

REMARK	4 XXXX COMPLIES WITH FORMAT V. 2.0									
COMPND	W:\zeph\SINDHU\DLG FILES\mutant4drug2\complex42.pdbqt									
AUTHOR	GENERATED BY OPEN BABEL 2.3.1									
ATOM	1	N	VAL	1	49.892	80.263	10.834	1.00	0.00	N
ATOM	2	HN1	VAL	1	50.399	79.422	11.111	1.00	0.00	H
ATOM	3	HN2	VAL	1	50.075	80.517	9.863	1.00	0.00	H
ATOM	4	HN3	VAL	1	48.889	80.096	10.758	1.00	0.00	H
ATOM	5	CA	VAL	1	50.201	81.372	11.764	1.00	0.00	C
ATOM	6	CB	VAL	1	49.457	82.606	11.357	1.00	0.00	C
ATOM	7	CG1	VAL	1	49.964	83.050	9.974	1.00	0.00	C
ATOM	8	CG2	VAL	1	47.952	82.293	11.392	1.00	0.00	C
ATOM	9	C	VAL	1	49.805	81.016	13.154	1.00	0.00	C
ATOM	10	O	VAL	1	49.554	79.860	13.460	1.00	0.00	O
ATOM	11	N	SER	2	49.723	82.000	14.059	1.00	0.00	N
ATOM	12	HN	SER	2	49.887	82.971	13.793	1.00	0.00	H
ATOM	13	CA	SER	2	49.399	81.652	15.409	1.00	0.00	C
ATOM	14	CB	SER	2	49.358	82.872	16.340	1.00	0.00	C
ATOM	15	OG	SER	2	50.656	83.435	16.447	1.00	0.00	O
ATOM	16	HG	SER	2	50.631	84.190	17.023	1.00	0.00	H
ATOM	17	C	SER	2	48.049	81.013	15.429	1.00	0.00	C
ATOM	18	O	SER	2	47.826	80.052	16.165	1.00	0.00	O
ATOM	19	N	VAL	3	47.104	81.516	14.613	1.00	0.00	N
ATOM	20	HN	VAL	3	47.304	82.281	13.968	1.00	0.00	H
ATOM	21	CA	VAL	3	45.808	80.924	14.697	1.00	0.00	C
ATOM	22	CB	VAL	3	44.778	81.611	13.836	1.00	0.00	C
ATOM	23	CG1	VAL	3	44.551	83.017	14.409	1.00	0.00	C
ATOM	24	CG2	VAL	3	45.241	81.639	12.369	1.00	0.00	C
ATOM	25	C	VAL	3	45.850	79.466	14.347	1.00	0.00	C
ATOM	26	O	VAL	3	45.628	78.653	15.232	1.00	0.00	O
ATOM	27	N	PHE	4	46.149	79.078	13.084	1.00	0.00	N
ATOM	28	HN	PHE	4	46.383	79.786	12.388	1.00	0.00	H
ATOM	29	CA	PHE	4	46.145	77.684	12.698	1.00	0.00	C
ATOM	30	CB	PHE	4	46.257	77.463	11.178	1.00	0.00	C
ATOM	31	CG	PHE	4	45.125	78.095	10.446	1.00	0.00	C
ATOM	32	CD1	PHE	4	45.183	79.426	10.104	1.00	0.00	C
ATOM	33	CD2	PHE	4	44.022	77.359	10.079	1.00	0.00	C
ATOM	34	CE1	PHE	4	44.154	80.024	9.420	1.00	0.00	C
ATOM	35	CE2	PHE	4	42.990	77.954	9.393	1.00	0.00	C
ATOM	36	CZ	PHE	4	43.052	79.287	9.063	1.00	0.00	C
ATOM	37	C	PHE	4	47.341	76.966	13.244	1.00	0.00	C
ATOM	38	O	PHE	4	47.236	75.917	13.879	1.00	0.00	O
ATOM	39	N	SER	5	48.529	77.534	12.976	1.00	0.00	N
ATOM	40	HN	SER	5	48.530	78.441	12.509	1.00	0.00	H
ATOM	41	CA	SER	5	49.796	76.947	13.304	1.00	0.00	C
ATOM	42	CB	SER	5	50.992	77.671	12.659	1.00	0.00	C
ATOM	43	OG	SER	5	52.206	77.036	13.030	1.00	0.00	O
ATOM	44	HG	SER	5	52.944	77.483	12.632	1.00	0.00	H
ATOM	45	C	SER	5	50.039	76.897	14.776	1.00	0.00	C
ATOM	46	O	SER	5	50.376	75.839	15.291	1.00	0.00	O
ATOM	47	N	MET	6	49.869	78.012	15.514	1.00	0.00	N
ATOM	48	HN	MET	6	49.542	78.877	15.083	1.00	0.00	H
ATOM	49	CA	MET	6	50.159	77.957	16.923	1.00	0.00	C
ATOM	50	CB	MET	6	49.996	79.299	17.654	1.00	0.00	C
ATOM	51	CG	MET	6	51.090	79.538	18.700	1.00	0.00	C
ATOM	52	SD	MET	6	51.236	78.287	20.008	1.00	0.00	S
ATOM	53	CE	MET	6	52.979	78.654	20.374	1.00	0.00	C
ATOM	54	C	MET	6	49.160	76.985	17.444	1.00	0.00	C
ATOM	55	O	MET	6	49.426	76.218	18.368	1.00	0.00	O
ATOM	56	N	PHE	7	47.984	76.979	16.792	1.00	0.00	N
ATOM	57	HN	PHE	7	47.841	77.638	16.027	1.00	0.00	H
ATOM	58	CA	PHE	7	46.927	76.078	17.136	1.00	0.00	C
ATOM	59	CB	PHE	7	45.736	76.126	16.172	1.00	0.00	C
ATOM	60	CG	PHE	7	44.622	75.235	16.598	1.00	0.00	C
ATOM	61	CD1	PHE	7	43.682	75.680	17.498	1.00	0.00	C
ATOM	62	CD2	PHE	7	44.509	73.958	16.095	1.00	0.00	C
ATOM	63	CE1	PHE	7	42.645	74.869	17.888	1.00	0.00	C
ATOM	64	CE2	PHE	7	43.473	73.142	16.480	1.00	0.00	C
ATOM	65	CZ	PHE	7	42.539	73.600	17.374	1.00	0.00	C
ATOM	66	C	PHE	7	47.472	74.707	16.988	1.00	0.00	C
ATOM	67	O	PHE	7	47.209	73.847	17.825	1.00	0.00	O
ATOM	68	N	ARG	8	48.216	74.438	15.898	1.00	0.00	N
ATOM	69	HN	ARG	8	48.399	75.132	15.173	1.00	0.00	H
ATOM	70	CA	ARG	8	48.728	73.108	15.836	1.00	0.00	C
ATOM	71	CB	ARG	8	48.276	72.344	14.580	1.00	0.00	C

ATOM	72	CG	ARG	8	48.716	70.880	14.572	1.00	0.00	C
ATOM	73	CD	ARG	8	47.840	69.983	13.696	1.00	0.00	C
ATOM	74	NE	ARG	8	47.756	70.599	12.342	1.00	0.00	N
ATOM	75	HE	ARG	8	46.980	71.219	12.109	1.00	0.00	H
ATOM	76	CZ	ARG	8	48.720	70.331	11.415	1.00	0.00	C
ATOM	77	NH1	ARG	8	49.754	69.501	11.734	1.00	0.00	N
ATOM	78	1HH1	ARG	8	50.475	69.301	11.041	1.00	0.00	H
ATOM	79	2HH1	ARG	8	49.805	69.082	12.662	1.00	0.00	H
ATOM	80	NH2	ARG	8	48.652	70.892	10.173	1.00	0.00	N
ATOM	81	1HH2	ARG	8	49.373	70.692	9.480	1.00	0.00	H
ATOM	82	2HH2	ARG	8	47.879	71.513	9.934	1.00	0.00	H
ATOM	83	C	ARG	8	50.218	73.190	15.880	1.00	0.00	C
ATOM	84	O	ARG	8	50.885	73.175	14.847	1.00	0.00	O
ATOM	85	N	TYR	9	50.779	73.251	17.103	1.00	0.00	N
ATOM	86	HN	TYR	9	50.178	73.200	17.925	1.00	0.00	H
ATOM	87	CA	TYR	9	52.195	73.385	17.285	1.00	0.00	C
ATOM	88	CB	TYR	9	52.605	74.640	18.081	1.00	0.00	C
ATOM	89	CG	TYR	9	52.289	74.453	19.526	1.00	0.00	C
ATOM	90	CD1	TYR	9	50.998	74.265	19.958	1.00	0.00	C
ATOM	91	CD2	TYR	9	53.298	74.511	20.461	1.00	0.00	C
ATOM	92	CE1	TYR	9	50.720	74.103	21.297	1.00	0.00	C
ATOM	93	CE2	TYR	9	53.026	74.352	21.800	1.00	0.00	C
ATOM	94	CZ	TYR	9	51.737	74.145	22.222	1.00	0.00	C
ATOM	95	OH	TYR	9	51.462	73.981	23.596	1.00	0.00	O
ATOM	96	HH	TYR	9	52.164	74.010	24.235	1.00	0.00	H
ATOM	97	C	TYR	9	52.615	72.168	18.063	1.00	0.00	C
ATOM	98	O	TYR	9	51.836	71.228	18.198	1.00	0.00	O
ATOM	99	N	SER	10	53.879	72.134	18.538	1.00	0.00	N
ATOM	100	HN	SER	10	54.486	72.923	18.316	1.00	0.00	H
ATOM	101	CA	SER	10	54.437	71.066	19.336	1.00	0.00	C
ATOM	102	CB	SER	10	54.022	71.091	20.819	1.00	0.00	C
ATOM	103	OG	SER	10	54.689	72.149	21.490	1.00	0.00	O
ATOM	104	HG	SER	10	54.433	72.164	22.405	1.00	0.00	H
ATOM	105	C	SER	10	54.190	69.668	18.820	1.00	0.00	C
ATOM	106	O	SER	10	53.343	68.970	19.374	1.00	0.00	O
ATOM	107	N	ASN	11	54.890	69.207	17.745	1.00	0.00	N
ATOM	108	HN	ASN	11	55.546	69.803	17.240	1.00	0.00	H
ATOM	109	CA	ASN	11	54.658	67.828	17.352	1.00	0.00	C
ATOM	110	CB	ASN	11	53.424	67.663	16.434	1.00	0.00	C
ATOM	111	CG	ASN	11	52.119	68.011	17.135	1.00	0.00	C
ATOM	112	OD1	ASN	11	51.749	67.395	18.134	1.00	0.00	O
ATOM	113	ND2	ASN	11	51.403	69.035	16.599	1.00	0.00	N
ATOM	114	1HD2	ASN	11	50.528	69.268	17.069	1.00	0.00	H
ATOM	115	2HD2	ASN	11	51.710	69.546	15.771	1.00	0.00	H
ATOM	116	C	ASN	11	55.749	67.277	16.466	1.00	0.00	C
ATOM	117	O	ASN	11	55.626	67.387	15.247	1.00	0.00	O
ATOM	118	N	TRP	12	56.846	66.680	16.989	1.00	0.00	N
ATOM	119	HN	TRP	12	57.027	66.669	17.993	1.00	0.00	H
ATOM	120	CA	TRP	12	57.745	66.060	16.043	1.00	0.00	C
ATOM	121	CB	TRP	12	59.087	65.647	16.669	1.00	0.00	C
ATOM	122	CG	TRP	12	60.020	64.969	15.697	1.00	0.00	C
ATOM	123	CD2	TRP	12	61.297	64.415	16.051	1.00	0.00	C
ATOM	124	CD1	TRP	12	59.862	64.745	14.360	1.00	0.00	C
ATOM	125	NE1	TRP	12	60.961	64.088	13.860	1.00	0.00	N
ATOM	126	HE1	TRP	12	61.095	63.803	12.890	1.00	0.00	H
ATOM	127	CE2	TRP	12	61.852	63.880	14.893	1.00	0.00	C
ATOM	128	CE3	TRP	12	61.951	64.361	17.250	1.00	0.00	C
ATOM	129	CZ2	TRP	12	63.078	63.276	14.910	1.00	0.00	C
ATOM	130	CZ3	TRP	12	63.186	63.750	17.265	1.00	0.00	C
ATOM	131	CH2	TRP	12	63.737	63.219	16.118	1.00	0.00	C
ATOM	132	C	TRP	12	57.135	64.801	15.486	1.00	0.00	C
ATOM	133	O	TRP	12	56.562	64.775	14.398	1.00	0.00	O
ATOM	134	N	LEU	13	57.152	63.740	16.319	1.00	0.00	N
ATOM	135	HN	LEU	13	57.534	63.874	17.255	1.00	0.00	H
ATOM	136	CA	LEU	13	56.667	62.435	15.971	1.00	0.00	C
ATOM	137	CB	LEU	13	56.875	61.385	17.080	1.00	0.00	C
ATOM	138	CG	LEU	13	58.352	61.112	17.428	1.00	0.00	C
ATOM	139	CD1	LEU	13	59.108	60.465	16.256	1.00	0.00	C
ATOM	140	CD2	LEU	13	59.040	62.382	17.949	1.00	0.00	C
ATOM	141	C	LEU	13	55.202	62.601	15.801	1.00	0.00	C
ATOM	142	O	LEU	13	54.540	61.833	15.104	1.00	0.00	O
ATOM	143	N	ASP	14	54.651	63.589	16.522	1.00	0.00	N
ATOM	144	HN	ASP	14	55.240	64.174	17.115	1.00	0.00	H
ATOM	145	CA	ASP	14	53.243	63.826	16.463	1.00	0.00	C

ATOM	146	CB	ASP	14	52.778	64.957	17.398	1.00	0.00	C
ATOM	147	CG	ASP	14	52.868	64.515	18.852	1.00	0.00	C
ATOM	148	OD1	ASP	14	53.018	63.290	19.102	1.00	0.00	O
ATOM	149	OD2	ASP	14	52.780	65.409	19.737	1.00	0.00	O
ATOM	150	C	ASP	14	52.846	64.231	15.076	1.00	0.00	C
ATOM	151	O	ASP	14	52.010	63.591	14.441	1.00	0.00	O
ATOM	152	N	LYS	15	53.507	65.264	14.528	1.00	0.00	N
ATOM	153	HN	LYS	15	54.305	65.671	15.017	1.00	0.00	H
ATOM	154	CA	LYS	15	53.100	65.800	13.260	1.00	0.00	C
ATOM	155	CB	LYS	15	53.983	66.985	12.836	1.00	0.00	C
ATOM	156	CG	LYS	15	53.324	67.934	11.835	1.00	0.00	C
ATOM	157	CD	LYS	15	54.052	69.278	11.749	1.00	0.00	C
ATOM	158	CE	LYS	15	53.246	70.388	11.076	1.00	0.00	C
ATOM	159	NZ	LYS	15	52.354	71.034	12.065	1.00	0.00	N
ATOM	160	HZ1	LYS	15	51.816	71.775	11.616	1.00	0.00	H
ATOM	161	HZ2	LYS	15	52.867	71.373	12.879	1.00	0.00	H
ATOM	162	HZ3	LYS	15	51.754	70.358	12.538	1.00	0.00	H
ATOM	163	C	LYS	15	53.204	64.722	12.229	1.00	0.00	C
ATOM	164	O	LYS	15	52.372	64.623	11.327	1.00	0.00	O
ATOM	165	N	LEU	16	54.248	63.886	12.334	1.00	0.00	N
ATOM	166	HN	LEU	16	54.909	64.005	13.101	1.00	0.00	H
ATOM	167	CA	LEU	16	54.451	62.829	11.388	1.00	0.00	C
ATOM	168	CB	LEU	16	55.757	62.066	11.656	1.00	0.00	C
ATOM	169	CG	LEU	16	57.000	62.976	11.620	1.00	0.00	C
ATOM	170	CD1	LEU	16	58.289	62.164	11.812	1.00	0.00	C
ATOM	171	CD2	LEU	16	57.016	63.859	10.361	1.00	0.00	C
ATOM	172	C	LEU	16	53.327	61.846	11.479	1.00	0.00	C
ATOM	173	O	LEU	16	52.752	61.452	10.465	1.00	0.00	O
ATOM	174	N	TYR	17	52.947	61.442	12.704	1.00	0.00	N
ATOM	175	HN	TYR	17	53.383	61.825	13.543	1.00	0.00	H
ATOM	176	CA	TYR	17	51.910	60.456	12.795	1.00	0.00	C
ATOM	177	CB	TYR	17	51.585	59.954	14.210	1.00	0.00	C
ATOM	178	CG	TYR	17	50.658	58.804	13.983	1.00	0.00	C
ATOM	179	CD1	TYR	17	51.168	57.597	13.560	1.00	0.00	C
ATOM	180	CD2	TYR	17	49.299	58.915	14.176	1.00	0.00	C
ATOM	181	CE1	TYR	17	50.345	56.519	13.333	1.00	0.00	C
ATOM	182	CE2	TYR	17	48.469	57.839	13.950	1.00	0.00	C
ATOM	183	CZ	TYR	17	48.991	56.638	13.528	1.00	0.00	C
ATOM	184	OH	TYR	17	48.147	55.532	13.295	1.00	0.00	O
ATOM	185	HH	TYR	17	48.507	54.703	13.004	1.00	0.00	H
ATOM	186	C	TYR	17	50.671	61.068	12.238	1.00	0.00	C
ATOM	187	O	TYR	17	49.844	60.387	11.635	1.00	0.00	O
ATOM	188	N	MET	18	50.503	62.385	12.455	1.00	0.00	N
ATOM	189	HN	MET	18	51.226	62.916	12.941	1.00	0.00	H
ATOM	190	CA	MET	18	49.314	63.045	12.007	1.00	0.00	C
ATOM	191	CB	MET	18	49.343	64.545	12.346	1.00	0.00	C
ATOM	192	CG	MET	18	48.098	65.313	11.895	1.00	0.00	C
ATOM	193	SD	MET	18	48.041	67.038	12.467	1.00	0.00	S
ATOM	194	CE	MET	18	47.541	66.623	14.162	1.00	0.00	C
ATOM	195	C	MET	18	49.166	62.920	10.516	1.00	0.00	C
ATOM	196	O	MET	18	48.141	62.446	10.030	1.00	0.00	O
ATOM	197	N	VAL	19	50.213	63.258	9.744	1.00	0.00	N
ATOM	198	HN	VAL	19	51.101	63.516	10.175	1.00	0.00	H
ATOM	199	CA	VAL	19	50.086	63.257	8.314	1.00	0.00	C
ATOM	200	CB	VAL	19	51.360	63.649	7.627	1.00	0.00	C
ATOM	201	CG1	VAL	19	51.166	63.512	6.107	1.00	0.00	C
ATOM	202	CG2	VAL	19	51.737	65.069	8.081	1.00	0.00	C
ATOM	203	C	VAL	19	49.742	61.876	7.872	1.00	0.00	C
ATOM	204	O	VAL	19	48.964	61.690	6.936	1.00	0.00	O
ATOM	205	N	VAL	20	50.320	60.864	8.538	1.00	0.00	N
ATOM	206	HN	VAL	20	50.942	61.061	9.322	1.00	0.00	H
ATOM	207	CA	VAL	20	50.066	59.509	8.150	1.00	0.00	C
ATOM	208	CB	VAL	20	50.752	58.504	9.028	1.00	0.00	C
ATOM	209	CG1	VAL	20	50.251	57.105	8.633	1.00	0.00	C
ATOM	210	CG2	VAL	20	52.276	58.673	8.898	1.00	0.00	C
ATOM	211	C	VAL	20	48.600	59.225	8.264	1.00	0.00	C
ATOM	212	O	VAL	20	47.974	58.763	7.312	1.00	0.00	O
ATOM	213	N	GLY	21	48.004	59.553	9.424	1.00	0.00	N
ATOM	214	HN	GLY	21	48.545	60.045	10.135	1.00	0.00	H
ATOM	215	CA	GLY	21	46.631	59.232	9.693	1.00	0.00	C
ATOM	216	C	GLY	21	45.744	59.893	8.692	1.00	0.00	C
ATOM	217	O	GLY	21	44.750	59.306	8.266	1.00	0.00	O
ATOM	218	N	THR	22	46.066	61.139	8.292	1.00	0.00	N
ATOM	219	HN	THR	22	46.898	61.609	8.649	1.00	0.00	H

ATOM	220	CA	THR	22	45.201	61.780	7.350	1.00	0.00	C
ATOM	221	CB	THR	22	45.586	63.178	6.950	1.00	0.00	C
ATOM	222	OG1	THR	22	46.933	63.226	6.512	1.00	0.00	O
ATOM	223	HG1	THR	22	47.176	64.109	6.259	1.00	0.00	H
ATOM	224	CG2	THR	22	45.342	64.143	8.118	1.00	0.00	C
ATOM	225	C	THR	22	45.164	60.943	6.120	1.00	0.00	C
ATOM	226	O	THR	22	44.093	60.698	5.573	1.00	0.00	O
ATOM	227	N	LEU	23	46.323	60.401	5.711	1.00	0.00	N
ATOM	228	HN	LEU	23	47.164	60.537	6.272	1.00	0.00	H
ATOM	229	CA	LEU	23	46.403	59.635	4.502	1.00	0.00	C
ATOM	230	CB	LEU	23	47.780	58.974	4.345	1.00	0.00	C
ATOM	231	CG	LEU	23	47.908	58.124	3.071	1.00	0.00	C
ATOM	232	CD1	LEU	23	47.893	59.002	1.811	1.00	0.00	C
ATOM	233	CD2	LEU	23	49.123	57.186	3.150	1.00	0.00	C
ATOM	234	C	LEU	23	45.416	58.516	4.577	1.00	0.00	C
ATOM	235	O	LEU	23	44.650	58.287	3.640	1.00	0.00	O
ATOM	236	N	ALA	24	45.369	57.826	5.728	1.00	0.00	N
ATOM	237	HN	ALA	24	45.959	58.107	6.511	1.00	0.00	H
ATOM	238	CA	ALA	24	44.497	56.699	5.865	1.00	0.00	C
ATOM	239	CB	ALA	24	44.534	56.089	7.274	1.00	0.00	C
ATOM	240	C	ALA	24	43.106	57.179	5.618	1.00	0.00	C
ATOM	241	O	ALA	24	42.304	56.499	4.979	1.00	0.00	O
ATOM	242	N	ALA	25	42.785	58.390	6.099	1.00	0.00	N
ATOM	243	HN	ALA	25	43.481	58.949	6.592	1.00	0.00	H
ATOM	244	CA	ALA	25	41.456	58.890	5.914	1.00	0.00	C
ATOM	245	CB	ALA	25	41.270	60.297	6.505	1.00	0.00	C
ATOM	246	C	ALA	25	41.186	58.969	4.441	1.00	0.00	C
ATOM	247	O	ALA	25	40.116	58.583	3.971	1.00	0.00	O
ATOM	248	N	ILE	26	42.182	59.424	3.663	1.00	0.00	N
ATOM	249	HN	ILE	26	43.098	59.614	4.069	1.00	0.00	H
ATOM	250	CA	ILE	26	41.961	59.643	2.265	1.00	0.00	C
ATOM	251	CB	ILE	26	43.226	60.085	1.587	1.00	0.00	C
ATOM	252	CG1	ILE	26	43.823	61.304	2.314	1.00	0.00	C
ATOM	253	CG2	ILE	26	42.918	60.319	0.103	1.00	0.00	C
ATOM	254	CD1	ILE	26	42.829	62.440	2.531	1.00	0.00	C
ATOM	255	C	ILE	26	41.544	58.355	1.613	1.00	0.00	C
ATOM	256	O	ILE	26	40.477	58.274	1.006	1.00	0.00	O
ATOM	257	N	ILE	27	42.328	57.281	1.803	1.00	0.00	N
ATOM	258	HN	ILE	27	43.124	57.353	2.437	1.00	0.00	H
ATOM	259	CA	ILE	27	42.075	56.032	1.136	1.00	0.00	C
ATOM	260	CB	ILE	27	43.068	54.963	1.486	1.00	0.00	C
ATOM	261	CG1	ILE	27	42.738	53.681	0.717	1.00	0.00	C
ATOM	262	CG2	ILE	27	43.086	54.768	3.007	1.00	0.00	C
ATOM	263	CD1	ILE	27	43.822	52.617	0.844	1.00	0.00	C
ATOM	264	C	ILE	27	40.725	55.511	1.519	1.00	0.00	C
ATOM	265	O	ILE	27	40.014	54.937	0.697	1.00	0.00	O
ATOM	266	N	HIS	28	40.357	55.686	2.794	1.00	0.00	N
ATOM	267	HN	HIS	28	40.995	56.193	3.407	1.00	0.00	H
ATOM	268	CA	HIS	28	39.127	55.210	3.357	1.00	0.00	C
ATOM	269	ND1	HIS	28	37.340	53.973	5.689	1.00	0.00	N
ATOM	270	HD1	HIS	28	37.628	53.172	5.128	1.00	0.00	H
ATOM	271	CG	HIS	28	37.895	55.232	5.669	1.00	0.00	C
ATOM	272	CB	HIS	28	39.077	55.643	4.843	1.00	0.00	C
ATOM	273	NE2	HIS	28	36.207	55.190	7.168	1.00	0.00	N
ATOM	274	HE2	HIS	28	35.534	55.474	7.880	1.00	0.00	H
ATOM	275	CD2	HIS	28	37.193	55.961	6.579	1.00	0.00	C
ATOM	276	CE1	HIS	28	36.334	54.004	6.601	1.00	0.00	C
ATOM	277	C	HIS	28	37.946	55.775	2.605	1.00	0.00	C
ATOM	278	O	HIS	28	37.054	55.029	2.191	1.00	0.00	O
ATOM	279	N	GLY	29	37.925	57.103	2.366	1.00	0.00	N
ATOM	280	HN	GLY	29	38.713	57.683	2.655	1.00	0.00	H
ATOM	281	CA	GLY	29	36.797	57.705	1.705	1.00	0.00	C
ATOM	282	C	GLY	29	36.691	57.108	0.356	1.00	0.00	C
ATOM	283	O	GLY	29	35.600	56.767	-0.085	1.00	0.00	O
ATOM	284	N	ALA	30	37.839	56.925	-0.312	1.00	0.00	N
ATOM	285	HN	ALA	30	38.719	57.173	0.141	1.00	0.00	H
ATOM	286	CA	ALA	30	37.870	56.392	-1.641	1.00	0.00	C
ATOM	287	CB	ALA	30	39.297	56.230	-2.186	1.00	0.00	C
ATOM	288	C	ALA	30	37.236	55.037	-1.601	1.00	0.00	C
ATOM	289	O	ALA	30	36.612	54.605	-2.568	1.00	0.00	O
ATOM	290	N	GLY	31	37.382	54.321	-0.473	1.00	0.00	N
ATOM	291	HN	GLY	31	37.868	54.722	0.329	1.00	0.00	H
ATOM	292	CA	GLY	31	36.851	52.991	-0.404	1.00	0.00	C
ATOM	293	C	GLY	31	35.368	53.013	-0.668	1.00	0.00	C

