	ILE	847	42.282	52.211	20.750	1.00	0.00	N
ATOM	8081	HN	ILE	847	42.696	52.680	21.556	1.00	0.00	H
ATOM	8082	CA	ILE	847	41.035	51.511	20.879	1.00	0.00	C
ATOM	8083	CB	ILE	847	40.518	51.410	22.288	1.00	0.00	C
ATOM	8084	CG1	ILE	847	40.144	52.777	22.869	1.00	0.00	C
ATOM	8085	CG2	ILE	847	41.579	50.665	23.115	1.00	0.00	C
ATOM	8086	CD1	ILE	847	39.369	52.672	24.178	1.00	0.00	C
ATOM	8087	C	ILE	847	39.982	52.129	20.009	1.00	0.00	C
ATOM	8088	O	ILE	847	39.212	51.412	19.372	1.00	0.00	O
ATOM	8089	N	PHE	848	39.925	53.471	19.926	1.00	0.00	N
ATOM	8090	HN	PHE	848	40.606	54.046	20.421	1.00	0.00	H
ATOM	8091	CA	PHE	848	38.897	54.087	19.134	1.00	0.00	C
ATOM	8092	CB	PHE	848	38.930	55.627	19.125	1.00	0.00	C
ATOM	8093	CG	PHE	848	38.454	56.089	20.460	1.00	0.00	C
ATOM	8094	CD1	PHE	848	37.111	56.087	20.751	1.00	0.00	C
ATOM	8095	CD2	PHE	848	39.339	56.501	21.429	1.00	0.00	C
ATOM	8096	CE1	PHE	848	36.662	56.503	21.982	1.00	0.00	C
ATOM	8097	CE2	PHE	848	38.895	56.919	22.661	1.00	0.00	C
ATOM	8098	CZ	PHE	848	37.551	56.923	22.939	1.00	0.00	C
ATOM	8099	C	PHE	848	39.052	53.611	17.738	1.00	0.00	C
ATOM	8100	O	PHE	848	38.066	53.360	17.048	1.00	0.00	O
ATOM	8101	N	GLY	849	40.303	53.482	17.274	1.00	0.00	N
ATOM	8102	HN	GLY	849	41.111	53.679	17.864	1.00	0.00	H
ATOM	8103	CA	GLY	849	40.458	53.057	15.920	1.00	0.00	C
ATOM	8104	C	GLY	849	39.886	51.683	15.727	1.00	0.00	C
ATOM	8105	O	GLY	849	39.032	51.485	14.866	1.00	0.00	O
ATOM	8106	N	ILE	850	40.266	50.714	16.579	1.00	0.00	N
ATOM	8107	HN	ILE	850	40.835	50.948	17.393	1.00	0.00	H
ATOM	8108	CA	ILE	850	39.874	49.350	16.348	1.00	0.00	C
ATOM	8109	CB	ILE	850	40.430	48.423	17.402	1.00	0.00	C
ATOM	8110	CG1	ILE	850	40.272	46.939	17.014	1.00	0.00	C
ATOM	8111	CG2	ILE	850	39.818	48.807	18.758	1.00	0.00	C
ATOM	8112	CD1	ILE	850	38.832	46.430	16.941	1.00	0.00	C
ATOM	8113	C	ILE	850	38.381	49.270	16.324	1.00	0.00	C
ATOM	8114	O	ILE	850	37.808	48.639	15.438	1.00	0.00	O
ATOM	8115	N	THR	851	37.702	49.938	17.269	1.00	0.00	N
ATOM	8116	HN	THR	851	38.196	50.506	17.957	1.00	0.00	H
ATOM	8117	CA	THR	851	36.272	49.842	17.298	1.00	0.00	C
ATOM	8118	CB	THR	851	35.678	50.632	18.425	1.00	0.00	C
ATOM	8119	CG1	THR	851	36.034	52.000	18.296	1.00	0.00	O
ATOM	8120	HG1	THR	851	35.658	52.501	19.010	1.00	0.00	H
ATOM	8121	CG2	THR	851	36.200	50.068	19.757	1.00	0.00	C
ATOM	8122	C	THR	851	35.693	50.367	16.018	1.00	0.00	C
ATOM	8123	O	THR	851	34.984	49.654	15.312	1.00	0.00	O
ATOM	8124	N	PHE	852	36.063	51.599	15.629	1.00	0.00	N
ATOM	8125	HN	PHE	852	36.768	52.099	16.171	1.00	0.00	H
ATOM	8126	CA	PHE	852	35.492	52.234	14.469	1.00	0.00	C
ATOM	8127	CB	PHE	852	36.142	53.610	14.212	1.00	0.00	C
ATOM	8128	CG	PHE	852	35.857	54.086	12.828	1.00	0.00	C
ATOM	8129	CD1	PHE	852	34.588	54.441	12.436	1.00	0.00	C
ATOM	8130	CD2	PHE	852	36.879	54.152	11.908	1.00	0.00	C
ATOM	8131	CE1	PHE	852	34.352	54.875	11.151	1.00	0.00	C
ATOM	8132	CE2	PHE	852	36.651	54.586	10.623	1.00	0.00	C
ATOM	8133	CZ	PHE	852	35.383	54.953	10.244	1.00	0.00	C
ATOM	8134	C	PHE	852	35.667	51.353	13.277	1.00	0.00	C
ATOM	8135	O	PHE	852	34.715	51.110	12.536	1.00	0.00	O
ATOM	8136	N	SER	853	36.875	50.803	13.087	1.00	0.00	N
ATOM	8137	HN	SER	853	37.622	50.963	13.762	1.00	0.00	H

ATOM	8138	CA	SER	853	37.112	49.990	11.933	1.00	0.00	C
ATOM	8139	CB	SER	853	38.536	49.414	11.909	1.00	0.00	C
ATOM	8140	OG	SER	853	38.734	48.568	13.032	1.00	0.00	O
ATOM	8141	HG	SER	853	39.615	48.212	13.017	1.00	0.00	H
ATOM	8142	C	SER	853	36.160	48.839	11.947	1.00	0.00	C
ATOM	8143	O	SER	853	35.490	48.567	10.956	1.00	0.00	O
ATOM	8144	N	PHE	854	35.998	48.198	13.114	1.00	0.00	N
ATOM	8145	HN	PHE	854	36.465	48.567	13.942	1.00	0.00	H
ATOM	8146	CA	PHE	854	35.197	47.016	13.247	1.00	0.00	C
ATOM	8147	CB	PHE	854	35.050	46.573	14.715	1.00	0.00	C
ATOM	8148	CG	PHE	854	34.214	45.339	14.749	1.00	0.00	C
ATOM	8149	CD1	PHE	854	32.840	45.416	14.738	1.00	0.00	C
ATOM	8150	CD2	PHE	854	34.813	44.101	14.798	1.00	0.00	C
ATOM	8151	CE1	PHE	854	32.073	44.275	14.769	1.00	0.00	C
ATOM	8152	CE2	PHE	854	34.051	42.957	14.829	1.00	0.00	C
ATOM	8153	CZ	PHE	854	32.680	43.043	14.815	1.00	0.00	C
ATOM	8154	C	PHE	854	33.832	47.336	12.734	1.00	0.00	C
ATOM	8155	O	PHE	854	33.163	46.479	12.160	1.00	0.00	O
ATOM	8156	N	THR	855	33.360	48.574	12.948	1.00	0.00	N
ATOM	8157	HN	THR	855	33.913	49.278	13.437	1.00	0.00	H
ATOM	8158	CA	THR	855	32.046	48.861	12.459	1.00	0.00	C
ATOM	8159	CB	THR	855	31.460	50.175	12.908	1.00	0.00	C
ATOM	8160	OG1	THR	855	32.161	51.281	12.366	1.00	0.00	O
ATOM	8161	HG1	THR	855	32.131	51.255	11.417	1.00	0.00	H
ATOM	8162	CG2	THR	855	31.508	50.217	14.444	1.00	0.00	C
ATOM	8163	C	THR	855	32.029	48.807	10.961	1.00	0.00	C
ATOM	8164	O	THR	855	31.083	48.293	10.370	1.00	0.00	O
ATOM	8165	N	GLN	856	33.075	49.337	10.302	1.00	0.00	N
ATOM	8166	HN	GLN	856	33.846	49.731	10.841	1.00	0.00	H
ATOM	8167	CA	GLN	856	33.148	49.370	8.865	1.00	0.00	C
ATOM	8168	CB	GLN	856	34.320	50.221	8.369	1.00	0.00	C
ATOM	8169	CG	GLN	856	34.280	51.639	8.943	1.00	0.00	C
ATOM	8170	CD	GLN	856	32.833	52.118	8.947	1.00	0.00	C
ATOM	8171	OE1	GLN	856	32.029	51.701	9.779	1.00	0.00	O
ATOM	8172	NE2	GLN	856	32.491	53.036	8.004	1.00	0.00	N
ATOM	8173	1HE2	GLN	856	31.523	53.357	8.007	1.00	0.00	H
ATOM	8174	2HE2	GLN	856	33.158	53.382	7.314	1.00	0.00	H
ATOM	8175	C	GLN	856	33.309	47.981	8.333	1.00	0.00	C
ATOM	8176	O	GLN	856	32.830	47.657	7.247	1.00	0.00	O
ATOM	8177	N	ALA	857	34.024	47.122	9.075	1.00	0.00	N
ATOM	8178	HN	ALA	857	34.445	47.432	9.951	1.00	0.00	H
ATOM	8179	CA	ALA	857	34.195	45.773	8.638	1.00	0.00	C
ATOM	8180	CB	ALA	857	35.014	44.921	9.624	1.00	0.00	C
ATOM	8181	C	ALA	857	32.821	45.205	8.566	1.00	0.00	C
ATOM	8182	O	ALA	857	32.488	44.475	7.637	1.00	0.00	O
ATOM	8183	N	MET	858	31.963	45.583	9.530	1.00	0.00	N
ATOM	8184	HN	MET	858	32.267	46.224	10.262	1.00	0.00	H
ATOM	8185	CA	MET	858	30.624	45.084	9.526	1.00	0.00	C
ATOM	8186	CB	MET	858	29.742	45.627	10.661	1.00	0.00	C
ATOM	8187	CG	MET	858	30.168	45.092	12.027	1.00	0.00	C
ATOM	8188	SD	MET	858	30.069	43.282	12.177	1.00	0.00	S
ATOM	8189	CE	MET	858	28.287	43.238	12.525	1.00	0.00	C
ATOM	8190	C	MET	858	30.032	45.524	8.232	1.00	0.00	C
ATOM	8191	O	MET	858	29.223	44.814	7.641	1.00	0.00	O
ATOM	8192	N	MET	859	30.449	46.701	7.738	1.00	0.00	N
ATOM	8193	HN	MET	859	31.161	47.242	8.229	1.00	0.00	H
ATOM	8194	CA	MET	859	29.885	47.190	6.516	1.00	0.00	C
ATOM	8195	CB	MET	859	30.516	48.523	6.070	1.00	0.00	C
ATOM	8196	CG	MET	859	30.129	48.964	4.658	1.00	0.00	C
ATOM	8197	SD	MET	859	31.138	48.225	3.336	1.00	0.00	S
ATOM	8198	CE	MET	859	32.403	49.529	3.351	1.00	0.00	C
ATOM	8199	C	MET	859	30.052	46.184	5.414	1.00	0.00	C
ATOM	8200	O	MET	859	29.055	45.774	4.821	1.00	0.00	O
ATOM	8201	N	TYR	860	31.286	45.711	5.137	1.00	0.00	N
ATOM	8202	HN	TYR	860	32.089	45.991	5.700	1.00	0.00	H
ATOM	8203	CA	TYR	860	31.445	44.805	4.034	1.00	0.00	C
ATOM	8204	CB	TYR	860	32.900	44.561	3.579	1.00	0.00	C
ATOM	8205	CG	TYR	860	33.590	43.537	4.414	1.00	0.00	C
ATOM	8206	CD1	TYR	860	34.242	43.855	5.583	1.00	0.00	C
ATOM	8207	CD2	TYR	860	33.588	42.227	3.993	1.00	0.00	C
ATOM	8208	CE1	TYR	860	34.878	42.877	6.315	1.00	0.00	C
ATOM	8209	CE2	TYR	860	34.219	41.247	4.718	1.00	0.00	C
ATOM	8210	CZ	TYR	860	34.868	41.571	5.882	1.00	0.00	C
ATOM	8211	OH	TYR	860	35.517	40.561	6.622	1.00	0.00	O

ATOM	8212	HH	TYR	860	35.967	40.785	7.428	1.00	0.00	H
ATOM	8213	C	TYR	860	30.820	43.489	4.369	1.00	0.00	C
ATOM	8214	O	TYR	860	30.143	42.903	3.526	1.00	0.00	O
ATOM	8215	N	PHE	861	30.999	43.014	5.624	1.00	0.00	N
ATOM	8216	HN	PHE	861	31.505	43.579	6.306	1.00	0.00	H
ATOM	8217	CA	PHE	861	30.488	41.726	6.013	1.00	0.00	C
ATOM	8218	CB	PHE	861	30.517	41.432	7.529	1.00	0.00	C
ATOM	8219	CG	PHE	861	31.844	41.000	8.060	1.00	0.00	C
ATOM	8220	CD1	PHE	861	32.158	39.662	8.117	1.00	0.00	C
ATOM	8221	CD2	PHE	861	32.760	41.908	8.532	1.00	0.00	C
ATOM	8222	CE1	PHE	861	33.367	39.240	8.619	1.00	0.00	C
ATOM	8223	CE2	PHE	861	33.971	41.498	9.035	1.00	0.00	C
ATOM	8224	CZ	PHE	861	34.277	40.160	9.081	1.00	0.00	C
ATOM	8225	C	PHE	861	29.033	41.715	5.710	1.00	0.00	C
ATOM	8226	O	PHE	861	28.538	40.810	5.041	1.00	0.00	O
ATOM	8227	N	SER	862	28.331	42.767	6.157	1.00	0.00	N
ATOM	8228	HN	SER	862	28.825	43.527	6.625	1.00	0.00	H
ATOM	8229	CA	SER	862	26.916	42.856	5.999	1.00	0.00	C
ATOM	8230	CB	SER	862	26.386	44.209	6.503	1.00	0.00	C
ATOM	8231	OG	SER	862	24.979	44.280	6.345	1.00	0.00	O
ATOM	8232	HG	SER	862	24.652	45.116	6.656	1.00	0.00	H
ATOM	8233	C	SER	862	26.571	42.722	4.548	1.00	0.00	C
ATOM	8234	O	SER	862	25.937	41.752	4.143	1.00	0.00	O
ATOM	8235	N	TYR	863	27.048	43.646	3.700	1.00	0.00	N
ATOM	8236	HN	TYR	863	27.719	44.344	4.021	1.00	0.00	H
ATOM	8237	CA	TYR	863	26.602	43.639	2.335	1.00	0.00	C
ATOM	8238	CB	TYR	863	27.203	44.781	1.499	1.00	0.00	C
ATOM	8239	CG	TYR	863	26.596	46.043	2.002	1.00	0.00	C
ATOM	8240	CD1	TYR	863	27.119	46.685	3.100	1.00	0.00	C
ATOM	8241	CD2	TYR	863	25.497	46.582	1.374	1.00	0.00	C
ATOM	8242	CE1	TYR	863	26.554	47.850	3.562	1.00	0.00	C
ATOM	8243	CE2	TYR	863	24.927	47.746	1.831	1.00	0.00	C
ATOM	8244	CZ	TYR	863	25.457	48.381	2.927	1.00	0.00	C
ATOM	8245	OH	TYR	863	24.877	49.576	3.402	1.00	0.00	O
ATOM	8246	HH	TYR	863	25.244	50.015	4.160	1.00	0.00	H
ATOM	8247	C	TYR	863	26.934	42.350	1.650	1.00	0.00	C
ATOM	8248	O	TYR	863	26.051	41.730	1.059	1.00	0.00	O
ATOM	8249	N	ALA	864	28.188	41.875	1.759	1.00	0.00	N
ATOM	8250	HN	ALA	864	28.853	42.329	2.385	1.00	0.00	H
ATOM	8251	CA	ALA	864	28.590	40.729	0.993	1.00	0.00	C
ATOM	8252	CB	ALA	864	30.039	40.311	1.272	1.00	0.00	C
ATOM	8253	C	ALA	864	27.745	39.548	1.329	1.00	0.00	C
ATOM	8254	O	ALA	864	27.202	38.896	0.438	1.00	0.00	O
ATOM	8255	N	GLY	865	27.561	39.268	2.628	1.00	0.00	N
ATOM	8256	HN	GLY	865	27.935	39.886	3.348	1.00	0.00	H
ATOM	8257	CA	GLY	865	26.833	38.090	2.990	1.00	0.00	C
ATOM	8258	C	GLY	865	25.457	38.212	2.431	1.00	0.00	C
ATOM	8259	O	GLY	865	24.906	37.248	1.903	1.00	0.00	O
ATOM	8260	N	CYS	866	24.881	39.424	2.513	1.00	0.00	N
ATOM	8261	HN	CYS	866	25.407	40.213	2.888	1.00	0.00	H
ATOM	8262	CA	CYS	866	23.533	39.608	2.075	1.00	0.00	C
ATOM	8263	CB	CYS	866	23.050	41.057	2.256	1.00	0.00	C
ATOM	8264	SG	CYS	866	21.336	41.294	1.699	1.00	0.00	S
ATOM	8265	C	CYS	866	23.387	39.263	0.625	1.00	0.00	C
ATOM	8266	O	CYS	866	22.672	38.332	0.265	1.00	0.00	O
ATOM	8267	N	PHE	867	24.134	39.945	-0.257	1.00	0.00	N
ATOM	8268	HN	PHE	867	24.826	40.615	0.077	1.00	0.00	H
ATOM	8269	CA	PHE	867	23.965	39.737	-1.668	1.00	0.00	C
ATOM	8270	CB	PHE	867	24.882	40.629	-2.523	1.00	0.00	C
ATOM	8271	CG	PHE	867	24.376	42.026	-2.413	1.00	0.00	C
ATOM	8272	CD1	PHE	867	23.415	42.487	-3.284	1.00	0.00	C
ATOM	8273	CD2	PHE	867	24.854	42.871	-1.439	1.00	0.00	C
ATOM	8274	CE1	PHE	867	22.941	43.773	-3.192	1.00	0.00	C
ATOM	8275	CE2	PHE	867	24.383	44.160	-1.342	1.00	0.00	C
ATOM	8276	CZ	PHE	867	23.425	44.613	-2.217	1.00	0.00	C
ATOM	8277	C	PHE	867	24.288	38.315	-1.989	1.00	0.00	C
ATOM	8278	O	PHE	867	23.643	37.701	-2.838	1.00	0.00	O
ATOM	8279	N	ARG	868	25.325	37.760	-1.343	1.00	0.00	N
ATOM	8280	HN	ARG	868	25.828	38.293	-0.634	1.00	0.00	H
ATOM	8281	CA	ARG	868	25.725	36.420	-1.649	1.00	0.00	C
ATOM	8282	CB	ARG	868	26.987	36.014	-0.865	1.00	0.00	C
ATOM	8283	CG	ARG	868	27.779	34.867	-1.495	1.00	0.00	C
ATOM	8284	CD	ARG	868	27.041	33.532	-1.505	1.00	0.00	C
ATOM	8285	NE	ARG	868	26.905	33.068	-0.099	1.00	0.00	N

ATOM	8286	HE	ARG	868	27.368	33.573	0.657	1.00	0.00	H
ATOM	8287	CZ	ARG	868	26.155	31.960	0.170	1.00	0.00	C
ATOM	8288	NH1	ARG	868	25.510	31.315	-0.846	1.00	0.00	N
ATOM	8289	1HH1	ARG	868	24.949	30.487	-0.645	1.00	0.00	H
ATOM	8290	2HH1	ARG	868	25.585	31.662	-1.802	1.00	0.00	H
ATOM	8291	NH2	ARG	868	26.054	31.496	1.450	1.00	0.00	N
ATOM	8292	1HH2	ARG	868	25.493	30.668	1.651	1.00	0.00	H
ATOM	8293	2HH2	ARG	868	26.536	31.978	2.209	1.00	0.00	H
ATOM	8294	C	ARG	868	24.624	35.459	-1.288	1.00	0.00	C
ATOM	8295	O	ARG	868	24.192	34.652	-2.110	1.00	0.00	O
ATOM	8296	N	PHE	869	24.097	35.564	-0.053	1.00	0.00	N
ATOM	8297	HN	PHE	869	24.404	36.325	0.554	1.00	0.00	H
ATOM	8298	CA	PHE	869	23.116	34.636	0.434	1.00	0.00	C
ATOM	8299	CB	PHE	869	22.758	34.898	1.909	1.00	0.00	C
ATOM	8300	CG	PHE	869	21.926	33.764	2.401	1.00	0.00	C
ATOM	8301	CD1	PHE	869	22.525	32.596	2.815	1.00	0.00	C
ATOM	8302	CD2	PHE	869	20.555	33.859	2.436	1.00	0.00	C
ATOM	8303	CE1	PHE	869	21.771	31.541	3.269	1.00	0.00	C
ATOM	8304	CE2	PHE	869	19.794	32.807	2.889	1.00	0.00	C
ATOM	8305	CZ	PHE	869	20.401	31.647	3.306	1.00	0.00	C
ATOM	8306	C	PHE	869	21.881	34.747	-0.396	1.00	0.00	C
ATOM	8307	O	PHE	869	21.316	33.739	-0.816	1.00	0.00	O
ATOM	8308	N	GLY	870	21.448	35.986	-0.689	1.00	0.00	N
ATOM	8309	HN	GLY	870	21.983	36.802	-0.391	1.00	0.00	H
ATOM	8310	CA	GLY	870	20.231	36.149	-1.422	1.00	0.00	C
ATOM	8311	C	GLY	870	20.349	35.463	-2.747	1.00	0.00	C
ATOM	8312	O	GLY	870	19.515	34.635	-3.100	1.00	0.00	O
ATOM	8313	N	ALA	871	21.461	35.687	-3.459	1.00	0.00	N
ATOM	8314	HN	ALA	871	22.216	36.219	-3.026	1.00	0.00	H
ATOM	8315	CA	ALA	871	21.642	35.215	-4.802	1.00	0.00	C
ATOM	8316	CB	ALA	871	23.045	35.511	-5.360	1.00	0.00	C
ATOM	8317	C	ALA	871	21.451	33.742	-4.818	1.00	0.00	C
ATOM	8318	O	ALA	871	21.008	33.201	-5.830	1.00	0.00	O
ATOM	8319	N	TYR	872	21.783	33.085	-3.688	1.00	0.00	N
ATOM	8320	HN	TYR	872	22.055	33.652	-2.885	1.00	0.00	H
ATOM	8321	CA	TYR	872	21.788	31.659	-3.514	1.00	0.00	C
ATOM	8322	CB	TYR	872	21.594	31.207	-2.056	1.00	0.00	C
ATOM	8323	CG	TYR	872	21.739	29.725	-2.069	1.00	0.00	C
ATOM	8324	CD1	TYR	872	22.991	29.152	-2.042	1.00	0.00	C
ATOM	8325	CD2	TYR	872	20.634	28.906	-2.118	1.00	0.00	C
ATOM	8326	CE1	TYR	872	23.141	27.785	-2.057	1.00	0.00	C
ATOM	8327	CE2	TYR	872	20.779	27.538	-2.134	1.00	0.00	C
ATOM	8328	CZ	TYR	872	22.032	26.975	-2.104	1.00	0.00	C
ATOM	8329	OH	TYR	872	22.180	25.572	-2.120	1.00	0.00	O
ATOM	8330	HH	TYR	872	23.046	25.183	-2.099	1.00	0.00	H
ATOM	8331	C	TYR	872	20.756	30.951	-4.360	1.00	0.00	C
ATOM	8332	O	TYR	872	19.585	31.320	-4.391	1.00	0.00	O
ATOM	8333	N	LEU	873	21.224	29.875	-5.032	1.00	0.00	N
ATOM	8334	HN	LEU	873	22.222	29.709	-4.901	1.00	0.00	H
ATOM	8335	CA	LEU	873	20.576	28.909	-5.906	1.00	0.00	C
ATOM	8336	CB	LEU	873	19.652	27.952	-5.116	1.00	0.00	C
ATOM	8337	CG	LEU	873	19.228	26.622	-5.799	1.00	0.00	C
ATOM	8338	CD1	LEU	873	18.316	25.819	-4.861	1.00	0.00	C
ATOM	8339	CD2	LEU	873	18.604	26.780	-7.195	1.00	0.00	C
ATOM	8340	C	LEU	873	19.831	29.444	-7.106	1.00	0.00	C
ATOM	8341	O	LEU	873	18.604	29.518	-7.122	1.00	0.00	O
ATOM	8342	N	VAL	874	20.591	29.907	-8.117	1.00	0.00	N
ATOM	8343	HN	VAL	874	21.590	29.977	-7.925	1.00	0.00	H
ATOM	8344	CA	VAL	874	20.175	30.316	-9.435	1.00	0.00	C
ATOM	8345	CB	VAL	874	20.981	31.441	-10.000	1.00	0.00	C
ATOM	8346	CG1	VAL	874	20.848	32.649	-9.055	1.00	0.00	C
ATOM	8347	CG2	VAL	874	22.410	30.952	-10.231	1.00	0.00	C
ATOM	8348	C	VAL	874	20.169	29.181	-10.436	1.00	0.00	C
ATOM	8349	O	VAL	874	20.150	29.441	-11.639	1.00	0.00	O
ATOM	8350	N	ALA	875	20.373	27.915	-10.014	1.00	0.00	N
ATOM	8351	HN	ALA	875	20.440	27.709	-9.017	1.00	0.00	H
ATOM	8352	CA	ALA	875	20.496	26.855	-10.989	1.00	0.00	C
ATOM	8353	CB	ALA	875	20.958	25.522	-10.377	1.00	0.00	C
ATOM	8354	C	ALA	875	19.208	26.592	-11.730	1.00	0.00	C
ATOM	8355	O	ALA	875	18.268	26.004	-11.205	1.00	0.00	O
ATOM	8356	N	HIS	876	19.199	26.949	-13.030	1.00	0.00	N
ATOM	8357	HN	HIS	876	20.050	27.392	-13.375	1.00	0.00	H
ATOM	8358	CA	HIS	876	18.140	26.785	-13.995	1.00	0.00	C
ATOM	8359	ND1	HIS	876	15.796	24.605	-12.960	1.00	0.00	N

ATOM	8360	HD1	HIS	876	15.110	25.217	-13.402	1.00	0.00	H
ATOM	8361	CG	HIS	876	17.136	24.518	-13.264	1.00	0.00	C
ATOM	8362	CB	HIS	876	17.809	25.315	-14.343	1.00	0.00	C
ATOM	8363	NE2	HIS	876	16.658	23.072	-11.599	1.00	0.00	N
ATOM	8364	HE2	HIS	876	16.752	22.359	-10.876	1.00	0.00	H
ATOM	8365	CD2	HIS	876	17.647	23.578	-12.423	1.00	0.00	C
ATOM	8366	CE1	HIS	876	15.564	23.719	-11.959	1.00	0.00	C
ATOM	8367	C	HIS	876	16.869	27.520	-13.664	1.00	0.00	C
ATOM	8368	O	HIS	876	15.801	27.111	-14.118	1.00	0.00	O
ATOM	8369	N	LYS	877	16.963	28.660	-12.939	1.00	0.00	N
ATOM	8370	HN	LYS	877	17.886	28.929	-12.599	1.00	0.00	H
ATOM	8371	CA	LYS	877	15.847	29.526	-12.610	1.00	0.00	C
ATOM	8372	CB	LYS	877	14.745	29.587	-13.681	1.00	0.00	C
ATOM	8373	CG	LYS	877	13.522	30.408	-13.270	1.00	0.00	C
ATOM	8374	CD	LYS	877	12.438	30.466	-14.349	1.00	0.00	C
ATOM	8375	CE	LYS	877	11.742	29.123	-14.591	1.00	0.00	C
ATOM	8376	NZ	LYS	877	10.870	28.789	-13.443	1.00	0.00	N
ATOM	8377	HZ1	LYS	877	10.407	27.895	-13.604	1.00	0.00	H
ATOM	8378	HZ2	LYS	877	10.203	29.534	-13.241	1.00	0.00	H
ATOM	8379	HZ3	LYS	877	11.380	28.801	-12.560	1.00	0.00	H
ATOM	8380	C	LYS	877	15.132	29.051	-11.383	1.00	0.00	C
ATOM	8381	O	LYS	877	14.273	28.178	-11.471	1.00	0.00	O
ATOM	8382	N	LEU	878	15.416	29.691	-10.228	1.00	0.00	N
ATOM	8383	HN	LEU	878	16.070	30.473	-10.266	1.00	0.00	H
ATOM	8384	CA	LEU	878	14.859	29.345	-8.947	1.00	0.00	C
ATOM	8385	CB	LEU	878	15.931	28.640	-8.070	1.00	0.00	C
ATOM	8386	CG	LEU	878	15.585	28.182	-6.630	1.00	0.00	C
ATOM	8387	CD1	LEU	878	15.827	29.268	-5.565	1.00	0.00	C
ATOM	8388	CD2	LEU	878	14.167	27.595	-6.566	1.00	0.00	C
ATOM	8389	C	LEU	878	14.344	30.615	-8.312	1.00	0.00	C
ATOM	8390	O	LEU	878	14.469	31.701	-8.873	1.00	0.00	O
ATOM	8391	N	MET	879	13.827	30.513	-7.071	1.00	0.00	N
ATOM	8392	HN	MET	879	13.908	29.600	-6.624	1.00	0.00	H
ATOM	8393	CA	MET	879	13.175	31.537	-6.302	1.00	0.00	C
ATOM	8394	CB	MET	879	12.781	31.062	-4.892	1.00	0.00	C
ATOM	8395	CG	MET	879	11.648	30.032	-4.890	1.00	0.00	C
ATOM	8396	SD	MET	879	10.003	30.712	-5.269	1.00	0.00	S
ATOM	8397	CE	MET	879	10.341	31.109	-7.008	1.00	0.00	C
ATOM	8398	C	MET	879	14.111	32.694	-6.168	1.00	0.00	C
ATOM	8399	O	MET	879	13.703	33.778	-5.752	1.00	0.00	O
ATOM	8400	N	SER	880	15.413	32.461	-6.401	1.00	0.00	N
ATOM	8401	HN	SER	880	15.726	31.512	-6.608	1.00	0.00	H
ATOM	8402	CA	SER	880	16.372	33.532	-6.363	1.00	0.00	C
ATOM	8403	CB	SER	880	17.818	33.029	-6.219	1.00	0.00	C
ATOM	8404	OG	SER	880	18.180	32.265	-7.360	1.00	0.00	O
ATOM	8405	HG	SER	880	19.073	31.954	-7.271	1.00	0.00	H
ATOM	8406	C	SER	880	16.307	34.324	-7.643	1.00	0.00	C
ATOM	8407	O	SER	880	16.581	33.801	-8.724	1.00	0.00	O
ATOM	8408	N	PHE	881	15.972	35.634	-7.534	1.00	0.00	N
ATOM	8409	HN	PHE	881	15.805	36.020	-6.605	1.00	0.00	H
ATOM	8410	CA	PHE	881	15.843	36.501	-8.676	1.00	0.00	C
ATOM	8411	CB	PHE	881	14.537	36.258	-9.475	1.00	0.00	C
ATOM	8412	CG	PHE	881	13.331	36.610	-8.661	1.00	0.00	C
ATOM	8413	CD1	PHE	881	12.999	35.874	-7.547	1.00	0.00	C
ATOM	8414	CD2	PHE	881	12.537	37.686	-8.996	1.00	0.00	C
ATOM	8415	CE1	PHE	881	11.895	36.198	-6.792	1.00	0.00	C
ATOM	8416	CE2	PHE	881	11.432	38.017	-8.248	1.00	0.00	C
ATOM	8417	CZ	PHE	881	11.110	37.270	-7.142	1.00	0.00	C
ATOM	8418	C	PHE	881	15.884	37.938	-8.193	1.00	0.00	C
ATOM	8419	O	PHE	881	16.591	38.274	-7.244	1.00	0.00	O
ATOM	8420	N	GLU	882	15.099	38.827	-8.839	1.00	0.00	N
ATOM	8421	HN	GLU	882	14.461	38.458	-9.544	1.00	0.00	H
ATOM	8422	CA	GLU	882	15.083	40.256	-8.619	1.00	0.00	C
ATOM	8423	CB	GLU	882	14.116	41.021	-9.545	1.00	0.00	C
ATOM	8424	CG	GLU	882	12.630	40.793	-9.243	1.00	0.00	C
ATOM	8425	CD	GLU	882	12.153	41.745	-8.149	1.00	0.00	C
ATOM	8426	OE1	GLU	882	12.923	42.672	-7.780	1.00	0.00	O
ATOM	8427	OE2	GLU	882	11.010	41.545	-7.659	1.00	0.00	O
ATOM	8428	C	GLU	882	14.723	40.683	-7.214	1.00	0.00	C
ATOM	8429	O	GLU	882	15.207	41.719	-6.765	1.00	0.00	O
ATOM	8430	N	ASP	883	13.906	39.910	-6.472	1.00	0.00	N
ATOM	8431	HN	ASP	883	13.671	38.990	-6.845	1.00	0.00	H
ATOM	8432	CA	ASP	883	13.332	40.271	-5.191	1.00	0.00	C
ATOM	8433	CB	ASP	883	12.690	39.062	-4.483	1.00	0.00	C

ATOM	8434	CG	ASP	883	13.755	37.997	-4.231	1.00	0.00	C
ATOM	8435	OD1	ASP	883	14.632	37.796	-5.114	1.00	0.00	O
ATOM	8436	OD2	ASP	883	13.693	37.353	-3.150	1.00	0.00	O
ATOM	8437	C	ASP	883	14.386	40.850	-4.292	1.00	0.00	C
ATOM	8438	O	ASP	883	14.085	41.648	-3.405	1.00	0.00	O
ATOM	8439	N	VAL	884	15.657	40.505	-4.534	1.00	0.00	N
ATOM	8440	HN	VAL	884	15.837	39.851	-5.296	1.00	0.00	H
ATOM	8441	CA	VAL	884	16.781	40.994	-3.792	1.00	0.00	C
ATOM	8442	CB	VAL	884	18.054	40.718	-4.534	1.00	0.00	C
ATOM	8443	CG1	VAL	884	19.240	41.263	-3.731	1.00	0.00	C
ATOM	8444	CG2	VAL	884	18.114	39.222	-4.868	1.00	0.00	C
ATOM	8445	C	VAL	884	16.665	42.500	-3.702	1.00	0.00	C
ATOM	8446	O	VAL	884	17.147	43.116	-2.752	1.00	0.00	O
ATOM	8447	N	LEU	885	16.042	43.145	-4.707	1.00	0.00	N
ATOM	8448	HN	LEU	885	15.673	42.612	-5.494	1.00	0.00	H
ATOM	8449	CA	LEU	885	15.889	44.578	-4.686	1.00	0.00	C
ATOM	8450	CB	LEU	885	15.222	45.123	-5.956	1.00	0.00	C
ATOM	8451	CG	LEU	885	16.182	45.194	-7.156	1.00	0.00	C
ATOM	8452	CD1	LEU	885	17.246	46.278	-6.923	1.00	0.00	C
ATOM	8453	CD2	LEU	885	16.804	43.828	-7.483	1.00	0.00	C
ATOM	8454	C	LEU	885	15.082	45.010	-3.499	1.00	0.00	C
ATOM	8455	O	LEU	885	15.355	46.057	-2.912	1.00	0.00	O
ATOM	8456	N	LEU	886	14.033	44.253	-3.133	1.00	0.00	N
ATOM	8457	HN	LEU	886	13.771	43.436	-3.685	1.00	0.00	H
ATOM	8458	CA	LEU	886	13.286	44.603	-1.960	1.00	0.00	C
ATOM	8459	CB	LEU	886	11.974	43.825	-1.793	1.00	0.00	C
ATOM	8460	CG	LEU	886	10.927	44.264	-2.832	1.00	0.00	C
ATOM	8461	CD1	LEU	886	11.383	43.917	-4.255	1.00	0.00	C
ATOM	8462	CD2	LEU	886	9.524	43.740	-2.499	1.00	0.00	C
ATOM	8463	C	LEU	886	14.171	44.385	-0.777	1.00	0.00	C
ATOM	8464	O	LEU	886	14.006	45.013	0.263	1.00	0.00	O
ATOM	8465	N	VAL	887	15.132	43.458	-0.879	1.00	0.00	N
ATOM	8466	HN	VAL	887	15.238	42.900	-1.726	1.00	0.00	H
ATOM	8467	CA	VAL	887	16.009	43.275	0.244	1.00	0.00	C
ATOM	8468	CB	VAL	887	17.062	42.240	-0.007	1.00	0.00	C
ATOM	8469	CG1	VAL	887	18.008	42.202	1.206	1.00	0.00	C
ATOM	8470	CG2	VAL	887	16.363	40.901	-0.298	1.00	0.00	C
ATOM	8471	C	VAL	887	16.694	44.587	0.503	1.00	0.00	C
ATOM	8472	O	VAL	887	16.834	45.025	1.646	1.00	0.00	O
ATOM	8473	N	PHE	888	17.084	45.286	-0.575	1.00	0.00	N
ATOM	8474	HN	PHE	888	16.924	44.902	-1.506	1.00	0.00	H
ATOM	8475	CA	PHE	888	17.722	46.563	-0.439	1.00	0.00	C
ATOM	8476	CB	PHE	888	17.977	47.235	-1.805	1.00	0.00	C
ATOM	8477	CG	PHE	888	18.468	48.630	-1.590	1.00	0.00	C
ATOM	8478	CD1	PHE	888	17.578	49.668	-1.419	1.00	0.00	C
ATOM	8479	CD2	PHE	888	19.816	48.906	-1.569	1.00	0.00	C
ATOM	8480	CE1	PHE	888	18.022	50.955	-1.224	1.00	0.00	C
ATOM	8481	CE2	PHE	888	20.267	50.191	-1.373	1.00	0.00	C
ATOM	8482	CZ	PHE	888	19.371	51.219	-1.200	1.00	0.00	C
ATOM	8483	C	PHE	888	16.765	47.428	0.319	1.00	0.00	C
ATOM	8484	O	PHE	888	17.161	48.263	1.131	1.00	0.00	O
ATOM	8485	N	SER	889	15.459	47.249	0.067	1.00	0.00	N
ATOM	8486	HN	SER	889	15.161	46.514	-0.575	1.00	0.00	H
ATOM	8487	CA	SER	889	14.483	48.086	0.696	1.00	0.00	C
ATOM	8488	CB	SER	889	13.037	47.707	0.311	1.00	0.00	C
ATOM	8489	OG	SER	889	12.446	46.792	1.218	1.00	0.00	O
ATOM	8490	HG	SER	889	11.556	46.559	0.981	1.00	0.00	H
ATOM	8491	C	SER	889	14.589	47.997	2.200	1.00	0.00	C
ATOM	8492	O	SER	889	14.555	49.014	2.889	1.00	0.00	O
ATOM	8493	N	ALA	890	14.694	46.778	2.761	1.00	0.00	N
ATOM	8494	HN	ALA	890	14.726	45.962	2.150	1.00	0.00	H
ATOM	8495	CA	ALA	890	14.763	46.573	4.189	1.00	0.00	C
ATOM	8496	CB	ALA	890	14.649	45.087	4.573	1.00	0.00	C
ATOM	8497	C	ALA	890	16.041	47.096	4.778	1.00	0.00	C
ATOM	8498	O	ALA	890	16.056	47.597	5.904	1.00	0.00	O
ATOM	8499	N	VAL	891	17.170	46.927	4.065	1.00	0.00	N
ATOM	8500	HN	VAL	891	17.136	46.482	3.148	1.00	0.00	H
ATOM	8501	CA	VAL	891	18.422	47.377	4.604	1.00	0.00	C
ATOM	8502	CB	VAL	891	19.615	46.967	3.782	1.00	0.00	C
ATOM	8503	CG1	VAL	891	19.507	47.565	2.371	1.00	0.00	C
ATOM	8504	CG2	VAL	891	20.883	47.398	4.537	1.00	0.00	C
ATOM	8505	C	VAL	891	18.382	48.870	4.698	1.00	0.00	C
ATOM	8506	O	VAL	891	18.730	49.455	5.725	1.00	0.00	O
ATOM	8507	N	VAL	892	17.904	49.521	3.620	1.00	0.00	N

