

EXPDTA THEORETICAL MODEL, MODELLER 9.15 2016/04/13 10:21:39

REMARK 6 MODELLER OBJECTIVE FUNCTION: -131744.7656

REMARK 6 MODELLER BEST TEMPLATE % SEQ ID: 89.086

REMARK 6 SEQUENCE: human

REMARK 6 DOPE score: -131744.76563

REMARK 6 GA341 score: 1.00000

REMARK 6 TEMPLATE: 3G5UA

ATOM	1	N	VAL	1	49.342	80.515	8.408	1.00	35.82	N
ATOM	2	CA	VAL	1	50.373	80.927	9.384	1.00	35.82	C
ATOM	3	CB	VAL	1	50.613	82.405	9.288	1.00	35.82	C
ATOM	4	CG1	VAL	1	51.198	82.706	7.896	1.00	35.82	C
ATOM	5	CG2	VAL	1	49.293	83.140	9.573	1.00	35.82	C
ATOM	6	C	VAL	1	49.935	80.574	10.761	1.00	35.82	C
ATOM	7	O	VAL	1	49.431	79.481	10.974	1.00	35.82	O
ATOM	8	N	SER	2	50.059	81.491	11.734	1.00	48.92	N
ATOM	9	CA	SER	2	49.744	81.156	13.094	1.00	48.92	C
ATOM	10	CB	SER	2	49.887	82.359	14.039	1.00	48.92	C
ATOM	11	OG	SER	2	49.003	83.398	13.645	1.00	48.92	O
ATOM	12	C	SER	2	48.335	80.659	13.168	1.00	48.92	C
ATOM	13	O	SER	2	48.022	79.795	13.985	1.00	48.92	O
ATOM	14	N	VAL	3	47.437	81.169	12.305	1.00	85.79	N
ATOM	15	CA	VAL	3	46.095	80.687	12.413	1.00	85.79	C
ATOM	16	CB	VAL	3	45.163	81.380	11.448	1.00	85.79	C
ATOM	17	CG1	VAL	3	45.044	82.851	11.865	1.00	85.79	C
ATOM	18	CG2	VAL	3	45.707	81.260	10.014	1.00	85.79	C
ATOM	19	C	VAL	3	46.032	79.196	12.191	1.00	85.79	C
ATOM	20	O	VAL	3	45.829	78.472	13.158	1.00	85.79	O
ATOM	21	N	PHE	4	46.225	78.669	10.956	1.00	85.07	N
ATOM	22	CA	PHE	4	46.113	77.241	10.762	1.00	85.07	C
ATOM	23	CB	PHE	4	45.734	76.796	9.332	1.00	85.07	C
ATOM	24	CG	PHE	4	46.806	77.098	8.345	1.00	85.07	C
ATOM	25	CD1	PHE	4	47.897	76.269	8.224	1.00	85.07	C
ATOM	26	CD2	PHE	4	46.703	78.190	7.515	1.00	85.07	C
ATOM	27	CE1	PHE	4	48.880	76.538	7.301	1.00	85.07	C
ATOM	28	CE2	PHE	4	47.685	78.463	6.593	1.00	85.07	C
ATOM	29	CZ	PHE	4	48.777	77.638	6.485	1.00	85.07	C
ATOM	30	C	PHE	4	47.345	76.513	11.215	1.00	85.07	C
ATOM	31	O	PHE	4	47.265	75.456	11.837	1.00	85.07	O
ATOM	32	N	SER	5	48.526	77.067	10.880	1.00	58.63	N
ATOM	33	CA	SER	5	49.816	76.509	11.184	1.00	58.63	C
ATOM	34	CB	SER	5	50.980	77.271	10.524	1.00	58.63	C
ATOM	35	OG	SER	5	50.881	77.192	9.111	1.00	58.63	O
ATOM	36	C	SER	5	50.093	76.492	12.656	1.00	58.63	C
ATOM	37	O	SER	5	50.372	75.427	13.196	1.00	58.63	O
ATOM	38	N	MET	6	50.007	77.644	13.359	1.00	126.87	N
ATOM	39	CA	MET	6	50.296	77.627	14.771	1.00	126.87	C
ATOM	40	CB	MET	6	50.148	78.979	15.496	1.00	126.87	C
ATOM	41	CG	MET	6	50.657	78.932	16.940	1.00	126.87	C
ATOM	42	SD	MET	6	52.468	78.994	17.096	1.00	126.87	S
ATOM	43	CE	MET	6	52.614	77.799	18.453	1.00	126.87	C
ATOM	44	C	MET	6	49.278	76.711	15.333	1.00	126.87	C
ATOM	45	O	MET	6	49.553	75.944	16.254	1.00	126.87	O
ATOM	46	N	PHE	7	48.082	76.741	14.719	1.00	145.81	N
ATOM	47	CA	PHE	7	47.006	75.909	15.156	1.00	145.81	C
ATOM	48	CB	PHE	7	45.735	76.011	14.301	1.00	145.81	C
ATOM	49	CG	PHE	7	44.643	75.282	15.001	1.00	145.81	C
ATOM	50	CD1	PHE	7	44.485	73.926	14.834	1.00	145.81	C
ATOM	51	CD2	PHE	7	43.776	75.960	15.826	1.00	145.81	C
ATOM	52	CE1	PHE	7	43.476	73.254	15.481	1.00	145.81	C
ATOM	53	CE2	PHE	7	42.767	75.292	16.476	1.00	145.81	C
ATOM	54	CZ	PHE	7	42.614	73.937	16.304	1.00	145.81	C
ATOM	55	C	PHE	7	47.460	74.497	15.039	1.00	145.81	C
ATOM	56	O	PHE	7	47.180	73.680	15.914	1.00	145.81	O
ATOM	57	N	ARG	8	48.147	74.145	13.937	1.00	190.73	N
ATOM	58	CA	ARG	8	48.579	72.785	13.862	1.00	190.73	C
ATOM	59	CB	ARG	8	48.087	72.089	12.588	1.00	190.73	C
ATOM	60	CG	ARG	8	48.265	70.574	12.587	1.00	190.73	C
ATOM	61	CD	ARG	8	47.596	69.922	11.379	1.00	190.73	C
ATOM	62	NE	ARG	8	48.113	70.637	10.180	1.00	190.73	N
ATOM	63	CZ	ARG	8	47.411	70.614	9.009	1.00	190.73	C
ATOM	64	NH1	ARG	8	46.238	69.924	8.929	1.00	190.73	N
ATOM	65	NH2	ARG	8	47.886	71.284	7.919	1.00	190.73	N
ATOM	66	C	ARG	8	50.074	72.800	13.867	1.00	190.73	C
ATOM	67	O	ARG	8	50.705	72.707	12.816	1.00	190.73	O

ATOM	68	N	TYR	9	50.678	72.878	15.073	1.00132.41	N
ATOM	69	CA	TYR	9	52.105	72.959	15.209	1.00132.41	C
ATOM	70	CB	TYR	9	52.594	74.227	15.941	1.00132.41	C
ATOM	71	CG	TYR	9	52.370	74.074	17.410	1.00132.41	C
ATOM	72	CD1	TYR	9	51.104	74.041	17.948	1.00132.41	C
ATOM	73	CD2	TYR	9	53.449	73.996	18.262	1.00132.41	C
ATOM	74	CE1	TYR	9	50.918	73.907	19.305	1.00132.41	C
ATOM	75	CE2	TYR	9	53.272	73.862	19.620	1.00132.41	C
ATOM	76	CZ	TYR	9	52.003	73.815	20.145	1.00132.41	C
ATOM	77	OH	TYR	9	51.814	73.677	21.537	1.00132.41	O
ATOM	78	C	TYR	9	52.499	71.780	16.052	1.00132.41	C
ATOM	79	O	TYR	9	51.673	70.915	16.331	1.00132.41	O
ATOM	80	N	SER	10	53.784	71.701	16.453	1.00118.07	N
ATOM	81	CA	SER	10	54.299	70.655	17.302	1.00118.07	C
ATOM	82	CB	SER	10	53.885	70.820	18.777	1.00118.07	C
ATOM	83	OG	SER	10	52.474	70.745	18.910	1.00118.07	O
ATOM	84	C	SER	10	53.962	69.249	16.854	1.00118.07	C
ATOM	85	O	SER	10	53.069	68.623	17.424	1.00118.07	O
ATOM	86	N	ASN	11	54.633	68.702	15.799	1.00220.00	N
ATOM	87	CA	ASN	11	54.298	67.330	15.472	1.00220.00	C
ATOM	88	CB	ASN	11	53.066	67.221	14.550	1.00220.00	C
ATOM	89	CG	ASN	11	51.930	68.139	14.978	1.00220.00	C
ATOM	90	OD1	ASN	11	51.795	69.238	14.443	1.00220.00	O
ATOM	91	ND2	ASN	11	51.077	67.683	15.933	1.00220.00	N
ATOM	92	C	ASN	11	55.337	66.696	14.577	1.00220.00	C
ATOM	93	O	ASN	11	55.158	66.733	13.360	1.00220.00	O
ATOM	94	N	TRP	12	56.447	66.102	15.072	1.00120.06	N
ATOM	95	CA	TRP	12	57.231	65.454	14.053	1.00120.06	C
ATOM	96	CB	TRP	12	58.649	65.065	14.495	1.00120.06	C
ATOM	97	CG	TRP	12	59.450	64.515	13.342	1.00120.06	C
ATOM	98	CD2	TRP	12	60.834	64.137	13.413	1.00120.06	C
ATOM	99	CD1	TRP	12	59.052	64.293	12.058	1.00120.06	C
ATOM	100	NE1	TRP	12	60.103	63.808	11.317	1.00120.06	N
ATOM	101	CE2	TRP	12	61.205	63.705	12.140	1.00120.06	C
ATOM	102	CE3	TRP	12	61.719	64.152	14.449	1.00120.06	C
ATOM	103	CZ2	TRP	12	62.478	63.278	11.887	1.00120.06	C
ATOM	104	CZ3	TRP	12	63.001	63.718	14.193	1.00120.06	C
ATOM	105	CH2	TRP	12	63.372	63.289	12.935	1.00120.06	C
ATOM	106	C	TRP	12	56.538	64.197	13.604	1.00120.06	C
ATOM	107	O	TRP	12	55.891	64.152	12.559	1.00120.06	O
ATOM	108	N	LEU	13	56.553	63.174	14.484	1.00124.42	N
ATOM	109	CA	LEU	13	56.005	61.874	14.210	1.00124.42	C
ATOM	110	CB	LEU	13	56.147	60.882	15.375	1.00124.42	C
ATOM	111	CG	LEU	13	57.585	60.665	15.869	1.00124.42	C
ATOM	112	CD1	LEU	13	58.133	61.925	16.557	1.00124.42	C
ATOM	113	CD2	LEU	13	57.668	59.423	16.763	1.00124.42	C
ATOM	114	C	LEU	13	54.545	62.082	14.060	1.00124.42	C
ATOM	115	O	LEU	13	53.844	61.304	13.415	1.00124.42	O
ATOM	116	N	ASP	14	54.045	63.115	14.752	1.00 77.76	N
ATOM	117	CA	ASP	14	52.647	63.398	14.723	1.00 77.76	C
ATOM	118	CB	ASP	14	52.262	64.593	15.613	1.00 77.76	C
ATOM	119	CG	ASP	14	52.363	64.178	17.076	1.00 77.76	C
ATOM	120	OD1	ASP	14	51.716	63.161	17.441	1.00 77.76	O
ATOM	121	OD2	ASP	14	53.076	64.872	17.850	1.00 77.76	O
ATOM	122	C	ASP	14	52.236	63.739	13.325	1.00 77.76	C
ATOM	123	O	ASP	14	51.354	63.105	12.748	1.00 77.76	O
ATOM	124	N	LYS	15	52.926	64.707	12.700	1.00 83.54	N
ATOM	125	CA	LYS	15	52.500	65.136	11.402	1.00 83.54	C
ATOM	126	CB	LYS	15	53.318	66.322	10.863	1.00 83.54	C
ATOM	127	CG	LYS	15	52.617	67.089	9.738	1.00 83.54	C
ATOM	128	CD	LYS	15	53.185	68.497	9.540	1.00 83.54	C
ATOM	129	CE	LYS	15	52.359	69.391	8.611	1.00 83.54	C
ATOM	130	NZ	LYS	15	52.712	69.124	7.200	1.00 83.54	N
ATOM	131	C	LYS	15	52.574	63.978	10.446	1.00 83.54	C
ATOM	132	O	LYS	15	51.742	63.865	9.548	1.00 83.54	O
ATOM	133	N	LEU	16	53.574	63.086	10.598	1.00103.43	N
ATOM	134	CA	LEU	16	53.654	61.952	9.712	1.00103.43	C
ATOM	135	CB	LEU	16	54.795	60.963	10.019	1.00103.43	C
ATOM	136	CG	LEU	16	56.229	61.388	9.662	1.00103.43	C
ATOM	137	CD1	LEU	16	56.759	62.520	10.547	1.00103.43	C
ATOM	138	CD2	LEU	16	57.150	60.160	9.671	1.00103.43	C
ATOM	139	C	LEU	16	52.444	61.095	9.870	1.00103.43	C
ATOM	140	O	LEU	16	51.794	60.724	8.893	1.00103.43	O
ATOM	141	N	TYR	17	52.092	60.774	11.124	1.00 65.99	N

ATOM	142	CA	TYR	17	51.014	59.856	11.324	1.00	65.99	C
ATOM	143	CB	TYR	17	50.755	59.493	12.798	1.00	65.99	C
ATOM	144	CG	TYR	17	49.874	58.294	12.739	1.00	65.99	C
ATOM	145	CD1	TYR	17	50.429	57.064	12.464	1.00	65.99	C
ATOM	146	CD2	TYR	17	48.516	58.382	12.945	1.00	65.99	C
ATOM	147	CE1	TYR	17	49.648	55.937	12.394	1.00	65.99	C
ATOM	148	CE2	TYR	17	47.729	57.255	12.876	1.00	65.99	C
ATOM	149	CZ	TYR	17	48.294	56.032	12.600	1.00	65.99	C
ATOM	150	OH	TYR	17	47.489	54.875	12.527	1.00	65.99	O
ATOM	151	C	TYR	17	49.787	60.497	10.765	1.00	65.99	C
ATOM	152	O	TYR	17	48.915	59.826	10.215	1.00	65.99	O
ATOM	153	N	MET	18	49.691	61.831	10.901	1.00	75.18	N
ATOM	154	CA	MET	18	48.531	62.541	10.451	1.00	75.18	C
ATOM	155	CB	MET	18	48.697	64.056	10.660	1.00	75.18	C
ATOM	156	CG	MET	18	47.509	64.899	10.193	1.00	75.18	C
ATOM	157	SD	MET	18	47.722	66.686	10.446	1.00	75.18	S
ATOM	158	CE	MET	18	47.732	66.548	12.256	1.00	75.18	C
ATOM	159	C	MET	18	48.302	62.324	8.982	1.00	75.18	C
ATOM	160	O	MET	18	47.228	61.886	8.572	1.00	75.18	O
ATOM	161	N	VAL	19	49.331	62.549	8.147	1.00	99.35	N
ATOM	162	CA	VAL	19	49.149	62.457	6.728	1.00	99.35	C
ATOM	163	CB	VAL	19	50.406	62.749	5.960	1.00	99.35	C
ATOM	164	CG1	VAL	19	50.828	64.199	6.248	1.00	99.35	C
ATOM	165	CG2	VAL	19	51.473	61.704	6.329	1.00	99.35	C
ATOM	166	C	VAL	19	48.736	61.063	6.395	1.00	99.35	C
ATOM	167	O	VAL	19	47.927	60.842	5.494	1.00	99.35	O
ATOM	168	N	VAL	20	49.299	60.080	7.119	1.00	47.47	N
ATOM	169	CA	VAL	20	48.998	58.708	6.842	1.00	47.47	C
ATOM	170	CB	VAL	20	49.631	57.763	7.823	1.00	47.47	C
ATOM	171	CG1	VAL	20	49.050	56.360	7.579	1.00	47.47	C
ATOM	172	CG2	VAL	20	51.161	57.834	7.689	1.00	47.47	C
ATOM	173	C	VAL	20	47.526	58.489	6.982	1.00	47.47	C
ATOM	174	O	VAL	20	46.865	58.012	6.060	1.00	47.47	O
ATOM	175	N	GLY	21	46.966	58.897	8.132	1.00	36.01	N
ATOM	176	CA	GLY	21	45.589	58.637	8.436	1.00	36.01	C
ATOM	177	C	GLY	21	44.710	59.284	7.420	1.00	36.01	C
ATOM	178	O	GLY	21	43.667	58.739	7.058	1.00	36.01	O
ATOM	179	N	THR	22	45.098	60.476	6.940	1.00	54.65	N
ATOM	180	CA	THR	22	44.265	61.153	5.996	1.00	54.65	C
ATOM	181	CB	THR	22	44.868	62.434	5.505	1.00	54.65	C
ATOM	182	OG1	THR	22	45.125	63.298	6.602	1.00	54.65	O
ATOM	183	CG2	THR	22	43.877	63.107	4.544	1.00	54.65	C
ATOM	184	C	THR	22	44.099	60.247	4.821	1.00	54.65	C
ATOM	185	O	THR	22	42.985	60.022	4.354	1.00	54.65	O
ATOM	186	N	LEU	23	45.202	59.622	4.380	1.00	106.86	N
ATOM	187	CA	LEU	23	45.173	58.816	3.198	1.00	106.86	C
ATOM	188	CB	LEU	23	46.526	58.130	2.947	1.00	106.86	C
ATOM	189	CG	LEU	23	46.729	57.485	1.556	1.00	106.86	C
ATOM	190	CD1	LEU	23	48.048	56.700	1.541	1.00	106.86	C
ATOM	191	CD2	LEU	23	45.537	56.652	1.053	1.00	106.86	C
ATOM	192	C	LEU	23	44.160	57.735	3.398	1.00	106.86	C
ATOM	193	O	LEU	23	43.349	57.472	2.510	1.00	106.86	O
ATOM	194	N	ALA	24	44.153	57.110	4.590	1.00	37.19	N
ATOM	195	CA	ALA	24	43.263	56.011	4.827	1.00	37.19	C
ATOM	196	CB	ALA	24	43.321	55.492	6.272	1.00	37.19	C
ATOM	197	C	ALA	24	41.876	56.508	4.600	1.00	37.19	C
ATOM	198	O	ALA	24	41.046	55.815	4.013	1.00	37.19	O
ATOM	199	N	ALA	25	41.599	57.748	5.031	1.00	49.49	N
ATOM	200	CA	ALA	25	40.273	58.269	4.881	1.00	49.49	C
ATOM	201	CB	ALA	25	40.133	59.703	5.417	1.00	49.49	C
ATOM	202	C	ALA	25	39.923	58.291	3.426	1.00	49.49	C
ATOM	203	O	ALA	25	38.827	57.895	3.029	1.00	49.49	O
ATOM	204	N	ILE	26	40.878	58.706	2.582	1.00	81.16	N
ATOM	205	CA	ILE	26	40.602	58.859	1.186	1.00	81.16	C
ATOM	206	CB	ILE	26	41.846	59.299	0.487	1.00	81.16	C
ATOM	207	CG1	ILE	26	42.300	60.634	1.096	1.00	81.16	C
ATOM	208	CG2	ILE	26	41.587	59.342	-1.027	1.00	81.16	C
ATOM	209	CD1	ILE	26	43.775	60.930	0.869	1.00	81.16	C
ATOM	210	C	ILE	26	40.170	57.543	0.605	1.00	81.16	C
ATOM	211	O	ILE	26	39.087	57.433	0.033	1.00	81.16	O
ATOM	212	N	ILE	27	40.956	56.479	0.826	1.00	52.16	N
ATOM	213	CA	ILE	27	40.682	55.210	0.209	1.00	52.16	C
ATOM	214	CB	ILE	27	41.679	54.159	0.593	1.00	52.16	C
ATOM	215	CG1	ILE	27	41.595	53.846	2.097	1.00	52.16	C

ATOM	216	CG2	ILE	27	43.060	54.664	0.149	1.00	52.16	C
ATOM	217	CD1	ILE	27	42.371	52.593	2.500	1.00	52.16	C
ATOM	218	C	ILE	27	39.334	54.729	0.648	1.00	52.16	C
ATOM	219	O	ILE	27	38.589	54.145	-0.137	1.00	52.16	O
ATOM	220	N	HIS	28	38.996	54.959	1.928	1.00	75.69	N
ATOM	221	CA	HIS	28	37.765	54.503	2.510	1.00	75.69	C
ATOM	222	ND1	HIS	28	36.104	53.077	4.762	1.00	75.69	N
ATOM	223	CG	HIS	28	36.491	54.398	4.736	1.00	75.69	C
ATOM	224	CB	HIS	28	37.685	54.914	3.993	1.00	75.69	C
ATOM	225	NE2	HIS	28	34.661	54.187	6.039	1.00	75.69	N
ATOM	226	CD2	HIS	28	35.598	55.061	5.522	1.00	75.69	C
ATOM	227	CE1	HIS	28	35.006	53.008	5.555	1.00	75.69	C
ATOM	228	C	HIS	28	36.578	55.073	1.774	1.00	75.69	C
ATOM	229	O	HIS	28	35.650	54.339	1.428	1.00	75.69	O
ATOM	230	N	GLY	29	36.581	56.391	1.487	1.00	33.18	N
ATOM	231	CA	GLY	29	35.446	56.989	0.831	1.00	33.18	C
ATOM	232	C	GLY	29	35.293	56.345	-0.502	1.00	33.18	C
ATOM	233	O	GLY	29	34.187	56.025	-0.933	1.00	33.18	O
ATOM	234	N	ALA	30	36.425	56.102	-1.177	1.00	37.91	N
ATOM	235	CA	ALA	30	36.410	55.507	-2.478	1.00	37.91	C
ATOM	236	CB	ALA	30	37.821	55.255	-3.035	1.00	37.91	C
ATOM	237	C	ALA	30	35.732	54.180	-2.348	1.00	37.91	C
ATOM	238	O	ALA	30	35.065	53.715	-3.272	1.00	37.91	O
ATOM	239	N	GLY	31	35.889	53.522	-1.187	1.00	37.85	N
ATOM	240	CA	GLY	31	35.327	52.212	-1.028	1.00	37.85	C
ATOM	241	C	GLY	31	33.838	52.247	-1.242	1.00	37.85	C
ATOM	242	O	GLY	31	33.293	51.390	-1.936	1.00	37.85	O
ATOM	243	N	LEU	32	33.129	53.247	-0.687	1.00	111.15	N
ATOM	244	CA	LEU	32	31.690	53.238	-0.779	1.00	111.15	C
ATOM	245	CB	LEU	32	31.016	54.395	-0.018	1.00	111.15	C
ATOM	246	CG	LEU	32	31.081	54.246	1.514	1.00	111.15	C
ATOM	247	CD1	LEU	32	30.304	53.000	1.966	1.00	111.15	C
ATOM	248	CD2	LEU	32	32.524	54.276	2.043	1.00	111.15	C
ATOM	249	C	LEU	32	31.215	53.268	-2.204	1.00	111.15	C
ATOM	250	O	LEU	32	30.329	52.488	-2.557	1.00	111.15	O
ATOM	251	N	PRO	33	31.709	54.122	-3.050	1.00	100.38	N
ATOM	252	CA	PRO	33	31.253	54.091	-4.411	1.00	100.38	C
ATOM	253	CD	PRO	33	32.045	55.471	-2.654	1.00	100.38	C
ATOM	254	CB	PRO	33	31.708	55.407	-5.042	1.00	100.38	C
ATOM	255	CG	PRO	33	32.559	56.093	-3.955	1.00	100.38	C
ATOM	256	C	PRO	33	31.690	52.894	-5.183	1.00	100.38	C
ATOM	257	O	PRO	33	30.952	52.452	-6.063	1.00	100.38	O
ATOM	258	N	LEU	34	32.879	52.347	-4.882	1.00	95.83	N
ATOM	259	CA	LEU	34	33.309	51.221	-5.655	1.00	95.83	C
ATOM	260	CB	LEU	34	34.712	50.703	-5.269	1.00	95.83	C
ATOM	261	CG	LEU	34	35.339	49.721	-6.292	1.00	95.83	C
ATOM	262	CD1	LEU	34	36.717	49.220	-5.829	1.00	95.83	C
ATOM	263	CD2	LEU	34	34.396	48.571	-6.677	1.00	95.83	C
ATOM	264	C	LEU	34	32.295	50.163	-5.362	1.00	95.83	C
ATOM	265	O	LEU	34	31.835	49.446	-6.251	1.00	95.83	O
ATOM	266	N	MET	35	31.856	50.119	-4.092	1.00	194.15	N
ATOM	267	CA	MET	35	30.907	49.148	-3.647	1.00	194.15	C
ATOM	268	CB	MET	35	30.446	49.410	-2.206	1.00	194.15	C
ATOM	269	CG	MET	35	31.502	49.079	-1.157	1.00	194.15	C
ATOM	270	SD	MET	35	31.582	47.313	-0.733	1.00	194.15	S
ATOM	271	CE	MET	35	30.392	47.408	0.637	1.00	194.15	C
ATOM	272	C	MET	35	29.697	49.282	-4.513	1.00	194.15	C
ATOM	273	O	MET	35	29.085	48.283	-4.888	1.00	194.15	O
ATOM	274	N	MET	36	29.304	50.522	-4.856	1.00	166.28	N
ATOM	275	CA	MET	36	28.152	50.644	-5.702	1.00	166.28	C
ATOM	276	CB	MET	36	27.731	52.094	-5.965	1.00	166.28	C
ATOM	277	CG	MET	36	26.711	52.648	-4.965	1.00	166.28	C
ATOM	278	SD	MET	36	27.247	52.777	-3.236	1.00	166.28	S
ATOM	279	CE	MET	36	26.840	51.058	-2.811	1.00	166.28	C
ATOM	280	C	MET	36	28.383	49.960	-7.017	1.00	166.28	C
ATOM	281	O	MET	36	27.584	49.112	-7.412	1.00	166.28	O
ATOM	282	N	LEU	37	29.528	50.220	-7.680	1.00	70.49	N
ATOM	283	CA	LEU	37	29.753	49.666	-8.990	1.00	70.49	C
ATOM	284	CB	LEU	37	31.161	49.948	-9.540	1.00	70.49	C
ATOM	285	CG	LEU	37	31.503	49.107	-10.790	1.00	70.49	C
ATOM	286	CD1	LEU	37	30.555	49.404	-11.960	1.00	70.49	C
ATOM	287	CD2	LEU	37	32.987	49.241	-11.167	1.00	70.49	C
ATOM	288	C	LEU	37	29.641	48.176	-8.959	1.00	70.49	C
ATOM	289	O	LEU	37	28.972	47.589	-9.810	1.00	70.49	O

ATOM	290	N	VAL	38	30.260	47.523	-7.962	1.00	98.21	N
ATOM	291	CA	VAL	38	30.259	46.090	-7.945	1.00	98.21	C
ATOM	292	CB	VAL	38	30.991	45.499	-6.775	1.00	98.21	C
ATOM	293	CG1	VAL	38	32.452	45.976	-6.830	1.00	98.21	C
ATOM	294	CG2	VAL	38	30.247	45.863	-5.481	1.00	98.21	C
ATOM	295	C	VAL	38	28.846	45.634	-7.866	1.00	98.21	C
ATOM	296	O	VAL	38	28.475	44.637	-8.482	1.00	98.21	O
ATOM	297	N	PHE	39	28.012	46.383	-7.126	1.00	101.74	N
ATOM	298	CA	PHE	39	26.638	46.015	-6.979	1.00	101.74	C
ATOM	299	CB	PHE	39	25.844	47.048	-6.152	1.00	101.74	C
ATOM	300	CG	PHE	39	24.377	46.768	-6.208	1.00	101.74	C
ATOM	301	CD1	PHE	39	23.806	45.771	-5.450	1.00	101.74	C
ATOM	302	CD2	PHE	39	23.567	47.512	-7.036	1.00	101.74	C
ATOM	303	CE1	PHE	39	22.452	45.530	-5.515	1.00	101.74	C
ATOM	304	CE2	PHE	39	22.214	47.279	-7.105	1.00	101.74	C
ATOM	305	CZ	PHE	39	21.653	46.284	-6.341	1.00	101.74	C
ATOM	306	C	PHE	39	26.077	45.942	-8.361	1.00	101.74	C
ATOM	307	O	PHE	39	25.263	45.071	-8.658	1.00	101.74	O
ATOM	308	N	GLY	40	26.491	46.858	-9.252	1.00	48.01	N
ATOM	309	CA	GLY	40	25.963	46.836	-10.586	1.00	48.01	C
ATOM	310	C	GLY	40	26.353	45.623	-11.379	1.00	48.01	C
ATOM	311	O	GLY	40	25.497	44.966	-11.965	1.00	48.01	O
ATOM	312	N	GLU	41	27.648	45.263	-11.402	1.00	116.86	N
ATOM	313	CA	GLU	41	28.082	44.192	-12.261	1.00	116.86	C
ATOM	314	CB	GLU	41	29.601	43.953	-12.210	1.00	116.86	C
ATOM	315	CG	GLU	41	30.083	42.864	-13.174	1.00	116.86	C
ATOM	316	CD	GLU	41	30.089	43.407	-14.600	1.00	116.86	C
ATOM	317	OE1	GLU	41	30.512	44.578	-14.795	1.00	116.86	O
ATOM	318	OE2	GLU	41	29.685	42.645	-15.519	1.00	116.86	O
ATOM	319	C	GLU	41	27.410	42.928	-11.842	1.00	116.86	C
ATOM	320	O	GLU	41	27.049	42.090	-12.669	1.00	116.86	O
ATOM	321	N	MET	42	27.244	42.748	-10.523	1.00	90.23	N
ATOM	322	CA	MET	42	26.599	41.563	-10.056	1.00	90.23	C
ATOM	323	CB	MET	42	26.581	41.448	-8.519	1.00	90.23	C
ATOM	324	CG	MET	42	25.737	42.507	-7.806	1.00	90.23	C
ATOM	325	SD	MET	42	25.710	42.336	-5.996	1.00	90.23	S
ATOM	326	CE	MET	42	27.442	42.841	-5.792	1.00	90.23	C
ATOM	327	C	MET	42	25.192	41.609	-10.557	1.00	90.23	C
ATOM	328	O	MET	42	24.620	40.598	-10.958	1.00	90.23	O
ATOM	329	N	THR	43	24.600	42.815	-10.556	1.00	47.87	N
ATOM	330	CA	THR	43	23.243	43.004	-10.978	1.00	47.87	C
ATOM	331	CB	THR	43	22.780	44.423	-10.826	1.00	47.87	C
ATOM	332	OG1	THR	43	22.832	44.816	-9.464	1.00	47.87	O
ATOM	333	CG2	THR	43	21.342	44.540	-11.354	1.00	47.87	C
ATOM	334	C	THR	43	23.094	42.668	-12.431	1.00	47.87	C
ATOM	335	O	THR	43	22.087	42.083	-12.827	1.00	47.87	O
ATOM	336	N	ASP	44	24.070	43.054	-13.277	1.00	56.53	N
ATOM	337	CA	ASP	44	23.935	42.810	-14.688	1.00	56.53	C
ATOM	338	CB	ASP	44	25.054	43.431	-15.541	1.00	56.53	C
ATOM	339	CG	ASP	44	24.721	44.898	-15.772	1.00	56.53	C
ATOM	340	OD1	ASP	44	23.513	45.254	-15.733	1.00	56.53	O
ATOM	341	OD2	ASP	44	25.676	45.681	-16.013	1.00	56.53	O
ATOM	342	C	ASP	44	23.902	41.343	-14.979	1.00	56.53	C
ATOM	343	O	ASP	44	23.056	40.871	-15.739	1.00	56.53	O
ATOM	344	N	ILE	45	24.794	40.571	-14.343	1.00	134.49	N
ATOM	345	CA	ILE	45	24.861	39.165	-14.608	1.00	134.49	C
ATOM	346	CB	ILE	45	25.924	38.475	-13.792	1.00	134.49	C
ATOM	347	CG1	ILE	45	26.286	37.125	-14.421	1.00	134.49	C
ATOM	348	CG2	ILE	45	25.458	38.377	-12.331	1.00	134.49	C
ATOM	349	CD1	ILE	45	27.047	37.280	-15.737	1.00	134.49	C
ATOM	350	C	ILE	45	23.512	38.620	-14.245	1.00	134.49	C
ATOM	351	O	ILE	45	22.994	37.694	-14.873	1.00	134.49	O
ATOM	352	N	PHE	46	22.911	39.222	-13.202	1.00	72.60	N
ATOM	353	CA	PHE	46	21.640	38.843	-12.658	1.00	72.60	C
ATOM	354	CB	PHE	46	21.278	39.669	-11.407	1.00	72.60	C
ATOM	355	CG	PHE	46	20.131	39.019	-10.706	1.00	72.60	C
ATOM	356	CD1	PHE	46	20.353	37.957	-9.859	1.00	72.60	C
ATOM	357	CD2	PHE	46	18.841	39.467	-10.878	1.00	72.60	C
ATOM	358	CE1	PHE	46	19.311	37.349	-9.200	1.00	72.60	C
ATOM	359	CE2	PHE	46	17.793	38.864	-10.222	1.00	72.60	C
ATOM	360	CZ	PHE	46	18.027	37.801	-9.383	1.00	72.60	C
ATOM	361	C	PHE	46	20.562	39.051	-13.685	1.00	72.60	C
ATOM	362	O	PHE	46	19.611	38.272	-13.771	1.00	72.60	O
ATOM	363	N	ALA	47	20.651	40.152	-14.453	1.00	47.53	N

ATOM	364	CA	ALA	47	19.670	40.443	-15.460	1.00	47.53	C
ATOM	365	CB	ALA	47	19.898	41.810	-16.130	1.00	47.53	C
ATOM	366	C	ALA	47	19.723	39.411	-16.542	1.00	47.53	C
ATOM	367	O	ALA	47	18.687	38.911	-16.972	1.00	47.53	O
ATOM	368	N	ASN	48	20.942	39.044	-16.987	1.00	78.22	N
ATOM	369	CA	ASN	48	21.122	38.141	-18.095	1.00	78.22	C
ATOM	370	CB	ASN	48	22.610	37.894	-18.411	1.00	78.22	C
ATOM	371	CG	ASN	48	22.715	37.177	-19.750	1.00	78.22	C
ATOM	372	OD1	ASN	48	23.157	36.032	-19.831	1.00	78.22	O
ATOM	373	ND2	ASN	48	22.295	37.877	-20.837	1.00	78.22	N
ATOM	374	C	ASN	48	20.504	36.821	-17.759	1.00	78.22	C
ATOM	375	O	ASN	48	19.811	36.223	-18.583	1.00	78.22	O
ATOM	376	N	ALA	49	20.738	36.329	-16.529	1.00	37.67	N
ATOM	377	CA	ALA	49	20.190	35.067	-16.127	1.00	37.67	C
ATOM	378	CB	ALA	49	20.598	34.653	-14.703	1.00	37.67	C
ATOM	379	C	ALA	49	18.701	35.181	-16.133	1.00	37.67	C
ATOM	380	O	ALA	49	17.989	34.258	-16.523	1.00	37.67	O
ATOM	381	N	GLY	50	18.188	36.325	-15.664	1.00	46.06	N
ATOM	382	CA	GLY	50	16.776	36.568	-15.630	1.00	46.06	C
ATOM	383	C	GLY	50	16.258	36.662	-17.038	1.00	46.06	C
ATOM	384	O	GLY	50	15.084	36.419	-17.301	1.00	46.06	O
ATOM	385	N	ASN	51	17.104	37.121	-17.973	1.00	63.79	N
ATOM	386	CA	ASN	51	16.736	37.302	-19.347	1.00	63.79	C
ATOM	387	CB	ASN	51	17.874	37.941	-20.163	1.00	63.79	C
ATOM	388	CG	ASN	51	17.432	38.037	-21.613	1.00	63.79	C
ATOM	389	OD1	ASN	51	17.404	37.038	-22.331	1.00	63.79	O
ATOM	390	ND2	ASN	51	17.073	39.270	-22.059	1.00	63.79	N
ATOM	391	C	ASN	51	16.431	35.975	-19.966	1.00	63.79	C
ATOM	392	O	ASN	51	15.494	35.840	-20.746	1.00	63.79	O
ATOM	393	N	LEU	52	17.271	34.961	-19.725	1.00	173.97	N
ATOM	394	CA	LEU	52	16.926	33.670	-20.235	1.00	173.97	C
ATOM	395	CB	LEU	52	18.094	32.669	-20.201	1.00	173.97	C
ATOM	396	CG	LEU	52	19.241	32.990	-21.175	1.00	173.97	C
ATOM	397	CD1	LEU	52	20.361	31.940	-21.079	1.00	173.97	C
ATOM	398	CD2	LEU	52	18.716	33.159	-22.607	1.00	173.97	C
ATOM	399	C	LEU	52	15.836	33.061	-19.393	1.00	173.97	C
ATOM	400	O	LEU	52	14.957	32.359	-19.891	1.00	173.97	O
ATOM	401	N	GLU	53	15.971	33.227	-18.062	1.00	179.39	N
ATOM	402	CA	GLU	53	15.139	32.605	-17.060	1.00	179.39	C
ATOM	403	CB	GLU	53	15.836	32.592	-15.694	1.00	179.39	C
ATOM	404	CG	GLU	53	15.007	31.938	-14.590	1.00	179.39	C
ATOM	405	CD	GLU	53	15.484	32.501	-13.259	1.00	179.39	C
ATOM	406	OE1	GLU	53	15.159	33.686	-12.975	1.00	179.39	O
ATOM	407	OE2	GLU	53	16.170	31.761	-12.508	1.00	179.39	O
ATOM	408	C	GLU	53	13.786	33.162	-16.730	1.00	179.39	C
ATOM	409	O	GLU	53	12.793	32.451	-16.861	1.00	179.39	O
ATOM	410	N	ASP	54	13.740	34.446	-16.295	1.00	180.82	N
ATOM	411	CA	ASP	54	12.625	35.147	-15.690	1.00	180.82	C
ATOM	412	CB	ASP	54	11.798	36.009	-16.674	1.00	180.82	C
ATOM	413	CG	ASP	54	10.929	37.026	-15.937	1.00	180.82	C
ATOM	414	OD1	ASP	54	11.049	37.140	-14.690	1.00	180.82	O
ATOM	415	OD2	ASP	54	10.128	37.712	-16.626	1.00	180.82	O
ATOM	416	C	ASP	54	11.744	34.159	-14.979	1.00	180.82	C
ATOM	417	O	ASP	54	12.203	33.120	-14.504	1.00	180.82	O
ATOM	418	N	LEU	55	10.459	34.501	-14.770	1.00	158.00	N
ATOM	419	CA	LEU	55	9.612	33.469	-14.258	1.00	158.00	C
ATOM	420	CB	LEU	55	8.150	33.911	-14.089	1.00	158.00	C
ATOM	421	CG	LEU	55	7.233	32.804	-13.540	1.00	158.00	C
ATOM	422	CD1	LEU	55	7.642	32.393	-12.116	1.00	158.00	C
ATOM	423	CD2	LEU	55	5.754	33.209	-13.641	1.00	158.00	C
ATOM	424	C	LEU	55	9.674	32.501	-15.376	1.00	158.00	C
ATOM	425	O	LEU	55	9.796	31.289	-15.204	1.00	158.00	O
ATOM	426	N	MET	56	9.574	33.077	-16.583	1.00	197.78	N
ATOM	427	CA	MET	56	9.817	32.405	-17.815	1.00	197.78	C
ATOM	428	CB	MET	56	8.540	31.904	-18.509	1.00	197.78	C
ATOM	429	CG	MET	56	7.814	30.780	-17.772	1.00	197.78	C
ATOM	430	SD	MET	56	6.291	30.213	-18.589	1.00	197.78	S
ATOM	431	CE	MET	56	5.235	31.554	-17.967	1.00	197.78	C
ATOM	432	C	MET	56	10.300	33.509	-18.679	1.00	197.78	C
ATOM	433	O	MET	56	9.504	34.038	-19.452	1.00	197.78	O
ATOM	434	N	SER	57	11.575	33.944	-18.557	1.00	166.65	N
ATOM	435	CA	SER	57	11.875	34.998	-19.454	1.00	166.65	C
ATOM	436	CB	SER	57	13.219	35.684	-19.240	1.00	166.65	C
ATOM	437	OG	SER	57	13.245	36.846	-20.056	1.00	166.65	O

ATOM	438	C	SER	57	11.858	34.388	-20.812	1.00166.65	C
ATOM	439	O	SER	57	10.868	34.418	-21.541	1.00166.65	O
ATOM	440	N	ASN	58	12.980	33.766	-21.185	1.00181.00	N
ATOM	441	CA	ASN	58	12.918	33.036	-22.401	1.00181.00	C
ATOM	442	CB	ASN	58	13.845	33.547	-23.515	1.00181.00	C
ATOM	443	CG	ASN	58	13.617	32.652	-24.727	1.00181.00	C
ATOM	444	OD1	ASN	58	12.568	32.708	-25.366	1.00181.00	O
ATOM	445	ND2	ASN	58	14.624	31.797	-25.052	1.00181.00	N
ATOM	446	C	ASN	58	13.389	31.683	-22.035	1.00181.00	C
ATOM	447	O	ASN	58	14.528	31.335	-22.324	1.00181.00	O
ATOM	448	N	ILE	59	12.507	30.892	-21.399	1.00131.46	N
ATOM	449	CA	ILE	59	12.770	29.539	-21.020	1.00131.46	C
ATOM	450	CB	ILE	59	12.430	29.184	-19.588	1.00131.46	C
ATOM	451	CG1	ILE	59	13.171	30.096	-18.608	1.00131.46	C
ATOM	452	CG2	ILE	59	12.819	27.717	-19.305	1.00131.46	C
ATOM	453	CD1	ILE	59	12.830	29.741	-17.162	1.00131.46	C
ATOM	454	C	ILE	59	11.840	28.800	-21.932	1.00131.46	C
ATOM	455	O	ILE	59	11.927	28.984	-23.145	1.00131.46	O
ATOM	456	N	THR	60	10.985	27.911	-21.391	1.00178.91	N
ATOM	457	CA	THR	60	10.046	27.136	-22.142	1.00178.91	C
ATOM	458	CB	THR	60	8.857	27.912	-22.652	1.00178.91	C
ATOM	459	OG1	THR	60	7.863	27.013	-23.116	1.00178.91	O
ATOM	460	CG2	THR	60	9.275	28.851	-23.792	1.00178.91	C
ATOM	461	C	THR	60	10.794	26.496	-23.264	1.00178.91	C
ATOM	462	O	THR	60	10.240	26.242	-24.332	1.00178.91	O
ATOM	463	N	ASN	61	12.091	26.206	-23.025	1.00 88.47	N
ATOM	464	CA	ASN	61	12.922	25.588	-24.018	1.00 88.47	C
ATOM	465	CB	ASN	61	13.645	26.565	-24.960	1.00 88.47	C
ATOM	466	CG	ASN	61	12.641	26.962	-26.033	1.00 88.47	C
ATOM	467	OD1	ASN	61	11.978	26.106	-26.618	1.00 88.47	O
ATOM	468	ND2	ASN	61	12.522	28.289	-26.299	1.00 88.47	N
ATOM	469	C	ASN	61	13.952	24.745	-23.336	1.00 88.47	C
ATOM	470	O	ASN	61	13.671	24.102	-22.325	1.00 88.47	O
ATOM	471	N	ARG	62	15.180	24.743	-23.900	1.00188.21	N
ATOM	472	CA	ARG	62	16.277	23.913	-23.482	1.00188.21	C
ATOM	473	CB	ARG	62	17.641	24.457	-23.950	1.00188.21	C
ATOM	474	CG	ARG	62	17.680	25.206	-25.291	1.00188.21	C
ATOM	475	CD	ARG	62	17.161	26.650	-25.196	1.00188.21	C
ATOM	476	NE	ARG	62	17.788	27.446	-26.294	1.00188.21	N
ATOM	477	CZ	ARG	62	17.398	28.733	-26.530	1.00188.21	C
ATOM	478	NH1	ARG	62	16.336	29.265	-25.856	1.00188.21	N
ATOM	479	NH2	ARG	62	18.071	29.493	-27.445	1.00188.21	N
ATOM	480	C	ARG	62	16.381	23.997	-21.984	1.00188.21	C
ATOM	481	O	ARG	62	16.920	24.960	-21.449	1.00188.21	O
ATOM	482	N	SER	63	15.888	22.969	-21.266	1.00 43.72	N
ATOM	483	CA	SER	63	15.915	22.953	-19.828	1.00 43.72	C
ATOM	484	CB	SER	63	15.162	21.741	-19.257	1.00 43.72	C
ATOM	485	OG	SER	63	15.210	21.755	-17.838	1.00 43.72	O
ATOM	486	C	SER	63	17.322	22.847	-19.329	1.00 43.72	C
ATOM	487	O	SER	63	17.761	23.626	-18.482	1.00 43.72	O
ATOM	488	N	ASP	64	18.074	21.875	-19.872	1.00 91.84	N
ATOM	489	CA	ASP	64	19.392	21.580	-19.391	1.00 91.84	C
ATOM	490	CB	ASP	64	20.017	20.331	-20.043	1.00 91.84	C
ATOM	491	CG	ASP	64	20.101	20.515	-21.551	1.00 91.84	C
ATOM	492	OD1	ASP	64	19.025	20.648	-22.193	1.00 91.84	O
ATOM	493	OD2	ASP	64	21.244	20.527	-22.083	1.00 91.84	O
ATOM	494	C	ASP	64	20.290	22.751	-19.603	1.00 91.84	C
ATOM	495	O	ASP	64	21.161	23.030	-18.781	1.00 91.84	O
ATOM	496	N	ILE	65	20.091	23.480	-20.709	1.00131.20	N
ATOM	497	CA	ILE	65	20.917	24.607	-21.013	1.00131.20	C
ATOM	498	CB	ILE	65	20.569	25.257	-22.325	1.00131.20	C
ATOM	499	CG1	ILE	65	21.753	26.076	-22.859	1.00131.20	C
ATOM	500	CG2	ILE	65	19.310	26.107	-22.120	1.00131.20	C
ATOM	501	CD1	ILE	65	22.916	25.208	-23.336	1.00131.20	C
ATOM	502	C	ILE	65	20.716	25.607	-19.918	1.00131.20	C
ATOM	503	O	ILE	65	21.592	26.421	-19.644	1.00131.20	O
ATOM	504	N	ASN	66	19.504	25.641	-19.335	1.00 60.20	N
ATOM	505	CA	ASN	66	19.199	26.552	-18.269	1.00 60.20	C
ATOM	506	CB	ASN	66	17.715	26.542	-17.890	1.00 60.20	C
ATOM	507	CG	ASN	66	16.933	27.164	-19.030	1.00 60.20	C
ATOM	508	OD1	ASN	66	17.488	27.603	-20.036	1.00 60.20	O
ATOM	509	ND2	ASN	66	15.591	27.218	-18.850	1.00 60.20	N
ATOM	510	C	ASN	66	19.948	26.168	-17.037	1.00 60.20	C
ATOM	511	O	ASN	66	20.485	27.017	-16.331	1.00 60.20	O

ATOM	512	N	ASP	67	19.998	24.865	-16.724	1.00100.72	N
ATOM	513	CA	ASP	67	20.666	24.511	-15.510	1.00100.72	C
ATOM	514	CB	ASP	67	20.499	23.024	-15.123	1.00100.72	C
ATOM	515	CG	ASP	67	21.146	22.109	-16.150	1.00100.72	C
ATOM	516	OD1	ASP	67	22.402	22.116	-16.251	1.00100.72	O
ATOM	517	OD2	ASP	67	20.386	21.375	-16.836	1.00100.72	O
ATOM	518	C	ASP	67	22.109	24.867	-15.656	1.00100.72	C
ATOM	519	O	ASP	67	22.748	25.326	-14.711	1.00100.72	O
ATOM	520	N	THR	68	22.674	24.652	-16.856	1.00113.46	N
ATOM	521	CA	THR	68	24.059	24.963	-17.058	1.00113.46	C
ATOM	522	CB	THR	68	24.616	24.355	-18.317	1.00113.46	C
ATOM	523	OG1	THR	68	25.995	24.669	-18.443	1.00113.46	O
ATOM	524	CG2	THR	68	23.842	24.874	-19.533	1.00113.46	C
ATOM	525	C	THR	68	24.306	26.443	-17.063	1.00113.46	C
ATOM	526	O	THR	68	25.230	26.918	-16.405	1.00113.46	O
ATOM	527	N	GLY	69	23.478	27.227	-17.783	1.00 30.47	N
ATOM	528	CA	GLY	69	23.742	28.636	-17.882	1.00 30.47	C
ATOM	529	C	GLY	69	23.640	29.259	-16.528	1.00 30.47	C
ATOM	530	O	GLY	69	24.447	30.115	-16.165	1.00 30.47	O
ATOM	531	N	PHE	70	22.607	28.865	-15.762	1.00 81.98	N
ATOM	532	CA	PHE	70	22.357	29.439	-14.475	1.00 81.98	C
ATOM	533	CB	PHE	70	20.952	29.125	-13.954	1.00 81.98	C
ATOM	534	CG	PHE	70	20.087	29.993	-14.795	1.00 81.98	C
ATOM	535	CD1	PHE	70	19.788	29.635	-16.087	1.00 81.98	C
ATOM	536	CD2	PHE	70	19.593	31.174	-14.299	1.00 81.98	C
ATOM	537	CE1	PHE	70	19.002	30.419	-16.885	1.00 81.98	C
ATOM	538	CE2	PHE	70	18.802	31.973	-15.087	1.00 81.98	C
ATOM	539	CZ	PHE	70	18.513	31.589	-16.375	1.00 81.98	C
ATOM	540	C	PHE	70	23.369	29.082	-13.436	1.00 81.98	C
ATOM	541	O	PHE	70	23.881	29.965	-12.753	1.00 81.98	O
ATOM	542	N	PHE	71	23.723	27.794	-13.301	1.00134.25	N
ATOM	543	CA	PHE	71	24.626	27.424	-12.250	1.00134.25	C
ATOM	544	CB	PHE	71	24.914	25.915	-12.183	1.00134.25	C
ATOM	545	CG	PHE	71	25.158	25.584	-10.749	1.00134.25	C
ATOM	546	CD1	PHE	71	26.319	25.934	-10.102	1.00134.25	C
ATOM	547	CD2	PHE	71	24.190	24.902	-10.048	1.00134.25	C
ATOM	548	CE1	PHE	71	26.492	25.603	-8.777	1.00134.25	C
ATOM	549	CE2	PHE	71	24.362	24.571	-8.726	1.00134.25	C
ATOM	550	CZ	PHE	71	25.521	24.924	-8.084	1.00134.25	C
ATOM	551	C	PHE	71	25.894	28.129	-12.591	1.00134.25	C
ATOM	552	O	PHE	71	26.697	28.470	-11.724	1.00134.25	O
ATOM	553	N	MET	72	26.104	28.336	-13.902	1.00 93.32	N
ATOM	554	CA	MET	72	27.293	28.988	-14.354	1.00 93.32	C
ATOM	555	CB	MET	72	27.311	29.157	-15.883	1.00 93.32	C
ATOM	556	CG	MET	72	28.585	29.808	-16.425	1.00 93.32	C
ATOM	557	SD	MET	72	28.556	30.163	-18.210	1.00 93.32	S
ATOM	558	CE	MET	72	28.661	28.432	-18.748	1.00 93.32	C
ATOM	559	C	MET	72	27.383	30.370	-13.776	1.00 93.32	C
ATOM	560	O	MET	72	28.337	30.684	-13.068	1.00 93.32	O
ATOM	561	N	ASN	73	26.359	31.216	-14.001	1.00113.57	N
ATOM	562	CA	ASN	73	26.429	32.576	-13.544	1.00113.57	C
ATOM	563	CB	ASN	73	25.291	33.474	-14.065	1.00113.57	C
ATOM	564	CG	ASN	73	23.994	33.076	-13.378	1.00113.57	C
ATOM	565	OD1	ASN	73	23.741	33.466	-12.239	1.00113.57	O
ATOM	566	ND2	ASN	73	23.140	32.291	-14.086	1.00113.57	N
ATOM	567	C	ASN	73	26.347	32.575	-12.057	1.00113.57	C
ATOM	568	O	ASN	73	26.908	33.448	-11.395	1.00113.57	O
ATOM	569	N	LEU	74	25.606	31.608	-11.488	1.00 83.03	N
ATOM	570	CA	LEU	74	25.450	31.623	-10.066	1.00 83.03	C
ATOM	571	CB	LEU	74	24.645	30.446	-9.527	1.00 83.03	C
ATOM	572	CG	LEU	74	24.580	30.452	-7.991	1.00 83.03	C
ATOM	573	CD1	LEU	74	23.908	31.729	-7.463	1.00 83.03	C
ATOM	574	CD2	LEU	74	23.935	29.165	-7.459	1.00 83.03	C
ATOM	575	C	LEU	74	26.768	31.485	-9.397	1.00 83.03	C
ATOM	576	O	LEU	74	27.199	32.361	-8.651	1.00 83.03	O
ATOM	577	N	GLU	75	27.475	30.387	-9.689	1.00137.79	N
ATOM	578	CA	GLU	75	28.708	30.179	-9.004	1.00137.79	C
ATOM	579	CB	GLU	75	29.365	28.837	-9.336	1.00137.79	C
ATOM	580	CG	GLU	75	28.587	27.663	-8.758	1.00137.79	C
ATOM	581	CD	GLU	75	28.709	27.696	-7.239	1.00137.79	C
ATOM	582	OE1	GLU	75	29.089	28.763	-6.687	1.00137.79	O
ATOM	583	OE2	GLU	75	28.418	26.645	-6.606	1.00137.79	O
ATOM	584	C	GLU	75	29.655	31.250	-9.406	1.00137.79	C
ATOM	585	O	GLU	75	30.401	31.766	-8.576	1.00137.79	O



ATOM	586	N	GLU	76	29.637	31.630	-10.697	1.00121.53	N
ATOM	587	CA	GLU	76	30.619	32.572	-11.148	1.00121.53	C
ATOM	588	CB	GLU	76	30.614	32.793	-12.678	1.00121.53	C
ATOM	589	CG	GLU	76	29.287	33.246	-13.290	1.00121.53	C
ATOM	590	CD	GLU	76	29.185	34.760	-13.229	1.00121.53	C
ATOM	591	OE1	GLU	76	30.217	35.438	-13.479	1.00121.53	O
ATOM	592	OE2	GLU	76	28.065	35.258	-12.940	1.00121.53	O
ATOM	593	C	GLU	76	30.496	33.892	-10.448	1.00121.53	C
ATOM	594	O	GLU	76	31.481	34.404	-9.917	1.00121.53	O
ATOM	595	N	ASP	77	29.290	34.479	-10.386	1.00 94.05	N
ATOM	596	CA	ASP	77	29.177	35.748	-9.726	1.00 94.05	C
ATOM	597	CB	ASP	77	27.802	36.417	-9.908	1.00 94.05	C
ATOM	598	CG	ASP	77	27.960	37.916	-9.661	1.00 94.05	C
ATOM	599	OD1	ASP	77	28.531	38.300	-8.607	1.00 94.05	O
ATOM	600	OD2	ASP	77	27.506	38.703	-10.533	1.00 94.05	O
ATOM	601	C	ASP	77	29.399	35.493	-8.275	1.00 94.05	C
ATOM	602	O	ASP	77	29.778	36.384	-7.522	1.00 94.05	O
ATOM	603	N	MET	78	29.138	34.254	-7.829	1.00 64.46	N
ATOM	604	CA	MET	78	29.300	33.959	-6.438	1.00 64.46	C
ATOM	605	CB	MET	78	28.832	32.548	-6.040	1.00 64.46	C
ATOM	606	CG	MET	78	28.778	32.353	-4.522	1.00 64.46	C
ATOM	607	SD	MET	78	27.669	31.028	-3.966	1.00 64.46	S
ATOM	608	CE	MET	78	26.181	32.055	-4.145	1.00 64.46	C
ATOM	609	C	MET	78	30.742	34.144	-6.088	1.00 64.46	C
ATOM	610	O	MET	78	31.057	34.600	-4.990	1.00 64.46	O
ATOM	611	N	THR	79	31.673	33.784	-6.992	1.00112.03	N
ATOM	612	CA	THR	79	33.043	34.044	-6.656	1.00112.03	C
ATOM	613	CB	THR	79	34.040	33.594	-7.680	1.00112.03	C
ATOM	614	OG1	THR	79	33.860	34.308	-8.895	1.00112.03	O
ATOM	615	CG2	THR	79	33.868	32.089	-7.908	1.00112.03	C
ATOM	616	C	THR	79	33.187	35.526	-6.574	1.00112.03	C
ATOM	617	O	THR	79	33.806	36.052	-5.652	1.00112.03	O
ATOM	618	N	ARG	80	32.556	36.234	-7.529	1.00100.28	N
ATOM	619	CA	ARG	80	32.675	37.657	-7.645	1.00100.28	C
ATOM	620	CB	ARG	80	31.822	38.229	-8.796	1.00100.28	C
ATOM	621	CG	ARG	80	32.195	37.664	-10.172	1.00100.28	C
ATOM	622	CD	ARG	80	33.466	38.264	-10.785	1.00100.28	C
ATOM	623	NE	ARG	80	33.130	39.616	-11.318	1.00100.28	N
ATOM	624	CZ	ARG	80	32.847	39.779	-12.645	1.00100.28	C
ATOM	625	NH1	ARG	80	32.912	38.711	-13.494	1.00100.28	N
ATOM	626	NH2	ARG	80	32.506	41.010	-13.125	1.00100.28	N
ATOM	627	C	ARG	80	32.206	38.283	-6.367	1.00100.28	C
ATOM	628	O	ARG	80	32.807	39.242	-5.887	1.00100.28	O
ATOM	629	N	TYR	81	31.121	37.757	-5.770	1.00 70.03	N
ATOM	630	CA	TYR	81	30.619	38.329	-4.555	1.00 70.03	C
ATOM	631	CB	TYR	81	29.414	37.586	-3.942	1.00 70.03	C
ATOM	632	CG	TYR	81	28.199	37.640	-4.807	1.00 70.03	C
ATOM	633	CD1	TYR	81	27.516	38.818	-5.012	1.00 70.03	C
ATOM	634	CD2	TYR	81	27.714	36.486	-5.377	1.00 70.03	C
ATOM	635	CE1	TYR	81	26.384	38.845	-5.795	1.00 70.03	C
ATOM	636	CE2	TYR	81	26.583	36.506	-6.159	1.00 70.03	C
ATOM	637	CZ	TYR	81	25.916	37.688	-6.371	1.00 70.03	C
ATOM	638	OH	TYR	81	24.754	37.708	-7.172	1.00 70.03	O
ATOM	639	C	TYR	81	31.690	38.198	-3.523	1.00 70.03	C
ATOM	640	O	TYR	81	32.014	39.156	-2.824	1.00 70.03	O
ATOM	641	N	ALA	82	32.305	37.005	-3.435	1.00 39.55	N
ATOM	642	CA	ALA	82	33.261	36.761	-2.397	1.00 39.55	C
ATOM	643	CB	ALA	82	33.884	35.357	-2.477	1.00 39.55	C
ATOM	644	C	ALA	82	34.372	37.750	-2.518	1.00 39.55	C
ATOM	645	O	ALA	82	34.785	38.350	-1.527	1.00 39.55	O
ATOM	646	N	TYR	83	34.857	37.988	-3.747	1.00118.40	N
ATOM	647	CA	TYR	83	35.965	38.876	-3.902	1.00118.40	C
ATOM	648	CB	TYR	83	36.465	39.023	-5.357	1.00118.40	C
ATOM	649	CG	TYR	83	36.785	37.667	-5.891	1.00118.40	C
ATOM	650	CD1	TYR	83	37.836	36.934	-5.389	1.00118.40	C
ATOM	651	CD2	TYR	83	36.006	37.111	-6.878	1.00118.40	C
ATOM	652	CE1	TYR	83	38.108	35.677	-5.880	1.00118.40	C
ATOM	653	CE2	TYR	83	36.273	35.857	-7.373	1.00118.40	C
ATOM	654	CZ	TYR	83	37.328	35.136	-6.874	1.00118.40	C
ATOM	655	OH	TYR	83	37.605	33.846	-7.377	1.00118.40	O
ATOM	656	C	TYR	83	35.534	40.236	-3.455	1.00118.40	C
ATOM	657	O	TYR	83	36.325	40.970	-2.869	1.00118.40	O
ATOM	658	N	TYR	84	34.283	40.637	-3.755	1.00107.26	N
ATOM	659	CA	TYR	84	33.932	41.994	-3.444	1.00107.26	C

ATOM	660	CB	TYR	84	32.682	42.555	-4.156	1.00107.26	C
ATOM	661	CG	TYR	84	31.388	42.221	-3.495	1.00107.26	C
ATOM	662	CD1	TYR	84	30.960	42.956	-2.411	1.00107.26	C
ATOM	663	CD2	TYR	84	30.582	41.218	-3.977	1.00107.26	C
ATOM	664	CE1	TYR	84	29.758	42.681	-1.804	1.00107.26	C
ATOM	665	CE2	TYR	84	29.378	40.938	-3.375	1.00107.26	C
ATOM	666	CZ	TYR	84	28.964	41.669	-2.287	1.00107.26	C
ATOM	667	OH	TYR	84	27.728	41.386	-1.669	1.00107.26	O
ATOM	668	C	TYR	84	33.815	42.262	-1.974	1.00107.26	C
ATOM	669	O	TYR	84	34.363	43.250	-1.490	1.00107.26	O
ATOM	670	N	TYR	85	33.120	41.401	-1.203	1.00 70.46	N
ATOM	671	CA	TYR	85	32.995	41.723	0.190	1.00 70.46	C
ATOM	672	CB	TYR	85	32.121	40.772	1.014	1.00 70.46	C
ATOM	673	CG	TYR	85	32.786	39.460	1.242	1.00 70.46	C
ATOM	674	CD1	TYR	85	32.723	38.461	0.300	1.00 70.46	C
ATOM	675	CD2	TYR	85	33.457	39.229	2.421	1.00 70.46	C
ATOM	676	CE1	TYR	85	33.332	37.251	0.530	1.00 70.46	C
ATOM	677	CE2	TYR	85	34.068	38.022	2.657	1.00 70.46	C
ATOM	678	CZ	TYR	85	34.005	37.030	1.708	1.00 70.46	C
ATOM	679	OH	TYR	85	34.629	35.787	1.943	1.00 70.46	O
ATOM	680	C	TYR	85	34.364	41.672	0.752	1.00 70.46	C
ATOM	681	O	TYR	85	34.723	42.449	1.628	1.00 70.46	O
ATOM	682	N	SER	86	35.165	40.723	0.257	1.00100.28	N
ATOM	683	CA	SER	86	36.500	40.566	0.728	1.00100.28	C
ATOM	684	CB	SER	86	37.245	39.492	-0.077	1.00100.28	C
ATOM	685	OG	SER	86	38.570	39.350	0.403	1.00100.28	O
ATOM	686	C	SER	86	37.256	41.849	0.571	1.00100.28	C
ATOM	687	O	SER	86	37.525	42.538	1.553	1.00100.28	O
ATOM	688	N	GLY	87	37.534	42.255	-0.685	1.00 37.91	N
ATOM	689	CA	GLY	87	38.416	43.361	-0.926	1.00 37.91	C
ATOM	690	C	GLY	87	37.916	44.584	-0.232	1.00 37.91	C
ATOM	691	O	GLY	87	38.694	45.294	0.403	1.00 37.91	O
ATOM	692	N	ILE	88	36.613	44.892	-0.346	1.00113.97	N
ATOM	693	CA	ILE	88	36.147	46.078	0.309	1.00113.97	C
ATOM	694	CB	ILE	88	34.723	46.420	-0.017	1.00113.97	C
ATOM	695	CG1	ILE	88	34.572	46.736	-1.515	1.00113.97	C
ATOM	696	CG2	ILE	88	34.286	47.565	0.920	1.00113.97	C
ATOM	697	CD1	ILE	88	35.390	47.947	-1.959	1.00113.97	C
ATOM	698	C	ILE	88	36.189	45.897	1.791	1.00113.97	C
ATOM	699	O	ILE	88	36.826	46.660	2.513	1.00113.97	O
ATOM	700	N	GLY	89	35.575	44.810	2.277	1.00 42.90	N
ATOM	701	CA	GLY	89	35.363	44.649	3.682	1.00 42.90	C
ATOM	702	C	GLY	89	36.648	44.664	4.425	1.00 42.90	C
ATOM	703	O	GLY	89	36.802	45.421	5.381	1.00 42.90	O
ATOM	704	N	ALA	90	37.621	43.858	3.983	1.00 36.35	N
ATOM	705	CA	ALA	90	38.869	43.831	4.674	1.00 36.35	C
ATOM	706	CB	ALA	90	39.885	42.889	4.013	1.00 36.35	C
ATOM	707	C	ALA	90	39.393	45.217	4.566	1.00 36.35	C
ATOM	708	O	ALA	90	39.915	45.781	5.527	1.00 36.35	O
ATOM	709	N	GLY	91	39.179	45.829	3.388	1.00 49.29	N
ATOM	710	CA	GLY	91	39.737	47.121	3.163	1.00 49.29	C
ATOM	711	C	GLY	91	39.249	48.088	4.198	1.00 49.29	C
ATOM	712	O	GLY	91	40.048	48.713	4.889	1.00 49.29	O
ATOM	713	N	VAL	92	37.927	48.179	4.398	1.00133.50	N
ATOM	714	CA	VAL	92	37.382	49.158	5.294	1.00133.50	C
ATOM	715	CB	VAL	92	35.905	48.997	5.445	1.00133.50	C
ATOM	716	CG1	VAL	92	35.391	50.070	6.405	1.00133.50	C
ATOM	717	CG2	VAL	92	35.262	49.006	4.055	1.00133.50	C
ATOM	718	C	VAL	92	37.943	48.961	6.661	1.00133.50	C
ATOM	719	O	VAL	92	38.457	49.910	7.250	1.00133.50	O
ATOM	720	N	LEU	93	37.921	47.713	7.175	1.00170.33	N
ATOM	721	CA	LEU	93	38.330	47.488	8.537	1.00170.33	C
ATOM	722	CB	LEU	93	38.424	46.014	8.933	1.00170.33	C
ATOM	723	CG	LEU	93	37.063	45.413	9.247	1.00170.33	C
ATOM	724	CD1	LEU	93	36.494	46.066	10.518	1.00170.33	C
ATOM	725	CD2	LEU	93	36.137	45.507	8.029	1.00170.33	C
ATOM	726	C	LEU	93	39.704	48.012	8.748	1.00170.33	C
ATOM	727	O	LEU	93	39.948	48.735	9.713	1.00170.33	O
ATOM	728	N	VAL	94	40.639	47.687	7.843	1.00105.21	N
ATOM	729	CA	VAL	94	41.976	48.127	8.091	1.00105.21	C
ATOM	730	CB	VAL	94	42.978	47.593	7.103	1.00105.21	C
ATOM	731	CG1	VAL	94	43.019	46.064	7.259	1.00105.21	C
ATOM	732	CG2	VAL	94	42.624	48.057	5.679	1.00105.21	C
ATOM	733	C	VAL	94	42.049	49.629	8.081	1.00105.21	C

ATOM	734	O	VAL	94	42.578	50.236	9.011	1.00105.21	O
ATOM	735	N	ALA	95	41.496	50.261	7.029	1.00 54.74	N
ATOM	736	CA	ALA	95	41.577	51.682	6.817	1.00 54.74	C
ATOM	737	CB	ALA	95	41.051	52.097	5.432	1.00 54.74	C
ATOM	738	C	ALA	95	40.820	52.486	7.829	1.00 54.74	C
ATOM	739	O	ALA	95	41.265	53.565	8.216	1.00 54.74	O
ATOM	740	N	ALA	96	39.627	52.019	8.244	1.00 49.25	N
ATOM	741	CA	ALA	96	38.829	52.794	9.151	1.00 49.25	C
ATOM	742	CB	ALA	96	37.479	52.138	9.487	1.00 49.25	C
ATOM	743	C	ALA	96	39.581	52.936	10.425	1.00 49.25	C
ATOM	744	O	ALA	96	39.762	54.048	10.923	1.00 49.25	O
ATOM	745	N	TYR	97	40.123	51.807	10.922	1.00 64.41	N
ATOM	746	CA	TYR	97	40.819	51.816	12.170	1.00 64.41	C
ATOM	747	CB	TYR	97	41.444	50.464	12.550	1.00 64.41	C
ATOM	748	CG	TYR	97	42.294	50.705	13.752	1.00 64.41	C
ATOM	749	CD1	TYR	97	41.743	50.775	15.011	1.00 64.41	C
ATOM	750	CD2	TYR	97	43.654	50.864	13.613	1.00 64.41	C
ATOM	751	CE1	TYR	97	42.538	50.996	16.112	1.00 64.41	C
ATOM	752	CE2	TYR	97	44.454	51.085	14.709	1.00 64.41	C
ATOM	753	CZ	TYR	97	43.895	51.151	15.962	1.00 64.41	C
ATOM	754	OH	TYR	97	44.716	51.378	17.086	1.00 64.41	O
ATOM	755	C	TYR	97	41.931	52.792	12.031	1.00 64.41	C
ATOM	756	O	TYR	97	42.275	53.491	12.982	1.00 64.41	O
ATOM	757	N	ILE	98	42.537	52.849	10.833	1.00103.90	N
ATOM	758	CA	ILE	98	43.638	53.742	10.632	1.00103.90	C
ATOM	759	CB	ILE	98	44.280	53.581	9.286	1.00103.90	C
ATOM	760	CG1	ILE	98	44.827	52.149	9.135	1.00103.90	C
ATOM	761	CG2	ILE	98	45.352	54.675	9.144	1.00103.90	C
ATOM	762	CD1	ILE	98	45.825	51.756	10.225	1.00103.90	C
ATOM	763	C	ILE	98	43.199	55.178	10.786	1.00103.90	C
ATOM	764	O	ILE	98	43.832	55.937	11.515	1.00103.90	O
ATOM	765	N	GLN	99	42.071	55.579	10.162	1.00173.19	N
ATOM	766	CA	GLN	99	41.612	56.948	10.181	1.00173.19	C
ATOM	767	CB	GLN	99	40.212	57.098	9.555	1.00173.19	C
ATOM	768	CG	GLN	99	40.063	56.565	8.131	1.00173.19	C
ATOM	769	CD	GLN	99	38.593	56.673	7.729	1.00173.19	C
ATOM	770	OE1	GLN	99	38.200	56.243	6.646	1.00173.19	O
ATOM	771	NE2	GLN	99	37.753	57.260	8.623	1.00173.19	N
ATOM	772	C	GLN	99	41.394	57.376	11.604	1.00173.19	C
ATOM	773	O	GLN	99	41.617	58.527	11.966	1.00173.19	O
ATOM	774	N	VAL	100	40.871	56.475	12.442	1.00 70.74	N
ATOM	775	CA	VAL	100	40.606	56.791	13.818	1.00 70.74	C
ATOM	776	CB	VAL	100	39.838	55.697	14.503	1.00 70.74	C
ATOM	777	CG1	VAL	100	39.602	56.099	15.969	1.00 70.74	C
ATOM	778	CG2	VAL	100	38.551	55.431	13.701	1.00 70.74	C
ATOM	779	C	VAL	100	41.902	56.989	14.550	1.00 70.74	C
ATOM	780	O	VAL	100	41.999	57.815	15.459	1.00 70.74	O
ATOM	781	N	SER	101	42.936	56.209	14.183	1.00 49.21	N
ATOM	782	CA	SER	101	44.220	56.303	14.814	1.00 49.21	C
ATOM	783	CB	SER	101	45.244	55.332	14.206	1.00 49.21	C
ATOM	784	OG	SER	101	44.796	53.995	14.366	1.00 49.21	O
ATOM	785	C	SER	101	44.722	57.682	14.540	1.00 49.21	C
ATOM	786	O	SER	101	45.524	58.237	15.293	1.00 49.21	O
ATOM	787	N	PHE	102	44.262	58.253	13.412	1.00178.73	N
ATOM	788	CA	PHE	102	44.615	59.588	13.043	1.00178.73	C
ATOM	789	CB	PHE	102	43.864	60.053	11.777	1.00178.73	C
ATOM	790	CG	PHE	102	44.162	61.448	11.311	1.00178.73	C
ATOM	791	CD1	PHE	102	43.979	62.551	12.118	1.00178.73	C
ATOM	792	CD2	PHE	102	44.646	61.655	10.042	1.00178.73	C
ATOM	793	CE1	PHE	102	44.241	63.825	11.677	1.00178.73	C
ATOM	794	CE2	PHE	102	44.909	62.927	9.589	1.00178.73	C
ATOM	795	CZ	PHE	102	44.703	64.015	10.400	1.00178.73	C
ATOM	796	C	PHE	102	44.098	60.447	14.137	1.00178.73	C
ATOM	797	O	PHE	102	44.869	61.173	14.763	1.00178.73	O
ATOM	798	N	TRP	103	42.787	60.299	14.441	1.00149.77	N
ATOM	799	CA	TRP	103	42.142	61.227	15.321	1.00149.77	C
ATOM	800	CB	TRP	103	40.676	60.850	15.679	1.00149.77	C
ATOM	801	CG	TRP	103	39.964	61.761	16.680	1.00149.77	C
ATOM	802	CD2	TRP	103	38.608	62.222	16.544	1.00149.77	C
ATOM	803	CD1	TRP	103	40.436	62.331	17.833	1.00149.77	C
ATOM	804	NE1	TRP	103	39.466	63.102	18.417	1.00149.77	N
ATOM	805	CE2	TRP	103	38.335	63.053	17.633	1.00149.77	C
ATOM	806	CE3	TRP	103	37.666	61.992	15.577	1.00149.77	C
ATOM	807	CZ2	TRP	103	37.120	63.659	17.775	1.00149.77	C

ATOM	808	CZ3	TRP	103	36.438	62.600	15.730	1.00149.77	C
ATOM	809	CH2	TRP	103	36.170	63.419	16.807	1.00149.77	C
ATOM	810	C	TRP	103	42.901	61.376	16.597	1.00149.77	C
ATOM	811	O	TRP	103	43.530	62.408	16.816	1.00149.77	O
ATOM	812	N	CYS	104	42.938	60.338	17.436	1.00102.37	N
ATOM	813	CA	CYS	104	43.514	60.533	18.729	1.00102.37	C
ATOM	814	CB	CYS	104	43.141	59.432	19.727	1.00102.37	C
ATOM	815	SG	CYS	104	41.367	59.423	20.129	1.00102.37	S
ATOM	816	C	CYS	104	44.991	60.703	18.751	1.00102.37	C
ATOM	817	O	CYS	104	45.450	61.548	19.512	1.00102.37	O
ATOM	818	N	LEU	105	45.778	59.945	17.952	1.00163.03	N
ATOM	819	CA	LEU	105	47.202	60.089	18.097	1.00163.03	C
ATOM	820	CB	LEU	105	48.048	59.248	17.127	1.00163.03	C
ATOM	821	CG	LEU	105	48.266	57.805	17.601	1.00163.03	C
ATOM	822	CD1	LEU	105	49.117	57.011	16.598	1.00163.03	C
ATOM	823	CD2	LEU	105	48.880	57.805	19.011	1.00163.03	C
ATOM	824	C	LEU	105	47.546	61.512	17.854	1.00163.03	C
ATOM	825	O	LEU	105	48.208	62.146	18.677	1.00163.03	O
ATOM	826	N	ALA	106	47.010	62.073	16.764	1.00105.35	N
ATOM	827	CA	ALA	106	47.359	63.430	16.516	1.00105.35	C
ATOM	828	CB	ALA	106	46.800	63.935	15.175	1.00105.35	C
ATOM	829	C	ALA	106	46.848	64.351	17.584	1.00105.35	C
ATOM	830	O	ALA	106	47.615	64.831	18.414	1.00105.35	O
ATOM	831	N	ALA	107	45.517	64.458	17.725	1.00 77.40	N
ATOM	832	CA	ALA	107	44.927	65.448	18.585	1.00 77.40	C
ATOM	833	CB	ALA	107	43.393	65.358	18.628	1.00 77.40	C
ATOM	834	C	ALA	107	45.423	65.244	19.974	1.00 77.40	C
ATOM	835	O	ALA	107	45.694	66.198	20.700	1.00 77.40	O
ATOM	836	N	GLY	108	45.597	63.979	20.373	1.00 67.25	N
ATOM	837	CA	GLY	108	45.984	63.735	21.724	1.00 67.25	C
ATOM	838	C	GLY	108	47.289	64.414	22.030	1.00 67.25	C
ATOM	839	O	GLY	108	47.347	65.285	22.897	1.00 67.25	O
ATOM	840	N	ARG	109	48.358	64.116	21.270	1.00148.35	N
ATOM	841	CA	ARG	109	49.639	64.672	21.615	1.00148.35	C
ATOM	842	CB	ARG	109	50.771	64.161	20.715	1.00148.35	C
ATOM	843	CG	ARG	109	50.962	62.645	20.810	1.00148.35	C
ATOM	844	CD	ARG	109	52.272	62.149	20.199	1.00148.35	C
ATOM	845	NE	ARG	109	53.346	62.420	21.195	1.00148.35	N
ATOM	846	CZ	ARG	109	53.703	61.475	22.115	1.00148.35	C
ATOM	847	NH1	ARG	109	53.143	60.231	22.080	1.00148.35	N
ATOM	848	NH2	ARG	109	54.632	61.777	23.067	1.00148.35	N
ATOM	849	C	ARG	109	49.586	66.153	21.469	1.00148.35	C
ATOM	850	O	ARG	109	50.138	66.898	22.280	1.00148.35	O
ATOM	851	N	GLN	110	48.895	66.625	20.421	1.00133.79	N
ATOM	852	CA	GLN	110	48.889	68.037	20.192	1.00133.79	C
ATOM	853	CB	GLN	110	48.090	68.481	18.955	1.00133.79	C
ATOM	854	CG	GLN	110	48.834	68.285	17.632	1.00133.79	C
ATOM	855	CD	GLN	110	48.350	67.025	16.934	1.00133.79	C
ATOM	856	OE1	GLN	110	49.110	66.079	16.741	1.00133.79	O
ATOM	857	NE2	GLN	110	47.053	67.021	16.522	1.00133.79	N
ATOM	858	C	GLN	110	48.298	68.747	21.368	1.00133.79	C
ATOM	859	O	GLN	110	48.796	69.796	21.776	1.00133.79	O
ATOM	860	N	ILE	111	47.201	68.218	21.933	1.00118.89	N
ATOM	861	CA	ILE	111	46.598	68.899	23.039	1.00118.89	C
ATOM	862	CB	ILE	111	45.178	68.514	23.335	1.00118.89	C
ATOM	863	CG1	ILE	111	44.302	69.102	22.224	1.00118.89	C
ATOM	864	CG2	ILE	111	44.777	69.017	24.735	1.00118.89	C
ATOM	865	CD1	ILE	111	42.827	68.792	22.397	1.00118.89	C
ATOM	866	C	ILE	111	47.423	68.844	24.278	1.00118.89	C
ATOM	867	O	ILE	111	47.473	69.832	24.998	1.00118.89	O
ATOM	868	N	HIS	112	48.104	67.720	24.563	1.00100.89	N
ATOM	869	CA	HIS	112	48.860	67.591	25.779	1.00100.89	C
ATOM	870	ND1	HIS	112	49.558	65.449	28.165	1.00100.89	N
ATOM	871	CG	HIS	112	50.279	65.885	27.077	1.00100.89	C
ATOM	872	CB	HIS	112	49.664	66.281	25.770	1.00100.89	C
ATOM	873	NE2	HIS	112	51.704	65.322	28.731	1.00100.89	N
ATOM	874	CD2	HIS	112	51.587	65.805	27.440	1.00100.89	C
ATOM	875	CE1	HIS	112	50.459	65.124	29.126	1.00100.89	C
ATOM	876	C	HIS	112	49.807	68.749	25.839	1.00100.89	C
ATOM	877	O	HIS	112	49.919	69.433	26.858	1.00100.89	O
ATOM	878	N	LYS	113	50.464	69.038	24.706	1.00136.23	N
ATOM	879	CA	LYS	113	51.368	70.144	24.664	1.00136.23	C
ATOM	880	CB	LYS	113	52.084	70.247	23.311	1.00136.23	C
ATOM	881	CG	LYS	113	53.205	69.218	23.183	1.00136.23	C

ATOM	882	CD	LYS	113	53.656	68.942	21.751	1.00136.23	C
ATOM	883	CE	LYS	113	54.989	68.194	21.678	1.00136.23	C
ATOM	884	NZ	LYS	113	55.065	67.180	22.753	1.00136.23	N
ATOM	885	C	LYS	113	50.614	71.413	24.900	1.00136.23	C
ATOM	886	O	LYS	113	51.027	72.252	25.704	1.00136.23	O
ATOM	887	N	ILE	114	49.455	71.575	24.236	1.00179.18	N
ATOM	888	CA	ILE	114	48.785	72.831	24.381	1.00179.18	C
ATOM	889	CB	ILE	114	47.563	73.026	23.512	1.00179.18	C
ATOM	890	CG1	ILE	114	47.172	74.510	23.529	1.00179.18	C
ATOM	891	CG2	ILE	114	46.407	72.137	23.992	1.00179.18	C
ATOM	892	CD1	ILE	114	48.218	75.429	22.902	1.00179.18	C
ATOM	893	C	ILE	114	48.395	73.007	25.810	1.00179.18	C
ATOM	894	O	ILE	114	48.700	74.036	26.409	1.00179.18	O
ATOM	895	N	ARG	115	47.826	71.954	26.422	1.00146.80	N
ATOM	896	CA	ARG	115	47.261	72.046	27.726	1.00146.80	C
ATOM	897	CB	ARG	115	46.803	70.699	28.317	1.00146.80	C
ATOM	898	CG	ARG	115	45.512	70.130	27.729	1.00146.80	C
ATOM	899	CD	ARG	115	44.963	68.959	28.548	1.00146.80	C
ATOM	900	NE	ARG	115	43.710	68.478	27.902	1.00146.80	N
ATOM	901	CZ	ARG	115	42.522	69.074	28.208	1.00146.80	C
ATOM	902	NH1	ARG	115	42.494	70.146	29.052	1.00146.80	N
ATOM	903	NH2	ARG	115	41.360	68.603	27.666	1.00146.80	N
ATOM	904	C	ARG	115	48.255	72.601	28.690	1.00146.80	C
ATOM	905	O	ARG	115	47.972	73.605	29.339	1.00146.80	O
ATOM	906	N	LYS	116	49.469	72.030	28.762	1.00150.62	N
ATOM	907	CA	LYS	116	50.383	72.475	29.779	1.00150.62	C
ATOM	908	CB	LYS	116	51.669	71.642	29.864	1.00150.62	C
ATOM	909	CG	LYS	116	52.606	72.153	30.958	1.00150.62	C
ATOM	910	CD	LYS	116	53.613	71.117	31.455	1.00150.62	C
ATOM	911	CE	LYS	116	54.117	70.159	30.378	1.00150.62	C
ATOM	912	NZ	LYS	116	54.988	69.136	30.999	1.00150.62	N
ATOM	913	C	LYS	116	50.758	73.906	29.591	1.00150.62	C
ATOM	914	O	LYS	116	50.857	74.657	30.564	1.00150.62	O
ATOM	915	N	GLN	117	50.967	74.333	28.334	1.00111.03	N
ATOM	916	CA	GLN	117	51.387	75.690	28.149	1.00111.03	C
ATOM	917	CB	GLN	117	51.599	76.064	26.668	1.00111.03	C
ATOM	918	CG	GLN	117	52.828	75.421	26.023	1.00111.03	C
ATOM	919	CD	GLN	117	54.063	76.181	26.491	1.00111.03	C
ATOM	920	OE1	GLN	117	55.097	76.168	25.826	1.00111.03	O
ATOM	921	NE2	GLN	117	53.958	76.866	27.662	1.00111.03	N
ATOM	922	C	GLN	117	50.317	76.584	28.690	1.00111.03	C
ATOM	923	O	GLN	117	50.595	77.534	29.422	1.00111.03	O
ATOM	924	N	PHE	118	49.050	76.252	28.388	1.00171.82	N
ATOM	925	CA	PHE	118	47.938	77.084	28.745	1.00171.82	C
ATOM	926	CB	PHE	118	46.579	76.471	28.348	1.00171.82	C
ATOM	927	CG	PHE	118	45.558	77.558	28.244	1.00171.82	C
ATOM	928	CD1	PHE	118	45.574	78.640	29.091	1.00171.82	C
ATOM	929	CD2	PHE	118	44.619	77.527	27.238	1.00171.82	C
ATOM	930	CE1	PHE	118	44.640	79.642	28.965	1.00171.82	C
ATOM	931	CE2	PHE	118	43.680	78.524	27.108	1.00171.82	C
ATOM	932	CZ	PHE	118	43.687	79.585	27.979	1.00171.82	C
ATOM	933	C	PHE	118	47.870	77.172	30.243	1.00171.82	C
ATOM	934	O	PHE	118	47.692	78.257	30.794	1.00171.82	O
ATOM	935	N	PHE	119	48.030	76.029	30.950	1.00183.45	N
ATOM	936	CA	PHE	119	47.824	76.033	32.376	1.00183.45	C
ATOM	937	CB	PHE	119	48.139	74.701	33.086	1.00183.45	C
ATOM	938	CG	PHE	119	47.109	73.664	32.785	1.00183.45	C
ATOM	939	CD1	PHE	119	45.906	73.645	33.449	1.00183.45	C
ATOM	940	CD2	PHE	119	47.335	72.703	31.834	1.00183.45	C
ATOM	941	CE1	PHE	119	44.963	72.686	33.173	1.00183.45	C
ATOM	942	CE2	PHE	119	46.396	71.741	31.550	1.00183.45	C
ATOM	943	CZ	PHE	119	45.201	71.728	32.223	1.00183.45	C
ATOM	944	C	PHE	119	48.716	77.048	33.038	1.00183.45	C
ATOM	945	O	PHE	119	48.234	77.932	33.745	1.00183.45	O
ATOM	946	N	HIS	120	50.039	76.967	32.802	1.00106.49	N
ATOM	947	CA	HIS	120	51.023	77.857	33.374	1.00106.49	C
ATOM	948	ND1	HIS	120	54.348	78.212	34.401	1.00106.49	N
ATOM	949	CG	HIS	120	53.535	78.404	33.309	1.00106.49	C
ATOM	950	CB	HIS	120	52.433	77.477	32.889	1.00106.49	C
ATOM	951	NE2	HIS	120	55.037	80.082	33.412	1.00106.49	N
ATOM	952	CD2	HIS	120	53.966	79.550	32.717	1.00106.49	C
ATOM	953	CE1	HIS	120	55.230	79.245	34.416	1.00106.49	C
ATOM	954	C	HIS	120	50.743	79.234	32.884	1.00106.49	C
ATOM	955	O	HIS	120	50.944	80.219	33.597	1.00106.49	O

ATOM	956	N	ALA	121	50.295	79.333	31.623	1.00	95.22	N
ATOM	957	CA	ALA	121	50.072	80.643	31.092	1.00	95.22	C
ATOM	958	CB	ALA	121	49.584	80.616	29.634	1.00	95.22	C
ATOM	959	C	ALA	121	49.015	81.328	31.889	1.00	95.22	C
ATOM	960	O	ALA	121	49.257	82.432	32.380	1.00	95.22	O
ATOM	961	N	ILE	122	47.865	80.648	32.120	1.00	120.80	N
ATOM	962	CA	ILE	122	46.773	81.301	32.788	1.00	120.80	C
ATOM	963	CB	ILE	122	45.611	80.414	33.132	1.00	120.80	C
ATOM	964	CG1	ILE	122	44.949	79.814	31.886	1.00	120.80	C
ATOM	965	CG2	ILE	122	44.649	81.262	33.982	1.00	120.80	C
ATOM	966	CD1	ILE	122	43.901	78.747	32.203	1.00	120.80	C
ATOM	967	C	ILE	122	47.275	81.755	34.121	1.00	120.80	C
ATOM	968	O	ILE	122	47.106	82.909	34.494	1.00	120.80	O
ATOM	969	N	MET	123	48.013	80.881	34.819	1.00	133.09	N
ATOM	970	CA	MET	123	48.470	81.112	36.159	1.00	133.09	C
ATOM	971	CB	MET	123	49.238	79.908	36.733	1.00	133.09	C
ATOM	972	CG	MET	123	48.352	78.681	36.952	1.00	133.09	C
ATOM	973	SD	MET	123	47.026	78.945	38.167	1.00	133.09	S
ATOM	974	CE	MET	123	48.124	78.975	39.614	1.00	133.09	C
ATOM	975	C	MET	123	49.368	82.307	36.247	1.00	133.09	C
ATOM	976	O	MET	123	49.570	82.831	37.338	1.00	133.09	O
ATOM	977	N	ARG	124	50.093	82.637	35.169	1.00	224.29	N
ATOM	978	CA	ARG	124	50.936	83.811	35.114	1.00	224.29	C
ATOM	979	CB	ARG	124	52.149	83.637	34.183	1.00	224.29	C
ATOM	980	CG	ARG	124	53.198	82.664	34.741	1.00	224.29	C
ATOM	981	CD	ARG	124	54.117	83.274	35.810	1.00	224.29	C
ATOM	982	NE	ARG	124	54.940	82.175	36.398	1.00	224.29	N
ATOM	983	CZ	ARG	124	55.832	82.433	37.403	1.00	224.29	C
ATOM	984	NH1	ARG	124	56.011	83.708	37.854	1.00	224.29	N
ATOM	985	NH2	ARG	124	56.534	81.407	37.968	1.00	224.29	N
ATOM	986	C	ARG	124	50.232	85.083	34.727	1.00	224.29	C
ATOM	987	O	ARG	124	50.724	86.172	35.017	1.00	224.29	O
ATOM	988	N	GLN	125	49.077	84.982	34.043	1.00	146.64	N
ATOM	989	CA	GLN	125	48.395	86.107	33.447	1.00	146.64	C
ATOM	990	CB	GLN	125	47.035	85.722	32.815	1.00	146.64	C
ATOM	991	CG	GLN	125	46.345	86.878	32.073	1.00	146.64	C
ATOM	992	CD	GLN	125	44.969	86.438	31.570	1.00	146.64	C
ATOM	993	OE1	GLN	125	43.972	86.526	32.286	1.00	146.64	O
ATOM	994	NE2	GLN	125	44.900	85.964	30.297	1.00	146.64	N
ATOM	995	C	GLN	125	48.130	87.126	34.515	1.00	146.64	C
ATOM	996	O	GLN	125	47.973	88.311	34.221	1.00	146.64	O
ATOM	997	N	GLU	126	47.998	86.675	35.776	1.00	302.19	N
ATOM	998	CA	GLU	126	47.781	87.566	36.869	1.00	302.19	C
ATOM	999	CB	GLU	126	48.974	88.475	37.217	1.00	302.19	C
ATOM	1000	CG	GLU	126	49.941	87.830	38.221	1.00	302.19	C
ATOM	1001	CD	GLU	126	50.284	86.410	37.783	1.00	302.19	C
ATOM	1002	OE1	GLU	126	49.370	85.541	37.801	1.00	302.19	O
ATOM	1003	OE2	GLU	126	51.474	86.174	37.441	1.00	302.19	O
ATOM	1004	C	GLU	126	46.516	88.338	36.713	1.00	302.19	C
ATOM	1005	O	GLU	126	45.470	87.828	36.328	1.00	302.19	O
ATOM	1006	N	ILE	127	46.620	89.636	36.972	1.00	263.50	N
ATOM	1007	CA	ILE	127	45.553	90.568	37.085	1.00	263.50	C
ATOM	1008	CB	ILE	127	46.168	91.921	37.197	1.00	263.50	C
ATOM	1009	CG1	ILE	127	45.231	92.987	37.719	1.00	263.50	C
ATOM	1010	CG2	ILE	127	46.730	92.304	35.827	1.00	263.50	C
ATOM	1011	CD1	ILE	127	46.038	94.271	37.791	1.00	263.50	C
ATOM	1012	C	ILE	127	44.619	90.590	35.905	1.00	263.50	C
ATOM	1013	O	ILE	127	43.456	90.958	36.065	1.00	263.50	O
ATOM	1014	N	GLY	128	45.103	90.301	34.685	1.00	82.00	N
ATOM	1015	CA	GLY	128	44.272	90.326	33.507	1.00	82.00	C
ATOM	1016	C	GLY	128	43.199	89.299	33.639	1.00	82.00	C
ATOM	1017	O	GLY	128	42.121	89.401	33.055	1.00	82.00	O
ATOM	1018	N	TRP	129	43.524	88.248	34.391	1.00	196.89	N
ATOM	1019	CA	TRP	129	42.695	87.117	34.674	1.00	196.89	C
ATOM	1020	CB	TRP	129	43.526	86.100	35.485	1.00	196.89	C
ATOM	1021	CG	TRP	129	42.892	84.937	36.205	1.00	196.89	C
ATOM	1022	CD2	TRP	129	43.626	84.239	37.223	1.00	196.89	C
ATOM	1023	CD1	TRP	129	41.713	84.274	36.049	1.00	196.89	C
ATOM	1024	NE1	TRP	129	41.652	83.218	36.933	1.00	196.89	N
ATOM	1025	CE2	TRP	129	42.828	83.182	37.653	1.00	196.89	C
ATOM	1026	CE3	TRP	129	44.870	84.462	37.741	1.00	196.89	C
ATOM	1027	CZ2	TRP	129	43.266	82.324	38.623	1.00	196.89	C
ATOM	1028	CZ3	TRP	129	45.310	83.603	38.722	1.00	196.89	C
ATOM	1029	CH2	TRP	129	44.519	82.557	39.151	1.00	196.89	C

ATOM	1030	C	TRP	129	41.480	87.595	35.377	1.00196.89	C
ATOM	1031	O	TRP	129	40.490	86.877	35.465	1.00196.89	O
ATOM	1032	N	PHE	130	41.609	88.719	36.089	1.00150.74	N
ATOM	1033	CA	PHE	130	40.512	89.454	36.634	1.00150.74	C
ATOM	1034	CB	PHE	130	41.004	90.240	37.862	1.00150.74	C
ATOM	1035	CG	PHE	130	39.878	90.546	38.783	1.00150.74	C
ATOM	1036	CD1	PHE	130	39.479	89.597	39.698	1.00150.74	C
ATOM	1037	CD2	PHE	130	39.243	91.764	38.759	1.00150.74	C
ATOM	1038	CE1	PHE	130	38.450	89.849	40.571	1.00150.74	C
ATOM	1039	CE2	PHE	130	38.210	92.022	39.630	1.00150.74	C
ATOM	1040	CZ	PHE	130	37.813	91.066	40.535	1.00150.74	C
ATOM	1041	C	PHE	130	40.061	90.453	35.584	1.00150.74	C
ATOM	1042	O	PHE	130	38.878	90.754	35.445	1.00150.74	O
ATOM	1043	N	ASP	131	41.034	90.995	34.811	1.00129.65	N
ATOM	1044	CA	ASP	131	40.868	92.084	33.874	1.00129.65	C
ATOM	1045	CB	ASP	131	42.173	92.402	33.125	1.00129.65	C
ATOM	1046	CG	ASP	131	43.164	92.968	34.131	1.00129.65	C
ATOM	1047	OD1	ASP	131	42.734	93.259	35.275	1.00129.65	O
ATOM	1048	OD2	ASP	131	44.363	93.118	33.770	1.00129.65	O
ATOM	1049	C	ASP	131	39.848	91.797	32.847	1.00129.65	C
ATOM	1050	O	ASP	131	38.923	92.574	32.615	1.00129.65	O
ATOM	1051	N	VAL	132	39.983	90.656	32.191	1.00123.85	N
ATOM	1052	CA	VAL	132	39.001	90.363	31.218	1.00123.85	C
ATOM	1053	CB	VAL	132	39.551	90.293	29.826	1.00123.85	C
ATOM	1054	CG1	VAL	132	40.075	91.687	29.441	1.00123.85	C
ATOM	1055	CG2	VAL	132	40.631	89.201	29.785	1.00123.85	C
ATOM	1056	C	VAL	132	38.609	89.009	31.615	1.00123.85	C
ATOM	1057	O	VAL	132	39.053	88.511	32.647	1.00123.85	O
ATOM	1058	N	HIS	133	37.702	88.418	30.847	1.00342.70	N
ATOM	1059	CA	HIS	133	37.351	87.065	31.098	1.00342.70	C
ATOM	1060	ND1	HIS	133	39.449	85.529	29.139	1.00342.70	N
ATOM	1061	CG	HIS	133	39.618	86.018	30.415	1.00342.70	C
ATOM	1062	CB	HIS	133	38.525	86.117	31.442	1.00342.70	C
ATOM	1063	NE2	HIS	133	41.605	86.037	29.340	1.00342.70	N
ATOM	1064	CD2	HIS	133	40.944	86.322	30.520	1.00342.70	C
ATOM	1065	CE1	HIS	133	40.668	85.563	28.540	1.00342.70	C
ATOM	1066	C	HIS	133	36.351	86.950	32.205	1.00342.70	C
ATOM	1067	O	HIS	133	36.548	87.438	33.317	1.00342.70	O
ATOM	1068	N	ASP	134	35.246	86.240	31.907	1.00127.41	N
ATOM	1069	CA	ASP	134	34.205	85.966	32.851	1.00127.41	C
ATOM	1070	CB	ASP	134	33.026	85.211	32.215	1.00127.41	C
ATOM	1071	CG	ASP	134	32.328	86.174	31.259	1.00127.41	C
ATOM	1072	OD1	ASP	134	31.821	87.224	31.736	1.00127.41	O
ATOM	1073	OD2	ASP	134	32.291	85.870	30.036	1.00127.41	O
ATOM	1074	C	ASP	134	34.835	85.098	33.892	1.00127.41	C
ATOM	1075	O	ASP	134	34.360	84.991	35.021	1.00127.41	O
ATOM	1076	N	VAL	135	35.915	84.409	33.484	1.00173.43	N
ATOM	1077	CA	VAL	135	36.716	83.542	34.303	1.00173.43	C
ATOM	1078	CB	VAL	135	36.939	84.101	35.679	1.00173.43	C
ATOM	1079	CG1	VAL	135	37.705	83.060	36.509	1.00173.43	C
ATOM	1080	CG2	VAL	135	37.652	85.459	35.560	1.00173.43	C
ATOM	1081	C	VAL	135	35.950	82.267	34.461	1.00173.43	C
ATOM	1082	O	VAL	135	36.544	81.188	34.496	1.00173.43	O
ATOM	1083	N	GLY	136	34.605	82.364	34.557	1.00 79.85	N
ATOM	1084	CA	GLY	136	33.779	81.194	34.551	1.00 79.85	C
ATOM	1085	C	GLY	136	33.811	80.756	33.136	1.00 79.85	C
ATOM	1086	O	GLY	136	33.998	79.589	32.803	1.00 79.85	O
ATOM	1087	N	GLU	137	33.671	81.771	32.270	1.00160.47	N
ATOM	1088	CA	GLU	137	33.700	81.660	30.853	1.00160.47	C
ATOM	1089	CB	GLU	137	33.606	83.073	30.241	1.00160.47	C
ATOM	1090	CG	GLU	137	34.360	83.291	28.928	1.00160.47	C
ATOM	1091	CD	GLU	137	33.759	82.413	27.855	1.00160.47	C
ATOM	1092	OE1	GLU	137	32.962	81.513	28.223	1.00160.47	O
ATOM	1093	OE2	GLU	137	34.093	82.622	26.659	1.00160.47	O
ATOM	1094	C	GLU	137	35.026	81.069	30.484	1.00160.47	C
ATOM	1095	O	GLU	137	35.095	80.237	29.583	1.00160.47	O
ATOM	1096	N	LEU	138	36.101	81.503	31.179	1.00193.50	N
ATOM	1097	CA	LEU	138	37.483	81.151	30.915	1.00193.50	C
ATOM	1098	CB	LEU	138	38.468	82.021	31.745	1.00193.50	C
ATOM	1099	CG	LEU	138	39.996	81.771	31.575	1.00193.50	C
ATOM	1100	CD1	LEU	138	40.806	82.897	32.240	1.00193.50	C
ATOM	1101	CD2	LEU	138	40.465	80.416	32.138	1.00193.50	C
ATOM	1102	C	LEU	138	37.805	79.712	31.143	1.00193.50	C
ATOM	1103	O	LEU	138	38.250	79.053	30.216	1.00193.50	O

ATOM	1104	N	ASN	139	37.584	79.165	32.348	1.00119.84	N
ATOM	1105	CA	ASN	139	37.950	77.795	32.584	1.00119.84	C
ATOM	1106	CB	ASN	139	37.736	77.357	34.045	1.00119.84	C
ATOM	1107	CG	ASN	139	36.304	77.672	34.451	1.00119.84	C
ATOM	1108	OD1	ASN	139	36.036	78.704	35.066	1.00119.84	O
ATOM	1109	ND2	ASN	139	35.356	76.769	34.089	1.00119.84	N
ATOM	1110	C	ASN	139	37.091	76.992	31.683	1.00119.84	C
ATOM	1111	O	ASN	139	37.540	75.984	31.142	1.00119.84	O
ATOM	1112	N	THR	140	35.838	77.456	31.477	1.00 81.84	N
ATOM	1113	CA	THR	140	34.949	76.765	30.598	1.00 81.84	C
ATOM	1114	CB	THR	140	33.659	77.489	30.333	1.00 81.84	C
ATOM	1115	OG1	THR	140	32.912	77.632	31.531	1.00 81.84	O
ATOM	1116	CG2	THR	140	32.852	76.694	29.294	1.00 81.84	C
ATOM	1117	C	THR	140	35.679	76.719	29.308	1.00 81.84	C
ATOM	1118	O	THR	140	35.739	75.677	28.669	1.00 81.84	O
ATOM	1119	N	ARG	141	36.307	77.850	28.949	1.00252.69	N
ATOM	1120	CA	ARG	141	37.102	78.000	27.766	1.00252.69	C
ATOM	1121	CB	ARG	141	37.587	79.448	27.587	1.00252.69	C
ATOM	1122	CG	ARG	141	38.884	79.548	26.790	1.00252.69	C
ATOM	1123	CD	ARG	141	39.290	80.978	26.438	1.00252.69	C
ATOM	1124	NE	ARG	141	38.509	81.359	25.230	1.00252.69	N
ATOM	1125	CZ	ARG	141	37.269	81.909	25.356	1.00252.69	C
ATOM	1126	NH1	ARG	141	36.786	82.209	26.596	1.00252.69	N
ATOM	1127	NH2	ARG	141	36.518	82.144	24.241	1.00252.69	N
ATOM	1128	C	ARG	141	38.322	77.117	27.792	1.00252.69	C
ATOM	1129	O	ARG	141	38.719	76.604	26.754	1.00252.69	O
ATOM	1130	N	LEU	142	38.983	76.914	28.946	1.00173.34	N
ATOM	1131	CA	LEU	142	40.191	76.136	28.947	1.00173.34	C
ATOM	1132	CB	LEU	142	40.749	75.993	30.383	1.00173.34	C
ATOM	1133	CG	LEU	142	42.054	75.183	30.567	1.00173.34	C
ATOM	1134	CD1	LEU	142	41.877	73.684	30.280	1.00173.34	C
ATOM	1135	CD2	LEU	142	43.206	75.819	29.777	1.00173.34	C
ATOM	1136	C	LEU	142	39.850	74.774	28.437	1.00173.34	C
ATOM	1137	O	LEU	142	40.409	74.341	27.436	1.00173.34	O
ATOM	1138	N	THR	143	38.892	74.077	29.080	1.00173.19	N
ATOM	1139	CA	THR	143	38.534	72.752	28.645	1.00173.19	C
ATOM	1140	CB	THR	143	37.754	71.979	29.667	1.00173.19	C
ATOM	1141	OG1	THR	143	36.543	72.646	29.989	1.00173.19	O
ATOM	1142	CG2	THR	143	38.628	71.823	30.919	1.00173.19	C
ATOM	1143	C	THR	143	37.744	72.788	27.387	1.00173.19	C
ATOM	1144	O	THR	143	38.018	72.033	26.460	1.00173.19	O
ATOM	1145	N	ASP	144	36.749	73.682	27.306	1.00140.99	N
ATOM	1146	CA	ASP	144	35.890	73.685	26.162	1.00140.99	C
ATOM	1147	CB	ASP	144	34.803	74.767	26.260	1.00140.99	C
ATOM	1148	CG	ASP	144	33.741	74.504	25.207	1.00140.99	C
ATOM	1149	OD1	ASP	144	34.108	74.100	24.072	1.00140.99	O
ATOM	1150	OD2	ASP	144	32.542	74.714	25.530	1.00140.99	O
ATOM	1151	C	ASP	144	36.723	73.974	24.955	1.00140.99	C
ATOM	1152	O	ASP	144	36.630	73.258	23.963	1.00140.99	O
ATOM	1153	N	ASP	145	37.565	75.027	25.012	1.00124.86	N
ATOM	1154	CA	ASP	145	38.365	75.403	23.887	1.00124.86	C
ATOM	1155	CB	ASP	145	39.042	76.774	24.039	1.00124.86	C
ATOM	1156	CG	ASP	145	37.930	77.812	23.950	1.00124.86	C
ATOM	1157	OD1	ASP	145	36.817	77.530	24.468	1.00124.86	O
ATOM	1158	OD2	ASP	145	38.178	78.899	23.363	1.00124.86	O
ATOM	1159	C	ASP	145	39.401	74.370	23.605	1.00124.86	C
ATOM	1160	O	ASP	145	39.501	73.942	22.460	1.00124.86	O
ATOM	1161	N	VAL	146	40.150	73.891	24.629	1.00183.96	N
ATOM	1162	CA	VAL	146	41.191	72.935	24.356	1.00183.96	C
ATOM	1163	CB	VAL	146	41.932	72.400	25.548	1.00183.96	C
ATOM	1164	CG1	VAL	146	42.704	73.553	26.190	1.00183.96	C
ATOM	1165	CG2	VAL	146	40.962	71.678	26.491	1.00183.96	C
ATOM	1166	C	VAL	146	40.547	71.763	23.676	1.00183.96	C
ATOM	1167	O	VAL	146	41.059	71.291	22.665	1.00183.96	O
ATOM	1168	N	SER	147	39.371	71.328	24.177	1.00106.91	N
ATOM	1169	CA	SER	147	38.617	70.213	23.658	1.00106.91	C
ATOM	1170	CB	SER	147	37.334	69.947	24.469	1.00106.91	C
ATOM	1171	OG	SER	147	37.660	69.564	25.797	1.00106.91	O
ATOM	1172	C	SER	147	38.187	70.514	22.242	1.00106.91	C
ATOM	1173	O	SER	147	38.345	69.685	21.351	1.00106.91	O
ATOM	1174	N	LYS	148	37.675	71.732	21.979	1.00153.53	N
ATOM	1175	CA	LYS	148	37.143	72.102	20.696	1.00153.53	C
ATOM	1176	CB	LYS	148	36.698	73.572	20.636	1.00153.53	C
ATOM	1177	CG	LYS	148	35.954	73.936	19.348	1.00153.53	C