ATOM	294	O	GLY	31	34.855	52.179	-1.411	1.00	0.00	O
ATOM	295	N	LEU	32	34.634	53.988	-0.100	1.00	0.00	N
ATOM	296	HN	LEU	32	35.093	54.726	0.434	1.00	0.00	H
ATOM	297	CA	LEU	32	33.202	53.989	-0.246	1.00	0.00	C
ATOM	298	CB	LEU	32	32.513	55.171	0.466	1.00	0.00	C
ATOM	299	CG	LEU	32	32.480	55.060	2.003	1.00	0.00	C
ATOM	300	CD1	LEU	32	31.584	53.896	2.450	1.00	0.00	C
ATOM	301	CD2	LEU	32	33.891	54.993	2.606	1.00	0.00	C
ATOM	302	C	LEU	32	32.783	54.047	-1.695	1.00	0.00	C
ATOM	303	O	LEU	32	31.911	53.263	-2.067	1.00	0.00	O
ATOM	304	N	PRO	33	33.274	54.904	-2.559	1.00	0.00	N
ATOM	305	CA	PRO	33	32.869	54.892	-3.934	1.00	0.00	C
ATOM	306	CD	PRO	33	34.040	56.083	-2.258	1.00	0.00	C
ATOM	307	CB	PRO	33	33.464	56.123	-4.592	1.00	0.00	C
ATOM	308	CG	PRO	33	34.581	56.544	-3.624	1.00	0.00	C
ATOM	309	C	PRO	33	33.356	53.720	-4.685	1.00	0.00	C
ATOM	310	O	PRO	33	32.668	53.282	-5.604	1.00	0.00	O
ATOM	311	N	LEU	34	34.557	53.234	-4.342	1.00	0.00	N
ATOM	312	HN	LEU	34	35.073	53.619	-3.551	1.00	0.00	H
ATOM	313	CA	LEU	34	35.092	52.164	-5.114	1.00	0.00	C
ATOM	314	CB	LEU	34	36.472	51.697	-4.622	1.00	0.00	C
ATOM	315	CG	LEU	34	37.186	50.749	-5.607	1.00	0.00	C
ATOM	316	CD1	LEU	34	36.411	49.440	-5.821	1.00	0.00	C
ATOM	317	CD2	LEU	34	37.510	51.477	-6.923	1.00	0.00	C
ATOM	318	C	LEU	34	34.120	51.058	-4.921	1.00	0.00	C
ATOM	319	O	LEU	34	33.751	50.360	-5.864	1.00	0.00	O
ATOM	320	N	MET	35	33.617	50.949	-3.678	1.00	0.00	N
ATOM	321	HN	MET	35	33.905	51.617	-2.963	1.00	0.00	H
ATOM	322	CA	MET	35	32.690	49.920	-3.337	1.00	0.00	C
ATOM	323	CB	MET	35	32.193	50.005	-1.886	1.00	0.00	C
ATOM	324	CG	MET	35	31.215	48.883	-1.527	1.00	0.00	C
ATOM	325	SD	MET	35	31.975	47.235	-1.396	1.00	0.00	S
ATOM	326	CE	MET	35	32.801	47.554	0.190	1.00	0.00	C
ATOM	327	C	MET	35	31.501	50.085	-4.229	1.00	0.00	C
ATOM	328	O	MET	35	30.886	49.104	-4.640	1.00	0.00	O
ATOM	329	N	MET	36	31.121	51.339	-4.541	1.00	0.00	N
ATOM	330	HN	MET	36	31.635	52.147	-4.189	1.00	0.00	H
ATOM	331	CA	MET	36	29.972	51.503	-5.383	1.00	0.00	C
ATOM	332	CB	MET	36	29.629	52.980	-5.626	1.00	0.00	C
ATOM	333	CG	MET	36	28.248	53.186	-6.246	1.00	0.00	C
ATOM	334	SD	MET	36	26.869	52.830	-5.117	1.00	0.00	S
ATOM	335	CE	MET	36	27.072	51.027	-5.153	1.00	0.00	C
ATOM	336	C	MET	36	30.234	50.863	-6.718	1.00	0.00	C
ATOM	337	O	MET	36	29.472	50.006	-7.167	1.00	0.00	O
ATOM	338	N	LEU	37	31.387	51.179	-7.338	1.00	0.00	N
ATOM	339	HN	LEU	37	32.081	51.740	-6.843	1.00	0.00	H
ATOM	340	CA	LEU	37	31.663	50.745	-8.680	1.00	0.00	C
ATOM	341	CB	LEU	37	33.051	51.218	-9.150	1.00	0.00	C
ATOM	342	CG	LEU	37	33.305	51.110	-10.668	1.00	0.00	C
ATOM	343	CD1	LEU	37	33.228	49.668	-11.190	1.00	0.00	C
ATOM	344	CD2	LEU	37	32.400	52.084	-11.437	1.00	0.00	C
ATOM	345	C	LEU	37	31.638	49.244	-8.748	1.00	0.00	C
ATOM	346	O	LEU	37	31.043	48.670	-9.663	1.00	0.00	O
ATOM	347	N	VAL	38	32.259	48.558	-7.771	1.00	0.00	N
ATOM	348	HN	VAL	38	32.690	49.060	-6.995	1.00	0.00	H
ATOM	349	CA	VAL	38	32.319	47.122	-7.813	1.00	0.00	C
ATOM	350	CB	VAL	38	33.064	46.517	-6.662	1.00	0.00	C
ATOM	351	CG1	VAL	38	34.532	46.973	-6.729	1.00	0.00	C
ATOM	352	CG2	VAL	38	32.349	46.900	-5.358	1.00	0.00	C
ATOM	353	C	VAL	38	30.921	46.603	-7.781	1.00	0.00	C
ATOM	354	O	VAL	38	30.596	45.621	-8.445	1.00	0.00	O
ATOM	355	N	PHE	39	30.046	47.286	-7.026	1.00	0.00	N
ATOM	356	HN	PHE	39	30.367	48.104	-6.509	1.00	0.00	H
ATOM	357	CA	PHE	39	28.673	46.893	-6.930	1.00	0.00	C
ATOM	358	CB	PHE	39	27.859	47.921	-6.117	1.00	0.00	C
ATOM	359	CG	PHE	39	26.392	47.709	-6.299	1.00	0.00	C
ATOM	360	CD1	PHE	39	25.712	46.762	-5.570	1.00	0.00	C
ATOM	361	CD2	PHE	39	25.697	48.470	-7.212	1.00	0.00	C
ATOM	362	CE1	PHE	39	24.360	46.581	-5.750	1.00	0.00	C
ATOM	363	CE2	PHE	39	24.345	48.296	-7.394	1.00	0.00	C
ATOM	364	CZ	PHE	39	23.674	47.347	-6.663	1.00	0.00	C
ATOM	365	C	PHE	39	28.155	46.849	-8.333	1.00	0.00	C
ATOM	366	O	PHE	39	27.387	45.960	-8.692	1.00	0.00	O
ATOM	367	N	GLY	40	28.556	47.818	-9.171	1.00	0.00	N

ATOM	368	HN	GLY	40	29.197	48.543	-8.849	1.00	0.00	H
ATOM	369	CA	GLY	40	28.076	47.827	-10.523	1.00	0.00	C
ATOM	370	C	GLY	40	28.566	46.674	-11.351	1.00	0.00	C
ATOM	371	O	GLY	40	27.788	46.016	-12.035	1.00	0.00	O
ATOM	372	N	GLU	41	29.869	46.367	-11.316	1.00	0.00	N
ATOM	373	HN	GLU	41	30.498	46.850	-10.674	1.00	0.00	H
ATOM	374	CA	GLU	41	30.368	45.347	-12.196	1.00	0.00	C
ATOM	375	CB	GLU	41	31.893	45.189	-12.092	1.00	0.00	C
ATOM	376	CG	GLU	41	32.639	46.423	-12.605	1.00	0.00	C
ATOM	377	CD	GLU	41	34.115	46.266	-12.275	1.00	0.00	C
ATOM	378	OE1	GLU	41	34.780	45.414	-12.924	1.00	0.00	O
ATOM	379	OE2	GLU	41	34.595	46.992	-11.366	1.00	0.00	O
ATOM	380	C	GLU	41	29.719	44.047	-11.848	1.00	0.00	C
ATOM	381	O	GLU	41	29.418	43.231	-12.719	1.00	0.00	O
ATOM	382	N	MET	42	29.498	43.810	-10.546	1.00	0.00	N
ATOM	383	HN	MET	42	29.775	44.491	-9.839	1.00	0.00	H
ATOM	384	CA	MET	42	28.867	42.585	-10.171	1.00	0.00	C
ATOM	385	CB	MET	42	28.736	42.402	-8.650	1.00	0.00	C
ATOM	386	CG	MET	42	27.692	43.323	-8.019	1.00	0.00	C
ATOM	387	SD	MET	42	27.387	43.041	-6.249	1.00	0.00	S
ATOM	388	CE	MET	42	28.963	43.742	-5.678	1.00	0.00	C
ATOM	389	C	MET	42	27.483	42.607	-10.737	1.00	0.00	C
ATOM	390	O	MET	42	26.982	41.597	-11.229	1.00	0.00	O
ATOM	391	N	THR	43	26.827	43.785	-10.688	1.00	0.00	N
ATOM	392	HN	THR	43	27.298	44.611	-10.320	1.00	0.00	H
ATOM	393	CA	THR	43	25.473	43.885	-11.149	1.00	0.00	C
ATOM	394	CB	THR	43	24.753	45.155	-10.749	1.00	0.00	C
ATOM	395	OG1	THR	43	25.344	46.313	-11.310	1.00	0.00	O
ATOM	396	HG1	THR	43	24.892	47.110	-11.059	1.00	0.00	H
ATOM	397	CG2	THR	43	24.785	45.257	-9.217	1.00	0.00	C
ATOM	398	C	THR	43	25.398	43.682	-12.639	1.00	0.00	C
ATOM	399	O	THR	43	24.421	43.116	-13.127	1.00	0.00	O
ATOM	400	N	ASP	44	26.410	44.139	-13.410	1.00	0.00	N
ATOM	401	HN	ASP	44	27.209	44.601	-12.976	1.00	0.00	H
ATOM	402	CA	ASP	44	26.368	43.977	-14.843	1.00	0.00	C
ATOM	403	CB	ASP	44	27.596	44.560	-15.572	1.00	0.00	C
ATOM	404	CG	ASP	44	27.431	46.059	-15.758	1.00	0.00	C
ATOM	405	OD1	ASP	44	26.307	46.480	-16.140	1.00	0.00	O
ATOM	406	OD2	ASP	44	28.423	46.802	-15.531	1.00	0.00	O
ATOM	407	C	ASP	44	26.344	42.524	-15.214	1.00	0.00	C
ATOM	408	O	ASP	44	25.503	42.083	-15.996	1.00	0.00	O
ATOM	409	N	ILE	45	27.245	41.724	-14.623	1.00	0.00	N
ATOM	410	HN	ILE	45	27.872	42.107	-13.916	1.00	0.00	H
ATOM	411	CA	ILE	45	27.335	40.335	-14.976	1.00	0.00	C
ATOM	412	CB	ILE	45	28.386	39.589	-14.210	1.00	0.00	C
ATOM	413	CG1	ILE	45	29.768	40.192	-14.512	1.00	0.00	C
ATOM	414	CG2	ILE	45	28.274	38.098	-14.577	1.00	0.00	C
ATOM	415	CD1	ILE	45	30.866	39.726	-13.557	1.00	0.00	C
ATOM	416	C	ILE	45	26.002	39.739	-14.662	1.00	0.00	C
ATOM	417	O	ILE	45	25.527	38.819	-15.329	1.00	0.00	O
ATOM	418	N	PHE	46	25.376	40.281	-13.609	1.00	0.00	N
ATOM	419	HN	PHE	46	25.847	41.051	-13.134	1.00	0.00	H
ATOM	420	CA	PHE	46	24.104	39.874	-13.092	1.00	0.00	C
ATOM	421	CB	PHE	46	23.724	40.758	-11.891	1.00	0.00	C
ATOM	422	CG	PHE	46	22.509	40.225	-11.219	1.00	0.00	C
ATOM	423	CD1	PHE	46	22.609	39.132	-10.393	1.00	0.00	C
ATOM	424	CD2	PHE	46	21.285	40.830	-11.388	1.00	0.00	C
ATOM	425	CE1	PHE	46	21.498	38.634	-9.756	1.00	0.00	C
ATOM	426	CE2	PHE	46	20.170	40.337	-10.753	1.00	0.00	C
ATOM	427	CZ	PHE	46	20.276	39.236	-9.937	1.00	0.00	C
ATOM	428	C	PHE	46	23.051	40.049	-14.156	1.00	0.00	C
ATOM	429	O	PHE	46	22.150	39.218	-14.299	1.00	0.00	O
ATOM	430	N	ALA	47	23.105	41.174	-14.895	1.00	0.00	N
ATOM	431	HN	ALA	47	23.848	41.850	-14.715	1.00	0.00	H
ATOM	432	CA	ALA	47	22.146	41.450	-15.930	1.00	0.00	C
ATOM	433	CB	ALA	47	22.318	42.853	-16.539	1.00	0.00	C
ATOM	434	C	ALA	47	22.284	40.473	-17.060	1.00	0.00	C
ATOM	435	O	ALA	47	21.294	39.943	-17.561	1.00	0.00	O
ATOM	436	N	ASN	48	23.536	40.194	-17.470	1.00	0.00	N
ATOM	437	HN	ASN	48	24.321	40.594	-16.955	1.00	0.00	H
ATOM	438	CA	ASN	48	23.810	39.355	-18.604	1.00	0.00	C
ATOM	439	CB	ASN	48	25.327	39.173	-18.814	1.00	0.00	C
ATOM	440	CG	ASN	48	25.598	38.402	-20.101	1.00	0.00	C
ATOM	441	OD1	ASN	48	24.897	37.451	-20.443	1.00	0.00	O

ATOM	442	ND2	ASN	48	26.661	38.824	-20.839	1.00	0.00	N
ATOM	443	1HD2	ASN	48	27.242	39.613	-20.555	1.00	0.00	H
ATOM	444	2HD2	ASN	48	26.842	38.308	-21.700	1.00	0.00	H
ATOM	445	C	ASN	48	23.228	38.005	-18.343	1.00	0.00	C
ATOM	446	O	ASN	48	22.571	37.418	-19.204	1.00	0.00	O
ATOM	447	N	ALA	49	23.451	37.480	-17.127	1.00	0.00	N
ATOM	448	HN	ALA	49	23.976	38.013	-16.434	1.00	0.00	H
ATOM	449	CA	ALA	49	22.958	36.180	-16.796	1.00	0.00	C
ATOM	450	CB	ALA	49	23.351	35.743	-15.376	1.00	0.00	C
ATOM	451	C	ALA	49	21.466	36.212	-16.856	1.00	0.00	C
ATOM	452	O	ALA	49	20.835	35.277	-17.342	1.00	0.00	O
ATOM	453	N	GLY	50	20.867	37.300	-16.343	1.00	0.00	N
ATOM	454	HN	GLY	50	21.450	38.044	-15.961	1.00	0.00	H
ATOM	455	CA	GLY	50	19.441	37.459	-16.310	1.00	0.00	C
ATOM	456	C	GLY	50	18.903	37.578	-17.706	1.00	0.00	C
ATOM	457	O	GLY	50	17.763	37.198	-17.973	1.00	0.00	O
ATOM	458	N	ASN	51	19.684	38.184	-18.621	1.00	0.00	N
ATOM	459	HN	ASN	51	20.618	38.497	-18.356	1.00	0.00	H
ATOM	460	CA	ASN	51	19.223	38.396	-19.963	1.00	0.00	C
ATOM	461	CB	ASN	51	20.243	39.119	-20.864	1.00	0.00	C
ATOM	462	CG	ASN	51	20.342	40.582	-20.460	1.00	0.00	C
ATOM	463	OD1	ASN	51	19.409	41.153	-19.899	1.00	0.00	O
ATOM	464	ND2	ASN	51	21.507	41.212	-20.768	1.00	0.00	N
ATOM	465	1HD2	ASN	51	21.573	42.193	-20.497	1.00	0.00	H
ATOM	466	2HD2	ASN	51	22.281	40.738	-21.233	1.00	0.00	H
ATOM	467	C	ASN	51	18.991	37.073	-20.617	1.00	0.00	C
ATOM	468	O	ASN	51	17.963	36.855	-21.253	1.00	0.00	O
ATOM	469	N	LEU	52	19.982	36.171	-20.508	1.00	0.00	N
ATOM	470	HN	LEU	52	20.822	36.432	-19.991	1.00	0.00	H
ATOM	471	CA	LEU	52	19.914	34.861	-21.083	1.00	0.00	C
ATOM	472	CB	LEU	52	21.281	34.152	-21.110	1.00	0.00	C
ATOM	473	CG	LEU	52	22.332	34.882	-21.974	1.00	0.00	C
ATOM	474	CD1	LEU	52	23.643	34.083	-22.058	1.00	0.00	C
ATOM	475	CD2	LEU	52	21.767	35.250	-23.355	1.00	0.00	C
ATOM	476	C	LEU	52	18.957	33.991	-20.314	1.00	0.00	C
ATOM	477	O	LEU	52	18.343	33.095	-20.890	1.00	0.00	O
ATOM	478	N	GLU	53	18.829	34.236	-18.980	1.00	0.00	N
ATOM	479	HN	GLU	53	19.290	35.085	-18.652	1.00	0.00	H
ATOM	480	CA	GLU	53	18.132	33.470	-17.944	1.00	0.00	C
ATOM	481	CB	GLU	53	18.598	33.913	-16.557	1.00	0.00	C
ATOM	482	CG	GLU	53	18.277	32.936	-15.433	1.00	0.00	C
ATOM	483	CD	GLU	53	18.878	33.534	-14.171	1.00	0.00	C
ATOM	484	OE1	GLU	53	18.921	34.790	-14.090	1.00	0.00	O
ATOM	485	OE2	GLU	53	19.310	32.755	-13.281	1.00	0.00	O
ATOM	486	C	GLU	53	16.636	33.384	-17.712	1.00	0.00	C
ATOM	487	O	GLU	53	15.982	32.405	-18.063	1.00	0.00	O
ATOM	488	N	ASP	54	16.007	34.494	-17.290	1.00	0.00	N
ATOM	489	HN	ASP	54	16.442	35.409	-17.410	1.00	0.00	H
ATOM	490	CA	ASP	54	14.709	34.381	-16.665	1.00	0.00	C
ATOM	491	CB	ASP	54	14.299	35.690	-15.954	1.00	0.00	C
ATOM	492	CG	ASP	54	13.346	35.433	-14.783	1.00	0.00	C
ATOM	493	OD1	ASP	54	12.840	34.292	-14.620	1.00	0.00	O
ATOM	494	OD2	ASP	54	13.126	36.406	-14.012	1.00	0.00	O
ATOM	495	C	ASP	54	13.637	33.988	-17.638	1.00	0.00	C
ATOM	496	O	ASP	54	13.890	33.628	-18.784	1.00	0.00	O
ATOM	497	N	LEU	55	12.379	33.972	-17.165	1.00	0.00	N
ATOM	498	HN	LEU	55	12.205	34.171	-16.180	1.00	0.00	H
ATOM	499	CA	LEU	55	11.284	33.678	-18.033	1.00	0.00	C
ATOM	500	CB	LEU	55	9.940	33.822	-17.287	1.00	0.00	C
ATOM	501	CG	LEU	55	8.650	33.510	-18.077	1.00	0.00	C
ATOM	502	CD1	LEU	55	7.418	33.703	-17.180	1.00	0.00	C
ATOM	503	CD2	LEU	55	8.531	34.317	-19.381	1.00	0.00	C
ATOM	504	C	LEU	55	11.412	34.776	-19.024	1.00	0.00	C
ATOM	505	O	LEU	55	11.237	34.601	-20.229	1.00	0.00	O
ATOM	506	N	MET	56	11.773	35.946	-18.484	1.00	0.00	N
ATOM	507	HN	MET	56	11.888	35.996	-17.472	1.00	0.00	H
ATOM	508	CA	MET	56	12.004	37.121	-19.245	1.00	0.00	C
ATOM	509	CB	MET	56	12.253	38.347	-18.348	1.00	0.00	C
ATOM	510	CG	MET	56	10.991	38.712	-17.557	1.00	0.00	C
ATOM	511	SD	MET	56	11.160	40.038	-16.327	1.00	0.00	S
ATOM	512	CE	MET	56	9.450	39.900	-15.735	1.00	0.00	C
ATOM	513	C	MET	56	13.188	36.867	-20.120	1.00	0.00	C
ATOM	514	O	MET	56	13.239	37.358	-21.246	1.00	0.00	O
ATOM	515	N	SER	57	14.178	36.073	-19.656	1.00	0.00	N

ATOM	516	HN	SER	57	14.138	35.608	-18.749	1.00	0.00	H
ATOM	517	CA	SER	57	15.277	35.944	-20.543	1.00	0.00	C
ATOM	518	CB	SER	57	16.315	35.049	-20.041	1.00	0.00	C
ATOM	519	OG	SER	57	15.921	33.713	-20.333	1.00	0.00	O
ATOM	520	HG	SER	57	16.597	33.130	-20.006	1.00	0.00	H
ATOM	521	C	SER	57	14.862	35.162	-21.741	1.00	0.00	C
ATOM	522	O	SER	57	13.710	34.755	-21.882	1.00	0.00	O
ATOM	523	N	ASN	58	15.838	34.937	-22.651	1.00	0.00	N
ATOM	524	HN	ASN	58	16.764	35.350	-22.543	1.00	0.00	H
ATOM	525	CA	ASN	58	15.529	34.105	-23.764	1.00	0.00	C
ATOM	526	CB	ASN	58	16.700	33.901	-24.738	1.00	0.00	C
ATOM	527	CG	ASN	58	16.141	33.207	-25.975	1.00	0.00	C
ATOM	528	OD1	ASN	58	14.979	32.803	-26.004	1.00	0.00	O
ATOM	529	ND2	ASN	58	16.990	33.056	-27.027	1.00	0.00	N
ATOM	530	1HD2	ASN	58	16.616	32.592	-27.855	1.00	0.00	H
ATOM	531	2HD2	ASN	58	17.953	33.391	-27.003	1.00	0.00	H
ATOM	532	C	ASN	58	15.112	32.753	-23.263	1.00	0.00	C
ATOM	533	O	ASN	58	13.972	32.367	-23.517	1.00	0.00	O
ATOM	534	N	ILE	59	15.979	32.037	-22.487	1.00	0.00	N
ATOM	535	HN	ILE	59	16.888	32.445	-22.271	1.00	0.00	H
ATOM	536	CA	ILE	59	15.666	30.722	-21.956	1.00	0.00	C
ATOM	537	CB	ILE	59	14.826	30.760	-20.706	1.00	0.00	C
ATOM	538	CG1	ILE	59	14.895	29.420	-19.947	1.00	0.00	C
ATOM	539	CG2	ILE	59	13.403	31.184	-21.104	1.00	0.00	C
ATOM	540	CD1	ILE	59	14.289	29.479	-18.546	1.00	0.00	C
ATOM	541	C	ILE	59	14.974	29.895	-23.016	1.00	0.00	C
ATOM	542	O	ILE	59	15.069	30.192	-24.206	1.00	0.00	O
ATOM	543	N	THR	60	14.398	28.739	-22.633	1.00	0.00	N
ATOM	544	HN	THR	60	14.522	28.425	-21.670	1.00	0.00	H
ATOM	545	CA	THR	60	13.615	27.929	-23.528	1.00	0.00	C
ATOM	546	CB	THR	60	12.332	28.577	-23.972	1.00	0.00	C
ATOM	547	OG1	THR	60	12.587	29.752	-24.726	1.00	0.00	O
ATOM	548	HG1	THR	60	13.093	29.538	-25.501	1.00	0.00	H
ATOM	549	CG2	THR	60	11.514	28.923	-22.718	1.00	0.00	C
ATOM	550	C	THR	60	14.440	27.570	-24.717	1.00	0.00	C
ATOM	551	O	THR	60	13.922	27.402	-25.821	1.00	0.00	O
ATOM	552	N	ASN	61	15.759	27.426	-24.488	1.00	0.00	N
ATOM	553	HN	ASN	61	16.103	27.604	-23.544	1.00	0.00	H
ATOM	554	CA	ASN	61	16.710	27.038	-25.488	1.00	0.00	C
ATOM	555	CB	ASN	61	17.594	28.189	-25.999	1.00	0.00	C
ATOM	556	CG	ASN	61	16.733	29.116	-26.850	1.00	0.00	C
ATOM	557	OD1	ASN	61	15.511	29.155	-26.720	1.00	0.00	O
ATOM	558	ND2	ASN	61	17.387	29.884	-27.760	1.00	0.00	N
ATOM	559	1HD2	ASN	61	18.401	29.852	-27.868	1.00	0.00	H
ATOM	560	2HD2	ASN	61	16.811	30.504	-28.329	1.00	0.00	H
ATOM	561	C	ASN	61	17.607	26.045	-24.816	1.00	0.00	C
ATOM	562	O	ASN	61	17.220	25.462	-23.804	1.00	0.00	O
ATOM	563	N	ARG	62	18.826	25.822	-25.355	1.00	0.00	N
ATOM	564	HN	ARG	62	19.131	26.350	-26.173	1.00	0.00	H
ATOM	565	CA	ARG	62	19.691	24.832	-24.765	1.00	0.00	C
ATOM	566	CB	ARG	62	21.087	24.711	-25.409	1.00	0.00	C
ATOM	567	CG	ARG	62	21.197	23.578	-26.431	1.00	0.00	C
ATOM	568	CD	ARG	62	20.185	23.639	-27.574	1.00	0.00	C
ATOM	569	NE	ARG	62	20.809	24.398	-28.689	1.00	0.00	N
ATOM	570	HE	ARG	62	21.170	25.339	-28.531	1.00	0.00	H
ATOM	571	CZ	ARG	62	20.895	23.827	-29.926	1.00	0.00	C
ATOM	572	NH1	ARG	62	20.461	22.549	-30.122	1.00	0.00	N
ATOM	573	1HH1	ARG	62	20.525	22.122	-31.046	1.00	0.00	H
ATOM	574	2HH1	ARG	62	20.065	22.020	-29.345	1.00	0.00	H
ATOM	575	NH2	ARG	62	21.425	24.535	-30.966	1.00	0.00	N
ATOM	576	1HH2	ARG	62	21.489	24.108	-31.890	1.00	0.00	H
ATOM	577	2HH2	ARG	62	21.750	25.491	-30.819	1.00	0.00	H
ATOM	578	C	ARG	62	19.884	25.098	-23.311	1.00	0.00	C
ATOM	579	O	ARG	62	20.451	26.107	-22.894	1.00	0.00	O
ATOM	580	N	SER	63	19.397	24.133	-22.510	1.00	0.00	N
ATOM	581	HN	SER	63	18.967	23.324	-22.959	1.00	0.00	H
ATOM	582	CA	SER	63	19.433	24.149	-21.080	1.00	0.00	C
ATOM	583	CB	SER	63	18.715	22.926	-20.486	1.00	0.00	C
ATOM	584	OG	SER	63	17.344	22.934	-20.852	1.00	0.00	O
ATOM	585	HG	SER	63	16.900	22.178	-20.485	1.00	0.00	H
ATOM	586	C	SER	63	20.855	24.061	-20.621	1.00	0.00	C
ATOM	587	O	SER	63	21.276	24.775	-19.713	1.00	0.00	O
ATOM	588	N	ASP	64	21.640	23.188	-21.275	1.00	0.00	N
ATOM	589	HN	ASP	64	21.262	22.708	-22.092	1.00	0.00	H