ATOM	8508	HN	VAL	892	17.591	48.979	2.814	1.00	0.00	H
ATOM	8509	CA	VAL	892	17.821	50.945	3.569	1.00	0.00	C
ATOM	8510	CB	VAL	892	17.399	51.493	2.230	1.00	0.00	C
ATOM	8511	CG1	VAL	892	15.911	51.209	1.992	1.00	0.00	C
ATOM	8512	CG2	VAL	892	17.751	52.989	2.188	1.00	0.00	C
ATOM	8513	C	VAL	892	16.830	51.361	4.608	1.00	0.00	C
ATOM	8514	O	VAL	892	16.844	52.495	5.084	1.00	0.00	O
ATOM	8515	N	PHE	893	15.897	50.458	4.964	1.00	0.00	N
ATOM	8516	HN	PHE	893	15.869	49.527	4.549	1.00	0.00	H
ATOM	8517	CA	PHE	893	14.946	50.867	5.952	1.00	0.00	C
ATOM	8518	CB	PHE	893	13.859	49.839	6.319	1.00	0.00	C
ATOM	8519	CG	PHE	893	13.034	49.550	5.116	1.00	0.00	C
ATOM	8520	CD1	PHE	893	12.721	50.551	4.231	1.00	0.00	C
ATOM	8521	CD2	PHE	893	12.508	48.295	4.921	1.00	0.00	C
ATOM	8522	CE1	PHE	893	11.951	50.272	3.128	1.00	0.00	C
ATOM	8523	CE2	PHE	893	11.734	48.012	3.822	1.00	0.00	C
ATOM	8524	CZ	PHE	893	11.461	49.006	2.915	1.00	0.00	C
ATOM	8525	C	PHE	893	15.656	51.184	7.231	1.00	0.00	C
ATOM	8526	O	PHE	893	15.448	52.251	7.810	1.00	0.00	O
ATOM	8527	N	GLY	894	16.553	50.287	7.683	1.00	0.00	N
ATOM	8528	HN	GLY	894	16.783	49.474	7.112	1.00	0.00	H
ATOM	8529	CA	GLY	894	17.191	50.461	8.960	1.00	0.00	C
ATOM	8530	C	GLY	894	17.876	51.788	8.946	1.00	0.00	C
ATOM	8531	O	GLY	894	17.839	52.553	9.913	1.00	0.00	O
ATOM	8532	N	ALA	895	18.478	52.108	7.795	1.00	0.00	N
ATOM	8533	HN	ALA	895	18.439	51.456	7.011	1.00	0.00	H
ATOM	8534	CA	ALA	895	19.172	53.343	7.645	1.00	0.00	C
ATOM	8535	CB	ALA	895	19.799	53.502	6.251	1.00	0.00	C
ATOM	8536	C	ALA	895	18.206	54.480	7.838	1.00	0.00	C
ATOM	8537	O	ALA	895	18.553	55.504	8.419	1.00	0.00	O
ATOM	8538	N	MET	896	16.953	54.347	7.370	1.00	0.00	N
ATOM	8539	HN	MET	896	16.644	53.462	6.968	1.00	0.00	H
ATOM	8540	CA	MET	896	16.050	55.470	7.442	1.00	0.00	C
ATOM	8541	CB	MET	896	14.662	55.175	6.832	1.00	0.00	C
ATOM	8542	CG	MET	896	13.726	54.380	7.748	1.00	0.00	C
ATOM	8543	SD	MET	896	12.257	53.677	6.939	1.00	0.00	S
ATOM	8544	CE	MET	896	11.332	55.235	6.819	1.00	0.00	C
ATOM	8545	C	MET	896	15.833	55.895	8.873	1.00	0.00	C
ATOM	8546	O	MET	896	15.896	57.082	9.199	1.00	0.00	O
ATOM	8547	N	ALA	897	15.602	54.928	9.778	1.00	0.00	N
ATOM	8548	HN	ALA	897	15.634	53.954	9.476	1.00	0.00	H
ATOM	8549	CA	ALA	897	15.312	55.217	11.154	1.00	0.00	C
ATOM	8550	CB	ALA	897	14.989	53.965	11.987	1.00	0.00	C
ATOM	8551	C	ALA	897	16.490	55.881	11.779	1.00	0.00	C
ATOM	8552	O	ALA	897	16.335	56.711	12.676	1.00	0.00	O
ATOM	8553	N	VAL	898	17.708	55.523	11.330	1.00	0.00	N
ATOM	8554	HN	VAL	898	17.806	54.876	10.547	1.00	0.00	H
ATOM	8555	CA	VAL	898	18.863	56.071	11.977	1.00	0.00	C
ATOM	8556	CB	VAL	898	20.193	55.650	11.413	1.00	0.00	C
ATOM	8557	CG1	VAL	898	20.232	54.118	11.349	1.00	0.00	C
ATOM	8558	CG2	VAL	898	20.492	56.404	10.109	1.00	0.00	C
ATOM	8559	C	VAL	898	18.790	57.558	11.849	1.00	0.00	C
ATOM	8560	O	VAL	898	19.151	58.294	12.768	1.00	0.00	O
ATOM	8561	N	GLY	899	18.260	58.035	10.712	1.00	0.00	N
ATOM	8562	HN	GLY	899	17.899	57.392	10.007	1.00	0.00	H
ATOM	8563	CA	GLY	899	18.202	59.448	10.490	1.00	0.00	C
ATOM	8564	C	GLY	899	17.423	60.081	11.607	1.00	0.00	C
ATOM	8565	O	GLY	899	17.760	61.169	12.073	1.00	0.00	O
ATOM	8566	N	GLN	900	16.355	59.408	12.065	1.00	0.00	N
ATOM	8567	HN	GLN	900	16.187	58.462	11.724	1.00	0.00	H
ATOM	8568	CA	GLN	900	15.438	59.975	13.021	1.00	0.00	C
ATOM	8569	CB	GLN	900	14.264	59.022	13.284	1.00	0.00	C
ATOM	8570	CG	GLN	900	13.032	59.735	13.826	1.00	0.00	C
ATOM	8571	CD	GLN	900	12.414	60.403	12.612	1.00	0.00	C
ATOM	8572	OE1	GLN	900	11.537	59.838	11.960	1.00	0.00	O
ATOM	8573	NE2	GLN	900	12.911	61.623	12.276	1.00	0.00	N
ATOM	8574	1HE2	GLN	900	13.638	62.091	12.817	1.00	0.00	H
ATOM	8575	2HE2	GLN	900	12.496	62.072	11.460	1.00	0.00	H
ATOM	8576	C	GLN	900	16.052	60.261	14.375	1.00	0.00	C
ATOM	8577	O	GLN	900	15.930	61.371	14.899	1.00	0.00	O
ATOM	8578	N	VAL	901	16.752	59.280	14.982	1.00	0.00	N
ATOM	8579	HN	VAL	901	16.931	58.396	14.505	1.00	0.00	H
ATOM	8580	CA	VAL	901	17.243	59.508	16.322	1.00	0.00	C
ATOM	8581	CB	VAL	901	17.939	58.321	16.923	1.00	0.00	C

ATOM	8582	CG1	VAL	901	19.096	57.893	16.003	1.00	0.00	C
ATOM	8583	CG2	VAL	901	18.393	58.712	18.342	1.00	0.00	C
ATOM	8584	C	VAL	901	18.215	60.626	16.272	1.00	0.00	C
ATOM	8585	O	VAL	901	18.247	61.498	17.144	1.00	0.00	O
ATOM	8586	N	SER	902	19.035	60.604	15.216	1.00	0.00	N
ATOM	8587	HN	SER	902	18.909	59.873	14.516	1.00	0.00	H
ATOM	8588	CA	SER	902	20.077	61.557	15.026	1.00	0.00	C
ATOM	8589	CB	SER	902	21.100	61.114	13.966	1.00	0.00	C
ATOM	8590	OG	SER	902	21.782	59.945	14.394	1.00	0.00	O
ATOM	8591	HG	SER	902	22.414	59.671	13.739	1.00	0.00	H
ATOM	8592	C	SER	902	19.515	62.872	14.567	1.00	0.00	C
ATOM	8593	O	SER	902	20.290	63.782	14.284	1.00	0.00	O
ATOM	8594	N	SER	903	18.180	63.034	14.440	1.00	0.00	N
ATOM	8595	HN	SER	903	17.515	62.311	14.714	1.00	0.00	H
ATOM	8596	CA	SER	903	17.759	64.299	13.891	1.00	0.00	C
ATOM	8597	CB	SER	903	17.378	64.187	12.405	1.00	0.00	C
ATOM	8598	OG	SER	903	17.187	65.477	11.848	1.00	0.00	O
ATOM	8599	HG	SER	903	16.952	65.408	10.930	1.00	0.00	H
ATOM	8600	C	SER	903	16.573	64.849	14.638	1.00	0.00	C
ATOM	8601	O	SER	903	16.108	64.260	15.614	1.00	0.00	O
ATOM	8602	N	PHE	904	16.110	66.054	14.213	1.00	0.00	N
ATOM	8603	HN	PHE	904	16.608	66.522	13.456	1.00	0.00	H
ATOM	8604	CA	PHE	904	14.952	66.707	14.774	1.00	0.00	C
ATOM	8605	CB	PHE	904	13.707	65.814	14.948	1.00	0.00	C
ATOM	8606	CG	PHE	904	12.866	65.895	13.717	1.00	0.00	C
ATOM	8607	CD1	PHE	904	13.161	65.189	12.574	1.00	0.00	C
ATOM	8608	CD2	PHE	904	11.746	66.697	13.726	1.00	0.00	C
ATOM	8609	CE1	PHE	904	12.351	65.295	11.464	1.00	0.00	C
ATOM	8610	CE2	PHE	904	10.935	66.805	12.622	1.00	0.00	C
ATOM	8611	CZ	PHE	904	11.239	66.103	11.483	1.00	0.00	C
ATOM	8612	C	PHE	904	15.271	67.356	16.095	1.00	0.00	C
ATOM	8613	O	PHE	904	16.414	67.699	16.395	1.00	0.00	O
ATOM	8614	N	ALA	905	14.217	67.511	16.925	1.00	0.00	N
ATOM	8615	HN	ALA	905	13.339	67.099	16.610	1.00	0.00	H
ATOM	8616	CA	ALA	905	14.175	68.185	18.200	1.00	0.00	C
ATOM	8617	CB	ALA	905	12.821	67.934	18.900	1.00	0.00	C
ATOM	8618	C	ALA	905	15.293	67.696	19.080	1.00	0.00	C
ATOM	8619	O	ALA	905	15.917	66.679	18.774	1.00	0.00	O
ATOM	8620	N	PRO	906	15.606	68.441	20.137	1.00	0.00	N
ATOM	8621	CA	PRO	906	16.660	68.069	21.043	1.00	0.00	C
ATOM	8622	CD	PRO	906	14.684	69.388	20.751	1.00	0.00	C
ATOM	8623	CB	PRO	906	16.586	69.059	22.203	1.00	0.00	C
ATOM	8624	CG	PRO	906	15.104	69.464	22.226	1.00	0.00	C
ATOM	8625	C	PRO	906	16.349	66.670	21.458	1.00	0.00	C
ATOM	8626	O	PRO	906	15.165	66.352	21.511	1.00	0.00	O
ATOM	8627	N	ASP	907	17.368	65.851	21.835	1.00	0.00	N
ATOM	8628	HN	ASP	907	18.287	66.289	21.896	1.00	0.00	H
ATOM	8629	CA	ASP	907	17.321	64.435	22.163	1.00	0.00	C
ATOM	8630	CB	ASP	907	18.675	63.866	22.621	1.00	0.00	C
ATOM	8631	CG	ASP	907	19.532	63.617	21.386	1.00	0.00	C
ATOM	8632	OD1	ASP	907	18.954	63.544	20.268	1.00	0.00	O
ATOM	8633	OD2	ASP	907	20.774	63.482	21.546	1.00	0.00	O
ATOM	8634	C	ASP	907	16.332	64.217	23.280	1.00	0.00	C
ATOM	8635	O	ASP	907	16.237	63.135	23.846	1.00	0.00	O
ATOM	8636	N	TYR	908	15.767	65.310	23.797	1.00	0.00	N
ATOM	8637	HN	TYR	908	16.131	66.201	23.460	1.00	0.00	H
ATOM	8638	CA	TYR	908	14.721	65.391	24.759	1.00	0.00	C
ATOM	8639	CB	TYR	908	14.171	64.061	25.324	1.00	0.00	C
ATOM	8640	CG	TYR	908	12.772	64.272	25.798	1.00	0.00	C
ATOM	8641	CD1	TYR	908	11.787	64.546	24.877	1.00	0.00	C
ATOM	8642	CD2	TYR	908	12.418	64.158	27.121	1.00	0.00	C
ATOM	8643	CE1	TYR	908	10.481	64.733	25.262	1.00	0.00	C
ATOM	8644	CE2	TYR	908	11.112	64.343	27.513	1.00	0.00	C
ATOM	8645	CZ	TYR	908	10.140	64.632	26.587	1.00	0.00	C
ATOM	8646	OH	TYR	908	8.801	64.819	26.993	1.00	0.00	O
ATOM	8647	HH	TYR	908	8.565	64.749	27.911	1.00	0.00	H
ATOM	8648	C	TYR	908	15.609	66.036	25.744	1.00	0.00	C
ATOM	8649	O	TYR	908	16.186	67.077	25.444	1.00	0.00	O
ATOM	8650	N	ALA	909	15.756	65.451	26.939	1.00	0.00	N
ATOM	8651	HN	ALA	909	15.130	64.716	27.267	1.00	0.00	H
ATOM	8652	CA	ALA	909	16.856	65.930	27.727	1.00	0.00	C
ATOM	8653	CB	ALA	909	18.189	65.957	26.957	1.00	0.00	C
ATOM	8654	C	ALA	909	16.557	67.290	28.222	1.00	0.00	C
ATOM	8655	O	ALA	909	15.548	67.518	28.871	1.00	0.00	O

ATOM	8656	N	LYS	910	17.438	68.242	27.889	1.00	0.00	N
ATOM	8657	HN	LYS	910	18.213	67.986	27.278	1.00	0.00	H
ATOM	8658	CA	LYS	910	17.356	69.600	28.341	1.00	0.00	C
ATOM	8659	CB	LYS	910	18.354	70.509	27.597	1.00	0.00	C
ATOM	8660	CG	LYS	910	18.558	70.141	26.119	1.00	0.00	C
ATOM	8661	CD	LYS	910	19.350	68.840	25.912	1.00	0.00	C
ATOM	8662	CE	LYS	910	19.535	68.415	24.453	1.00	0.00	C
ATOM	8663	NZ	LYS	910	18.420	67.549	24.018	1.00	0.00	N
ATOM	8664	HZ1	LYS	910	18.543	67.266	23.046	1.00	0.00	H
ATOM	8665	HZ2	LYS	910	17.514	67.992	24.171	1.00	0.00	H
ATOM	8666	HZ3	LYS	910	18.302	66.745	24.634	1.00	0.00	H
ATOM	8667	C	LYS	910	15.965	70.087	28.079	1.00	0.00	C
ATOM	8668	O	LYS	910	15.474	70.958	28.795	1.00	0.00	O
ATOM	8669	N	ALA	911	15.286	69.553	27.043	1.00	0.00	N
ATOM	8670	HN	ALA	911	15.713	68.858	26.431	1.00	0.00	H
ATOM	8671	CA	ALA	911	13.936	70.003	26.835	1.00	0.00	C
ATOM	8672	CB	ALA	911	13.292	69.364	25.593	1.00	0.00	C
ATOM	8673	C	ALA	911	13.082	69.630	28.028	1.00	0.00	C
ATOM	8674	O	ALA	911	12.352	70.452	28.580	1.00	0.00	O
ATOM	8675	N	LYS	912	13.168	68.371	28.490	1.00	0.00	N
ATOM	8676	HN	LYS	912	13.793	67.714	28.023	1.00	0.00	H
ATOM	8677	CA	LYS	912	12.405	67.924	29.622	1.00	0.00	C
ATOM	8678	CB	LYS	912	12.610	66.435	29.963	1.00	0.00	C
ATOM	8679	CG	LYS	912	13.957	66.128	30.620	1.00	0.00	C
ATOM	8680	CD	LYS	912	14.020	64.745	31.272	1.00	0.00	C
ATOM	8681	CE	LYS	912	15.365	64.437	31.935	1.00	0.00	C
ATOM	8682	NZ	LYS	912	15.340	63.081	32.529	1.00	0.00	N
ATOM	8683	HZ1	LYS	912	16.236	62.876	32.971	1.00	0.00	H
ATOM	8684	HZ2	LYS	912	15.079	62.370	31.846	1.00	0.00	H
ATOM	8685	HZ3	LYS	912	14.560	62.961	33.175	1.00	0.00	H
ATOM	8686	C	LYS	912	12.778	68.704	30.855	1.00	0.00	C
ATOM	8687	O	LYS	912	11.903	69.120	31.615	1.00	0.00	O
ATOM	8688	N	ILE	913	14.084	68.948	31.092	1.00	0.00	N
ATOM	8689	HN	ILE	913	14.798	68.645	30.430	1.00	0.00	H
ATOM	8690	CA	ILE	913	14.450	69.648	32.303	1.00	0.00	C
ATOM	8691	CB	ILE	913	15.939	69.804	32.473	1.00	0.00	C
ATOM	8692	CG1	ILE	913	16.261	70.354	33.872	1.00	0.00	C
ATOM	8693	CG2	ILE	913	16.499	70.653	31.322	1.00	0.00	C
ATOM	8694	CD1	ILE	913	17.742	70.257	34.238	1.00	0.00	C
ATOM	8695	C	ILE	913	13.802	70.987	32.265	1.00	0.00	C
ATOM	8696	O	ILE	913	13.200	71.442	33.239	1.00	0.00	O
ATOM	8697	N	SER	914	13.864	71.641	31.101	1.00	0.00	N
ATOM	8698	HN	SER	914	14.315	71.229	30.284	1.00	0.00	H
ATOM	8699	CA	SER	914	13.273	72.941	31.046	1.00	0.00	C
ATOM	8700	CB	SER	914	13.494	73.618	29.685	1.00	0.00	C
ATOM	8701	OG	SER	914	14.883	73.825	29.474	1.00	0.00	O
ATOM	8702	HG	SER	914	15.020	74.244	28.632	1.00	0.00	H
ATOM	8703	C	SER	914	11.789	72.789	31.260	1.00	0.00	C
ATOM	8704	O	SER	914	11.149	73.648	31.866	1.00	0.00	O
ATOM	8705	N	ALA	915	11.193	71.678	30.777	1.00	0.00	N
ATOM	8706	HN	ALA	915	11.747	70.955	30.319	1.00	0.00	H
ATOM	8707	CA	ALA	915	9.768	71.524	30.915	1.00	0.00	C
ATOM	8708	CB	ALA	915	9.250	70.232	30.263	1.00	0.00	C
ATOM	8709	C	ALA	915	9.377	71.483	32.371	1.00	0.00	C
ATOM	8710	O	ALA	915	8.458	72.187	32.802	1.00	0.00	O
ATOM	8711	N	ALA	916	10.109	70.698	33.187	1.00	0.00	N
ATOM	8712	HN	ALA	916	10.935	70.220	32.827	1.00	0.00	H
ATOM	8713	CA	ALA	916	9.728	70.533	34.562	1.00	0.00	C
ATOM	8714	CB	ALA	916	10.713	69.651	35.347	1.00	0.00	C
ATOM	8715	C	ALA	916	9.713	71.873	35.218	1.00	0.00	C
ATOM	8716	O	ALA	916	8.763	72.223	35.919	1.00	0.00	O
ATOM	8717	N	HIS	917	10.748	72.689	34.959	1.00	0.00	N
ATOM	8718	HN	HIS	917	11.470	72.415	34.293	1.00	0.00	H
ATOM	8719	CA	HIS	917	10.821	73.948	35.633	1.00	0.00	C
ATOM	8720	ND1	HIS	917	13.755	74.699	37.057	1.00	0.00	N
ATOM	8721	HD1	HIS	917	13.221	75.215	37.757	1.00	0.00	H
ATOM	8722	CG	HIS	917	13.345	74.381	35.781	1.00	0.00	C
ATOM	8723	CB	HIS	917	12.026	74.801	35.206	1.00	0.00	C
ATOM	8724	NE2	HIS	917	15.425	73.573	36.116	1.00	0.00	N
ATOM	8725	HE2	HIS	917	16.322	73.111	35.968	1.00	0.00	H
ATOM	8726	CD2	HIS	917	14.375	73.690	35.221	1.00	0.00	C
ATOM	8727	CE1	HIS	917	15.005	74.194	37.204	1.00	0.00	C
ATOM	8728	C	HIS	917	9.618	74.794	35.342	1.00	0.00	C
ATOM	8729	O	HIS	917	8.914	75.242	36.247	1.00	0.00	O

ATOM	8730	N	ILE	918	9.309	74.983	34.053	1.00	0.00	N
ATOM	8731	HN	ILE	918	9.823	74.479	33.331	1.00	0.00	H
ATOM	8732	CA	ILE	918	8.263	75.887	33.679	1.00	0.00	C
ATOM	8733	CB	ILE	918	8.130	75.998	32.178	1.00	0.00	C
ATOM	8734	CG1	ILE	918	7.073	77.035	31.754	1.00	0.00	C
ATOM	8735	CG2	ILE	918	7.881	74.592	31.615	1.00	0.00	C
ATOM	8736	CD1	ILE	918	5.623	76.605	31.971	1.00	0.00	C
ATOM	8737	C	ILE	918	6.990	75.421	34.296	1.00	0.00	C
ATOM	8738	O	ILE	918	6.127	76.231	34.633	1.00	0.00	O
ATOM	8739	N	ILE	919	6.834	74.093	34.422	1.00	0.00	N
ATOM	8740	HN	ILE	919	7.595	73.476	34.139	1.00	0.00	H
ATOM	8741	CA	ILE	919	5.627	73.518	34.944	1.00	0.00	C
ATOM	8742	CB	ILE	919	5.625	72.016	34.884	1.00	0.00	C
ATOM	8743	CG1	ILE	919	5.674	71.529	33.425	1.00	0.00	C
ATOM	8744	CG2	ILE	919	4.403	71.510	35.670	1.00	0.00	C
ATOM	8745	CD1	ILE	919	5.910	70.025	33.288	1.00	0.00	C
ATOM	8746	C	ILE	919	5.386	73.888	36.374	1.00	0.00	C
ATOM	8747	O	ILE	919	4.275	74.282	36.726	1.00	0.00	O
ATOM	8748	N	MET	920	6.409	73.796	37.244	1.00	0.00	N
ATOM	8749	HN	MET	920	7.348	73.550	36.930	1.00	0.00	H
ATOM	8750	CA	MET	920	6.134	74.056	38.633	1.00	0.00	C
ATOM	8751	CB	MET	920	7.379	73.933	39.527	1.00	0.00	C
ATOM	8752	CG	MET	920	7.077	74.118	41.017	1.00	0.00	C
ATOM	8753	SD	MET	920	8.531	74.007	42.103	1.00	0.00	S
ATOM	8754	CE	MET	920	9.197	75.626	41.618	1.00	0.00	C
ATOM	8755	C	MET	920	5.638	75.469	38.774	1.00	0.00	C
ATOM	8756	O	MET	920	4.690	75.756	39.506	1.00	0.00	O
ATOM	8757	N	ILE	921	6.266	76.392	38.036	1.00	0.00	N
ATOM	8758	HN	ILE	921	6.993	76.089	37.388	1.00	0.00	H
ATOM	8759	CA	ILE	921	5.957	77.796	38.119	1.00	0.00	C
ATOM	8760	CB	ILE	921	6.930	78.593	37.312	1.00	0.00	C
ATOM	8761	CG1	ILE	921	8.342	78.353	37.871	1.00	0.00	C
ATOM	8762	CG2	ILE	921	6.493	80.066	37.322	1.00	0.00	C
ATOM	8763	CD1	ILE	921	9.452	78.733	36.902	1.00	0.00	C
ATOM	8764	C	ILE	921	4.576	78.098	37.644	1.00	0.00	C
ATOM	8765	O	ILE	921	3.892	78.981	38.169	1.00	0.00	O
ATOM	8766	N	ILE	922	4.160	77.412	36.577	1.00	0.00	N
ATOM	8767	HN	ILE	922	4.780	76.730	36.140	1.00	0.00	H
ATOM	8768	CA	ILE	922	2.855	77.626	36.043	1.00	0.00	C
ATOM	8769	CB	ILE	922	2.623	76.981	34.703	1.00	0.00	C
ATOM	8770	CG1	ILE	922	1.323	77.518	34.078	1.00	0.00	C
ATOM	8771	CG2	ILE	922	2.643	75.457	34.869	1.00	0.00	C
ATOM	8772	CD1	ILE	922	1.145	77.142	32.607	1.00	0.00	C
ATOM	8773	C	ILE	922	1.813	77.144	36.998	1.00	0.00	C
ATOM	8774	O	ILE	922	0.695	77.649	36.985	1.00	0.00	O
ATOM	8775	N	GLU	923	2.115	76.112	37.810	1.00	0.00	N
ATOM	8776	HN	GLU	923	3.062	75.735	37.842	1.00	0.00	H
ATOM	8777	CA	GLU	923	1.073	75.553	38.631	1.00	0.00	C
ATOM	8778	CB	GLU	923	1.597	74.433	39.547	1.00	0.00	C
ATOM	8779	CG	GLU	923	2.267	73.278	38.790	1.00	0.00	C
ATOM	8780	CD	GLU	923	1.256	72.608	37.870	1.00	0.00	C
ATOM	8781	OE1	GLU	923	0.595	73.336	37.084	1.00	0.00	O
ATOM	8782	OE2	GLU	923	1.139	71.355	37.939	1.00	0.00	O
ATOM	8783	C	GLU	923	0.463	76.611	39.511	1.00	0.00	C
ATOM	8784	O	GLU	923	-0.692	76.986	39.311	1.00	0.00	O
ATOM	8785	N	LYS	924	1.260	77.176	40.441	1.00	0.00	N
ATOM	8786	HN	LYS	924	2.213	76.820	40.513	1.00	0.00	H
ATOM	8787	CA	LYS	924	0.884	78.246	41.349	1.00	0.00	C
ATOM	8788	CB	LYS	924	1.233	79.635	40.786	1.00	0.00	C
ATOM	8789	CG	LYS	924	0.670	79.918	39.392	1.00	0.00	C
ATOM	8790	CD	LYS	924	-0.855	80.024	39.339	1.00	0.00	C
ATOM	8791	CE	LYS	924	-1.373	80.618	38.028	1.00	0.00	C
ATOM	8792	NZ	LYS	924	-0.965	79.771	36.888	1.00	0.00	N
ATOM	8793	HZ1	LYS	924	-1.310	80.167	36.014	1.00	0.00	H
ATOM	8794	HZ2	LYS	924	-1.258	78.802	37.009	1.00	0.00	H
ATOM	8795	HZ3	LYS	924	0.044	79.621	36.866	1.00	0.00	H
ATOM	8796	C	LYS	924	-0.567	78.277	41.832	1.00	0.00	C
ATOM	8797	O	LYS	924	-1.310	77.302	41.725	1.00	0.00	O
ATOM	8798	N	THR	925	-0.957	79.397	42.522	1.00	0.00	N
ATOM	8799	HN	THR	925	-0.247	80.102	42.718	1.00	0.00	H
ATOM	8800	CA	THR	925	-2.312	79.654	42.996	1.00	0.00	C
ATOM	8801	CB	THR	925	-2.505	79.336	44.455	1.00	0.00	C
ATOM	8802	OG1	THR	925	-1.638	80.109	45.274	1.00	0.00	O
ATOM	8803	HG1	THR	925	-1.820	81.033	45.146	1.00	0.00	H

ATOM	8804	CG2	THR	925	-2.212	77.848	44.661	1.00	0.00	C
ATOM	8805	C	THR	925	-2.656	81.124	42.814	1.00	0.00	C
ATOM	8806	O	THR	925	-2.242	81.964	43.610	1.00	0.00	O
ATOM	8807	N	PRO	926	-3.492	81.456	41.856	1.00	0.00	N
ATOM	8808	CA	PRO	926	-3.803	82.831	41.496	1.00	0.00	C
ATOM	8809	CD	PRO	926	-4.522	80.532	41.418	1.00	0.00	C
ATOM	8810	CB	PRO	926	-4.979	82.744	40.526	1.00	0.00	C
ATOM	8811	CG	PRO	926	-5.670	81.426	40.920	1.00	0.00	C
ATOM	8812	C	PRO	926	-4.095	83.733	42.654	1.00	0.00	C
ATOM	8813	O	PRO	926	-3.621	84.867	42.673	1.00	0.00	O
ATOM	8814	N	LEU	927	-4.929	83.288	43.592	1.00	0.00	N
ATOM	8815	HN	LEU	927	-5.431	82.414	43.437	1.00	0.00	H
ATOM	8816	CA	LEU	927	-5.139	84.005	44.811	1.00	0.00	C
ATOM	8817	CB	LEU	927	-3.812	84.415	45.481	1.00	0.00	C
ATOM	8818	CG	LEU	927	-2.957	83.221	45.945	1.00	0.00	C
ATOM	8819	CD1	LEU	927	-1.652	83.688	46.607	1.00	0.00	C
ATOM	8820	CD2	LEU	927	-3.764	82.271	46.841	1.00	0.00	C
ATOM	8821	C	LEU	927	-5.991	85.245	44.650	1.00	0.00	C
ATOM	8822	O	LEU	927	-6.762	85.532	45.562	1.00	0.00	O
ATOM	8823	N	ILE	928	-5.900	86.017	43.532	1.00	0.00	N
ATOM	8824	HN	ILE	928	-5.236	85.774	42.797	1.00	0.00	H
ATOM	8825	CA	ILE	928	-6.751	87.189	43.387	1.00	0.00	C
ATOM	8826	CB	ILE	928	-6.271	88.360	44.207	1.00	0.00	C
ATOM	8827	CG1	ILE	928	-4.770	88.564	43.964	1.00	0.00	C
ATOM	8828	CG2	ILE	928	-6.706	88.253	45.674	1.00	0.00	C
ATOM	8829	CD1	ILE	928	-4.217	89.779	44.696	1.00	0.00	C
ATOM	8830	C	ILE	928	-6.821	87.693	41.969	1.00	0.00	C
ATOM	8831	O	ILE	928	-6.264	88.756	41.674	1.00	0.00	O
ATOM	8832	N	ASP	929	-7.472	86.953	41.042	1.00	0.00	N
ATOM	8833	HN	ASP	929	-7.851	86.037	41.284	1.00	0.00	H
ATOM	8834	CA	ASP	929	-7.622	87.477	39.708	1.00	0.00	C
ATOM	8835	CB	ASP	929	-7.927	86.388	38.668	1.00	0.00	C
ATOM	8836	CG	ASP	929	-6.722	85.475	38.531	1.00	0.00	C
ATOM	8837	OD1	ASP	929	-5.664	85.785	39.139	1.00	0.00	O
ATOM	8838	OD2	ASP	929	-6.847	84.449	37.812	1.00	0.00	O
ATOM	8839	C	ASP	929	-8.761	88.436	39.597	1.00	0.00	C
ATOM	8840	O	ASP	929	-8.609	89.652	39.491	1.00	0.00	O
ATOM	8841	N	SER	930	-9.972	87.860	39.708	1.00	0.00	N
ATOM	8842	HN	SER	930	-10.027	86.865	39.928	1.00	0.00	H
ATOM	8843	CA	SER	930	-11.183	88.596	39.528	1.00	0.00	C
ATOM	8844	CB	SER	930	-11.859	88.358	38.166	1.00	0.00	C
ATOM	8845	OG	SER	930	-13.052	89.121	38.069	1.00	0.00	O
ATOM	8846	HG	SER	930	-13.469	88.974	37.228	1.00	0.00	H
ATOM	8847	C	SER	930	-12.091	88.070	40.563	1.00	0.00	C
ATOM	8848	O	SER	930	-11.833	87.011	41.124	1.00	0.00	O
ATOM	8849	N	TYR	931	-13.129	88.843	40.899	1.00	0.00	N
ATOM	8850	HN	TYR	931	-13.235	89.756	40.458	1.00	0.00	H
ATOM	8851	CA	TYR	931	-14.090	88.418	41.860	1.00	0.00	C
ATOM	8852	CB	TYR	931	-13.663	88.593	43.339	1.00	0.00	C
ATOM	8853	CG	TYR	931	-12.465	87.764	43.662	1.00	0.00	C
ATOM	8854	CD1	TYR	931	-12.556	86.392	43.692	1.00	0.00	C
ATOM	8855	CD2	TYR	931	-11.256	88.355	43.957	1.00	0.00	C
ATOM	8856	CE1	TYR	931	-11.460	85.620	43.990	1.00	0.00	C
ATOM	8857	CE2	TYR	931	-10.155	87.588	44.257	1.00	0.00	C
ATOM	8858	CZ	TYR	931	-10.257	86.217	44.272	1.00	0.00	C
ATOM	8859	OH	TYR	931	-9.138	85.415	44.577	1.00	0.00	O
ATOM	8860	HH	TYR	931	-8.305	85.828	44.772	1.00	0.00	H
ATOM	8861	C	TYR	931	-15.218	89.375	41.692	1.00	0.00	C
ATOM	8862	O	TYR	931	-15.278	90.126	40.717	1.00	0.00	O
ATOM	8863	N	SER	932	-16.139	89.364	42.662	1.00	0.00	N
ATOM	8864	HN	SER	932	-16.066	88.647	43.384	1.00	0.00	H
ATOM	8865	CA	SER	932	-17.219	90.297	42.748	1.00	0.00	C
ATOM	8866	CB	SER	932	-18.598	89.626	42.831	1.00	0.00	C
ATOM	8867	OG	SER	932	-19.613	90.614	42.916	1.00	0.00	O
ATOM	8868	HG	SER	932	-20.466	90.199	42.967	1.00	0.00	H
ATOM	8869	C	SER	932	-16.960	90.936	44.065	1.00	0.00	C
ATOM	8870	O	SER	932	-16.513	92.078	44.140	1.00	0.00	O
ATOM	8871	N	THR	933	-17.341	90.218	45.135	1.00	0.00	N
ATOM	8872	HN	THR	933	-17.940	89.410	44.966	1.00	0.00	H
ATOM	8873	CA	THR	933	-16.978	90.491	46.491	1.00	0.00	C
ATOM	8874	CB	THR	933	-15.528	90.193	46.649	1.00	0.00	C
ATOM	8875	OG1	THR	933	-15.210	88.983	45.978	1.00	0.00	O
ATOM	8876	HG1	THR	933	-14.285	88.793	46.079	1.00	0.00	H
ATOM	8877	CG2	THR	933	-15.323	89.907	48.123	1.00	0.00	C

