

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								

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	C
ATOM	11025	NH1	ARG	1160	4.995	94.299	72.042	1.00	0.00	N
ATOM	11026	1HH1	ARG	1160	4.576	95.172	71.721	1.00	0.00	H
ATOM	11027	2HH1	ARG	1160	5.973	94.277	72.330	1.00	0.00	H
ATOM	11028	NH2	ARG	1160	4.813	91.987	72.506	1.00	0.00	N
ATOM	11029	1HH2	ARG	1160	4.258	91.132	72.532	1.00	0.00	H
ATOM	11030	2HH2	ARG	1160	5.791	91.965	72.794	1.00	0.00	H
ATOM	11031	C	ARG	1160	-0.195	97.595	69.821	1.00	0.00	C
ATOM	11032	O	ARG	1160	0.834	98.269	69.805	1.00	0.00	O
ATOM	11033	N	VAL	1161	-1.421	98.169	69.890	1.00	0.00	N
ATOM	11034	HN	VAL	1161	-2.260	97.590	69.927	1.00	0.00	H
ATOM	11035	CA	VAL	1161	-1.525	99.607	69.911	1.00	0.00	C
ATOM	11036	CB	VAL	1161	-2.673	100.135	69.096	1.00	0.00	C
ATOM	11037	CG1	VAL	1161	-3.990	99.539	69.621	1.00	0.00	C
ATOM	11038	CG2	VAL	1161	-2.624	101.670	69.137	1.00	0.00	C
ATOM	11039	C	VAL	1161	-1.678	100.081	71.332	1.00	0.00	C
ATOM	11040	O	VAL	1161	-2.662	99.777	72.006	1.00	0.00	O
ATOM	11041	N	LYS	1162	-0.631	100.768	71.843	1.00	0.00	N
ATOM	11042	HN	LYS	1162	0.171	100.927	71.234	1.00	0.00	H
ATOM	11043	CA	LYS	1162	-0.564	101.291	73.182	1.00	0.00	C
ATOM	11044	CB	LYS	1162	0.886	101.457	73.662	1.00	0.00	C
ATOM	11045	CG	LYS	1162	0.980	101.571	75.181	1.00	0.00	C
ATOM	11046	CD	LYS	1162	0.610	100.266	75.891	1.00	0.00	C
ATOM	11047	CE	LYS	1162	0.649	100.355	77.415	1.00	0.00	C
ATOM	11048	NZ	LYS	1162	0.289	99.045	78.005	1.00	0.00	N
ATOM	11049	HZ1	LYS	1162	0.315	99.104	79.023	1.00	0.00	H
ATOM	11050	HZ2	LYS	1162	0.877	98.291	77.650	1.00	0.00	H
ATOM	11051	HZ3	LYS	1162	-0.610	98.705	77.664	1.00	0.00	H
ATOM	11052	C	LYS	1162	-1.263	102.612	73.415	1.00	0.00	C
ATOM	11053	O	LYS	1162	-1.977	102.769	74.405	1.00	0.00	O
ATOM	11054	N	GLU	1163	-1.075	103.616	72.528	1.00	0.00	N
ATOM	11055	HN	GLU	1163	-0.560	103.456	71.662	1.00	0.00	H
ATOM	11056	CA	GLU	1163	-1.618	104.918	72.833	1.00	0.00	C
ATOM	11057	CB	GLU	1163	-0.576	105.968	73.250	1.00	0.00	C
ATOM	11058	CG	GLU	1163	0.012	105.767	74.644	1.00	0.00	C
ATOM	11059	CD	GLU	1163	0.834	107.008	74.961	1.00	0.00	C
ATOM	11060	OE1	GLU	1163	1.050	107.828	74.029	1.00	0.00	O
ATOM	11061	OE2	GLU	1163	1.251	107.158	76.140	1.00	0.00	O
ATOM	11062	C	GLU	1163	-2.270	105.487	71.621	1.00	0.00	C
ATOM	11063	O	GLU	1163	-2.197	104.916	70.535	1.00	0.00	O
ATOM	11064	N	HIS	1164	-2.982	106.622	71.804	1.00	0.00	N
ATOM	11065	HN	HIS	1164	-3.106	106.999	72.744	1.00	0.00	H
ATOM	11066	CA	HIS	1164	-3.563	107.296	70.681	1.00	0.00	C