ATOM	590	CA	ASP	64	22.988	22.902	-20.873	1.00	0.00	C
ATOM	591	CB	ASP	64	23.687	21.919	-21.829	1.00	0.00	C
ATOM	592	CG	ASP	64	23.012	20.561	-21.734	1.00	0.00	C
ATOM	593	OD1	ASP	64	22.423	20.259	-20.662	1.00	0.00	O
ATOM	594	OD2	ASP	64	23.084	19.800	-22.737	1.00	0.00	O
ATOM	595	C	ASP	64	23.804	24.151	-20.926	1.00	0.00	C
ATOM	596	O	ASP	64	24.588	24.428	-20.019	1.00	0.00	O
ATOM	597	N	ILE	65	23.630	24.944	-21.994	1.00	0.00	N
ATOM	598	HN	ILE	65	22.919	24.705	-22.685	1.00	0.00	H
ATOM	599	CA	ILE	65	24.425	26.120	-22.181	1.00	0.00	C
ATOM	600	CB	ILE	65	24.171	26.834	-23.484	1.00	0.00	C
ATOM	601	CG1	ILE	65	25.300	27.844	-23.766	1.00	0.00	C
ATOM	602	CG2	ILE	65	22.772	27.468	-23.431	1.00	0.00	C
ATOM	603	CD1	ILE	65	25.311	28.380	-25.199	1.00	0.00	C
ATOM	604	C	ILE	65	24.143	27.059	-21.060	1.00	0.00	C
ATOM	605	O	ILE	65	25.010	27.835	-20.668	1.00	0.00	O
ATOM	606	N	ASN	66	22.892	27.076	-20.572	1.00	0.00	N
ATOM	607	HN	ASN	66	22.191	26.457	-20.979	1.00	0.00	H
ATOM	608	CA	ASN	66	22.517	27.943	-19.493	1.00	0.00	C
ATOM	609	CB	ASN	66	20.994	28.029	-19.318	1.00	0.00	C
ATOM	610	CG	ASN	66	20.466	28.735	-20.562	1.00	0.00	C
ATOM	611	OD1	ASN	66	19.600	28.216	-21.265	1.00	0.00	O
ATOM	612	ND2	ASN	66	21.007	29.949	-20.851	1.00	0.00	N
ATOM	613	1HD2	ASN	66	21.725	30.379	-20.268	1.00	0.00	H
ATOM	614	2HD2	ASN	66	20.654	30.421	-21.683	1.00	0.00	H
ATOM	615	C	ASN	66	23.154	27.501	-18.209	1.00	0.00	C
ATOM	616	O	ASN	66	23.532	28.332	-17.383	1.00	0.00	O
ATOM	617	N	ASP	67	23.265	26.176	-17.991	1.00	0.00	N
ATOM	618	HN	ASP	67	22.911	25.518	-18.685	1.00	0.00	H
ATOM	619	CA	ASP	67	23.877	25.683	-16.791	1.00	0.00	C
ATOM	620	CB	ASP	67	23.879	24.147	-16.726	1.00	0.00	C
ATOM	621	CG	ASP	67	22.459	23.684	-16.431	1.00	0.00	C
ATOM	622	OD1	ASP	67	21.670	23.520	-17.401	1.00	0.00	O
ATOM	623	OD2	ASP	67	22.141	23.503	-15.226	1.00	0.00	O
ATOM	624	C	ASP	67	25.301	26.132	-16.807	1.00	0.00	C
ATOM	625	O	ASP	67	25.847	26.553	-15.789	1.00	0.00	O
ATOM	626	N	THR	68	25.941	26.026	-17.983	1.00	0.00	N
ATOM	627	HN	THR	68	25.431	25.675	-18.794	1.00	0.00	H
ATOM	628	CA	THR	68	27.319	26.392	-18.133	1.00	0.00	C
ATOM	629	CB	THR	68	27.876	26.008	-19.474	1.00	0.00	C
ATOM	630	OG1	THR	68	27.745	24.609	-19.679	1.00	0.00	O
ATOM	631	HG1	THR	68	26.827	24.365	-19.652	1.00	0.00	H
ATOM	632	CG2	THR	68	29.363	26.404	-19.517	1.00	0.00	C
ATOM	633	C	THR	68	27.498	27.872	-17.995	1.00	0.00	C
ATOM	634	O	THR	68	28.358	28.330	-17.246	1.00	0.00	O
ATOM	635	N	GLY	69	26.669	28.667	-18.699	1.00	0.00	N
ATOM	636	HN	GLY	69	25.908	28.255	-19.239	1.00	0.00	H
ATOM	637	CA	GLY	69	26.852	30.090	-18.693	1.00	0.00	C
ATOM	638	C	GLY	69	26.657	30.594	-17.300	1.00	0.00	C
ATOM	639	O	GLY	69	27.384	31.475	-16.841	1.00	0.00	O
ATOM	640	N	PHE	70	25.633	30.060	-16.610	1.00	0.00	N
ATOM	641	HN	PHE	70	25.081	29.322	-17.047	1.00	0.00	H
ATOM	642	CA	PHE	70	25.285	30.485	-15.285	1.00	0.00	C
ATOM	643	CB	PHE	70	23.947	29.930	-14.792	1.00	0.00	C
ATOM	644	CG	PHE	70	22.993	30.919	-15.320	1.00	0.00	C
ATOM	645	CD1	PHE	70	22.817	32.088	-14.619	1.00	0.00	C
ATOM	646	CD2	PHE	70	22.311	30.695	-16.490	1.00	0.00	C
ATOM	647	CE1	PHE	70	21.954	33.043	-15.078	1.00	0.00	C
ATOM	648	CE2	PHE	70	21.444	31.647	-16.957	1.00	0.00	C
ATOM	649	CZ	PHE	70	21.279	32.807	-16.245	1.00	0.00	C
ATOM	650	C	PHE	70	26.295	30.168	-14.247	1.00	0.00	C
ATOM	651	O	PHE	70	26.728	31.063	-13.525	1.00	0.00	O
ATOM	652	N	PHE	71	26.729	28.903	-14.155	1.00	0.00	N
ATOM	653	HN	PHE	71	26.412	28.191	-14.813	1.00	0.00	H
ATOM	654	CA	PHE	71	27.648	28.579	-13.109	1.00	0.00	C
ATOM	655	CB	PHE	71	28.057	27.101	-13.030	1.00	0.00	C
ATOM	656	CG	PHE	71	28.711	26.996	-11.697	1.00	0.00	C
ATOM	657	CD1	PHE	71	30.052	27.252	-11.539	1.00	0.00	C
ATOM	658	CD2	PHE	71	27.961	26.667	-10.593	1.00	0.00	C
ATOM	659	CE1	PHE	71	30.638	27.166	-10.300	1.00	0.00	C
ATOM	660	CE2	PHE	71	28.543	26.579	-9.352	1.00	0.00	C
ATOM	661	CZ	PHE	71	29.885	26.826	-9.203	1.00	0.00	C
ATOM	662	C	PHE	71	28.866	29.380	-13.397	1.00	0.00	C
ATOM	663	O	PHE	71	29.600	29.780	-12.497	1.00	0.00	O

ATOM	664	N	MET	72	29.101	29.634	-14.693	1.00	0.00	N
ATOM	665	HN	MET	72	28.438	29.318	-15.401	1.00	0.00	H
ATOM	666	CA	MET	72	30.276	30.345	-15.087	1.00	0.00	C
ATOM	667	CB	MET	72	30.294	30.513	-16.621	1.00	0.00	C
ATOM	668	CG	MET	72	31.612	30.931	-17.281	1.00	0.00	C
ATOM	669	SD	MET	72	31.963	32.715	-17.317	1.00	0.00	S
ATOM	670	CE	MET	72	32.789	32.792	-15.702	1.00	0.00	C
ATOM	671	C	MET	72	30.301	31.696	-14.424	1.00	0.00	C
ATOM	672	O	MET	72	31.197	31.978	-13.632	1.00	0.00	O
ATOM	673	N	ASN	73	29.273	32.540	-14.640	1.00	0.00	N
ATOM	674	HN	ASN	73	28.486	32.244	-15.217	1.00	0.00	H
ATOM	675	CA	ASN	73	29.281	33.856	-14.061	1.00	0.00	C
ATOM	676	CB	ASN	73	28.253	34.811	-14.687	1.00	0.00	C
ATOM	677	CG	ASN	73	28.843	35.238	-16.025	1.00	0.00	C
ATOM	678	OD1	ASN	73	30.042	35.490	-16.132	1.00	0.00	O
ATOM	679	ND2	ASN	73	27.987	35.317	-17.079	1.00	0.00	N
ATOM	680	1HD2	ASN	73	28.382	35.603	-17.975	1.00	0.00	H
ATOM	681	2HD2	ASN	73	26.993	35.108	-16.990	1.00	0.00	H
ATOM	682	C	ASN	73	29.077	33.758	-12.584	1.00	0.00	C
ATOM	683	O	ASN	73	29.510	34.626	-11.828	1.00	0.00	O
ATOM	684	N	LEU	74	28.377	32.700	-12.138	1.00	0.00	N
ATOM	685	HN	LEU	74	28.028	32.019	-12.813	1.00	0.00	H
ATOM	686	CA	LEU	74	28.105	32.497	-10.742	1.00	0.00	C
ATOM	687	CB	LEU	74	27.452	31.114	-10.554	1.00	0.00	C
ATOM	688	CG	LEU	74	27.072	30.682	-9.123	1.00	0.00	C
ATOM	689	CD1	LEU	74	28.291	30.338	-8.257	1.00	0.00	C
ATOM	690	CD2	LEU	74	26.161	31.719	-8.465	1.00	0.00	C
ATOM	691	C	LEU	74	29.400	32.426	-10.005	1.00	0.00	C
ATOM	692	O	LEU	74	29.728	33.285	-9.191	1.00	0.00	O
ATOM	693	N	GLU	75	30.214	31.414	-10.332	1.00	0.00	N
ATOM	694	HN	GLU	75	29.960	30.776	-11.086	1.00	0.00	H
ATOM	695	CA	GLU	75	31.440	31.231	-9.620	1.00	0.00	C
ATOM	696	CB	GLU	75	32.220	29.991	-10.081	1.00	0.00	C
ATOM	697	CG	GLU	75	32.711	30.100	-11.526	1.00	0.00	C
ATOM	698	CD	GLU	75	33.468	28.829	-11.883	1.00	0.00	C
ATOM	699	OE1	GLU	75	33.364	27.838	-11.114	1.00	0.00	O
ATOM	700	OE2	GLU	75	34.160	28.834	-12.936	1.00	0.00	O
ATOM	701	C	GLU	75	32.306	32.402	-9.926	1.00	0.00	C
ATOM	702	O	GLU	75	33.022	32.905	-9.063	1.00	0.00	O
ATOM	703	N	GLU	76	32.231	32.871	-11.182	1.00	0.00	N
ATOM	704	HN	GLU	76	31.543	32.466	-11.817	1.00	0.00	H
ATOM	705	CA	GLU	76	33.080	33.918	-11.663	1.00	0.00	C
ATOM	706	CB	GLU	76	32.603	34.391	-13.046	1.00	0.00	C
ATOM	707	CG	GLU	76	33.072	35.802	-13.396	1.00	0.00	C
ATOM	708	CD	GLU	76	34.552	35.680	-13.624	1.00	0.00	C
ATOM	709	OE1	GLU	76	34.985	34.508	-13.769	1.00	0.00	O
ATOM	710	OE2	GLU	76	35.266	36.716	-13.651	1.00	0.00	O
ATOM	711	C	GLU	76	32.980	35.128	-10.800	1.00	0.00	C
ATOM	712	O	GLU	76	33.950	35.535	-10.165	1.00	0.00	O
ATOM	713	N	ASP	77	31.781	35.719	-10.720	1.00	0.00	N
ATOM	714	HN	ASP	77	30.970	35.319	-11.192	1.00	0.00	H
ATOM	715	CA	ASP	77	31.663	36.921	-9.959	1.00	0.00	C
ATOM	716	CB	ASP	77	30.379	37.739	-10.214	1.00	0.00	C
ATOM	717	CG	ASP	77	29.157	36.963	-9.761	1.00	0.00	C
ATOM	718	OD1	ASP	77	29.314	35.764	-9.417	1.00	0.00	O
ATOM	719	OD2	ASP	77	28.046	37.551	-9.755	1.00	0.00	O
ATOM	720	C	ASP	77	31.781	36.572	-8.521	1.00	0.00	C
ATOM	721	O	ASP	77	32.021	37.442	-7.692	1.00	0.00	O
ATOM	722	N	MET	78	31.555	35.297	-8.163	1.00	0.00	N
ATOM	723	HN	MET	78	31.303	34.597	-8.860	1.00	0.00	H
ATOM	724	CA	MET	78	31.676	34.943	-6.782	1.00	0.00	C
ATOM	725	CB	MET	78	31.215	33.518	-6.444	1.00	0.00	C
ATOM	726	CG	MET	78	29.690	33.427	-6.407	1.00	0.00	C
ATOM	727	SD	MET	78	29.026	31.939	-5.608	1.00	0.00	S
ATOM	728	CE	MET	78	27.368	32.654	-5.400	1.00	0.00	C
ATOM	729	C	MET	78	33.091	35.138	-6.368	1.00	0.00	C
ATOM	730	O	MET	78	33.354	35.532	-5.234	1.00	0.00	O
ATOM	731	N	THR	79	34.054	34.842	-7.261	1.00	0.00	N
ATOM	732	HN	THR	79	33.832	34.441	-8.172	1.00	0.00	H
ATOM	733	CA	THR	79	35.403	35.116	-6.873	1.00	0.00	C
ATOM	734	CB	THR	79	36.446	34.675	-7.861	1.00	0.00	C
ATOM	735	OG1	THR	79	36.288	35.336	-9.106	1.00	0.00	O
ATOM	736	HG1	THR	79	36.356	36.277	-8.994	1.00	0.00	H
ATOM	737	CG2	THR	79	36.337	33.156	-8.041	1.00	0.00	C

ATOM	738	C	THR	79	35.506	36.597	-6.729	1.00	0.00	C
ATOM	739	O	THR	79	36.068	37.103	-5.762	1.00	0.00	O
ATOM	740	N	ARG	80	34.891	37.333	-7.672	1.00	0.00	N
ATOM	741	HN	ARG	80	34.350	36.860	-8.396	1.00	0.00	H
ATOM	742	CA	ARG	80	34.974	38.762	-7.688	1.00	0.00	C
ATOM	743	CB	ARG	80	34.144	39.391	-8.821	1.00	0.00	C
ATOM	744	CG	ARG	80	34.067	40.917	-8.740	1.00	0.00	C
ATOM	745	CD	ARG	80	33.425	41.568	-9.967	1.00	0.00	C
ATOM	746	NE	ARG	80	34.435	41.530	-11.062	1.00	0.00	N
ATOM	747	HE	ARG	80	35.038	42.337	-11.224	1.00	0.00	H
ATOM	748	CZ	ARG	80	34.558	40.421	-11.849	1.00	0.00	C
ATOM	749	NH1	ARG	80	33.729	39.355	-11.663	1.00	0.00	N
ATOM	750	1HH1	ARG	80	33.821	38.527	-12.251	1.00	0.00	H
ATOM	751	2HH1	ARG	80	33.011	39.386	-10.939	1.00	0.00	H
ATOM	752	NH2	ARG	80	35.518	40.380	-12.818	1.00	0.00	N
ATOM	753	1HH2	ARG	80	35.610	39.552	-13.406	1.00	0.00	H
ATOM	754	2HH2	ARG	80	36.138	41.178	-12.957	1.00	0.00	H
ATOM	755	C	ARG	80	34.445	39.305	-6.398	1.00	0.00	C
ATOM	756	O	ARG	80	35.012	40.242	-5.840	1.00	0.00	O
ATOM	757	N	TYR	81	33.343	38.736	-5.881	1.00	0.00	N
ATOM	758	HN	TYR	81	32.913	37.942	-6.355	1.00	0.00	H
ATOM	759	CA	TYR	81	32.770	39.237	-4.671	1.00	0.00	C
ATOM	760	CB	TYR	81	31.520	38.479	-4.180	1.00	0.00	C
ATOM	761	CG	TYR	81	30.379	38.604	-5.134	1.00	0.00	C
ATOM	762	CD1	TYR	81	29.763	39.815	-5.358	1.00	0.00	C
ATOM	763	CD2	TYR	81	29.891	37.487	-5.775	1.00	0.00	C
ATOM	764	CE1	TYR	81	28.700	39.913	-6.226	1.00	0.00	C
ATOM	765	CE2	TYR	81	28.827	37.578	-6.642	1.00	0.00	C
ATOM	766	CZ	TYR	81	28.232	38.795	-6.871	1.00	0.00	C
ATOM	767	OH	TYR	81	27.138	38.900	-7.757	1.00	0.00	O
ATOM	768	HH	TYR	81	26.727	39.742	-7.915	1.00	0.00	H
ATOM	769	C	TYR	81	33.781	39.060	-3.586	1.00	0.00	C
ATOM	770	O	TYR	81	34.059	39.983	-2.824	1.00	0.00	O
ATOM	771	N	ALA	82	34.401	37.868	-3.523	1.00	0.00	N
ATOM	772	HN	ALA	82	34.241	37.170	-4.249	1.00	0.00	H
ATOM	773	CA	ALA	82	35.286	37.582	-2.434	1.00	0.00	C
ATOM	774	CB	ALA	82	35.914	36.181	-2.536	1.00	0.00	C
ATOM	775	C	ALA	82	36.392	38.581	-2.433	1.00	0.00	C
ATOM	776	O	ALA	82	36.723	39.154	-1.397	1.00	0.00	O
ATOM	777	N	TYR	83	36.963	38.855	-3.612	1.00	0.00	N
ATOM	778	HN	TYR	83	36.616	38.414	-4.464	1.00	0.00	H
ATOM	779	CA	TYR	83	38.057	39.765	-3.672	1.00	0.00	C
ATOM	780	CB	TYR	83	38.707	39.849	-5.065	1.00	0.00	C
ATOM	781	CG	TYR	83	39.248	38.487	-5.348	1.00	0.00	C
ATOM	782	CD1	TYR	83	40.301	38.002	-4.610	1.00	0.00	C
ATOM	783	CD2	TYR	83	38.684	37.675	-6.306	1.00	0.00	C
ATOM	784	CE1	TYR	83	40.809	36.747	-4.843	1.00	0.00	C
ATOM	785	CE2	TYR	83	39.187	36.417	-6.547	1.00	0.00	C
ATOM	786	CZ	TYR	83	40.253	35.953	-5.816	1.00	0.00	C
ATOM	787	OH	TYR	83	40.771	34.663	-6.058	1.00	0.00	O
ATOM	788	HH	TYR	83	41.508	34.342	-5.552	1.00	0.00	H
ATOM	789	C	TYR	83	37.583	41.124	-3.259	1.00	0.00	C
ATOM	790	O	TYR	83	38.339	41.869	-2.643	1.00	0.00	O
ATOM	791	N	TYR	84	36.341	41.516	-3.621	1.00	0.00	N
ATOM	792	HN	TYR	84	35.709	40.877	-4.104	1.00	0.00	H
ATOM	793	CA	TYR	84	35.936	42.861	-3.305	1.00	0.00	C
ATOM	794	CB	TYR	84	34.716	43.409	-4.086	1.00	0.00	C
ATOM	795	CG	TYR	84	33.387	43.123	-3.470	1.00	0.00	C
ATOM	796	CD1	TYR	84	32.885	43.957	-2.496	1.00	0.00	C
ATOM	797	CD2	TYR	84	32.618	42.064	-3.884	1.00	0.00	C
ATOM	798	CE1	TYR	84	31.653	43.725	-1.929	1.00	0.00	C
ATOM	799	CE2	TYR	84	31.384	41.823	-3.324	1.00	0.00	C
ATOM	800	CZ	TYR	84	30.899	42.652	-2.342	1.00	0.00	C
ATOM	801	OH	TYR	84	29.635	42.410	-1.765	1.00	0.00	O
ATOM	802	HH	TYR	84	29.300	42.983	-1.086	1.00	0.00	H
ATOM	803	C	TYR	84	35.729	43.077	-1.833	1.00	0.00	C
ATOM	804	O	TYR	84	36.213	44.066	-1.288	1.00	0.00	O
ATOM	805	N	TYR	85	35.029	42.168	-1.123	1.00	0.00	N
ATOM	806	HN	TYR	85	34.654	41.327	-1.561	1.00	0.00	H
ATOM	807	CA	TYR	85	34.833	42.432	0.273	1.00	0.00	C
ATOM	808	CB	TYR	85	33.961	41.420	1.034	1.00	0.00	C
ATOM	809	CG	TYR	85	34.684	40.137	1.253	1.00	0.00	C
ATOM	810	CD1	TYR	85	35.453	39.966	2.382	1.00	0.00	C
ATOM	811	CD2	TYR	85	34.587	39.105	0.349	1.00	0.00	C

ATOM	812	CE1	TYR	85	36.126	38.790	2.603	1.00	0.00	C
ATOM	813	CE2	TYR	85	35.257	37.924	0.567	1.00	0.00	C
ATOM	814	CZ	TYR	85	36.028	37.766	1.693	1.00	0.00	C
ATOM	815	OH	TYR	85	36.716	36.555	1.915	1.00	0.00	O
ATOM	816	HH	TYR	85	36.648	35.847	1.286	1.00	0.00	H
ATOM	817	C	TYR	85	36.181	42.400	0.892	1.00	0.00	C
ATOM	818	O	TYR	85	36.458	43.125	1.840	1.00	0.00	O
ATOM	819	N	SER	86	37.050	41.510	0.389	1.00	0.00	N
ATOM	820	HN	SER	86	36.773	40.915	-0.391	1.00	0.00	H
ATOM	821	CA	SER	86	38.362	41.393	0.942	1.00	0.00	C
ATOM	822	CB	SER	86	39.231	40.362	0.206	1.00	0.00	C
ATOM	823	OG	SER	86	38.660	39.068	0.326	1.00	0.00	O
ATOM	824	HG	SER	86	39.197	38.430	-0.129	1.00	0.00	H
ATOM	825	C	SER	86	39.077	42.700	0.849	1.00	0.00	C
ATOM	826	O	SER	86	39.275	43.365	1.864	1.00	0.00	O
ATOM	827	N	GLY	87	39.394	43.145	-0.385	1.00	0.00	N
ATOM	828	HN	GLY	87	39.022	42.665	-1.205	1.00	0.00	H
ATOM	829	CA	GLY	87	40.249	44.286	-0.558	1.00	0.00	C
ATOM	830	C	GLY	87	39.679	45.467	0.158	1.00	0.00	C
ATOM	831	O	GLY	87	40.400	46.160	0.872	1.00	0.00	O
ATOM	832	N	ILE	88	38.371	45.737	-0.005	1.00	0.00	N
ATOM	833	HN	ILE	88	37.783	45.152	-0.598	1.00	0.00	H
ATOM	834	CA	ILE	88	37.829	46.874	0.682	1.00	0.00	C
ATOM	835	CB	ILE	88	36.416	47.198	0.280	1.00	0.00	C
ATOM	836	CG1	ILE	88	36.353	47.678	-1.180	1.00	0.00	C
ATOM	837	CG2	ILE	88	35.870	48.241	1.271	1.00	0.00	C
ATOM	838	CD1	ILE	88	36.688	46.607	-2.215	1.00	0.00	C
ATOM	839	C	ILE	88	37.806	46.625	2.158	1.00	0.00	C
ATOM	840	O	ILE	88	38.384	47.375	2.939	1.00	0.00	O
ATOM	841	N	GLY	89	37.213	45.496	2.572	1.00	0.00	N
ATOM	842	HN	GLY	89	36.934	44.796	1.885	1.00	0.00	H
ATOM	843	CA	GLY	89	36.964	45.256	3.960	1.00	0.00	C
ATOM	844	C	GLY	89	38.222	45.256	4.751	1.00	0.00	C
ATOM	845	O	GLY	89	38.319	45.955	5.760	1.00	0.00	O
ATOM	846	N	ALA	90	39.233	44.496	4.303	1.00	0.00	N
ATOM	847	HN	ALA	90	39.132	43.950	3.448	1.00	0.00	H
ATOM	848	CA	ALA	90	40.454	44.465	5.045	1.00	0.00	C
ATOM	849	CB	ALA	90	41.532	43.589	4.386	1.00	0.00	C
ATOM	850	C	ALA	90	40.944	45.865	5.022	1.00	0.00	C
ATOM	851	O	ALA	90	41.414	46.395	6.029	1.00	0.00	O
ATOM	852	N	GLY	91	40.768	46.522	3.863	1.00	0.00	N
ATOM	853	HN	GLY	91	40.263	46.085	3.092	1.00	0.00	H
ATOM	854	CA	GLY	91	41.297	47.837	3.726	1.00	0.00	C
ATOM	855	C	GLY	91	40.726	48.743	4.777	1.00	0.00	C
ATOM	856	O	GLY	91	41.476	49.352	5.533	1.00	0.00	O
ATOM	857	N	VAL	92	39.391	48.810	4.915	1.00	0.00	N
ATOM	858	HN	VAL	92	38.786	48.193	4.373	1.00	0.00	H
ATOM	859	CA	VAL	92	38.822	49.758	5.833	1.00	0.00	C
ATOM	860	CB	VAL	92	37.316	49.742	5.838	1.00	0.00	C
ATOM	861	CG1	VAL	92	36.825	50.113	4.428	1.00	0.00	C
ATOM	862	CG2	VAL	92	36.808	48.377	6.332	1.00	0.00	C
ATOM	863	C	VAL	92	39.300	49.479	7.222	1.00	0.00	C
ATOM	864	O	VAL	92	39.755	50.395	7.901	1.00	0.00	O
ATOM	865	N	LEU	93	39.291	48.204	7.661	1.00	0.00	N
ATOM	866	HN	LEU	93	39.058	47.450	7.015	1.00	0.00	H
ATOM	867	CA	LEU	93	39.606	47.897	9.026	1.00	0.00	C
ATOM	868	CB	LEU	93	39.600	46.379	9.283	1.00	0.00	C
ATOM	869	CG	LEU	93	39.919	45.979	10.733	1.00	0.00	C
ATOM	870	CD1	LEU	93	38.830	46.479	11.698	1.00	0.00	C
ATOM	871	CD2	LEU	93	40.162	44.467	10.850	1.00	0.00	C
ATOM	872	C	LEU	93	40.973	48.425	9.345	1.00	0.00	C
ATOM	873	O	LEU	93	41.161	49.104	10.353	1.00	0.00	O
ATOM	874	N	VAL	94	41.966	48.172	8.471	1.00	0.00	N
ATOM	875	HN	VAL	94	41.781	47.663	7.607	1.00	0.00	H
ATOM	876	CA	VAL	94	43.291	48.633	8.779	1.00	0.00	C
ATOM	877	CB	VAL	94	44.323	48.148	7.799	1.00	0.00	C
ATOM	878	CG1	VAL	94	44.385	46.613	7.886	1.00	0.00	C
ATOM	879	CG2	VAL	94	43.989	48.663	6.389	1.00	0.00	C
ATOM	880	C	VAL	94	43.336	50.140	8.823	1.00	0.00	C
ATOM	881	O	VAL	94	43.828	50.719	9.790	1.00	0.00	O
ATOM	882	N	ALA	95	42.809	50.811	7.778	1.00	0.00	N
ATOM	883	HN	ALA	95	42.337	50.272	7.052	1.00	0.00	H
ATOM	884	CA	ALA	95	42.871	52.241	7.624	1.00	0.00	C
ATOM	885	CB	ALA	95	42.407	52.699	6.229	1.00	0.00	C