ATOM	8878	C	THR	933	-17.268	91.929	46.767	1.00	0.00	C
ATOM	8879	O	THR	933	-16.635	92.568	47.609	1.00	0.00	O
ATOM	8880	N	GLU	934	-18.277	92.442	46.047	1.00	0.00	N
ATOM	8881	HN	GLU	934	-18.782	91.806	45.430	1.00	0.00	H
ATOM	8882	CA	GLU	934	-18.703	93.806	46.072	1.00	0.00	C
ATOM	8883	CB	GLU	934	-17.578	94.823	46.378	1.00	0.00	C
ATOM	8884	CG	GLU	934	-16.318	94.702	45.515	1.00	0.00	C
ATOM	8885	CD	GLU	934	-16.473	95.595	44.294	1.00	0.00	C
ATOM	8886	OE1	GLU	934	-16.232	96.825	44.429	1.00	0.00	O
ATOM	8887	OE2	GLU	934	-16.851	95.064	43.217	1.00	0.00	O
ATOM	8888	C	GLU	934	-19.250	94.027	44.708	1.00	0.00	C
ATOM	8889	O	GLU	934	-19.544	93.057	44.018	1.00	0.00	O
ATOM	8890	N	GLY	935	-19.270	95.279	44.223	1.00	0.00	N
ATOM	8891	HN	GLY	935	-18.775	96.014	44.728	1.00	0.00	H
ATOM	8892	CA	GLY	935	-19.965	95.611	43.018	1.00	0.00	C
ATOM	8893	C	GLY	935	-19.777	97.078	42.865	1.00	0.00	C
ATOM	8894	O	GLY	935	-20.432	97.728	42.051	1.00	0.00	O
ATOM	8895	N	LEU	936	-18.849	97.623	43.679	1.00	0.00	N
ATOM	8896	HN	LEU	936	-18.384	97.029	44.365	1.00	0.00	H
ATOM	8897	CA	LEU	936	-18.496	99.012	43.610	1.00	0.00	C
ATOM	8898	CB	LEU	936	-17.840	99.395	42.261	1.00	0.00	C
ATOM	8899	CG	LEU	936	-17.082	100.750	42.180	1.00	0.00	C
ATOM	8900	CD1	LEU	936	-16.669	101.041	40.728	1.00	0.00	C
ATOM	8901	CD2	LEU	936	-17.782	101.944	42.852	1.00	0.00	C
ATOM	8902	C	LEU	936	-19.771	99.774	43.747	1.00	0.00	C
ATOM	8903	O	LEU	936	-20.134	100.589	42.903	1.00	0.00	O
ATOM	8904	N	MET	937	-20.513	99.502	44.830	1.00	0.00	N
ATOM	8905	HN	MET	937	-20.192	98.820	45.518	1.00	0.00	H
ATOM	8906	CA	MET	937	-21.759	100.179	45.009	1.00	0.00	C
ATOM	8907	CB	MET	937	-22.485	99.740	46.289	1.00	0.00	C
ATOM	8908	CG	MET	937	-22.864	98.261	46.180	1.00	0.00	C
ATOM	8909	SD	MET	937	-23.517	97.463	47.672	1.00	0.00	S
ATOM	8910	CE	MET	937	-23.239	95.800	46.993	1.00	0.00	C
ATOM	8911	C	MET	937	-21.498	101.653	45.018	1.00	0.00	C
ATOM	8912	O	MET	937	-20.439	102.145	45.407	1.00	0.00	O
ATOM	8913	N	PRO	938	-22.496	102.343	44.552	1.00	0.00	N
ATOM	8914	CA	PRO	938	-22.421	103.763	44.348	1.00	0.00	C
ATOM	8915	CD	PRO	938	-23.440	101.716	43.640	1.00	0.00	C
ATOM	8916	CB	PRO	938	-23.678	104.131	43.564	1.00	0.00	C
ATOM	8917	CG	PRO	938	-23.989	102.854	42.764	1.00	0.00	C
ATOM	8918	C	PRO	938	-22.236	104.548	45.603	1.00	0.00	C
ATOM	8919	O	PRO	938	-22.124	105.770	45.499	1.00	0.00	O
ATOM	8920	N	ASN	939	-22.260	103.895	46.785	1.00	0.00	N
ATOM	8921	HN	ASN	939	-22.397	102.884	46.807	1.00	0.00	H
ATOM	8922	CA	ASN	939	-22.093	104.624	48.013	1.00	0.00	C
ATOM	8923	CB	ASN	939	-23.294	104.438	48.944	1.00	0.00	C
ATOM	8924	CG	ASN	939	-23.366	102.948	49.245	1.00	0.00	C
ATOM	8925	OD1	ASN	939	-23.743	102.146	48.392	1.00	0.00	O
ATOM	8926	ND2	ASN	939	-22.972	102.565	50.489	1.00	0.00	N
ATOM	8927	1HD2	ASN	939	-23.020	101.566	50.691	1.00	0.00	H
ATOM	8928	2HD2	ASN	939	-22.659	103.230	51.196	1.00	0.00	H
ATOM	8929	C	ASN	939	-20.901	104.099	48.772	1.00	0.00	C
ATOM	8930	O	ASN	939	-20.693	104.457	49.931	1.00	0.00	O
ATOM	8931	N	THR	940	-20.056	103.288	48.113	1.00	0.00	N
ATOM	8932	HN	THR	940	-20.251	103.110	47.128	1.00	0.00	H
ATOM	8933	CA	THR	940	-18.898	102.649	48.682	1.00	0.00	C
ATOM	8934	CB	THR	940	-18.324	101.598	47.780	1.00	0.00	C
ATOM	8935	OG1	THR	940	-19.334	100.664	47.424	1.00	0.00	O
ATOM	8936	HG1	THR	940	-18.970	99.998	46.852	1.00	0.00	H
ATOM	8937	CG2	THR	940	-17.221	100.857	48.551	1.00	0.00	C
ATOM	8938	C	THR	940	-17.847	103.693	48.922	1.00	0.00	C
ATOM	8939	O	THR	940	-16.769	103.409	49.438	1.00	0.00	O
ATOM	8940	N	LEU	941	-18.125	104.922	48.463	1.00	0.00	N
ATOM	8941	HN	LEU	941	-19.056	105.061	48.069	1.00	0.00	H
ATOM	8942	CA	LEU	941	-17.254	106.063	48.466	1.00	0.00	C
ATOM	8943	CB	LEU	941	-17.849	107.278	47.732	1.00	0.00	C
ATOM	8944	CG	LEU	941	-18.023	107.058	46.217	1.00	0.00	C
ATOM	8945	CD1	LEU	941	-19.108	106.012	45.918	1.00	0.00	C
ATOM	8946	CD2	LEU	941	-18.241	108.390	45.480	1.00	0.00	C
ATOM	8947	C	LEU	941	-16.824	106.541	49.830	1.00	0.00	C
ATOM	8948	O	LEU	941	-15.802	107.221	49.904	1.00	0.00	O
ATOM	8949	N	GLU	942	-17.559	106.258	50.931	1.00	0.00	N
ATOM	8950	HN	GLU	942	-18.348	105.616	50.863	1.00	0.00	H
ATOM	8951	CA	GLU	942	-17.230	106.864	52.209	1.00	0.00	C

ATOM	8952	CB	GLU	942	-18.050	106.286	53.376	1.00	0.00	C
ATOM	8953	CG	GLU	942	-19.457	106.872	53.489	1.00	0.00	C
ATOM	8954	CD	GLU	942	-19.313	108.198	54.222	1.00	0.00	C
ATOM	8955	OE1	GLU	942	-18.333	108.328	55.004	1.00	0.00	O
ATOM	8956	OE2	GLU	942	-20.171	109.097	54.014	1.00	0.00	O
ATOM	8957	C	GLU	942	-15.775	106.688	52.566	1.00	0.00	C
ATOM	8958	O	GLU	942	-15.057	107.682	52.659	1.00	0.00	O
ATOM	8959	N	GLY	943	-15.264	105.446	52.679	1.00	0.00	N
ATOM	8960	HN	GLY	943	-15.864	104.626	52.588	1.00	0.00	H
ATOM	8961	CA	GLY	943	-13.855	105.300	52.931	1.00	0.00	C
ATOM	8962	C	GLY	943	-13.477	105.296	54.389	1.00	0.00	C
ATOM	8963	O	GLY	943	-12.422	105.824	54.744	1.00	0.00	O
ATOM	8964	N	ASN	944	-14.313	104.720	55.280	1.00	0.00	N
ATOM	8965	HN	ASN	944	-15.225	104.379	54.975	1.00	0.00	H
ATOM	8966	CA	ASN	944	-13.921	104.585	56.663	1.00	0.00	C
ATOM	8967	CB	ASN	944	-15.097	104.593	57.658	1.00	0.00	C
ATOM	8968	CG	ASN	944	-15.600	106.017	57.842	1.00	0.00	C
ATOM	8969	OD1	ASN	944	-16.140	106.629	56.922	1.00	0.00	O
ATOM	8970	ND2	ASN	944	-15.428	106.557	59.079	1.00	0.00	N
ATOM	8971	1HD2	ASN	944	-15.765	107.512	59.202	1.00	0.00	H
ATOM	8972	2HD2	ASN	944	-14.980	106.049	59.842	1.00	0.00	H
ATOM	8973	C	ASN	944	-13.264	103.236	56.789	1.00	0.00	C
ATOM	8974	O	ASN	944	-13.865	102.220	56.446	1.00	0.00	O
ATOM	8975	N	VAL	945	-12.008	103.186	57.292	1.00	0.00	N
ATOM	8976	HN	VAL	945	-11.571	104.042	57.634	1.00	0.00	H
ATOM	8977	CA	VAL	945	-11.277	101.943	57.353	1.00	0.00	C
ATOM	8978	CB	VAL	945	-9.809	102.120	57.083	1.00	0.00	C
ATOM	8979	CG1	VAL	945	-9.108	100.763	57.254	1.00	0.00	C
ATOM	8980	CG2	VAL	945	-9.635	102.746	55.686	1.00	0.00	C
ATOM	8981	C	VAL	945	-11.412	101.290	58.703	1.00	0.00	C
ATOM	8982	O	VAL	945	-11.296	101.938	59.743	1.00	0.00	O
ATOM	8983	N	THR	946	-11.640	99.955	58.729	1.00	0.00	N
ATOM	8984	HN	THR	946	-11.712	99.418	57.865	1.00	0.00	H
ATOM	8985	CA	THR	946	-11.777	99.317	60.008	1.00	0.00	C
ATOM	8986	CB	THR	946	-13.160	98.789	60.268	1.00	0.00	C
ATOM	8987	OG1	THR	946	-13.480	97.759	59.347	1.00	0.00	O
ATOM	8988	HG1	THR	946	-12.861	97.044	59.436	1.00	0.00	H
ATOM	8989	CG2	THR	946	-14.162	99.947	60.124	1.00	0.00	C
ATOM	8990	C	THR	946	-10.816	98.176	60.146	1.00	0.00	C
ATOM	8991	O	THR	946	-10.768	97.280	59.310	1.00	0.00	O
ATOM	8992	N	PHE	947	-10.002	98.179	61.220	1.00	0.00	N
ATOM	8993	HN	PHE	947	-10.010	98.971	61.863	1.00	0.00	H
ATOM	8994	CA	PHE	947	-9.124	97.069	61.460	1.00	0.00	C
ATOM	8995	CB	PHE	947	-7.626	97.408	61.582	1.00	0.00	C
ATOM	8996	CG	PHE	947	-7.006	97.375	60.228	1.00	0.00	C
ATOM	8997	CD1	PHE	947	-6.835	96.161	59.605	1.00	0.00	C
ATOM	8998	CD2	PHE	947	-6.565	98.515	59.596	1.00	0.00	C
ATOM	8999	CE1	PHE	947	-6.258	96.078	58.361	1.00	0.00	C
ATOM	9000	CE2	PHE	947	-5.985	98.437	58.349	1.00	0.00	C
ATOM	9001	CZ	PHE	947	-5.832	97.219	57.728	1.00	0.00	C
ATOM	9002	C	PHE	947	-9.511	96.430	62.750	1.00	0.00	C
ATOM	9003	O	PHE	947	-9.519	97.068	63.803	1.00	0.00	O
ATOM	9004	N	GLY	948	-9.816	95.119	62.704	1.00	0.00	N
ATOM	9005	HN	GLY	948	-9.768	94.593	61.831	1.00	0.00	H
ATOM	9006	CA	GLY	948	-10.210	94.495	63.927	1.00	0.00	C
ATOM	9007	C	GLY	948	-9.511	93.183	64.075	1.00	0.00	C
ATOM	9008	O	GLY	948	-9.497	92.343	63.177	1.00	0.00	O
ATOM	9009	N	GLU	949	-8.897	93.011	65.255	1.00	0.00	N
ATOM	9010	HN	GLU	949	-8.878	93.816	65.881	1.00	0.00	H
ATOM	9011	CA	GLU	949	-8.266	91.817	65.727	1.00	0.00	C
ATOM	9012	CB	GLU	949	-9.195	90.595	65.620	1.00	0.00	C
ATOM	9013	CG	GLU	949	-8.695	89.374	66.391	1.00	0.00	C
ATOM	9014	CD	GLU	949	-8.985	89.617	67.864	1.00	0.00	C
ATOM	9015	OE1	GLU	949	-10.174	89.873	68.193	1.00	0.00	O
ATOM	9016	OE2	GLU	949	-8.025	89.553	68.677	1.00	0.00	O
ATOM	9017	C	GLU	949	-7.022	91.516	64.959	1.00	0.00	C
ATOM	9018	O	GLU	949	-6.175	90.798	65.487	1.00	0.00	O
ATOM	9019	N	VAL	950	-6.810	92.215	63.819	1.00	0.00	N
ATOM	9020	HN	VAL	950	-7.445	92.991	63.631	1.00	0.00	H
ATOM	9021	CA	VAL	950	-5.775	91.971	62.843	1.00	0.00	C
ATOM	9022	CB	VAL	950	-5.435	93.216	62.075	1.00	0.00	C
ATOM	9023	CG1	VAL	950	-4.268	92.920	61.122	1.00	0.00	C
ATOM	9024	CG2	VAL	950	-6.711	93.718	61.376	1.00	0.00	C
ATOM	9025	C	VAL	950	-4.509	91.450	63.461	1.00	0.00	C

ATOM	9026	O	VAL	950	-3.809	92.144	64.197	1.00	0.00	O
ATOM	9027	N	VAL	951	-4.208	90.167	63.163	1.00	0.00	N
ATOM	9028	HN	VAL	951	-4.851	89.647	62.566	1.00	0.00	H
ATOM	9029	CA	VAL	951	-3.029	89.495	63.642	1.00	0.00	C
ATOM	9030	CB	VAL	951	-3.348	88.396	64.609	1.00	0.00	C
ATOM	9031	CG1	VAL	951	-4.381	87.478	63.948	1.00	0.00	C
ATOM	9032	CG2	VAL	951	-2.048	87.680	65.011	1.00	0.00	C
ATOM	9033	C	VAL	951	-2.360	88.899	62.435	1.00	0.00	C
ATOM	9034	O	VAL	951	-3.030	88.279	61.610	1.00	0.00	O
ATOM	9035	N	PHE	952	-1.022	89.071	62.284	1.00	0.00	N
ATOM	9036	HN	PHE	952	-0.462	89.532	63.001	1.00	0.00	H
ATOM	9037	CA	PHE	952	-0.426	88.576	61.070	1.00	0.00	C
ATOM	9038	CB	PHE	952	-1.006	89.328	59.858	1.00	0.00	C
ATOM	9039	CG	PHE	952	-0.102	89.195	58.687	1.00	0.00	C
ATOM	9040	CD1	PHE	952	-0.084	88.059	57.913	1.00	0.00	C
ATOM	9041	CD2	PHE	952	0.722	90.247	58.361	1.00	0.00	C
ATOM	9042	CE1	PHE	952	0.762	87.973	56.832	1.00	0.00	C
ATOM	9043	CE2	PHE	952	1.569	90.166	57.282	1.00	0.00	C
ATOM	9044	CZ	PHE	952	1.589	89.025	56.515	1.00	0.00	C
ATOM	9045	C	PHE	952	1.077	88.709	61.024	1.00	0.00	C
ATOM	9046	O	PHE	952	1.657	89.632	61.599	1.00	0.00	O
ATOM	9047	N	ASN	953	1.741	87.754	60.315	1.00	0.00	N
ATOM	9048	HN	ASN	953	1.202	86.981	59.926	1.00	0.00	H
ATOM	9049	CA	ASN	953	3.165	87.777	60.085	1.00	0.00	C
ATOM	9050	CB	ASN	953	3.980	86.893	61.043	1.00	0.00	C
ATOM	9051	CG	ASN	953	5.446	87.064	60.666	1.00	0.00	C
ATOM	9052	OD1	ASN	953	6.020	86.244	59.950	1.00	0.00	O
ATOM	9053	ND2	ASN	953	6.066	88.179	61.137	1.00	0.00	N
ATOM	9054	1HD2	ASN	953	5.590	88.859	61.730	1.00	0.00	H
ATOM	9055	2HD2	ASN	953	7.048	88.293	60.885	1.00	0.00	H
ATOM	9056	C	ASN	953	3.450	87.278	58.689	1.00	0.00	C
ATOM	9057	O	ASN	953	3.145	86.135	58.349	1.00	0.00	O
ATOM	9058	N	TYR	954	4.108	88.114	57.855	1.00	0.00	N
ATOM	9059	HN	TYR	954	4.416	89.025	58.196	1.00	0.00	H
ATOM	9060	CA	TYR	954	4.381	87.736	56.491	1.00	0.00	C
ATOM	9061	CB	TYR	954	5.122	88.814	55.672	1.00	0.00	C
ATOM	9062	CG	TYR	954	6.415	89.131	56.343	1.00	0.00	C
ATOM	9063	CD1	TYR	954	6.430	89.912	57.475	1.00	0.00	C
ATOM	9064	CD2	TYR	954	7.608	88.671	55.832	1.00	0.00	C
ATOM	9065	CE1	TYR	954	7.615	90.216	58.102	1.00	0.00	C
ATOM	9066	CE2	TYR	954	8.795	88.973	56.455	1.00	0.00	C
ATOM	9067	CZ	TYR	954	8.800	89.746	57.591	1.00	0.00	C
ATOM	9068	OH	TYR	954	10.019	90.056	58.231	1.00	0.00	O
ATOM	9069	HH	TYR	954	10.839	89.731	57.878	1.00	0.00	H
ATOM	9070	C	TYR	954	5.201	86.504	56.524	1.00	0.00	C
ATOM	9071	O	TYR	954	6.183	86.435	57.257	1.00	0.00	O
ATOM	9072	N	PRO	955	4.802	85.570	55.689	1.00	0.00	N
ATOM	9073	CA	PRO	955	5.306	84.217	55.670	1.00	0.00	C
ATOM	9074	CD	PRO	955	4.156	85.927	54.438	1.00	0.00	C
ATOM	9075	CB	PRO	955	4.962	83.651	54.291	1.00	0.00	C
ATOM	9076	CG	PRO	955	3.862	84.582	53.753	1.00	0.00	C
ATOM	9077	C	PRO	955	6.769	84.124	55.944	1.00	0.00	C
ATOM	9078	O	PRO	955	7.585	84.181	55.027	1.00	0.00	O
ATOM	9079	N	THR	956	7.061	83.985	57.245	1.00	0.00	N
ATOM	9080	HN	THR	956	6.246	84.012	57.858	1.00	0.00	H
ATOM	9081	CA	THR	956	8.299	83.806	57.932	1.00	0.00	C
ATOM	9082	CB	THR	956	9.161	85.036	57.984	1.00	0.00	C
ATOM	9083	OG1	THR	956	8.538	86.043	58.769	1.00	0.00	O
ATOM	9084	HG1	THR	956	8.406	85.711	59.649	1.00	0.00	H
ATOM	9085	CG2	THR	956	9.373	85.570	56.568	1.00	0.00	C
ATOM	9086	C	THR	956	7.757	83.702	59.318	1.00	0.00	C
ATOM	9087	O	THR	956	8.438	83.976	60.305	1.00	0.00	O
ATOM	9088	N	ARG	957	6.522	83.174	59.386	1.00	0.00	N
ATOM	9089	HN	ARG	957	6.180	82.727	58.536	1.00	0.00	H
ATOM	9090	CA	ARG	957	5.626	83.162	60.508	1.00	0.00	C
ATOM	9091	CB	ARG	957	4.394	82.275	60.253	1.00	0.00	C
ATOM	9092	CG	ARG	957	3.514	82.794	59.114	1.00	0.00	C
ATOM	9093	CD	ARG	957	2.453	81.802	58.631	1.00	0.00	C
ATOM	9094	NE	ARG	957	1.274	81.912	59.533	1.00	0.00	N
ATOM	9095	HE	ARG	957	0.549	82.604	59.344	1.00	0.00	H
ATOM	9096	CZ	ARG	957	1.165	81.086	60.613	1.00	0.00	C
ATOM	9097	NH1	ARG	957	2.138	80.162	60.863	1.00	0.00	N
ATOM	9098	1HH1	ARG	957	2.056	79.544	61.671	1.00	0.00	H
ATOM	9099	2HH1	ARG	957	2.947	80.090	60.246	1.00	0.00	H

ATOM	9100	NH2	ARG	957	0.082	81.182	61.439	1.00	0.00	N
ATOM	9101	1HH2	ARG	957	0.000	80.564	62.247	1.00	0.00	H
ATOM	9102	2HH2	ARG	957	-0.645	81.873	61.252	1.00	0.00	H
ATOM	9103	C	ARG	957	6.304	82.660	61.745	1.00	0.00	C
ATOM	9104	O	ARG	957	5.879	83.058	62.828	1.00	0.00	O
ATOM	9105	N	PRO	958	7.293	81.813	61.712	1.00	0.00	N
ATOM	9106	CA	PRO	958	7.903	81.402	62.947	1.00	0.00	C
ATOM	9107	CD	PRO	958	7.447	80.786	60.696	1.00	0.00	C
ATOM	9108	CB	PRO	958	8.902	80.302	62.570	1.00	0.00	C
ATOM	9109	CG	PRO	958	8.820	80.193	61.032	1.00	0.00	C
ATOM	9110	C	PRO	958	8.483	82.569	63.687	1.00	0.00	C
ATOM	9111	O	PRO	958	8.696	82.472	64.895	1.00	0.00	O
ATOM	9112	N	ASP	959	8.737	83.676	62.975	1.00	0.00	N
ATOM	9113	HN	ASP	959	8.547	83.641	61.974	1.00	0.00	H
ATOM	9114	CA	ASP	959	9.253	84.904	63.502	1.00	0.00	C
ATOM	9115	CB	ASP	959	9.608	85.923	62.403	1.00	0.00	C
ATOM	9116	CG	ASP	959	10.375	87.075	63.040	1.00	0.00	C
ATOM	9117	OD1	ASP	959	10.742	86.953	64.239	1.00	0.00	O
ATOM	9118	OD2	ASP	959	10.607	88.091	62.333	1.00	0.00	O
ATOM	9119	C	ASP	959	8.171	85.497	64.352	1.00	0.00	C
ATOM	9120	O	ASP	959	8.337	86.559	64.950	1.00	0.00	O
ATOM	9121	N	ILE	960	6.971	84.889	64.340	1.00	0.00	N
ATOM	9122	HN	ILE	960	6.833	84.038	63.796	1.00	0.00	H
ATOM	9123	CA	ILE	960	5.888	85.445	65.097	1.00	0.00	C
ATOM	9124	CB	ILE	960	6.216	85.814	66.518	1.00	0.00	C
ATOM	9125	CG1	ILE	960	6.592	84.561	67.329	1.00	0.00	C
ATOM	9126	CG2	ILE	960	5.009	86.575	67.094	1.00	0.00	C
ATOM	9127	CD1	ILE	960	7.208	84.884	68.688	1.00	0.00	C
ATOM	9128	C	ILE	960	5.453	86.666	64.359	1.00	0.00	C
ATOM	9129	O	ILE	960	6.230	87.280	63.630	1.00	0.00	O
ATOM	9130	N	PRO	961	4.185	86.952	64.457	1.00	0.00	N
ATOM	9131	CA	PRO	961	3.640	88.093	63.763	1.00	0.00	C
ATOM	9132	CD	PRO	961	3.229	85.856	64.530	1.00	0.00	C
ATOM	9133	CB	PRO	961	2.131	87.861	63.737	1.00	0.00	C
ATOM	9134	CG	PRO	961	1.989	86.333	63.761	1.00	0.00	C
ATOM	9135	C	PRO	961	3.998	89.444	64.319	1.00	0.00	C
ATOM	9136	O	PRO	961	4.242	89.565	65.518	1.00	0.00	O
ATOM	9137	N	VAL	962	4.093	90.451	63.423	1.00	0.00	N
ATOM	9138	HN	VAL	962	4.016	90.198	62.438	1.00	0.00	H
ATOM	9139	CA	VAL	962	4.292	91.843	63.720	1.00	0.00	C
ATOM	9140	CB	VAL	962	4.839	92.635	62.565	1.00	0.00	C
ATOM	9141	CG1	VAL	962	6.277	92.162	62.299	1.00	0.00	C
ATOM	9142	CG2	VAL	962	3.920	92.457	61.351	1.00	0.00	C
ATOM	9143	C	VAL	962	2.993	92.441	64.171	1.00	0.00	C
ATOM	9144	O	VAL	962	2.985	93.510	64.779	1.00	0.00	O
ATOM	9145	N	LEU	963	1.851	91.824	63.789	1.00	0.00	N
ATOM	9146	HN	LEU	963	1.887	91.000	63.189	1.00	0.00	H
ATOM	9147	CA	LEU	963	0.585	92.341	64.236	1.00	0.00	C
ATOM	9148	CB	LEU	963	-0.445	92.614	63.119	1.00	0.00	C
ATOM	9149	CG	LEU	963	-0.007	93.621	62.039	1.00	0.00	C
ATOM	9150	CD1	LEU	963	0.397	94.969	62.653	1.00	0.00	C
ATOM	9151	CD2	LEU	963	1.044	93.018	61.098	1.00	0.00	C
ATOM	9152	C	LEU	963	-0.049	91.292	65.090	1.00	0.00	C
ATOM	9153	O	LEU	963	-0.439	90.238	64.593	1.00	0.00	O
ATOM	9154	N	GLN	964	-0.177	91.539	66.408	1.00	0.00	N
ATOM	9155	HN	GLN	964	0.174	92.402	66.823	1.00	0.00	H
ATOM	9156	CA	GLN	964	-0.825	90.541	67.202	1.00	0.00	C
ATOM	9157	CB	GLN	964	0.106	89.825	68.200	1.00	0.00	C
ATOM	9158	CG	GLN	964	0.745	90.734	69.249	1.00	0.00	C
ATOM	9159	CD	GLN	964	1.466	89.843	70.250	1.00	0.00	C
ATOM	9160	OE1	GLN	964	2.225	88.951	69.875	1.00	0.00	O
ATOM	9161	NE2	GLN	964	1.213	90.083	71.564	1.00	0.00	N
ATOM	9162	1HE2	GLN	964	0.583	90.823	71.875	1.00	0.00	H
ATOM	9163	2HE2	GLN	964	1.696	89.486	72.235	1.00	0.00	H
ATOM	9164	C	GLN	964	-1.956	91.179	67.949	1.00	0.00	C
ATOM	9165	O	GLN	964	-1.762	91.801	68.993	1.00	0.00	O
ATOM	9166	N	GLY	965	-3.192	90.993	67.437	1.00	0.00	N
ATOM	9167	HN	GLY	965	-3.302	90.462	66.573	1.00	0.00	H
ATOM	9168	CA	GLY	965	-4.353	91.530	68.087	1.00	0.00	C
ATOM	9169	C	GLY	965	-4.431	93.014	67.901	1.00	0.00	C
ATOM	9170	O	GLY	965	-4.578	93.756	68.871	1.00	0.00	O
ATOM	9171	N	LEU	966	-4.344	93.490	66.642	1.00	0.00	N
ATOM	9172	HN	LEU	966	-4.268	92.845	65.856	1.00	0.00	H
ATOM	9173	CA	LEU	966	-4.359	94.910	66.411	1.00	0.00	C

ATOM	9174	CB	LEU	966	-3.362	95.343	65.323	1.00	0.00	C
ATOM	9175	CG	LEU	966	-3.359	96.858	65.063	1.00	0.00	C
ATOM	9176	CD1	LEU	966	-2.891	97.638	66.303	1.00	0.00	C
ATOM	9177	CD2	LEU	966	-2.559	97.202	63.799	1.00	0.00	C
ATOM	9178	C	LEU	966	-5.722	95.355	65.958	1.00	0.00	C
ATOM	9179	O	LEU	966	-6.415	94.632	65.245	1.00	0.00	O
ATOM	9180	N	SER	967	-6.154	96.560	66.404	1.00	0.00	N
ATOM	9181	HN	SER	967	-5.580	97.085	67.064	1.00	0.00	H
ATOM	9182	CA	SER	967	-7.408	97.112	65.964	1.00	0.00	C
ATOM	9183	CB	SER	967	-8.604	96.659	66.817	1.00	0.00	C
ATOM	9184	OG	SER	967	-8.765	95.252	66.710	1.00	0.00	O
ATOM	9185	HG	SER	967	-9.504	94.972	67.237	1.00	0.00	H
ATOM	9186	C	SER	967	-7.355	98.619	66.011	1.00	0.00	C
ATOM	9187	O	SER	967	-7.078	99.218	67.051	1.00	0.00	O
ATOM	9188	N	LEU	968	-7.645	99.270	64.861	1.00	0.00	N
ATOM	9189	HN	LEU	968	-7.867	98.717	64.033	1.00	0.00	H
ATOM	9190	CA	LEU	968	-7.655	100.706	64.748	1.00	0.00	C
ATOM	9191	CB	LEU	968	-6.385	101.296	64.113	1.00	0.00	C
ATOM	9192	CG	LEU	968	-5.075	100.824	64.768	1.00	0.00	C
ATOM	9193	CD1	LEU	968	-5.058	101.104	66.278	1.00	0.00	C
ATOM	9194	CD2	LEU	968	-4.770	99.363	64.406	1.00	0.00	C
ATOM	9195	C	LEU	968	-8.762	101.024	63.791	1.00	0.00	C
ATOM	9196	O	LEU	968	-9.540	100.148	63.419	1.00	0.00	O
ATOM	9197	N	GLU	969	-8.878	102.304	63.386	1.00	0.00	N
ATOM	9198	HN	GLU	969	-8.231	103.011	63.736	1.00	0.00	H
ATOM	9199	CA	GLU	969	-9.912	102.671	62.462	1.00	0.00	C
ATOM	9200	CB	GLU	969	-11.302	102.545	63.114	1.00	0.00	C
ATOM	9201	CG	GLU	969	-12.437	103.289	62.417	1.00	0.00	C
ATOM	9202	CD	GLU	969	-12.720	104.516	63.273	1.00	0.00	C
ATOM	9203	OE1	GLU	969	-11.957	104.734	64.253	1.00	0.00	O
ATOM	9204	OE2	GLU	969	-13.705	105.241	62.972	1.00	0.00	O
ATOM	9205	C	GLU	969	-9.668	104.083	62.026	1.00	0.00	C
ATOM	9206	O	GLU	969	-8.889	104.809	62.643	1.00	0.00	O
ATOM	9207	N	VAL	970	-10.292	104.498	60.905	1.00	0.00	N
ATOM	9208	HN	VAL	970	-10.890	103.859	60.380	1.00	0.00	H
ATOM	9209	CA	VAL	970	-10.105	105.850	60.459	1.00	0.00	C
ATOM	9210	CB	VAL	970	-9.039	105.963	59.399	1.00	0.00	C
ATOM	9211	CG1	VAL	970	-9.494	105.222	58.131	1.00	0.00	C
ATOM	9212	CG2	VAL	970	-8.713	107.446	59.179	1.00	0.00	C
ATOM	9213	C	VAL	970	-11.407	106.345	59.891	1.00	0.00	C
ATOM	9214	O	VAL	970	-12.031	105.681	59.065	1.00	0.00	O
ATOM	9215	N	LYS	971	-11.824	107.562	60.298	1.00	0.00	N
ATOM	9216	HN	LYS	971	-11.230	108.085	60.942	1.00	0.00	H
ATOM	9217	CA	LYS	971	-13.062	108.164	59.873	1.00	0.00	C
ATOM	9218	CB	LYS	971	-13.360	109.503	60.569	1.00	0.00	C
ATOM	9219	CG	LYS	971	-13.544	109.382	62.082	1.00	0.00	C
ATOM	9220	CD	LYS	971	-12.261	108.988	62.816	1.00	0.00	C
ATOM	9221	CE	LYS	971	-12.428	108.864	64.331	1.00	0.00	C
ATOM	9222	NZ	LYS	971	-11.150	108.447	64.946	1.00	0.00	N
ATOM	9223	HZ1	LYS	971	-11.261	108.364	65.957	1.00	0.00	H
ATOM	9224	HZ2	LYS	971	-10.383	109.071	64.695	1.00	0.00	H
ATOM	9225	HZ3	LYS	971	-10.786	107.590	64.530	1.00	0.00	H
ATOM	9226	C	LYS	971	-12.950	108.444	58.409	1.00	0.00	C
ATOM	9227	O	LYS	971	-12.128	107.848	57.715	1.00	0.00	O
ATOM	9228	N	LYS	972	-13.827	109.316	57.871	1.00	0.00	N
ATOM	9229	HN	LYS	972	-14.540	109.775	58.438	1.00	0.00	H
ATOM	9230	CA	LYS	972	-13.710	109.567	56.464	1.00	0.00	C
ATOM	9231	CB	LYS	972	-15.017	109.458	55.662	1.00	0.00	C
ATOM	9232	CG	LYS	972	-15.993	110.606	55.919	1.00	0.00	C
ATOM	9233	CD	LYS	972	-17.010	110.781	54.793	1.00	0.00	C
ATOM	9234	CE	LYS	972	-16.388	111.399	53.537	1.00	0.00	C
ATOM	9235	NZ	LYS	972	-17.359	111.386	52.423	1.00	0.00	N
ATOM	9236	HZ1	LYS	972	-16.945	111.798	51.587	1.00	0.00	H
ATOM	9237	HZ2	LYS	972	-18.235	111.842	52.677	1.00	0.00	H
ATOM	9238	HZ3	LYS	972	-17.722	110.449	52.246	1.00	0.00	H
ATOM	9239	C	LYS	972	-13.194	110.953	56.233	1.00	0.00	C
ATOM	9240	O	LYS	972	-13.141	111.787	57.133	1.00	0.00	O
ATOM	9241	N	GLY	973	-12.705	111.186	55.001	1.00	0.00	N
ATOM	9242	HN	GLY	973	-12.630	110.402	54.353	1.00	0.00	H
ATOM	9243	CA	GLY	973	-12.284	112.482	54.554	1.00	0.00	C
ATOM	9244	C	GLY	973	-11.306	113.076	55.525	1.00	0.00	C
ATOM	9245	O	GLY	973	-11.174	114.297	55.581	1.00	0.00	O
ATOM	9246	N	GLN	974	-10.568	112.246	56.294	1.00	0.00	N
ATOM	9247	HN	GLN	974	-10.628	111.237	56.158	1.00	0.00	H

ATOM	9248	CA	GLN	974	-9.696	112.785	57.306	1.00	0.00	C
ATOM	9249	CB	GLN	974	-10.342	112.750	58.708	1.00	0.00	C
ATOM	9250	CG	GLN	974	-11.082	111.453	59.055	1.00	0.00	C
ATOM	9251	CD	GLN	974	-10.131	110.278	59.158	1.00	0.00	C
ATOM	9252	OE1	GLN	974	-9.495	109.884	58.183	1.00	0.00	O
ATOM	9253	NE2	GLN	974	-10.053	109.681	60.377	1.00	0.00	N
ATOM	9254	1HE2	GLN	974	-10.581	110.008	61.186	1.00	0.00	H
ATOM	9255	2HE2	GLN	974	-9.413	108.890	60.446	1.00	0.00	H
ATOM	9256	C	GLN	974	-8.313	112.187	57.281	1.00	0.00	C
ATOM	9257	O	GLN	974	-7.810	111.840	56.212	1.00	0.00	O
ATOM	9258	N	THR	975	-7.596	112.154	58.436	1.00	0.00	N
ATOM	9259	HN	THR	975	-7.968	112.504	59.319	1.00	0.00	H
ATOM	9260	CA	THR	975	-6.274	111.590	58.325	1.00	0.00	C
ATOM	9261	CB	THR	975	-5.200	112.577	57.905	1.00	0.00	C
ATOM	9262	OG1	THR	975	-4.172	111.887	57.216	1.00	0.00	O
ATOM	9263	HG1	THR	975	-3.500	112.505	56.953	1.00	0.00	H
ATOM	9264	CG2	THR	975	-4.569	113.282	59.113	1.00	0.00	C
ATOM	9265	C	THR	975	-5.844	110.807	59.541	1.00	0.00	C
ATOM	9266	O	THR	975	-5.700	111.322	60.653	1.00	0.00	O
ATOM	9267	N	LEU	976	-5.580	109.502	59.319	1.00	0.00	N
ATOM	9268	HN	LEU	976	-5.683	109.136	58.373	1.00	0.00	H
ATOM	9269	CA	LEU	976	-5.160	108.610	60.361	1.00	0.00	C
ATOM	9270	CB	LEU	976	-5.475	107.136	60.022	1.00	0.00	C
ATOM	9271	CG	LEU	976	-5.117	106.091	61.102	1.00	0.00	C
ATOM	9272	CD1	LEU	976	-3.600	105.944	61.313	1.00	0.00	C
ATOM	9273	CD2	LEU	976	-5.891	106.360	62.401	1.00	0.00	C
ATOM	9274	C	LEU	976	-3.674	108.762	60.480	1.00	0.00	C
ATOM	9275	O	LEU	976	-2.934	108.518	59.528	1.00	0.00	O
ATOM	9276	N	ALA	977	-3.201	109.161	61.677	1.00	0.00	N
ATOM	9277	HN	ALA	977	-3.850	109.299	62.452	1.00	0.00	H
ATOM	9278	CA	ALA	977	-1.797	109.395	61.880	1.00	0.00	C
ATOM	9279	CB	ALA	977	-1.501	110.560	62.838	1.00	0.00	C
ATOM	9280	C	ALA	977	-1.170	108.173	62.463	1.00	0.00	C
ATOM	9281	O	ALA	977	-1.619	107.634	63.475	1.00	0.00	O
ATOM	9282	N	LEU	978	-0.079	107.701	61.836	1.00	0.00	N
ATOM	9283	HN	LEU	978	0.324	108.167	61.023	1.00	0.00	H
ATOM	9284	CA	LEU	978	0.479	106.509	62.379	1.00	0.00	C
ATOM	9285	CB	LEU	978	0.371	105.317	61.419	1.00	0.00	C
ATOM	9286	CG	LEU	978	0.914	104.015	62.011	1.00	0.00	C
ATOM	9287	CD1	LEU	978	0.324	103.765	63.403	1.00	0.00	C
ATOM	9288	CD2	LEU	978	0.622	102.840	61.073	1.00	0.00	C
ATOM	9289	C	LEU	978	1.897	106.724	62.797	1.00	0.00	C
ATOM	9290	O	LEU	978	2.734	107.200	62.028	1.00	0.00	O
ATOM	9291	N	VAL	979	2.171	106.397	64.079	1.00	0.00	N
ATOM	9292	HN	VAL	979	1.404	106.080	64.671	1.00	0.00	H
ATOM	9293	CA	VAL	979	3.487	106.473	64.652	1.00	0.00	C
ATOM	9294	CB	VAL	979	3.582	107.446	65.788	1.00	0.00	C
ATOM	9295	CG1	VAL	979	4.927	107.243	66.491	1.00	0.00	C
ATOM	9296	CG2	VAL	979	3.406	108.865	65.252	1.00	0.00	C
ATOM	9297	C	VAL	979	3.782	105.148	65.277	1.00	0.00	C
ATOM	9298	O	VAL	979	3.209	104.804	66.310	1.00	0.00	O
ATOM	9299	N	GLY	980	4.701	104.371	64.673	1.00	0.00	N
ATOM	9300	HN	GLY	980	5.154	104.686	63.815	1.00	0.00	H
ATOM	9301	CA	GLY	980	5.040	103.098	65.241	1.00	0.00	C
ATOM	9302	C	GLY	980	6.443	103.140	65.759	1.00	0.00	C
ATOM	9303	O	GLY	980	7.026	104.208	65.949	1.00	0.00	O
ATOM	9304	N	SER	981	6.989	101.935	66.045	1.00	0.00	N
ATOM	9305	HN	SER	981	6.405	101.107	65.926	1.00	0.00	H
ATOM	9306	CA	SER	981	8.335	101.745	66.505	1.00	0.00	C
ATOM	9307	CB	SER	981	8.572	100.310	67.013	1.00	0.00	C
ATOM	9308	OG	SER	981	8.249	99.367	66.002	1.00	0.00	O
ATOM	9309	HG	SER	981	8.395	98.482	66.315	1.00	0.00	H
ATOM	9310	C	SER	981	9.314	102.045	65.409	1.00	0.00	C
ATOM	9311	O	SER	981	10.003	103.065	65.436	1.00	0.00	O
ATOM	9312	N	SER	982	9.388	101.154	64.400	1.00	0.00	N
ATOM	9313	HN	SER	982	8.783	100.333	64.410	1.00	0.00	H
ATOM	9314	CA	SER	982	10.303	101.342	63.315	1.00	0.00	C
ATOM	9315	CB	SER	982	11.776	101.324	63.762	1.00	0.00	C
ATOM	9316	OG	SER	982	12.635	101.515	62.647	1.00	0.00	O
ATOM	9317	HG	SER	982	13.544	101.504	62.923	1.00	0.00	H
ATOM	9318	C	SER	982	10.114	100.203	62.364	1.00	0.00	C
ATOM	9319	O	SER	982	9.674	99.120	62.750	1.00	0.00	O
ATOM	9320	N	GLY	983	10.442	100.434	61.080	1.00	0.00	N
ATOM	9321	HN	GLY	983	10.739	101.371	60.808	1.00	0.00	H