ATOM	11067	ND1	HIS	1164	-6.850	106.941	70.620	1.00	0.00	N
ATOM	11068	HD1	HIS	1164	-6.886	107.905	70.288	1.00	0.00	H
ATOM	11069	CG	HIS	1164	-5.791	106.070	70.499	1.00	0.00	C
ATOM	11070	CB	HIS	1164	-4.499	106.420	69.826	1.00	0.00	C
ATOM	11071	NE2	HIS	1164	-7.486	105.032	71.565	1.00	0.00	N
ATOM	11072	HE2	HIS	1164	-8.043	104.325	72.045	1.00	0.00	H
ATOM	11073	CD2	HIS	1164	-6.196	104.909	71.082	1.00	0.00	C
ATOM	11074	CE1	HIS	1164	-7.836	106.270	71.265	1.00	0.00	C
ATOM	11075	C	HIS	1164	-4.344	108.473	71.173	1.00	0.00	C
ATOM	11076	O	HIS	1164	-4.633	108.592	72.364	1.00	0.00	O
ATOM	11077	N	GLY	1165	-4.698	109.389	70.248	1.00	0.00	N
ATOM	11078	HN	GLY	1165	-4.425	109.250	69.275	1.00	0.00	H
ATOM	11079	CA	GLY	1165	-5.451	110.555	70.609	1.00	0.00	C
ATOM	11080	C	GLY	1165	-4.862	111.722	69.878	1.00	0.00	C
ATOM	11081	O	GLY	1165	-4.255	111.566	68.819	1.00	0.00	O
ATOM	11082	N	THR	1166	-5.051	112.938	70.436	1.00	0.00	N
ATOM	11083	HN	THR	1166	-5.570	113.002	71.311	1.00	0.00	H
ATOM	11084	CA	THR	1166	-4.547	114.143	69.841	1.00	0.00	C
ATOM	11085	CB	THR	1166	-5.305	115.365	70.263	1.00	0.00	C
ATOM	11086	OG1	THR	1166	-6.689	115.178	70.038	1.00	0.00	O
ATOM	11087	HG1	THR	1166	-6.982	114.444	70.565	1.00	0.00	H
ATOM	11088	CG2	THR	1166	-4.832	116.549	69.412	1.00	0.00	C
ATOM	11089	C	THR	1166	-3.141	114.323	70.331	1.00	0.00	C
ATOM	11090	O	THR	1166	-2.736	113.713	71.319	1.00	0.00	O
ATOM	11091	N	HIS	1167	-2.363	115.196	69.659	1.00	0.00	N
ATOM	11092	HN	HIS	1167	-2.772	115.763	68.917	1.00	0.00	H
ATOM	11093	CA	HIS	1167	-0.967	115.341	69.971	1.00	0.00	C
ATOM	11094	ND1	HIS	1167	1.995	116.787	70.133	1.00	0.00	N
ATOM	11095	HD1	HIS	1167	1.655	117.240	70.981	1.00	0.00	H
ATOM	11096	CG	HIS	1167	1.228	116.300	69.098	1.00	0.00	C
ATOM	11097	CB	HIS	1167	-0.272	116.361	69.048	1.00	0.00	C

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	O
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
HETATM	11277	C	LIG	1	12.842	77.753	17.212	1.00	0.00	C
HETATM	11278	C	LIG	1	13.165	76.506	18.056	1.00	0.00	C
HETATM	11279	C	LIG	1	12.435	76.437	19.403	1.00	0.00	C
HETATM	11280	C	LIG	1	12.125	75.020	19.861	1.00	0.00	C
HETATM	11281	C	LIG	1	12.958	79.061	18.021	1.00	0.00	C
HETATM	11282	C	LIG	1	11.688	79.469	18.776	1.00	0.00	C
HETATM	11283	C	LIG	1	10.921	80.546	18.023	1.00	0.00	C
HETATM	11284	C	LIG	1	11.463	77.661	16.573	1.00	0.00	C
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HETATM	11286	O	LIG	1	10.839	76.491	16.863	1.00	0.00	O
HETATM	11287	H	LIG	1	11.276	75.726	16.430	1.00	0.00	H
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