ATOM	1178	CD	LYS	148	35.480	75.390	19.308	1.00153.53	C
ATOM	1179	CE	LYS	148	34.746	75.827	20.575	1.00153.53	C
ATOM	1180	NZ	LYS	148	34.586	77.296	20.576	1.00153.53	N
ATOM	1181	C	LYS	148	38.237	71.961	19.691	1.00153.53	C
ATOM	1182	O	LYS	148	37.990	71.674	18.520	1.00153.53	O
ATOM	1183	N	ILE	149	39.481	72.228	20.121	1.00149.82	N
ATOM	1184	CA	ILE	149	40.614	72.114	19.266	1.00149.82	C
ATOM	1185	CB	ILE	149	41.856	72.531	19.972	1.00149.82	C
ATOM	1186	CG1	ILE	149	41.554	73.873	20.650	1.00149.82	C
ATOM	1187	CG2	ILE	149	43.020	72.574	18.972	1.00149.82	C
ATOM	1188	CD1	ILE	149	40.715	74.802	19.772	1.00149.82	C
ATOM	1189	C	ILE	149	40.711	70.663	18.914	1.00149.82	C
ATOM	1190	O	ILE	149	40.857	70.300	17.748	1.00149.82	O
ATOM	1191	N	ASN	150	40.553	69.801	19.940	1.00 97.45	N
ATOM	1192	CA	ASN	150	40.658	68.374	19.836	1.00 97.45	C
ATOM	1193	CB	ASN	150	40.302	67.706	21.179	1.00 97.45	C
ATOM	1194	CG	ASN	150	40.775	66.264	21.172	1.00 97.45	C
ATOM	1195	OD1	ASN	150	40.737	65.592	20.144	1.00 97.45	O
ATOM	1196	ND2	ASN	150	41.239	65.772	22.353	1.00 97.45	N
ATOM	1197	C	ASN	150	39.664	67.912	18.813	1.00 97.45	C
ATOM	1198	O	ASN	150	40.010	67.250	17.836	1.00 97.45	O
ATOM	1199	N	GLU	151	38.402	68.334	18.965	1.00120.22	N
ATOM	1200	CA	GLU	151	37.369	67.892	18.083	1.00120.22	C
ATOM	1201	CB	GLU	151	36.026	68.540	18.436	1.00120.22	C
ATOM	1202	CG	GLU	151	34.834	67.936	17.707	1.00120.22	C
ATOM	1203	CD	GLU	151	33.591	68.463	18.405	1.00120.22	C
ATOM	1204	OE1	GLU	151	33.546	68.386	19.662	1.00120.22	O
ATOM	1205	OE2	GLU	151	32.673	68.954	17.695	1.00120.22	O
ATOM	1206	C	GLU	151	37.761	68.326	16.700	1.00120.22	C
ATOM	1207	O	GLU	151	37.583	67.572	15.748	1.00120.22	O
ATOM	1208	N	GLY	152	38.369	69.525	16.560	1.00 60.76	N
ATOM	1209	CA	GLY	152	38.718	70.062	15.276	1.00 60.76	C
ATOM	1210	C	GLY	152	39.614	69.099	14.557	1.00 60.76	C
ATOM	1211	O	GLY	152	39.475	68.905	13.350	1.00 60.76	O
ATOM	1212	N	ILE	153	40.587	68.501	15.268	1.00109.72	N
ATOM	1213	CA	ILE	153	41.531	67.630	14.622	1.00109.72	C
ATOM	1214	CB	ILE	153	42.680	67.337	15.527	1.00109.72	C
ATOM	1215	CG1	ILE	153	43.322	68.671	15.935	1.00109.72	C
ATOM	1216	CG2	ILE	153	43.636	66.375	14.798	1.00109.72	C
ATOM	1217	CD1	ILE	153	44.228	68.582	17.155	1.00109.72	C
ATOM	1218	C	ILE	153	40.961	66.297	14.158	1.00109.72	C
ATOM	1219	O	ILE	153	41.047	65.971	12.975	1.00109.72	O
ATOM	1220	N	GLY	154	40.348	65.493	15.060	1.00 78.87	N
ATOM	1221	CA	GLY	154	39.848	64.171	14.740	1.00 78.87	C
ATOM	1222	C	GLY	154	38.688	64.227	13.782	1.00 78.87	C
ATOM	1223	O	GLY	154	38.566	63.359	12.921	1.00 78.87	O
ATOM	1224	N	ASP	155	37.763	65.201	13.931	1.00165.98	N
ATOM	1225	CA	ASP	155	36.608	65.224	13.070	1.00165.98	C
ATOM	1226	CB	ASP	155	35.450	66.164	13.492	1.00165.98	C
ATOM	1227	CG	ASP	155	35.706	67.612	13.096	1.00165.98	C
ATOM	1228	OD1	ASP	155	35.537	67.909	11.883	1.00165.98	O
ATOM	1229	OD2	ASP	155	36.026	68.449	13.977	1.00165.98	O
ATOM	1230	C	ASP	155	37.048	65.633	11.708	1.00165.98	C
ATOM	1231	O	ASP	155	36.510	65.144	10.721	1.00165.98	O
ATOM	1232	N	LYS	156	38.063	66.520	11.628	1.00158.91	N
ATOM	1233	CA	LYS	156	38.564	67.017	10.379	1.00158.91	C
ATOM	1234	CB	LYS	156	39.919	67.714	10.515	1.00158.91	C
ATOM	1235	CG	LYS	156	40.546	68.019	9.154	1.00158.91	C
ATOM	1236	CD	LYS	156	42.034	68.345	9.249	1.00158.91	C
ATOM	1237	CE	LYS	156	42.881	67.073	9.163	1.00158.91	C
ATOM	1238	NZ	LYS	156	42.185	65.978	9.877	1.00158.91	N
ATOM	1239	C	LYS	156	38.899	65.809	9.580	1.00158.91	C
ATOM	1240	O	LYS	156	38.712	65.771	8.363	1.00158.91	O
ATOM	1241	N	ILE	157	39.402	64.773	10.268	1.00136.21	N
ATOM	1242	CA	ILE	157	39.825	63.630	9.529	1.00136.21	C
ATOM	1243	CB	ILE	157	40.465	62.556	10.368	1.00136.21	C
ATOM	1244	CG1	ILE	157	39.495	61.588	11.070	1.00136.21	C
ATOM	1245	CG2	ILE	157	41.259	63.360	11.402	1.00136.21	C
ATOM	1246	CD1	ILE	157	38.968	60.468	10.169	1.00136.21	C
ATOM	1247	C	ILE	157	38.594	63.081	8.885	1.00136.21	C
ATOM	1248	O	ILE	157	38.569	62.818	7.687	1.00136.21	O
ATOM	1249	N	GLY	158	37.499	62.990	9.662	1.00 49.79	N
ATOM	1250	CA	GLY	158	36.286	62.390	9.192	1.00 49.79	C
ATOM	1251	C	GLY	158	35.857	63.068	7.926	1.00 49.79	C

ATOM	1252	O	GLY	158	35.496	62.394	6.963	1.00	49.79	O
ATOM	1253	N	MET	159	35.922	64.413	7.871	1.00	74.72	N
ATOM	1254	CA	MET	159	35.473	65.119	6.704	1.00	74.72	C
ATOM	1255	CB	MET	159	35.624	66.646	6.840	1.00	74.72	C
ATOM	1256	CG	MET	159	35.058	67.460	5.673	1.00	74.72	C
ATOM	1257	SD	MET	159	36.058	67.449	4.152	1.00	74.72	S
ATOM	1258	CE	MET	159	37.331	68.600	4.747	1.00	74.72	C
ATOM	1259	C	MET	159	36.280	64.718	5.512	1.00	74.72	C
ATOM	1260	O	MET	159	35.708	64.376	4.478	1.00	74.72	O
ATOM	1261	N	PHE	160	37.620	64.674	5.651	1.00	133.46	N
ATOM	1262	CA	PHE	160	38.517	64.448	4.545	1.00	133.46	C
ATOM	1263	CB	PHE	160	39.962	64.219	5.023	1.00	133.46	C
ATOM	1264	CG	PHE	160	40.897	64.402	3.877	1.00	133.46	C
ATOM	1265	CD1	PHE	160	41.049	63.432	2.914	1.00	133.46	C
ATOM	1266	CD2	PHE	160	41.641	65.557	3.782	1.00	133.46	C
ATOM	1267	CE1	PHE	160	41.920	63.619	1.866	1.00	133.46	C
ATOM	1268	CE2	PHE	160	42.513	65.748	2.737	1.00	133.46	C
ATOM	1269	CZ	PHE	160	42.654	64.777	1.774	1.00	133.46	C
ATOM	1270	C	PHE	160	38.049	63.189	3.901	1.00	133.46	C
ATOM	1271	O	PHE	160	37.801	63.145	2.696	1.00	133.46	O
ATOM	1272	N	PHE	161	37.786	62.175	4.740	1.00	113.36	N
ATOM	1273	CA	PHE	161	37.294	60.922	4.264	1.00	113.36	C
ATOM	1274	CB	PHE	161	37.026	59.981	5.459	1.00	113.36	C
ATOM	1275	CG	PHE	161	35.858	59.086	5.223	1.00	113.36	C
ATOM	1276	CD1	PHE	161	35.773	58.254	4.133	1.00	113.36	C
ATOM	1277	CD2	PHE	161	34.852	59.056	6.162	1.00	113.36	C
ATOM	1278	CE1	PHE	161	34.675	57.440	3.971	1.00	113.36	C
ATOM	1279	CE2	PHE	161	33.755	58.243	6.008	1.00	113.36	C
ATOM	1280	CZ	PHE	161	33.664	57.434	4.903	1.00	113.36	C
ATOM	1281	C	PHE	161	36.045	61.120	3.441	1.00	113.36	C
ATOM	1282	O	PHE	161	36.012	60.768	2.264	1.00	113.36	O
ATOM	1283	N	GLN	162	35.002	61.759	3.989	1.00	130.17	N
ATOM	1284	CA	GLN	162	33.766	61.870	3.258	1.00	130.17	C
ATOM	1285	CB	GLN	162	32.633	62.477	4.103	1.00	130.17	C
ATOM	1286	CG	GLN	162	31.263	62.442	3.422	1.00	130.17	C
ATOM	1287	CD	GLN	162	30.769	61.001	3.422	1.00	130.17	C
ATOM	1288	OE1	GLN	162	31.308	60.146	2.722	1.00	130.17	O
ATOM	1289	NE2	GLN	162	29.712	60.722	4.231	1.00	130.17	N
ATOM	1290	C	GLN	162	33.947	62.713	2.033	1.00	130.17	C
ATOM	1291	O	GLN	162	33.365	62.423	0.989	1.00	130.17	O
ATOM	1292	N	SER	163	34.776	63.772	2.119	1.00	53.58	N
ATOM	1293	CA	SER	163	34.911	64.671	1.012	1.00	53.58	C
ATOM	1294	CB	SER	163	35.925	65.800	1.258	1.00	53.58	C
ATOM	1295	OG	SER	163	37.237	65.268	1.346	1.00	53.58	O
ATOM	1296	C	SER	163	35.363	63.882	-0.178	1.00	53.58	C
ATOM	1297	O	SER	163	35.000	64.191	-1.310	1.00	53.58	O
ATOM	1298	N	MET	164	36.211	62.867	0.055	1.00	187.51	N
ATOM	1299	CA	MET	164	36.715	62.012	-0.985	1.00	187.51	C
ATOM	1300	CB	MET	164	37.958	61.234	-0.535	1.00	187.51	C
ATOM	1301	CG	MET	164	38.844	60.891	-1.723	1.00	187.51	C
ATOM	1302	SD	MET	164	39.595	62.372	-2.469	1.00	187.51	S
ATOM	1303	CE	MET	164	40.807	62.666	-1.152	1.00	187.51	C
ATOM	1304	C	MET	164	35.702	61.023	-1.491	1.00	187.51	C
ATOM	1305	O	MET	164	35.704	60.681	-2.673	1.00	187.51	O
ATOM	1306	N	ALA	165	34.836	60.485	-0.607	1.00	47.49	N
ATOM	1307	CA	ALA	165	33.888	59.497	-1.050	1.00	47.49	C
ATOM	1308	CB	ALA	165	32.986	58.966	0.077	1.00	47.49	C
ATOM	1309	C	ALA	165	33.004	60.169	-2.035	1.00	47.49	C
ATOM	1310	O	ALA	165	32.619	59.573	-3.035	1.00	47.49	O
ATOM	1311	N	THR	166	32.639	61.426	-1.729	1.00	91.28	N
ATOM	1312	CA	THR	166	31.811	62.264	-2.547	1.00	91.28	C
ATOM	1313	CB	THR	166	31.730	63.649	-1.968	1.00	91.28	C
ATOM	1314	OG1	THR	166	31.212	63.657	-0.650	1.00	91.28	O
ATOM	1315	CG2	THR	166	30.900	64.525	-2.905	1.00	91.28	C
ATOM	1316	C	THR	166	32.508	62.541	-3.835	1.00	91.28	C
ATOM	1317	O	THR	166	32.009	62.248	-4.921	1.00	91.28	O
ATOM	1318	N	PHE	167	33.722	63.103	-3.716	1.00	66.84	N
ATOM	1319	CA	PHE	167	34.425	63.588	-4.864	1.00	66.84	C
ATOM	1320	CB	PHE	167	35.792	64.188	-4.478	1.00	66.84	C
ATOM	1321	CG	PHE	167	36.487	64.731	-5.684	1.00	66.84	C
ATOM	1322	CD1	PHE	167	36.282	66.033	-6.075	1.00	66.84	C
ATOM	1323	CD2	PHE	167	37.348	63.949	-6.422	1.00	66.84	C
ATOM	1324	CE1	PHE	167	36.919	66.548	-7.180	1.00	66.84	C
ATOM	1325	CE2	PHE	167	37.988	64.457	-7.529	1.00	66.84	C

ATOM	1326	CZ	PHE	167	37.774	65.760	-7.910	1.00	66.84	C
ATOM	1327	C	PHE	167	34.652	62.460	-5.808	1.00	66.84	C
ATOM	1328	O	PHE	167	34.188	62.492	-6.945	1.00	66.84	O
ATOM	1329	N	PHE	168	35.319	61.397	-5.334	1.00	94.92	N
ATOM	1330	CA	PHE	168	35.622	60.285	-6.181	1.00	94.92	C
ATOM	1331	CB	PHE	168	36.581	59.240	-5.583	1.00	94.92	C
ATOM	1332	CG	PHE	168	37.967	59.769	-5.712	1.00	94.92	C
ATOM	1333	CD1	PHE	168	38.473	60.062	-6.957	1.00	94.92	C
ATOM	1334	CD2	PHE	168	38.779	59.924	-4.615	1.00	94.92	C
ATOM	1335	CE1	PHE	168	39.752	60.541	-7.112	1.00	94.92	C
ATOM	1336	CE2	PHE	168	40.061	60.400	-4.766	1.00	94.92	C
ATOM	1337	CZ	PHE	168	40.551	60.714	-6.009	1.00	94.92	C
ATOM	1338	C	PHE	168	34.383	59.568	-6.587	1.00	94.92	C
ATOM	1339	O	PHE	168	34.329	59.075	-7.704	1.00	94.92	O
ATOM	1340	N	THR	169	33.365	59.425	-5.718	1.00	150.50	N
ATOM	1341	CA	THR	169	32.239	58.666	-6.196	1.00	150.50	C
ATOM	1342	CB	THR	169	31.118	58.447	-5.195	1.00	150.50	C
ATOM	1343	OG1	THR	169	30.116	57.653	-5.813	1.00	150.50	O
ATOM	1344	CG2	THR	169	30.471	59.755	-4.691	1.00	150.50	C
ATOM	1345	C	THR	169	31.635	59.324	-7.399	1.00	150.50	C
ATOM	1346	O	THR	169	31.676	58.774	-8.498	1.00	150.50	O
ATOM	1347	N	GLY	170	31.205	60.585	-7.249	1.00	58.40	N
ATOM	1348	CA	GLY	170	30.501	61.281	-8.271	1.00	58.40	C
ATOM	1349	C	GLY	170	31.394	61.326	-9.452	1.00	58.40	C
ATOM	1350	O	GLY	170	30.927	61.488	-10.575	1.00	58.40	O
ATOM	1351	N	PHE	171	32.715	61.365	-9.212	1.00	116.68	N
ATOM	1352	CA	PHE	171	33.606	61.365	-10.326	1.00	116.68	C
ATOM	1353	CB	PHE	171	35.022	61.829	-9.947	1.00	116.68	C
ATOM	1354	CG	PHE	171	35.848	61.802	-11.187	1.00	116.68	C
ATOM	1355	CD1	PHE	171	35.765	62.825	-12.103	1.00	116.68	C
ATOM	1356	CD2	PHE	171	36.713	60.761	-11.432	1.00	116.68	C
ATOM	1357	CE1	PHE	171	36.526	62.806	-13.249	1.00	116.68	C
ATOM	1358	CE2	PHE	171	37.476	60.736	-12.576	1.00	116.68	C
ATOM	1359	CZ	PHE	171	37.383	61.760	-13.487	1.00	116.68	C
ATOM	1360	C	PHE	171	33.729	60.029	-10.979	1.00	116.68	C
ATOM	1361	O	PHE	171	33.164	59.824	-12.042	1.00	116.68	O
ATOM	1362	N	ILE	172	34.307	59.032	-10.271	1.00	127.29	N
ATOM	1363	CA	ILE	172	34.666	57.773	-10.860	1.00	127.29	C
ATOM	1364	CB	ILE	172	35.197	56.779	-9.870	1.00	127.29	C
ATOM	1365	CG1	ILE	172	36.635	57.148	-9.464	1.00	127.29	C
ATOM	1366	CG2	ILE	172	35.059	55.378	-10.490	1.00	127.29	C
ATOM	1367	CD1	ILE	172	36.772	58.511	-8.796	1.00	127.29	C
ATOM	1368	C	ILE	172	33.460	57.190	-11.500	1.00	127.29	C
ATOM	1369	O	ILE	172	33.472	56.937	-12.699	1.00	127.29	O
ATOM	1370	N	VAL	173	32.359	57.024	-10.762	1.00	122.04	N
ATOM	1371	CA	VAL	173	31.196	56.509	-11.420	1.00	122.04	C
ATOM	1372	CB	VAL	173	30.137	56.048	-10.463	1.00	122.04	C
ATOM	1373	CG1	VAL	173	30.705	54.860	-9.669	1.00	122.04	C
ATOM	1374	CG2	VAL	173	29.687	57.231	-9.589	1.00	122.04	C
ATOM	1375	C	VAL	173	30.593	57.555	-12.301	1.00	122.04	C
ATOM	1376	O	VAL	173	30.252	57.299	-13.453	1.00	122.04	O
ATOM	1377	N	GLY	174	30.524	58.793	-11.789	1.00	89.02	N
ATOM	1378	CA	GLY	174	29.800	59.856	-12.414	1.00	89.02	C
ATOM	1379	C	GLY	174	30.289	60.135	-13.792	1.00	89.02	C
ATOM	1380	O	GLY	174	29.553	60.727	-14.567	1.00	89.02	O
ATOM	1381	N	PHE	175	31.583	59.995	-14.080	1.00	139.31	N
ATOM	1382	CA	PHE	175	32.080	60.064	-15.423	1.00	139.31	C
ATOM	1383	CB	PHE	175	33.418	60.831	-15.430	1.00	139.31	C
ATOM	1384	CG	PHE	175	34.032	60.879	-16.786	1.00	139.31	C
ATOM	1385	CD1	PHE	175	33.487	61.646	-17.788	1.00	139.31	C
ATOM	1386	CD2	PHE	175	35.192	60.181	-17.036	1.00	139.31	C
ATOM	1387	CE1	PHE	175	34.075	61.690	-19.030	1.00	139.31	C
ATOM	1388	CE2	PHE	175	35.784	60.222	-18.276	1.00	139.31	C
ATOM	1389	CZ	PHE	175	35.223	60.977	-19.277	1.00	139.31	C
ATOM	1390	C	PHE	175	32.280	58.727	-16.095	1.00	139.31	C
ATOM	1391	O	PHE	175	31.739	58.447	-17.163	1.00	139.31	O
ATOM	1392	N	THR	176	33.012	57.815	-15.414	1.00	147.19	N
ATOM	1393	CA	THR	176	33.540	56.665	-16.100	1.00	147.19	C
ATOM	1394	CB	THR	176	34.417	55.757	-15.284	1.00	147.19	C
ATOM	1395	OG1	THR	176	33.648	54.999	-14.362	1.00	147.19	O
ATOM	1396	CG2	THR	176	35.466	56.614	-14.552	1.00	147.19	C
ATOM	1397	C	THR	176	32.461	55.806	-16.639	1.00	147.19	C
ATOM	1398	O	THR	176	32.546	55.356	-17.780	1.00	147.19	O
ATOM	1399	N	ARG	177	31.404	55.550	-15.854	1.00	153.81	N

ATOM	1400	CA	ARG	177	30.476	54.608	-16.386	1.00153.81	C
ATOM	1401	CB	ARG	177	29.958	53.624	-15.329	1.00153.81	C
ATOM	1402	CG	ARG	177	31.101	52.849	-14.666	1.00153.81	C
ATOM	1403	CD	ARG	177	31.587	51.616	-15.437	1.00153.81	C
ATOM	1404	NE	ARG	177	32.179	52.051	-16.733	1.00153.81	N
ATOM	1405	CZ	ARG	177	31.404	52.066	-17.857	1.00153.81	C
ATOM	1406	NH1	ARG	177	30.086	51.723	-17.774	1.00153.81	N
ATOM	1407	NH2	ARG	177	31.939	52.423	-19.061	1.00153.81	N
ATOM	1408	C	ARG	177	29.330	55.322	-16.997	1.00153.81	C
ATOM	1409	O	ARG	177	28.508	55.902	-16.296	1.00153.81	O
ATOM	1410	N	GLY	178	29.198	55.214	-18.332	1.00 62.43	N
ATOM	1411	CA	GLY	178	28.143	55.911	-19.004	1.00 62.43	C
ATOM	1412	C	GLY	178	28.651	56.593	-20.231	1.00 62.43	C
ATOM	1413	O	GLY	178	27.985	56.503	-21.260	1.00 62.43	O
ATOM	1414	N	TRP	179	29.850	57.218	-20.192	1.00 95.06	N
ATOM	1415	CA	TRP	179	30.358	57.895	-21.363	1.00 95.06	C
ATOM	1416	CB	TRP	179	30.659	56.918	-22.513	1.00 95.06	C
ATOM	1417	CG	TRP	179	31.668	55.837	-22.208	1.00 95.06	C
ATOM	1418	CD2	TRP	179	31.668	54.566	-22.872	1.00 95.06	C
ATOM	1419	CD1	TRP	179	32.679	55.792	-21.290	1.00 95.06	C
ATOM	1420	NE1	TRP	179	33.304	54.567	-21.344	1.00 95.06	N
ATOM	1421	CE2	TRP	179	32.690	53.801	-22.314	1.00 95.06	C
ATOM	1422	CE3	TRP	179	30.867	54.070	-23.861	1.00 95.06	C
ATOM	1423	CZ2	TRP	179	32.930	52.524	-22.737	1.00 95.06	C
ATOM	1424	CZ3	TRP	179	31.122	52.788	-24.294	1.00 95.06	C
ATOM	1425	CH2	TRP	179	32.133	52.026	-23.745	1.00 95.06	C
ATOM	1426	C	TRP	179	29.270	58.798	-21.883	1.00 95.06	C
ATOM	1427	O	TRP	179	28.729	58.564	-22.960	1.00 95.06	O
ATOM	1428	N	LYS	180	28.910	59.835	-21.111	1.00150.01	N
ATOM	1429	CA	LYS	180	27.842	60.752	-21.406	1.00150.01	C
ATOM	1430	CB	LYS	180	27.678	61.099	-22.897	1.00150.01	C
ATOM	1431	CG	LYS	180	28.887	61.785	-23.530	1.00150.01	C
ATOM	1432	CD	LYS	180	29.993	60.807	-23.920	1.00150.01	C
ATOM	1433	CE	LYS	180	29.605	59.972	-25.143	1.00150.01	C
ATOM	1434	NZ	LYS	180	30.598	58.903	-25.379	1.00150.01	N
ATOM	1435	C	LYS	180	26.532	60.154	-20.972	1.00150.01	C
ATOM	1436	O	LYS	180	25.527	60.861	-20.919	1.00150.01	O
ATOM	1437	N	LEU	181	26.479	58.832	-20.699	1.00151.44	N
ATOM	1438	CA	LEU	181	25.326	58.237	-20.074	1.00151.44	C
ATOM	1439	CB	LEU	181	25.265	56.703	-20.235	1.00151.44	C
ATOM	1440	CG	LEU	181	24.091	56.014	-19.498	1.00151.44	C
ATOM	1441	CD1	LEU	181	24.337	55.903	-17.985	1.00151.44	C
ATOM	1442	CD2	LEU	181	22.757	56.709	-19.802	1.00151.44	C
ATOM	1443	C	LEU	181	25.446	58.552	-18.635	1.00151.44	C
ATOM	1444	O	LEU	181	24.480	58.864	-17.945	1.00151.44	O
ATOM	1445	N	THR	182	26.698	58.461	-18.165	1.00153.43	N
ATOM	1446	CA	THR	182	27.062	58.763	-16.822	1.00153.43	C
ATOM	1447	CB	THR	182	28.512	58.573	-16.570	1.00153.43	C
ATOM	1448	OG1	THR	182	28.688	58.380	-15.182	1.00153.43	O
ATOM	1449	CG2	THR	182	29.341	59.749	-17.107	1.00153.43	C
ATOM	1450	C	THR	182	26.788	60.211	-16.716	1.00153.43	C
ATOM	1451	O	THR	182	26.607	60.755	-15.628	1.00153.43	O
ATOM	1452	N	LEU	183	26.891	60.863	-17.888	1.00188.87	N
ATOM	1453	CA	LEU	183	26.588	62.236	-18.098	1.00188.87	C
ATOM	1454	CB	LEU	183	27.109	62.813	-19.424	1.00188.87	C
ATOM	1455	CG	LEU	183	28.620	63.110	-19.406	1.00188.87	C
ATOM	1456	CD1	LEU	183	28.945	64.225	-18.397	1.00188.87	C
ATOM	1457	CD2	LEU	183	29.452	61.837	-19.186	1.00188.87	C
ATOM	1458	C	LEU	183	25.120	62.410	-18.062	1.00188.87	C
ATOM	1459	O	LEU	183	24.655	63.482	-17.710	1.00188.87	O
ATOM	1460	N	VAL	184	24.339	61.402	-18.486	1.00 59.76	N
ATOM	1461	CA	VAL	184	22.924	61.543	-18.347	1.00 59.76	C
ATOM	1462	CB	VAL	184	22.152	60.319	-18.738	1.00 59.76	C
ATOM	1463	CG1	VAL	184	20.665	60.570	-18.431	1.00 59.76	C
ATOM	1464	CG2	VAL	184	22.446	60.004	-20.214	1.00 59.76	C
ATOM	1465	C	VAL	184	22.752	61.718	-16.883	1.00 59.76	C
ATOM	1466	O	VAL	184	21.963	62.544	-16.427	1.00 59.76	O
ATOM	1467	N	ILE	185	23.549	60.959	-16.109	1.00147.83	N
ATOM	1468	CA	ILE	185	23.476	61.108	-14.691	1.00147.83	C
ATOM	1469	CB	ILE	185	24.459	60.293	-13.905	1.00147.83	C
ATOM	1470	CG1	ILE	185	24.204	58.782	-13.995	1.00147.83	C
ATOM	1471	CG2	ILE	185	24.400	60.832	-12.468	1.00147.83	C
ATOM	1472	CD1	ILE	185	24.610	58.145	-15.315	1.00147.83	C
ATOM	1473	C	ILE	185	23.856	62.498	-14.347	1.00147.83	C

ATOM	1474	O	ILE	185	23.027	63.239	-13.830	1.00147.83	O
ATOM	1475	N	LEU	186	25.065	62.922	-14.768	1.00 78.20	N
ATOM	1476	CA	LEU	186	25.618	64.174	-14.338	1.00 78.20	C
ATOM	1477	CB	LEU	186	26.947	64.506	-15.038	1.00 78.20	C
ATOM	1478	CG	LEU	186	28.036	63.443	-14.803	1.00 78.20	C
ATOM	1479	CD1	LEU	186	29.393	63.893	-15.368	1.00 78.20	C
ATOM	1480	CD2	LEU	186	28.101	63.027	-13.325	1.00 78.20	C
ATOM	1481	C	LEU	186	24.637	65.246	-14.683	1.00 78.20	C
ATOM	1482	O	LEU	186	24.422	66.177	-13.911	1.00 78.20	O
ATOM	1483	N	ALA	187	24.024	65.163	-15.872	1.00 93.35	N
ATOM	1484	CA	ALA	187	23.095	66.180	-16.234	1.00 93.35	C
ATOM	1485	CB	ALA	187	22.676	66.088	-17.708	1.00 93.35	C
ATOM	1486	C	ALA	187	21.837	66.158	-15.420	1.00 93.35	C
ATOM	1487	O	ALA	187	21.667	66.982	-14.532	1.00 93.35	O
ATOM	1488	N	ILE	188	20.977	65.135	-15.577	1.00126.57	N
ATOM	1489	CA	ILE	188	19.716	65.236	-14.902	1.00126.57	C
ATOM	1490	CB	ILE	188	18.706	64.230	-15.409	1.00126.57	C
ATOM	1491	CG1	ILE	188	19.211	62.779	-15.321	1.00126.57	C
ATOM	1492	CG2	ILE	188	18.326	64.642	-16.842	1.00126.57	C
ATOM	1493	CD1	ILE	188	19.120	62.131	-13.944	1.00126.57	C
ATOM	1494	C	ILE	188	19.928	65.173	-13.427	1.00126.57	C
ATOM	1495	O	ILE	188	19.450	66.032	-12.688	1.00126.57	O
ATOM	1496	N	SER	189	20.727	64.200	-12.967	1.00136.86	N
ATOM	1497	CA	SER	189	20.903	64.013	-11.564	1.00136.86	C
ATOM	1498	CB	SER	189	21.675	62.711	-11.241	1.00136.86	C
ATOM	1499	OG	SER	189	21.628	62.429	-9.851	1.00136.86	O
ATOM	1500	C	SER	189	21.522	65.249	-10.970	1.00136.86	C
ATOM	1501	O	SER	189	20.817	65.922	-10.219	1.00136.86	O
ATOM	1502	N	PRO	190	22.727	65.683	-11.285	1.00101.29	N
ATOM	1503	CA	PRO	190	23.211	66.867	-10.627	1.00101.29	C
ATOM	1504	CD	PRO	190	23.831	64.770	-11.555	1.00101.29	C
ATOM	1505	CB	PRO	190	24.685	66.983	-11.004	1.00101.29	C
ATOM	1506	CG	PRO	190	25.115	65.510	-11.136	1.00101.29	C
ATOM	1507	C	PRO	190	22.361	68.083	-10.865	1.00101.29	C
ATOM	1508	O	PRO	190	22.446	69.007	-10.059	1.00101.29	O
ATOM	1509	N	VAL	191	21.577	68.140	-11.963	1.00 56.62	N
ATOM	1510	CA	VAL	191	20.697	69.264	-12.163	1.00 56.62	C
ATOM	1511	CB	VAL	191	20.054	69.305	-13.517	1.00 56.62	C
ATOM	1512	CG1	VAL	191	18.922	70.347	-13.488	1.00 56.62	C
ATOM	1513	CG2	VAL	191	21.140	69.664	-14.543	1.00 56.62	C
ATOM	1514	C	VAL	191	19.598	69.243	-11.149	1.00 56.62	C
ATOM	1515	O	VAL	191	19.307	70.263	-10.528	1.00 56.62	O
ATOM	1516	N	LEU	192	18.950	68.077	-10.947	1.00104.69	N
ATOM	1517	CA	LEU	192	17.890	68.027	-9.982	1.00104.69	C
ATOM	1518	CB	LEU	192	17.190	66.659	-9.882	1.00104.69	C
ATOM	1519	CG	LEU	192	16.154	66.387	-10.991	1.00104.69	C
ATOM	1520	CD1	LEU	192	14.923	67.292	-10.826	1.00104.69	C
ATOM	1521	CD2	LEU	192	16.766	66.483	-12.393	1.00104.69	C
ATOM	1522	C	LEU	192	18.499	68.326	-8.658	1.00104.69	C
ATOM	1523	O	LEU	192	17.973	69.127	-7.891	1.00104.69	O
ATOM	1524	N	GLY	193	19.682	67.745	-8.401	1.00 53.74	N
ATOM	1525	CA	GLY	193	20.353	67.914	-7.148	1.00 53.74	C
ATOM	1526	C	GLY	193	20.540	69.378	-6.963	1.00 53.74	C
ATOM	1527	O	GLY	193	20.581	69.867	-5.837	1.00 53.74	O
ATOM	1528	N	LEU	194	20.717	70.104	-8.079	1.00147.98	N
ATOM	1529	CA	LEU	194	20.882	71.524	-8.037	1.00147.98	C
ATOM	1530	CB	LEU	194	21.164	72.093	-9.440	1.00147.98	C
ATOM	1531	CG	LEU	194	21.271	73.625	-9.513	1.00147.98	C
ATOM	1532	CD1	LEU	194	19.890	74.302	-9.491	1.00147.98	C
ATOM	1533	CD2	LEU	194	22.205	74.155	-8.415	1.00147.98	C
ATOM	1534	C	LEU	194	19.634	72.153	-7.498	1.00147.98	C
ATOM	1535	O	LEU	194	19.701	72.977	-6.590	1.00147.98	O
ATOM	1536	N	SER	195	18.452	71.763	-8.014	1.00 43.99	N
ATOM	1537	CA	SER	195	17.239	72.388	-7.567	1.00 43.99	C
ATOM	1538	CB	SER	195	15.989	71.868	-8.304	1.00 43.99	C
ATOM	1539	OG	SER	195	15.778	70.493	-8.017	1.00 43.99	O
ATOM	1540	C	SER	195	17.075	72.077	-6.114	1.00 43.99	C
ATOM	1541	O	SER	195	16.624	72.917	-5.338	1.00 43.99	O
ATOM	1542	N	ALA	196	17.426	70.842	-5.713	1.00 54.90	N
ATOM	1543	CA	ALA	196	17.290	70.445	-4.343	1.00 54.90	C
ATOM	1544	CB	ALA	196	17.609	68.956	-4.127	1.00 54.90	C
ATOM	1545	C	ALA	196	18.221	71.244	-3.482	1.00 54.90	C
ATOM	1546	O	ALA	196	17.822	71.783	-2.454	1.00 54.90	O
ATOM	1547	N	ALA	197	19.494	71.385	-3.890	1.00 55.73	N

ATOM	1548	CA	ALA	197	20.418	72.079	-3.043	1.00	55.73	C
ATOM	1549	CB	ALA	197	21.845	72.108	-3.616	1.00	55.73	C
ATOM	1550	C	ALA	197	19.963	73.494	-2.885	1.00	55.73	C
ATOM	1551	O	ALA	197	19.931	74.013	-1.774	1.00	55.73	O
ATOM	1552	N	VAL	198	19.584	74.154	-3.995	1.00	60.96	N
ATOM	1553	CA	VAL	198	19.211	75.541	-3.968	1.00	60.96	C
ATOM	1554	CB	VAL	198	18.965	76.073	-5.352	1.00	60.96	C
ATOM	1555	CG1	VAL	198	18.486	77.531	-5.257	1.00	60.96	C
ATOM	1556	CG2	VAL	198	20.247	75.886	-6.182	1.00	60.96	C
ATOM	1557	C	VAL	198	17.955	75.772	-3.185	1.00	60.96	C
ATOM	1558	O	VAL	198	17.957	76.500	-2.196	1.00	60.96	O
ATOM	1559	N	TRP	199	16.851	75.114	-3.580	1.00	84.84	N
ATOM	1560	CA	TRP	199	15.580	75.396	-2.977	1.00	84.84	C
ATOM	1561	CB	TRP	199	14.429	74.580	-3.598	1.00	84.84	C
ATOM	1562	CG	TRP	199	13.040	75.077	-3.259	1.00	84.84	C
ATOM	1563	CD2	TRP	199	12.298	74.791	-2.058	1.00	84.84	C
ATOM	1564	CD1	TRP	199	12.243	75.883	-4.018	1.00	84.84	C
ATOM	1565	NE1	TRP	199	11.053	76.114	-3.373	1.00	84.84	N
ATOM	1566	CE2	TRP	199	11.074	75.450	-2.167	1.00	84.84	C
ATOM	1567	CE3	TRP	199	12.608	74.044	-0.957	1.00	84.84	C
ATOM	1568	CZ2	TRP	199	10.140	75.373	-1.173	1.00	84.84	C
ATOM	1569	CZ3	TRP	199	11.662	73.967	0.043	1.00	84.84	C
ATOM	1570	CH2	TRP	199	10.452	74.619	-0.064	1.00	84.84	C
ATOM	1571	C	TRP	199	15.641	75.034	-1.527	1.00	84.84	C
ATOM	1572	O	TRP	199	15.272	75.832	-0.670	1.00	84.84	O
ATOM	1573	N	ALA	200	16.124	73.817	-1.206	1.00	62.70	N
ATOM	1574	CA	ALA	200	16.131	73.390	0.162	1.00	62.70	C
ATOM	1575	CB	ALA	200	16.661	71.959	0.339	1.00	62.70	C
ATOM	1576	C	ALA	200	17.016	74.279	0.982	1.00	62.70	C
ATOM	1577	O	ALA	200	16.609	74.775	2.030	1.00	62.70	O
ATOM	1578	N	LYS	201	18.247	74.539	0.513	1.00	104.80	N
ATOM	1579	CA	LYS	201	19.165	75.321	1.293	1.00	104.80	C
ATOM	1580	CB	LYS	201	20.576	75.421	0.689	1.00	104.80	C
ATOM	1581	CG	LYS	201	21.301	74.078	0.593	1.00	104.80	C
ATOM	1582	CD	LYS	201	21.444	73.347	1.926	1.00	104.80	C
ATOM	1583	CE	LYS	201	21.937	71.908	1.768	1.00	104.80	C
ATOM	1584	NZ	LYS	201	22.167	71.307	3.098	1.00	104.80	N
ATOM	1585	C	LYS	201	18.642	76.706	1.404	1.00	104.80	C
ATOM	1586	O	LYS	201	18.809	77.354	2.435	1.00	104.80	O
ATOM	1587	N	ILE	202	18.014	77.208	0.325	1.00	131.08	N
ATOM	1588	CA	ILE	202	17.545	78.556	0.368	1.00	131.08	C
ATOM	1589	CB	ILE	202	17.091	79.112	-0.959	1.00	131.08	C
ATOM	1590	CG1	ILE	202	15.932	78.329	-1.587	1.00	131.08	C
ATOM	1591	CG2	ILE	202	18.333	79.218	-1.854	1.00	131.08	C
ATOM	1592	CD1	ILE	202	15.358	79.016	-2.825	1.00	131.08	C
ATOM	1593	C	ILE	202	16.481	78.670	1.404	1.00	131.08	C
ATOM	1594	O	ILE	202	16.465	79.621	2.180	1.00	131.08	O
ATOM	1595	N	LEU	203	15.569	77.690	1.465	1.00	170.45	N
ATOM	1596	CA	LEU	203	14.545	77.739	2.450	1.00	170.45	C
ATOM	1597	CB	LEU	203	13.534	76.603	2.278	1.00	170.45	C
ATOM	1598	CG	LEU	203	12.317	76.725	3.201	1.00	170.45	C
ATOM	1599	CD1	LEU	203	11.560	78.041	2.961	1.00	170.45	C
ATOM	1600	CD2	LEU	203	11.414	75.501	3.036	1.00	170.45	C
ATOM	1601	C	LEU	203	15.219	77.617	3.778	1.00	170.45	C
ATOM	1602	O	LEU	203	14.810	78.256	4.737	1.00	170.45	O
ATOM	1603	N	SER	204	16.295	76.812	3.873	1.00	42.67	N
ATOM	1604	CA	SER	204	16.978	76.611	5.125	1.00	42.67	C
ATOM	1605	CB	SER	204	18.249	75.754	4.971	1.00	42.67	C
ATOM	1606	OG	SER	204	17.928	74.465	4.467	1.00	42.67	O
ATOM	1607	C	SER	204	17.409	77.943	5.666	1.00	42.67	C
ATOM	1608	O	SER	204	17.200	78.241	6.842	1.00	42.67	O
ATOM	1609	N	SER	205	18.025	78.792	4.824	1.00	31.53	N
ATOM	1610	CA	SER	205	18.445	80.078	5.302	1.00	31.53	C
ATOM	1611	CB	SER	205	19.184	80.898	4.237	1.00	31.53	C
ATOM	1612	OG	SER	205	18.296	81.212	3.175	1.00	31.53	O
ATOM	1613	C	SER	205	17.200	80.824	5.647	1.00	31.53	C
ATOM	1614	O	SER	205	17.159	81.606	6.595	1.00	31.53	O
ATOM	1615	N	PHE	206	16.129	80.552	4.886	1.00	70.72	N
ATOM	1616	CA	PHE	206	14.865	81.204	5.053	1.00	70.72	C
ATOM	1617	CB	PHE	206	13.812	80.715	4.045	1.00	70.72	C
ATOM	1618	CG	PHE	206	12.557	81.489	4.257	1.00	70.72	C
ATOM	1619	CD1	PHE	206	12.443	82.764	3.756	1.00	70.72	C
ATOM	1620	CD2	PHE	206	11.494	80.941	4.937	1.00	70.72	C
ATOM	1621	CE1	PHE	206	11.290	83.489	3.937	1.00	70.72	C

ATOM	1622	CE2	PHE	206	10.337	81.662	5.121	1.00	70.72	C
ATOM	1623	CZ	PHE	206	10.234	82.938	4.622	1.00	70.72	C
ATOM	1624	C	PHE	206	14.368	80.890	6.431	1.00	70.72	C
ATOM	1625	O	PHE	206	13.738	81.730	7.070	1.00	70.72	O
ATOM	1626	N	THR	207	14.617	79.655	6.914	1.00	48.64	N
ATOM	1627	CA	THR	207	14.187	79.236	8.215	1.00	48.64	C
ATOM	1628	CB	THR	207	14.604	77.828	8.550	1.00	48.64	C
ATOM	1629	OG1	THR	207	14.038	76.906	7.631	1.00	48.64	O
ATOM	1630	CG2	THR	207	14.150	77.494	9.981	1.00	48.64	C
ATOM	1631	C	THR	207	14.848	80.131	9.207	1.00	48.64	C
ATOM	1632	O	THR	207	14.209	80.637	10.127	1.00	48.64	O
ATOM	1633	N	ASP	208	16.155	80.376	9.014	1.00	94.23	N
ATOM	1634	CA	ASP	208	16.903	81.181	9.931	1.00	94.23	C
ATOM	1635	CB	ASP	208	18.365	81.351	9.479	1.00	94.23	C
ATOM	1636	CG	ASP	208	19.180	82.078	10.544	1.00	94.23	C
ATOM	1637	OD1	ASP	208	18.596	82.761	11.427	1.00	94.23	O
ATOM	1638	OD2	ASP	208	20.430	81.949	10.478	1.00	94.23	O
ATOM	1639	C	ASP	208	16.287	82.547	9.978	1.00	94.23	C
ATOM	1640	O	ASP	208	16.034	83.080	11.056	1.00	94.23	O
ATOM	1641	N	LYS	209	15.985	83.134	8.807	1.00	119.89	N
ATOM	1642	CA	LYS	209	15.432	84.457	8.769	1.00	119.89	C
ATOM	1643	CB	LYS	209	15.145	84.920	7.324	1.00	119.89	C
ATOM	1644	CG	LYS	209	14.185	86.106	7.179	1.00	119.89	C
ATOM	1645	CD	LYS	209	12.712	85.712	7.337	1.00	119.89	C
ATOM	1646	CE	LYS	209	11.740	86.889	7.312	1.00	119.89	C
ATOM	1647	NZ	LYS	209	11.553	87.427	8.676	1.00	119.89	N
ATOM	1648	C	LYS	209	14.163	84.441	9.552	1.00	119.89	C
ATOM	1649	O	LYS	209	13.864	85.378	10.292	1.00	119.89	O
ATOM	1650	N	GLU	210	13.387	83.356	9.423	1.00	92.47	N
ATOM	1651	CA	GLU	210	12.145	83.283	10.125	1.00	92.47	C
ATOM	1652	CB	GLU	210	11.374	81.986	9.839	1.00	92.47	C
ATOM	1653	CG	GLU	210	10.902	81.876	8.387	1.00	92.47	C
ATOM	1654	CD	GLU	210	9.887	82.978	8.114	1.00	92.47	C
ATOM	1655	OE1	GLU	210	10.330	84.111	7.791	1.00	92.47	O
ATOM	1656	OE2	GLU	210	8.661	82.701	8.219	1.00	92.47	O
ATOM	1657	C	GLU	210	12.454	83.333	11.586	1.00	92.47	C
ATOM	1658	O	GLU	210	11.742	83.976	12.354	1.00	92.47	O
ATOM	1659	N	LEU	211	13.546	82.662	11.996	1.00	68.15	N
ATOM	1660	CA	LEU	211	13.964	82.592	13.369	1.00	68.15	C
ATOM	1661	CB	LEU	211	15.242	81.751	13.551	1.00	68.15	C
ATOM	1662	CG	LEU	211	15.097	80.267	13.165	1.00	68.15	C
ATOM	1663	CD1	LEU	211	16.421	79.512	13.378	1.00	68.15	C
ATOM	1664	CD2	LEU	211	13.914	79.608	13.891	1.00	68.15	C
ATOM	1665	C	LEU	211	14.312	83.966	13.881	1.00	68.15	C
ATOM	1666	O	LEU	211	13.987	84.300	15.017	1.00	68.15	O
ATOM	1667	N	LEU	212	14.997	84.796	13.066	1.00	129.54	N
ATOM	1668	CA	LEU	212	15.465	86.090	13.490	1.00	129.54	C
ATOM	1669	CB	LEU	212	16.248	86.797	12.363	1.00	129.54	C
ATOM	1670	CG	LEU	212	16.803	88.197	12.704	1.00	129.54	C
ATOM	1671	CD1	LEU	212	15.703	89.273	12.764	1.00	129.54	C
ATOM	1672	CD2	LEU	212	17.662	88.153	13.977	1.00	129.54	C
ATOM	1673	C	LEU	212	14.295	86.945	13.854	1.00	129.54	C
ATOM	1674	O	LEU	212	14.261	87.551	14.924	1.00	129.54	O
ATOM	1675	N	ALA	213	13.282	86.987	12.977	1.00	43.48	N
ATOM	1676	CA	ALA	213	12.131	87.798	13.240	1.00	43.48	C
ATOM	1677	CB	ALA	213	11.047	87.671	12.153	1.00	43.48	C
ATOM	1678	C	ALA	213	11.547	87.284	14.518	1.00	43.48	C
ATOM	1679	O	ALA	213	11.040	88.045	15.338	1.00	43.48	O
ATOM	1680	N	TYR	214	11.624	85.956	14.705	1.00	161.79	N
ATOM	1681	CA	TYR	214	11.120	85.249	15.845	1.00	161.79	C
ATOM	1682	CB	TYR	214	11.374	83.741	15.608	1.00	161.79	C
ATOM	1683	CG	TYR	214	11.333	82.853	16.803	1.00	161.79	C
ATOM	1684	CD1	TYR	214	10.159	82.315	17.269	1.00	161.79	C
ATOM	1685	CD2	TYR	214	12.505	82.531	17.448	1.00	161.79	C
ATOM	1686	CE1	TYR	214	10.159	81.478	18.362	1.00	161.79	C
ATOM	1687	CE2	TYR	214	12.511	81.696	18.539	1.00	161.79	C
ATOM	1688	CZ	TYR	214	11.334	81.165	19.001	1.00	161.79	C
ATOM	1689	OH	TYR	214	11.336	80.304	20.120	1.00	161.79	O
ATOM	1690	C	TYR	214	11.785	85.759	17.097	1.00	161.79	C
ATOM	1691	O	TYR	214	11.114	86.076	18.077	1.00	161.79	O
ATOM	1692	N	ALA	215	13.118	85.916	17.092	1.00	42.39	N
ATOM	1693	CA	ALA	215	13.815	86.341	18.276	1.00	42.39	C
ATOM	1694	CB	ALA	215	15.338	86.382	18.070	1.00	42.39	C
ATOM	1695	C	ALA	215	13.374	87.713	18.681	1.00	42.39	C

ATOM	1696	O	ALA	215	13.195	87.990	19.866	1.00	42.39	O
ATOM	1697	N	LYS	216	13.192	88.618	17.704	1.00	145.58	N
ATOM	1698	CA	LYS	216	12.844	89.973	18.022	1.00	145.58	C
ATOM	1699	CB	LYS	216	12.806	90.868	16.781	1.00	145.58	C
ATOM	1700	CG	LYS	216	14.127	90.744	16.029	1.00	145.58	C
ATOM	1701	CD	LYS	216	15.325	90.883	16.968	1.00	145.58	C
ATOM	1702	CE	LYS	216	16.591	90.206	16.446	1.00	145.58	C
ATOM	1703	NZ	LYS	216	17.444	89.810	17.588	1.00	145.58	N
ATOM	1704	C	LYS	216	11.501	89.988	18.673	1.00	145.58	C
ATOM	1705	O	LYS	216	11.274	90.708	19.644	1.00	145.58	O
ATOM	1706	N	ALA	217	10.581	89.157	18.156	1.00	53.26	N
ATOM	1707	CA	ALA	217	9.240	89.092	18.650	1.00	53.26	C
ATOM	1708	CB	ALA	217	8.372	88.076	17.885	1.00	53.26	C
ATOM	1709	C	ALA	217	9.296	88.660	20.082	1.00	53.26	C
ATOM	1710	O	ALA	217	8.464	89.065	20.892	1.00	53.26	O
ATOM	1711	N	GLY	218	10.261	87.787	20.417	1.00	48.33	N
ATOM	1712	CA	GLY	218	10.437	87.277	21.749	1.00	48.33	C
ATOM	1713	C	GLY	218	10.839	88.356	22.729	1.00	48.33	C
ATOM	1714	O	GLY	218	10.498	88.279	23.908	1.00	48.33	O
ATOM	1715	N	ALA	219	11.671	89.333	22.313	1.00	45.12	N
ATOM	1716	CA	ALA	219	12.084	90.388	23.208	1.00	45.12	C
ATOM	1717	CB	ALA	219	13.165	91.297	22.602	1.00	45.12	C
ATOM	1718	C	ALA	219	10.910	91.255	23.534	1.00	45.12	C
ATOM	1719	O	ALA	219	10.707	91.652	24.682	1.00	45.12	O
ATOM	1720	N	VAL	220	10.105	91.573	22.504	1.00	140.55	N
ATOM	1721	CA	VAL	220	8.930	92.371	22.684	1.00	140.55	C
ATOM	1722	CB	VAL	220	8.264	92.836	21.417	1.00	140.55	C
ATOM	1723	CG1	VAL	220	7.592	91.657	20.702	1.00	140.55	C
ATOM	1724	CG2	VAL	220	7.290	93.962	21.798	1.00	140.55	C
ATOM	1725	C	VAL	220	7.996	91.524	23.480	1.00	140.55	C
ATOM	1726	O	VAL	220	6.948	91.970	23.936	1.00	140.55	O
ATOM	1727	N	ALA	221	8.285	90.214	23.513	1.00	108.97	N
ATOM	1728	CA	ALA	221	7.594	89.288	24.353	1.00	108.97	C
ATOM	1729	CB	ALA	221	7.822	87.799	24.019	1.00	108.97	C
ATOM	1730	C	ALA	221	7.979	89.524	25.799	1.00	108.97	C
ATOM	1731	O	ALA	221	7.266	89.082	26.693	1.00	108.97	O
ATOM	1732	N	GLU	222	9.199	90.042	26.091	1.00	140.41	N
ATOM	1733	CA	GLU	222	9.608	90.224	27.471	1.00	140.41	C
ATOM	1734	CB	GLU	222	11.131	90.262	27.653	1.00	140.41	C
ATOM	1735	CG	GLU	222	11.789	88.915	27.379	1.00	140.41	C
ATOM	1736	CD	GLU	222	13.192	88.964	27.957	1.00	140.41	C
ATOM	1737	OE1	GLU	222	13.520	89.975	28.635	1.00	140.41	O
ATOM	1738	OE2	GLU	222	13.948	87.980	27.741	1.00	140.41	O
ATOM	1739	C	GLU	222	9.073	91.410	28.257	1.00	140.41	C
ATOM	1740	O	GLU	222	8.281	91.230	29.179	1.00	140.41	O
ATOM	1741	N	GLU	223	9.446	92.663	27.893	1.00	254.79	N
ATOM	1742	CA	GLU	223	9.080	93.831	28.679	1.00	254.79	C
ATOM	1743	CB	GLU	223	7.572	94.131	28.696	1.00	254.79	C
ATOM	1744	CG	GLU	223	7.032	94.687	27.376	1.00	254.79	C
ATOM	1745	CD	GLU	223	7.116	93.593	26.326	1.00	254.79	C
ATOM	1746	OE1	GLU	223	8.194	93.478	25.686	1.00	254.79	O
ATOM	1747	OE2	GLU	223	6.106	92.857	26.154	1.00	254.79	O
ATOM	1748	C	GLU	223	9.544	93.672	30.111	1.00	254.79	C
ATOM	1749	O	GLU	223	10.214	92.696	30.442	1.00	254.79	O
ATOM	1750	N	VAL	224	9.241	94.669	30.989	1.00	117.77	N
ATOM	1751	CA	VAL	224	9.635	94.610	32.380	1.00	117.77	C
ATOM	1752	CB	VAL	224	9.696	95.942	33.074	1.00	117.77	C
ATOM	1753	CG1	VAL	224	9.867	95.689	34.582	1.00	117.77	C
ATOM	1754	CG2	VAL	224	10.861	96.749	32.468	1.00	117.77	C
ATOM	1755	C	VAL	224	8.710	93.706	33.146	1.00	117.77	C
ATOM	1756	O	VAL	224	7.514	93.625	32.876	1.00	117.77	O
ATOM	1757	N	LEU	225	9.334	92.827	33.952	1.00	214.26	N
ATOM	1758	CA	LEU	225	8.766	91.857	34.851	1.00	214.26	C
ATOM	1759	CB	LEU	225	9.531	90.532	34.710	1.00	214.26	C
ATOM	1760	CG	LEU	225	9.798	90.159	33.230	1.00	214.26	C
ATOM	1761	CD1	LEU	225	8.518	90.229	32.383	1.00	214.26	C
ATOM	1762	CD2	LEU	225	10.967	90.959	32.626	1.00	214.26	C
ATOM	1763	C	LEU	225	8.741	92.248	36.307	1.00	214.26	C
ATOM	1764	O	LEU	225	8.019	91.639	37.093	1.00	214.26	O
ATOM	1765	N	ALA	226	9.644	93.165	36.719	1.00	89.95	N
ATOM	1766	CA	ALA	226	9.910	93.500	38.101	1.00	89.95	C
ATOM	1767	CB	ALA	226	11.371	93.906	38.347	1.00	89.95	C
ATOM	1768	C	ALA	226	9.062	94.635	38.580	1.00	89.95	C
ATOM	1769	O	ALA	226	8.088	95.015	37.935	1.00	89.95	O



ATOM	1770	N	ALA	227	9.423	95.169	39.775	1.00	78.97	N
ATOM	1771	CA	ALA	227	8.733	96.257	40.409	1.00	78.97	C
ATOM	1772	CB	ALA	227	8.626	97.502	39.512	1.00	78.97	C
ATOM	1773	C	ALA	227	7.363	95.763	40.693	1.00	78.97	C
ATOM	1774	O	ALA	227	6.417	96.515	40.907	1.00	78.97	O
ATOM	1775	N	ILE	228	7.278	94.441	40.818	1.00	130.35	N
ATOM	1776	CA	ILE	228	6.069	93.708	40.967	1.00	130.35	C
ATOM	1777	CB	ILE	228	6.344	92.249	41.146	1.00	130.35	C
ATOM	1778	CG1	ILE	228	5.034	91.457	41.251	1.00	130.35	C
ATOM	1779	CG2	ILE	228	7.263	92.112	42.369	1.00	130.35	C
ATOM	1780	CD1	ILE	228	4.182	91.524	39.987	1.00	130.35	C
ATOM	1781	C	ILE	228	5.299	94.177	42.148	1.00	130.35	C
ATOM	1782	O	ILE	228	4.079	94.157	42.078	1.00	130.35	O
ATOM	1783	N	ARG	229	5.940	94.577	43.266	1.00	142.68	N
ATOM	1784	CA	ARG	229	5.148	94.966	44.408	1.00	142.68	C
ATOM	1785	CB	ARG	229	5.994	95.525	45.564	1.00	142.68	C
ATOM	1786	CG	ARG	229	5.157	95.952	46.772	1.00	142.68	C
ATOM	1787	CD	ARG	229	5.765	97.115	47.559	1.00	142.68	C
ATOM	1788	NE	ARG	229	7.075	96.664	48.104	1.00	142.68	N
ATOM	1789	CZ	ARG	229	8.042	97.589	48.378	1.00	142.68	C
ATOM	1790	NH1	ARG	229	7.802	98.906	48.113	1.00	142.68	N
ATOM	1791	NH2	ARG	229	9.232	97.207	48.923	1.00	142.68	N
ATOM	1792	C	ARG	229	4.243	96.079	43.985	1.00	142.68	C
ATOM	1793	O	ARG	229	3.031	96.010	44.182	1.00	142.68	O
ATOM	1794	N	THR	230	4.797	97.095	43.306	1.00	50.57	N
ATOM	1795	CA	THR	230	3.992	98.202	42.894	1.00	50.57	C
ATOM	1796	CB	THR	230	4.783	99.261	42.192	1.00	50.57	C
ATOM	1797	OG1	THR	230	5.809	99.738	43.050	1.00	50.57	O
ATOM	1798	CG2	THR	230	3.841	100.412	41.806	1.00	50.57	C
ATOM	1799	C	THR	230	2.962	97.683	41.946	1.00	50.57	C
ATOM	1800	O	THR	230	1.831	98.167	41.904	1.00	50.57	O
ATOM	1801	N	VAL	231	3.357	96.688	41.138	1.00	82.97	N
ATOM	1802	CA	VAL	231	2.511	96.101	40.135	1.00	82.97	C
ATOM	1803	CB	VAL	231	3.249	95.207	39.177	1.00	82.97	C
ATOM	1804	CG1	VAL	231	2.243	94.640	38.159	1.00	82.97	C
ATOM	1805	CG2	VAL	231	4.378	96.017	38.517	1.00	82.97	C
ATOM	1806	C	VAL	231	1.371	95.310	40.727	1.00	82.97	C
ATOM	1807	O	VAL	231	0.324	95.176	40.099	1.00	82.97	O
ATOM	1808	N	ILE	232	1.547	94.687	41.908	1.00	129.50	N
ATOM	1809	CA	ILE	232	0.503	93.900	42.498	1.00	129.50	C
ATOM	1810	CB	ILE	232	0.968	93.177	43.721	1.00	129.50	C
ATOM	1811	CG1	ILE	232	2.079	92.192	43.321	1.00	129.50	C
ATOM	1812	CG2	ILE	232	-0.247	92.532	44.403	1.00	129.50	C
ATOM	1813	CD1	ILE	232	1.663	91.227	42.210	1.00	129.50	C
ATOM	1814	C	ILE	232	-0.610	94.824	42.873	1.00	129.50	C
ATOM	1815	O	ILE	232	-1.787	94.526	42.679	1.00	129.50	O
ATOM	1816	N	ALA	233	-0.238	95.976	43.448	1.00	80.45	N
ATOM	1817	CA	ALA	233	-1.144	97.034	43.796	1.00	80.45	C
ATOM	1818	CB	ALA	233	-0.447	98.191	44.532	1.00	80.45	C
ATOM	1819	C	ALA	233	-1.712	97.572	42.512	1.00	80.45	C
ATOM	1820	O	ALA	233	-2.727	98.266	42.502	1.00	80.45	O
ATOM	1821	N	PHE	234	-0.954	97.407	41.413	1.00	102.35	N
ATOM	1822	CA	PHE	234	-1.371	97.842	40.102	1.00	102.35	C
ATOM	1823	CB	PHE	234	-0.207	97.858	39.094	1.00	102.35	C
ATOM	1824	CG	PHE	234	-0.614	98.704	37.934	1.00	102.35	C
ATOM	1825	CD1	PHE	234	-0.615	100.075	38.057	1.00	102.35	C
ATOM	1826	CD2	PHE	234	-0.969	98.149	36.727	1.00	102.35	C
ATOM	1827	CE1	PHE	234	-0.980	100.881	37.005	1.00	102.35	C
ATOM	1828	CE2	PHE	234	-1.335	98.951	35.668	1.00	102.35	C
ATOM	1829	CZ	PHE	234	-1.342	100.319	35.806	1.00	102.35	C
ATOM	1830	C	PHE	234	-2.459	96.944	39.565	1.00	102.35	C
ATOM	1831	O	PHE	234	-3.438	97.434	38.996	1.00	102.35	O
ATOM	1832	N	GLY	235	-2.318	95.607	39.753	1.00	98.60	N
ATOM	1833	CA	GLY	235	-3.297	94.643	39.314	1.00	98.60	C
ATOM	1834	C	GLY	235	-2.656	93.498	38.601	1.00	98.60	C
ATOM	1835	O	GLY	235	-2.780	92.342	39.009	1.00	98.60	O
ATOM	1836	N	GLY	236	-1.923	93.784	37.526	1.00	112.17	N
ATOM	1837	CA	GLY	236	-1.304	92.737	36.796	1.00	112.17	C
ATOM	1838	C	GLY	236	-1.573	93.142	35.420	1.00	112.17	C
ATOM	1839	O	GLY	236	-2.743	93.268	35.049	1.00	112.17	O
ATOM	1840	N	GLN	237	-0.487	93.363	34.653	1.00	156.37	N
ATOM	1841	CA	GLN	237	-0.686	93.839	33.331	1.00	156.37	C
ATOM	1842	CB	GLN	237	0.644	93.947	32.567	1.00	156.37	C
ATOM	1843	CG	GLN	237	1.785	94.598	33.362	1.00	156.37	C

ATOM	1844	CD	GLN	237	1.364	95.973	33.857	1.00156.37	C
ATOM	1845	OE1	GLN	237	0.381	96.109	34.584	1.00156.37	O
ATOM	1846	NE2	GLN	237	2.133	97.023	33.463	1.00156.37	N
ATOM	1847	C	GLN	237	-1.495	92.727	32.718	1.00156.37	C
ATOM	1848	O	GLN	237	-2.669	92.902	32.395	1.00156.37	O
ATOM	1849	N	LYS	238	-0.882	91.525	32.695	1.00202.55	N
ATOM	1850	CA	LYS	238	-1.403	90.232	32.357	1.00202.55	C
ATOM	1851	CB	LYS	238	-2.576	89.835	33.264	1.00202.55	C
ATOM	1852	CG	LYS	238	-2.195	89.726	34.744	1.00202.55	C
ATOM	1853	CD	LYS	238	-3.394	89.625	35.691	1.00202.55	C
ATOM	1854	CE	LYS	238	-4.265	90.884	35.720	1.00202.55	C
ATOM	1855	NZ	LYS	238	-4.988	91.029	34.436	1.00202.55	N
ATOM	1856	C	LYS	238	-1.840	90.152	30.929	1.00202.55	C
ATOM	1857	O	LYS	238	-1.676	89.111	30.298	1.00202.55	O
ATOM	1858	N	LYS	239	-2.491	91.218	30.430	1.00162.74	N
ATOM	1859	CA	LYS	239	-2.906	91.408	29.074	1.00162.74	C
ATOM	1860	CB	LYS	239	-4.155	92.292	28.960	1.00162.74	C
ATOM	1861	CG	LYS	239	-4.537	92.567	27.511	1.00162.74	C
ATOM	1862	CD	LYS	239	-4.868	91.300	26.729	1.00162.74	C
ATOM	1863	CE	LYS	239	-5.166	91.564	25.254	1.00162.74	C
ATOM	1864	NZ	LYS	239	-5.376	90.282	24.549	1.00162.74	N
ATOM	1865	C	LYS	239	-1.837	92.037	28.239	1.00162.74	C
ATOM	1866	O	LYS	239	-1.716	91.710	27.066	1.00162.74	O
ATOM	1867	N	GLU	240	-1.076	93.015	28.781	1.00114.33	N
ATOM	1868	CA	GLU	240	-0.084	93.629	27.938	1.00114.33	C
ATOM	1869	CB	GLU	240	0.662	94.815	28.574	1.00114.33	C
ATOM	1870	CG	GLU	240	-0.090	96.147	28.497	1.00114.33	C
ATOM	1871	CD	GLU	240	-0.929	96.332	29.749	1.00114.33	C
ATOM	1872	OE1	GLU	240	-1.293	95.301	30.374	1.00114.33	O
ATOM	1873	OE2	GLU	240	-1.210	97.509	30.101	1.00114.33	O
ATOM	1874	C	GLU	240	0.925	92.584	27.619	1.00114.33	C
ATOM	1875	O	GLU	240	1.295	92.406	26.460	1.00114.33	O
ATOM	1876	N	LEU	241	1.378	91.844	28.649	1.00181.35	N
ATOM	1877	CA	LEU	241	2.365	90.829	28.423	1.00181.35	C
ATOM	1878	CB	LEU	241	2.894	90.136	29.695	1.00181.35	C
ATOM	1879	CG	LEU	241	1.861	90.029	30.824	1.00181.35	C
ATOM	1880	CD1	LEU	241	2.305	89.049	31.918	1.00181.35	C
ATOM	1881	CD2	LEU	241	1.621	91.417	31.423	1.00181.35	C
ATOM	1882	C	LEU	241	1.799	89.754	27.552	1.00181.35	C
ATOM	1883	O	LEU	241	2.416	89.382	26.561	1.00181.35	O
ATOM	1884	N	GLU	242	0.592	89.248	27.867	1.00122.11	N
ATOM	1885	CA	GLU	242	0.029	88.171	27.102	1.00122.11	C
ATOM	1886	CB	GLU	242	-1.330	87.728	27.679	1.00122.11	C
ATOM	1887	CG	GLU	242	-1.945	86.479	27.045	1.00122.11	C
ATOM	1888	CD	GLU	242	-2.987	86.91			

ATOM	1918	CB	ASN	245	3.254	86.598	25.218	1.00118.55	C
ATOM	1919	CG	ASN	245	4.044	86.982	26.445	1.00118.55	C
ATOM	1920	OD1	ASN	245	3.935	86.354	27.498	1.00118.55	O
ATOM	1921	ND2	ASN	245	4.870	88.044	26.300	1.00118.55	N
ATOM	1922	C	ASN	245	3.045	86.686	22.889	1.00118.55	C
ATOM	1923	O	ASN	245	3.705	86.427	21.890	1.00118.55	O
ATOM	1924	N	LYS	246	1.746	86.366	23.014	1.00131.34	N
ATOM	1925	CA	LYS	246	1.034	85.501	22.123	1.00131.34	C
ATOM	1926	CB	LYS	246	-0.368	85.178	22.668	1.00131.34	C
ATOM	1927	CG	LYS	246	-0.929	83.837	22.198	1.00131.34	C
ATOM	1928	CD	LYS	246	-1.987	83.285	23.157	1.00131.34	C
ATOM	1929	CE	LYS	246	-2.356	81.821	22.908	1.00131.34	C
ATOM	1930	NZ	LYS	246	-2.946	81.232	24.133	1.00131.34	N
ATOM	1931	C	LYS	246	0.945	86.156	20.791	1.00131.34	C
ATOM	1932	O	LYS	246	0.849	85.473	19.776	1.00131.34	O
ATOM	1933	N	ASN	247	0.928	87.502	20.750	1.00 93.04	N
ATOM	1934	CA	ASN	247	0.797	88.123	19.468	1.00 93.04	C
ATOM	1935	CB	ASN	247	0.676	89.650	19.545	1.00 93.04	C
ATOM	1936	CG	ASN	247	0.358	90.129	18.136	1.00 93.04	C
ATOM	1937	OD1	ASN	247	1.251	90.488	17.372	1.00 93.04	O
ATOM	1938	ND2	ASN	247	-0.951	90.103	17.771	1.00 93.04	N
ATOM	1939	C	ASN	247	1.976	87.796	18.602	1.00 93.04	C
ATOM	1940	O	ASN	247	1.833	87.091	17.605	1.00 93.04	O
ATOM	1941	N	LEU	248	3.189	88.244	18.995	1.00113.99	N
ATOM	1942	CA	LEU	248	4.361	88.024	18.199	1.00113.99	C
ATOM	1943	CB	LEU	248	5.608	88.725	18.766	1.00113.99	C
ATOM	1944	CG	LEU	248	5.538	90.263	18.703	1.00113.99	C
ATOM	1945	CD1	LEU	248	5.549	90.758	17.248	1.00113.99	C
ATOM	1946	CD2	LEU	248	4.347	90.812	19.507	1.00113.99	C
ATOM	1947	C	LEU	248	4.639	86.559	18.176	1.00113.99	C
ATOM	1948	O	LEU	248	4.937	85.997	17.124	1.00113.99	O
ATOM	1949	N	GLU	249	4.517	85.889	19.338	1.00115.95	N
ATOM	1950	CA	GLU	249	4.842	84.496	19.380	1.00115.95	C
ATOM	1951	CB	GLU	249	4.629	83.800	20.735	1.00115.95	C
ATOM	1952	CG	GLU	249	5.769	83.975	21.734	1.00115.95	C
ATOM	1953	CD	GLU	249	5.621	82.861	22.763	1.00115.95	C
ATOM	1954	OE1	GLU	249	4.579	82.839	23.469	1.00115.95	O
ATOM	1955	OE2	GLU	249	6.543	82.005	22.842	1.00115.95	O
ATOM	1956	C	GLU	249	3.990	83.757	18.437	1.00115.95	C
ATOM	1957	O	GLU	249	4.543	83.029	17.641	1.00115.95	O
ATOM	1958	N	GLU	250	2.659	83.940	18.450	1.00114.37	N
ATOM	1959	CA	GLU	250	1.776	83.180	17.607	1.00114.37	C
ATOM	1960	CB	GLU	250	0.313	83.594	17.860	1.00114.37	C
ATOM	1961	CG	GLU	250	-0.764	82.589	17.458	1.00114.37	C
ATOM	1962	CD	GLU	250	-2.058	83.062	18.112	1.00114.37	C
ATOM	1963	OE1	GLU	250	-1.959	83.804	19.126	1.00114.37	O
ATOM	1964	OE2	GLU	250	-3.157	82.694	17.617	1.00114.37	O
ATOM	1965	C	GLU	250	2.123	83.475	16.183	1.00114.37	C
ATOM	1966	O	GLU	250	2.212	82.562	15.363	1.00114.37	O
ATOM	1967	N	ALA	251	2.381	84.758	15.861	1.00 76.50	N
ATOM	1968	CA	ALA	251	2.579	85.115	14.487	1.00 76.50	C
ATOM	1969	CB	ALA	251	2.853	86.616	14.309	1.00 76.50	C
ATOM	1970	C	ALA	251	3.748	84.376	13.925	1.00 76.50	C
ATOM	1971	O	ALA	251	3.603	83.617	12.971	1.00 76.50	O
ATOM	1972	N	LYS	252	4.920	84.525	14.556	1.00186.60	N
ATOM	1973	CA	LYS	252	6.135	83.889	14.153	1.00186.60	C
ATOM	1974	CB	LYS	252	7.341	84.373	14.970	1.00186.60	C
ATOM	1975	CG	LYS	252	7.441	85.895	15.083	1.00186.60	C
ATOM	1976	CD	LYS	252	7.439	86.632	13.745	1.00186.60	C
ATOM	1977	CE	LYS	252	7.564	88.150	13.893	1.00186.60	C
ATOM	1978	NZ	LYS	252	6.439	88.678	14.694	1.00186.60	N
ATOM	1979	C	LYS	252	5.958	82.446	14.473	1.00186.60	C
ATOM	1980	O	LYS	252	6.764	81.616	14.076	1.00186.60	O
ATOM	1981	N	ARG	253	4.994	82.104	15.336	1.00195.15	N
ATOM	1982	CA	ARG	253	4.872	80.724	15.683	1.00195.15	C
ATOM	1983	CB	ARG	253	3.730	80.347	16.649	1.00195.15	C
ATOM	1984	CG	ARG	253	4.046	80.403	18.148	1.00195.15	C
ATOM	1985	CD	ARG	253	5.356	79.726	18.559	1.00195.15	C
ATOM	1986	NE	ARG	253	6.155	80.733	19.313	1.00195.15	N
ATOM	1987	CZ	ARG	253	6.983	81.595	18.653	1.00195.15	C
ATOM	1988	NH1	ARG	253	7.098	81.523	17.294	1.00195.15	N
ATOM	1989	NH2	ARG	253	7.688	82.529	19.352	1.00195.15	N
ATOM	1990	C	ARG	253	4.545	80.042	14.447	1.00195.15	C
ATOM	1991	O	ARG	253	5.430	79.466	13.851	1.00195.15	O

ATOM	1992	N	ILE	254	3.318	80.265	13.951	1.00128.81	N
ATOM	1993	CA	ILE	254	2.838	79.644	12.768	1.00128.81	C
ATOM	1994	CB	ILE	254	1.415	80.001	12.447	1.00128.81	C
ATOM	1995	CG1	ILE	254	1.269	81.512	12.201	1.00128.81	C
ATOM	1996	CG2	ILE	254	0.529	79.463	13.580	1.00128.81	C
ATOM	1997	CD1	ILE	254	-0.085	81.902	11.614	1.00128.81	C
ATOM	1998	C	ILE	254	3.697	80.106	11.650	1.00128.81	C
ATOM	1999	O	ILE	254	3.881	79.356	10.706	1.00128.81	O
ATOM	2000	N	GLY	255	4.173	81.370	11.677	1.00 65.64	N
ATOM	2001	CA	GLY	255	4.973	81.901	10.597	1.00 65.64	C
ATOM	2002	C	GLY	255	6.321	81.241	10.465	1.00 65.64	C
ATOM	2003	O	GLY	255	6.658	80.718	9.406	1.00 65.64	O
ATOM	2004	N	ILE	256	7.118	81.238	11.550	1.00184.78	N
ATOM	2005	CA	ILE	256	8.432	80.656	11.639	1.00184.78	C
ATOM	2006	CB	ILE	256	9.143	80.857	12.960	1.00184.78	C
ATOM	2007	CG1	ILE	256	10.680	80.882	12.807	1.00184.78	C
ATOM	2008	CG2	ILE	256	8.710	79.710	13.893	1.00184.78	C
ATOM	2009	CD1	ILE	256	11.336	79.564	12.395	1.00184.78	C
ATOM	2010	C	ILE	256	8.165	79.218	11.522	1.00184.78	C
ATOM	2011	O	ILE	256	9.084	78.444	11.336	1.00184.78	O
ATOM	2012	N	LYS	257	6.939	78.817	11.879	1.00181.96	N
ATOM	2013	CA	LYS	257	6.454	77.482	11.743	1.00181.96	C
ATOM	2014	CB	LYS	257	5.438	76.995	12.778	1.00181.96	C
ATOM	2015	CG	LYS	257	6.217	76.852	14.087	1.00181.96	C
ATOM	2016	CD	LYS	257	5.403	76.753	15.357	1.00181.96	C
ATOM	2017	CE	LYS	257	6.234	76.439	16.605	1.00181.96	C
ATOM	2018	NZ	LYS	257	7.125	77.574	16.932	1.00181.96	N
ATOM	2019	C	LYS	257	6.026	77.206	10.352	1.00181.96	C
ATOM	2020	O	LYS	257	5.679	76.077	10.040	1.00181.96	O
ATOM	2021	N	LYS	258	5.844	78.240	9.524	1.00122.55	N
ATOM	2022	CA	LYS	258	5.585	78.035	8.138	1.00122.55	C
ATOM	2023	CB	LYS	258	5.170	79.307	7.391	1.00122.55	C
ATOM	2024	CG	LYS	258	5.024	79.083	5.886	1.00122.55	C
ATOM	2025	CD	LYS	258	4.278	80.206	5.168	1.00122.55	C
ATOM	2026	CE	LYS	258	4.624	80.310	3.681	1.00122.55	C
ATOM	2027	NZ	LYS	258	4.304	79.044	2.987	1.00122.55	N
ATOM	2028	C	LYS	258	6.902	77.619	7.644	1.00122.55	C
ATOM	2029	O	LYS	258	7.009	76.819	6.724	1.00122.55	O
ATOM	2030	N	ALA	259	7.927	78.268	8.224	1.00 88.25	N
ATOM	2031	CA	ALA	259	9.311	77.974	8.071	1.00 88.25	C
ATOM	2032	CB	ALA	259	10.228	79.029	8.705	1.00 88.25	C
ATOM	2033	C	ALA	259	9.594	76.678	8.766	1.00 88.25	C
ATOM	2034	O	ALA	259	10.482	75.963	8.332	1.00 88.25	O
ATOM	2035	N	ILE	260	8.946	76.370	9.917	1.00197.16	N
ATOM	2036	CA	ILE	260	9.302	75.164	10.610	1.00197.16	C
ATOM	2037	CB	ILE	260	8.926	74.981	12.052	1.00197.16	C
ATOM	2038	CG1	ILE	260	7.434	74.774	12.298	1.00197.16	C
ATOM	2039	CG2	ILE	260	9.533	76.160	12.814	1.00197.16	C
ATOM	2040	CD1	ILE	260	7.180	74.112	13.652	1.00197.16	C
ATOM	2041	C	ILE	260	8.706	74.062	9.856	1.00197.16	C
ATOM	2042	O	ILE	260	9.359	73.075	9.556	1.00197.16	O
ATOM	2043	N	THR	261	7.435	74.270	9.496	1.00185.03	N
ATOM	2044	CA	THR	261	6.643	73.410	8.692	1.00185.03	C
ATOM	2045	CB	THR	261	5.183	73.782	8.631	1.00185.03	C
ATOM	2046	CG1	THR	261	4.631	73.745	9.938	1.00185.03	O
ATOM	2047	CG2	THR	261	4.420	72.779	7.751	1.00185.03	C
ATOM	2048	C	THR	261	7.264	73.509	7.348	1.00185.03	C
ATOM	2049	O	THR	261	6.816	72.842	6.432	1.00185.03	O
ATOM	2050	N	ALA	262	8.117	74.534	7.149	1.00112.99	N
ATOM	2051	CA	ALA	262	8.995	74.740	6.024	1.00112.99	C
ATOM	2052	CB	ALA	262	9.486	76.171	5.779	1.00112.99	C
ATOM	2053	C	ALA	262	10.227	73.908	6.136	1.00112.99	C
ATOM	2054	O	ALA	262	10.896	73.698	5.135	1.00112.99	O
ATOM	2055	N	ASN	263	10.690	73.611	7.366	1.00 76.26	N
ATOM	2056	CA	ASN	263	11.801	72.736	7.546	1.00 76.26	C
ATOM	2057	CB	ASN	263	12.321	72.683	8.989	1.00 76.26	C
ATOM	2058	CG	ASN	263	13.559	71.797	8.995	1.00 76.26	C
ATOM	2059	OD1	ASN	263	13.618	70.777	8.309	1.00 76.26	O
ATOM	2060	ND2	ASN	263	14.583	72.204	9.792	1.00 76.26	N
ATOM	2061	C	ASN	263	11.159	71.442	7.247	1.00 76.26	C
ATOM	2062	O	ASN	263	11.703	70.535	6.626	1.00 76.26	O
ATOM	2063	N	ILE	264	9.908	71.356	7.702	1.00125.58	N
ATOM	2064	CA	ILE	264	9.147	70.193	7.460	1.00125.58	C
ATOM	2065	CB	ILE	264	7.778	70.280	8.070	1.00125.58	C

ATOM	2066	CG1	ILE	264	7.871	70.351	9.606	1.00125.58	C
ATOM	2067	CG2	ILE	264	6.955	69.094	7.548	1.00125.58	C
ATOM	2068	CD1	ILE	264	8.535	69.124	10.232	1.00125.58	C
ATOM	2069	C	ILE	264	8.994	70.150	5.988	1.00125.58	C
ATOM	2070	O	ILE	264	9.329	69.174	5.325	1.00125.58	O
ATOM	2071	N	SER	265	8.583	71.293	5.436	1.00 83.79	N
ATOM	2072	CA	SER	265	8.324	71.431	4.047	1.00 83.79	C
ATOM	2073	CB	SER	265	7.778	72.808	3.625	1.00 83.79	C
ATOM	2074	OG	SER	265	6.388	72.904	3.902	1.00 83.79	O
ATOM	2075	C	SER	265	9.617	71.236	3.360	1.00 83.79	C
ATOM	2076	O	SER	265	9.635	71.056	2.148	1.00 83.79	O
ATOM	2077	N	ILE	266	10.731	71.373	4.106	1.00165.41	N
ATOM	2078	CA	ILE	266	12.023	71.197	3.520	1.00165.41	C
ATOM	2079	CB	ILE	266	13.214	71.854	4.178	1.00165.41	C
ATOM	2080	CG1	ILE	266	14.210	72.235	3.066	1.00165.41	C
ATOM	2081	CG2	ILE	266	13.923	70.862	5.114	1.00165.41	C
ATOM	2082	CD1	ILE	266	13.681	73.293	2.097	1.00165.41	C
ATOM	2083	C	ILE	266	12.266	69.740	3.403	1.00165.41	C
ATOM	2084	O	ILE	266	12.864	69.287	2.432	1.00165.41	O
ATOM	2085	N	GLY	267	11.824	68.972	4.421	1.00 51.16	N
ATOM	2086	CA	GLY	267	11.988	67.553	4.343	1.00 51.16	C
ATOM	2087	C	GLY	267	11.234	67.212	3.105	1.00 51.16	C
ATOM	2088	O	GLY	267	11.654	66.400	2.282	1.00 51.16	O
ATOM	2089	N	ALA	268	10.098	67.910	2.945	1.00 61.50	N
ATOM	2090	CA	ALA	268	9.272	67.791	1.793	1.00 61.50	C
ATOM	2091	CB	ALA	268	8.004	68.658	1.882	1.00 61.50	C
ATOM	2092	C	ALA	268	10.057	68.241	0.596	1.00 61.50	C
ATOM	2093	O	ALA	268	9.894	67.683	-0.482	1.00 61.50	O
ATOM	2094	N	ALA	269	10.892	69.294	0.715	1.00 87.35	N
ATOM	2095	CA	ALA	269	11.605	69.749	-0.444	1.00 87.35	C
ATOM	2096	CB	ALA	269	12.443	71.006	-0.164	1.00 87.35	C
ATOM	2097	C	ALA	269	12.553	68.687	-0.890	1.00 87.35	C
ATOM	2098	O	ALA	269	12.315	68.060	-1.918	1.00 87.35	O
ATOM	2099	N	PHE	270	13.531	68.329	-0.024	1.00100.87	N
ATOM	2100	CA	PHE	270	14.556	67.396	-0.396	1.00100.87	C
ATOM	2101	CB	PHE	270	15.525	66.997	0.732	1.00100.87	C
ATOM	2102	CG	PHE	270	16.625	67.992	0.835	1.00100.87	C
ATOM	2103	CD1	PHE	270	17.593	68.029	-0.142	1.00100.87	C
ATOM	2104	CD2	PHE	270	16.722	68.852	1.904	1.00100.87	C
ATOM	2105	CE1	PHE	270	18.630	68.926	-0.074	1.00100.87	C
ATOM	2106	CE2	PHE	270	17.759	69.752	1.978	1.00100.87	C
ATOM	2107	CZ	PHE	270	18.712	69.792	0.988	1.00100.87	C
ATOM	2108	C	PHE	270	13.924	66.122	-0.836	1.00100.87	C
ATOM	2109	O	PHE	270	14.396	65.528	-1.799	1.00100.87	O
ATOM	2110	N	LEU	271	12.897	65.640	-0.107	1.00 82.62	N
ATOM	2111	CA	LEU	271	12.211	64.414	-0.437	1.00 82.62	C
ATOM	2112	CB	LEU	271	11.279	63.898	0.680	1.00 82.62	C
ATOM	2113	CG	LEU	271	12.015	63.337	1.913	1.00 82.62	C
ATOM	2114	CD1	LEU	271	11.034	62.742	2.941	1.00 82.62	C
ATOM	2115	CD2	LEU	271	13.100	62.334	1.491	1.00 82.62	C
ATOM	2116	C	LEU	271	11.371	64.505	-1.688	1.00 82.62	C
ATOM	2117	O	LEU	271	11.418	63.613	-2.533	1.00 82.62	O
ATOM	2118	N	LEU	272	10.572	65.579	-1.847	1.00 70.13	N
ATOM	2119	CA	LEU	272	9.713	65.727	-2.994	1.00 70.13	C
ATOM	2120	CB	LEU	272	8.940	67.060	-2.978	1.00 70.13	C
ATOM	2121	CG	LEU	272	8.105	67.331	-4.242	1.00 70.13	C
ATOM	2122	CD1	LEU	272	7.017	66.263	-4.427	1.00 70.13	C
ATOM	2123	CD2	LEU	272	7.543	68.765	-4.247	1.00 70.13	C
ATOM	2124	C	LEU	272	10.608	65.743	-4.184	1.00 70.13	C
ATOM	2125	O	LEU	272	10.368	65.061	-5.178	1.00 70.13	O
ATOM	2126	N	ILE	273	11.685	66.533	-4.072	1.00129.06	N
ATOM	2127	CA	ILE	273	12.723	66.668	-5.049	1.00129.06	C
ATOM	2128	CB	ILE	273	13.710	67.743	-4.703	1.00129.06	C
ATOM	2129	CG1	ILE	273	13.009	69.105	-4.796	1.00129.06	C
ATOM	2130	CG2	ILE	273	14.936	67.607	-5.623	1.00129.06	C
ATOM	2131	CD1	ILE	273	12.433	69.361	-6.188	1.00129.06	C
ATOM	2132	C	ILE	273	13.436	65.365	-5.136	1.00129.06	C
ATOM	2133	O	ILE	273	14.065	65.056	-6.145	1.00129.06	O
ATOM	2134	N	TYR	274	13.451	64.611	-4.026	1.00179.81	N
ATOM	2135	CA	TYR	274	14.101	63.343	-4.026	1.00179.81	C
ATOM	2136	CB	TYR	274	14.079	62.679	-2.636	1.00179.81	C
ATOM	2137	CG	TYR	274	14.385	61.226	-2.763	1.00179.81	C
ATOM	2138	CD1	TYR	274	15.666	60.763	-2.962	1.00179.81	C
ATOM	2139	CD2	TYR	274	13.356	60.318	-2.697	1.00179.81	C

ATOM	2140	CE1	TYR	274	15.911	59.413	-3.077	1.00179.81	C
ATOM	2141	CE2	TYR	274	13.588	58.968	-2.809	1.00179.81	C
ATOM	2142	CZ	TYR	274	14.870	58.515	-2.999	1.00179.81	C
ATOM	2143	OH	TYR	274	15.112	57.130	-3.116	1.00179.81	O
ATOM	2144	C	TYR	274	13.387	62.495	-5.018	1.00179.81	C
ATOM	2145	O	TYR	274	13.999	62.009	-5.953	1.00179.81	O
ATOM	2146	N	ALA	275	12.054	62.389	-4.926	1.00 79.24	N
ATOM	2147	CA	ALA	275	11.304	61.569	-5.829	1.00 79.24	C
ATOM	2148	CB	ALA	275	9.795	61.563	-5.529	1.00 79.24	C
ATOM	2149	C	ALA	275	11.497	62.105	-7.205	1.00 79.24	C
ATOM	2150	O	ALA	275	11.450	61.344	-8.169	1.00 79.24	O
ATOM	2151	N	SER	276	11.668	63.438	-7.334	1.00 93.00	N
ATOM	2152	CA	SER	276	11.858	63.998	-8.638	1.00 93.00	C
ATOM	2153	CB	SER	276	11.973	65.535	-8.692	1.00 93.00	C
ATOM	2154	OG	SER	276	13.302	65.955	-8.429	1.00 93.00	O
ATOM	2155	C	SER	276	13.128	63.425	-9.169	1.00 93.00	C
ATOM	2156	O	SER	276	13.233	63.172	-10.368	1.00 93.00	O
ATOM	2157	N	TYR	277	14.112	63.168	-8.279	1.00243.60	N
ATOM	2158	CA	TYR	277	15.362	62.615	-8.703	1.00243.60	C
ATOM	2159	CB	TYR	277	16.366	62.310	-7.564	1.00243.60	C
ATOM	2160	CG	TYR	277	16.592	60.844	-7.302	1.00243.60	C
ATOM	2161	CD1	TYR	277	15.798	60.088	-6.473	1.00243.60	C
ATOM	2162	CD2	TYR	277	17.659	60.205	-7.885	1.00243.60	C
ATOM	2163	CE1	TYR	277	16.015	58.757	-6.227	1.00243.60	C
ATOM	2164	CE2	TYR	277	17.892	58.871	-7.645	1.00243.60	C
ATOM	2165	CZ	TYR	277	17.080	58.141	-6.820	1.00243.60	C
ATOM	2166	OH	TYR	277	17.338	56.773	-6.589	1.00243.60	O
ATOM	2167	C	TYR	277	14.959	61.334	-9.319	1.00243.60	C
ATOM	2168	O	TYR	277	15.351	61.060	-10.439	1.00243.60	O
ATOM	2169	N	ALA	278	14.056	60.586	-8.661	1.00 60.49	N
ATOM	2170	CA	ALA	278	13.605	59.330	-9.174	1.00 60.49	C
ATOM	2171	CB	ALA	278	12.517	58.691	-8.291	1.00 60.49	C
ATOM	2172	C	ALA	278	13.019	59.578	-10.533	1.00 60.49	C
ATOM	2173	O	ALA	278	13.223	58.789	-11.453	1.00 60.49	O
ATOM	2174	N	LEU	279	12.295	60.699	-10.705	1.00113.36	N
ATOM	2175	CA	LEU	279	11.635	60.995	-11.947	1.00113.36	C
ATOM	2176	CB	LEU	279	11.069	62.424	-11.865	1.00113.36	C
ATOM	2177	CG	LEU	279	10.291	62.945	-13.077	1.00113.36	C
ATOM	2178	CD1	LEU	279	8.860	62.392	-13.080	1.00113.36	C
ATOM	2179	CD2	LEU	279	10.353	64.479	-13.152	1.00113.36	C
ATOM	2180	C	LEU	279	12.632	60.999	-13.077	1.00113.36	C
ATOM	2181	O	LEU	279	12.678	60.084	-13.893	1.00113.36	O
ATOM	2182	N	ALA	280	13.553	61.974	-13.094	1.00 65.64	N
ATOM	2183	CA	ALA	280	14.489	62.071	-14.178	1.00 65.64	C
ATOM	2184	CB	ALA	280	15.441	63.271	-14.039	1.00 65.64	C
ATOM	2185	C	ALA	280	15.305	60.837	-14.143	1.00 65.64	C
ATOM	2186	O	ALA	280	15.739	60.337	-15.179	1.00 65.64	O
ATOM	2187	N	PHE	281	15.530	60.329	-12.921	1.00162.41	N
ATOM	2188	CA	PHE	281	16.361	59.189	-12.701	1.00162.41	C
ATOM	2189	CB	PHE	281	16.163	58.625	-11.291	1.00162.41	C
ATOM	2190	CG	PHE	281	17.145	57.582	-10.915	1.00162.41	C
ATOM	2191	CD1	PHE	281	18.346	57.961	-10.377	1.00162.41	C
ATOM	2192	CD2	PHE	281	16.875	56.245	-11.075	1.00162.41	C
ATOM	2193	CE1	PHE	281	19.271	57.028	-9.988	1.00162.41	C
ATOM	2194	CE2	PHE	281	17.801	55.303	-10.693	1.00162.41	C
ATOM	2195	CZ	PHE	281	18.999	55.693	-10.143	1.00162.41	C
ATOM	2196	C	PHE	281	15.865	58.119	-13.589	1.00162.41	C
ATOM	2197	O	PHE	281	16.450	57.848	-14.629	1.00162.41	O
ATOM	2198	N	TRP	282	14.684	57.583	-13.270	1.00121.59	N
ATOM	2199	CA	TRP	282	14.194	56.470	-14.006	1.00121.59	C
ATOM	2200	CB	TRP	282	12.966	55.813	-13.364	1.00121.59	C
ATOM	2201	CG	TRP	282	13.321	55.163	-12.056	1.00121.59	C
ATOM	2202	CD2	TRP	282	14.368	54.192	-11.932	1.00121.59	C
ATOM	2203	CD1	TRP	282	12.835	55.379	-10.799	1.00121.59	C
ATOM	2204	NE1	TRP	282	13.515	54.596	-9.897	1.00121.59	N
ATOM	2205	CE2	TRP	282	14.462	53.862	-10.582	1.00121.59	C
ATOM	2206	CE3	TRP	282	15.187	53.629	-12.869	1.00121.59	C
ATOM	2207	CZ2	TRP	282	15.383	52.955	-10.145	1.00121.59	C
ATOM	2208	CZ3	TRP	282	16.111	52.708	-12.428	1.00121.59	C
ATOM	2209	CH2	TRP	282	16.204	52.380	-11.092	1.00121.59	C
ATOM	2210	C	TRP	282	13.851	56.867	-15.398	1.00121.59	C
ATOM	2211	O	TRP	282	14.103	56.102	-16.326	1.00121.59	O
ATOM	2212	N	TYR	283	13.257	58.060	-15.599	1.00170.67	N
ATOM	2213	CA	TYR	283	12.809	58.301	-16.937	1.00170.67	C

ATOM	2214	CB	TYR	283	11.969	59.574	-17.133	1.00170.67	C
ATOM	2215	CG	TYR	283	11.148	59.292	-18.353	1.00170.67	C
ATOM	2216	CD1	TYR	283	11.589	59.569	-19.628	1.00170.67	C
ATOM	2217	CD2	TYR	283	9.911	58.707	-18.202	1.00170.67	C
ATOM	2218	CE1	TYR	283	10.801	59.277	-20.721	1.00170.67	C
ATOM	2219	CE2	TYR	283	9.119	58.414	-19.286	1.00170.67	C
ATOM	2220	CZ	TYR	283	9.563	58.700	-20.553	1.00170.67	C
ATOM	2221	OH	TYR	283	8.757	58.400	-21.673	1.00170.67	O
ATOM	2222	C	TYR	283	13.975	58.379	-17.877	1.00170.67	C
ATOM	2223	O	TYR	283	14.051	57.618	-18.836	1.00170.67	O
ATOM	2224	N	GLY	284	14.972	59.233	-17.583	1.00 48.34	N
ATOM	2225	CA	GLY	284	16.080	59.403	-18.477	1.00 48.34	C
ATOM	2226	C	GLY	284	16.747	58.078	-18.597	1.00 48.34	C
ATOM	2227	O	GLY	284	17.339	57.761	-19.628	1.00 48.34	O
ATOM	2228	N	THR	285	16.725	57.303	-17.499	1.00 72.72	N
ATOM	2229	CA	THR	285	17.346	56.017	-17.498	1.00 72.72	C
ATOM	2230	CB	THR	285	17.366	55.344	-16.160	1.00 72.72	C
ATOM	2231	OG1	THR	285	18.187	56.066	-15.256	1.00 72.72	O
ATOM	2232	CG2	THR	285	17.888	53.910	-16.339	1.00 72.72	C
ATOM	2233	C	THR	285	16.664	55.083	-18.432	1.00 72.72	C
ATOM	2234	O	THR	285	17.315	54.459	-19.264	1.00 72.72	O
ATOM	2235	N	THR	286	15.329	54.985	-18.347	1.00123.25	N
ATOM	2236	CA	THR	286	14.641	54.014	-19.132	1.00123.25	C
ATOM	2237	CB	THR	286	13.169	53.944	-18.842	1.00123.25	C
ATOM	2238	OG1	THR	286	12.598	52.824	-19.501	1.00123.25	O
ATOM	2239	CG2	THR	286	12.483	55.245	-19.290	1.00123.25	C
ATOM	2240	C	THR	286	14.843	54.307	-20.584	1.00123.25	C
ATOM	2241	O	THR	286	15.169	53.404	-21.353	1.00123.25	O
ATOM	2242	N	LEU	287	14.708	55.584	-20.994	1.00 57.73	N
ATOM	2243	CA	LEU	287	14.818	55.886	-22.393	1.00 57.73	C
ATOM	2244	CB	LEU	287	14.708	57.389	-22.701	1.00 57.73	C
ATOM	2245	CG	LEU	287	14.827	57.706	-24.204	1.00 57.73	C
ATOM	2246	CD1	LEU	287	13.578	57.230	-24.966	1.00 57.73	C
ATOM	2247	CD2	LEU	287	15.175	59.181	-24.454	1.00 57.73	C
ATOM	2248	C	LEU	287	16.180	55.467	-22.844	1.00 57.73	C
ATOM	2249	O	LEU	287	16.336	54.760	-23.836	1.00 57.73	O
ATOM	2250	N	VAL	288	17.202	55.863	-22.072	1.00113.20	N
ATOM	2251	CA	VAL	288	18.576	55.600	-22.380	1.00113.20	C
ATOM	2252	CB	VAL	288	19.535	56.464	-21.599	1.00113.20	C
ATOM	2253	CG1	VAL	288	20.976	56.227	-22.096	1.00113.20	C
ATOM	2254	CG2	VAL	288	19.085	57.927	-21.741	1.00113.20	C
ATOM	2255	C	VAL	288	18.846	54.135	-22.165	1.00113.20	C
ATOM	2256	O	VAL	288	19.985	53.697	-22.277	1.00113.20	O
ATOM	2257	N	LEU	289	17.891	53.390	-21.572	1.00160.38	N
ATOM	2258	CA	LEU	289	18.045	51.965	-21.449	1.00160.38	C
ATOM	2259	CB	LEU	289	17.340	51.395	-20.204	1.00160.38	C
ATOM	2260	CG	LEU	289	17.928	50.057	-19.700	1.00160.38	C
ATOM	2261	CD1	LEU	289	17.854	48.915	-20.722	1.00160.38	C
ATOM	2262	CD2	LEU	289	19.358	50.277	-19.187	1.00160.38	C
ATOM	2263	C	LEU	289	17.501	51.275	-22.669	1.00160.38	C
ATOM	2264	O	LEU	289	18.009	50.243	-23.095	1.00160.38	O
ATOM	2265	N	SER	290	16.384	51.790	-23.226	1.00 66.45	N
ATOM	2266	CA	SER	290	15.746	51.160	-24.346	1.00 66.45	C
ATOM	2267	CB	SER	290	14.363	51.764	-24.654	1.00 66.45	C
ATOM	2268	OG	SER	290	13.490	51.571	-23.551	1.00 66.45	O
ATOM	2269	C	SER	290	16.582	51.302	-25.581	1.00 66.45	C
ATOM	2270	O	SER	290	16.805	50.325	-26.296	1.00 66.45	O
ATOM	2271	N	GLY	291	16.997	52.543	-25.918	1.00 67.96	N
ATOM	2272	CA	GLY	291	17.751	52.702	-27.131	1.00 67.96	C
ATOM	2273	C	GLY	291	19.166	52.198	-27.058	1.00 67.96	C
ATOM	2274	O	GLY	291	19.544	51.245	-27.731	1.00 67.96	O
ATOM	2275	N	GLU	292	19.974	52.780	-26.158	1.00137.87	N
ATOM	2276	CA	GLU	292	21.381	52.498	-26.103	1.00137.87	C
ATOM	2277	CB	GLU	292	22.214	53.784	-26.273	1.00137.87	C
ATOM	2278	CG	GLU	292	23.731	53.605	-26.203	1.00137.87	C
ATOM	2279	CD	GLU	292	24.361	54.992	-26.117	1.00137.87	C
ATOM	2280	OE1	GLU	292	23.752	55.876	-25.455	1.00137.87	O
ATOM	2281	OE2	GLU	292	25.458	55.186	-26.708	1.00137.87	O
ATOM	2282	C	GLU	292	21.650	51.997	-24.731	1.00137.87	C
ATOM	2283	O	GLU	292	20.721	51.964	-23.931	1.00137.87	O
ATOM	2284	N	TYR	293	22.891	51.508	-24.478	1.00110.60	N
ATOM	2285	CA	TYR	293	23.382	51.152	-23.169	1.00110.60	C
ATOM	2286	CB	TYR	293	23.765	52.427	-22.387	1.00110.60	C
ATOM	2287	CG	TYR	293	24.487	52.132	-21.116	1.00110.60	C