ATOM	9322	CA	GLY	983	10.388	99.407	60.083	1.00	0.00	C
ATOM	9323	C	GLY	983	9.006	98.850	59.970	1.00	0.00	C
ATOM	9324	O	GLY	983	8.054	99.544	59.616	1.00	0.00	O
ATOM	9325	N	CYS	984	8.877	97.548	60.286	1.00	0.00	N
ATOM	9326	HN	CYS	984	9.682	97.049	60.665	1.00	0.00	H
ATOM	9327	CA	CYS	984	7.645	96.843	60.106	1.00	0.00	C
ATOM	9328	CB	CYS	984	7.729	95.346	60.457	1.00	0.00	C
ATOM	9329	SG	CYS	984	8.841	94.422	59.353	1.00	0.00	S
ATOM	9330	C	CYS	984	6.579	97.449	60.955	1.00	0.00	C
ATOM	9331	O	CYS	984	6.834	98.290	61.814	1.00	0.00	O
ATOM	9332	N	GLY	985	5.324	97.067	60.652	1.00	0.00	N
ATOM	9333	HN	GLY	985	5.182	96.443	59.858	1.00	0.00	H
ATOM	9334	CA	GLY	985	4.180	97.499	61.397	1.00	0.00	C
ATOM	9335	C	GLY	985	3.440	98.503	60.580	1.00	0.00	C
ATOM	9336	O	GLY	985	2.286	98.295	60.210	1.00	0.00	O
ATOM	9337	N	LYS	986	4.107	99.621	60.260	1.00	0.00	N
ATOM	9338	HN	LYS	986	5.072	99.741	60.569	1.00	0.00	H
ATOM	9339	CA	LYS	986	3.477	100.648	59.488	1.00	0.00	C
ATOM	9340	CB	LYS	986	4.355	101.904	59.403	1.00	0.00	C
ATOM	9341	CG	LYS	986	4.639	102.497	60.785	1.00	0.00	C
ATOM	9342	CD	LYS	986	5.777	103.520	60.804	1.00	0.00	C
ATOM	9343	CE	LYS	986	6.046	104.098	62.194	1.00	0.00	C
ATOM	9344	NZ	LYS	986	7.159	105.071	62.134	1.00	0.00	N
ATOM	9345	HZ1	LYS	986	7.338	105.457	63.061	1.00	0.00	H
ATOM	9346	HZ2	LYS	986	6.990	105.802	61.443	1.00	0.00	H
ATOM	9347	HZ3	LYS	986	7.999	104.665	61.720	1.00	0.00	H
ATOM	9348	C	LYS	986	3.271	100.100	58.115	1.00	0.00	C
ATOM	9349	O	LYS	986	2.228	100.291	57.490	1.00	0.00	O
ATOM	9350	N	SER	987	4.294	99.383	57.625	1.00	0.00	N
ATOM	9351	HN	SER	987	5.113	99.241	58.216	1.00	0.00	H
ATOM	9352	CA	SER	987	4.293	98.809	56.316	1.00	0.00	C
ATOM	9353	CB	SER	987	5.618	98.092	56.033	1.00	0.00	C
ATOM	9354	OG	SER	987	5.500	97.315	54.856	1.00	0.00	O
ATOM	9355	HG	SER	987	6.321	96.871	54.681	1.00	0.00	H
ATOM	9356	C	SER	987	3.212	97.782	56.222	1.00	0.00	C
ATOM	9357	O	SER	987	2.377	97.834	55.320	1.00	0.00	O
ATOM	9358	N	THR	988	3.184	96.848	57.193	1.00	0.00	N
ATOM	9359	HN	THR	988	3.832	96.936	57.976	1.00	0.00	H
ATOM	9360	CA	THR	988	2.279	95.734	57.170	1.00	0.00	C
ATOM	9361	CB	THR	988	2.442	94.831	58.360	1.00	0.00	C
ATOM	9362	OG1	THR	988	2.197	95.551	59.559	1.00	0.00	O
ATOM	9363	HG1	THR	988	1.315	95.905	59.557	1.00	0.00	H
ATOM	9364	CG2	THR	988	3.870	94.258	58.363	1.00	0.00	C
ATOM	9365	C	THR	988	0.873	96.234	57.178	1.00	0.00	C
ATOM	9366	O	THR	988	0.023	95.702	56.465	1.00	0.00	O
ATOM	9367	N	VAL	989	0.581	97.270	57.985	1.00	0.00	N
ATOM	9368	HN	VAL	989	1.309	97.705	58.552	1.00	0.00	H
ATOM	9369	CA	VAL	989	-0.768	97.754	58.037	1.00	0.00	C
ATOM	9370	CB	VAL	989	-0.928	98.951	58.925	1.00	0.00	C
ATOM	9371	CG1	VAL	989	-2.377	99.455	58.802	1.00	0.00	C
ATOM	9372	CG2	VAL	989	-0.519	98.567	60.356	1.00	0.00	C
ATOM	9373	C	VAL	989	-1.169	98.193	56.666	1.00	0.00	C
ATOM	9374	O	VAL	989	-2.180	97.742	56.132	1.00	0.00	O
ATOM	9375	N	VAL	990	-0.335	99.037	56.033	1.00	0.00	N
ATOM	9376	HN	VAL	990	0.551	99.285	56.473	1.00	0.00	H
ATOM	9377	CA	VAL	990	-0.663	99.597	54.754	1.00	0.00	C
ATOM	9378	CB	VAL	990	0.489	100.392	54.211	1.00	0.00	C
ATOM	9379	CG1	VAL	990	0.153	100.875	52.794	1.00	0.00	C
ATOM	9380	CG2	VAL	990	0.812	101.522	55.202	1.00	0.00	C
ATOM	9381	C	VAL	990	-0.920	98.469	53.810	1.00	0.00	C
ATOM	9382	O	VAL	990	-1.967	98.401	53.168	1.00	0.00	O
ATOM	9383	N	GLN	991	0.004	97.500	53.775	1.00	0.00	N
ATOM	9384	HN	GLN	991	0.799	97.535	54.414	1.00	0.00	H
ATOM	9385	CA	GLN	991	-0.115	96.418	52.850	1.00	0.00	C
ATOM	9386	CB	GLN	991	1.031	95.404	53.006	1.00	0.00	C
ATOM	9387	CG	GLN	991	2.384	95.981	52.580	1.00	0.00	C
ATOM	9388	CD	GLN	991	3.488	95.050	53.055	1.00	0.00	C
ATOM	9389	OE1	GLN	991	3.641	94.812	54.252	1.00	0.00	O
ATOM	9390	NE2	GLN	991	4.290	94.517	52.095	1.00	0.00	N
ATOM	9391	1HE2	GLN	991	4.163	94.714	51.102	1.00	0.00	H
ATOM	9392	2HE2	GLN	991	5.031	93.892	52.414	1.00	0.00	H
ATOM	9393	C	GLN	991	-1.407	95.720	53.107	1.00	0.00	C
ATOM	9394	O	GLN	991	-2.157	95.461	52.173	1.00	0.00	O
ATOM	9395	N	LEU	992	-1.755	95.497	54.384	1.00	0.00	N

ATOM	9396	HN	LEU	992	-1.176	95.873	55.135	1.00	0.00	H
ATOM	9397	CA	LEU	992	-2.931	94.737	54.709	1.00	0.00	C
ATOM	9398	CB	LEU	992	-3.172	94.647	56.227	1.00	0.00	C
ATOM	9399	CG	LEU	992	-2.139	93.766	56.954	1.00	0.00	C
ATOM	9400	CD1	LEU	992	-2.416	93.697	58.462	1.00	0.00	C
ATOM	9401	CD2	LEU	992	-2.066	92.370	56.315	1.00	0.00	C
ATOM	9402	C	LEU	992	-4.135	95.372	54.083	1.00	0.00	C
ATOM	9403	O	LEU	992	-5.022	94.666	53.603	1.00	0.00	O
ATOM	9404	N	LEU	993	-4.208	96.715	54.079	1.00	0.00	N
ATOM	9405	HN	LEU	993	-3.459	97.256	54.511	1.00	0.00	H
ATOM	9406	CA	LEU	993	-5.320	97.407	53.479	1.00	0.00	C
ATOM	9407	CB	LEU	993	-5.213	98.924	53.670	1.00	0.00	C
ATOM	9408	CG	LEU	993	-6.344	99.712	52.998	1.00	0.00	C
ATOM	9409	CD1	LEU	993	-7.726	99.251	53.485	1.00	0.00	C
ATOM	9410	CD2	LEU	993	-6.123	101.216	53.205	1.00	0.00	C
ATOM	9411	C	LEU	993	-5.310	97.109	52.018	1.00	0.00	C
ATOM	9412	O	LEU	993	-6.348	96.918	51.384	1.00	0.00	O
ATOM	9413	N	GLU	994	-4.094	97.071	51.459	1.00	0.00	N
ATOM	9414	HN	GLU	994	-3.297	97.301	52.052	1.00	0.00	H
ATOM	9415	CA	GLU	994	-3.825	96.734	50.096	1.00	0.00	C
ATOM	9416	CB	GLU	994	-2.350	96.936	49.709	1.00	0.00	C
ATOM	9417	CG	GLU	994	-1.958	98.404	49.526	1.00	0.00	C
ATOM	9418	CD	GLU	994	-2.570	98.856	48.211	1.00	0.00	C
ATOM	9419	OE1	GLU	994	-3.591	98.238	47.811	1.00	0.00	O
ATOM	9420	OE2	GLU	994	-2.029	99.809	47.588	1.00	0.00	O
ATOM	9421	C	GLU	994	-4.161	95.283	49.938	1.00	0.00	C
ATOM	9422	O	GLU	994	-4.147	94.734	48.840	1.00	0.00	O
ATOM	9423	N	ARG	995	-4.353	94.596	51.073	1.00	0.00	N
ATOM	9424	HN	ARG	995	-4.268	95.095	51.958	1.00	0.00	H
ATOM	9425	CA	ARG	995	-4.670	93.202	51.112	1.00	0.00	C
ATOM	9426	CB	ARG	995	-6.075	92.816	50.614	1.00	0.00	C
ATOM	9427	CG	ARG	995	-6.366	91.332	50.879	1.00	0.00	C
ATOM	9428	CD	ARG	995	-7.680	90.812	50.300	1.00	0.00	C
ATOM	9429	NE	ARG	995	-7.708	89.340	50.536	1.00	0.00	N
ATOM	9430	HE	ARG	995	-6.983	88.901	51.103	1.00	0.00	H
ATOM	9431	CZ	ARG	995	-8.703	88.581	49.994	1.00	0.00	C
ATOM	9432	NH1	ARG	995	-9.684	89.173	49.251	1.00	0.00	N
ATOM	9433	1HH1	ARG	995	-9.674	90.183	49.107	1.00	0.00	H
ATOM	9434	2HH1	ARG	995	-10.428	88.605	48.846	1.00	0.00	H
ATOM	9435	NH2	ARG	995	-8.716	87.230	50.187	1.00	0.00	N
ATOM	9436	1HH2	ARG	995	-7.983	86.788	50.742	1.00	0.00	H
ATOM	9437	2HH2	ARG	995	-9.460	86.662	49.782	1.00	0.00	H
ATOM	9438	C	ARG	995	-3.662	92.456	50.304	1.00	0.00	C
ATOM	9439	O	ARG	995	-4.027	91.620	49.478	1.00	0.00	O
ATOM	9440	N	PHE	996	-2.365	92.797	50.465	1.00	0.00	N
ATOM	9441	HN	PHE	996	-2.110	93.591	51.053	1.00	0.00	H
ATOM	9442	CA	PHE	996	-1.353	92.033	49.802	1.00	0.00	C
ATOM	9443	CB	PHE	996	0.054	92.653	49.836	1.00	0.00	C
ATOM	9444	CG	PHE	996	0.033	93.911	49.039	1.00	0.00	C
ATOM	9445	CD1	PHE	996	-0.385	93.900	47.729	1.00	0.00	C
ATOM	9446	CD2	PHE	996	0.477	95.093	49.588	1.00	0.00	C
ATOM	9447	CE1	PHE	996	-0.394	95.058	46.987	1.00	0.00	C
ATOM	9448	CE2	PHE	996	0.473	96.252	48.850	1.00	0.00	C
ATOM	9449	CZ	PHE	996	0.033	96.238	47.547	1.00	0.00	C
ATOM	9450	C	PHE	996	-1.269	90.713	50.488	1.00	0.00	C
ATOM	9451	O	PHE	996	-1.286	89.659	49.856	1.00	0.00	O
ATOM	9452	N	TYR	997	-1.205	90.757	51.830	1.00	0.00	N
ATOM	9453	HN	TYR	997	-1.209	91.666	52.293	1.00	0.00	H
ATOM	9454	CA	TYR	997	-1.131	89.573	52.633	1.00	0.00	C
ATOM	9455	CB	TYR	997	-0.010	89.615	53.686	1.00	0.00	C
ATOM	9456	CG	TYR	997	1.284	90.017	53.061	1.00	0.00	C
ATOM	9457	CD1	TYR	997	1.485	91.335	52.723	1.00	0.00	C
ATOM	9458	CD2	TYR	997	2.302	89.114	52.842	1.00	0.00	C
ATOM	9459	CE1	TYR	997	2.668	91.752	52.163	1.00	0.00	C
ATOM	9460	CE2	TYR	997	3.492	89.525	52.282	1.00	0.00	C
ATOM	9461	CZ	TYR	997	3.676	90.846	51.942	1.00	0.00	C
ATOM	9462	OH	TYR	997	4.893	91.275	51.371	1.00	0.00	O
ATOM	9463	HH	TYR	997	5.590	90.648	51.218	1.00	0.00	H
ATOM	9464	C	TYR	997	-2.394	89.632	53.433	1.00	0.00	C
ATOM	9465	O	TYR	997	-2.786	90.704	53.889	1.00	0.00	O
ATOM	9466	N	ASP	998	-3.102	88.504	53.615	1.00	0.00	N
ATOM	9467	HN	ASP	998	-2.814	87.606	53.226	1.00	0.00	H
ATOM	9468	CA	ASP	998	-4.294	88.660	54.399	1.00	0.00	C
ATOM	9469	CB	ASP	998	-5.575	88.050	53.788	1.00	0.00	C

ATOM	9470	CG	ASP	998	-5.407	86.575	53.492	1.00	0.00	C
ATOM	9471	OD1	ASP	998	-4.347	86.004	53.856	1.00	0.00	O
ATOM	9472	OD2	ASP	998	-6.345	86.004	52.874	1.00	0.00	O
ATOM	9473	C	ASP	998	-4.054	88.224	55.808	1.00	0.00	C
ATOM	9474	O	ASP	998	-3.386	87.233	56.100	1.00	0.00	O
ATOM	9475	N	PRO	999	-4.617	89.015	56.683	1.00	0.00	N
ATOM	9476	CA	PRO	999	-4.428	88.869	58.102	1.00	0.00	C
ATOM	9477	CD	PRO	999	-5.845	89.725	56.364	1.00	0.00	C
ATOM	9478	CB	PRO	999	-5.425	89.830	58.746	1.00	0.00	C
ATOM	9479	CG	PRO	999	-6.562	89.910	57.711	1.00	0.00	C
ATOM	9480	C	PRO	999	-4.652	87.462	58.537	1.00	0.00	C
ATOM	9481	O	PRO	999	-5.566	86.808	58.040	1.00	0.00	O
ATOM	9482	N	LEU	1000	-3.811	86.978	59.469	1.00	0.00	N
ATOM	9483	HN	LEU	1000	-3.071	87.580	59.829	1.00	0.00	H
ATOM	9484	CA	LEU	1000	-3.926	85.642	59.969	1.00	0.00	C
ATOM	9485	CB	LEU	1000	-2.817	85.296	60.980	1.00	0.00	C
ATOM	9486	CG	LEU	1000	-1.403	85.283	60.366	1.00	0.00	C
ATOM	9487	CD1	LEU	1000	-0.338	84.928	61.417	1.00	0.00	C
ATOM	9488	CD2	LEU	1000	-1.339	84.375	59.125	1.00	0.00	C
ATOM	9489	C	LEU	1000	-5.242	85.541	60.669	1.00	0.00	C
ATOM	9490	O	LEU	1000	-5.906	84.513	60.584	1.00	0.00	O
ATOM	9491	N	ALA	1001	-5.656	86.594	61.402	1.00	0.00	N
ATOM	9492	HN	ALA	1001	-5.073	87.427	61.482	1.00	0.00	H
ATOM	9493	CA	ALA	1001	-6.928	86.532	62.070	1.00	0.00	C
ATOM	9494	CB	ALA	1001	-6.855	85.946	63.492	1.00	0.00	C
ATOM	9495	C	ALA	1001	-7.474	87.927	62.190	1.00	0.00	C
ATOM	9496	O	ALA	1001	-6.721	88.898	62.249	1.00	0.00	O
ATOM	9497	N	GLY	1002	-8.819	88.054	62.254	1.00	0.00	N
ATOM	9498	HN	GLY	1002	-9.402	87.218	62.227	1.00	0.00	H
ATOM	9499	CA	GLY	1002	-9.443	89.347	62.360	1.00	0.00	C
ATOM	9500	C	GLY	1002	-9.850	89.777	60.981	1.00	0.00	C
ATOM	9501	O	GLY	1002	-9.734	88.997	60.037	1.00	0.00	O
ATOM	9502	N	LYS	1003	-10.361	91.025	60.828	1.00	0.00	N
ATOM	9503	HN	LYS	1003	-10.418	91.657	61.626	1.00	0.00	H
ATOM	9504	CA	LYS	1003	-10.822	91.452	59.531	1.00	0.00	C
ATOM	9505	CB	LYS	1003	-12.297	91.101	59.267	1.00	0.00	C
ATOM	9506	CG	LYS	1003	-13.265	91.881	60.162	1.00	0.00	C
ATOM	9507	CD	LYS	1003	-14.731	91.803	59.727	1.00	0.00	C
ATOM	9508	CE	LYS	1003	-15.489	90.621	60.333	1.00	0.00	C
ATOM	9509	NZ	LYS	1003	-16.931	90.729	60.017	1.00	0.00	N
ATOM	9510	HZ1	LYS	1003	-17.437	89.941	60.421	1.00	0.00	H
ATOM	9511	HZ2	LYS	1003	-17.097	90.816	59.014	1.00	0.00	H
ATOM	9512	HZ3	LYS	1003	-17.321	91.624	60.311	1.00	0.00	H
ATOM	9513	C	LYS	1003	-10.720	92.949	59.393	1.00	0.00	C
ATOM	9514	O	LYS	1003	-10.287	93.652	60.303	1.00	0.00	O
ATOM	9515	N	VAL	1004	-11.106	93.482	58.210	1.00	0.00	N
ATOM	9516	HN	VAL	1004	-11.434	92.871	57.462	1.00	0.00	H
ATOM	9517	CA	VAL	1004	-11.057	94.905	57.999	1.00	0.00	C
ATOM	9518	CB	VAL	1004	-9.728	95.345	57.402	1.00	0.00	C
ATOM	9519	CG1	VAL	1004	-9.303	94.321	56.359	1.00	0.00	C
ATOM	9520	CG2	VAL	1004	-9.791	96.763	56.808	1.00	0.00	C
ATOM	9521	C	VAL	1004	-12.257	95.316	57.191	1.00	0.00	C
ATOM	9522	O	VAL	1004	-12.997	94.458	56.728	1.00	0.00	O
ATOM	9523	N	LEU	1005	-12.571	96.632	57.120	1.00	0.00	N
ATOM	9524	HN	LEU	1005	-12.025	97.298	57.667	1.00	0.00	H
ATOM	9525	CA	LEU	1005	-13.647	97.125	56.301	1.00	0.00	C
ATOM	9526	CB	LEU	1005	-14.986	97.292	57.043	1.00	0.00	C
ATOM	9527	CG	LEU	1005	-15.618	95.973	57.528	1.00	0.00	C
ATOM	9528	CD1	LEU	1005	-14.808	95.340	58.669	1.00	0.00	C
ATOM	9529	CD2	LEU	1005	-17.098	96.169	57.892	1.00	0.00	C
ATOM	9530	C	LEU	1005	-13.255	98.492	55.828	1.00	0.00	C
ATOM	9531	O	LEU	1005	-13.241	99.449	56.598	1.00	0.00	O
ATOM	9532	N	LEU	1006	-12.988	98.628	54.521	1.00	0.00	N
ATOM	9533	HN	LEU	1006	-13.079	97.811	53.917	1.00	0.00	H
ATOM	9534	CA	LEU	1006	-12.580	99.870	53.935	1.00	0.00	C
ATOM	9535	CB	LEU	1006	-12.288	99.788	52.432	1.00	0.00	C
ATOM	9536	CG	LEU	1006	-13.552	99.665	51.568	1.00	0.00	C
ATOM	9537	CD1	LEU	1006	-13.183	99.593	50.083	1.00	0.00	C
ATOM	9538	CD2	LEU	1006	-14.444	98.499	52.023	1.00	0.00	C
ATOM	9539	C	LEU	1006	-13.711	100.822	54.093	1.00	0.00	C
ATOM	9540	O	LEU	1006	-13.553	102.032	53.933	1.00	0.00	O
ATOM	9541	N	ASP	1007	-14.922	100.284	54.289	1.00	0.00	N
ATOM	9542	HN	ASP	1007	-15.048	99.273	54.334	1.00	0.00	H
ATOM	9543	CA	ASP	1007	-16.029	101.172	54.432	1.00	0.00	C

ATOM	9544	CB	ASP	1007	-16.510	101.706	53.075	1.00	0.00	C
ATOM	9545	CG	ASP	1007	-17.684	102.639	53.319	1.00	0.00	C
ATOM	9546	OD1	ASP	1007	-17.635	103.426	54.301	1.00	0.00	O
ATOM	9547	OD2	ASP	1007	-18.664	102.552	52.531	1.00	0.00	O
ATOM	9548	C	ASP	1007	-17.176	100.416	55.010	1.00	0.00	C
ATOM	9549	O	ASP	1007	-17.933	100.954	55.812	1.00	0.00	O
ATOM	9550	N	GLY	1008	-17.285	99.101	54.756	1.00	0.00	N
ATOM	9551	HN	GLY	1008	-16.559	98.549	54.300	1.00	0.00	H
ATOM	9552	CA	GLY	1008	-18.532	98.563	55.197	1.00	0.00	C
ATOM	9553	C	GLY	1008	-18.606	97.086	55.016	1.00	0.00	C
ATOM	9554	O	GLY	1008	-19.595	96.486	55.431	1.00	0.00	O
ATOM	9555	N	LYS	1009	-17.601	96.440	54.400	1.00	0.00	N
ATOM	9556	HN	LYS	1009	-16.784	96.925	54.030	1.00	0.00	H
ATOM	9557	CA	LYS	1009	-17.763	95.019	54.302	1.00	0.00	C
ATOM	9558	CB	LYS	1009	-18.522	94.654	53.025	1.00	0.00	C
ATOM	9559	CG	LYS	1009	-19.884	95.341	52.956	1.00	0.00	C
ATOM	9560	CD	LYS	1009	-20.370	95.561	51.528	1.00	0.00	C
ATOM	9561	CE	LYS	1009	-19.536	96.612	50.792	1.00	0.00	C
ATOM	9562	NZ	LYS	1009	-19.607	97.906	51.509	1.00	0.00	N
ATOM	9563	HZ1	LYS	1009	-19.051	98.607	51.018	1.00	0.00	H
ATOM	9564	HZ2	LYS	1009	-19.333	97.817	52.488	1.00	0.00	H
ATOM	9565	HZ3	LYS	1009	-20.569	98.212	51.651	1.00	0.00	H
ATOM	9566	C	LYS	1009	-16.412	94.416	54.179	1.00	0.00	C
ATOM	9567	O	LYS	1009	-15.659	94.785	53.279	1.00	0.00	O
ATOM	9568	N	GLU	1010	-16.164	93.388	55.016	1.00	0.00	N
ATOM	9569	HN	GLU	1010	-16.961	93.040	55.550	1.00	0.00	H
ATOM	9570	CA	GLU	1010	-14.915	92.727	55.244	1.00	0.00	C
ATOM	9571	CB	GLU	1010	-15.046	91.230	55.580	1.00	0.00	C
ATOM	9572	CG	GLU	1010	-15.707	90.950	56.931	1.00	0.00	C
ATOM	9573	CD	GLU	1010	-15.758	89.439	57.124	1.00	0.00	C
ATOM	9574	OE1	GLU	1010	-14.682	88.792	57.028	1.00	0.00	O
ATOM	9575	OE2	GLU	1010	-16.876	88.911	57.371	1.00	0.00	O
ATOM	9576	C	GLU	1010	-13.990	92.826	54.096	1.00	0.00	C
ATOM	9577	O	GLU	1010	-14.205	92.272	53.022	1.00	0.00	O
ATOM	9578	N	ILE	1011	-12.861	93.513	54.354	1.00	0.00	N
ATOM	9579	HN	ILE	1011	-12.810	94.018	55.239	1.00	0.00	H
ATOM	9580	CA	ILE	1011	-11.736	93.590	53.492	1.00	0.00	C
ATOM	9581	CB	ILE	1011	-10.886	94.808	53.739	1.00	0.00	C
ATOM	9582	CG1	ILE	1011	-11.689	96.088	53.457	1.00	0.00	C
ATOM	9583	CG2	ILE	1011	-9.614	94.699	52.881	1.00	0.00	C
ATOM	9584	CD1	ILE	1011	-12.124	96.219	51.998	1.00	0.00	C
ATOM	9585	C	ILE	1011	-10.970	92.386	53.936	1.00	0.00	C
ATOM	9586	O	ILE	1011	-9.863	92.470	54.455	1.00	0.00	O
ATOM	9587	N	LYS	1012	-11.721	91.290	54.098	1.00	0.00	N
ATOM	9588	HN	LYS	1012	-12.709	91.460	54.287	1.00	0.00	H
ATOM	9589	CA	LYS	1012	-11.341	89.935	54.044	1.00	0.00	C
ATOM	9590	CB	LYS	1012	-12.142	89.097	55.047	1.00	0.00	C
ATOM	9591	CG	LYS	1012	-11.776	87.618	55.039	1.00	0.00	C
ATOM	9592	CD	LYS	1012	-12.270	86.869	56.276	1.00	0.00	C
ATOM	9593	CE	LYS	1012	-11.921	85.379	56.272	1.00	0.00	C
ATOM	9594	NZ	LYS	1012	-12.446	84.733	57.496	1.00	0.00	N
ATOM	9595	HZ1	LYS	1012	-12.213	83.740	57.493	1.00	0.00	H
ATOM	9596	HZ2	LYS	1012	-13.447	84.891	57.612	1.00	0.00	H
ATOM	9597	HZ3	LYS	1012	-12.122	85.199	58.343	1.00	0.00	H
ATOM	9598	C	LYS	1012	-11.790	89.574	52.678	1.00	0.00	C
ATOM	9599	O	LYS	1012	-11.060	89.072	51.825	1.00	0.00	O
ATOM	9600	N	ARG	1013	-13.075	89.935	52.450	1.00	0.00	N
ATOM	9601	HN	ARG	1013	-13.602	90.412	53.181	1.00	0.00	H
ATOM	9602	CA	ARG	1013	-13.697	89.656	51.202	1.00	0.00	C
ATOM	9603	CB	ARG	1013	-14.640	88.438	51.216	1.00	0.00	C
ATOM	9604	CG	ARG	1013	-15.763	88.462	52.252	1.00	0.00	C
ATOM	9605	CD	ARG	1013	-16.499	87.122	52.297	1.00	0.00	C
ATOM	9606	NE	ARG	1013	-17.370	87.111	53.501	1.00	0.00	N
ATOM	9607	HE	ARG	1013	-17.780	87.978	53.850	1.00	0.00	H
ATOM	9608	CZ	ARG	1013	-17.615	85.927	54.135	1.00	0.00	C
ATOM	9609	NH1	ARG	1013	-17.043	84.777	53.672	1.00	0.00	N
ATOM	9610	1HH1	ARG	1013	-17.226	83.892	54.146	1.00	0.00	H
ATOM	9611	2HH1	ARG	1013	-16.440	84.802	52.850	1.00	0.00	H
ATOM	9612	NH2	ARG	1013	-18.422	85.893	55.235	1.00	0.00	N
ATOM	9613	1HH2	ARG	1013	-18.605	85.008	55.709	1.00	0.00	H
ATOM	9614	2HH2	ARG	1013	-18.849	86.752	55.581	1.00	0.00	H
ATOM	9615	C	ARG	1013	-14.407	90.863	50.706	1.00	0.00	C
ATOM	9616	O	ARG	1013	-15.519	91.195	51.117	1.00	0.00	O
ATOM	9617	N	LEU	1014	-13.725	91.541	49.772	1.00	0.00	N

ATOM	9618	HN	LEU	1014	-12.774	91.221	49.591	1.00	0.00	H
ATOM	9619	CA	LEU	1014	-14.171	92.658	49.000	1.00	0.00	C
ATOM	9620	CB	LEU	1014	-13.718	94.009	49.568	1.00	0.00	C
ATOM	9621	CG	LEU	1014	-14.196	95.214	48.738	1.00	0.00	C
ATOM	9622	CD1	LEU	1014	-15.731	95.323	48.744	1.00	0.00	C
ATOM	9623	CD2	LEU	1014	-13.507	96.508	49.199	1.00	0.00	C
ATOM	9624	C	LEU	1014	-13.422	92.426	47.723	1.00	0.00	C
ATOM	9625	O	LEU	1014	-12.314	91.892	47.781	1.00	0.00	O
ATOM	9626	N	ASN	1015	-13.978	92.785	46.545	1.00	0.00	N
ATOM	9627	HN	ASN	1015	-14.890	93.241	46.512	1.00	0.00	H
ATOM	9628	CA	ASN	1015	-13.244	92.505	45.337	1.00	0.00	C
ATOM	9629	CB	ASN	1015	-13.940	92.994	44.055	1.00	0.00	C
ATOM	9630	CG	ASN	1015	-13.077	92.639	42.853	1.00	0.00	C
ATOM	9631	OD1	ASN	1015	-11.997	93.198	42.660	1.00	0.00	O
ATOM	9632	ND2	ASN	1015	-13.558	91.691	42.012	1.00	0.00	N
ATOM	9633	1HD2	ASN	1015	-14.453	91.228	42.172	1.00	0.00	H
ATOM	9634	2HD2	ASN	1015	-12.980	91.453	41.206	1.00	0.00	H
ATOM	9635	C	ASN	1015	-11.924	93.199	45.402	1.00	0.00	C
ATOM	9636	O	ASN	1015	-11.844	94.425	45.391	1.00	0.00	O
ATOM	9637	N	VAL	1016	-10.837	92.411	45.381	1.00	0.00	N
ATOM	9638	HN	VAL	1016	-10.952	91.410	45.225	1.00	0.00	H
ATOM	9639	CA	VAL	1016	-9.517	92.943	45.573	1.00	0.00	C
ATOM	9640	CB	VAL	1016	-8.453	91.885	45.516	1.00	0.00	C
ATOM	9641	CG1	VAL	1016	-8.519	91.197	44.143	1.00	0.00	C
ATOM	9642	CG2	VAL	1016	-7.098	92.547	45.816	1.00	0.00	C
ATOM	9643	C	VAL	1016	-9.191	93.977	44.540	1.00	0.00	C
ATOM	9644	O	VAL	1016	-8.691	95.049	44.879	1.00	0.00	O
ATOM	9645	N	GLN	1017	-9.501	93.709	43.257	1.00	0.00	N
ATOM	9646	HN	GLN	1017	-9.994	92.850	43.014	1.00	0.00	H
ATOM	9647	CA	GLN	1017	-9.129	94.648	42.235	1.00	0.00	C
ATOM	9648	CB	GLN	1017	-9.573	94.218	40.825	1.00	0.00	C
ATOM	9649	CG	GLN	1017	-9.314	95.285	39.758	1.00	0.00	C
ATOM	9650	CD	GLN	1017	-7.822	95.581	39.704	1.00	0.00	C
ATOM	9651	OE1	GLN	1017	-7.007	94.853	40.269	1.00	0.00	O
ATOM	9652	NE2	GLN	1017	-7.453	96.686	39.004	1.00	0.00	N
ATOM	9653	1HE2	GLN	1017	-8.129	97.290	38.536	1.00	0.00	H
ATOM	9654	2HE2	GLN	1017	-6.453	96.884	38.968	1.00	0.00	H
ATOM	9655	C	GLN	1017	-9.772	95.962	42.529	1.00	0.00	C
ATOM	9656	O	GLN	1017	-9.152	97.013	42.370	1.00	0.00	O
ATOM	9657	N	TRP	1018	-11.051	95.943	42.940	1.00	0.00	N
ATOM	9658	HN	TRP	1018	-11.550	95.058	43.025	1.00	0.00	H
ATOM	9659	CA	TRP	1018	-11.708	97.175	43.258	1.00	0.00	C
ATOM	9660	CB	TRP	1018	-13.227	97.028	43.384	1.00	0.00	C
ATOM	9661	CG	TRP	1018	-13.854	98.354	43.700	1.00	0.00	C
ATOM	9662	CD2	TRP	1018	-14.057	98.821	45.036	1.00	0.00	C
ATOM	9663	CD1	TRP	1018	-14.281	99.345	42.870	1.00	0.00	C
ATOM	9664	NE1	TRP	1018	-14.723	100.414	43.611	1.00	0.00	N
ATOM	9665	HE1	TRP	1018	-15.085	101.291	43.235	1.00	0.00	H
ATOM	9666	CE2	TRP	1018	-14.595	100.103	44.945	1.00	0.00	C
ATOM	9667	CE3	TRP	1018	-13.810	98.228	46.238	1.00	0.00	C
ATOM	9668	CZ2	TRP	1018	-14.898	100.820	46.064	1.00	0.00	C
ATOM	9669	CZ3	TRP	1018	-14.116	98.953	47.364	1.00	0.00	C
ATOM	9670	CH2	TRP	1018	-14.646	100.222	47.277	1.00	0.00	C
ATOM	9671	C	TRP	1018	-11.166	97.748	44.536	1.00	0.00	C
ATOM	9672	O	TRP	1018	-10.999	98.962	44.658	1.00	0.00	O
ATOM	9673	N	LEU	1019	-10.865	96.886	45.528	1.00	0.00	N
ATOM	9674	HN	LEU	1019	-10.996	95.884	45.386	1.00	0.00	H
ATOM	9675	CA	LEU	1019	-10.359	97.371	46.788	1.00	0.00	C
ATOM	9676	CB	LEU	1019	-9.941	96.231	47.734	1.00	0.00	C
ATOM	9677	CG	LEU	1019	-9.320	96.718	49.058	1.00	0.00	C
ATOM	9678	CD1	LEU	1019	-10.316	97.556	49.873	1.00	0.00	C
ATOM	9679	CD2	LEU	1019	-8.728	95.547	49.861	1.00	0.00	C
ATOM	9680	C	LEU	1019	-9.131	98.178	46.492	1.00	0.00	C
ATOM	9681	O	LEU	1019	-8.935	99.262	47.036	1.00	0.00	O
ATOM	9682	N	ARG	1020	-8.282	97.665	45.590	1.00	0.00	N
ATOM	9683	HN	ARG	1020	-8.503	96.754	45.187	1.00	0.00	H
ATOM	9684	CA	ARG	1020	-7.078	98.323	45.156	1.00	0.00	C
ATOM	9685	CB	ARG	1020	-6.120	97.430	44.348	1.00	0.00	C
ATOM	9686	CG	ARG	1020	-5.337	96.427	45.199	1.00	0.00	C
ATOM	9687	CD	ARG	1020	-4.123	95.852	44.464	1.00	0.00	C
ATOM	9688	NE	ARG	1020	-3.425	94.900	45.373	1.00	0.00	N
ATOM	9689	HE	ARG	1020	-2.735	95.249	46.039	1.00	0.00	H
ATOM	9690	CZ	ARG	1020	-3.702	93.565	45.321	1.00	0.00	C
ATOM	9691	NH1	ARG	1020	-4.637	93.094	44.447	1.00	0.00	N