ATOM	886	C	ALA	95	42.060	52.990	8.640	1.00	0.00	C
ATOM	887	O	ALA	95	42.463	54.066	9.080	1.00	0.00	O
ATOM	888	N	ALA	96	40.866	52.478	8.997	1.00	0.00	N
ATOM	889	HN	ALA	96	40.563	51.584	8.609	1.00	0.00	H
ATOM	890	CA	ALA	96	40.015	53.178	9.918	1.00	0.00	C
ATOM	891	CB	ALA	96	38.682	52.454	10.176	1.00	0.00	C
ATOM	892	C	ALA	96	40.737	53.269	11.217	1.00	0.00	C
ATOM	893	O	ALA	96	40.895	54.354	11.776	1.00	0.00	O
ATOM	894	N	TYR	97	41.295	52.130	11.661	1.00	0.00	N
ATOM	895	HN	TYR	97	41.233	51.290	11.086	1.00	0.00	H
ATOM	896	CA	TYR	97	41.973	52.066	12.918	1.00	0.00	C
ATOM	897	CB	TYR	97	42.598	50.690	13.204	1.00	0.00	C
ATOM	898	CG	TYR	97	43.458	50.847	14.410	1.00	0.00	C
ATOM	899	CD1	TYR	97	42.923	50.841	15.679	1.00	0.00	C
ATOM	900	CD2	TYR	97	44.816	51.004	14.260	1.00	0.00	C
ATOM	901	CE1	TYR	97	43.738	50.991	16.778	1.00	0.00	C
ATOM	902	CE2	TYR	97	45.633	51.153	15.353	1.00	0.00	C
ATOM	903	CZ	TYR	97	45.094	51.149	16.616	1.00	0.00	C
ATOM	904	OH	TYR	97	45.934	51.305	17.739	1.00	0.00	O
ATOM	905	HH	TYR	97	46.871	51.414	17.627	1.00	0.00	H
ATOM	906	C	TYR	97	43.068	53.074	12.867	1.00	0.00	C
ATOM	907	O	TYR	97	43.395	53.703	13.872	1.00	0.00	O
ATOM	908	N	ILE	98	43.683	53.234	11.683	1.00	0.00	N
ATOM	909	HN	ILE	98	43.378	52.681	10.882	1.00	0.00	H
ATOM	910	CA	ILE	98	44.759	54.167	11.525	1.00	0.00	C
ATOM	911	CB	ILE	98	45.341	54.107	10.144	1.00	0.00	C
ATOM	912	CG1	ILE	98	45.895	52.699	9.872	1.00	0.00	C
ATOM	913	CG2	ILE	98	46.394	55.220	10.015	1.00	0.00	C
ATOM	914	CD1	ILE	98	46.980	52.280	10.864	1.00	0.00	C
ATOM	915	C	ILE	98	44.278	55.578	11.757	1.00	0.00	C
ATOM	916	O	ILE	98	44.868	56.314	12.542	1.00	0.00	O
ATOM	917	N	GLN	99	43.154	55.973	11.129	1.00	0.00	N
ATOM	918	HN	GLN	99	42.654	55.288	10.562	1.00	0.00	H
ATOM	919	CA	GLN	99	42.616	57.308	11.212	1.00	0.00	C
ATOM	920	CB	GLN	99	41.275	57.381	10.455	1.00	0.00	C
ATOM	921	CG	GLN	99	40.479	58.671	10.649	1.00	0.00	C
ATOM	922	CD	GLN	99	39.175	58.562	9.861	1.00	0.00	C
ATOM	923	OE1	GLN	99	38.925	57.580	9.161	1.00	0.00	O
ATOM	924	NE2	GLN	99	38.315	59.607	9.982	1.00	0.00	N
ATOM	925	1HE2	GLN	99	37.444	59.534	9.456	1.00	0.00	H
ATOM	926	2HE2	GLN	99	38.522	60.420	10.562	1.00	0.00	H
ATOM	927	C	GLN	99	42.320	57.655	12.644	1.00	0.00	C
ATOM	928	O	GLN	99	42.458	58.800	13.061	1.00	0.00	O
ATOM	929	N	VAL	100	41.833	56.688	13.431	1.00	0.00	N
ATOM	930	HN	VAL	100	41.682	55.758	13.040	1.00	0.00	H
ATOM	931	CA	VAL	100	41.518	56.926	14.813	1.00	0.00	C
ATOM	932	CB	VAL	100	40.793	55.767	15.431	1.00	0.00	C
ATOM	933	CG1	VAL	100	40.488	56.091	16.905	1.00	0.00	C
ATOM	934	CG2	VAL	100	39.555	55.453	14.571	1.00	0.00	C
ATOM	935	C	VAL	100	42.784	57.134	15.594	1.00	0.00	C
ATOM	936	O	VAL	100	42.824	57.918	16.544	1.00	0.00	O
ATOM	937	N	SER	101	43.855	56.405	15.231	1.00	0.00	N
ATOM	938	HN	SER	101	43.776	55.758	14.447	1.00	0.00	H
ATOM	939	CA	SER	101	45.107	56.519	15.925	1.00	0.00	C
ATOM	940	CB	SER	101	46.184	55.580	15.359	1.00	0.00	C
ATOM	941	OG	SER	101	45.772	54.231	15.515	1.00	0.00	O
ATOM	942	HG	SER	101	46.438	53.651	15.165	1.00	0.00	H
ATOM	943	C	SER	101	45.572	57.921	15.719	1.00	0.00	C
ATOM	944	O	SER	101	46.325	58.475	16.520	1.00	0.00	O
ATOM	945	N	PHE	102	45.131	58.517	14.600	1.00	0.00	N
ATOM	946	HN	PHE	102	44.555	57.977	13.954	1.00	0.00	H
ATOM	947	CA	PHE	102	45.434	59.876	14.276	1.00	0.00	C
ATOM	948	CB	PHE	102	44.732	60.285	12.963	1.00	0.00	C
ATOM	949	CG	PHE	102	44.934	61.702	12.537	1.00	0.00	C
ATOM	950	CD1	PHE	102	44.510	62.748	13.322	1.00	0.00	C
ATOM	951	CD2	PHE	102	45.547	61.988	11.343	1.00	0.00	C
ATOM	952	CE1	PHE	102	44.679	64.053	12.944	1.00	0.00	C
ATOM	953	CE2	PHE	102	45.720	63.295	10.952	1.00	0.00	C
ATOM	954	CZ	PHE	102	45.283	64.326	11.745	1.00	0.00	C
ATOM	955	C	PHE	102	44.839	60.690	15.373	1.00	0.00	C
ATOM	956	O	PHE	102	45.546	61.442	16.044	1.00	0.00	O
ATOM	957	N	TRP	103	43.532	60.471	15.637	1.00	0.00	N
ATOM	958	HN	TRP	103	43.049	59.695	15.183	1.00	0.00	H
ATOM	959	CA	TRP	103	42.816	61.316	16.547	1.00	0.00	C

ATOM	960	CB	TRP	103	41.394	60.787	16.867	1.00	0.00	C
ATOM	961	CG	TRP	103	40.603	61.490	17.970	1.00	0.00	C
ATOM	962	CD2	TRP	103	39.189	61.724	17.897	1.00	0.00	C
ATOM	963	CD1	TRP	103	41.006	62.008	19.172	1.00	0.00	C
ATOM	964	NE1	TRP	103	39.940	62.543	19.844	1.00	0.00	N
ATOM	965	HE1	TRP	103	39.976	62.987	20.762	1.00	0.00	H
ATOM	966	CE2	TRP	103	38.812	62.381	19.072	1.00	0.00	C
ATOM	967	CE3	TRP	103	38.273	61.421	16.931	1.00	0.00	C
ATOM	968	CZ2	TRP	103	37.515	62.740	19.297	1.00	0.00	C
ATOM	969	CZ3	TRP	103	36.965	61.787	17.161	1.00	0.00	C
ATOM	970	CH2	TRP	103	36.594	62.435	18.321	1.00	0.00	C
ATOM	971	C	TRP	103	43.535	61.446	17.849	1.00	0.00	C
ATOM	972	O	TRP	103	44.115	62.492	18.130	1.00	0.00	O
ATOM	973	N	CYS	104	43.576	60.374	18.646	1.00	0.00	N
ATOM	974	HN	CYS	104	43.257	59.464	18.313	1.00	0.00	H
ATOM	975	CA	CYS	104	44.076	60.530	19.974	1.00	0.00	C
ATOM	976	CB	CYS	104	43.709	59.358	20.888	1.00	0.00	C
ATOM	977	SG	CYS	104	41.914	59.187	21.116	1.00	0.00	S
ATOM	978	C	CYS	104	45.537	60.754	20.067	1.00	0.00	C
ATOM	979	O	CYS	104	45.940	61.570	20.887	1.00	0.00	O
ATOM	980	N	LEU	105	46.365	60.067	19.253	1.00	0.00	N
ATOM	981	HN	LEU	105	45.990	59.468	18.518	1.00	0.00	H
ATOM	982	CA	LEU	105	47.782	60.193	19.439	1.00	0.00	C
ATOM	983	CB	LEU	105	48.574	59.386	18.389	1.00	0.00	C
ATOM	984	CG	LEU	105	50.094	59.254	18.637	1.00	0.00	C
ATOM	985	CD1	LEU	105	50.753	58.429	17.520	1.00	0.00	C
ATOM	986	CD2	LEU	105	50.792	60.609	18.837	1.00	0.00	C
ATOM	987	C	LEU	105	48.081	61.645	19.285	1.00	0.00	C
ATOM	988	O	LEU	105	48.694	62.257	20.161	1.00	0.00	O
ATOM	989	N	ALA	106	47.551	62.256	18.215	1.00	0.00	N
ATOM	990	HN	ALA	106	46.961	61.754	17.551	1.00	0.00	H
ATOM	991	CA	ALA	106	47.850	63.638	18.049	1.00	0.00	C
ATOM	992	CB	ALA	106	47.313	64.196	16.723	1.00	0.00	C
ATOM	993	C	ALA	106	47.272	64.490	19.141	1.00	0.00	C
ATOM	994	O	ALA	106	47.998	64.972	20.005	1.00	0.00	O
ATOM	995	N	ALA	107	45.934	64.540	19.249	1.00	0.00	N
ATOM	996	HN	ALA	107	45.365	63.902	18.693	1.00	0.00	H
ATOM	997	CA	ALA	107	45.285	65.473	20.131	1.00	0.00	C
ATOM	998	CB	ALA	107	43.754	65.331	20.134	1.00	0.00	C
ATOM	999	C	ALA	107	45.757	65.228	21.523	1.00	0.00	C
ATOM	1000	O	ALA	107	45.969	66.157	22.300	1.00	0.00	O
ATOM	1001	N	GLY	108	45.977	63.955	21.866	1.00	0.00	N
ATOM	1002	HN	GLY	108	45.896	63.210	21.174	1.00	0.00	H
ATOM	1003	CA	GLY	108	46.326	63.655	23.215	1.00	0.00	C
ATOM	1004	C	GLY	108	47.584	64.374	23.615	1.00	0.00	C
ATOM	1005	O	GLY	108	47.560	65.194	24.532	1.00	0.00	O
ATOM	1006	N	ARG	109	48.698	64.164	22.887	1.00	0.00	N
ATOM	1007	HN	ARG	109	48.655	63.594	22.043	1.00	0.00	H
ATOM	1008	CA	ARG	109	49.949	64.744	23.300	1.00	0.00	C
ATOM	1009	CB	ARG	109	51.132	64.288	22.428	1.00	0.00	C
ATOM	1010	CG	ARG	109	51.391	62.784	22.510	1.00	0.00	C
ATOM	1011	CD	ARG	109	52.814	62.397	22.111	1.00	0.00	C
ATOM	1012	NE	ARG	109	53.719	63.177	23.004	1.00	0.00	N
ATOM	1013	HE	ARG	109	53.699	64.196	22.978	1.00	0.00	H
ATOM	1014	CZ	ARG	109	54.573	62.539	23.856	1.00	0.00	C
ATOM	1015	NH1	ARG	109	54.629	61.176	23.880	1.00	0.00	N
ATOM	1016	1HH1	ARG	109	55.267	60.699	24.517	1.00	0.00	H
ATOM	1017	2HH1	ARG	109	54.035	60.630	23.256	1.00	0.00	H
ATOM	1018	NH2	ARG	109	55.367	63.270	24.691	1.00	0.00	N
ATOM	1019	1HH2	ARG	109	56.005	62.793	25.328	1.00	0.00	H
ATOM	1020	2HH2	ARG	109	55.325	64.289	24.673	1.00	0.00	H
ATOM	1021	C	ARG	109	49.848	66.227	23.214	1.00	0.00	C
ATOM	1022	O	ARG	109	50.362	66.967	24.053	1.00	0.00	O
ATOM	1023	N	GLN	110	49.139	66.687	22.180	1.00	0.00	N
ATOM	1024	HN	GLN	110	48.671	66.018	21.569	1.00	0.00	H
ATOM	1025	CA	GLN	110	49.012	68.080	21.898	1.00	0.00	C
ATOM	1026	CB	GLN	110	48.053	68.276	20.714	1.00	0.00	C
ATOM	1027	CG	GLN	110	48.054	69.670	20.104	1.00	0.00	C
ATOM	1028	CD	GLN	110	49.163	69.692	19.068	1.00	0.00	C
ATOM	1029	OE1	GLN	110	50.340	69.566	19.400	1.00	0.00	O
ATOM	1030	NE2	GLN	110	48.777	69.835	17.772	1.00	0.00	N
ATOM	1031	1HE2	GLN	110	49.522	69.850	17.076	1.00	0.00	H
ATOM	1032	2HE2	GLN	110	47.800	69.940	17.497	1.00	0.00	H
ATOM	1033	C	GLN	110	48.396	68.761	23.086	1.00	0.00	C

ATOM	1034	O	GLN	110	48.834	69.832	23.506	1.00	0.00
ATOM	1035	N	ILE	111	47.338	68.161	23.656	1.00	0.00
ATOM	1036	HN	ILE	111	47.000	67.269	23.294	1.00	0.00
ATOM	1037	CA	ILE	111	46.687	68.775	24.771	1.00	0.00
ATOM	1038	CB	ILE	111	45.308	68.268	25.058	1.00	0.00
ATOM	1039	CG1	ILE	111	44.392	68.696	23.901	1.00	0.00
ATOM	1040	CG2	ILE	111	44.859	68.803	26.431	1.00	0.00
ATOM	1041	CD1	ILE	111	42.953	68.241	24.065	1.00	0.00
ATOM	1042	C	ILE	111	47.503	68.726	26.018	1.00	0.00
ATOM	1043	O	ILE	111	47.512	69.696	26.765	1.00	0.00
ATOM	1044	N	HIS	112	48.224	67.620	26.277	1.00	0.00
ATOM	1045	HN	HIS	112	48.252	66.871	25.585	1.00	0.00
ATOM	1046	CA	HIS	112	48.957	67.466	27.505	1.00	0.00
ATOM	1047	ND1	HIS	112	49.565	65.190	29.780	1.00	0.00
ATOM	1048	HD1	HIS	112	48.556	65.041	29.749	1.00	0.00
ATOM	1049	CG	HIS	112	50.345	65.743	28.786	1.00	0.00
ATOM	1050	CB	HIS	112	49.810	66.186	27.462	1.00	0.00
ATOM	1051	NE2	HIS	112	51.653	65.199	30.543	1.00	0.00
ATOM	1052	HE2	HIS	112	52.467	65.072	31.145	1.00	0.00
ATOM	1053	CD2	HIS	112	51.617	65.741	29.270	1.00	0.00
ATOM	1054	CE1	HIS	112	50.396	64.882	30.805	1.00	0.00
ATOM	1055	C	HIS	112	49.859	68.655	27.633	1.00	0.00
ATOM	1056	O	HIS	112	49.926	69.294	28.683	1.00	0.00
ATOM	1057	N	LYS	113	50.525	69.023	26.526	1.00	0.00
ATOM	1058	HN	LYS	113	50.428	68.482	25.667	1.00	0.00
ATOM	1059	CA	LYS	113	51.371	70.176	26.557	1.00	0.00
ATOM	1060	CB	LYS	113	52.058	70.469	25.212	1.00	0.00
ATOM	1061	CG	LYS	113	53.235	69.556	24.867	1.00	0.00
ATOM	1062	CD	LYS	113	52.850	68.114	24.540	1.00	0.00
ATOM	1063	CE	LYS	113	54.039	67.279	24.055	1.00	0.00
ATOM	1064	NZ	LYS	113	53.613	65.886	23.808	1.00	0.00
ATOM	1065	HZ1	LYS	113	54.405	65.330	23.485	1.00	0.00
ATOM	1066	HZ2	LYS	113	52.824	65.837	23.164	1.00	0.00
ATOM	1067	HZ3	LYS	113	53.165	65.473	24.626	1.00	0.00
ATOM	1068	C	LYS	113	50.532	71.379	26.849	1.00	0.00
ATOM	1069	O	LYS	113	50.885	72.208	27.690	1.00	0.00
ATOM	1070	N	ILE	114	49.370	71.491	26.181	1.00	0.00
ATOM	1071	HN	ILE	114	49.034	70.736	25.583	1.00	0.00
ATOM	1072	CA	ILE	114	48.618	72.700	26.334	1.00	0.00
ATOM	1073	CB	ILE	114	47.390	72.779	25.437	1.00	0.00
ATOM	1074	CG1	ILE	114	47.018	74.248	25.224	1.00	0.00
ATOM	1075	CG2	ILE	114	46.208	71.971	25.997	1.00	0.00
ATOM	1076	CD1	ILE	114	48.023	74.985	24.345	1.00	0.00
ATOM	1077	C	ILE	114	48.216	72.823	27.773	1.00	0.00
ATOM	1078	O	ILE	114	48.461	73.837	28.419	1.00	0.00
ATOM	1079	N	ARG	115	47.717	71.723	28.349	1.00	0.00
ATOM	1080	HN	ARG	115	47.758	70.847	27.829	1.00	0.00
ATOM	1081	CA	ARG	115	47.133	71.706	29.644	1.00	0.00
ATOM	1082	CB	ARG	115	46.751	70.274	30.064	1.00	0.00
ATOM	1083	CG	ARG	115	45.895	70.177	31.329	1.00	0.00
ATOM	1084	CD	ARG	115	44.506	70.797	31.172	1.00	0.00
ATOM	1085	NE	ARG	115	43.924	70.301	29.892	1.00	0.00
ATOM	1086	HE	ARG	115	44.067	70.834	29.034	1.00	0.00
ATOM	1087	CZ	ARG	115	43.202	69.143	29.854	1.00	0.00
ATOM	1088	NH1	ARG	115	43.043	68.396	30.985	1.00	0.00
ATOM	1089	1HH1	ARG	115	43.474	68.696	31.859	1.00	0.00
ATOM	1090	2HH1	ARG	115	42.504	67.531	30.957	1.00	0.00
ATOM	1091	NH2	ARG	115	42.625	68.741	28.684	1.00	0.00
ATOM	1092	1HH2	ARG	115	42.744	69.299	27.839	1.00	0.00
ATOM	1093	2HH2	ARG	115	42.086	67.876	28.656	1.00	0.00
ATOM	1094	C	ARG	115	48.088	72.263	30.656	1.00	0.00
ATOM	1095	O	ARG	115	47.726	73.173	31.399	1.00	0.00
ATOM	1096	N	LYS	116	49.346	71.782	30.681	1.00	0.00
ATOM	1097	HN	LYS	116	49.644	71.110	29.974	1.00	0.00
ATOM	1098	CA	LYS	116	50.275	72.209	31.699	1.00	0.00
ATOM	1099	CB	LYS	116	51.652	71.532	31.588	1.00	0.00
ATOM	1100	CG	LYS	116	51.653	70.027	31.842	1.00	0.00
ATOM	1101	CD	LYS	116	52.980	69.368	31.459	1.00	0.00
ATOM	1102	CE	LYS	116	53.011	67.859	31.696	1.00	0.00
ATOM	1103	NZ	LYS	116	54.314	67.310	31.256	1.00	0.00
ATOM	1104	HZ1	LYS	116	54.335	66.303	31.414	1.00	0.00
ATOM	1105	HZ2	LYS	116	55.100	67.785	31.700	1.00	0.00
ATOM	1106	HZ3	LYS	116	54.525	67.551	30.287	1.00	0.00
ATOM	1107	C	LYS	116	50.544	73.669	31.585	1.00	0.00

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ATOM	1108	O	LYS	116	50.576	74.385	32.588	1.00	0.00	O
ATOM	1109	N	GLN	117	50.740	74.152	30.348	1.00	0.00	N
ATOM	1110	HN	GLN	117	50.630	73.556	29.528	1.00	0.00	H
ATOM	1111	CA	GLN	117	51.107	75.527	30.215	1.00	0.00	C
ATOM	1112	CB	GLN	117	51.327	75.951	28.751	1.00	0.00	C
ATOM	1113	CG	GLN	117	51.640	77.441	28.584	1.00	0.00	C
ATOM	1114	CD	GLN	117	53.000	77.737	29.199	1.00	0.00	C
ATOM	1115	OE1	GLN	117	53.444	78.883	29.224	1.00	0.00	O
ATOM	1116	NE2	GLN	117	53.685	76.679	29.713	1.00	0.00	N
ATOM	1117	1HE2	GLN	117	53.317	75.728	29.692	1.00	0.00	H
ATOM	1118	2HE2	GLN	117	54.597	76.877	30.125	1.00	0.00	H
ATOM	1119	C	GLN	117	50.008	76.364	30.773	1.00	0.00	C
ATOM	1120	O	GLN	117	50.251	77.288	31.548	1.00	0.00	O
ATOM	1121	N	PHE	118	48.756	76.019	30.432	1.00	0.00	N
ATOM	1122	HN	PHE	118	48.588	75.171	29.891	1.00	0.00	H
ATOM	1123	CA	PHE	118	47.659	76.846	30.830	1.00	0.00	C
ATOM	1124	CB	PHE	118	46.344	76.507	30.103	1.00	0.00	C
ATOM	1125	CG	PHE	118	45.383	77.637	30.299	1.00	0.00	C
ATOM	1126	CD1	PHE	118	45.757	78.928	29.996	1.00	0.00	C
ATOM	1127	CD2	PHE	118	44.129	77.425	30.821	1.00	0.00	C
ATOM	1128	CE1	PHE	118	44.892	79.985	30.167	1.00	0.00	C
ATOM	1129	CE2	PHE	118	43.259	78.477	30.993	1.00	0.00	C
ATOM	1130	CZ	PHE	118	43.631	79.758	30.666	1.00	0.00	C
ATOM	1131	C	PHE	118	47.487	76.810	32.320	1.00	0.00	C
ATOM	1132	O	PHE	118	47.168	77.841	32.911	1.00	0.00	O
ATOM	1133	N	PHE	119	47.710	75.646	32.978	1.00	0.00	N
ATOM	1134	HN	PHE	119	48.032	74.819	32.474	1.00	0.00	H
ATOM	1135	CA	PHE	119	47.485	75.595	34.402	1.00	0.00	C
ATOM	1136	CB	PHE	119	47.939	74.317	35.132	1.00	0.00	C
ATOM	1137	CG	PHE	119	47.021	73.160	34.961	1.00	0.00	C
ATOM	1138	CD1	PHE	119	45.666	73.284	35.164	1.00	0.00	C
ATOM	1139	CD2	PHE	119	47.544	71.919	34.690	1.00	0.00	C
ATOM	1140	CE1	PHE	119	44.838	72.193	35.031	1.00	0.00	C
ATOM	1141	CE2	PHE	119	46.724	70.826	34.558	1.00	0.00	C
ATOM	1142	CZ	PHE	119	45.367	70.964	34.722	1.00	0.00	C
ATOM	1143	C	PHE	119	48.301	76.649	35.101	1.00	0.00	C
ATOM	1144	O	PHE	119	47.757	77.487	35.817	1.00	0.00	O
ATOM	1145	N	HIS	120	49.632	76.643	34.893	1.00	0.00	N
ATOM	1146	HN	HIS	120	50.021	75.947	34.256	1.00	0.00	H
ATOM	1147	CA	HIS	120	50.534	77.574	35.528	1.00	0.00	C
ATOM	1148	ND1	HIS	120	53.514	78.210	36.987	1.00	0.00	N
ATOM	1149	HD1	HIS	120	53.271	77.551	37.727	1.00	0.00	H
ATOM	1150	CG	HIS	120	52.998	78.240	35.709	1.00	0.00	C
ATOM	1151	CB	HIS	120	51.998	77.268	35.166	1.00	0.00	C
ATOM	1152	NE2	HIS	120	54.501	79.906	35.940	1.00	0.00	N
ATOM	1153	HE2	HIS	120	55.097	80.709	35.742	1.00	0.00	H
ATOM	1154	CD2	HIS	120	53.609	79.283	35.086	1.00	0.00	C
ATOM	1155	CE1	HIS	120	54.408	79.228	37.070	1.00	0.00	C
ATOM	1156	C	HIS	120	50.210	78.939	35.038	1.00	0.00	C
ATOM	1157	O	HIS	120	50.352	79.928	35.758	1.00	0.00	O
ATOM	1158	N	ALA	121	49.789	79.030	33.767	1.00	0.00	N
ATOM	1159	HN	ALA	121	49.662	78.202	33.185	1.00	0.00	H
ATOM	1160	CA	ALA	121	49.527	80.344	33.270	1.00	0.00	C
ATOM	1161	CB	ALA	121	49.107	80.353	31.791	1.00	0.00	C
ATOM	1162	C	ALA	121	48.416	80.951	34.054	1.00	0.00	C
ATOM	1163	O	ALA	121	48.585	82.047	34.593	1.00	0.00	O
ATOM	1164	N	ILE	122	47.299	80.207	34.228	1.00	0.00	N
ATOM	1165	HN	ILE	122	47.276	79.238	33.912	1.00	0.00	H
ATOM	1166	CA	ILE	122	46.149	80.785	34.858	1.00	0.00	C
ATOM	1167	CB	ILE	122	44.970	79.844	34.929	1.00	0.00	C
ATOM	1168	CG1	ILE	122	43.681	80.646	35.128	1.00	0.00	C
ATOM	1169	CG2	ILE	122	45.204	78.786	36.017	1.00	0.00	C
ATOM	1170	CD1	ILE	122	43.311	81.497	33.914	1.00	0.00	C
ATOM	1171	C	ILE	122	46.561	81.229	36.230	1.00	0.00	C
ATOM	1172	O	ILE	122	46.290	82.357	36.624	1.00	0.00	O
ATOM	1173	N	MET	123	47.339	80.403	36.945	1.00	0.00	N
ATOM	1174	HN	MET	123	47.659	79.539	36.508	1.00	0.00	H
ATOM	1175	CA	MET	123	47.745	80.675	38.299	1.00	0.00	C
ATOM	1176	CB	MET	123	48.488	79.509	38.966	1.00	0.00	C
ATOM	1177	CG	MET	123	47.583	78.299	39.203	1.00	0.00	C
ATOM	1178	SD	MET	123	46.148	78.628	40.276	1.00	0.00	S
ATOM	1179	CE	MET	123	47.102	78.783	41.813	1.00	0.00	C
ATOM	1180	C	MET	123	48.598	81.906	38.406	1.00	0.00	C
ATOM	1181	O	MET	123	48.794	82.412	39.506	1.00	0.00	O