ATOM	2288	CD1	TYR	293	25.789	51.685	-21.145	1.00110.60	C
ATOM	2289	CD2	TYR	293	23.882	52.342	-19.898	1.00110.60	C
ATOM	2290	CE1	TYR	293	26.470	51.430	-19.978	1.00110.60	C
ATOM	2291	CE2	TYR	293	24.559	52.089	-18.727	1.00110.60	C
ATOM	2292	CZ	TYR	293	25.854	51.631	-18.766	1.00110.60	C
ATOM	2293	OH	TYR	293	26.549	51.374	-17.565	1.00110.60	O
ATOM	2294	C	TYR	293	22.320	50.391	-22.425	1.00110.60	C
ATOM	2295	O	TYR	293	22.022	50.706	-21.274	1.00110.60	O
ATOM	2296	N	SER	294	21.717	49.361	-23.057	1.00141.23	N
ATOM	2297	CA	SER	294	20.579	48.732	-22.439	1.00141.23	C
ATOM	2298	CB	SER	294	19.646	48.079	-23.471	1.00141.23	C
ATOM	2299	OG	SER	294	20.366	47.122	-24.231	1.00141.23	O
ATOM	2300	C	SER	294	20.999	47.666	-21.470	1.00141.23	C
ATOM	2301	O	SER	294	20.849	46.472	-21.728	1.00141.23	O
ATOM	2302	N	ILE	295	21.626	48.100	-20.362	1.00194.65	N
ATOM	2303	CA	ILE	295	22.048	47.320	-19.229	1.00194.65	C
ATOM	2304	CB	ILE	295	23.379	47.792	-18.722	1.00194.65	C
ATOM	2305	CG1	ILE	295	23.449	49.329	-18.764	1.00194.65	C
ATOM	2306	CG2	ILE	295	24.470	47.105	-19.560	1.00194.65	C
ATOM	2307	CD1	ILE	295	22.324	50.052	-18.042	1.00194.65	C
ATOM	2308	C	ILE	295	21.076	47.053	-18.097	1.00194.65	C
ATOM	2309	O	ILE	295	21.109	45.976	-17.504	1.00194.65	O
ATOM	2310	N	GLY	296	20.248	48.044	-17.678	1.00 79.85	N
ATOM	2311	CA	GLY	296	19.450	47.888	-16.476	1.00 79.85	C
ATOM	2312	C	GLY	296	20.422	48.149	-15.355	1.00 79.85	C
ATOM	2313	O	GLY	296	20.153	47.905	-14.179	1.00 79.85	O
ATOM	2314	N	GLN	297	21.650	48.498	-15.788	1.00175.84	N
ATOM	2315	CA	GLN	297	22.858	48.849	-15.103	1.00175.84	C
ATOM	2316	CB	GLN	297	24.134	48.318	-15.758	1.00175.84	C
ATOM	2317	CG	GLN	297	25.223	48.293	-14.696	1.00175.84	C
ATOM	2318	CD	GLN	297	24.538	47.648	-13.495	1.00175.84	C
ATOM	2319	OE1	GLN	297	24.155	46.480	-13.539	1.00175.84	O
ATOM	2320	NE2	GLN	297	24.337	48.439	-12.407	1.00175.84	N
ATOM	2321	C	GLN	297	23.023	50.308	-14.857	1.00175.84	C
ATOM	2322	O	GLN	297	23.973	50.727	-14.202	1.00175.84	O
ATOM	2323	N	VAL	298	22.172	51.160	-15.454	1.00147.32	N
ATOM	2324	CA	VAL	298	22.307	52.583	-15.305	1.00147.32	C
ATOM	2325	CB	VAL	298	21.223	53.307	-16.049	1.00147.32	C
ATOM	2326	CG1	VAL	298	21.532	54.812	-16.068	1.00147.32	C
ATOM	2327	CG2	VAL	298	21.074	52.658	-17.435	1.00147.32	C
ATOM	2328	C	VAL	298	22.177	52.830	-13.831	1.00147.32	C
ATOM	2329	O	VAL	298	22.675	53.816	-13.285	1.00147.32	O
ATOM	2330	N	LEU	299	21.524	51.877	-13.143	1.00124.92	N
ATOM	2331	CA	LEU	299	21.269	51.917	-11.744	1.00124.92	C
ATOM	2332	CB	LEU	299	20.825	50.533	-11.249	1.00124.92	C
ATOM	2333	CG	LEU	299	20.566	50.431	-9.738	1.00124.92	C
ATOM	2334	CD1	LEU	299	19.364	51.289	-9.314	1.00124.92	C
ATOM	2335	CD2	LEU	299	20.449	48.960	-9.307	1.00124.92	C
ATOM	2336	C	LEU	299	22.521	52.269	-11.008	1.00124.92	C
ATOM	2337	O	LEU	299	22.559	53.340	-10.407	1.00124.92	O
ATOM	2338	N	THR	300	23.607	51.474	-11.129	1.00 78.89	N
ATOM	2339	CA	THR	300	24.773	51.747	-10.332	1.00 78.89	C
ATOM	2340	CB	THR	300	25.907	50.820	-10.579	1.00 78.89	C
ATOM	2341	OG1	THR	300	25.494	49.520	-10.214	1.00 78.89	O
ATOM	2342	CG2	THR	300	27.117	51.253	-9.734	1.00 78.89	C
ATOM	2343	C	THR	300	25.264	53.131	-10.572	1.00 78.89	C
ATOM	2344	O	THR	300	25.614	53.830	-9.624	1.00 78.89	O
ATOM	2345	N	VAL	301	25.297	53.576	-11.835	1.00104.19	N
ATOM	2346	CA	VAL	301	25.825	54.885	-12.084	1.00104.19	C
ATOM	2347	CB	VAL	301	25.804	55.203	-13.545	1.00104.19	C
ATOM	2348	CG1	VAL	301	26.540	56.533	-13.777	1.00104.19	C
ATOM	2349	CG2	VAL	301	26.342	53.989	-14.315	1.00104.19	C
ATOM	2350	C	VAL	301	25.001	55.943	-11.396	1.00104.19	C
ATOM	2351	O	VAL	301	25.430	56.484	-10.379	1.00104.19	O
ATOM	2352	N	PHE	302	23.741	56.168	-11.844	1.00122.20	N
ATOM	2353	CA	PHE	302	22.957	57.266	-11.322	1.00122.20	C
ATOM	2354	CB	PHE	302	21.515	57.328	-11.849	1.00122.20	C
ATOM	2355	CG	PHE	302	21.415	57.917	-13.211	1.00122.20	C
ATOM	2356	CD1	PHE	302	21.749	57.181	-14.321	1.00122.20	C
ATOM	2357	CD2	PHE	302	20.941	59.201	-13.375	1.00122.20	C
ATOM	2358	CE1	PHE	302	21.639	57.731	-15.577	1.00122.20	C
ATOM	2359	CE2	PHE	302	20.829	59.755	-14.629	1.00122.20	C
ATOM	2360	CZ	PHE	302	21.182	59.018	-15.735	1.00122.20	C
ATOM	2361	C	PHE	302	22.832	57.139	-9.833	1.00122.20	C



ATOM	2362	O	PHE	302	23.092	58.091	-9.099	1.00122.20	O
ATOM	2363	N	PHE	303	22.495	55.936	-9.344	1.00117.23	N
ATOM	2364	CA	PHE	303	22.289	55.713	-7.943	1.00117.23	C
ATOM	2365	CB	PHE	303	21.937	54.235	-7.679	1.00117.23	C
ATOM	2366	CG	PHE	303	21.682	53.962	-6.235	1.00117.23	C
ATOM	2367	CD1	PHE	303	20.566	54.475	-5.611	1.00117.23	C
ATOM	2368	CD2	PHE	303	22.564	53.198	-5.503	1.00117.23	C
ATOM	2369	CE1	PHE	303	20.331	54.219	-4.280	1.00117.23	C
ATOM	2370	CE2	PHE	303	22.332	52.936	-4.173	1.00117.23	C
ATOM	2371	CZ	PHE	303	21.213	53.447	-3.560	1.00117.23	C
ATOM	2372	C	PHE	303	23.536	56.124	-7.196	1.00117.23	C
ATOM	2373	O	PHE	303	23.446	56.756	-6.144	1.00117.23	O
ATOM	2374	N	SER	304	24.733	55.786	-7.722	1.00106.17	N
ATOM	2375	CA	SER	304	25.994	56.115	-7.099	1.00106.17	C
ATOM	2376	CB	SER	304	27.224	55.592	-7.861	1.00106.17	C
ATOM	2377	OG	SER	304	27.329	54.186	-7.741	1.00106.17	O
ATOM	2378	C	SER	304	26.202	57.592	-7.030	1.00106.17	C
ATOM	2379	O	SER	304	26.664	58.116	-6.018	1.00106.17	O
ATOM	2380	N	VAL	305	25.868	58.310	-8.112	1.00 80.55	N
ATOM	2381	CA	VAL	305	26.064	59.727	-8.120	1.00 80.55	C
ATOM	2382	CB	VAL	305	25.528	60.343	-9.370	1.00 80.55	C
ATOM	2383	CG1	VAL	305	25.461	61.855	-9.159	1.00 80.55	C
ATOM	2384	CG2	VAL	305	26.432	59.925	-10.540	1.00 80.55	C
ATOM	2385	C	VAL	305	25.290	60.282	-6.968	1.00 80.55	C
ATOM	2386	O	VAL	305	25.735	61.197	-6.274	1.00 80.55	O
ATOM	2387	N	LEU	306	24.115	59.688	-6.709	1.00 95.86	N
ATOM	2388	CA	LEU	306	23.254	60.163	-5.670	1.00 95.86	C
ATOM	2389	CB	LEU	306	22.006	59.279	-5.483	1.00 95.86	C
ATOM	2390	CG	LEU	306	20.923	59.933	-4.603	1.00 95.86	C
ATOM	2391	CD1	LEU	306	20.155	61.009	-5.390	1.00 95.86	C
ATOM	2392	CD2	LEU	306	20.010	58.896	-3.933	1.00 95.86	C
ATOM	2393	C	LEU	306	24.026	60.098	-4.385	1.00 95.86	C
ATOM	2394	O	LEU	306	24.000	61.026	-3.576	1.00 95.86	O
ATOM	2395	N	ILE	307	24.793	59.010	-4.194	1.00100.13	N
ATOM	2396	CA	ILE	307	25.553	58.815	-2.993	1.00100.13	C
ATOM	2397	CB	ILE	307	26.430	57.598	-3.061	1.00100.13	C
ATOM	2398	CG1	ILE	307	25.580	56.327	-3.225	1.00100.13	C
ATOM	2399	CG2	ILE	307	27.322	57.587	-1.808	1.00100.13	C
ATOM	2400	CD1	ILE	307	24.627	56.081	-2.057	1.00100.13	C
ATOM	2401	C	ILE	307	26.444	60.007	-2.850	1.00100.13	C
ATOM	2402	O	ILE	307	26.703	60.475	-1.741	1.00100.13	O
ATOM	2403	N	GLY	308	26.942	60.526	-3.985	1.00 40.45	N
ATOM	2404	CA	GLY	308	27.844	61.640	-3.958	1.00 40.45	C
ATOM	2405	C	GLY	308	27.204	62.836	-3.316	1.00 40.45	C
ATOM	2406	O	GLY	308	27.825	63.515	-2.497	1.00 40.45	O
ATOM	2407	N	ALA	309	25.936	63.134	-3.650	1.00 54.68	N
ATOM	2408	CA	ALA	309	25.359	64.334	-3.118	1.00 54.68	C
ATOM	2409	CB	ALA	309	23.908	64.554	-3.579	1.00 54.68	C
ATOM	2410	C	ALA	309	25.329	64.255	-1.624	1.00 54.68	C
ATOM	2411	O	ALA	309	25.792	65.160	-0.928	1.00 54.68	O
ATOM	2412	N	PHE	310	24.857	63.123	-1.084	1.00 67.45	N
ATOM	2413	CA	PHE	310	24.677	63.058	0.333	1.00 67.45	C
ATOM	2414	CB	PHE	310	23.959	61.779	0.780	1.00 67.45	C
ATOM	2415	CG	PHE	310	22.600	61.923	0.182	1.00 67.45	C
ATOM	2416	CD1	PHE	310	21.614	62.619	0.844	1.00 67.45	C
ATOM	2417	CD2	PHE	310	22.322	61.397	-1.058	1.00 67.45	C
ATOM	2418	CE1	PHE	310	20.363	62.764	0.291	1.00 67.45	C
ATOM	2419	CE2	PHE	310	21.073	61.540	-1.614	1.00 67.45	C
ATOM	2420	CZ	PHE	310	20.089	62.221	-0.941	1.00 67.45	C
ATOM	2421	C	PHE	310	25.990	63.215	1.027	1.00 67.45	C
ATOM	2422	O	PHE	310	26.084	63.894	2.050	1.00 67.45	O
ATOM	2423	N	SER	311	27.052	62.610	0.477	1.00 59.77	N
ATOM	2424	CA	SER	311	28.334	62.694	1.111	1.00 59.77	C
ATOM	2425	CB	SER	311	29.371	61.812	0.391	1.00 59.77	C
ATOM	2426	OG	SER	311	29.258	61.971	-1.015	1.00 59.77	O
ATOM	2427	C	SER	311	28.788	64.126	1.189	1.00 59.77	C
ATOM	2428	O	SER	311	29.474	64.517	2.134	1.00 59.77	O
ATOM	2429	N	VAL	312	28.392	64.967	0.217	1.00 46.14	N
ATOM	2430	CA	VAL	312	28.795	66.348	0.252	1.00 46.14	C
ATOM	2431	CB	VAL	312	28.268	67.136	-0.907	1.00 46.14	C
ATOM	2432	CG1	VAL	312	28.621	68.620	-0.700	1.00 46.14	C
ATOM	2433	CG2	VAL	312	28.836	66.528	-2.199	1.00 46.14	C
ATOM	2434	C	VAL	312	28.228	66.961	1.485	1.00 46.14	C
ATOM	2435	O	VAL	312	28.839	67.832	2.107	1.00 46.14	O

ATOM	2436	N	GLY	313	27.011	66.540	1.856	1.00	44.40	N
ATOM	2437	CA	GLY	313	26.425	67.149	3.005	1.00	44.40	C
ATOM	2438	C	GLY	313	27.253	66.862	4.218	1.00	44.40	C
ATOM	2439	O	GLY	313	27.621	67.773	4.952	1.00	44.40	O
ATOM	2440	N	GLN	314	27.636	65.594	4.431	1.00	56.89	N
ATOM	2441	CA	GLN	314	28.313	65.239	5.650	1.00	56.89	C
ATOM	2442	CB	GLN	314	28.664	63.744	5.714	1.00	56.89	C
ATOM	2443	CG	GLN	314	27.450	62.828	5.527	1.00	56.89	C
ATOM	2444	CD	GLN	314	26.343	63.301	6.458	1.00	56.89	C
ATOM	2445	OE1	GLN	314	25.526	64.139	6.082	1.00	56.89	O
ATOM	2446	NE2	GLN	314	26.306	62.760	7.706	1.00	56.89	N
ATOM	2447	C	GLN	314	29.588	66.010	5.731	1.00	56.89	C
ATOM	2448	O	GLN	314	29.994	66.465	6.802	1.00	56.89	O
ATOM	2449	N	ALA	315	30.246	66.199	4.580	1.00	42.80	N
ATOM	2450	CA	ALA	315	31.512	66.862	4.577	1.00	42.80	C
ATOM	2451	CB	ALA	315	32.090	67.027	3.164	1.00	42.80	C
ATOM	2452	C	ALA	315	31.350	68.241	5.143	1.00	42.80	C
ATOM	2453	O	ALA	315	32.203	68.708	5.897	1.00	42.80	O
ATOM	2454	N	SER	316	30.240	68.927	4.807	1.00	96.74	N
ATOM	2455	CA	SER	316	30.103	70.301	5.208	1.00	96.74	C
ATOM	2456	CB	SER	316	28.822	70.979	4.684	1.00	96.74	C
ATOM	2457	OG	SER	316	28.866	71.088	3.269	1.00	96.74	O
ATOM	2458	C	SER	316	30.156	70.456	6.700	1.00	96.74	C
ATOM	2459	O	SER	316	30.947	71.269	7.177	1.00	96.74	O
ATOM	2460	N	PRO	317	29.391	69.745	7.488	1.00	78.26	N
ATOM	2461	CA	PRO	317	29.529	69.983	8.895	1.00	78.26	C
ATOM	2462	CD	PRO	317	28.004	69.460	7.160	1.00	78.26	C
ATOM	2463	CB	PRO	317	28.337	69.303	9.560	1.00	78.26	C
ATOM	2464	CG	PRO	317	27.238	69.434	8.494	1.00	78.26	C
ATOM	2465	C	PRO	317	30.862	69.629	9.468	1.00	78.26	C
ATOM	2466	O	PRO	317	31.265	70.255	10.446	1.00	78.26	O
ATOM	2467	N	SER	318	31.570	68.640	8.902	1.00	73.15	N
ATOM	2468	CA	SER	318	32.833	68.301	9.486	1.00	73.15	C
ATOM	2469	CB	SER	318	33.487	67.077	8.832	1.00	73.15	C
ATOM	2470	OG	SER	318	34.727	66.802	9.466	1.00	73.15	O
ATOM	2471	C	SER	318	33.746	69.473	9.314	1.00	73.15	C
ATOM	2472	O	SER	318	34.509	69.822	10.214	1.00	73.15	O
ATOM	2473	N	ILE	319	33.661	70.140	8.148	1.00	42.75	N
ATOM	2474	CA	ILE	319	34.520	71.255	7.863	1.00	42.75	C
ATOM	2475	CB	ILE	319	34.278	71.859	6.511	1.00	42.75	C
ATOM	2476	CG1	ILE	319	34.587	70.845	5.403	1.00	42.75	C
ATOM	2477	CG2	ILE	319	35.102	73.153	6.403	1.00	42.75	C
ATOM	2478	CD1	ILE	319	34.074	71.288	4.036	1.00	42.75	C
ATOM	2479	C	ILE	319	34.247	72.334	8.854	1.00	42.75	C
ATOM	2480	O	ILE	319	35.169	72.967	9.370	1.00	42.75	O
ATOM	2481	N	GLU	320	32.957	72.556	9.155	1.00	48.91	N
ATOM	2482	CA	GLU	320	32.583	73.609	10.046	1.00	48.91	C
ATOM	2483	CB	GLU	320	31.077	73.588	10.343	1.00	48.91	C
ATOM	2484	CG	GLU	320	30.598	74.686	11.289	1.00	48.91	C
ATOM	2485	CD	GLU	320	29.137	74.388	11.592	1.00	48.91	C
ATOM	2486	OE1	GLU	320	28.865	73.256	12.073	1.00	48.91	O
ATOM	2487	OE2	GLU	320	28.275	75.275	11.349	1.00	48.91	O
ATOM	2488	C	GLU	320	33.301	73.367	11.332	1.00	48.91	C
ATOM	2489	O	GLU	320	33.854	74.284	11.935	1.00	48.91	O
ATOM	2490	N	ALA	321	33.367	72.097	11.760	1.00	42.88	N
ATOM	2491	CA	ALA	321	33.987	71.802	13.015	1.00	42.88	C
ATOM	2492	CB	ALA	321	33.976	70.300	13.337	1.00	42.88	C
ATOM	2493	C	ALA	321	35.414	72.252	12.993	1.00	42.88	C
ATOM	2494	O	ALA	321	35.878	72.874	13.949	1.00	42.88	O
ATOM	2495	N	PHE	322	36.146	71.990	11.892	1.00	122.36	N
ATOM	2496	CA	PHE	322	37.536	72.338	11.912	1.00	122.36	C
ATOM	2497	CB	PHE	322	38.317	71.962	10.644	1.00	122.36	C
ATOM	2498	CG	PHE	322	39.741	72.265	10.971	1.00	122.36	C
ATOM	2499	CD1	PHE	322	40.268	73.519	10.752	1.00	122.36	C
ATOM	2500	CD2	PHE	322	40.546	71.292	11.517	1.00	122.36	C
ATOM	2501	CE1	PHE	322	41.577	73.798	11.064	1.00	122.36	C
ATOM	2502	CE2	PHE	322	41.857	71.564	11.831	1.00	122.36	C
ATOM	2503	CZ	PHE	322	42.373	72.817	11.605	1.00	122.36	C
ATOM	2504	C	PHE	322	37.676	73.815	12.106	1.00	122.36	C
ATOM	2505	O	PHE	322	38.402	74.261	12.990	1.00	122.36	O
ATOM	2506	N	ALA	323	36.939	74.620	11.327	1.00	44.34	N
ATOM	2507	CA	ALA	323	37.110	76.044	11.381	1.00	44.34	C
ATOM	2508	CB	ALA	323	36.164	76.787	10.421	1.00	44.34	C
ATOM	2509	C	ALA	323	36.823	76.531	12.769	1.00	44.34	C

ATOM	2510	O	ALA	323	37.521	77.412	13.270	1.00	44.34	O
ATOM	2511	N	ASN	324	35.795	75.970	13.435	1.00	63.97	N
ATOM	2512	CA	ASN	324	35.433	76.436	14.747	1.00	63.97	C
ATOM	2513	CB	ASN	324	34.329	75.596	15.420	1.00	63.97	C
ATOM	2514	CG	ASN	324	33.002	75.740	14.693	1.00	63.97	C
ATOM	2515	OD1	ASN	324	32.466	74.767	14.165	1.00	63.97	O
ATOM	2516	ND2	ASN	324	32.442	76.978	14.682	1.00	63.97	N
ATOM	2517	C	ASN	324	36.600	76.249	15.657	1.00	63.97	C
ATOM	2518	O	ASN	324	37.019	77.176	16.348	1.00	63.97	O
ATOM	2519	N	ALA	325	37.174	75.034	15.646	1.00	45.34	N
ATOM	2520	CA	ALA	325	38.224	74.700	16.557	1.00	45.34	C
ATOM	2521	CB	ALA	325	38.721	73.255	16.382	1.00	45.34	C
ATOM	2522	C	ALA	325	39.371	75.610	16.310	1.00	45.34	C
ATOM	2523	O	ALA	325	40.026	76.056	17.250	1.00	45.34	O
ATOM	2524	N	ARG	326	39.653	75.901	15.030	1.00	109.00	N
ATOM	2525	CA	ARG	326	40.772	76.741	14.744	1.00	109.00	C
ATOM	2526	CB	ARG	326	40.992	76.939	13.237	1.00	109.00	C
ATOM	2527	CG	ARG	326	42.328	77.601	12.900	1.00	109.00	C
ATOM	2528	CD	ARG	326	42.590	77.701	11.397	1.00	109.00	C
ATOM	2529	NE	ARG	326	42.512	79.142	11.032	1.00	109.00	N
ATOM	2530	CZ	ARG	326	41.323	79.716	10.693	1.00	109.00	C
ATOM	2531	NH1	ARG	326	40.183	78.967	10.640	1.00	109.00	N
ATOM	2532	NH2	ARG	326	41.277	81.049	10.402	1.00	109.00	N
ATOM	2533	C	ARG	326	40.548	78.088	15.346	1.00	109.00	C
ATOM	2534	O	ARG	326	41.357	78.547	16.149	1.00	109.00	O
ATOM	2535	N	GLY	327	39.387	78.711	15.056	1.00	38.40	N
ATOM	2536	CA	GLY	327	39.151	80.058	15.488	1.00	38.40	C
ATOM	2537	C	GLY	327	39.270	80.097	16.971	1.00	38.40	C
ATOM	2538	O	GLY	327	39.870	81.014	17.534	1.00	38.40	O
ATOM	2539	N	ALA	328	38.704	79.085	17.648	1.00	75.94	N
ATOM	2540	CA	ALA	328	38.775	79.124	19.070	1.00	75.94	C
ATOM	2541	CB	ALA	328	38.022	77.954	19.724	1.00	75.94	C
ATOM	2542	C	ALA	328	40.199	79.049	19.528	1.00	75.94	C
ATOM	2543	O	ALA	328	40.702	80.011	20.104	1.00	75.94	O
ATOM	2544	N	ALA	329	40.926	77.960	19.193	1.00	105.93	N
ATOM	2545	CA	ALA	329	42.249	77.834	19.737	1.00	105.93	C
ATOM	2546	CB	ALA	329	43.010	76.560	19.338	1.00	105.93	C
ATOM	2547	C	ALA	329	43.082	78.929	19.239	1.00	105.93	C
ATOM	2548	O	ALA	329	43.490	79.723	20.048	1.00	105.93	O
ATOM	2549	N	TYR	330	43.218	79.139	17.927	1.00	171.15	N
ATOM	2550	CA	TYR	330	44.195	80.066	17.425	1.00	171.15	C
ATOM	2551	CB	TYR	330	44.108	80.132	15.890	1.00	171.15	C
ATOM	2552	CG	TYR	330	44.554	81.470	15.427	1.00	171.15	C
ATOM	2553	CD1	TYR	330	45.880	81.768	15.227	1.00	171.15	C
ATOM	2554	CD2	TYR	330	43.602	82.435	15.195	1.00	171.15	C
ATOM	2555	CE1	TYR	330	46.247	83.023	14.800	1.00	171.15	C
ATOM	2556	CE2	TYR	330	43.964	83.690	14.768	1.00	171.15	C
ATOM	2557	CZ	TYR	330	45.292	83.985	14.573	1.00	171.15	C
ATOM	2558	OH	TYR	330	45.675	85.270	14.135	1.00	171.15	O
ATOM	2559	C	TYR	330	44.069	81.451	18.001	1.00	171.15	C
ATOM	2560	O	TYR	330	45.067	82.016	18.451	1.00	171.15	O
ATOM	2561	N	GLU	331	42.862	82.045	18.021	1.00	79.64	N
ATOM	2562	CA	GLU	331	42.726	83.393	18.513	1.00	79.64	C
ATOM	2563	CB	GLU	331	41.268	83.872	18.432	1.00	79.64	C
ATOM	2564	CG	GLU	331	40.684	83.916	17.021	1.00	79.64	C
ATOM	2565	CD	GLU	331	39.169	83.880	17.176	1.00	79.64	C
ATOM	2566	OE1	GLU	331	38.705	83.543	18.299	1.00	79.64	O
ATOM	2567	OE2	GLU	331	38.456	84.177	16.180	1.00	79.64	O
ATOM	2568	C	GLU	331	43.066	83.444	19.976	1.00	79.64	C
ATOM	2569	O	GLU	331	43.944	84.187	20.409	1.00	79.64	O
ATOM	2570	N	ILE	332	42.378	82.594	20.758	1.00	141.41	N
ATOM	2571	CA	ILE	332	42.431	82.485	22.190	1.00	141.41	C
ATOM	2572	CB	ILE	332	41.450	81.548	22.834	1.00	141.41	C
ATOM	2573	CG1	ILE	332	41.854	80.088	22.570	1.00	141.41	C
ATOM	2574	CG2	ILE	332	40.035	81.917	22.348	1.00	141.41	C
ATOM	2575	CD1	ILE	332	41.111	79.075	23.439	1.00	141.41	C
ATOM	2576	C	ILE	332	43.751	81.926	22.587	1.00	141.41	C
ATOM	2577	O	ILE	332	43.936	81.614	23.756	1.00	141.41	O
ATOM	2578	N	PHE	333	44.482	81.441	21.572	1.00	179.50	N
ATOM	2579	CA	PHE	333	45.790	80.840	21.565	1.00	179.50	C
ATOM	2580	CB	PHE	333	46.162	80.134	20.246	1.00	179.50	C
ATOM	2581	CG	PHE	333	47.520	79.526	20.331	1.00	179.50	C
ATOM	2582	CD1	PHE	333	48.645	80.281	20.096	1.00	179.50	C
ATOM	2583	CD2	PHE	333	47.664	78.189	20.627	1.00	179.50	C

ATOM	2584	CE1	PHE	333	49.898	79.716	20.165	1.00179.50	C
ATOM	2585	CE2	PHE	333	48.912	77.618	20.698	1.00179.50	C
ATOM	2586	CZ	PHE	333	50.030	78.382	20.467	1.00179.50	C
ATOM	2587	C	PHE	333	46.777	81.926	21.695	1.00179.50	C
ATOM	2588	O	PHE	333	47.794	81.810	22.368	1.00179.50	O
ATOM	2589	N	LYS	334	46.510	83.026	20.990	1.00146.97	N
ATOM	2590	CA	LYS	334	47.343	84.174	21.115	1.00146.97	C
ATOM	2591	CB	LYS	334	46.843	85.307	20.206	1.00146.97	C
ATOM	2592	CG	LYS	334	47.035	84.972	18.724	1.00146.97	C
ATOM	2593	CD	LYS	334	46.107	85.724	17.767	1.00146.97	C
ATOM	2594	CE	LYS	334	45.479	86.987	18.355	1.00146.97	C
ATOM	2595	NZ	LYS	334	44.374	86.621	19.268	1.00146.97	N
ATOM	2596	C	LYS	334	47.134	84.536	22.532	1.00146.97	C
ATOM	2597	O	LYS	334	48.001	85.085	23.209	1.00146.97	O
ATOM	2598	N	ILE	335	45.902	84.263	22.982	1.00136.18	N
ATOM	2599	CA	ILE	335	45.548	84.386	24.350	1.00136.18	C
ATOM	2600	CB	ILE	335	44.078	84.214	24.593	1.00136.18	C
ATOM	2601	CG1	ILE	335	43.267	85.280	23.835	1.00136.18	C
ATOM	2602	CG2	ILE	335	43.858	84.218	26.115	1.00136.18	C
ATOM	2603	CD1	ILE	335	43.560	86.710	24.279	1.00136.18	C
ATOM	2604	C	ILE	335	46.264	83.313	25.116	1.00136.18	C
ATOM	2605	O	ILE	335	46.655	83.524	26.263	1.00136.18	O
ATOM	2606	N	ILE	336	46.369	82.093	24.540	1.00264.75	N
ATOM	2607	CA	ILE	336	46.972	81.048	25.313	1.00264.75	C
ATOM	2608	CB	ILE	336	46.599	79.646	24.870	1.00264.75	C
ATOM	2609	CG1	ILE	336	47.014	78.613	25.913	1.00264.75	C
ATOM	2610	CG2	ILE	336	47.269	79.289	23.547	1.00264.75	C
ATOM	2611	CD1	ILE	336	48.503	78.289	25.890	1.00264.75	C
ATOM	2612	C	ILE	336	48.468	81.197	25.469	1.00264.75	C
ATOM	2613	O	ILE	336	48.930	81.558	26.549	1.00264.75	O
ATOM	2614	N	ASP	337	49.256	81.087	24.374	1.00143.63	N
ATOM	2615	CA	ASP	337	50.679	81.042	24.514	1.00143.63	C
ATOM	2616	CB	ASP	337	51.470	80.906	23.198	1.00143.63	C
ATOM	2617	CG	ASP	337	51.543	79.437	22.804	1.00143.63	C
ATOM	2618	OD1	ASP	337	50.670	78.648	23.251	1.00143.63	O
ATOM	2619	OD2	ASP	337	52.497	79.082	22.061	1.00143.63	O
ATOM	2620	C	ASP	337	51.204	82.293	25.200	1.00143.63	C
ATOM	2621	O	ASP	337	51.813	82.208	26.266	1.00143.63	O
ATOM	2622	N	ASN	338	50.881	83.494	24.676	1.00139.90	N
ATOM	2623	CA	ASN	338	51.433	84.772	25.100	1.00139.90	C
ATOM	2624	CB	ASN	338	50.550	85.951	24.698	1.00139.90	C
ATOM	2625	CG	ASN	338	49.281	85.793	25.518	1.00139.90	C
ATOM	2626	OD1	ASN	338	48.854	84.679	25.815	1.00139.90	O
ATOM	2627	ND2	ASN	338	48.663	86.936	25.906	1.00139.90	N
ATOM	2628	C	ASN	338	51.647	84.937	26.623	1.00139.90	C
ATOM	2629	O	ASN	338	50.805	84.562	27.435	1.00139.90	O
ATOM	2630	N	LYS	339	52.837	85.502	27.005	1.00261.17	N
ATOM	2631	CA	LYS	339	53.514	85.839	28.271	1.00261.17	C
ATOM	2632	CB	LYS	339	55.042	85.682	28.216	1.00261.17	C
ATOM	2633	CG	LYS	339	55.545	84.394	28.873	1.00261.17	C
ATOM	2634	CD	LYS	339	55.053	83.090	28.252	1.00261.17	C
ATOM	2635	CE	LYS	339	55.611	81.850	28.961	1.00261.17	C
ATOM	2636	NZ	LYS	339	55.022	81.704	30.314	1.00261.17	N
ATOM	2637	C	LYS	339	53.253	87.134	29.024	1.00261.17	C
ATOM	2638	O	LYS	339	54.044	87.350	29.944	1.00261.17	O
ATOM	2639	N	PRO	340	52.357	88.054	28.753	1.00259.15	N
ATOM	2640	CA	PRO	340	52.415	89.383	29.381	1.00259.15	C
ATOM	2641	CD	PRO	340	51.001	87.682	28.388	1.00259.15	C
ATOM	2642	CB	PRO	340	51.017	89.977	29.179	1.00259.15	C
ATOM	2643	CG	PRO	340	50.102	88.744	29.040	1.00259.15	C
ATOM	2644	C	PRO	340	52.932	89.658	30.816	1.00259.15	C
ATOM	2645	O	PRO	340	54.096	90.035	30.945	1.00259.15	O
ATOM	2646	N	SER	341	52.130	89.536	31.897	1.00278.95	N
ATOM	2647	CA	SER	341	52.566	89.552	33.296	1.00278.95	C
ATOM	2648	CB	SER	341	53.399	88.309	33.630	1.00278.95	C
ATOM	2649	OG	SER	341	54.628	88.364	32.922	1.00278.95	O
ATOM	2650	C	SER	341	53.349	90.723	33.923	1.00278.95	C
ATOM	2651	O	SER	341	53.922	90.520	34.976	1.00278.95	O
ATOM	2652	N	ILE	342	53.450	91.964	33.441	1.00241.37	N
ATOM	2653	CA	ILE	342	54.250	92.997	34.117	1.00241.37	C
ATOM	2654	CB	ILE	342	54.548	94.141	33.197	1.00241.37	C
ATOM	2655	CG1	ILE	342	55.294	93.628	31.954	1.00241.37	C
ATOM	2656	CG2	ILE	342	55.346	95.193	33.984	1.00241.37	C
ATOM	2657	CD1	ILE	342	56.644	92.991	32.280	1.00241.37	C

ATOM	2658	C	ILE	342	53.612	93.560	35.360	1.00241.37
ATOM	2659	O	ILE	342	54.270	94.087	36.261	1.00241.37
ATOM	2660	N	ASP	343	52.279	93.527	35.388	1.00175.86
ATOM	2661	CA	ASP	343	51.464	94.209	36.353	1.00175.86
ATOM	2662	CB	ASP	343	49.958	94.014	36.132	1.00175.86
ATOM	2663	CG	ASP	343	49.627	92.584	36.536	1.00175.86
ATOM	2664	OD1	ASP	343	50.123	91.637	35.871	1.00175.86
ATOM	2665	OD2	ASP	343	48.873	92.422	37.533	1.00175.86
ATOM	2666	C	ASP	343	51.689	93.703	37.733	1.00175.86
ATOM	2667	O	ASP	343	51.080	94.218	38.667	1.00175.86
ATOM	2668	N	SER	344	52.449	92.614	37.905	1.00262.48
ATOM	2669	CA	SER	344	52.526	92.079	39.227	1.00262.48
ATOM	2670	CB	SER	344	51.335	91.152	39.504	1.00262.48
ATOM	2671	OG	SER	344	51.416	90.629	40.817	1.00262.48
ATOM	2672	C	SER	344	53.766	91.272	39.347	1.00262.48
ATOM	2673	O	SER	344	54.647	91.643	40.124	1.00262.48
ATOM	2674	N	TYR	345	53.818	90.115	38.637	1.00300.94
ATOM	2675	CA	TYR	345	55.024	89.349	38.644	1.00300.94
ATOM	2676	CB	TYR	345	56.258	90.254	38.416	1.00300.94
ATOM	2677	CG	TYR	345	57.506	89.507	38.101	1.00300.94
ATOM	2678	CD1	TYR	345	57.472	88.259	37.526	1.00300.94
ATOM	2679	CD2	TYR	345	58.722	90.073	38.407	1.00300.94
ATOM	2680	CE1	TYR	345	58.646	87.603	37.237	1.00300.94
ATOM	2681	CE2	TYR	345	59.895	89.424	38.115	1.00300.94
ATOM	2682	CZ	TYR	345	59.857	88.186	37.525	1.00300.94
ATOM	2683	OH	TYR	345	61.060	87.515	37.222	1.00300.94
ATOM	2684	C	TYR	345	55.049	88.624	39.947	1.00300.94
ATOM	2685	O	TYR	345	54.171	88.828	40.783	1.00300.94
ATOM	2686	N	SER	346	55.910	87.601	40.071	1.00278.87
ATOM	2687	CA	SER	346	56.065	86.987	41.344	1.00278.87
ATOM	2688	CB	SER	346	55.369	85.622	41.445	1.00278.87
ATOM	2689	OG	SER	346	53.978	85.762	41.197	1.00278.87
ATOM	2690	C	SER	346	57.525	86.727	41.451	1.00278.87
ATOM	2691	O	SER	346	57.949	85.595	41.223	1.00278.87
ATOM	2692	N	LYS	347	58.309	87.768	41.816	1.00236.03
ATOM	2693	CA	LYS	347	59.741	87.670	41.913	1.00236.03
ATOM	2694	CB	LYS	347	60.517	88.123	40.671	1.00236.03
ATOM	2695	CG	LYS	347	61.977	87.658	40.682	1.00236.03
ATOM	2696	CD	LYS	347	62.779	88.094	39.464	1.00236.03
ATOM	2697	CE	LYS	347	62.852	89.615	39.358	1.00236.03
ATOM	2698	NZ	LYS	347	63.330	90.178	40.640	1.00236.03
ATOM	2699	C	LYS	347	60.200	88.569	43.069	1.00236.03
ATOM	2700	O	LYS	347	59.386	88.982	43.888	1.00236.03
ATOM	2701	N	SER	348	61.513	88.944	43.143	1.00175.66
ATOM	2702	CA	SER	348	62.180	89.646	44.238	1.00175.66
ATOM	2703	CB	SER	348	63.681	89.839	43.972	1.00175.66
ATOM	2704	OG	SER	348	64.334	90.303	45.143	1.00175.66
ATOM	2705	C	SER	348	61.569	91.007	44.560	1.00175.66
ATOM	2706	O	SER	348	60.497	91.348	44.076	1.00175.66
ATOM	2707	N	GLY	349	62.178	91.829	45.460	1.00 95.99
ATOM	2708	CA	GLY	349	61.521	93.096	45.738	1.00 95.99
ATOM	2709	C	GLY	349	61.984	93.775	47.021	1.00 95.99
ATOM	2710	O	GLY	349	63.165	93.744	47.371	1.00 95.99
ATOM	2711	N	HIS	350	61.019	94.438	47.727	1.00119.30
ATOM	2712	CA	HIS	350	61.181	95.298	48.897	1.00119.30
ATOM	2713	ND1	HIS	350	61.680	98.730	49.405	1.00119.30
ATOM	2714	CG	HIS	350	60.728	97.758	49.607	1.00119.30
ATOM	2715	CB	HIS	350	60.469	96.641	48.641	1.00119.30
ATOM	2716	NE2	HIS	350	60.640	99.244	51.300	1.00119.30
ATOM	2717	CD2	HIS	350	60.103	98.083	50.770	1.00119.30
ATOM	2718	CE1	HIS	350	61.584	99.595	50.447	1.00119.30
ATOM	2719	C	HIS	350	60.529	94.667	50.118	1.00119.30
ATOM	2720	O	HIS	350	59.539	93.954	49.984	1.00119.30
ATOM	2721	N	LYS	351	61.052	94.908	51.356	1.00169.67
ATOM	2722	CA	LYS	351	60.470	94.279	52.537	1.00169.67
ATOM	2723	CB	LYS	351	61.302	93.099	53.066	1.00169.67
ATOM	2724	CG	LYS	351	60.910	91.731	52.507	1.00169.67
ATOM	2725	CD	LYS	351	61.191	91.494	51.027	1.00169.67
ATOM	2726	CE	LYS	351	60.729	90.107	50.577	1.00169.67
ATOM	2727	NZ	LYS	351	61.041	89.899	49.146	1.00169.67
ATOM	2728	C	LYS	351	60.251	95.186	53.740	1.00169.67
ATOM	2729	O	LYS	351	61.196	95.546	54.447	1.00169.67
ATOM	2730	N	PRO	352	59.021	95.570	54.015	1.00172.39
ATOM	2731	CA	PRO	352	58.679	96.314	55.223	1.00172.39

ATOM	2732	CD	PRO	352	58.028	95.736	52.973	1.00172.39	C
ATOM	2733	CB	PRO	352	57.381	97.059	54.901	1.00172.39	C
ATOM	2734	CG	PRO	352	56.794	96.292	53.702	1.00172.39	C
ATOM	2735	C	PRO	352	58.560	95.392	56.399	1.00172.39	C
ATOM	2736	O	PRO	352	57.449	94.967	56.723	1.00172.39	O
ATOM	2737	N	ASP	353	59.666	95.160	57.116	1.00136.53	N
ATOM	2738	CA	ASP	353	59.677	94.204	58.180	1.00136.53	C
ATOM	2739	CB	ASP	353	61.092	93.715	58.522	1.00136.53	C
ATOM	2740	CG	ASP	353	61.529	92.892	57.308	1.00136.53	C
ATOM	2741	OD1	ASP	353	60.821	92.964	56.267	1.00136.53	O
ATOM	2742	OD2	ASP	353	62.564	92.179	57.401	1.00136.53	O
ATOM	2743	C	ASP	353	58.956	94.702	59.382	1.00136.53	C
ATOM	2744	O	ASP	353	58.488	93.886	60.178	1.00136.53	O
ATOM	2745	N	ASN	354	58.888	96.041	59.561	1.00257.24	N
ATOM	2746	CA	ASN	354	58.135	96.589	60.653	1.00257.24	C
ATOM	2747	CB	ASN	354	58.010	98.120	60.577	1.00257.24	C
ATOM	2748	CG	ASN	354	57.338	98.470	59.254	1.00257.24	C
ATOM	2749	OD1	ASN	354	56.113	98.477	59.153	1.00257.24	O
ATOM	2750	ND2	ASN	354	58.157	98.751	58.205	1.00257.24	N
ATOM	2751	C	ASN	354	56.788	95.985	60.440	1.00257.24	C
ATOM	2752	O	ASN	354	56.267	95.957	59.336	1.00257.24	O
ATOM	2753	N	ILE	355	56.225	95.310	61.434	1.00253.71	N
ATOM	2754	CA	ILE	355	55.028	94.666	61.007	1.00253.71	C
ATOM	2755	CB	ILE	355	54.642	93.605	61.988	1.00253.71	C
ATOM	2756	CG1	ILE	355	55.846	92.677	62.222	1.00253.71	C
ATOM	2757	CG2	ILE	355	53.397	92.885	61.452	1.00253.71	C
ATOM	2758	CD1	ILE	355	56.425	92.087	60.938	1.00253.71	C
ATOM	2759	C	ILE	355	53.841	95.593	60.837	1.00253.71	C
ATOM	2760	O	ILE	355	53.564	96.041	59.729	1.00253.71	O
ATOM	2761	N	LYS	356	53.259	96.075	61.960	1.00216.45	N
ATOM	2762	CA	LYS	356	51.969	96.736	62.028	1.00216.45	C
ATOM	2763	CB	LYS	356	51.517	97.009	63.472	1.00216.45	C
ATOM	2764	CG	LYS	356	51.220	95.741	64.277	1.00216.45	C
ATOM	2765	CD	LYS	356	50.047	94.923	63.731	1.00216.45	C
ATOM	2766	CE	LYS	356	48.676	95.493	64.102	1.00216.45	C
ATOM	2767	NZ	LYS	356	48.344	95.142	65.501	1.00216.45	N
ATOM	2768	C	LYS	356	51.934	98.044	61.306	1.00216.45	C
ATOM	2769	O	LYS	356	52.968	98.626	60.978	1.00216.45	O
ATOM	2770	N	GLY	357	50.694	98.513	61.012	1.00 52.40	N
ATOM	2771	CA	GLY	357	50.530	99.780	60.355	1.00 52.40	C
ATOM	2772	C	GLY	357	49.082	100.020	60.034	1.00 52.40	C
ATOM	2773	O	GLY	357	48.219	99.167	60.230	1.00 52.40	O
ATOM	2774	N	ASN	358	48.790	101.221	59.494	1.00 78.31	N
ATOM	2775	CA	ASN	358	47.444	101.620	59.196	1.00 78.31	C
ATOM	2776	CB	ASN	358	47.128	103.035	59.707	1.00 78.31	C
ATOM	2777	CG	ASN	358	47.429	103.083	61.199	1.00 78.31	C
ATOM	2778	OD1	ASN	358	48.554	102.826	61.625	1.00 78.31	O
ATOM	2779	ND2	ASN	358	46.403	103.434	62.019	1.00 78.31	N
ATOM	2780	C	ASN	358	47.325	101.685	57.714	1.00 78.31	C
ATOM	2781	O	ASN	358	48.268	102.064	57.024	1.00 78.31	O
ATOM	2782	N	LEU	359	46.160	101.284	57.179	1.00119.51	N
ATOM	2783	CA	LEU	359	45.970	101.362	55.762	1.00119.51	C
ATOM	2784	CB	LEU	359	44.834	100.451	55.268	1.00119.51	C
ATOM	2785	CG	LEU	359	45.158	98.948	55.409	1.00119.51	C
ATOM	2786	CD1	LEU	359	45.471	98.562	56.865	1.00119.51	C
ATOM	2787	CD2	LEU	359	44.042	98.082	54.804	1.00119.51	C
ATOM	2788	C	LEU	359	45.651	102.787	55.445	1.00119.51	C
ATOM	2789	O	LEU	359	45.011	103.481	56.232	1.00119.51	O
ATOM	2790	N	GLU	360	46.128	103.284	54.289	1.00129.20	N
ATOM	2791	CA	GLU	360	45.833	104.647	53.968	1.00129.20	C
ATOM	2792	CB	GLU	360	47.046	105.574	54.156	1.00129.20	C
ATOM	2793	CG	GLU	360	47.615	105.587	55.578	1.00129.20	C
ATOM	2794	CD	GLU	360	46.692	106.410	56.461	1.00129.20	C
ATOM	2795	OE1	GLU	360	45.515	105.998	56.631	1.00129.20	O
ATOM	2796	OE2	GLU	360	47.155	107.464	56.974	1.00129.20	O
ATOM	2797	C	GLU	360	45.484	104.709	52.518	1.00129.20	C
ATOM	2798	O	GLU	360	46.362	104.643	51.661	1.00129.20	O
ATOM	2799	N	PHE	361	44.188	104.855	52.190	1.00155.26	N
ATOM	2800	CA	PHE	361	43.855	104.990	50.805	1.00155.26	C
ATOM	2801	CB	PHE	361	42.523	104.328	50.424	1.00155.26	C
ATOM	2802	CG	PHE	361	42.802	102.869	50.334	1.00155.26	C
ATOM	2803	CD1	PHE	361	42.797	102.074	51.456	1.00155.26	C
ATOM	2804	CD2	PHE	361	43.096	102.304	49.115	1.00155.26	C
ATOM	2805	CE1	PHE	361	43.063	100.729	51.358	1.00155.26	C

ATOM	2806	CE2	PHE	361	43.361	100.960	49.011	1.00155.26
ATOM	2807	CZ	PHE	361	43.344	100.170	50.135	1.00155.26
ATOM	2808	C	PHE	361	43.755	106.452	50.565	1.00155.26
ATOM	2809	O	PHE	361	42.808	107.100	51.006	1.00155.26
ATOM	2810	N	ARG	362	44.751	107.025	49.864	1.00125.03
ATOM	2811	CA	ARG	362	44.661	108.437	49.695	1.00125.03
ATOM	2812	CB	ARG	362	45.775	109.255	50.373	1.00125.03
ATOM	2813	CG	ARG	362	45.389	109.678	51.792	1.00125.03
ATOM	2814	CD	ARG	362	46.243	110.816	52.356	1.00125.03
ATOM	2815	NE	ARG	362	47.355	110.222	53.147	1.00125.03
ATOM	2816	CZ	ARG	362	47.129	109.966	54.469	1.00125.03
ATOM	2817	NH1	ARG	362	45.889	110.198	54.989	1.00125.03
ATOM	2818	NH2	ARG	362	48.126	109.486	55.267	1.00125.03
ATOM	2819	C	ARG	362	44.569	108.842	48.265	1.00125.03
ATOM	2820	O	ARG	362	45.435	108.548	47.442	1.00125.03
ATOM	2821	N	ASN	363	43.459	109.547	47.971	1.00 76.88
ATOM	2822	CA	ASN	363	43.171	110.173	46.716	1.00 76.88
ATOM	2823	CB	ASN	363	43.930	111.504	46.550	1.00 76.88
ATOM	2824	CG	ASN	363	43.328	112.288	45.395	1.00 76.88
ATOM	2825	OD1	ASN	363	42.837	111.716	44.424	1.00 76.88
ATOM	2826	ND2	ASN	363	43.363	113.642	45.503	1.00 76.88
ATOM	2827	C	ASN	363	43.528	109.253	45.597	1.00 76.88
ATOM	2828	O	ASN	363	44.404	109.565	44.792	1.00 76.88
ATOM	2829	N	VAL	364	42.859	108.088	45.511	1.00 59.65
ATOM	2830	CA	VAL	364	43.224	107.168	44.475	1.00 59.65
ATOM	2831	CB	VAL	364	43.435	105.768	44.971	1.00 59.65
ATOM	2832	CG1	VAL	364	43.652	104.839	43.765	1.00 59.65
ATOM	2833	CG2	VAL	364	44.601	105.782	45.970	1.00 59.65
ATOM	2834	C	VAL	364	42.160	107.090	43.438	1.00 59.65
ATOM	2835	O	VAL	364	40.997	106.799	43.718	1.00 59.65
ATOM	2836	N	HIS	365	42.575	107.332	42.184	1.00 74.60
ATOM	2837	CA	HIS	365	41.712	107.199	41.061	1.00 74.60
ATOM	2838	ND1	HIS	365	42.328	110.294	41.458	1.00 74.60
ATOM	2839	CG	HIS	365	41.647	109.654	40.447	1.00 74.60
ATOM	2840	CB	HIS	365	41.941	108.265	39.984	1.00 74.60
ATOM	2841	NE2	HIS	365	40.817	111.735	40.693	1.00 74.60
ATOM	2842	CD2	HIS	365	40.727	110.548	39.993	1.00 74.60
ATOM	2843	CE1	HIS	365	41.794	111.535	41.563	1.00 74.60
ATOM	2844	C	HIS	365	42.164	105.925	40.449	1.00 74.60
ATOM	2845	O	HIS	365	43.345	105.588	40.516	1.00 74.60
ATOM	2846	N	PHE	366	41.229	105.153	39.881	1.00104.54
ATOM	2847	CA	PHE	366	41.619	103.929	39.273	1.00104.54
ATOM	2848	CB	PHE	366	41.794	102.793	40.298	1.00104.54
ATOM	2849	CG	PHE	366	41.823	101.495	39.568	1.00104.54
ATOM	2850	CD1	PHE	366	42.947	101.066	38.902	1.00104.54
ATOM	2851	CD2	PHE	366	40.699	100.700	39.567	1.00104.54
ATOM	2852	CE1	PHE	366	42.941	99.861	38.236	1.00104.54
ATOM	2853	CE2	PHE	366	40.687	99.495	38.905	1.00104.54
ATOM	2854	CZ	PHE	366	41.812	99.076	38.236	1.00104.54
ATOM	2855	C	PHE	366	40.559	103.530	38.328	1.00104.54
ATOM	2856	O	PHE	366	39.366	103.613	38.608	1.00104.54
ATOM	2857	N	SER	367	41.003	103.070	37.159	1.00 81.09
ATOM	2858	CA	SER	367	40.094	102.595	36.185	1.00 81.09
ATOM	2859	CB	SER	367	40.113	103.391	34.873	1.00 81.09
ATOM	2860	OG	SER	367	39.228	102.799	33.935	1.00 81.09
ATOM	2861	C	SER	367	40.575	101.232	35.879	1.00 81.09
ATOM	2862	O	SER	367	41.766	100.929	35.942	1.00 81.09
ATOM	2863	N	TYR	368	39.621	100.362	35.569	1.00214.64
ATOM	2864	CA	TYR	368	39.965	99.038	35.204	1.00214.64
ATOM	2865	CB	TYR	368	38.746	98.185	34.794	1.00214.64
ATOM	2866	CG	TYR	368	38.118	97.680	36.049	1.00214.64
ATOM	2867	CD1	TYR	368	38.613	96.538	36.638	1.00214.64
ATOM	2868	CD2	TYR	368	37.068	98.330	36.651	1.00214.64
ATOM	2869	CE1	TYR	368	38.067	96.039	37.796	1.00214.64
ATOM	2870	CE2	TYR	368	36.517	97.833	37.810	1.00214.64
ATOM	2871	CZ	TYR	368	37.011	96.688	38.385	1.00214.64
ATOM	2872	OH	TYR	368	36.440	96.187	39.573	1.00214.64
ATOM	2873	C	TYR	368	40.994	99.055	34.100	1.00214.64
ATOM	2874	O	TYR	368	41.134	100.032	33.365	1.00214.64
ATOM	2875	N	PRO	369	41.766	97.998	34.004	1.00126.08
ATOM	2876	CA	PRO	369	42.839	97.923	33.050	1.00126.08
ATOM	2877	CD	PRO	369	41.309	96.673	34.392	1.00126.08
ATOM	2878	CB	PRO	369	43.341	96.487	33.106	1.00126.08
ATOM	2879	CG	PRO	369	42.075	95.708	33.487	1.00126.08

ATOM	2880	C	PRO	369	42.400	98.284	31.670	1.00126.08	C
ATOM	2881	O	PRO	369	43.252	98.707	30.892	1.00126.08	O
ATOM	2882	N	SER	370	41.126	98.069	31.293	1.00 81.78	N
ATOM	2883	CA	SER	370	40.781	98.560	29.991	1.00 81.78	C
ATOM	2884	CB	SER	370	39.358	98.199	29.538	1.00 81.78	C
ATOM	2885	OG	SER	370	39.231	96.799	29.347	1.00 81.78	O
ATOM	2886	C	SER	370	40.903	100.043	30.131	1.00 81.78	C
ATOM	2887	O	SER	370	40.219	100.670	30.931	1.00 81.78	O
ATOM	2888	N	ARG	371	41.719	100.672	29.283	1.00164.54	N
ATOM	2889	CA	ARG	371	42.131	102.025	29.540	1.00164.54	C
ATOM	2890	CB	ARG	371	43.152	102.560	28.514	1.00164.54	C
ATOM	2891	CG	ARG	371	42.533	102.825	27.149	1.00164.54	C
ATOM	2892	CD	ARG	371	41.942	104.234	27.097	1.00164.54	C
ATOM	2893	NE	ARG	371	40.718	104.177	26.257	1.00164.54	N
ATOM	2894	CZ	ARG	371	40.718	104.423	24.916	1.00164.54	C
ATOM	2895	NH1	ARG	371	41.864	104.773	24.265	1.00164.54	N
ATOM	2896	NH2	ARG	371	39.541	104.319	24.233	1.00164.54	N
ATOM	2897	C	ARG	371	40.984	103.016	29.628	1.00164.54	C
ATOM	2898	O	ARG	371	41.092	103.995	30.362	1.00164.54	O
ATOM	2899	N	LYS	372	39.906	102.865	28.832	1.00175.86	N
ATOM	2900	CA	LYS	372	38.806	103.812	28.784	1.00175.86	C
ATOM	2901	CB	LYS	372	38.096	103.831	27.419	1.00175.86	C
ATOM	2902	CG	LYS	372	38.357	102.593	26.563	1.00175.86	C
ATOM	2903	CD	LYS	372	37.828	101.266	27.096	1.00175.86	C
ATOM	2904	CE	LYS	372	38.179	100.116	26.149	1.00175.86	C
ATOM	2905	NZ	LYS	372	37.548	98.859	26.600	1.00175.86	N
ATOM	2906	C	LYS	372	37.758	103.841	29.879	1.00175.86	C
ATOM	2907	O	LYS	372	37.287	104.925	30.222	1.00175.86	O
ATOM	2908	N	GLU	373	37.352	102.695	30.468	1.00109.43	N
ATOM	2909	CA	GLU	373	36.202	102.677	31.350	1.00109.43	C
ATOM	2910	CB	GLU	373	35.871	101.296	31.945	1.00109.43	C
ATOM	2911	CG	GLU	373	35.361	100.302	30.896	1.00109.43	C
ATOM	2912	CD	GLU	373	36.576	99.807	30.143	1.00109.43	C
ATOM	2913	OE1	GLU	373	37.689	100.028	30.688	1.00109.43	O
ATOM	2914	OE2	GLU	373	36.424	99.224	29.035	1.00109.43	O
ATOM	2915	C	GLU	373	36.330	103.662	32.466	1.00109.43	C
ATOM	2916	O	GLU	373	37.407	104.182	32.750	1.00109.43	O
ATOM	2917	N	VAL	374	35.177	103.966	33.102	1.00109.74	N
ATOM	2918	CA	VAL	374	35.116	104.945	34.144	1.00109.74	C
ATOM	2919	CB	VAL	374	33.752	105.111	34.751	1.00109.74	C
ATOM	2920	CG1	VAL	374	33.341	103.784	35.412	1.00109.74	C
ATOM	2921	CG2	VAL	374	33.803	106.292	35.735	1.00109.74	C
ATOM	2922	C	VAL	374	36.039	104.556	35.240	1.00109.74	C
ATOM	2923	O	VAL	374	36.141	103.389	35.614	1.00109.74	O
ATOM	2924	N	LYS	375	36.757	105.558	35.780	1.00142.96	N
ATOM	2925	CA	LYS	375	37.665	105.264	36.841	1.00142.96	C
ATOM	2926	CB	LYS	375	38.364	106.512	37.407	1.00142.96	C
ATOM	2927	CG	LYS	375	38.931	107.498	36.384	1.00142.96	C
ATOM	2928	CD	LYS	375	40.074	106.976	35.520	1.00142.96	C
ATOM	2929	CE	LYS	375	40.632	108.064	34.600	1.00142.96	C
ATOM	2930	NZ	LYS	375	41.738	107.533	33.775	1.00142.96	N
ATOM	2931	C	LYS	375	36.775	104.829	37.947	1.00142.96	C
ATOM	2932	O	LYS	375	36.181	105.674	38.616	1.00142.96	O
ATOM	2933	N	ILE	376	36.734	103.510	38.210	1.00166.37	N
ATOM	2934	CA	ILE	376	35.871	102.941	39.193	1.00166.37	C
ATOM	2935	CB	ILE	376	36.277	101.529	39.424	1.00166.37	C
ATOM	2936	CG1	ILE	376	36.126	100.731	38.123	1.00166.37	C
ATOM	2937	CG2	ILE	376	35.560	101.006	40.667	1.00166.37	C
ATOM	2938	CD1	ILE	376	34.762	100.867	37.458	1.00166.37	C
ATOM	2939	C	ILE	376	36.182	103.671	40.453	1.00166.37	C
ATOM	2940	O	ILE	376	35.296	104.227	41.101	1.00166.37	O
ATOM	2941	N	LEU	377	37.480	103.743	40.791	1.00111.09	N
ATOM	2942	CA	LEU	377	37.838	104.553	41.909	1.00111.09	C
ATOM	2943	CB	LEU	377	39.148	104.126	42.599	1.00111.09	C
ATOM	2944	CG	LEU	377	39.081	102.726	43.251	1.00111.09	C
ATOM	2945	CD1	LEU	377	40.331	102.441	44.095	1.00111.09	C
ATOM	2946	CD2	LEU	377	37.776	102.528	44.038	1.00111.09	C
ATOM	2947	C	LEU	377	38.009	105.918	41.315	1.00111.09	C
ATOM	2948	O	LEU	377	39.037	106.256	40.740	1.00111.09	O
ATOM	2949	N	LYS	378	36.954	106.729	41.454	1.00154.31	N
ATOM	2950	CA	LYS	378	36.719	108.048	40.938	1.00154.31	C
ATOM	2951	CB	LYS	378	35.246	108.470	41.046	1.00154.31	C
ATOM	2952	CG	LYS	378	34.752	108.597	42.484	1.00154.31	C
ATOM	2953	CD	LYS	378	33.395	109.284	42.594	1.00154.31	C



ATOM	2954	CE	LYS	378	32.902	109.421	44.033	1.00154.31	C
ATOM	2955	NZ	LYS	378	31.533	109.974	44.042	1.00154.31	N
ATOM	2956	C	LYS	378	37.543	109.086	41.633	1.00154.31	C
ATOM	2957	O	LYS	378	37.301	110.278	41.440	1.00154.31	O
ATOM	2958	N	GLY	379	38.496	108.689	42.498	1.00 81.83	N
ATOM	2959	CA	GLY	379	39.132	109.684	43.314	1.00 81.83	C
ATOM	2960	C	GLY	379	38.580	109.449	44.677	1.00 81.83	C
ATOM	2961	O	GLY	379	37.660	110.121	45.143	1.00 81.83	O
ATOM	2962	N	LEU	380	39.117	108.379	45.297	1.00154.20	N
ATOM	2963	CA	LEU	380	38.677	107.873	46.560	1.00154.20	C
ATOM	2964	CB	LEU	380	38.410	106.352	46.453	1.00154.20	C
ATOM	2965	CG	LEU	380	38.205	105.574	47.766	1.00154.20	C
ATOM	2966	CD1	LEU	380	39.549	105.283	48.456	1.00154.20	C
ATOM	2967	CD2	LEU	380	37.203	106.281	48.690	1.00154.20	C
ATOM	2968	C	LEU	380	39.685	108.128	47.629	1.00154.20	C
ATOM	2969	O	LEU	380	40.884	107.913	47.452	1.00154.20	O
ATOM	2970	N	ASN	381	39.183	108.612	48.782	1.00 85.06	N
ATOM	2971	CA	ASN	381	39.983	108.899	49.929	1.00 85.06	C
ATOM	2972	CB	ASN	381	39.895	110.371	50.367	1.00 85.06	C
ATOM	2973	CG	ASN	381	40.370	111.233	49.202	1.00 85.06	C
ATOM	2974	OD1	ASN	381	39.563	111.770	48.446	1.00 85.06	O
ATOM	2975	ND2	ASN	381	41.711	111.367	49.038	1.00 85.06	N
ATOM	2976	C	ASN	381	39.408	108.079	51.034	1.00 85.06	C
ATOM	2977	O	ASN	381	38.188	107.968	51.173	1.00 85.06	O
ATOM	2978	N	LEU	382	40.283	107.435	51.826	1.00147.02	N
ATOM	2979	CA	LEU	382	39.768	106.653	52.901	1.00147.02	C
ATOM	2980	CB	LEU	382	39.045	105.381	52.389	1.00147.02	C
ATOM	2981	CG	LEU	382	38.307	104.496	53.423	1.00147.02	C
ATOM	2982	CD1	LEU	382	37.622	103.312	52.720	1.00147.02	C
ATOM	2983	CD2	LEU	382	39.221	104.009	54.556	1.00147.02	C
ATOM	2984	C	LEU	382	40.943	106.249	53.720	1.00147.02	C
ATOM	2985	O	LEU	382	42.005	105.915	53.193	1.00147.02	O
ATOM	2986	N	LYS	383	40.785	106.301	55.050	1.00177.71	N
ATOM	2987	CA	LYS	383	41.851	105.876	55.897	1.00177.71	C
ATOM	2988	CB	LYS	383	42.417	106.981	56.799	1.00177.71	C
ATOM	2989	CG	LYS	383	43.010	108.176	56.058	1.00177.71	C
ATOM	2990	CD	LYS	383	43.281	109.359	56.990	1.00177.71	C
ATOM	2991	CE	LYS	383	42.131	109.640	57.961	1.00177.71	C
ATOM	2992	NZ	LYS	383	40.906	110.006	57.215	1.00177.71	N
ATOM	2993	C	LYS	383	41.238	104.903	56.835	1.00177.71	C
ATOM	2994	O	LYS	383	40.025	104.937	57.052	1.00177.71	O
ATOM	2995	N	VAL	384	42.056	103.978	57.379	1.00147.83	N
ATOM	2996	CA	VAL	384	41.518	103.094	58.366	1.00147.83	C
ATOM	2997	CB	VAL	384	41.082	101.767	57.811	1.00147.83	C
ATOM	2998	CG1	VAL	384	42.289	101.036	57.196	1.00147.83	C
ATOM	2999	CG2	VAL	384	40.392	100.991	58.942	1.00147.83	C
ATOM	3000	C	VAL	384	42.582	102.862	59.400	1.00147.83	C
ATOM	3001	O	VAL	384	43.694	102.420	59.102	1.00147.83	O
ATOM	3002	N	GLN	385	42.225	103.119	60.668	1.00 85.48	N
ATOM	3003	CA	GLN	385	43.114	103.037	61.785	1.00 85.48	C
ATOM	3004	CB	GLN	385	42.478	103.563	63.084	1.00 85.48	C
ATOM	3005	CG	GLN	385	42.062	105.033	62.991	1.00 85.48	C
ATOM	3006	CD	GLN	385	41.386	105.428	64.298	1.00 85.48	C
ATOM	3007	OE1	GLN	385	40.667	106.423	64.362	1.00 85.48	O
ATOM	3008	NE2	GLN	385	41.618	104.625	65.369	1.00 85.48	N
ATOM	3009	C	GLN	385	43.498	101.611	62.015	1.00 85.48	C
ATOM	3010	O	GLN	385	42.895	100.692	61.466	1.00 85.48	O
ATOM	3011	N	SER	386	44.558	101.403	62.823	1.00 65.82	N
ATOM	3012	CA	SER	386	45.021	100.082	63.141	1.00 65.82	C
ATOM	3013	CB	SER	386	46.354	100.077	63.906	1.00 65.82	C
ATOM	3014	OG	SER	386	46.193	100.731	65.158	1.00 65.82	O
ATOM	3015	C	SER	386	44.021	99.441	64.044	1.00 65.82	C
ATOM	3016	O	SER	386	43.169	100.109	64.625	1.00 65.82	O
ATOM	3017	N	GLY	387	44.049	98.097	64.087	1.00 63.50	N
ATOM	3018	CA	GLY	387	43.283	97.310	65.013	1.00 63.50	C
ATOM	3019	C	GLY	387	41.805	97.422	64.751	1.00 63.50	C
ATOM	3020	O	GLY	387	41.017	96.651	65.295	1.00 63.50	O
ATOM	3021	N	GLN	388	41.378	98.367	63.896	1.00108.23	N
ATOM	3022	CA	GLN	388	39.978	98.569	63.678	1.00108.23	C
ATOM	3023	CB	GLN	388	39.607	100.000	63.265	1.00108.23	C
ATOM	3024	CG	GLN	388	39.784	100.994	64.415	1.00108.23	C
ATOM	3025	CD	GLN	388	39.255	102.352	63.977	1.00108.23	C
ATOM	3026	OE1	GLN	388	39.176	102.650	62.786	1.00108.23	O
ATOM	3027	NE2	GLN	388	38.880	103.201	64.971	1.00108.23	N

ATOM	3028	C	GLN	388	39.510	97.623	62.637	1.00108.23	C
ATOM	3029	O	GLN	388	40.240	96.730	62.207	1.00108.23	O
ATOM	3030	N	THR	389	38.213	97.738	62.303	1.00160.85	N
ATOM	3031	CA	THR	389	37.656	96.946	61.257	1.00160.85	C
ATOM	3032	CB	THR	389	36.915	95.752	61.764	1.00160.85	C
ATOM	3033	OG1	THR	389	37.774	94.921	62.528	1.00160.85	O
ATOM	3034	CG2	THR	389	36.392	94.979	60.557	1.00160.85	C
ATOM	3035	C	THR	389	36.657	97.825	60.564	1.00160.85	C
ATOM	3036	O	THR	389	35.762	98.377	61.203	1.00160.85	O
ATOM	3037	N	VAL	390	36.767	97.963	59.227	1.00146.43	N
ATOM	3038	CA	VAL	390	35.860	98.840	58.535	1.00146.43	C
ATOM	3039	CB	VAL	390	36.523	99.848	57.645	1.00146.43	C
ATOM	3040	CG1	VAL	390	37.499	100.691	58.469	1.00146.43	C
ATOM	3041	CG2	VAL	390	37.150	99.107	56.458	1.00146.43	C
ATOM	3042	C	VAL	390	35.004	98.032	57.607	1.00146.43	C
ATOM	3043	O	VAL	390	35.441	97.031	57.041	1.00146.43	O
ATOM	3044	N	ALA	391	33.747	98.483	57.411	1.00 70.99	N
ATOM	3045	CA	ALA	391	32.830	97.772	56.561	1.00 70.99	C
ATOM	3046	CB	ALA	391	31.454	97.537	57.205	1.00 70.99	C
ATOM	3047	C	ALA	391	32.582	98.550	55.304	1.00 70.99	C
ATOM	3048	O	ALA	391	32.318	99.750	55.322	1.00 70.99	O
ATOM	3049	N	LEU	392	32.654	97.862	54.151	1.00118.54	N
ATOM	3050	CA	LEU	392	32.388	98.524	52.905	1.00118.54	C
ATOM	3051	CB	LEU	392	33.458	98.257	51.837	1.00118.54	C
ATOM	3052	CG	LEU	392	34.823	98.878	52.178	1.00118.54	C
ATOM	3053	CD1	LEU	392	35.378	98.317	53.496	1.00118.54	C
ATOM	3054	CD2	LEU	392	35.803	98.723	51.005	1.00118.54	C
ATOM	3055	C	LEU	392	31.084	98.006	52.391	1.00118.54	C
ATOM	3056	O	LEU	392	30.810	96.808	52.423	1.00118.54	O
ATOM	3057	N	VAL	393	30.219	98.914	51.905	1.00159.46	N
ATOM	3058	CA	VAL	393	28.939	98.449	51.466	1.00159.46	C
ATOM	3059	CB	VAL	393	27.849	99.063	52.291	1.00159.46	C
ATOM	3060	CG1	VAL	393	26.500	98.547	51.805	1.00159.46	C
ATOM	3061	CG2	VAL	393	28.129	98.780	53.774	1.00159.46	C
ATOM	3062	C	VAL	393	28.712	98.861	50.035	1.00159.46	C
ATOM	3063	O	VAL	393	28.616	100.049	49.755	1.00159.46	O
ATOM	3064	N	GLY	394	28.566	97.895	49.096	1.00 84.13	N
ATOM	3065	CA	GLY	394	28.363	98.208	47.695	1.00 84.13	C
ATOM	3066	C	GLY	394	27.554	97.092	47.082	1.00 84.13	C
ATOM	3067	O	GLY	394	27.218	96.128	47.769	1.00 84.13	O
ATOM	3068	N	ASN	395	27.186	97.203	45.777	1.00205.97	N
ATOM	3069	CA	ASN	395	26.411	96.160	45.138	1.00205.97	C
ATOM	3070	CB	ASN	395	24.893	96.213	45.402	1.00205.97	C
ATOM	3071	CG	ASN	395	24.539	95.301	46.573	1.00205.97	C
ATOM	3072	OD1	ASN	395	25.				

ATOM	3102	NZ	LYS	400	31.519	95.948	44.937	1.00216.24	N
ATOM	3103	C	LYS	400	35.235	96.632	46.740	1.00216.24	C
ATOM	3104	O	LYS	400	36.343	96.862	47.223	1.00216.24	O
ATOM	3105	N	SER	401	34.945	95.508	46.073	1.00102.92	N
ATOM	3106	CA	SER	401	35.815	94.386	46.075	1.00102.92	C
ATOM	3107	CB	SER	401	35.314	93.254	45.169	1.00102.92	C
ATOM	3108	OG	SER	401	35.241	93.708	43.826	1.00102.92	O
ATOM	3109	C	SER	401	37.127	94.849	45.546	1.00102.92	C
ATOM	3110	O	SER	401	38.136	94.362	46.041	1.00102.92	O
ATOM	3111	N	THR	402	37.135	95.803	44.572	1.00203.90	N
ATOM	3112	CA	THR	402	38.336	96.253	43.905	1.00203.90	C
ATOM	3113	CB	THR	402	38.117	96.972	42.597	1.00203.90	C
ATOM	3114	OG1	THR	402	39.307	96.884	41.838	1.00203.90	O
ATOM	3115	CG2	THR	402	37.802	98.459	42.802	1.00203.90	C
ATOM	3116	C	THR	402	39.259	97.053	44.778	1.00203.90	C
ATOM	3117	O	THR	402	40.475	96.945	44.652	1.00203.90	O
ATOM	3118	N	THR	403	38.744	97.923	45.658	1.00143.64	N
ATOM	3119	CA	THR	403	39.658	98.613	46.525	1.00143.64	C
ATOM	3120	CB	THR	403	38.952	99.566	47.439	1.00143.64	C
ATOM	3121	OG1	THR	403	38.092	100.402	46.684	1.00143.64	O
ATOM	3122	CG2	THR	403	40.008	100.430	48.150	1.00143.64	C
ATOM	3123	C	THR	403	40.237	97.538	47.394	1.00143.64	C
ATOM	3124	O	THR	403	41.424	97.527	47.711	1.00143.64	O
ATOM	3125	N	VAL	404	39.377	96.579	47.786	1.00 93.50	N
ATOM	3126	CA	VAL	404	39.770	95.472	48.607	1.00 93.50	C
ATOM	3127	CB	VAL	404	38.637	94.532	48.899	1.00 93.50	C
ATOM	3128	CG1	VAL	404	39.187	93.313	49.660	1.00 93.50	C
ATOM	3129	CG2	VAL	404	37.548	95.303	49.664	1.00 93.50	C
ATOM	3130	C	VAL	404	40.773	94.738	47.810	1.00 93.50	C
ATOM	3131	O	VAL	404	41.579	93.976	48.346	1.00 93.50	O
ATOM	3132	N	GLN	405	40.647	94.891	46.482	1.00153.68	N
ATOM	3133	CA	GLN	405	41.487	94.202	45.572	1.00153.68	C
ATOM	3134	CB	GLN	405	40.971	94.309	44.126	1.00153.68	C
ATOM	3135	CG	GLN	405	41.557	93.272	43.175	1.00153.68	C
ATOM	3136	CD	GLN	405	40.767	91.994	43.410	1.00153.68	C
ATOM	3137	OE1	GLN	405	39.617	91.876	42.991	1.00153.68	O
ATOM	3138	NE2	GLN	405	41.392	91.015	44.115	1.00153.68	N
ATOM	3139	C	GLN	405	42.906	94.696	45.573	1.00153.68	C
ATOM	3140	O	GLN	405	43.814	93.966	45.962	1.00153.68	O
ATOM	3141	N	LEU	406	43.088	95.994	45.247	1.00152.88	N
ATOM	3142	CA	LEU	406	44.313	96.721	45.072	1.00152.88	C
ATOM	3143	CB	LEU	406	44.005	98.137	44.535	1.00152.88	C
ATOM	3144	CG	LEU	406	45.172	99.133	44.453	1.00152.88	C
ATOM	3145	CD1	LEU	406	44.772	100.350	43.611	1.00152.88	C
ATOM	3146	CD2	LEU	40					

ATOM	3176	O	ARG	409	48.719	94.488	42.649	1.00263.94	O
ATOM	3177	N	LEU	410	46.704	94.049	43.617	1.00189.15	N
ATOM	3178	CA	LEU	410	46.262	93.207	42.573	1.00189.15	C
ATOM	3179	CB	LEU	410	44.807	92.739	42.728	1.00189.15	C
ATOM	3180	CG	LEU	410	44.479	91.509	41.856	1.00189.15	C
ATOM	3181	CD1	LEU	410	44.617	91.795	40.354	1.00189.15	C
ATOM	3182	CD2	LEU	410	45.310	90.296	42.310	1.00189.15	C
ATOM	3183	C	LEU	410	46.386	94.056	41.344	1.00189.15	C
ATOM	3184	O	LEU	410	46.819	93.567	40.311	1.00189.15	O
ATOM	3185	N	TYR	411	46.061	95.364	41.436	1.00149.15	N
ATOM	3186	CA	TYR	411	46.239	96.286	40.344	1.00149.15	C
ATOM	3187	CB	TYR	411	44.924	96.918	39.866	1.00149.15	C
ATOM	3188	CG	TYR	411	44.051	95.885	39.259	1.00149.15	C
ATOM	3189	CD1	TYR	411	43.578	94.836	40.011	1.00149.15	C
ATOM	3190	CD2	TYR	411	43.668	96.004	37.944	1.00149.15	C
ATOM	3191	CE1	TYR	411	42.758	93.895	39.443	1.00149.15	C
ATOM	3192	CE2	TYR	411	42.847	95.065	37.372	1.00149.15	C
ATOM	3193	CZ	TYR	411	42.395	94.009	38.124	1.00149.15	C
ATOM	3194	OH	TYR	411	41.551	93.039	37.549	1.00149.15	O
ATOM	3195	C	TYR	411	46.980	97.441	40.902	1.00149.15	C
ATOM	3196	O	TYR	411	46.708	97.841	42.031	1.00149.15	O
ATOM	3197	N	ASP	412	47.933	98.013	40.139	1.00127.77	N
ATOM	3198	CA	ASP	412	48.565	99.183	40.680	1.00127.77	C
ATOM	3199	CB	ASP	412	49.866	99.599	39.973	1.00127.77	C
ATOM	3200	CG	ASP	412	50.971	98.654	40.416	1.00127.77	C
ATOM	3201	OD1	ASP	412	50.641	97.536	40.893	1.00127.77	O
ATOM	3202	OD2	ASP	412	52.160	99.050	40.290	1.00127.77	O
ATOM	3203	C	ASP	412	47.588	100.317	40.572	1.00127.77	C
ATOM	3204	O	ASP	412	46.755	100.331	39.670	1.00127.77	O
ATOM	3205	N	PRO	413	47.633	101.268	41.475	1.00107.08	N
ATOM	3206	CA	PRO	413	46.732	102.394	41.498	1.00107.08	C
ATOM	3207	CD	PRO	413	48.639	101.332	42.522	1.00107.08	C
ATOM	3208	CB	PRO	413	47.054	103.148	42.789	1.00107.08	C
ATOM	3209	CG	PRO	413	48.515	102.758	43.090	1.00107.08	C
ATOM	3210	C	PRO	413	46.910	103.253	40.292	1.00107.08	C
ATOM	3211	O	PRO	413	48.048	103.555	39.936	1.00107.08	O
ATOM	3212	N	THR	414	45.799	103.676	39.658	1.00 49.66	N
ATOM	3213	CA	THR	414	45.934	104.517	38.508	1.00 49.66	C
ATOM	3214	CB	THR	414	44.638	104.783	37.802	1.00 49.66	C
ATOM	3215	OG1	THR	414	44.054	103.563	37.370	1.00 49.66	O
ATOM	3216	CG2	THR	414	44.931	105.679	36.587	1.00 49.66	C
ATOM	3217	C	THR	414	46.505	105.834	38.928	1.00 49.66	C
ATOM	3218	O	THR	414	47.448	106.332	38.316	1.00 49.66	O
ATOM	3219	N	GLU	415	45.956	106.437	40.000	1.00 56.76	N
ATOM	3220	CA	GLU	415	46.458	107.710	40.429	1.00 56.76	C
ATOM	3221	CB	GLU	415	45.668	108.902	39.869	1.00 56.76	C
ATOM	3222	CG	GLU	415	45.874	109.078	38.368	1.00 56.76	C
ATOM	3223	CD	GLU	415	44.825	110.044	37.847	1.00 56.76	C
ATOM	3224	OE1	GLU	415	44.034	110.566	38.679	1.00 56.76	O
ATOM	3225	OE2	GLU	415	44.795	110.271	36.608	1.00 56.76	O
ATOM	3226	C	GLU	415	46.349	107.759	41.910	1.00 56.76	C
ATOM	3227	O	GLU	415	45.620	106.980	42.520	1.00 56.76	O
ATOM	3228	N	GLY	416	47.090	108.690	42.532	1.00 37.14	N
ATOM	3229	CA	GLY	416	47.033	108.772	43.957	1.00 37.14	C
ATOM	3230	C	GLY	416	47.864	107.650	44.474	1.00 37.14	C
ATOM	3231	O	GLY	416	48.818	107.230	43.822	1.00 37.14	O
ATOM	3232	N	MET	417	47.542	107.134	45.675	1.00154.39	N
ATOM	3233	CA	MET	417	48.367	106.077	46.181	1.00154.39	C
ATOM	3234	CB	MET	417	49.674	106.564	46.839	1.00154.39	C
ATOM	3235	CG	MET	417	50.723	107.196	45.931	1.00154.39	C
ATOM	3236	SD	MET	417	51.811	106.021	45.074	1.00154.39	S
ATOM	3237	CE	MET	417	53.035	107.292	44.646	1.00154.39	C
ATOM	3238	C	MET	417	47.677	105.435	47.329	1.00154.39	C
ATOM	3239	O	MET	417	46.636	105.887	47.803	1.00154.39	O
ATOM	3240	N	VAL	418	48.286	104.334	47.800	1.00141.02	N
ATOM	3241	CA	VAL	418	47.843	103.656	48.977	1.00141.02	C
ATOM	3242	CB	VAL	418	47.082	102.395	48.689	1.00141.02	C
ATOM	3243	CG1	VAL	418	47.877	101.564	47.673	1.00141.02	C
ATOM	3244	CG2	VAL	418	46.844	101.664	50.021	1.00141.02	C
ATOM	3245	C	VAL	418	49.066	103.317	49.753	1.00141.02	C
ATOM	3246	O	VAL	418	50.131	103.063	49.188	1.00141.02	O
ATOM	3247	N	SER	419	48.933	103.327	51.089	1.00 79.92	N
ATOM	3248	CA	SER	419	50.047	103.072	51.949	1.00 79.92	C
ATOM	3249	CB	SER	419	50.453	104.341	52.724	1.00 79.92	C

ATOM	3250	OG	SER	419	51.342	104.040	53.788	1.00	79.92	O
ATOM	3251	C	SER	419	49.632	102.064	52.968	1.00	79.92	C
ATOM	3252	O	SER	419	48.539	102.141	53.525	1.00	79.92	O
ATOM	3253	N	VAL	420	50.506	101.068	53.208	1.00	104.10	N
ATOM	3254	CA	VAL	420	50.304	100.114	54.254	1.00	104.10	C
ATOM	3255	CB	VAL	420	50.740	98.723	53.899	1.00	104.10	C
ATOM	3256	CG1	VAL	420	50.641	97.838	55.153	1.00	104.10	C
ATOM	3257	CG2	VAL	420	49.888	98.228	52.718	1.00	104.10	C
ATOM	3258	C	VAL	420	51.208	100.596	55.309	1.00	104.10	C
ATOM	3259	O	VAL	420	52.257	101.125	54.949	1.00	104.10	O
ATOM	3260	N	ASP	421	50.848	100.434	56.606	1.00	188.42	N
ATOM	3261	CA	ASP	421	51.719	100.999	57.594	1.00	188.42	C
ATOM	3262	CB	ASP	421	53.147	100.416	57.490	1.00	188.42	C
ATOM	3263	CG	ASP	421	54.016	100.882	58.651	1.00	188.42	C
ATOM	3264	OD1	ASP	421	53.449	101.354	59.672	1.00	188.42	O
ATOM	3265	OD2	ASP	421	55.265	100.783	58.517	1.00	188.42	O
ATOM	3266	C	ASP	421	51.742	102.452	57.215	1.00	188.42	C
ATOM	3267	O	ASP	421	50.688	103.064	57.048	1.00	188.42	O
ATOM	3268	N	GLY	422	52.955	103.032	57.190	1.00	116.14	N
ATOM	3269	CA	GLY	422	53.371	104.300	56.654	1.00	116.14	C
ATOM	3270	C	GLY	422	53.752	104.295	55.182	1.00	116.14	C
ATOM	3271	O	GLY	422	53.767	105.353	54.554	1.00	116.14	O
ATOM	3272	N	GLN	423	54.191	103.135	54.631	1.00	104.23	N
ATOM	3273	CA	GLN	423	54.806	103.030	53.323	1.00	104.23	C
ATOM	3274	CB	GLN	423	55.796	101.860	53.215	1.00	104.23	C
ATOM	3275	CG	GLN	423	56.998	101.936	54.154	1.00	104.23	C
ATOM	3276	CD	GLN	423	57.830	100.689	53.883	1.00	104.23	C
ATOM	3277	OE1	GLN	423	57.333	99.706	53.336	1.00	104.23	O
ATOM	3278	NE2	GLN	423	59.135	100.727	54.265	1.00	104.23	N
ATOM	3279	C	GLN	423	53.808	102.773	52.239	1.00	104.23	C
ATOM	3280	O	GLN	423	52.698	102.302	52.469	1.00	104.23	O
ATOM	3281	N	ASP	424	54.229	103.076	50.993	1.00	95.23	N
ATOM	3282	CA	ASP	424	53.427	102.891	49.824	1.00	95.23	C
ATOM	3283	CB	ASP	424	53.948	103.708	48.627	1.00	95.23	C
ATOM	3284	CG	ASP	424	53.215	103.261	47.373	1.00	95.23	C
ATOM	3285	OD1	ASP	424	53.644	102.235	46.781	1.00	95.23	O
ATOM	3286	OD2	ASP	424	52.216	103.928	46.996	1.00	95.23	O
ATOM	3287	C	ASP	424	53.468	101.442	49.459	1.00	95.23	C
ATOM	3288	O	ASP	424	54.527	100.826	49.371	1.00	95.23	O
ATOM	3289	N	ILE	425	52.291	100.865	49.187	1.00	107.71	N
ATOM	3290	CA	ILE	425	52.180	99.451	48.950	1.00	107.71	C
ATOM	3291	CB	ILE	425	50.767	99.035	48.689	1.00	107.71	C
ATOM	3292	CG1	ILE	425	50.670	97.516	48.500	1.00	107.71	C
ATOM	3293	CG2	ILE	425	50.255	99.837	47.486	1.00	107.71	C
ATOM	3294	CD1	ILE	425	49.225	97.029	48.455	1.00	107.71	C
ATOM	3295	C	ILE	425	52.997	98.989	47.772	1.00	107.71	C
ATOM	3296	O	ILE	425	53.733	98.009	47.883	1.00	107.71	O
ATOM	3297	N	ARG	426	52.949	99.712	46.639	1.00	195.90	N
ATOM	3298	CA	ARG	426	53.534	99.269	45.403	1.00	195.90	C
ATOM	3299	CB	ARG	426	53.364	100.305	44.288	1.00	195.90	C
ATOM	3300	CG	ARG	426	51.894	100.634	44.038	1.00	195.90	C
ATOM	3301	CD	ARG	426	51.657	101.424	42.755	1.00	195.90	C
ATOM	3302	NE	ARG	426	52.381	102.717	42.862	1.00	195.90	N
ATOM	3303	CZ	ARG	426	52.588	103.452	41.733	1.00	195.90	C
ATOM	3304	NH1	ARG	426	52.150	102.981	40.529	1.00	195.90	N
ATOM	3305	NH2	ARG	426	53.226	104.655	41.808	1.00	195.90	N
ATOM	3306	C	ARG	426	54.996	99.041	45.599	1.00	195.90	C
ATOM	3307	O	ARG	426	55.590	98.149	44.990	1.00	195.90	O
ATOM	3308	N	THR	427	55.605	99.849	46.476	1.00	166.97	N
ATOM	3309	CA	THR	427	57.012	99.798	46.734	1.00	166.97	C
ATOM	3310	CB	THR	427	57.363	100.690	47.886	1.00	166.97	C
ATOM	3311	OG1	THR	427	56.989	102.029	47.618	1.00	166.97	O
ATOM	3312	CG2	THR	427	58.863	100.603	48.149	1.00	166.97	C
ATOM	3313	C	THR	427	57.409	98.427	47.186	1.00	166.97	C
ATOM	3314	O	THR	427	58.430	97.896	46.758	1.00	166.97	O
ATOM	3315	N	ILE	428	56.602	97.829	48.074	1.00	213.32	N
ATOM	3316	CA	ILE	428	56.881	96.572	48.716	1.00	213.32	C
ATOM	3317	CB	ILE	428	55.849	96.209	49.737	1.00	213.32	C
ATOM	3318	CG1	ILE	428	55.512	97.385	50.651	1.00	213.32	C
ATOM	3319	CG2	ILE	428	56.395	95.016	50.528	1.00	213.32	C
ATOM	3320	CD1	ILE	428	54.216	97.158	51.427	1.00	213.32	C
ATOM	3321	C	ILE	428	56.776	95.444	47.725	1.00	213.32	C
ATOM	3322	O	ILE	428	56.049	95.524	46.736	1.00	213.32	O
ATOM	3323	N	ASN	429	57.535	94.355	47.983	1.00	94.98	N

ATOM	3324	CA	ASN	429	57.511	93.143	47.207	1.00	94.98	C
ATOM	3325	CB	ASN	429	58.593	92.145	47.650	1.00	94.98	C
ATOM	3326	CG	ASN	429	58.345	90.817	46.954	1.00	94.98	C
ATOM	3327	OD1	ASN	429	58.213	89.783	47.607	1.00	94.98	O
ATOM	3328	ND2	ASN	429	58.267	90.838	45.597	1.00	94.98	N
ATOM	3329	C	ASN	429	56.182	92.464	47.371	1.00	94.98	C
ATOM	3330	O	ASN	429	55.555	92.529	48.427	1.00	94.98	O
ATOM	3331	N	VAL	430	55.721	91.806	46.283	1.00	111.59	N
ATOM	3332	CA	VAL	430	54.426	91.173	46.204	1.00	111.59	C
ATOM	3333	CB	VAL	430	54.105	90.688	44.818	1.00	111.59	C
ATOM	3334	CG1	VAL	430	52.721	90.016	44.847	1.00	111.59	C
ATOM	3335	CG2	VAL	430	54.219	91.865	43.834	1.00	111.59	C
ATOM	3336	C	VAL	430	54.254	89.992	47.114	1.00	111.59	C
ATOM	3337	O	VAL	430	53.415	90.038	48.013	1.00	111.59	O
ATOM	3338	N	ARG	431	55.113	88.956	46.975	1.00	107.87	N
ATOM	3339	CA	ARG	431	54.974	87.694	47.657	1.00	107.87	C
ATOM	3340	CB	ARG	431	56.245	86.850	47.478	1.00	107.87	C
ATOM	3341	CG	ARG	431	56.386	85.678	48.445	1.00	107.87	C
ATOM	3342	CD	ARG	431	57.744	84.988	48.318	1.00	107.87	C
ATOM	3343	NE	ARG	431	57.764	84.324	46.988	1.00	107.87	N
ATOM	3344	CZ	ARG	431	57.294	83.048	46.889	1.00	107.87	C
ATOM	3345	NH1	ARG	431	56.875	82.401	48.014	1.00	107.87	N
ATOM	3346	NH2	ARG	431	57.240	82.428	45.675	1.00	107.87	N
ATOM	3347	C	ARG	431	54.855	88.017	49.117	1.00	107.87	C
ATOM	3348	O	ARG	431	54.049	87.426	49.839	1.00	107.87	O
ATOM	3349	N	PHE	432	55.660	88.997	49.566	1.00	169.86	N
ATOM	3350	CA	PHE	432	55.681	89.457	50.928	1.00	169.86	C
ATOM	3351	CB	PHE	432	56.819	90.484	51.105	1.00	169.86	C
ATOM	3352	CG	PHE	432	57.083	90.789	52.540	1.00	169.86	C
ATOM	3353	CD1	PHE	432	56.417	91.802	53.190	1.00	169.86	C
ATOM	3354	CD2	PHE	432	58.022	90.060	53.234	1.00	169.86	C
ATOM	3355	CE1	PHE	432	56.680	92.078	54.512	1.00	169.86	C
ATOM	3356	CE2	PHE	432	58.289	90.330	54.555	1.00	169.86	C
ATOM	3357	CZ	PHE	432	57.617	91.341	55.198	1.00	169.86	C
ATOM	3358	C	PHE	432	54.374	90.115	51.296	1.00	169.86	C
ATOM	3359	O	PHE	432	53.752	89.769	52.303	1.00	169.86	O
ATOM	3360	N	LEU	433	53.904	91.062	50.456	1.00	164.08	N
ATOM	3361	CA	LEU	433	52.728	91.833	50.773	1.00	164.08	C
ATOM	3362	CB	LEU	433	52.435	92.869	49.669	1.00	164.08	C
ATOM	3363	CG	LEU	433	51.234	93.797	49.924	1.00	164.08	C
ATOM	3364	CD1	LEU	433	49.892	93.066	49.824	1.00	164.08	C
ATOM	3365	CD2	LEU	433	51.395	94.542	51.251	1.00	164.08	C
ATOM	3366	C	LEU	433	51.578	90.898	50.896	1.00	164.08	C
ATOM	3367	O	LEU	433	50.882	90.863	51.911	1.00	164.08	O
ATOM	3368	N	ARG	434	51.434	90.025	49.894	1.00	163.27	N
ATOM	3369	CA	ARG	434	50.325	89.130	49.839	1.00	163.27	C
ATOM	3370	CB	ARG	434	50.420	88.164	48.651	1.00	163.27	C
ATOM	3371	CG	ARG	434	50.360	88.889	47.311	1.00	163.27	C
ATOM	3372	CD	ARG	434	48.933	89.188	46.856	1.00	163.27	C
ATOM	3373	NE	ARG	434	49.022	90.137	45.713	1.00	163.27	N
ATOM	3374	CZ	ARG	434	49.249	89.663	44.454	1.00	163.27	C
ATOM	3375	NH1	ARG	434	49.441	88.326	44.259	1.00	163.27	N
ATOM	3376	NH2	ARG	434	49.281	90.524	43.396	1.00	163.27	N
ATOM	3377	C	ARG	434	50.331	88.309	51.092	1.00	163.27	C
ATOM	3378	O	ARG	434	49.276	87.937	51.599	1.00	163.27	O
ATOM	3379	N	GLU	435	51.521	87.965	51.616	1.00	81.23	N
ATOM	3380	CA	GLU	435	51.567	87.185	52.824	1.00	81.23	C
ATOM	3381	CB	GLU	435	53.005	86.780	53.187	1.00	81.23	C
ATOM	3382	CG	GLU	435	53.640	85.840	52.159	1.00	81.23	C
ATOM	3383	CD	GLU	435	55.074	85.566	52.588	1.00	81.23	C
ATOM	3384	OE1	GLU	435	55.262	84.812	53.580	1.00	81.23	O
ATOM	3385	OE2	GLU	435	55.999	86.112	51.932	1.00	81.23	O
ATOM	3386	C	GLU	435	51.014	87.986	53.980	1.00	81.23	C
ATOM	3387	O	GLU	435	50.209	87.502	54.774	1.00	81.23	O
ATOM	3388	N	ILE	436	51.410	89.266	54.058	1.00	164.31	N
ATOM	3389	CA	ILE	436	51.116	90.219	55.097	1.00	164.31	C
ATOM	3390	CB	ILE	436	51.837	91.518	54.864	1.00	164.31	C
ATOM	3391	CG1	ILE	436	53.351	91.251	54.791	1.00	164.31	C
ATOM	3392	CG2	ILE	436	51.449	92.518	55.968	1.00	164.31	C
ATOM	3393	CD1	ILE	436	53.923	90.604	56.052	1.00	164.31	C
ATOM	3394	C	ILE	436	49.647	90.485	55.168	1.00	164.31	C
ATOM	3395	O	ILE	436	49.163	91.023	56.163	1.00	164.31	O
ATOM	3396	N	ILE	437	48.907	90.255	54.069	1.00	137.04	N
ATOM	3397	CA	ILE	437	47.511	90.568	54.151	1.00	137.04	C

ATOM	3398	CB	ILE	437	47.063	91.523	53.079	1.00137.04	C
ATOM	3399	CG1	ILE	437	47.751	92.895	53.233	1.00137.04	C
ATOM	3400	CG2	ILE	437	45.530	91.611	53.144	1.00137.04	C
ATOM	3401	CD1	ILE	437	49.236	92.915	52.874	1.00137.04	C
ATOM	3402	C	ILE	437	46.661	89.330	54.058	1.00137.04	C
ATOM	3403	O	ILE	437	46.465	88.768	52.984	1.00137.04	O
ATOM	3404	N	GLY	438	46.082	88.904	55.199	1.00 51.28	N
ATOM	3405	CA	GLY	438	45.243	87.739	55.255	1.00 51.28	C
ATOM	3406	C	GLY	438	43.975	88.085	54.551	1.00 51.28	C
ATOM	3407	O	GLY	438	43.463	89.190	54.719	1.00 51.28	O
ATOM	3408	N	VAL	439	43.426	87.146	53.747	1.00108.36	N
ATOM	3409	CA	VAL	439	42.216	87.462	53.035	1.00108.36	C
ATOM	3410	CB	VAL	439	42.465	87.896	51.616	1.00108.36	C
ATOM	3411	CG1	VAL	439	41.115	88.110	50.909	1.00108.36	C
ATOM	3412	CG2	VAL	439	43.366	89.142	51.630	1.00108.36	C
ATOM	3413	C	VAL	439	41.296	86.270	52.966	1.00108.36	C
ATOM	3414	O	VAL	439	41.720	85.137	52.749	1.00108.36	O
ATOM	3415	N	VAL	440	39.980	86.497	53.152	1.00100.38	N
ATOM	3416	CA	VAL	440	39.045	85.407	53.037	1.00100.38	C
ATOM	3417	CB	VAL	440	38.567	84.901	54.362	1.00100.38	C
ATOM	3418	CG1	VAL	440	37.490	83.841	54.105	1.00100.38	C
ATOM	3419	CG2	VAL	440	39.778	84.379	55.155	1.00100.38	C
ATOM	3420	C	VAL	440	37.854	85.884	52.266	1.00100.38	C
ATOM	3421	O	VAL	440	37.079	86.702	52.755	1.00100.38	O
ATOM	3422	N	SER	441	37.673	85.362	51.036	1.00104.19	N
ATOM	3423	CA	SER	441	36.571	85.728	50.186	1.00104.19	C
ATOM	3424	CB	SER	441	36.998	85.885	48.720	1.00104.19	C
ATOM	3425	OG	SER	441	37.626	84.692	48.277	1.00104.19	O
ATOM	3426	C	SER	441	35.500	84.669	50.277	1.00104.19	C
ATOM	3427	O	SER	441	35.579	83.764	51.108	1.00104.19	O
ATOM	3428	N	GLN	442	34.459	84.777	49.414	1.00226.18	N
ATOM	3429	CA	GLN	442	33.264	83.978	49.533	1.00226.18	C
ATOM	3430	CB	GLN	442	32.244	84.288	48.429	1.00226.18	C
ATOM	3431	CG	GLN	442	32.079	85.770	48.132	1.00226.18	C
ATOM	3432	CD	GLN	442	33.124	86.106	47.074	1.00226.18	C
ATOM	3433	OE1	GLN	442	34.107	85.388	46.895	1.00226.18	O
ATOM	3434	NE2	GLN	442	32.895	87.223	46.335	1.00226.18	N
ATOM	3435	C	GLN	442	33.448	82.505	49.385	1.00226.18	C
ATOM	3436	O	GLN	442	33.536	81.794	50.383	1.00226.18	O
ATOM	3437	N	GLU	443	33.643	82.017	48.141	1.00166.35	N
ATOM	3438	CA	GLU	443	33.592	80.595	47.992	1.00166.35	C
ATOM	3439	CB	GLU	443	33.627	80.143	46.518	1.00166.35	C
ATOM	3440	CG	GLU	443	33.233	78.679	46.300	1.00166.35	C
ATOM	3441	CD	GLU	443	34.453	77.795	46.498	1.00166.35	C
ATOM	3442	OE1	GLU	443	35.562	78.361	46.674	1.00166.35	O
ATOM	3443	OE2	GLU	443	34.295	76.545	46.469	1.00166.35	O
ATOM	3444	C	GLU	443	34.797	80.068	48.685	1.00166.35	C
ATOM	3445	O	GLU	443	35.918	80.311	48.254	1.00166.35	O
ATOM	3446	N	PRO	444	34.604	79.419	49.799	1.00141.49	N
ATOM	3447	CA	PRO	444	35.682	78.857	50.548	1.00141.49	C
ATOM	3448	CD	PRO	444	33.300	78.987	50.278	1.00141.49	C
ATOM	3449	CB	PRO	444	35.048	78.360	51.843	1.00141.49	C
ATOM	3450	CG	PRO	444	33.615	77.988	51.407	1.00141.49	C
ATOM	3451	C	PRO	444	36.124	77.728	49.708	1.00141.49	C
ATOM	3452	O	PRO	444	35.319	76.825	49.480	1.00141.49	O
ATOM	3453	N	VAL	445	37.389	77.697	49.281	1.00186.13	N
ATOM	3454	CA	VAL	445	37.680	76.578	48.470	1.00186.13	C
ATOM	3455	CB	VAL	445	38.190	76.941	47.107	1.00186.13	C
ATOM	3456	CG1	VAL	445	39.487	77.754	47.264	1.00186.13	C
ATOM	3457	CG2	VAL	445	38.359	75.646	46.294	1.00186.13	C
ATOM	3458	C	VAL	445	38.711	75.762	49.135	1.00186.13	C
ATOM	3459	O	VAL	445	39.709	76.275	49.640	1.00186.13	O
ATOM	3460	N	LEU	446	38.466	74.445	49.149	1.00133.53	N
ATOM	3461	CA	LEU	446	39.393	73.555	49.754	1.00133.53	C
ATOM	3462	CB	LEU	446	38.802	72.733	50.910	1.00133.53	C
ATOM	3463	CG	LEU	446	38.377	73.608	52.102	1.00133.53	C
ATOM	3464	CD1	LEU	446	37.872	72.756	53.276	1.00133.53	C
ATOM	3465	CD2	LEU	446	39.503	74.572	52.502	1.00133.53	C
ATOM	3466	C	LEU	446	39.794	72.617	48.678	1.00133.53	C
ATOM	3467	O	LEU	446	38.961	72.007	48.007	1.00133.53	O
ATOM	3468	N	PHE	447	41.111	72.497	48.495	1.00171.60	N
ATOM	3469	CA	PHE	447	41.673	71.672	47.488	1.00171.60	C
ATOM	3470	CB	PHE	447	43.202	71.787	47.476	1.00171.60	C
ATOM	3471	CG	PHE	447	43.523	73.240	47.607	1.00171.60	C