ATOM	9692	1HH1	ARG	1020	-5.141	93.744	43.844	1.00	0.00	H
ATOM	9693	2HH1	ARG	1020	-4.844	92.096	44.408	1.00	0.00	H
ATOM	9694	NH2	ARG	1020	-3.027	92.695	46.129	1.00	0.00	N
ATOM	9695	1HH2	ARG	1020	-2.328	93.047	46.783	1.00	0.00	H
ATOM	9696	2HH2	ARG	1020	-3.234	91.697	46.090	1.00	0.00	H
ATOM	9697	C	ARG	1020	-7.412	99.496	44.293	1.00	0.00	C
ATOM	9698	O	ARG	1020	-6.556	100.325	43.996	1.00	0.00	O
ATOM	9699	N	ALA	1021	-8.647	99.558	43.781	1.00	0.00	N
ATOM	9700	HN	ALA	1021	-9.324	98.822	43.982	1.00	0.00	H
ATOM	9701	CA	ALA	1021	-9.011	100.664	42.950	1.00	0.00	C
ATOM	9702	CB	ALA	1021	-10.497	100.649	42.551	1.00	0.00	C
ATOM	9703	C	ALA	1021	-8.767	101.900	43.761	1.00	0.00	C
ATOM	9704	O	ALA	1021	-8.221	102.881	43.258	1.00	0.00	O
ATOM	9705	N	HIS	1022	-9.123	101.873	45.060	1.00	0.00	N
ATOM	9706	HN	HIS	1022	-9.547	101.039	45.466	1.00	0.00	H
ATOM	9707	CA	HIS	1022	-8.893	103.041	45.860	1.00	0.00	C
ATOM	9708	ND1	HIS	1022	-12.112	102.522	45.547	1.00	0.00	N
ATOM	9709	HD1	HIS	1022	-11.894	101.526	45.580	1.00	0.00	H
ATOM	9710	CG	HIS	1022	-11.360	103.546	46.078	1.00	0.00	C
ATOM	9711	CB	HIS	1022	-10.065	103.343	46.807	1.00	0.00	C
ATOM	9712	NE2	HIS	1022	-13.198	104.409	45.095	1.00	0.00	N
ATOM	9713	HE2	HIS	1022	-13.897	105.069	44.753	1.00	0.00	H
ATOM	9714	CD2	HIS	1022	-12.037	104.691	45.793	1.00	0.00	C
ATOM	9715	CE1	HIS	1022	-13.199	103.094	44.971	1.00	0.00	C
ATOM	9716	C	HIS	1022	-7.689	102.823	46.725	1.00	0.00	C
ATOM	9717	O	HIS	1022	-7.706	101.996	47.634	1.00	0.00	O
ATOM	9718	N	LEU	1023	-6.589	103.551	46.448	1.00	0.00	N
ATOM	9719	HN	LEU	1023	-6.575	104.172	45.639	1.00	0.00	H
ATOM	9720	CA	LEU	1023	-5.438	103.448	47.297	1.00	0.00	C
ATOM	9721	CB	LEU	1023	-4.791	102.046	47.274	1.00	0.00	C
ATOM	9722	CG	LEU	1023	-4.567	101.414	45.884	1.00	0.00	C
ATOM	9723	CD1	LEU	1023	-3.256	101.813	45.204	1.00	0.00	C
ATOM	9724	CD2	LEU	1023	-4.723	99.904	45.963	1.00	0.00	C
ATOM	9725	C	LEU	1023	-4.464	104.516	46.916	1.00	0.00	C
ATOM	9726	O	LEU	1023	-3.691	104.388	45.970	1.00	0.00	O
ATOM	9727	N	GLY	1024	-4.450	105.626	47.669	1.00	0.00	N
ATOM	9728	HN	GLY	1024	-5.072	105.735	48.470	1.00	0.00	H
ATOM	9729	CA	GLY	1024	-3.524	106.649	47.298	1.00	0.00	C
ATOM	9730	C	GLY	1024	-2.241	106.280	47.952	1.00	0.00	C
ATOM	9731	O	GLY	1024	-1.891	106.813	49.002	1.00	0.00	O
ATOM	9732	N	ILE	1025	-1.481	105.378	47.308	1.00	0.00	N
ATOM	9733	HN	ILE	1025	-1.763	105.025	46.393	1.00	0.00	H
ATOM	9734	CA	ILE	1025	-0.274	104.919	47.919	1.00	0.00	C
ATOM	9735	CB	ILE	1025	-0.038	103.447	47.804	1.00	0.00	C
ATOM	9736	CG1	ILE	1025	1.251	103.101	48.567	1.00	0.00	C
ATOM	9737	CG2	ILE	1025	-0.024	103.065	46.314	1.00	0.00	C
ATOM	9738	CD1	ILE	1025	1.462	101.612	48.805	1.00	0.00	C
ATOM	9739	C	ILE	1025	0.903	105.596	47.302	1.00	0.00	C
ATOM	9740	O	ILE	1025	0.939	105.859	46.101	1.00	0.00	O
ATOM	9741	N	VAL	1026	1.867	105.969	48.166	1.00	0.00	N
ATOM	9742	HN	VAL	1026	1.689	105.855	49.164	1.00	0.00	H
ATOM	9743	CA	VAL	1026	3.128	106.517	47.764	1.00	0.00	C
ATOM	9744	CB	VAL	1026	3.122	108.015	47.670	1.00	0.00	C
ATOM	9745	CG1	VAL	1026	4.534	108.488	47.293	1.00	0.00	C
ATOM	9746	CG2	VAL	1026	2.040	108.439	46.663	1.00	0.00	C
ATOM	9747	C	VAL	1026	4.072	106.130	48.862	1.00	0.00	C
ATOM	9748	O	VAL	1026	3.753	106.307	50.037	1.00	0.00	O
ATOM	9749	N	SER	1027	5.272	105.617	48.520	1.00	0.00	N
ATOM	9750	HN	SER	1027	5.550	105.570	47.540	1.00	0.00	H
ATOM	9751	CA	SER	1027	6.158	105.136	49.547	1.00	0.00	C
ATOM	9752	CB	SER	1027	6.394	103.618	49.523	1.00	0.00	C
ATOM	9753	OG	SER	1027	5.221	102.933	49.924	1.00	0.00	O
ATOM	9754	HG	SER	1027	5.367	101.994	49.909	1.00	0.00	H
ATOM	9755	C	SER	1027	7.508	105.756	49.417	1.00	0.00	C
ATOM	9756	O	SER	1027	7.765	106.579	48.539	1.00	0.00	O
ATOM	9757	N	GLN	1028	8.422	105.319	50.309	1.00	0.00	N
ATOM	9758	HN	GLN	1028	8.183	104.542	50.925	1.00	0.00	H
ATOM	9759	CA	GLN	1028	9.714	105.917	50.411	1.00	0.00	C
ATOM	9760	CB	GLN	1028	10.598	105.190	51.435	1.00	0.00	C
ATOM	9761	CG	GLN	1028	10.035	105.310	52.853	1.00	0.00	C
ATOM	9762	CD	GLN	1028	10.866	104.442	53.783	1.00	0.00	C
ATOM	9763	OE1	GLN	1028	11.013	104.742	54.967	1.00	0.00	O
ATOM	9764	NE2	GLN	1028	11.415	103.325	53.237	1.00	0.00	N
ATOM	9765	1HE2	GLN	1028	11.293	103.076	52.255	1.00	0.00	H

ATOM	9766	2HE2	GLN	1028	11.973	102.742	53.861	1.00	0.00	H
ATOM	9767	C	GLN	1028	10.384	105.885	49.080	1.00	0.00	C
ATOM	9768	O	GLN	1028	10.705	106.943	48.543	1.00	0.00	O
ATOM	9769	N	GLU	1029	10.546	104.700	48.465	1.00	0.00	N
ATOM	9770	HN	GLU	1029	10.226	103.834	48.898	1.00	0.00	H
ATOM	9771	CA	GLU	1029	11.184	104.694	47.180	1.00	0.00	C
ATOM	9772	CB	GLU	1029	12.170	103.523	46.987	1.00	0.00	C
ATOM	9773	CG	GLU	1029	11.563	102.131	47.185	1.00	0.00	C
ATOM	9774	CD	GLU	1029	11.120	101.596	45.836	1.00	0.00	C
ATOM	9775	OE1	GLU	1029	11.961	101.609	44.898	1.00	0.00	O
ATOM	9776	OE2	GLU	1029	9.938	101.174	45.721	1.00	0.00	O
ATOM	9777	C	GLU	1029	10.097	104.628	46.154	1.00	0.00	C
ATOM	9778	O	GLU	1029	9.339	103.664	46.066	1.00	0.00	O
ATOM	9779	N	PRO	1030	10.005	105.673	45.381	1.00	0.00	N
ATOM	9780	CA	PRO	1030	9.026	105.778	44.338	1.00	0.00	C
ATOM	9781	CD	PRO	1030	10.565	106.966	45.733	1.00	0.00	C
ATOM	9782	CB	PRO	1030	8.884	107.272	44.036	1.00	0.00	C
ATOM	9783	CG	PRO	1030	10.185	107.892	44.567	1.00	0.00	C
ATOM	9784	C	PRO	1030	9.576	105.005	43.189	1.00	0.00	C
ATOM	9785	O	PRO	1030	10.511	104.231	43.392	1.00	0.00	O
ATOM	9786	N	ILE	1031	8.934	105.087	42.011	1.00	0.00	N
ATOM	9787	HN	ILE	1031	8.053	105.595	41.940	1.00	0.00	H
ATOM	9788	CA	ILE	1031	9.500	104.453	40.855	1.00	0.00	C
ATOM	9789	CB	ILE	1031	9.723	102.981	41.035	1.00	0.00	C
ATOM	9790	CG1	ILE	1031	10.339	102.362	39.770	1.00	0.00	C
ATOM	9791	CG2	ILE	1031	8.384	102.350	41.451	1.00	0.00	C
ATOM	9792	CD1	ILE	1031	11.728	102.897	39.429	1.00	0.00	C
ATOM	9793	C	ILE	1031	8.573	104.649	39.702	1.00	0.00	C
ATOM	9794	O	ILE	1031	7.388	104.919	39.891	1.00	0.00	O
ATOM	9795	N	LEU	1032	9.097	104.536	38.465	1.00	0.00	N
ATOM	9796	HN	LEU	1032	10.099	104.386	38.343	1.00	0.00	H
ATOM	9797	CA	LEU	1032	8.235	104.628	37.320	1.00	0.00	C
ATOM	9798	CB	LEU	1032	8.119	106.029	36.676	1.00	0.00	C
ATOM	9799	CG	LEU	1032	7.729	107.219	37.577	1.00	0.00	C
ATOM	9800	CD1	LEU	1032	6.428	106.969	38.346	1.00	0.00	C
ATOM	9801	CD2	LEU	1032	8.900	107.700	38.441	1.00	0.00	C
ATOM	9802	C	LEU	1032	8.856	103.829	36.214	1.00	0.00	C
ATOM	9803	O	LEU	1032	10.070	103.862	36.017	1.00	0.00	O
ATOM	9804	N	PHE	1033	8.017	103.110	35.443	1.00	0.00	N
ATOM	9805	HN	PHE	1033	7.030	103.070	35.698	1.00	0.00	H
ATOM	9806	CA	PHE	1033	8.458	102.397	34.276	1.00	0.00	C
ATOM	9807	CB	PHE	1033	7.397	101.399	33.769	1.00	0.00	C
ATOM	9808	CG	PHE	1033	7.971	100.553	32.685	1.00	0.00	C
ATOM	9809	CD1	PHE	1033	8.995	99.680	32.964	1.00	0.00	C
ATOM	9810	CD2	PHE	1033	7.461	100.593	31.408	1.00	0.00	C
ATOM	9811	CE1	PHE	1033	9.525	98.884	31.978	1.00	0.00	C
ATOM	9812	CE2	PHE	1033	7.989	99.797	30.419	1.00	0.00	C
ATOM	9813	CZ	PHE	1033	9.026	98.941	30.700	1.00	0.00	C
ATOM	9814	C	PHE	1033	8.679	103.480	33.252	1.00	0.00	C
ATOM	9815	O	PHE	1033	8.083	104.550	33.346	1.00	0.00	O
ATOM	9816	N	ASP	1034	9.497	103.189	32.224	1.00	0.00	N
ATOM	9817	HN	ASP	1034	9.765	102.208	32.150	1.00	0.00	H
ATOM	9818	CA	ASP	1034	10.053	104.050	31.211	1.00	0.00	C
ATOM	9819	CB	ASP	1034	11.213	103.411	30.423	1.00	0.00	C
ATOM	9820	CG	ASP	1034	10.775	102.063	29.881	1.00	0.00	C
ATOM	9821	OD1	ASP	1034	10.714	101.108	30.701	1.00	0.00	O
ATOM	9822	OD2	ASP	1034	10.521	101.959	28.652	1.00	0.00	O
ATOM	9823	C	ASP	1034	9.095	104.716	30.263	1.00	0.00	C
ATOM	9824	O	ASP	1034	9.511	105.110	29.175	1.00	0.00	O
ATOM	9825	N	CYS	1035	7.780	104.734	30.539	1.00	0.00	N
ATOM	9826	HN	CYS	1035	7.398	104.228	31.338	1.00	0.00	H
ATOM	9827	CA	CYS	1035	6.933	105.498	29.658	1.00	0.00	C
ATOM	9828	CB	CYS	1035	5.430	105.282	29.904	1.00	0.00	C
ATOM	9829	SG	CYS	1035	4.920	103.560	29.623	1.00	0.00	S
ATOM	9830	C	CYS	1035	7.231	106.951	29.908	1.00	0.00	C
ATOM	9831	O	CYS	1035	7.952	107.299	30.841	1.00	0.00	O
ATOM	9832	N	SER	1036	6.716	107.853	29.045	1.00	0.00	N
ATOM	9833	HN	SER	1036	6.178	107.546	28.235	1.00	0.00	H
ATOM	9834	CA	SER	1036	6.937	109.246	29.284	1.00	0.00	C
ATOM	9835	CB	SER	1036	6.359	110.154	28.186	1.00	0.00	C
ATOM	9836	OG	SER	1036	4.950	109.985	28.107	1.00	0.00	O
ATOM	9837	HG	SER	1036	4.593	110.546	27.429	1.00	0.00	H
ATOM	9838	C	SER	1036	6.223	109.536	30.564	1.00	0.00	C
ATOM	9839	O	SER	1036	5.369	108.761	30.988	1.00	0.00	O

ATOM	9840	N	ILE	1037	6.554	110.658	31.226	1.00	0.00	N
ATOM	9841	HN	ILE	1037	7.237	111.304	30.830	1.00	0.00	H
ATOM	9842	CA	ILE	1037	5.943	110.943	32.491	1.00	0.00	C
ATOM	9843	CB	ILE	1037	6.394	112.232	33.099	1.00	0.00	C
ATOM	9844	CG1	ILE	1037	5.974	113.397	32.190	1.00	0.00	C
ATOM	9845	CG2	ILE	1037	7.907	112.138	33.365	1.00	0.00	C
ATOM	9846	CD1	ILE	1037	5.972	114.752	32.889	1.00	0.00	C
ATOM	9847	C	ILE	1037	4.471	111.078	32.273	1.00	0.00	C
ATOM	9848	O	ILE	1037	3.677	110.741	33.149	1.00	0.00	O
ATOM	9849	N	ALA	1038	4.060	111.601	31.103	1.00	0.00	N
ATOM	9850	HN	ALA	1038	4.742	111.858	30.389	1.00	0.00	H
ATOM	9851	CA	ALA	1038	2.659	111.795	30.864	1.00	0.00	C
ATOM	9852	CB	ALA	1038	2.369	112.322	29.448	1.00	0.00	C
ATOM	9853	C	ALA	1038	1.948	110.480	31.010	1.00	0.00	C
ATOM	9854	O	ALA	1038	0.854	110.427	31.571	1.00	0.00	O
ATOM	9855	N	GLU	1039	2.530	109.390	30.474	1.00	0.00	N
ATOM	9856	HN	GLU	1039	3.418	109.496	29.983	1.00	0.00	H
ATOM	9857	CA	GLU	1039	1.940	108.081	30.571	1.00	0.00	C
ATOM	9858	CB	GLU	1039	2.649	107.056	29.671	1.00	0.00	C
ATOM	9859	CG	GLU	1039	2.589	107.411	28.182	1.00	0.00	C
ATOM	9860	CD	GLU	1039	1.134	107.449	27.730	1.00	0.00	C
ATOM	9861	OE1	GLU	1039	0.232	107.254	28.587	1.00	0.00	O
ATOM	9862	OE2	GLU	1039	0.909	107.681	26.511	1.00	0.00	O
ATOM	9863	C	GLU	1039	2.032	107.590	31.985	1.00	0.00	C
ATOM	9864	O	GLU	1039	1.076	107.044	32.536	1.00	0.00	O
ATOM	9865	N	ASN	1040	3.197	107.795	32.627	1.00	0.00	N
ATOM	9866	HN	ASN	1040	3.951	108.297	32.159	1.00	0.00	H
ATOM	9867	CA	ASN	1040	3.385	107.313	33.962	1.00	0.00	C
ATOM	9868	CB	ASN	1040	4.753	107.685	34.566	1.00	0.00	C
ATOM	9869	CG	ASN	1040	5.833	106.805	33.946	1.00	0.00	C
ATOM	9870	OD1	ASN	1040	7.015	107.144	33.976	1.00	0.00	O
ATOM	9871	ND2	ASN	1040	5.421	105.640	33.377	1.00	0.00	N
ATOM	9872	1HD2	ASN	1040	4.441	105.359	33.352	1.00	0.00	H
ATOM	9873	2HD2	ASN	1040	6.143	105.051	32.962	1.00	0.00	H
ATOM	9874	C	ASN	1040	2.342	107.954	34.798	1.00	0.00	C
ATOM	9875	O	ASN	1040	1.628	107.255	35.495	1.00	0.00	O
ATOM	9876	N	ILE	1041	2.151	109.278	34.679	1.00	0.00	N
ATOM	9877	HN	ILE	1041	2.720	109.800	34.013	1.00	0.00	H
ATOM	9878	CA	ILE	1041	1.172	109.984	35.459	1.00	0.00	C
ATOM	9879	CB	ILE	1041	1.002	111.402	34.993	1.00	0.00	C
ATOM	9880	CG1	ILE	1041	2.321	112.183	35.119	1.00	0.00	C
ATOM	9881	CG2	ILE	1041	-0.163	112.024	35.779	1.00	0.00	C
ATOM	9882	CD1	ILE	1041	2.306	113.522	34.381	1.00	0.00	C
ATOM	9883	C	ILE	1041	-0.121	109.275	35.197	1.00	0.00	C
ATOM	9884	O	ILE	1041	-0.859	108.916	36.110	1.00	0.00	O
ATOM	9885	N	ALA	1042	-0.300	108.910	33.924	1.00	0.00	N
ATOM	9886	HN	ALA	1042	0.467	109.134	33.290	1.00	0.00	H
ATOM	9887	CA	ALA	1042	-1.420	108.248	33.328	1.00	0.00	C
ATOM	9888	CB	ALA	1042	-1.323	108.122	31.796	1.00	0.00	C
ATOM	9889	C	ALA	1042	-1.621	106.884	33.903	1.00	0.00	C
ATOM	9890	O	ALA	1042	-2.549	106.220	33.449	1.00	0.00	O
ATOM	9891	N	TYR	1043	-0.683	106.398	34.763	1.00	0.00	N
ATOM	9892	HN	TYR	1043	0.043	107.050	35.059	1.00	0.00	H
ATOM	9893	CA	TYR	1043	-0.604	105.056	35.303	1.00	0.00	C
ATOM	9894	CB	TYR	1043	-0.139	104.876	36.765	1.00	0.00	C
ATOM	9895	CG	TYR	1043	1.344	104.867	36.794	1.00	0.00	C
ATOM	9896	CD1	TYR	1043	2.030	103.979	36.000	1.00	0.00	C
ATOM	9897	CD2	TYR	1043	2.046	105.686	37.647	1.00	0.00	C
ATOM	9898	CE1	TYR	1043	3.402	103.946	36.009	1.00	0.00	C
ATOM	9899	CE2	TYR	1043	3.419	105.660	37.657	1.00	0.00	C
ATOM	9900	CZ	TYR	1043	4.096	104.797	36.833	1.00	0.00	C
ATOM	9901	OH	TYR	1043	5.503	104.771	36.844	1.00	0.00	O
ATOM	9902	HH	TYR	1043	5.983	105.360	37.414	1.00	0.00	H
ATOM	9903	C	TYR	1043	-1.895	104.366	35.249	1.00	0.00	C
ATOM	9904	O	TYR	1043	-2.794	104.677	36.023	1.00	0.00	O
ATOM	9905	N	GLY	1044	-1.993	103.579	34.156	1.00	0.00	N
ATOM	9906	HN	GLY	1044	-1.235	103.732	33.491	1.00	0.00	H
ATOM	9907	CA	GLY	1044	-2.921	102.577	33.719	1.00	0.00	C
ATOM	9908	C	GLY	1044	-3.572	101.843	34.839	1.00	0.00	C
ATOM	9909	O	GLY	1044	-3.620	100.617	34.813	1.00	0.00	O
ATOM	9910	N	ASP	1045	-4.143	102.541	35.816	1.00	0.00	N
ATOM	9911	HN	ASP	1045	-4.179	103.558	35.743	1.00	0.00	H
ATOM	9912	CA	ASP	1045	-4.703	101.914	36.955	1.00	0.00	C
ATOM	9913	CB	ASP	1045	-5.173	102.966	37.974	1.00	0.00	C

ATOM	9914	CG	ASP	1045	-5.775	104.124	37.194	1.00	0.00	C
ATOM	9915	OD1	ASP	1045	-6.448	103.882	36.158	1.00	0.00	O
ATOM	9916	OD2	ASP	1045	-5.509	105.284	37.607	1.00	0.00	O
ATOM	9917	C	ASP	1045	-5.761	100.985	36.480	1.00	0.00	C
ATOM	9918	O	ASP	1045	-5.977	99.922	37.059	1.00	0.00	O
ATOM	9919	N	ASN	1046	-6.426	101.351	35.377	1.00	0.00	N
ATOM	9920	HN	ASN	1046	-6.219	102.240	34.922	1.00	0.00	H
ATOM	9921	CA	ASN	1046	-7.428	100.483	34.845	1.00	0.00	C
ATOM	9922	CB	ASN	1046	-8.693	100.444	35.721	1.00	0.00	C
ATOM	9923	CG	ASN	1046	-9.169	101.871	35.956	1.00	0.00	C
ATOM	9924	OD1	ASN	1046	-9.899	102.442	35.148	1.00	0.00	O
ATOM	9925	ND2	ASN	1046	-8.749	102.461	37.109	1.00	0.00	N
ATOM	9926	1HD2	ASN	1046	-9.068	103.417	37.266	1.00	0.00	H
ATOM	9927	2HD2	ASN	1046	-8.143	101.987	37.779	1.00	0.00	H
ATOM	9928	C	ASN	1046	-7.776	100.973	33.485	1.00	0.00	C
ATOM	9929	O	ASN	1046	-6.950	101.542	32.772	1.00	0.00	O
ATOM	9930	N	SER	1047	-9.056	100.797	33.108	1.00	0.00	N
ATOM	9931	HN	SER	1047	-9.703	100.368	33.769	1.00	0.00	H
ATOM	9932	CA	SER	1047	-9.552	101.185	31.819	1.00	0.00	C
ATOM	9933	CB	SER	1047	-11.040	100.858	31.623	1.00	0.00	C
ATOM	9934	OG	SER	1047	-11.452	101.272	30.330	1.00	0.00	O
ATOM	9935	HG	SER	1047	-12.372	101.070	30.209	1.00	0.00	H
ATOM	9936	C	SER	1047	-9.396	102.663	31.690	1.00	0.00	C
ATOM	9937	O	SER	1047	-9.538	103.213	30.599	1.00	0.00	O
ATOM	9938	N	ARG	1048	-9.100	103.336	32.818	1.00	0.00	N
ATOM	9939	HN	ARG	1048	-9.011	102.815	33.690	1.00	0.00	H
ATOM	9940	CA	ARG	1048	-8.907	104.745	32.841	1.00	0.00	C
ATOM	9941	CB	ARG	1048	-8.383	105.220	34.200	1.00	0.00	C
ATOM	9942	CG	ARG	1048	-8.118	106.712	34.245	1.00	0.00	C
ATOM	9943	CD	ARG	1048	-8.428	107.342	35.600	1.00	0.00	C
ATOM	9944	NE	ARG	1048	-9.913	107.330	35.740	1.00	0.00	N
ATOM	9945	HE	ARG	1048	-10.365	106.637	36.336	1.00	0.00	H
ATOM	9946	CZ	ARG	1048	-10.665	108.251	35.066	1.00	0.00	C
ATOM	9947	NH1	ARG	1048	-10.058	109.149	34.237	1.00	0.00	N
ATOM	9948	1HH1	ARG	1048	-9.044	109.136	34.130	1.00	0.00	H
ATOM	9949	2HH1	ARG	1048	-10.619	109.836	33.734	1.00	0.00	H
ATOM	9950	NH2	ARG	1048	-12.022	108.269	35.209	1.00	0.00	N
ATOM	9951	1HH2	ARG	1048	-12.476	107.598	35.829	1.00	0.00	H
ATOM	9952	2HH2	ARG	1048	-12.583	108.956	34.706	1.00	0.00	H
ATOM	9953	C	ARG	1048	-7.945	105.100	31.752	1.00	0.00	C
ATOM	9954	O	ARG	1048	-6.784	104.694	31.744	1.00	0.00	O
ATOM	9955	N	VAL	1049	-8.458	105.872	30.778	1.00	0.00	N
ATOM	9956	HN	VAL	1049	-9.426	106.182	30.867	1.00	0.00	H
ATOM	9957	CA	VAL	1049	-7.720	106.282	29.623	1.00	0.00	C
ATOM	9958	CB	VAL	1049	-8.589	106.716	28.480	1.00	0.00	C
ATOM	9959	CG1	VAL	1049	-9.408	107.942	28.921	1.00	0.00	C
ATOM	9960	CG2	VAL	1049	-7.693	106.971	27.256	1.00	0.00	C
ATOM	9961	C	VAL	1049	-6.869	107.434	30.023	1.00	0.00	C
ATOM	9962	O	VAL	1049	-7.124	108.065	31.047	1.00	0.00	O
ATOM	9963	N	VAL	1050	-5.810	107.716	29.233	1.00	0.00	N
ATOM	9964	HN	VAL	1050	-5.632	107.164	28.394	1.00	0.00	H
ATOM	9965	CA	VAL	1050	-4.940	108.796	29.585	1.00	0.00	C
ATOM	9966	CB	VAL	1050	-3.654	108.825	28.805	1.00	0.00	C
ATOM	9967	CG1	VAL	1050	-2.790	107.652	29.278	1.00	0.00	C
ATOM	9968	CG2	VAL	1050	-3.965	108.761	27.298	1.00	0.00	C
ATOM	9969	C	VAL	1050	-5.644	110.098	29.379	1.00	0.00	C
ATOM	9970	O	VAL	1050	-5.439	110.797	28.387	1.00	0.00	O
ATOM	9971	N	SER	1051	-6.470	110.487	30.366	1.00	0.00	N
ATOM	9972	HN	SER	1051	-6.596	109.897	31.188	1.00	0.00	H
ATOM	9973	CA	SER	1051	-7.171	111.727	30.263	1.00	0.00	C
ATOM	9974	CB	SER	1051	-8.174	111.940	31.412	1.00	0.00	C
ATOM	9975	OG	SER	1051	-8.844	113.184	31.268	1.00	0.00	O
ATOM	9976	HG	SER	1051	-9.463	113.315	31.977	1.00	0.00	H
ATOM	9977	C	SER	1051	-6.128	112.788	30.358	1.00	0.00	C
ATOM	9978	O	SER	1051	-5.505	112.964	31.402	1.00	0.00	O
ATOM	9979	N	GLN	1052	-5.934	113.556	29.273	1.00	0.00	N
ATOM	9980	HN	GLN	1052	-6.538	113.455	28.458	1.00	0.00	H
ATOM	9981	CA	GLN	1052	-4.871	114.520	29.269	1.00	0.00	C
ATOM	9982	CB	GLN	1052	-4.802	115.287	27.937	1.00	0.00	C
ATOM	9983	CG	GLN	1052	-3.688	116.333	27.868	1.00	0.00	C
ATOM	9984	CD	GLN	1052	-3.764	117.004	26.502	1.00	0.00	C
ATOM	9985	OE1	GLN	1052	-2.952	117.868	26.173	1.00	0.00	O
ATOM	9986	NE2	GLN	1052	-4.769	116.597	25.681	1.00	0.00	N
ATOM	9987	1HE2	GLN	1052	-4.820	117.046	24.767	1.00	0.00	H

ATOM	9988	2HE2	GLN	1052	-5.442	115.881	25.954	1.00	0.00	H
ATOM	9989	C	GLN	1052	-5.092	115.529	30.351	1.00	0.00	C
ATOM	9990	O	GLN	1052	-4.237	115.733	31.209	1.00	0.00	O
ATOM	9991	N	GLU	1053	-6.291	116.128	30.397	1.00	0.00	N
ATOM	9992	HN	GLU	1053	-7.021	115.840	29.746	1.00	0.00	H
ATOM	9993	CA	GLU	1053	-6.562	117.166	31.347	1.00	0.00	C
ATOM	9994	CB	GLU	1053	-8.015	117.646	31.265	1.00	0.00	C
ATOM	9995	CG	GLU	1053	-8.395	118.133	29.870	1.00	0.00	C
ATOM	9996	CD	GLU	1053	-8.671	116.903	29.013	1.00	0.00	C
ATOM	9997	OE1	GLU	1053	-8.760	115.785	29.589	1.00	0.00	O
ATOM	9998	OE2	GLU	1053	-8.805	117.064	27.771	1.00	0.00	O
ATOM	9999	C	GLU	1053	-6.398	116.541	32.682	1.00	0.00	C
ATOM	10000	O	GLU	1053	-5.989	117.179	33.651	1.00	0.00	O
ATOM	10001	N	GLU	1054	-6.752	115.254	32.773	1.00	0.00	N
ATOM	10002	HN	GLU	1054	-7.113	114.743	31.967	1.00	0.00	H
ATOM	10003	CA	GLU	1054	-6.603	114.629	34.045	1.00	0.00	C
ATOM	10004	CB	GLU	1054	-7.081	113.174	34.086	1.00	0.00	C
ATOM	10005	CG	GLU	1054	-6.964	112.599	35.498	1.00	0.00	C
ATOM	10006	CD	GLU	1054	-7.037	111.087	35.418	1.00	0.00	C
ATOM	10007	OE1	GLU	1054	-6.182	110.505	34.702	1.00	0.00	O
ATOM	10008	OE2	GLU	1054	-7.936	110.495	36.072	1.00	0.00	O
ATOM	10009	C	GLU	1054	-5.149	114.587	34.408	1.00	0.00	C
ATOM	10010	O	GLU	1054	-4.766	115.023	35.492	1.00	0.00	O
ATOM	10011	N	ILE	1055	-4.285	114.127	33.479	1.00	0.00	N
ATOM	10012	HN	ILE	1055	-4.617	113.889	32.544	1.00	0.00	H
ATOM	10013	CA	ILE	1055	-2.896	113.973	33.810	1.00	0.00	C
ATOM	10014	CB	ILE	1055	-2.037	113.389	32.715	1.00	0.00	C
ATOM	10015	CG1	ILE	1055	-1.921	114.324	31.505	1.00	0.00	C
ATOM	10016	CG2	ILE	1055	-2.604	112.000	32.372	1.00	0.00	C
ATOM	10017	CD1	ILE	1055	-0.873	113.877	30.488	1.00	0.00	C
ATOM	10018	C	ILE	1055	-2.366	115.321	34.185	1.00	0.00	C
ATOM	10019	O	ILE	1055	-1.446	115.422	34.997	1.00	0.00	O
ATOM	10020	N	VAL	1056	-2.873	116.392	33.540	1.00	0.00	N
ATOM	10021	HN	VAL	1056	-3.554	116.267	32.791	1.00	0.00	H
ATOM	10022	CA	VAL	1056	-2.444	117.711	33.918	1.00	0.00	C
ATOM	10023	CB	VAL	1056	-2.725	118.827	32.939	1.00	0.00	C
ATOM	10024	CG1	VAL	1056	-1.953	118.528	31.649	1.00	0.00	C
ATOM	10025	CG2	VAL	1056	-4.222	119.036	32.724	1.00	0.00	C
ATOM	10026	C	VAL	1056	-2.976	118.056	35.274	1.00	0.00	C
ATOM	10027	O	VAL	1056	-2.314	118.744	36.050	1.00	0.00	O
ATOM	10028	N	ARG	1057	-4.188	117.579	35.608	1.00	0.00	N
ATOM	10029	HN	ARG	1057	-4.710	117.000	34.951	1.00	0.00	H
ATOM	10030	CA	ARG	1057	-4.742	117.889	36.893	1.00	0.00	C
ATOM	10031	CB	ARG	1057	-6.098	117.198	37.110	1.00	0.00	C
ATOM	10032	CG	ARG	1057	-6.916	117.809	38.245	1.00	0.00	C
ATOM	10033	CD	ARG	1057	-7.366	119.236	37.930	1.00	0.00	C
ATOM	10034	NE	ARG	1057	-7.982	119.208	36.573	1.00	0.00	N
ATOM	10035	HE	ARG	1057	-8.161	118.314	36.115	1.00	0.00	H
ATOM	10036	CZ	ARG	1057	-8.308	120.374	35.940	1.00	0.00	C
ATOM	10037	NH1	ARG	1057	-8.057	121.571	36.544	1.00	0.00	N
ATOM	10038	1HH1	ARG	1057	-7.625	121.596	37.468	1.00	0.00	H
ATOM	10039	2HH1	ARG	1057	-8.300	122.442	36.071	1.00	0.00	H
ATOM	10040	NH2	ARG	1057	-8.886	120.341	34.703	1.00	0.00	N
ATOM	10041	1HH2	ARG	1057	-9.074	119.446	34.251	1.00	0.00	H
ATOM	10042	2HH2	ARG	1057	-9.129	121.212	34.230	1.00	0.00	H
ATOM	10043	C	ARG	1057	-3.780	117.351	37.905	1.00	0.00	C
ATOM	10044	O	ARG	1057	-3.441	118.020	38.882	1.00	0.00	O
ATOM	10045	N	ALA	1058	-3.295	116.117	37.674	1.00	0.00	N
ATOM	10046	HN	ALA	1058	-3.586	115.607	36.840	1.00	0.00	H
ATOM	10047	CA	ALA	1058	-2.375	115.514	38.588	1.00	0.00	C
ATOM	10048	CB	ALA	1058	-1.954	114.103	38.157	1.00	0.00	C
ATOM	10049	C	ALA	1058	-1.140	116.341	38.636	1.00	0.00	C
ATOM	10050	O	ALA	1058	-0.753	116.781	39.705	1.00	0.00	O
ATOM	10051	N	ALA	1059	-0.561	116.696	37.479	1.00	0.00	N
ATOM	10052	HN	ALA	1059	-1.014	116.436	36.603	1.00	0.00	H
ATOM	10053	CA	ALA	1059	0.674	117.429	37.428	1.00	0.00	C
ATOM	10054	CB	ALA	1059	1.022	117.850	35.993	1.00	0.00	C
ATOM	10055	C	ALA	1059	0.482	118.687	38.211	1.00	0.00	C
ATOM	10056	O	ALA	1059	1.412	119.182	38.848	1.00	0.00	O
ATOM	10057	N	LYS	1060	-0.741	119.247	38.161	1.00	0.00	N
ATOM	10058	HN	LYS	1060	-1.487	118.805	37.623	1.00	0.00	H
ATOM	10059	CA	LYS	1060	-0.987	120.467	38.868	1.00	0.00	C
ATOM	10060	CB	LYS	1060	-2.425	120.968	38.651	1.00	0.00	C
ATOM	10061	CG	LYS	1060	-2.773	121.204	37.179	1.00	0.00	C