ATOM	1182	N	ARG	124	49.305	82.286	37.331	1.00	0.00	N
ATOM	1183	HN	ARG	124	49.280	81.688	36.505	1.00	0.00	H
ATOM	1184	CA	ARG	124	50.102	83.495	37.274	1.00	0.00	C
ATOM	1185	CB	ARG	124	51.217	83.436	36.223	1.00	0.00	C
ATOM	1186	CG	ARG	124	52.270	82.359	36.469	1.00	0.00	C
ATOM	1187	CD	ARG	124	53.495	82.514	35.566	1.00	0.00	C
ATOM	1188	NE	ARG	124	54.573	83.148	36.375	1.00	0.00	N
ATOM	1189	HE	ARG	124	54.431	83.321	37.370	1.00	0.00	H
ATOM	1190	CZ	ARG	124	55.751	83.497	35.781	1.00	0.00	C
ATOM	1191	NH1	ARG	124	55.929	83.283	34.444	1.00	0.00	N
ATOM	1192	1HH1	ARG	124	56.809	83.544	34.000	1.00	0.00	H
ATOM	1193	2HH1	ARG	124	55.183	82.860	33.891	1.00	0.00	H
ATOM	1194	NH2	ARG	124	56.749	84.063	36.521	1.00	0.00	N
ATOM	1195	1HH2	ARG	124	57.629	84.324	36.077	1.00	0.00	H
ATOM	1196	2HH2	ARG	124	56.616	84.223	37.520	1.00	0.00	H
ATOM	1197	C	ARG	124	49.340	84.741	36.931	1.00	0.00	C
ATOM	1198	O	ARG	124	49.786	85.841	37.255	1.00	0.00	O
ATOM	1199	N	GLN	125	48.199	84.611	36.228	1.00	0.00	N
ATOM	1200	HN	GLN	125	47.809	83.677	36.107	1.00	0.00	H
ATOM	1201	CA	GLN	125	47.499	85.730	35.636	1.00	0.00	C
ATOM	1202	CB	GLN	125	46.176	85.349	34.937	1.00	0.00	C
ATOM	1203	CG	GLN	125	45.444	86.555	34.328	1.00	0.00	C
ATOM	1204	CD	GLN	125	44.173	86.081	33.627	1.00	0.00	C
ATOM	1205	OE1	GLN	125	43.732	84.945	33.797	1.00	0.00	O
ATOM	1206	NE2	GLN	125	43.565	86.982	32.808	1.00	0.00	N
ATOM	1207	1HE2	GLN	125	43.931	87.924	32.667	1.00	0.00	H
ATOM	1208	2HE2	GLN	125	42.716	86.665	32.340	1.00	0.00	H
ATOM	1209	C	GLN	125	47.169	86.713	36.700	1.00	0.00	C
ATOM	1210	O	GLN	125	46.961	87.895	36.422	1.00	0.00	O
ATOM	1211	N	GLU	126	47.025	86.216	37.935	1.00	0.00	N
ATOM	1212	HN	GLU	126	47.095	85.207	38.065	1.00	0.00	H
ATOM	1213	CA	GLU	126	46.780	87.031	39.070	1.00	0.00	C
ATOM	1214	CB	GLU	126	47.928	87.992	39.411	1.00	0.00	C
ATOM	1215	CG	GLU	126	49.318	87.332	39.509	1.00	0.00	C
ATOM	1216	CD	GLU	126	49.370	85.980	40.242	1.00	0.00	C
ATOM	1217	OE1	GLU	126	48.348	85.257	40.389	1.00	0.00	O
ATOM	1218	OE2	GLU	126	50.510	85.637	40.650	1.00	0.00	O
ATOM	1219	C	GLU	126	45.478	87.743	38.924	1.00	0.00	C
ATOM	1220	O	GLU	126	44.458	87.172	38.553	1.00	0.00	O
ATOM	1221	N	ILE	127	45.511	89.050	39.175	1.00	0.00	N
ATOM	1222	HN	ILE	127	46.431	89.478	39.278	1.00	0.00	H
ATOM	1223	CA	ILE	127	44.382	89.906	39.313	1.00	0.00	C
ATOM	1224	CB	ILE	127	44.851	91.307	39.490	1.00	0.00	C
ATOM	1225	CG1	ILE	127	46.024	91.293	40.482	1.00	0.00	C
ATOM	1226	CG2	ILE	127	43.662	92.160	39.937	1.00	0.00	C
ATOM	1227	CD1	ILE	127	45.765	90.398	41.687	1.00	0.00	C
ATOM	1228	C	ILE	127	43.471	89.913	38.124	1.00	0.00	C
ATOM	1229	O	ILE	127	42.297	90.261	38.253	1.00	0.00	O
ATOM	1230	N	GLY	128	44.001	89.658	36.920	1.00	0.00	N
ATOM	1231	HN	GLY	128	44.999	89.464	36.838	1.00	0.00	H
ATOM	1232	CA	GLY	128	43.176	89.656	35.744	1.00	0.00	C
ATOM	1233	C	GLY	128	42.143	88.596	35.880	1.00	0.00	C
ATOM	1234	O	GLY	128	41.032	88.688	35.359	1.00	0.00	O
ATOM	1235	N	TRP	129	42.530	87.539	36.588	1.00	0.00	N
ATOM	1236	HN	TRP	129	43.478	87.559	36.963	1.00	0.00	H
ATOM	1237	CA	TRP	129	41.749	86.380	36.874	1.00	0.00	C
ATOM	1238	CB	TRP	129	42.653	85.361	37.593	1.00	0.00	C
ATOM	1239	CG	TRP	129	42.116	84.325	38.538	1.00	0.00	C
ATOM	1240	CD2	TRP	129	42.965	83.819	39.579	1.00	0.00	C
ATOM	1241	CD1	TRP	129	40.949	83.624	38.613	1.00	0.00	C
ATOM	1242	NE1	TRP	129	41.011	82.730	39.661	1.00	0.00	N
ATOM	1243	HE1	TRP	129	40.265	82.096	39.949	1.00	0.00	H
ATOM	1244	CE2	TRP	129	42.255	82.838	40.255	1.00	0.00	C
ATOM	1245	CE3	TRP	129	44.247	84.149	39.925	1.00	0.00	C
ATOM	1246	CZ2	TRP	129	42.818	82.159	41.301	1.00	0.00	C
ATOM	1247	CZ3	TRP	129	44.810	83.476	40.986	1.00	0.00	C
ATOM	1248	CH2	TRP	129	44.107	82.499	41.661	1.00	0.00	C
ATOM	1249	C	TRP	129	40.530	86.783	37.613	1.00	0.00	C
ATOM	1250	O	TRP	129	39.581	86.009	37.692	1.00	0.00	O
ATOM	1251	N	PHE	130	40.584	87.896	38.353	1.00	0.00	N
ATOM	1252	HN	PHE	130	41.484	88.321	38.577	1.00	0.00	H
ATOM	1253	CA	PHE	130	39.374	88.484	38.826	1.00	0.00	C
ATOM	1254	CB	PHE	130	39.561	89.264	40.137	1.00	0.00	C
ATOM	1255	CG	PHE	130	38.190	89.571	40.633	1.00	0.00	C

ATOM	1256	CD1	PHE	130	37.525	88.671	41.431	1.00	0.00	C
ATOM	1257	CD2	PHE	130	37.570	90.750	40.291	1.00	0.00	C
ATOM	1258	CE1	PHE	130	36.258	88.946	41.888	1.00	0.00	C
ATOM	1259	CE2	PHE	130	36.303	91.031	40.744	1.00	0.00	C
ATOM	1260	CZ	PHE	130	35.644	90.128	41.545	1.00	0.00	C
ATOM	1261	C	PHE	130	38.870	89.467	37.793	1.00	0.00	C
ATOM	1262	O	PHE	130	37.667	89.632	37.600	1.00	0.00	O
ATOM	1263	N	ASP	131	39.781	90.189	37.101	1.00	0.00	N
ATOM	1264	HN	ASP	131	40.779	89.985	37.155	1.00	0.00	H
ATOM	1265	CA	ASP	131	39.273	91.257	36.286	1.00	0.00	C
ATOM	1266	CB	ASP	131	40.267	92.352	35.881	1.00	0.00	C
ATOM	1267	CG	ASP	131	41.416	91.876	35.031	1.00	0.00	C
ATOM	1268	OD1	ASP	131	41.198	91.118	34.052	1.00	0.00	O
ATOM	1269	OD2	ASP	131	42.557	92.293	35.361	1.00	0.00	O
ATOM	1270	C	ASP	131	38.444	90.846	35.142	1.00	0.00	C
ATOM	1271	O	ASP	131	37.411	91.451	34.866	1.00	0.00	O
ATOM	1272	N	VAL	132	38.852	89.810	34.431	1.00	0.00	N
ATOM	1273	HN	VAL	132	39.730	89.328	34.625	1.00	0.00	H
ATOM	1274	CA	VAL	132	37.990	89.415	33.384	1.00	0.00	C
ATOM	1275	CB	VAL	132	38.682	89.385	32.052	1.00	0.00	C
ATOM	1276	CG1	VAL	132	39.854	88.398	32.141	1.00	0.00	C
ATOM	1277	CG2	VAL	132	37.656	89.062	30.954	1.00	0.00	C
ATOM	1278	C	VAL	132	37.665	88.045	33.805	1.00	0.00	C
ATOM	1279	O	VAL	132	38.112	87.610	34.863	1.00	0.00	O
ATOM	1280	N	HIS	133	36.799	87.375	33.048	1.00	0.00	N
ATOM	1281	HN	HIS	133	36.329	87.843	32.273	1.00	0.00	H
ATOM	1282	CA	HIS	133	36.530	86.005	33.322	1.00	0.00	C
ATOM	1283	ND1	HIS	133	39.019	84.710	31.570	1.00	0.00	N
ATOM	1284	HD1	HIS	133	38.242	84.316	31.040	1.00	0.00	H
ATOM	1285	CG	HIS	133	38.975	85.183	32.864	1.00	0.00	C
ATOM	1286	CB	HIS	133	37.755	85.149	33.752	1.00	0.00	C
ATOM	1287	NE2	HIS	133	41.074	85.409	32.057	1.00	0.00	N
ATOM	1288	HE2	HIS	133	42.067	85.630	31.983	1.00	0.00	H
ATOM	1289	CD2	HIS	133	40.239	85.607	33.143	1.00	0.00	C
ATOM	1290	CE1	HIS	133	40.294	84.870	31.138	1.00	0.00	C
ATOM	1291	C	HIS	133	35.497	85.852	34.396	1.00	0.00	C
ATOM	1292	O	HIS	133	35.637	86.351	35.512	1.00	0.00	O
ATOM	1293	N	ASP	134	34.435	85.092	34.069	1.00	0.00	N
ATOM	1294	HN	ASP	134	34.370	84.726	33.119	1.00	0.00	H
ATOM	1295	CA	ASP	134	33.393	84.776	35.000	1.00	0.00	C
ATOM	1296	CB	ASP	134	32.271	83.935	34.366	1.00	0.00	C
ATOM	1297	CG	ASP	134	31.538	84.815	33.361	1.00	0.00	C
ATOM	1298	OD1	ASP	134	31.357	86.027	33.654	1.00	0.00	O
ATOM	1299	OD2	ASP	134	31.147	84.286	32.287	1.00	0.00	O
ATOM	1300	C	ASP	134	34.067	83.949	36.043	1.00	0.00	C
ATOM	1301	O	ASP	134	33.603	83.821	37.175	1.00	0.00	O
ATOM	1302	N	VAL	135	35.174	83.308	35.624	1.00	0.00	N
ATOM	1303	HN	VAL	135	35.428	83.431	34.644	1.00	0.00	H
ATOM	1304	CA	VAL	135	36.036	82.469	36.410	1.00	0.00	C
ATOM	1305	CB	VAL	135	36.314	83.036	37.771	1.00	0.00	C
ATOM	1306	CG1	VAL	135	37.146	82.009	38.554	1.00	0.00	C
ATOM	1307	CG2	VAL	135	37.001	84.405	37.611	1.00	0.00	C
ATOM	1308	C	VAL	135	35.327	81.168	36.586	1.00	0.00	C
ATOM	1309	O	VAL	135	35.962	80.113	36.618	1.00	0.00	O
ATOM	1310	N	GLY	136	33.981	81.213	36.691	1.00	0.00	N
ATOM	1311	HN	GLY	136	33.513	82.115	36.779	1.00	0.00	H
ATOM	1312	CA	GLY	136	33.206	80.016	36.681	1.00	0.00	C
ATOM	1313	C	GLY	136	33.244	79.573	35.267	1.00	0.00	C
ATOM	1314	O	GLY	136	33.512	78.417	34.952	1.00	0.00	O
ATOM	1315	N	GLU	137	33.020	80.549	34.369	1.00	0.00	N
ATOM	1316	HN	GLU	137	32.849	81.496	34.709	1.00	0.00	H
ATOM	1317	CA	GLU	137	33.011	80.316	32.962	1.00	0.00	C
ATOM	1318	CB	GLU	137	32.686	81.589	32.158	1.00	0.00	C
ATOM	1319	CG	GLU	137	32.682	81.397	30.637	1.00	0.00	C
ATOM	1320	CD	GLU	137	34.059	81.779	30.107	1.00	0.00	C
ATOM	1321	OE1	GLU	137	34.927	82.170	30.931	1.00	0.00	O
ATOM	1322	OE2	GLU	137	34.256	81.693	28.864	1.00	0.00	O
ATOM	1323	C	GLU	137	34.388	79.862	32.587	1.00	0.00	C
ATOM	1324	O	GLU	137	34.533	79.060	31.671	1.00	0.00	O
ATOM	1325	N	LEU	138	35.419	80.393	33.284	1.00	0.00	N
ATOM	1326	HN	LEU	138	35.187	81.002	34.069	1.00	0.00	H
ATOM	1327	CA	LEU	138	36.824	80.170	33.011	1.00	0.00	C
ATOM	1328	CB	LEU	138	37.736	81.061	33.893	1.00	0.00	C
ATOM	1329	CG	LEU	138	39.260	81.115	33.568	1.00	0.00	C

ATOM	1330	CD1	LEU	138	39.970	82.061	34.551	1.00	0.00	C
ATOM	1331	CD2	LEU	138	39.972	79.752	33.549	1.00	0.00	C
ATOM	1332	C	LEU	138	37.251	78.755	33.205	1.00	0.00	C
ATOM	1333	O	LEU	138	37.781	78.172	32.273	1.00	0.00	O
ATOM	1334	N	ASN	139	37.038	78.147	34.385	1.00	0.00	N
ATOM	1335	HN	ASN	139	36.521	78.630	35.119	1.00	0.00	H
ATOM	1336	CA	ASN	139	37.538	76.814	34.617	1.00	0.00	C
ATOM	1337	CB	ASN	139	37.111	76.267	35.978	1.00	0.00	C
ATOM	1338	CG	ASN	139	37.346	77.372	36.977	1.00	0.00	C
ATOM	1339	OD1	ASN	139	38.265	78.174	36.833	1.00	0.00	O
ATOM	1340	ND2	ASN	139	36.459	77.435	38.002	1.00	0.00	N
ATOM	1341	1HD2	ASN	139	36.618	78.182	38.678	1.00	0.00	H
ATOM	1342	2HD2	ASN	139	35.696	76.769	38.122	1.00	0.00	H
ATOM	1343	C	ASN	139	36.796	75.984	33.660	1.00	0.00	C
ATOM	1344	O	ASN	139	37.348	75.075	33.041	1.00	0.00	O
ATOM	1345	N	THR	140	35.504	76.329	33.517	1.00	0.00	N
ATOM	1346	HN	THR	140	35.136	77.121	34.045	1.00	0.00	H
ATOM	1347	CA	THR	140	34.641	75.612	32.645	1.00	0.00	C
ATOM	1348	CB	THR	140	33.289	76.246	32.514	1.00	0.00	C
ATOM	1349	OG1	THR	140	32.649	76.292	33.780	1.00	0.00	O
ATOM	1350	HG1	THR	140	33.168	76.805	34.388	1.00	0.00	H
ATOM	1351	CG2	THR	140	32.450	75.417	31.531	1.00	0.00	C
ATOM	1352	C	THR	140	35.325	75.682	31.330	1.00	0.00	C
ATOM	1353	O	THR	140	35.394	74.690	30.613	1.00	0.00	O
ATOM	1354	N	ARG	141	35.892	76.861	31.023	1.00	0.00	N
ATOM	1355	HN	ARG	141	35.783	77.631	31.684	1.00	0.00	H
ATOM	1356	CA	ARG	141	36.642	77.105	29.823	1.00	0.00	C
ATOM	1357	CB	ARG	141	37.024	78.581	29.673	1.00	0.00	C
ATOM	1358	CG	ARG	141	37.674	78.895	28.336	1.00	0.00	C
ATOM	1359	CD	ARG	141	37.898	80.389	28.124	1.00	0.00	C
ATOM	1360	NE	ARG	141	37.934	80.594	26.653	1.00	0.00	N
ATOM	1361	HE	ARG	141	38.827	80.628	26.162	1.00	0.00	H
ATOM	1362	CZ	ARG	141	36.767	80.736	25.962	1.00	0.00	C
ATOM	1363	NH1	ARG	141	35.578	80.777	26.630	1.00	0.00	N
ATOM	1364	1HH1	ARG	141	35.564	80.716	27.648	1.00	0.00	H
ATOM	1365	2HH1	ARG	141	34.705	80.883	26.113	1.00	0.00	H
ATOM	1366	NH2	ARG	141	36.786	80.817	24.600	1.00	0.00	N
ATOM	1367	1HH2	ARG	141	37.675	80.786	24.101	1.00	0.00	H
ATOM	1368	2HH2	ARG	141	35.913	80.923	24.083	1.00	0.00	H
ATOM	1369	C	ARG	141	37.926	76.314	29.815	1.00	0.00	C
ATOM	1370	O	ARG	141	38.366	75.883	28.762	1.00	0.00	O
ATOM	1371	N	LEU	142	38.602	76.109	30.959	1.00	0.00	N
ATOM	1372	HN	LEU	142	38.225	76.455	31.841	1.00	0.00	H
ATOM	1373	CA	LEU	142	39.855	75.404	30.942	1.00	0.00	C
ATOM	1374	CB	LEU	142	40.388	75.234	32.384	1.00	0.00	C
ATOM	1375	CG	LEU	142	41.669	74.391	32.587	1.00	0.00	C
ATOM	1376	CD1	LEU	142	41.415	72.889	32.375	1.00	0.00	C
ATOM	1377	CD2	LEU	142	42.840	74.932	31.756	1.00	0.00	C
ATOM	1378	C	LEU	142	39.596	74.051	30.374	1.00	0.00	C
ATOM	1379	O	LEU	142	40.196	73.683	29.369	1.00	0.00	O
ATOM	1380	N	THR	143	38.663	73.290	30.976	1.00	0.00	N
ATOM	1381	HN	THR	143	38.153	73.655	31.780	1.00	0.00	H
ATOM	1382	CA	THR	143	38.382	71.966	30.492	1.00	0.00	C
ATOM	1383	CB	THR	143	37.549	71.158	31.443	1.00	0.00	C
ATOM	1384	OG1	THR	143	36.287	71.774	31.646	1.00	0.00	O
ATOM	1385	HG1	THR	143	35.760	71.262	32.248	1.00	0.00	H
ATOM	1386	CG2	THR	143	38.305	71.038	32.773	1.00	0.00	C
ATOM	1387	C	THR	143	37.658	72.011	29.192	1.00	0.00	C
ATOM	1388	O	THR	143	38.037	71.318	28.253	1.00	0.00	O
ATOM	1389	N	ASP	144	36.605	72.843	29.098	1.00	0.00	N
ATOM	1390	HN	ASP	144	36.383	73.474	29.868	1.00	0.00	H
ATOM	1391	CA	ASP	144	35.795	72.842	27.916	1.00	0.00	C
ATOM	1392	CB	ASP	144	34.589	73.791	28.001	1.00	0.00	C
ATOM	1393	CG	ASP	144	33.562	73.120	28.898	1.00	0.00	C
ATOM	1394	OD1	ASP	144	33.735	71.904	29.178	1.00	0.00	O
ATOM	1395	OD2	ASP	144	32.593	73.809	29.311	1.00	0.00	O
ATOM	1396	C	ASP	144	36.616	73.262	26.745	1.00	0.00	C
ATOM	1397	O	ASP	144	36.553	72.621	25.702	1.00	0.00	O
ATOM	1398	N	ASP	145	37.399	74.347	26.885	1.00	0.00	N
ATOM	1399	HN	ASP	145	37.434	74.824	27.786	1.00	0.00	H
ATOM	1400	CA	ASP	145	38.184	74.846	25.798	1.00	0.00	C
ATOM	1401	CB	ASP	145	38.860	76.192	26.100	1.00	0.00	C
ATOM	1402	CG	ASP	145	39.178	76.835	24.773	1.00	0.00	C
ATOM	1403	OD1	ASP	145	38.902	76.168	23.744	1.00	0.00	O

ATOM	1404	OD2	ASP	145	39.677	77.994	24.762	1.00	0.00	O
ATOM	1405	C	ASP	145	39.258	73.866	25.470	1.00	0.00	C
ATOM	1406	O	ASP	145	39.404	73.497	24.307	1.00	0.00	O
ATOM	1407	N	VAL	146	39.997	73.371	26.490	1.00	0.00	N
ATOM	1408	HN	VAL	146	39.790	73.639	27.452	1.00	0.00	H
ATOM	1409	CA	VAL	146	41.075	72.466	26.206	1.00	0.00	C
ATOM	1410	CB	VAL	146	41.805	71.923	27.399	1.00	0.00	C
ATOM	1411	CG1	VAL	146	42.525	73.085	28.080	1.00	0.00	C
ATOM	1412	CG2	VAL	146	40.834	71.159	28.309	1.00	0.00	C
ATOM	1413	C	VAL	146	40.484	71.301	25.479	1.00	0.00	C
ATOM	1414	O	VAL	146	41.020	70.867	24.468	1.00	0.00	O
ATOM	1415	N	SER	147	39.323	70.809	25.936	1.00	0.00	N
ATOM	1416	HN	SER	147	38.881	71.258	26.739	1.00	0.00	H
ATOM	1417	CA	SER	147	38.678	69.673	25.337	1.00	0.00	C
ATOM	1418	CB	SER	147	37.430	69.251	26.131	1.00	0.00	C
ATOM	1419	OG	SER	147	36.826	68.124	25.520	1.00	0.00	O
ATOM	1420	HG	SER	147	36.055	67.863	26.010	1.00	0.00	H
ATOM	1421	C	SER	147	38.250	70.011	23.927	1.00	0.00	C
ATOM	1422	O	SER	147	38.458	69.226	23.006	1.00	0.00	O
ATOM	1423	N	LYS	148	37.670	71.208	23.700	1.00	0.00	N
ATOM	1424	HN	LYS	148	37.602	71.873	24.471	1.00	0.00	H
ATOM	1425	CA	LYS	148	37.144	71.584	22.417	1.00	0.00	C
ATOM	1426	CB	LYS	148	36.402	72.931	22.453	1.00	0.00	C
ATOM	1427	CG	LYS	148	35.126	72.822	23.297	1.00	0.00	C
ATOM	1428	CD	LYS	148	34.442	74.144	23.651	1.00	0.00	C
ATOM	1429	CE	LYS	148	33.043	74.284	23.042	1.00	0.00	C
ATOM	1430	NZ	LYS	148	32.305	75.374	23.717	1.00	0.00	N
ATOM	1431	HZ1	LYS	148	31.374	75.467	23.312	1.00	0.00	H
ATOM	1432	HZ2	LYS	148	32.820	76.254	23.698	1.00	0.00	H
ATOM	1433	HZ3	LYS	148	32.271	75.244	24.728	1.00	0.00	H
ATOM	1434	C	LYS	148	38.271	71.616	21.439	1.00	0.00	C
ATOM	1435	O	LYS	148	38.070	71.403	20.244	1.00	0.00	O
ATOM	1436	N	ILE	149	39.485	71.927	21.924	1.00	0.00	N
ATOM	1437	HN	ILE	149	39.590	72.167	22.910	1.00	0.00	H
ATOM	1438	CA	ILE	149	40.626	71.924	21.073	1.00	0.00	C
ATOM	1439	CB	ILE	149	41.851	72.473	21.768	1.00	0.00	C
ATOM	1440	CG1	ILE	149	42.723	73.135	20.728	1.00	0.00	C
ATOM	1441	CG2	ILE	149	42.687	71.342	22.377	1.00	0.00	C
ATOM	1442	CD1	ILE	149	43.254	72.081	19.785	1.00	0.00	C
ATOM	1443	C	ILE	149	40.797	70.487	20.656	1.00	0.00	C
ATOM	1444	O	ILE	149	40.968	70.188	19.476	1.00	0.00	O
ATOM	1445	N	ASN	150	40.651	69.551	21.622	1.00	0.00	N
ATOM	1446	HN	ASN	150	40.403	69.870	22.559	1.00	0.00	H
ATOM	1447	CA	ASN	150	40.822	68.138	21.419	1.00	0.00	C
ATOM	1448	CB	ASN	150	40.499	67.342	22.699	1.00	0.00	C
ATOM	1449	CG	ASN	150	41.024	65.919	22.563	1.00	0.00	C
ATOM	1450	OD1	ASN	150	40.473	65.106	21.825	1.00	0.00	O
ATOM	1451	ND2	ASN	150	42.126	65.607	23.296	1.00	0.00	N
ATOM	1452	1HD2	ASN	150	42.478	64.654	23.205	1.00	0.00	H
ATOM	1453	2HD2	ASN	150	42.583	66.282	23.909	1.00	0.00	H
ATOM	1454	C	ASN	150	39.873	67.692	20.344	1.00	0.00	C
ATOM	1455	O	ASN	150	40.283	67.114	19.339	1.00	0.00	O
ATOM	1456	N	GLU	151	38.579	68.030	20.476	1.00	0.00	N
ATOM	1457	HN	GLU	151	38.284	68.617	21.256	1.00	0.00	H
ATOM	1458	CA	GLU	151	37.611	67.568	19.524	1.00	0.00	C
ATOM	1459	CB	GLU	151	36.179	68.029	19.847	1.00	0.00	C
ATOM	1460	CG	GLU	151	35.624	67.379	21.118	1.00	0.00	C
ATOM	1461	CD	GLU	151	34.146	67.722	21.242	1.00	0.00	C
ATOM	1462	OE1	GLU	151	33.668	68.592	20.465	1.00	0.00	O
ATOM	1463	OE2	GLU	151	33.474	67.109	22.113	1.00	0.00	O
ATOM	1464	C	GLU	151	38.003	68.114	18.180	1.00	0.00	C
ATOM	1465	O	GLU	151	37.807	67.452	17.162	1.00	0.00	O
ATOM	1466	N	GLY	152	38.592	69.328	18.146	1.00	0.00	N
ATOM	1467	HN	GLY	152	38.783	69.811	19.024	1.00	0.00	H
ATOM	1468	CA	GLY	152	38.957	69.958	16.911	1.00	0.00	C
ATOM	1469	C	GLY	152	39.911	69.076	16.158	1.00	0.00	C
ATOM	1470	O	GLY	152	39.786	68.935	14.943	1.00	0.00	O
ATOM	1471	N	ILE	153	40.915	68.491	16.847	1.00	0.00	N
ATOM	1472	HN	ILE	153	40.983	68.626	17.856	1.00	0.00	H
ATOM	1473	CA	ILE	153	41.890	67.678	16.165	1.00	0.00	C
ATOM	1474	CB	ILE	153	43.110	67.404	16.993	1.00	0.00	C
ATOM	1475	CG1	ILE	153	43.928	68.691	17.171	1.00	0.00	C
ATOM	1476	CG2	ILE	153	43.906	66.285	16.301	1.00	0.00	C
ATOM	1477	CD1	ILE	153	43.200	69.783	17.943	1.00	0.00	C