ATOM	3472	CD1	PHE	447	43.596	73.800	48.863	1.00171.60	C
ATOM	3473	CD2	PHE	447	43.747	74.044	46.514	1.00171.60	C
ATOM	3474	CE1	PHE	447	43.891	75.131	49.033	1.00171.60	C
ATOM	3475	CE2	PHE	447	44.043	75.378	46.678	1.00171.60	C
ATOM	3476	CZ	PHE	447	44.116	75.926	47.936	1.00171.60	C
ATOM	3477	C	PHE	447	41.346	70.270	47.887	1.00171.60	C
ATOM	3478	O	PHE	447	41.099	69.996	49.058	1.00171.60	O
ATOM	3479	N	ALA	448	41.295	69.327	46.931	1.00110.72	N
ATOM	3480	CA	ALA	448	40.962	68.008	47.383	1.00110.72	C
ATOM	3481	CB	ALA	448	40.535	67.065	46.243	1.00110.72	C
ATOM	3482	C	ALA	448	42.189	67.450	48.013	1.00110.72	C
ATOM	3483	O	ALA	448	43.165	67.128	47.335	1.00110.72	O
ATOM	3484	N	THR	449	42.163	67.339	49.355	1.00143.23	N
ATOM	3485	CA	THR	449	43.313	66.833	50.029	1.00143.23	C
ATOM	3486	CB	THR	449	44.487	67.757	49.874	1.00143.23	C
ATOM	3487	OG1	THR	449	45.692	67.085	50.181	1.00143.23	O
ATOM	3488	CG2	THR	449	44.301	68.970	50.796	1.00143.23	C
ATOM	3489	C	THR	449	42.957	66.686	51.477	1.00143.23	C
ATOM	3490	O	THR	449	41.784	66.723	51.845	1.00143.23	O
ATOM	3491	N	THR	450	43.970	66.495	52.343	1.00 41.70	N
ATOM	3492	CA	THR	450	43.720	66.341	53.748	1.00 41.70	C
ATOM	3493	CB	THR	450	44.903	65.799	54.494	1.00 41.70	C
ATOM	3494	OG1	THR	450	46.002	66.690	54.372	1.00 41.70	O
ATOM	3495	CG2	THR	450	45.278	64.429	53.904	1.00 41.70	C
ATOM	3496	C	THR	450	43.431	67.700	54.301	1.00 41.70	C
ATOM	3497	O	THR	450	43.760	68.717	53.694	1.00 41.70	O
ATOM	3498	N	ILE	451	42.784	67.750	55.480	1.00102.69	N
ATOM	3499	CA	ILE	451	42.491	69.014	56.086	1.00102.69	C
ATOM	3500	CB	ILE	451	41.796	68.870	57.413	1.00102.69	C
ATOM	3501	CG1	ILE	451	40.416	68.208	57.243	1.00102.69	C
ATOM	3502	CG2	ILE	451	41.733	70.253	58.080	1.00102.69	C
ATOM	3503	CD1	ILE	451	39.432	69.020	56.401	1.00102.69	C
ATOM	3504	C	ILE	451	43.815	69.650	56.350	1.00102.69	C
ATOM	3505	O	ILE	451	44.048	70.810	56.013	1.00102.69	O
ATOM	3506	N	ALA	452	44.753	68.857	56.897	1.00 53.23	N
ATOM	3507	CA	ALA	452	46.025	69.394	57.275	1.00 53.23	C
ATOM	3508	CB	ALA	452	46.988	68.320	57.807	1.00 53.23	C
ATOM	3509	C	ALA	452	46.676	70.013	56.075	1.00 53.23	C
ATOM	3510	O	ALA	452	47.115	71.160	56.128	1.00 53.23	O
ATOM	3511	N	GLU	453	46.675	69.311	54.931	1.00101.27	N
ATOM	3512	CA	GLU	453	47.358	69.799	53.769	1.00101.27	C
ATOM	3513	CB	GLU	453	47.195	68.893	52.539	1.00101.27	C
ATOM	3514	CG	GLU	453	48.101	67.668	52.580	1.00101.27	C
ATOM	3515	CD	GLU	453	49.510	68.183	52.344	1.00101.27	C
ATOM	3516	OE1	GLU	453	49.703	68.933	51.349	1.00101.27	O
ATOM	3517	OE2	GLU	453	50.407	67.846	53.161	1.00101.27	O
ATOM	3518	C	GLU	453	46.813	71.136	53.386	1.00101.27	C
ATOM	3519	O	GLU	453	47.564	72.001	52.942	1.00101.27	O
ATOM	3520	N	ASN	454	45.494	71.347	53.523	1.00 71.78	N
ATOM	3521	CA	ASN	454	44.927	72.606	53.127	1.00 71.78	C
ATOM	3522	CB	ASN	454	43.408	72.678	53.358	1.00 71.78	C
ATOM	3523	CG	ASN	454	42.719	71.764	52.356	1.00 71.78	C
ATOM	3524	OD1	ASN	454	42.823	71.954	51.145	1.00 71.78	O
ATOM	3525	ND2	ASN	454	41.995	70.738	52.876	1.00 71.78	N
ATOM	3526	C	ASN	454	45.532	73.692	53.954	1.00 71.78	C
ATOM	3527	O	ASN	454	45.999	74.706	53.440	1.00 71.78	O
ATOM	3528	N	ILE	455	45.580	73.486	55.274	1.00 76.57	N
ATOM	3529	CA	ILE	455	46.129	74.487	56.134	1.00 76.57	C
ATOM	3530	CB	ILE	455	46.042	74.088	57.571	1.00 76.57	C
ATOM	3531	CG1	ILE	455	44.547	74.036	57.930	1.00 76.57	C
ATOM	3532	CG2	ILE	455	46.868	75.065	58.424	1.00 76.57	C
ATOM	3533	CD1	ILE	455	44.228	73.292	59.217	1.00 76.57	C
ATOM	3534	C	ILE	455	47.549	74.670	55.704	1.00 76.57	C
ATOM	3535	O	ILE	455	48.067	75.785	55.673	1.00 76.57	O
ATOM	3536	N	ARG	456	48.200	73.561	55.318	1.00130.82	N
ATOM	3537	CA	ARG	456	49.560	73.585	54.874	1.00130.82	C
ATOM	3538	CB	ARG	456	50.118	72.201	54.515	1.00130.82	C
ATOM	3539	CG	ARG	456	51.574	72.265	54.054	1.00130.82	C
ATOM	3540	CD	ARG	456	52.169	70.902	53.704	1.00130.82	C
ATOM	3541	NE	ARG	456	52.091	70.071	54.936	1.00130.82	N
ATOM	3542	CZ	ARG	456	52.692	68.845	54.976	1.00130.82	C
ATOM	3543	NH1	ARG	456	53.398	68.395	53.900	1.00130.82	N
ATOM	3544	NH2	ARG	456	52.577	68.072	56.094	1.00130.82	N
ATOM	3545	C	ARG	456	49.651	74.432	53.641	1.00130.82	C



ATOM	3546	O	ARG	456	50.672	75.064	53.408	1.00130.82	O
ATOM	3547	N	TYR	457	48.609	74.465	52.796	1.00110.26	N
ATOM	3548	CA	TYR	457	48.660	75.316	51.640	1.00110.26	C
ATOM	3549	CB	TYR	457	47.340	75.384	50.852	1.00110.26	C
ATOM	3550	CG	TYR	457	47.213	74.233	49.917	1.00110.26	C
ATOM	3551	CD1	TYR	457	47.720	74.372	48.651	1.00110.26	C
ATOM	3552	CD2	TYR	457	46.605	73.047	50.256	1.00110.26	C
ATOM	3553	CE1	TYR	457	47.635	73.365	47.724	1.00110.26	C
ATOM	3554	CE2	TYR	457	46.514	72.029	49.330	1.00110.26	C
ATOM	3555	CZ	TYR	457	47.028	72.185	48.063	1.00110.26	C
ATOM	3556	OH	TYR	457	46.937	71.150	47.110	1.00110.26	O
ATOM	3557	C	TYR	457	48.879	76.695	52.153	1.00110.26	C
ATOM	3558	O	TYR	457	49.606	77.489	51.556	1.00110.26	O
ATOM	3559	N	GLY	458	48.258	76.995	53.304	1.00 46.83	N
ATOM	3560	CA	GLY	458	48.366	78.305	53.862	1.00 46.83	C
ATOM	3561	C	GLY	458	49.820	78.582	54.061	1.00 46.83	C
ATOM	3562	O	GLY	458	50.294	79.678	53.764	1.00 46.83	O
ATOM	3563	N	ARG	459	50.575	77.599	54.582	1.00168.69	N
ATOM	3564	CA	ARG	459	51.984	77.828	54.710	1.00168.69	C
ATOM	3565	CB	ARG	459	52.375	78.414	56.080	1.00168.69	C
ATOM	3566	CG	ARG	459	53.822	78.899	56.176	1.00168.69	C
ATOM	3567	CD	ARG	459	54.121	79.623	57.491	1.00168.69	C
ATOM	3568	NE	ARG	459	53.957	78.629	58.589	1.00168.69	N
ATOM	3569	CZ	ARG	459	54.071	79.015	59.894	1.00168.69	C
ATOM	3570	NH1	ARG	459	54.327	80.323	60.193	1.00168.69	N
ATOM	3571	NH2	ARG	459	53.924	78.101	60.896	1.00168.69	N
ATOM	3572	C	ARG	459	52.665	76.511	54.527	1.00168.69	C
ATOM	3573	O	ARG	459	52.366	75.575	55.270	1.00168.69	O
ATOM	3574	N	GLU	460	53.596	76.405	53.543	1.00143.45	N
ATOM	3575	CA	GLU	460	54.148	75.114	53.205	1.00143.45	C
ATOM	3576	CB	GLU	460	55.323	75.171	52.210	1.00143.45	C
ATOM	3577	CG	GLU	460	54.980	75.768	50.846	1.00143.45	C
ATOM	3578	CD	GLU	460	55.143	77.278	50.961	1.00143.45	C
ATOM	3579	OE1	GLU	460	55.443	77.756	52.088	1.00143.45	O
ATOM	3580	OE2	GLU	460	54.971	77.973	49.924	1.00143.45	O
ATOM	3581	C	GLU	460	54.737	74.498	54.453	1.00143.45	C
ATOM	3582	O	GLU	460	54.228	73.491	54.945	1.00143.45	O
ATOM	3583	N	ASN	461	55.769	75.125	55.062	1.00124.96	N
ATOM	3584	CA	ASN	461	56.334	74.496	56.224	1.00124.96	C
ATOM	3585	CB	ASN	461	57.796	74.872	56.522	1.00124.96	C
ATOM	3586	CG	ASN	461	58.314	73.906	57.585	1.00124.96	C
ATOM	3587	OD1	ASN	461	57.794	72.804	57.748	1.00124.96	O
ATOM	3588	ND2	ASN	461	59.366	74.331	58.335	1.00124.96	N
ATOM	3589	C	ASN	461	55.532	74.907	57.418	1.00124.96	C
ATOM	3590	O	ASN</						

ATOM	3620	O	ASP	465	49.472	73.309	66.724	1.00	89.63
ATOM	3621	N	GLU	466	51.075	73.507	65.147	1.00	119.09
ATOM	3622	CA	GLU	466	50.709	74.842	64.770	1.00	119.09
ATOM	3623	CB	GLU	466	51.537	75.371	63.586	1.00	119.09
ATOM	3624	CG	GLU	466	53.042	75.123	63.681	1.00	119.09
ATOM	3625	CD	GLU	466	53.515	75.485	65.070	1.00	119.09
ATOM	3626	OE1	GLU	466	53.572	76.705	65.377	1.00	119.09
ATOM	3627	OE2	GLU	466	53.827	74.539	65.840	1.00	119.09
ATOM	3628	C	GLU	466	49.320	74.780	64.222	1.00	119.09
ATOM	3629	O	GLU	466	48.450	75.572	64.579	1.00	119.09
ATOM	3630	N	ILE	467	49.079	73.793	63.342	1.00	64.47
ATOM	3631	CA	ILE	467	47.814	73.648	62.686	1.00	64.47
ATOM	3632	CB	ILE	467	47.820	72.489	61.744	1.00	64.47
ATOM	3633	CG1	ILE	467	48.865	72.759	60.650	1.00	64.47
ATOM	3634	CG2	ILE	467	46.389	72.276	61.223	1.00	64.47
ATOM	3635	CD1	ILE	467	49.327	71.509	59.913	1.00	64.47
ATOM	3636	C	ILE	467	46.766	73.403	63.720	1.00	64.47
ATOM	3637	O	ILE	467	45.690	73.996	63.669	1.00	64.47
ATOM	3638	N	GLU	468	47.070	72.544	64.710	1.00	59.60
ATOM	3639	CA	GLU	468	46.113	72.213	65.720	1.00	59.60
ATOM	3640	CB	GLU	468	46.651	71.320	66.851	1.00	59.60
ATOM	3641	CG	GLU	468	45.563	70.951	67.866	1.00	59.60
ATOM	3642	CD	GLU	468	46.219	70.395	69.121	1.00	59.60
ATOM	3643	OE1	GLU	468	47.149	71.065	69.645	1.00	59.60
ATOM	3644	OE2	GLU	468	45.798	69.298	69.576	1.00	59.60
ATOM	3645	C	GLU	468	45.727	73.500	66.355	1.00	59.60
ATOM	3646	O	GLU	468	44.545	73.796	66.515	1.00	59.60
ATOM	3647	N	LYS	469	46.727	74.333	66.678	1.00	112.93
ATOM	3648	CA	LYS	469	46.417	75.594	67.270	1.00	112.93
ATOM	3649	CB	LYS	469	47.667	76.439	67.556	1.00	112.93
ATOM	3650	CG	LYS	469	47.383	77.942	67.501	1.00	112.93
ATOM	3651	CD	LYS	469	46.302	78.463	68.447	1.00	112.93
ATOM	3652	CE	LYS	469	45.805	79.846	68.015	1.00	112.93
ATOM	3653	NZ	LYS	469	44.771	80.340	68.945	1.00	112.93
ATOM	3654	C	LYS	469	45.559	76.367	66.325	1.00	112.93
ATOM	3655	O	LYS	469	44.522	76.905	66.711	1.00	112.93
ATOM	3656	N	ALA	470	45.938	76.387	65.037	1.00	59.24
ATOM	3657	CA	ALA	470	45.235	77.222	64.115	1.00	59.24
ATOM	3658	CB	ALA	470	45.793	77.111	62.688	1.00	59.24
ATOM	3659	C	ALA	470	43.788	76.832	64.069	1.00	59.24
ATOM	3660	O	ALA	470	42.915	77.674	64.271	1.00	59.24
ATOM	3661	N	VAL	471	43.491	75.532	63.891	1.00	65.71
ATOM	3662	CA	VAL	471	42.127	75.115	63.736	1.00	65.71
ATOM	3663	CB	VAL	471	41.985	73.634	63.508	1.00	65.71
ATOM	3664	CG1	VAL	471	42.562	73.285	62.126	1.00	65.71
ATOM	3665	CG2	VAL	471	42.689	72.888	64.654	1.00	65.71
ATOM	3666	C	VAL	471	41.343	75.485	64.952	1.00	65.71
ATOM	3667	O	VAL	471	40.310	76.143	64.846	1.00	65.71
ATOM	3668	N	LYS	472	41.858	75.148	66.147	1.00	103.90
ATOM	3669	CA	LYS	472	41.129	75.393	67.358	1.00	103.90
ATOM	3670	CB	LYS	472	41.920	75.014	68.623	1.00	103.90
ATOM	3671	CG	LYS	472	42.112	73.506	68.825	1.00	103.90
ATOM	3672	CD	LYS	472	43.239	73.171	69.806	1.00	103.90
ATOM	3673	CE	LYS	472	43.460	71.674	70.038	1.00	103.90
ATOM	3674	NZ	LYS	472	42.583	71.189	71.125	1.00	103.90
ATOM	3675	C	LYS	472	40.829	76.860	67.432	1.00	103.90
ATOM	3676	O	LYS	472	39.758	77.255	67.889	1.00	103.90
ATOM	3677	N	GLU	473	41.764	77.708	66.964	1.00	111.50
ATOM	3678	CA	GLU	473	41.581	79.134	67.017	1.00	111.50
ATOM	3679	CB	GLU	473	42.810	79.865	66.444	1.00	111.50
ATOM	3680	CG	GLU	473	42.964	81.320	66.893	1.00	111.50
ATOM	3681	CD	GLU	473	41.892	82.157	66.228	1.00	111.50
ATOM	3682	OE1	GLU	473	41.942	82.319	64.979	1.00	111.50
ATOM	3683	OE2	GLU	473	41.001	82.647	66.969	1.00	111.50
ATOM	3684	C	GLU	473	40.384	79.494	66.173	1.00	111.50
ATOM	3685	O	GLU	473	39.543	80.309	66.549	1.00	111.50
ATOM	3686	N	ALA	474	40.322	78.867	64.990	1.00	131.57
ATOM	3687	CA	ALA	474	39.368	78.903	63.913	1.00	131.57
ATOM	3688	CB	ALA	474	39.902	78.269	62.616	1.00	131.57
ATOM	3689	C	ALA	474	38.083	78.210	64.261	1.00	131.57
ATOM	3690	O	ALA	474	37.275	77.987	63.369	1.00	131.57
ATOM	3691	N	ASN	475	37.979	77.608	65.458	1.00	124.51
ATOM	3692	CA	ASN	475	36.816	76.874	65.907	1.00	124.51
ATOM	3693	CB	ASN	475	35.507	77.685	66.140	1.00	124.51

ATOM	3694	CG	ASN	475	34.749	78.090	64.872	1.00124.51	C
ATOM	3695	OD1	ASN	475	35.118	79.018	64.156	1.00124.51	O
ATOM	3696	ND2	ASN	475	33.604	77.399	64.614	1.00124.51	N
ATOM	3697	C	ASN	475	36.539	75.760	64.939	1.00124.51	C
ATOM	3698	O	ASN	475	35.388	75.430	64.663	1.00124.51	O
ATOM	3699	N	ALA	476	37.611	75.262	64.296	1.00 95.31	N
ATOM	3700	CA	ALA	476	37.667	74.123	63.415	1.00 95.31	C
ATOM	3701	CB	ALA	476	38.844	74.203	62.429	1.00 95.31	C
ATOM	3702	C	ALA	476	37.778	72.818	64.148	1.00 95.31	C
ATOM	3703	O	ALA	476	37.330	71.776	63.675	1.00 95.31	O
ATOM	3704	N	TYR	477	38.406	72.854	65.334	1.00102.10	N
ATOM	3705	CA	TYR	477	38.868	71.689	66.035	1.00102.10	C
ATOM	3706	CB	TYR	477	39.501	72.052	67.391	1.00102.10	C
ATOM	3707	CG	TYR	477	40.120	70.821	67.956	1.00102.10	C
ATOM	3708	CD1	TYR	477	41.262	70.307	67.386	1.00102.10	C
ATOM	3709	CD2	TYR	477	39.584	70.195	69.057	1.00102.10	C
ATOM	3710	CE1	TYR	477	41.853	69.175	67.894	1.00102.10	C
ATOM	3711	CE2	TYR	477	40.172	69.062	69.570	1.00102.10	C
ATOM	3712	CZ	TYR	477	41.307	68.550	68.987	1.00102.10	C
ATOM	3713	OH	TYR	477	41.915	67.389	69.509	1.00102.10	O
ATOM	3714	C	TYR	477	37.788	70.675	66.276	1.00102.10	C
ATOM	3715	O	TYR	477	38.063	69.479	66.217	1.00102.10	O
ATOM	3716	N	ASP	478	36.552	71.087	66.607	1.00 77.71	N
ATOM	3717	CA	ASP	478	35.550	70.100	66.913	1.00 77.71	C
ATOM	3718	CB	ASP	478	34.256	70.719	67.491	1.00 77.71	C
ATOM	3719	CG	ASP	478	33.672	71.741	66.520	1.00 77.71	C
ATOM	3720	OD1	ASP	478	34.393	72.160	65.577	1.00 77.71	O
ATOM	3721	OD2	ASP	478	32.494	72.137	66.719	1.00 77.71	O
ATOM	3722	C	ASP	478	35.181	69.200	65.757	1.00 77.71	C
ATOM	3723	O	ASP	478	35.319	67.983	65.857	1.00 77.71	O
ATOM	3724	N	PHE	479	34.748	69.755	64.609	1.00 75.65	N
ATOM	3725	CA	PHE	479	34.258	68.930	63.536	1.00 75.65	C
ATOM	3726	CB	PHE	479	33.554	69.710	62.403	1.00 75.65	C
ATOM	3727	CG	PHE	479	34.479	70.646	61.701	1.00 75.65	C
ATOM	3728	CD1	PHE	479	35.310	70.198	60.699	1.00 75.65	C
ATOM	3729	CD2	PHE	479	34.491	71.983	62.027	1.00 75.65	C
ATOM	3730	CE1	PHE	479	36.150	71.070	60.047	1.00 75.65	C
ATOM	3731	CE2	PHE	479	35.329	72.860	61.379	1.00 75.65	C
ATOM	3732	CZ	PHE	479	36.161	72.403	60.387	1.00 75.65	C
ATOM	3733	C	PHE	479	35.358	68.110	62.956	1.00 75.65	C
ATOM	3734	O	PHE	479	35.161	66.950	62.594	1.00 75.65	O
ATOM	3735	N	ILE	480	36.558	68.693	62.856	1.00 77.43	N
ATOM	3736	CA	ILE	480	37.666	67.980	62.304	1.00 77.43	C
ATOM	3737	CB	ILE	480	38.921	68.791	62.309	1.00 77.43	C
ATOM	3738	CG1	ILE	480	39.231	69.201	63.754	1.00 77.43	C
ATOM	3739	CG2	ILE	480	38.759	69.962	61.325	1.00 77.43	C
ATOM	3740	CD1	ILE	480	40.604	69.819	63.955	1.00 77.43	C
ATOM	3741	C	ILE	480	37.873	66.768	63.144	1.00 77.43	C
ATOM	3742	O	ILE	480	38.257	65.723	62.625	1.00 77.43	O
ATOM	3743	N	MET	481	37.706	66.892	64.474	1.00 68.11	N
ATOM	3744	CA	MET	481	37.860	65.749	65.329	1.00 68.11	C
ATOM	3745	CB	MET	481	37.948	66.104	66.818	1.00 68.11	C
ATOM	3746	CG	MET	481	39.287	66.745	67.176	1.00 68.11	C
ATOM	3747	SD	MET	481	40.724	65.724	66.727	1.00 68.11	S
ATOM	3748	CE	MET	481	40.184	64.250	67.640	1.00 68.11	C
ATOM	3749	C	MET	481	36.765	64.724	65.160	1.00 68.11	C
ATOM	3750	O	MET	481	37.054	63.533	65.073	1.00 68.11	O
ATOM	3751	N	LYS	482	35.480	65.142	65.112	1.00108.14	N
ATOM	3752	CA	LYS	482	34.382	64.207	65.018	1.00108.14	C
ATOM	3753	CB	LYS	482	33.000	64.886	65.148	1.00108.14	C
ATOM	3754	CG	LYS	482	31.791	63.939	65.102	1.00108.14	C
ATOM	3755	CD	LYS	482	31.517	63.310	63.733	1.00108.14	C
ATOM	3756	CE	LYS	482	30.406	62.255	63.740	1.00108.14	C
ATOM	3757	NZ	LYS	482	30.937	60.960	64.222	1.00108.14	N
ATOM	3758	C	LYS	482	34.453	63.527	63.695	1.00108.14	C
ATOM	3759	O	LYS	482	34.229	62.322	63.580	1.00108.14	O
ATOM	3760	N	LEU	483	34.801	64.310	62.664	1.00143.51	N
ATOM	3761	CA	LEU	483	34.918	63.855	61.316	1.00143.51	C
ATOM	3762	CB	LEU	483	35.613	64.946	60.465	1.00143.51	C
ATOM	3763	CG	LEU	483	35.600	64.850	58.923	1.00143.51	C
ATOM	3764	CD1	LEU	483	36.186	63.550	58.371	1.00143.51	C
ATOM	3765	CD2	LEU	483	34.222	65.201	58.359	1.00143.51	C
ATOM	3766	C	LEU	483	35.848	62.686	61.404	1.00143.51	C
ATOM	3767	O	LEU	483	36.794	62.705	62.189	1.00143.51	O

ATOM	3768	N	PRO	484	35.599	61.650	60.656	1.00	94.13	N
ATOM	3769	CA	PRO	484	36.406	60.465	60.689	1.00	94.13	C
ATOM	3770	CD	PRO	484	34.438	61.530	59.791	1.00	94.13	C
ATOM	3771	CB	PRO	484	35.680	59.454	59.799	1.00	94.13	C
ATOM	3772	CG	PRO	484	34.759	60.311	58.911	1.00	94.13	C
ATOM	3773	C	PRO	484	37.757	60.828	60.195	1.00	94.13	C
ATOM	3774	O	PRO	484	37.915	61.954	59.755	1.00	94.13	O
ATOM	3775	N	HIS	485	38.760	59.954	60.371	1.00	105.84	N
ATOM	3776	CA	HIS	485	40.082	60.104	59.822	1.00	105.84	C
ATOM	3777	ND1	HIS	485	40.505	58.255	56.924	1.00	105.84	N
ATOM	3778	CG	HIS	485	39.642	59.198	57.441	1.00	105.84	C
ATOM	3779	CB	HIS	485	40.072	60.348	58.298	1.00	105.84	C
ATOM	3780	NE2	HIS	485	38.479	57.733	56.175	1.00	105.84	N
ATOM	3781	CD2	HIS	485	38.406	58.858	56.970	1.00	105.84	C
ATOM	3782	CE1	HIS	485	39.759	57.403	56.176	1.00	105.84	C
ATOM	3783	C	HIS	485	40.844	61.271	60.387	1.00	105.84	C
ATOM	3784	O	HIS	485	42.057	61.324	60.191	1.00	105.84	O
ATOM	3785	N	LYS	486	40.215	62.197	61.143	1.00	140.69	N
ATOM	3786	CA	LYS	486	40.981	63.275	61.726	1.00	140.69	C
ATOM	3787	CB	LYS	486	42.223	62.794	62.496	1.00	140.69	C
ATOM	3788	CG	LYS	486	41.869	61.960	63.728	1.00	140.69	C
ATOM	3789	CD	LYS	486	43.060	61.209	64.324	1.00	140.69	C
ATOM	3790	CE	LYS	486	44.129	62.135	64.907	1.00	140.69	C
ATOM	3791	NZ	LYS	486	43.680	62.670	66.211	1.00	140.69	N
ATOM	3792	C	LYS	486	41.418	64.301	60.706	1.00	140.69	C
ATOM	3793	O	LYS	486	40.703	64.649	59.773	1.00	140.69	O
ATOM	3794	N	PHE	487	42.616	64.873	60.924	1.00	91.15	N
ATOM	3795	CA	PHE	487	43.228	65.888	60.100	1.00	91.15	C
ATOM	3796	CB	PHE	487	44.511	66.447	60.737	1.00	91.15	C
ATOM	3797	CG	PHE	487	44.103	67.176	61.971	1.00	91.15	C
ATOM	3798	CD1	PHE	487	43.714	68.493	61.892	1.00	91.15	C
ATOM	3799	CD2	PHE	487	44.102	66.549	63.198	1.00	91.15	C
ATOM	3800	CE1	PHE	487	43.334	69.178	63.021	1.00	91.15	C
ATOM	3801	CE2	PHE	487	43.723	67.230	64.332	1.00	91.15	C
ATOM	3802	CZ	PHE	487	43.339	68.546	64.242	1.00	91.15	C
ATOM	3803	C	PHE	487	43.594	65.297	58.778	1.00	91.15	C
ATOM	3804	O	PHE	487	43.654	65.978	57.754	1.00	91.15	O
ATOM	3805	N	ASP	488	43.907	63.999	58.815	1.00	114.71	N
ATOM	3806	CA	ASP	488	44.339	63.205	57.711	1.00	114.71	C
ATOM	3807	CB	ASP	488	44.784	61.815	58.182	1.00	114.71	C
ATOM	3808	CG	ASP	488	45.778	61.276	57.180	1.00	114.71	C
ATOM	3809	OD1	ASP	488	45.405	61.112	55.990	1.00	114.71	O
ATOM	3810	OD2	ASP	488	46.938	61.022	57.603	1.00	114.71	O
ATOM	3811	C	ASP	488	43.202	63.049	56.746	1.00	114.71	C
ATOM	3812	O	ASP	488	43.418	62.645	55.604	1.00	114.71	O
ATOM	3813	N	THR	489	41.955	63.316	57.194	1.00	81.18	N
ATOM	3814	CA	THR	489	40.800	63.140	56.349	1.00	81.18	C
ATOM	3815	CB	THR	489	39.545	63.781	56.844	1.00	81.18	C
ATOM	3816	OG1	THR	489	39.279	63.315	58.137	1.00	81.18	O
ATOM	3817	CG2	THR	489	38.358	63.417	55.934	1.00	81.18	C
ATOM	3818	C	THR	489	41.036	63.881	55.079	1.00	81.18	C
ATOM	3819	O	THR	489	41.771	64.865	55.057	1.00	81.18	O
ATOM	3820	N	LEU	490	40.396	63.405	53.990	1.00	171.41	N
ATOM	3821	CA	LEU	490	40.500	63.980	52.680	1.00	171.41	C
ATOM	3822	CB	LEU	490	40.215	63.023	51.519	1.00	171.41	C
ATOM	3823	CG	LEU	490	41.134	61.822	51.341	1.00	171.41	C
ATOM	3824	CD1	LEU	490	41.088	60.876	52.553	1.00	171.41	C
ATOM	3825	CD2	LEU	490	40.756	61.127	50.027	1.00	171.41	C
ATOM	3826	C	LEU	490	39.391	64.949	52.481	1.00	171.41	C
ATOM	3827	O	LEU	490	38.720	65.380	53.420	1.00	171.41	O
ATOM	3828	N	VAL	491	39.228	65.376	51.206	1.00	105.68	N
ATOM	3829	CA	VAL	491	38.086	66.179	50.926	1.00	105.68	C
ATOM	3830	CB	VAL	491	38.391	67.647	50.844	1.00	105.68	C
ATOM	3831	CG1	VAL	491	37.085	68.394	50.535	1.00	105.68	C
ATOM	3832	CG2	VAL	491	39.053	68.099	52.156	1.00	105.68	C
ATOM	3833	C	VAL	491	37.495	65.752	49.611	1.00	105.68	C
ATOM	3834	O	VAL	491	37.678	66.439	48.609	1.00	105.68	O
ATOM	3835	N	GLY	492	36.854	64.561	49.592	1.00	76.05	N
ATOM	3836	CA	GLY	492	35.965	64.036	48.582	1.00	76.05	C
ATOM	3837	C	GLY	492	36.106	64.684	47.242	1.00	76.05	C
ATOM	3838	O	GLY	492	35.108	65.133	46.681	1.00	76.05	O
ATOM	3839	N	GLU	493	37.317	64.712	46.667	1.00	153.64	N
ATOM	3840	CA	GLU	493	37.478	65.319	45.380	1.00	153.64	C
ATOM	3841	CB	GLU	493	36.903	64.482	44.232	1.00	153.64	C

ATOM	3842	CG	GLU	493	37.119	65.147	42.876	1.00153.64	C
ATOM	3843	CD	GLU	493	36.312	64.382	41.845	1.00153.64	C
ATOM	3844	OE1	GLU	493	35.423	63.590	42.255	1.00153.64	O
ATOM	3845	OE2	GLU	493	36.570	64.589	40.630	1.00153.64	O
ATOM	3846	C	GLU	493	36.869	66.686	45.278	1.00153.64	C
ATOM	3847	O	GLU	493	35.731	66.845	44.839	1.00153.64	O
ATOM	3848	N	ARG	494	37.609	67.701	45.763	1.00203.90	N
ATOM	3849	CA	ARG	494	37.250	69.088	45.688	1.00203.90	C
ATOM	3850	CB	ARG	494	36.330	69.495	44.515	1.00203.90	C
ATOM	3851	CG	ARG	494	36.440	70.979	44.124	1.00203.90	C
ATOM	3852	CD	ARG	494	35.238	71.851	44.506	1.00203.90	C
ATOM	3853	NE	ARG	494	35.508	73.240	44.021	1.00203.90	N
ATOM	3854	CZ	ARG	494	35.803	74.237	44.909	1.00203.90	C
ATOM	3855	NH1	ARG	494	35.803	73.971	46.247	1.00203.90	N
ATOM	3856	NH2	ARG	494	36.077	75.500	44.470	1.00203.90	N
ATOM	3857	C	ARG	494	36.631	69.421	46.972	1.00203.90	C
ATOM	3858	O	ARG	494	36.546	68.588	47.866	1.00203.90	O
ATOM	3859	N	GLY	495	36.157	70.657	47.065	1.00120.77	N
ATOM	3860	CA	GLY	495	35.582	71.218	48.239	1.00120.77	C
ATOM	3861	C	GLY	495	34.349	70.466	48.618	1.00120.77	C
ATOM	3862	O	GLY	495	33.722	70.833	49.603	1.00120.77	O
ATOM	3863	N	ALA	496	33.856	69.515	47.795	1.00130.84	N
ATOM	3864	CA	ALA	496	32.581	68.975	48.198	1.00130.84	C
ATOM	3865	CB	ALA	496	31.672	68.687	46.993	1.00130.84	C
ATOM	3866	C	ALA	496	32.638	67.714	49.016	1.00130.84	C
ATOM	3867	O	ALA	496	32.515	66.615	48.477	1.00130.84	O
ATOM	3868	N	GLN	497	33.011	67.794	50.308	1.00171.23	N
ATOM	3869	CA	GLN	497	32.733	66.737	51.238	1.00171.23	C
ATOM	3870	CB	GLN	497	34.032	66.219	51.860	1.00171.23	C
ATOM	3871	CG	GLN	497	33.921	64.841	52.498	1.00171.23	C
ATOM	3872	CD	GLN	497	35.350	64.345	52.630	1.00171.23	C
ATOM	3873	OE1	GLN	497	36.276	65.140	52.783	1.00171.23	O
ATOM	3874	NE2	GLN	497	35.545	63.002	52.542	1.00171.23	N
ATOM	3875	C	GLN	497	31.783	67.193	52.323	1.00171.23	C
ATOM	3876	O	GLN	497	30.896	66.460	52.763	1.00171.23	O
ATOM	3877	N	LEU	498	31.986	68.461	52.777	1.00207.51	N
ATOM	3878	CA	LEU	498	31.390	68.989	53.984	1.00207.51	C
ATOM	3879	CB	LEU	498	32.421	69.427	55.040	1.00207.51	C
ATOM	3880	CG	LEU	498	33.542	68.419	55.340	1.00207.51	C
ATOM	3881	CD1	LEU	498	32.990	67.079	55.843	1.00207.51	C
ATOM	3882	CD2	LEU	498	34.501	68.287	54.146	1.00207.51	C
ATOM	3883	C	LEU	498	30.651	70.262	53.705	1.00207.51	C
ATOM	3884	O	LEU	498	30.647	70.792	52.596	1.00207.51	O
ATOM	3885	N	SER	499	30.017	70.803	54.767	1.00 58.33	N
ATOM	3886	CA	SER	499	29.242	72.001	54.654	1.00 58.33	C
ATOM	3887	CB	SER	499	28.408	72.307	55.905	1.00 58.33	C
ATOM	3888	OG	SER	499	29.271	72.606	56.991	1.00 58.33	O
ATOM	3889	C	SER	499	30.141	73.172	54.426	1.00 58.33	C
ATOM	3890	O	SER	499	31.233	73.275	54.986	1.00 58.33	O
ATOM	3891	N	GLY	500	29.627	74.135	53.641	1.00 52.65	N
ATOM	3892	CA	GLY	500	30.341	75.314	53.251	1.00 52.65	C
ATOM	3893	C	GLY	500	30.736	76.006	54.503	1.00 52.65	C
ATOM	3894	O	GLY	500	31.745	76.711	54.549	1.00 52.65	O
ATOM	3895	N	GLY	501	29.917	75.845	55.554	1.00 54.63	N
ATOM	3896	CA	GLY	501	30.245	76.525	56.765	1.00 54.63	C
ATOM	3897	C	GLY	501	31.605	76.078	57.214	1.00 54.63	C
ATOM	3898	O	GLY	501	32.479	76.909	57.440	1.00 54.63	O
ATOM	3899	N	GLN	502	31.845	74.754	57.297	1.00 75.96	N
ATOM	3900	CA	GLN	502	33.102	74.242	57.772	1.00 75.96	C
ATOM	3901	CB	GLN	502	33.094	72.709	57.877	1.00 75.96	C
ATOM	3902	CG	GLN	502	32.076	72.197	58.895	1.00 75.96	C
ATOM	3903	CD	GLN	502	32.005	70.682	58.787	1.00 75.96	C
ATOM	3904	OE1	GLN	502	32.472	70.094	57.814	1.00 75.96	O
ATOM	3905	NE2	GLN	502	31.399	70.031	59.814	1.00 75.96	N
ATOM	3906	C	GLN	502	34.176	74.617	56.807	1.00 75.96	C
ATOM	3907	O	GLN	502	35.282	74.976	57.210	1.00 75.96	O
ATOM	3908	N	LYS	503	33.853	74.565	55.501	1.00191.17	N
ATOM	3909	CA	LYS	503	34.814	74.851	54.474	1.00191.17	C
ATOM	3910	CB	LYS	503	34.139	74.990	53.097	1.00191.17	C
ATOM	3911	CG	LYS	503	33.635	73.685	52.477	1.00191.17	C
ATOM	3912	CD	LYS	503	34.751	72.811	51.915	1.00191.17	C
ATOM	3913	CE	LYS	503	35.438	73.455	50.708	1.00191.17	C
ATOM	3914	NZ	LYS	503	34.434	73.836	49.687	1.00191.17	N
ATOM	3915	C	LYS	503	35.384	76.194	54.778	1.00191.17	C

ATOM	3916	O	LYS	503	36.585	76.356	54.993	1.00	191.17	
ATOM	3917	N	GLN	504	34.483	77.165	54.950	1.00	93.00	
ATOM	3918	CA	GLN	504	34.855	78.522	55.199	1.00	93.00	
ATOM	3919	CB	GLN	504	33.608	79.367	55.505	1.00	93.00	
ATOM	3920	CG	GLN	504	33.913	80.776	56.000	1.00	93.00	
ATOM	3921	CD	GLN	504	34.683	81.491	54.909	1.00	93.00	
ATOM	3922	OE1	GLN	504	35.780	81.983	55.154	1.00	93.00	
ATOM	3923	NE2	GLN	504	34.109	81.553	53.678	1.00	93.00	
ATOM	3924	C	GLN	504	35.724	78.533	56.411	1.00	93.00	
ATOM	3925	O	GLN	504	36.762	79.196	56.438	1.00	93.00	
ATOM	3926	N	ARG	505	35.344	77.750	57.434	1.00	142.75	
ATOM	3927	CA	ARG	505	36.096	77.767	58.652	1.00	142.75	
ATOM	3928	CB	ARG	505	35.515	76.849	59.743	1.00	142.75	
ATOM	3929	CG	ARG	505	34.374	77.495	60.532	1.00	142.75	
ATOM	3930	CD	ARG	505	33.786	76.618	61.642	1.00	142.75	
ATOM	3931	NE	ARG	505	32.693	75.792	61.058	1.00	142.75	
ATOM	3932	CZ	ARG	505	31.849	75.100	61.881	1.00	142.75	
ATOM	3933	NH1	ARG	505	32.050	75.104	63.231	1.00	142.75	
ATOM	3934	NH2	ARG	505	30.800	74.406	61.352	1.00	142.75	
ATOM	3935	C	ARG	505	37.495	77.330	58.390	1.00	142.75	
ATOM	3936	O	ARG	505	38.441	78.015	58.779	1.00	142.75	
ATOM	3937	N	ILE	506	37.660	76.223	57.649	1.00	71.69	
ATOM	3938	CA	ILE	506	38.969	75.676	57.433	1.00	71.69	
ATOM	3939	CB	ILE	506	38.942	74.465	56.547	1.00	71.69	
ATOM	3940	CG1	ILE	506	38.136	73.346	57.232	1.00	71.69	
ATOM	3941	CG2	ILE	506	40.392	74.072	56.216	1.00	71.69	
ATOM	3942	CD1	ILE	506	37.772	72.183	56.310	1.00	71.69	
ATOM	3943	C	ILE	506	39.797	76.739	56.792	1.00	71.69	
ATOM	3944	O	ILE	506	40.957	76.935	57.154	1.00	71.69	
ATOM	3945	N	ALA	507	39.189	77.500	55.867	1.00	68.29	
ATOM	3946	CA	ALA	507	39.931	78.513	55.179	1.00	68.29	
ATOM	3947	CB	ALA	507	39.071	79.299	54.174	1.00	68.29	
ATOM	3948	C	ALA	507	40.461	79.489	56.176	1.00	68.29	
ATOM	3949	O	ALA	507	41.643	79.824	56.157	1.00	68.29	
ATOM	3950	N	ILE	508	39.616	79.899	57.134	1.00	116.70	
ATOM	3951	CA	ILE	508	39.991	80.886	58.106	1.00	116.70	
ATOM	3952	CB	ILE	508	38.960	81.029	59.190	1.00	116.70	
ATOM	3953	CG1	ILE	508	37.598	81.468	58.618	1.00	116.70	
ATOM	3954	CG2	ILE	508	39.532	81.964	60.269	1.00	116.70	
ATOM	3955	CD1	ILE	508	37.603	82.838	57.947	1.00	116.70	
ATOM	3956	C	ILE	508	41.216	80.380	58.781	1.00	116.70	
ATOM	3957	O	ILE	508	42.142	81.137	59.065	1.00	116.70	
ATOM	3958	N	ALA	509	41.248	79.067	59.047	1.00		

ATOM	3990	CG1	VAL	513	50.165	78.684	59.311	1.00	65.00	C
ATOM	3991	CG2	VAL	513	47.747	77.919	59.787	1.00	65.00	C
ATOM	3992	C	VAL	513	49.218	81.330	59.150	1.00	65.00	C
ATOM	3993	O	VAL	513	50.348	81.592	59.560	1.00	65.00	O
ATOM	3994	N	ARG	514	48.685	81.929	58.072	1.00	182.89	N
ATOM	3995	CA	ARG	514	49.373	82.954	57.339	1.00	182.89	C
ATOM	3996	CB	ARG	514	48.512	83.525	56.199	1.00	182.89	C
ATOM	3997	CG	ARG	514	48.181	82.501	55.108	1.00	182.89	C
ATOM	3998	CD	ARG	514	48.817	82.802	53.748	1.00	182.89	C
ATOM	3999	NE	ARG	514	50.261	82.443	53.826	1.00	182.89	N
ATOM	4000	CZ	ARG	514	51.145	82.998	52.947	1.00	182.89	C
ATOM	4001	NH1	ARG	514	50.700	83.881	52.008	1.00	182.89	N
ATOM	4002	NH2	ARG	514	52.471	82.678	53.009	1.00	182.89	N
ATOM	4003	C	ARG	514	49.662	84.074	58.310	1.00	182.89	C
ATOM	4004	O	ARG	514	50.698	84.731	58.220	1.00	182.89	O
ATOM	4005	N	ASN	515	48.729	84.310	59.259	1.00	104.02	N
ATOM	4006	CA	ASN	515	48.788	85.284	60.333	1.00	104.02	C
ATOM	4007	CB	ASN	515	49.521	84.812	61.612	1.00	104.02	C
ATOM	4008	CG	ASN	515	51.017	84.643	61.375	1.00	104.02	C
ATOM	4009	OD1	ASN	515	51.451	83.855	60.538	1.00	104.02	O
ATOM	4010	ND2	ASN	515	51.828	85.421	62.140	1.00	104.02	N
ATOM	4011	C	ASN	515	49.297	86.644	59.923	1.00	104.02	C
ATOM	4012	O	ASN	515	50.436	87.032	60.180	1.00	104.02	O
ATOM	4013	N	PRO	516	48.426	87.362	59.271	1.00	138.18	N
ATOM	4014	CA	PRO	516	48.646	88.693	58.748	1.00	138.18	C
ATOM	4015	CD	PRO	516	47.229	86.747	58.724	1.00	138.18	C
ATOM	4016	CB	PRO	516	47.655	88.843	57.616	1.00	138.18	C
ATOM	4017	CG	PRO	516	46.512	87.889	57.995	1.00	138.18	C
ATOM	4018	C	PRO	516	48.433	89.812	59.730	1.00	138.18	C
ATOM	4019	O	PRO	516	48.201	89.572	60.911	1.00	138.18	O
ATOM	4020	N	LYS	517	48.708	91.042	59.263	1.00	190.25	N
ATOM	4021	CA	LYS	517	48.476	92.331	59.860	1.00	190.25	C
ATOM	4022	CB	LYS	517	49.570	93.328	59.439	1.00	190.25	C
ATOM	4023	CG	LYS	517	50.989	92.824	59.733	1.00	190.25	C
ATOM	4024	CD	LYS	517	51.426	91.653	58.843	1.00	190.25	C
ATOM	4025	CE	LYS	517	52.818	91.100	59.158	1.00	190.25	C
ATOM	4026	NZ	LYS	517	52.761	90.203	60.335	1.00	190.25	N
ATOM	4027	C	LYS	517	47.160	92.909	59.434	1.00	190.25	C
ATOM	4028	O	LYS	517	46.588	93.762	60.114	1.00	190.25	O
ATOM	4029	N	ILE	518	46.709	92.537	58.220	1.00	83.78	N
ATOM	4030	CA	ILE	518	45.514	93.097	57.667	1.00	83.78	C
ATOM	4031	CB	ILE	518	45.775	93.954	56.467	1.00	83.78	C
ATOM	4032	CG1	ILE	518	46.763	95.058	56.862	1.00	83.78	C
ATOM	4033	CG2	ILE	518	44.438	94.508	55.945	1.00	83.78	C
ATOM	4034	CD1	ILE	518	47.324	95.829	55.674	1.00	83.78	C
ATOM	4035	C	ILE	518	44.660	91.952	57.248	1.00	83.78	C
ATOM	4036	O	ILE	518	45.167	90.911	56.831	1.00	83.78	O
ATOM	4037	N	LEU	519	43.329	92.102	57.381	1.00	128.05	N
ATOM	4038	CA	LEU	519	42.483	91.003	57.030	1.00	128.05	C
ATOM	4039	CB	LEU	519	41.917	90.302	58.283	1.00	128.05	C
ATOM	4040	CG	LEU	519	41.220	88.944	58.063	1.00	128.05	C
ATOM	4041	CD1	LEU	519	40.725	88.368	59.399	1.00	128.05	C
ATOM	4042	CD2	LEU	519	40.098	89.019	57.020	1.00	128.05	C
ATOM	4043	C	LEU	519	41.357	91.548	56.205	1.00	128.05	C
ATOM	4044	O	LEU	519	40.660	92.472	56.625	1.00	128.05	O
ATOM	4045	N	LEU	520	41.154	90.987	54.996	1.00	113.26	N
ATOM	4046	CA	LEU	520	40.081	91.430	54.154	1.00	113.26	C
ATOM	4047	CB	LEU	520	40.529	91.740	52.713	1.00	113.26	C
ATOM	4048	CG	LEU	520	41.450	92.968	52.583	1.00	113.26	C
ATOM	4049	CD1	LEU	520	42.698	92.830	53.468	1.00	113.26	C
ATOM	4050	CD2	LEU	520	41.813	93.234	51.111	1.00	113.26	C
ATOM	4051	C	LEU	520	39.076	90.327	54.072	1.00	113.26	C
ATOM	4052	O	LEU	520	39.415	89.167	53.846	1.00	113.26	O
ATOM	4053	N	LEU	521	37.790	90.657	54.277	1.00	130.75	N
ATOM	4054	CA	LEU	521	36.794	89.633	54.159	1.00	130.75	C
ATOM	4055	CB	LEU	521	35.881	89.519	55.389	1.00	130.75	C
ATOM	4056	CG	LEU	521	36.626	89.223	56.702	1.00	130.75	C
ATOM	4057	CD1	LEU	521	37.503	90.412	57.129	1.00	130.75	C
ATOM	4058	CD2	LEU	521	35.642	88.779	57.796	1.00	130.75	C
ATOM	4059	C	LEU	521	35.920	90.047	53.014	1.00	130.75	C
ATOM	4060	O	LEU	521	35.194	91.035	53.110	1.00	130.75	O
ATOM	4061	N	ASP	522	35.962	89.303	51.891	1.00	122.43	N
ATOM	4062	CA	ASP	522	35.151	89.663	50.764	1.00	122.43	C
ATOM	4063	CB	ASP	522	35.841	89.334	49.422	1.00	122.43	C

ATOM	4064	CG	ASP	522	35.176	90.115	48.293	1.00122.43
ATOM	4065	OD1	ASP	522	34.154	90.796	48.570	1.00122.43
ATOM	4066	OD2	ASP	522	35.686	90.045	47.143	1.00122.43
ATOM	4067	C	ASP	522	33.893	88.861	50.872	1.00122.43
ATOM	4068	O	ASP	522	33.754	87.805	50.258	1.00122.43
ATOM	4069	N	GLU	523	32.953	89.361	51.695	1.00204.94
ATOM	4070	CA	GLU	523	31.656	88.779	51.910	1.00204.94
ATOM	4071	CB	GLU	523	30.724	88.976	50.693	1.00204.94
ATOM	4072	CG	GLU	523	31.248	88.419	49.368	1.00204.94
ATOM	4073	CD	GLU	523	30.712	89.284	48.236	1.00204.94
ATOM	4074	OE1	GLU	523	30.505	90.501	48.484	1.00204.94
ATOM	4075	OE2	GLU	523	30.519	88.753	47.110	1.00204.94
ATOM	4076	C	GLU	523	31.773	87.341	52.333	1.00204.94
ATOM	4077	O	GLU	523	30.842	86.559	52.137	1.00204.94
ATOM	4078	N	ALA	524	32.846	87.014	53.093	1.00123.30
ATOM	4079	CA	ALA	524	33.186	85.642	53.347	1.00123.30
ATOM	4080	CB	ALA	524	34.346	85.500	54.347	1.00123.30
ATOM	4081	C	ALA	524	32.028	84.850	53.898	1.00123.30
ATOM	4082	O	ALA	524	31.550	83.949	53.221	1.00123.30
ATOM	4083	N	THR	525	31.416	85.241	55.025	1.00121.51
ATOM	4084	CA	THR	525	30.396	84.425	55.633	1.00121.51
ATOM	4085	CB	THR	525	29.814	85.087	56.827	1.00121.51
ATOM	4086	OG1	THR	525	30.813	85.269	57.817	1.00121.51
ATOM	4087	CG2	THR	525	28.683	84.204	57.347	1.00121.51
ATOM	4088	C	THR	525	29.252	84.169	54.693	1.00121.51
ATOM	4089	O	THR	525	28.625	83.113	54.764	1.00121.51
ATOM	4090	N	SER	526	28.959	85.118	53.787	1.00102.01
ATOM	4091	CA	SER	526	27.812	85.087	52.912	1.00102.01
ATOM	4092	CB	SER	526	27.822	86.214	51.864	1.00102.01
ATOM	4093	OG	SER	526	27.735	87.474	52.513	1.00102.01
ATOM	4094	C	SER	526	27.631	83.791	52.191	1.00102.01
ATOM	4095	O	SER	526	28.455	82.882	52.249	1.00102.01
ATOM	4096	N	ALA	527	26.460	83.682	51.523	1.00 58.47
ATOM	4097	CA	ALA	527	26.088	82.525	50.764	1.00 58.47
ATOM	4098	CB	ALA	527	26.953	82.312	49.511	1.00 58.47
ATOM	4099	C	ALA	527	26.245	81.338	51.646	1.00 58.47
ATOM	4100	O	ALA	527	26.819	80.330	51.238	1.00 58.47
ATOM	4101	N	LEU	528	25.762	81.445	52.899	1.00 84.04
ATOM	4102	CA	LEU	528	25.839	80.344	53.814	1.00 84.04
ATOM	4103	CB	LEU	528	27.117	80.405	54.666	1.00 84.04
ATOM	4104	CG	LEU	528	27.381	79.144	55.500	1.00 84.04
ATOM	4105	CD1	LEU	528	27.545	77.904	54.605	1.00 84.04
ATOM	4106	CD2	LEU	528	28.572	79.357	56.451	1.00 84.04
ATOM	4107	C	LEU	528	24.622	80.468	54.688	1.00 84.04
ATOM	4108	O	LEU	528	23.991	81.521	54.718	1.00 84.04
ATOM	4109	N	ASP	529	24.235	79.408	55.426	1.00 81.80
ATOM	4110	CA	ASP	529	23.019	79.509	56.196	1.00 81.80
ATOM	4111	CB	ASP	529	22.503	78.166	56.736	1.00 81.80
ATOM	4112	CG	ASP	529	23.536	77.638	57.712	1.00 81.80
ATOM	4113	OD1	ASP	529	24.536	77.026	57.252	1.00 81.80
ATOM	4114	OD2	ASP	529	23.332	77.837	58.939	1.00 81.80
ATOM	4115	C	ASP	529	23.215	80.453	57.360	1.00 81.80
ATOM	4116	O	ASP	529	24.345	80.760	57.733	1.00 81.80
ATOM	4117	N	THR	530	22.097	80.948	57.953	1.00147.73
ATOM	4118	CA	THR	530	22.095	81.907	59.040	1.00147.73
ATOM	4119	CB	THR	530	20.709	82.226	59.500	1.00147.73
ATOM	4120	OG1	THR	530	19.951	82.729	58.411	1.00147.73
ATOM	4121	CG2	THR	530	20.781	83.274	60.624	1.00147.73
ATOM	4122	C	THR	530	22.822	81.312	60.208	1.00147.73
ATOM	4123	O	THR	530	23.754	81.913	60.733	1.00147.73
ATOM	4124	N	GLU	531	22.473	80.076	60.606	1.00105.97
ATOM	4125	CA	GLU	531	23.032	79.512	61.804	1.00105.97
ATOM	4126	CB	GLU	531	22.518	78.078	62.032	1.00105.97
ATOM	4127	CG	GLU	531	23.230	77.316	63.149	1.00105.97
ATOM	4128	CD	GLU	531	24.337	76.497	62.503	1.00105.97
ATOM	4129	OE1	GLU	531	24.422	76.498	61.246	1.00105.97
ATOM	4130	OE2	GLU	531	25.108	75.844	63.255	1.00105.97
ATOM	4131	C	GLU	531	24.525	79.476	61.708	1.00105.97
ATOM	4132	O	GLU	531	25.228	79.966	62.593	1.00105.97
ATOM	4133	N	SER	532	25.051	78.946	60.597	1.00 70.66
ATOM	4134	CA	SER	532	26.467	78.818	60.461	1.00 70.66
ATOM	4135	CB	SER	532	26.851	78.061	59.182	1.00 70.66
ATOM	4136	OG	SER	532	26.362	78.770	58.056	1.00 70.66
ATOM	4137	C	SER	532	27.055	80.182	60.390	1.00 70.66



ATOM	4138	O	SER	532	28.064	80.441	61.039	1.00	70.66	O
ATOM	4139	N	LYS	533	26.385	81.112	59.673	1.00	119.73	N
ATOM	4140	CA	LYS	533	26.944	82.415	59.453	1.00	119.73	C
ATOM	4141	CB	LYS	533	26.031	83.381	58.680	1.00	119.73	C
ATOM	4142	CG	LYS	533	24.941	84.045	59.517	1.00	119.73	C
ATOM	4143	CD	LYS	533	24.245	85.188	58.781	1.00	119.73	C
ATOM	4144	CE	LYS	533	23.182	85.908	59.608	1.00	119.73	C
ATOM	4145	NZ	LYS	533	23.827	86.935	60.454	1.00	119.73	N
ATOM	4146	C	LYS	533	27.235	83.012	60.786	1.00	119.73	C
ATOM	4147	O	LYS	533	28.167	83.802	60.934	1.00	119.73	O
ATOM	4148	N	ALA	534	26.424	82.660	61.798	1.00	56.58	N
ATOM	4149	CA	ALA	534	26.720	83.158	63.107	1.00	56.58	C
ATOM	4150	CB	ALA	534	25.656	82.754	64.141	1.00	56.58	C
ATOM	4151	C	ALA	534	28.036	82.598	63.565	1.00	56.58	C
ATOM	4152	O	ALA	534	28.962	83.344	63.878	1.00	56.58	O
ATOM	4153	N	VAL	535	28.190	81.261	63.513	1.00	53.98	N
ATOM	4154	CA	VAL	535	29.371	80.609	64.012	1.00	53.98	C
ATOM	4155	CB	VAL	535	29.309	79.117	63.837	1.00	53.98	C
ATOM	4156	CG1	VAL	535	30.606	78.506	64.393	1.00	53.98	C
ATOM	4157	CG2	VAL	535	28.023	78.587	64.498	1.00	53.98	C
ATOM	4158	C	VAL	535	30.553	81.109	63.242	1.00	53.98	C
ATOM	4159	O	VAL	535	31.608	81.379	63.815	1.00	53.98	O
ATOM	4160	N	VAL	536	30.397	81.245	61.912	1.00	59.24	N
ATOM	4161	CA	VAL	536	31.461	81.656	61.040	1.00	59.24	C
ATOM	4162	CB	VAL	536	31.037	81.677	59.600	1.00	59.24	C
ATOM	4163	CG1	VAL	536	32.195	82.238	58.760	1.00	59.24	C
ATOM	4164	CG2	VAL	536	30.590	80.260	59.197	1.00	59.24	C
ATOM	4165	C	VAL	536	31.890	83.045	61.384	1.00	59.24	C
ATOM	4166	O	VAL	536	33.079	83.321	61.529	1.00	59.24	O
ATOM	4167	N	GLN	537	30.925	83.962	61.551	1.00	151.41	N
ATOM	4168	CA	GLN	537	31.294	85.309	61.864	1.00	151.41	C
ATOM	4169	CB	GLN	537	30.092	86.255	62.030	1.00	151.41	C
ATOM	4170	CG	GLN	537	29.423	86.651	60.714	1.00	151.41	C
ATOM	4171	CD	GLN	537	30.310	87.677	60.016	1.00	151.41	C
ATOM	4172	OE1	GLN	537	30.022	88.108	58.901	1.00	151.41	O
ATOM	4173	NE2	GLN	537	31.416	88.085	60.693	1.00	151.41	N
ATOM	4174	C	GLN	537	32.003	85.268	63.179	1.00	151.41	C
ATOM	4175	O	GLN	537	32.925	86.044	63.417	1.00	151.41	O
ATOM	4176	N	VAL	538	31.583	84.353	64.073	1.00	42.32	N
ATOM	4177	CA	VAL	538	32.176	84.270	65.377	1.00	42.32	C
ATOM	4178	CB	VAL	538	31.599	83.160	66.206	1.00	42.32	C
ATOM	4179	CG1	VAL	538	32.397	83.060	67.518	1.00	42.32	C
ATOM	4180	CG2	VAL	538	30.099	83.432	66.409	1.00	42.32	C
ATOM	4181	C	VAL	538	33.649	84.016	65.257	1.00	42.32	C
ATOM	4182	O	VAL	538	34.450	84.676	65.915	1.00	42.32	O
ATOM	4183	N	ALA	539	34.050	83.048	64.414	1.00	39.81	N
ATOM	4184	CA	ALA	539	35.439	82.726	64.237	1.00	39.81	C
ATOM	4185	CB	ALA	539	35.653	81.555	63.262	1.00	39.81	C
ATOM	4186	C	ALA	539	36.124	83.918	63.654	1.00	39.81	C
ATOM	4187	O	ALA	539	37.238	84.258	64.049	1.00	39.81	O
ATOM	4188	N	LEU	540	35.462	84.597	62.700	1.00	64.68	N
ATOM	4189	CA	LEU	540	36.062	85.733	62.069	1.00	64.68	C
ATOM	4190	CB	LEU	540	35.136	86.406	61.036	1.00	64.68	C
ATOM	4191	CG	LEU	540	34.916	85.573	59.759	1.00	64.68	C
ATOM	4192	CD1	LEU	540	33.986	86.288	58.764	1.00	64.68	C
ATOM	4193	CD2	LEU	540	36.262	85.194	59.119	1.00	64.68	C
ATOM	4194	C	LEU	540	36.328	86.737	63.136	1.00	64.68	C
ATOM	4195	O	LEU	540	37.428	87.279	63.217	1.00	64.68	O
ATOM	4196	N	ASP	541	35.340	86.961	64.023	1.00	62.09	N
ATOM	4197	CA	ASP	541	35.467	87.973	65.029	1.00	62.09	C
ATOM	4198	CB	ASP	541	34.234	88.082	65.948	1.00	62.09	C
ATOM	4199	CG	ASP	541	33.051	88.631	65.155	1.00	62.09	C
ATOM	4200	OD1	ASP	541	33.124	88.653	63.898	1.00	62.09	O
ATOM	4201	OD2	ASP	541	32.052	89.040	65.806	1.00	62.09	O
ATOM	4202	C	ASP	541	36.645	87.668	65.901	1.00	62.09	C
ATOM	4203	O	ASP	541	37.472	88.536	66.172	1.00	62.09	O
ATOM	4204	N	LYS	542	36.790	86.406	66.331	1.00	113.28	N
ATOM	4205	CA	LYS	542	37.869	86.079	67.210	1.00	113.28	C
ATOM	4206	CB	LYS	542	37.875	84.601	67.636	1.00	113.28	C
ATOM	4207	CG	LYS	542	36.648	84.215	68.468	1.00	113.28	C
ATOM	4208	CD	LYS	542	36.550	82.719	68.775	1.00	113.28	C
ATOM	4209	CE	LYS	542	36.412	81.834	67.535	1.00	113.28	C
ATOM	4210	NZ	LYS	542	35.022	81.875	67.029	1.00	113.28	N
ATOM	4211	C	LYS	542	39.149	86.378	66.495	1.00	113.28	C

ATOM	4212	O	LYS	542	40.166	86.645	67.127	1.00113.28
ATOM	4213	N	ALA	543	39.160	86.222	65.159	1.00 74.29
ATOM	4214	CA	ALA	543	40.339	86.465	64.370	1.00 74.29
ATOM	4215	CB	ALA	543	40.235	85.845	62.968	1.00 74.29
ATOM	4216	C	ALA	543	40.726	87.909	64.162	1.00 74.29
ATOM	4217	O	ALA	543	41.884	88.273	64.359	1.00 74.29
ATOM	4218	N	ARG	544	39.751	88.755	63.760	1.00117.00
ATOM	4219	CA	ARG	544	39.960	90.076	63.216	1.00117.00
ATOM	4220	CB	ARG	544	38.676	90.681	62.621	1.00117.00
ATOM	4221	CG	ARG	544	38.021	89.853	61.516	1.00117.00
ATOM	4222	CD	ARG	544	36.943	90.632	60.758	1.00117.00
ATOM	4223	NE	ARG	544	36.014	91.227	61.763	1.00117.00
ATOM	4224	CZ	ARG	544	34.891	90.559	62.155	1.00117.00
ATOM	4225	NH1	ARG	544	34.627	89.316	61.657	1.00117.00
ATOM	4226	NH2	ARG	544	34.036	91.129	63.056	1.00117.00
ATOM	4227	C	ARG	544	40.496	91.141	64.109	1.00117.00
ATOM	4228	O	ARG	544	41.427	91.803	63.686	1.00117.00
ATOM	4229	N	LYS	545	40.000	91.336	65.344	1.00155.97
ATOM	4230	CA	LYS	545	40.331	92.532	66.086	1.00155.97
ATOM	4231	CB	LYS	545	39.727	92.547	67.502	1.00155.97
ATOM	4232	CG	LYS	545	38.204	92.719	67.542	1.00155.97
ATOM	4233	CD	LYS	545	37.425	91.535	66.964	1.00155.97
ATOM	4234	CE	LYS	545	35.911	91.632	67.174	1.00155.97
ATOM	4235	NZ	LYS	545	35.373	92.818	66.472	1.00155.97
ATOM	4236	C	LYS	545	41.809	92.694	66.238	1.00155.97
ATOM	4237	O	LYS	545	42.323	93.803	66.099	1.00155.97
ATOM	4238	N	GLY	546	42.535	91.587	66.467	1.00 43.31
ATOM	4239	CA	GLY	546	43.950	91.656	66.678	1.00 43.31
ATOM	4240	C	GLY	546	44.546	92.340	65.488	1.00 43.31
ATOM	4241	O	GLY	546	45.548	93.044	65.601	1.00 43.31
ATOM	4242	N	ARG	547	43.923	92.142	64.312	1.00123.05
ATOM	4243	CA	ARG	547	44.406	92.669	63.064	1.00123.05
ATOM	4244	CB	ARG	547	44.471	91.578	61.980	1.00123.05
ATOM	4245	CG	ARG	547	45.591	90.559	62.218	1.00123.05
ATOM	4246	CD	ARG	547	45.511	89.300	61.349	1.00123.05
ATOM	4247	NE	ARG	547	44.714	88.269	62.075	1.00123.05
ATOM	4248	CZ	ARG	547	45.338	87.455	62.976	1.00123.05
ATOM	4249	NH1	ARG	547	46.644	87.678	63.298	1.00123.05
ATOM	4250	NH2	ARG	547	44.665	86.416	63.555	1.00123.05
ATOM	4251	C	ARG	547	43.541	93.798	62.530	1.00123.05
ATOM	4252	O	ARG	547	42.338	93.891	62.745	1.00123.05
ATOM	4253	N	THR	548	44.129	94.760	61.805	1.00143.93
ATOM	4254	CA	THR	548	43.244	95.751	61.254	1.00143.93
ATOM	4255	CB	THR	548	43.948	97.007	60.818	1.00143.93
ATOM	4256	OG1	THR	548	43.022	97.944	60.289	1.00143.93
ATOM	4257	CG2	THR	548	45.011	96.641	59.775	1.00143.93
ATOM	4258	C	THR	548	42.563	95.118	60.070	1.00143.93
ATOM	4259	O	THR	548	43.236	94.496	59.247	1.00143.93
ATOM	4260	N	THR	549	41.210	95.234	59.945	1.00182.87
ATOM	4261	CA	THR	549	40.609	94.521	58.839	1.00182.87
ATOM	4262	CB	THR	549	39.911	93.236	59.195	1.00182.87
ATOM	4263	OG1	THR	549	38.671	93.500	59.833	1.00182.87
ATOM	4264	CG2	THR	549	40.808	92.422	60.136	1.00182.87
ATOM	4265	C	THR	549	39.564	95.297	58.086	1.00182.87
ATOM	4266	O	THR	549	38.664	95.927	58.642	1.00182.87
ATOM	4267	N	ILE	550	39.620	95.178	56.748	1.00130.08
ATOM	4268	CA	ILE	550	38.665	95.823	55.895	1.00130.08
ATOM	4269	CB	ILE	550	39.355	96.508	54.743	1.00130.08
ATOM	4270	CG1	ILE	550	38.385	97.283	53.840	1.00130.08
ATOM	4271	CG2	ILE	550	40.175	95.441	53.998	1.00130.08
ATOM	4272	CD1	ILE	550	37.528	96.380	52.956	1.00130.08
ATOM	4273	C	ILE	550	37.724	94.756	55.402	1.00130.08
ATOM	4274	O	ILE	550	38.145	93.775	54.790	1.00130.08
ATOM	4275	N	VAL	551	36.407	94.909	55.686	1.00121.34
ATOM	4276	CA	VAL	551	35.450	93.909	55.281	1.00121.34
ATOM	4277	CB	VAL	551	34.737	93.260	56.431	1.00121.34
ATOM	4278	CG1	VAL	551	33.924	94.328	57.183	1.00121.34
ATOM	4279	CG2	VAL	551	33.875	92.117	55.871	1.00121.34
ATOM	4280	C	VAL	551	34.389	94.517	54.408	1.00121.34
ATOM	4281	O	VAL	551	33.823	95.565	54.715	1.00121.34
ATOM	4282	N	ILE	552	34.083	93.838	53.282	1.00137.49
ATOM	4283	CA	ILE	552	33.069	94.283	52.361	1.00137.49
ATOM	4284	CB	ILE	552	33.611	94.480	50.967	1.00137.49
ATOM	4285	CG1	ILE	552	32.569	95.075	50.000	1.00137.49

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ATOM	4286	CG2	ILE	552	34.184	93.132	50.501	1.00137.49	C
ATOM	4287	CD1	ILE	552	31.453	94.109	49.600	1.00137.49	C
ATOM	4288	C	ILE	552	32.031	93.214	52.346	1.00137.49	C
ATOM	4289	O	ILE	552	32.344	92.034	52.212	1.00137.49	O
ATOM	4290	N	ALA	553	30.746	93.571	52.519	1.00106.87	N
ATOM	4291	CA	ALA	553	29.851	92.459	52.519	1.00106.87	C
ATOM	4292	CB	ALA	553	29.989	91.564	53.763	1.00106.87	C
ATOM	4293	C	ALA	553	28.427	92.893	52.446	1.00106.87	C
ATOM	4294	O	ALA	553	28.086	94.074	52.520	1.00106.87	O
ATOM	4295	N	HIS	554	27.583	91.891	52.152	1.00161.17	N
ATOM	4296	CA	HIS	554	26.164	91.969	52.076	1.00161.17	C
ATOM	4297	ND1	HIS	554	25.550	91.973	48.856	1.00161.17	N
ATOM	4298	CG	HIS	554	26.068	91.066	49.756	1.00161.17	C
ATOM	4299	CB	HIS	554	25.568	90.899	51.154	1.00161.17	C
ATOM	4300	NE2	HIS	554	27.223	90.932	47.824	1.00161.17	N
ATOM	4301	CD2	HIS	554	27.086	90.441	49.110	1.00161.17	C
ATOM	4302	CE1	HIS	554	26.277	91.849	47.719	1.00161.17	C
ATOM	4303	C	HIS	554	25.457	91.858	53.407	1.00161.17	C
ATOM	4304	O	HIS	554	24.389	92.437	53.576	1.00161.17	O
ATOM	4305	N	ARG	555	25.996	91.110	54.391	1.00207.39	N
ATOM	4306	CA	ARG	555	25.215	90.804	55.563	1.00207.39	C
ATOM	4307	CB	ARG	555	25.889	89.759	56.470	1.00207.39	C
ATOM	4308	CG	ARG	555	26.384	88.502	55.746	1.00207.39	C
ATOM	4309	CD	ARG	555	25.298	87.502	55.347	1.00207.39	C
ATOM	4310	NE	ARG	555	24.948	87.762	53.922	1.00207.39	N
ATOM	4311	CZ	ARG	555	23.841	88.496	53.612	1.00207.39	C
ATOM	4312	NH1	ARG	555	23.038	88.965	54.611	1.00207.39	N
ATOM	4313	NH2	ARG	555	23.529	88.745	52.306	1.00207.39	N
ATOM	4314	C	ARG	555	25.085	92.026	56.375	1.00207.39	C
ATOM	4315	O	ARG	555	25.890	92.295	57.262	1.00207.39	O
ATOM	4316	N	LEU	556	23.987	92.747	56.147	1.00161.82	N
ATOM	4317	CA	LEU	556	23.772	93.966	56.851	1.00161.82	C
ATOM	4318	CB	LEU	556	22.419	94.634	56.553	1.00161.82	C
ATOM	4319	CG	LEU	556	22.267	95.164	55.117	1.00161.82	C
ATOM	4320	CD1	LEU	556	23.324	96.233	54.797	1.00161.82	C
ATOM	4321	CD2	LEU	556	22.222	94.021	54.098	1.00161.82	C
ATOM	4322	C	LEU	556	23.753	93.614	58.293	1.00161.82	C
ATOM	4323	O	LEU	556	24.225	94.378	59.128	1.00161.82	O
ATOM	4324	N	SER	557	23.240	92.417	58.618	1.00 79.38	N
ATOM	4325	CA	SER	557	23.176	92.052	60.005	1.00 79.38	C
ATOM	4326	CB	SER	557	22.597	90.641	60.230	1.00 79.38	C
ATOM	4327	OG	SER	557	23.462	89.649	59.697	1.00 79.38	O
ATOM	4328	C	SER	557	24.561	92.090	60.608	1.00 79.38	C
ATOM	4329	O	SER	557	24.748	92.626	61.698	1.00 79.38	O
ATOM	4330	N	THR	558	25.561	91.505	59.917	1.00114.29	N
ATOM	4331	CA	THR	558	26.938	91.400	60.345	1.00114.29	C
ATOM	4332	CB	THR	558	27.697	90.341	59.606	1.00114.29	C
ATOM	4333	OG1	THR	558	27.857	90.708	58.244	1.00114.29	O
ATOM	4334	CG2	THR	558	26.908	89.023	59.719	1.00114.29	C
ATOM	4335	C	THR	558	27.680	92.680	60.155	1.00114.29	C
ATOM	4336	O	THR	558	28.820	92.822	60.595	1.00114.29	O
ATOM	4337	N	VAL	559	27.114	93.583	59.347	1.00106.60	N
ATOM	4338	CA	VAL	559	27.741	94.835	59.077	1.00106.60	C
ATOM	4339	CB	VAL	559	27.014	95.621	58.029	1.00106.60	C
ATOM	4340	CG1	VAL	559	27.716	96.976	57.843	1.00106.60	C
ATOM	4341	CG2	VAL	559	26.955	94.772	56.747	1.00106.60	C
ATOM	4342	C	VAL	559	27.754	95.640	60.325	1.00106.60	C
ATOM	4343	O	VAL	559	28.729	96.323	60.634	1.00106.60	O
ATOM	4344	N	ARG	560	26.696	95.460	61.127	1.00244.87	N
ATOM	4345	CA	ARG	560	26.357	96.294	62.234	1.00244.87	C
ATOM	4346	CB	ARG	560	25.331	95.568	63.123	1.00244.87	C
ATOM	4347	CG	ARG	560	24.692	96.404	64.227	1.00244.87	C
ATOM	4348	CD	ARG	560	23.731	97.452	63.675	1.00244.87	C
ATOM	4349	NE	ARG	560	23.285	96.983	62.330	1.00244.87	N
ATOM	4350	CZ	ARG	560	22.178	96.194	62.193	1.00244.87	C
ATOM	4351	NH1	ARG	560	21.474	95.806	63.296	1.00244.87	N
ATOM	4352	NH2	ARG	560	21.774	95.800	60.950	1.00244.87	N
ATOM	4353	C	ARG	560	27.574	96.586	63.085	1.00244.87	C
ATOM	4354	O	ARG	560	27.924	97.750	63.281	1.00244.87	O
ATOM	4355	N	ASN	561	28.313	95.565	63.556	1.00146.57	N
ATOM	4356	CA	ASN	561	29.425	95.875	64.415	1.00146.57	C
ATOM	4357	CB	ASN	561	29.822	94.675	65.287	1.00146.57	C
ATOM	4358	CG	ASN	561	30.125	93.513	64.350	1.00146.57	C
ATOM	4359	OD1	ASN	561	29.294	93.130	63.528	1.00146.57	O

ATOM	4360	ND2	ASN	561	31.349	92.937	64.472	1.00146.57	N
ATOM	4361	C	ASN	561	30.621	96.294	63.608	1.00146.57	C
ATOM	4362	O	ASN	561	31.700	95.708	63.701	1.00146.57	O
ATOM	4363	N	ALA	562	30.479	97.386	62.838	1.00 61.89	N
ATOM	4364	CA	ALA	562	31.589	97.866	62.078	1.00 61.89	C
ATOM	4365	CB	ALA	562	31.225	98.202	60.629	1.00 61.89	C
ATOM	4366	C	ALA	562	32.038	99.117	62.749	1.00 61.89	C
ATOM	4367	O	ALA	562	31.219	99.932	63.175	1.00 61.89	O
ATOM	4368	N	ASP	563	33.369	99.286	62.873	1.00 84.00	N
ATOM	4369	CA	ASP	563	33.893	100.464	63.495	1.00 84.00	C
ATOM	4370	CB	ASP	563	35.433	100.510	63.518	1.00 84.00	C
ATOM	4371	CG	ASP	563	35.946	99.460	64.493	1.00 84.00	C
ATOM	4372	OD1	ASP	563	35.866	98.249	64.161	1.00 84.00	O
ATOM	4373	OD2	ASP	563	36.430	99.860	65.586	1.00 84.00	O
ATOM	4374	C	ASP	563	33.429	101.603	62.650	1.00 84.00	C
ATOM	4375	O	ASP	563	33.119	102.682	63.153	1.00 84.00	O
ATOM	4376	N	VAL	564	33.385	101.379	61.325	1.00141.72	N
ATOM	4377	CA	VAL	564	32.959	102.380	60.392	1.00141.72	C
ATOM	4378	CB	VAL	564	34.109	103.253	59.973	1.00141.72	C
ATOM	4379	CG1	VAL	564	35.279	102.343	59.560	1.00141.72	C
ATOM	4380	CG2	VAL	564	33.657	104.207	58.856	1.00141.72	C
ATOM	4381	C	VAL	564	32.413	101.678	59.181	1.00141.72	C
ATOM	4382	O	VAL	564	32.733	100.514	58.936	1.00141.72	O
ATOM	4383	N	ILE	565	31.561	102.388	58.405	1.00154.45	N
ATOM	4384	CA	ILE	565	30.922	101.864	57.227	1.00154.45	C
ATOM	4385	CB	ILE	565	29.429	101.876	57.346	1.00154.45	C
ATOM	4386	CG1	ILE	565	28.961	101.340	58.710	1.00154.45	C
ATOM	4387	CG2	ILE	565	28.877	101.110	56.134	1.00154.45	C
ATOM	4388	CD1	ILE	565	29.479	99.956	59.052	1.00154.45	C
ATOM	4389	C	ILE	565	31.179	102.868	56.139	1.00154.45	C
ATOM	4390	O	ILE	565	31.370	104.049	56.423	1.00154.45	O
ATOM	4391	N	ALA	566	31.205	102.425	54.862	1.00 70.46	N
ATOM	4392	CA	ALA	566	31.382	103.347	53.772	1.00 70.46	C
ATOM	4393	CB	ALA	566	32.791	103.309	53.158	1.00 70.46	C
ATOM	4394	C	ALA	566	30.410	102.976	52.681	1.00 70.46	C
ATOM	4395	O	ALA	566	30.115	101.802	52.452	1.00 70.46	O
ATOM	4396	N	GLY	567	29.905	103.986	51.941	1.00 67.32	N
ATOM	4397	CA	GLY	567	28.897	103.708	50.958	1.00 67.32	C
ATOM	4398	C	GLY	567	29.508	103.603	49.610	1.00 67.32	C
ATOM	4399	O	GLY	567	30.125	104.536	49.105	1.00 67.32	O
ATOM	4400	N	PHE	568	29.302	102.432	48.989	1.00108.67	N
ATOM	4401	CA	PHE	568	29.755	102.111	47.673	1.00108.67	C
ATOM	4402	CB	PHE	568	30.903	101.079	47.602	1.00108.67	C
ATOM	4403	CG	PHE	568	32.197	101.674	48.059	1.00108.67	C
ATOM	4404	CD1	PHE	568	32.872	102.568	47.259	1.00108.67	C
ATOM	4405	CD2	PHE	568	32.761	101.314	49.263	1.00108.67	C
ATOM	4406	CE1	PHE	568	34.068	103.115	47.662	1.00108.67	C
ATOM	4407	CE2	PHE	568	33.958	101.857	49.673	1.00108.67	C
ATOM	4408	CZ	PHE	568	34.613	102.763	48.874	1.00108.67	C
ATOM	4409	C	PHE	568	28.587	101.478	46.994	1.00108.67	C
ATOM	4410	O	PHE	568	27.547	101.235	47.604	1.00108.67	O
ATOM	4411	N	ASP	569	28.727	101.256	45.678	1.00196.80	N
ATOM	4412	CA	ASP	569	27.715	100.620	44.892	1.00196.80	C
ATOM	4413	CB	ASP	569	26.312	101.204	45.124	1.00196.80	C
ATOM	4414	CG	ASP	569	25.288	100.217	44.582	1.00196.80	C
ATOM	4415	OD1	ASP	569	25.361	99.020	44.971	1.00196.80	O
ATOM	4416	OD2	ASP	569	24.426	100.639	43.766	1.00196.80	O
ATOM	4417	C	ASP	569	28.096	100.933	43.484	1.00196.80	C
ATOM	4418	O	ASP	569	27.528	101.822	42.852	1.00196.80	O
ATOM	4419	N	ASP	570	29.000	100.127	42.915	1.00148.54	N
ATOM	4420	CA	ASP	570	29.537	100.424	41.616	1.00148.54	C
ATOM	4421	CB	ASP	570	28.491	100.551	40.497	1.00148.54	C
ATOM	4422	CG	ASP	570	29.165	100.363	39.140	1.00148.54	C
ATOM	4423	OD1	ASP	570	29.983	101.229	38.734	1.00148.54	O
ATOM	4424	OD2	ASP	570	28.850	99.335	38.481	1.00148.54	O
ATOM	4425	C	ASP	570	30.327	101.700	41.591	1.00148.54	C
ATOM	4426	O	ASP	570	29.995	102.621	40.851	1.00148.54	O
ATOM	4427	N	GLY	571	31.395	101.795	42.410	1.00 74.42	N
ATOM	4428	CA	GLY	571	32.287	102.920	42.339	1.00 74.42	C
ATOM	4429	C	GLY	571	31.656	104.224	42.771	1.00 74.42	C
ATOM	4430	O	GLY	571	31.560	105.139	41.957	1.00 74.42	O
ATOM	4431	N	VAL	572	31.149	104.355	44.021	1.00156.18	N
ATOM	4432	CA	VAL	572	30.712	105.663	44.467	1.00156.18	C
ATOM	4433	CB	VAL	572	29.320	106.025	44.006	1.00156.18	C

ATOM	4434	CG1	VAL	572	28.314	104.952	44.462	1.00156.18	C
ATOM	4435	CG2	VAL	572	28.999	107.440	44.515	1.00156.18	C
ATOM	4436	C	VAL	572	30.773	105.719	45.973	1.00156.18	C
ATOM	4437	O	VAL	572	30.015	105.012	46.630	1.00156.18	O
ATOM	4438	N	ILE	573	31.627	106.605	46.560	1.00166.24	N
ATOM	4439	CA	ILE	573	31.822	106.645	47.997	1.00166.24	C
ATOM	4440	CB	ILE	573	33.292	106.714	48.351	1.00166.24	C
ATOM	4441	CG1	ILE	573	33.552	106.697	49.871	1.00166.24	C
ATOM	4442	CG2	ILE	573	33.901	107.918	47.613	1.00166.24	C
ATOM	4443	CD1	ILE	573	33.221	108.003	50.590	1.00166.24	C
ATOM	4444	C	ILE	573	31.081	107.816	48.591	1.00166.24	C
ATOM	4445	O	ILE	573	31.531	108.955	48.505	1.00166.24	O
ATOM	4446	N	VAL	574	29.839	107.593	49.073	1.00141.65	N
ATOM	4447	CA	VAL	574	29.081	108.642	49.707	1.00141.65	C
ATOM	4448	CB	VAL	574	27.645	108.585	49.270	1.00141.65	C
ATOM	4449	CG1	VAL	574	27.609	108.920	47.770	1.00141.65	C
ATOM	4450	CG2	VAL	574	27.077	107.185	49.571	1.00141.65	C
ATOM	4451	C	VAL	574	29.107	108.783	51.215	1.00141.65	C
ATOM	4452	O	VAL	574	29.730	109.691	51.767	1.00141.65	O
ATOM	4453	N	GLU	575	28.491	107.805	51.926	1.00149.94	N
ATOM	4454	CA	GLU	575	28.179	107.970	53.325	1.00149.94	C
ATOM	4455	CB	GLU	575	26.725	107.605	53.639	1.00149.94	C
ATOM	4456	CG	GLU	575	26.392	106.180	53.214	1.00149.94	C
ATOM	4457	CD	GLU	575	24.904	105.979	53.400	1.00149.94	C
ATOM	4458	OE1	GLU	575	24.160	106.994	53.445	1.00149.94	O
ATOM	4459	OE2	GLU	575	24.490	104.798	53.499	1.00149.94	O
ATOM	4460	C	GLU	575	29.068	107.128	54.173	1.00149.94	C
ATOM	4461	O	GLU	575	29.043	105.901	54.102	1.00149.94	O
ATOM	4462	N	LYS	576	29.847	107.805	55.039	1.00158.85	N
ATOM	4463	CA	LYS	576	30.792	107.165	55.902	1.00158.85	C
ATOM	4464	CB	LYS	576	32.159	107.866	55.870	1.00158.85	C
ATOM	4465	CG	LYS	576	32.830	107.860	54.496	1.00158.85	C
ATOM	4466	CD	LYS	576	33.921	108.922	54.360	1.00158.85	C
ATOM	4467	CE	LYS	576	34.808	109.035	55.600	1.00158.85	C
ATOM	4468	NZ	LYS	576	34.142	109.871	56.624	1.00158.85	N
ATOM	4469	C	LYS	576	30.269	107.326	57.290	1.00158.85	C
ATOM	4470	O	LYS	576	29.608	108.318	57.592	1.00158.85	O
ATOM	4471	N	GLY	577	30.523	106.343	58.175	1.00 59.17	N
ATOM	4472	CA	GLY	577	30.080	106.552	59.515	1.00 59.17	C
ATOM	4473	C	GLY	577	29.464	105.310	60.058	1.00 59.17	C
ATOM	4474	O	GLY	577	29.441	104.260	59.416	1.00 59.17	O
ATOM	4475	N	ASN	578	28.914	105.444	61.278	1.00 88.60	N
ATOM	4476	CA	ASN	578	28.344	104.362	62.017	1.00 88.60	C
ATOM	4477	CB	ASN	578	28.099	104.728	63.493	1.00 88.60	C
ATOM	4478	CG	ASN	578	27.730	103.462	64.248	1.00 88.60	C
ATOM	4479	OD1	ASN	578	28.514	102.517	64.320	1.00 88.60	O
ATOM	4480	ND2	ASN	578	26.500	103.437	64.827	1.00 88.60	N
ATOM	4481	C	ASN	578	27.040	103.954	61.397	1.00 88.60	C
ATOM	4482	O	ASN	578	26.435	104.681	60.611	1.00 88.60	O
ATOM	4483	N	HIS	579	26.576	102.747	61.774	1.00114.76	N
ATOM	4484	CA	HIS	579	25.428	102.087	61.209	1.00114.76	C
ATOM	4485	ND1	HIS	579	23.793	99.509	60.128	1.00114.76	N
ATOM	4486	CG	HIS	579	23.951	100.043	61.382	1.00114.76	C
ATOM	4487	CB	HIS	579	25.196	100.716	61.866	1.00114.76	C
ATOM	4488	NE2	HIS	579	21.867	99.208	61.197	1.00114.76	N
ATOM	4489	CD2	HIS	579	22.767	99.850	62.027	1.00114.76	C
ATOM	4490	CE1	HIS	579	22.524	99.022	60.069	1.00114.76	C
ATOM	4491	C	HIS	579	24.165	102.869	61.330	1.00114.76	C
ATOM	4492	O	HIS	579	23.518	103.150	60.320	1.00114.76	O
ATOM	4493	N	ASP	580	23.816	103.287	62.556	1.00 77.36	N
ATOM	4494	CA	ASP	580	22.585	103.972	62.802	1.00 77.36	C
ATOM	4495	CB	ASP	580	22.465	104.429	64.264	1.00 77.36	C
ATOM	4496	CG	ASP	580	22.417	103.195	65.153	1.00 77.36	C
ATOM	4497	OD1	ASP	580	22.696	102.075	64.645	1.00 77.36	O
ATOM	4498	OD2	ASP	580	22.096	103.361	66.360	1.00 77.36	O
ATOM	4499	C	ASP	580	22.634	105.197	61.968	1.00 77.36	C
ATOM	4500	O	ASP	580	21.601	105.730	61.567	1.00 77.36	O
ATOM	4501	N	GLU	581	23.856	105.697	61.729	1.00 66.96	N
ATOM	4502	CA	GLU	581	24.019	106.896	60.968	1.00 66.96	C
ATOM	4503	CB	GLU	581	25.491	107.338	60.903	1.00 66.96	C
ATOM	4504	CG	GLU	581	26.100	107.575	62.288	1.00 66.96	C
ATOM	4505	CD	GLU	581	27.515	108.112	62.125	1.00 66.96	C
ATOM	4506	OE1	GLU	581	27.723	108.977	61.232	1.00 66.96	O
ATOM	4507	OE2	GLU	581	28.406	107.664	62.896	1.00 66.96	O

ATOM	4508	C	GLU	581	23.567	106.673	59.554	1.00	66.96	C
ATOM	4509	O	GLU	581	22.817	107.476	59.004	1.00	66.96	O
ATOM	4510	N	LEU	582	24.022	105.576	58.918	1.00	132.78	N
ATOM	4511	CA	LEU	582	23.694	105.311	57.539	1.00	132.78	C
ATOM	4512	CB	LEU	582	24.554	104.208	56.901	1.00	132.78	C
ATOM	4513	CG	LEU	582	26.008	104.624	56.614	1.00	132.78	C
ATOM	4514	CD1	LEU	582	26.806	104.872	57.901	1.00	132.78	C
ATOM	4515	CD2	LEU	582	26.680	103.619	55.666	1.00	132.78	C
ATOM	4516	C	LEU	582	22.258	104.925	57.347	1.00	132.78	C
ATOM	4517	O	LEU	582	21.682	105.179	56.289	1.00	132.78	O
ATOM	4518	N	MET	583	21.687	104.173	58.304	1.00	85.02	N
ATOM	4519	CA	MET	583	20.295	103.819	58.256	1.00	85.02	C
ATOM	4520	CB	MET	583	19.932	102.796	59.343	1.00	85.02	C
ATOM	4521	CG	MET	583	20.701	101.479	59.212	1.00	85.02	C
ATOM	4522	SD	MET	583	20.264	100.480	57.759	1.00	85.02	S
ATOM	4523	CE	MET	583	18.865	99.661	58.573	1.00	85.02	C
ATOM	4524	C	MET	583	19.496	105.058	58.521	1.00	85.02	C
ATOM	4525	O	MET	583	18.476	105.304	57.879	1.00	85.02	O
ATOM	4526	N	LYS	584	19.962	105.884	59.482	1.00	157.33	N
ATOM	4527	CA	LYS	584	19.235	107.062	59.858	1.00	157.33	C
ATOM	4528	CB	LYS	584	19.880	107.855	61.006	1.00	157.33	C
ATOM	4529	CG	LYS	584	18.864	108.713	61.769	1.00	157.33	C
ATOM	4530	CD	LYS	584	18.106	109.736	60.919	1.00	157.33	C
ATOM	4531	CE	LYS	584	18.618	111.167	61.087	1.00	157.33	C
ATOM	4532	NZ	LYS	584	17.758	112.109	60.337	1.00	157.33	N
ATOM	4533	C	LYS	584	19.205	107.940	58.654	1.00	157.33	C
ATOM	4534	O	LYS	584	18.229	108.648	58.403	1.00	157.33	O
ATOM	4535	N	GLU	585	20.310	107.902	57.885	1.00	89.14	N
ATOM	4536	CA	GLU	585	20.440	108.663	56.683	1.00	89.14	C
ATOM	4537	CB	GLU	585	21.812	108.519	56.001	1.00	89.14	C
ATOM	4538	CG	GLU	585	21.992	109.455	54.798	1.00	89.14	C
ATOM	4539	CD	GLU	585	22.093	110.889	55.306	1.00	89.14	C
ATOM	4540	OE1	GLU	585	22.215	111.072	56.547	1.00	89.14	O
ATOM	4541	OE2	GLU	585	22.041	111.822	54.461	1.00	89.14	O
ATOM	4542	C	GLU	585	19.397	108.162	55.746	1.00	89.14	C
ATOM	4543	O	GLU	585	18.843	108.938	54.967	1.00	89.14	O
ATOM	4544	N	LYS	586	19.093	106.848	55.810	1.00	190.25	N
ATOM	4545	CA	LYS	586	18.088	106.336	54.928	1.00	190.25	C
ATOM	4546	CB	LYS	586	16.787	107.139	55.108	1.00	190.25	C
ATOM	4547	CG	LYS	586	15.663	106.797	54.151	1.00	190.25	C
ATOM	4548	CD	LYS	586	15.114	105.393	54.330	1.00	190.25	C
ATOM	4549	CE	LYS	586	14.115	105.049	53.233	1.00	190.25	C
ATOM	4550	NZ	LYS	586	14.794	105.057	51.916	1.00	190.25	N
ATOM	4551	C	LYS	586	18.624	106.521	53.551	1.00	190.25	C
ATOM	4552	O	LYS	586	17.895	106.704	52.578	1.00	190.25	O
ATOM	4553	N	GLY	587	19.957	106.429	53.441	1.00	45.42	N
ATOM	4554	CA	GLY	587	20.591	106.640	52.185	1.00	45.42	C
ATOM	4555	C	GLY	587	20.861	105.319	51.552	1.00	45.42	C
ATOM	4556	O	GLY	587	20.012	104.427	51.507	1.00	45.42	O
ATOM	4557	N	ILE	588	22.083	105.184	51.015	1.00	134.19	N
ATOM	4558	CA	ILE	588	22.427	104.005	50.297	1.00	134.19	C
ATOM	4559	CB	ILE	588	23.813	104.069	49.741	1.00	134.19	C
ATOM	4560	CG1	ILE	588	23.972	105.301	48.835	1.00	134.19	C
ATOM	4561	CG2	ILE	588	24.085	102.729	49.037	1.00	134.19	C
ATOM	4562	CD1	ILE	588	23.050	105.292	47.618	1.00	134.19	C
ATOM	4563	C	ILE	588	22.407	102.817	51.202	1.00	134.19	C
ATOM	4564	O	ILE	588	21.783	101.803	50.888	1.00	134.19	O
ATOM	4565	N	TYR	589	23.046	102.942	52.379	1.00	142.07	N
ATOM	4566	CA	TYR	589	23.206	101.811	53.239	1.00	142.07	C
ATOM	4567	CB	TYR	589	23.909	102.186	54.549	1.00	142.07	C
ATOM	4568	CG	TYR	589	24.113	100.944	55.339	1.00	142.07	C
ATOM	4569	CD1	TYR	589	25.041	100.015	54.935	1.00	142.07	C
ATOM	4570	CD2	TYR	589	23.400	100.720	56.492	1.00	142.07	C
ATOM	4571	CE1	TYR	589	25.249	98.868	55.662	1.00	142.07	C
ATOM	4572	CE2	TYR	589	23.604	99.576	57.225	1.00	142.07	C
ATOM	4573	CZ	TYR	589	24.528	98.648	56.810	1.00	142.07	C
ATOM	4574	OH	TYR	589	24.736	97.476	57.565	1.00	142.07	O
ATOM	4575	C	TYR	589	21.860	101.247	53.558	1.00	142.07	C
ATOM	4576	O	TYR	589	21.565	100.087	53.267	1.00	142.07	O
ATOM	4577	N	PHE	590	20.964	102.105	54.051	1.00	119.60	N
ATOM	4578	CA	PHE	590	19.660	101.672	54.440	1.00	119.60	C
ATOM	4579	CB	PHE	590	18.803	102.796	55.050	1.00	119.60	C
ATOM	4580	CG	PHE	590	17.433	102.245	55.253	1.00	119.60	C
ATOM	4581	CD1	PHE	590	17.199	101.262	56.188	1.00	119.60	C

ATOM	4582	CD2	PHE	590	16.376	102.727	54.517	1.00119.60	C
ATOM	4583	CE1	PHE	590	15.935	100.755	56.377	1.00119.60	C
ATOM	4584	CE2	PHE	590	15.110	102.226	54.703	1.00119.60	C
ATOM	4585	CZ	PHE	590	14.887	101.237	55.632	1.00119.60	C
ATOM	4586	C	PHE	590	18.946	101.109	53.247	1.00119.60	C
ATOM	4587	O	PHE	590	18.359	100.027	53.310	1.00119.60	O
ATOM	4588	N	LYS	591	19.022	101.809	52.105	1.00100.03	N
ATOM	4589	CA	LYS	591	18.259	101.402	50.965	1.00100.03	C
ATOM	4590	CB	LYS	591	18.463	102.299	49.738	1.00100.03	C
ATOM	4591	CG	LYS	591	17.629	101.820	48.549	1.00100.03	C
ATOM	4592	CD	LYS	591	17.561	102.814	47.393	1.00100.03	C
ATOM	4593	CE	LYS	591	16.782	102.290	46.184	1.00100.03	C
ATOM	4594	NZ	LYS	591	17.676	101.509	45.300	1.00100.03	N
ATOM	4595	C	LYS	591	18.669	100.032	50.547	1.00100.03	C
ATOM	4596	O	LYS	591	17.847	99.134	50.362	1.00100.03	O
ATOM	4597	N	LEU	592	19.981	99.827	50.420	1.00135.09	N
ATOM	4598	CA	LEU	592	20.448	98.556	49.988	1.00135.09	C
ATOM	4599	CB	LEU	592	21.963	98.506	49.717	1.00135.09	C
ATOM	4600	CG	LEU	592	22.360	99.222	48.406	1.00135.09	C
ATOM	4601	CD1	LEU	592	21.818	98.465	47.185	1.00135.09	C
ATOM	4602	CD2	LEU	592	21.926	100.695	48.383	1.00135.09	C
ATOM	4603	C	LEU	592	20.078	97.540	51.005	1.00135.09	C
ATOM	4604	O	LEU	592	19.807	96.391	50.651	1.00135.09	O
ATOM	4605	N	VAL	593	20.030	97.956	52.288	1.00114.48	N
ATOM	4606	CA	VAL	593	19.731	97.047	53.353	1.00114.48	C
ATOM	4607	CB	VAL	593	19.540	97.719	54.687	1.00114.48	C
ATOM	4608	CG1	VAL	593	18.924	96.701	55.664	1.00114.48	C
ATOM	4609	CG2	VAL	593	20.898	98.250	55.175	1.00114.48	C
ATOM	4610	C	VAL	593	18.439	96.369	53.002	1.00114.48	C
ATOM	4611	O	VAL	593	18.346	95.142	52.965	1.00114.48	O
ATOM	4612	N	THR	594	17.426	97.162	52.636	1.00180.10	N
ATOM	4613	CA	THR	594	16.117	96.639	52.364	1.00180.10	C
ATOM	4614	CB	THR	594	15.101	97.710	52.124	1.00180.10	C
ATOM	4615	OG1	THR	594	15.433	98.430	50.947	1.00180.10	O
ATOM	4616	CG2	THR	594	15.077	98.646	53.343	1.00180.10	C
ATOM	4617	C	THR	594	16.112	95.787	51.127	1.00180.10	C
ATOM	4618	O	THR	594	15.460	94.747	51.053	1.00180.10	O
ATOM	4619	N	MET	595	16.882	96.216	50.125	1.00162.14	N
ATOM	4620	CA	MET	595	16.951	95.687	48.795	1.00162.14	C
ATOM	4621	CB	MET	595	17.678	96.620	47.802	1.00162.14	C
ATOM	4622	CG	MET	595	17.587	96.129	46.352	1.00162.14	C
ATOM	4623	SD	MET	595	18.547	97.077	45.134	1.00162.14	S
ATOM	4624	CE	MET	595	18.500	95.779	43.862	1.00162.14	C
ATOM	4625	C	MET	595	17.636	94.338	48.762	1.00162.14	C
ATOM	4626	O	MET	595	17.786	93.752	47.690	1.00162.14	O
ATOM	4627	N	GLN	596	18.006	93.758	49.921	1.00231.43	N
ATOM	4628	CA	GLN	596	19.064	92.780	50.062	1.00231.43	C
ATOM	4629	CB	GLN	596	18.817	91.777	51.199	1.00231.43	C
ATOM	4630	CG	GLN	596	19.341	92.245	52.552	1.00231.43	C
ATOM	4631	CD	GLN	596	20.826	91.895	52.565	1.00231.43	C
ATOM	4632	OE1	GLN	596	21.269	91.028	53.317	1.00231.43	O
ATOM	4633	NE2	GLN	596	21.619	92.571	51.694	1.00231.43	N
ATOM	4634	C	GLN	596	19.472	91.936	48.863	1.00231.43	C
ATOM	4635	O	GLN	596	20.650	92.042	48.532	1.00231.43	O
ATOM	4636	N	THR	597	18.647	91.072	48.220	1.00370.75	N
ATOM	4637	CA	THR	597	18.990	90.373	46.923	1.00370.75	C
ATOM	4638	CB	THR	597	20.128	90.954	46.121	1.00370.75	C
ATOM	4639	OG1	THR	597	19.871	92.321	45.830	1.00370.75	O
ATOM	4640	CG2	THR	597	20.276	90.164	44.812	1.00370.75	C
ATOM	4641	C	THR	597	19.196	88.727	46.907	1.00370.75	C
ATOM	4642	O	THR	597	19.409	88.454	48.097	1.00370.75	O
ATOM	4643	N	LEU	598	19.177	87.729	45.714	1.00344.61	N
ATOM	4644	CA	LEU	598	19.244	86.108	45.417	1.00344.61	C
ATOM	4645	CB	LEU	598	17.949	85.392	45.856	1.00344.61	C
ATOM	4646	CG	LEU	598	17.683	85.365	47.372	1.00344.61	C
ATOM	4647	CD1	LEU	598	17.269	86.743	47.902	1.00344.61	C
ATOM	4648	CD2	LEU	598	16.680	84.261	47.741	1.00344.61	C
ATOM	4649	C	LEU	598	19.649	85.157	44.061	1.00344.61	C
ATOM	4650	O	LEU	598	19.957	85.665	42.983	1.00344.61	O
ATOM	4651	N	ASP	599	19.689	83.687	44.069	1.00239.77	N
ATOM	4652	CA	ASP	599	19.964	82.625	42.940	1.00239.77	C
ATOM	4653	CB	ASP	599	21.425	82.582	42.460	1.00239.77	C
ATOM	4654	CG	ASP	599	21.546	83.700	41.425	1.00239.77	C
ATOM	4655	OD1	ASP	599	20.662	83.754	40.528	1.00239.77	O

ATOM	4656	OD2	ASP	599	22.515	84.501	41.503	1.00239.77	O
ATOM	4657	C	ASP	599	19.379	81.120	43.005	1.00239.77	C
ATOM	4658	O	ASP	599	18.799	80.769	44.029	1.00239.77	O
ATOM	4659	N	GLU	600	19.483	80.174	41.930	1.00370.02	N
ATOM	4660	CA	GLU	600	18.825	78.797	41.907	1.00370.02	C
ATOM	4661	CB	GLU	600	17.316	78.956	42.192	1.00370.02	C
ATOM	4662	CG	GLU	600	16.546	79.774	41.136	1.00370.02	C
ATOM	4663	CD	GLU	600	17.040	81.219	41.059	1.00370.02	C
ATOM	4664	OE1	GLU	600	16.781	82.015	42.003	1.00370.02	O
ATOM	4665	OE2	GLU	600	17.706	81.533	40.037	1.00370.02	O
ATOM	4666	C	GLU	600	18.931	77.884	40.635	1.00370.02	C
ATOM	4667	O	GLU	600	19.220	78.319	39.527	1.00370.02	O
ATOM	4668	N	SER	601	18.668	76.541	40.765	1.00222.08	N
ATOM	4669	CA	SER	601	18.623	75.492	39.724	1.00222.08	C
ATOM	4670	CB	SER	601	20.011	74.975	39.310	1.00222.08	C
ATOM	4671	OG	SER	601	20.652	74.364	40.419	1.00222.08	O
ATOM	4672	C	SER	601	17.897	74.383	40.402	1.00222.08	C
ATOM	4673	O	SER	601	17.797	74.404	41.627	1.00222.08	O
ATOM	4674	N	ILE	602	17.342	73.395	39.668	1.00196.73	N
ATOM	4675	CA	ILE	602	16.613	72.434	40.458	1.00196.73	C
ATOM	4676	CB	ILE	602	15.137	72.746	40.457	1.00196.73	C
ATOM	4677	CG1	ILE	602	14.405	72.002	41.576	1.00196.73	C
ATOM	4678	CG2	ILE	602	14.567	72.491	39.052	1.00196.73	C
ATOM	4679	CD1	ILE	602	12.993	72.534	41.810	1.00196.73	C
ATOM	4680	C	ILE	602	16.839	70.989	40.063	1.00196.73	C
ATOM	4681	O	ILE	602	16.739	70.591	38.907	1.00196.73	O
ATOM	4682	N	PRO	603	17.167	70.196	41.061	1.00 89.45	N
ATOM	4683	CA	PRO	603	17.338	68.768	40.871	1.00 89.45	C
ATOM	4684	CD	PRO	603	18.061	70.703	42.091	1.00 89.45	C
ATOM	4685	CB	PRO	603	18.144	68.277	42.072	1.00 89.45	C
ATOM	4686	CG	PRO	603	18.950	69.515	42.498	1.00 89.45	C
ATOM	4687	C	PRO	603	16.087	67.950	40.618	1.00 89.45	C
ATOM	4688	O	PRO	603	16.220	66.869	40.049	1.00 89.45	O
ATOM	4689	N	PRO	604	14.906	68.366	40.998	1.00100.08	N
ATOM	4690	CA	PRO	604	13.762	67.510	40.760	1.00100.08	C
ATOM	4691	CD	PRO	604	14.763	69.079	42.255	1.00100.08	C
ATOM	4692	CB	PRO	604	12.625	68.105	41.581	1.00100.08	C
ATOM	4693	CG	PRO	604	13.363	68.716	42.787	1.00100.08	C
ATOM	4694	C	PRO	604	13.464	67.301	39.313	1.00100.08	C
ATOM	4695	O	PRO	604	13.681	68.210	38.515	1.00100.08	O
ATOM	4696	N	VAL	605	12.928	66.112	38.970	1.00130.25	N
ATOM	4697	CA	VAL	605	12.728	65.731	37.597	1.00130.25	C
ATOM	4698	CB	VAL	605	13.461	64.444	37.291	1.00130.25	C
ATOM	4699	CG1	VAL	605	13.451	64.143	35.780	1.00130.25	C
ATOM	4700	CG2	VAL	605	14.874	64.553	37.891	1.00130.25	C
ATOM	4701	C	VAL	605	11.233	65.556	37.404	1.00130.25	C
ATOM	4702	O	VAL	605	10.449	66.256	38.040	1.00130.25	O
ATOM	4703	N	SER	606	10.790	64.720	36.431	1.00249.49	N
ATOM	4704	CA	SER	606	9.385	64.434	36.243	1.00249.49	C
ATOM	4705	CB	SER	606	8.601	65.512	35.468	1.00249.49	C
ATOM	4706	OG	SER	606	8.293	66.615	36.302	1.00249.49	O
ATOM	4707	C	SER	606	9.243	63.184	35.418	1.00249.49	C
ATOM	4708	O	SER	606	8.910	63.241	34.234	1.00249.49	O
ATOM	4709	N	PHE	607	9.390	61.997	36.032	1.00170.48	N
ATOM	4710	CA	PHE	607	9.344	60.824	35.198	1.00170.48	C
ATOM	4711	CB	PHE	607	9.767	59.538	35.942	1.00170.48	C
ATOM	4712	CG	PHE	607	8.773	59.264	37.020	1.00170.48	C
ATOM	4713	CD1	PHE	607	8.790	59.978	38.196	1.00170.48	C
ATOM	4714	CD2	PHE	607	7.797	58.311	36.839	1.00170.48	C
ATOM	4715	CE1	PHE	607	7.863	59.730	39.181	1.00170.48	C
ATOM	4716	CE2	PHE	607	6.869	58.058	37.821	1.00170.48	C
ATOM	4717	CZ	PHE	607	6.902	58.765	38.997	1.00170.48	C
ATOM	4718	C	PHE	607	7.964	60.641	34.630	1.00170.48	C
ATOM	4719	O	PHE	607	6.984	60.480	35.356	1.00170.48	O
ATOM	4720	N	TRP	608	7.847	60.747	33.287	1.00161.67	N
ATOM	4721	CA	TRP	608	6.654	60.470	32.519	1.00161.67	C
ATOM	4722	CB	TRP	608	6.098	59.052	32.748	1.00161.67	C
ATOM	4723	CG	TRP	608	7.045	57.918	32.426	1.00161.67	C
ATOM	4724	CD2	TRP	608	7.792	57.792	31.205	1.00161.67	C
ATOM	4725	CD1	TRP	608	7.399	56.854	33.203	1.00161.67	C
ATOM	4726	NE1	TRP	608	8.296	56.057	32.533	1.00161.67	N
ATOM	4727	CE2	TRP	608	8.553	56.626	31.305	1.00161.67	C
ATOM	4728	CE3	TRP	608	7.847	58.585	30.098	1.00161.67	C
ATOM	4729	CZ2	TRP	608	9.379	56.233	30.291	1.00161.67	C