ATOM	10062	CD	LYS	1060	-1.926	122.277	36.496	1.00	0.00	C
ATOM	10063	CE	LYS	1060	-2.122	122.324	34.979	1.00	0.00	C
ATOM	10064	NZ	LYS	1060	-3.542	122.592	34.656	1.00	0.00	N
ATOM	10065	HZ1	LYS	1060	-3.673	122.623	33.645	1.00	0.00	H
ATOM	10066	HZ2	LYS	1060	-3.883	123.439	35.111	1.00	0.00	H
ATOM	10067	HZ3	LYS	1060	-4.168	121.920	35.101	1.00	0.00	H
ATOM	10068	C	LYS	1060	-0.802	120.283	40.351	1.00	0.00	C
ATOM	10069	O	LYS	1060	0.162	120.778	40.930	1.00	0.00	O
ATOM	10070	N	GLU	1061	-1.668	119.471	40.991	1.00	0.00	N
ATOM	10071	HN	GLU	1061	-2.358	118.960	40.441	1.00	0.00	H
ATOM	10072	CA	GLU	1061	-1.657	119.297	42.422	1.00	0.00	C
ATOM	10073	CB	GLU	1061	-2.826	118.442	42.932	1.00	0.00	C
ATOM	10074	CG	GLU	1061	-2.858	118.333	44.455	1.00	0.00	C
ATOM	10075	CD	GLU	1061	-3.178	119.718	45.001	1.00	0.00	C
ATOM	10076	OE1	GLU	1061	-4.043	120.407	44.398	1.00	0.00	O
ATOM	10077	OE2	GLU	1061	-2.560	120.104	46.029	1.00	0.00	O
ATOM	10078	C	GLU	1061	-0.390	118.612	42.807	1.00	0.00	C
ATOM	10079	O	GLU	1061	0.096	118.728	43.930	1.00	0.00	O
ATOM	10080	N	ALA	1062	0.142	117.827	41.869	1.00	0.00	N
ATOM	10081	HN	ALA	1062	-0.339	117.767	40.971	1.00	0.00	H
ATOM	10082	CA	ALA	1062	1.338	117.064	42.034	1.00	0.00	C
ATOM	10083	CB	ALA	1062	1.714	116.252	40.782	1.00	0.00	C
ATOM	10084	C	ALA	1062	2.442	118.033	42.286	1.00	0.00	C
ATOM	10085	O	ALA	1062	3.289	117.803	43.146	1.00	0.00	O
ATOM	10086	N	ASN	1063	2.416	119.176	41.573	1.00	0.00	N
ATOM	10087	HN	ASN	1063	1.640	119.335	40.931	1.00	0.00	H
ATOM	10088	CA	ASN	1063	3.438	120.181	41.681	1.00	0.00	C
ATOM	10089	CB	ASN	1063	3.841	120.485	43.138	1.00	0.00	C
ATOM	10090	CG	ASN	1063	2.652	121.109	43.851	1.00	0.00	C
ATOM	10091	OD1	ASN	1063	2.228	122.216	43.526	1.00	0.00	O
ATOM	10092	ND2	ASN	1063	2.089	120.381	44.851	1.00	0.00	N
ATOM	10093	1HD2	ASN	1063	1.291	120.800	45.329	1.00	0.00	H
ATOM	10094	2HD2	ASN	1063	2.441	119.462	45.121	1.00	0.00	H
ATOM	10095	C	ASN	1063	4.669	119.706	40.973	1.00	0.00	C
ATOM	10096	O	ASN	1063	5.768	120.206	41.200	1.00	0.00	O
ATOM	10097	N	ILE	1064	4.501	118.671	40.138	1.00	0.00	N
ATOM	10098	HN	ILE	1064	3.591	118.210	40.159	1.00	0.00	H
ATOM	10099	CA	ILE	1064	5.467	118.144	39.218	1.00	0.00	C
ATOM	10100	CB	ILE	1064	5.111	116.777	38.715	1.00	0.00	C
ATOM	10101	CG1	ILE	1064	6.253	116.222	37.850	1.00	0.00	C
ATOM	10102	CG2	ILE	1064	3.754	116.868	37.997	1.00	0.00	C
ATOM	10103	CD1	ILE	1064	7.554	116.013	38.623	1.00	0.00	C
ATOM	10104	C	ILE	1064	5.514	119.084	38.062	1.00	0.00	C
ATOM	10105	O	ILE	1064	6.470	119.131	37.289	1.00	0.00	O
ATOM	10106	N	HIS	1065	4.410	119.831	37.908	1.00	0.00	N
ATOM	10107	HN	HIS	1065	3.706	119.785	38.645	1.00	0.00	H
ATOM	10108	CA	HIS	1065	4.141	120.685	36.795	1.00	0.00	C
ATOM	10109	ND1	HIS	1065	2.842	122.862	34.825	1.00	0.00	N
ATOM	10110	HD1	HIS	1065	3.710	123.372	34.988	1.00	0.00	H
ATOM	10111	CG	HIS	1065	2.267	121.930	35.659	1.00	0.00	C
ATOM	10112	CB	HIS	1065	2.840	121.484	36.970	1.00	0.00	C
ATOM	10113	NE2	HIS	1065	0.977	122.177	33.824	1.00	0.00	N
ATOM	10114	HE2	HIS	1065	0.221	122.071	33.147	1.00	0.00	H
ATOM	10115	CD2	HIS	1065	1.129	121.523	35.033	1.00	0.00	C
ATOM	10116	CE1	HIS	1065	2.030	122.970	33.743	1.00	0.00	C
ATOM	10117	C	HIS	1065	5.270	121.655	36.633	1.00	0.00	C
ATOM	10118	O	HIS	1065	5.508	122.130	35.526	1.00	0.00	O
ATOM	10119	N	ALA	1066	6.000	121.984	37.718	1.00	0.00	N
ATOM	10120	HN	ALA	1066	5.790	121.560	38.621	1.00	0.00	H
ATOM	10121	CA	ALA	1066	7.075	122.933	37.602	1.00	0.00	C
ATOM	10122	CB	ALA	1066	7.870	123.101	38.907	1.00	0.00	C
ATOM	10123	C	ALA	1066	8.023	122.429	36.553	1.00	0.00	C
ATOM	10124	O	ALA	1066	8.576	123.213	35.784	1.00	0.00	O
ATOM	10125	N	PHE	1067	8.267	121.106	36.533	1.00	0.00	N
ATOM	10126	HN	PHE	1067	7.858	120.532	37.271	1.00	0.00	H
ATOM	10127	CA	PHE	1067	9.068	120.453	35.536	1.00	0.00	C
ATOM	10128	CB	PHE	1067	9.458	119.024	35.947	1.00	0.00	C
ATOM	10129	CG	PHE	1067	10.512	119.176	36.989	1.00	0.00	C
ATOM	10130	CD1	PHE	1067	10.201	119.616	38.255	1.00	0.00	C
ATOM	10131	CD2	PHE	1067	11.819	118.867	36.693	1.00	0.00	C
ATOM	10132	CE1	PHE	1067	11.188	119.755	39.202	1.00	0.00	C
ATOM	10133	CE2	PHE	1067	12.811	119.003	37.633	1.00	0.00	C
ATOM	10134	CZ	PHE	1067	12.493	119.451	38.891	1.00	0.00	C
ATOM	10135	C	PHE	1067	8.313	120.403	34.243	1.00	0.00	C

ATOM	10136	O	PHE	1067	8.884	120.520	33.162	1.00	0.00	O
ATOM	10137	N	ILE	1068	6.991	120.198	34.332	1.00	0.00	N
ATOM	10138	HN	ILE	1068	6.572	120.157	35.261	1.00	0.00	H
ATOM	10139	CA	ILE	1068	6.134	120.033	33.196	1.00	0.00	C
ATOM	10140	CB	ILE	1068	4.779	119.596	33.630	1.00	0.00	C
ATOM	10141	CG1	ILE	1068	4.952	118.193	34.228	1.00	0.00	C
ATOM	10142	CG2	ILE	1068	3.807	119.674	32.442	1.00	0.00	C
ATOM	10143	CD1	ILE	1068	3.846	117.772	35.177	1.00	0.00	C
ATOM	10144	C	ILE	1068	6.054	121.271	32.361	1.00	0.00	C
ATOM	10145	O	ILE	1068	6.036	121.189	31.135	1.00	0.00	O
ATOM	10146	N	GLU	1069	5.987	122.459	32.984	1.00	0.00	N
ATOM	10147	HN	GLU	1069	6.051	122.515	34.000	1.00	0.00	H
ATOM	10148	CA	GLU	1069	5.825	123.645	32.199	1.00	0.00	C
ATOM	10149	CB	GLU	1069	5.821	124.908	33.076	1.00	0.00	C
ATOM	10150	CG	GLU	1069	4.687	124.952	34.100	1.00	0.00	C
ATOM	10151	CD	GLU	1069	4.975	126.102	35.054	1.00	0.00	C
ATOM	10152	OE1	GLU	1069	5.973	126.831	34.808	1.00	0.00	O
ATOM	10153	OE2	GLU	1069	4.208	126.266	36.041	1.00	0.00	O
ATOM	10154	C	GLU	1069	6.988	123.806	31.259	1.00	0.00	C
ATOM	10155	O	GLU	1069	6.802	123.901	30.047	1.00	0.00	O
ATOM	10156	N	SER	1070	8.217	123.874	31.814	1.00	0.00	N
ATOM	10157	HN	SER	1070	8.297	123.754	32.824	1.00	0.00	H
ATOM	10158	CA	SER	1070	9.421	124.106	31.059	1.00	0.00	C
ATOM	10159	CB	SER	1070	10.585	124.548	31.959	1.00	0.00	C
ATOM	10160	OG	SER	1070	10.255	125.759	32.620	1.00	0.00	O
ATOM	10161	HG	SER	1070	10.975	126.032	33.177	1.00	0.00	H
ATOM	10162	C	SER	1070	9.920	122.921	30.307	1.00	0.00	C
ATOM	10163	O	SER	1070	9.555	122.705	29.150	1.00	0.00	O
ATOM	10164	N	LEU	1071	10.700	122.097	31.056	1.00	0.00	N
ATOM	10165	HN	LEU	1071	10.700	122.290	32.058	1.00	0.00	H
ATOM	10166	CA	LEU	1071	11.527	120.990	30.642	1.00	0.00	C
ATOM	10167	CB	LEU	1071	11.498	119.805	31.612	1.00	0.00	C
ATOM	10168	CG	LEU	1071	12.178	120.123	32.951	1.00	0.00	C
ATOM	10169	CD1	LEU	1071	11.470	121.264	33.698	1.00	0.00	C
ATOM	10170	CD2	LEU	1071	12.313	118.851	33.789	1.00	0.00	C
ATOM	10171	C	LEU	1071	11.122	120.509	29.296	1.00	0.00	C
ATOM	10172	O	LEU	1071	9.960	120.208	29.034	1.00	0.00	O
ATOM	10173	N	PRO	1072	12.118	120.428	28.457	1.00	0.00	N
ATOM	10174	CA	PRO	1072	11.951	120.257	27.042	1.00	0.00	C
ATOM	10175	CD	PRO	1072	13.476	120.162	28.896	1.00	0.00	C
ATOM	10176	CB	PRO	1072	13.313	119.808	26.508	1.00	0.00	C
ATOM	10177	CG	PRO	1072	14.310	120.218	27.606	1.00	0.00	C
ATOM	10178	C	PRO	1072	10.853	119.356	26.588	1.00	0.00	C
ATOM	10179	O	PRO	1072	9.798	119.838	26.205	1.00	0.00	O
ATOM	10180	N	ASN	1073	10.986	118.043	26.698	1.00	0.00	N
ATOM	10181	HN	ASN	1073	11.789	117.624	27.168	1.00	0.00	H
ATOM	10182	CA	ASN	1073	9.946	117.238	26.124	1.00	0.00	C
ATOM	10183	CB	ASN	1073	10.236	115.728	26.176	1.00	0.00	C
ATOM	10184	CG	ASN	1073	11.417	115.434	25.262	1.00	0.00	C
ATOM	10185	OD1	ASN	1073	12.434	114.899	25.699	1.00	0.00	O
ATOM	10186	ND2	ASN	1073	11.282	115.789	23.956	1.00	0.00	N
ATOM	10187	1HD2	ASN	1073	10.438	116.233	23.593	1.00	0.00	H
ATOM	10188	2HD2	ASN	1073	12.073	115.592	23.343	1.00	0.00	H
ATOM	10189	C	ASN	1073	8.662	117.491	26.863	1.00	0.00	C
ATOM	10190	O	ASN	1073	7.583	117.129	26.397	1.00	0.00	O
ATOM	10191	N	LYS	1074	8.761	118.103	28.060	1.00	0.00	N
ATOM	10192	HN	LYS	1074	9.675	118.358	28.434	1.00	0.00	H
ATOM	10193	CA	LYS	1074	7.570	118.392	28.801	1.00	0.00	C
ATOM	10194	CB	LYS	1074	6.515	119.205	28.026	1.00	0.00	C
ATOM	10195	CG	LYS	1074	6.892	120.682	27.881	1.00	0.00	C
ATOM	10196	CD	LYS	1074	6.041	121.456	26.873	1.00	0.00	C
ATOM	10197	CE	LYS	1074	6.684	121.580	25.489	1.00	0.00	C
ATOM	10198	NZ	LYS	1074	6.546	120.309	24.744	1.00	0.00	N
ATOM	10199	HZ1	LYS	1074	6.974	120.392	23.822	1.00	0.00	H
ATOM	10200	HZ2	LYS	1074	5.574	120.005	24.686	1.00	0.00	H
ATOM	10201	HZ3	LYS	1074	6.920	119.518	25.268	1.00	0.00	H
ATOM	10202	C	LYS	1074	7.008	117.067	29.187	1.00	0.00	C
ATOM	10203	O	LYS	1074	7.757	116.140	29.490	1.00	0.00	O
ATOM	10204	N	TYR	1075	5.671	116.929	29.147	1.00	0.00	N
ATOM	10205	HN	TYR	1075	5.091	117.705	28.826	1.00	0.00	H
ATOM	10206	CA	TYR	1075	5.053	115.697	29.553	1.00	0.00	C
ATOM	10207	CB	TYR	1075	3.526	115.625	29.344	1.00	0.00	C
ATOM	10208	CG	TYR	1075	2.787	116.460	30.337	1.00	0.00	C
ATOM	10209	CD1	TYR	1075	2.613	116.002	31.623	1.00	0.00	C

ATOM	10210	CD2	TYR	1075	2.272	117.691	29.997	1.00	0.00	C
ATOM	10211	CE1	TYR	1075	1.927	116.749	32.551	1.00	0.00	C
ATOM	10212	CE2	TYR	1075	1.584	118.444	30.921	1.00	0.00	C
ATOM	10213	CZ	TYR	1075	1.411	117.973	32.200	1.00	0.00	C
ATOM	10214	OH	TYR	1075	0.707	118.741	33.151	1.00	0.00	O
ATOM	10215	HH	TYR	1075	0.587	118.415	34.035	1.00	0.00	H
ATOM	10216	C	TYR	1075	5.620	114.581	28.731	1.00	0.00	C
ATOM	10217	O	TYR	1075	5.778	113.462	29.221	1.00	0.00	O
ATOM	10218	N	SER	1076	5.920	114.860	27.451	1.00	0.00	N
ATOM	10219	HN	SER	1076	5.807	115.818	27.120	1.00	0.00	H
ATOM	10220	CA	SER	1076	6.394	113.864	26.530	1.00	0.00	C
ATOM	10221	CB	SER	1076	6.658	114.435	25.126	1.00	0.00	C
ATOM	10222	OG	SER	1076	5.450	114.925	24.562	1.00	0.00	O
ATOM	10223	HG	SER	1076	5.613	115.278	23.695	1.00	0.00	H
ATOM	10224	C	SER	1076	7.690	113.290	27.017	1.00	0.00	C
ATOM	10225	O	SER	1076	8.034	112.163	26.657	1.00	0.00	O
ATOM	10226	N	THR	1077	8.437	114.043	27.851	1.00	0.00	N
ATOM	10227	HN	THR	1077	8.092	114.954	28.154	1.00	0.00	H
ATOM	10228	CA	THR	1077	9.715	113.575	28.317	1.00	0.00	C
ATOM	10229	CB	THR	1077	10.307	114.446	29.392	1.00	0.00	C
ATOM	10230	OG1	THR	1077	10.434	115.788	28.946	1.00	0.00	O
ATOM	10231	HG1	THR	1077	10.808	116.338	29.625	1.00	0.00	H
ATOM	10232	CG2	THR	1077	11.690	113.885	29.766	1.00	0.00	C
ATOM	10233	C	THR	1077	9.561	112.220	28.927	1.00	0.00	C
ATOM	10234	O	THR	1077	8.853	112.014	29.913	1.00	0.00	O
ATOM	10235	N	LYS	1078	10.264	111.242	28.344	1.00	0.00	N
ATOM	10236	HN	LYS	1078	10.838	111.442	27.525	1.00	0.00	H
ATOM	10237	CA	LYS	1078	10.207	109.913	28.875	1.00	0.00	C
ATOM	10238	CB	LYS	1078	10.972	108.875	28.031	1.00	0.00	C
ATOM	10239	CG	LYS	1078	10.909	107.461	28.617	1.00	0.00	C
ATOM	10240	CD	LYS	1078	11.658	106.402	27.803	1.00	0.00	C
ATOM	10241	CE	LYS	1078	10.931	105.927	26.548	1.00	0.00	C
ATOM	10242	NZ	LYS	1078	11.743	104.899	25.858	1.00	0.00	N
ATOM	10243	HZ1	LYS	1078	11.257	104.582	25.019	1.00	0.00	H
ATOM	10244	HZ2	LYS	1078	11.988	104.125	26.476	1.00	0.00	H
ATOM	10245	HZ3	LYS	1078	12.686	105.229	25.653	1.00	0.00	H
ATOM	10246	C	LYS	1078	10.907	109.988	30.188	1.00	0.00	C
ATOM	10247	O	LYS	1078	11.620	110.944	30.484	1.00	0.00	O
ATOM	10248	N	VAL	1079	10.746	108.948	31.015	1.00	0.00	N
ATOM	10249	HN	VAL	1079	10.134	108.182	30.734	1.00	0.00	H
ATOM	10250	CA	VAL	1079	11.408	108.880	32.283	1.00	0.00	C
ATOM	10251	CB	VAL	1079	11.190	107.575	32.992	1.00	0.00	C
ATOM	10252	CG1	VAL	1079	9.692	107.440	33.311	1.00	0.00	C
ATOM	10253	CG2	VAL	1079	11.754	106.436	32.121	1.00	0.00	C
ATOM	10254	C	VAL	1079	12.868	109.000	31.966	1.00	0.00	C
ATOM	10255	O	VAL	1079	13.658	109.442	32.797	1.00	0.00	O
ATOM	10256	N	GLY	1080	13.265	108.584	30.744	1.00	0.00	N
ATOM	10257	HN	GLY	1080	12.589	108.143	30.120	1.00	0.00	H
ATOM	10258	CA	GLY	1080	14.619	108.752	30.311	1.00	0.00	C
ATOM	10259	C	GLY	1080	15.543	107.823	31.028	1.00	0.00	C
ATOM	10260	O	GLY	1080	16.052	108.139	32.100	1.00	0.00	O
ATOM	10261	N	ASP	1081	15.798	106.650	30.417	1.00	0.00	N
ATOM	10262	HN	ASP	1081	15.333	106.452	29.531	1.00	0.00	H
ATOM	10263	CA	ASP	1081	16.694	105.664	30.955	1.00	0.00	C
ATOM	10264	CB	ASP	1081	18.094	106.239	31.243	1.00	0.00	C
ATOM	10265	CG	ASP	1081	19.046	105.086	31.532	1.00	0.00	C
ATOM	10266	OD1	ASP	1081	18.850	103.991	30.939	1.00	0.00	O
ATOM	10267	OD2	ASP	1081	19.972	105.285	32.363	1.00	0.00	O
ATOM	10268	C	ASP	1081	16.142	105.084	32.219	1.00	0.00	C
ATOM	10269	O	ASP	1081	16.869	104.771	33.161	1.00	0.00	O
ATOM	10270	N	LYS	1082	14.817	104.885	32.245	1.00	0.00	N
ATOM	10271	HN	LYS	1082	14.258	105.196	31.451	1.00	0.00	H
ATOM	10272	CA	LYS	1082	14.158	104.251	33.347	1.00	0.00	C
ATOM	10273	CB	LYS	1082	14.750	102.873	33.693	1.00	0.00	C
ATOM	10274	CG	LYS	1082	14.406	101.791	32.667	1.00	0.00	C
ATOM	10275	CD	LYS	1082	15.011	102.035	31.285	1.00	0.00	C
ATOM	10276	CE	LYS	1082	14.118	102.882	30.377	1.00	0.00	C
ATOM	10277	NZ	LYS	1082	14.714	102.988	29.028	1.00	0.00	N
ATOM	10278	HZ1	LYS	1082	14.118	103.553	28.422	1.00	0.00	H
ATOM	10279	HZ2	LYS	1082	14.908	102.072	28.624	1.00	0.00	H
ATOM	10280	HZ3	LYS	1082	15.670	103.343	29.061	1.00	0.00	H
ATOM	10281	C	LYS	1082	14.172	105.113	34.572	1.00	0.00	C
ATOM	10282	O	LYS	1082	13.831	104.630	35.652	1.00	0.00	O
ATOM	10283	N	GLY	1083	14.478	106.423	34.436	1.00	0.00	N

ATOM	10284	HN	GLY	1083	14.812	106.794	33.546	1.00	0.00	H
ATOM	10285	CA	GLY	1083	14.320	107.278	35.580	1.00	0.00	C
ATOM	10286	C	GLY	1083	15.468	108.205	35.857	1.00	0.00	C
ATOM	10287	O	GLY	1083	15.233	109.411	35.894	1.00	0.00	O
ATOM	10288	N	THR	1084	16.720	107.714	35.999	1.00	0.00	N
ATOM	10289	HN	THR	1084	16.901	106.735	35.777	1.00	0.00	H
ATOM	10290	CA	THR	1084	17.806	108.547	36.458	1.00	0.00	C
ATOM	10291	CB	THR	1084	19.137	107.859	36.400	1.00	0.00	C
ATOM	10292	OG1	THR	1084	19.123	106.689	37.203	1.00	0.00	O
ATOM	10293	HG1	THR	1084	18.457	106.085	36.897	1.00	0.00	H
ATOM	10294	CG2	THR	1084	20.215	108.837	36.895	1.00	0.00	C
ATOM	10295	C	THR	1084	17.924	109.803	35.651	1.00	0.00	C
ATOM	10296	O	THR	1084	18.506	109.812	34.567	1.00	0.00	O
ATOM	10297	N	GLN	1085	17.360	110.910	36.181	1.00	0.00	N
ATOM	10298	HN	GLN	1085	16.848	110.840	37.060	1.00	0.00	H
ATOM	10299	CA	GLN	1085	17.470	112.180	35.528	1.00	0.00	C
ATOM	10300	CB	GLN	1085	16.982	112.146	34.070	1.00	0.00	C
ATOM	10301	CG	GLN	1085	15.493	111.844	33.907	1.00	0.00	C
ATOM	10302	CD	GLN	1085	15.210	111.820	32.413	1.00	0.00	C
ATOM	10303	OE1	GLN	1085	16.097	111.536	31.610	1.00	0.00	O
ATOM	10304	NE2	GLN	1085	13.942	112.124	32.025	1.00	0.00	N
ATOM	10305	1HE2	GLN	1085	13.206	112.360	32.691	1.00	0.00	H
ATOM	10306	2HE2	GLN	1085	13.752	112.108	31.023	1.00	0.00	H
ATOM	10307	C	GLN	1085	16.633	113.167	36.288	1.00	0.00	C
ATOM	10308	O	GLN	1085	16.454	114.301	35.846	1.00	0.00	O
ATOM	10309	N	LEU	1086	16.087	112.755	37.453	1.00	0.00	N
ATOM	10310	HN	LEU	1086	16.234	111.797	37.771	1.00	0.00	H
ATOM	10311	CA	LEU	1086	15.300	113.658	38.247	1.00	0.00	C
ATOM	10312	CB	LEU	1086	13.813	113.722	37.850	1.00	0.00	C
ATOM	10313	CG	LEU	1086	13.548	114.481	36.537	1.00	0.00	C
ATOM	10314	CD1	LEU	1086	12.048	114.505	36.202	1.00	0.00	C
ATOM	10315	CD2	LEU	1086	14.149	115.897	36.588	1.00	0.00	C
ATOM	10316	C	LEU	1086	15.364	113.247	39.686	1.00	0.00	C
ATOM	10317	O	LEU	1086	15.379	112.060	40.015	1.00	0.00	O
ATOM	10318	N	SER	1087	15.369	114.252	40.586	1.00	0.00	N
ATOM	10319	HN	SER	1087	15.316	115.214	40.251	1.00	0.00	H
ATOM	10320	CA	SER	1087	15.446	114.014	41.996	1.00	0.00	C
ATOM	10321	CB	SER	1087	15.470	115.285	42.861	1.00	0.00	C
ATOM	10322	OG	SER	1087	16.694	115.978	42.710	1.00	0.00	O
ATOM	10323	HG	SER	1087	16.709	116.763	43.244	1.00	0.00	H
ATOM	10324	C	SER	1087	14.220	113.289	42.428	1.00	0.00	C
ATOM	10325	O	SER	1087	13.184	113.304	41.767	1.00	0.00	O
ATOM	10326	N	GLY	1088	14.336	112.640	43.597	1.00	0.00	N
ATOM	10327	HN	GLY	1088	15.223	112.689	44.098	1.00	0.00	H
ATOM	10328	CA	GLY	1088	13.267	111.884	44.167	1.00	0.00	C
ATOM	10329	C	GLY	1088	12.147	112.826	44.460	1.00	0.00	C
ATOM	10330	O	GLY	1088	10.981	112.434	44.426	1.00	0.00	O
ATOM	10331	N	GLY	1089	12.470	114.093	44.792	1.00	0.00	N
ATOM	10332	HN	GLY	1089	13.443	114.400	44.785	1.00	0.00	H
ATOM	10333	CA	GLY	1089	11.422	114.999	45.155	1.00	0.00	C
ATOM	10334	C	GLY	1089	10.459	115.111	44.018	1.00	0.00	C
ATOM	10335	O	GLY	1089	9.252	114.974	44.205	1.00	0.00	O
ATOM	10336	N	GLN	1090	10.974	115.327	42.796	1.00	0.00	N
ATOM	10337	HN	GLN	1090	11.986	115.390	42.681	1.00	0.00	H
ATOM	10338	CA	GLN	1090	10.123	115.470	41.651	1.00	0.00	C
ATOM	10339	CB	GLN	1090	10.907	115.751	40.359	1.00	0.00	C
ATOM	10340	CG	GLN	1090	11.716	117.047	40.403	1.00	0.00	C
ATOM	10341	CD	GLN	1090	13.061	116.772	41.063	1.00	0.00	C
ATOM	10342	OE1	GLN	1090	13.165	116.659	42.284	1.00	0.00	O
ATOM	10343	NE2	GLN	1090	14.127	116.672	40.223	1.00	0.00	N
ATOM	10344	1HE2	GLN	1090	15.028	116.488	40.665	1.00	0.00	H
ATOM	10345	2HE2	GLN	1090	14.041	116.766	39.211	1.00	0.00	H
ATOM	10346	C	GLN	1090	9.414	114.170	41.465	1.00	0.00	C
ATOM	10347	O	GLN	1090	8.221	114.131	41.165	1.00	0.00	O
ATOM	10348	N	LYS	1091	10.137	113.057	41.682	1.00	0.00	N
ATOM	10349	HN	LYS	1091	11.105	113.131	41.994	1.00	0.00	H
ATOM	10350	CA	LYS	1091	9.548	111.766	41.475	1.00	0.00	C
ATOM	10351	CB	LYS	1091	10.485	110.603	41.842	1.00	0.00	C
ATOM	10352	CG	LYS	1091	11.468	110.222	40.736	1.00	0.00	C
ATOM	10353	CD	LYS	1091	10.761	109.745	39.466	1.00	0.00	C
ATOM	10354	CE	LYS	1091	11.689	109.084	38.447	1.00	0.00	C
ATOM	10355	NZ	LYS	1091	11.864	107.651	38.779	1.00	0.00	N
ATOM	10356	HZ1	LYS	1091	12.483	107.210	38.099	1.00	0.00	H
ATOM	10357	HZ2	LYS	1091	10.971	107.164	38.856	1.00	0.00	H

ATOM	10358	HZ3	LYS	1091	12.189	107.517	39.736	1.00	0.00	H
ATOM	10359	C	LYS	1091	8.337	111.641	42.340	1.00	0.00	C
ATOM	10360	O	LYS	1091	7.272	111.242	41.871	1.00	0.00	O
ATOM	10361	N	GLN	1092	8.451	112.034	43.617	1.00	0.00	N
ATOM	10362	HN	GLN	1092	9.325	112.445	43.945	1.00	0.00	H
ATOM	10363	CA	GLN	1092	7.354	111.880	44.523	1.00	0.00	C
ATOM	10364	CB	GLN	1092	7.702	112.332	45.947	1.00	0.00	C
ATOM	10365	CG	GLN	1092	6.791	111.705	46.998	1.00	0.00	C
ATOM	10366	CD	GLN	1092	7.153	110.225	47.060	1.00	0.00	C
ATOM	10367	OE1	GLN	1092	7.423	109.594	46.039	1.00	0.00	O
ATOM	10368	NE2	GLN	1092	7.171	109.655	48.294	1.00	0.00	N
ATOM	10369	1HE2	GLN	1092	7.413	108.665	48.335	1.00	0.00	H
ATOM	10370	2HE2	GLN	1092	6.947	110.178	49.141	1.00	0.00	H
ATOM	10371	C	GLN	1092	6.224	112.714	44.015	1.00	0.00	C
ATOM	10372	O	GLN	1092	5.054	112.373	44.184	1.00	0.00	O
ATOM	10373	N	ARG	1093	6.547	113.853	43.379	1.00	0.00	N
ATOM	10374	HN	ARG	1093	7.525	114.123	43.269	1.00	0.00	H
ATOM	10375	CA	ARG	1093	5.505	114.683	42.858	1.00	0.00	C
ATOM	10376	CB	ARG	1093	6.061	115.930	42.149	1.00	0.00	C
ATOM	10377	CG	ARG	1093	6.860	116.828	43.099	1.00	0.00	C
ATOM	10378	CD	ARG	1093	7.542	118.019	42.423	1.00	0.00	C
ATOM	10379	NE	ARG	1093	8.576	118.520	43.375	1.00	0.00	N
ATOM	10380	HE	ARG	1093	9.408	117.955	43.547	1.00	0.00	H
ATOM	10381	CZ	ARG	1093	8.438	119.714	44.022	1.00	0.00	C
ATOM	10382	NH1	ARG	1093	7.386	120.539	43.748	1.00	0.00	N
ATOM	10383	1HH1	ARG	1093	7.283	121.431	44.231	1.00	0.00	H
ATOM	10384	2HH1	ARG	1093	6.686	120.261	43.060	1.00	0.00	H
ATOM	10385	NH2	ARG	1093	9.375	120.086	44.942	1.00	0.00	N
ATOM	10386	1HH2	ARG	1093	9.272	120.978	45.425	1.00	0.00	H
ATOM	10387	2HH2	ARG	1093	10.161	119.469	45.147	1.00	0.00	H
ATOM	10388	C	ARG	1093	4.727	113.867	41.864	1.00	0.00	C
ATOM	10389	O	ARG	1093	3.498	113.908	41.840	1.00	0.00	O
ATOM	10390	N	ILE	1094	5.430	113.088	41.021	1.00	0.00	N
ATOM	10391	HN	ILE	1094	6.446	113.064	41.103	1.00	0.00	H
ATOM	10392	CA	ILE	1094	4.794	112.287	40.006	1.00	0.00	C
ATOM	10393	CB	ILE	1094	5.796	111.563	39.152	1.00	0.00	C
ATOM	10394	CG1	ILE	1094	6.801	112.546	38.538	1.00	0.00	C
ATOM	10395	CG2	ILE	1094	5.030	110.747	38.097	1.00	0.00	C
ATOM	10396	CD1	ILE	1094	8.013	111.849	37.920	1.00	0.00	C
ATOM	10397	C	ILE	1094	3.957	111.212	40.642	1.00	0.00	C
ATOM	10398	O	ILE	1094	2.792	111.028	40.285	1.00	0.00	O
ATOM	10399	N	ALA	1095	4.525	110.502	41.641	1.00	0.00	N
ATOM	10400	HN	ALA	1095	5.445	110.776	41.985	1.00	0.00	H
ATOM	10401	CA	ALA	1095	3.864	109.370	42.231	1.00	0.00	C
ATOM	10402	CB	ALA	1095	4.652	108.773	43.409	1.00	0.00	C
ATOM	10403	C	ALA	1095	2.559	109.844	42.762	1.00	0.00	C
ATOM	10404	O	ALA	1095	1.522	109.217	42.551	1.00	0.00	O
ATOM	10405	N	ILE	1096	2.591	111.011	43.420	1.00	0.00	N
ATOM	10406	HN	ILE	1096	3.486	111.492	43.512	1.00	0.00	H
ATOM	10407	CA	ILE	1096	1.432	111.614	43.999	1.00	0.00	C
ATOM	10408	CB	ILE	1096	1.738	112.933	44.644	1.00	0.00	C
ATOM	10409	CG1	ILE	1096	2.800	112.754	45.743	1.00	0.00	C
ATOM	10410	CG2	ILE	1096	0.411	113.539	45.130	1.00	0.00	C
ATOM	10411	CD1	ILE	1096	2.419	111.718	46.799	1.00	0.00	C
ATOM	10412	C	ILE	1096	0.482	111.885	42.890	1.00	0.00	C
ATOM	10413	O	ILE	1096	-0.731	111.736	43.052	1.00	0.00	O
ATOM	10414	N	ALA	1097	1.027	112.309	41.733	1.00	0.00	N
ATOM	10415	HN	ALA	1097	2.038	112.410	41.647	1.00	0.00	H
ATOM	10416	CA	ALA	1097	0.177	112.615	40.629	1.00	0.00	C
ATOM	10417	CB	ALA	1097	0.956	112.987	39.356	1.00	0.00	C
ATOM	10418	C	ALA	1097	-0.595	111.384	40.347	1.00	0.00	C
ATOM	10419	O	ALA	1097	-1.803	111.401	40.563	1.00	0.00	O
ATOM	10420	N	ARG	1098	0.123	110.258	40.133	1.00	0.00	N
ATOM	10421	HN	ARG	1098	1.132	110.310	40.273	1.00	0.00	H
ATOM	10422	CA	ARG	1098	-0.425	108.992	39.723	1.00	0.00	C
ATOM	10423	CB	ARG	1098	0.516	107.822	40.055	1.00	0.00	C
ATOM	10424	CG	ARG	1098	1.936	107.957	39.523	1.00	0.00	C
ATOM	10425	CD	ARG	1098	2.989	107.250	40.392	1.00	0.00	C
ATOM	10426	NE	ARG	1098	2.727	105.782	40.426	1.00	0.00	N
ATOM	10427	HE	ARG	1098	1.798	105.420	40.212	1.00	0.00	H
ATOM	10428	CZ	ARG	1098	3.743	104.925	40.747	1.00	0.00	C
ATOM	10429	NH1	ARG	1098	4.947	105.414	41.167	1.00	0.00	N
ATOM	10430	1HH1	ARG	1098	5.079	106.422	41.247	1.00	0.00	H
ATOM	10431	2HH1	ARG	1098	5.705	104.775	41.406	1.00	0.00	H

ATOM	10432	NH2	ARG	1098	3.567	103.576	40.640	1.00	0.00	N
ATOM	10433	1HH2	ARG	1098	2.668	103.211	40.326	1.00	0.00	H
ATOM	10434	2HH2	ARG	1098	4.325	102.937	40.879	1.00	0.00	H
ATOM	10435	C	ARG	1098	-1.575	108.748	40.633	1.00	0.00	C
ATOM	10436	O	ARG	1098	-2.688	108.483	40.182	1.00	0.00	O
ATOM	10437	N	ALA	1099	-1.336	108.936	41.944	1.00	0.00	N
ATOM	10438	HN	ALA	1099	-0.413	109.237	42.257	1.00	0.00	H
ATOM	10439	CA	ALA	1099	-2.379	108.713	42.899	1.00	0.00	C
ATOM	10440	CB	ALA	1099	-1.880	108.836	44.348	1.00	0.00	C
ATOM	10441	C	ALA	1099	-3.532	109.669	42.755	1.00	0.00	C
ATOM	10442	O	ALA	1099	-4.647	109.240	42.476	1.00	0.00	O
ATOM	10443	N	LEU	1100	-3.316	110.996	42.825	1.00	0.00	N
ATOM	10444	HN	LEU	1100	-2.374	111.379	42.906	1.00	0.00	H
ATOM	10445	CA	LEU	1100	-4.476	111.853	42.781	1.00	0.00	C
ATOM	10446	CB	LEU	1100	-4.304	113.355	43.087	1.00	0.00	C
ATOM	10447	CG	LEU	1100	-3.625	114.190	41.998	1.00	0.00	C
ATOM	10448	CD1	LEU	1100	-3.813	115.688	42.254	1.00	0.00	C
ATOM	10449	CD2	LEU	1100	-2.142	113.849	41.917	1.00	0.00	C
ATOM	10450	C	LEU	1100	-5.114	111.729	41.431	1.00	0.00	C
ATOM	10451	O	LEU	1100	-6.197	112.255	41.187	1.00	0.00	O
ATOM	10452	N	VAL	1101	-4.381	111.152	40.469	1.00	0.00	N
ATOM	10453	HN	VAL	1101	-3.419	110.883	40.677	1.00	0.00	H
ATOM	10454	CA	VAL	1101	-4.903	110.899	39.155	1.00	0.00	C
ATOM	10455	CB	VAL	1101	-3.896	110.285	38.220	1.00	0.00	C
ATOM	10456	CG1	VAL	1101	-4.614	109.881	36.920	1.00	0.00	C
ATOM	10457	CG2	VAL	1101	-2.742	111.270	37.995	1.00	0.00	C
ATOM	10458	C	VAL	1101	-5.994	109.884	39.283	1.00	0.00	C
ATOM	10459	O	VAL	1101	-7.028	109.973	38.625	1.00	0.00	O
ATOM	10460	N	ARG	1102	-5.755	108.880	40.144	1.00	0.00	N
ATOM	10461	HN	ARG	1102	-4.868	108.908	40.646	1.00	0.00	H
ATOM	10462	CA	ARG	1102	-6.622	107.774	40.427	1.00	0.00	C
ATOM	10463	CB	ARG	1102	-5.935	106.696	41.290	1.00	0.00	C
ATOM	10464	CG	ARG	1102	-6.660	105.346	41.320	1.00	0.00	C
ATOM	10465	CD	ARG	1102	-5.748	104.185	41.719	1.00	0.00	C
ATOM	10466	NE	ARG	1102	-4.720	104.068	40.646	1.00	0.00	N
ATOM	10467	HE	ARG	1102	-4.828	104.600	39.783	1.00	0.00	H
ATOM	10468	CZ	ARG	1102	-3.636	103.256	40.808	1.00	0.00	C
ATOM	10469	NH1	ARG	1102	-3.491	102.526	41.951	1.00	0.00	N
ATOM	10470	1HH1	ARG	1102	-2.680	101.919	42.072	1.00	0.00	H
ATOM	10471	2HH1	ARG	1102	-4.197	102.584	42.685	1.00	0.00	H
ATOM	10472	NH2	ARG	1102	-2.691	103.178	39.825	1.00	0.00	N
ATOM	10473	1HH2	ARG	1102	-1.880	102.571	39.946	1.00	0.00	H
ATOM	10474	2HH2	ARG	1102	-2.799	103.724	38.970	1.00	0.00	H
ATOM	10475	C	ARG	1102	-7.836	108.296	41.134	1.00	0.00	C
ATOM	10476	O	ARG	1102	-8.895	107.671	41.122	1.00	0.00	O
ATOM	10477	N	GLN	1103	-7.711	109.477	41.768	1.00	0.00	N
ATOM	10478	HN	GLN	1103	-6.837	109.996	41.682	1.00	0.00	H
ATOM	10479	CA	GLN	1103	-8.774	110.027	42.563	1.00	0.00	C
ATOM	10480	CB	GLN	1103	-9.991	110.464	41.728	1.00	0.00	C
ATOM	10481	CG	GLN	1103	-9.669	111.531	40.679	1.00	0.00	C
ATOM	10482	CD	GLN	1103	-9.275	112.821	41.385	1.00	0.00	C
ATOM	10483	OE1	GLN	1103	-9.250	112.896	42.613	1.00	0.00	O
ATOM	10484	NE2	GLN	1103	-8.953	113.870	40.580	1.00	0.00	N
ATOM	10485	1HE2	GLN	1103	-8.689	114.734	41.053	1.00	0.00	H
ATOM	10486	2HE2	GLN	1103	-8.974	113.808	39.562	1.00	0.00	H
ATOM	10487	C	GLN	1103	-9.246	109.007	43.570	1.00	0.00	C
ATOM	10488	O	GLN	1103	-10.369	108.516	43.459	1.00	0.00	O
ATOM	10489	N	PRO	1104	-8.428	108.656	44.550	1.00	0.00	N
ATOM	10490	CA	PRO	1104	-8.817	107.694	45.549	1.00	0.00	C
ATOM	10491	CD	PRO	1104	-6.974	108.696	44.416	1.00	0.00	C
ATOM	10492	CB	PRO	1104	-7.531	107.199	46.209	1.00	0.00	C
ATOM	10493	CG	PRO	1104	-6.441	107.473	45.170	1.00	0.00	C
ATOM	10494	C	PRO	1104	-9.705	108.339	46.562	1.00	0.00	C
ATOM	10495	O	PRO	1104	-10.163	109.454	46.328	1.00	0.00	O
ATOM	10496	N	HIS	1105	-10.184	107.549	47.537	1.00	0.00	N
ATOM	10497	HN	HIS	1105	-10.082	106.541	47.418	1.00	0.00	H
ATOM	10498	CA	HIS	1105	-10.827	108.011	48.731	1.00	0.00	C
ATOM	10499	ND1	HIS	1105	-13.028	107.307	46.589	1.00	0.00	N
ATOM	10500	HD1	HIS	1105	-12.313	106.705	46.181	1.00	0.00	H
ATOM	10501	CG	HIS	1105	-13.128	107.685	47.910	1.00	0.00	C
ATOM	10502	CB	HIS	1105	-12.150	107.281	48.977	1.00	0.00	C
ATOM	10503	NE2	HIS	1105	-14.822	108.613	46.741	1.00	0.00	N
ATOM	10504	HE2	HIS	1105	-15.656	109.148	46.501	1.00	0.00	H
ATOM	10505	CD2	HIS	1105	-14.229	108.482	47.984	1.00	0.00	C