ATOM	1478	C	ILE	153	41.390	66.333	15.649	1.00	0.00	C
ATOM	1479	O	ILE	153	41.533	66.050	14.463	1.00	0.00	O
ATOM	1480	N	GLY	154	40.782	65.463	16.493	1.00	0.00	N
ATOM	1481	HN	GLY	154	40.608	65.756	17.454	1.00	0.00	H
ATOM	1482	CA	GLY	154	40.367	64.129	16.086	1.00	0.00	C
ATOM	1483	C	GLY	154	39.261	64.181	15.062	1.00	0.00	C
ATOM	1484	O	GLY	154	39.197	63.352	14.155	1.00	0.00	O
ATOM	1485	N	ASP	155	38.306	65.115	15.231	1.00	0.00	N
ATOM	1486	HN	ASP	155	38.382	65.756	16.021	1.00	0.00	H
ATOM	1487	CA	ASP	155	37.185	65.244	14.344	1.00	0.00	C
ATOM	1488	CB	ASP	155	36.129	66.251	14.847	1.00	0.00	C
ATOM	1489	CG	ASP	155	35.474	65.719	16.119	1.00	0.00	C
ATOM	1490	OD1	ASP	155	35.877	64.626	16.594	1.00	0.00	O
ATOM	1491	OD2	ASP	155	34.554	66.410	16.635	1.00	0.00	O
ATOM	1492	C	ASP	155	37.666	65.738	13.020	1.00	0.00	C
ATOM	1493	O	ASP	155	37.191	65.277	11.987	1.00	0.00	O
ATOM	1494	N	LYS	156	38.646	66.664	13.013	1.00	0.00	N
ATOM	1495	HN	LYS	156	39.062	66.963	13.895	1.00	0.00	H
ATOM	1496	CA	LYS	156	39.112	67.235	11.782	1.00	0.00	C
ATOM	1497	CB	LYS	156	40.305	68.190	11.918	1.00	0.00	C
ATOM	1498	CG	LYS	156	41.592	67.402	12.086	1.00	0.00	C
ATOM	1499	CD	LYS	156	42.880	68.134	11.738	1.00	0.00	C
ATOM	1500	CE	LYS	156	43.938	67.106	11.366	1.00	0.00	C
ATOM	1501	NZ	LYS	156	43.272	66.046	10.568	1.00	0.00	N
ATOM	1502	HZ1	LYS	156	43.981	65.357	10.319	1.00	0.00	H
ATOM	1503	HZ2	LYS	156	42.773	66.413	9.758	1.00	0.00	H
ATOM	1504	HZ3	LYS	156	42.469	65.635	11.045	1.00	0.00	H
ATOM	1505	C	LYS	156	39.583	66.090	10.948	1.00	0.00	C
ATOM	1506	O	LYS	156	39.493	66.118	9.719	1.00	0.00	O
ATOM	1507	N	ILE	157	40.091	65.037	11.614	1.00	0.00	N
ATOM	1508	HN	ILE	157	40.133	65.045	12.633	1.00	0.00	H
ATOM	1509	CA	ILE	157	40.572	63.906	10.882	1.00	0.00	C
ATOM	1510	CB	ILE	157	40.794	62.681	11.690	1.00	0.00	C
ATOM	1511	CG1	ILE	157	41.601	62.900	12.945	1.00	0.00	C
ATOM	1512	CG2	ILE	157	41.430	61.656	10.753	1.00	0.00	C
ATOM	1513	CD1	ILE	157	41.380	61.705	13.866	1.00	0.00	C
ATOM	1514	C	ILE	157	39.407	63.405	10.112	1.00	0.00	C
ATOM	1515	O	ILE	157	39.459	63.245	8.896	1.00	0.00	O
ATOM	1516	N	GLY	158	38.286	63.226	10.829	1.00	0.00	N
ATOM	1517	HN	GLY	158	38.269	63.534	11.801	1.00	0.00	H
ATOM	1518	CA	GLY	158	37.115	62.619	10.277	1.00	0.00	C
ATOM	1519	C	GLY	158	36.734	63.351	9.029	1.00	0.00	C
ATOM	1520	O	GLY	158	36.435	62.721	8.017	1.00	0.00	O
ATOM	1521	N	MET	159	36.781	64.697	9.047	1.00	0.00	N
ATOM	1522	HN	MET	159	37.111	65.171	9.888	1.00	0.00	H
ATOM	1523	CA	MET	159	36.379	65.483	7.915	1.00	0.00	C
ATOM	1524	CB	MET	159	36.618	66.985	8.162	1.00	0.00	C
ATOM	1525	CG	MET	159	36.175	67.922	7.031	1.00	0.00	C
ATOM	1526	SD	MET	159	37.250	67.974	5.561	1.00	0.00	S
ATOM	1527	CE	MET	159	38.716	68.564	6.456	1.00	0.00	C
ATOM	1528	C	MET	159	37.215	65.147	6.728	1.00	0.00	C
ATOM	1529	O	MET	159	36.684	64.801	5.677	1.00	0.00	O
ATOM	1530	N	PHE	160	38.549	65.147	6.913	1.00	0.00	N
ATOM	1531	HN	PHE	160	38.902	65.221	7.867	1.00	0.00	H
ATOM	1532	CA	PHE	160	39.505	65.049	5.844	1.00	0.00	C
ATOM	1533	CB	PHE	160	40.925	64.877	6.413	1.00	0.00	C
ATOM	1534	CG	PHE	160	41.896	65.528	5.491	1.00	0.00	C
ATOM	1535	CD1	PHE	160	42.325	64.917	4.338	1.00	0.00	C
ATOM	1536	CD2	PHE	160	42.388	66.773	5.811	1.00	0.00	C
ATOM	1537	CE1	PHE	160	43.224	65.549	3.511	1.00	0.00	C
ATOM	1538	CE2	PHE	160	43.286	67.408	4.989	1.00	0.00	C
ATOM	1539	CZ	PHE	160	43.706	66.795	3.835	1.00	0.00	C
ATOM	1540	C	PHE	160	39.124	63.819	5.095	1.00	0.00	C
ATOM	1541	O	PHE	160	38.928	63.843	3.879	1.00	0.00	O
ATOM	1542	N	PHE	161	38.867	62.749	5.862	1.00	0.00	N
ATOM	1543	HN	PHE	161	38.983	62.827	6.872	1.00	0.00	H
ATOM	1544	CA	PHE	161	38.437	61.505	5.311	1.00	0.00	C
ATOM	1545	CB	PHE	161	38.169	60.515	6.465	1.00	0.00	C
ATOM	1546	CG	PHE	161	37.005	59.641	6.169	1.00	0.00	C
ATOM	1547	CD1	PHE	161	36.975	58.809	5.076	1.00	0.00	C
ATOM	1548	CD2	PHE	161	35.942	59.638	7.043	1.00	0.00	C
ATOM	1549	CE1	PHE	161	35.877	58.011	4.849	1.00	0.00	C
ATOM	1550	CE2	PHE	161	34.845	58.841	6.822	1.00	0.00	C
ATOM	1551	CZ	PHE	161	34.811	58.027	5.717	1.00	0.00	C

ATOM	1552	C	PHE	161	37.210	61.708	4.452	1.00	0.00	C
ATOM	1553	O	PHE	161	37.226	61.412	3.260	1.00	0.00	O
ATOM	1554	N	GLN	162	36.132	62.299	4.989	1.00	0.00	N
ATOM	1555	HN	GLN	162	36.176	62.656	5.944	1.00	0.00	H
ATOM	1556	CA	GLN	162	34.911	62.436	4.233	1.00	0.00	C
ATOM	1557	CB	GLN	162	33.775	63.041	5.078	1.00	0.00	C
ATOM	1558	CG	GLN	162	32.432	63.123	4.351	1.00	0.00	C
ATOM	1559	CD	GLN	162	31.838	61.723	4.288	1.00	0.00	C
ATOM	1560	OE1	GLN	162	32.525	60.755	3.963	1.00	0.00	O
ATOM	1561	NE2	GLN	162	30.523	61.607	4.614	1.00	0.00	N
ATOM	1562	1HE2	GLN	162	29.954	62.409	4.883	1.00	0.00	H
ATOM	1563	2HE2	GLN	162	30.125	60.669	4.572	1.00	0.00	H
ATOM	1564	C	GLN	162	35.127	63.330	3.051	1.00	0.00	C
ATOM	1565	O	GLN	162	34.580	63.087	1.975	1.00	0.00	O
ATOM	1566	N	SER	163	35.947	64.386	3.210	1.00	0.00	N
ATOM	1567	HN	SER	163	36.435	64.511	4.097	1.00	0.00	H
ATOM	1568	CA	SER	163	36.148	65.339	2.157	1.00	0.00	C
ATOM	1569	CB	SER	163	37.217	66.389	2.505	1.00	0.00	C
ATOM	1570	OG	SER	163	37.373	67.308	1.433	1.00	0.00	O
ATOM	1571	HG	SER	163	38.033	67.956	1.648	1.00	0.00	H
ATOM	1572	C	SER	163	36.621	64.596	0.948	1.00	0.00	C
ATOM	1573	O	SER	163	36.273	64.939	-0.179	1.00	0.00	O
ATOM	1574	N	MET	164	37.479	63.584	1.157	1.00	0.00	N
ATOM	1575	HN	MET	164	37.766	63.383	2.115	1.00	0.00	H
ATOM	1576	CA	MET	164	38.014	62.769	0.097	1.00	0.00	C
ATOM	1577	CB	MET	164	39.259	61.989	0.547	1.00	0.00	C
ATOM	1578	CG	MET	164	40.435	62.919	0.852	1.00	0.00	C
ATOM	1579	SD	MET	164	40.945	63.937	-0.566	1.00	0.00	S
ATOM	1580	CE	MET	164	42.415	64.643	0.229	1.00	0.00	C
ATOM	1581	C	MET	164	37.027	61.796	-0.475	1.00	0.00	C
ATOM	1582	O	MET	164	37.052	61.519	-1.673	1.00	0.00	O
ATOM	1583	N	ALA	165	36.157	61.203	0.362	1.00	0.00	N
ATOM	1584	HN	ALA	165	36.144	61.434	1.355	1.00	0.00	H
ATOM	1585	CA	ALA	165	35.249	60.238	-0.182	1.00	0.00	C
ATOM	1586	CB	ALA	165	34.334	59.601	0.878	1.00	0.00	C
ATOM	1587	C	ALA	165	34.390	60.968	-1.156	1.00	0.00	C
ATOM	1588	O	ALA	165	34.123	60.478	-2.247	1.00	0.00	O
ATOM	1589	N	THR	166	33.922	62.172	-0.788	1.00	0.00	N
ATOM	1590	HN	THR	166	34.160	62.557	0.126	1.00	0.00	H
ATOM	1591	CA	THR	166	33.086	62.913	-1.686	1.00	0.00	C
ATOM	1592	CB	THR	166	32.456	64.118	-1.047	1.00	0.00	C
ATOM	1593	OG1	THR	166	31.633	64.793	-1.986	1.00	0.00	O
ATOM	1594	HG1	THR	166	31.235	65.555	-1.582	1.00	0.00	H
ATOM	1595	CG2	THR	166	33.561	65.055	-0.537	1.00	0.00	C
ATOM	1596	C	THR	166	33.868	63.375	-2.878	1.00	0.00	C
ATOM	1597	O	THR	166	33.432	63.216	-4.018	1.00	0.00	O
ATOM	1598	N	PHE	167	35.068	63.942	-2.659	1.00	0.00	N
ATOM	1599	HN	PHE	167	35.463	63.981	-1.719	1.00	0.00	H
ATOM	1600	CA	PHE	167	35.780	64.490	-3.777	1.00	0.00	C
ATOM	1601	CB	PHE	167	37.124	65.125	-3.379	1.00	0.00	C
ATOM	1602	CG	PHE	167	37.741	65.686	-4.618	1.00	0.00	C
ATOM	1603	CD1	PHE	167	38.565	64.918	-5.408	1.00	0.00	C
ATOM	1604	CD2	PHE	167	37.483	66.983	-4.993	1.00	0.00	C
ATOM	1605	CE1	PHE	167	39.128	65.438	-6.549	1.00	0.00	C
ATOM	1606	CE2	PHE	167	38.043	67.510	-6.132	1.00	0.00	C
ATOM	1607	CZ	PHE	167	38.867	66.737	-6.914	1.00	0.00	C
ATOM	1608	C	PHE	167	36.071	63.403	-4.764	1.00	0.00	C
ATOM	1609	O	PHE	167	35.675	63.490	-5.925	1.00	0.00	O
ATOM	1610	N	PHE	168	36.730	62.322	-4.309	1.00	0.00	N
ATOM	1611	HN	PHE	168	36.968	62.274	-3.318	1.00	0.00	H
ATOM	1612	CA	PHE	168	37.111	61.235	-5.162	1.00	0.00	C
ATOM	1613	CB	PHE	168	37.962	60.150	-4.479	1.00	0.00	C
ATOM	1614	CG	PHE	168	39.283	60.726	-4.111	1.00	0.00	C
ATOM	1615	CD1	PHE	168	40.232	61.004	-5.069	1.00	0.00	C
ATOM	1616	CD2	PHE	168	39.576	60.966	-2.790	1.00	0.00	C
ATOM	1617	CE1	PHE	168	41.450	61.530	-4.708	1.00	0.00	C
ATOM	1618	CE2	PHE	168	40.791	61.491	-2.424	1.00	0.00	C
ATOM	1619	CZ	PHE	168	41.731	61.777	-3.384	1.00	0.00	C
ATOM	1620	C	PHE	168	35.893	60.532	-5.664	1.00	0.00	C
ATOM	1621	O	PHE	168	35.897	60.094	-6.807	1.00	0.00	O
ATOM	1622	N	THR	169	34.839	60.348	-4.838	1.00	0.00	N
ATOM	1623	HN	THR	169	34.859	60.698	-3.880	1.00	0.00	H
ATOM	1624	CA	THR	169	33.682	59.643	-5.343	1.00	0.00	C
ATOM	1625	CB	THR	169	32.442	59.659	-4.428	1.00	0.00	C

ATOM	1626	OG1	THR	169	32.201	60.954	-3.899	1.00	0.00	O
ATOM	1627	HG1	THR	169	32.202	61.593	-4.602	1.00	0.00	H
ATOM	1628	CG2	THR	169	32.440	58.629	-3.295	1.00	0.00	C
ATOM	1629	C	THR	169	33.182	60.324	-6.581	1.00	0.00	C
ATOM	1630	O	THR	169	33.353	59.834	-7.699	1.00	0.00	O
ATOM	1631	N	GLY	170	32.702	61.562	-6.407	1.00	0.00	N
ATOM	1632	HN	GLY	170	32.823	62.003	-5.495	1.00	0.00	H
ATOM	1633	CA	GLY	170	32.033	62.294	-7.426	1.00	0.00	C
ATOM	1634	C	GLY	170	32.971	62.410	-8.563	1.00	0.00	C
ATOM	1635	O	GLY	170	32.548	62.628	-9.694	1.00	0.00	O
ATOM	1636	N	PHE	171	34.276	62.449	-8.265	1.00	0.00	N
ATOM	1637	HN	PHE	171	34.579	62.428	-7.291	1.00	0.00	H
ATOM	1638	CA	PHE	171	35.243	62.520	-9.314	1.00	0.00	C
ATOM	1639	CB	PHE	171	36.618	62.901	-8.738	1.00	0.00	C
ATOM	1640	CG	PHE	171	37.567	63.165	-9.849	1.00	0.00	C
ATOM	1641	CD1	PHE	171	37.496	64.350	-10.542	1.00	0.00	C
ATOM	1642	CD2	PHE	171	38.540	62.252	-10.184	1.00	0.00	C
ATOM	1643	CE1	PHE	171	38.369	64.617	-11.569	1.00	0.00	C
ATOM	1644	CE2	PHE	171	39.418	62.515	-11.210	1.00	0.00	C
ATOM	1645	CZ	PHE	171	39.332	63.698	-11.904	1.00	0.00	C
ATOM	1646	C	PHE	171	35.403	61.227	-10.054	1.00	0.00	C
ATOM	1647	O	PHE	171	34.905	61.079	-11.161	1.00	0.00	O
ATOM	1648	N	ILE	172	35.944	60.195	-9.375	1.00	0.00	N
ATOM	1649	HN	ILE	172	36.053	60.286	-8.365	1.00	0.00	H
ATOM	1650	CA	ILE	172	36.374	58.976	-9.996	1.00	0.00	C
ATOM	1651	CB	ILE	172	36.776	57.942	-8.994	1.00	0.00	C
ATOM	1652	CG1	ILE	172	37.973	58.442	-8.173	1.00	0.00	C
ATOM	1653	CG2	ILE	172	37.032	56.621	-9.742	1.00	0.00	C
ATOM	1654	CD1	ILE	172	38.217	57.626	-6.908	1.00	0.00	C
ATOM	1655	C	ILE	172	35.219	58.410	-10.743	1.00	0.00	C
ATOM	1656	O	ILE	172	35.309	58.179	-11.947	1.00	0.00	O
ATOM	1657	N	VAL	173	34.085	58.206	-10.061	1.00	0.00	N
ATOM	1658	HN	VAL	173	34.034	58.400	-9.061	1.00	0.00	H
ATOM	1659	CA	VAL	173	32.946	57.709	-10.770	1.00	0.00	C
ATOM	1660	CB	VAL	173	31.863	57.190	-9.859	1.00	0.00	C
ATOM	1661	CG1	VAL	173	32.424	55.985	-9.083	1.00	0.00	C
ATOM	1662	CG2	VAL	173	31.354	58.324	-8.949	1.00	0.00	C
ATOM	1663	C	VAL	173	32.353	58.789	-11.621	1.00	0.00	C
ATOM	1664	O	VAL	173	32.073	58.596	-12.802	1.00	0.00	O
ATOM	1665	N	GLY	174	32.235	59.995	-11.045	1.00	0.00	N
ATOM	1666	HN	GLY	174	32.688	60.151	-10.145	1.00	0.00	H
ATOM	1667	CA	GLY	174	31.502	61.072	-11.637	1.00	0.00	C
ATOM	1668	C	GLY	174	32.034	61.438	-12.974	1.00	0.00	C
ATOM	1669	O	GLY	174	31.316	62.057	-13.745	1.00	0.00	O
ATOM	1670	N	PHE	175	33.339	61.341	-13.218	1.00	0.00	N
ATOM	1671	HN	PHE	175	33.985	61.155	-12.450	1.00	0.00	H
ATOM	1672	CA	PHE	175	33.844	61.495	-14.548	1.00	0.00	C
ATOM	1673	CB	PHE	175	35.144	62.314	-14.523	1.00	0.00	C
ATOM	1674	CG	PHE	175	35.685	62.364	-15.901	1.00	0.00	C
ATOM	1675	CD1	PHE	175	35.087	63.140	-16.866	1.00	0.00	C
ATOM	1676	CD2	PHE	175	36.811	61.641	-16.215	1.00	0.00	C
ATOM	1677	CE1	PHE	175	35.603	63.175	-18.140	1.00	0.00	C
ATOM	1678	CE2	PHE	175	37.330	61.675	-17.485	1.00	0.00	C
ATOM	1679	CZ	PHE	175	36.724	62.442	-18.449	1.00	0.00	C
ATOM	1680	C	PHE	175	34.096	60.198	-15.283	1.00	0.00	C
ATOM	1681	O	PHE	175	33.598	59.958	-16.381	1.00	0.00	O
ATOM	1682	N	THR	176	34.826	59.275	-14.622	1.00	0.00	N
ATOM	1683	HN	THR	176	34.974	59.389	-13.619	1.00	0.00	H
ATOM	1684	CA	THR	176	35.402	58.135	-15.286	1.00	0.00	C
ATOM	1685	CB	THR	176	36.187	57.249	-14.369	1.00	0.00	C
ATOM	1686	OG1	THR	176	37.225	57.985	-13.739	1.00	0.00	O
ATOM	1687	HG1	THR	176	37.723	57.423	-13.157	1.00	0.00	H
ATOM	1688	CG2	THR	176	36.785	56.103	-15.204	1.00	0.00	C
ATOM	1689	C	THR	176	34.368	57.273	-15.908	1.00	0.00	C
ATOM	1690	O	THR	176	34.513	56.859	-17.057	1.00	0.00	O
ATOM	1691	N	ARG	177	33.282	56.979	-15.184	1.00	0.00	N
ATOM	1692	HN	ARG	177	33.101	57.400	-14.273	1.00	0.00	H
ATOM	1693	CA	ARG	177	32.397	56.035	-15.779	1.00	0.00	C
ATOM	1694	CB	ARG	177	31.810	55.068	-14.740	1.00	0.00	C
ATOM	1695	CG	ARG	177	31.263	53.762	-15.318	1.00	0.00	C
ATOM	1696	CD	ARG	177	32.347	52.860	-15.912	1.00	0.00	C
ATOM	1697	NE	ARG	177	32.633	53.344	-17.292	1.00	0.00	N
ATOM	1698	HE	ARG	177	31.967	53.962	-17.756	1.00	0.00	H
ATOM	1699	CZ	ARG	177	33.773	52.972	-17.944	1.00	0.00	C

ATOM	1700	NH1	ARG	177	34.703	52.192	-17.318	1.00	0.00	N
ATOM	1701	1HH1	ARG	177	35.555	51.914	-17.805	1.00	0.00	H
ATOM	1702	2HH1	ARG	177	34.546	51.882	-16.359	1.00	0.00	H
ATOM	1703	NH2	ARG	177	33.983	53.387	-19.227	1.00	0.00	N
ATOM	1704	1HH2	ARG	177	34.835	53.109	-19.714	1.00	0.00	H
ATOM	1705	2HH2	ARG	177	33.288	53.970	-19.695	1.00	0.00	H
ATOM	1706	C	ARG	177	31.281	56.754	-16.445	1.00	0.00	C
ATOM	1707	O	ARG	177	30.400	57.285	-15.778	1.00	0.00	O
ATOM	1708	N	GLY	178	31.245	56.713	-17.792	1.00	0.00	N
ATOM	1709	HN	GLY	178	31.958	56.192	-18.303	1.00	0.00	H
ATOM	1710	CA	GLY	178	30.211	57.397	-18.510	1.00	0.00	C
ATOM	1711	C	GLY	178	30.772	58.194	-19.644	1.00	0.00	C
ATOM	1712	O	GLY	178	30.217	58.106	-20.738	1.00	0.00	O
ATOM	1713	N	TRP	179	31.896	58.924	-19.447	1.00	0.00	N
ATOM	1714	HN	TRP	179	32.357	58.891	-18.538	1.00	0.00	H
ATOM	1715	CA	TRP	179	32.457	59.747	-20.492	1.00	0.00	C
ATOM	1716	CB	TRP	179	33.261	58.925	-21.510	1.00	0.00	C
ATOM	1717	CG	TRP	179	34.530	58.410	-20.879	1.00	0.00	C
ATOM	1718	CD2	TRP	179	35.075	57.090	-21.060	1.00	0.00	C
ATOM	1719	CD1	TRP	179	35.359	59.045	-20.001	1.00	0.00	C
ATOM	1720	NE1	TRP	179	36.384	58.210	-19.626	1.00	0.00	N
ATOM	1721	HE1	TRP	179	37.141	58.444	-18.983	1.00	0.00	H
ATOM	1722	CE2	TRP	179	36.214	57.002	-20.268	1.00	0.00	C
ATOM	1723	CE3	TRP	179	34.642	56.035	-21.814	1.00	0.00	C
ATOM	1724	CZ2	TRP	179	36.956	55.854	-20.220	1.00	0.00	C
ATOM	1725	CZ3	TRP	179	35.394	54.883	-21.769	1.00	0.00	C
ATOM	1726	CH2	TRP	179	36.529	54.794	-20.987	1.00	0.00	C
ATOM	1727	C	TRP	179	31.346	60.522	-21.138	1.00	0.00	C
ATOM	1728	O	TRP	179	30.924	60.242	-22.259	1.00	0.00	O
ATOM	1729	N	LYS	180	30.834	61.511	-20.387	1.00	0.00	N
ATOM	1730	HN	LYS	180	31.294	61.690	-19.494	1.00	0.00	H
ATOM	1731	CA	LYS	180	29.709	62.342	-20.707	1.00	0.00	C
ATOM	1732	CB	LYS	180	29.599	62.699	-22.199	1.00	0.00	C
ATOM	1733	CG	LYS	180	30.646	63.710	-22.664	1.00	0.00	C
ATOM	1734	CD	LYS	180	32.066	63.149	-22.677	1.00	0.00	C
ATOM	1735	CE	LYS	180	32.299	62.138	-23.798	1.00	0.00	C
ATOM	1736	NZ	LYS	180	33.715	61.707	-23.806	1.00	0.00	N
ATOM	1737	HZ1	LYS	180	33.871	61.032	-24.555	1.00	0.00	H
ATOM	1738	HZ2	LYS	180	34.010	61.346	-22.899	1.00	0.00	H
ATOM	1739	HZ3	LYS	180	34.355	62.499	-23.867	1.00	0.00	H
ATOM	1740	C	LYS	180	28.428	61.661	-20.308	1.00	0.00	C
ATOM	1741	O	LYS	180	27.391	62.319	-20.233	1.00	0.00	O
ATOM	1742	N	LEU	181	28.434	60.330	-20.077	1.00	0.00	N
ATOM	1743	HN	LEU	181	29.264	59.791	-20.325	1.00	0.00	H
ATOM	1744	CA	LEU	181	27.307	59.644	-19.491	1.00	0.00	C
ATOM	1745	CB	LEU	181	27.382	58.118	-19.690	1.00	0.00	C
ATOM	1746	CG	LEU	181	26.241	57.313	-19.031	1.00	0.00	C
ATOM	1747	CD1	LEU	181	26.405	57.194	-17.508	1.00	0.00	C
ATOM	1748	CD2	LEU	181	24.874	57.890	-19.414	1.00	0.00	C
ATOM	1749	C	LEU	181	27.383	59.914	-18.038	1.00	0.00	C
ATOM	1750	O	LEU	181	26.402	60.171	-17.343	1.00	0.00	O
ATOM	1751	N	THR	182	28.629	59.844	-17.554	1.00	0.00	N
ATOM	1752	HN	THR	182	29.384	59.579	-18.186	1.00	0.00	H
ATOM	1753	CA	THR	182	28.945	60.123	-16.197	1.00	0.00	C
ATOM	1754	CB	THR	182	30.389	59.971	-15.899	1.00	0.00	C
ATOM	1755	OG1	THR	182	30.518	59.732	-14.512	1.00	0.00	O
ATOM	1756	HG1	THR	182	31.443	59.635	-14.321	1.00	0.00	H
ATOM	1757	CG2	THR	182	31.178	61.214	-16.340	1.00	0.00	C
ATOM	1758	C	THR	182	28.661	61.570	-16.089	1.00	0.00	C
ATOM	1759	O	THR	182	28.531	62.117	-15.002	1.00	0.00	O
ATOM	1760	N	LEU	183	28.737	62.245	-17.246	1.00	0.00	N
ATOM	1761	HN	LEU	183	29.049	61.747	-18.080	1.00	0.00	H
ATOM	1762	CA	LEU	183	28.403	63.621	-17.365	1.00	0.00	C
ATOM	1763	CB	LEU	183	28.896	64.291	-18.653	1.00	0.00	C
ATOM	1764	CG	LEU	183	28.513	65.780	-18.705	1.00	0.00	C
ATOM	1765	CD1	LEU	183	29.157	66.553	-17.539	1.00	0.00	C
ATOM	1766	CD2	LEU	183	28.822	66.399	-20.076	1.00	0.00	C
ATOM	1767	C	LEU	183	26.928	63.738	-17.334	1.00	0.00	C
ATOM	1768	O	LEU	183	26.411	64.776	-16.943	1.00	0.00	O
ATOM	1769	N	VAL	184	26.195	62.720	-17.816	1.00	0.00	N
ATOM	1770	HN	VAL	184	26.643	61.918	-18.259	1.00	0.00	H
ATOM	1771	CA	VAL	184	24.774	62.789	-17.692	1.00	0.00	C
ATOM	1772	CB	VAL	184	24.069	61.542	-18.140	1.00	0.00	C
ATOM	1773	CG1	VAL	184	22.566	61.697	-17.845	1.00	0.00	C