ATOM	4730	CZ3	TRP	608	8.676	58.180	29.075	1.00161.67	C
ATOM	4731	CH2	TRP	608	9.427	57.026	29.167	1.00161.67	C
ATOM	4732	C	TRP	608	5.566	61.432	32.910	1.00161.67	C
ATOM	4733	O	TRP	608	4.481	61.422	32.328	1.00161.67	O
ATOM	4734	N	ARG	609	5.838	62.314	33.888	1.00 86.60	N
ATOM	4735	CA	ARG	609	4.854	63.218	34.401	1.00 86.60	C
ATOM	4736	CB	ARG	609	5.408	64.018	35.591	1.00 86.60	C
ATOM	4737	CG	ARG	609	4.422	64.985	36.249	1.00 86.60	C
ATOM	4738	CD	ARG	609	5.063	65.788	37.386	1.00 86.60	C
ATOM	4739	NE	ARG	609	4.027	66.692	37.960	1.00 86.60	N
ATOM	4740	CZ	ARG	609	4.385	67.726	38.775	1.00 86.60	C
ATOM	4741	NH1	ARG	609	5.704	67.984	39.029	1.00 86.60	N
ATOM	4742	NH2	ARG	609	3.417	68.501	39.344	1.00 86.60	N
ATOM	4743	C	ARG	609	4.505	64.194	33.336	1.00 86.60	C
ATOM	4744	O	ARG	609	3.336	64.466	33.072	1.00 86.60	O
ATOM	4745	N	ILE	610	5.547	64.716	32.675	1.00158.33	N
ATOM	4746	CA	ILE	610	5.421	65.695	31.648	1.00158.33	C
ATOM	4747	CB	ILE	610	6.729	66.178	31.086	1.00158.33	C
ATOM	4748	CG1	ILE	610	7.473	65.053	30.344	1.00158.33	C
ATOM	4749	CG2	ILE	610	7.526	66.801	32.246	1.00158.33	C
ATOM	4750	CD1	ILE	610	7.912	63.903	31.244	1.00158.33	C
ATOM	4751	C	ILE	610	4.666	65.067	30.542	1.00158.33	C
ATOM	4752	O	ILE	610	4.179	65.789	29.683	1.00158.33	O
ATOM	4753	N	MET	611	4.725	63.726	30.409	1.00106.50	N
ATOM	4754	CA	MET	611	3.897	63.075	29.429	1.00106.50	C
ATOM	4755	CB	MET	611	4.195	61.577	29.257	1.00106.50	C
ATOM	4756	CG	MET	611	3.372	60.952	28.127	1.00106.50	C
ATOM	4757	SD	MET	611	3.653	59.176	27.859	1.00106.50	S
ATOM	4758	CE	MET	611	2.956	59.154	26.182	1.00106.50	C
ATOM	4759	C	MET	611	2.467	63.178	29.878	1.00106.50	C
ATOM	4760	O	MET	611	1.571	63.478	29.090	1.00106.50	O
ATOM	4761	N	LYS	612	2.217	62.940	31.183	1.00116.85	N
ATOM	4762	CA	LYS	612	0.865	62.932	31.677	1.00116.85	C
ATOM	4763	CB	LYS	612	0.792	62.706	33.198	1.00116.85	C
ATOM	4764	CG	LYS	612	1.628	61.539	33.725	1.00116.85	C
ATOM	4765	CD	LYS	612	1.260	60.152	33.201	1.00116.85	C
ATOM	4766	CE	LYS	612	2.209	59.081	33.748	1.00116.85	C
ATOM	4767	NZ	LYS	612	1.684	57.727	33.479	1.00116.85	N
ATOM	4768	C	LYS	612	0.328	64.306	31.482	1.00116.85	C
ATOM	4769	O	LYS	612	-0.714	64.526	30.866	1.00116.85	O
ATOM	4770	N	LEU	613	1.101	65.273	31.992	1.00 80.26	N
ATOM	4771	CA	LEU	613	0.811	66.668	31.924	1.00 80.26	C
ATOM	4772	CB	LEU	613	1.853	67.538	32.652	1.00 80.26	C
ATOM	4773	CG	LEU	613	1.792	67.460	34.189	1.00 80.26	C
ATOM	4774	CD1	LEU	613	2.891	68.317	34.834	1.00 80.26	C
ATOM	4775	CD2	LEU	613	0.395	67.849	34.700	1.00 80.26	C
ATOM	4776	C	LEU	613	0.869	67.039	30.488	1.00 80.26	C
ATOM	4777	O	LEU	613	0.255	68.018	30.075	1.00 80.26	O
ATOM	4778	N	ASN	614	1.644	66.273	29.698	1.00119.64	N
ATOM	4779	CA	ASN	614	1.845	66.601	28.314	1.00119.64	C
ATOM	4780	CB	ASN	614	2.557	65.491	27.522	1.00119.64	C
ATOM	4781	CG	ASN	614	3.152	66.082	26.260	1.00119.64	C
ATOM	4782	OD1	ASN	614	3.103	67.292	26.045	1.00119.64	O
ATOM	4783	ND2	ASN	614	3.733	65.200	25.402	1.00119.64	N
ATOM	4784	C	ASN	614	0.490	66.695	27.720	1.00119.64	C
ATOM	4785	O	ASN	614	0.067	67.755	27.270	1.00119.64	O
ATOM	4786	N	LEU	615	-0.279	65.613	27.867	1.00 77.46	N
ATOM	4787	CA	LEU	615	-1.604	65.541	27.338	1.00 77.46	C
ATOM	4788	CB	LEU	615	-2.315	64.229	27.712	1.00 77.46	C
ATOM	4789	CG	LEU	615	-3.809	64.215	27.339	1.00 77.46	C
ATOM	4790	CD1	LEU	615	-4.005	64.294	25.819	1.00 77.46	C
ATOM	4791	CD2	LEU	615	-4.547	63.031	27.986	1.00 77.46	C
ATOM	4792	C	LEU	615	-2.418	66.638	27.948	1.00 77.46	C
ATOM	4793	O	LEU	615	-3.314	67.161	27.293	1.00 77.46	O
ATOM	4794	N	THR	616	-2.180	67.010	29.223	1.00150.62	N
ATOM	4795	CA	THR	616	-3.026	68.051	29.744	1.00150.62	C
ATOM	4796	CB	THR	616	-2.857	68.369	31.212	1.00150.62	C
ATOM	4797	OG1	THR	616	-1.626	69.017	31.491	1.00150.62	O
ATOM	4798	CG2	THR	616	-2.966	67.051	31.997	1.00150.62	C
ATOM	4799	C	THR	616	-2.750	69.280	28.938	1.00150.62	C
ATOM	4800	O	THR	616	-3.643	70.058	28.608	1.00150.62	O
ATOM	4801	N	GLU	617	-1.472	69.435	28.573	1.00189.46	N
ATOM	4802	CA	GLU	617	-0.914	70.477	27.769	1.00189.46	C
ATOM	4803	CB	GLU	617	0.628	70.437	27.696	1.00189.46	C

ATOM	4804	CG	GLU	617	1.346	70.448	29.050	1.00189.46	C
ATOM	4805	CD	GLU	617	0.639	71.415	29.981	1.00189.46	C
ATOM	4806	OE1	GLU	617	0.368	72.567	29.551	1.00189.46	O
ATOM	4807	OE2	GLU	617	0.362	71.011	31.141	1.00189.46	O
ATOM	4808	C	GLU	617	-1.407	70.267	26.377	1.00189.46	C
ATOM	4809	O	GLU	617	-0.887	70.881	25.453	1.00189.46	O
ATOM	4810	N	TRP	618	-2.287	69.269	26.151	1.00145.31	N
ATOM	4811	CA	TRP	618	-2.628	68.984	24.788	1.00145.31	C
ATOM	4812	CB	TRP	618	-1.805	67.756	24.378	1.00145.31	C
ATOM	4813	CG	TRP	618	-1.797	67.318	22.945	1.00145.31	C
ATOM	4814	CD2	TRP	618	-2.196	66.004	22.534	1.00145.31	C
ATOM	4815	CD1	TRP	618	-1.315	67.945	21.837	1.00145.31	C
ATOM	4816	NE1	TRP	618	-1.374	67.096	20.757	1.00145.31	N
ATOM	4817	CE2	TRP	618	-1.912	65.897	21.175	1.00145.31	C
ATOM	4818	CE3	TRP	618	-2.721	64.965	23.243	1.00145.31	C
ATOM	4819	CZ2	TRP	618	-2.148	64.733	20.502	1.00145.31	C
ATOM	4820	CZ3	TRP	618	-2.994	63.806	22.553	1.00145.31	C
ATOM	4821	CH2	TRP	618	-2.712	63.694	21.209	1.00145.31	C
ATOM	4822	C	TRP	618	-4.101	68.714	24.595	1.00145.31	C
ATOM	4823	O	TRP	618	-4.722	67.973	25.355	1.00145.31	O
ATOM	4824	N	PRO	619	-4.712	69.391	23.646	1.00130.78	N
ATOM	4825	CA	PRO	619	-6.071	69.118	23.239	1.00130.78	C
ATOM	4826	CD	PRO	619	-4.263	70.702	23.222	1.00130.78	C
ATOM	4827	CB	PRO	619	-6.502	70.306	22.378	1.00130.78	C
ATOM	4828	CG	PRO	619	-5.187	71.039	22.043	1.00130.78	C
ATOM	4829	C	PRO	619	-6.245	67.777	22.579	1.00130.78	C
ATOM	4830	O	PRO	619	-6.828	66.881	23.188	1.00130.78	O
ATOM	4831	N	TYR	620	-5.781	67.634	21.311	1.00143.53	N
ATOM	4832	CA	TYR	620	-5.750	66.355	20.645	1.00143.53	C
ATOM	4833	CB	TYR	620	-7.095	65.605	20.624	1.00143.53	C
ATOM	4834	CG	TYR	620	-8.027	66.272	19.681	1.00143.53	C
ATOM	4835	CD1	TYR	620	-8.024	65.913	18.354	1.00143.53	C
ATOM	4836	CD2	TYR	620	-8.901	67.241	20.115	1.00143.53	C
ATOM	4837	CE1	TYR	620	-8.881	66.514	17.465	1.00143.53	C
ATOM	4838	CE2	TYR	620	-9.762	67.846	19.229	1.00143.53	C
ATOM	4839	CZ	TYR	620	-9.752	67.481	17.904	1.00143.53	C
ATOM	4840	OH	TYR	620	-10.634	68.099	16.994	1.00143.53	O
ATOM	4841	C	TYR	620	-5.248	66.544	19.233	1.00143.53	C
ATOM	4842	O	TYR	620	-5.657	67.465	18.527	1.00143.53	O
ATOM	4843	N	PHE	621	-4.198	65.782	18.878	1.00274.74	N
ATOM	4844	CA	PHE	621	-3.526	65.651	17.617	1.00274.74	C
ATOM	4845	CB	PHE	621	-2.144	66.295	17.516	1.00274.74	C
ATOM	4846	CG	PHE	621	-2.542	67.727	17.426	1.00274.74	C
ATOM	4847	CD1	PHE	621	-3.644	68.060	16.669	1.00274.74	C
ATOM	4848	CD2	PHE	621	-1.910	68.716	18.139	1.00274.74	C
ATOM	4849	CE1	PHE	621	-4.071	69.360	16.562	1.00274.74	C
ATOM	4850	CE2	PHE	621	-2.330	70.023	18.036	1.00274.74	C
ATOM	4851	CZ	PHE	621	-3.404	70.345	17.244	1.00274.74	C
ATOM	4852	C	PHE	621	-3.573	64.378	16.853	1.00274.74	C
ATOM	4853	O	PHE	621	-2.658	64.209	16.051	1.00274.74	O
ATOM	4854	N	VAL	622	-4.455	63.404	17.148	1.00129.15	N
ATOM	4855	CA	VAL	622	-4.377	62.089	16.560	1.00129.15	C
ATOM	4856	CB	VAL	622	-5.605	61.263	16.805	1.00129.15	C
ATOM	4857	CG1	VAL	622	-6.804	61.948	16.129	1.00129.15	C
ATOM	4858	CG2	VAL	622	-5.339	59.835	16.297	1.00129.15	C
ATOM	4859	C	VAL	622	-4.176	62.192	15.077	1.00129.15	C
ATOM	4860	O	VAL	622	-3.565	61.320	14.461	1.00129.15	O
ATOM	4861	N	VAL	623	-4.661	63.281	14.460	1.00138.43	N
ATOM	4862	CA	VAL	623	-4.493	63.460	13.050	1.00138.43	C
ATOM	4863	CB	VAL	623	-5.088	64.769	12.595	1.00138.43	C
ATOM	4864	CG1	VAL	623	-6.510	64.803	13.166	1.00138.43	C
ATOM	4865	CG2	VAL	623	-4.250	65.984	13.030	1.00138.43	C
ATOM	4866	C	VAL	623	-3.020	63.430	12.721	1.00138.43	C
ATOM	4867	O	VAL	623	-2.602	62.741	11.791	1.00138.43	O
ATOM	4868	N	GLY	624	-2.176	64.151	13.486	1.00 52.33	N
ATOM	4869	CA	GLY	624	-0.781	64.180	13.175	1.00 52.33	C
ATOM	4870	C	GLY	624	-0.235	62.797	13.286	1.00 52.33	C
ATOM	4871	O	GLY	624	0.359	62.289	12.338	1.00 52.33	O
ATOM	4872	N	VAL	625	-0.495	62.111	14.414	1.00113.73	N
ATOM	4873	CA	VAL	625	0.078	60.808	14.583	1.00113.73	C
ATOM	4874	CB	VAL	625	-0.248	60.152	15.896	1.00113.73	C
ATOM	4875	CG1	VAL	625	0.344	61.000	17.032	1.00113.73	C
ATOM	4876	CG2	VAL	625	-1.763	59.943	16.001	1.00113.73	C
ATOM	4877	C	VAL	625	-0.440	59.948	13.475	1.00113.73	C

ATOM	4878	O	VAL	625	0.230	59.010	13.048	1.00113.73	O
ATOM	4879	N	PHE	626	-1.654	60.251	12.975	1.00115.75	N
ATOM	4880	CA	PHE	626	-2.207	59.435	11.932	1.00115.75	C
ATOM	4881	CB	PHE	626	-3.621	59.857	11.496	1.00115.75	C
ATOM	4882	CG	PHE	626	-4.185	58.718	10.708	1.00115.75	C
ATOM	4883	CD1	PHE	626	-3.832	58.509	9.394	1.00115.75	C
ATOM	4884	CD2	PHE	626	-5.080	57.851	11.295	1.00115.75	C
ATOM	4885	CE1	PHE	626	-4.357	57.454	8.682	1.00115.75	C
ATOM	4886	CE2	PHE	626	-5.609	56.796	10.589	1.00115.75	C
ATOM	4887	CZ	PHE	626	-5.248	56.595	9.278	1.00115.75	C
ATOM	4888	C	PHE	626	-1.330	59.488	10.711	1.00115.75	C
ATOM	4889	O	PHE	626	-0.906	58.452	10.203	1.00115.75	O
ATOM	4890	N	CYS	627	-0.985	60.696	10.221	1.00 72.22	N
ATOM	4891	CA	CYS	627	-0.181	60.788	9.032	1.00 72.22	C
ATOM	4892	CB	CYS	627	-0.022	62.233	8.513	1.00 72.22	C
ATOM	4893	SG	CYS	627	0.739	63.366	9.712	1.00 72.22	S
ATOM	4894	C	CYS	627	1.161	60.208	9.346	1.00 72.22	C
ATOM	4895	O	CYS	627	1.859	59.720	8.457	1.00 72.22	O
ATOM	4896	N	ALA	628	1.550	60.238	10.638	1.00 58.95	N
ATOM	4897	CA	ALA	628	2.833	59.725	11.022	1.00 58.95	C
ATOM	4898	CB	ALA	628	3.041	59.741	12.545	1.00 58.95	C
ATOM	4899	C	ALA	628	2.865	58.312	10.572	1.00 58.95	C
ATOM	4900	O	ALA	628	3.825	57.875	9.937	1.00 58.95	O
ATOM	4901	N	ILE	629	1.764	57.585	10.813	1.00118.54	N
ATOM	4902	CA	ILE	629	1.738	56.214	10.416	1.00118.54	C
ATOM	4903	CB	ILE	629	0.450	55.526	10.786	1.00118.54	C
ATOM	4904	CG1	ILE	629	0.208	55.676	12.297	1.00118.54	C
ATOM	4905	CG2	ILE	629	0.533	54.059	10.323	1.00118.54	C
ATOM	4906	CD1	ILE	629	1.392	55.209	13.140	1.00118.54	C
ATOM	4907	C	ILE	629	1.892	56.162	8.922	1.00118.54	C
ATOM	4908	O	ILE	629	2.679	55.368	8.410	1.00118.54	O
ATOM	4909	N	ILE	630	1.182	57.036	8.173	1.00111.63	N
ATOM	4910	CA	ILE	630	1.207	56.935	6.735	1.00111.63	C
ATOM	4911	CB	ILE	630	0.214	57.828	6.023	1.00111.63	C
ATOM	4912	CG1	ILE	630	0.573	59.323	6.073	1.00111.63	C
ATOM	4913	CG2	ILE	630	-1.164	57.524	6.633	1.00111.63	C
ATOM	4914	CD1	ILE	630	1.616	59.739	5.033	1.00111.63	C
ATOM	4915	C	ILE	630	2.578	57.211	6.202	1.00111.63	C
ATOM	4916	O	ILE	630	3.040	56.505	5.304	1.00111.63	O
ATOM	4917	N	ASN	631	3.282	58.231	6.742	1.00138.28	N
ATOM	4918	CA	ASN	631	4.547	58.521	6.136	1.00138.28	C
ATOM	4919	CB	ASN	631	5.253	59.839	6.539	1.00138.28	C
ATOM	4920	CG	ASN	631	5.972	59.800	7.873	1.00138.28	C
ATOM	4921	OD1	ASN	631	5.790	58.899	8.686	1.00138.28	O
ATOM	4922	ND2	ASN	631	6.837	60.827	8.095	1.00138.28	N
ATOM	4923	C	ASN	631	5.429	57.343	6.328	1.00138.28	C
ATOM	4924	O	ASN	631	6.258	57.032	5.471	1.00138.28	O
ATOM	4925	N	GLY	632	5.236	56.626	7.450	1.00 64.12	N
ATOM	4926	CA	GLY	632	6.047	55.478	7.647	1.00 64.12	C
ATOM	4927	C	GLY	632	5.818	54.535	6.509	1.00 64.12	C
ATOM	4928	O	GLY	632	6.768	54.102	5.866	1.00 64.12	O
ATOM	4929	N	GLY	633	4.549	54.252	6.169	1.00 52.81	N
ATOM	4930	CA	GLY	633	4.249	53.316	5.118	1.00 52.81	C
ATOM	4931	C	GLY	633	4.846	53.815	3.840	1.00 52.81	C
ATOM	4932	O	GLY	633	5.299	53.042	2.995	1.00 52.81	O
ATOM	4933	N	LEU	634	4.881	55.145	3.680	1.00 92.94	N
ATOM	4934	CA	LEU	634	5.336	55.740	2.462	1.00 92.94	C
ATOM	4935	CB	LEU	634	5.371	57.274	2.587	1.00 92.94	C
ATOM	4936	CG	LEU	634	5.675	58.038	1.287	1.00 92.94	C
ATOM	4937	CD1	LEU	634	4.557	57.836	0.251	1.00 92.94	C
ATOM	4938	CD2	LEU	634	5.938	59.525	1.582	1.00 92.94	C
ATOM	4939	C	LEU	634	6.732	55.242	2.198	1.00 92.94	C
ATOM	4940	O	LEU	634	7.093	54.963	1.053	1.00 92.94	O
ATOM	4941	N	GLN	635	7.556	55.119	3.260	1.00103.60	N
ATOM	4942	CA	GLN	635	8.918	54.679	3.104	1.00103.60	C
ATOM	4943	CB	GLN	635	9.709	54.797	4.423	1.00103.60	C
ATOM	4944	CG	GLN	635	11.165	54.343	4.331	1.00103.60	C
ATOM	4945	CD	GLN	635	11.981	55.506	3.801	1.00103.60	C
ATOM	4946	OE1	GLN	635	11.712	56.663	4.121	1.00103.60	O
ATOM	4947	NE2	GLN	635	13.008	55.196	2.966	1.00103.60	N
ATOM	4948	C	GLN	635	8.990	53.262	2.591	1.00103.60	C
ATOM	4949	O	GLN	635	9.595	53.054	1.537	1.00103.60	O
ATOM	4950	N	PRO	636	8.368	52.270	3.199	1.00105.70	N
ATOM	4951	CA	PRO	636	8.509	50.975	2.600	1.00105.70	C

ATOM	4952	CD	PRO	636	8.329	52.137	4.646	1.00105.70	C
ATOM	4953	CB	PRO	636	7.939	49.982	3.604	1.00105.70	C
ATOM	4954	CG	PRO	636	8.290	50.632	4.952	1.00105.70	C
ATOM	4955	C	PRO	636	7.906	50.925	1.230	1.00105.70	C
ATOM	4956	O	PRO	636	8.331	50.112	0.410	1.00105.70	O
ATOM	4957	N	ALA	637	6.941	51.812	0.944	1.00 50.94	N
ATOM	4958	CA	ALA	637	6.302	51.802	-0.344	1.00 50.94	C
ATOM	4959	CB	ALA	637	5.247	52.911	-0.495	1.00 50.94	C
ATOM	4960	C	ALA	637	7.344	52.037	-1.393	1.00 50.94	C
ATOM	4961	O	ALA	637	7.352	51.386	-2.438	1.00 50.94	O
ATOM	4962	N	PHE	638	8.279	52.961	-1.125	1.00 91.95	N
ATOM	4963	CA	PHE	638	9.303	53.265	-2.080	1.00 91.95	C
ATOM	4964	CB	PHE	638	10.285	54.345	-1.610	1.00 91.95	C
ATOM	4965	CG	PHE	638	11.469	54.221	-2.506	1.00 91.95	C
ATOM	4966	CD1	PHE	638	11.456	54.711	-3.792	1.00 91.95	C
ATOM	4967	CD2	PHE	638	12.604	53.596	-2.044	1.00 91.95	C
ATOM	4968	CE1	PHE	638	12.563	54.578	-4.599	1.00 91.95	C
ATOM	4969	CE2	PHE	638	13.713	53.461	-2.844	1.00 91.95	C
ATOM	4970	CZ	PHE	638	13.692	53.953	-4.127	1.00 91.95	C
ATOM	4971	C	PHE	638	10.100	52.053	-2.323	1.00 91.95	C
ATOM	4972	O	PHE	638	10.530	51.783	-3.446	1.00 91.95	O
ATOM	4973	N	ALA	639	10.298	51.287	-1.248	1.00 64.20	N
ATOM	4974	CA	ALA	639	11.107	50.129	-1.339	1.00 64.20	C
ATOM	4975	CB	ALA	639	11.028	49.390	-0.011	1.00 64.20	C
ATOM	4976	C	ALA	639	10.547	49.254	-2.440	1.00 64.20	C
ATOM	4977	O	ALA	639	11.293	48.769	-3.291	1.00 64.20	O
ATOM	4978	N	ILE	640	9.213	49.056	-2.479	1.00118.53	N
ATOM	4979	CA	ILE	640	8.594	48.228	-3.492	1.00118.53	C
ATOM	4980	CB	ILE	640	7.190	47.799	-3.160	1.00118.53	C
ATOM	4981	CG1	ILE	640	6.773	46.639	-4.082	1.00118.53	C
ATOM	4982	CG2	ILE	640	6.258	49.016	-3.264	1.00118.53	C
ATOM	4983	CD1	ILE	640	5.458	45.966	-3.690	1.00118.53	C
ATOM	4984	C	ILE	640	8.557	48.844	-4.865	1.00118.53	C
ATOM	4985	O	ILE	640	8.813	48.165	-5.860	1.00118.53	O
ATOM	4986	N	ILE	641	8.235	50.147	-4.970	1.00118.11	N
ATOM	4987	CA	ILE	641	8.041	50.723	-6.273	1.00118.11	C
ATOM	4988	CB	ILE	641	7.646	52.176	-6.211	1.00118.11	C
ATOM	4989	CG1	ILE	641	7.149	52.657	-7.580	1.00118.11	C
ATOM	4990	CG2	ILE	641	8.815	52.994	-5.643	1.00118.11	C
ATOM	4991	CD1	ILE	641	5.828	52.014	-7.981	1.00118.11	C
ATOM	4992	C	ILE	641	9.312	50.574	-7.053	1.00118.11	C
ATOM	4993	O	ILE	641	9.286	50.214	-8.230	1.00118.11	O
ATOM	4994	N	PHE	642	10.457	50.837	-6.399	1.00119.02	N
ATOM	4995	CA	PHE	642	11.749	50.712	-7.010	1.00119.02	C
ATOM	4996	CB	PHE	642	12.858	51.180	-6.050	1.00119.02	C
ATOM	4997	CG	PHE	642	14.181	50.669	-6.507	1.00119.02	C
ATOM	4998	CD1	PHE	642	14.927	51.337	-7.450	1.00119.02	C
ATOM	4999	CD2	PHE	642	14.676	49.500	-5.977	1.00119.02	C
ATOM	5000	CE1	PHE	642	16.148	50.841	-7.851	1.00119.02	C
ATOM	5001	CE2	PHE	642	15.894	49.001	-6.373	1.00119.02	C
ATOM	5002	CZ	PHE	642	16.636	49.674	-7.313	1.00119.02	C
ATOM	5003	C	PHE	642	12.007	49.293	-7.370	1.00119.02	C
ATOM	5004	O	PHE	642	12.356	48.996	-8.513	1.00119.02	O
ATOM	5005	N	SER	643	11.773	48.380	-6.408	1.00107.64	N
ATOM	5006	CA	SER	643	12.056	46.994	-6.617	1.00107.64	C
ATOM	5007	CB	SER	643	11.559	46.104	-5.461	1.00107.64	C
ATOM	5008	OG	SER	643	12.135	46.521	-4.234	1.00107.64	O
ATOM	5009	C	SER	643	11.282	46.581	-7.822	1.00107.64	C
ATOM	5010	O	SER	643	11.745	45.764	-8.616	1.00107.64	O
ATOM	5011	N	LYS	644	10.074	47.148	-7.991	1.00102.11	N
ATOM	5012	CA	LYS	644	9.278	46.779	-9.122	1.00102.11	C
ATOM	5013	CB	LYS	644	7.898	47.453	-9.168	1.00102.11	C
ATOM	5014	CG	LYS	644	7.163	47.137	-10.474	1.00102.11	C
ATOM	5015	CD	LYS	644	5.730	47.662	-10.553	1.00102.11	C
ATOM	5016	CE	LYS	644	5.085	47.421	-11.920	1.00102.11	C
ATOM	5017	NZ	LYS	644	5.889	48.067	-12.984	1.00102.11	N
ATOM	5018	C	LYS	644	9.933	47.186	-10.401	1.00102.11	C
ATOM	5019	O	LYS	644	10.090	46.360	-11.294	1.00102.11	O
ATOM	5020	N	ILE	645	10.376	48.454	-10.521	1.00120.30	N
ATOM	5021	CA	ILE	645	10.839	48.895	-11.806	1.00120.30	C
ATOM	5022	CB	ILE	645	11.224	50.348	-11.850	1.00120.30	C
ATOM	5023	CG1	ILE	645	11.581	50.742	-13.293	1.00120.30	C
ATOM	5024	CG2	ILE	645	12.330	50.621	-10.816	1.00120.30	C
ATOM	5025	CD1	ILE	645	11.714	52.248	-13.507	1.00120.30	C

ATOM	5026	C	ILE	645	12.003	48.087	-12.241	1.00120.30	C
ATOM	5027	O	ILE	645	11.995	47.526	-13.336	1.00120.30	O
ATOM	5028	N	ILE	646	13.004	47.939	-11.364	1.00140.14	N
ATOM	5029	CA	ILE	646	14.172	47.226	-11.752	1.00140.14	C
ATOM	5030	CB	ILE	646	15.213	47.201	-10.667	1.00140.14	C
ATOM	5031	CG1	ILE	646	16.552	46.679	-11.209	1.00140.14	C
ATOM	5032	CG2	ILE	646	14.663	46.424	-9.460	1.00140.14	C
ATOM	5033	CD1	ILE	646	17.723	46.945	-10.266	1.00140.14	C
ATOM	5034	C	ILE	646	13.735	45.844	-12.093	1.00140.14	C
ATOM	5035	O	ILE	646	14.089	45.346	-13.151	1.00140.14	O
ATOM	5036	N	GLY	647	12.873	45.218	-11.274	1.00 55.58	N
ATOM	5037	CA	GLY	647	12.508	43.865	-11.578	1.00 55.58	C
ATOM	5038	C	GLY	647	11.831	43.794	-12.917	1.00 55.58	C
ATOM	5039	O	GLY	647	12.185	42.999	-13.785	1.00 55.58	O
ATOM	5040	N	VAL	648	10.865	44.689	-13.133	1.00130.90	N
ATOM	5041	CA	VAL	648	10.028	44.776	-14.293	1.00130.90	C
ATOM	5042	CB	VAL	648	9.050	45.915	-14.112	1.00130.90	C
ATOM	5043	CG1	VAL	648	8.314	46.229	-15.415	1.00130.90	C
ATOM	5044	CG2	VAL	648	8.087	45.537	-12.978	1.00130.90	C
ATOM	5045	C	VAL	648	10.882	45.070	-15.490	1.00130.90	C
ATOM	5046	O	VAL	648	10.424	44.994	-16.628	1.00130.90	O
ATOM	5047	N	PHE	649	12.058	45.662	-15.259	1.00170.56	N
ATOM	5048	CA	PHE	649	12.960	45.978	-16.324	1.00170.56	C
ATOM	5049	CB	PHE	649	13.596	47.350	-16.063	1.00170.56	C
ATOM	5050	CG	PHE	649	13.919	47.950	-17.378	1.00170.56	C
ATOM	5051	CD1	PHE	649	12.935	48.616	-18.075	1.00170.56	C
ATOM	5052	CD2	PHE	649	15.172	47.845	-17.922	1.00170.56	C
ATOM	5053	CE1	PHE	649	13.192	49.187	-19.298	1.00170.56	C
ATOM	5054	CE2	PHE	649	15.429	48.415	-19.143	1.00170.56	C
ATOM	5055	CZ	PHE	649	14.450	49.087	-19.836	1.00170.56	C
ATOM	5056	C	PHE	649	14.038	44.950	-16.545	1.00170.56	C
ATOM	5057	O	PHE	649	14.630	44.872	-17.620	1.00170.56	O
ATOM	5058	N	THR	650	14.425	44.250	-15.465	1.00 85.96	N
ATOM	5059	CA	THR	650	15.479	43.275	-15.422	1.00 85.96	C
ATOM	5060	CB	THR	650	15.912	42.934	-14.027	1.00 85.96	C
ATOM	5061	OG1	THR	650	14.801	42.479	-13.269	1.00 85.96	O
ATOM	5062	CG2	THR	650	16.554	44.175	-13.383	1.00 85.96	C
ATOM	5063	C	THR	650	15.050	42.012	-16.088	1.00 85.96	C
ATOM	5064	O	THR	650	15.887	41.241	-16.562	1.00 85.96	O
ATOM	5065	N	ARG	651	13.737	41.712	-16.041	1.00167.39	N
ATOM	5066	CA	ARG	651	13.273	40.528	-16.707	1.00167.39	C
ATOM	5067	CB	ARG	651	13.457	39.293	-15.812	1.00167.39	C
ATOM	5068	CG	ARG	651	12.764	39.478	-14.464	1.00167.39	C
ATOM	5069	CD	ARG	651	13.086	38.433	-13.400	1.00167.39	C
ATOM	5070	NE	ARG	651	11.985	38.563	-12.411	1.00167.39	N
ATOM	5071	CZ	ARG	651	11.381	37.458	-11.886	1.00167.39	C
ATOM	5072	NH1	ARG	651	11.918	36.219	-12.091	1.00167.39	N
ATOM	5073	NH2	ARG	651	10.221	37.603	-11.184	1.00167.39	N
ATOM	5074	C	ARG	651	11.814	40.692	-17.046	1.00167.39	C
ATOM	5075	O	ARG	651	10.973	40.686	-16.148	1.00167.39	O
ATOM	5076	N	ILE	652	11.480	40.855	-18.355	1.00142.95	N
ATOM	5077	CA	ILE	652	10.111	41.019	-18.802	1.00142.95	C
ATOM	5078	CB	ILE	652	9.459	42.357	-18.525	1.00142.95	C
ATOM	5079	CG1	ILE	652	10.250	43.475	-19.227	1.00142.95	C
ATOM	5080	CG2	ILE	652	9.208	42.566	-17.024	1.00142.95	C
ATOM	5081	CD1	ILE	652	9.499	44.804	-19.319	1.00142.95	C
ATOM	5082	C	ILE	652	10.057	40.993	-20.305	1.00142.95	C
ATOM	5083	O	ILE	652	11.048	40.742	-20.987	1.00142.95	O
ATOM	5084	N	ASP	653	8.844	41.275	-20.845	1.00 95.22	N
ATOM	5085	CA	ASP	653	8.598	41.372	-22.260	1.00 95.22	C
ATOM	5086	CB	ASP	653	7.110	41.331	-22.648	1.00 95.22	C
ATOM	5087	CG	ASP	653	7.043	41.190	-24.164	1.00 95.22	C
ATOM	5088	OD1	ASP	653	8.052	40.726	-24.759	1.00 95.22	O
ATOM	5089	OD2	ASP	653	5.986	41.548	-24.749	1.00 95.22	O
ATOM	5090	C	ASP	653	9.143	42.673	-22.774	1.00 95.22	C
ATOM	5091	O	ASP	653	9.107	43.698	-22.095	1.00 95.22	O
ATOM	5092	N	ASP	654	9.650	42.660	-24.022	1.00 48.20	N
ATOM	5093	CA	ASP	654	10.256	43.818	-24.607	1.00 48.20	C
ATOM	5094	CB	ASP	654	10.897	43.546	-25.985	1.00 48.20	C
ATOM	5095	CG	ASP	654	12.173	42.728	-25.824	1.00 48.20	C
ATOM	5096	OD1	ASP	654	12.698	42.641	-24.682	1.00 48.20	O
ATOM	5097	OD2	ASP	654	12.646	42.184	-26.858	1.00 48.20	O
ATOM	5098	C	ASP	654	9.252	44.909	-24.795	1.00 48.20	C
ATOM	5099	O	ASP	654	9.549	46.066	-24.499	1.00 48.20	O

ATOM	5100	N	PRO	655	8.074	44.612	-25.266	1.00165.78	N
ATOM	5101	CA	PRO	655	7.151	45.684	-25.502	1.00165.78	C
ATOM	5102	CD	PRO	655	7.879	43.512	-26.196	1.00165.78	C
ATOM	5103	CB	PRO	655	6.077	45.121	-26.427	1.00165.78	C
ATOM	5104	CG	PRO	655	6.801	43.992	-27.179	1.00165.78	C
ATOM	5105	C	PRO	655	6.592	46.219	-24.232	1.00165.78	C
ATOM	5106	O	PRO	655	6.441	45.467	-23.271	1.00165.78	O
ATOM	5107	N	GLU	656	6.272	47.521	-24.236	1.00121.51	N
ATOM	5108	CA	GLU	656	5.632	48.203	-23.155	1.00121.51	C
ATOM	5109	CB	GLU	656	4.331	47.505	-22.735	1.00121.51	C
ATOM	5110	CG	GLU	656	3.354	47.334	-23.903	1.00121.51	C
ATOM	5111	CD	GLU	656	3.164	48.679	-24.594	1.00121.51	C
ATOM	5112	OE1	GLU	656	2.650	49.621	-23.935	1.00121.51	O
ATOM	5113	OE2	GLU	656	3.534	48.781	-25.794	1.00121.51	O
ATOM	5114	C	GLU	656	6.548	48.293	-21.974	1.00121.51	C
ATOM	5115	O	GLU	656	6.128	48.704	-20.892	1.00121.51	O
ATOM	5116	N	THR	657	7.843	47.978	-22.166	1.00 64.58	N
ATOM	5117	CA	THR	657	8.801	48.134	-21.117	1.00 64.58	C
ATOM	5118	CB	THR	657	10.190	47.723	-21.519	1.00 64.58	C
ATOM	5119	OG1	THR	657	10.610	48.459	-22.660	1.00 64.58	O
ATOM	5120	CG2	THR	657	10.212	46.215	-21.811	1.00 64.58	C
ATOM	5121	C	THR	657	8.839	49.600	-20.862	1.00 64.58	C
ATOM	5122	O	THR	657	9.067	50.046	-19.739	1.00 64.58	O
ATOM	5123	N	LYS	658	8.644	50.386	-21.937	1.00152.01	N
ATOM	5124	CA	LYS	658	8.650	51.813	-21.815	1.00152.01	C
ATOM	5125	CB	LYS	658	8.401	52.573	-23.132	1.00152.01	C
ATOM	5126	CG	LYS	658	9.507	52.472	-24.185	1.00152.01	C
ATOM	5127	CD	LYS	658	9.504	51.165	-24.977	1.00152.01	C
ATOM	5128	CE	LYS	658	8.474	51.147	-26.110	1.00152.01	C
ATOM	5129	NZ	LYS	658	7.104	51.049	-25.555	1.00152.01	N
ATOM	5130	C	LYS	658	7.520	52.207	-20.929	1.00152.01	C
ATOM	5131	O	LYS	658	7.673	53.064	-20.064	1.00152.01	O
ATOM	5132	N	ARG	659	6.341	51.602	-21.147	1.00101.29	N
ATOM	5133	CA	ARG	659	5.165	51.932	-20.398	1.00101.29	C
ATOM	5134	CB	ARG	659	3.940	51.168	-20.924	1.00101.29	C
ATOM	5135	CG	ARG	659	2.615	51.792	-20.506	1.00101.29	C
ATOM	5136	CD	ARG	659	2.383	53.129	-21.206	1.00101.29	C
ATOM	5137	NE	ARG	659	1.050	53.644	-20.799	1.00101.29	N
ATOM	5138	CZ	ARG	659	0.369	54.438	-21.675	1.00101.29	C
ATOM	5139	NH1	ARG	659	0.908	54.688	-22.904	1.00101.29	N
ATOM	5140	NH2	ARG	659	-0.837	54.974	-21.329	1.00101.29	N
ATOM	5141	C	ARG	659	5.370	51.517	-18.981	1.00101.29	C
ATOM	5142	O	ARG	659	5.054	52.257	-18.050	1.00101.29	O
ATOM	5143	N	GLN	660	5.922	50.304	-18.789	1.00 59.24	N
ATOM	5144	CA	GLN	660	6.118	49.783	-17.472	1.00 59.24	C
ATOM	5145	CB	GLN	660	6.754	48.383	-17.487	1.00 59.24	C
ATOM	5146	CG	GLN	660	5.934	47.344	-18.259	1.00 59.24	C
ATOM	5147	CD	GLN	660	4.589	47.170	-17.567	1.00 59.24	C
ATOM	5148	OE1	GLN	660	4.519	46.863	-16.378	1.00 59.24	O
ATOM	5149	NE2	GLN	660	3.485	47.376	-18.335	1.00 59.24	N
ATOM	5150	C	GLN	660	7.075	50.692	-16.792	1.00 59.24	C
ATOM	5151	O	GLN	660	6.866	51.098	-15.648	1.00 59.24	O
ATOM	5152	N	ASN	661	8.158	51.051	-17.501	1.00104.66	N
ATOM	5153	CA	ASN	661	9.117	51.898	-16.880	1.00104.66	C
ATOM	5154	CB	ASN	661	10.334	52.155	-17.777	1.00104.66	C
ATOM	5155	CG	ASN	661	11.489	52.543	-16.869	1.00104.66	C
ATOM	5156	OD1	ASN	661	11.452	53.572	-16.197	1.00104.66	O
ATOM	5157	ND2	ASN	661	12.546	51.688	-16.843	1.00104.66	N
ATOM	5158	C	ASN	661	8.458	53.200	-16.575	1.00104.66	C
ATOM	5159	O	ASN	661	8.206	53.498	-15.413	1.00104.66	O
ATOM	5160	N	SER	662	7.991	53.909	-17.624	1.00 59.26	N
ATOM	5161	CA	SER	662	7.462	55.241	-17.517	1.00 59.26	C
ATOM	5162	CB	SER	662	6.792	55.723	-18.817	1.00 59.26	C
ATOM	5163	OG	SER	662	7.743	55.805	-19.868	1.00 59.26	O
ATOM	5164	C	SER	662	6.417	55.256	-16.455	1.00 59.26	C
ATOM	5165	O	SER	662	6.329	56.200	-15.673	1.00 59.26	O
ATOM	5166	N	ASN	663	5.606	54.193	-16.378	1.00 83.78	N
ATOM	5167	CA	ASN	663	4.589	54.181	-15.376	1.00 83.78	C
ATOM	5168	CB	ASN	663	3.688	52.945	-15.520	1.00 83.78	C
ATOM	5169	CG	ASN	663	2.579	53.034	-14.489	1.00 83.78	C
ATOM	5170	OD1	ASN	663	2.824	52.993	-13.284	1.00 83.78	O
ATOM	5171	ND2	ASN	663	1.319	53.163	-14.983	1.00 83.78	N
ATOM	5172	C	ASN	663	5.206	54.146	-14.014	1.00 83.78	C
ATOM	5173	O	ASN	663	5.033	55.054	-13.203	1.00 83.78	O

ATOM	5174	N	LEU	664	6.046	53.135	-13.769	1.00176.59	N
ATOM	5175	CA	LEU	664	6.568	52.905	-12.461	1.00176.59	C
ATOM	5176	CB	LEU	664	7.407	51.621	-12.490	1.00176.59	C
ATOM	5177	CG	LEU	664	7.576	50.980	-11.115	1.00176.59	C
ATOM	5178	CD1	LEU	664	8.375	51.887	-10.192	1.00176.59	C
ATOM	5179	CD2	LEU	664	6.213	50.575	-10.529	1.00176.59	C
ATOM	5180	C	LEU	664	7.373	54.119	-12.095	1.00176.59	C
ATOM	5181	O	LEU	664	7.376	54.555	-10.944	1.00176.59	O
ATOM	5182	N	PHE	665	8.059	54.717	-13.088	1.00144.06	N
ATOM	5183	CA	PHE	665	8.851	55.897	-12.883	1.00144.06	C
ATOM	5184	CB	PHE	665	9.499	56.302	-14.225	1.00144.06	C
ATOM	5185	CG	PHE	665	9.317	57.742	-14.552	1.00144.06	C
ATOM	5186	CD1	PHE	665	10.176	58.711	-14.098	1.00144.06	C
ATOM	5187	CD2	PHE	665	8.261	58.114	-15.352	1.00144.06	C
ATOM	5188	CE1	PHE	665	9.963	60.025	-14.443	1.00144.06	C
ATOM	5189	CE2	PHE	665	8.042	59.423	-15.699	1.00144.06	C
ATOM	5190	CZ	PHE	665	8.902	60.387	-15.240	1.00144.06	C
ATOM	5191	C	PHE	665	7.998	56.987	-12.298	1.00144.06	C
ATOM	5192	O	PHE	665	8.242	57.426	-11.176	1.00144.06	O
ATOM	5193	N	SER	666	6.913	57.389	-12.979	1.00 47.66	N
ATOM	5194	CA	SER	666	6.095	58.445	-12.453	1.00 47.66	C
ATOM	5195	CB	SER	666	4.899	58.793	-13.357	1.00 47.66	C
ATOM	5196	OG	SER	666	4.094	59.786	-12.737	1.00 47.66	O
ATOM	5197	C	SER	666	5.535	57.990	-11.145	1.00 47.66	C
ATOM	5198	O	SER	666	5.390	58.771	-10.206	1.00 47.66	O
ATOM	5199	N	LEU	667	5.251	56.682	-11.039	1.00121.29	N
ATOM	5200	CA	LEU	667	4.628	56.148	-9.868	1.00121.29	C
ATOM	5201	CB	LEU	667	4.515	54.612	-9.933	1.00121.29	C
ATOM	5202	CG	LEU	667	3.536	53.983	-8.920	1.00121.29	C
ATOM	5203	CD1	LEU	667	3.781	54.453	-7.477	1.00121.29	C
ATOM	5204	CD2	LEU	667	2.086	54.148	-9.392	1.00121.29	C
ATOM	5205	C	LEU	667	5.535	56.461	-8.725	1.00121.29	C
ATOM	5206	O	LEU	667	5.078	56.917	-7.677	1.00121.29	O
ATOM	5207	N	LEU	668	6.857	56.251	-8.900	1.00120.99	N
ATOM	5208	CA	LEU	668	7.711	56.514	-7.781	1.00120.99	C
ATOM	5209	CB	LEU	668	9.230	56.278	-7.953	1.00120.99	C
ATOM	5210	CG	LEU	668	9.719	54.829	-8.140	1.00120.99	C
ATOM	5211	CD1	LEU	668	9.761	54.419	-9.616	1.00120.99	C
ATOM	5212	CD2	LEU	668	11.048	54.598	-7.407	1.00120.99	C
ATOM	5213	C	LEU	668	7.604	57.965	-7.443	1.00120.99	C
ATOM	5214	O	LEU	668	7.545	58.330	-6.271	1.00120.99	O
ATOM	5215	N	PHE	669	7.600	58.833	-8.471	1.00 98.86	N
ATOM	5216	CA	PHE	669	7.573	60.249	-8.248	1.00 98.86	C
ATOM	5217	CB	PHE	669	7.681	61.018	-9.578	1.00 98.86	C
ATOM	5218	CG	PHE	669	7.406	62.457	-9.325	1.00 98.86	C
ATOM	5219	CD1	PHE	669	8.370	63.261	-8.770	1.00 98.86	C
ATOM	5220	CD2	PHE	669	6.177	63.001	-9.622	1.00 98.86	C
ATOM	5221	CE1	PHE	669	8.122	64.591	-8.530	1.00 98.86	C
ATOM	5222	CE2	PHE	669	5.923	64.331	-9.384	1.00 98.86	C
ATOM	5223	CZ	PHE	669	6.897	65.130	-8.838	1.00 98.86	C
ATOM	5224	C	PHE	669	6.321	60.688	-7.565	1.00 98.86	C
ATOM	5225	O	PHE	669	6.351	61.153	-6.429	1.00 98.86	O
ATOM	5226	N	LEU	670	5.168	60.443	-8.198	1.00139.85	N
ATOM	5227	CA	LEU	670	3.929	60.959	-7.704	1.00139.85	C
ATOM	5228	CB	LEU	670	2.752	60.467	-8.567	1.00139.85	C
ATOM	5229	CG	LEU	670	1.357	60.927	-8.111	1.00139.85	C
ATOM	5230	CD1	LEU	670	0.848	60.182	-6.863	1.00139.85	C
ATOM	5231	CD2	LEU	670	1.331	62.451	-7.944	1.00139.85	C
ATOM	5232	C	LEU	670	3.722	60.447	-6.328	1.00139.85	C
ATOM	5233	O	LEU	670	3.407	61.211	-5.415	1.00139.85	O
ATOM	5234	N	ALA	671	3.916	59.135	-6.135	1.00 77.81	N
ATOM	5235	CA	ALA	671	3.616	58.638	-4.834	1.00 77.81	C
ATOM	5236	CB	ALA	671	3.775	57.111	-4.740	1.00 77.81	C
ATOM	5237	C	ALA	671	4.527	59.242	-3.815	1.00 77.81	C
ATOM	5238	O	ALA	671	4.095	60.011	-2.962	1.00 77.81	O
ATOM	5239	N	LEU	672	5.842	59.019	-3.947	1.00110.91	N
ATOM	5240	CA	LEU	672	6.710	59.460	-2.899	1.00110.91	C
ATOM	5241	CB	LEU	672	8.157	59.021	-3.172	1.00110.91	C
ATOM	5242	CG	LEU	672	9.188	59.417	-2.104	1.00110.91	C
ATOM	5243	CD1	LEU	672	8.995	58.632	-0.798	1.00110.91	C
ATOM	5244	CD2	LEU	672	10.604	59.282	-2.667	1.00110.91	C
ATOM	5245	C	LEU	672	6.683	60.947	-2.800	1.00110.91	C
ATOM	5246	O	LEU	672	6.290	61.479	-1.764	1.00110.91	O
ATOM	5247	N	GLY	673	6.982	61.652	-3.912	1.00 57.01	N

ATOM	5248	CA	GLY	673	7.162	63.070	-3.837	1.00	57.01	C
ATOM	5249	C	GLY	673	5.938	63.723	-3.286	1.00	57.01	C
ATOM	5250	O	GLY	673	6.027	64.511	-2.346	1.00	57.01	O
ATOM	5251	N	ILE	674	4.752	63.416	-3.837	1.00	120.36	N
ATOM	5252	CA	ILE	674	3.599	64.114	-3.350	1.00	120.36	C
ATOM	5253	CB	ILE	674	2.388	63.926	-4.211	1.00	120.36	C
ATOM	5254	CG1	ILE	674	2.588	64.614	-5.575	1.00	120.36	C
ATOM	5255	CG2	ILE	674	1.177	64.453	-3.422	1.00	120.36	C
ATOM	5256	CD1	ILE	674	3.718	64.022	-6.416	1.00	120.36	C
ATOM	5257	C	ILE	674	3.224	63.711	-1.958	1.00	120.36	C
ATOM	5258	O	ILE	674	3.260	64.544	-1.057	1.00	120.36	O
ATOM	5259	N	ILE	675	2.996	62.403	-1.719	1.00	68.34	N
ATOM	5260	CA	ILE	675	2.414	61.953	-0.481	1.00	68.34	C
ATOM	5261	CB	ILE	675	2.285	60.462	-0.415	1.00	68.34	C
ATOM	5262	CG1	ILE	675	1.297	59.989	-1.498	1.00	68.34	C
ATOM	5263	CG2	ILE	675	1.880	60.076	1.017	1.00	68.34	C
ATOM	5264	CD1	ILE	675	1.254	58.475	-1.691	1.00	68.34	C
ATOM	5265	C	ILE	675	3.258	62.420	0.657	1.00	68.34	C
ATOM	5266	O	ILE	675	2.742	62.864	1.681	1.00	68.34	O
ATOM	5267	N	SER	676	4.587	62.343	0.520	1.00	79.52	N
ATOM	5268	CA	SER	676	5.417	62.781	1.602	1.00	79.52	C
ATOM	5269	CB	SER	676	6.898	62.439	1.400	1.00	79.52	C
ATOM	5270	OG	SER	676	7.642	62.853	2.536	1.00	79.52	O
ATOM	5271	C	SER	676	5.317	64.260	1.775	1.00	79.52	C
ATOM	5272	O	SER	676	5.123	64.717	2.900	1.00	79.52	O
ATOM	5273	N	PHE	677	5.380	65.032	0.663	1.00	130.36	N
ATOM	5274	CA	PHE	677	5.354	66.467	0.732	1.00	130.36	C
ATOM	5275	CB	PHE	677	5.218	67.132	-0.644	1.00	130.36	C
ATOM	5276	CG	PHE	677	5.096	68.601	-0.424	1.00	130.36	C
ATOM	5277	CD1	PHE	677	3.865	69.185	-0.231	1.00	130.36	C
ATOM	5278	CD2	PHE	677	6.215	69.397	-0.405	1.00	130.36	C
ATOM	5279	CE1	PHE	677	3.751	70.541	-0.026	1.00	130.36	C
ATOM	5280	CE2	PHE	677	6.109	70.753	-0.200	1.00	130.36	C
ATOM	5281	CZ	PHE	677	4.876	71.329	-0.013	1.00	130.36	C
ATOM	5282	C	PHE	677	4.134	66.799	1.505	1.00	130.36	C
ATOM	5283	O	PHE	677	4.165	67.655	2.389	1.00	130.36	O
ATOM	5284	N	ILE	678	3.029	66.096	1.211	1.00	182.03	N
ATOM	5285	CA	ILE	678	1.883	66.378	2.010	1.00	182.03	C
ATOM	5286	CB	ILE	678	0.562	65.871	1.506	1.00	182.03	C
ATOM	5287	CG1	ILE	678	-0.556	66.614	2.255	1.00	182.03	C
ATOM	5288	CG2	ILE	678	0.462	64.357	1.721	1.00	182.03	C
ATOM	5289	CD1	ILE	678	-0.589	68.122	2.002	1.00	182.03	C
ATOM	5290	C	ILE	678	2.089	65.907	3.419	1.00	182.03	C
ATOM	5291	O	ILE	678	1.904	66.710	4.327	1.00	182.03	O
ATOM	5292	N	THR	679	2.581	64.658	3.642	1.00	149.26	N
ATOM	5293	CA	THR	679	2.632	64.098	4.976	1.00	149.26	C
ATOM	5294	CB	THR	679	3.280	62.733	5.065	1.00	149.26	C
ATOM	5295	OG1	THR	679	3.031	62.165	6.342	1.00	149.26	O
ATOM	5296	CG2	THR	679	4.797	62.836	4.850	1.00	149.26	C
ATOM	5297	C	THR	679	3.365	65.031	5.893	1.00	149.26	C
ATOM	5298	O	THR	679	2.903	65.291	7.004	1.00	149.26	O
ATOM	5299	N	PHE	680	4.512	65.578	5.445	1.00	106.19	N
ATOM	5300	CA	PHE	680	5.259	66.493	6.260	1.00	106.19	C
ATOM	5301	CB	PHE	680	6.589	66.894	5.609	1.00	106.19	C
ATOM	5302	CG	PHE	680	7.537	65.760	5.807	1.00	106.19	C
ATOM	5303	CD1	PHE	680	7.306	64.531	5.232	1.00	106.19	C
ATOM	5304	CD2	PHE	680	8.677	65.940	6.555	1.00	106.19	C
ATOM	5305	CE1	PHE	680	8.192	63.495	5.417	1.00	106.19	C
ATOM	5306	CE2	PHE	680	9.568	64.910	6.740	1.00	106.19	C
ATOM	5307	CZ	PHE	680	9.325	63.683	6.172	1.00	106.19	C
ATOM	5308	C	PHE	680	4.454	67.716	6.495	1.00	106.19	C
ATOM	5309	O	PHE	680	4.181	68.033	7.647	1.00	106.19	O
ATOM	5310	N	PHE	681	3.950	68.353	5.417	1.00	82.26	N
ATOM	5311	CA	PHE	681	3.274	69.615	5.539	1.00	82.26	C
ATOM	5312	CB	PHE	681	2.621	70.104	4.239	1.00	82.26	C
ATOM	5313	CG	PHE	681	1.960	71.396	4.583	1.00	82.26	C
ATOM	5314	CD1	PHE	681	2.674	72.571	4.585	1.00	82.26	C
ATOM	5315	CD2	PHE	681	0.624	71.432	4.913	1.00	82.26	C
ATOM	5316	CE1	PHE	681	2.066	73.762	4.905	1.00	82.26	C
ATOM	5317	CE2	PHE	681	0.009	72.620	5.235	1.00	82.26	C
ATOM	5318	CZ	PHE	681	0.731	73.789	5.231	1.00	82.26	C
ATOM	5319	C	PHE	681	2.173	69.490	6.540	1.00	82.26	C
ATOM	5320	O	PHE	681	2.062	70.327	7.431	1.00	82.26	O
ATOM	5321	N	LEU	682	1.350	68.432	6.434	1.00	151.69	N



ATOM	5322	CA	LEU	682	0.248	68.218	7.332	1.00151.69	C
ATOM	5323	CB	LEU	682	-0.516	66.939	6.922	1.00151.69	C
ATOM	5324	CG	LEU	682	-1.673	66.489	7.838	1.00151.69	C
ATOM	5325	CD1	LEU	682	-1.197	65.864	9.163	1.00151.69	C
ATOM	5326	CD2	LEU	682	-2.677	67.630	8.043	1.00151.69	C
ATOM	5327	C	LEU	682	0.732	68.023	8.741	1.00151.69	C
ATOM	5328	O	LEU	682	0.360	68.763	9.649	1.00151.69	O
ATOM	5329	N	GLN	683	1.626	67.039	8.935	1.00168.16	N
ATOM	5330	CA	GLN	683	2.131	66.590	10.206	1.00168.16	C
ATOM	5331	CB	GLN	683	3.148	65.484	9.891	1.00168.16	C
ATOM	5332	CG	GLN	683	3.880	64.787	11.026	1.00168.16	C
ATOM	5333	CD	GLN	683	4.775	63.783	10.302	1.00168.16	C
ATOM	5334	OE1	GLN	683	5.301	62.848	10.901	1.00168.16	O
ATOM	5335	NE2	GLN	683	4.936	63.973	8.965	1.00168.16	N
ATOM	5336	C	GLN	683	2.818	67.724	10.895	1.00168.16	C
ATOM	5337	O	GLN	683	2.590	67.986	12.074	1.00168.16	O
ATOM	5338	N	GLY	684	3.663	68.450	10.153	1.00 44.55	N
ATOM	5339	CA	GLY	684	4.401	69.559	10.674	1.00 44.55	C
ATOM	5340	C	GLY	684	3.413	70.599	11.079	1.00 44.55	C
ATOM	5341	O	GLY	684	3.637	71.337	12.035	1.00 44.55	O
ATOM	5342	N	PHE	685	2.314	70.719	10.312	1.00 77.79	N
ATOM	5343	CA	PHE	685	1.302	71.694	10.592	1.00 77.79	C
ATOM	5344	CB	PHE	685	0.171	71.654	9.547	1.00 77.79	C
ATOM	5345	CG	PHE	685	-0.903	72.608	9.951	1.00 77.79	C
ATOM	5346	CD1	PHE	685	-0.856	73.934	9.587	1.00 77.79	C
ATOM	5347	CD2	PHE	685	-1.969	72.166	10.698	1.00 77.79	C
ATOM	5348	CE1	PHE	685	-1.856	74.801	9.965	1.00 77.79	C
ATOM	5349	CE2	PHE	685	-2.972	73.026	11.080	1.00 77.79	C
ATOM	5350	CZ	PHE	685	-2.917	74.349	10.713	1.00 77.79	C
ATOM	5351	C	PHE	685	0.686	71.420	11.930	1.00 77.79	C
ATOM	5352	O	PHE	685	0.660	72.292	12.794	1.00 77.79	O
ATOM	5353	N	THR	686	0.182	70.188	12.128	1.00151.19	N
ATOM	5354	CA	THR	686	-0.527	69.790	13.313	1.00151.19	C
ATOM	5355	CB	THR	686	-1.026	68.390	13.142	1.00151.19	C
ATOM	5356	OG1	THR	686	-1.852	68.312	11.995	1.00151.19	O
ATOM	5357	CG2	THR	686	-1.807	67.968	14.383	1.00151.19	C
ATOM	5358	C	THR	686	0.341	69.783	14.539	1.00151.19	C
ATOM	5359	O	THR	686	0.093	70.533	15.482	1.00151.19	O
ATOM	5360	N	PHE	687	1.409	68.953	14.542	1.00108.52	N
ATOM	5361	CA	PHE	687	2.206	68.801	15.728	1.00108.52	C
ATOM	5362	CB	PHE	687	3.125	67.552	15.798	1.00108.52	C
ATOM	5363	CG	PHE	687	4.309	67.605	14.895	1.00108.52	C
ATOM	5364	CD1	PHE	687	5.373	68.415	15.210	1.00108.52	C
ATOM	5365	CD2	PHE	687	4.389	66.811	13.774	1.00108.52	C
ATOM	5366	CE1	PHE	687	6.484	68.463	14.402	1.00108.52	C
ATOM	5367	CE2	PHE	687	5.498	66.855	12.960	1.00108.52	C
ATOM	5368	CZ	PHE	687	6.547	67.685	13.272	1.00108.52	C
ATOM	5369	C	PHE	687	2.980	70.049	15.987	1.00108.52	C
ATOM	5370	O	PHE	687	3.217	70.406	17.138	1.00108.52	O
ATOM	5371	N	GLY	688	3.419	70.744	14.924	1.00 45.80	N
ATOM	5372	CA	GLY	688	4.144	71.962	15.134	1.00 45.80	C
ATOM	5373	C	GLY	688	3.229	72.905	15.857	1.00 45.80	C
ATOM	5374	O	GLY	688	3.640	73.580	16.799	1.00 45.80	O
ATOM	5375	N	LYS	689	1.945	72.936	15.445	1.00167.35	N
ATOM	5376	CA	LYS	689	0.945	73.805	16.002	1.00167.35	C
ATOM	5377	CB	LYS	689	-0.423	73.641	15.307	1.00167.35	C
ATOM	5378	CG	LYS	689	-1.509	74.608	15.789	1.00167.35	C
ATOM	5379	CD	LYS	689	-2.089	74.272	17.162	1.00167.35	C
ATOM	5380	CE	LYS	689	-3.527	73.747	17.090	1.00167.35	C
ATOM	5381	NZ	LYS	689	-3.700	72.896	15.891	1.00167.35	N
ATOM	5382	C	LYS	689	0.819	73.475	17.452	1.00167.35	C
ATOM	5383	O	LYS	689	0.530	74.349	18.267	1.00167.35	O
ATOM	5384	N	ALA	690	1.010	72.189	17.801	1.00 53.63	N
ATOM	5385	CA	ALA	690	0.978	71.756	19.167	1.00 53.63	C
ATOM	5386	CB	ALA	690	1.181	70.239	19.318	1.00 53.63	C
ATOM	5387	C	ALA	690	2.100	72.435	19.885	1.00 53.63	C
ATOM	5388	O	ALA	690	1.971	72.804	21.050	1.00 53.63	O
ATOM	5389	N	GLY	691	3.257	72.573	19.210	1.00 51.15	N
ATOM	5390	CA	GLY	691	4.389	73.233	19.794	1.00 51.15	C
ATOM	5391	C	GLY	691	4.056	74.679	19.987	1.00 51.15	C
ATOM	5392	O	GLY	691	4.405	75.271	21.006	1.00 51.15	O
ATOM	5393	N	GLU	692	3.381	75.299	18.997	1.00109.22	N
ATOM	5394	CA	GLU	692	3.090	76.695	19.121	1.00109.22	C
ATOM	5395	CB	GLU	692	2.188	77.207	17.985	1.00109.22	C

ATOM	5396	CG	GLU	692	2.766	77.014	16.590	1.00109.22	C
ATOM	5397	CD	GLU	692	1.681	77.280	15.563	1.00109.22	C
ATOM	5398	OE1	GLU	692	0.724	78.023	15.903	1.00109.22	O
ATOM	5399	OE2	GLU	692	1.789	76.736	14.430	1.00109.22	O
ATOM	5400	C	GLU	692	2.257	76.867	20.343	1.00109.22	C
ATOM	5401	O	GLU	692	2.714	77.401	21.348	1.00109.22	O
ATOM	5402	N	ILE	693	1.057	76.260	20.328	1.00233.02	N
ATOM	5403	CA	ILE	693	0.082	76.463	21.356	1.00233.02	C
ATOM	5404	CB	ILE	693	-1.162	75.652	21.087	1.00233.02	C
ATOM	5405	CG1	ILE	693	-2.292	75.957	22.080	1.00233.02	C
ATOM	5406	CG2	ILE	693	-0.770	74.167	21.021	1.00233.02	C
ATOM	5407	CD1	ILE	693	-2.093	75.428	23.501	1.00233.02	C
ATOM	5408	C	ILE	693	0.657	76.083	22.674	1.00233.02	C
ATOM	5409	O	ILE	693	0.581	76.875	23.610	1.00233.02	O
ATOM	5410	N	LEU	694	1.321	74.916	22.762	1.00129.61	N
ATOM	5411	CA	LEU	694	1.796	74.434	24.021	1.00129.61	C
ATOM	5412	CB	LEU	694	2.540	73.091	23.905	1.00129.61	C
ATOM	5413	CG	LEU	694	2.771	72.342	25.237	1.00129.61	C
ATOM	5414	CD1	LEU	694	3.518	71.025	24.982	1.00129.61	C
ATOM	5415	CD2	LEU	694	3.444	73.208	26.314	1.00129.61	C
ATOM	5416	C	LEU	694	2.716	75.474	24.581	1.00129.61	C
ATOM	5417	O	LEU	694	2.623	75.774	25.764	1.00129.61	O
ATOM	5418	N	THR	695	3.608	76.066	23.759	1.00 78.17	N
ATOM	5419	CA	THR	695	4.522	77.088	24.208	1.00 78.17	C
ATOM	5420	CB	THR	695	5.499	77.489	23.143	1.00 78.17	C
ATOM	5421	OG1	THR	695	6.300	76.383	22.761	1.00 78.17	O
ATOM	5422	CG2	THR	695	6.374	78.634	23.672	1.00 78.17	C
ATOM	5423	C	THR	695	3.798	78.346	24.608	1.00 78.17	C
ATOM	5424	O	THR	695	4.132	78.954	25.623	1.00 78.17	O
ATOM	5425	N	LYS	696	2.827	78.801	23.787	1.00126.44	N
ATOM	5426	CA	LYS	696	2.109	80.026	24.024	1.00126.44	C
ATOM	5427	CB	LYS	696	1.163	80.397	22.866	1.00126.44	C
ATOM	5428	CG	LYS	696	1.864	80.745	21.551	1.00126.44	C
ATOM	5429	CD	LYS	696	0.904	80.853	20.361	1.00126.44	C
ATOM	5430	CE	LYS	696	0.444	79.502	19.808	1.00126.44	C
ATOM	5431	NZ	LYS	696	-0.480	79.710	18.671	1.00126.44	N
ATOM	5432	C	LYS	696	1.249	79.925	25.226	1.00126.44	C
ATOM	5433	O	LYS	696	1.398	80.701	26.166	1.00126.44	O
ATOM	5434	N	ARG	697	0.369	78.912	25.246	1.00199.52	N
ATOM	5435	CA	ARG	697	-0.539	78.757	26.330	1.00199.52	C
ATOM	5436	CB	ARG	697	-1.455	77.526	26.227	1.00199.52	C
ATOM	5437	CG	ARG	697	-0.704	76.198	26.205	1.00199.52	C
ATOM	5438	CD	ARG	697	-1.625	74.994	26.381	1.00199.52	C
ATOM	5439	NE	ARG	697	-2.126	75.023	27.782	1.00199.52	N
ATOM	5440	CZ	ARG	697	-2.730	73.912	28.289	1.00199.52	C
ATOM	5441	NH1	ARG	697	-2.895	72.816	27.491	1.00199.52	N
ATOM	5442	NH2	ARG	697	-3.149	73.898	29.588	1.00199.52	N
ATOM	5443	C	ARG	697	0.336	78.577	27.522	1.00199.52	C
ATOM	5444	O	ARG	697	-0.085	78.876	28.632	1.00199.52	O
ATOM	5445	N	LEU	698	1.549	78.016	27.325	1.00172.36	N
ATOM	5446	CA	LEU	698	2.470	77.782	28.404	1.00172.36	C
ATOM	5447	CB	LEU	698	3.666	76.892	28.011	1.00172.36	C
ATOM	5448	CG	LEU	698	4.449	76.260	29.181	1.00172.36	C
ATOM	5449	CD1	LEU	698	5.103	77.305	30.099	1.00172.36	C
ATOM	5450	CD2	LEU	698	3.569	75.245	29.931	1.00172.36	C
ATOM	5451	C	LEU	698	3.048	79.062	28.945	1.00172.36	C
ATOM	5452	O	LEU	698	2.949	79.306	30.142	1.00172.36	O
ATOM	5453	N	ARG	699	3.626	79.941	28.090	1.00122.06	N
ATOM	5454	CA	ARG	699	4.258	81.130	28.596	1.00122.06	C
ATOM	5455	CB	ARG	699	4.872	82.036	27.514	1.00122.06	C
ATOM	5456	CG	ARG	699	6.108	81.426	26.851	1.00122.06	C
ATOM	5457	CD	ARG	699	6.941	82.431	26.054	1.00122.06	C
ATOM	5458	NE	ARG	699	7.986	81.658	25.326	1.00122.06	N
ATOM	5459	CZ	ARG	699	8.796	82.288	24.426	1.00122.06	C
ATOM	5460	NH1	ARG	699	8.673	83.633	24.230	1.00122.06	N
ATOM	5461	NH2	ARG	699	9.711	81.574	23.711	1.00122.06	N
ATOM	5462	C	ARG	699	3.207	81.897	29.308	1.00122.06	C
ATOM	5463	O	ARG	699	3.468	82.513	30.337	1.00122.06	O
ATOM	5464	N	TYR	700	1.983	81.878	28.757	1.00155.51	N
ATOM	5465	CA	TYR	700	0.879	82.544	29.367	1.00155.51	C
ATOM	5466	CB	TYR	700	-0.376	82.496	28.487	1.00155.51	C
ATOM	5467	CG	TYR	700	-1.464	83.196	29.217	1.00155.51	C
ATOM	5468	CD1	TYR	700	-1.512	84.568	29.252	1.00155.51	C
ATOM	5469	CD2	TYR	700	-2.421	82.478	29.892	1.00155.51	C

ATOM	5470	CE1	TYR	700	-2.518	85.214	29.931	1.00155.51	C
ATOM	5471	CE2	TYR	700	-3.428	83.118	30.570	1.00155.51	C
ATOM	5472	CZ	TYR	700	-3.481	84.488	30.589	1.00155.51	C
ATOM	5473	OH	TYR	700	-4.520	85.139	31.286	1.00155.51	O
ATOM	5474	C	TYR	700	0.574	81.892	30.668	1.00155.51	C
ATOM	5475	O	TYR	700	0.540	82.562	31.695	1.00155.51	O
ATOM	5476	N	MET	701	0.439	80.553	30.676	1.00 83.90	N
ATOM	5477	CA	MET	701	0.039	79.883	31.873	1.00 83.90	C
ATOM	5478	CB	MET	701	-0.027	78.351	31.736	1.00 83.90	C
ATOM	5479	CG	MET	701	-1.211	77.852	30.905	1.00 83.90	C
ATOM	5480	SD	MET	701	-1.254	76.053	30.636	1.00 83.90	S
ATOM	5481	CE	MET	701	-1.845	75.616	32.297	1.00 83.90	C
ATOM	5482	C	MET	701	1.045	80.185	32.932	1.00 83.90	C
ATOM	5483	O	MET	701	0.677	80.550	34.045	1.00 83.90	O
ATOM	5484	N	VAL	702	2.345	80.093	32.602	1.00139.56	N
ATOM	5485	CA	VAL	702	3.360	80.308	33.587	1.00139.56	C
ATOM	5486	CB	VAL	702	4.736	79.931	33.103	1.00139.56	C
ATOM	5487	CG1	VAL	702	5.275	80.977	32.117	1.00139.56	C
ATOM	5488	CG2	VAL	702	5.619	79.706	34.336	1.00139.56	C
ATOM	5489	C	VAL	702	3.368	81.734	34.054	1.00139.56	C
ATOM	5490	O	VAL	702	3.403	81.986	35.256	1.00139.56	O
ATOM	5491	N	PHE	703	3.293	82.710	33.124	1.00164.06	N
ATOM	5492	CA	PHE	703	3.419	84.091	33.504	1.00164.06	C
ATOM	5493	CB	PHE	703	3.334	85.062	32.316	1.00164.06	C
ATOM	5494	CG	PHE	703	4.001	86.327	32.740	1.00164.06	C
ATOM	5495	CD1	PHE	703	3.500	87.087	33.770	1.00164.06	C
ATOM	5496	CD2	PHE	703	5.172	86.719	32.133	1.00164.06	C
ATOM	5497	CE1	PHE	703	4.138	88.244	34.156	1.00164.06	C
ATOM	5498	CE2	PHE	703	5.811	87.875	32.513	1.00164.06	C
ATOM	5499	CZ	PHE	703	5.291	88.644	33.525	1.00164.06	C
ATOM	5500	C	PHE	703	2.291	84.438	34.406	1.00164.06	C
ATOM	5501	O	PHE	703	2.477	85.000	35.484	1.00164.06	O
ATOM	5502	N	ARG	704	1.075	84.072	33.984	1.00195.79	N
ATOM	5503	CA	ARG	704	-0.074	84.365	34.764	1.00195.79	C
ATOM	5504	CB	ARG	704	-1.382	83.935	34.094	1.00195.79	C
ATOM	5505	CG	ARG	704	-1.805	84.900	32.989	1.00195.79	C
ATOM	5506	CD	ARG	704	-2.192	86.274	33.533	1.00195.79	C
ATOM	5507	NE	ARG	704	-3.195	86.049	34.612	1.00195.79	N
ATOM	5508	CZ	ARG	704	-4.307	86.837	34.678	1.00195.79	C
ATOM	5509	NH1	ARG	704	-4.518	87.783	33.721	1.00195.79	N
ATOM	5510	NH2	ARG	704	-5.215	86.675	35.685	1.00195.79	N
ATOM	5511	C	ARG	704	0.083	83.638	36.041	1.00195.79	C
ATOM	5512	O	ARG	704	-0.378	84.133	37.060	1.00195.79	O
ATOM	5513	N	SER	705	0.735	82.458	36.033	1.00 78.82	N
ATOM	5514	CA	SER	705	0.895	81.728	37.258	1.00 78.82	C
ATOM	5515	CB	SER	705	1.767	80.467	37.111	1.00 78.82	C
ATOM	5516	OG	SER	705	1.087	79.477	36.354	1.00 78.82	O
ATOM	5517	C	SER	705	1.593	82.646	38.201	1.00 78.82	C
ATOM	5518	O	SER	705	1.267	82.688	39.385	1.00 78.82	O
ATOM	5519	N	MET	706	2.585	83.391	37.682	1.00133.80	N
ATOM	5520	CA	MET	706	3.322	84.352	38.445	1.00133.80	C
ATOM	5521	CB	MET	706	4.497	84.915	37.628	1.00133.80	C
ATOM	5522	CG	MET	706	5.535	83.865	37.225	1.00133.80	C
ATOM	5523	SD	MET	706	6.660	84.398	35.898	1.00133.80	S
ATOM	5524	CE	MET	706	7.749	82.947	35.969	1.00133.80	C
ATOM	5525	C	MET	706	2.496	85.543	38.851	1.00133.80	C
ATOM	5526	O	MET	706	2.414	85.875	40.030	1.00133.80	O
ATOM	5527	N	LEU	707	1.823	86.212	37.890	1.00193.69	N
ATOM	5528	CA	LEU	707	1.103	87.405	38.239	1.00193.69	C
ATOM	5529	CB	LEU	707	0.496	88.145	37.045	1.00193.69	C
ATOM	5530	CG	LEU	707	1.555	88.888	36.218	1.00193.69	C
ATOM	5531	CD1	LEU	707	0.904	89.662	35.066	1.00193.69	C
ATOM	5532	CD2	LEU	707	2.432	89.779	37.115	1.00193.69	C
ATOM	5533	C	LEU	707	0.005	87.059	39.183	1.00193.69	C
ATOM	5534	O	LEU	707	-0.234	87.778	40.153	1.00193.69	O
ATOM	5535	N	ARG	708	-0.695	85.950	38.894	1.00168.56	N
ATOM	5536	CA	ARG	708	-1.768	85.453	39.703	1.00168.56	C
ATOM	5537	CB	ARG	708	-2.356	84.121	39.209	1.00168.56	C
ATOM	5538	CG	ARG	708	-3.004	84.098	37.826	1.00168.56	C
ATOM	5539	CD	ARG	708	-3.172	82.657	37.332	1.00168.56	C
ATOM	5540	NE	ARG	708	-3.836	82.686	36.001	1.00168.56	N
ATOM	5541	CZ	ARG	708	-3.443	81.814	35.027	1.00168.56	C
ATOM	5542	NH1	ARG	708	-2.408	80.955	35.260	1.00168.56	N
ATOM	5543	NH2	ARG	708	-4.078	81.806	33.820	1.00168.56	N

ATOM	5544	C	ARG	708	-1.161	85.079	40.990	1.00168.56	C
ATOM	5545	O	ARG	708	-1.662	85.428	42.058	1.00168.56	O
ATOM	5546	N	GLN	709	-0.017	84.370	40.924	1.00236.50	N
ATOM	5547	CA	GLN	709	0.532	84.020	42.180	1.00236.50	C
ATOM	5548	CB	GLN	709	1.582	82.897	42.234	1.00236.50	C
ATOM	5549	CG	GLN	709	2.925	83.104	41.557	1.00236.50	C
ATOM	5550	CD	GLN	709	3.756	81.959	42.111	1.00236.50	C
ATOM	5551	OE1	GLN	709	4.472	81.271	41.387	1.00236.50	O
ATOM	5552	NE2	GLN	709	3.641	81.747	43.451	1.00236.50	N
ATOM	5553	C	GLN	709	1.012	85.298	42.740	1.00236.50	C
ATOM	5554	O	GLN	709	0.998	86.333	42.080	1.00236.50	O
ATOM	5555	N	ASP	710	1.330	85.291	44.025	1.00253.41	N
ATOM	5556	CA	ASP	710	1.738	86.487	44.663	1.00253.41	C
ATOM	5557	CB	ASP	710	0.612	87.481	45.011	1.00253.41	C
ATOM	5558	CG	ASP	710	0.169	88.275	43.810	1.00253.41	C
ATOM	5559	OD1	ASP	710	1.070	88.681	43.034	1.00253.41	O
ATOM	5560	OD2	ASP	710	-1.060	88.504	43.654	1.00253.41	O
ATOM	5561	C	ASP	710	2.067	85.999	45.990	1.00253.41	C
ATOM	5562	O	ASP	710	2.572	84.890	46.149	1.00253.41	O
ATOM	5563	N	VAL	711	1.692	86.843	46.962	1.00211.71	N
ATOM	5564	CA	VAL	711	1.938	86.608	48.331	1.00211.71	C
ATOM	5565	CB	VAL	711	1.130	85.570	49.067	1.00211.71	C
ATOM	5566	CG1	VAL	711	-0.274	86.160	49.222	1.00211.71	C
ATOM	5567	CG2	VAL	711	1.153	84.204	48.369	1.00211.71	C
ATOM	5568	C	VAL	711	3.391	86.467	48.505	1.00211.71	C
ATOM	5569	O	VAL	711	4.162	87.085	47.777	1.00211.71	O
ATOM	5570	N	SER	712	3.776	85.604	49.447	1.00106.49	N
ATOM	5571	CA	SER	712	5.106	85.413	49.921	1.00106.49	C
ATOM	5572	CB	SER	712	5.160	84.157	50.786	1.00106.49	C
ATOM	5573	OG	SER	712	4.095	84.195	51.724	1.00106.49	O
ATOM	5574	C	SER	712	6.050	85.165	48.794	1.00106.49	C
ATOM	5575	O	SER	712	7.260	85.176	49.011	1.00106.49	O
ATOM	5576	N	TRP	713	5.548	84.901	47.577	1.00134.39	N
ATOM	5577	CA	TRP	713	6.455	84.618	46.505	1.00134.39	C
ATOM	5578	CB	TRP	713	5.688	84.348	45.199	1.00134.39	C
ATOM	5579	CG	TRP	713	6.486	83.765	44.057	1.00134.39	C
ATOM	5580	CD2	TRP	713	6.993	82.419	44.053	1.00134.39	C
ATOM	5581	CD1	TRP	713	6.867	84.325	42.874	1.00134.39	C
ATOM	5582	NE1	TRP	713	7.551	83.402	42.116	1.00134.39	N
ATOM	5583	CE2	TRP	713	7.642	82.226	42.834	1.00134.39	C
ATOM	5584	CE3	TRP	713	6.917	81.425	44.987	1.00134.39	C
ATOM	5585	CZ2	TRP	713	8.224	81.026	42.530	1.00134.39	C
ATOM	5586	CZ3	TRP	713	7.511	80.220	44.682	1.00134.39	C
ATOM	5587	CH2	TRP	713	8.150	80.025	43.475	1.00134.39	C
ATOM	5588	C	TRP	713	7.403	85.773	46.351	1.00134.39	C
ATOM	5589	O	TRP	713	8.564	85.639	46.705	1.00134.39	O
ATOM	5590	N	PHE	714	6.951	86.939	45.858	1.00165.30	N
ATOM	5591	CA	PHE	714	7.733	88.145	45.774	1.00165.30	C
ATOM	5592	CB	PHE	714	7.086	89.161	44.823	1.00165.30	C
ATOM	5593	CG	PHE	714	7.122	88.629	43.429	1.00165.30	C
ATOM	5594	CD1	PHE	714	6.354	87.550	43.053	1.00165.30	C
ATOM	5595	CD2	PHE	714	7.905	89.240	42.480	1.00165.30	C
ATOM	5596	CE1	PHE	714	6.389	87.080	41.760	1.00165.30	C
ATOM	5597	CE2	PHE	714	7.941	88.777	41.187	1.00165.30	C
ATOM	5598	CZ	PHE	714	7.184	87.692	40.822	1.00165.30	C
ATOM	5599	C	PHE	714	7.712	88.768	47.138	1.00165.30	C
ATOM	5600	O	PHE	714	8.619	89.499	47.528	1.00165.30	O
ATOM	5601	N	ASP	715	6.615	88.518	47.879	1.00 97.91	N
ATOM	5602	CA	ASP	715	6.371	89.104	49.166	1.00 97.91	C
ATOM	5603	CB	ASP	715	5.023	88.726	49.793	1.00 97.91	C
ATOM	5604	CG	ASP	715	3.930	89.488	49.057	1.00 97.91	C
ATOM	5605	OD1	ASP	715	4.229	90.093	47.992	1.00 97.91	O
ATOM	5606	OD2	ASP	715	2.773	89.467	49.553	1.00 97.91	O
ATOM	5607	C	ASP	715	7.447	88.711	50.133	1.00 97.91	C
ATOM	5608	O	ASP	715	7.684	89.433	51.102	1.00 97.91	O
ATOM	5609	N	ASP	716	8.045	87.515	49.954	1.00116.55	N
ATOM	5610	CA	ASP	716	9.168	87.064	50.730	1.00116.55	C
ATOM	5611	CB	ASP	716	8.735	86.264	51.971	1.00116.55	C
ATOM	5612	CG	ASP	716	9.815	86.391	53.033	1.00116.55	C
ATOM	5613	OD1	ASP	716	10.237	87.549	53.297	1.00116.55	O
ATOM	5614	OD2	ASP	716	10.234	85.343	53.595	1.00116.55	O
ATOM	5615	C	ASP	716	9.861	86.121	49.786	1.00116.55	C
ATOM	5616	O	ASP	716	9.728	84.904	49.893	1.00116.55	O
ATOM	5617	N	PRO	717	10.591	86.705	48.866	1.00174.41	N

ATOM	5618	CA	PRO	717	11.104	86.065	47.680	1.00174.41	C
ATOM	5619	CD	PRO	717	10.725	88.149	48.811	1.00174.41	C
ATOM	5620	CB	PRO	717	11.230	87.185	46.648	1.00174.41	C
ATOM	5621	CG	PRO	717	11.501	88.428	47.509	1.00174.41	C
ATOM	5622	C	PRO	717	12.358	85.270	47.653	1.00174.41	C
ATOM	5623	O	PRO	717	13.152	85.308	48.594	1.00174.41	O
ATOM	5624	N	LYS	718	12.511	84.536	46.525	1.00307.78	N
ATOM	5625	CA	LYS	718	13.688	83.813	46.167	1.00307.78	C
ATOM	5626	CB	LYS	718	13.686	82.356	46.660	1.00307.78	C
ATOM	5627	CG	LYS	718	13.821	82.210	48.174	1.00307.78	C
ATOM	5628	CD	LYS	718	12.577	82.636	48.950	1.00307.78	C
ATOM	5629	CE	LYS	718	12.740	82.518	50.464	1.00307.78	C
ATOM	5630	NZ	LYS	718	13.925	83.288	50.896	1.00307.78	N
ATOM	5631	C	LYS	718	13.696	83.735	44.670	1.00307.78	C
ATOM	5632	O	LYS	718	14.422	82.925	44.098	1.00307.78	O
ATOM	5633	N	ASN	719	12.897	84.568	43.972	1.00166.15	N
ATOM	5634	CA	ASN	719	12.909	84.397	42.552	1.00166.15	C
ATOM	5635	CB	ASN	719	11.676	83.616	42.080	1.00166.15	C
ATOM	5636	CG	ASN	719	11.792	82.237	42.717	1.00166.15	C
ATOM	5637	OD1	ASN	719	12.584	81.402	42.283	1.00166.15	O
ATOM	5638	ND2	ASN	719	11.002	82.000	43.800	1.00166.15	N
ATOM	5639	C	ASN	719	12.921	85.730	41.887	1.00166.15	C
ATOM	5640	O	ASN	719	11.880	86.336	41.646	1.00166.15	O
ATOM	5641	N	THR	720	14.123	86.155	41.476	1.00158.98	N
ATOM	5642	CA	THR	720	14.384	87.443	40.912	1.00158.98	C
ATOM	5643	CB	THR	720	15.858	87.710	40.788	1.00158.98	C
ATOM	5644	OG1	THR	720	16.106	88.988	40.224	1.00158.98	O
ATOM	5645	CG2	THR	720	16.493	86.584	39.950	1.00158.98	C
ATOM	5646	C	THR	720	13.765	87.555	39.560	1.00158.98	C
ATOM	5647	O	THR	720	13.332	86.576	38.952	1.00158.98	O
ATOM	5648	N	THR	721	13.716	88.808	39.071	1.00 73.31	N
ATOM	5649	CA	THR	721	13.135	89.130	37.810	1.00 73.31	C
ATOM	5650	CB	THR	721	13.350	90.565	37.436	1.00 73.31	C
ATOM	5651	OG1	THR	721	12.763	91.422	38.401	1.00 73.31	O
ATOM	5652	CG2	THR	721	12.743	90.811	36.047	1.00 73.31	C
ATOM	5653	C	THR	721	13.823	88.339	36.746	1.00 73.31	C
ATOM	5654	O	THR	721	13.177	87.698	35.919	1.00 73.31	O
ATOM	5655	N	GLY	722	15.165	88.341	36.760	1.00 61.92	N
ATOM	5656	CA	GLY	722	15.900	87.665	35.734	1.00 61.92	C
ATOM	5657	C	GLY	722	15.545	86.223	35.780	1.00 61.92	C
ATOM	5658	O	GLY	722	15.347	85.599	34.739	1.00 61.92	O
ATOM	5659	N	ALA	723	15.421	85.664	36.998	1.00 84.20	N
ATOM	5660	CA	ALA	723	15.155	84.265	37.102	1.00 84.20	C
ATOM	5661	CB	ALA	723	14.983	83.781	38.551	1.00 84.20	C
ATOM	5662	C	ALA	723	13.877	84.016	36.386	1.00 84.20	C
ATOM	5663	O	ALA	723	13.722	83.011	35.699	1.00 84.20	O
ATOM	5664	N	LEU	724	12.919	84.938	36.538	1.00169.19	N
ATOM	5665	CA	LEU	724	11.671	84.774	35.860	1.00169.19	C
ATOM	5666	CB	LEU	724	10.555	85.693	36.366	1.00169.19	C
ATOM	5667	CG	LEU	724	9.934	85.208	37.685	1.00169.19	C
ATOM	5668	CD1	LEU	724	10.919	85.281	38.856	1.00169.19	C
ATOM	5669	CD2	LEU	724	8.617	85.934	37.969	1.00169.19	C
ATOM	5670	C	LEU	724	11.739	84.940	34.370	1.00169.19	C
ATOM	5671	O	LEU	724	11.193	84.115	33.635	1.00169.19	O
ATOM	5672	N	THR	725	12.420	85.993	33.877	1.00142.21	N
ATOM	5673	CA	THR	725	12.406	86.250	32.466	1.00142.21	C
ATOM	5674	CB	THR	725	13.293	87.398	32.095	1.00142.21	C
ATOM	5675	OG1	THR	725	12.916	88.561	32.809	1.00142.21	O
ATOM	5676	CG2	THR	725	13.143	87.649	30.594	1.00142.21	C
ATOM	5677	C	THR	725	12.968	85.049	31.787	1.00142.21	C
ATOM	5678	O	THR	725	12.413	84.529	30.815	1.00142.21	O
ATOM	5679	N	THR	726	14.072	84.541	32.349	1.00171.70	N
ATOM	5680	CA	THR	726	14.720	83.443	31.709	1.00171.70	C
ATOM	5681	CB	THR	726	15.941	82.967	32.428	1.00171.70	C
ATOM	5682	OG1	THR	726	15.630	82.605	33.765	1.00171.70	O
ATOM	5683	CG2	THR	726	16.984	84.086	32.390	1.00171.70	C
ATOM	5684	C	THR	726	13.793	82.293	31.622	1.00171.70	C
ATOM	5685	O	THR	726	13.620	81.703	30.554	1.00171.70	O
ATOM	5686	N	ARG	727	13.117	81.994	32.740	1.00221.86	N
ATOM	5687	CA	ARG	727	12.296	80.825	32.775	1.00221.86	C
ATOM	5688	CB	ARG	727	11.515	80.683	34.091	1.00221.86	C
ATOM	5689	CG	ARG	727	12.398	80.533	35.332	1.00221.86	C
ATOM	5690	CD	ARG	727	12.700	79.084	35.726	1.00221.86	C
ATOM	5691	NE	ARG	727	13.639	78.520	34.716	1.00221.86	N

ATOM	5692	CZ	ARG	727	14.768	77.861	35.109	1.00221.86	C
ATOM	5693	NH1	ARG	727	15.064	77.737	36.436	1.00221.86	N
ATOM	5694	NH2	ARG	727	15.615	77.344	34.170	1.00221.86	N
ATOM	5695	C	ARG	727	11.277	80.900	31.684	1.00221.86	C
ATOM	5696	O	ARG	727	11.069	79.922	30.964	1.00221.86	O
ATOM	5697	N	LEU	728	10.664	82.082	31.486	1.00 99.84	N
ATOM	5698	CA	LEU	728	9.583	82.142	30.548	1.00 99.84	C
ATOM	5699	CB	LEU	728	9.047	83.565	30.328	1.00 99.84	C
ATOM	5700	CG	LEU	728	8.400	84.211	31.561	1.00 99.84	C
ATOM	5701	CD1	LEU	728	7.755	85.550	31.181	1.00 99.84	C
ATOM	5702	CD2	LEU	728	7.423	83.254	32.262	1.00 99.84	C
ATOM	5703	C	LEU	728	10.008	81.694	29.184	1.00 99.84	C
ATOM	5704	O	LEU	728	9.502	80.699	28.667	1.00 99.84	O
ATOM	5705	N	ALA	729	10.996	82.377	28.587	1.00 86.43	N
ATOM	5706	CA	ALA	729	11.272	82.080	27.209	1.00 86.43	C
ATOM	5707	CB	ALA	729	12.272	83.069	26.586	1.00 86.43	C
ATOM	5708	C	ALA	729	11.820	80.707	26.963	1.00 86.43	C
ATOM	5709	O	ALA	729	11.237	79.925	26.210	1.00 86.43	O
ATOM	5710	N	ASN	730	12.921	80.335	27.643	1.00117.16	N
ATOM	5711	CA	ASN	730	13.544	79.113	27.212	1.00117.16	C
ATOM	5712	CB	ASN	730	14.921	78.840	27.853	1.00117.16	C
ATOM	5713	CG	ASN	730	14.761	78.542	29.332	1.00117.16	C
ATOM	5714	OD1	ASN	730	14.367	77.440	29.711	1.00117.16	O
ATOM	5715	ND2	ASN	730	15.113	79.532	30.193	1.00117.16	N
ATOM	5716	C	ASN	730	12.649	77.940	27.463	1.00117.16	C
ATOM	5717	O	ASN	730	12.455	77.102	26.581	1.00117.16	O
ATOM	5718	N	ASP	731	12.021	77.906	28.652	1.00 98.22	N
ATOM	5719	CA	ASP	731	11.266	76.764	29.100	1.00 98.22	C
ATOM	5720	CB	ASP	731	10.659	76.947	30.504	1.00 98.22	C
ATOM	5721	CG	ASP	731	11.728	76.719	31.564	1.00 98.22	C
ATOM	5722	OD1	ASP	731	12.793	76.142	31.220	1.00 98.22	O
ATOM	5723	OD2	ASP	731	11.483	77.101	32.740	1.00 98.22	O
ATOM	5724	C	ASP	731	10.121	76.430	28.206	1.00 98.22	C
ATOM	5725	O	ASP	731	9.877	75.249	27.958	1.00 98.22	O
ATOM	5726	N	ALA	732	9.373	77.432	27.705	1.00 71.81	N
ATOM	5727	CA	ALA	732	8.243	77.057	26.905	1.00 71.81	C
ATOM	5728	CB	ALA	732	7.460	78.267	26.385	1.00 71.81	C
ATOM	5729	C	ALA	732	8.733	76.275	25.722	1.00 71.81	C
ATOM	5730	O	ALA	732	8.195	75.224	25.378	1.00 71.81	O
ATOM	5731	N	ALA	733	9.836	76.718	25.108	1.00 89.47	N
ATOM	5732	CA	ALA	733	10.261	76.027	23.921	1.00 89.47	C
ATOM	5733	CB	ALA	733	11.517	76.660	23.301	1.00 89.47	C
ATOM	5734	C	ALA	733	10.575	74.578	24.183	1.00 89.47	C
ATOM	5735	O	ALA	733	10.076	73.685	23.495	1.00 89.47	O
ATOM	5736	N	GLN	734	11.343	74.304	25.246	1.00108.32	N
ATOM	5737	CA	GLN	734	11.860	72.992	25.508	1.00108.32	C
ATOM	5738	CB	GLN	734	12.604	72.991	26.854	1.00108.32	C
ATOM	5739	CG	GLN	734	13.454	74.250	27.082	1.00108.32	C
ATOM	5740	CD	GLN	734	14.548	74.339	26.032	1.00108.32	C
ATOM	5741	OE1	GLN	734	15.437	73.491	25.970	1.00108.32	O
ATOM	5742	NE2	GLN	734	14.491	75.401	25.185	1.00108.32	N
ATOM	5743	C	GLN	734	10.712	72.027	25.644	1.00108.32	C
ATOM	5744	O	GLN	734	10.704	70.949	25.045	1.00108.32	O
ATOM	5745	N	VAL	735	9.674	72.425	26.400	1.00161.40	N
ATOM	5746	CA	VAL	735	8.590	71.524	26.674	1.00161.40	C
ATOM	5747	CB	VAL	735	7.584	72.088	27.643	1.00161.40	C
ATOM	5748	CG1	VAL	735	7.181	73.514	27.255	1.00161.40	C
ATOM	5749	CG2	VAL	735	6.392	71.134	27.657	1.00161.40	C
ATOM	5750	C	VAL	735	7.921	71.078	25.410	1.00161.40	C
ATOM	5751	O	VAL	735	7.566	69.902	25.275	1.00161.40	O
ATOM	5752	N	LYS	736	7.802	71.997	24.432	1.00113.70	N
ATOM	5753	CA	LYS	736	7.198	71.702	23.162	1.00113.70	C
ATOM	5754	CB	LYS	736	7.500	72.829	22.158	1.00113.70	C
ATOM	5755	CG	LYS	736	7.131	72.532	20.705	1.00113.70	C
ATOM	5756	CD	LYS	736	7.295	73.746	19.785	1.00113.70	C
ATOM	5757	CE	LYS	736	7.173	73.412	18.297	1.00113.70	C
ATOM	5758	NZ	LYS	736	8.409	72.748	17.826	1.00113.70	N
ATOM	5759	C	LYS	736	7.895	70.474	22.656	1.00113.70	C
ATOM	5760	O	LYS	736	7.296	69.578	22.058	1.00113.70	O
ATOM	5761	N	GLY	737	9.199	70.391	22.961	1.00 67.09	N
ATOM	5762	CA	GLY	737	10.003	69.282	22.530	1.00 67.09	C
ATOM	5763	C	GLY	737	9.525	67.977	23.108	1.00 67.09	C
ATOM	5764	O	GLY	737	9.471	66.969	22.402	1.00 67.09	O
ATOM	5765	N	ALA	738	9.145	67.952	24.401	1.00 96.68	N

ATOM	5766	CA	ALA	738	8.799	66.700	25.029	1.00	96.68	C
ATOM	5767	CB	ALA	738	8.428	66.872	26.513	1.00	96.68	C
ATOM	5768	C	ALA	738	7.628	66.028	24.333	1.00	96.68	C
ATOM	5769	O	ALA	738	7.576	64.800	24.241	1.00	96.68	O
ATOM	5770	N	ILE	739	6.613	66.802	23.894	1.00	200.24	N
ATOM	5771	CA	ILE	739	5.434	66.259	23.240	1.00	200.24	C
ATOM	5772	CB	ILE	739	4.328	67.285	23.217	1.00	200.24	C
ATOM	5773	CG1	ILE	739	2.958	66.711	22.803	1.00	200.24	C
ATOM	5774	CG2	ILE	739	4.801	68.445	22.328	1.00	200.24	C
ATOM	5775	CD1	ILE	739	2.821	66.379	21.317	1.00	200.24	C
ATOM	5776	C	ILE	739	5.656	65.740	21.826	1.00	200.24	C
ATOM	5777	O	ILE	739	5.240	64.631	21.475	1.00	200.24	O
ATOM	5778	N	GLY	740	6.345	66.515	20.965	1.00	79.76	N
ATOM	5779	CA	GLY	740	6.508	66.121	19.585	1.00	79.76	C
ATOM	5780	C	GLY	740	7.192	64.789	19.554	1.00	79.76	C
ATOM	5781	O	GLY	740	6.996	63.995	18.629	1.00	79.76	O
ATOM	5782	N	SER	741	8.046	64.537	20.565	1.00	161.00	N
ATOM	5783	CA	SER	741	8.808	63.317	20.639	1.00	161.00	C
ATOM	5784	CB	SER	741	9.717	63.223	21.878	1.00	161.00	C
ATOM	5785	OG	SER	741	10.833	64.089	21.748	1.00	161.00	O
ATOM	5786	C	SER	741	7.895	62.129	20.691	1.00	161.00	C
ATOM	5787	O	SER	741	8.142	61.113	20.032	1.00	161.00	O
ATOM	5788	N	ARG	742	6.784	62.249	21.442	1.00	234.26	N
ATOM	5789	CA	ARG	742	5.920	61.120	21.626	1.00	234.26	C
ATOM	5790	CB	ARG	742	4.644	61.469	22.423	1.00	234.26	C
ATOM	5791	CG	ARG	742	4.838	62.438	23.602	1.00	234.26	C
ATOM	5792	CD	ARG	742	6.121	62.284	24.429	1.00	234.26	C
ATOM	5793	NE	ARG	742	5.911	61.220	25.449	1.00	234.26	N
ATOM	5794	CZ	ARG	742	6.600	61.267	26.631	1.00	234.26	C
ATOM	5795	NH1	ARG	742	7.476	62.279	26.888	1.00	234.26	N
ATOM	5796	NH2	ARG	742	6.407	60.296	27.568	1.00	234.26	N
ATOM	5797	C	ARG	742	5.461	60.701	20.235	1.00	234.26	C
ATOM	5798	O	ARG	742	5.285	59.522	19.918	1.00	234.26	O
ATOM	5799	N	LEU	743	5.280	61.701	19.353	1.00	213.06	N
ATOM	5800	CA	LEU	743	4.766	61.583	18.007	1.00	213.06	C
ATOM	5801	CB	LEU	743	4.682	63.008	17.421	1.00	213.06	C
ATOM	5802	CG	LEU	743	3.892	63.211	16.120	1.00	213.06	C
ATOM	5803	CD1	LEU	743	4.472	62.416	14.947	1.00	213.06	C
ATOM	5804	CD2	LEU	743	2.393	62.993	16.347	1.00	213.06	C
ATOM	5805	C	LEU	743	5.630	60.740	17.081	1.00	213.06	C
ATOM	5806	O	LEU	743	5.167	59.790	16.444	1.00	213.06	O
ATOM	5807	N	ALA	744	6.932	61.050	17.012	1.00	114.89	N
ATOM	5808	CA	ALA	744	7.877	60.422	16.119	1.00	114.89	C
ATOM	5809	CB	ALA	744	9.283	61.038	16.220	1.00	114.89	C
ATOM	5810	C	ALA	744	7.987	58.981	16.472	1.00	114.89	C
ATOM	5811	O	ALA	744	8.513	58.181	15.698	1.00	114.89	O
ATOM	5812	N	VAL	745	7.646	58.645	17.725	1.00	116.04	N
ATOM	5813	CA	VAL	745	7.759	57.280	18.130	1.00	116.04	C
ATOM	5814	CB	VAL	745	7.510	57.077	19.595	1.00	116.04	C
ATOM	5815	CG1	VAL	745	7.514	55.565	19.889	1.00	116.04	C
ATOM	5816	CG2	VAL	745	8.579	57.860	20.378	1.00	116.04	C
ATOM	5817	C	VAL	745	6.803	56.408	17.384	1.00	116.04	C
ATOM	5818	O	VAL	745	7.202	55.474	16.685	1.00	116.04	O
ATOM	5819	N	ILE	746	5.505	56.747	17.446	1.00	122.99	N
ATOM	5820	CA	ILE	746	4.547	55.851	16.869	1.00	122.99	C
ATOM	5821	CB	ILE	746	3.120	56.275	17.081	1.00	122.99	C
ATOM	5822	CG1	ILE	746	2.186	55.069	16.881	1.00	122.99	C
ATOM	5823	CG2	ILE	746	2.816	57.465	16.157	1.00	122.99	C
ATOM	5824	CD1	ILE	746	0.768	55.299	17.403	1.00	122.99	C
ATOM	5825	C	ILE	746	4.824	55.728	15.400	1.00	122.99	C
ATOM	5826	O	ILE	746	4.753	54.640	14.826	1.00	122.99	O
ATOM	5827	N	THR	747	5.202	56.854	14.767	1.00	174.52	N
ATOM	5828	CA	THR	747	5.405	56.850	13.345	1.00	174.52	C
ATOM	5829	CB	THR	747	5.747	58.210	12.802	1.00	174.52	C
ATOM	5830	OG1	THR	747	5.933	58.136	11.395	1.00	174.52	O
ATOM	5831	CG2	THR	747	7.017	58.741	13.477	1.00	174.52	C
ATOM	5832	C	THR	747	6.449	55.893	12.862	1.00	174.52	C
ATOM	5833	O	THR	747	6.118	54.979	12.109	1.00	174.52	O
ATOM	5834	N	GLN	748	7.708	55.999	13.336	1.00	111.07	N
ATOM	5835	CA	GLN	748	8.757	55.199	12.755	1.00	111.07	C
ATOM	5836	CB	GLN	748	10.123	55.331	13.451	1.00	111.07	C
ATOM	5837	CG	GLN	748	10.120	54.754	14.870	1.00	111.07	C
ATOM	5838	CD	GLN	748	11.560	54.523	15.311	1.00	111.07	C
ATOM	5839	OE1	GLN	748	11.870	53.528	15.964	1.00	111.07	O