ATOM	10506	CE1	HIS	1105	-14.066	107.890	45.935	1.00	0.00	C
ATOM	10507	C	HIS	1105	-9.927	107.939	49.936	1.00	0.00	C
ATOM	10508	O	HIS	1105	-10.086	108.679	50.905	1.00	0.00	O
ATOM	10509	N	ILE	1106	-8.979	106.982	49.933	1.00	0.00	N
ATOM	10510	HN	ILE	1106	-8.870	106.386	49.113	1.00	0.00	H
ATOM	10511	CA	ILE	1106	-8.119	106.788	51.067	1.00	0.00	C
ATOM	10512	CB	ILE	1106	-8.107	105.412	51.634	1.00	0.00	C
ATOM	10513	CG1	ILE	1106	-7.520	104.466	50.588	1.00	0.00	C
ATOM	10514	CG2	ILE	1106	-9.520	105.039	52.102	1.00	0.00	C
ATOM	10515	CD1	ILE	1106	-6.975	103.189	51.200	1.00	0.00	C
ATOM	10516	C	ILE	1106	-6.722	106.963	50.563	1.00	0.00	C
ATOM	10517	O	ILE	1106	-6.504	106.957	49.353	1.00	0.00	O
ATOM	10518	N	LEU	1107	-5.743	107.177	51.473	1.00	0.00	N
ATOM	10519	HN	LEU	1107	-5.968	107.236	52.466	1.00	0.00	H
ATOM	10520	CA	LEU	1107	-4.381	107.321	51.026	1.00	0.00	C
ATOM	10521	CB	LEU	1107	-3.889	108.781	50.972	1.00	0.00	C
ATOM	10522	CG	LEU	1107	-4.635	109.690	49.974	1.00	0.00	C
ATOM	10523	CD1	LEU	1107	-4.006	111.092	49.939	1.00	0.00	C
ATOM	10524	CD2	LEU	1107	-4.734	109.050	48.579	1.00	0.00	C
ATOM	10525	C	LEU	1107	-3.449	106.611	51.967	1.00	0.00	C
ATOM	10526	O	LEU	1107	-3.648	106.589	53.178	1.00	0.00	O
ATOM	10527	N	LEU	1108	-2.383	106.002	51.417	1.00	0.00	N
ATOM	10528	HN	LEU	1108	-2.284	106.002	50.402	1.00	0.00	H
ATOM	10529	CA	LEU	1108	-1.385	105.355	52.208	1.00	0.00	C
ATOM	10530	CB	LEU	1108	-1.201	103.894	51.775	1.00	0.00	C
ATOM	10531	CG	LEU	1108	-2.518	103.100	51.891	1.00	0.00	C
ATOM	10532	CD1	LEU	1108	-2.357	101.637	51.455	1.00	0.00	C
ATOM	10533	CD2	LEU	1108	-3.119	103.231	53.296	1.00	0.00	C
ATOM	10534	C	LEU	1108	-0.113	106.109	51.973	1.00	0.00	C
ATOM	10535	O	LEU	1108	0.590	105.872	50.990	1.00	0.00	O
ATOM	10536	N	LEU	1109	0.216	107.058	52.875	1.00	0.00	N
ATOM	10537	HN	LEU	1109	-0.390	107.246	53.674	1.00	0.00	H
ATOM	10538	CA	LEU	1109	1.431	107.797	52.692	1.00	0.00	C
ATOM	10539	CB	LEU	1109	1.343	109.273	53.122	1.00	0.00	C
ATOM	10540	CG	LEU	1109	0.127	110.033	52.552	1.00	0.00	C
ATOM	10541	CD1	LEU	1109	-0.036	109.809	51.041	1.00	0.00	C
ATOM	10542	CD2	LEU	1109	-1.145	109.767	53.370	1.00	0.00	C
ATOM	10543	C	LEU	1109	2.436	107.138	53.582	1.00	0.00	C
ATOM	10544	O	LEU	1109	2.553	107.460	54.763	1.00	0.00	O
ATOM	10545	N	ASP	1110	3.218	106.208	53.007	1.00	0.00	N
ATOM	10546	HN	ASP	1110	3.148	106.060	52.000	1.00	0.00	H
ATOM	10547	CA	ASP	1110	4.148	105.416	53.759	1.00	0.00	C
ATOM	10548	CB	ASP	1110	4.414	104.056	53.079	1.00	0.00	C
ATOM	10549	CG	ASP	1110	5.253	103.141	53.969	1.00	0.00	C
ATOM	10550	OD1	ASP	1110	6.036	103.644	54.817	1.00	0.00	O
ATOM	10551	OD2	ASP	1110	5.119	101.900	53.795	1.00	0.00	O
ATOM	10552	C	ASP	1110	5.453	106.133	53.846	1.00	0.00	C
ATOM	10553	O	ASP	1110	6.342	105.872	53.036	1.00	0.00	O
ATOM	10554	N	GLU	1111	5.576	107.052	54.834	1.00	0.00	N
ATOM	10555	HN	GLU	1111	4.757	107.251	55.408	1.00	0.00	H
ATOM	10556	CA	GLU	1111	6.794	107.764	55.122	1.00	0.00	C
ATOM	10557	CB	GLU	1111	7.875	106.871	55.753	1.00	0.00	C
ATOM	10558	CG	GLU	1111	7.518	106.348	57.143	1.00	0.00	C
ATOM	10559	CD	GLU	1111	8.662	105.458	57.603	1.00	0.00	C
ATOM	10560	OE1	GLU	1111	8.936	104.442	56.910	1.00	0.00	O
ATOM	10561	OE2	GLU	1111	9.281	105.784	58.650	1.00	0.00	O
ATOM	10562	C	GLU	1111	7.351	108.261	53.838	1.00	0.00	C
ATOM	10563	O	GLU	1111	8.571	108.245	53.670	1.00	0.00	O
ATOM	10564	N	ALA	1112	6.475	108.779	52.949	1.00	0.00	N
ATOM	10565	HN	ALA	1112	5.519	108.982	53.241	1.00	0.00	H
ATOM	10566	CA	ALA	1112	6.878	109.045	51.599	1.00	0.00	C
ATOM	10567	CB	ALA	1112	5.785	109.776	50.803	1.00	0.00	C
ATOM	10568	C	ALA	1112	8.098	109.907	51.583	1.00	0.00	C
ATOM	10569	O	ALA	1112	9.148	109.443	51.145	1.00	0.00	O
ATOM	10570	N	THR	1113	8.068	111.109	52.182	1.00	0.00	N
ATOM	10571	HN	THR	1113	7.233	111.464	52.647	1.00	0.00	H
ATOM	10572	CA	THR	1113	9.287	111.860	52.124	1.00	0.00	C
ATOM	10573	CB	THR	1113	9.075	113.342	51.962	1.00	0.00	C
ATOM	10574	OG1	THR	1113	10.325	114.010	51.910	1.00	0.00	O
ATOM	10575	HG1	THR	1113	10.191	114.945	51.808	1.00	0.00	H
ATOM	10576	CG2	THR	1113	8.194	113.891	53.095	1.00	0.00	C
ATOM	10577	C	THR	1113	10.068	111.563	53.370	1.00	0.00	C
ATOM	10578	O	THR	1113	9.923	112.216	54.403	1.00	0.00	O
ATOM	10579	N	SER	1114	10.814	110.442	53.325	1.00	0.00	N

ATOM	10580	HN	SER	1114	10.718	109.832	52.513	1.00	0.00	H
ATOM	10581	CA	SER	1114	11.735	110.058	54.353	1.00	0.00	C
ATOM	10582	CB	SER	1114	11.720	108.547	54.659	1.00	0.00	C
ATOM	10583	OG	SER	1114	12.096	107.789	53.521	1.00	0.00	O
ATOM	10584	HG	SER	1114	12.087	106.858	53.710	1.00	0.00	H
ATOM	10585	C	SER	1114	13.121	110.479	53.979	1.00	0.00	C
ATOM	10586	O	SER	1114	14.023	110.444	54.810	1.00	0.00	O
ATOM	10587	N	ALA	1115	13.356	110.808	52.694	1.00	0.00	N
ATOM	10588	HN	ALA	1115	12.607	110.729	52.007	1.00	0.00	H
ATOM	10589	CA	ALA	1115	14.653	111.269	52.284	1.00	0.00	C
ATOM	10590	CB	ALA	1115	15.472	110.198	51.547	1.00	0.00	C
ATOM	10591	C	ALA	1115	14.398	112.376	51.314	1.00	0.00	C
ATOM	10592	O	ALA	1115	13.800	112.151	50.262	1.00	0.00	O
ATOM	10593	N	LEU	1116	14.866	113.603	51.626	1.00	0.00	N
ATOM	10594	HN	LEU	1116	15.435	113.760	52.457	1.00	0.00	H
ATOM	10595	CA	LEU	1116	14.528	114.673	50.739	1.00	0.00	C
ATOM	10596	CB	LEU	1116	13.003	114.858	50.674	1.00	0.00	C
ATOM	10597	CG	LEU	1116	12.509	115.780	49.554	1.00	0.00	C
ATOM	10598	CD1	LEU	1116	12.946	115.256	48.175	1.00	0.00	C
ATOM	10599	CD2	LEU	1116	10.985	115.961	49.640	1.00	0.00	C
ATOM	10600	C	LEU	1116	15.187	115.931	51.237	1.00	0.00	C
ATOM	10601	O	LEU	1116	16.117	115.873	52.043	1.00	0.00	O
ATOM	10602	N	ASP	1117	14.740	117.103	50.725	1.00	0.00	N
ATOM	10603	HN	ASP	1117	13.964	117.091	50.063	1.00	0.00	H
ATOM	10604	CA	ASP	1117	15.329	118.364	51.088	1.00	0.00	C
ATOM	10605	CB	ASP	1117	16.189	118.932	49.955	1.00	0.00	C
ATOM	10606	CG	ASP	1117	17.128	119.951	50.558	1.00	0.00	C
ATOM	10607	OD1	ASP	1117	17.418	119.839	51.779	1.00	0.00	O
ATOM	10608	OD2	ASP	1117	17.562	120.860	49.804	1.00	0.00	O
ATOM	10609	C	ASP	1117	14.238	119.367	51.388	1.00	0.00	C
ATOM	10610	O	ASP	1117	13.055	119.045	51.341	1.00	0.00	O
ATOM	10611	N	THR	1118	14.619	120.636	51.666	1.00	0.00	N
ATOM	10612	HN	THR	1118	15.596	120.886	51.512	1.00	0.00	H
ATOM	10613	CA	THR	1118	13.730	121.658	52.167	1.00	0.00	C
ATOM	10614	CB	THR	1118	14.445	122.956	52.400	1.00	0.00	C
ATOM	10615	OG1	THR	1118	13.534	123.928	52.890	1.00	0.00	O
ATOM	10616	HG1	THR	1118	13.987	124.750	53.038	1.00	0.00	H
ATOM	10617	CG2	THR	1118	15.093	123.428	51.087	1.00	0.00	C
ATOM	10618	C	THR	1118	12.513	121.962	51.320	1.00	0.00	C
ATOM	10619	O	THR	1118	11.394	121.802	51.803	1.00	0.00	O
ATOM	10620	N	GLU	1119	12.670	122.406	50.057	1.00	0.00	N
ATOM	10621	HN	GLU	1119	13.613	122.476	49.674	1.00	0.00	H
ATOM	10622	CA	GLU	1119	11.550	122.786	49.225	1.00	0.00	C
ATOM	10623	CB	GLU	1119	11.990	123.516	47.943	1.00	0.00	C
ATOM	10624	CG	GLU	1119	10.826	124.080	47.127	1.00	0.00	C
ATOM	10625	CD	GLU	1119	10.306	125.312	47.852	1.00	0.00	C
ATOM	10626	OE1	GLU	1119	9.509	125.139	48.812	1.00	0.00	O
ATOM	10627	OE2	GLU	1119	10.705	126.442	47.461	1.00	0.00	O
ATOM	10628	C	GLU	1119	10.801	121.568	48.812	1.00	0.00	C
ATOM	10629	O	GLU	1119	9.589	121.586	48.606	1.00	0.00	O
ATOM	10630	N	SER	1120	11.534	120.471	48.610	1.00	0.00	N
ATOM	10631	HN	SER	1120	12.543	120.492	48.759	1.00	0.00	H
ATOM	10632	CA	SER	1120	10.895	119.272	48.185	1.00	0.00	C
ATOM	10633	CB	SER	1120	11.930	118.170	47.932	1.00	0.00	C
ATOM	10634	OG	SER	1120	12.912	118.634	47.018	1.00	0.00	O
ATOM	10635	HG	SER	1120	13.553	117.951	46.861	1.00	0.00	H
ATOM	10636	C	SER	1120	10.009	118.836	49.295	1.00	0.00	C
ATOM	10637	O	SER	1120	8.812	118.615	49.121	1.00	0.00	O
ATOM	10638	N	GLU	1121	10.589	118.754	50.500	1.00	0.00	N
ATOM	10639	HN	GLU	1121	11.561	119.038	50.625	1.00	0.00	H
ATOM	10640	CA	GLU	1121	9.834	118.266	51.606	1.00	0.00	C
ATOM	10641	CB	GLU	1121	10.650	118.282	52.905	1.00	0.00	C
ATOM	10642	CG	GLU	1121	11.769	117.242	52.944	1.00	0.00	C
ATOM	10643	CD	GLU	1121	12.682	117.611	54.102	1.00	0.00	C
ATOM	10644	OE1	GLU	1121	13.402	118.638	53.976	1.00	0.00	O
ATOM	10645	OE2	GLU	1121	12.665	116.880	55.127	1.00	0.00	O
ATOM	10646	C	GLU	1121	8.664	119.168	51.815	1.00	0.00	C
ATOM	10647	O	GLU	1121	7.522	118.721	51.783	1.00	0.00	O
ATOM	10648	N	LYS	1122	8.901	120.483	51.957	1.00	0.00	N
ATOM	10649	HN	LYS	1122	9.836	120.869	51.829	1.00	0.00	H
ATOM	10650	CA	LYS	1122	7.793	121.322	52.295	1.00	0.00	C
ATOM	10651	CB	LYS	1122	8.147	122.802	52.521	1.00	0.00	C
ATOM	10652	CG	LYS	1122	8.592	123.531	51.253	1.00	0.00	C
ATOM	10653	CD	LYS	1122	8.276	125.024	51.277	1.00	0.00	C

ATOM	10654	CE	LYS	1122	6.768	125.302	51.314	1.00	0.00	C
ATOM	10655	NZ	LYS	1122	6.087	124.621	50.185	1.00	0.00	N
ATOM	10656	HZ1	LYS	1122	5.084	124.806	50.210	1.00	0.00	H
ATOM	10657	HZ2	LYS	1122	6.288	123.621	50.168	1.00	0.00	H
ATOM	10658	HZ3	LYS	1122	6.498	124.874	49.286	1.00	0.00	H
ATOM	10659	C	LYS	1122	6.753	121.317	51.218	1.00	0.00	C
ATOM	10660	O	LYS	1122	5.577	121.108	51.503	1.00	0.00	O
ATOM	10661	N	VAL	1123	7.153	121.495	49.944	1.00	0.00	N
ATOM	10662	HN	VAL	1123	8.146	121.519	49.714	1.00	0.00	H
ATOM	10663	CA	VAL	1123	6.165	121.650	48.915	1.00	0.00	C
ATOM	10664	CB	VAL	1123	6.719	121.863	47.533	1.00	0.00	C
ATOM	10665	CG1	VAL	1123	7.583	123.125	47.555	1.00	0.00	C
ATOM	10666	CG2	VAL	1123	7.449	120.601	47.053	1.00	0.00	C
ATOM	10667	C	VAL	1123	5.331	120.417	48.866	1.00	0.00	C
ATOM	10668	O	VAL	1123	4.117	120.498	48.689	1.00	0.00	O
ATOM	10669	N	VAL	1124	5.964	119.241	49.030	1.00	0.00	N
ATOM	10670	HN	VAL	1124	6.967	119.227	49.215	1.00	0.00	H
ATOM	10671	CA	VAL	1124	5.239	118.008	48.946	1.00	0.00	C
ATOM	10672	CB	VAL	1124	6.082	116.755	48.888	1.00	0.00	C
ATOM	10673	CG1	VAL	1124	6.906	116.793	47.596	1.00	0.00	C
ATOM	10674	CG2	VAL	1124	6.936	116.611	50.149	1.00	0.00	C
ATOM	10675	C	VAL	1124	4.267	117.898	50.076	1.00	0.00	C
ATOM	10676	O	VAL	1124	3.193	117.332	49.904	1.00	0.00	O
ATOM	10677	N	GLN	1125	4.612	118.420	51.267	1.00	0.00	N
ATOM	10678	HN	GLN	1125	5.525	118.862	51.379	1.00	0.00	H
ATOM	10679	CA	GLN	1125	3.710	118.362	52.382	1.00	0.00	C
ATOM	10680	CB	GLN	1125	4.292	118.956	53.674	1.00	0.00	C
ATOM	10681	CG	GLN	1125	5.409	118.103	54.280	1.00	0.00	C
ATOM	10682	CD	GLN	1125	4.799	116.778	54.725	1.00	0.00	C
ATOM	10683	OE1	GLN	1125	4.426	115.943	53.902	1.00	0.00	O
ATOM	10684	NE2	GLN	1125	4.692	116.581	56.066	1.00	0.00	N
ATOM	10685	1HE2	GLN	1125	5.001	117.273	56.748	1.00	0.00	H
ATOM	10686	2HE2	GLN	1125	4.284	115.695	56.364	1.00	0.00	H
ATOM	10687	C	GLN	1125	2.512	119.155	51.995	1.00	0.00	C
ATOM	10688	O	GLN	1125	1.398	118.868	52.429	1.00	0.00	O
ATOM	10689	N	GLU	1126	2.743	120.217	51.202	1.00	0.00	N
ATOM	10690	HN	GLU	1126	3.706	120.440	50.951	1.00	0.00	H
ATOM	10691	CA	GLU	1126	1.694	121.046	50.696	1.00	0.00	C
ATOM	10692	CB	GLU	1126	2.249	122.285	49.962	1.00	0.00	C
ATOM	10693	CG	GLU	1126	1.185	123.247	49.426	1.00	0.00	C
ATOM	10694	CD	GLU	1126	1.025	122.992	47.933	1.00	0.00	C
ATOM	10695	OE1	GLU	1126	2.068	122.997	47.226	1.00	0.00	O
ATOM	10696	OE2	GLU	1126	-0.135	122.792	47.482	1.00	0.00	O
ATOM	10697	C	GLU	1126	0.873	120.227	49.746	1.00	0.00	C
ATOM	10698	O	GLU	1126	-0.355	120.298	49.760	1.00	0.00	O
ATOM	10699	N	ALA	1127	1.531	119.426	48.880	1.00	0.00	N
ATOM	10700	HN	ALA	1127	2.550	119.387	48.886	1.00	0.00	H
ATOM	10701	CA	ALA	1127	0.779	118.630	47.951	1.00	0.00	C
ATOM	10702	CB	ALA	1127	1.679	117.851	46.977	1.00	0.00	C
ATOM	10703	C	ALA	1127	-0.025	117.628	48.717	1.00	0.00	C
ATOM	10704	O	ALA	1127	-1.251	117.619	48.651	1.00	0.00	O
ATOM	10705	N	LEU	1128	0.644	116.851	49.585	1.00	0.00	N
ATOM	10706	HN	LEU	1128	1.646	117.002	49.701	1.00	0.00	H
ATOM	10707	CA	LEU	1128	0.014	115.820	50.355	1.00	0.00	C
ATOM	10708	CB	LEU	1128	0.957	115.197	51.392	1.00	0.00	C
ATOM	10709	CG	LEU	1128	0.281	114.089	52.216	1.00	0.00	C
ATOM	10710	CD1	LEU	1128	0.121	112.804	51.394	1.00	0.00	C
ATOM	10711	CD2	LEU	1128	0.976	113.888	53.565	1.00	0.00	C
ATOM	10712	C	LEU	1128	-1.063	116.491	51.136	1.00	0.00	C
ATOM	10713	O	LEU	1128	-2.100	115.895	51.424	1.00	0.00	O
ATOM	10714	N	ASP	1129	-0.811	117.753	51.526	1.00	0.00	N
ATOM	10715	HN	ASP	1129	0.068	118.195	51.257	1.00	0.00	H
ATOM	10716	CA	ASP	1129	-1.757	118.488	52.313	1.00	0.00	C
ATOM	10717	CB	ASP	1129	-1.250	119.892	52.674	1.00	0.00	C
ATOM	10718	CG	ASP	1129	-2.206	120.478	53.703	1.00	0.00	C
ATOM	10719	OD1	ASP	1129	-3.085	119.719	54.195	1.00	0.00	O
ATOM	10720	OD2	ASP	1129	-2.073	121.692	54.009	1.00	0.00	O
ATOM	10721	C	ASP	1129	-3.058	118.666	51.577	1.00	0.00	C
ATOM	10722	O	ASP	1129	-4.089	118.142	51.992	1.00	0.00	O
ATOM	10723	N	LYS	1130	-3.033	119.356	50.422	1.00	0.00	N
ATOM	10724	HN	LYS	1130	-2.135	119.690	50.073	1.00	0.00	H
ATOM	10725	CA	LYS	1130	-4.220	119.644	49.657	1.00	0.00	C
ATOM	10726	CB	LYS	1130	-3.948	120.566	48.456	1.00	0.00	C
ATOM	10727	CG	LYS	1130	-3.640	121.998	48.891	1.00	0.00	C

ATOM	10728	CD	LYS	1130	-4.821	122.667	49.596	1.00	0.00	C
ATOM	10729	CE	LYS	1130	-4.432	123.892	50.421	1.00	0.00	C
ATOM	10730	NZ	LYS	1130	-3.814	123.454	51.693	1.00	0.00	N
ATOM	10731	HZ1	LYS	1130	-3.554	124.272	52.244	1.00	0.00	H
ATOM	10732	HZ2	LYS	1130	-3.026	122.825	51.542	1.00	0.00	H
ATOM	10733	HZ3	LYS	1130	-4.414	122.814	52.213	1.00	0.00	H
ATOM	10734	C	LYS	1130	-4.738	118.350	49.145	1.00	0.00	C
ATOM	10735	O	LYS	1130	-5.918	118.202	48.835	1.00	0.00	O
ATOM	10736	N	ALA	1131	-3.821	117.389	49.004	1.00	0.00	N
ATOM	10737	HN	ALA	1131	-2.856	117.600	49.259	1.00	0.00	H
ATOM	10738	CA	ALA	1131	-4.119	116.085	48.516	1.00	0.00	C
ATOM	10739	CB	ALA	1131	-2.878	115.183	48.424	1.00	0.00	C
ATOM	10740	C	ALA	1131	-5.073	115.447	49.470	1.00	0.00	C
ATOM	10741	O	ALA	1131	-5.945	114.690	49.050	1.00	0.00	O
ATOM	10742	N	ARG	1132	-4.910	115.718	50.783	1.00	0.00	N
ATOM	10743	HN	ARG	1132	-4.176	116.366	51.067	1.00	0.00	H
ATOM	10744	CA	ARG	1132	-5.741	115.120	51.791	1.00	0.00	C
ATOM	10745	CB	ARG	1132	-5.012	114.861	53.118	1.00	0.00	C
ATOM	10746	CG	ARG	1132	-4.568	116.148	53.813	1.00	0.00	C
ATOM	10747	CD	ARG	1132	-3.707	115.921	55.053	1.00	0.00	C
ATOM	10748	NE	ARG	1132	-2.287	116.138	54.662	1.00	0.00	N
ATOM	10749	HE	ARG	1132	-2.018	116.145	53.678	1.00	0.00	H
ATOM	10750	CZ	ARG	1132	-1.349	116.328	55.635	1.00	0.00	C
ATOM	10751	NH1	ARG	1132	-1.719	116.260	56.947	1.00	0.00	N
ATOM	10752	1HH1	ARG	1132	-1.018	116.402	57.674	1.00	0.00	H
ATOM	10753	2HH1	ARG	1132	-2.688	116.062	57.195	1.00	0.00	H
ATOM	10754	NH2	ARG	1132	-0.052	116.593	55.303	1.00	0.00	N
ATOM	10755	1HH2	ARG	1132	0.649	116.735	56.030	1.00	0.00	H
ATOM	10756	2HH2	ARG	1132	0.225	116.644	54.323	1.00	0.00	H
ATOM	10757	C	ARG	1132	-6.871	116.047	52.117	1.00	0.00	C
ATOM	10758	O	ARG	1132	-7.112	117.045	51.440	1.00	0.00	O
ATOM	10759	N	GLU	1133	-7.660	115.655	53.139	1.00	0.00	N
ATOM	10760	HN	GLU	1133	-7.436	114.756	53.566	1.00	0.00	H
ATOM	10761	CA	GLU	1133	-8.783	116.365	53.694	1.00	0.00	C
ATOM	10762	CB	GLU	1133	-8.477	117.852	53.935	1.00	0.00	C
ATOM	10763	CG	GLU	1133	-9.465	118.524	54.887	1.00	0.00	C
ATOM	10764	CD	GLU	1133	-9.141	118.031	56.292	1.00	0.00	C
ATOM	10765	OE1	GLU	1133	-8.852	116.814	56.442	1.00	0.00	O
ATOM	10766	OE2	GLU	1133	-9.171	118.868	57.233	1.00	0.00	O
ATOM	10767	C	GLU	1133	-9.921	116.271	52.733	1.00	0.00	C
ATOM	10768	O	GLU	1133	-11.087	116.401	53.102	1.00	0.00	O
ATOM	10769	N	GLY	1134	-9.596	116.024	51.458	1.00	0.00	N
ATOM	10770	HN	GLY	1134	-8.611	116.044	51.195	1.00	0.00	H
ATOM	10771	CA	GLY	1134	-10.561	115.735	50.452	1.00	0.00	C
ATOM	10772	C	GLY	1134	-10.978	114.331	50.709	1.00	0.00	C
ATOM	10773	O	GLY	1134	-12.104	113.932	50.421	1.00	0.00	O
ATOM	10774	N	ARG	1135	-10.020	113.528	51.221	1.00	0.00	N
ATOM	10775	HN	ARG	1135	-9.114	113.918	51.480	1.00	0.00	H
ATOM	10776	CA	ARG	1135	-10.274	112.131	51.401	1.00	0.00	C
ATOM	10777	CB	ARG	1135	-9.800	111.301	50.202	1.00	0.00	C
ATOM	10778	CG	ARG	1135	-8.286	111.369	50.010	1.00	0.00	C
ATOM	10779	CD	ARG	1135	-7.798	112.737	49.547	1.00	0.00	C
ATOM	10780	NE	ARG	1135	-8.130	112.860	48.103	1.00	0.00	N
ATOM	10781	HE	ARG	1135	-9.023	113.258	47.810	1.00	0.00	H
ATOM	10782	CZ	ARG	1135	-7.225	112.434	47.174	1.00	0.00	C
ATOM	10783	NH1	ARG	1135	-6.015	111.946	47.572	1.00	0.00	N
ATOM	10784	1HH1	ARG	1135	-5.788	111.905	48.565	1.00	0.00	H
ATOM	10785	2HH1	ARG	1135	-5.339	111.628	46.878	1.00	0.00	H
ATOM	10786	NH2	ARG	1135	-7.529	112.489	45.846	1.00	0.00	N
ATOM	10787	1HH2	ARG	1135	-8.434	112.854	45.548	1.00	0.00	H
ATOM	10788	2HH2	ARG	1135	-6.853	112.171	45.152	1.00	0.00	H
ATOM	10789	C	ARG	1135	-9.511	111.629	52.590	1.00	0.00	C
ATOM	10790	O	ARG	1135	-8.604	112.290	53.096	1.00	0.00	O
ATOM	10791	N	THR	1136	-9.867	110.411	53.054	1.00	0.00	N
ATOM	10792	HN	THR	1136	-10.604	109.890	52.579	1.00	0.00	H
ATOM	10793	CA	THR	1136	-9.228	109.837	54.203	1.00	0.00	C
ATOM	10794	CB	THR	1136	-9.925	108.629	54.758	1.00	0.00	C
ATOM	10795	OG1	THR	1136	-9.495	108.386	56.087	1.00	0.00	O
ATOM	10796	HG1	THR	1136	-9.725	109.135	56.624	1.00	0.00	H
ATOM	10797	CG2	THR	1136	-9.553	107.418	53.891	1.00	0.00	C
ATOM	10798	C	THR	1136	-7.865	109.387	53.791	1.00	0.00	C
ATOM	10799	O	THR	1136	-7.653	108.971	52.652	1.00	0.00	O
ATOM	10800	N	CYS	1137	-6.883	109.488	54.709	1.00	0.00	N
ATOM	10801	HN	CYS	1137	-7.063	109.884	55.632	1.00	0.00	H

ATOM	10802	CA	CYS	1137	-5.582	109.022	54.346	1.00	0.00	C
ATOM	10803	CB	CYS	1137	-4.781	110.024	53.495	1.00	0.00	C
ATOM	10804	SG	CYS	1137	-4.519	111.621	54.317	1.00	0.00	S
ATOM	10805	C	CYS	1137	-4.798	108.705	55.578	1.00	0.00	C
ATOM	10806	O	CYS	1137	-4.757	109.465	56.545	1.00	0.00	O
ATOM	10807	N	ILE	1138	-4.123	107.546	55.557	1.00	0.00	N
ATOM	10808	HN	ILE	1138	-4.180	106.938	54.740	1.00	0.00	H
ATOM	10809	CA	ILE	1138	-3.326	107.163	56.675	1.00	0.00	C
ATOM	10810	CB	ILE	1138	-3.275	105.676	56.863	1.00	0.00	C
ATOM	10811	CG1	ILE	1138	-4.699	105.111	57.000	1.00	0.00	C
ATOM	10812	CG2	ILE	1138	-2.384	105.382	58.081	1.00	0.00	C
ATOM	10813	CD1	ILE	1138	-4.769	103.589	56.886	1.00	0.00	C
ATOM	10814	C	ILE	1138	-1.955	107.619	56.333	1.00	0.00	C
ATOM	10815	O	ILE	1138	-1.246	106.996	55.541	1.00	0.00	O
ATOM	10816	N	VAL	1139	-1.576	108.770	56.909	1.00	0.00	N
ATOM	10817	HN	VAL	1139	-2.237	109.291	57.485	1.00	0.00	H
ATOM	10818	CA	VAL	1139	-0.258	109.266	56.720	1.00	0.00	C
ATOM	10819	CB	VAL	1139	-0.179	110.770	56.758	1.00	0.00	C
ATOM	10820	CG1	VAL	1139	-0.774	111.293	58.078	1.00	0.00	C
ATOM	10821	CG2	VAL	1139	1.285	111.180	56.528	1.00	0.00	C
ATOM	10822	C	VAL	1139	0.510	108.678	57.850	1.00	0.00	C
ATOM	10823	O	VAL	1139	0.241	108.937	59.023	1.00	0.00	O
ATOM	10824	N	ILE	1140	1.473	107.809	57.512	1.00	0.00	N
ATOM	10825	HN	ILE	1140	1.658	107.596	56.532	1.00	0.00	H
ATOM	10826	CA	ILE	1140	2.235	107.187	58.547	1.00	0.00	C
ATOM	10827	CB	ILE	1140	2.274	105.693	58.478	1.00	0.00	C
ATOM	10828	CG1	ILE	1140	3.046	105.255	57.224	1.00	0.00	C
ATOM	10829	CG2	ILE	1140	0.823	105.183	58.507	1.00	0.00	C
ATOM	10830	CD1	ILE	1140	3.598	103.838	57.309	1.00	0.00	C
ATOM	10831	C	ILE	1140	3.628	107.627	58.294	1.00	0.00	C
ATOM	10832	O	ILE	1140	4.022	107.811	57.143	1.00	0.00	O
ATOM	10833	N	ALA	1141	4.414	107.855	59.360	1.00	0.00	N
ATOM	10834	HN	ALA	1141	4.086	107.733	60.318	1.00	0.00	H
ATOM	10835	CA	ALA	1141	5.738	108.280	59.053	1.00	0.00	C
ATOM	10836	CB	ALA	1141	5.801	109.690	58.439	1.00	0.00	C
ATOM	10837	C	ALA	1141	6.598	108.294	60.268	1.00	0.00	C
ATOM	10838	O	ALA	1141	6.161	108.063	61.396	1.00	0.00	O
ATOM	10839	N	HIS	1142	7.902	108.441	59.985	1.00	0.00	N
ATOM	10840	HN	HIS	1142	8.153	108.422	58.997	1.00	0.00	H
ATOM	10841	CA	HIS	1142	8.978	108.621	60.904	1.00	0.00	C
ATOM	10842	ND1	HIS	1142	11.333	107.145	62.443	1.00	0.00	N
ATOM	10843	HD1	HIS	1142	10.637	106.409	62.566	1.00	0.00	H
ATOM	10844	CG	HIS	1142	11.364	108.088	61.438	1.00	0.00	C
ATOM	10845	CB	HIS	1142	10.336	108.166	60.353	1.00	0.00	C
ATOM	10846	NE2	HIS	1142	13.123	108.411	62.813	1.00	0.00	N
ATOM	10847	HE2	HIS	1142	13.972	108.793	63.229	1.00	0.00	H
ATOM	10848	CD2	HIS	1142	12.463	108.852	61.679	1.00	0.00	C
ATOM	10849	CE1	HIS	1142	12.407	107.385	63.236	1.00	0.00	C
ATOM	10850	C	HIS	1142	9.077	110.074	61.249	1.00	0.00	C
ATOM	10851	O	HIS	1142	9.864	110.453	62.111	1.00	0.00	O
ATOM	10852	N	ARG	1143	8.383	110.952	60.499	1.00	0.00	N
ATOM	10853	HN	ARG	1143	7.783	110.631	59.739	1.00	0.00	H
ATOM	10854	CA	ARG	1143	8.510	112.351	60.796	1.00	0.00	C
ATOM	10855	CB	ARG	1143	7.908	113.265	59.728	1.00	0.00	C
ATOM	10856	CG	ARG	1143	8.723	113.374	58.447	1.00	0.00	C
ATOM	10857	CD	ARG	1143	8.081	114.357	57.475	1.00	0.00	C
ATOM	10858	NE	ARG	1143	9.043	114.598	56.370	1.00	0.00	N
ATOM	10859	HE	ARG	1143	9.766	113.911	56.157	1.00	0.00	H
ATOM	10860	CZ	ARG	1143	8.950	115.748	55.643	1.00	0.00	C
ATOM	10861	NH1	ARG	1143	7.982	116.667	55.930	1.00	0.00	N
ATOM	10862	1HH1	ARG	1143	7.912	117.527	55.386	1.00	0.00	H
ATOM	10863	2HH1	ARG	1143	7.325	116.495	56.691	1.00	0.00	H
ATOM	10864	NH2	ARG	1143	9.827	115.978	54.626	1.00	0.00	N
ATOM	10865	1HH2	ARG	1143	9.757	116.838	54.082	1.00	0.00	H
ATOM	10866	2HH2	ARG	1143	10.550	115.291	54.412	1.00	0.00	H
ATOM	10867	C	ARG	1143	7.735	112.632	62.044	1.00	0.00	C
ATOM	10868	O	ARG	1143	6.648	113.205	62.008	1.00	0.00	O
ATOM	10869	N	LEU	1144	8.343	112.334	63.200	1.00	0.00	N
ATOM	10870	HN	LEU	1144	9.299	111.978	63.180	1.00	0.00	H
ATOM	10871	CA	LEU	1144	7.690	112.501	64.461	1.00	0.00	C
ATOM	10872	CB	LEU	1144	8.587	112.191	65.672	1.00	0.00	C
ATOM	10873	CG	LEU	1144	8.887	110.700	65.922	1.00	0.00	C
ATOM	10874	CD1	LEU	1144	7.595	109.936	66.242	1.00	0.00	C
ATOM	10875	CD2	LEU	1144	9.729	110.058	64.811	1.00	0.00	C