ATOM	1774	CG2	VAL	184	24.393	61.292	-19.623	1.00	0.00	C
ATOM	1775	C	VAL	184	24.573	62.894	-16.224	1.00	0.00	C
ATOM	1776	O	VAL	184	23.742	63.673	-15.759	1.00	0.00	O
ATOM	1777	N	ILE	185	25.368	62.126	-15.446	1.00	0.00	N
ATOM	1778	HN	ILE	185	26.085	61.515	-15.838	1.00	0.00	H
ATOM	1779	CA	ILE	185	25.139	62.225	-14.038	1.00	0.00	C
ATOM	1780	CB	ILE	185	25.823	61.230	-13.123	1.00	0.00	C
ATOM	1781	CG1	ILE	185	27.243	61.560	-12.703	1.00	0.00	C
ATOM	1782	CG2	ILE	185	25.845	59.906	-13.868	1.00	0.00	C
ATOM	1783	CD1	ILE	185	27.823	60.486	-11.785	1.00	0.00	C
ATOM	1784	C	ILE	185	25.526	63.599	-13.619	1.00	0.00	C
ATOM	1785	O	ILE	185	24.692	64.307	-13.072	1.00	0.00	O
ATOM	1786	N	LEU	186	26.735	64.067	-14.002	1.00	0.00	N
ATOM	1787	HN	LEU	186	27.304	63.506	-14.636	1.00	0.00	H
ATOM	1788	CA	LEU	186	27.245	65.333	-13.543	1.00	0.00	C
ATOM	1789	CB	LEU	186	28.523	65.785	-14.273	1.00	0.00	C
ATOM	1790	CG	LEU	186	29.767	64.914	-14.023	1.00	0.00	C
ATOM	1791	CD1	LEU	186	30.981	65.456	-14.799	1.00	0.00	C
ATOM	1792	CD2	LEU	186	30.050	64.765	-12.523	1.00	0.00	C
ATOM	1793	C	LEU	186	26.232	66.393	-13.858	1.00	0.00	C
ATOM	1794	O	LEU	186	25.982	67.287	-13.056	1.00	0.00	O
ATOM	1795	N	ALA	187	25.644	66.345	-15.064	1.00	0.00	N
ATOM	1796	HN	ALA	187	25.876	65.602	-15.724	1.00	0.00	H
ATOM	1797	CA	ALA	187	24.691	67.348	-15.408	1.00	0.00	C
ATOM	1798	CB	ALA	187	24.282	67.273	-16.886	1.00	0.00	C
ATOM	1799	C	ALA	187	23.426	67.245	-14.613	1.00	0.00	C
ATOM	1800	O	ALA	187	23.198	68.030	-13.700	1.00	0.00	O
ATOM	1801	N	ILE	188	22.630	66.183	-14.822	1.00	0.00	N
ATOM	1802	HN	ILE	188	22.930	65.413	-15.421	1.00	0.00	H
ATOM	1803	CA	ILE	188	21.347	66.161	-14.180	1.00	0.00	C
ATOM	1804	CB	ILE	188	20.525	64.999	-14.660	1.00	0.00	C
ATOM	1805	CG1	ILE	188	21.297	63.690	-14.430	1.00	0.00	C
ATOM	1806	CG2	ILE	188	20.142	65.245	-16.129	1.00	0.00	C
ATOM	1807	CD1	ILE	188	20.460	62.431	-14.581	1.00	0.00	C
ATOM	1808	C	ILE	188	21.531	66.073	-12.701	1.00	0.00	C
ATOM	1809	O	ILE	188	21.000	66.884	-11.946	1.00	0.00	O
ATOM	1810	N	SER	189	22.344	65.108	-12.246	1.00	0.00	N
ATOM	1811	HN	SER	189	22.849	64.512	-12.902	1.00	0.00	H
ATOM	1812	CA	SER	189	22.500	64.918	-10.841	1.00	0.00	C
ATOM	1813	CB	SER	189	23.316	63.655	-10.473	1.00	0.00	C
ATOM	1814	OG	SER	189	22.652	62.485	-10.929	1.00	0.00	O
ATOM	1815	HG	SER	189	23.153	61.710	-10.703	1.00	0.00	H
ATOM	1816	C	SER	189	23.071	66.164	-10.219	1.00	0.00	C
ATOM	1817	O	SER	189	22.334	66.798	-9.470	1.00	0.00	O
ATOM	1818	N	PRO	190	24.267	66.640	-10.505	1.00	0.00	N
ATOM	1819	CA	PRO	190	24.694	67.830	-9.820	1.00	0.00	C
ATOM	1820	CD	PRO	190	25.411	65.773	-10.767	1.00	0.00	C
ATOM	1821	CB	PRO	190	26.164	68.015	-10.183	1.00	0.00	C
ATOM	1822	CG	PRO	190	26.658	66.565	-10.333	1.00	0.00	C
ATOM	1823	C	PRO	190	23.810	69.024	-10.041	1.00	0.00	C
ATOM	1824	O	PRO	190	23.840	69.914	-9.194	1.00	0.00	O
ATOM	1825	N	VAL	191	23.054	69.110	-11.158	1.00	0.00	N
ATOM	1826	HN	VAL	191	23.102	68.395	-11.883	1.00	0.00	H
ATOM	1827	CA	VAL	191	22.178	70.245	-11.290	1.00	0.00	C
ATOM	1828	CB	VAL	191	21.605	70.487	-12.663	1.00	0.00	C
ATOM	1829	CG1	VAL	191	22.760	70.734	-13.642	1.00	0.00	C
ATOM	1830	CG2	VAL	191	20.648	69.356	-13.055	1.00	0.00	C
ATOM	1831	C	VAL	191	21.031	70.121	-10.333	1.00	0.00	C
ATOM	1832	O	VAL	191	20.669	71.092	-9.673	1.00	0.00	O
ATOM	1833	N	LEU	192	20.427	68.918	-10.217	1.00	0.00	N
ATOM	1834	HN	LEU	192	20.763	68.122	-10.759	1.00	0.00	H
ATOM	1835	CA	LEU	192	19.311	68.765	-9.329	1.00	0.00	C
ATOM	1836	CB	LEU	192	18.761	67.329	-9.280	1.00	0.00	C
ATOM	1837	CG	LEU	192	18.142	66.835	-10.599	1.00	0.00	C
ATOM	1838	CD1	LEU	192	17.614	65.398	-10.455	1.00	0.00	C
ATOM	1839	CD2	LEU	192	17.070	67.809	-11.116	1.00	0.00	C
ATOM	1840	C	LEU	192	19.836	69.057	-7.966	1.00	0.00	C
ATOM	1841	O	LEU	192	19.238	69.808	-7.200	1.00	0.00	O
ATOM	1842	N	GLY	193	21.033	68.518	-7.672	1.00	0.00	N
ATOM	1843	HN	GLY	193	21.518	67.988	-8.396	1.00	0.00	H
ATOM	1844	CA	GLY	193	21.657	68.654	-6.392	1.00	0.00	C
ATOM	1845	C	GLY	193	21.797	70.113	-6.130	1.00	0.00	C
ATOM	1846	O	GLY	193	21.782	70.538	-4.977	1.00	0.00	O
ATOM	1847	N	LEU	194	22.004	70.908	-7.196	1.00	0.00	N

ATOM	1848	HN	LEU	194	22.074	70.493	-8.125	1.00	0.00	H
ATOM	1849	CA	LEU	194	22.127	72.327	-7.048	1.00	0.00	C
ATOM	1850	CB	LEU	194	22.427	73.051	-8.373	1.00	0.00	C
ATOM	1851	CG	LEU	194	23.788	72.682	-8.990	1.00	0.00	C
ATOM	1852	CD1	LEU	194	24.064	73.503	-10.260	1.00	0.00	C
ATOM	1853	CD2	LEU	194	24.917	72.784	-7.953	1.00	0.00	C
ATOM	1854	C	LEU	194	20.825	72.868	-6.547	1.00	0.00	C
ATOM	1855	O	LEU	194	20.800	73.661	-5.610	1.00	0.00	O
ATOM	1856	N	SER	195	19.697	72.432	-7.137	1.00	0.00	N
ATOM	1857	HN	SER	195	19.752	71.731	-7.876	1.00	0.00	H
ATOM	1858	CA	SER	195	18.416	72.945	-6.736	1.00	0.00	C
ATOM	1859	CB	SER	195	17.249	72.239	-7.441	1.00	0.00	C
ATOM	1860	OG	SER	195	17.408	72.310	-8.846	1.00	0.00	O
ATOM	1861	HG	SER	195	16.686	71.873	-9.282	1.00	0.00	H
ATOM	1862	C	SER	195	18.240	72.610	-5.295	1.00	0.00	C
ATOM	1863	O	SER	195	17.768	73.428	-4.508	1.00	0.00	O
ATOM	1864	N	ALA	196	18.602	71.371	-4.921	1.00	0.00	N
ATOM	1865	HN	ALA	196	19.005	70.734	-5.609	1.00	0.00	H
ATOM	1866	CA	ALA	196	18.429	70.935	-3.571	1.00	0.00	C
ATOM	1867	CB	ALA	196	18.806	69.458	-3.373	1.00	0.00	C
ATOM	1868	C	ALA	196	19.294	71.749	-2.663	1.00	0.00	C
ATOM	1869	O	ALA	196	18.840	72.234	-1.631	1.00	0.00	O
ATOM	1870	N	ALA	197	20.567	71.960	-3.035	1.00	0.00	N
ATOM	1871	HN	ALA	197	20.908	71.614	-3.932	1.00	0.00	H
ATOM	1872	CA	ALA	197	21.440	72.678	-2.155	1.00	0.00	C
ATOM	1873	CB	ALA	197	22.866	72.807	-2.717	1.00	0.00	C
ATOM	1874	C	ALA	197	20.903	74.062	-1.973	1.00	0.00	C
ATOM	1875	O	ALA	197	20.821	74.547	-0.848	1.00	0.00	O
ATOM	1876	N	VAL	198	20.521	74.735	-3.077	1.00	0.00	N
ATOM	1877	HN	VAL	198	20.562	74.267	-3.982	1.00	0.00	H
ATOM	1878	CA	VAL	198	20.058	76.091	-3.013	1.00	0.00	C
ATOM	1879	CB	VAL	198	19.924	76.728	-4.372	1.00	0.00	C
ATOM	1880	CG1	VAL	198	18.968	75.899	-5.249	1.00	0.00	C
ATOM	1881	CG2	VAL	198	19.462	78.181	-4.171	1.00	0.00	C
ATOM	1882	C	VAL	198	18.745	76.234	-2.306	1.00	0.00	C
ATOM	1883	O	VAL	198	18.674	76.910	-1.291	1.00	0.00	O
ATOM	1884	N	TRP	199	17.674	75.561	-2.766	1.00	0.00	N
ATOM	1885	HN	TRP	199	17.773	74.875	-3.515	1.00	0.00	H
ATOM	1886	CA	TRP	199	16.389	75.828	-2.181	1.00	0.00	C
ATOM	1887	CB	TRP	199	15.216	75.090	-2.870	1.00	0.00	C
ATOM	1888	CG	TRP	199	13.833	75.610	-2.512	1.00	0.00	C
ATOM	1889	CD2	TRP	199	12.895	75.004	-1.601	1.00	0.00	C
ATOM	1890	CD1	TRP	199	13.213	76.720	-3.008	1.00	0.00	C
ATOM	1891	NE1	TRP	199	11.956	76.845	-2.466	1.00	0.00	N
ATOM	1892	HE1	TRP	199	11.290	77.590	-2.672	1.00	0.00	H
ATOM	1893	CE2	TRP	199	11.746	75.796	-1.598	1.00	0.00	C
ATOM	1894	CE3	TRP	199	12.979	73.879	-0.830	1.00	0.00	C
ATOM	1895	CZ2	TRP	199	10.662	75.477	-0.830	1.00	0.00	C
ATOM	1896	CZ3	TRP	199	11.885	73.566	-0.051	1.00	0.00	C
ATOM	1897	CH2	TRP	199	10.748	74.347	-0.049	1.00	0.00	C
ATOM	1898	C	TRP	199	16.419	75.410	-0.748	1.00	0.00	C
ATOM	1899	O	TRP	199	16.023	76.172	0.129	1.00	0.00	O
ATOM	1900	N	ALA	200	16.921	74.194	-0.462	1.00	0.00	N
ATOM	1901	HN	ALA	200	17.309	73.612	-1.205	1.00	0.00	H
ATOM	1902	CA	ALA	200	16.908	73.721	0.889	1.00	0.00	C
ATOM	1903	CB	ALA	200	17.458	72.294	1.030	1.00	0.00	C
ATOM	1904	C	ALA	200	17.743	74.620	1.757	1.00	0.00	C
ATOM	1905	O	ALA	200	17.310	75.037	2.828	1.00	0.00	O
ATOM	1906	N	LYS	201	18.959	74.973	1.307	1.00	0.00	N
ATOM	1907	HN	LYS	201	19.267	74.652	0.389	1.00	0.00	H
ATOM	1908	CA	LYS	201	19.833	75.795	2.098	1.00	0.00	C
ATOM	1909	CB	LYS	201	21.244	75.928	1.505	1.00	0.00	C
ATOM	1910	CG	LYS	201	22.033	74.624	1.608	1.00	0.00	C
ATOM	1911	CD	LYS	201	22.150	74.105	3.043	1.00	0.00	C
ATOM	1912	CE	LYS	201	22.892	72.774	3.150	1.00	0.00	C
ATOM	1913	NZ	LYS	201	22.932	72.337	4.563	1.00	0.00	N
ATOM	1914	HZ1	LYS	201	23.427	71.448	4.634	1.00	0.00	H
ATOM	1915	HZ2	LYS	201	22.001	72.292	4.978	1.00	0.00	H
ATOM	1916	HZ3	LYS	201	23.331	73.049	5.174	1.00	0.00	H
ATOM	1917	C	LYS	201	19.237	77.157	2.237	1.00	0.00	C
ATOM	1918	O	LYS	201	19.425	77.815	3.259	1.00	0.00	O
ATOM	1919	N	ILE	202	18.517	77.629	1.203	1.00	0.00	N
ATOM	1920	HN	ILE	202	18.384	77.058	0.369	1.00	0.00	H
ATOM	1921	CA	ILE	202	17.938	78.935	1.278	1.00	0.00	C

ATOM	1922	CB	ILE	202	17.103	79.321	0.090	1.00	0.00	C
ATOM	1923	CG1	ILE	202	17.960	79.547	-1.162	1.00	0.00	C
ATOM	1924	CG2	ILE	202	16.270	80.549	0.489	1.00	0.00	C
ATOM	1925	CD1	ILE	202	17.126	79.692	-2.434	1.00	0.00	C
ATOM	1926	C	ILE	202	17.000	78.905	2.426	1.00	0.00	C
ATOM	1927	O	ILE	202	17.031	79.780	3.287	1.00	0.00	O
ATOM	1928	N	LEU	203	16.156	77.862	2.475	1.00	0.00	N
ATOM	1929	HN	LEU	203	16.185	77.153	1.743	1.00	0.00	H
ATOM	1930	CA	LEU	203	15.222	77.739	3.540	1.00	0.00	C
ATOM	1931	CB	LEU	203	14.233	76.568	3.375	1.00	0.00	C
ATOM	1932	CG	LEU	203	13.097	76.837	2.366	1.00	0.00	C
ATOM	1933	CD1	LEU	203	12.123	77.899	2.902	1.00	0.00	C
ATOM	1934	CD2	LEU	203	13.633	77.201	0.976	1.00	0.00	C
ATOM	1935	C	LEU	203	15.968	77.551	4.818	1.00	0.00	C
ATOM	1936	O	LEU	203	15.563	78.092	5.833	1.00	0.00	O
ATOM	1937	N	SER	204	17.084	76.805	4.836	1.00	0.00	N
ATOM	1938	HN	SER	204	17.447	76.405	3.971	1.00	0.00	H
ATOM	1939	CA	SER	204	17.766	76.573	6.084	1.00	0.00	C
ATOM	1940	CB	SER	204	19.055	75.753	5.907	1.00	0.00	C
ATOM	1941	OG	SER	204	18.744	74.444	5.455	1.00	0.00	O
ATOM	1942	HG	SER	204	19.540	73.937	5.346	1.00	0.00	H
ATOM	1943	C	SER	204	18.150	77.882	6.715	1.00	0.00	C
ATOM	1944	O	SER	204	17.891	78.106	7.896	1.00	0.00	O
ATOM	1945	N	SER	205	18.776	78.793	5.947	1.00	0.00	N
ATOM	1946	HN	SER	205	18.975	78.586	4.968	1.00	0.00	H
ATOM	1947	CA	SER	205	19.163	80.057	6.509	1.00	0.00	C
ATOM	1948	CB	SER	205	19.953	80.925	5.520	1.00	0.00	C
ATOM	1949	OG	SER	205	19.134	81.253	4.409	1.00	0.00	O
ATOM	1950	HG	SER	205	19.623	81.790	3.797	1.00	0.00	H
ATOM	1951	C	SER	205	17.903	80.784	6.856	1.00	0.00	C
ATOM	1952	O	SER	205	17.825	81.508	7.845	1.00	0.00	O
ATOM	1953	N	PHE	206	16.861	80.545	6.046	1.00	0.00	N
ATOM	1954	HN	PHE	206	17.009	79.882	5.285	1.00	0.00	H
ATOM	1955	CA	PHE	206	15.558	81.135	6.150	1.00	0.00	C
ATOM	1956	CB	PHE	206	14.659	80.552	5.039	1.00	0.00	C
ATOM	1957	CG	PHE	206	13.258	81.042	5.098	1.00	0.00	C
ATOM	1958	CD1	PHE	206	12.895	82.231	4.511	1.00	0.00	C
ATOM	1959	CD2	PHE	206	12.296	80.282	5.722	1.00	0.00	C
ATOM	1960	CE1	PHE	206	11.590	82.662	4.563	1.00	0.00	C
ATOM	1961	CE2	PHE	206	10.991	80.707	5.778	1.00	0.00	C
ATOM	1962	CZ	PHE	206	10.638	81.901	5.198	1.00	0.00	C
ATOM	1963	C	PHE	206	15.002	80.778	7.500	1.00	0.00	C
ATOM	1964	O	PHE	206	14.369	81.604	8.153	1.00	0.00	O
ATOM	1965	N	THR	207	15.223	79.525	7.946	1.00	0.00	N
ATOM	1966	HN	THR	207	15.759	78.891	7.354	1.00	0.00	H
ATOM	1967	CA	THR	207	14.748	79.035	9.203	1.00	0.00	C
ATOM	1968	CB	THR	207	15.069	77.586	9.442	1.00	0.00	C
ATOM	1969	OG1	THR	207	14.486	76.773	8.433	1.00	0.00	O
ATOM	1970	HG1	THR	207	14.823	77.020	7.580	1.00	0.00	H
ATOM	1971	CG2	THR	207	14.523	77.186	10.824	1.00	0.00	C
ATOM	1972	C	THR	207	15.425	79.819	10.271	1.00	0.00	C
ATOM	1973	O	THR	207	14.792	80.253	11.231	1.00	0.00	O
ATOM	1974	N	ASP	208	16.740	80.048	10.104	1.00	0.00	N
ATOM	1975	HN	ASP	208	17.201	79.723	9.254	1.00	0.00	H
ATOM	1976	CA	ASP	208	17.505	80.740	11.097	1.00	0.00	C
ATOM	1977	CB	ASP	208	18.949	80.992	10.637	1.00	0.00	C
ATOM	1978	CG	ASP	208	19.620	79.645	10.425	1.00	0.00	C
ATOM	1979	OD1	ASP	208	19.288	78.694	11.182	1.00	0.00	O
ATOM	1980	OD2	ASP	208	20.468	79.548	9.499	1.00	0.00	O
ATOM	1981	C	ASP	208	16.883	82.085	11.277	1.00	0.00	C
ATOM	1982	O	ASP	208	16.557	82.477	12.395	1.00	0.00	O
ATOM	1983	N	LYS	209	16.630	82.791	10.159	1.00	0.00	N
ATOM	1984	HN	LYS	209	16.836	82.374	9.251	1.00	0.00	H
ATOM	1985	CA	LYS	209	16.079	84.113	10.212	1.00	0.00	C
ATOM	1986	CB	LYS	209	15.741	84.674	8.822	1.00	0.00	C
ATOM	1987	CG	LYS	209	14.681	85.771	8.908	1.00	0.00	C
ATOM	1988	CD	LYS	209	15.102	86.988	9.727	1.00	0.00	C
ATOM	1989	CE	LYS	209	13.922	87.635	10.455	1.00	0.00	C
ATOM	1990	NZ	LYS	209	12.726	87.633	9.584	1.00	0.00	N
ATOM	1991	HZ1	LYS	209	11.939	88.064	10.069	1.00	0.00	H
ATOM	1992	HZ2	LYS	209	12.500	86.697	9.247	1.00	0.00	H
ATOM	1993	HZ3	LYS	209	12.909	88.076	8.683	1.00	0.00	H
ATOM	1994	C	LYS	209	14.798	84.045	10.965	1.00	0.00	C
ATOM	1995	O	LYS	209	14.484	84.930	11.760	1.00	0.00	O

ATOM	1996	N	GLU	210	14.022	82.977	10.740	1.00	0.00	N
ATOM	1997	HN	GLU	210	14.319	82.252	10.086	1.00	0.00	H
ATOM	1998	CA	GLU	210	12.776	82.865	11.425	1.00	0.00	C
ATOM	1999	CB	GLU	210	12.004	81.583	11.070	1.00	0.00	C
ATOM	2000	CG	GLU	210	11.422	81.602	9.657	1.00	0.00	C
ATOM	2001	CD	GLU	210	10.218	82.529	9.675	1.00	0.00	C
ATOM	2002	OE1	GLU	210	10.189	83.425	10.558	1.00	0.00	O
ATOM	2003	OE2	GLU	210	9.313	82.353	8.816	1.00	0.00	O
ATOM	2004	C	GLU	210	13.067	82.812	12.889	1.00	0.00	C
ATOM	2005	O	GLU	210	12.373	83.439	13.686	1.00	0.00	O
ATOM	2006	N	LEU	211	14.120	82.065	13.270	1.00	0.00	N
ATOM	2007	HN	LEU	211	14.687	81.620	12.548	1.00	0.00	H
ATOM	2008	CA	LEU	211	14.482	81.866	14.645	1.00	0.00	C
ATOM	2009	CB	LEU	211	15.615	80.837	14.807	1.00	0.00	C
ATOM	2010	CG	LEU	211	15.221	79.428	14.318	1.00	0.00	C
ATOM	2011	CD1	LEU	211	16.364	78.420	14.518	1.00	0.00	C
ATOM	2012	CD2	LEU	211	13.896	78.967	14.949	1.00	0.00	C
ATOM	2013	C	LEU	211	14.907	83.160	15.294	1.00	0.00	C
ATOM	2014	O	LEU	211	14.571	83.394	16.453	1.00	0.00	O
ATOM	2015	N	LEU	212	15.660	84.032	14.583	1.00	0.00	N
ATOM	2016	HN	LEU	212	15.898	83.814	13.615	1.00	0.00	H
ATOM	2017	CA	LEU	212	16.132	85.265	15.169	1.00	0.00	C
ATOM	2018	CB	LEU	212	16.949	86.159	14.215	1.00	0.00	C
ATOM	2019	CG	LEU	212	18.375	85.689	13.862	1.00	0.00	C
ATOM	2020	CD1	LEU	212	18.380	84.420	13.005	1.00	0.00	C
ATOM	2021	CD2	LEU	212	19.172	86.835	13.218	1.00	0.00	C
ATOM	2022	C	LEU	212	14.961	86.107	15.547	1.00	0.00	C
ATOM	2023	O	LEU	212	14.887	86.627	16.660	1.00	0.00	O
ATOM	2024	N	ALA	213	13.993	86.237	14.628	1.00	0.00	N
ATOM	2025	HN	ALA	213	14.075	85.752	13.735	1.00	0.00	H
ATOM	2026	CA	ALA	213	12.846	87.051	14.891	1.00	0.00	C
ATOM	2027	CB	ALA	213	11.813	87.017	13.752	1.00	0.00	C
ATOM	2028	C	ALA	213	12.200	86.462	16.105	1.00	0.00	C
ATOM	2029	O	ALA	213	11.674	87.176	16.955	1.00	0.00	O
ATOM	2030	N	TYR	214	12.249	85.122	16.209	1.00	0.00	N
ATOM	2031	HN	TYR	214	12.711	84.601	15.463	1.00	0.00	H
ATOM	2032	CA	TYR	214	11.694	84.380	17.301	1.00	0.00	C
ATOM	2033	CB	TYR	214	11.959	82.870	17.082	1.00	0.00	C
ATOM	2034	CG	TYR	214	11.982	82.070	18.342	1.00	0.00	C
ATOM	2035	CD1	TYR	214	10.844	81.518	18.874	1.00	0.00	C
ATOM	2036	CD2	TYR	214	13.180	81.850	18.986	1.00	0.00	C
ATOM	2037	CE1	TYR	214	10.902	80.773	20.029	1.00	0.00	C
ATOM	2038	CE2	TYR	214	13.245	81.106	20.141	1.00	0.00	C
ATOM	2039	CZ	TYR	214	12.100	80.564	20.667	1.00	0.00	C
ATOM	2040	OH	TYR	214	12.147	79.798	21.850	1.00	0.00	O
ATOM	2041	HH	TYR	214	11.354	79.423	22.214	1.00	0.00	H
ATOM	2042	C	TYR	214	12.307	84.832	18.597	1.00	0.00	C
ATOM	2043	O	TYR	214	11.594	85.107	19.561	1.00	0.00	O
ATOM	2044	N	ALA	215	13.640	84.974	18.657	1.00	0.00	N
ATOM	2045	HN	ALA	215	14.203	84.830	17.819	1.00	0.00	H
ATOM	2046	CA	ALA	215	14.281	85.328	19.895	1.00	0.00	C
ATOM	2047	CB	ALA	215	15.812	85.386	19.763	1.00	0.00	C
ATOM	2048	C	ALA	215	13.823	86.675	20.353	1.00	0.00	C
ATOM	2049	O	ALA	215	13.578	86.889	21.541	1.00	0.00	O
ATOM	2050	N	LYS	216	13.698	87.625	19.414	1.00	0.00	N
ATOM	2051	HN	LYS	216	13.851	87.379	18.436	1.00	0.00	H
ATOM	2052	CA	LYS	216	13.356	88.975	19.747	1.00	0.00	C
ATOM	2053	CB	LYS	216	13.347	89.864	18.500	1.00	0.00	C
ATOM	2054	CG	LYS	216	14.595	89.632	17.649	1.00	0.00	C
ATOM	2055	CD	LYS	216	15.891	89.657	18.459	1.00	0.00	C
ATOM	2056	CE	LYS	216	15.911	90.754	19.518	1.00	0.00	C
ATOM	2057	NZ	LYS	216	15.551	92.038	18.886	1.00	0.00	N
ATOM	2058	HZ1	LYS	216	15.564	92.772	19.594	1.00	0.00	H
ATOM	2059	HZ2	LYS	216	14.660	91.991	18.392	1.00	0.00	H
ATOM	2060	HZ3	LYS	216	16.146	92.258	18.087	1.00	0.00	H
ATOM	2061	C	LYS	216	11.985	88.996	20.343	1.00	0.00	C
ATOM	2062	O	LYS	216	11.731	89.651	21.353	1.00	0.00	O
ATOM	2063	N	ALA	217	11.068	88.229	19.738	1.00	0.00	N
ATOM	2064	HN	ALA	217	11.357	87.641	18.956	1.00	0.00	H
ATOM	2065	CA	ALA	217	9.700	88.205	20.149	1.00	0.00	C
ATOM	2066	CB	ALA	217	8.862	87.247	19.288	1.00	0.00	C
ATOM	2067	C	ALA	217	9.647	87.733	21.569	1.00	0.00	C
ATOM	2068	O	ALA	217	8.793	88.166	22.340	1.00	0.00	O
ATOM	2069	N	GLY	218	10.553	86.803	21.929	1.00	0.00	N