ATOM	5840	NE2	GLN	748	12.469	55.466	14.949	1.00111.07	N
ATOM	5841	C	GLN	748	8.380	53.764	12.919	1.00111.07	C
ATOM	5842	O	GLN	748	8.572	52.945	12.019	1.00111.07	O
ATOM	5843	N	ASN	749	7.741	53.465	14.061	1.00102.08	N
ATOM	5844	CA	ASN	749	7.440	52.108	14.397	1.00102.08	C
ATOM	5845	CB	ASN	749	6.570	52.033	15.664	1.00102.08	C
ATOM	5846	CG	ASN	749	6.342	50.592	16.112	1.00102.08	C
ATOM	5847	OD1	ASN	749	6.354	49.642	15.330	1.00102.08	O
ATOM	5848	ND2	ASN	749	6.102	50.429	17.440	1.00102.08	N
ATOM	5849	C	ASN	749	6.673	51.439	13.304	1.00102.08	C
ATOM	5850	O	ASN	749	7.130	50.454	12.724	1.00102.08	O
ATOM	5851	N	ILE	750	5.503	51.978	12.946	1.00 92.07	N
ATOM	5852	CA	ILE	750	4.719	51.251	11.991	1.00 92.07	C
ATOM	5853	CB	ILE	750	3.354	51.825	11.746	1.00 92.07	C
ATOM	5854	CG1	ILE	750	2.480	51.617	12.992	1.00 92.07	C
ATOM	5855	CG2	ILE	750	2.761	51.194	10.473	1.00 92.07	C
ATOM	5856	CD1	ILE	750	1.113	52.282	12.878	1.00 92.07	C
ATOM	5857	C	ILE	750	5.429	51.135	10.683	1.00 92.07	C
ATOM	5858	O	ILE	750	5.414	50.063	10.078	1.00 92.07	O
ATOM	5859	N	ALA	751	6.099	52.215	10.231	1.00101.30	N
ATOM	5860	CA	ALA	751	6.661	52.194	8.907	1.00101.30	C
ATOM	5861	CB	ALA	751	7.667	53.320	8.693	1.00101.30	C
ATOM	5862	C	ALA	751	7.573	51.041	8.739	1.00101.30	C
ATOM	5863	O	ALA	751	7.280	50.088	8.017	1.00101.30	O
ATOM	5864	N	ASN	752	8.656	51.062	9.521	1.00110.69	N
ATOM	5865	CA	ASN	752	9.676	50.091	9.322	1.00110.69	C
ATOM	5866	CB	ASN	752	10.823	50.286	10.335	1.00110.69	C
ATOM	5867	CG	ASN	752	11.847	49.164	10.201	1.00110.69	C
ATOM	5868	OD1	ASN	752	12.895	49.330	9.580	1.00110.69	O
ATOM	5869	ND2	ASN	752	11.556	47.989	10.823	1.00110.69	N
ATOM	5870	C	ASN	752	9.120	48.732	9.541	1.00110.69	C
ATOM	5871	O	ASN	752	9.121	47.898	8.635	1.00110.69	O
ATOM	5872	N	LEU	753	8.627	48.471	10.765	1.00105.71	N
ATOM	5873	CA	LEU	753	8.240	47.117	11.000	1.00105.71	C
ATOM	5874	CB	LEU	753	7.936	46.797	12.474	1.00105.71	C
ATOM	5875	CG	LEU	753	7.521	45.326	12.679	1.00105.71	C
ATOM	5876	CD1	LEU	753	8.662	44.367	12.297	1.00105.71	C
ATOM	5877	CD2	LEU	753	6.987	45.083	14.098	1.00105.71	C
ATOM	5878	C	LEU	753	7.023	46.732	10.241	1.00105.71	C
ATOM	5879	O	LEU	753	7.110	45.930	9.317	1.00105.71	O
ATOM	5880	N	GLY	754	5.896	47.418	10.513	1.00 52.98	N
ATOM	5881	CA	GLY	754	4.625	46.930	10.055	1.00 52.98	C
ATOM	5882	C	GLY	754	4.624	46.756	8.575	1.00 52.98	C
ATOM	5883	O	GLY	754	4.235	45.704	8.067	1.00 52.98	O
ATOM	5884	N	THR	755	5.085	47.770	7.834	1.00 52.52	N
ATOM	5885	CA	THR	755	5.069	47.615	6.410	1.00 52.52	C
ATOM	5886	CB	THR	755	5.394	48.867	5.651	1.00 52.52	C
ATOM	5887	OG1	THR	755	4.486	49.901	6.003	1.00 52.52	O
ATOM	5888	CG2	THR	755	5.274	48.564	4.146	1.00 52.52	C
ATOM	5889	C	THR	755	6.073	46.582	6.010	1.00 52.52	C
ATOM	5890	O	THR	755	5.831	45.780	5.108	1.00 52.52	O
ATOM	5891	N	GLY	756	7.241	46.577	6.675	1.00 41.15	N
ATOM	5892	CA	GLY	756	8.288	45.682	6.276	1.00 41.15	C
ATOM	5893	C	GLY	756	7.837	44.273	6.454	1.00 41.15	C
ATOM	5894	O	GLY	756	8.135	43.413	5.630	1.00 41.15	O
ATOM	5895	N	ILE	757	7.125	43.991	7.557	1.00115.63	N
ATOM	5896	CA	ILE	757	6.705	42.651	7.842	1.00115.63	C
ATOM	5897	CB	ILE	757	6.123	42.471	9.211	1.00115.63	C
ATOM	5898	CG1	ILE	757	4.857	43.315	9.411	1.00115.63	C
ATOM	5899	CG2	ILE	757	7.240	42.775	10.214	1.00115.63	C
ATOM	5900	CD1	ILE	757	4.118	42.977	10.705	1.00115.63	C
ATOM	5901	C	ILE	757	5.711	42.167	6.839	1.00115.63	C
ATOM	5902	O	ILE	757	5.770	41.015	6.418	1.00115.63	O
ATOM	5903	N	ILE	758	4.759	43.020	6.426	1.00110.13	N
ATOM	5904	CA	ILE	758	3.771	42.535	5.507	1.00110.13	C
ATOM	5905	CB	ILE	758	2.788	43.594	5.111	1.00110.13	C
ATOM	5906	CG1	ILE	758	2.058	44.123	6.356	1.00110.13	C
ATOM	5907	CG2	ILE	758	1.848	42.996	4.051	1.00110.13	C
ATOM	5908	CD1	ILE	758	1.330	43.034	7.142	1.00110.13	C
ATOM	5909	C	ILE	758	4.489	42.101	4.270	1.00110.13	C
ATOM	5910	O	ILE	758	4.319	40.982	3.788	1.00110.13	O
ATOM	5911	N	ILE	759	5.377	42.967	3.766	1.00156.57	N
ATOM	5912	CA	ILE	759	6.172	42.627	2.627	1.00156.57	C
ATOM	5913	CB	ILE	759	6.999	43.735	2.039	1.00156.57	C



ATOM	5914	CG1	ILE	759	7.906	44.390	3.083	1.00156.57	C
ATOM	5915	CG2	ILE	759	6.065	44.671	1.268	1.00156.57	C
ATOM	5916	CD1	ILE	759	8.897	45.377	2.478	1.00156.57	C
ATOM	5917	C	ILE	759	7.050	41.490	3.011	1.00156.57	C
ATOM	5918	O	ILE	759	7.608	40.814	2.151	1.00156.57	O
ATOM	5919	N	SER	760	7.308	41.320	4.317	1.00117.28	N
ATOM	5920	CA	SER	760	8.142	40.222	4.688	1.00117.28	C
ATOM	5921	CB	SER	760	8.628	40.218	6.152	1.00117.28	C
ATOM	5922	OG	SER	760	7.745	39.497	6.995	1.00117.28	O
ATOM	5923	C	SER	760	7.390	38.954	4.419	1.00117.28	C
ATOM	5924	O	SER	760	7.996	37.906	4.200	1.00117.28	O
ATOM	5925	N	PHE	761	6.042	39.015	4.433	1.00 95.24	N
ATOM	5926	CA	PHE	761	5.266	37.843	4.137	1.00 95.24	C
ATOM	5927	CB	PHE	761	3.743	38.086	4.210	1.00 95.24	C
ATOM	5928	CG	PHE	761	3.348	38.168	5.646	1.00 95.24	C
ATOM	5929	CD1	PHE	761	3.626	39.288	6.394	1.00 95.24	C
ATOM	5930	CD2	PHE	761	2.679	37.122	6.241	1.00 95.24	C
ATOM	5931	CE1	PHE	761	3.256	39.356	7.716	1.00 95.24	C
ATOM	5932	CE2	PHE	761	2.305	37.184	7.563	1.00 95.24	C
ATOM	5933	CZ	PHE	761	2.596	38.303	8.305	1.00 95.24	C
ATOM	5934	C	PHE	761	5.590	37.442	2.735	1.00 95.24	C
ATOM	5935	O	PHE	761	5.963	36.300	2.470	1.00 95.24	O
ATOM	5936	N	ILE	762	5.533	38.412	1.807	1.00 80.29	N
ATOM	5937	CA	ILE	762	5.778	38.114	0.428	1.00 80.29	C
ATOM	5938	CB	ILE	762	5.632	39.271	-0.521	1.00 80.29	C
ATOM	5939	CG1	ILE	762	5.496	38.727	-1.947	1.00 80.29	C
ATOM	5940	CG2	ILE	762	6.834	40.213	-0.390	1.00 80.29	C
ATOM	5941	CD1	ILE	762	5.021	39.782	-2.940	1.00 80.29	C
ATOM	5942	C	ILE	762	7.168	37.590	0.329	1.00 80.29	C
ATOM	5943	O	ILE	762	7.482	36.821	-0.579	1.00 80.29	O
ATOM	5944	N	TYR	763	8.069	38.044	1.222	1.00147.76	N
ATOM	5945	CA	TYR	763	9.388	37.489	1.125	1.00147.76	C
ATOM	5946	CB	TYR	763	10.452	37.895	2.144	1.00147.76	C
ATOM	5947	CG	TYR	763	10.650	39.355	2.138	1.00147.76	C
ATOM	5948	CD1	TYR	763	10.697	40.052	0.959	1.00147.76	C
ATOM	5949	CD2	TYR	763	10.741	40.017	3.335	1.00147.76	C
ATOM	5950	CE1	TYR	763	10.868	41.410	0.988	1.00147.76	C
ATOM	5951	CE2	TYR	763	10.912	41.373	3.369	1.00147.76	C
ATOM	5952	CZ	TYR	763	10.977	42.062	2.189	1.00147.76	C
ATOM	5953	OH	TYR	763	11.152	43.453	2.218	1.00147.76	O
ATOM	5954	C	TYR	763	9.268	36.020	1.337	1.00147.76	C
ATOM	5955	O	TYR	763	8.398	35.564	2.079	1.00147.76	O
ATOM	5956	N	GLY	764	10.145	35.243	0.666	1.00 73.27	N
ATOM	5957	CA	GLY	764	10.057	33.817	0.752	1.00 73.27	C
ATOM	5958	C	GLY	764	11.054	33.241	1.723	1.00 73.27	C
ATOM	5959	O	GLY	764	11.832	32.351	1.384	1.00 73.27	O
ATOM	5960	N	TRP	765	11.091	33.776	2.954	1.00139.25	N
ATOM	5961	CA	TRP	765	11.721	33.097	4.055	1.00139.25	C
ATOM	5962	CB	TRP	765	11.105	31.697	4.215	1.00139.25	C
ATOM	5963	CG	TRP	765	9.600	31.702	4.327	1.00139.25	C
ATOM	5964	CD2	TRP	765	8.847	31.123	5.403	1.00139.25	C
ATOM	5965	CD1	TRP	765	8.686	32.177	3.430	1.00139.25	C
ATOM	5966	NE1	TRP	765	7.412	31.940	3.884	1.00139.25	N
ATOM	5967	CE2	TRP	765	7.496	31.288	5.095	1.00139.25	C
ATOM	5968	CE3	TRP	765	9.247	30.494	6.546	1.00139.25	C
ATOM	5969	CZ2	TRP	765	6.521	30.826	5.931	1.00139.25	C
ATOM	5970	CZ3	TRP	765	8.261	30.040	7.392	1.00139.25	C
ATOM	5971	CH2	TRP	765	6.925	30.203	7.091	1.00139.25	C
ATOM	5972	C	TRP	765	13.203	32.867	3.883	1.00139.25	C
ATOM	5973	O	TRP	765	13.760	32.067	4.632	1.00139.25	O
ATOM	5974	N	GLN	766	13.875	33.381	2.835	1.00154.51	N
ATOM	5975	CA	GLN	766	15.307	33.196	2.804	1.00154.51	C
ATOM	5976	CB	GLN	766	15.803	32.785	1.414	1.00154.51	C
ATOM	5977	CG	GLN	766	15.096	31.513	0.950	1.00154.51	C
ATOM	5978	CD	GLN	766	14.925	30.616	2.171	1.00154.51	C
ATOM	5979	OE1	GLN	766	15.857	30.411	2.948	1.00154.51	O
ATOM	5980	NE2	GLN	766	13.688	30.082	2.362	1.00154.51	N
ATOM	5981	C	GLN	766	16.103	34.386	3.275	1.00154.51	C
ATOM	5982	O	GLN	766	17.220	34.256	3.775	1.00154.51	O
ATOM	5983	N	LEU	767	15.649	35.581	2.858	1.00187.72	N
ATOM	5984	CA	LEU	767	16.221	36.853	3.186	1.00187.72	C
ATOM	5985	CB	LEU	767	16.214	37.835	2.010	1.00187.72	C
ATOM	5986	CG	LEU	767	17.267	37.456	0.952	1.00187.72	C
ATOM	5987	CD1	LEU	767	18.685	37.610	1.525	1.00187.72	C

ATOM	5988	CD2	LEU	767	17.020	36.051	0.380	1.00187.72	C
ATOM	5989	C	LEU	767	15.612	37.494	4.373	1.00187.72	C
ATOM	5990	O	LEU	767	16.319	38.164	5.111	1.00187.72	O
ATOM	5991	N	THR	768	14.290	37.325	4.581	1.00 84.83	N
ATOM	5992	CA	THR	768	13.601	38.014	5.640	1.00 84.83	C
ATOM	5993	CB	THR	768	12.228	37.471	5.876	1.00 84.83	C
ATOM	5994	OG1	THR	768	11.487	37.471	4.673	1.00 84.83	O
ATOM	5995	CG2	THR	768	11.528	38.362	6.914	1.00 84.83	C
ATOM	5996	C	THR	768	14.339	37.690	6.880	1.00 84.83	C
ATOM	5997	O	THR	768	14.764	38.574	7.624	1.00 84.83	O
ATOM	5998	N	LEU	769	14.551	36.386	7.087	1.00134.99	N
ATOM	5999	CA	LEU	769	15.321	35.956	8.203	1.00134.99	C
ATOM	6000	CB	LEU	769	15.275	34.442	8.463	1.00134.99	C
ATOM	6001	CG	LEU	769	16.080	34.004	9.707	1.00134.99	C
ATOM	6002	CD1	LEU	769	17.601	33.984	9.481	1.00134.99	C
ATOM	6003	CD2	LEU	769	15.697	34.871	10.916	1.00134.99	C
ATOM	6004	C	LEU	769	16.739	36.342	7.957	1.00134.99	C
ATOM	6005	O	LEU	769	17.465	36.693	8.881	1.00134.99	O
ATOM	6006	N	LEU	770	17.169	36.311	6.687	1.00159.34	N
ATOM	6007	CA	LEU	770	18.546	36.524	6.364	1.00159.34	C
ATOM	6008	CB	LEU	770	18.777	36.509	4.840	1.00159.34	C
ATOM	6009	CG	LEU	770	20.244	36.322	4.410	1.00159.34	C
ATOM	6010	CD1	LEU	770	21.160	37.448	4.899	1.00159.34	C
ATOM	6011	CD2	LEU	770	20.747	34.932	4.811	1.00159.34	C
ATOM	6012	C	LEU	770	18.985	37.861	6.918	1.00159.34	C
ATOM	6013	O	LEU	770	20.075	37.959	7.472	1.00159.34	O
ATOM	6014	N	LEU	771	18.176	38.922	6.714	1.00162.12	N
ATOM	6015	CA	LEU	771	18.321	40.301	7.105	1.00162.12	C
ATOM	6016	CB	LEU	771	17.428	41.187	6.205	1.00162.12	C
ATOM	6017	CG	LEU	771	17.422	42.717	6.425	1.00162.12	C
ATOM	6018	CD1	LEU	771	16.630	43.383	5.291	1.00162.12	C
ATOM	6019	CD2	LEU	771	16.846	43.152	7.784	1.00162.12	C
ATOM	6020	C	LEU	771	17.989	40.571	8.539	1.00162.12	C
ATOM	6021	O	LEU	771	18.716	41.279	9.220	1.00162.12	O
ATOM	6022	N	LEU	772	16.892	40.005	9.051	1.00158.57	N
ATOM	6023	CA	LEU	772	16.406	40.315	10.365	1.00158.57	C
ATOM	6024	CB	LEU	772	15.217	39.394	10.704	1.00158.57	C
ATOM	6025	CG	LEU	772	14.662	39.501	12.132	1.00158.57	C
ATOM	6026	CD1	LEU	772	15.578	38.838	13.173	1.00158.57	C
ATOM	6027	CD2	LEU	772	14.333	40.959	12.473	1.00158.57	C
ATOM	6028	C	LEU	772	17.515	40.028	11.312	1.00158.57	C
ATOM	6029	O	LEU	772	17.639	40.658	12.355	1.00158.57	O
ATOM	6030	N	ALA	773	18.336	39.021	11.005	1.00 58.38	N
ATOM	6031	CA	ALA	773	19.438	38.790	11.883	1.00 58.38	C
ATOM	6032	CB	ALA	773	20.242	37.539	11.492	1.00 58.38	C
ATOM	6033	C	ALA	773	20.378	39.965	11.826	1.00 58.38	C
ATOM	6034	O	ALA	773	20.783	40.490	12.862	1.00 58.38	O
ATOM	6035	N	ILE	774	20.723	40.430	10.605	1.00143.54	N
ATOM	6036	CA	ILE	774	21.684	41.489	10.435	1.00143.54	C
ATOM	6037	CB	ILE	774	22.147	41.753	9.022	1.00143.54	C
ATOM	6038	CG1	ILE	774	21.014	42.206	8.089	1.00143.54	C
ATOM	6039	CG2	ILE	774	22.927	40.527	8.547	1.00143.54	C
ATOM	6040	CD1	ILE	774	21.505	42.692	6.728	1.00143.54	C
ATOM	6041	C	ILE	774	21.236	42.812	10.976	1.00143.54	C
ATOM	6042	O	ILE	774	22.006	43.457	11.683	1.00143.54	O
ATOM	6043	N	VAL	775	20.004	43.277	10.686	1.00 75.03	N
ATOM	6044	CA	VAL	775	19.684	44.599	11.153	1.00 75.03	C
ATOM	6045	CB	VAL	775	18.366	45.129	10.666	1.00 75.03	C
ATOM	6046	CG1	VAL	775	18.075	46.462	11.382	1.00 75.03	C
ATOM	6047	CG2	VAL	775	18.451	45.265	9.135	1.00 75.03	C
ATOM	6048	C	VAL	775	19.733	44.629	12.646	1.00 75.03	C
ATOM	6049	O	VAL	775	20.355	45.524	13.202	1.00 75.03	O
ATOM	6050	N	PRO	776	19.146	43.715	13.351	1.00101.18	N
ATOM	6051	CA	PRO	776	19.320	43.800	14.769	1.00101.18	C
ATOM	6052	CD	PRO	776	17.777	43.354	13.042	1.00101.18	C
ATOM	6053	CB	PRO	776	18.345	42.786	15.353	1.00101.18	C
ATOM	6054	CG	PRO	776	17.156	42.889	14.376	1.00101.18	C
ATOM	6055	C	PRO	776	20.743	43.737	15.235	1.00101.18	C
ATOM	6056	O	PRO	776	21.064	44.458	16.174	1.00101.18	O
ATOM	6057	N	ILE	777	21.620	42.925	14.618	1.00118.89	N
ATOM	6058	CA	ILE	777	22.981	42.882	15.082	1.00118.89	C
ATOM	6059	CB	ILE	777	23.780	41.767	14.477	1.00118.89	C
ATOM	6060	CG1	ILE	777	23.879	41.924	12.958	1.00118.89	C
ATOM	6061	CG2	ILE	777	23.146	40.442	14.911	1.00118.89	C

ATOM	6062	CD1	ILE	777	24.801	40.898	12.316	1.00118.89	C
ATOM	6063	C	ILE	777	23.664	44.178	14.784	1.00118.89	C
ATOM	6064	O	ILE	777	24.384	44.720	15.619	1.00118.89	O
ATOM	6065	N	ILE	778	23.468	44.701	13.563	1.00149.83	N
ATOM	6066	CA	ILE	778	24.073	45.932	13.160	1.00149.83	C
ATOM	6067	CB	ILE	778	23.831	46.190	11.700	1.00149.83	C
ATOM	6068	CG1	ILE	778	24.509	47.481	11.264	1.00149.83	C
ATOM	6069	CG2	ILE	778	22.326	46.168	11.411	1.00149.83	C
ATOM	6070	CD1	ILE	778	24.552	47.636	9.745	1.00149.83	C
ATOM	6071	C	ILE	778	23.516	47.055	13.990	1.00149.83	C
ATOM	6072	O	ILE	778	24.257	47.917	14.458	1.00149.83	O
ATOM	6073	N	ALA	779	22.187	47.077	14.201	1.00 34.95	N
ATOM	6074	CA	ALA	779	21.556	48.114	14.972	1.00 34.95	C
ATOM	6075	CB	ALA	779	20.029	47.956	15.053	1.00 34.95	C
ATOM	6076	C	ALA	779	22.092	48.014	16.361	1.00 34.95	C
ATOM	6077	O	ALA	779	22.443	49.015	16.986	1.00 34.95	O
ATOM	6078	N	ILE	780	22.216	46.774	16.862	1.00 53.42	N
ATOM	6079	CA	ILE	780	22.732	46.569	18.178	1.00 53.42	C
ATOM	6080	CB	ILE	780	22.803	45.132	18.612	1.00 53.42	C
ATOM	6081	CG1	ILE	780	21.395	44.576	18.885	1.00 53.42	C
ATOM	6082	CG2	ILE	780	23.740	45.046	19.828	1.00 53.42	C
ATOM	6083	CD1	ILE	780	21.363	43.058	19.054	1.00 53.42	C
ATOM	6084	C	ILE	780	24.107	47.140	18.207	1.00 53.42	C
ATOM	6085	O	ILE	780	24.564	47.602	19.248	1.00 53.42	O
ATOM	6086	N	ALA	781	24.829	47.089	17.074	1.00 48.84	N
ATOM	6087	CA	ALA	781	26.156	47.625	17.054	1.00 48.84	C
ATOM	6088	CB	ALA	781	26.822	47.504	15.674	1.00 48.84	C
ATOM	6089	C	ALA	781	26.077	49.076	17.392	1.00 48.84	C
ATOM	6090	O	ALA	781	26.841	49.543	18.233	1.00 48.84	O
ATOM	6091	N	GLY	782	25.100	49.807	16.813	1.00 46.36	N
ATOM	6092	CA	GLY	782	25.016	51.226	17.037	1.00 46.36	C
ATOM	6093	C	GLY	782	24.941	51.461	18.516	1.00 46.36	C
ATOM	6094	O	GLY	782	25.647	52.322	19.042	1.00 46.36	O
ATOM	6095	N	VAL	783	24.100	50.694	19.234	1.00118.47	N
ATOM	6096	CA	VAL	783	24.028	50.889	20.655	1.00118.47	C
ATOM	6097	CB	VAL	783	22.871	50.190	21.323	1.00118.47	C
ATOM	6098	CG1	VAL	783	23.077	48.667	21.284	1.00118.47	C
ATOM	6099	CG2	VAL	783	22.748	50.744	22.753	1.00118.47	C
ATOM	6100	C	VAL	783	25.301	50.431	21.347	1.00118.47	C
ATOM	6101	O	VAL	783	25.850	51.158	22.170	1.00118.47	O
ATOM	6102	N	VAL	784	25.835	49.230	21.022	1.00105.76	N
ATOM	6103	CA	VAL	784	26.977	48.679	21.724	1.00105.76	C
ATOM	6104	CB	VAL	784	27.356	47.304	21.252	1.00105.76	C
ATOM	6105	CG1	VAL	784	27.705	47.376	19.757	1.00105.76	C
ATOM	6106	CG2	VAL	784	28.512	46.790	22.129	1.00105.76	C
ATOM	6107	C	VAL	784	28.179	49.554	21.555	1.00105.76	C
ATOM	6108	O	VAL	784	28.953	49.743	22.493	1.00105.76	O
ATOM	6109	N	GLU	785	28.378	50.102	20.344	1.00 70.54	N
ATOM	6110	CA	GLU	785	29.490	50.968	20.084	1.00 70.54	C
ATOM	6111	CB	GLU	785	29.387	51.570	18.679	1.00 70.54	C
ATOM	6112	CG	GLU	785	30.316	52.755	18.436	1.00 70.54	C
ATOM	6113	CD	GLU	785	29.755	53.499	17.236	1.00 70.54	C
ATOM	6114	OE1	GLU	785	29.630	52.867	16.153	1.00 70.54	O
ATOM	6115	OE2	GLU	785	29.425	54.705	17.393	1.00 70.54	O
ATOM	6116	C	GLU	785	29.351	52.107	21.027	1.00 70.54	C
ATOM	6117	O	GLU	785	30.299	52.508	21.699	1.00 70.54	O
ATOM	6118	N	MET	786	28.122	52.629	21.127	1.00 91.21	N
ATOM	6119	CA	MET	786	27.868	53.739	21.985	1.00 91.21	C
ATOM	6120	CB	MET	786	26.379	54.131	22.011	1.00 91.21	C
ATOM	6121	CG	MET	786	25.960	54.864	23.290	1.00 91.21	C
ATOM	6122	SD	MET	786	25.470	53.759	24.656	1.00 91.21	S
ATOM	6123	CE	MET	786	25.962	54.882	25.993	1.00 91.21	C
ATOM	6124	C	MET	786	28.228	53.359	23.386	1.00 91.21	C
ATOM	6125	O	MET	786	28.877	54.134	24.085	1.00 91.21	O
ATOM	6126	N	LYS	787	27.835	52.151	23.832	1.00102.25	N
ATOM	6127	CA	LYS	787	28.032	51.757	25.202	1.00102.25	C
ATOM	6128	CB	LYS	787	27.612	50.297	25.470	1.00102.25	C
ATOM	6129	CG	LYS	787	27.959	49.843	26.894	1.00102.25	C
ATOM	6130	CD	LYS	787	27.691	48.366	27.202	1.00102.25	C
ATOM	6131	CE	LYS	787	28.984	47.542	27.280	1.00102.25	C
ATOM	6132	NZ	LYS	787	28.693	46.130	27.611	1.00102.25	N
ATOM	6133	C	LYS	787	29.490	51.757	25.590	1.00102.25	C
ATOM	6134	O	LYS	787	29.874	52.421	26.551	1.00102.25	O
ATOM	6135	N	MET	788	30.352	51.024	24.855	1.00134.16	N

ATOM	6136	CA	MET	788	31.730	50.902	25.267	1.00134.16	C
ATOM	6137	CB	MET	788	32.547	49.899	24.425	1.00134.16	C
ATOM	6138	CG	MET	788	33.994	49.732	24.909	1.00134.16	C
ATOM	6139	SD	MET	788	34.955	48.431	24.070	1.00134.16	S
ATOM	6140	CE	MET	788	34.473	47.086	25.192	1.00134.16	C
ATOM	6141	C	MET	788	32.391	52.233	25.177	1.00134.16	C
ATOM	6142	O	MET	788	33.218	52.592	26.015	1.00134.16	O
ATOM	6143	N	LEU	789	32.041	53.000	24.132	1.00195.86	N
ATOM	6144	CA	LEU	789	32.632	54.284	23.922	1.00195.86	C
ATOM	6145	CB	LEU	789	32.268	54.893	22.570	1.00195.86	C
ATOM	6146	CG	LEU	789	32.880	54.041	21.448	1.00195.86	C
ATOM	6147	CD1	LEU	789	32.812	54.752	20.090	1.00195.86	C
ATOM	6148	CD2	LEU	789	34.292	53.574	21.837	1.00195.86	C
ATOM	6149	C	LEU	789	32.236	55.182	25.044	1.00195.86	C
ATOM	6150	O	LEU	789	33.010	56.050	25.436	1.00195.86	O
ATOM	6151	N	SER	790	31.013	55.027	25.584	1.00102.05	N
ATOM	6152	CA	SER	790	30.615	55.871	26.675	1.00102.05	C
ATOM	6153	CB	SER	790	29.121	55.752	27.055	1.00102.05	C
ATOM	6154	OG	SER	790	28.831	54.502	27.664	1.00102.05	O
ATOM	6155	C	SER	790	31.438	55.545	27.886	1.00102.05	C
ATOM	6156	O	SER	790	31.846	56.441	28.623	1.00102.05	O
ATOM	6157	N	GLY	791	31.731	54.252	28.125	1.00 33.78	N
ATOM	6158	CA	GLY	791	32.433	53.922	29.330	1.00 33.78	C
ATOM	6159	C	GLY	791	33.768	54.580	29.323	1.00 33.78	C
ATOM	6160	O	GLY	791	34.162	55.211	30.302	1.00 33.78	O
ATOM	6161	N	GLN	792	34.511	54.454	28.212	1.00143.76	N
ATOM	6162	CA	GLN	792	35.808	55.046	28.205	1.00143.76	C
ATOM	6163	CB	GLN	792	36.715	54.522	27.088	1.00143.76	C
ATOM	6164	CG	GLN	792	38.177	54.872	27.354	1.00143.76	C
ATOM	6165	CD	GLN	792	38.605	54.195	28.654	1.00143.76	C
ATOM	6166	OE1	GLN	792	37.814	53.529	29.321	1.00143.76	O
ATOM	6167	NE2	GLN	792	39.898	54.377	29.028	1.00143.76	N
ATOM	6168	C	GLN	792	35.696	56.550	28.155	1.00143.76	C
ATOM	6169	O	GLN	792	36.469	57.237	28.816	1.00143.76	O
ATOM	6170	N	ALA	793	34.724	57.110	27.394	1.00 79.66	N
ATOM	6171	CA	ALA	793	34.584	58.545	27.231	1.00 79.66	C
ATOM	6172	CB	ALA	793	33.419	58.917	26.301	1.00 79.66	C
ATOM	6173	C	ALA	793	34.307	59.162	28.565	1.00 79.66	C
ATOM	6174	O	ALA	793	34.908	60.178	28.902	1.00 79.66	O
ATOM	6175	N	LEU	794	33.391	58.572	29.363	1.00119.83	N
ATOM	6176	CA	LEU	794	33.045	59.147	30.634	1.00119.83	C
ATOM	6177	CB	LEU	794	31.827	58.471	31.307	1.00119.83	C
ATOM	6178	CG	LEU	794	31.408	59.070	32.675	1.00119.83	C
ATOM	6179	CD1	LEU	794	32.358	58.682	33.820	1.00119.83	C
ATOM	6180	CD2	LEU	794	31.222	60.592	32.571	1.00119.83	C
ATOM	6181	C	LEU	794	34.207	59.042	31.564	1.00119.83	C
ATOM	6182	O	LEU	794	34.541	60.004	32.251	1.00119.83	O
ATOM	6183	N	LYS	795	34.872	57.874	31.602	1.00162.98	N
ATOM	6184	CA	LYS	795	35.921	57.687	32.555	1.00162.98	C
ATOM	6185	CB	LYS	795	36.426	56.231	32.592	1.00162.98	C
ATOM	6186	CG	LYS	795	37.381	55.821	31.477	1.00162.98	C
ATOM	6187	CD	LYS	795	38.838	56.148	31.794	1.00162.98	C
ATOM	6188	CE	LYS	795	39.428	55.217	32.857	1.00162.98	C
ATOM	6189	NZ	LYS	795	40.890	55.413	32.948	1.00162.98	N
ATOM	6190	C	LYS	795	37.024	58.668	32.263	1.00162.98	C
ATOM	6191	O	LYS	795	37.597	59.237	33.187	1.00162.98	O
ATOM	6192	N	ASP	796	37.343	58.905	30.971	1.00118.93	N
ATOM	6193	CA	ASP	796	38.382	59.829	30.569	1.00118.93	C
ATOM	6194	CB	ASP	796	38.695	59.734	29.069	1.00118.93	C
ATOM	6195	CG	ASP	796	40.092	60.295	28.867	1.00118.93	C
ATOM	6196	OD1	ASP	796	40.245	61.545	28.875	1.00118.93	O
ATOM	6197	OD2	ASP	796	41.030	59.469	28.705	1.00118.93	O
ATOM	6198	C	ASP	796	37.981	61.227	30.882	1.00118.93	C
ATOM	6199	O	ASP	796	38.800	62.031	31.320	1.00118.93	O
ATOM	6200	N	LYS	797	36.697	61.555	30.673	1.00169.15	N
ATOM	6201	CA	LYS	797	36.254	62.883	30.954	1.00169.15	C
ATOM	6202	CB	LYS	797	34.761	63.079	30.677	1.00169.15	C
ATOM	6203	CG	LYS	797	34.432	62.864	29.201	1.00169.15	C
ATOM	6204	CD	LYS	797	35.194	63.807	28.269	1.00169.15	C
ATOM	6205	CE	LYS	797	35.133	63.391	26.799	1.00169.15	C
ATOM	6206	NZ	LYS	797	36.000	62.211	26.573	1.00169.15	N
ATOM	6207	C	LYS	797	36.499	63.037	32.413	1.00169.15	C
ATOM	6208	O	LYS	797	36.737	64.146	32.874	1.00169.15	O
ATOM	6209	N	LYS	798	36.395	61.921	33.170	1.00191.64	N

ATOM	6210	CA	LYS	798	36.597	61.877	34.593	1.00191.64	C
ATOM	6211	CB	LYS	798	36.139	60.539	35.194	1.00191.64	C
ATOM	6212	CG	LYS	798	35.795	60.641	36.676	1.00191.64	C
ATOM	6213	CD	LYS	798	34.599	61.564	36.927	1.00191.64	C
ATOM	6214	CE	LYS	798	33.464	61.357	35.920	1.00191.64	C
ATOM	6215	NZ	LYS	798	32.351	62.293	36.198	1.00191.64	N
ATOM	6216	C	LYS	798	38.042	62.097	34.987	1.00191.64	C
ATOM	6217	O	LYS	798	38.322	62.925	35.849	1.00191.64	O
ATOM	6218	N	GLU	799	39.014	61.386	34.371	1.00101.65	N
ATOM	6219	CA	GLU	799	40.395	61.501	34.783	1.00101.65	C
ATOM	6220	CB	GLU	799	41.320	60.632	33.919	1.00101.65	C
ATOM	6221	CG	GLU	799	40.978	59.142	33.929	1.00101.65	C
ATOM	6222	CD	GLU	799	41.693	58.510	32.741	1.00101.65	C
ATOM	6223	OE1	GLU	799	41.410	58.935	31.589	1.00101.65	O
ATOM	6224	OE2	GLU	799	42.533	57.598	32.967	1.00101.65	O
ATOM	6225	C	GLU	799	40.806	62.911	34.526	1.00101.65	C
ATOM	6226	O	GLU	799	41.385	63.583	35.378	1.00101.65	O
ATOM	6227	N	LEU	800	40.450	63.373	33.318	1.00183.01	N
ATOM	6228	CA	LEU	800	40.642	64.677	32.762	1.00183.01	C
ATOM	6229	CB	LEU	800	39.951	64.693	31.384	1.00183.01	C
ATOM	6230	CG	LEU	800	39.619	66.060	30.775	1.00183.01	C
ATOM	6231	CD1	LEU	800	38.366	66.680	31.421	1.00183.01	C
ATOM	6232	CD2	LEU	800	40.829	66.993	30.812	1.00183.01	C
ATOM	6233	C	LEU	800	39.941	65.608	33.663	1.00183.01	C
ATOM	6234	O	LEU	800	40.429	66.697	33.931	1.00183.01	O
ATOM	6235	N	GLU	801	38.772	65.180	34.151	1.00128.41	N
ATOM	6236	CA	GLU	801	37.952	65.944	35.030	1.00128.41	C
ATOM	6237	CB	GLU	801	36.663	65.201	35.396	1.00128.41	C
ATOM	6238	CG	GLU	801	35.757	65.982	36.333	1.00128.41	C
ATOM	6239	CD	GLU	801	34.451	65.213	36.440	1.00128.41	C
ATOM	6240	OE1	GLU	801	34.250	64.277	35.621	1.00128.41	O
ATOM	6241	OE2	GLU	801	33.638	65.552	37.339	1.00128.41	O
ATOM	6242	C	GLU	801	38.719	66.139	36.280	1.00128.41	C
ATOM	6243	O	GLU	801	38.620	67.180	36.919	1.00128.41	O
ATOM	6244	N	GLY	802	39.498	65.129	36.688	1.00 68.84	N
ATOM	6245	CA	GLY	802	40.216	65.316	37.902	1.00 68.84	C
ATOM	6246	C	GLY	802	41.160	66.463	37.741	1.00 68.84	C
ATOM	6247	O	GLY	802	41.201	67.365	38.578	1.00 68.84	O
ATOM	6248	N	SER	803	41.943	66.447	36.646	1.00 76.16	N
ATOM	6249	CA	SER	803	42.920	67.465	36.397	1.00 76.16	C
ATOM	6250	CB	SER	803	43.822	67.145	35.192	1.00 76.16	C
ATOM	6251	OG	SER	803	44.528	65.932	35.409	1.00 76.16	O
ATOM	6252	C	SER	803	42.249	68.777	36.097	1.00 76.16	C
ATOM	6253	O	SER	803	42.450	69.768	36.784	1.00 76.16	O
ATOM	6254	N	GLY	804	41.387	68.817	35.074	1.00 81.81	N
ATOM	6255	CA	GLY	804	40.761	70.024	34.617	1.00 81.81	C
ATOM	6256	C	GLY	804	39.948	70.599	35.693	1.00 81.81	C
ATOM	6257	O	GLY	804	39.889	71.819	35.820	1.00 81.81	O
ATOM	6258	N	LYS	805	39.277	69.742	36.477	1.00164.25	N
ATOM	6259	CA	LYS	805	38.493	70.310	37.511	1.00164.25	C
ATOM	6260	CB	LYS	805	37.757	69.304	38.411	1.00164.25	C
ATOM	6261	CG	LYS	805	36.385	68.896	37.878	1.00164.25	C
ATOM	6262	CD	LYS	805	35.427	70.085	37.771	1.00164.25	C
ATOM	6263	CE	LYS	805	34.018	69.703	37.318	1.00164.25	C
ATOM	6264	NZ	LYS	805	33.148	70.901	37.292	1.00164.25	N
ATOM	6265	C	LYS	805	39.441	71.050	38.390	1.00164.25	C
ATOM	6266	O	LYS	805	39.115	72.147	38.829	1.00164.25	O
ATOM	6267	N	ILE	806	40.637	70.482	38.661	1.00159.75	N
ATOM	6268	CA	ILE	806	41.579	71.188	39.477	1.00159.75	C
ATOM	6269	CB	ILE	806	42.674	70.389	40.159	1.00159.75	C
ATOM	6270	CG1	ILE	806	43.660	69.701	39.213	1.00159.75	C
ATOM	6271	CG2	ILE	806	41.981	69.416	41.123	1.00159.75	C
ATOM	6272	CD1	ILE	806	44.903	69.177	39.931	1.00159.75	C
ATOM	6273	C	ILE	806	42.137	72.391	38.792	1.00159.75	C
ATOM	6274	O	ILE	806	42.430	73.398	39.427	1.00159.75	O
ATOM	6275	N	ALA	807	42.356	72.334	37.477	1.00105.67	N
ATOM	6276	CA	ALA	807	42.884	73.500	36.833	1.00105.67	C
ATOM	6277	CB	ALA	807	43.054	73.320	35.318	1.00105.67	C
ATOM	6278	C	ALA	807	41.877	74.588	37.023	1.00105.67	C
ATOM	6279	O	ALA	807	42.236	75.750	37.203	1.00105.67	O
ATOM	6280	N	THR	808	40.582	74.223	36.947	1.00105.50	N
ATOM	6281	CA	THR	808	39.503	75.147	37.140	1.00105.50	C
ATOM	6282	CB	THR	808	38.154	74.568	36.826	1.00105.50	C
ATOM	6283	OG1	THR	808	38.101	74.145	35.472	1.00105.50	O

ATOM	6284	CG2	THR	808	37.084	75.643	37.094	1.00105.50	C
ATOM	6285	C	THR	808	39.495	75.530	38.560	1.00105.50	C
ATOM	6286	O	THR	808	39.165	76.664	38.897	1.00105.50	O
ATOM	6287	N	GLU	809	39.841	74.582	39.445	1.00181.64	N
ATOM	6288	CA	GLU	809	39.776	74.960	40.805	1.00181.64	C
ATOM	6289	CB	GLU	809	40.023	73.838	41.842	1.00181.64	C
ATOM	6290	CG	GLU	809	41.454	73.321	41.977	1.00181.64	C
ATOM	6291	CD	GLU	809	41.467	72.238	43.050	1.00181.64	C
ATOM	6292	OE1	GLU	809	40.421	72.046	43.726	1.00181.64	O
ATOM	6293	OE2	GLU	809	42.535	71.588	43.208	1.00181.64	O
ATOM	6294	C	GLU	809	40.752	76.060	41.002	1.00181.64	C
ATOM	6295	O	GLU	809	40.407	77.050	41.634	1.00181.64	O
ATOM	6296	N	ALA	810	41.970	75.949	40.436	1.00138.77	N
ATOM	6297	CA	ALA	810	42.899	77.021	40.622	1.00138.77	C
ATOM	6298	CB	ALA	810	44.321	76.672	40.152	1.00138.77	C
ATOM	6299	C	ALA	810	42.485	78.269	39.896	1.00138.77	C
ATOM	6300	O	ALA	810	42.271	79.305	40.509	1.00138.77	O
ATOM	6301	N	ILE	811	42.255	78.202	38.576	1.00150.36	N
ATOM	6302	CA	ILE	811	42.005	79.420	37.860	1.00150.36	C
ATOM	6303	CB	ILE	811	41.959	79.217	36.366	1.00150.36	C
ATOM	6304	CG1	ILE	811	40.810	78.291	35.926	1.00150.36	C
ATOM	6305	CG2	ILE	811	43.346	78.697	35.946	1.00150.36	C
ATOM	6306	CD1	ILE	811	39.444	78.969	35.832	1.00150.36	C
ATOM	6307	C	ILE	811	40.728	80.033	38.362	1.00150.36	C
ATOM	6308	O	ILE	811	40.644	81.245	38.543	1.00150.36	O
ATOM	6309	N	GLU	812	39.696	79.208	38.625	1.00141.20	N
ATOM	6310	CA	GLU	812	38.437	79.728	39.071	1.00141.20	C
ATOM	6311	CB	GLU	812	37.272	78.736	39.195	1.00141.20	C
ATOM	6312	CG	GLU	812	35.989	79.502	39.553	1.00141.20	C
ATOM	6313	CD	GLU	812	34.788	78.571	39.592	1.00141.20	C
ATOM	6314	OE1	GLU	812	34.990	77.330	39.524	1.00141.20	O
ATOM	6315	OE2	GLU	812	33.646	79.095	39.692	1.00141.20	O
ATOM	6316	C	GLU	812	38.644	80.303	40.402	1.00141.20	C
ATOM	6317	O	GLU	812	37.914	81.192	40.833	1.00141.20	O
ATOM	6318	N	ASN	813	39.614	79.742	41.120	1.00262.93	N
ATOM	6319	CA	ASN	813	39.864	80.256	42.409	1.00262.93	C
ATOM	6320	CB	ASN	813	39.958	79.169	43.492	1.00262.93	C
ATOM	6321	CG	ASN	813	38.562	78.587	43.685	1.00262.93	C
ATOM	6322	OD1	ASN	813	37.573	79.313	43.774	1.00262.93	O
ATOM	6323	ND2	ASN	813	38.478	77.231	43.746	1.00262.93	N
ATOM	6324	C	ASN	813	41.159	80.977	42.355	1.00262.93	C
ATOM	6325	O	ASN	813	42.144	80.486	42.893	1.00262.93	O
ATOM	6326	N	PHE	814	41.158	82.251	41.874	1.00205.63	N
ATOM	6327	CA	PHE	814	42.306	83.129	41.783	1.00205.63	C
ATOM	6328	CB	PHE	814	42.056	84.497	41.110	1.00205.63	C
ATOM	6329	CG	PHE	814	41.218	85.393	41.961	1.00205.63	C
ATOM	6330	CD1	PHE	814	41.777	86.132	42.984	1.00205.63	C
ATOM	6331	CD2	PHE	814	39.874	85.531	41.710	1.00205.63	C
ATOM	6332	CE1	PHE	814	41.012	86.965	43.763	1.00205.63	C
ATOM	6333	CE2	PHE	814	39.101	86.365	42.483	1.00205.63	C
ATOM	6334	CZ	PHE	814	39.666	87.080	43.513	1.00205.63	C
ATOM	6335	C	PHE	814	42.741	83.377	43.185	1.00205.63	C
ATOM	6336	O	PHE	814	43.788	83.964	43.452	1.00205.63	O
ATOM	6337	N	ARG	815	41.883	82.926	44.112	1.00367.63	N
ATOM	6338	CA	ARG	815	41.974	82.907	45.516	1.00367.63	C
ATOM	6339	CB	ARG	815	40.918	82.092	46.296	1.00367.63	C
ATOM	6340	CG	ARG	815	39.492	82.632	46.387	1.00367.63	C
ATOM	6341	CD	ARG	815	38.531	82.116	45.321	1.00367.63	C
ATOM	6342	NE	ARG	815	38.702	82.905	44.079	1.00367.63	N
ATOM	6343	CZ	ARG	815	37.751	82.778	43.112	1.00367.63	C
ATOM	6344	NH1	ARG	815	36.745	81.869	43.278	1.00367.63	N
ATOM	6345	NH2	ARG	815	37.801	83.568	42.002	1.00367.63	N
ATOM	6346	C	ARG	815	43.243	82.222	45.923	1.00367.63	C
ATOM	6347	O	ARG	815	43.429	81.960	47.105	1.00367.63	O
ATOM	6348	N	THR	816	43.964	81.619	44.971	1.00249.82	N
ATOM	6349	CA	THR	816	45.280	81.085	45.139	1.00249.82	C
ATOM	6350	CB	THR	816	45.595	80.125	44.037	1.00249.82	C
ATOM	6351	OG1	THR	816	46.941	79.687	44.139	1.00249.82	O
ATOM	6352	CG2	THR	816	45.338	80.812	42.685	1.00249.82	C
ATOM	6353	C	THR	816	46.345	82.138	45.121	1.00249.82	C
ATOM	6354	O	THR	816	47.140	82.227	46.050	1.00249.82	O
ATOM	6355	N	VAL	817	46.322	83.044	44.107	1.00215.79	N
ATOM	6356	CA	VAL	817	47.314	84.059	43.865	1.00215.79	C
ATOM	6357	CB	VAL	817	47.075	84.909	42.650	1.00215.79	C

ATOM	6358	CG1	VAL	817	46.816	83.976	41.462	1.00215.79	C
ATOM	6359	CG2	VAL	817	45.986	85.947	42.927	1.00215.79	C
ATOM	6360	C	VAL	817	47.223	84.920	45.060	1.00215.79	C
ATOM	6361	O	VAL	817	48.124	85.696	45.366	1.00215.79	O
ATOM	6362	N	VAL	818	46.075	84.816	45.746	1.00219.08	N
ATOM	6363	CA	VAL	818	45.899	85.553	46.932	1.00219.08	C
ATOM	6364	CB	VAL	818	44.593	85.328	47.647	1.00219.08	C
ATOM	6365	CG1	VAL	818	44.619	84.009	48.422	1.00219.08	C
ATOM	6366	CG2	VAL	818	44.349	86.532	48.563	1.00219.08	C
ATOM	6367	C	VAL	818	47.033	85.224	47.850	1.00219.08	C
ATOM	6368	O	VAL	818	47.560	86.131	48.483	1.00219.08	O
ATOM	6369	N	SER	819	47.383	83.929	48.021	1.00164.79	N
ATOM	6370	CA	SER	819	48.499	83.513	48.822	1.00164.79	C
ATOM	6371	CB	SER	819	48.211	82.177	49.513	1.00164.79	C
ATOM	6372	OG	SER	819	49.270	81.851	50.391	1.00164.79	O
ATOM	6373	C	SER	819	49.743	83.361	47.978	1.00164.79	C
ATOM	6374	O	SER	819	50.856	83.645	48.414	1.00164.79	O
ATOM	6375	N	LEU	820	49.571	82.833	46.750	1.00174.88	N
ATOM	6376	CA	LEU	820	50.590	82.596	45.762	1.00174.88	C
ATOM	6377	CB	LEU	820	51.251	83.932	45.337	1.00174.88	C
ATOM	6378	CG	LEU	820	52.255	83.891	44.164	1.00174.88	C
ATOM	6379	CD1	LEU	820	52.422	85.290	43.549	1.00174.88	C
ATOM	6380	CD2	LEU	820	53.633	83.367	44.599	1.00174.88	C
ATOM	6381	C	LEU	820	51.537	81.549	46.296	1.00174.88	C
ATOM	6382	O	LEU	820	52.501	81.134	45.655	1.00174.88	O
ATOM	6383	N	THR	821	51.186	80.989	47.461	1.00183.61	N
ATOM	6384	CA	THR	821	51.966	80.006	48.149	1.00183.61	C
ATOM	6385	CB	THR	821	51.577	79.799	49.585	1.00183.61	C
ATOM	6386	OG1	THR	821	50.196	79.490	49.694	1.00183.61	O
ATOM	6387	CG2	THR	821	51.933	81.066	50.380	1.00183.61	C
ATOM	6388	C	THR	821	52.024	78.662	47.448	1.00183.61	C
ATOM	6389	O	THR	821	52.626	77.773	48.041	1.00183.61	O
ATOM	6390	N	GLN	822	51.171	78.360	46.424	1.00315.35	N
ATOM	6391	CA	GLN	822	51.247	77.158	45.598	1.00315.35	C
ATOM	6392	CB	GLN	822	49.933	76.382	45.586	1.00315.35	C
ATOM	6393	CG	GLN	822	49.572	75.946	46.999	1.00315.35	C
ATOM	6394	CD	GLN	822	50.794	75.256	47.593	1.00315.35	C
ATOM	6395	OE1	GLN	822	51.313	75.676	48.625	1.00315.35	O
ATOM	6396	NE2	GLN	822	51.274	74.171	46.932	1.00315.35	N
ATOM	6397	C	GLN	822	51.759	77.233	44.164	1.00315.35	C
ATOM	6398	O	GLN	822	52.272	76.242	43.653	1.00315.35	O
ATOM	6399	N	GLU	823	51.540	78.369	43.458	1.00269.82	N
ATOM	6400	CA	GLU	823	51.761	78.628	42.042	1.00269.82	C
ATOM	6401	CB	GLU	823	52.760	79.769	41.779	1.00269.82	C
ATOM	6402	CG	GLU	823	52.293	81.132	42.311	1.00269.82	C
ATOM	6403	CD	GLU	823	50.981	81.565	41.652	1.00269.82	C
ATOM	6404	OE1	GLU	823	50.093	80.701	41.422	1.00269.82	O
ATOM	6405	OE2	GLU	823	50.842	82.791	41.395	1.00269.82	O
ATOM	6406	C	GLU	823	52.141	77.432	41.203	1.00269.82	C
ATOM	6407	O	GLU	823	51.323	76.576	40.854	1.00269.82	O
ATOM	6408	N	GLN	824	53.422	77.371	40.813	1.00113.84	N
ATOM	6409	CA	GLN	824	53.878	76.321	39.954	1.00113.84	C
ATOM	6410	CB	GLN	824	55.392	76.408	39.705	1.00113.84	C
ATOM	6411	CG	GLN	824	55.888	75.409	38.663	1.00113.84	C
ATOM	6412	CD	GLN	824	55.260	75.789	37.330	1.00113.84	C
ATOM	6413	OE1	GLN	824	55.351	76.934	36.889	1.00113.84	O
ATOM	6414	NE2	GLN	824	54.595	74.802	36.672	1.00113.84	N
ATOM	6415	C	GLN	824	53.592	75.022	40.623	1.00113.84	C
ATOM	6416	O	GLN	824	53.141	74.082	39.966	1.00113.84	O
ATOM	6417	N	LYS	825	53.777	74.978	41.959	1.00154.47	N
ATOM	6418	CA	LYS	825	53.570	73.783	42.727	1.00154.47	C
ATOM	6419	CB	LYS	825	53.699	73.990	44.250	1.00154.47	C
ATOM	6420	CG	LYS	825	53.497	72.734	45.108	1.00154.47	C
ATOM	6421	CD	LYS	825	52.080	72.150	45.073	1.00154.47	C
ATOM	6422	CE	LYS	825	51.801	71.133	46.179	1.00154.47	C
ATOM	6423	NZ	LYS	825	50.342	70.939	46.326	1.00154.47	N
ATOM	6424	C	LYS	825	52.188	73.333	42.389	1.00154.47	C
ATOM	6425	O	LYS	825	51.904	72.137	42.331	1.00154.47	O
ATOM	6426	N	PHE	826	51.291	74.302	42.152	1.00218.33	N
ATOM	6427	CA	PHE	826	49.941	73.967	41.830	1.00218.33	C
ATOM	6428	CB	PHE	826	49.072	75.220	41.664	1.00218.33	C
ATOM	6429	CG	PHE	826	47.864	75.077	42.522	1.00218.33	C
ATOM	6430	CD1	PHE	826	46.948	74.068	42.346	1.00218.33	C
ATOM	6431	CD2	PHE	826	47.684	75.953	43.566	1.00218.33	C

ATOM	6432	CE1	PHE	826	45.853	73.967	43.175	1.00218.33	C
ATOM	6433	CE2	PHE	826	46.593	75.859	44.394	1.00218.33	C
ATOM	6434	CZ	PHE	826	45.669	74.865	44.198	1.00218.33	C
ATOM	6435	C	PHE	826	49.811	73.244	40.525	1.00218.33	C
ATOM	6436	O	PHE	826	49.639	72.029	40.502	1.00218.33	O
ATOM	6437	N	GLU	827	50.062	73.956	39.405	1.00186.21	N
ATOM	6438	CA	GLU	827	49.817	73.462	38.072	1.00186.21	C
ATOM	6439	CB	GLU	827	50.239	74.485	37.007	1.00186.21	C
ATOM	6440	CG	GLU	827	49.393	74.401	35.745	1.00186.21	C
ATOM	6441	CD	GLU	827	47.994	74.824	36.167	1.00186.21	C
ATOM	6442	OE1	GLU	827	47.860	75.919	36.776	1.00186.21	O
ATOM	6443	OE2	GLU	827	47.040	74.046	35.906	1.00186.21	O
ATOM	6444	C	GLU	827	50.663	72.249	37.947	1.00186.21	C
ATOM	6445	O	GLU	827	50.384	71.351	37.151	1.00186.21	O
ATOM	6446	N	HIS	828	51.746	72.229	38.745	1.00145.37	N
ATOM	6447	CA	HIS	828	52.670	71.138	38.768	1.00145.37	C
ATOM	6448	ND1	HIS	828	55.859	69.985	39.129	1.00145.37	N
ATOM	6449	CG	HIS	828	54.697	70.125	39.861	1.00145.37	C
ATOM	6450	CB	HIS	828	53.792	71.319	39.798	1.00145.37	C
ATOM	6451	NE2	HIS	828	55.651	68.137	40.351	1.00145.37	N
ATOM	6452	CD2	HIS	828	54.588	68.987	40.598	1.00145.37	C
ATOM	6453	CE1	HIS	828	56.387	68.782	39.461	1.00145.37	C
ATOM	6454	C	HIS	828	51.979	69.871	39.150	1.00145.37	C
ATOM	6455	O	HIS	828	52.154	68.844	38.497	1.00145.37	O
ATOM	6456	N	MET	829	51.144	69.915	40.200	1.00158.72	N
ATOM	6457	CA	MET	829	50.483	68.725	40.647	1.00158.72	C
ATOM	6458	CB	MET	829	49.578	68.984	41.866	1.00158.72	C
ATOM	6459	CG	MET	829	48.358	69.856	41.574	1.00158.72	C
ATOM	6460	SD	MET	829	47.699	70.739	43.022	1.00158.72	S
ATOM	6461	CE	MET	829	47.432	69.277	44.063	1.00158.72	C
ATOM	6462	C	MET	829	49.669	68.243	39.485	1.00158.72	C
ATOM	6463	O	MET	829	49.503	67.045	39.262	1.00158.72	O
ATOM	6464	N	TYR	830	49.151	69.196	38.697	1.00168.81	N
ATOM	6465	CA	TYR	830	48.344	68.927	37.536	1.00168.81	C
ATOM	6466	CB	TYR	830	47.861	70.202	36.815	1.00168.81	C
ATOM	6467	CG	TYR	830	47.013	71.013	37.728	1.00168.81	C
ATOM	6468	CD1	TYR	830	47.534	71.474	38.902	1.00168.81	C
ATOM	6469	CD2	TYR	830	45.732	71.374	37.417	1.00168.81	C
ATOM	6470	CE1	TYR	830	46.845	72.240	39.802	1.00168.81	C
ATOM	6471	CE2	TYR	830	45.030	72.145	38.312	1.00168.81	C
ATOM	6472	CZ	TYR	830	45.561	72.579	39.498	1.00168.81	C
ATOM	6473	OH	TYR	830	44.811	73.369	40.393	1.00168.81	O
ATOM	6474	C	TYR	830	49.184	68.238	36.520	1.00168.81	C
ATOM	6475	O	TYR	830	48.698	67.391	35.773	1.00168.81	O
ATOM	6476	N	ALA	831	50.471	68.617	36.435	1.00 59.11	N
ATOM	6477	CA	ALA	831	51.293	68.057	35.404	1.00 59.11	C
ATOM	6478	CB	ALA	831	52.747	68.555	35.469	1.00 59.11	C
ATOM	6479	C	ALA	831	51.309	66.578	35.583	1.00 59.11	C
ATOM	6480	O	ALA	831	51.257	65.822	34.613	1.00 59.11	O
ATOM	6481	N	GLN	832	51.389	66.125	36.842	1.00 66.71	N
ATOM	6482	CA	GLN	832	51.444	64.715	37.067	1.00 66.71	C
ATOM	6483	CB	GLN	832	51.792	64.373	38.519	1.00 66.71	C
ATOM	6484	CG	GLN	832	53.127	64.988	38.950	1.00 66.71	C
ATOM	6485	CD	GLN	832	54.215	64.530	37.984	1.00 66.71	C
ATOM	6486	OE1	GLN	832	54.172	64.831	36.791	1.00 66.71	O
ATOM	6487	NE2	GLN	832	55.225	63.785	38.508	1.00 66.71	N
ATOM	6488	C	GLN	832	50.140	64.078	36.708	1.00 66.71	C
ATOM	6489	O	GLN	832	50.104	63.023	36.073	1.00 66.71	O
ATOM	6490	N	SER	833	49.029	64.738	37.076	1.00103.42	N
ATOM	6491	CA	SER	833	47.717	64.201	36.865	1.00103.42	C
ATOM	6492	CB	SER	833	46.627	65.239	37.165	1.00103.42	C
ATOM	6493	OG	SER	833	46.848	65.809	38.444	1.00103.42	O
ATOM	6494	C	SER	833	47.594	63.886	35.419	1.00103.42	C
ATOM	6495	O	SER	833	47.331	62.742	35.064	1.00103.42	O
ATOM	6496	N	LEU	834	47.891	64.866	34.549	1.00132.08	N
ATOM	6497	CA	LEU	834	47.714	64.675	33.140	1.00132.08	C
ATOM	6498	CB	LEU	834	48.214	65.840	32.259	1.00132.08	C
ATOM	6499	CG	LEU	834	47.316	67.095	32.179	1.00132.08	C
ATOM	6500	CD1	LEU	834	45.973	66.778	31.501	1.00132.08	C
ATOM	6501	CD2	LEU	834	47.167	67.801	33.533	1.00132.08	C
ATOM	6502	C	LEU	834	48.502	63.493	32.709	1.00132.08	C
ATOM	6503	O	LEU	834	48.009	62.687	31.922	1.00132.08	O
ATOM	6504	N	GLN	835	49.703	63.324	33.288	1.00 88.15	N
ATOM	6505	CA	GLN	835	50.632	62.314	32.870	1.00 88.15	C



ATOM	6506	CB	GLN	835	51.746	62.190	33.920	1.00	88.15	C
ATOM	6507	CG	GLN	835	52.721	61.033	33.735	1.00	88.15	C
ATOM	6508	CD	GLN	835	53.648	61.075	34.945	1.00	88.15	C
ATOM	6509	OE1	GLN	835	54.828	61.402	34.835	1.00	88.15	O
ATOM	6510	NE2	GLN	835	53.090	60.750	36.142	1.00	88.15	N
ATOM	6511	C	GLN	835	49.934	60.988	32.809	1.00	88.15	C
ATOM	6512	O	GLN	835	49.988	60.302	31.787	1.00	88.15	O
ATOM	6513	N	VAL	836	49.212	60.612	33.878	1.00	141.88	N
ATOM	6514	CA	VAL	836	48.536	59.346	33.845	1.00	141.88	C
ATOM	6515	CB	VAL	836	48.059	58.893	35.211	1.00	141.88	C
ATOM	6516	CG1	VAL	836	47.722	60.098	36.111	1.00	141.88	C
ATOM	6517	CG2	VAL	836	46.881	57.924	35.011	1.00	141.88	C
ATOM	6518	C	VAL	836	47.448	59.299	32.802	1.00	141.88	C
ATOM	6519	O	VAL	836	47.442	58.361	31.998	1.00	141.88	O
ATOM	6520	N	PRO	837	46.541	60.230	32.692	1.00	96.42	N
ATOM	6521	CA	PRO	837	45.594	60.061	31.635	1.00	96.42	C
ATOM	6522	CD	PRO	837	45.840	60.721	33.864	1.00	96.42	C
ATOM	6523	CB	PRO	837	44.463	61.043	31.907	1.00	96.42	C
ATOM	6524	CG	PRO	837	44.406	61.063	33.437	1.00	96.42	C
ATOM	6525	C	PRO	837	46.187	60.166	30.278	1.00	96.42	C
ATOM	6526	O	PRO	837	45.495	59.829	29.319	1.00	96.42	O
ATOM	6527	N	TYR	838	47.422	60.679	30.156	1.00	145.30	N
ATOM	6528	CA	TYR	838	48.008	60.822	28.855	1.00	145.30	C
ATOM	6529	CB	TYR	838	49.287	61.679	28.911	1.00	145.30	C
ATOM	6530	CG	TYR	838	49.671	61.990	27.510	1.00	145.30	C
ATOM	6531	CD1	TYR	838	48.987	62.964	26.822	1.00	145.30	C
ATOM	6532	CD2	TYR	838	50.679	61.304	26.877	1.00	145.30	C
ATOM	6533	CE1	TYR	838	49.310	63.268	25.524	1.00	145.30	C
ATOM	6534	CE2	TYR	838	51.008	61.605	25.577	1.00	145.30	C
ATOM	6535	CZ	TYR	838	50.325	62.588	24.901	1.00	145.30	C
ATOM	6536	OH	TYR	838	50.654	62.902	23.567	1.00	145.30	O
ATOM	6537	C	TYR	838	48.324	59.473	28.271	1.00	145.30	C
ATOM	6538	O	TYR	838	47.957	59.175	27.133	1.00	145.30	O
ATOM	6539	N	ARG	839	48.983	58.599	29.058	1.00	62.96	N
ATOM	6540	CA	ARG	839	49.366	57.312	28.543	1.00	62.96	C
ATOM	6541	CB	ARG	839	50.116	56.463	29.585	1.00	62.96	C
ATOM	6542	CG	ARG	839	51.529	56.962	29.882	1.00	62.96	C
ATOM	6543	CD	ARG	839	52.134	56.341	31.140	1.00	62.96	C
ATOM	6544	NE	ARG	839	51.328	56.843	32.287	1.00	62.96	N
ATOM	6545	CZ	ARG	839	51.961	57.344	33.386	1.00	62.96	C
ATOM	6546	NH1	ARG	839	53.325	57.345	33.434	1.00	62.96	N
ATOM	6547	NH2	ARG	839	51.237	57.853	34.424	1.00	62.96	N
ATOM	6548	C	ARG	839	48.116	56.580	28.191	1.00	62.96	C
ATOM	6549	O	ARG	839	47.983	55.992	27.117	1.00	62.96	O
ATOM	6550	N	ASN	840	47.138	56.672	29.100	1.00	69.82	N
ATOM	6551	CA	ASN	840	45.873	56.015	28.984	1.00	69.82	C
ATOM	6552	CB	ASN	840	44.957	56.409	30.158	1.00	69.82	C
ATOM	6553	CG	ASN	840	43.550	55.887	29.915	1.00	69.82	C
ATOM	6554	OD1	ASN	840	42.799	56.451	29.122	1.00	69.82	O
ATOM	6555	ND2	ASN	840	43.177	54.790	30.624	1.00	69.82	N
ATOM	6556	C	ASN	840	45.216	56.459	27.712	1.00	69.82	C
ATOM	6557	O	ASN	840	44.563	55.667	27.034	1.00	69.82	O
ATOM	6558	N	SER	841	45.383	57.745	27.354	1.00	87.58	N
ATOM	6559	CA	SER	841	44.724	58.304	26.204	1.00	87.58	C
ATOM	6560	CB	SER	841	44.993	59.809	26.041	1.00	87.58	C
ATOM	6561	OG	SER	841	44.296	60.313	24.911	1.00	87.58	O
ATOM	6562	C	SER	841	45.163	57.623	24.949	1.00	87.58	C
ATOM	6563	O	SER	841	44.332	57.320	24.095	1.00	87.58	O
ATOM	6564	N	LEU	842	46.469	57.333	24.801	1.00	50.27	N
ATOM	6565	CA	LEU	842	46.909	56.751	23.564	1.00	50.27	C
ATOM	6566	CB	LEU	842	48.426	56.498	23.502	1.00	50.27	C
ATOM	6567	CG	LEU	842	49.258	57.793	23.492	1.00	50.27	C
ATOM	6568	CD1	LEU	842	50.747	57.502	23.240	1.00	50.27	C
ATOM	6569	CD2	LEU	842	48.675	58.816	22.505	1.00	50.27	C
ATOM	6570	C	LEU	842	46.219	55.441	23.372	1.00	50.27	C
ATOM	6571	O	LEU	842	45.768	55.111	22.275	1.00	50.27	O
ATOM	6572	N	ARG	843	46.100	54.668	24.459	1.00	132.71	N
ATOM	6573	CA	ARG	843	45.505	53.369	24.404	1.00	132.71	C
ATOM	6574	CB	ARG	843	45.436	52.813	25.832	1.00	132.71	C
ATOM	6575	CG	ARG	843	44.761	51.460	25.999	1.00	132.71	C
ATOM	6576	CD	ARG	843	44.723	51.050	27.470	1.00	132.71	C
ATOM	6577	NE	ARG	843	46.140	50.948	27.916	1.00	132.71	N
ATOM	6578	CZ	ARG	843	46.547	51.551	29.070	1.00	132.71	C
ATOM	6579	NH1	ARG	843	45.651	52.235	29.840	1.00	132.71	N

ATOM	6580	NH2	ARG	843	47.859	51.484	29.445	1.00132.71
ATOM	6581	C	ARG	843	44.102	53.487	23.885	1.00132.71
ATOM	6582	O	ARG	843	43.738	52.881	22.877	1.00132.71
ATOM	6583	N	LYS	844	43.297	54.355	24.514	1.00132.10
ATOM	6584	CA	LYS	844	41.915	54.481	24.155	1.00132.10
ATOM	6585	CB	LYS	844	41.132	55.443	25.067	1.00132.10
ATOM	6586	CG	LYS	844	41.581	56.902	24.993	1.00132.10
ATOM	6587	CD	LYS	844	40.636	57.854	25.729	1.00132.10
ATOM	6588	CE	LYS	844	41.037	59.325	25.624	1.00132.10
ATOM	6589	NZ	LYS	844	40.611	59.864	24.314	1.00132.10
ATOM	6590	C	LYS	844	41.815	54.953	22.747	1.00132.10
ATOM	6591	O	LYS	844	40.804	54.708	22.097	1.00132.10
ATOM	6592	N	ALA	845	42.832	55.673	22.239	1.00 65.52
ATOM	6593	CA	ALA	845	42.753	56.111	20.873	1.00 65.52
ATOM	6594	CB	ALA	845	44.073	56.736	20.407	1.00 65.52
ATOM	6595	C	ALA	845	42.598	54.865	20.064	1.00 65.52
ATOM	6596	O	ALA	845	41.662	54.713	19.281	1.00 65.52
ATOM	6597	N	HIS	846	43.451	53.878	20.364	1.00 69.24
ATOM	6598	CA	HIS	846	43.460	52.630	19.668	1.00 69.24
ATOM	6599	ND1	HIS	846	43.208	49.407	20.313	1.00 69.24
ATOM	6600	CG	HIS	846	44.252	50.208	19.914	1.00 69.24
ATOM	6601	CB	HIS	846	44.407	51.632	20.363	1.00 69.24
ATOM	6602	NE2	HIS	846	44.493	48.160	18.998	1.00 69.24
ATOM	6603	CD2	HIS	846	45.031	49.430	19.109	1.00 69.24
ATOM	6604	CE1	HIS	846	43.399	48.193	19.737	1.00 69.24
ATOM	6605	C	HIS	846	42.091	52.036	19.731	1.00 69.24
ATOM	6606	O	HIS	846	41.541	51.612	18.716	1.00 69.24
ATOM	6607	N	ILE	847	41.481	52.026	20.925	1.00149.43
ATOM	6608	CA	ILE	847	40.230	51.343	21.064	1.00149.43
ATOM	6609	CB	ILE	847	39.745	51.276	22.490	1.00149.43
ATOM	6610	CG1	ILE	847	38.704	50.157	22.668	1.00149.43
ATOM	6611	CG2	ILE	847	39.194	52.650	22.889	1.00149.43
ATOM	6612	CD1	ILE	847	37.383	50.411	21.947	1.00149.43
ATOM	6613	C	ILE	847	39.171	51.969	20.197	1.00149.43
ATOM	6614	O	ILE	847	38.413	51.255	19.543	1.00149.43
ATOM	6615	N	PHE	848	39.097	53.312	20.128	1.00 76.72
ATOM	6616	CA	PHE	848	38.048	53.935	19.363	1.00 76.72
ATOM	6617	CB	PHE	848	38.060	55.475	19.420	1.00 76.72
ATOM	6618	CG	PHE	848	37.557	55.884	20.769	1.00 76.72
ATOM	6619	CD1	PHE	848	38.404	55.971	21.846	1.00 76.72
ATOM	6620	CD2	PHE	848	36.229	56.185	20.966	1.00 76.72
ATOM	6621	CE1	PHE	848	37.957	56.344	23.091	1.00 76.72
ATOM	6622	CE2	PHE	848	35.770	56.560	22.208	1.00 76.72
ATOM	6623	CZ	PHE	848	36.631	56.641	23.276	1.00 76.72
ATOM	6624	C	PHE	848	38.171	53.481	17.957	1.00 76.72
ATOM	6625	O	PHE	848	37.170	53.243	17.280	1.00 76.72
ATOM	6626	N	GLY	849	39.411	53.357	17.469	1.00 52.23
ATOM	6627	CA	GLY	849	39.542	52.938	16.112	1.00 52.23
ATOM	6628	C	GLY	849	38.988	51.552	15.917	1.00 52.23
ATOM	6629	O	GLY	849	38.126	51.352	15.065	1.00 52.23
ATOM	6630	N	ILE	850	39.391	50.573	16.754	1.00 57.98
ATOM	6631	CA	ILE	850	39.016	49.205	16.510	1.00 57.98
ATOM	6632	CB	ILE	850	39.556	48.256	17.547	1.00 57.98
ATOM	6633	CG1	ILE	850	39.272	46.800	17.141	1.00 57.98
ATOM	6634	CG2	ILE	850	38.994	48.650	18.920	1.00 57.98
ATOM	6635	CD1	ILE	850	40.009	45.769	17.996	1.00 57.98
ATOM	6636	C	ILE	850	37.527	49.104	16.490	1.00 57.98
ATOM	6637	O	ILE	850	36.954	48.458	15.613	1.00 57.98
ATOM	6638	N	THR	851	36.851	49.774	17.433	1.00 69.41
ATOM	6639	CA	THR	851	35.422	49.674	17.463	1.00 69.41
ATOM	6640	CB	THR	851	34.828	50.454	18.593	1.00 69.41
ATOM	6641	OG1	THR	851	35.221	51.815	18.491	1.00 69.41
ATOM	6642	CG2	THR	851	35.315	49.855	19.921	1.00 69.41
ATOM	6643	C	THR	851	34.815	50.198	16.193	1.00 69.41
ATOM	6644	O	THR	851	34.107	49.473	15.499	1.00 69.41
ATOM	6645	N	PHE	852	35.162	51.438	15.803	1.00113.88
ATOM	6646	CA	PHE	852	34.565	52.090	14.664	1.00113.88
ATOM	6647	CB	PHE	852	35.267	53.433	14.378	1.00113.88
ATOM	6648	CG	PHE	852	34.842	53.996	13.065	1.00113.88
ATOM	6649	CD1	PHE	852	33.613	54.592	12.918	1.00113.88
ATOM	6650	CD2	PHE	852	35.674	53.914	11.971	1.00113.88
ATOM	6651	CE1	PHE	852	33.229	55.112	11.704	1.00113.88
ATOM	6652	CE2	PHE	852	35.296	54.433	10.754	1.00113.88
ATOM	6653	CZ	PHE	852	34.070	55.037	10.618	1.00113.88

ATOM	6654	C	PHE	852	34.708	51.195	13.471	1.00113.88
ATOM	6655	O	PHE	852	33.738	50.943	12.752	1.00113.88
ATOM	6656	N	SER	853	35.913	50.633	13.287	1.00111.94
ATOM	6657	CA	SER	853	36.205	49.798	12.161	1.00111.94
ATOM	6658	CB	SER	853	37.578	49.137	12.285	1.00111.94
ATOM	6659	OG	SER	853	38.556	50.133	12.515	1.00111.94
ATOM	6660	C	SER	853	35.240	48.665	12.128	1.00111.94
ATOM	6661	O	SER	853	34.569	48.455	11.122	1.00111.94
ATOM	6662	N	PHE	854	35.084	47.956	13.260	1.00 87.30
ATOM	6663	CA	PHE	854	34.277	46.767	13.293	1.00 87.30
ATOM	6664	CB	PHE	854	34.108	46.129	14.684	1.00 87.30
ATOM	6665	CG	PHE	854	33.232	44.929	14.500	1.00 87.30
ATOM	6666	CD1	PHE	854	33.775	43.700	14.200	1.00 87.30
ATOM	6667	CD2	PHE	854	31.862	45.033	14.615	1.00 87.30
ATOM	6668	CE1	PHE	854	32.970	42.597	14.028	1.00 87.30
ATOM	6669	CE2	PHE	854	31.052	43.935	14.443	1.00 87.30
ATOM	6670	CZ	PHE	854	31.607	42.712	14.150	1.00 87.30
ATOM	6671	C	PHE	854	32.913	47.122	12.816	1.00 87.30
ATOM	6672	O	PHE	854	32.221	46.304	12.216	1.00 87.30
ATOM	6673	N	THR	855	32.478	48.359	13.086	1.00 55.60
ATOM	6674	CA	THR	855	31.173	48.745	12.642	1.00 55.60
ATOM	6675	CB	THR	855	30.840	50.160	13.015	1.00 55.60
ATOM	6676	OG1	THR	855	30.914	50.320	14.424	1.00 55.60
ATOM	6677	CG2	THR	855	29.421	50.482	12.526	1.00 55.60
ATOM	6678	C	THR	855	31.115	48.651	11.145	1.00 55.60
ATOM	6679	O	THR	855	30.161	48.117	10.583	1.00 55.60
ATOM	6680	N	GLN	856	32.146	49.173	10.462	1.00 84.45
ATOM	6681	CA	GLN	856	32.209	49.202	9.028	1.00 84.45
ATOM	6682	CB	GLN	856	33.361	50.086	8.538	1.00 84.45
ATOM	6683	CG	GLN	856	33.386	51.469	9.206	1.00 84.45
ATOM	6684	CD	GLN	856	31.987	52.075	9.215	1.00 84.45
ATOM	6685	OE1	GLN	856	31.073	51.558	9.856	1.00 84.45
ATOM	6686	NE2	GLN	856	31.821	53.220	8.500	1.00 84.45
ATOM	6687	C	GLN	856	32.384	47.809	8.485	1.00 84.45
ATOM	6688	O	GLN	856	31.904	47.494	7.396	1.00 84.45
ATOM	6689	N	ALA	857	33.102	46.938	9.221	1.00 54.50
ATOM	6690	CA	ALA	857	33.292	45.579	8.797	1.00 54.50
ATOM	6691	CB	ALA	857	33.980	44.697	9.850	1.00 54.50
ATOM	6692	C	ALA	857	31.931	45.013	8.701	1.00 54.50
ATOM	6693	O	ALA	857	31.613	44.254	7.790	1.00 54.50
ATOM	6694	N	MET	858	31.080	45.413	9.650	1.00180.72
ATOM	6695	CA	MET	858	29.753	44.907	9.681	1.00180.72
ATOM	6696	CB	MET	858	28.901	45.536	10.796	1.00180.72
ATOM	6697	CG	MET	858	27.579	44.805	11.010	1.00180.72
ATOM	6698	SD	MET	858	27.732	43.177	11.807	1.00180.72
ATOM	6699	CE	MET	858	27.808	43.810	13.508	1.00180.72
ATOM	6700	C	MET	858	29.156	45.288	8.373	1.00180.72
ATOM	6701	O	MET	858	28.375	44.531	7.802	1.00180.72
ATOM	6702	N	MET	859	29.553	46.459	7.840	1.00160.57
ATOM	6703	CA	MET	859	28.967	46.901	6.610	1.00160.57
ATOM	6704	CB	MET	859	29.642	48.119	5.975	1.00160.57
ATOM	6705	CG	MET	859	29.601	49.415	6.764	1.00160.57
ATOM	6706	SD	MET	859	30.337	50.784	5.826	1.00160.57
ATOM	6707	CE	MET	859	31.972	50.024	5.637	1.00160.57
ATOM	6708	C	MET	859	29.143	45.868	5.543	1.00160.57
ATOM	6709	O	MET	859	28.158	45.386	4.987	1.00160.57
ATOM	6710	N	TYR	860	30.396	45.463	5.256	1.00 88.98
ATOM	6711	CA	TYR	860	30.587	44.564	4.158	1.00 88.98
ATOM	6712	CB	TYR	860	32.045	44.409	3.689	1.00 88.98
ATOM	6713	CG	TYR	860	32.808	43.494	4.575	1.00 88.98
ATOM	6714	CD1	TYR	860	33.393	43.933	5.739	1.00 88.98
ATOM	6715	CD2	TYR	860	32.953	42.177	4.205	1.00 88.98
ATOM	6716	CE1	TYR	860	34.106	43.062	6.528	1.00 88.98
ATOM	6717	CE2	TYR	860	33.664	41.302	4.988	1.00 88.98
ATOM	6718	CZ	TYR	860	34.242	41.746	6.152	1.00 88.98
ATOM	6719	OH	TYR	860	34.975	40.850	6.957	1.00 88.98
ATOM	6720	C	TYR	860	30.027	43.220	4.490	1.00 88.98
ATOM	6721	O	TYR	860	29.369	42.613	3.645	1.00 88.98
ATOM	6722	N	PHE	861	30.236	42.743	5.739	1.00 73.69
ATOM	6723	CA	PHE	861	29.775	41.436	6.131	1.00 73.69
ATOM	6724	CB	PHE	861	29.797	41.163	7.652	1.00 73.69
ATOM	6725	CG	PHE	861	31.126	40.759	8.192	1.00 73.69
ATOM	6726	CD1	PHE	861	32.055	41.682	8.607	1.00 73.69
ATOM	6727	CD2	PHE	861	31.423	39.421	8.316	1.00 73.69

ATOM	6728	CE1	PHE	861	33.266	41.278	9.115	1.00	73.69	C
ATOM	6729	CE2	PHE	861	32.631	39.006	8.823	1.00	73.69	C
ATOM	6730	CZ	PHE	861	33.557	39.939	9.222	1.00	73.69	C
ATOM	6731	C	PHE	861	28.322	41.376	5.829	1.00	73.69	C
ATOM	6732	O	PHE	861	27.858	40.459	5.155	1.00	73.69	O
ATOM	6733	N	SER	862	27.581	42.399	6.285	1.00	53.89	N
ATOM	6734	CA	SER	862	26.165	42.395	6.124	1.00	53.89	C
ATOM	6735	CB	SER	862	25.510	43.689	6.639	1.00	53.89	C
ATOM	6736	OG	SER	862	25.713	43.819	8.039	1.00	53.89	O
ATOM	6737	C	SER	862	25.835	42.261	4.671	1.00	53.89	C
ATOM	6738	O	SER	862	25.255	41.262	4.256	1.00	53.89	O
ATOM	6739	N	TYR	863	26.276	43.215	3.833	1.00	71.86	N
ATOM	6740	CA	TYR	863	25.847	43.211	2.462	1.00	71.86	C
ATOM	6741	CB	TYR	863	26.486	44.336	1.625	1.00	71.86	C
ATOM	6742	CG	TYR	863	25.797	45.627	1.909	1.00	71.86	C
ATOM	6743	CD1	TYR	863	25.990	46.306	3.090	1.00	71.86	C
ATOM	6744	CD2	TYR	863	24.966	46.173	0.957	1.00	71.86	C
ATOM	6745	CE1	TYR	863	25.343	47.498	3.321	1.00	71.86	C
ATOM	6746	CE2	TYR	863	24.318	47.363	1.182	1.00	71.86	C
ATOM	6747	CZ	TYR	863	24.504	48.027	2.368	1.00	71.86	C
ATOM	6748	OH	TYR	863	23.840	49.250	2.602	1.00	71.86	O
ATOM	6749	C	TYR	863	26.193	41.931	1.768	1.00	71.86	C
ATOM	6750	O	TYR	863	25.316	41.298	1.182	1.00	71.86	O
ATOM	6751	N	ALA	864	27.457	41.481	1.864	1.00	51.64	N
ATOM	6752	CA	ALA	864	27.875	40.355	1.083	1.00	51.64	C
ATOM	6753	CB	ALA	864	29.327	39.964	1.345	1.00	51.64	C
ATOM	6754	C	ALA	864	27.078	39.144	1.412	1.00	51.64	C
ATOM	6755	O	ALA	864	26.537	38.493	0.520	1.00	51.64	O
ATOM	6756	N	GLY	865	26.936	38.838	2.711	1.00	25.46	N
ATOM	6757	CA	GLY	865	26.270	37.625	3.072	1.00	25.46	C
ATOM	6758	C	GLY	865	24.884	37.692	2.536	1.00	25.46	C
ATOM	6759	O	GLY	865	24.373	36.713	1.993	1.00	25.46	O
ATOM	6760	N	CYS	866	24.249	38.871	2.651	1.00	57.74	N
ATOM	6761	CA	CYS	866	22.888	38.972	2.232	1.00	57.74	C
ATOM	6762	CB	CYS	866	22.282	40.359	2.495	1.00	57.74	C
ATOM	6763	SG	CYS	866	22.125	40.723	4.270	1.00	57.74	S
ATOM	6764	C	CYS	866	22.742	38.673	0.772	1.00	57.74	C
ATOM	6765	O	CYS	866	22.067	37.721	0.390	1.00	57.74	O
ATOM	6766	N	PHE	867	23.439	39.424	-0.093	1.00	86.76	N
ATOM	6767	CA	PHE	867	23.243	39.244	-1.500	1.00	86.76	C
ATOM	6768	CB	PHE	867	23.997	40.277	-2.350	1.00	86.76	C
ATOM	6769	CG	PHE	867	23.232	41.548	-2.190	1.00	86.76	C
ATOM	6770	CD1	PHE	867	22.153	41.805	-3.003	1.00	86.76	C
ATOM	6771	CD2	PHE	867	23.574	42.471	-1.228	1.00	86.76	C
ATOM	6772	CE1	PHE	867	21.431	42.966	-2.872	1.00	86.76	C
ATOM	6773	CE2	PHE	867	22.853	43.636	-1.092	1.00	86.76	C
ATOM	6774	CZ	PHE	867	21.780	43.886	-1.914	1.00	86.76	C
ATOM	6775	C	PHE	867	23.646	37.862	-1.884	1.00	86.76	C
ATOM	6776	O	PHE	867	23.008	37.248	-2.738	1.00	86.76	O
ATOM	6777	N	ARG	868	24.732	37.327	-1.300	1.00	133.75	N
ATOM	6778	CA	ARG	868	25.059	36.015	-1.762	1.00	133.75	C
ATOM	6779	CB	ARG	868	26.448	35.481	-1.382	1.00	133.75	C
ATOM	6780	CG	ARG	868	26.695	35.214	0.093	1.00	133.75	C
ATOM	6781	CD	ARG	868	27.838	34.218	0.278	1.00	133.75	C
ATOM	6782	NE	ARG	868	27.413	32.953	-0.385	1.00	133.75	N
ATOM	6783	CZ	ARG	868	26.744	31.994	0.320	1.00	133.75	C
ATOM	6784	NH1	ARG	868	26.458	32.189	1.640	1.00	133.75	N
ATOM	6785	NH2	ARG	868	26.367	30.838	-0.300	1.00	133.75	N
ATOM	6786	C	ARG	868	24.029	35.017	-1.321	1.00	133.75	C
ATOM	6787	O	ARG	868	23.576	34.193	-2.114	1.00	133.75	O
ATOM	6788	N	PHE	869	23.590	35.089	-0.051	1.00	129.35	N
ATOM	6789	CA	PHE	869	22.675	34.116	0.474	1.00	129.35	C
ATOM	6790	CB	PHE	869	22.338	34.384	1.951	1.00	129.35	C
ATOM	6791	CG	PHE	869	21.605	33.198	2.466	1.00	129.35	C
ATOM	6792	CD1	PHE	869	20.238	33.110	2.347	1.00	129.35	C
ATOM	6793	CD2	PHE	869	22.293	32.169	3.065	1.00	129.35	C
ATOM	6794	CE1	PHE	869	19.568	32.009	2.823	1.00	129.35	C
ATOM	6795	CE2	PHE	869	21.629	31.065	3.544	1.00	129.35	C
ATOM	6796	CZ	PHE	869	20.263	30.986	3.423	1.00	129.35	C
ATOM	6797	C	PHE	869	21.414	34.180	-0.321	1.00	129.35	C
ATOM	6798	O	PHE	869	20.888	33.149	-0.738	1.00	129.35	O
ATOM	6799	N	GLY	870	20.912	35.402	-0.585	1.00	54.87	N
ATOM	6800	CA	GLY	870	19.669	35.530	-1.286	1.00	54.87	C
ATOM	6801	C	GLY	870	19.779	34.876	-2.626	1.00	54.87	C

ATOM	6802	O	GLY	870	18.972	34.018	-2.973	1.00	54.87	O
ATOM	6803	N	ALA	871	20.858	35.166	-3.363	1.00	68.86	N
ATOM	6804	CA	ALA	871	21.026	34.726	-4.716	1.00	68.86	C
ATOM	6805	CB	ALA	871	22.404	35.087	-5.295	1.00	68.86	C
ATOM	6806	C	ALA	871	20.910	33.248	-4.746	1.00	68.86	C
ATOM	6807	O	ALA	871	20.464	32.699	-5.752	1.00	68.86	O
ATOM	6808	N	TYR	872	21.305	32.594	-3.635	1.00	109.72	N
ATOM	6809	CA	TYR	872	21.397	31.166	-3.511	1.00	109.72	C
ATOM	6810	CB	TYR	872	21.404	30.644	-2.064	1.00	109.72	C
ATOM	6811	CG	TYR	872	21.684	29.187	-2.196	1.00	109.72	C
ATOM	6812	CD1	TYR	872	22.961	28.749	-2.467	1.00	109.72	C
ATOM	6813	CD2	TYR	872	20.678	28.261	-2.056	1.00	109.72	C
ATOM	6814	CE1	TYR	872	23.234	27.406	-2.599	1.00	109.72	C
ATOM	6815	CE2	TYR	872	20.944	26.917	-2.187	1.00	109.72	C
ATOM	6816	CZ	TYR	872	22.221	26.488	-2.460	1.00	109.72	C
ATOM	6817	OH	TYR	872	22.492	25.110	-2.596	1.00	109.72	O
ATOM	6818	C	TYR	872	20.339	30.430	-4.294	1.00	109.72	C
ATOM	6819	O	TYR	872	19.161	30.773	-4.263	1.00	109.72	O
ATOM	6820	N	LEU	873	20.791	29.363	-4.991	1.00	180.80	N
ATOM	6821	CA	LEU	873	20.111	28.396	-5.834	1.00	180.80	C
ATOM	6822	CB	LEU	873	19.168	27.485	-5.011	1.00	180.80	C
ATOM	6823	CG	LEU	873	18.718	26.143	-5.651	1.00	180.80	C
ATOM	6824	CD1	LEU	873	17.749	25.410	-4.710	1.00	180.80	C
ATOM	6825	CD2	LEU	873	18.153	26.257	-7.076	1.00	180.80	C
ATOM	6826	C	LEU	873	19.346	28.933	-7.026	1.00	180.80	C
ATOM	6827	O	LEU	873	18.119	28.996	-7.020	1.00	180.80	O
ATOM	6828	N	VAL	874	20.080	29.405	-8.053	1.00	139.66	N
ATOM	6829	CA	VAL	874	19.626	29.811	-9.362	1.00	139.66	C
ATOM	6830	CB	VAL	874	20.418	30.929	-9.955	1.00	139.66	C
ATOM	6831	CG1	VAL	874	20.362	32.127	-8.991	1.00	139.66	C
ATOM	6832	CG2	VAL	874	21.817	30.409	-10.282	1.00	139.66	C
ATOM	6833	C	VAL	874	19.603	28.674	-10.366	1.00	139.66	C
ATOM	6834	O	VAL	874	19.528	28.940	-11.566	1.00	139.66	O
ATOM	6835	N	ALA	875	19.852	27.409	-9.959	1.00	82.74	N
ATOM	6836	CA	ALA	875	19.947	26.338	-10.929	1.00	82.74	C
ATOM	6837	CB	ALA	875	20.424	25.007	-10.322	1.00	82.74	C
ATOM	6838	C	ALA	875	18.634	26.060	-11.629	1.00	82.74	C
ATOM	6839	O	ALA	875	17.717	25.459	-11.079	1.00	82.74	O
ATOM	6840	N	HIS	876	18.580	26.414	-12.928	1.00	160.56	N
ATOM	6841	CA	HIS	876	17.492	26.265	-13.866	1.00	160.56	C
ATOM	6842	ND1	HIS	876	14.768	24.040	-13.803	1.00	160.56	N
ATOM	6843	CG	HIS	876	16.094	24.104	-13.429	1.00	160.56	C
ATOM	6844	CB	HIS	876	17.150	24.799	-14.238	1.00	160.56	C
ATOM	6845	NE2	HIS	876	14.942	22.909	-11.899	1.00	160.56	N
ATOM	6846	CD2	HIS	876	16.180	23.406	-12.262	1.00	160.56	C
ATOM	6847	CE1	HIS	876	14.125	23.316	-12.856	1.00	160.56	C
ATOM	6848	C	HIS	876	16.247	27.020	-13.476	1.00	160.56	C
ATOM	6849	O	HIS	876	15.148	26.673	-13.905	1.00	160.56	O
ATOM	6850	N	LYS	877	16.401	28.131	-12.727	1.00	195.73	N
ATOM	6851	CA	LYS	877	15.318	29.000	-12.327	1.00	195.73	C
ATOM	6852	CB	LYS	877	14.218	29.195	-13.377	1.00	195.73	C
ATOM	6853	CG	LYS	877	13.116	30.120	-12.861	1.00	195.73	C
ATOM	6854	CD	LYS	877	11.994	30.354	-13.863	1.00	195.73	C
ATOM	6855	CE	LYS	877	10.986	29.201	-13.883	1.00	195.73	C
ATOM	6856	NZ	LYS	877	10.910	28.618	-15.240	1.00	195.73	N
ATOM	6857	C	LYS	877	14.601	28.457	-11.127	1.00	195.73	C
ATOM	6858	O	LYS	877	13.727	27.599	-11.247	1.00	195.73	O
ATOM	6859	N	LEU	878	14.905	29.027	-9.944	1.00	167.08	N
ATOM	6860	CA	LEU	878	14.355	28.627	-8.680	1.00	167.08	C
ATOM	6861	CB	LEU	878	15.458	27.939	-7.826	1.00	167.08	C
ATOM	6862	CG	LEU	878	15.133	27.415	-6.406	1.00	167.08	C
ATOM	6863	CD1	LEU	878	15.347	28.470	-5.303	1.00	167.08	C
ATOM	6864	CD2	LEU	878	13.734	26.779	-6.369	1.00	167.08	C
ATOM	6865	C	LEU	878	13.799	29.867	-8.024	1.00	167.08	C
ATOM	6866	O	LEU	878	13.839	30.955	-8.593	1.00	167.08	O
ATOM	6867	N	MET	879	13.335	29.741	-6.768	1.00	201.90	N
ATOM	6868	CA	MET	879	12.666	30.749	-5.999	1.00	201.90	C
ATOM	6869	CB	MET	879	12.254	30.258	-4.594	1.00	201.90	C
ATOM	6870	CG	MET	879	13.390	30.106	-3.582	1.00	201.90	C
ATOM	6871	SD	MET	879	13.912	31.667	-2.817	1.00	201.90	S
ATOM	6872	CE	MET	879	12.370	31.819	-1.870	1.00	201.90	C
ATOM	6873	C	MET	879	13.563	31.946	-5.894	1.00	201.90	C
ATOM	6874	O	MET	879	13.123	33.013	-5.470	1.00	201.90	O
ATOM	6875	N	SER	880	14.869	31.782	-6.178	1.00	93.96	N

ATOM	6876	CA	SER	880	15.771	32.906	-6.161	1.00	93.96	C
ATOM	6877	CB	SER	880	17.244	32.494	-6.029	1.00	93.96	C
ATOM	6878	OG	SER	880	17.622	31.726	-7.162	1.00	93.96	O
ATOM	6879	C	SER	880	15.672	33.692	-7.443	1.00	93.96	C
ATOM	6880	O	SER	880	15.940	33.168	-8.524	1.00	93.96	O
ATOM	6881	N	PHE	881	15.318	35.000	-7.334	1.00	194.41	N
ATOM	6882	CA	PHE	881	15.187	35.872	-8.473	1.00	194.41	C
ATOM	6883	CB	PHE	881	13.938	35.568	-9.331	1.00	194.41	C
ATOM	6884	CG	PHE	881	12.674	35.827	-8.578	1.00	194.41	C
ATOM	6885	CD1	PHE	881	12.330	35.065	-7.487	1.00	194.41	C
ATOM	6886	CD2	PHE	881	11.831	36.850	-8.947	1.00	194.41	C
ATOM	6887	CE1	PHE	881	11.166	35.310	-6.796	1.00	194.41	C
ATOM	6888	CE2	PHE	881	10.667	37.104	-8.265	1.00	194.41	C
ATOM	6889	CZ	PHE	881	10.330	36.329	-7.184	1.00	194.41	C
ATOM	6890	C	PHE	881	15.157	37.309	-7.992	1.00	194.41	C
ATOM	6891	O	PHE	881	15.876	37.691	-7.070	1.00	194.41	O
ATOM	6892	N	GLU	882	14.301	38.139	-8.619	1.00	160.99	N
ATOM	6893	CA	GLU	882	14.165	39.563	-8.426	1.00	160.99	C
ATOM	6894	CB	GLU	882	13.045	40.152	-9.309	1.00	160.99	C
ATOM	6895	CG	GLU	882	13.053	41.681	-9.416	1.00	160.99	C
ATOM	6896	CD	GLU	882	12.511	42.313	-8.136	1.00	160.99	C
ATOM	6897	OE1	GLU	882	11.720	41.644	-7.419	1.00	160.99	O
ATOM	6898	OE2	GLU	882	12.894	43.478	-7.853	1.00	160.99	O
ATOM	6899	C	GLU	882	13.847	39.964	-7.004	1.00	160.99	C
ATOM	6900	O	GLU	882	14.346	40.988	-6.542	1.00	160.99	O
ATOM	6901	N	ASP	883	13.072	39.165	-6.250	1.00	142.65	N
ATOM	6902	CA	ASP	883	12.539	39.513	-4.952	1.00	142.65	C
ATOM	6903	CB	ASP	883	11.888	38.308	-4.249	1.00	142.65	C
ATOM	6904	CG	ASP	883	12.927	37.204	-4.097	1.00	142.65	C
ATOM	6905	OD1	ASP	883	13.607	36.877	-5.106	1.00	142.65	O
ATOM	6906	OD2	ASP	883	13.041	36.654	-2.969	1.00	142.65	O
ATOM	6907	C	ASP	883	13.602	40.086	-4.058	1.00	142.65	C
ATOM	6908	O	ASP	883	13.294	40.850	-3.143	1.00	142.65	O
ATOM	6909	N	VAL	884	14.880	39.770	-4.315	1.00	82.73	N
ATOM	6910	CA	VAL	884	15.971	40.289	-3.540	1.00	82.73	C
ATOM	6911	CB	VAL	884	17.301	39.966	-4.154	1.00	82.73	C
ATOM	6912	CG1	VAL	884	17.480	38.439	-4.124	1.00	82.73	C
ATOM	6913	CG2	VAL	884	17.357	40.560	-5.573	1.00	82.73	C
ATOM	6914	C	VAL	884	15.843	41.790	-3.455	1.00	82.73	C
ATOM	6915	O	VAL	884	16.334	42.405	-2.509	1.00	82.73	O
ATOM	6916	N	LEU	885	15.200	42.435	-4.445	1.00	114.77	N
ATOM	6917	CA	LEU	885	15.024	43.864	-4.395	1.00	114.77	C
ATOM	6918	CB	LEU	885	14.323	44.431	-5.640	1.00	114.77	C
ATOM	6919	CG	LEU	885	15.246	44.525	-6.868	1.00	114.77	C
ATOM	6920	CD1	LEU	885	16.300	45.626	-6.674	1.00	114.77	C
ATOM	6921	CD2	LEU	885	15.879	43.167	-7.208	1.00	114.77	C
ATOM	6922	C	LEU	885	14.212	44.252	-3.192	1.00	114.77	C
ATOM	6923	O	LEU	885	14.454	45.297	-2.588	1.00	114.77	O
ATOM	6924	N	LEU	886	13.194	43.451	-2.833	1.00	128.40	N
ATOM	6925	CA	LEU	886	12.423	43.730	-1.655	1.00	128.40	C
ATOM	6926	CB	LEU	886	11.158	42.864	-1.554	1.00	128.40	C
ATOM	6927	CG	LEU	886	10.099	43.247	-2.605	1.00	128.40	C
ATOM	6928	CD1	LEU	886	10.639	43.076	-4.034	1.00	128.40	C
ATOM	6929	CD2	LEU	886	8.777	42.495	-2.374	1.00	128.40	C
ATOM	6930	C	LEU	886	13.317	43.518	-0.473	1.00	128.40	C
ATOM	6931	O	LEU	886	13.137	44.112	0.588	1.00	128.40	O
ATOM	6932	N	VAL	887	14.312	42.629	-0.605	1.00	55.87	N
ATOM	6933	CA	VAL	887	15.214	42.450	0.497	1.00	55.87	C
ATOM	6934	CB	VAL	887	16.293	41.450	0.205	1.00	55.87	C
ATOM	6935	CG1	VAL	887	17.283	41.443	1.382	1.00	55.87	C
ATOM	6936	CG2	VAL	887	15.630	40.088	-0.059	1.00	55.87	C
ATOM	6937	C	VAL	887	15.869	43.774	0.770	1.00	55.87	C
ATOM	6938	O	VAL	887	16.012	44.188	1.922	1.00	55.87	O
ATOM	6939	N	PHE	888	16.243	44.506	-0.295	1.00	100.15	N
ATOM	6940	CA	PHE	888	16.872	45.781	-0.103	1.00	100.15	C
ATOM	6941	CB	PHE	888	17.208	46.522	-1.410	1.00	100.15	C
ATOM	6942	CG	PHE	888	17.767	47.849	-1.014	1.00	100.15	C
ATOM	6943	CD1	PHE	888	19.114	48.008	-0.782	1.00	100.15	C
ATOM	6944	CD2	PHE	888	16.934	48.934	-0.861	1.00	100.15	C
ATOM	6945	CE1	PHE	888	19.625	49.231	-0.413	1.00	100.15	C
ATOM	6946	CE2	PHE	888	17.438	50.159	-0.492	1.00	100.15	C
ATOM	6947	CZ	PHE	888	18.787	50.310	-0.268	1.00	100.15	C
ATOM	6948	C	PHE	888	15.906	46.623	0.659	1.00	100.15	C
ATOM	6949	O	PHE	888	16.289	47.457	1.478	1.00	100.15	O