ATOM	10876	C	LEU	1144	7.312	113.937	64.594	1.00	0.00	C
ATOM	10877	O	LEU	1144	6.359	114.264	65.298	1.00	0.00	O
ATOM	10878	N	SER	1145	8.121	114.828	63.996	1.00	0.00	N
ATOM	10879	HN	SER	1145	8.928	114.480	63.478	1.00	0.00	H
ATOM	10880	CA	SER	1145	7.905	116.247	64.050	1.00	0.00	C
ATOM	10881	CB	SER	1145	9.109	117.024	63.494	1.00	0.00	C
ATOM	10882	OG	SER	1145	9.312	116.695	62.126	1.00	0.00	O
ATOM	10883	HG	SER	1145	10.056	117.175	61.782	1.00	0.00	H
ATOM	10884	C	SER	1145	6.677	116.710	63.298	1.00	0.00	C
ATOM	10885	O	SER	1145	5.729	117.218	63.894	1.00	0.00	O
ATOM	10886	N	THR	1146	6.661	116.501	61.965	1.00	0.00	N
ATOM	10887	HN	THR	1146	7.419	115.936	61.582	1.00	0.00	H
ATOM	10888	CA	THR	1146	5.680	116.995	61.021	1.00	0.00	C
ATOM	10889	CB	THR	1146	6.081	116.808	59.589	1.00	0.00	C
ATOM	10890	OG1	THR	1146	6.206	115.427	59.286	1.00	0.00	O
ATOM	10891	HG1	THR	1146	5.380	114.980	59.427	1.00	0.00	H
ATOM	10892	CG2	THR	1146	7.418	117.532	59.360	1.00	0.00	C
ATOM	10893	C	THR	1146	4.344	116.345	61.206	1.00	0.00	C
ATOM	10894	O	THR	1146	3.345	116.783	60.637	1.00	0.00	O
ATOM	10895	N	ILE	1147	4.309	115.236	61.949	1.00	0.00	N
ATOM	10896	HN	ILE	1147	5.180	114.929	62.382	1.00	0.00	H
ATOM	10897	CA	ILE	1147	3.134	114.445	62.182	1.00	0.00	C
ATOM	10898	CB	ILE	1147	3.384	113.207	62.981	1.00	0.00	C
ATOM	10899	CG1	ILE	1147	2.113	112.345	62.946	1.00	0.00	C
ATOM	10900	CG2	ILE	1147	3.842	113.607	64.393	1.00	0.00	C
ATOM	10901	CD1	ILE	1147	2.324	110.921	63.440	1.00	0.00	C
ATOM	10902	C	ILE	1147	2.043	115.209	62.883	1.00	0.00	C
ATOM	10903	O	ILE	1147	0.875	114.830	62.795	1.00	0.00	O
ATOM	10904	N	GLN	1148	2.381	116.288	63.610	1.00	0.00	N
ATOM	10905	HN	GLN	1148	3.335	116.643	63.542	1.00	0.00	H
ATOM	10906	CA	GLN	1148	1.456	116.963	64.479	1.00	0.00	C
ATOM	10907	CB	GLN	1148	2.016	118.280	65.050	1.00	0.00	C
ATOM	10908	CG	GLN	1148	3.165	118.075	66.041	1.00	0.00	C
ATOM	10909	CD	GLN	1148	3.635	119.440	66.528	1.00	0.00	C
ATOM	10910	OE1	GLN	1148	3.158	120.477	66.070	1.00	0.00	O
ATOM	10911	NE2	GLN	1148	4.603	119.440	67.484	1.00	0.00	N
ATOM	10912	1HE2	GLN	1148	4.918	120.354	67.810	1.00	0.00	H
ATOM	10913	2HE2	GLN	1148	4.999	118.580	67.864	1.00	0.00	H
ATOM	10914	C	GLN	1148	0.154	117.282	63.797	1.00	0.00	C
ATOM	10915	O	GLN	1148	-0.889	117.231	64.445	1.00	0.00	O
ATOM	10916	N	ASN	1149	0.137	117.643	62.501	1.00	0.00	N
ATOM	10917	HN	ASN	1149	0.997	117.705	61.956	1.00	0.00	H
ATOM	10918	CA	ASN	1149	-1.145	117.938	61.915	1.00	0.00	C
ATOM	10919	CB	ASN	1149	-1.026	118.780	60.628	1.00	0.00	C
ATOM	10920	CG	ASN	1149	-0.133	118.060	59.621	1.00	0.00	C
ATOM	10921	OD1	ASN	1149	0.781	117.321	59.984	1.00	0.00	O
ATOM	10922	ND2	ASN	1149	-0.397	118.298	58.309	1.00	0.00	N
ATOM	10923	1HD2	ASN	1149	-1.155	118.911	58.008	1.00	0.00	H
ATOM	10924	2HD2	ASN	1149	0.200	117.817	57.636	1.00	0.00	H
ATOM	10925	C	ASN	1149	-1.867	116.658	61.594	1.00	0.00	C
ATOM	10926	O	ASN	1149	-2.110	116.345	60.430	1.00	0.00	O
ATOM	10927	N	ALA	1150	-2.297	115.910	62.634	1.00	0.00	N
ATOM	10928	HN	ALA	1150	-2.145	116.229	63.591	1.00	0.00	H
ATOM	10929	CA	ALA	1150	-2.970	114.663	62.387	1.00	0.00	C
ATOM	10930	CB	ALA	1150	-2.142	113.439	62.810	1.00	0.00	C
ATOM	10931	C	ALA	1150	-4.251	114.638	63.165	1.00	0.00	C
ATOM	10932	O	ALA	1150	-4.318	115.173	64.269	1.00	0.00	O
ATOM	10933	N	ASP	1151	-5.340	114.083	62.583	1.00	0.00	N
ATOM	10934	HN	ASP	1151	-5.306	113.734	61.625	1.00	0.00	H
ATOM	10935	CA	ASP	1151	-6.546	114.002	63.361	1.00	0.00	C
ATOM	10936	CB	ASP	1151	-7.869	113.974	62.574	1.00	0.00	C
ATOM	10937	CG	ASP	1151	-7.698	113.098	61.371	1.00	0.00	C
ATOM	10938	OD1	ASP	1151	-6.891	113.550	60.521	1.00	0.00	O
ATOM	10939	OD2	ASP	1151	-8.365	112.037	61.247	1.00	0.00	O
ATOM	10940	C	ASP	1151	-6.490	112.968	64.445	1.00	0.00	C
ATOM	10941	O	ASP	1151	-6.747	113.289	65.604	1.00	0.00	O
ATOM	10942	N	LEU	1152	-6.119	111.712	64.135	1.00	0.00	N
ATOM	10943	HN	LEU	1152	-5.890	111.460	63.173	1.00	0.00	H
ATOM	10944	CA	LEU	1152	-6.051	110.733	65.183	1.00	0.00	C
ATOM	10945	CB	LEU	1152	-7.085	109.606	65.047	1.00	0.00	C
ATOM	10946	CG	LEU	1152	-6.998	108.563	66.179	1.00	0.00	C
ATOM	10947	CD1	LEU	1152	-7.282	109.194	67.548	1.00	0.00	C
ATOM	10948	CD2	LEU	1152	-7.893	107.348	65.883	1.00	0.00	C
ATOM	10949	C	LEU	1152	-4.703	110.108	65.096	1.00	0.00	C

ATOM	10950	O	LEU	1152	-4.423	109.362	64.160	1.00	0.00	O
ATOM	10951	N	ILE	1153	-3.837	110.363	66.094	1.00	0.00	N
ATOM	10952	HN	ILE	1153	-4.127	110.927	66.893	1.00	0.00	H
ATOM	10953	CA	ILE	1153	-2.505	109.839	66.029	1.00	0.00	C
ATOM	10954	CB	ILE	1153	-1.465	110.822	66.480	1.00	0.00	C
ATOM	10955	CG1	ILE	1153	-1.462	112.053	65.556	1.00	0.00	C
ATOM	10956	CG2	ILE	1153	-0.108	110.097	66.540	1.00	0.00	C
ATOM	10957	CD1	ILE	1153	-2.714	112.923	65.679	1.00	0.00	C
ATOM	10958	C	ILE	1153	-2.436	108.644	66.919	1.00	0.00	C
ATOM	10959	O	ILE	1153	-2.611	108.737	68.134	1.00	0.00	O
ATOM	10960	N	VAL	1154	-2.171	107.473	66.307	1.00	0.00	N
ATOM	10961	HN	VAL	1154	-2.003	107.460	65.301	1.00	0.00	H
ATOM	10962	CA	VAL	1154	-2.121	106.247	67.043	1.00	0.00	C
ATOM	10963	CB	VAL	1154	-2.840	105.127	66.351	1.00	0.00	C
ATOM	10964	CG1	VAL	1154	-2.593	103.828	67.131	1.00	0.00	C
ATOM	10965	CG2	VAL	1154	-4.326	105.503	66.221	1.00	0.00	C
ATOM	10966	C	VAL	1154	-0.697	105.825	67.170	1.00	0.00	C
ATOM	10967	O	VAL	1154	0.061	105.811	66.201	1.00	0.00	O
ATOM	10968	N	VAL	1155	-0.299	105.473	68.404	1.00	0.00	N
ATOM	10969	HN	VAL	1155	-0.952	105.531	69.185	1.00	0.00	H
ATOM	10970	CA	VAL	1155	1.036	105.018	68.625	1.00	0.00	C
ATOM	10971	CB	VAL	1155	1.642	105.579	69.881	1.00	0.00	C
ATOM	10972	CG1	VAL	1155	3.066	105.021	70.051	1.00	0.00	C
ATOM	10973	CG2	VAL	1155	1.581	107.114	69.806	1.00	0.00	C
ATOM	10974	C	VAL	1155	0.949	103.542	68.783	1.00	0.00	C
ATOM	10975	O	VAL	1155	0.406	103.041	69.767	1.00	0.00	O
ATOM	10976	N	PHE	1156	1.483	102.794	67.802	1.00	0.00	N
ATOM	10977	HN	PHE	1156	1.920	103.217	66.983	1.00	0.00	H
ATOM	10978	CA	PHE	1156	1.407	101.379	67.965	1.00	0.00	C
ATOM	10979	CB	PHE	1156	0.887	100.602	66.739	1.00	0.00	C
ATOM	10980	CG	PHE	1156	1.908	100.640	65.656	1.00	0.00	C
ATOM	10981	CD1	PHE	1156	2.898	99.685	65.593	1.00	0.00	C
ATOM	10982	CD2	PHE	1156	1.875	101.623	64.697	1.00	0.00	C
ATOM	10983	CE1	PHE	1156	3.841	99.716	64.594	1.00	0.00	C
ATOM	10984	CE2	PHE	1156	2.815	101.661	63.694	1.00	0.00	C
ATOM	10985	CZ	PHE	1156	3.801	100.706	63.641	1.00	0.00	C
ATOM	10986	C	PHE	1156	2.778	100.884	68.280	1.00	0.00	C
ATOM	10987	O	PHE	1156	3.772	101.392	67.763	1.00	0.00	O
ATOM	10988	N	GLN	1157	2.861	99.905	69.199	1.00	0.00	N
ATOM	10989	HN	GLN	1157	2.022	99.611	69.699	1.00	0.00	H
ATOM	10990	CA	GLN	1157	4.111	99.272	69.483	1.00	0.00	C
ATOM	10991	CB	GLN	1157	4.336	98.973	70.973	1.00	0.00	C
ATOM	10992	CG	GLN	1157	4.338	100.225	71.846	1.00	0.00	C
ATOM	10993	CD	GLN	1157	5.458	101.134	71.363	1.00	0.00	C
ATOM	10994	OE1	GLN	1157	6.403	100.686	70.715	1.00	0.00	O
ATOM	10995	NE2	GLN	1157	5.345	102.453	71.677	1.00	0.00	N
ATOM	10996	1HE2	GLN	1157	6.096	103.063	71.353	1.00	0.00	H
ATOM	10997	2HE2	GLN	1157	4.562	102.824	72.214	1.00	0.00	H
ATOM	10998	C	GLN	1157	3.950	97.969	68.808	1.00	0.00	C
ATOM	10999	O	GLN	1157	3.070	97.217	69.220	1.00	0.00	O
ATOM	11000	N	ASN	1158	4.838	97.675	67.826	1.00	0.00	N
ATOM	11001	HN	ASN	1158	5.650	98.286	67.740	1.00	0.00	H
ATOM	11002	CA	ASN	1158	4.743	96.578	66.889	1.00	0.00	C
ATOM	11003	CB	ASN	1158	6.098	95.989	66.450	1.00	0.00	C
ATOM	11004	CG	ASN	1158	6.710	96.848	65.355	1.00	0.00	C
ATOM	11005	OD1	ASN	1158	6.005	97.531	64.614	1.00	0.00	O
ATOM	11006	ND2	ASN	1158	8.063	96.785	65.227	1.00	0.00	N
ATOM	11007	1HD2	ASN	1158	8.474	97.361	64.492	1.00	0.00	H
ATOM	11008	2HD2	ASN	1158	8.648	96.219	65.842	1.00	0.00	H
ATOM	11009	C	ASN	1158	3.954	95.431	67.430	1.00	0.00	C
ATOM	11010	O	ASN	1158	4.364	94.743	68.363	1.00	0.00	O
ATOM	11011	N	GLY	1159	2.749	95.248	66.853	1.00	0.00	N
ATOM	11012	HN	GLY	1159	2.448	95.906	66.134	1.00	0.00	H
ATOM	11013	CA	GLY	1159	1.873	94.172	67.205	1.00	0.00	C
ATOM	11014	C	GLY	1159	0.741	94.648	68.074	1.00	0.00	C
ATOM	11015	O	GLY	1159	-0.355	94.095	67.985	1.00	0.00	O
ATOM	11016	N	ARG	1160	0.949	95.685	68.922	1.00	0.00	N
ATOM	11017	HN	ARG	1160	1.845	96.172	68.933	1.00	0.00	H
ATOM	11018	CA	ARG	1160	-0.116	96.092	69.810	1.00	0.00	C
ATOM	11019	CB	ARG	1160	0.149	95.738	71.281	1.00	0.00	C
ATOM	11020	CG	ARG	1160	0.832	94.388	71.494	1.00	0.00	C
ATOM	11021	CD	ARG	1160	2.339	94.466	71.236	1.00	0.00	C
ATOM	11022	NE	ARG	1160	2.944	93.184	71.692	1.00	0.00	N
ATOM	11023	HE	ARG	1160	2.383	92.332	71.716	1.00	0.00	H

ATOM	11024	CZ	ARG	1160	4.252	93.155	72.077	1.00	0.00	
ATOM	11025	NH1	ARG	1160	4.995	94.299	72.042	1.00	0.00	
ATOM	11026	1HH1	ARG	1160	4.576	95.172	71.721	1.00	0.00	
ATOM	11027	2HH1	ARG	1160	5.973	94.277	72.330	1.00	0.00	
ATOM	11028	NH2	ARG	1160	4.813	91.987	72.506	1.00	0.00	
ATOM	11029	1HH2	ARG	1160	4.258	91.132	72.532	1.00	0.00	
ATOM	11030	2HH2	ARG	1160	5.791	91.965	72.794	1.00	0.00	
ATOM	11031	C	ARG	1160	-0.195	97.595	69.821	1.00	0.00	
ATOM	11032	O	ARG	1160	0.834	98.269	69.805	1.00	0.00	
ATOM	11033	N	VAL	1161	-1.421	98.169	69.890	1.00	0.00	
ATOM	11034	HN	VAL	1161	-2.260	97.590	69.927	1.00	0.00	
ATOM	11035	CA	VAL	1161	-1.525	99.607	69.911	1.00	0.00	
ATOM	11036	CB	VAL	1161	-2.673	100.135	69.096	1.00	0.00	
ATOM	11037	CG1	VAL	1161	-3.990	99.539	69.621	1.00	0.00	
ATOM	11038	CG2	VAL	1161	-2.624	101.670	69.137	1.00	0.00	
ATOM	11039	C	VAL	1161	-1.678	100.081	71.332	1.00	0.00	
ATOM	11040	O	VAL	1161	-2.662	99.777	72.006	1.00	0.00	
ATOM	11041	N	LYS	1162	-0.631	100.768	71.843	1.00	0.00	
ATOM	11042	HN	LYS	1162	0.171	100.927	71.234	1.00	0.00	
ATOM	11043	CA	LYS	1162	-0.564	101.291	73.182	1.00	0.00	
ATOM	11044	CB	LYS	1162	0.886	101.457	73.662	1.00	0.00	
ATOM	11045	CG	LYS	1162	0.980	101.571	75.181	1.00	0.00	
ATOM	11046	CD	LYS	1162	0.610	100.266	75.891	1.00	0.00	
ATOM	11047	CE	LYS	1162	0.649	100.355	77.415	1.00	0.00	
ATOM	11048	NZ	LYS	1162	0.289	99.045	78.005	1.00	0.00	
ATOM	11049	HZ1	LYS	1162	0.315	99.104	79.023	1.00	0.00	
ATOM	11050	HZ2	LYS	1162	0.877	98.291	77.650	1.00	0.00	
ATOM	11051	HZ3	LYS	1162	-0.610	98.705	77.664	1.00	0.00	
ATOM	11052	C	LYS	1162	-1.263	102.612	73.415	1.00	0.00	
ATOM	11053	O	LYS	1162	-1.977	102.769	74.405	1.00	0.00	
ATOM	11054	N	GLU	1163	-1.075	103.616	72.528	1.00	0.00	
ATOM	11055	HN	GLU	1163	-0.560	103.456	71.662	1.00	0.00	
ATOM	11056	CA	GLU	1163	-1.618	104.918	72.833	1.00	0.00	
ATOM	11057	CB	GLU	1163	-0.576	105.968	73.250	1.00	0.00	
ATOM	11058	CG	GLU	1163	0.012	105.767	74.644	1.00	0.00	
ATOM	11059	CD	GLU	1163	0.834	107.008	74.961	1.00	0.00	
ATOM	11060	OE1	GLU	1163	1.050	107.828	74.029	1.00	0.00	
ATOM	11061	OE2	GLU	1163	1.251	107.158	76.140	1.00	0.00	
ATOM	11062	C	GLU	1163	-2.270	105.487	71.621	1.00	0.00	
ATOM	11063	O	GLU	1163	-2.197	104.916	70.535	1.00	0.00	
ATOM	11064	N	HIS	1164	-2.982	106.622	71.804	1.00	0.00	
ATOM	11065	HN	HIS	1164	-3.106	106.999	72.744	1.00	0.00	
ATOM	11066	CA	HIS	1164	-3.563	1				

ATOM	11098	NE2	HIS	1167	3.410	115.946	68.638	1.00	0.00	N
ATOM	11099	HE2	HIS	1167	4.269	115.659	68.168	1.00	0.00	H
ATOM	11100	CD2	HIS	1167	2.108	115.790	68.193	1.00	0.00	C
ATOM	11101	CE1	HIS	1167	3.291	116.549	69.807	1.00	0.00	C
ATOM	11102	C	HIS	1167	-0.749	115.786	71.391	1.00	0.00	C
ATOM	11103	O	HIS	1167	-0.088	115.090	72.160	1.00	0.00	O
ATOM	11104	N	GLN	1168	-1.338	116.927	71.802	1.00	0.00	N
ATOM	11105	HN	GLN	1168	-1.973	117.428	71.180	1.00	0.00	H
ATOM	11106	CA	GLN	1168	-1.068	117.436	73.122	1.00	0.00	C
ATOM	11107	CB	GLN	1168	-1.735	118.793	73.418	1.00	0.00	C
ATOM	11108	CG	GLN	1168	-3.261	118.750	73.534	1.00	0.00	C
ATOM	11109	CD	GLN	1168	-3.853	118.336	72.198	1.00	0.00	C
ATOM	11110	OE1	GLN	1168	-4.142	117.161	71.987	1.00	0.00	O
ATOM	11111	NE2	GLN	1168	-4.042	119.316	71.273	1.00	0.00	N
ATOM	11112	1HE2	GLN	1168	-3.802	120.292	71.448	1.00	0.00	H
ATOM	11113	2HE2	GLN	1168	-4.440	119.038	70.376	1.00	0.00	H
ATOM	11114	C	GLN	1168	-1.601	116.449	74.098	1.00	0.00	C
ATOM	11115	O	GLN	1168	-1.043	116.247	75.175	1.00	0.00	O
ATOM	11116	N	GLN	1169	-2.721	115.814	73.728	1.00	0.00	N
ATOM	11117	HN	GLN	1169	-3.122	116.028	72.815	1.00	0.00	H
ATOM	11118	CA	GLN	1169	-3.380	114.852	74.552	1.00	0.00	C
ATOM	11119	CB	GLN	1169	-4.643	114.333	73.848	1.00	0.00	C
ATOM	11120	CG	GLN	1169	-5.456	113.294	74.615	1.00	0.00	C
ATOM	11121	CD	GLN	1169	-6.646	112.943	73.731	1.00	0.00	C
ATOM	11122	OE1	GLN	1169	-6.921	113.624	72.744	1.00	0.00	O
ATOM	11123	NE2	GLN	1169	-7.379	111.857	74.094	1.00	0.00	N
ATOM	11124	1HE2	GLN	1169	-7.151	111.292	74.912	1.00	0.00	H
ATOM	11125	2HE2	GLN	1169	-8.176	111.622	73.502	1.00	0.00	H
ATOM	11126	C	GLN	1169	-2.431	113.714	74.765	1.00	0.00	C
ATOM	11127	O	GLN	1169	-2.331	113.175	75.865	1.00	0.00	O
ATOM	11128	N	LEU	1170	-1.707	113.324	73.701	1.00	0.00	N
ATOM	11129	HN	LEU	1170	-1.832	113.810	72.813	1.00	0.00	H
ATOM	11130	CA	LEU	1170	-0.763	112.244	73.776	1.00	0.00	C
ATOM	11131	CB	LEU	1170	-0.150	111.910	72.406	1.00	0.00	C
ATOM	11132	CG	LEU	1170	-1.166	111.361	71.389	1.00	0.00	C
ATOM	11133	CD1	LEU	1170	-0.484	111.055	70.046	1.00	0.00	C
ATOM	11134	CD2	LEU	1170	-1.931	110.153	71.957	1.00	0.00	C
ATOM	11135	C	LEU	1170	0.364	112.631	74.681	1.00	0.00	C
ATOM	11136	O	LEU	1170	0.796	111.846	75.526	1.00	0.00	O
ATOM	11137	N	LEU	1171	0.862	113.873	74.535	1.00	0.00	N
ATOM	11138	HN	LEU	1171	0.450	114.504	73.848	1.00	0.00	H
ATOM	11139	CA	LEU	1171	1.963	114.317	75.333	1.00	0.00	C
ATOM	11140	CB	LEU	1171	2.408	115.749	74.986	1.00	0.00	C
ATOM	11141	CG	LEU	1171	3.794	116.122	75.551	1.00	0.00	C
ATOM	11142	CD1	LEU	1171	3.840	116.068	77.086	1.00	0.00	C
ATOM	11143	CD2	LEU	1171	4.894	115.272	74.895	1.00	0.00	C
ATOM	11144	C	LEU	1171	1.453	114.306	76.732	1.00	0.00	C
ATOM	11145	O	LEU	1171	2.178	113.962	77.663	1.00	0.00	O
ATOM	11146	N	ALA	1172	0.160	114.648	76.902	1.00	0.00	N
ATOM	11147	HN	ALA	1172	-0.409	114.882	76.088	1.00	0.00	H
ATOM	11148	CA	ALA	1172	-0.426	114.688	78.208	1.00	0.00	C
ATOM	11149	CB	ALA	1172	-1.938	114.973	78.177	1.00	0.00	C
ATOM	11150	C	ALA	1172	-0.240	113.325	78.781	1.00	0.00	C
ATOM	11151	O	ALA	1172	0.109	113.187	79.953	1.00	0.00	O
ATOM	11152	N	GLN	1173	-0.450	112.275	77.962	1.00	0.00	N
ATOM	11153	HN	GLN	1173	-0.782	112.408	77.007	1.00	0.00	H
ATOM	11154	CA	GLN	1173	-0.190	110.968	78.482	1.00	0.00	C
ATOM	11155	CB	GLN	1173	-0.855	109.821	77.696	1.00	0.00	C
ATOM	11156	CG	GLN	1173	-2.369	109.702	77.902	1.00	0.00	C
ATOM	11157	CD	GLN	1173	-3.069	110.791	77.104	1.00	0.00	C
ATOM	11158	OE1	GLN	1173	-3.572	111.762	77.666	1.00	0.00	O
ATOM	11159	NE2	GLN	1173	-3.103	110.627	75.754	1.00	0.00	N
ATOM	11160	1HE2	GLN	1173	-2.686	109.821	75.288	1.00	0.00	H
ATOM	11161	2HE2	GLN	1173	-3.573	111.357	75.219	1.00	0.00	H
ATOM	11162	C	GLN	1173	1.288	110.785	78.396	1.00	0.00	C
ATOM	11163	O	GLN	1173	1.801	110.119	77.497	1.00	0.00	O
ATOM	11164	N	LYS	1174	2.010	111.349	79.381	1.00	0.00	N
ATOM	11165	HN	LYS	1174	1.532	111.822	80.148	1.00	0.00	H
ATOM	11166	CA	LYS	1174	3.440	111.294	79.368	1.00	0.00	C
ATOM	11167	CB	LYS	1174	4.092	111.899	80.627	1.00	0.00	C
ATOM	11168	CG	LYS	1174	3.434	113.187	81.133	1.00	0.00	C
ATOM	11169	CD	LYS	1174	3.340	114.315	80.112	1.00	0.00	C
ATOM	11170	CE	LYS	1174	2.375	115.427	80.530	1.00	0.00	C
ATOM	11171	NZ	LYS	1174	2.001	116.239	79.352	1.00	0.00	N

ATOM	11172	HZ1	LYS	1174	1.358	116.980	79.631	1.00	0.00	H
ATOM	11173	HZ2	LYS	1174	1.622	115.667	78.597	1.00	0.00	H
ATOM	11174	HZ3	LYS	1174	2.819	116.605	78.864	1.00	0.00	H
ATOM	11175	C	LYS	1174	3.771	109.844	79.390	1.00	0.00	C
ATOM	11176	O	LYS	1174	3.225	109.090	80.195	1.00	0.00	O
ATOM	11177	N	GLY	1175	4.682	109.408	78.504	1.00	0.00	N
ATOM	11178	HN	GLY	1175	5.147	110.054	77.866	1.00	0.00	H
ATOM	11179	CA	GLY	1175	4.978	108.012	78.484	1.00	0.00	C
ATOM	11180	C	GLY	1175	5.667	107.702	77.198	1.00	0.00	C
ATOM	11181	O	GLY	1175	6.655	108.341	76.842	1.00	0.00	O
ATOM	11182	N	ILE	1176	5.166	106.680	76.475	1.00	0.00	N
ATOM	11183	HN	ILE	1176	4.311	106.207	76.769	1.00	0.00	H
ATOM	11184	CA	ILE	1176	5.853	106.268	75.286	1.00	0.00	C
ATOM	11185	CB	ILE	1176	5.331	104.992	74.683	1.00	0.00	C
ATOM	11186	CG1	ILE	1176	3.835	105.072	74.361	1.00	0.00	C
ATOM	11187	CG2	ILE	1176	5.676	103.859	75.653	1.00	0.00	C
ATOM	11188	CD1	ILE	1176	2.975	105.091	75.622	1.00	0.00	C
ATOM	11189	C	ILE	1176	5.884	107.324	74.222	1.00	0.00	C
ATOM	11190	O	ILE	1176	6.967	107.714	73.795	1.00	0.00	O
ATOM	11191	N	TYR	1177	4.730	107.894	73.832	1.00	0.00	N
ATOM	11192	HN	TYR	1177	3.862	107.636	74.300	1.00	0.00	H
ATOM	11193	CA	TYR	1177	4.696	108.862	72.766	1.00	0.00	C
ATOM	11194	CB	TYR	1177	3.277	109.419	72.541	1.00	0.00	C
ATOM	11195	CG	TYR	1177	3.326	110.431	71.448	1.00	0.00	C
ATOM	11196	CD1	TYR	1177	3.313	110.047	70.128	1.00	0.00	C
ATOM	11197	CD2	TYR	1177	3.381	111.774	71.752	1.00	0.00	C
ATOM	11198	CE1	TYR	1177	3.355	110.989	69.127	1.00	0.00	C
ATOM	11199	CE2	TYR	1177	3.424	112.720	70.757	1.00	0.00	C
ATOM	11200	CZ	TYR	1177	3.411	112.326	69.441	1.00	0.00	C
ATOM	11201	OH	TYR	1177	3.454	113.293	68.415	1.00	0.00	O
ATOM	11202	HH	TYR	1177	3.493	114.217	68.632	1.00	0.00	H
ATOM	11203	C	TYR	1177	5.590	109.996	73.163	1.00	0.00	C
ATOM	11204	O	TYR	1177	6.282	110.585	72.332	1.00	0.00	O
ATOM	11205	N	PHE	1178	5.575	110.336	74.462	1.00	0.00	N
ATOM	11206	HN	PHE	1178	4.975	109.809	75.097	1.00	0.00	H
ATOM	11207	CA	PHE	1178	6.366	111.408	74.996	1.00	0.00	C
ATOM	11208	CB	PHE	1178	6.145	111.537	76.517	1.00	0.00	C
ATOM	11209	CG	PHE	1178	6.879	112.714	77.063	1.00	0.00	C
ATOM	11210	CD1	PHE	1178	8.246	112.682	77.213	1.00	0.00	C
ATOM	11211	CD2	PHE	1178	6.190	113.838	77.460	1.00	0.00	C
ATOM	11212	CE1	PHE	1178	8.919	113.765	77.727	1.00	0.00	C
ATOM	11213	CE2	PHE	1178	6.858	114.924	77.976	1.00	0.00	C
ATOM	11214	CZ	PHE	1178	8.225	114.889	78.109	1.00	0.00	C
ATOM	11215	C	PHE	1178	7.811	111.080	74.765	1.00	0.00	C
ATOM	11216	O	PHE	1178	8.561	111.877	74.199	1.00	0.00	O
ATOM	11217	N	SER	1179	8.224	109.856	75.145	1.00	0.00	N
ATOM	11218	HN	SER	1179	7.549	109.187	75.516	1.00	0.00	H
ATOM	11219	CA	SER	1179	9.603	109.485	75.032	1.00	0.00	C
ATOM	11220	CB	SER	1179	9.904	108.083	75.593	1.00	0.00	C
ATOM	11221	OG	SER	1179	9.249	107.085	74.826	1.00	0.00	O
ATOM	11222	HG	SER	1179	9.435	106.220	75.172	1.00	0.00	H
ATOM	11223	C	SER	1179	9.971	109.508	73.585	1.00	0.00	C
ATOM	11224	O	SER	1179	11.139	109.656	73.249	1.00	0.00	O
ATOM	11225	N	MET	1180	8.993	109.330	72.680	1.00	0.00	N
ATOM	11226	HN	MET	1180	8.041	109.152	72.999	1.00	0.00	H
ATOM	11227	CA	MET	1180	9.267	109.387	71.269	1.00	0.00	C
ATOM	11228	CB	MET	1180	8.007	109.119	70.424	1.00	0.00	C
ATOM	11229	CG	MET	1180	7.421	107.708	70.554	1.00	0.00	C
ATOM	11230	SD	MET	1180	8.290	106.420	69.609	1.00	0.00	S
ATOM	11231	CE	MET	1180	9.751	106.346	70.685	1.00	0.00	C
ATOM	11232	C	MET	1180	9.697	110.780	70.946	1.00	0.00	C
ATOM	11233	O	MET	1180	10.641	111.003	70.190	1.00	0.00	O
ATOM	11234	N	VAL	1181	8.989	111.761	71.529	1.00	0.00	N
ATOM	11235	HN	VAL	1181	8.209	111.514	72.138	1.00	0.00	H
ATOM	11236	CA	VAL	1181	9.297	113.139	71.321	1.00	0.00	C
ATOM	11237	CB	VAL	1181	8.345	114.038	72.052	1.00	0.00	C
ATOM	11238	CG1	VAL	1181	8.729	115.502	71.793	1.00	0.00	C
ATOM	11239	CG2	VAL	1181	6.910	113.665	71.639	1.00	0.00	C
ATOM	11240	C	VAL	1181	10.653	113.291	71.928	1.00	0.00	C
ATOM	11241	O	VAL	1181	11.481	114.086	71.487	1.00	0.00	O
ATOM	11242	N	SER	1182	10.884	112.517	72.999	1.00	0.00	N
ATOM	11243	HN	SER	1182	10.140	111.897	73.318	1.00	0.00	H
ATOM	11244	CA	SER	1182	12.126	112.518	73.719	1.00	0.00	C
ATOM	11245	CB	SER	1182	12.052	111.601	74.950	1.00	0.00	C

ATOM	11246	OG	SER	1182	13.286	111.613	75.646	1.00	0.00	0	
ATOM	11247	HG	SER	1182	13.240	111.046	76.407	1.00	0.00	H	
ATOM	11248	C	SER	1182	13.280	112.043	72.844	1.00	0.00	C	
ATOM	11249	O	SER	1182	14.304	112.721	72.763	1.00	0.00	O	
ATOM	11250	N	VAL	1183	13.150	110.880	72.157	1.00	0.00	N	
ATOM	11251	HN	VAL	1183	12.258	110.389	72.217	1.00	0.00	H	
ATOM	11252	CA	VAL	1183	14.195	110.288	71.343	1.00	0.00	C	
ATOM	11253	CB	VAL	1183	13.797	108.979	70.714	1.00	0.00	C	
ATOM	11254	CG1	VAL	1183	12.666	109.217	69.701	1.00	0.00	C	
ATOM	11255	CG2	VAL	1183	15.052	108.339	70.102	1.00	0.00	C	
ATOM	11256	C	VAL	1183	14.476	111.287	70.252	1.00	0.00	C	
ATOM	11257	O	VAL	1183	15.630	111.502	69.888	1.00	0.00	O	
ATOM	11258	N	GLN	1184	13.416	111.938	69.714	1.00	0.00	N	
ATOM	11259	HN	GLN	1184	12.482	111.762	70.084	1.00	0.00	H	
ATOM	11260	CA	GLN	1184	13.580	112.872	68.631	1.00	0.00	C	
ATOM	11261	CB	GLN	1184	12.265	113.277	67.926	1.00	0.00	C	
ATOM	11262	CG	GLN	1184	11.279	114.085	68.764	1.00	0.00	C	
ATOM	11263	CD	GLN	1184	10.053	114.390	67.914	1.00	0.00	C	
ATOM	11264	OE1	GLN	1184	8.929	114.402	68.412	1.00	0.00	O	
ATOM	11265	NE2	GLN	1184	10.268	114.653	66.598	1.00	0.00	N	
ATOM	11266	1HE2	GLN	1184	11.201	114.643	66.185	1.00	0.00	H	
ATOM	11267	2HE2	GLN	1184	9.447	114.857	66.029	1.00	0.00	H	
ATOM	11268	C	GLN	1184	14.325	114.092	69.072	1.00	0.00	C	
ATOM	11269	O	GLN	1184	15.158	114.596	68.321	1.00	0.00	O	
ATOM	11270	N	ALA	1185	14.056	114.586	70.299	1.00	0.00	N	
ATOM	11271	HN	ALA	1185	13.362	114.117	70.880	1.00	0.00	H	
ATOM	11272	CA	ALA	1185	14.719	115.753	70.810	1.00	0.00	C	
ATOM	11273	CB	ALA	1185	16.197	115.504	71.162	1.00	0.00	C	
ATOM	11274	C	ALA	1185	14.648	116.862	69.767	1.00	0.00	C	
ATOM	11275	O	ALA	1185	15.731	117.362	69.361	1.00	0.00	O	
ATOM	11276	OXT	ALA	1185	13.510	117.228	69.365	1.00	0.00	O	
MASTER	0	0	0	0	0	0	0	11287	0	11287	0
HEADER	NONAME	22-Feb-18								NONE	1
TITLE										NONE	2
AUTHOR	Apache									NONE	3
REVDAT	1	22-Feb-18	0							NONE	4
ATOM	1	C	LIG	0	40.382	66.501	26.098	0.00	0.00	C+0	
ATOM	2	C	LIG	0	40.353	65.597	27.142	0.00	0.00	C+0	
ATOM	3	C	LIG	0	41.370	64.672	27.285	0.00	0.00	C+0	
ATOM	4	C	LIG	0	42.417	64.651	26.382	0.00	0.00	C+0	
ATOM	5	C	LIG	0	42.446	65.555	25.337	0.00	0.00	C+0	
ATOM	6	C	LIG	0	41.429	66.480	25.196	0.00	0.00	C+0	
ATOM	7	C	LIG	0	43.526	63.643	26.538	0.00	0.00	C+0	
ATOM	8	C	LIG	0	42.960	62.246	26.696	0.0			