ATOM	6950	N	SER	889	14.606	46.423	0.403	1.00133.68	N
ATOM	6951	CA	SER	889	13.626	47.234	1.049	1.00133.68	C
ATOM	6952	CB	SER	889	12.198	46.825	0.663	1.00133.68	C
ATOM	6953	OG	SER	889	11.632	45.928	1.597	1.00133.68	O
ATOM	6954	C	SER	889	13.748	47.117	2.552	1.00133.68	C
ATOM	6955	O	SER	889	13.693	48.116	3.266	1.00133.68	O
ATOM	6956	N	ALA	890	13.884	45.889	3.087	1.00 77.91	N
ATOM	6957	CA	ALA	890	13.979	45.661	4.510	1.00 77.91	C
ATOM	6958	CB	ALA	890	13.825	44.174	4.866	1.00 77.91	C
ATOM	6959	C	ALA	890	15.265	46.182	5.097	1.00 77.91	C
ATOM	6960	O	ALA	890	15.290	46.653	6.236	1.00 77.91	O
ATOM	6961	N	VAL	891	16.391	46.053	4.370	1.00112.76	N
ATOM	6962	CA	VAL	891	17.635	46.529	4.912	1.00112.76	C
ATOM	6963	CB	VAL	891	18.839	46.169	4.080	1.00112.76	C
ATOM	6964	CG1	VAL	891	19.015	44.641	4.100	1.00112.76	C
ATOM	6965	CG2	VAL	891	18.662	46.741	2.664	1.00112.76	C
ATOM	6966	C	VAL	891	17.556	48.020	5.022	1.00112.76	C
ATOM	6967	O	VAL	891	17.896	48.602	6.054	1.00112.76	O
ATOM	6968	N	VAL	892	17.056	48.671	3.955	1.00135.68	N
ATOM	6969	CA	VAL	892	16.931	50.093	3.935	1.00135.68	C
ATOM	6970	CB	VAL	892	16.517	50.662	2.598	1.00135.68	C
ATOM	6971	CG1	VAL	892	15.088	50.232	2.247	1.00135.68	C
ATOM	6972	CG2	VAL	892	16.706	52.186	2.647	1.00135.68	C
ATOM	6973	C	VAL	892	15.945	50.466	4.995	1.00135.68	C
ATOM	6974	O	VAL	892	15.932	51.595	5.486	1.00135.68	O
ATOM	6975	N	PHE	893	15.049	49.533	5.360	1.00111.19	N
ATOM	6976	CA	PHE	893	14.116	49.898	6.383	1.00111.19	C
ATOM	6977	CB	PHE	893	13.047	48.843	6.713	1.00111.19	C
ATOM	6978	CG	PHE	893	12.180	48.686	5.515	1.00111.19	C
ATOM	6979	CD1	PHE	893	11.754	49.787	4.810	1.00111.19	C
ATOM	6980	CD2	PHE	893	11.736	47.444	5.137	1.00111.19	C
ATOM	6981	CE1	PHE	893	10.946	49.642	3.709	1.00111.19	C
ATOM	6982	CE2	PHE	893	10.926	47.290	4.039	1.00111.19	C
ATOM	6983	CZ	PHE	893	10.534	48.390	3.318	1.00111.19	C
ATOM	6984	C	PHE	893	14.840	50.205	7.660	1.00111.19	C
ATOM	6985	O	PHE	893	14.637	51.266	8.252	1.00111.19	O
ATOM	6986	N	GLY	894	15.761	49.317	8.084	1.00 53.40	N
ATOM	6987	CA	GLY	894	16.424	49.490	9.349	1.00 53.40	C
ATOM	6988	C	GLY	894	17.096	50.824	9.333	1.00 53.40	C
ATOM	6989	O	GLY	894	17.074	51.577	10.309	1.00 53.40	O
ATOM	6990	N	ALA	895	17.674	51.171	8.177	1.00 54.00	N
ATOM	6991	CA	ALA	895	18.351	52.420	8.055	1.00 54.00	C
ATOM	6992	CB	ALA	895	18.949	52.639	6.655	1.00 54.00	C
ATOM	6993	C	ALA	895	17.378	53.538	8.304	1.00 54.00	C
ATOM	6994	O	ALA	895	17.731	54.545	8.915	1.00 54.00	O
ATOM	6995	N	MET	896	16.117	53.394	7.851	1.00134.98	N
ATOM	6996	CA	MET	896	15.177	54.482	7.948	1.00134.98	C
ATOM	6997	CB	MET	896	13.791	54.152	7.353	1.00134.98	C
ATOM	6998	CG	MET	896	12.873	53.359	8.288	1.00134.98	C
ATOM	6999	SD	MET	896	11.411	52.618	7.502	1.00134.98	S
ATOM	7000	CE	MET	896	10.420	54.139	7.461	1.00134.98	C
ATOM	7001	C	MET	896	14.968	54.883	9.387	1.00134.98	C
ATOM	7002	O	MET	896	14.993	56.068	9.724	1.00134.98	O
ATOM	7003	N	ALA	897	14.788	53.898	10.283	1.00 71.52	N
ATOM	7004	CA	ALA	897	14.531	54.142	11.676	1.00 71.52	C
ATOM	7005	CB	ALA	897	14.291	52.845	12.467	1.00 71.52	C
ATOM	7006	C	ALA	897	15.714	54.828	12.272	1.00 71.52	C
ATOM	7007	O	ALA	897	15.583	55.654	13.176	1.00 71.52	O
ATOM	7008	N	VAL	898	16.912	54.492	11.768	1.00 65.87	N
ATOM	7009	CA	VAL	898	18.113	55.045	12.319	1.00 65.87	C
ATOM	7010	CB	VAL	898	19.342	54.665	11.544	1.00 65.87	C
ATOM	7011	CG1	VAL	898	20.546	55.403	12.152	1.00 65.87	C
ATOM	7012	CG2	VAL	898	19.483	53.133	11.542	1.00 65.87	C
ATOM	7013	C	VAL	898	17.997	56.533	12.247	1.00 65.87	C
ATOM	7014	O	VAL	898	18.355	57.250	13.182	1.00 65.87	O
ATOM	7015	N	GLY	899	17.422	57.030	11.142	1.00 53.75	N
ATOM	7016	CA	GLY	899	17.328	58.445	10.958	1.00 53.75	C
ATOM	7017	C	GLY	899	16.572	59.045	12.112	1.00 53.75	C
ATOM	7018	O	GLY	899	16.915	60.126	12.589	1.00 53.75	O
ATOM	7019	N	GLN	900	15.523	58.356	12.598	1.00153.92	N
ATOM	7020	CA	GLN	900	14.632	58.917	13.586	1.00153.92	C
ATOM	7021	CB	GLN	900	13.491	57.948	13.941	1.00153.92	C
ATOM	7022	CG	GLN	900	12.718	57.423	12.731	1.00153.92	C
ATOM	7023	CD	GLN	900	11.971	58.576	12.086	1.00153.92	C

ATOM	7024	OE1	GLN	900	11.590	58.498	10.920	1.00153.92	O
ATOM	7025	NE2	GLN	900	11.752	59.672	12.859	1.00153.92	N
ATOM	7026	C	GLN	900	15.303	59.225	14.900	1.00153.92	C
ATOM	7027	O	GLN	900	15.197	60.338	15.419	1.00153.92	O
ATOM	7028	N	VAL	901	16.035	58.253	15.474	1.00116.87	N
ATOM	7029	CA	VAL	901	16.604	58.476	16.780	1.00116.87	C
ATOM	7030	CB	VAL	901	17.379	57.298	17.277	1.00116.87	C
ATOM	7031	CG1	VAL	901	18.218	57.767	18.466	1.00116.87	C
ATOM	7032	CG2	VAL	901	16.393	56.180	17.652	1.00116.87	C
ATOM	7033	C	VAL	901	17.547	59.615	16.692	1.00116.87	C
ATOM	7034	O	VAL	901	17.591	60.490	17.560	1.00116.87	O
ATOM	7035	N	SER	902	18.330	59.604	15.609	1.00 84.60	N
ATOM	7036	CA	SER	902	19.344	60.577	15.375	1.00 84.60	C
ATOM	7037	CB	SER	902	20.337	60.124	14.292	1.00 84.60	C
ATOM	7038	OG	SER	902	21.001	58.940	14.709	1.00 84.60	O
ATOM	7039	C	SER	902	18.739	61.880	14.917	1.00 84.60	C
ATOM	7040	O	SER	902	19.485	62.799	14.586	1.00 84.60	O
ATOM	7041	N	SER	903	17.395	62.020	14.848	1.00118.80	N
ATOM	7042	CA	SER	903	16.891	63.256	14.293	1.00118.80	C
ATOM	7043	CB	SER	903	16.425	63.095	12.836	1.00118.80	C
ATOM	7044	OG	SER	903	15.347	62.174	12.772	1.00118.80	O
ATOM	7045	C	SER	903	15.726	63.792	15.081	1.00118.80	C
ATOM	7046	O	SER	903	15.338	63.229	16.104	1.00118.80	O
ATOM	7047	N	PHE	904	15.191	64.961	14.632	1.00188.87	N
ATOM	7048	CA	PHE	904	14.042	65.597	15.236	1.00188.87	C
ATOM	7049	CB	PHE	904	12.840	64.672	15.541	1.00188.87	C
ATOM	7050	CG	PHE	904	11.843	64.763	14.432	1.00188.87	C
ATOM	7051	CD1	PHE	904	10.977	65.833	14.418	1.00188.87	C
ATOM	7052	CD2	PHE	904	11.734	63.817	13.437	1.00188.87	C
ATOM	7053	CE1	PHE	904	10.030	65.976	13.433	1.00188.87	C
ATOM	7054	CE2	PHE	904	10.784	63.956	12.447	1.00188.87	C
ATOM	7055	CZ	PHE	904	9.932	65.035	12.440	1.00188.87	C
ATOM	7056	C	PHE	904	14.402	66.327	16.497	1.00188.87	C
ATOM	7057	O	PHE	904	15.541	66.733	16.721	1.00188.87	O
ATOM	7058	N	ALA	905	13.373	66.477	17.357	1.00105.14	N
ATOM	7059	CA	ALA	905	13.334	67.183	18.611	1.00105.14	C
ATOM	7060	CB	ALA	905	12.027	66.841	19.361	1.00105.14	C
ATOM	7061	C	ALA	905	14.518	66.766	19.429	1.00105.14	C
ATOM	7062	O	ALA	905	15.176	65.780	19.093	1.00105.14	O
ATOM	7063	N	PRO	906	14.844	67.550	20.450	1.00142.78	N
ATOM	7064	CA	PRO	906	15.959	67.248	21.305	1.00142.78	C
ATOM	7065	CD	PRO	906	13.879	68.413	21.120	1.00142.78	C
ATOM	7066	CB	PRO	906	15.866	68.234	22.467	1.00142.78	C
ATOM	7067	CG	PRO	906	14.361	68.522	22.572	1.00142.78	C
ATOM	7068	C	PRO	906	15.718	65.841	21.747	1.00142.78	C
ATOM	7069	O	PRO	906	14.549	65.487	21.861	1.00142.78	O
ATOM	7070	N	ASP	907	16.773	65.050	22.082	1.00226.07	N
ATOM	7071	CA	ASP	907	16.772	63.637	22.438	1.00226.07	C
ATOM	7072	CB	ASP	907	18.177	63.093	22.737	1.00226.07	C
ATOM	7073	CG	ASP	907	18.111	61.573	22.636	1.00226.07	C
ATOM	7074	OD1	ASP	907	17.000	61.042	22.367	1.00226.07	O
ATOM	7075	OD2	ASP	907	19.173	60.921	22.822	1.00226.07	O
ATOM	7076	C	ASP	907	15.918	63.456	23.679	1.00226.07	C
ATOM	7077	O	ASP	907	15.942	62.436	24.359	1.00226.07	O
ATOM	7078	N	TYR	908	15.329	64.554	24.143	1.00276.32	N
ATOM	7079	CA	TYR	908	14.496	64.690	25.279	1.00276.32	C
ATOM	7080	CB	TYR	908	14.111	63.444	26.115	1.00276.32	C
ATOM	7081	CG	TYR	908	12.827	62.863	25.628	1.00276.32	C
ATOM	7082	CD1	TYR	908	11.674	63.591	25.808	1.00276.32	C
ATOM	7083	CD2	TYR	908	12.739	61.614	25.054	1.00276.32	C
ATOM	7084	CE1	TYR	908	10.459	63.104	25.394	1.00276.32	C
ATOM	7085	CE2	TYR	908	11.523	61.120	24.637	1.00276.32	C
ATOM	7086	CZ	TYR	908	10.381	61.866	24.803	1.00276.32	C
ATOM	7087	OH	TYR	908	9.132	61.364	24.378	1.00276.32	O
ATOM	7088	C	TYR	908	15.467	65.457	26.066	1.00276.32	C
ATOM	7089	O	TYR	908	15.972	66.481	25.610	1.00276.32	O
ATOM	7090	N	ALA	909	15.749	64.970	27.280	1.00279.03	N
ATOM	7091	CA	ALA	909	16.879	65.533	27.946	1.00279.03	C
ATOM	7092	CB	ALA	909	18.133	65.594	27.059	1.00279.03	C
ATOM	7093	C	ALA	909	16.531	66.900	28.386	1.00279.03	C
ATOM	7094	O	ALA	909	15.593	67.120	29.136	1.00279.03	O
ATOM	7095	N	LYS	910	17.280	67.863	27.852	1.00254.80	N
ATOM	7096	CA	LYS	910	17.226	69.262	28.153	1.00254.80	C
ATOM	7097	CB	LYS	910	17.874	69.973	26.971	1.00254.80	C



ATOM	7098	CG	LYS	910	19.083	69.168	26.495	1.00254.80	C
ATOM	7099	CD	LYS	910	19.350	69.269	24.995	1.00254.80	C
ATOM	7100	CE	LYS	910	18.374	68.440	24.151	1.00254.80	C
ATOM	7101	NZ	LYS	910	18.406	67.016	24.546	1.00254.80	N
ATOM	7102	C	LYS	910	15.779	69.640	28.101	1.00254.80	C
ATOM	7103	O	LYS	910	15.332	70.495	28.864	1.00254.80	O
ATOM	7104	N	ALA	911	15.010	69.030	27.177	1.00 83.11	N
ATOM	7105	CA	ALA	911	13.623	69.397	27.102	1.00 83.11	C
ATOM	7106	CB	ALA	911	12.886	68.711	25.938	1.00 83.11	C
ATOM	7107	C	ALA	911	12.917	69.019	28.379	1.00 83.11	C
ATOM	7108	O	ALA	911	12.198	69.817	28.977	1.00 83.11	O
ATOM	7109	N	LYS	912	13.132	67.787	28.862	1.00130.03	N
ATOM	7110	CA	LYS	912	12.514	67.332	30.073	1.00130.03	C
ATOM	7111	CB	LYS	912	12.878	65.875	30.409	1.00130.03	C
ATOM	7112	CG	LYS	912	12.065	65.317	31.577	1.00130.03	C
ATOM	7113	CD	LYS	912	12.150	63.797	31.720	1.00130.03	C
ATOM	7114	CE	LYS	912	13.294	63.325	32.620	1.00130.03	C
ATOM	7115	NZ	LYS	912	13.296	61.847	32.704	1.00130.03	N
ATOM	7116	C	LYS	912	12.938	68.195	31.235	1.00130.03	C
ATOM	7117	O	LYS	912	12.105	68.593	32.051	1.00130.03	O
ATOM	7118	N	ILE	913	14.236	68.541	31.344	1.00141.43	N
ATOM	7119	CA	ILE	913	14.644	69.321	32.490	1.00141.43	C
ATOM	7120	CB	ILE	913	16.116	69.610	32.537	1.00141.43	C
ATOM	7121	CG1	ILE	913	16.565	70.469	31.346	1.00141.43	C
ATOM	7122	CG2	ILE	913	16.845	68.262	32.641	1.00141.43	C
ATOM	7123	CD1	ILE	913	17.956	71.071	31.541	1.00141.43	C
ATOM	7124	C	ILE	913	13.914	70.616	32.451	1.00141.43	C
ATOM	7125	O	ILE	913	13.380	71.090	33.456	1.00141.43	O
ATOM	7126	N	SER	914	13.844	71.218	31.260	1.00 96.04	N
ATOM	7127	CA	SER	914	13.182	72.482	31.209	1.00 96.04	C
ATOM	7128	CB	SER	914	13.269	73.134	29.817	1.00 96.04	C
ATOM	7129	OG	SER	914	14.623	73.413	29.487	1.00 96.04	O
ATOM	7130	C	SER	914	11.732	72.258	31.552	1.00 96.04	C
ATOM	7131	O	SER	914	11.096	73.115	32.166	1.00 96.04	O
ATOM	7132	N	ALA	915	11.161	71.090	31.180	1.00 80.48	N
ATOM	7133	CA	ALA	915	9.764	70.874	31.459	1.00 80.48	C
ATOM	7134	CB	ALA	915	9.247	69.526	30.922	1.00 80.48	C
ATOM	7135	C	ALA	915	9.511	70.885	32.947	1.00 80.48	C
ATOM	7136	O	ALA	915	8.609	71.572	33.438	1.00 80.48	O
ATOM	7137	N	ALA	916	10.354	70.169	33.717	1.00 65.89	N
ATOM	7138	CA	ALA	916	10.126	70.042	35.129	1.00 65.89	C
ATOM	7139	CB	ALA	916	11.231	69.235	35.830	1.00 65.89	C
ATOM	7140	C	ALA	916	10.106	71.408	35.732	1.00 65.89	C
ATOM	7141	O	ALA	916	9.219	71.736	36.521	1.00 65.89	O
ATOM	7142	N	HIS	917	11.057	72.267	35.332	1.00158.40	N
ATOM	7143	CA	HIS	917	11.115	73.558	35.951	1.00158.40	C
ATOM	7144	ND1	HIS	917	14.556	73.548	35.431	1.00158.40	N
ATOM	7145	CG	HIS	917	13.565	74.344	35.956	1.00158.40	C
ATOM	7146	CB	HIS	917	12.192	74.494	35.376	1.00158.40	C
ATOM	7147	NE2	HIS	917	15.431	74.563	37.206	1.00158.40	N
ATOM	7148	CD2	HIS	917	14.115	74.956	37.039	1.00158.40	C
ATOM	7149	CE1	HIS	917	15.650	73.717	36.217	1.00158.40	C
ATOM	7150	C	HIS	917	9.837	74.310	35.753	1.00158.40	C
ATOM	7151	O	HIS	917	9.200	74.751	36.709	1.00158.40	O
ATOM	7152	N	ILE	918	9.390	74.424	34.497	1.00152.80	N
ATOM	7153	CA	ILE	918	8.262	75.252	34.194	1.00152.80	C
ATOM	7154	CB	ILE	918	7.970	75.267	32.715	1.00152.80	C
ATOM	7155	CG1	ILE	918	7.010	76.401	32.316	1.00152.80	C
ATOM	7156	CG2	ILE	918	7.493	73.864	32.315	1.00152.80	C
ATOM	7157	CD1	ILE	918	5.576	76.233	32.806	1.00152.80	C
ATOM	7158	C	ILE	918	7.088	74.731	34.955	1.00152.80	C
ATOM	7159	O	ILE	918	6.211	75.496	35.355	1.00152.80	O
ATOM	7160	N	ILE	919	7.044	73.402	35.149	1.00136.20	N
ATOM	7161	CA	ILE	919	5.953	72.741	35.810	1.00136.20	C
ATOM	7162	CB	ILE	919	6.180	71.255	35.908	1.00136.20	C
ATOM	7163	CG1	ILE	919	6.255	70.588	34.524	1.00136.20	C
ATOM	7164	CG2	ILE	919	5.082	70.676	36.814	1.00136.20	C
ATOM	7165	CD1	ILE	919	4.935	70.608	33.757	1.00136.20	C
ATOM	7166	C	ILE	919	5.801	73.185	37.232	1.00136.20	C
ATOM	7167	O	ILE	919	4.703	73.558	37.647	1.00136.20	O
ATOM	7168	N	MET	920	6.896	73.189	38.018	1.00119.36	N
ATOM	7169	CA	MET	920	6.737	73.505	39.415	1.00119.36	C
ATOM	7170	CB	MET	920	8.067	73.515	40.197	1.00119.36	C
ATOM	7171	CG	MET	920	8.671	72.138	40.493	1.00119.36	C

ATOM	7172	SD	MET	920	7.788	71.186	41.769	1.00119.36	S
ATOM	7173	CE	MET	920	9.195	70.126	42.212	1.00119.36	C
ATOM	7174	C	MET	920	6.168	74.892	39.537	1.00119.36	C
ATOM	7175	O	MET	920	5.261	75.152	40.330	1.00119.36	O
ATOM	7176	N	ILE	921	6.685	75.820	38.718	1.00137.39	N
ATOM	7177	CA	ILE	921	6.289	77.204	38.780	1.00137.39	C
ATOM	7178	CB	ILE	921	7.143	78.080	37.899	1.00137.39	C
ATOM	7179	CG1	ILE	921	8.580	78.179	38.455	1.00137.39	C
ATOM	7180	CG2	ILE	921	6.447	79.446	37.766	1.00137.39	C
ATOM	7181	CD1	ILE	921	9.370	76.871	38.438	1.00137.39	C
ATOM	7182	C	ILE	921	4.860	77.406	38.408	1.00137.39	C
ATOM	7183	O	ILE	921	4.162	78.259	38.961	1.00137.39	O
ATOM	7184	N	ILE	922	4.408	76.661	37.397	1.00 90.24	N
ATOM	7185	CA	ILE	922	3.064	76.794	36.943	1.00 90.24	C
ATOM	7186	CB	ILE	922	2.808	76.109	35.627	1.00 90.24	C
ATOM	7187	CG1	ILE	922	1.460	76.569	35.044	1.00 90.24	C
ATOM	7188	CG2	ILE	922	2.931	74.592	35.826	1.00 90.24	C
ATOM	7189	CD1	ILE	922	1.229	76.150	33.591	1.00 90.24	C
ATOM	7190	C	ILE	922	2.099	76.293	37.963	1.00 90.24	C
ATOM	7191	O	ILE	922	0.969	76.767	38.020	1.00 90.24	O
ATOM	7192	N	GLU	923	2.479	75.283	38.767	1.00146.77	N
ATOM	7193	CA	GLU	923	1.477	74.707	39.618	1.00146.77	C
ATOM	7194	CB	GLU	923	2.015	73.496	40.399	1.00146.77	C
ATOM	7195	CG	GLU	923	2.656	72.426	39.494	1.00146.77	C
ATOM	7196	CD	GLU	923	1.685	71.901	38.427	1.00146.77	C
ATOM	7197	OE1	GLU	923	0.811	72.665	37.941	1.00146.77	O
ATOM	7198	OE2	GLU	923	1.829	70.702	38.067	1.00146.77	O
ATOM	7199	C	GLU	923	0.888	75.725	40.558	1.00146.77	C
ATOM	7200	O	GLU	923	-0.292	76.051	40.432	1.00146.77	O
ATOM	7201	N	LYS	924	1.724	76.318	41.438	1.00238.59	N
ATOM	7202	CA	LYS	924	1.382	77.332	42.421	1.00238.59	C
ATOM	7203	CB	LYS	924	1.801	78.746	41.975	1.00238.59	C
ATOM	7204	CG	LYS	924	1.251	79.132	40.603	1.00238.59	C
ATOM	7205	CD	LYS	924	-0.262	79.335	40.595	1.00238.59	C
ATOM	7206	CE	LYS	924	-0.836	79.628	39.209	1.00238.59	C
ATOM	7207	NZ	LYS	924	-1.151	78.357	38.523	1.00238.59	N
ATOM	7208	C	LYS	924	-0.066	77.347	42.924	1.00238.59	C
ATOM	7209	O	LYS	924	-0.776	76.343	42.872	1.00238.59	O
ATOM	7210	N	THR	925	-0.489	78.474	43.579	1.00190.33	N
ATOM	7211	CA	THR	925	-1.846	78.668	44.075	1.00190.33	C
ATOM	7212	CB	THR	925	-1.984	78.284	45.523	1.00190.33	C
ATOM	7213	OG1	THR	925	-3.310	78.518	45.971	1.00190.33	O
ATOM	7214	CG2	THR	925	-0.954	79.052	46.374	1.00190.33	C
ATOM	7215	C	THR	925	-2.280	80.120	43.906	1.00190.33	C
ATOM	7216	O	THR	925	-1.917	80.984	44.703	1.00190.33	O
ATOM	7217	N	PRO	926	-3.156	80.402	42.964	1.00122.32	N
ATOM	7218	CA	PRO	926	-3.559	81.741	42.574	1.00122.32	C
ATOM	7219	CD	PRO	926	-3.919	79.368	42.284	1.00122.32	C
ATOM	7220	CB	PRO	926	-4.765	81.559	41.655	1.00122.32	C
ATOM	7221	CG	PRO	926	-4.645	80.109	41.147	1.00122.32	C
ATOM	7222	C	PRO	926	-3.854	82.650	43.716	1.00122.32	C
ATOM	7223	O	PRO	926	-3.410	83.795	43.722	1.00122.32	O
ATOM	7224	N	LEU	927	-4.666	82.188	44.657	1.00169.54	N
ATOM	7225	CA	LEU	927	-4.905	82.889	45.874	1.00169.54	C
ATOM	7226	CB	LEU	927	-3.626	83.365	46.574	1.00169.54	C
ATOM	7227	CG	LEU	927	-3.947	83.981	47.946	1.00169.54	C
ATOM	7228	CD1	LEU	927	-4.476	82.912	48.914	1.00169.54	C
ATOM	7229	CD2	LEU	927	-2.757	84.755	48.516	1.00169.54	C
ATOM	7230	C	LEU	927	-5.787	84.105	45.713	1.00169.54	C
ATOM	7231	O	LEU	927	-6.579	84.358	46.617	1.00169.54	O
ATOM	7232	N	ILE	928	-5.690	84.903	44.611	1.00215.53	N
ATOM	7233	CA	ILE	928	-6.570	86.057	44.499	1.00215.53	C
ATOM	7234	CB	ILE	928	-6.073	87.276	45.250	1.00215.53	C
ATOM	7235	CG1	ILE	928	-4.635	87.667	44.844	1.00215.53	C
ATOM	7236	CG2	ILE	928	-6.273	87.069	46.755	1.00215.53	C
ATOM	7237	CD1	ILE	928	-3.556	86.673	45.269	1.00215.53	C
ATOM	7238	C	ILE	928	-6.796	86.522	43.081	1.00215.53	C
ATOM	7239	O	ILE	928	-6.356	87.618	42.721	1.00215.53	O
ATOM	7240	N	ASP	929	-7.456	85.722	42.216	1.00156.09	N
ATOM	7241	CA	ASP	929	-7.755	86.243	40.905	1.00156.09	C
ATOM	7242	CB	ASP	929	-8.025	85.134	39.876	1.00156.09	C
ATOM	7243	CG	ASP	929	-6.689	84.576	39.417	1.00156.09	C
ATOM	7244	OD1	ASP	929	-5.939	85.328	38.738	1.00156.09	O
ATOM	7245	OD2	ASP	929	-6.396	83.397	39.747	1.00156.09	O

ATOM	7246	C	ASP	929	-8.952	87.142	40.887	1.00156.09	C
ATOM	7247	O	ASP	929	-8.859	88.364	40.774	1.00156.09	O
ATOM	7248	N	SER	930	-10.133	86.528	41.080	1.00157.26	N
ATOM	7249	CA	SER	930	-11.353	87.269	41.010	1.00157.26	C
ATOM	7250	CB	SER	930	-12.109	87.138	39.681	1.00157.26	C
ATOM	7251	OG	SER	930	-12.757	85.877	39.624	1.00157.26	O
ATOM	7252	C	SER	930	-12.214	86.653	42.038	1.00157.26	C
ATOM	7253	O	SER	930	-11.946	85.532	42.459	1.00157.26	O
ATOM	7254	N	TYR	931	-13.217	87.406	42.517	1.00122.54	N
ATOM	7255	CA	TYR	931	-14.123	86.914	43.506	1.00122.54	C
ATOM	7256	CB	TYR	931	-13.571	86.981	44.947	1.00122.54	C
ATOM	7257	CG	TYR	931	-12.338	86.155	45.065	1.00122.54	C
ATOM	7258	CD1	TYR	931	-12.425	84.783	45.062	1.00122.54	C
ATOM	7259	CD2	TYR	931	-11.097	86.743	45.168	1.00122.54	C
ATOM	7260	CE1	TYR	931	-11.297	84.006	45.168	1.00122.54	C
ATOM	7261	CE2	TYR	931	-9.963	85.972	45.275	1.00122.54	C
ATOM	7262	CZ	TYR	931	-10.064	84.601	45.275	1.00122.54	C
ATOM	7263	OH	TYR	931	-8.908	83.801	45.385	1.00122.54	O
ATOM	7264	C	TYR	931	-15.249	87.897	43.513	1.00122.54	C
ATOM	7265	O	TYR	931	-15.210	88.886	42.782	1.00122.54	O
ATOM	7266	N	SER	932	-16.349	87.586	44.227	1.00 87.49	N
ATOM	7267	CA	SER	932	-17.339	88.591	44.499	1.00 87.49	C
ATOM	7268	CB	SER	932	-18.738	87.986	44.704	1.00 87.49	C
ATOM	7269	OG	SER	932	-19.687	89.008	44.968	1.00 87.49	O
ATOM	7270	C	SER	932	-16.953	89.312	45.761	1.00 87.49	C
ATOM	7271	O	SER	932	-16.568	90.481	45.760	1.00 87.49	O
ATOM	7272	N	THR	933	-17.124	88.581	46.891	1.00107.80	N
ATOM	7273	CA	THR	933	-16.807	88.953	48.241	1.00107.80	C
ATOM	7274	CB	THR	933	-15.453	88.490	48.707	1.00107.80	C
ATOM	7275	OG1	THR	933	-14.453	88.805	47.757	1.00107.80	O
ATOM	7276	CG2	THR	933	-15.510	86.968	48.919	1.00107.80	C
ATOM	7277	C	THR	933	-17.092	90.395	48.464	1.00107.80	C
ATOM	7278	O	THR	933	-16.423	91.068	49.249	1.00107.80	O
ATOM	7279	N	GLU	934	-18.167	90.863	47.804	1.00236.09	N
ATOM	7280	CA	GLU	934	-18.624	92.219	47.821	1.00236.09	C
ATOM	7281	CB	GLU	934	-17.520	93.275	48.073	1.00236.09	C
ATOM	7282	CG	GLU	934	-16.275	93.174	47.186	1.00236.09	C
ATOM	7283	CD	GLU	934	-16.497	94.007	45.934	1.00236.09	C
ATOM	7284	OE1	GLU	934	-16.278	95.246	46.000	1.00236.09	O
ATOM	7285	OE2	GLU	934	-16.909	93.416	44.901	1.00236.09	O
ATOM	7286	C	GLU	934	-19.253	92.430	46.487	1.00236.09	C
ATOM	7287	O	GLU	934	-19.600	91.459	45.823	1.00236.09	O
ATOM	7288	N	GLY	935	-19.292	93.680	45.994	1.00174.58	N
ATOM	7289	CA	GLY	935	-20.048	94.025	44.827	1.00174.58	C
ATOM	7290	C	GLY	935	-19.940	95.508	44.750	1.00174.58	C
ATOM	7291	O	GLY	935	-20.622	96.174	43.973	1.00174.58	O
ATOM	7292	N	LEU	936	-19.048	96.051	45.599	1.00168.94	N
ATOM	7293	CA	LEU	936	-18.767	97.457	45.651	1.00168.94	C
ATOM	7294	CB	LEU	936	-18.095	98.040	44.393	1.00168.94	C
ATOM	7295	CG	LEU	936	-17.422	99.426	44.593	1.00168.94	C
ATOM	7296	CD1	LEU	936	-17.130	100.098	43.244	1.00168.94	C
ATOM	7297	CD2	LEU	936	-18.119	100.351	45.607	1.00168.94	C
ATOM	7298	C	LEU	936	-20.076	98.154	45.797	1.00168.94	C
ATOM	7299	O	LEU	936	-20.424	99.037	45.016	1.00168.94	O
ATOM	7300	N	MET	937	-20.852	97.768	46.820	1.00133.96	N
ATOM	7301	CA	MET	937	-22.137	98.370	47.005	1.00133.96	C
ATOM	7302	CB	MET	937	-22.821	97.858	48.280	1.00133.96	C
ATOM	7303	CG	MET	937	-23.271	96.400	48.155	1.00133.96	C
ATOM	7304	SD	MET	937	-21.934	95.211	47.814	1.00133.96	S
ATOM	7305	CE	MET	937	-21.000	95.502	49.342	1.00133.96	C
ATOM	7306	C	MET	937	-21.964	99.852	47.126	1.00133.96	C
ATOM	7307	O	MET	937	-21.044	100.332	47.786	1.00133.96	O
ATOM	7308	N	PRO	938	-22.804	100.606	46.454	1.00167.61	N
ATOM	7309	CA	PRO	938	-22.716	102.028	46.586	1.00167.61	C
ATOM	7310	CD	PRO	938	-23.402	100.205	45.191	1.00167.61	C
ATOM	7311	CB	PRO	938	-23.694	102.601	45.569	1.00167.61	C
ATOM	7312	CG	PRO	938	-23.718	101.527	44.462	1.00167.61	C
ATOM	7313	C	PRO	938	-23.052	102.261	48.009	1.00167.61	C
ATOM	7314	O	PRO	938	-24.239	102.272	48.332	1.00167.61	O
ATOM	7315	N	ASN	939	-22.035	102.514	48.853	1.00281.93	N
ATOM	7316	CA	ASN	939	-22.312	102.523	50.258	1.00281.93	C
ATOM	7317	CB	ASN	939	-23.130	101.275	50.613	1.00281.93	C
ATOM	7318	CG	ASN	939	-23.246	101.109	52.104	1.00281.93	C
ATOM	7319	OD1	ASN	939	-23.385	99.986	52.581	1.00281.93	O

ATOM	7320	ND2	ASN	939	-23.190	102.236	52.861	1.00281.93	N
ATOM	7321	C	ASN	939	-20.996	102.345	50.943	1.00281.93	C
ATOM	7322	O	ASN	939	-20.686	102.988	51.944	1.00281.93	O
ATOM	7323	N	THR	940	-20.175	101.476	50.327	1.00180.20	N
ATOM	7324	CA	THR	940	-18.915	100.952	50.768	1.00180.20	C
ATOM	7325	CB	THR	940	-18.303	99.975	49.806	1.00180.20	C
ATOM	7326	OG1	THR	940	-17.218	99.300	50.427	1.00180.20	O
ATOM	7327	CG2	THR	940	-17.798	100.744	48.571	1.00180.20	C
ATOM	7328	C	THR	940	-17.939	102.068	50.904	1.00180.20	C
ATOM	7329	O	THR	940	-16.795	101.854	51.292	1.00180.20	O
ATOM	7330	N	LEU	941	-18.350	103.270	50.493	1.00102.26	N
ATOM	7331	CA	LEU	941	-17.559	104.465	50.446	1.00102.26	C
ATOM	7332	CB	LEU	941	-18.356	105.632	49.857	1.00102.26	C
ATOM	7333	CG	LEU	941	-18.792	105.371	48.407	1.00102.26	C
ATOM	7334	CD1	LEU	941	-19.702	106.494	47.907	1.00102.26	C
ATOM	7335	CD2	LEU	941	-17.588	105.126	47.483	1.00102.26	C
ATOM	7336	C	LEU	941	-17.042	104.922	51.786	1.00102.26	C
ATOM	7337	O	LEU	941	-16.042	105.638	51.812	1.00102.26	O
ATOM	7338	N	GLU	942	-17.690	104.576	52.924	1.00120.61	N
ATOM	7339	CA	GLU	942	-17.293	105.172	54.186	1.00120.61	C
ATOM	7340	CB	GLU	942	-18.053	104.583	55.386	1.00120.61	C
ATOM	7341	CG	GLU	942	-19.473	105.132	55.518	1.00120.61	C
ATOM	7342	CD	GLU	942	-19.348	106.518	56.135	1.00120.61	C
ATOM	7343	OE1	GLU	942	-19.065	106.591	57.360	1.00120.61	O
ATOM	7344	OE2	GLU	942	-19.525	107.521	55.393	1.00120.61	O
ATOM	7345	C	GLU	942	-15.815	105.022	54.454	1.00120.61	C
ATOM	7346	O	GLU	942	-15.112	106.030	54.519	1.00120.61	O
ATOM	7347	N	GLY	943	-15.271	103.790	54.521	1.00 51.71	N
ATOM	7348	CA	GLY	943	-13.844	103.676	54.691	1.00 51.71	C
ATOM	7349	C	GLY	943	-13.376	103.662	56.125	1.00 51.71	C
ATOM	7350	O	GLY	943	-12.326	104.229	56.428	1.00 51.71	O
ATOM	7351	N	ASN	944	-14.132	103.030	57.049	1.00 73.39	N
ATOM	7352	CA	ASN	944	-13.666	102.880	58.408	1.00 73.39	C
ATOM	7353	CB	ASN	944	-14.798	102.760	59.448	1.00 73.39	C
ATOM	7354	CG	ASN	944	-15.481	104.108	59.628	1.00 73.39	C
ATOM	7355	OD1	ASN	944	-16.407	104.455	58.896	1.00 73.39	O
ATOM	7356	ND2	ASN	944	-15.023	104.881	60.647	1.00 73.39	N
ATOM	7357	C	ASN	944	-12.931	101.569	58.454	1.00 73.39	C
ATOM	7358	O	ASN	944	-13.504	100.534	58.120	1.00 73.39	O
ATOM	7359	N	VAL	945	-11.643	101.562	58.878	1.00 65.88	N
ATOM	7360	CA	VAL	945	-10.897	100.327	58.833	1.00 65.88	C
ATOM	7361	CB	VAL	945	-9.489	100.503	58.342	1.00 65.88	C
ATOM	7362	CG1	VAL	945	-8.790	99.135	58.387	1.00 65.88	C
ATOM	7363	CG2	VAL	945	-9.529	101.134	56.937	1.00 65.88	C
ATOM	7364	C	VAL	945	-10.839	99.659	60.179	1.00 65.88	C
ATOM	7365	O	VAL	945	-10.641	100.301	61.209	1.00 65.88	O
ATOM	7366	N	THR	946	-10.997	98.316	60.215	1.00132.39	N
ATOM	7367	CA	THR	946	-10.973	97.679	61.500	1.00132.39	C
ATOM	7368	CB	THR	946	-12.314	97.195	61.972	1.00132.39	C
ATOM	7369	OG1	THR	946	-12.212	96.686	63.294	1.00132.39	O
ATOM	7370	CG2	THR	946	-12.818	96.099	61.033	1.00132.39	C
ATOM	7371	C	THR	946	-10.008	96.538	61.533	1.00132.39	C
ATOM	7372	O	THR	946	-10.019	95.664	60.671	1.00132.39	O
ATOM	7373	N	PHE	947	-9.122	96.527	62.551	1.00 90.92	N
ATOM	7374	CA	PHE	947	-8.225	95.423	62.723	1.00 90.92	C
ATOM	7375	CB	PHE	947	-6.729	95.765	62.842	1.00 90.92	C
ATOM	7376	CG	PHE	947	-6.106	95.807	61.495	1.00 90.92	C
ATOM	7377	CD1	PHE	947	-5.981	94.637	60.784	1.00 90.92	C
ATOM	7378	CD2	PHE	947	-5.610	96.973	60.963	1.00 90.92	C
ATOM	7379	CE1	PHE	947	-5.397	94.627	59.542	1.00 90.92	C
ATOM	7380	CE2	PHE	947	-5.024	96.968	59.719	1.00 90.92	C
ATOM	7381	CZ	PHE	947	-4.919	95.797	59.006	1.00 90.92	C
ATOM	7382	C	PHE	947	-8.547	94.753	64.011	1.00 90.92	C
ATOM	7383	O	PHE	947	-8.537	95.377	65.073	1.00 90.92	O
ATOM	7384	N	GLY	948	-8.801	93.433	63.953	1.00 47.99	N
ATOM	7385	CA	GLY	948	-9.117	92.766	65.175	1.00 47.99	C
ATOM	7386	C	GLY	948	-8.325	91.503	65.283	1.00 47.99	C
ATOM	7387	O	GLY	948	-8.323	90.649	64.398	1.00 47.99	O
ATOM	7388	N	GLU	949	-7.611	91.401	66.414	1.00176.15	N
ATOM	7389	CA	GLU	949	-6.862	90.278	66.885	1.00176.15	C
ATOM	7390	CB	GLU	949	-7.712	89.004	67.009	1.00176.15	C
ATOM	7391	CG	GLU	949	-7.068	87.943	67.902	1.00176.15	C
ATOM	7392	CD	GLU	949	-7.241	88.402	69.344	1.00176.15	C
ATOM	7393	OE1	GLU	949	-8.378	88.816	69.695	1.00176.15	O

ATOM	7394	OE2	GLU	949	-6.241	88.355	70.109	1.00176.15	O
ATOM	7395	C	GLU	949	-5.686	89.989	66.011	1.00176.15	C
ATOM	7396	O	GLU	949	-4.787	89.286	66.469	1.00176.15	O
ATOM	7397	N	VAL	950	-5.589	90.678	64.846	1.00170.84	N
ATOM	7398	CA	VAL	950	-4.627	90.430	63.802	1.00170.84	C
ATOM	7399	CB	VAL	950	-4.410	91.609	62.899	1.00170.84	C
ATOM	7400	CG1	VAL	950	-5.677	91.792	62.064	1.00170.84	C
ATOM	7401	CG2	VAL	950	-4.099	92.855	63.744	1.00170.84	C
ATOM	7402	C	VAL	950	-3.300	89.981	64.322	1.00170.84	C
ATOM	7403	O	VAL	950	-2.576	90.707	65.003	1.00170.84	O
ATOM	7404	N	VAL	951	-2.982	88.711	63.996	1.00133.10	N
ATOM	7405	CA	VAL	951	-1.756	88.081	64.394	1.00133.10	C
ATOM	7406	CB	VAL	951	-1.971	86.898	65.287	1.00133.10	C
ATOM	7407	CG1	VAL	951	-0.600	86.318	65.629	1.00133.10	C
ATOM	7408	CG2	VAL	951	-2.783	87.321	66.519	1.00133.10	C
ATOM	7409	C	VAL	951	-1.140	87.572	63.124	1.00133.10	C
ATOM	7410	O	VAL	951	-1.849	87.008	62.292	1.00133.10	O
ATOM	7411	N	PHE	952	0.189	87.749	62.924	1.00110.47	N
ATOM	7412	CA	PHE	952	0.728	87.343	61.650	1.00110.47	C
ATOM	7413	CB	PHE	952	0.071	88.159	60.521	1.00110.47	C
ATOM	7414	CG	PHE	952	0.944	88.184	59.318	1.00110.47	C
ATOM	7415	CD1	PHE	952	0.980	87.140	58.425	1.00110.47	C
ATOM	7416	CD2	PHE	952	1.723	89.296	59.088	1.00110.47	C
ATOM	7417	CE1	PHE	952	1.797	87.206	57.321	1.00110.47	C
ATOM	7418	CE2	PHE	952	2.541	89.368	57.987	1.00110.47	C
ATOM	7419	CZ	PHE	952	2.577	88.318	57.102	1.00110.47	C
ATOM	7420	C	PHE	952	2.224	87.519	61.529	1.00110.47	C
ATOM	7421	O	PHE	952	2.808	88.451	62.083	1.00110.47	O
ATOM	7422	N	ASN	953	2.876	86.599	60.765	1.00 84.34	N
ATOM	7423	CA	ASN	953	4.283	86.693	60.465	1.00 84.34	C
ATOM	7424	CB	ASN	953	5.196	85.835	61.352	1.00 84.34	C
ATOM	7425	CG	ASN	953	6.622	86.234	60.994	1.00 84.34	C
ATOM	7426	OD1	ASN	953	7.298	85.551	60.226	1.00 84.34	O
ATOM	7427	ND2	ASN	953	7.083	87.397	61.530	1.00 84.34	N
ATOM	7428	C	ASN	953	4.523	86.245	59.047	1.00 84.34	C
ATOM	7429	O	ASN	953	4.266	85.095	58.687	1.00 84.34	O
ATOM	7430	N	TYR	954	5.088	87.140	58.209	1.00 97.25	N
ATOM	7431	CA	TYR	954	5.327	86.798	56.833	1.00 97.25	C
ATOM	7432	CB	TYR	954	5.913	87.939	55.977	1.00 97.25	C
ATOM	7433	CG	TYR	954	7.170	88.428	56.604	1.00 97.25	C
ATOM	7434	CD1	TYR	954	7.119	89.385	57.592	1.00 97.25	C
ATOM	7435	CD2	TYR	954	8.393	87.939	56.208	1.00 97.25	C
ATOM	7436	CE1	TYR	954	8.273	89.850	58.175	1.00 97.25	C
ATOM	7437	CE2	TYR	954	9.551	88.400	56.788	1.00 97.25	C
ATOM	7438	CZ	TYR	954	9.490	89.357	57.773	1.00 97.25	C
ATOM	7439	OH	TYR	954	10.677	89.833	58.369	1.00 97.25	O
ATOM	7440	C	TYR	954	6.234	85.624	56.813	1.00 97.25	C
ATOM	7441	O	TYR	954	7.184	85.536	57.586	1.00 97.25	O
ATOM	7442	N	PRO	955	5.911	84.752	55.893	1.00228.92	N
ATOM	7443	CA	PRO	955	6.509	83.441	55.801	1.00228.92	C
ATOM	7444	CD	PRO	955	5.610	85.269	54.572	1.00228.92	C
ATOM	7445	CB	PRO	955	6.251	82.947	54.390	1.00228.92	C
ATOM	7446	CG	PRO	955	6.238	84.260	53.602	1.00228.92	C
ATOM	7447	C	PRO	955	7.973	83.444	56.053	1.00228.92	C
ATOM	7448	O	PRO	955	8.782	83.703	55.163	1.00228.92	O
ATOM	7449	N	THR	956	8.278	83.162	57.317	1.00240.10	N
ATOM	7450	CA	THR	956	9.543	82.988	57.934	1.00240.10	C
ATOM	7451	CB	THR	956	10.427	84.189	57.824	1.00240.10	C
ATOM	7452	OG1	THR	956	11.700	83.902	58.385	1.00240.10	O
ATOM	7453	CG2	THR	956	9.763	85.365	58.562	1.00240.10	C
ATOM	7454	C	THR	956	9.076	82.901	59.343	1.00240.10	C
ATOM	7455	O	THR	956	9.792	83.211	60.292	1.00240.10	O
ATOM	7456	N	ARG	957	7.851	82.353	59.458	1.00126.45	N
ATOM	7457	CA	ARG	957	6.982	82.295	60.598	1.00126.45	C
ATOM	7458	CB	ARG	957	5.694	81.505	60.307	1.00126.45	C
ATOM	7459	CG	ARG	957	4.582	81.720	61.336	1.00126.45	C
ATOM	7460	CD	ARG	957	3.299	80.955	61.004	1.00126.45	C
ATOM	7461	NE	ARG	957	2.863	81.387	59.645	1.00126.45	N
ATOM	7462	CZ	ARG	957	2.181	80.514	58.847	1.00126.45	C
ATOM	7463	NH1	ARG	957	1.862	79.275	59.320	1.00126.45	N
ATOM	7464	NH2	ARG	957	1.824	80.874	57.579	1.00126.45	N
ATOM	7465	C	ARG	957	7.664	81.689	61.783	1.00126.45	C
ATOM	7466	O	ARG	957	7.265	82.013	62.901	1.00126.45	O
ATOM	7467	N	PRO	958	8.633	80.826	61.667	1.00 91.76	N

ATOM	7468	CA	PRO	958	9.279	80.334	62.850	1.00	91.76	C
ATOM	7469	CD	PRO	958	8.736	79.860	60.587	1.00	91.76	C
ATOM	7470	CB	PRO	958	10.272	79.272	62.364	1.00	91.76	C
ATOM	7471	CG	PRO	958	10.124	79.255	60.825	1.00	91.76	C
ATOM	7472	C	PRO	958	9.884	81.474	63.610	1.00	91.76	C
ATOM	7473	O	PRO	958	10.163	81.326	64.799	1.00	91.76	O
ATOM	7474	N	ASP	959	10.093	82.614	62.933	1.00	154.36	N
ATOM	7475	CA	ASP	959	10.632	83.822	63.489	1.00	154.36	C
ATOM	7476	CB	ASP	959	10.978	84.892	62.435	1.00	154.36	C
ATOM	7477	CG	ASP	959	11.933	85.885	63.088	1.00	154.36	C
ATOM	7478	OD1	ASP	959	12.642	85.471	64.043	1.00	154.36	O
ATOM	7479	OD2	ASP	959	11.966	87.065	62.648	1.00	154.36	O
ATOM	7480	C	ASP	959	9.592	84.394	64.406	1.00	154.36	C
ATOM	7481	O	ASP	959	9.786	85.446	65.011	1.00	154.36	O
ATOM	7482	N	ILE	960	8.396	83.781	64.454	1.00	178.71	N
ATOM	7483	CA	ILE	960	7.357	84.324	65.281	1.00	178.71	C
ATOM	7484	CB	ILE	960	7.765	84.650	66.692	1.00	178.71	C
ATOM	7485	CG1	ILE	960	8.168	83.365	67.439	1.00	178.71	C
ATOM	7486	CG2	ILE	960	6.597	85.394	67.363	1.00	178.71	C
ATOM	7487	CD1	ILE	960	7.038	82.340	67.546	1.00	178.71	C
ATOM	7488	C	ILE	960	6.869	85.557	64.595	1.00	178.71	C
ATOM	7489	O	ILE	960	7.602	86.193	63.840	1.00	178.71	O
ATOM	7490	N	PRO	961	5.605	85.827	64.772	1.00	97.55	N
ATOM	7491	CA	PRO	961	4.991	86.954	64.113	1.00	97.55	C
ATOM	7492	CD	PRO	961	4.680	84.710	64.908	1.00	97.55	C
ATOM	7493	CB	PRO	961	3.492	86.670	64.149	1.00	97.55	C
ATOM	7494	CG	PRO	961	3.399	85.139	64.185	1.00	97.55	C
ATOM	7495	C	PRO	961	5.325	88.308	64.663	1.00	97.55	C
ATOM	7496	O	PRO	961	5.632	88.425	65.847	1.00	97.55	O
ATOM	7497	N	VAL	962	5.329	89.327	63.778	1.00	147.35	N
ATOM	7498	CA	VAL	962	5.487	90.723	64.082	1.00	147.35	C
ATOM	7499	CB	VAL	962	5.983	91.534	62.918	1.00	147.35	C
ATOM	7500	CG1	VAL	962	5.035	91.344	61.728	1.00	147.35	C
ATOM	7501	CG2	VAL	962	6.122	92.996	63.374	1.00	147.35	C
ATOM	7502	C	VAL	962	4.182	91.266	64.588	1.00	147.35	C
ATOM	7503	O	VAL	962	4.145	92.352	65.168	1.00	147.35	O
ATOM	7504	N	LEU	963	3.055	90.580	64.282	1.00	123.61	N
ATOM	7505	CA	LEU	963	1.794	91.047	64.803	1.00	123.61	C
ATOM	7506	CB	LEU	963	0.695	91.268	63.743	1.00	123.61	C
ATOM	7507	CG	LEU	963	1.059	92.274	62.633	1.00	123.61	C
ATOM	7508	CD1	LEU	963	1.457	93.644	63.208	1.00	123.61	C
ATOM	7509	CD2	LEU	963	2.091	91.685	61.660	1.00	123.61	C
ATOM	7510	C	LEU	963	1.268	89.968	65.697	1.00	123.61	C
ATOM	7511	O	LEU	963	0.923	88.888	65.223	1.00	123.61	O
ATOM	7512	N	GLN	964	1.178	90.228	67.017	1.00	152.87	N
ATOM	7513	CA	GLN	964	0.702	89.214	67.913	1.00	152.87	C
ATOM	7514	CB	GLN	964	1.710	88.880	69.025	1.00	152.87	C
ATOM	7515	CG	GLN	964	3.078	88.426	68.523	1.00	152.87	C
ATOM	7516	CD	GLN	964	4.046	88.487	69.697	1.00	152.87	C
ATOM	7517	OE1	GLN	964	5.263	88.507	69.517	1.00	152.87	O
ATOM	7518	NE2	GLN	964	3.492	88.533	70.938	1.00	152.87	N
ATOM	7519	C	GLN	964	-0.469	89.771	68.659	1.00	152.87	C
ATOM	7520	O	GLN	964	-0.285	90.398	69.701	1.00	152.87	O
ATOM	7521	N	GLY	965	-1.707	89.509	68.190	1.00	39.01	N
ATOM	7522	CA	GLY	965	-2.859	89.975	68.912	1.00	39.01	C
ATOM	7523	C	GLY	965	-3.010	91.461	68.782	1.00	39.01	C
ATOM	7524	O	GLY	965	-3.083	92.170	69.785	1.00	39.01	O
ATOM	7525	N	LEU	966	-3.072	91.978	67.539	1.00	73.05	N
ATOM	7526	CA	LEU	966	-3.152	93.405	67.366	1.00	73.05	C
ATOM	7527	CB	LEU	966	-2.213	93.937	66.274	1.00	73.05	C
ATOM	7528	CG	LEU	966	-2.304	95.461	66.092	1.00	73.05	C
ATOM	7529	CD1	LEU	966	-1.887	96.213	67.367	1.00	73.05	C
ATOM	7530	CD2	LEU	966	-1.525	95.910	64.846	1.00	73.05	C
ATOM	7531	C	LEU	966	-4.545	93.810	66.974	1.00	73.05	C
ATOM	7532	O	LEU	966	-5.216	93.087	66.242	1.00	73.05	O
ATOM	7533	N	SER	967	-5.024	94.973	67.488	1.00	68.50	N
ATOM	7534	CA	SER	967	-6.305	95.507	67.121	1.00	68.50	C
ATOM	7535	CB	SER	967	-7.442	95.048	68.047	1.00	68.50	C
ATOM	7536	OG	SER	967	-7.598	93.641	67.946	1.00	68.50	O
ATOM	7537	C	SER	967	-6.263	97.012	67.175	1.00	68.50	C
ATOM	7538	O	SER	967	-5.865	97.606	68.177	1.00	68.50	O
ATOM	7539	N	LEU	968	-6.693	97.667	66.074	1.00	126.15	N
ATOM	7540	CA	LEU	968	-6.738	99.102	65.978	1.00	126.15	C
ATOM	7541	CB	LEU	968	-5.560	99.727	65.214	1.00	126.15	C

ATOM	7542	CG	LEU	968	-4.174	99.284	65.710	1.00126.15	C
ATOM	7543	CD1	LEU	968	-3.988	99.574	67.205	1.00126.15	C
ATOM	7544	CD2	LEU	968	-3.889	97.827	65.322	1.00126.15	C
ATOM	7545	C	LEU	968	-7.936	99.404	65.133	1.00126.15	C
ATOM	7546	O	LEU	968	-8.738	98.520	64.839	1.00126.15	O
ATOM	7547	N	GLU	969	-8.111	100.682	64.747	1.00114.63	N
ATOM	7548	CA	GLU	969	-9.212	101.020	63.891	1.00114.63	C
ATOM	7549	CB	GLU	969	-10.539	101.176	64.637	1.00114.63	C
ATOM	7550	CG	GLU	969	-10.522	102.464	65.463	1.00114.63	C
ATOM	7551	CD	GLU	969	-11.929	102.809	65.917	1.00114.63	C
ATOM	7552	OE1	GLU	969	-12.833	102.953	65.052	1.00114.63	O
ATOM	7553	OE2	GLU	969	-12.110	102.942	67.155	1.00114.63	O
ATOM	7554	C	GLU	969	-8.953	102.407	63.396	1.00114.63	C
ATOM	7555	O	GLU	969	-8.044	103.089	63.867	1.00114.63	O
ATOM	7556	N	VAL	970	-9.749	102.857	62.407	1.00125.02	N
ATOM	7557	CA	VAL	970	-9.639	104.214	61.959	1.00125.02	C
ATOM	7558	CB	VAL	970	-8.668	104.392	60.820	1.00125.02	C
ATOM	7559	CG1	VAL	970	-9.188	103.654	59.574	1.00125.02	C
ATOM	7560	CG2	VAL	970	-8.438	105.896	60.609	1.00125.02	C
ATOM	7561	C	VAL	970	-10.998	104.664	61.505	1.00125.02	C
ATOM	7562	O	VAL	970	-11.658	103.992	60.714	1.00125.02	O
ATOM	7563	N	LYS	971	-11.435	105.852	61.971	1.00102.01	N
ATOM	7564	CA	LYS	971	-12.725	106.395	61.634	1.00102.01	C
ATOM	7565	CB	LYS	971	-13.075	107.665	62.426	1.00102.01	C
ATOM	7566	CG	LYS	971	-13.256	107.418	63.926	1.00102.01	C
ATOM	7567	CD	LYS	971	-11.965	107.018	64.642	1.00102.01	C
ATOM	7568	CE	LYS	971	-12.147	106.788	66.144	1.00102.01	C
ATOM	7569	NZ	LYS	971	-10.866	106.372	66.756	1.00102.01	N
ATOM	7570	C	LYS	971	-12.710	106.737	60.175	1.00102.01	C
ATOM	7571	O	LYS	971	-11.899	106.204	59.421	1.00102.01	O
ATOM	7572	N	LYS	972	-13.649	107.586	59.705	1.00181.44	N
ATOM	7573	CA	LYS	972	-13.594	107.846	58.294	1.00181.44	C
ATOM	7574	CB	LYS	972	-14.903	107.590	57.519	1.00181.44	C
ATOM	7575	CG	LYS	972	-15.910	108.737	57.556	1.00181.44	C
ATOM	7576	CD	LYS	972	-16.471	109.050	58.938	1.00181.44	C
ATOM	7577	CE	LYS	972	-17.264	110.355	58.955	1.00181.44	C
ATOM	7578	NZ	LYS	972	-18.438	110.236	58.063	1.00181.44	N
ATOM	7579	C	LYS	972	-13.182	109.263	58.044	1.00181.44	C
ATOM	7580	O	LYS	972	-13.124	110.094	58.948	1.00181.44	O
ATOM	7581	N	GLY	973	-12.776	109.539	56.793	1.00 52.30	N
ATOM	7582	CA	GLY	973	-12.454	110.864	56.358	1.00 52.30	C
ATOM	7583	C	GLY	973	-11.426	111.469	57.267	1.00 52.30	C
ATOM	7584	O	GLY	973	-11.322	112.693	57.331	1.00 52.30	O
ATOM	7585	N	GLN	974	-10.613	110.656	57.972	1.00143.48	N
ATOM	7586	CA	GLN	974	-9.689	111.247	58.903	1.00143.48	C
ATOM	7587	CB	GLN	974	-10.244	111.285	60.340	1.00143.48	C
ATOM	7588	CG	GLN	974	-10.939	110.003	60.805	1.00143.48	C
ATOM	7589	CD	GLN	974	-9.950	108.869	60.945	1.00143.48	C
ATOM	7590	OE1	GLN	974	-9.401	108.381	59.958	1.00143.48	O
ATOM	7591	NE2	GLN	974	-9.738	108.420	62.211	1.00143.48	N
ATOM	7592	C	GLN	974	-8.293	110.684	58.803	1.00143.48	C
ATOM	7593	O	GLN	974	-7.841	110.351	57.709	1.00143.48	O
ATOM	7594	N	THR	975	-7.511	110.670	59.915	1.00180.46	N
ATOM	7595	CA	THR	975	-6.156	110.179	59.781	1.00180.46	C
ATOM	7596	CB	THR	975	-5.118	111.240	59.550	1.00180.46	C
ATOM	7597	OG1	THR	975	-5.262	112.299	60.480	1.00180.46	O
ATOM	7598	CG2	THR	975	-5.204	111.750	58.113	1.00180.46	C
ATOM	7599	C	THR	975	-5.662	109.355	60.931	1.00180.46	C
ATOM	7600	O	THR	975	-5.470	109.840	62.048	1.00180.46	O
ATOM	7601	N	LEU	976	-5.346	108.078	60.631	1.00 95.40	N
ATOM	7602	CA	LEU	976	-4.800	107.187	61.613	1.00 95.40	C
ATOM	7603	CB	LEU	976	-5.152	105.710	61.369	1.00 95.40	C
ATOM	7604	CG	LEU	976	-4.341	104.734	62.240	1.00 95.40	C
ATOM	7605	CD1	LEU	976	-4.373	105.111	63.726	1.00 95.40	C
ATOM	7606	CD2	LEU	976	-4.804	103.292	62.010	1.00 95.40	C
ATOM	7607	C	LEU	976	-3.311	107.344	61.613	1.00 95.40	C
ATOM	7608	O	LEU	976	-2.637	107.091	60.615	1.00 95.40	O
ATOM	7609	N	ALA	977	-2.762	107.758	62.774	1.00 59.75	N
ATOM	7610	CA	ALA	977	-1.353	108.014	62.900	1.00 59.75	C
ATOM	7611	CB	ALA	977	-1.020	109.162	63.868	1.00 59.75	C
ATOM	7612	C	ALA	977	-0.664	106.796	63.417	1.00 59.75	C
ATOM	7613	O	ALA	977	-1.040	106.220	64.439	1.00 59.75	O
ATOM	7614	N	LEU	978	0.402	106.368	62.719	1.00136.20	N
ATOM	7615	CA	LEU	978	1.015	105.180	63.210	1.00136.20	C

ATOM	7616	CB	LEU	978	0.932	104.017	62.207	1.00136.20	C
ATOM	7617	CG	LEU	978	1.212	102.630	62.809	1.00136.20	C
ATOM	7618	CD1	LEU	978	2.639	102.519	63.365	1.00136.20	C
ATOM	7619	CD2	LEU	978	0.125	102.256	63.830	1.00136.20	C
ATOM	7620	C	LEU	978	2.448	105.462	63.544	1.00136.20	C
ATOM	7621	O	LEU	978	3.207	105.997	62.733	1.00136.20	O
ATOM	7622	N	VAL	979	2.830	105.141	64.798	1.00121.14	N
ATOM	7623	CA	VAL	979	4.190	105.279	65.232	1.00121.14	C
ATOM	7624	CB	VAL	979	4.376	106.368	66.254	1.00121.14	C
ATOM	7625	CG1	VAL	979	3.389	106.146	67.413	1.00121.14	C
ATOM	7626	CG2	VAL	979	5.850	106.382	66.695	1.00121.14	C
ATOM	7627	C	VAL	979	4.602	103.970	65.835	1.00121.14	C
ATOM	7628	O	VAL	979	4.087	103.551	66.873	1.00121.14	O
ATOM	7629	N	GLY	980	5.551	103.274	65.179	1.00 57.04	N
ATOM	7630	CA	GLY	980	5.966	101.993	65.688	1.00 57.04	C
ATOM	7631	C	GLY	980	7.398	102.059	66.123	1.00 57.04	C
ATOM	7632	O	GLY	980	7.959	103.137	66.309	1.00 57.04	O
ATOM	7633	N	SER	981	7.996	100.867	66.339	1.00106.07	N
ATOM	7634	CA	SER	981	9.373	100.690	66.704	1.00106.07	C
ATOM	7635	CB	SER	981	9.691	99.216	67.018	1.00106.07	C
ATOM	7636	OG	SER	981	11.090	99.018	67.145	1.00106.07	O
ATOM	7637	C	SER	981	10.240	101.094	65.559	1.00106.07	C
ATOM	7638	O	SER	981	10.845	102.165	65.549	1.00106.07	O
ATOM	7639	N	SER	982	10.299	100.218	64.538	1.00 93.40	N
ATOM	7640	CA	SER	982	11.112	100.482	63.395	1.00 93.40	C
ATOM	7641	CB	SER	982	12.612	100.530	63.730	1.00 93.40	C
ATOM	7642	OG	SER	982	13.052	99.257	64.181	1.00 93.40	O
ATOM	7643	C	SER	982	10.905	99.353	62.439	1.00 93.40	C
ATOM	7644	O	SER	982	10.526	98.251	62.836	1.00 93.40	O
ATOM	7645	N	GLY	983	11.146	99.619	61.140	1.00 34.46	N
ATOM	7646	CA	GLY	983	11.066	98.616	60.118	1.00 34.46	C
ATOM	7647	C	GLY	983	9.708	97.996	60.089	1.00 34.46	C
ATOM	7648	O	GLY	983	8.698	98.652	59.843	1.00 34.46	O
ATOM	7649	N	CYS	984	9.670	96.680	60.358	1.00113.19	N
ATOM	7650	CA	CYS	984	8.465	95.919	60.255	1.00113.19	C
ATOM	7651	CB	CYS	984	8.668	94.421	60.549	1.00113.19	C
ATOM	7652	SG	CYS	984	9.256	94.106	62.240	1.00113.19	S
ATOM	7653	C	CYS	984	7.422	96.447	61.180	1.00113.19	C
ATOM	7654	O	CYS	984	7.688	97.242	62.079	1.00113.19	O
ATOM	7655	N	GLY	985	6.166	96.058	60.904	1.00 60.30	N
ATOM	7656	CA	GLY	985	5.075	96.431	61.757	1.00 60.30	C
ATOM	7657	C	GLY	985	4.244	97.432	61.034	1.00 60.30	C
ATOM	7658	O	GLY	985	3.058	97.195	60.808	1.00 60.30	O
ATOM	7659	N	LYS	986	4.852	98.569	60.637	1.00 84.05	N
ATOM	7660	CA	LYS	986	4.112	99.568	59.933	1.00 84.05	C
ATOM	7661	CB	LYS	986	4.941	100.821	59.631	1.00 84.05	C
ATOM	7662	CG	LYS	986	5.246	101.671	60.856	1.00 84.05	C
ATOM	7663	CD	LYS	986	6.398	102.648	60.635	1.00 84.05	C
ATOM	7664	CE	LYS	986	6.607	103.604	61.808	1.00 84.05	C
ATOM	7665	NZ	LYS	986	8.010	104.067	61.830	1.00 84.05	N
ATOM	7666	C	LYS	986	3.796	98.989	58.605	1.00 84.05	C
ATOM	7667	O	LYS	986	2.686	99.121	58.095	1.00 84.05	O
ATOM	7668	N	SER	987	4.812	98.329	58.022	1.00104.60	N
ATOM	7669	CA	SER	987	4.725	97.772	56.710	1.00104.60	C
ATOM	7670	CB	SER	987	6.006	97.033	56.295	1.00104.60	C
ATOM	7671	OG	SER	987	7.132	97.875	56.458	1.00104.60	O
ATOM	7672	C	SER	987	3.678	96.714	56.716	1.00104.60	C
ATOM	7673	O	SER	987	2.772	96.726	55.887	1.00104.60	O
ATOM	7674	N	THR	988	3.766	95.789	57.693	1.00 59.17	N
ATOM	7675	CA	THR	988	2.902	94.646	57.736	1.00 59.17	C
ATOM	7676	CB	THR	988	3.166	93.747	58.912	1.00 59.17	C
ATOM	7677	OG1	THR	988	2.943	94.461	60.119	1.00 59.17	O
ATOM	7678	CG2	THR	988	4.616	93.232	58.860	1.00 59.17	C
ATOM	7679	C	THR	988	1.487	95.100	57.842	1.00 59.17	C
ATOM	7680	O	THR	988	0.605	94.537	57.198	1.00 59.17	O
ATOM	7681	N	VAL	989	1.219	96.126	58.666	1.00 55.25	N
ATOM	7682	CA	VAL	989	-0.142	96.553	58.809	1.00 55.25	C
ATOM	7683	CB	VAL	989	-0.300	97.708	59.757	1.00 55.25	C
ATOM	7684	CG1	VAL	989	-1.763	98.187	59.719	1.00 55.25	C
ATOM	7685	CG2	VAL	989	0.166	97.258	61.151	1.00 55.25	C
ATOM	7686	C	VAL	989	-0.657	97.008	57.481	1.00 55.25	C
ATOM	7687	O	VAL	989	-1.693	96.523	57.025	1.00 55.25	O
ATOM	7688	N	VAL	990	0.084	97.908	56.797	1.00132.35	N
ATOM	7689	CA	VAL	990	-0.435	98.451	55.571	1.00132.35	C



ATOM	7690	CB	VAL	990	0.443	99.466	54.886	1.00132.35	C
ATOM	7691	CG1	VAL	990	0.580	100.677	55.813	1.00132.35	C
ATOM	7692	CG2	VAL	990	1.780	98.842	54.463	1.00132.35	C
ATOM	7693	C	VAL	990	-0.666	97.336	54.624	1.00132.35	C
ATOM	7694	O	VAL	990	-1.737	97.230	54.030	1.00132.35	O
ATOM	7695	N	GLN	991	0.311	96.426	54.525	1.00 91.10	N
ATOM	7696	CA	GLN	991	0.198	95.356	53.589	1.00 91.10	C
ATOM	7697	CB	GLN	991	1.400	94.404	53.660	1.00 91.10	C
ATOM	7698	CG	GLN	991	2.700	95.119	53.286	1.00 91.10	C
ATOM	7699	CD	GLN	991	3.865	94.155	53.412	1.00 91.10	C
ATOM	7700	OE1	GLN	991	4.637	93.978	52.473	1.00 91.10	O
ATOM	7701	NE2	GLN	991	4.013	93.530	54.610	1.00 91.10	N
ATOM	7702	C	GLN	991	-1.037	94.595	53.918	1.00 91.10	C
ATOM	7703	O	GLN	991	-1.830	94.317	53.028	1.00 91.10	O
ATOM	7704	N	LEU	992	-1.299	94.340	55.210	1.00 72.43	N
ATOM	7705	CA	LEU	992	-2.430	93.535	55.578	1.00 72.43	C
ATOM	7706	CB	LEU	992	-2.584	93.387	57.098	1.00 72.43	C
ATOM	7707	CG	LEU	992	-1.513	92.481	57.732	1.00 72.43	C
ATOM	7708	CD1	LEU	992	-1.704	92.387	59.252	1.00 72.43	C
ATOM	7709	CD2	LEU	992	-1.487	91.092	57.070	1.00 72.43	C
ATOM	7710	C	LEU	992	-3.693	94.141	55.042	1.00 72.43	C
ATOM	7711	O	LEU	992	-4.579	93.406	54.606	1.00 72.43	O
ATOM	7712	N	LEU	993	-3.834	95.482	55.069	1.00122.88	N
ATOM	7713	CA	LEU	993	-5.028	96.083	54.526	1.00122.88	C
ATOM	7714	CB	LEU	993	-5.152	97.597	54.774	1.00122.88	C
ATOM	7715	CG	LEU	993	-6.363	98.255	54.074	1.00122.88	C
ATOM	7716	CD1	LEU	993	-6.709	99.581	54.748	1.00122.88	C
ATOM	7717	CD2	LEU	993	-6.113	98.515	52.575	1.00122.88	C
ATOM	7718	C	LEU	993	-5.058	95.818	53.061	1.00122.88	C
ATOM	7719	O	LEU	993	-6.114	95.604	52.467	1.00122.88	O
ATOM	7720	N	GLU	994	-3.869	95.850	52.447	1.00140.36	N
ATOM	7721	CA	GLU	994	-3.666	95.551	51.062	1.00140.36	C
ATOM	7722	CB	GLU	994	-2.222	95.784	50.594	1.00140.36	C
ATOM	7723	CG	GLU	994	-1.849	97.262	50.512	1.00140.36	C
ATOM	7724	CD	GLU	994	-2.428	97.824	49.220	1.00140.36	C
ATOM	7725	OE1	GLU	994	-3.665	97.704	49.011	1.00140.36	O
ATOM	7726	OE2	GLU	994	-1.629	98.382	48.422	1.00140.36	O
ATOM	7727	C	GLU	994	-3.953	94.093	50.901	1.00140.36	C
ATOM	7728	O	GLU	994	-3.973	93.562	49.795	1.00140.36	O
ATOM	7729	N	ARG	995	-4.049	93.392	52.038	1.00214.92	N
ATOM	7730	CA	ARG	995	-4.303	91.991	52.131	1.00214.92	C
ATOM	7731	CB	ARG	995	-5.742	91.530	51.822	1.00214.92	C
ATOM	7732	CG	ARG	995	-6.193	91.672	50.375	1.00214.92	C
ATOM	7733	CD	ARG	995	-7.519	90.952	50.118	1.00214.92	C
ATOM	7734	NE	ARG	995	-7.351	89.539	50.572	1.00214.92	N
ATOM	7735	CZ	ARG	995	-8.137	88.540	50.071	1.00214.92	C
ATOM	7736	NH1	ARG	995	-9.079	88.804	49.120	1.00214.92	N
ATOM	7737	NH2	ARG	995	-7.976	87.263	50.527	1.00214.92	N
ATOM	7738	C	ARG	995	-3.343	91.276	51.239	1.00214.92	C
ATOM	7739	O	ARG	995	-3.746	90.422	50.451	1.00214.92	O
ATOM	7740	N	PHE	996	-2.050	91.673	51.291	1.00107.26	N
ATOM	7741	CA	PHE	996	-1.044	90.957	50.567	1.00107.26	C
ATOM	7742	CB	PHE	996	0.340	91.631	50.526	1.00107.26	C
ATOM	7743	CG	PHE	996	0.254	92.864	49.696	1.00107.26	C
ATOM	7744	CD1	PHE	996	-0.293	92.811	48.435	1.00107.26	C
ATOM	7745	CD2	PHE	996	0.774	94.056	50.147	1.00107.26	C
ATOM	7746	CE1	PHE	996	-0.365	93.938	47.653	1.00107.26	C
ATOM	7747	CE2	PHE	996	0.707	95.187	49.368	1.00107.26	C
ATOM	7748	CZ	PHE	996	0.133	95.130	48.120	1.00107.26	C
ATOM	7749	C	PHE	996	-0.855	89.646	51.250	1.00107.26	C
ATOM	7750	O	PHE	996	-0.858	88.586	50.629	1.00107.26	O
ATOM	7751	N	TYR	997	-0.710	89.704	52.583	1.00105.72	N
ATOM	7752	CA	TYR	997	-0.526	88.528	53.375	1.00105.72	C
ATOM	7753	CB	TYR	997	0.608	88.633	54.404	1.00105.72	C
ATOM	7754	CG	TYR	997	1.863	89.105	53.759	1.00105.72	C
ATOM	7755	CD1	TYR	997	2.041	90.453	53.558	1.00105.72	C
ATOM	7756	CD2	TYR	997	2.857	88.232	53.378	1.00105.72	C
ATOM	7757	CE1	TYR	997	3.190	90.932	52.981	1.00105.72	C
ATOM	7758	CE2	TYR	997	4.011	88.707	52.800	1.00105.72	C
ATOM	7759	CZ	TYR	997	4.177	90.058	52.601	1.00105.72	C
ATOM	7760	OH	TYR	997	5.359	90.551	52.011	1.00105.72	O
ATOM	7761	C	TYR	997	-1.756	88.489	54.219	1.00105.72	C
ATOM	7762	O	TYR	997	-2.224	89.525	54.688	1.00105.72	O
ATOM	7763	N	ASP	998	-2.335	87.296	54.426	1.00 84.41	N

ATOM	7764	CA	ASP	998	-3.533	87.248	55.215	1.00	84.41	C
ATOM	7765	CB	ASP	998	-4.546	86.220	54.687	1.00	84.41	C
ATOM	7766	CG	ASP	998	-5.132	86.802	53.405	1.00	84.41	C
ATOM	7767	OD1	ASP	998	-5.758	87.892	53.500	1.00	84.41	O
ATOM	7768	OD2	ASP	998	-4.957	86.186	52.320	1.00	84.41	O
ATOM	7769	C	ASP	998	-3.167	86.913	56.621	1.00	84.41	C
ATOM	7770	O	ASP	998	-2.390	85.995	56.889	1.00	84.41	O
ATOM	7771	N	PRO	999	-3.745	87.659	57.524	1.00	83.92	N
ATOM	7772	CA	PRO	999	-3.454	87.528	58.926	1.00	83.92	C
ATOM	7773	CD	PRO	999	-5.061	88.233	57.290	1.00	83.92	C
ATOM	7774	CB	PRO	999	-4.466	88.427	59.631	1.00	83.92	C
ATOM	7775	CG	PRO	999	-5.682	88.390	58.687	1.00	83.92	C
ATOM	7776	C	PRO	999	-3.594	86.103	59.352	1.00	83.92	C
ATOM	7777	O	PRO	999	-4.509	85.422	58.895	1.00	83.92	O
ATOM	7778	N	LEU	1000	-2.683	85.635	60.226	1.00	52.95	N
ATOM	7779	CA	LEU	1000	-2.721	84.291	60.721	1.00	52.95	C
ATOM	7780	CB	LEU	1000	-1.562	83.972	61.682	1.00	52.95	C
ATOM	7781	CG	LEU	1000	-0.179	83.904	61.013	1.00	52.95	C
ATOM	7782	CD1	LEU	1000	0.913	83.581	62.046	1.00	52.95	C
ATOM	7783	CD2	LEU	1000	-0.180	82.908	59.842	1.00	52.95	C
ATOM	7784	C	LEU	1000	-3.988	84.125	61.498	1.00	52.95	C
ATOM	7785	O	LEU	1000	-4.609	83.067	61.450	1.00	52.95	O
ATOM	7786	N	ALA	1001	-4.399	85.157	62.264	1.00	40.42	N
ATOM	7787	CA	ALA	1001	-5.608	85.031	63.034	1.00	40.42	C
ATOM	7788	CB	ALA	1001	-5.373	84.508	64.459	1.00	40.42	C
ATOM	7789	C	ALA	1001	-6.225	86.390	63.190	1.00	40.42	C
ATOM	7790	O	ALA	1001	-5.526	87.401	63.218	1.00	40.42	O
ATOM	7791	N	GLY	1002	-7.568	86.442	63.332	1.00	33.09	N
ATOM	7792	CA	GLY	1002	-8.240	87.703	63.503	1.00	33.09	C
ATOM	7793	C	GLY	1002	-8.729	88.155	62.159	1.00	33.09	C
ATOM	7794	O	GLY	1002	-8.600	87.422	61.181	1.00	33.09	O
ATOM	7795	N	LYS	1003	-9.327	89.370	62.074	1.00	162.53	N
ATOM	7796	CA	LYS	1003	-9.851	89.809	60.806	1.00	162.53	C
ATOM	7797	CB	LYS	1003	-11.281	89.306	60.522	1.00	162.53	C
ATOM	7798	CG	LYS	1003	-12.335	89.767	61.534	1.00	162.53	C
ATOM	7799	CD	LYS	1003	-12.054	89.302	62.965	1.00	162.53	C
ATOM	7800	CE	LYS	1003	-13.191	89.584	63.952	1.00	162.53	C
ATOM	7801	NZ	LYS	1003	-13.985	88.355	64.175	1.00	162.53	N
ATOM	7802	C	LYS	1003	-9.861	91.312	60.708	1.00	162.53	C
ATOM	7803	O	LYS	1003	-9.447	92.023	61.620	1.00	162.53	O
ATOM	7804	N	VAL	1004	-10.317	91.848	59.553	1.00	164.16	N
ATOM	7805	CA	VAL	1004	-10.343	93.278	59.378	1.00	164.16	C
ATOM	7806	CB	VAL	1004	-9.047	93.773	58.752	1.00	164.16	C
ATOM	7807	CG1	VAL	1004	-8.573	92.726	57.748	1.00	164.16	C
ATOM	7808	CG2	VAL	1004	-9.192	95.162	58.109	1.00	164.16	C
ATOM	7809	C	VAL	1004	-11.593	93.678	58.636	1.00	164.16	C
ATOM	7810	O	VAL	1004	-12.336	92.818	58.183	1.00	164.16	O
ATOM	7811	N	LEU	1005	-11.943	94.984	58.605	1.00	119.22	N
ATOM	7812	CA	LEU	1005	-13.083	95.448	57.849	1.00	119.22	C
ATOM	7813	CB	LEU	1005	-14.412	95.512	58.627	1.00	119.22	C
ATOM	7814	CG	LEU	1005	-14.954	94.149	59.093	1.00	119.22	C
ATOM	7815	CD1	LEU	1005	-14.088	93.558	60.215	1.00	119.22	C
ATOM	7816	CD2	LEU	1005	-16.445	94.239	59.459	1.00	119.22	C
ATOM	7817	C	LEU	1005	-12.786	96.846	57.398	1.00	119.22	C
ATOM	7818	O	LEU	1005	-12.820	97.792	58.182	1.00	119.22	O
ATOM	7819	N	LEU	1006	-12.559	97.018	56.087	1.00	159.87	N
ATOM	7820	CA	LEU	1006	-12.212	98.292	55.530	1.00	159.87	C
ATOM	7821	CB	LEU	1006	-11.828	98.247	54.039	1.00	159.87	C
ATOM	7822	CG	LEU	1006	-13.013	98.056	53.083	1.00	159.87	C
ATOM	7823	CD1	LEU	1006	-12.529	97.875	51.633	1.00	159.87	C
ATOM	7824	CD2	LEU	1006	-13.955	96.944	53.569	1.00	159.87	C
ATOM	7825	C	LEU	1006	-13.375	99.192	55.734	1.00	159.87	C
ATOM	7826	O	LEU	1006	-13.291	100.408	55.570	1.00	159.87	O
ATOM	7827	N	ASP	1007	-14.538	98.589	55.999	1.00	160.31	N
ATOM	7828	CA	ASP	1007	-15.697	99.378	56.237	1.00	160.31	C
ATOM	7829	CB	ASP	1007	-16.335	99.819	54.909	1.00	160.31	C
ATOM	7830	CG	ASP	1007	-17.520	100.730	55.181	1.00	160.31	C
ATOM	7831	OD1	ASP	1007	-17.316	101.799	55.813	1.00	160.31	O
ATOM	7832	OD2	ASP	1007	-18.649	100.359	54.763	1.00	160.31	O
ATOM	7833	C	ASP	1007	-16.667	98.476	56.923	1.00	160.31	C
ATOM	7834	O	ASP	1007	-16.865	98.536	58.134	1.00	160.31	O
ATOM	7835	N	GLY	1008	-17.411	97.725	56.097	1.00	120.07	N
ATOM	7836	CA	GLY	1008	-18.434	96.804	56.494	1.00	120.07	C
ATOM	7837	C	GLY	1008	-18.100	95.389	56.860	1.00	120.07	C

ATOM	7838	O	GLY	1008	-18.722	94.851	57.775	1.00120.07	O
ATOM	7839	N	LYS	1009	-17.196	94.697	56.124	1.00145.78	N
ATOM	7840	CA	LYS	1009	-17.159	93.284	56.399	1.00145.78	C
ATOM	7841	CB	LYS	1009	-18.181	92.470	55.584	1.00145.78	C
ATOM	7842	CG	LYS	1009	-19.617	92.994	55.643	1.00145.78	C
ATOM	7843	CD	LYS	1009	-19.832	94.238	54.777	1.00145.78	C
ATOM	7844	CE	LYS	1009	-21.221	94.861	54.913	1.00145.78	C
ATOM	7845	NZ	LYS	1009	-21.187	96.252	54.409	1.00145.78	N
ATOM	7846	C	LYS	1009	-15.838	92.712	56.025	1.00145.78	C
ATOM	7847	O	LYS	1009	-15.232	93.102	55.026	1.00145.78	O
ATOM	7848	N	GLU	1010	-15.475	91.658	56.783	1.00131.04	N
ATOM	7849	CA	GLU	1010	-14.233	90.953	56.813	1.00131.04	C
ATOM	7850	CB	GLU	1010	-14.383	89.426	56.915	1.00131.04	C
ATOM	7851	CG	GLU	1010	-15.047	88.926	58.193	1.00131.04	C
ATOM	7852	CD	GLU	1010	-15.094	87.409	58.096	1.00131.04	C
ATOM	7853	OE1	GLU	1010	-14.350	86.844	57.249	1.00131.04	O
ATOM	7854	OE2	GLU	1010	-15.873	86.793	58.871	1.00131.04	O
ATOM	7855	C	GLU	1010	-13.412	91.172	55.607	1.00131.04	C
ATOM	7856	O	GLU	1010	-13.673	90.626	54.536	1.00131.04	O
ATOM	7857	N	ILE	1011	-12.328	91.958	55.772	1.00288.79	N
ATOM	7858	CA	ILE	1011	-11.352	91.945	54.758	1.00288.79	C
ATOM	7859	CB	ILE	1011	-10.711	93.248	54.365	1.00288.79	C
ATOM	7860	CG1	ILE	1011	-9.985	93.981	55.479	1.00288.79	C
ATOM	7861	CG2	ILE	1011	-11.799	94.102	53.710	1.00288.79	C
ATOM	7862	CD1	ILE	1011	-9.335	95.230	54.897	1.00288.79	C
ATOM	7863	C	ILE	1011	-10.420	90.875	55.193	1.00288.79	C
ATOM	7864	O	ILE	1011	-9.328	91.095	55.704	1.00288.79	O
ATOM	7865	N	LYS	1012	-11.083	89.727	55.395	1.00210.59	N
ATOM	7866	CA	LYS	1012	-10.692	88.378	55.302	1.00210.59	C
ATOM	7867	CB	LYS	1012	-11.442	87.519	56.326	1.00210.59	C
ATOM	7868	CG	LYS	1012	-11.238	86.018	56.143	1.00210.59	C
ATOM	7869	CD	LYS	1012	-9.826	85.536	56.476	1.00210.59	C
ATOM	7870	CE	LYS	1012	-9.587	85.321	57.973	1.00210.59	C
ATOM	7871	NZ	LYS	1012	-8.297	84.628	58.188	1.00210.59	N
ATOM	7872	C	LYS	1012	-11.237	88.028	53.961	1.00210.59	C
ATOM	7873	O	LYS	1012	-10.547	87.582	53.046	1.00210.59	O
ATOM	7874	N	ARG	1013	-12.558	88.335	53.831	1.00159.76	N
ATOM	7875	CA	ARG	1013	-13.278	88.051	52.628	1.00159.76	C
ATOM	7876	CB	ARG	1013	-14.256	86.858	52.690	1.00159.76	C
ATOM	7877	CG	ARG	1013	-15.417	86.940	53.686	1.00159.76	C
ATOM	7878	CD	ARG	1013	-16.486	85.881	53.381	1.00159.76	C
ATOM	7879	NE	ARG	1013	-17.397	85.753	54.554	1.00159.76	N
ATOM	7880	CZ	ARG	1013	-18.464	84.902	54.489	1.00159.76	C
ATOM	7881	NH1	ARG	1013	-18.769	84.275	53.317	1.00159.	

ATOM	7912	CD	GLN	1017	-8.062	92.078	40.942	1.00143.70	C
ATOM	7913	OE1	GLN	1017	-7.678	93.246	40.964	1.00143.70	O
ATOM	7914	NE2	GLN	1017	-7.338	91.079	40.369	1.00143.70	N
ATOM	7915	C	GLN	1017	-10.054	94.658	43.869	1.00143.70	C
ATOM	7916	O	GLN	1017	-9.466	95.722	43.684	1.00143.70	O
ATOM	7917	N	TRP	1018	-11.299	94.608	44.369	1.00120.90	N
ATOM	7918	CA	TRP	1018	-11.951	95.826	44.748	1.00120.90	C
ATOM	7919	CB	TRP	1018	-13.460	95.696	44.963	1.00120.90	C
ATOM	7920	CG	TRP	1018	-14.026	97.023	45.380	1.00120.90	C
ATOM	7921	CD2	TRP	1018	-14.255	97.390	46.746	1.00120.90	C
ATOM	7922	CD1	TRP	1018	-14.377	98.100	44.622	1.00120.90	C
ATOM	7923	NE1	TRP	1018	-14.792	99.126	45.434	1.00120.90	N
ATOM	7924	CE2	TRP	1018	-14.727	98.700	46.744	1.00120.90	C
ATOM	7925	CE3	TRP	1018	-14.071	96.695	47.906	1.00120.90	C
ATOM	7926	CZ2	TRP	1018	-15.030	99.341	47.909	1.00120.90	C
ATOM	7927	CZ3	TRP	1018	-14.389	97.337	49.080	1.00120.90	C
ATOM	7928	CH2	TRP	1018	-14.859	98.634	49.080	1.00120.90	C
ATOM	7929	C	TRP	1018	-11.357	96.393	46.001	1.00120.90	C
ATOM	7930	O	TRP	1018	-11.241	97.610	46.146	1.00120.90	O
ATOM	7931	N	LEU	1019	-10.970	95.524	46.953	1.00139.46	N
ATOM	7932	CA	LEU	1019	-10.436	96.004	48.200	1.00139.46	C
ATOM	7933	CB	LEU	1019	-9.984	94.848	49.114	1.00139.46	C
ATOM	7934	CG	LEU	1019	-9.597	95.228	50.561	1.00139.46	C
ATOM	7935	CD1	LEU	1019	-9.176	93.978	51.339	1.00139.46	C
ATOM	7936	CD2	LEU	1019	-8.521	96.320	50.645	1.00139.46	C
ATOM	7937	C	LEU	1019	-9.249	96.850	47.848	1.00139.46	C
ATOM	7938	O	LEU	1019	-9.054	97.932	48.397	1.00139.46	O
ATOM	7939	N	ARG	1020	-8.442	96.377	46.890	1.00133.19	N
ATOM	7940	CA	ARG	1020	-7.286	97.082	46.408	1.00133.19	C
ATOM	7941	CB	ARG	1020	-6.341	96.234	45.542	1.00133.19	C
ATOM	7942	CG	ARG	1020	-5.586	95.177	46.349	1.00133.19	C
ATOM	7943	CD	ARG	1020	-4.536	94.410	45.545	1.00133.19	C
ATOM	7944	NE	ARG	1020	-3.938	93.390	46.452	1.00133.19	N
ATOM	7945	CZ	ARG	1020	-3.538	92.194	45.933	1.00133.19	C
ATOM	7946	NH1	ARG	1020	-3.662	91.967	44.593	1.00133.19	N
ATOM	7947	NH2	ARG	1020	-3.026	91.226	46.749	1.00133.19	N
ATOM	7948	C	ARG	1020	-7.708	98.252	45.588	1.00133.19	C
ATOM	7949	O	ARG	1020	-6.895	99.115	45.278	1.00133.19	O
ATOM	7950	N	ALA	1021	-8.967	98.283	45.132	1.00 54.98	N
ATOM	7951	CA	ALA	1021	-9.406	99.386	44.332	1.00 54.98	C
ATOM	7952	CB	ALA	1021	-10.902	99.321	43.980	1.00 54.98	C
ATOM	7953	C	ALA	1021	-9.174	100.625	45.142	1.00 54.98	C
ATOM	7954	O	ALA	1021	-8.716	101.640	44.618	1.00 54.98	O
ATOM	7955	N	HIS	1022	-9.458	100.571	46.456	1.00 93.40	N
ATOM	7956	CA	HIS	1022	-9.241	101.740	47.258	1.00 93.40	C
ATOM	7957	ND1	HIS	1022	-12.410	103.257	47.309	1.00 93.40	N
ATOM	7958	CG	HIS	1022	-11.722	102.081	47.513	1.00 93.40	C
ATOM	7959	CB	HIS	1022	-10.407	101.974	48.234	1.00 93.40	C
ATOM	7960	NE2	HIS	1022	-13.609	101.646	46.351	1.00 93.40	N
ATOM	7961	CD2	HIS	1022	-12.469	101.109	46.922	1.00 93.40	C
ATOM	7962	CE1	HIS	1022	-13.529	102.939	46.609	1.00 93.40	C
ATOM	7963	C	HIS	1022	-7.979	101.552	48.050	1.00 93.40	C
ATOM	7964	O	HIS	1022	-7.904	100.707	48.941	1.00 93.40	O
ATOM	7965	N	LEU	1023	-6.924	102.326	47.717	1.00165.78	N
ATOM	7966	CA	LEU	1023	-5.702	102.225	48.462	1.00165.78	C
ATOM	7967	CB	LEU	1023	-4.981	100.871	48.234	1.00165.78	C
ATOM	7968	CG	LEU	1023	-4.389	100.630	46.825	1.00165.78	C
ATOM	7969	CD1	LEU	1023	-4.028	99.152	46.605	1.00165.78	C
ATOM	7970	CD2	LEU	1023	-5.255	101.244	45.713	1.00165.78	C
ATOM	7971	C	LEU	1023	-4.811	103.370	48.063	1.00165.78	C
ATOM	7972	O	LEU	1023	-4.096	103.324	47.064	1.00165.78	O
ATOM	7973	N	GLY	1024	-4.794	104.453	48.856	1.00 55.36	N
ATOM	7974	CA	GLY	1024	-3.939	105.530	48.454	1.00 55.36	C
ATOM	7975	C	GLY	1024	-2.598	105.204	49.010	1.00 55.36	C
ATOM	7976	O	GLY	1024	-2.196	105.733	50.041	1.00 55.36	O
ATOM	7977	N	ILE	1025	-1.851	104.346	48.294	1.00116.73	N
ATOM	7978	CA	ILE	1025	-0.577	103.878	48.748	1.00116.73	C
ATOM	7979	CB	ILE	1025	-0.356	102.420	48.456	1.00116.73	C
ATOM	7980	CG1	ILE	1025	1.036	101.968	48.935	1.00116.73	C
ATOM	7981	CG2	ILE	1025	-0.616	102.191	46.958	1.00116.73	C
ATOM	7982	CD1	ILE	1025	1.230	102.007	50.450	1.00116.73	C
ATOM	7983	C	ILE	1025	0.519	104.646	48.085	1.00116.73	C
ATOM	7984	O	ILE	1025	0.456	104.970	46.900	1.00116.73	O
ATOM	7985	N	VAL	1026	1.527	105.022	48.896	1.00 75.11	N

ATOM	7986	CA	VAL	1026	2.725	105.659	48.434	1.00	75.11	C
ATOM	7987	CB	VAL	1026	2.630	107.156	48.425	1.00	75.11	C
ATOM	7988	CG1	VAL	1026	3.982	107.727	47.967	1.00	75.11	C
ATOM	7989	CG2	VAL	1026	1.440	107.578	47.544	1.00	75.11	C
ATOM	7990	C	VAL	1026	3.758	105.282	49.454	1.00	75.11	C
ATOM	7991	O	VAL	1026	3.511	105.428	50.651	1.00	75.11	O
ATOM	7992	N	SER	1027	4.951	104.821	49.019	1.00	119.18	N
ATOM	7993	CA	SER	1027	5.934	104.350	49.960	1.00	119.18	C
ATOM	7994	CB	SER	1027	6.253	102.849	49.856	1.00	119.18	C
ATOM	7995	OG	SER	1027	5.157	102.072	50.304	1.00	119.18	O
ATOM	7996	C	SER	1027	7.243	105.031	49.744	1.00	119.18	C
ATOM	7997	O	SER	1027	7.402	105.880	48.867	1.00	119.18	O
ATOM	7998	N	GLN	1028	8.239	104.610	50.552	1.00	121.69	N
ATOM	7999	CA	GLN	1028	9.509	105.262	50.566	1.00	121.69	C
ATOM	8000	CB	GLN	1028	10.494	104.531	51.485	1.00	121.69	C
ATOM	8001	CG	GLN	1028	9.999	104.530	52.933	1.00	121.69	C
ATOM	8002	CD	GLN	1028	10.823	103.537	53.734	1.00	121.69	C
ATOM	8003	OE1	GLN	1028	11.852	103.885	54.308	1.00	121.69	O
ATOM	8004	NE2	GLN	1028	10.358	102.260	53.781	1.00	121.69	N
ATOM	8005	C	GLN	1028	10.070	105.288	49.183	1.00	121.69	C
ATOM	8006	O	GLN	1028	10.264	106.367	48.624	1.00	121.69	O
ATOM	8007	N	GLU	1029	10.259	104.117	48.548	1.00	97.25	N
ATOM	8008	CA	GLU	1029	10.816	104.141	47.227	1.00	97.25	C
ATOM	8009	CB	GLU	1029	11.760	102.960	46.934	1.00	97.25	C
ATOM	8010	CG	GLU	1029	12.358	102.983	45.524	1.00	97.25	C
ATOM	8011	CD	GLU	1029	13.436	104.054	45.491	1.00	97.25	C
ATOM	8012	OE1	GLU	1029	13.752	104.597	46.581	1.00	97.25	O
ATOM	8013	OE2	GLU	1029	13.953	104.347	44.380	1.00	97.25	O
ATOM	8014	C	GLU	1029	9.675	104.050	46.269	1.00	97.25	C
ATOM	8015	O	GLU	1029	8.999	103.030	46.161	1.00	97.25	O
ATOM	8016	N	PRO	1030	9.468	105.122	45.566	1.00	117.35	N
ATOM	8017	CA	PRO	1030	8.436	105.248	44.576	1.00	117.35	C
ATOM	8018	CD	PRO	1030	10.177	106.367	45.800	1.00	117.35	C
ATOM	8019	CB	PRO	1030	8.330	106.743	44.286	1.00	117.35	C
ATOM	8020	CG	PRO	1030	9.719	107.291	44.661	1.00	117.35	C
ATOM	8021	C	PRO	1030	8.923	104.495	43.384	1.00	117.35	C
ATOM	8022	O	PRO	1030	9.885	103.737	43.511	1.00	117.35	O
ATOM	8023	N	ILE	1031	8.196	104.581	42.256	1.00	133.13	N
ATOM	8024	CA	ILE	1031	8.676	103.981	41.043	1.00	133.13	C
ATOM	8025	CB	ILE	1031	8.943	102.512	41.179	1.00	133.13	C
ATOM	8026	CG1	ILE	1031	9.516	101.943	39.870	1.00	133.13	C
ATOM	8027	CG2	ILE	1031	7.639	101.847	41.648	1.00	133.13	C
ATOM	8028	CD1	ILE	1031	10.843	102.580	39.458	1.00	133.13	C
ATOM	8029	C	ILE	1031	7.650	104.176	39.972	1.00	133.13	C
ATOM	8030	O	ILE	1031	6.486	104.449	40.260	1.00	133.13	O
ATOM	8031	N	LEU	1032	8.063	104.051	38.692	1.00	146.05	N
ATOM	8032	CA	LEU	1032	7.122	104.172	37.613	1.00	146.05	C
ATOM	8033	CB	LEU	1032	7.037	105.590	37.015	1.00	146.05	C
ATOM	8034	CG	LEU	1032	6.840	106.740	38.014	1.00	146.05	C
ATOM	8035	CD1	LEU	1032	8.079	106.897	38.908	1.00	146.05	C
ATOM	8036	CD2	LEU	1032	6.482	108.050	37.291	1.00	146.05	C
ATOM	8037	C	LEU	1032	7.656	103.381	36.458	1.00	146.05	C
ATOM	8038	O	LEU	1032	8.849	103.434	36.163	1.00	146.05	O
ATOM	8039	N	PHE	1033	6.774	102.650	35.752	1.00	134.06	N
ATOM	8040	CA	PHE	1033	7.152	101.954	34.556	1.00	134.06	C
ATOM	8041	CB	PHE	1033	6.106	100.905	34.140	1.00	134.06	C
ATOM	8042	CG	PHE	1033	6.723	100.052	33.094	1.00	134.06	C
ATOM	8043	CD1	PHE	1033	7.903	99.402	33.367	1.00	134.06	C
ATOM	8044	CD2	PHE	1033	6.111	99.861	31.878	1.00	134.06	C
ATOM	8045	CE1	PHE	1033	8.498	98.597	32.426	1.00	134.06	C
ATOM	8046	CE2	PHE	1033	6.703	99.055	30.936	1.00	134.06	C
ATOM	8047	CZ	PHE	1033	7.896	98.426	31.203	1.00	134.06	C
ATOM	8048	C	PHE	1033	7.257	103.047	33.523	1.00	134.06	C
ATOM	8049	O	PHE	1033	6.697	104.125	33.706	1.00	134.06	O
ATOM	8050	N	ASP	1034	7.925	102.747	32.394	1.00	221.20	N
ATOM	8051	CA	ASP	1034	8.419	103.545	31.298	1.00	221.20	C
ATOM	8052	CB	ASP	1034	9.167	102.691	30.267	1.00	221.20	C
ATOM	8053	CG	ASP	1034	10.306	101.998	30.989	1.00	221.20	C
ATOM	8054	OD1	ASP	1034	10.860	102.610	31.937	1.00	221.20	O
ATOM	8055	OD2	ASP	1034	10.631	100.842	30.609	1.00	221.20	O
ATOM	8056	C	ASP	1034	7.385	104.297	30.513	1.00	221.20	C
ATOM	8057	O	ASP	1034	7.707	104.776	29.427	1.00	221.20	O
ATOM	8058	N	CYS	1035	6.104	104.297	30.908	1.00	69.45	N
ATOM	8059	CA	CYS	1035	5.159	105.073	30.144	1.00	69.45	C

ATOM	8060	CB	CYS	1035	3.700	104.854	30.578	1.00	69.45	C
ATOM	8061	SG	CYS	1035	3.156	103.129	30.401	1.00	69.45	S
ATOM	8062	C	CYS	1035	5.462	106.527	30.373	1.00	69.45	C
ATOM	8063	O	CYS	1035	6.258	106.881	31.241	1.00	69.45	O
ATOM	8064	N	SER	1036	4.859	107.421	29.561	1.00	45.84	N
ATOM	8065	CA	SER	1036	5.063	108.821	29.787	1.00	45.84	C
ATOM	8066	CB	SER	1036	4.382	109.720	28.739	1.00	45.84	C
ATOM	8067	OG	SER	1036	2.973	109.551	28.787	1.00	45.84	O
ATOM	8068	C	SER	1036	4.428	109.075	31.116	1.00	45.84	C
ATOM	8069	O	SER	1036	3.614	108.279	31.578	1.00	45.84	O
ATOM	8070	N	ILE	1037	4.781	110.190	31.775	1.00	72.26	N
ATOM	8071	CA	ILE	1037	4.263	110.457	33.084	1.00	72.26	C
ATOM	8072	CB	ILE	1037	4.740	111.754	33.649	1.00	72.26	C
ATOM	8073	CG1	ILE	1037	4.226	112.897	32.765	1.00	72.26	C
ATOM	8074	CG2	ILE	1037	6.272	111.694	33.790	1.00	72.26	C
ATOM	8075	CD1	ILE	1037	4.290	114.260	33.437	1.00	72.26	C
ATOM	8076	C	ILE	1037	2.774	110.549	32.982	1.00	72.26	C
ATOM	8077	O	ILE	1037	2.065	110.175	33.909	1.00	72.26	O
ATOM	8078	N	ALA	1038	2.250	111.071	31.858	1.00	53.91	N
ATOM	8079	CA	ALA	1038	0.829	111.217	31.722	1.00	53.91	C
ATOM	8080	CB	ALA	1038	0.418	111.764	30.346	1.00	53.91	C
ATOM	8081	C	ALA	1038	0.179	109.870	31.885	1.00	53.91	C
ATOM	8082	O	ALA	1038	-0.880	109.760	32.501	1.00	53.91	O
ATOM	8083	N	GLU	1039	0.776	108.814	31.298	1.00	95.41	N
ATOM	8084	CA	GLU	1039	0.275	107.467	31.404	1.00	95.41	C
ATOM	8085	CB	GLU	1039	1.048	106.498	30.498	1.00	95.41	C
ATOM	8086	CG	GLU	1039	0.947	106.841	29.012	1.00	95.41	C
ATOM	8087	CD	GLU	1039	-0.485	106.613	28.544	1.00	95.41	C
ATOM	8088	OE1	GLU	1039	-1.371	106.375	29.408	1.00	95.41	O
ATOM	8089	OE2	GLU	1039	-0.709	106.678	27.307	1.00	95.41	O
ATOM	8090	C	GLU	1039	0.471	106.975	32.806	1.00	95.41	C
ATOM	8091	O	GLU	1039	-0.420	106.377	33.410	1.00	95.41	O
ATOM	8092	N	ASN	1040	1.663	107.236	33.372	1.00	98.60	N
ATOM	8093	CA	ASN	1040	1.976	106.758	34.686	1.00	98.60	C
ATOM	8094	CB	ASN	1040	3.343	107.249	35.199	1.00	98.60	C
ATOM	8095	CG	ASN	1040	4.464	106.522	34.466	1.00	98.60	C
ATOM	8096	OD1	ASN	1040	5.644	106.778	34.704	1.00	98.60	O
ATOM	8097	ND2	ASN	1040	4.092	105.588	33.553	1.00	98.60	N
ATOM	8098	C	ASN	1040	0.959	107.330	35.602	1.00	98.60	C
ATOM	8099	O	ASN	1040	0.345	106.582	36.349	1.00	98.60	O
ATOM	8100	N	ILE	1041	0.687	108.644	35.501	1.00	161.52	N
ATOM	8101	CA	ILE	1041	-0.266	109.320	36.338	1.00	161.52	C
ATOM	8102	CB	ILE	1041	-0.662	110.671	35.795	1.00	161.52	C
ATOM	8103	CG1	ILE	1041	0.515	111.646	35.617	1.00	161.52	C
ATOM	8104	CG2	ILE	1041	-1.767	111.215	36.710	1.00	161.52	C
ATOM	8105	CD1	ILE	1041	1.158	112.133	36.906	1.00	161.52	C
ATOM	8106	C	ILE	1041	-1.519	108.518	36.180	1.00	161.52	C
ATOM	8107	O	ILE	1041	-2.154	108.105	37.145	1.00	161.52	O
ATOM	8108	N	ALA	1042	-1.775	108.149	34.919	1.00	115.48	N
ATOM	8109	CA	ALA	1042	-2.901	107.432	34.406	1.00	115.48	C
ATOM	8110	CB	ALA	1042	-2.922	107.322	32.870	1.00	115.48	C
ATOM	8111	C	ALA	1042	-2.992	106.057	34.976	1.00	115.48	C
ATOM	8112	O	ALA	1042	-3.936	105.364	34.604	1.00	115.48	O
ATOM	8113	N	TYR	1043	-1.959	105.604	35.740	1.00	208.62	N
ATOM	8114	CA	TYR	1043	-1.769	104.265	36.261	1.00	208.62	C
ATOM	8115	CB	TYR	1043	-1.259	104.123	37.714	1.00	208.62	C
ATOM	8116	CG	TYR	1043	0.218	104.243	37.751	1.00	208.62	C
ATOM	8117	CD1	TYR	1043	0.979	103.402	36.975	1.00	208.62	C
ATOM	8118	CD2	TYR	1043	0.836	105.135	38.596	1.00	208.62	C
ATOM	8119	CE1	TYR	1043	2.349	103.482	36.992	1.00	208.62	C
ATOM	8120	CE2	TYR	1043	2.207	105.221	38.613	1.00	208.62	C
ATOM	8121	CZ	TYR	1043	2.960	104.400	37.809	1.00	208.62	C
ATOM	8122	OH	TYR	1043	4.365	104.493	37.832	1.00	208.62	O
ATOM	8123	C	TYR	1043	-3.014	103.487	36.262	1.00	208.62	C
ATOM	8124	O	TYR	1043	-3.856	103.684	37.129	1.00	208.62	O
ATOM	8125	N	GLY	1044	-3.165	102.731	35.154	1.00	179.20	N
ATOM	8126	CA	GLY	1044	-4.083	101.688	34.785	1.00	179.20	C
ATOM	8127	C	GLY	1044	-4.634	100.933	35.950	1.00	179.20	C
ATOM	8128	O	GLY	1044	-4.519	99.711	35.961	1.00	179.20	O
ATOM	8129	N	ASP	1045	-5.294	101.592	36.907	1.00	183.64	N
ATOM	8130	CA	ASP	1045	-5.735	100.978	38.117	1.00	183.64	C
ATOM	8131	CB	ASP	1045	-6.622	101.938	38.917	1.00	183.64	C
ATOM	8132	CG	ASP	1045	-5.911	103.281	38.924	1.00	183.64	C
ATOM	8133	OD1	ASP	1045	-4.784	103.379	39.476	1.00	183.64	O

ATOM	8134	OD2	ASP	1045	-6.502	104.234	38.351	1.00183.64	O
ATOM	8135	C	ASP	1045	-6.628	99.881	37.671	1.00183.64	C
ATOM	8136	O	ASP	1045	-6.637	98.780	38.218	1.00183.64	O
ATOM	8137	N	ASN	1046	-7.396	100.188	36.617	1.00102.03	N
ATOM	8138	CA	ASN	1046	-8.310	99.246	36.066	1.00102.03	C
ATOM	8139	CB	ASN	1046	-9.476	98.919	37.021	1.00102.03	C
ATOM	8140	CG	ASN	1046	-10.115	100.214	37.504	1.00102.03	C
ATOM	8141	OD1	ASN	1046	-10.596	101.027	36.717	1.00102.03	O
ATOM	8142	ND2	ASN	1046	-10.118	100.412	38.850	1.00102.03	N
ATOM	8143	C	ASN	1046	-8.814	99.818	34.787	1.00102.03	C
ATOM	8144	O	ASN	1046	-8.086	100.489	34.054	1.00102.03	O
ATOM	8145	N	SER	1047	-10.109	99.600	34.504	1.00 92.27	N
ATOM	8146	CA	SER	1047	-10.717	100.047	33.285	1.00 92.27	C
ATOM	8147	CB	SER	1047	-12.194	99.635	33.165	1.00 92.27	C
ATOM	8148	OG	SER	1047	-12.733	100.108	31.941	1.00 92.27	O
ATOM	8149	C	SER	1047	-10.634	101.539	33.208	1.00 92.27	C
ATOM	8150	O	SER	1047	-10.940	102.115	32.163	1.00 92.27	O
ATOM	8151	N	ARG	1048	-10.213	102.193	34.314	1.00133.23	N
ATOM	8152	CA	ARG	1048	-10.071	103.618	34.383	1.00133.23	C
ATOM	8153	CB	ARG	1048	-9.243	104.074	35.604	1.00133.23	C
ATOM	8154	CG	ARG	1048	-9.927	103.819	36.947	1.00133.23	C
ATOM	8155	CD	ARG	1048	-10.431	105.104	37.595	1.00133.23	C
ATOM	8156	NE	ARG	1048	-10.369	106.163	36.550	1.00133.23	N
ATOM	8157	CZ	ARG	1048	-10.966	107.368	36.770	1.00133.23	C
ATOM	8158	NH1	ARG	1048	-11.635	107.591	37.934	1.00133.23	N
ATOM	8159	NH2	ARG	1048	-10.898	108.351	35.824	1.00133.23	N
ATOM	8160	C	ARG	1048	-9.321	104.058	33.163	1.00133.23	C
ATOM	8161	O	ARG	1048	-8.176	103.672	32.939	1.00133.23	O
ATOM	8162	N	VAL	1049	-9.985	104.878	32.329	1.00105.62	N
ATOM	8163	CA	VAL	1049	-9.414	105.367	31.108	1.00105.62	C
ATOM	8164	CB	VAL	1049	-10.440	105.881	30.142	1.00105.62	C
ATOM	8165	CG1	VAL	1049	-11.160	107.059	30.813	1.00105.62	C
ATOM	8166	CG2	VAL	1049	-9.759	106.248	28.811	1.00105.62	C
ATOM	8167	C	VAL	1049	-8.529	106.505	31.476	1.00105.62	C
ATOM	8168	O	VAL	1049	-8.698	107.094	32.542	1.00105.62	O
ATOM	8169	N	VAL	1050	-7.544	106.825	30.613	1.00 78.32	N
ATOM	8170	CA	VAL	1050	-6.660	107.902	30.938	1.00 78.32	C
ATOM	8171	CB	VAL	1050	-5.452	107.964	30.048	1.00 78.32	C
ATOM	8172	CG1	VAL	1050	-4.623	109.207	30.413	1.00 78.32	C
ATOM	8173	CG2	VAL	1050	-4.684	106.640	30.186	1.00 78.32	C
ATOM	8174	C	VAL	1050	-7.407	109.186	30.777	1.00 78.32	C
ATOM	8175	O	VAL	1050	-7.261	109.891	29.779	1.00 78.32	O
ATOM	8176	N	SER	1051	-8.209	109.543	31.800	1.00 68.31	N
ATOM	8177	CA	SER	1051	-8.966	110.758	31.747	1.00 68.31	C
ATOM	8178	CB	SER	1051	-9.942	110.904	32.928	1.00 68.31	C
ATOM	8179	OG	SER	1051	-10.668	112.120	32.831	1.00 68.31	O
ATOM	8180	C	SER	1051	-7.985	111.885	31.805	1.00 68.31	C
ATOM	8181	O	SER	1051	-7.291	112.075	32.799	1.00 68.31	O
ATOM	8182	N	GLN	1052	-7.929	112.701	30.743	1.00 69.27	N
ATOM	8183	CA	GLN	1052	-6.929	113.729	30.705	1.00 69.27	C
ATOM	8184	CB	GLN	1052	-7.023	114.582	29.430	1.00 69.27	C
ATOM	8185	CG	GLN	1052	-6.006	115.723	29.372	1.00 69.27	C
ATOM	8186	CD	GLN	1052	-6.283	116.530	28.111	1.00 69.27	C
ATOM	8187	OE1	GLN	1052	-7.425	116.638	27.666	1.00 69.27	O
ATOM	8188	NE2	GLN	1052	-5.209	117.118	27.517	1.00 69.27	N
ATOM	8189	C	GLN	1052	-7.120	114.672	31.845	1.00 69.27	C
ATOM	8190	O	GLN	1052	-6.205	114.891	32.636	1.00 69.27	O
ATOM	8191	N	GLU	1053	-8.346	115.191	32.010	1.00136.50	N
ATOM	8192	CA	GLU	1053	-8.592	116.187	33.009	1.00136.50	C
ATOM	8193	CB	GLU	1053	-10.074	116.570	33.100	1.00136.50	C
ATOM	8194	CG	GLU	1053	-10.679	116.922	31.748	1.00136.50	C
ATOM	8195	CD	GLU	1053	-11.105	115.603	31.121	1.00136.50	C
ATOM	8196	OE1	GLU	1053	-12.196	115.102	31.506	1.00136.50	O
ATOM	8197	OE2	GLU	1053	-10.351	115.071	30.264	1.00136.50	O
ATOM	8198	C	GLU	1053	-8.269	115.541	34.302	1.00136.50	C
ATOM	8199	O	GLU	1053	-7.791	116.180	35.238	1.00136.50	O
ATOM	8200	N	GLU	1054	-8.552	114.234	34.403	1.00122.08	N
ATOM	8201	CA	GLU	1054	-8.249	113.656	35.668	1.00122.08	C
ATOM	8202	CB	GLU	1054	-8.766	112.226	35.915	1.00122.08	C
ATOM	8203	CG	GLU	1054	-7.969	111.103	35.260	1.00122.08	C
ATOM	8204	CD	GLU	1054	-8.133	109.881	36.148	1.00122.08	C
ATOM	8205	OE1	GLU	1054	-8.628	110.060	37.292	1.00122.08	O
ATOM	8206	OE2	GLU	1054	-7.748	108.766	35.707	1.00122.08	O
ATOM	8207	C	GLU	1054	-6.762	113.639	35.877	1.00122.08	C

ATOM	8208	O	GLU	1054	-6.289	114.050	36.932	1.00122.08	O
ATOM	8209	N	ILE	1055	-5.968	113.232	34.863	1.00 81.73	N
ATOM	8210	CA	ILE	1055	-4.546	113.135	35.066	1.00 81.73	C
ATOM	8211	CB	ILE	1055	-3.757	112.644	33.877	1.00 81.73	C
ATOM	8212	CG1	ILE	1055	-3.781	113.644	32.712	1.00 81.73	C
ATOM	8213	CG2	ILE	1055	-4.302	111.255	33.509	1.00 81.73	C
ATOM	8214	CD1	ILE	1055	-2.816	113.302	31.578	1.00 81.73	C
ATOM	8215	C	ILE	1055	-4.050	114.499	35.431	1.00 81.73	C
ATOM	8216	O	ILE	1055	-3.071	114.630	36.166	1.00 81.73	O
ATOM	8217	N	VAL	1056	-4.666	115.555	34.861	1.00152.85	N
ATOM	8218	CA	VAL	1056	-4.278	116.883	35.246	1.00152.85	C
ATOM	8219	CB	VAL	1056	-4.676	118.011	34.324	1.00152.85	C
ATOM	8220	CG1	VAL	1056	-3.918	117.833	33.005	1.00152.85	C
ATOM	8221	CG2	VAL	1056	-6.190	118.102	34.154	1.00152.85	C
ATOM	8222	C	VAL	1056	-4.712	117.184	36.647	1.00152.85	C
ATOM	8223	O	VAL	1056	-3.998	117.870	37.377	1.00152.85	O
ATOM	8224	N	ARG	1057	-5.888	116.689	37.083	1.00182.29	N
ATOM	8225	CA	ARG	1057	-6.260	117.012	38.429	1.00182.29	C
ATOM	8226	CB	ARG	1057	-7.692	116.596	38.832	1.00182.29	C
ATOM	8227	CG	ARG	1057	-8.027	115.111	38.747	1.00182.29	C
ATOM	8228	CD	ARG	1057	-9.529	114.833	38.794	1.00182.29	C
ATOM	8229	NE	ARG	1057	-10.166	115.571	37.665	1.00182.29	N
ATOM	8230	CZ	ARG	1057	-11.040	114.924	36.837	1.00182.29	C
ATOM	8231	NH1	ARG	1057	-11.237	113.580	36.973	1.00182.29	N
ATOM	8232	NH2	ARG	1057	-11.715	115.618	35.874	1.00182.29	N
ATOM	8233	C	ARG	1057	-5.239	116.411	39.342	1.00182.29	C
ATOM	8234	O	ARG	1057	-4.869	117.021	40.345	1.00182.29	O
ATOM	8235	N	ALA	1058	-4.743	115.196	39.024	1.00 73.23	N
ATOM	8236	CA	ALA	1058	-3.739	114.628	39.877	1.00 73.23	C
ATOM	8237	CB	ALA	1058	-3.238	113.247	39.451	1.00 73.23	C
ATOM	8238	C	ALA	1058	-2.534	115.494	39.847	1.00 73.23	C
ATOM	8239	O	ALA	1058	-2.099	115.937	40.892	1.00 73.23	O
ATOM	8240	N	ALA	1059	-2.028	115.864	38.659	1.00 59.85	N
ATOM	8241	CA	ALA	1059	-0.815	116.630	38.551	1.00 59.85	C
ATOM	8242	CB	ALA	1059	-0.500	117.045	37.103	1.00 59.85	C
ATOM	8243	C	ALA	1059	-1.012	117.881	39.340	1.00 59.85	C
ATOM	8244	O	ALA	1059	-0.069	118.438	39.904	1.00 59.85	O
ATOM	8245	N	LYS	1060	-2.263	118.365	39.373	1.00195.85	N
ATOM	8246	CA	LYS	1060	-2.532	119.581	40.069	1.00195.85	C
ATOM	8247	CB	LYS	1060	-4.003	119.978	39.871	1.00195.85	C
ATOM	8248	CG	LYS	1060	-4.223	121.484	39.797	1.00195.85	C
ATOM	8249	CD	LYS	1060	-3.687	122.098	38.498	1.00195.85	C
ATOM	8250	CE	LYS	1060	-4.582	121.849	37.279	1.00195.85	C
ATOM	8251	NZ	LYS	1060	-5.815	122.665	37.376	1.00195.85	N
ATOM	8252	C	LYS	1060	-2.256	119.418	41.549	1.00195.85	C
ATOM	8253	O	LYS	1060	-1.304	119.990	42.076	1.00195.85	O
ATOM	8254	N	GLU	1061	-3.017	118.545	42.243	1.00107.98	N
ATOM	8255	CA	GLU	1061	-2.894	118.374	43.671	1.00107.98	C
ATOM	8256	CB	GLU	1061	-3.995	117.491	44.273	1.00107.98	C
ATOM	8257	CG	GLU	1061	-3.876	117.374	45.793	1.00107.98	C
ATOM	8258	CD	GLU	1061	-4.222	118.723	46.409	1.00107.98	C
ATOM	8259	OE1	GLU	1061	-5.356	119.218	46.163	1.00107.98	O
ATOM	8260	OE2	GLU	1061	-3.359	119.277	47.141	1.00107.98	O
ATOM	8261	C	GLU	1061	-1.581	117.733	43.969	1.00107.98	C
ATOM	8262	O	GLU	1061	-1.032	117.851	45.062	1.00107.98	O
ATOM	8263	N	ALA	1062	-1.082	116.977	42.991	1.00 50.24	N
ATOM	8264	CA	ALA	1062	0.145	116.258	43.066	1.00 50.24	C
ATOM	8265	CB	ALA	1062	0.469	115.479	41.780	1.00 50.24	C
ATOM	8266	C	ALA	1062	1.217	117.277	43.256	1.00 50.24	C
ATOM	8267	O	ALA	1062	2.124	117.088	44.062	1.00 50.24	O
ATOM	8268	N	ASN	1063	1.088	118.422	42.558	1.00 88.60	N
ATOM	8269	CA	ASN	1063	2.070	119.469	42.600	1.00 88.60	C
ATOM	8270	CB	ASN	1063	2.554	119.800	44.024	1.00 88.60	C
ATOM	8271	CG	ASN	1063	1.400	120.424	44.799	1.00 88.60	C
ATOM	8272	OD1	ASN	1063	1.468	120.582	46.017	1.00 88.60	O
ATOM	8273	ND2	ASN	1063	0.305	120.782	44.078	1.00 88.60	N
ATOM	8274	C	ASN	1063	3.266	119.041	41.807	1.00 88.60	C
ATOM	8275	O	ASN	1063	4.369	119.556	41.981	1.00 88.60	O
ATOM	8276	N	ILE	1064	3.066	118.025	40.959	1.00163.90	N
ATOM	8277	CA	ILE	1064	3.998	117.533	39.987	1.00163.90	C
ATOM	8278	CB	ILE	1064	3.611	116.171	39.488	1.00163.90	C
ATOM	8279	CG1	ILE	1064	4.836	115.382	38.984	1.00163.90	C
ATOM	8280	CG2	ILE	1064	2.481	116.348	38.463	1.00163.90	C
ATOM	8281	CD1	ILE	1064	5.668	116.043	37.891	1.00163.90	C



ATOM	8282	C	ILE	1064	3.939	118.513	38.853	1.00163.90	C
ATOM	8283	O	ILE	1064	4.847	118.643	38.033	1.00163.90	O
ATOM	8284	N	HIS	1065	2.799	119.222	38.785	1.00 89.47	N
ATOM	8285	CA	HIS	1065	2.436	120.094	37.710	1.00 89.47	C
ATOM	8286	ND1	HIS	1065	1.112	122.340	35.881	1.00 89.47	N
ATOM	8287	CG	HIS	1065	0.516	121.432	36.728	1.00 89.47	C
ATOM	8288	CB	HIS	1065	1.145	120.891	37.981	1.00 89.47	C
ATOM	8289	NE2	HIS	1065	-0.881	121.873	35.009	1.00 89.47	N
ATOM	8290	CD2	HIS	1065	-0.701	121.159	36.180	1.00 89.47	C
ATOM	8291	CE1	HIS	1065	0.234	122.568	34.871	1.00 89.47	C
ATOM	8292	C	HIS	1065	3.539	121.083	37.492	1.00 89.47	C
ATOM	8293	O	HIS	1065	3.688	121.587	36.381	1.00 89.47	O
ATOM	8294	N	ALA	1066	4.343	121.388	38.533	1.00 46.00	N
ATOM	8295	CA	ALA	1066	5.401	122.349	38.379	1.00 46.00	C
ATOM	8296	CB	ALA	1066	6.296	122.464	39.625	1.00 46.00	C
ATOM	8297	C	ALA	1066	6.262	121.891	37.236	1.00 46.00	C
ATOM	8298	O	ALA	1066	6.717	122.708	36.439	1.00 46.00	O
ATOM	8299	N	PHE	1067	6.534	120.575	37.146	1.00 85.13	N
ATOM	8300	CA	PHE	1067	7.237	120.010	36.024	1.00 85.13	C
ATOM	8301	CB	PHE	1067	7.719	118.565	36.238	1.00 85.13	C
ATOM	8302	CG	PHE	1067	8.941	118.600	37.084	1.00 85.13	C
ATOM	8303	CD1	PHE	1067	8.850	118.799	38.440	1.00 85.13	C
ATOM	8304	CD2	PHE	1067	10.180	118.418	36.515	1.00 85.13	C
ATOM	8305	CE1	PHE	1067	9.983	118.826	39.219	1.00 85.13	C
ATOM	8306	CE2	PHE	1067	11.317	118.444	37.287	1.00 85.13	C
ATOM	8307	CZ	PHE	1067	11.218	118.649	38.642	1.00 85.13	C
ATOM	8308	C	PHE	1067	6.340	119.987	34.825	1.00 85.13	C
ATOM	8309	O	PHE	1067	6.789	120.142	33.692	1.00 85.13	O
ATOM	8310	N	ILE	1068	5.036	119.751	35.050	1.00121.09	N
ATOM	8311	CA	ILE	1068	4.081	119.579	33.992	1.00121.09	C
ATOM	8312	CB	ILE	1068	2.713	119.278	34.519	1.00121.09	C
ATOM	8313	CG1	ILE	1068	2.747	117.986	35.342	1.00121.09	C
ATOM	8314	CG2	ILE	1068	1.739	119.255	33.331	1.00121.09	C
ATOM	8315	CD1	ILE	1068	3.327	116.806	34.574	1.00121.09	C
ATOM	8316	C	ILE	1068	3.941	120.815	33.164	1.00121.09	C
ATOM	8317	O	ILE	1068	3.871	120.740	31.939	1.00121.09	O
ATOM	8318	N	GLU	1069	3.868	121.993	33.799	1.00112.59	N
ATOM	8319	CA	GLU	1069	3.611	123.159	33.013	1.00112.59	C
ATOM	8320	CB	GLU	1069	3.400	124.399	33.896	1.00112.59	C
ATOM	8321	CG	GLU	1069	4.544	124.656	34.875	1.00112.59	C
ATOM	8322	CD	GLU	1069	4.077	125.723	35.852	1.00112.59	C
ATOM	8323	OE1	GLU	1069	3.004	125.515	36.478	1.00112.59	O
ATOM	8324	OE2	GLU	1069	4.786	126.755	35.991	1.00112.59	O
ATOM	8325	C	GLU	1069	4.709	123.424	32.014	1.00112.59	C
ATOM	8326	O	GLU	1069	4.426	123.554	30.825	1.00112.59	O
ATOM	8327	N	SER	1070	5.979	123.550	32.461	1.00134.55	N
ATOM	8328	CA	SER	1070	7.080	123.842	31.575	1.00134.55	C
ATOM	8329	CB	SER	1070	8.277	124.457	32.320	1.00134.55	C
ATOM	8330	OG	SER	1070	7.887	125.667	32.949	1.00134.55	O
ATOM	8331	C	SER	1070	7.613	122.654	30.840	1.00134.55	C
ATOM	8332	O	SER	1070	7.242	122.386	29.696	1.00134.55	O
ATOM	8333	N	LEU	1071	8.448	121.893	31.590	1.00194.57	N
ATOM	8334	CA	LEU	1071	9.296	120.783	31.240	1.00194.57	C
ATOM	8335	CB	LEU	1071	9.191	119.665	32.292	1.00194.57	C
ATOM	8336	CG	LEU	1071	10.267	118.575	32.200	1.00194.57	C
ATOM	8337	CD1	LEU	1071	10.172	117.772	30.895	1.00194.57	C
ATOM	8338	CD2	LEU	1071	11.652	119.186	32.443	1.00194.57	C
ATOM	8339	C	LEU	1071	8.892	120.252	29.904	1.00194.57	C
ATOM	8340	O	LEU	1071	7.738	119.891	29.678	1.00194.57	O
ATOM	8341	N	PRO	1072	9.855	120.194	29.022	1.00 87.50	N
ATOM	8342	CA	PRO	1072	9.654	119.885	27.636	1.00 87.50	C
ATOM	8343	CD	PRO	1072	11.249	120.406	29.363	1.00 87.50	C
ATOM	8344	CB	PRO	1072	11.053	119.744	27.038	1.00 87.50	C
ATOM	8345	CG	PRO	1072	11.958	120.534	28.005	1.00 87.50	C
ATOM	8346	C	PRO	1072	8.810	118.670	27.469	1.00 87.50	C
ATOM	8347	O	PRO	1072	8.916	117.753	28.277	1.00 87.50	O
ATOM	8348	N	ASN	1073	7.928	118.690	26.453	1.00 83.08	N
ATOM	8349	CA	ASN	1073	7.031	117.620	26.129	1.00 83.08	C
ATOM	8350	CB	ASN	1073	7.726	116.272	25.846	1.00 83.08	C
ATOM	8351	CG	ASN	1073	8.142	116.248	24.380	1.00 83.08	C
ATOM	8352	OD1	ASN	1073	7.298	116.229	23.485	1.00 83.08	O
ATOM	8353	ND2	ASN	1073	9.477	116.243	24.121	1.00 83.08	N
ATOM	8354	C	ASN	1073	6.039	117.429	27.227	1.00 83.08	C
ATOM	8355	O	ASN	1073	5.136	116.606	27.087	1.00 83.08	O

ATOM	8356	N	LYS	1074	6.140	118.236	28.305	1.00110.77	N
ATOM	8357	CA	LYS	1074	5.196	118.206	29.390	1.00110.77	C
ATOM	8358	CB	LYS	1074	3.915	118.982	29.055	1.00110.77	C
ATOM	8359	CG	LYS	1074	4.227	120.450	28.769	1.00110.77	C
ATOM	8360	CD	LYS	1074	3.066	121.238	28.171	1.00110.77	C
ATOM	8361	CE	LYS	1074	3.449	122.670	27.796	1.00110.77	C
ATOM	8362	NZ	LYS	1074	2.240	123.427	27.408	1.00110.77	N
ATOM	8363	C	LYS	1074	4.846	116.795	29.781	1.00110.77	C
ATOM	8364	O	LYS	1074	5.717	115.938	29.930	1.00110.77	O
ATOM	8365	N	TYR	1075	3.531	116.515	29.901	1.00166.35	N
ATOM	8366	CA	TYR	1075	3.037	115.235	30.344	1.00166.35	C
ATOM	8367	CB	TYR	1075	1.502	115.048	30.287	1.00166.35	C
ATOM	8368	CG	TYR	1075	0.776	115.888	31.287	1.00166.35	C
ATOM	8369	CD1	TYR	1075	0.801	115.568	32.627	1.00166.35	C
ATOM	8370	CD2	TYR	1075	0.072	117.002	30.887	1.00166.35	C
ATOM	8371	CE1	TYR	1075	0.128	116.340	33.546	1.00166.35	C
ATOM	8372	CE2	TYR	1075	-0.605	117.776	31.800	1.00166.35	C
ATOM	8373	CZ	TYR	1075	-0.579	117.445	33.133	1.00166.35	C
ATOM	8374	OH	TYR	1075	-1.271	118.238	34.074	1.00166.35	O
ATOM	8375	C	TYR	1075	3.579	114.163	29.451	1.00166.35	C
ATOM	8376	O	TYR	1075	3.840	113.047	29.902	1.00166.35	O
ATOM	8377	N	SER	1076	3.738	114.470	28.153	1.00 44.27	N
ATOM	8378	CA	SER	1076	4.155	113.495	27.185	1.00 44.27	C
ATOM	8379	CB	SER	1076	4.239	114.064	25.760	1.00 44.27	C
ATOM	8380	OG	SER	1076	2.941	114.413	25.304	1.00 44.27	O
ATOM	8381	C	SER	1076	5.510	112.961	27.526	1.00 44.27	C
ATOM	8382	O	SER	1076	5.867	111.871	27.079	1.00 44.27	O
ATOM	8383	N	THR	1077	6.303	113.701	28.326	1.00 55.27	N
ATOM	8384	CA	THR	1077	7.627	113.235	28.631	1.00 55.27	C
ATOM	8385	CB	THR	1077	8.346	114.074	29.633	1.00 55.27	C
ATOM	8386	OG1	THR	1077	8.420	115.409	29.174	1.00 55.27	O
ATOM	8387	CG2	THR	1077	9.760	113.501	29.822	1.00 55.27	C
ATOM	8388	C	THR	1077	7.540	111.885	29.246	1.00 55.27	C
ATOM	8389	O	THR	1077	6.929	111.686	30.294	1.00 55.27	O
ATOM	8390	N	LYS	1078	8.188	110.906	28.600	1.00126.85	N
ATOM	8391	CA	LYS	1078	8.149	109.594	29.158	1.00126.85	C
ATOM	8392	CB	LYS	1078	8.684	108.478	28.237	1.00126.85	C
ATOM	8393	CG	LYS	1078	10.195	108.498	28.004	1.00126.85	C
ATOM	8394	CD	LYS	1078	10.719	107.234	27.312	1.00126.85	C
ATOM	8395	CE	LYS	1078	10.341	105.933	28.027	1.00126.85	C
ATOM	8396	NZ	LYS	1078	10.978	104.780	27.354	1.00126.85	N
ATOM	8397	C	LYS	1078	8.993	109.655	30.378	1.00126.85	C
ATOM	8398	O	LYS	1078	9.741	110.606	30.592	1.00126.85	O
ATOM	8399	N	VAL	1079	8.903	108.618	31.216	1.00144.37	N
ATOM	8400	CA	VAL	1079	9.659	108.564	32.422	1.00144.37	C
ATOM	8401	CB	VAL	1079	9.376	107.301	33.183	1.00144.37	C
ATOM	8402	CG1	VAL	1079	9.582	106.088	32.271	1.00144.37	C
ATOM	8403	CG2	VAL	1079	10.253	107.286	34.431	1.00144.37	C
ATOM	8404	C	VAL	1079	11.098	108.690	32.019	1.00144.37	C
ATOM	8405	O	VAL	1079	11.935	109.128	32.806	1.00144.37	O
ATOM	8406	N	GLY	1080	11.426	108.302	30.769	1.00 67.09	N
ATOM	8407	CA	GLY	1080	12.742	108.539	30.255	1.00 67.09	C
ATOM	8408	C	GLY	1080	13.750	107.612	30.848	1.00 67.09	C
ATOM	8409	O	GLY	1080	14.379	107.921	31.856	1.00 67.09	O
ATOM	8410	N	ASP	1081	13.944	106.450	30.194	1.00 80.46	N
ATOM	8411	CA	ASP	1081	14.922	105.495	30.622	1.00 80.46	C
ATOM	8412	CB	ASP	1081	16.338	106.099	30.665	1.00 80.46	C
ATOM	8413	CG	ASP	1081	17.358	104.969	30.724	1.00 80.46	C
ATOM	8414	OD1	ASP	1081	16.956	103.818	31.039	1.00 80.46	O
ATOM	8415	OD2	ASP	1081	18.555	105.243	30.443	1.00 80.46	O
ATOM	8416	C	ASP	1081	14.569	104.980	31.979	1.00 80.46	C
ATOM	8417	O	ASP	1081	15.418	104.846	32.858	1.00 80.46	O
ATOM	8418	N	LYS	1082	13.280	104.644	32.150	1.00220.79	N
ATOM	8419	CA	LYS	1082	12.714	104.053	33.328	1.00220.79	C
ATOM	8420	CB	LYS	1082	13.179	102.622	33.685	1.00220.79	C
ATOM	8421	CG	LYS	1082	14.636	102.262	33.397	1.00220.79	C
ATOM	8422	CD	LYS	1082	14.904	102.070	31.905	1.00220.79	C
ATOM	8423	CE	LYS	1082	14.046	100.972	31.283	1.00220.79	C
ATOM	8424	NZ	LYS	1082	13.618	101.379	29.925	1.00220.79	N
ATOM	8425	C	LYS	1082	12.822	104.919	34.535	1.00220.79	C
ATOM	8426	O	LYS	1082	12.640	104.426	35.648	1.00220.79	O
ATOM	8427	N	GLY	1083	13.022	106.241	34.358	1.00 66.62	N
ATOM	8428	CA	GLY	1083	12.968	107.079	35.520	1.00 66.62	C
ATOM	8429	C	GLY	1083	14.085	108.069	35.630	1.00 66.62	C

ATOM	8430	O	GLY	1083	13.794	109.260	35.698	1.00	66.62	O
ATOM	8431	N	THR	1084	15.361	107.634	35.588	1.00	154.94	N
ATOM	8432	CA	THR	1084	16.496	108.476	35.866	1.00	154.94	C
ATOM	8433	CB	THR	1084	17.791	107.821	35.468	1.00	154.94	C
ATOM	8434	OG1	THR	1084	17.811	107.554	34.071	1.00	154.94	O
ATOM	8435	CG2	THR	1084	17.922	106.501	36.241	1.00	154.94	C
ATOM	8436	C	THR	1084	16.420	109.794	35.152	1.00	154.94	C
ATOM	8437	O	THR	1084	16.827	109.929	33.999	1.00	154.94	O
ATOM	8438	N	GLN	1085	15.888	110.821	35.845	1.00	144.66	N
ATOM	8439	CA	GLN	1085	15.884	112.134	35.278	1.00	144.66	C
ATOM	8440	CB	GLN	1085	15.273	112.218	33.873	1.00	144.66	C
ATOM	8441	CG	GLN	1085	13.775	111.927	33.827	1.00	144.66	C
ATOM	8442	CD	GLN	1085	13.298	112.423	32.474	1.00	144.66	C
ATOM	8443	OE1	GLN	1085	14.103	112.825	31.635	1.00	144.66	O
ATOM	8444	NE2	GLN	1085	11.956	112.411	32.255	1.00	144.66	N
ATOM	8445	C	GLN	1085	15.049	113.013	36.150	1.00	144.66	C
ATOM	8446	O	GLN	1085	14.703	114.126	35.756	1.00	144.66	O
ATOM	8447	N	LEU	1086	14.686	112.539	37.358	1.00	82.51	N
ATOM	8448	CA	LEU	1086	13.886	113.355	38.224	1.00	82.51	C
ATOM	8449	CB	LEU	1086	12.375	113.241	37.962	1.00	82.51	C
ATOM	8450	CG	LEU	1086	11.902	113.911	36.661	1.00	82.51	C
ATOM	8451	CD1	LEU	1086	10.387	113.742	36.488	1.00	82.51	C
ATOM	8452	CD2	LEU	1086	12.315	115.390	36.614	1.00	82.51	C
ATOM	8453	C	LEU	1086	14.116	112.942	39.645	1.00	82.51	C
ATOM	8454	O	LEU	1086	14.221	111.756	39.957	1.00	82.51	O
ATOM	8455	N	SER	1087	14.164	113.936	40.554	1.00	37.41	N
ATOM	8456	CA	SER	1087	14.400	113.668	41.939	1.00	37.41	C
ATOM	8457	CB	SER	1087	14.641	114.932	42.782	1.00	37.41	C
ATOM	8458	OG	SER	1087	14.864	114.579	44.139	1.00	37.41	O
ATOM	8459	C	SER	1087	13.207	112.959	42.483	1.00	37.41	C
ATOM	8460	O	SER	1087	12.122	112.989	41.906	1.00	37.41	O
ATOM	8461	N	GLY	1088	13.404	112.289	43.629	1.00	35.76	N
ATOM	8462	CA	GLY	1088	12.381	111.509	44.257	1.00	35.76	C
ATOM	8463	C	GLY	1088	11.253	112.411	44.640	1.00	35.76	C
ATOM	8464	O	GLY	1088	10.100	111.981	44.670	1.00	35.76	O
ATOM	8465	N	GLY	1089	11.558	113.681	44.979	1.00	38.22	N
ATOM	8466	CA	GLY	1089	10.508	114.545	45.429	1.00	38.22	C
ATOM	8467	C	GLY	1089	9.461	114.645	44.366	1.00	38.22	C
ATOM	8468	O	GLY	1089	8.281	114.431	44.635	1.00	38.22	O
ATOM	8469	N	GLN	1090	9.862	114.938	43.116	1.00	146.67	N
ATOM	8470	CA	GLN	1090	8.889	115.032	42.064	1.00	146.67	C
ATOM	8471	CB	GLN	1090	9.431	115.627	40.744	1.00	146.67	C
ATOM	8472	CG	GLN	1090	10.681	114.964	40.172	1.00	146.67	C
ATOM	8473	CD	GLN	1090	11.892	115.695	40.753	1.00	146.67	C
ATOM	8474	OE1	GLN	1090	12.043	115.818	41.967	1.00	146.67	O
ATOM	8475	NE2	GLN	1090	12.775	116.213	39.858	1.00	146.67	N
ATOM	8476	C	GLN	1090	8.270	113.686	41.856	1.00	146.67	C
ATOM	8477	O	GLN	1090	7.073	113.579	41.590	1.00	146.67	O
ATOM	8478	N	LYS	1091	9.065	112.614	42.022	1.00	125.51	N
ATOM	8479	CA	LYS	1091	8.554	111.285	41.829	1.00	125.51	C
ATOM	8480	CB	LYS	1091	9.563	110.199	42.245	1.00	125.51	C
ATOM	8481	CG	LYS	1091	10.842	110.118	41.408	1.00	125.51	C
ATOM	8482	CD	LYS	1091	10.615	109.687	39.959	1.00	125.51	C
ATOM	8483	CE	LYS	1091	11.912	109.398	39.199	1.00	125.51	C
ATOM	8484	NZ	LYS	1091	12.426	108.062	39.577	1.00	125.51	N
ATOM	8485	C	LYS	1091	7.385	111.099	42.748	1.00	125.51	C
ATOM	8486	O	LYS	1091	6.315	110.669	42.322	1.00	125.51	O
ATOM	8487	N	GLN	1092	7.546	111.466	44.034	1.00	57.14	N
ATOM	8488	CA	GLN	1092	6.498	111.266	44.996	1.00	57.14	C
ATOM	8489	CB	GLN	1092	6.882	111.690	46.419	1.00	57.14	C
ATOM	8490	CG	GLN	1092	7.942	110.778	47.037	1.00	57.14	C
ATOM	8491	CD	GLN	1092	7.340	109.382	47.147	1.00	57.14	C
ATOM	8492	OE1	GLN	1092	6.970	108.772	46.145	1.00	57.14	O
ATOM	8493	NE2	GLN	1092	7.229	108.859	48.398	1.00	57.14	N
ATOM	8494	C	GLN	1092	5.322	112.078	44.577	1.00	57.14	C
ATOM	8495	O	GLN	1092	4.177	111.697	44.816	1.00	57.14	O
ATOM	8496	N	ARG	1093	5.570	113.237	43.949	1.00	108.03	N
ATOM	8497	CA	ARG	1093	4.466	114.034	43.512	1.00	108.03	C
ATOM	8498	CB	ARG	1093	4.929	115.290	42.751	1.00	108.03	C
ATOM	8499	CG	ARG	1093	5.570	116.364	43.639	1.00	108.03	C
ATOM	8500	CD	ARG	1093	6.335	117.424	42.840	1.00	108.03	C
ATOM	8501	NE	ARG	1093	6.654	118.561	43.751	1.00	108.03	N
ATOM	8502	CZ	ARG	1093	7.743	118.517	44.573	1.00	108.03	C
ATOM	8503	NH1	ARG	1093	8.510	117.389	44.636	1.00	108.03	N

ATOM	8504	NH2	ARG	1093	8.059	119.606	45.335	1.00108.03	N
ATOM	8505	C	ARG	1093	3.650	113.194	42.568	1.00108.03	C
ATOM	8506	O	ARG	1093	2.422	113.183	42.637	1.00108.03	O
ATOM	8507	N	ILE	1094	4.314	112.457	41.659	1.00 62.96	N
ATOM	8508	CA	ILE	1094	3.609	111.655	40.691	1.00 62.96	C
ATOM	8509	CB	ILE	1094	4.526	111.016	39.690	1.00 62.96	C
ATOM	8510	CG1	ILE	1094	5.389	112.080	38.995	1.00 62.96	C
ATOM	8511	CG2	ILE	1094	3.662	110.209	38.706	1.00 62.96	C
ATOM	8512	CD1	ILE	1094	6.541	111.491	38.180	1.00 62.96	C
ATOM	8513	C	ILE	1094	2.874	110.530	41.364	1.00 62.96	C
ATOM	8514	O	ILE	1094	1.695	110.303	41.091	1.00 62.96	O
ATOM	8515	N	ALA	1095	3.546	109.817	42.293	1.00 49.26	N
ATOM	8516	CA	ALA	1095	2.964	108.650	42.900	1.00 49.26	C
ATOM	8517	CB	ALA	1095	3.865	108.033	43.982	1.00 49.26	C
ATOM	8518	C	ALA	1095	1.697	109.079	43.553	1.00 49.26	C
ATOM	8519	O	ALA	1095	0.666	108.421	43.435	1.00 49.26	O
ATOM	8520	N	ILE	1096	1.740	110.234	44.229	1.00108.39	N
ATOM	8521	CA	ILE	1096	0.592	110.760	44.900	1.00108.39	C
ATOM	8522	CB	ILE	1096	0.883	112.074	45.563	1.00108.39	C
ATOM	8523	CG1	ILE	1096	1.968	111.895	46.638	1.00108.39	C
ATOM	8524	CG2	ILE	1096	-0.440	112.652	46.087	1.00108.39	C
ATOM	8525	CD1	ILE	1096	1.608	110.865	47.707	1.00108.39	C
ATOM	8526	C	ILE	1096	-0.443	111.005	43.866	1.00108.39	C
ATOM	8527	O	ILE	1096	-1.630	110.776	44.102	1.00108.39	O
ATOM	8528	N	ALA	1097	-0.007	111.490	42.688	1.00 82.03	N
ATOM	8529	CA	ALA	1097	-0.964	111.766	41.668	1.00 82.03	C
ATOM	8530	CB	ALA	1097	-0.318	112.236	40.353	1.00 82.03	C
ATOM	8531	C	ALA	1097	-1.677	110.497	41.393	1.00 82.03	C
ATOM	8532	O	ALA	1097	-2.869	110.449	41.679	1.00 82.03	O
ATOM	8533	N	ARG	1098	-0.937	109.405	41.079	1.00207.99	N
ATOM	8534	CA	ARG	1098	-1.557	108.176	40.654	1.00207.99	C
ATOM	8535	CB	ARG	1098	-0.622	106.961	40.464	1.00207.99	C
ATOM	8536	CG	ARG	1098	-0.007	106.389	41.740	1.00207.99	C
ATOM	8537	CD	ARG	1098	0.486	104.947	41.595	1.00207.99	C
ATOM	8538	NE	ARG	1098	1.974	104.957	41.598	1.00207.99	N
ATOM	8539	CZ	ARG	1098	2.663	103.804	41.357	1.00207.99	C
ATOM	8540	NH1	ARG	1098	2.001	102.686	40.938	1.00207.99	N
ATOM	8541	NH2	ARG	1098	4.015	103.766	41.533	1.00207.99	N
ATOM	8542	C	ARG	1098	-2.550	107.800	41.703	1.00207.99	C
ATOM	8543	O	ARG	1098	-3.670	107.413	41.386	1.00207.99	O
ATOM	8544	N	ALA	1099	-2.191	107.979	42.988	1.00 81.60	N
ATOM	8545	CA	ALA	1099	-3.149	107.667	44.009	1.00 81.60	C
ATOM	8546	CB	ALA	1099	-2.563	107.802	45.424	1.00 81.60	C
ATOM	8547	C	ALA	1099	-4.351	108.567	43.952	1.00 81.60	C
ATOM	8548	O	ALA	1099	-5.467	108.109	43.731	1.00 81.60	O
ATOM	8549	N	LEU	1100	-4.158	109.894	44.023	1.00161.17	N
ATOM	8550	CA	LEU	1100	-5.272	110.805	44.052	1.00161.17	C
ATOM	8551	CB	LEU	1100	-4.863	112.284	44.180	1.00161.17	C
ATOM	8552	CG	LEU	1100	-4.414	112.659	45.603	1.00161.17	C
ATOM	8553	CD1	LEU	1100	-3.254	111.774	46.064	1.00161.17	C
ATOM	8554	CD2	LEU	1100	-4.104	114.159	45.738	1.00161.17	C
ATOM	8555	C	LEU	1100	-6.053	110.668	42.781	1.00161.17	C
ATOM	8556	O	LEU	1100	-7.183	111.141	42.703	1.00161.17	O
ATOM	8557	N	VAL	1101	-5.439	110.165	41.695	1.00170.40	N
ATOM	8558	CA	VAL	1101	-6.207	109.940	40.494	1.00170.40	C
ATOM	8559	CB	VAL	1101	-5.516	109.817	39.153	1.00170.40	C
ATOM	8560	CG1	VAL	1101	-5.197	111.223	38.662	1.00170.40	C
ATOM	8561	CG2	VAL	1101	-4.282	108.915	39.207	1.00170.40	C
ATOM	8562	C	VAL	1101	-7.128	108.781	40.652	1.00170.40	C
ATOM	8563	O	VAL	1101	-8.165	108.718	39.998	1.00170.40	O
ATOM	8564	N	ARG	1102	-6.738	107.805	41.482	1.00144.88	N
ATOM	8565	CA	ARG	1102	-7.531	106.654	41.785	1.00144.88	C
ATOM	8566	CB	ARG	1102	-6.759	105.582	42.575	1.00144.88	C
ATOM	8567	CG	ARG	1102	-7.455	104.219	42.573	1.00144.88	C
ATOM	8568	CD	ARG	1102	-6.638	103.085	43.200	1.00144.88	C
ATOM	8569	NE	ARG	1102	-5.510	102.743	42.285	1.00144.88	N
ATOM	8570	CZ	ARG	1102	-4.291	103.344	42.422	1.00144.88	C
ATOM	8571	NH1	ARG	1102	-4.107	104.321	43.357	1.00144.88	N
ATOM	8572	NH2	ARG	1102	-3.253	102.949	41.627	1.00144.88	N
ATOM	8573	C	ARG	1102	-8.713	107.116	42.589	1.00144.88	C
ATOM	8574	O	ARG	1102	-9.736	106.435	42.656	1.00144.88	O
ATOM	8575	N	GLN	1103	-8.605	108.302	43.225	1.00144.37	N
ATOM	8576	CA	GLN	1103	-9.632	108.759	44.124	1.00144.37	C
ATOM	8577	CB	GLN	1103	-10.954	109.207	43.462	1.00144.37	C

ATOM	8578	CG	GLN	1103	-11.055	110.696	43.104	1.00144.37
ATOM	8579	CD	GLN	1103	-10.300	111.004	41.828	1.00144.37
ATOM	8580	OE1	GLN	1103	-9.289	110.375	41.537	1.00144.37
ATOM	8581	NE2	GLN	1103	-10.795	111.997	41.042	1.00144.37
ATOM	8582	C	GLN	1103	-9.972	107.693	45.127	1.00144.37
ATOM	8583	O	GLN	1103	-11.069	107.137	45.072	1.00144.37
ATOM	8584	N	PRO	1104	-9.072	107.374	46.040	1.00130.19
ATOM	8585	CA	PRO	1104	-9.351	106.386	47.050	1.00130.19
ATOM	8586	CD	PRO	1104	-7.638	107.452	45.781	1.00130.19
ATOM	8587	CB	PRO	1104	-8.002	105.929	47.603	1.00130.19
ATOM	8588	CG	PRO	1104	-7.009	106.241	46.479	1.00130.19
ATOM	8589	C	PRO	1104	-10.188	106.987	48.132	1.00130.19
ATOM	8590	O	PRO	1104	-10.701	108.088	47.944	1.00130.19
ATOM	8591	N	HIS	1105	-10.570	106.168	49.124	1.00133.19
ATOM	8592	CA	HIS	1105	-11.158	106.579	50.365	1.00133.19
ATOM	8593	ND1	HIS	1105	-13.288	105.722	48.267	1.00133.19
ATOM	8594	CG	HIS	1105	-13.437	106.073	49.590	1.00133.19
ATOM	8595	CB	HIS	1105	-12.423	105.769	50.654	1.00133.19
ATOM	8596	NE2	HIS	1105	-15.211	106.826	48.416	1.00133.19
ATOM	8597	CD2	HIS	1105	-14.619	106.746	49.663	1.00133.19
ATOM	8598	CE1	HIS	1105	-14.375	106.197	47.609	1.00133.19
ATOM	8599	C	HIS	1105	-10.190	106.514	51.519	1.00133.19
ATOM	8600	O	HIS	1105	-10.333	107.210	52.523	1.00133.19
ATOM	8601	N	ILE	1106	-9.200	105.606	51.427	1.00134.96
ATOM	8602	CA	ILE	1106	-8.283	105.347	52.504	1.00134.96
ATOM	8603	CB	ILE	1106	-8.396	103.916	52.980	1.00134.96
ATOM	8604	CG1	ILE	1106	-7.845	103.694	54.403	1.00134.96
ATOM	8605	CG2	ILE	1106	-7.743	103.021	51.912	1.00134.96
ATOM	8606	CD1	ILE	1106	-6.327	103.756	54.545	1.00134.96
ATOM	8607	C	ILE	1106	-6.918	105.582	51.922	1.00134.96
ATOM	8608	O	ILE	1106	-6.783	105.589	50.700	1.00134.96
ATOM	8609	N	LEU	1107	-5.887	105.875	52.752	1.00 89.61
ATOM	8610	CA	LEU	1107	-4.570	106.075	52.196	1.00 89.61
ATOM	8611	CB	LEU	1107	-4.157	107.557	52.077	1.00 89.61
ATOM	8612	CG	LEU	1107	-5.057	108.423	51.170	1.00 89.61
ATOM	8613	CD1	LEU	1107	-4.474	109.836	51.015	1.00 89.61
ATOM	8614	CD2	LEU	1107	-5.330	107.751	49.816	1.00 89.61
ATOM	8615	C	LEU	1107	-3.525	105.419	53.060	1.00 89.61
ATOM	8616	O	LEU	1107	-3.590	105.454	54.284	1.00 89.61
ATOM	8617	N	LEU	1108	-2.519	104.784	52.432	1.00 79.35
ATOM	8618	CA	LEU	1108	-1.432	104.195	53.150	1.00 79.35
ATOM	8619	CB	LEU	1108	-1.155	102.737	52.741	1.00 79.35
ATOM	8620	CG	LEU	1108	-2.336	101.782	53.012	1.00 79.35
ATOM	8621	CD1	LEU	1108	-2.008	100.341	52.586	1.00 79.35
ATOM	8622	CD2	LEU	1108	-2.799	101.872	54.473	1.00 79.35
ATOM	8623	C	LEU	1108	-0.214	104.995	52.819	1.00 79.35
ATOM	8624	O	LEU	1108	0.420	104.801	51.781	1.00 79.35
ATOM	8625	N	LEU	1109	0.154	105.925	53.715	1.00143.17
ATOM	8626	CA	LEU	1109	1.317	106.709	53.449	1.00143.17
ATOM	8627	CB	LEU	1109	1.068	108.200	53.708	1.00143.17
ATOM	8628	CG	LEU	1109	0.145	108.806	52.623	1.00143.17
ATOM	8629	CD1	LEU	1109	-1.196	108.071	52.492	1.00143.17
ATOM	8630	CD2	LEU	1109	-0.098	110.286	52.875	1.00143.17
ATOM	8631	C	LEU	1109	2.410	106.139	54.294	1.00143.17
ATOM	8632	O	LEU	1109	2.578	106.487	55.462	1.00143.17
ATOM	8633	N	ASP	1110	3.197	105.241	53.666	1.00 76.74
ATOM	8634	CA	ASP	1110	4.217	104.457	54.302	1.00 76.74
ATOM	8635	CB	ASP	1110	4.461	103.130	53.558	1.00 76.74
ATOM	8636	CG	ASP	1110	5.421	102.223	54.323	1.00 76.74
ATOM	8637	OD1	ASP	1110	6.156	102.709	55.224	1.00 76.74
ATOM	8638	OD2	ASP	1110	5.430	101.007	53.994	1.00 76.74
ATOM	8639	C	ASP	1110	5.501	105.207	54.313	1.00 76.74
ATOM	8640	O	ASP	1110	6.334	104.997	53.430	1.00 76.74
ATOM	8641	N	GLU	1111	5.666	106.091	55.324	1.00 98.05
ATOM	8642	CA	GLU	1111	6.862	106.860	55.536	1.00 98.05
ATOM	8643	CB	GLU	1111	8.062	106.032	56.016	1.00 98.05
ATOM	8644	CG	GLU	1111	7.922	105.440	57.412	1.00 98.05
ATOM	8645	CD	GLU	1111	9.234	104.728	57.683	1.00 98.05
ATOM	8646	OE1	GLU	1111	9.518	103.723	56.980	1.00 98.05
ATOM	8647	OE2	GLU	1111	9.980	105.191	58.588	1.00 98.05
ATOM	8648	C	GLU	1111	7.285	107.408	54.226	1.00 98.05
ATOM	8649	O	GLU	1111	8.489	107.433	53.969	1.00 98.05
ATOM	8650	N	ALA	1112	6.324	107.914	53.415	1.00 76.37
ATOM	8651	CA	ALA	1112	6.624	108.208	52.042	1.00 76.37

ATOM	8652	CB	ALA	1112	5.460	108.902	51.314	1.00	76.37	C
ATOM	8653	C	ALA	1112	7.811	109.111	51.963	1.00	76.37	C
ATOM	8654	O	ALA	1112	8.851	108.680	51.469	1.00	76.37	O
ATOM	8655	N	THR	1113	7.764	110.301	52.589	1.00	84.80	N
ATOM	8656	CA	THR	1113	8.919	111.151	52.516	1.00	84.80	C
ATOM	8657	CB	THR	1113	8.579	112.610	52.567	1.00	84.80	C
ATOM	8658	OG1	THR	1113	7.877	112.917	53.762	1.00	84.80	O
ATOM	8659	CG2	THR	1113	7.700	112.937	51.351	1.00	84.80	C
ATOM	8660	C	THR	1113	9.794	110.818	53.684	1.00	84.80	C
ATOM	8661	O	THR	1113	9.699	111.395	54.769	1.00	84.80	O
ATOM	8662	N	SER	1114	10.583	109.746	53.502	1.00	92.87	N
ATOM	8663	CA	SER	1114	11.576	109.305	54.430	1.00	92.87	C
ATOM	8664	CB	SER	1114	11.697	107.774	54.453	1.00	92.87	C
ATOM	8665	OG	SER	1114	12.611	107.378	55.463	1.00	92.87	O
ATOM	8666	C	SER	1114	12.900	109.862	54.029	1.00	92.87	C
ATOM	8667	O	SER	1114	13.829	109.887	54.830	1.00	92.87	O
ATOM	8668	N	ALA	1115	13.055	110.233	52.744	1.00	64.18	N
ATOM	8669	CA	ALA	1115	14.294	110.814	52.317	1.00	64.18	C
ATOM	8670	CB	ALA	1115	15.230	109.819	51.618	1.00	64.18	C
ATOM	8671	C	ALA	1115	13.952	111.867	51.317	1.00	64.18	C
ATOM	8672	O	ALA	1115	13.488	111.563	50.217	1.00	64.18	O
ATOM	8673	N	LEU	1116	14.200	113.140	51.680	1.00	211.40	N
ATOM	8674	CA	LEU	1116	13.901	114.256	50.829	1.00	211.40	C
ATOM	8675	CB	LEU	1116	12.453	114.786	50.865	1.00	211.40	C
ATOM	8676	CG	LEU	1116	11.374	113.937	50.185	1.00	211.40	C
ATOM	8677	CD1	LEU	1116	11.697	113.715	48.698	1.00	211.40	C
ATOM	8678	CD2	LEU	1116	11.075	112.661	50.977	1.00	211.40	C
ATOM	8679	C	LEU	1116	14.660	115.433	51.333	1.00	211.40	C
ATOM	8680	O	LEU	1116	15.687	115.306	51.999	1.00	211.40	O
ATOM	8681	N	ASP	1117	14.144	116.627	50.969	1.00	101.62	N
ATOM	8682	CA	ASP	1117	14.682	117.894	51.369	1.00	101.62	C
ATOM	8683	CB	ASP	1117	15.521	118.569	50.274	1.00	101.62	C
ATOM	8684	CG	ASP	1117	14.634	118.786	49.057	1.00	101.62	C
ATOM	8685	OD1	ASP	1117	13.479	118.285	49.056	1.00	101.62	O
ATOM	8686	OD2	ASP	1117	15.106	119.452	48.100	1.00	101.62	O
ATOM	8687	C	ASP	1117	13.550	118.815	51.744	1.00	101.62	C
ATOM	8688	O	ASP	1117	12.391	118.407	51.781	1.00	101.62	O
ATOM	8689	N	THR	1118	13.877	120.103	52.003	1.00	185.81	N
ATOM	8690	CA	THR	1118	12.969	121.064	52.574	1.00	185.81	C
ATOM	8691	CB	THR	1118	13.631	122.392	52.799	1.00	185.81	C
ATOM	8692	OG1	THR	1118	12.713	123.308	53.380	1.00	185.81	O
ATOM	8693	CG2	THR	1118	14.157	122.922	51.455	1.00	185.81	C
ATOM	8694	C	THR	1118	11.683	121.309	51.816	1.00	185.81	C
ATOM	8695	O	THR	1118	10.616	121.023	52.352	1.00	185.81	O
ATOM	8696	N	GLU	1119	11.715	121.828	50.570	1.00	86.33	N
ATOM	8697	CA	GLU	1119	10.491	122.146	49.869	1.00	86.33	C
ATOM	8698	CB	GLU	1119	10.673	123.065	48.654	1.00	86.33	C
ATOM	8699	CG	GLU	1119	10.901	124.525	49.044	1.00	86.33	C
ATOM	8700	CD	GLU	1119	10.577	125.382	47.830	1.00	86.33	C
ATOM	8701	OE1	GLU	1119	9.785	124.908	46.971	1.00	86.33	O
ATOM	8702	OE2	GLU	1119	11.108	126.523	47.747	1.00	86.33	O
ATOM	8703	C	GLU	1119	9.805	120.910	49.411	1.00	86.33	C
ATOM	8704	O	GLU	1119	8.583	120.880	49.276	1.00	86.33	O
ATOM	8705	N	SER	1120	10.579	119.870	49.080	1.00	55.70	N
ATOM	8706	CA	SER	1120	9.947	118.668	48.639	1.00	55.70	C
ATOM	8707	CB	SER	1120	10.949	117.565	48.270	1.00	55.70	C
ATOM	8708	OG	SER	1120	11.743	117.985	47.172	1.00	55.70	O
ATOM	8709	C	SER	1120	9.159	118.155	49.784	1.00	55.70	C
ATOM	8710	O	SER	1120	7.960	117.903	49.674	1.00	55.70	O
ATOM	8711	N	GLU	1121	9.823	118.025	50.944	1.00	128.97	N
ATOM	8712	CA	GLU	1121	9.120	117.447	52.040	1.00	128.97	C
ATOM	8713	CB	GLU	1121	9.994	117.234	53.288	1.00	128.97	C
ATOM	8714	CG	GLU	1121	10.601	118.512	53.860	1.00	128.97	C
ATOM	8715	CD	GLU	1121	11.501	118.112	55.017	1.00	128.97	C
ATOM	8716	OE1	GLU	1121	10.965	117.573	56.022	1.00	128.97	O
ATOM	8717	OE2	GLU	1121	12.737	118.330	54.906	1.00	128.97	O
ATOM	8718	C	GLU	1121	7.959	118.319	52.388	1.00	128.97	C
ATOM	8719	O	GLU	1121	6.826	117.849	52.429	1.00	128.97	O
ATOM	8720	N	LYS	1122	8.180	119.632	52.570	1.00	127.66	N
ATOM	8721	CA	LYS	1122	7.085	120.435	53.021	1.00	127.66	C
ATOM	8722	CB	LYS	1122	7.478	121.899	53.337	1.00	127.66	C
ATOM	8723	CG	LYS	1122	7.421	122.893	52.167	1.00	127.66	C
ATOM	8724	CD	LYS	1122	5.999	123.367	51.828	1.00	127.66	C
ATOM	8725	CE	LYS	1122	5.872	124.190	50.545	1.00	127.66	C

ATOM	8726	NZ	LYS	1122	4.465	124.146	50.081	1.00127.66	N
ATOM	8727	C	LYS	1122	5.989	120.439	52.001	1.00127.66	C
ATOM	8728	O	LYS	1122	4.834	120.186	52.336	1.00127.66	O
ATOM	8729	N	VAL	1123	6.318	120.669	50.715	1.00102.30	N
ATOM	8730	CA	VAL	1123	5.285	120.818	49.726	1.00102.30	C
ATOM	8731	CB	VAL	1123	5.802	121.069	48.331	1.00102.30	C
ATOM	8732	CG1	VAL	1123	6.531	119.819	47.810	1.00102.30	C
ATOM	8733	CG2	VAL	1123	4.613	121.483	47.447	1.00102.30	C
ATOM	8734	C	VAL	1123	4.469	119.568	49.693	1.00102.30	C
ATOM	8735	O	VAL	1123	3.246	119.627	49.581	1.00102.30	O
ATOM	8736	N	VAL	1124	5.129	118.400	49.797	1.00130.40	N
ATOM	8737	CA	VAL	1124	4.426	117.153	49.732	1.00130.40	C
ATOM	8738	CB	VAL	1124	5.292	115.930	49.552	1.00130.40	C
ATOM	8739	CG1	VAL	1124	5.956	116.018	48.171	1.00130.40	C
ATOM	8740	CG2	VAL	1124	6.299	115.800	50.698	1.00130.40	C
ATOM	8741	C	VAL	1124	3.544	116.986	50.927	1.00130.40	C
ATOM	8742	O	VAL	1124	2.492	116.364	50.827	1.00130.40	O
ATOM	8743	N	GLN	1125	3.948	117.518	52.092	1.00128.97	N
ATOM	8744	CA	GLN	1125	3.142	117.427	53.275	1.00128.97	C
ATOM	8745	CB	GLN	1125	3.803	118.108	54.486	1.00128.97	C
ATOM	8746	CG	GLN	1125	2.966	118.024	55.762	1.00128.97	C
ATOM	8747	CD	GLN	1125	3.051	116.597	56.288	1.00128.97	C
ATOM	8748	OE1	GLN	1125	2.892	115.635	55.538	1.00128.97	O
ATOM	8749	NE2	GLN	1125	3.319	116.456	57.614	1.00128.97	N
ATOM	8750	C	GLN	1125	1.882	118.164	52.972	1.00128.97	C
ATOM	8751	O	GLN	1125	0.810	117.820	53.469	1.00128.97	O
ATOM	8752	N	GLU	1126	2.013	119.241	52.177	1.00 77.58	N
ATOM	8753	CA	GLU	1126	0.910	120.045	51.759	1.00 77.58	C
ATOM	8754	CB	GLU	1126	1.387	121.307	51.012	1.00 77.58	C
ATOM	8755	CG	GLU	1126	0.313	122.379	50.822	1.00 77.58	C
ATOM	8756	CD	GLU	1126	-0.256	122.244	49.419	1.00 77.58	C
ATOM	8757	OE1	GLU	1126	0.405	122.743	48.469	1.00 77.58	O
ATOM	8758	OE2	GLU	1126	-1.354	121.643	49.276	1.00 77.58	O
ATOM	8759	C	GLU	1126	0.053	119.220	50.850	1.00 77.58	C
ATOM	8760	O	GLU	1126	-1.173	119.247	50.948	1.00 77.58	O
ATOM	8761	N	ALA	1127	0.680	118.461	49.925	1.00 53.52	N
ATOM	8762	CA	ALA	1127	-0.102	117.656	49.031	1.00 53.52	C
ATOM	8763	CB	ALA	1127	0.760	116.937	47.980	1.00 53.52	C
ATOM	8764	C	ALA	1127	-0.815	116.609	49.827	1.00 53.52	C
ATOM	8765	O	ALA	1127	-2.040	116.552	49.849	1.00 53.52	O
ATOM	8766	N	LEU	1128	-0.058	115.851	50.632	1.00128.71	N
ATOM	8767	CA	LEU	1128	-0.555	114.785	51.451	1.00128.71	C
ATOM	8768	CB	LEU	1128	0.587	114.264	52.355	1.00128.71	C
ATOM	8769	CG	LEU	1128	0.266	113.149	53.372	1.00128.71	C
ATOM	8770	CD1	LEU	1128	1.555	112.660	54.054	1.00128.71	C
ATOM	8771	CD2	LEU	1128	-0.787	113.553	54.418	1.00128.71	C
ATOM	8772	C	LEU	1128	-1.618	115.402	52.302	1.00128.71	C
ATOM	8773	O	LEU	1128	-2.603	114.752	52.654	1.00128.71	O
ATOM	8774	N	ASP	1129	-1.415	116.677	52.680	1.00 76.36	N
ATOM	8775	CA	ASP	1129	-2.337	117.380	53.523	1.00 76.36	C
ATOM	8776	CB	ASP	1129	-1.861	118.817	53.782	1.00 76.36	C
ATOM	8777	CG	ASP	1129	-2.853	119.518	54.696	1.00 76.36	C
ATOM	8778	OD1	ASP	1129	-3.743	118.835	55.271	1.00 76.36	O
ATOM	8779	OD2	ASP	1129	-2.726	120.763	54.831	1.00 76.36	O
ATOM	8780	C	ASP	1129	-3.692	117.490	52.881	1.00 76.36	C
ATOM	8781	O	ASP	1129	-4.666	116.912	53.354	1.00 76.36	O
ATOM	8782	N	LYS	1130	-3.786	118.197	51.744	1.00112.54	N
ATOM	8783	CA	LYS	1130	-5.054	118.402	51.101	1.00112.54	C
ATOM	8784	CB	LYS	1130	-5.025	119.474	50.003	1.00112.54	C
ATOM	8785	CG	LYS	1130	-5.208	120.855	50.629	1.00112.54	C
ATOM	8786	CD	LYS	1130	-4.873	122.050	49.744	1.00112.54	C
ATOM	8787	CE	LYS	1130	-5.328	123.353	50.399	1.00112.54	C
ATOM	8788	NZ	LYS	1130	-5.318	123.178	51.870	1.00112.54	N
ATOM	8789	C	LYS	1130	-5.523	117.101	50.563	1.00112.54	C
ATOM	8790	O	LYS	1130	-6.703	116.905	50.281	1.00112.54	O
ATOM	8791	N	ALA	1131	-4.565	116.192	50.360	1.00 45.34	N
ATOM	8792	CA	ALA	1131	-4.824	114.881	49.867	1.00 45.34	C
ATOM	8793	CB	ALA	1131	-3.547	114.042	49.695	1.00 45.34	C
ATOM	8794	C	ALA	1131	-5.689	114.176	50.862	1.00 45.34	C
ATOM	8795	O	ALA	1131	-6.539	113.375	50.478	1.00 45.34	O
ATOM	8796	N	ARG	1132	-5.467	114.436	52.169	1.00115.73	N
ATOM	8797	CA	ARG	1132	-6.208	113.782	53.213	1.00115.73	C
ATOM	8798	CB	ARG	1132	-5.376	113.505	54.474	1.00115.73	C
ATOM	8799	CG	ARG	1132	-4.907	114.816	55.092	1.00115.73	C

ATOM	8800	CD	ARG	1132	-4.008	114.718	56.319	1.00115.73	C
ATOM	8801	NE	ARG	1132	-3.545	116.110	56.572	1.00115.73	N
ATOM	8802	CZ	ARG	1132	-2.399	116.346	57.276	1.00115.73	C
ATOM	8803	NH1	ARG	1132	-1.704	115.299	57.806	1.00115.73	N
ATOM	8804	NH2	ARG	1132	-1.942	117.620	57.429	1.00115.73	N
ATOM	8805	C	ARG	1132	-7.333	114.673	53.643	1.00115.73	C
ATOM	8806	O	ARG	1132	-7.644	115.678	53.008	1.00115.73	O
ATOM	8807	N	GLU	1133	-8.041	114.245	54.710	1.00111.08	N
ATOM	8808	CA	GLU	1133	-9.137	114.938	55.338	1.00111.08	C
ATOM	8809	CB	GLU	1133	-8.832	116.435	55.529	1.00111.08	C
ATOM	8810	CG	GLU	1133	-9.790	117.155	56.479	1.00111.08	C
ATOM	8811	CD	GLU	1133	-11.040	117.532	55.702	1.00111.08	C
ATOM	8812	OE1	GLU	1133	-10.942	117.637	54.451	1.00111.08	O
ATOM	8813	OE2	GLU	1133	-12.107	117.723	56.347	1.00111.08	O
ATOM	8814	C	GLU	1133	-10.335	114.810	54.458	1.00111.08	C
ATOM	8815	O	GLU	1133	-11.475	114.903	54.909	1.00111.08	O
ATOM	8816	N	GLY	1134	-10.088	114.577	53.163	1.00 56.14	N
ATOM	8817	CA	GLY	1134	-11.099	114.253	52.218	1.00 56.14	C
ATOM	8818	C	GLY	1134	-11.429	112.824	52.477	1.00 56.14	C
ATOM	8819	O	GLY	1134	-12.557	112.381	52.262	1.00 56.14	O
ATOM	8820	N	ARG	1135	-10.402	112.057	52.908	1.00199.45	N
ATOM	8821	CA	ARG	1135	-10.567	110.640	53.053	1.00199.45	C
ATOM	8822	CB	ARG	1135	-9.931	109.838	51.915	1.00199.45	C
ATOM	8823	CG	ARG	1135	-9.955	110.513	50.556	1.00199.45	C
ATOM	8824	CD	ARG	1135	-8.931	111.646	50.479	1.00199.45	C
ATOM	8825	NE	ARG	1135	-8.858	112.094	49.063	1.00199.45	N
ATOM	8826	CZ	ARG	1135	-8.129	111.363	48.173	1.00199.45	C
ATOM	8827	NH1	ARG	1135	-7.568	110.182	48.566	1.00199.45	N
ATOM	8828	NH2	ARG	1135	-7.968	111.804	46.890	1.00199.45	N
ATOM	8829	C	ARG	1135	-9.759	110.177	54.219	1.00199.45	C
ATOM	8830	O	ARG	1135	-8.869	110.876	54.702	1.00199.45	O
ATOM	8831	N	THR	1136	-10.034	108.937	54.675	1.00125.41	N
ATOM	8832	CA	THR	1136	-9.286	108.398	55.768	1.00125.41	C
ATOM	8833	CB	THR	1136	-9.927	107.224	56.449	1.00125.41	C
ATOM	8834	OG1	THR	1136	-9.299	106.988	57.699	1.00125.41	O
ATOM	8835	CG2	THR	1136	-9.771	105.983	55.559	1.00125.41	C
ATOM	8836	C	THR	1136	-7.957	107.961	55.244	1.00125.41	C
ATOM	8837	O	THR	1136	-7.830	107.534	54.096	1.00125.41	O
ATOM	8838	N	CYS	1137	-6.906	108.093	56.079	1.00 74.73	N
ATOM	8839	CA	CYS	1137	-5.624	107.655	55.620	1.00 74.73	C
ATOM	8840	CB	CYS	1137	-4.922	108.671	54.696	1.00 74.73	C
ATOM	8841	SG	CYS	1137	-4.601	110.285	55.470	1.00 74.73	S
ATOM	8842	C	CYS	1137	-4.740	107.360	56.790	1.00 74.73	C
ATOM	8843	O	CYS	1137	-4.634	108.130	57.744	1.00 74.73	O
ATOM	8844	N	ILE	1138	-4.047	106.211	56.734	1.00 73.43	N
ATOM	8845	CA	ILE	1138	-3.170	105.878	57.806	1.00 73.43	C
ATOM	8846	CB	ILE	1138	-3.101	104.400	58.067	1.00 73.43	C
ATOM	8847	CG1	ILE	1138	-4.514	103.851	58.331	1.00 73.43	C
ATOM	8848	CG2	ILE	1138	-2.146	104.161	59.248	1.00 73.43	C
ATOM	8849	CD1	ILE	1138	-4.585	102.324	58.327	1.00 73.43	C
ATOM	8850	C	ILE	1138	-1.833	106.356	57.372	1.00 73.43	C
ATOM	8851	O	ILE	1138	-1.167	105.747	56.532	1.00 73.43	O
ATOM	8852	N	VAL	1139	-1.437	107.520	57.914	1.00138.61	N
ATOM	8853	CA	VAL	1139	-0.139	108.009	57.607	1.00138.61	C
ATOM	8854	CB	VAL	1139	-0.017	109.512	57.579	1.00138.61	C
ATOM	8855	CG1	VAL	1139	-0.914	110.038	56.453	1.00138.61	C
ATOM	8856	CG2	VAL	1139	-0.370	110.110	58.947	1.00138.61	C
ATOM	8857	C	VAL	1139	0.721	107.446	58.682	1.00138.61	C
ATOM	8858	O	VAL	1139	0.521	107.699	59.871	1.00138.61	O
ATOM	8859	N	ILE	1140	1.688	106.601	58.292	1.00150.46	N
ATOM	8860	CA	ILE	1140	2.503	106.075	59.338	1.00150.46	C
ATOM	8861	CB	ILE	1140	2.580	104.578	59.453	1.00150.46	C
ATOM	8862	CG1	ILE	1140	3.520	103.974	58.409	1.00150.46	C
ATOM	8863	CG2	ILE	1140	1.146	104.053	59.275	1.00150.46	C
ATOM	8864	CD1	ILE	1140	3.088	104.277	56.997	1.00150.46	C
ATOM	8865	C	ILE	1140	3.862	106.522	58.963	1.00150.46	C
ATOM	8866	O	ILE	1140	4.161	106.676	57.780	1.00150.46	O
ATOM	8867	N	ALA	1141	4.720	106.800	59.955	1.00 70.91	N
ATOM	8868	CA	ALA	1141	6.004	107.264	59.550	1.00 70.91	C
ATOM	8869	CB	ALA	1141	5.973	108.676	58.937	1.00 70.91	C
ATOM	8870	C	ALA	1141	6.933	107.306	60.713	1.00 70.91	C
ATOM	8871	O	ALA	1141	6.568	107.046	61.859	1.00 70.91	O
ATOM	8872	N	HIS	1142	8.218	107.504	60.369	1.00108.59	N
ATOM	8873	CA	HIS	1142	9.307	107.724	61.266	1.00108.59	C



ATOM	8874	ND1	HIS	1142	11.811	106.320	62.785	1.00108.59	N
ATOM	8875	CG	HIS	1142	11.701	107.322	61.850	1.00108.59	C
ATOM	8876	CB	HIS	1142	10.691	107.315	60.737	1.00108.59	C
ATOM	8877	NE2	HIS	1142	13.330	107.851	63.320	1.00108.59	N
ATOM	8878	CD2	HIS	1142	12.639	108.252	62.192	1.00108.59	C
ATOM	8879	CE1	HIS	1142	12.799	106.685	63.641	1.00108.59	C
ATOM	8880	C	HIS	1142	9.365	109.178	61.610	1.00108.59	C
ATOM	8881	O	HIS	1142	10.185	109.585	62.428	1.00108.59	O
ATOM	8882	N	ARG	1143	8.604	110.033	60.898	1.00166.27	N
ATOM	8883	CA	ARG	1143	8.696	111.433	61.204	1.00166.27	C
ATOM	8884	CB	ARG	1143	8.078	112.337	60.131	1.00166.27	C
ATOM	8885	CG	ARG	1143	8.918	112.399	58.861	1.00166.27	C
ATOM	8886	CD	ARG	1143	10.215	113.186	59.048	1.00166.27	C
ATOM	8887	NE	ARG	1143	10.928	113.165	57.744	1.00166.27	N
ATOM	8888	CZ	ARG	1143	10.619	114.095	56.794	1.00166.27	C
ATOM	8889	NH1	ARG	1143	9.689	115.057	57.061	1.00166.27	N
ATOM	8890	NH2	ARG	1143	11.233	114.057	55.577	1.00166.27	N
ATOM	8891	C	ARG	1143	7.956	111.682	62.482	1.00166.27	C
ATOM	8892	O	ARG	1143	6.855	112.229	62.500	1.00166.27	O
ATOM	8893	N	LEU	1144	8.626	111.381	63.605	1.00171.24	N
ATOM	8894	CA	LEU	1144	8.058	111.506	64.912	1.00171.24	C
ATOM	8895	CB	LEU	1144	9.054	111.217	66.050	1.00171.24	C
ATOM	8896	CG	LEU	1144	9.374	109.734	66.307	1.00171.24	C
ATOM	8897	CD1	LEU	1144	8.140	109.006	66.852	1.00171.24	C
ATOM	8898	CD2	LEU	1144	10.006	109.037	65.097	1.00171.24	C
ATOM	8899	C	LEU	1144	7.643	112.925	65.089	1.00171.24	C
ATOM	8900	O	LEU	1144	6.740	113.219	65.871	1.00171.24	O
ATOM	8901	N	SER	1145	8.369	113.842	64.428	1.00116.64	N
ATOM	8902	CA	SER	1145	8.131	115.256	64.496	1.00116.64	C
ATOM	8903	CB	SER	1145	9.154	116.030	63.659	1.00116.64	C
ATOM	8904	OG	SER	1145	10.456	115.539	63.926	1.00116.64	O
ATOM	8905	C	SER	1145	6.802	115.654	63.909	1.00116.64	C
ATOM	8906	O	SER	1145	5.874	116.041	64.616	1.00116.64	O
ATOM	8907	N	THR	1146	6.701	115.517	62.572	1.00 90.02	N
ATOM	8908	CA	THR	1146	5.635	115.978	61.715	1.00 90.02	C
ATOM	8909	CB	THR	1146	5.966	115.883	60.253	1.00 90.02	C
ATOM	8910	OG1	THR	1146	6.212	114.535	59.882	1.00 90.02	O
ATOM	8911	CG2	THR	1146	7.206	116.753	59.977	1.00 90.02	C
ATOM	8912	C	THR	1146	4.360	115.235	61.959	1.00 90.02	C
ATOM	8913	O	THR	1146	3.304	115.613	61.457	1.00 90.02	O
ATOM	8914	N	ILE	1147	4.438	114.108	62.670	1.00 96.08	N
ATOM	8915	CA	ILE	1147	3.320	113.250	62.938	1.00 96.08	C
ATOM	8916	CB	ILE	1147	3.702	111.942	63.554	1.00 96.08	C
ATOM	8917	CG1	ILE	1147	2.544	110.944	63.390	1.00 96.08	C
ATOM	8918	CG2	ILE	1147	4.131	112.189	65.007	1.00 96.08	C
ATOM	8919	CD1	ILE	1147	2.974	109.490	63.551	1.00 96.08	C
ATOM	8920	C	ILE	1147	2.249	113.928	63.762	1.00 96.08	C
ATOM	8921	O	ILE	1147	1.103	113.479	63.779	1.00 96.08	O
ATOM	8922	N	GLN	1148	2.587	115.015	64.482	1.00127.57	N
ATOM	8923	CA	GLN	1148	1.714	115.674	65.422	1.00127.57	C
ATOM	8924	CB	GLN	1148	2.252	117.050	65.846	1.00127.57	C
ATOM	8925	CG	GLN	1148	3.304	117.033	66.952	1.00127.57	C
ATOM	8926	CD	GLN	1148	2.563	117.405	68.225	1.00127.57	C
ATOM	8927	OE1	GLN	1148	1.508	116.851	68.530	1.00127.57	O
ATOM	8928	NE2	GLN	1148	3.119	118.392	68.977	1.00127.57	N
ATOM	8929	C	GLN	1148	0.347	115.936	64.852	1.00127.57	C
ATOM	8930	O	GLN	1148	-0.637	115.837	65.585	1.00127.57	O
ATOM	8931	N	ASN	1149	0.214	116.308	63.567	1.00142.67	N
ATOM	8932	CA	ASN	1149	-1.112	116.566	63.073	1.00142.67	C
ATOM	8933	CB	ASN	1149	-1.078	117.377	61.760	1.00142.67	C
ATOM	8934	CG	ASN	1149	-0.211	116.626	60.755	1.00142.67	C
ATOM	8935	OD1	ASN	1149	0.281	115.534	61.032	1.00142.67	O
ATOM	8936	ND2	ASN	1149	-0.006	117.233	59.555	1.00142.67	N
ATOM	8937	C	ASN	1149	-1.810	115.256	62.816	1.00142.67	C
ATOM	8938	O	ASN	1149	-2.162	114.946	61.679	1.00142.67	O
ATOM	8939	N	ALA	1150	-2.098	114.471	63.881	1.00 62.11	N
ATOM	8940	CA	ALA	1150	-2.726	113.190	63.674	1.00 62.11	C
ATOM	8941	CB	ALA	1150	-1.834	111.994	64.051	1.00 62.11	C
ATOM	8942	C	ALA	1150	-3.974	113.095	64.501	1.00 62.11	C
ATOM	8943	O	ALA	1150	-4.057	113.667	65.587	1.00 62.11	O
ATOM	8944	N	ASP	1151	-5.017	112.424	63.959	1.00 75.61	N
ATOM	8945	CA	ASP	1151	-6.240	112.258	64.697	1.00 75.61	C
ATOM	8946	CB	ASP	1151	-7.402	111.727	63.839	1.00 75.61	C
ATOM	8947	CG	ASP	1151	-7.856	112.858	62.928	1.00 75.61	C

ATOM	8948	OD1	ASP	1151	-7.140	113.892	62.867	1.00	75.61	O
ATOM	8949	OD2	ASP	1151	-8.928	112.706	62.282	1.00	75.61	O
ATOM	8950	C	ASP	1151	-6.046	111.305	65.837	1.00	75.61	C
ATOM	8951	O	ASP	1151	-6.223	111.665	67.000	1.00	75.61	O
ATOM	8952	N	LEU	1152	-5.632	110.062	65.522	1.00	72.40	N
ATOM	8953	CA	LEU	1152	-5.441	109.050	66.523	1.00	72.40	C
ATOM	8954	CB	LEU	1152	-6.376	107.842	66.341	1.00	72.40	C
ATOM	8955	CG	LEU	1152	-6.078	106.672	67.297	1.00	72.40	C
ATOM	8956	CD1	LEU	1152	-6.312	107.061	68.765	1.00	72.40	C
ATOM	8957	CD2	LEU	1152	-6.839	105.405	66.872	1.00	72.40	C
ATOM	8958	C	LEU	1152	-4.061	108.527	66.340	1.00	72.40	C
ATOM	8959	O	LEU	1152	-3.778	107.848	65.355	1.00	72.40	O
ATOM	8960	N	ILE	1153	-3.178	108.786	67.317	1.00	93.91	N
ATOM	8961	CA	ILE	1153	-1.812	108.377	67.187	1.00	93.91	C
ATOM	8962	CB	ILE	1153	-0.857	109.368	67.791	1.00	93.91	C
ATOM	8963	CG1	ILE	1153	-0.988	110.742	67.110	1.00	93.91	C
ATOM	8964	CG2	ILE	1153	0.557	108.769	67.716	1.00	93.91	C
ATOM	8965	CD1	ILE	1153	-2.303	111.465	67.406	1.00	93.91	C
ATOM	8966	C	ILE	1153	-1.660	107.125	67.982	1.00	93.91	C
ATOM	8967	O	ILE	1153	-1.807	107.136	69.203	1.00	93.91	O
ATOM	8968	N	VAL	1154	-1.353	106.008	67.294	1.00	45.54	N
ATOM	8969	CA	VAL	1154	-1.225	104.758	67.982	1.00	45.54	C
ATOM	8970	CB	VAL	1154	-1.917	103.618	67.289	1.00	45.54	C
ATOM	8971	CG1	VAL	1154	-1.612	102.338	68.082	1.00	45.54	C
ATOM	8972	CG2	VAL	1154	-3.417	103.930	67.146	1.00	45.54	C
ATOM	8973	C	VAL	1154	0.220	104.390	68.029	1.00	45.54	C
ATOM	8974	O	VAL	1154	0.910	104.372	67.010	1.00	45.54	O
ATOM	8975	N	VAL	1155	0.713	104.083	69.243	1.00	59.02	N
ATOM	8976	CA	VAL	1155	2.076	103.668	69.390	1.00	59.02	C
ATOM	8977	CB	VAL	1155	2.735	104.197	70.637	1.00	59.02	C
ATOM	8978	CG1	VAL	1155	4.161	103.625	70.743	1.00	59.02	C
ATOM	8979	CG2	VAL	1155	2.683	105.733	70.607	1.00	59.02	C
ATOM	8980	C	VAL	1155	2.055	102.191	69.512	1.00	59.02	C
ATOM	8981	O	VAL	1155	1.593	101.639	70.512	1.00	59.02	O
ATOM	8982	N	PHE	1156	2.565	101.488	68.490	1.00	90.70	N
ATOM	8983	CA	PHE	1156	2.515	100.078	68.699	1.00	90.70	C
ATOM	8984	CB	PHE	1156	1.763	99.251	67.626	1.00	90.70	C
ATOM	8985	CG	PHE	1156	2.567	99.044	66.391	1.00	90.70	C
ATOM	8986	CD1	PHE	1156	3.380	97.938	66.306	1.00	90.70	C
ATOM	8987	CD2	PHE	1156	2.503	99.914	65.327	1.00	90.70	C
ATOM	8988	CE1	PHE	1156	4.132	97.704	65.182	1.00	90.70	C
ATOM	8989	CE2	PHE	1156	3.254	99.685	64.198	1.00	90.70	C
ATOM	8990	CZ	PHE	1156	4.070	98.580	64.126	1.00	90.70	C
ATOM	8991	C	PHE	1156	3.910	99.577	68.849	1.00	90.70	C
ATOM	8992	O	PHE	1156	4.839	100.062	68.205	1.00	90.70	O
ATOM	8993	N	GLN	1157	4.096	98.647	69.806	1.00	110.97	N
ATOM	8994	CA	GLN	1157	5.331	97.940	69.891	1.00	110.97	C
ATOM	8995	CB	GLN	1157	5.578	97.236	71.234	1.00	110.97	C
ATOM	8996	CG	GLN	1157	6.913	96.487	71.291	1.00	110.97	C
ATOM	8997	CD	GLN	1157	8.047	97.505	71.206	1.00	110.97	C
ATOM	8998	OE1	GLN	1157	7.897	98.579	70.624	1.00	110.97	O
ATOM	8999	NE2	GLN	1157	9.220	97.160	71.800	1.00	110.97	N
ATOM	9000	C	GLN	1157	5.036	96.918	68.868	1.00	110.97	C
ATOM	9001	O	GLN	1157	3.855	96.646	68.681	1.00	110.97	O
ATOM	9002	N	ASN	1158	6.048	96.286	68.247	1.00	202.41	N
ATOM	9003	CA	ASN	1158	5.834	95.531	67.035	1.00	202.41	C
ATOM	9004	CB	ASN	1158	7.025	94.621	66.679	1.00	202.41	C
ATOM	9005	CG	ASN	1158	8.107	95.454	66.007	1.00	202.41	C
ATOM	9006	OD1	ASN	1158	7.912	95.969	64.907	1.00	202.41	O
ATOM	9007	ND2	ASN	1158	9.284	95.580	66.676	1.00	202.41	N
ATOM	9008	C	ASN	1158	4.604	94.653	67.053	1.00	202.41	C
ATOM	9009	O	ASN	1158	3.658	94.901	66.325	1.00	202.41	O
ATOM	9010	N	GLY	1159	4.514	93.632	67.892	1.00	152.68	N
ATOM	9011	CA	GLY	1159	3.355	92.775	67.907	1.00	152.68	C
ATOM	9012	C	GLY	1159	2.149	93.376	68.574	1.00	152.68	C
ATOM	9013	O	GLY	1159	1.019	93.042	68.220	1.00	152.68	O
ATOM	9014	N	ARG	1160	2.358	94.219	69.606	1.00	150.04	N
ATOM	9015	CA	ARG	1160	1.270	94.669	70.435	1.00	150.04	C
ATOM	9016	CB	ARG	1160	1.380	94.022	71.823	1.00	150.04	C
ATOM	9017	CG	ARG	1160	2.813	94.089	72.362	1.00	150.04	C
ATOM	9018	CD	ARG	1160	3.318	95.493	72.686	1.00	150.04	C
ATOM	9019	NE	ARG	1160	3.349	95.621	74.172	1.00	150.04	N
ATOM	9020	CZ	ARG	1160	2.232	95.993	74.863	1.00	150.04	C
ATOM	9021	NH1	ARG	1160	1.075	96.268	74.192	1.00	150.04	N

ATOM	9022	NH2	ARG	1160	2.273	96.074	76.225	1.00150.04	N
ATOM	9023	C	ARG	1160	1.194	96.166	70.561	1.00150.04	C
ATOM	9024	O	ARG	1160	2.208	96.860	70.586	1.00150.04	O
ATOM	9025	N	VAL	1161	-0.047	96.705	70.662	1.00130.87	N
ATOM	9026	CA	VAL	1161	-0.226	98.131	70.736	1.00130.87	C
ATOM	9027	CB	VAL	1161	-1.477	98.586	70.036	1.00130.87	C
ATOM	9028	CG1	VAL	1161	-2.676	97.812	70.610	1.00130.87	C
ATOM	9029	CG2	VAL	1161	-1.599	100.111	70.178	1.00130.87	C
ATOM	9030	C	VAL	1161	-0.297	98.553	72.178	1.00130.87	C
ATOM	9031	O	VAL	1161	-1.219	98.180	72.903	1.00130.87	O
ATOM	9032	N	LYS	1162	0.750	99.264	72.649	1.00120.81	N
ATOM	9033	CA	LYS	1162	0.820	99.741	74.001	1.00120.81	C
ATOM	9034	CB	LYS	1162	2.258	99.855	74.520	1.00120.81	C
ATOM	9035	CG	LYS	1162	2.286	99.928	76.044	1.00120.81	C
ATOM	9036	CD	LYS	1162	3.644	99.610	76.661	1.00120.81	C
ATOM	9037	CE	LYS	1162	3.543	99.361	78.163	1.00120.81	C
ATOM	9038	NZ	LYS	1162	2.604	98.245	78.417	1.00120.81	N
ATOM	9039	C	LYS	1162	0.122	101.052	74.278	1.00120.81	C
ATOM	9040	O	LYS	1162	-0.543	101.193	75.303	1.00120.81	O
ATOM	9041	N	GLU	1163	0.258	102.064	73.393	1.00 92.81	N
ATOM	9042	CA	GLU	1163	-0.259	103.361	73.747	1.00 92.81	C
ATOM	9043	CB	GLU	1163	0.844	104.387	74.053	1.00 92.81	C
ATOM	9044	CG	GLU	1163	1.663	104.045	75.296	1.00 92.81	C
ATOM	9045	CD	GLU	1163	2.862	104.977	75.332	1.00 92.81	C
ATOM	9046	OE1	GLU	1163	2.667	106.212	75.172	1.00 92.81	O
ATOM	9047	OE2	GLU	1163	3.995	104.459	75.520	1.00 92.81	O
ATOM	9048	C	GLU	1163	-1.023	103.919	72.594	1.00 92.81	C
ATOM	9049	O	GLU	1163	-0.990	103.370	71.494	1.00 92.81	O
ATOM	9050	N	HIS	1164	-1.784	105.007	72.848	1.00 64.37	N
ATOM	9051	CA	HIS	1164	-2.468	105.677	71.780	1.00 64.37	C
ATOM	9052	ND1	HIS	1164	-5.785	104.730	71.687	1.00 64.37	N
ATOM	9053	CG	HIS	1164	-4.528	104.164	71.647	1.00 64.37	C
ATOM	9054	CB	HIS	1164	-3.363	104.765	70.921	1.00 64.37	C
ATOM	9055	NE2	HIS	1164	-5.905	102.822	72.827	1.00 64.37	N
ATOM	9056	CD2	HIS	1164	-4.619	103.004	72.348	1.00 64.37	C
ATOM	9057	CE1	HIS	1164	-6.567	103.884	72.405	1.00 64.37	C
ATOM	9058	C	HIS	1164	-3.304	106.786	72.341	1.00 64.37	C
ATOM	9059	O	HIS	1164	-3.566	106.837	73.543	1.00 64.37	O
ATOM	9060	N	GLY	1165	-3.735	107.717	71.460	1.00 29.23	N
ATOM	9061	CA	GLY	1165	-4.538	108.836	71.871	1.00 29.23	C
ATOM	9062	C	GLY	1165	-4.040	110.048	71.136	1.00 29.23	C
ATOM	9063	O	GLY	1165	-3.460	109.930	70.058	1.00 29.23	O
ATOM	9064	N	THR	1166	-4.280	111.255	71.694	1.00113.15	N
ATOM	9065	CA	THR	1166	-3.815	112.468	71.071	1.00113.15	C
ATOM	9066	CB	THR	1166	-4.673	113.665	71.358	1.00113.15	C
ATOM	9067	OG1	THR	1166	-4.151	114.803	70.691	1.00113.15	O
ATOM	9068	CG2	THR	1166	-4.742	113.900	72.875	1.00113.15	C
ATOM	9069	C	THR	1166	-2.417	112.745	71.546	1.00113.15	C
ATOM	9070	O	THR	1166	-1.989	112.205	72.563	1.00113.15	O
ATOM	9071	N	HIS	1167	-1.675	113.628	70.836	1.00 76.31	N
ATOM	9072	CA	HIS	1167	-0.273	113.810	71.122	1.00 76.31	C
ATOM	9073	ND1	HIS	1167	2.567	115.193	71.594	1.00 76.31	N
ATOM	9074	CG	HIS	1167	1.917	114.845	70.427	1.00 76.31	C
ATOM	9075	CB	HIS	1167	0.424	114.867	70.247	1.00 76.31	C
ATOM	9076	NE2	HIS	1167	4.144	114.611	70.139	1.00 76.31	N
ATOM	9077	CD2	HIS	1167	2.897	114.494	69.550	1.00 76.31	C
ATOM	9078	CE1	HIS	1167	3.895	115.032	71.364	1.00 76.31	C
ATOM	9079	C	HIS	1167	-0.030	114.229	72.538	1.00 76.31	C
ATOM	9080	O	HIS	1167	0.702	113.553	73.258	1.00 76.31	O
ATOM	9081	N	GLN	1168	-0.659	115.325	72.998	1.00 86.53	N
ATOM	9082	CA	GLN	1168	-0.388	115.808	74.324	1.00 86.53	C
ATOM	9083	CB	GLN	1168	-1.161	117.085	74.708	1.00 86.53	C
ATOM	9084	CG	GLN	1168	-2.677	116.913	74.866	1.00 86.53	C
ATOM	9085	CD	GLN	1168	-3.339	116.969	73.499	1.00 86.53	C
ATOM	9086	OE1	GLN	1168	-3.124	116.106	72.654	1.00 86.53	O
ATOM	9087	NE2	GLN	1168	-4.175	118.017	73.271	1.00 86.53	N
ATOM	9088	C	GLN	1168	-0.816	114.747	75.276	1.00 86.53	C
ATOM	9089	O	GLN	1168	-0.197	114.543	76.320	1.00 86.53	O
ATOM	9090	N	GLN	1169	-1.911	114.049	74.934	1.00 39.11	N
ATOM	9091	CA	GLN	1169	-2.433	113.018	75.776	1.00 39.11	C
ATOM	9092	CB	GLN	1169	-3.705	112.388	75.178	1.00 39.11	C
ATOM	9093	CG	GLN	1169	-4.429	111.384	76.078	1.00 39.11	C
ATOM	9094	CD	GLN	1169	-5.655	110.888	75.318	1.00 39.11	C
ATOM	9095	OE1	GLN	1169	-6.191	111.582	74.455	1.00 39.11	O

ATOM	9096	NE2	GLN	1169	-6.117	109.652	75.646	1.00	39.11	N
ATOM	9097	C	GLN	1169	-1.379	111.963	75.897	1.00	39.11	C
ATOM	9098	O	GLN	1169	-1.143	111.440	76.983	1.00	39.11	O
ATOM	9099	N	LEU	1170	-0.703	111.642	74.777	1.00	108.29	N
ATOM	9100	CA	LEU	1170	0.345	110.657	74.754	1.00	108.29	C
ATOM	9101	CB	LEU	1170	0.922	110.460	73.338	1.00	108.29	C
ATOM	9102	CG	LEU	1170	0.181	109.452	72.436	1.00	108.29	C
ATOM	9103	CD1	LEU	1170	0.658	108.022	72.713	1.00	108.29	C
ATOM	9104	CD2	LEU	1170	-1.341	109.546	72.581	1.00	108.29	C
ATOM	9105	C	LEU	1170	1.478	111.093	75.627	1.00	108.29	C
ATOM	9106	O	LEU	1170	2.001	110.310	76.420	1.00	108.29	O
ATOM	9107	N	LEU	1171	1.880	112.369	75.513	1.00	45.63	N
ATOM	9108	CA	LEU	1171	2.970	112.869	76.295	1.00	45.63	C
ATOM	9109	CB	LEU	1171	3.253	114.350	76.007	1.00	45.63	C
ATOM	9110	CG	LEU	1171	4.417	114.934	76.822	1.00	45.63	C
ATOM	9111	CD1	LEU	1171	5.744	114.245	76.468	1.00	45.63	C
ATOM	9112	CD2	LEU	1171	4.483	116.460	76.663	1.00	45.63	C
ATOM	9113	C	LEU	1171	2.531	112.747	77.716	1.00	45.63	C
ATOM	9114	O	LEU	1171	3.322	112.435	78.605	1.00	45.63	O
ATOM	9115	N	ALA	1172	1.224	112.964	77.948	1.00	34.90	N
ATOM	9116	CA	ALA	1172	0.684	112.892	79.270	1.00	34.90	C
ATOM	9117	CB	ALA	1172	-0.843	113.071	79.300	1.00	34.90	C
ATOM	9118	C	ALA	1172	0.991	111.521	79.770	1.00	34.90	C
ATOM	9119	O	ALA	1172	1.361	111.354	80.930	1.00	34.90	O
ATOM	9120	N	GLN	1173	0.847	110.489	78.913	1.00	96.53	N
ATOM	9121	CA	GLN	1173	1.257	109.207	79.399	1.00	96.53	C
ATOM	9122	CB	GLN	1173	0.689	107.979	78.658	1.00	96.53	C
ATOM	9123	CG	GLN	1173	-0.796	107.696	78.901	1.00	96.53	C
ATOM	9124	CD	GLN	1173	-1.566	108.055	77.642	1.00	96.53	C
ATOM	9125	OE1	GLN	1173	-2.099	109.155	77.514	1.00	96.53	O
ATOM	9126	NE2	GLN	1173	-1.628	107.093	76.683	1.00	96.53	N
ATOM	9127	C	GLN	1173	2.734	109.162	79.211	1.00	96.53	C
ATOM	9128	O	GLN	1173	3.237	108.568	78.259	1.00	96.53	O
ATOM	9129	N	LYS	1174	3.474	109.771	80.153	1.00	107.43	N
ATOM	9130	CA	LYS	1174	4.895	109.810	80.008	1.00	107.43	C
ATOM	9131	CB	LYS	1174	5.623	110.511	81.167	1.00	107.43	C
ATOM	9132	CG	LYS	1174	5.065	111.892	81.509	1.00	107.43	C
ATOM	9133	CD	LYS	1174	3.724	111.800	82.241	1.00	107.43	C
ATOM	9134	CE	LYS	1174	3.113	113.148	82.625	1.00	107.43	C
ATOM	9135	NZ	LYS	1174	2.731	113.896	81.408	1.00	107.43	N
ATOM	9136	C	LYS	1174	5.335	108.390	80.018	1.00	107.43	C
ATOM	9137	O	LYS	1174	4.922	107.608	80.875	1.00	107.43	O
ATOM	9138	N	GLY	1175	6.193	108.016	79.055	1.00	36.64	N
ATOM	9139	CA	GLY	1175	6.594	106.648	79.006	1.00	36.64	C
ATOM	9140	C	GLY	1175	7.202	106.385	77.669	1.00	36.64	C
ATOM	9141	O	GLY	1175	8.159	107.043	77.267	1.00	36.64	O
ATOM	9142	N	ILE	1176	6.665	105.379	76.954	1.00	82.41	N
ATOM	9143	CA	ILE	1176	7.267	104.980	75.716	1.00	82.41	C
ATOM	9144	CB	ILE	1176	6.631	103.739	75.168	1.00	82.41	C
ATOM	9145	CG1	ILE	1176	6.839	102.607	76.184	1.00	82.41	C
ATOM	9146	CG2	ILE	1176	7.228	103.429	73.785	1.00	82.41	C
ATOM	9147	CD1	ILE	1176	5.948	101.398	75.941	1.00	82.41	C
ATOM	9148	C	ILE	1176	7.197	106.059	74.677	1.00	82.41	C
ATOM	9149	O	ILE	1176	8.233	106.516	74.201	1.00	82.41	O
ATOM	9150	N	TYR	1177	5.995	106.581	74.374	1.00	84.01	N
ATOM	9151	CA	TYR	1177	5.839	107.560	73.329	1.00	84.01	C
ATOM	9152	CB	TYR	1177	4.384	108.043	73.222	1.00	84.01	C
ATOM	9153	CG	TYR	1177	4.300	109.028	72.112	1.00	84.01	C
ATOM	9154	CD1	TYR	1177	4.134	108.598	70.817	1.00	84.01	C
ATOM	9155	CD2	TYR	1177	4.383	110.376	72.367	1.00	84.01	C
ATOM	9156	CE1	TYR	1177	4.053	109.503	69.786	1.00	84.01	C
ATOM	9157	CE2	TYR	1177	4.302	111.285	71.341	1.00	84.01	C
ATOM	9158	CZ	TYR	1177	4.137	110.848	70.050	1.00	84.01	C
ATOM	9159	OH	TYR	1177	4.053	111.781	68.996	1.00	84.01	O
ATOM	9160	C	TYR	1177	6.698	108.729	73.696	1.00	84.01	C
ATOM	9161	O	TYR	1177	7.288	109.386	72.840	1.00	84.01	O
ATOM	9162	N	PHE	1178	6.763	109.020	75.003	1.00	110.45	N
ATOM	9163	CA	PHE	1178	7.535	110.101	75.543	1.00	110.45	C
ATOM	9164	CB	PHE	1178	7.414	110.102	77.079	1.00	110.45	C
ATOM	9165	CG	PHE	1178	8.029	111.323	77.665	1.00	110.45	C
ATOM	9166	CD1	PHE	1178	9.394	111.488	77.684	1.00	110.45	C
ATOM	9167	CD2	PHE	1178	7.225	112.285	78.231	1.00	110.45	C
ATOM	9168	CE1	PHE	1178	9.947	112.617	78.241	1.00	110.45	C
ATOM	9169	CE2	PHE	1178	7.771	113.414	78.790	1.00	110.45	C

ATOM	9170	CZ	PHE	1178	9.136	113.581	78.790	1.00	110.45	
ATOM	9171	C	PHE	1178	8.979	109.856	75.202	1.00	110.45	
ATOM	9172	O	PHE	1178	9.665	110.714	74.648	1.00	110.45	
ATOM	9173	N	SER	1179	9.473	108.640	75.484	1.00	79.81	
ATOM	9174	CA	SER	1179	10.854	108.357	75.234	1.00	79.81	
ATOM	9175	CB	SER	1179	11.255	106.930	75.648	1.00	79.81	
ATOM	9176	OG	SER	1179	11.156	106.780	77.057	1.00	79.81	
ATOM	9177	C	SER	1179	11.077	108.481	73.762	1.00	79.81	
ATOM	9178	O	SER	1179	12.189	108.733	73.310	1.00	79.81	
ATOM	9179	N	MET	1180	10.029	108.273	72.953	1.00	80.12	
ATOM	9180	CA	MET	1180	10.197	108.405	71.535	1.00	80.12	
ATOM	9181	CB	MET	1180	8.910	108.069	70.762	1.00	80.12	
ATOM	9182	CG	MET	1180	8.416	106.638	70.981	1.00	80.12	
ATOM	9183	SD	MET	1180	9.495	105.344	70.306	1.00	80.12	
ATOM	9184	CE	MET	1180	8.654	104.002	71.194	1.00	80.12	
ATOM	9185	C	MET	1180	10.512	109.830	71.219	1.00	80.12	
ATOM	9186	O	MET	1180	11.400	110.121	70.419	1.00	80.12	
ATOM	9187	N	VAL	1181	9.778	110.775	71.836	1.00	121.33	
ATOM	9188	CA	VAL	1181	10.087	112.138	71.541	1.00	121.33	
ATOM	9189	CB	VAL	1181	9.047	113.145	71.965	1.00	121.33	
ATOM	9190	CG1	VAL	1181	7.850	112.980	71.016	1.00	121.33	
ATOM	9191	CG2	VAL	1181	8.642	112.932	73.428	1.00	121.33	
ATOM	9192	C	VAL	1181	11.441	112.419	72.103	1.00	121.33	
ATOM	9193	O	VAL	1181	12.203	113.202	71.538	1.00	121.33	
ATOM	9194	N	SER	1182	11.783	111.777	73.238	1.00	59.34	
ATOM	9195	CA	SER	1182	13.078	111.993	73.818	1.00	59.34	
ATOM	9196	CB	SER	1182	13.224	111.461	75.263	1.00	59.34	
ATOM	9197	OG	SER	1182	13.073	110.052	75.330	1.00	59.34	
ATOM	9198	C	SER	1182	14.203	111.444	72.945	1.00	59.34	
ATOM	9199	O	SER	1182	15.228	112.106	72.801	1.00	59.34	
ATOM	9200	N	VAL	1183	14.060	110.244	72.323	1.00	126.23	
ATOM	9201	CA	VAL	1183	15.090	109.658	71.481	1.00	126.23	
ATOM	9202	CB	VAL	1183	14.734	108.314	70.916	1.00	126.23	
ATOM	9203	CG1	VAL	1183	13.533	108.461	69.969	1.00	126.23	
ATOM	9204	CG2	VAL	1183	15.987	107.745	70.231	1.00	126.23	
ATOM	9205	C	VAL	1183	15.238	110.619	70.345	1.00	126.23	
ATOM	9206	O	VAL	1183	16.333	110.848	69.833	1.00	126.23	
ATOM	9207	N	GLN	1184	14.102	111.227	69.956	1.00	54.87	
ATOM	9208	CA	GLN	1184	14.000	112.147	68.864	1.00	54.87	
ATOM	9209	CB	GLN	1184	12.550	112.609	68.681	1.00	54.87	
ATOM	9210	CG	GLN	1184	12.347	113.592	67.536	1.00	54.87	
ATOM	9211	CD	GLN	1184	10.866	113.922	67.527	1.00	54.87	
ATOM	9212	OE1								