ATOM	2070	HN	GLY	218	11.225	86.500	21.224	1.00	0.00	H
ATOM	2071	CA	GLY	218	10.642	86.206	23.237	1.00	0.00	C
ATOM	2072	C	GLY	218	11.006	87.206	24.308	1.00	0.00	C
ATOM	2073	O	GLY	218	10.573	87.075	25.452	1.00	0.00	O
ATOM	2074	N	ALA	219	11.894	88.176	24.012	1.00	0.00	N
ATOM	2075	HN	ALA	219	12.309	88.214	23.081	1.00	0.00	H
ATOM	2076	CA	ALA	219	12.264	89.162	24.999	1.00	0.00	C
ATOM	2077	CB	ALA	219	13.390	90.093	24.516	1.00	0.00	C
ATOM	2078	C	ALA	219	11.068	90.011	25.295	1.00	0.00	C
ATOM	2079	O	ALA	219	10.783	90.339	26.447	1.00	0.00	O
ATOM	2080	N	VAL	220	10.333	90.374	24.230	1.00	0.00	N
ATOM	2081	HN	VAL	220	10.645	90.073	23.307	1.00	0.00	H
ATOM	2082	CA	VAL	220	9.136	91.159	24.314	1.00	0.00	C
ATOM	2083	CB	VAL	220	8.523	91.454	22.980	1.00	0.00	C
ATOM	2084	CG1	VAL	220	7.212	92.228	23.209	1.00	0.00	C
ATOM	2085	CG2	VAL	220	9.555	92.201	22.122	1.00	0.00	C
ATOM	2086	C	VAL	220	8.172	90.306	25.061	1.00	0.00	C
ATOM	2087	O	VAL	220	7.128	90.755	25.527	1.00	0.00	O
ATOM	2088	N	ALA	221	8.440	88.996	25.050	1.00	0.00	N
ATOM	2089	HN	ALA	221	9.222	88.657	24.490	1.00	0.00	H
ATOM	2090	CA	ALA	221	7.667	88.058	25.797	1.00	0.00	C
ATOM	2091	CB	ALA	221	7.894	86.580	25.417	1.00	0.00	C
ATOM	2092	C	ALA	221	7.922	88.235	27.277	1.00	0.00	C
ATOM	2093	O	ALA	221	7.119	87.766	28.078	1.00	0.00	O
ATOM	2094	N	GLU	222	9.121	88.732	27.682	1.00	0.00	N
ATOM	2095	HN	GLU	222	9.799	89.011	26.973	1.00	0.00	H
ATOM	2096	CA	GLU	222	9.478	88.883	29.083	1.00	0.00	C
ATOM	2097	CB	GLU	222	11.003	88.938	29.295	1.00	0.00	C
ATOM	2098	CG	GLU	222	11.707	87.588	29.114	1.00	0.00	C
ATOM	2099	CD	GLU	222	11.432	86.730	30.345	1.00	0.00	C
ATOM	2100	OE1	GLU	222	10.644	87.180	31.217	1.00	0.00	O
ATOM	2101	OE2	GLU	222	12.008	85.611	30.429	1.00	0.00	O
ATOM	2102	C	GLU	222	8.897	90.037	29.891	1.00	0.00	C
ATOM	2103	O	GLU	222	8.064	89.812	30.767	1.00	0.00	O
ATOM	2104	N	GLU	223	9.266	91.312	29.591	1.00	0.00	N
ATOM	2105	HN	GLU	223	9.826	91.472	28.753	1.00	0.00	H
ATOM	2106	CA	GLU	223	8.898	92.462	30.412	1.00	0.00	C
ATOM	2107	CB	GLU	223	7.477	93.014	30.163	1.00	0.00	C
ATOM	2108	CG	GLU	223	6.396	91.960	29.918	1.00	0.00	C
ATOM	2109	CD	GLU	223	6.420	91.661	28.423	1.00	0.00	C
ATOM	2110	OE1	GLU	223	7.338	92.184	27.738	1.00	0.00	O
ATOM	2111	OE2	GLU	223	5.526	90.912	27.944	1.00	0.00	O
ATOM	2112	C	GLU	223	9.153	92.213	31.888	1.00	0.00	C
ATOM	2113	O	GLU	223	9.706	91.179	32.251	1.00	0.00	O
ATOM	2114	N	VAL	224	8.825	93.197	32.776	1.00	0.00	N
ATOM	2115	HN	VAL	224	8.383	94.046	32.425	1.00	0.00	H
ATOM	2116	CA	VAL	224	9.081	93.082	34.201	1.00	0.00	C
ATOM	2117	CB	VAL	224	9.057	94.384	34.946	1.00	0.00	C
ATOM	2118	CG1	VAL	224	9.142	94.082	36.453	1.00	0.00	C
ATOM	2119	CG2	VAL	224	10.213	95.254	34.426	1.00	0.00	C
ATOM	2120	C	VAL	224	8.084	92.174	34.856	1.00	0.00	C
ATOM	2121	O	VAL	224	6.909	92.152	34.498	1.00	0.00	O
ATOM	2122	N	LEU	225	8.613	91.236	35.669	1.00	0.00	N
ATOM	2123	HN	LEU	225	9.632	91.189	35.696	1.00	0.00	H
ATOM	2124	CA	LEU	225	7.915	90.294	36.503	1.00	0.00	C
ATOM	2125	CB	LEU	225	8.444	88.872	36.304	1.00	0.00	C
ATOM	2126	CG	LEU	225	8.470	88.513	34.804	1.00	0.00	C
ATOM	2127	CD1	LEU	225	7.127	88.829	34.126	1.00	0.00	C
ATOM	2128	CD2	LEU	225	9.671	89.150	34.090	1.00	0.00	C
ATOM	2129	C	LEU	225	7.841	90.612	37.979	1.00	0.00	C
ATOM	2130	O	LEU	225	7.072	89.971	38.692	1.00	0.00	O
ATOM	2131	N	ALA	226	8.740	91.479	38.498	1.00	0.00	N
ATOM	2132	HN	ALA	226	9.342	91.983	37.847	1.00	0.00	H
ATOM	2133	CA	ALA	226	8.910	91.743	39.915	1.00	0.00	C
ATOM	2134	CB	ALA	226	10.359	92.088	40.299	1.00	0.00	C
ATOM	2135	C	ALA	226	8.052	92.879	40.392	1.00	0.00	C
ATOM	2136	O	ALA	226	7.146	93.324	39.692	1.00	0.00	O
ATOM	2137	N	ALA	227	8.322	93.346	41.642	1.00	0.00	N
ATOM	2138	HN	ALA	227	9.087	92.911	42.158	1.00	0.00	H
ATOM	2139	CA	ALA	227	7.598	94.415	42.284	1.00	0.00	C
ATOM	2140	CB	ALA	227	7.569	95.707	41.452	1.00	0.00	C
ATOM	2141	C	ALA	227	6.207	93.925	42.441	1.00	0.00	C
ATOM	2142	O	ALA	227	5.252	94.680	42.600	1.00	0.00	O
ATOM	2143	N	ILE	228	6.106	92.599	42.517	1.00	0.00	N

ATOM	2144	HN	ILE	228	6.974	92.067	42.579	1.00	0.00	H
ATOM	2145	CA	ILE	228	4.887	91.862	42.519	1.00	0.00	C
ATOM	2146	CB	ILE	228	5.157	90.382	42.628	1.00	0.00	C
ATOM	2147	CG1	ILE	228	3.941	89.516	42.231	1.00	0.00	C
ATOM	2148	CG2	ILE	228	5.701	90.120	44.039	1.00	0.00	C
ATOM	2149	CD1	ILE	228	2.719	89.623	43.140	1.00	0.00	C
ATOM	2150	C	ILE	228	4.020	92.297	43.650	1.00	0.00	C
ATOM	2151	O	ILE	228	2.815	92.336	43.461	1.00	0.00	O
ATOM	2152	N	ARG	229	4.556	92.636	44.841	1.00	0.00	N
ATOM	2153	HN	ARG	229	5.568	92.657	44.967	1.00	0.00	H
ATOM	2154	CA	ARG	229	3.674	92.969	45.935	1.00	0.00	C
ATOM	2155	CB	ARG	229	4.439	93.379	47.207	1.00	0.00	C
ATOM	2156	CG	ARG	229	3.523	93.649	48.403	1.00	0.00	C
ATOM	2157	CD	ARG	229	4.266	93.781	49.735	1.00	0.00	C
ATOM	2158	NE	ARG	229	4.801	95.168	49.827	1.00	0.00	N
ATOM	2159	HE	ARG	229	5.158	95.636	48.994	1.00	0.00	H
ATOM	2160	CZ	ARG	229	4.811	95.810	51.030	1.00	0.00	C
ATOM	2161	NH1	ARG	229	4.299	95.198	52.139	1.00	0.00	N
ATOM	2162	1HH1	ARG	229	3.910	94.258	52.065	1.00	0.00	H
ATOM	2163	2HH1	ARG	229	4.306	95.678	53.039	1.00	0.00	H
ATOM	2164	NH2	ARG	229	5.331	97.067	51.129	1.00	0.00	N
ATOM	2165	1HH2	ARG	229	5.713	97.524	50.301	1.00	0.00	H
ATOM	2166	2HH2	ARG	229	5.338	97.547	52.029	1.00	0.00	H
ATOM	2167	C	ARG	229	2.805	94.115	45.519	1.00	0.00	C
ATOM	2168	O	ARG	229	1.585	94.060	45.667	1.00	0.00	O
ATOM	2169	N	THR	230	3.401	95.159	44.915	1.00	0.00	N
ATOM	2170	HN	THR	230	4.409	95.158	44.760	1.00	0.00	H
ATOM	2171	CA	THR	230	2.605	96.273	44.492	1.00	0.00	C
ATOM	2172	CB	THR	230	3.406	97.411	43.925	1.00	0.00	C
ATOM	2173	OG1	THR	230	4.125	96.999	42.773	1.00	0.00	O
ATOM	2174	HG1	THR	230	4.631	97.718	42.415	1.00	0.00	H
ATOM	2175	CG2	THR	230	4.371	97.916	45.007	1.00	0.00	C
ATOM	2176	C	THR	230	1.667	95.783	43.437	1.00	0.00	C
ATOM	2177	O	THR	230	0.545	96.270	43.303	1.00	0.00	O
ATOM	2178	N	VAL	231	2.139	94.815	42.638	1.00	0.00	N
ATOM	2179	HN	VAL	231	3.077	94.458	42.820	1.00	0.00	H
ATOM	2180	CA	VAL	231	1.403	94.251	41.541	1.00	0.00	C
ATOM	2181	CB	VAL	231	2.248	93.372	40.666	1.00	0.00	C
ATOM	2182	CG1	VAL	231	1.361	92.788	39.551	1.00	0.00	C
ATOM	2183	CG2	VAL	231	3.432	94.205	40.146	1.00	0.00	C
ATOM	2184	C	VAL	231	0.218	93.433	41.998	1.00	0.00	C
ATOM	2185	O	VAL	231	-0.765	93.315	41.272	1.00	0.00	O
ATOM	2186	N	ILE	232	0.295	92.779	43.170	1.00	0.00	N
ATOM	2187	HN	ILE	232	1.132	92.883	43.744	1.00	0.00	H
ATOM	2188	CA	ILE	232	-0.769	91.940	43.632	1.00	0.00	C
ATOM	2189	CB	ILE	232	-0.368	91.122	44.832	1.00	0.00	C
ATOM	2190	CG1	ILE	232	-1.312	89.924	44.991	1.00	0.00	C
ATOM	2191	CG2	ILE	232	-0.273	92.022	46.073	1.00	0.00	C
ATOM	2192	CD1	ILE	232	-0.791	88.884	45.975	1.00	0.00	C
ATOM	2193	C	ILE	232	-1.934	92.829	43.941	1.00	0.00	C
ATOM	2194	O	ILE	232	-3.082	92.514	43.635	1.00	0.00	O
ATOM	2195	N	ALA	233	-1.641	93.980	44.571	1.00	0.00	N
ATOM	2196	HN	ALA	233	-0.673	94.130	44.855	1.00	0.00	H
ATOM	2197	CA	ALA	233	-2.591	95.014	44.873	1.00	0.00	C
ATOM	2198	CB	ALA	233	-1.986	96.165	45.698	1.00	0.00	C
ATOM	2199	C	ALA	233	-3.057	95.589	43.569	1.00	0.00	C
ATOM	2200	O	ALA	233	-4.078	96.271	43.499	1.00	0.00	O
ATOM	2201	N	PHE	234	-2.205	95.474	42.536	1.00	0.00	N
ATOM	2202	HN	PHE	234	-1.304	95.028	42.709	1.00	0.00	H
ATOM	2203	CA	PHE	234	-2.481	95.940	41.200	1.00	0.00	C
ATOM	2204	CB	PHE	234	-1.204	95.954	40.341	1.00	0.00	C
ATOM	2205	CG	PHE	234	-1.487	96.677	39.070	1.00	0.00	C
ATOM	2206	CD1	PHE	234	-1.696	98.037	39.083	1.00	0.00	C
ATOM	2207	CD2	PHE	234	-1.510	96.007	37.869	1.00	0.00	C
ATOM	2208	CE1	PHE	234	-1.950	98.718	37.916	1.00	0.00	C
ATOM	2209	CE2	PHE	234	-1.763	96.684	36.699	1.00	0.00	C
ATOM	2210	CZ	PHE	234	-1.985	98.041	36.721	1.00	0.00	C
ATOM	2211	C	PHE	234	-3.514	95.066	40.534	1.00	0.00	C
ATOM	2212	O	PHE	234	-4.437	95.578	39.896	1.00	0.00	O
ATOM	2213	N	GLY	235	-3.388	93.723	40.693	1.00	0.00	N
ATOM	2214	HN	GLY	235	-2.599	93.374	41.238	1.00	0.00	H
ATOM	2215	CA	GLY	235	-4.308	92.764	40.134	1.00	0.00	C
ATOM	2216	C	GLY	235	-3.582	91.667	39.422	1.00	0.00	C
ATOM	2217	O	GLY	235	-3.728	90.488	39.749	1.00	0.00	O

ATOM	2218	N	GLY	236	-2.752	92.026	38.442	1.00	0.00	N
ATOM	2219	HN	GLY	236	-2.631	93.014	38.220	1.00	0.00	H
ATOM	2220	CA	GLY	236	-2.035	91.047	37.704	1.00	0.00	C
ATOM	2221	C	GLY	236	-2.235	91.504	36.328	1.00	0.00	C
ATOM	2222	O	GLY	236	-3.389	91.600	35.901	1.00	0.00	O
ATOM	2223	N	GLN	237	-1.123	91.811	35.622	1.00	0.00	N
ATOM	2224	HN	GLN	237	-0.186	91.709	36.012	1.00	0.00	H
ATOM	2225	CA	GLN	237	-1.347	92.285	34.302	1.00	0.00	C
ATOM	2226	CB	GLN	237	-0.075	92.698	33.538	1.00	0.00	C
ATOM	2227	CG	GLN	237	0.365	94.140	33.813	1.00	0.00	C
ATOM	2228	CD	GLN	237	1.051	94.275	35.167	1.00	0.00	C
ATOM	2229	OE1	GLN	237	0.607	93.719	36.171	1.00	0.00	O
ATOM	2230	NE2	GLN	237	2.169	95.052	35.194	1.00	0.00	N
ATOM	2231	1HE2	GLN	237	2.628	95.142	36.100	1.00	0.00	H
ATOM	2232	2HE2	GLN	237	2.537	95.513	34.362	1.00	0.00	H
ATOM	2233	C	GLN	237	-2.045	91.148	33.607	1.00	0.00	C
ATOM	2234	O	GLN	237	-3.203	91.291	33.216	1.00	0.00	O
ATOM	2235	N	LYS	238	-1.389	89.970	33.588	1.00	0.00	N
ATOM	2236	HN	LYS	238	-0.429	89.989	33.932	1.00	0.00	H
ATOM	2237	CA	LYS	238	-1.872	88.693	33.144	1.00	0.00	C
ATOM	2238	CB	LYS	238	-3.206	88.309	33.804	1.00	0.00	C
ATOM	2239	CG	LYS	238	-3.174	88.276	35.329	1.00	0.00	C
ATOM	2240	CD	LYS	238	-4.577	88.225	35.940	1.00	0.00	C
ATOM	2241	CE	LYS	238	-5.267	89.588	36.037	1.00	0.00	C
ATOM	2242	NZ	LYS	238	-5.758	90.017	34.707	1.00	0.00	N
ATOM	2243	HZ1	LYS	238	-6.218	90.925	34.772	1.00	0.00	H
ATOM	2244	HZ2	LYS	238	-6.363	89.315	34.282	1.00	0.00	H
ATOM	2245	HZ3	LYS	238	-5.013	90.018	34.010	1.00	0.00	H
ATOM	2246	C	LYS	238	-2.141	88.680	31.673	1.00	0.00	C
ATOM	2247	O	LYS	238	-1.888	87.676	31.013	1.00	0.00	O
ATOM	2248	N	LYS	239	-2.768	89.764	31.174	1.00	0.00	N
ATOM	2249	HN	LYS	239	-3.030	90.471	31.861	1.00	0.00	H
ATOM	2250	CA	LYS	239	-3.120	90.068	29.820	1.00	0.00	C
ATOM	2251	CB	LYS	239	-4.363	90.974	29.777	1.00	0.00	C
ATOM	2252	CG	LYS	239	-4.940	91.253	28.389	1.00	0.00	C
ATOM	2253	CD	LYS	239	-4.074	92.136	27.491	1.00	0.00	C
ATOM	2254	CE	LYS	239	-4.763	92.507	26.180	1.00	0.00	C
ATOM	2255	NZ	LYS	239	-4.072	93.650	25.545	1.00	0.00	N
ATOM	2256	HZ1	LYS	239	-4.532	93.898	24.669	1.00	0.00	H
ATOM	2257	HZ2	LYS	239	-3.077	93.469	25.414	1.00	0.00	H
ATOM	2258	HZ3	LYS	239	-3.998	94.448	26.176	1.00	0.00	H
ATOM	2259	C	LYS	239	-2.013	90.744	29.073	1.00	0.00	C
ATOM	2260	O	LYS	239	-1.838	90.478	27.890	1.00	0.00	O
ATOM	2261	N	GLU	240	-1.279	91.693	29.702	1.00	0.00	N
ATOM	2262	HN	GLU	240	-1.457	91.929	30.678	1.00	0.00	H
ATOM	2263	CA	GLU	240	-0.238	92.362	28.958	1.00	0.00	C
ATOM	2264	CB	GLU	240	0.477	93.486	29.727	1.00	0.00	C
ATOM	2265	CG	GLU	240	-0.380	94.726	29.970	1.00	0.00	C
ATOM	2266	CD	GLU	240	0.556	95.829	30.449	1.00	0.00	C
ATOM	2267	OE1	GLU	240	1.690	95.915	29.905	1.00	0.00	O
ATOM	2268	OE2	GLU	240	0.149	96.602	31.357	1.00	0.00	O
ATOM	2269	C	GLU	240	0.789	91.329	28.665	1.00	0.00	C
ATOM	2270	O	GLU	240	1.257	91.200	27.535	1.00	0.00	O
ATOM	2271	N	LEU	241	1.143	90.547	29.700	1.00	0.00	N
ATOM	2272	HN	LEU	241	0.699	90.692	30.607	1.00	0.00	H
ATOM	2273	CA	LEU	241	2.126	89.516	29.562	1.00	0.00	C
ATOM	2274	CB	LEU	241	2.427	88.771	30.873	1.00	0.00	C
ATOM	2275	CG	LEU	241	1.274	88.821	31.889	1.00	0.00	C
ATOM	2276	CD1	LEU	241	1.470	87.789	33.002	1.00	0.00	C
ATOM	2277	CD2	LEU	241	1.172	90.231	32.489	1.00	0.00	C
ATOM	2278	C	LEU	241	1.629	88.490	28.599	1.00	0.00	C
ATOM	2279	O	LEU	241	2.280	88.227	27.595	1.00	0.00	O
ATOM	2280	N	GLU	242	0.422	87.941	28.821	1.00	0.00	N
ATOM	2281	HN	GLU	242	-0.151	88.276	29.595	1.00	0.00	H
ATOM	2282	CA	GLU	242	-0.067	86.888	27.978	1.00	0.00	C
ATOM	2283	CB	GLU	242	-1.469	86.421	28.418	1.00	0.00	C
ATOM	2284	CG	GLU	242	-1.932	85.105	27.791	1.00	0.00	C
ATOM	2285	CD	GLU	242	-2.379	85.370	26.363	1.00	0.00	C
ATOM	2286	OE1	GLU	242	-2.893	86.489	26.097	1.00	0.00	O
ATOM	2287	OE2	GLU	242	-2.218	84.446	25.521	1.00	0.00	O
ATOM	2288	C	GLU	242	-0.160	87.418	26.589	1.00	0.00	C
ATOM	2289	O	GLU	242	0.240	86.749	25.640	1.00	0.00	O
ATOM	2290	N	ARG	243	-0.656	88.660	26.431	1.00	0.00	N
ATOM	2291	HN	ARG	243	-0.875	89.239	27.242	1.00	0.00	H

ATOM	2292	CA	ARG	243	-0.870	89.153	25.107	1.00	0.00	C
ATOM	2293	CB	ARG	243	-1.535	90.530	25.032	1.00	0.00	C
ATOM	2294	CG	ARG	243	-1.826	90.854	23.572	1.00	0.00	C
ATOM	2295	CD	ARG	243	-3.113	91.629	23.338	1.00	0.00	C
ATOM	2296	NE	ARG	243	-3.522	91.293	21.946	1.00	0.00	N
ATOM	2297	HE	ARG	243	-3.386	91.958	21.185	1.00	0.00	H
ATOM	2298	CZ	ARG	243	-4.084	90.070	21.717	1.00	0.00	C
ATOM	2299	NH1	ARG	243	-4.244	89.197	22.754	1.00	0.00	N
ATOM	2300	1HH1	ARG	243	-3.967	89.472	23.696	1.00	0.00	H
ATOM	2301	2HH1	ARG	243	-4.664	88.283	22.583	1.00	0.00	H
ATOM	2302	NH2	ARG	243	-4.455	89.702	20.456	1.00	0.00	N
ATOM	2303	1HH2	ARG	243	-4.335	90.354	19.681	1.00	0.00	H
ATOM	2304	2HH2	ARG	243	-4.875	88.788	20.285	1.00	0.00	H
ATOM	2305	C	ARG	243	0.416	89.216	24.359	1.00	0.00	C
ATOM	2306	O	ARG	243	0.500	88.687	23.256	1.00	0.00	O
ATOM	2307	N	TYR	244	1.467	89.835	24.924	1.00	0.00	N
ATOM	2308	HN	TYR	244	1.390	90.262	25.847	1.00	0.00	H
ATOM	2309	CA	TYR	244	2.696	89.878	24.193	1.00	0.00	C
ATOM	2310	CB	TYR	244	3.736	90.843	24.776	1.00	0.00	C
ATOM	2311	CG	TYR	244	3.191	92.176	24.411	1.00	0.00	C
ATOM	2312	CD1	TYR	244	3.501	92.723	23.188	1.00	0.00	C
ATOM	2313	CD2	TYR	244	2.351	92.858	25.258	1.00	0.00	C
ATOM	2314	CE1	TYR	244	2.999	93.946	22.821	1.00	0.00	C
ATOM	2315	CE2	TYR	244	1.845	94.084	24.895	1.00	0.00	C
ATOM	2316	CZ	TYR	244	2.170	94.630	23.675	1.00	0.00	C
ATOM	2317	OH	TYR	244	1.651	95.887	23.300	1.00	0.00	O
ATOM	2318	HH	TYR	244	1.875	96.264	22.457	1.00	0.00	H
ATOM	2319	C	TYR	244	3.265	88.501	24.081	1.00	0.00	C
ATOM	2320	O	TYR	244	3.769	88.133	23.023	1.00	0.00	O
ATOM	2321	N	ASN	245	3.196	87.691	25.156	1.00	0.00	N
ATOM	2322	HN	ASN	245	2.724	87.999	26.006	1.00	0.00	H
ATOM	2323	CA	ASN	245	3.796	86.387	25.088	1.00	0.00	C
ATOM	2324	CB	ASN	245	3.577	85.551	26.367	1.00	0.00	C
ATOM	2325	CG	ASN	245	4.673	85.867	27.380	1.00	0.00	C
ATOM	2326	OD1	ASN	245	5.731	85.242	27.370	1.00	0.00	O
ATOM	2327	ND2	ASN	245	4.435	86.851	28.284	1.00	0.00	N
ATOM	2328	1HD2	ASN	245	5.168	87.062	28.961	1.00	0.00	H
ATOM	2329	2HD2	ASN	245	3.557	87.370	28.292	1.00	0.00	H
ATOM	2330	C	ASN	245	3.233	85.603	23.942	1.00	0.00	C
ATOM	2331	O	ASN	245	3.948	85.351	22.977	1.00	0.00	O
ATOM	2332	N	LYS	246	1.927	85.271	23.969	1.00	0.00	N
ATOM	2333	HN	LYS	246	1.345	85.605	24.737	1.00	0.00	H
ATOM	2334	CA	LYS	246	1.334	84.458	22.942	1.00	0.00	C
ATOM	2335	CB	LYS	246	-0.109	84.010	23.231	1.00	0.00	C
ATOM	2336	CG	LYS	246	-0.604	82.965	22.224	1.00	0.00	C
ATOM	2337	CD	LYS	246	-1.851	82.199	22.669	1.00	0.00	C
ATOM	2338	CE	LYS	246	-3.168	82.860	22.256	1.00	0.00	C
ATOM	2339	NZ	LYS	246	-4.307	81.991	22.629	1.00	0.00	N
ATOM	2340	HZ1	LYS	246	-5.185	82.432	22.354	1.00	0.00	H
ATOM	2341	HZ2	LYS	246	-4.295	81.748	23.620	1.00	0.00	H
ATOM	2342	HZ3	LYS	246	-4.213	81.051	22.244	1.00	0.00	H
ATOM	2343	C	LYS	246	1.330	85.202	21.654	1.00	0.00	C
ATOM	2344	O	LYS	246	1.293	84.579	20.596	1.00	0.00	O
ATOM	2345	N	ASN	247	1.295	86.550	21.694	1.00	0.00	N
ATOM	2346	HN	ASN	247	1.325	87.056	22.579	1.00	0.00	H
ATOM	2347	CA	ASN	247	1.214	87.243	20.442	1.00	0.00	C
ATOM	2348	CB	ASN	247	1.091	88.770	20.584	1.00	0.00	C
ATOM	2349	CG	ASN	247	0.624	89.325	19.245	1.00	0.00	C
ATOM	2350	OD1	ASN	247	1.325	89.233	18.239	1.00	0.00	O
ATOM	2351	ND2	ASN	247	-0.605	89.910	19.230	1.00	0.00	N
ATOM	2352	1HD2	ASN	247	-0.918	90.282	18.333	1.00	0.00	H
ATOM	2353	2HD2	ASN	247	-1.187	89.986	20.065	1.00	0.00	H
ATOM	2354	C	ASN	247	2.431	86.957	19.622	1.00	0.00	C
ATOM	2355	O	ASN	247	2.337	86.294	18.592	1.00	0.00	O
ATOM	2356	N	LEU	248	3.622	87.388	20.080	1.00	0.00	N
ATOM	2357	HN	LEU	248	3.688	87.875	20.974	1.00	0.00	H
ATOM	2358	CA	LEU	248	4.791	87.152	19.293	1.00	0.00	C
ATOM	2359	CB	LEU	248	6.035	87.893	19.788	1.00	0.00	C
ATOM	2360	CG	LEU	248	5.999	89.391	19.450	1.00	0.00	C
ATOM	2361	CD1	LEU	248	4.860	90.110	20.181	1.00	0.00	C
ATOM	2362	CD2	LEU	248	7.368	90.040	19.678	1.00	0.00	C
ATOM	2363	C	LEU	248	5.077	85.691	19.260	1.00	0.00	C
ATOM	2364	O	LEU	248	5.435	85.155	18.215	1.00	0.00	O
ATOM	2365	N	GLU	249	4.902	84.993	20.396	1.00	0.00	N



ATOM	2366	HN	GLU	249	4.528	85.448	21.229	1.00	0.00	H
ATOM	2367	CA	GLU	249	5.247	83.605	20.422	1.00	0.00	C
ATOM	2368	CB	GLU	249	5.046	82.933	21.793	1.00	0.00	C
ATOM	2369	CG	GLU	249	5.688	81.546	21.868	1.00	0.00	C
ATOM	2370	CD	GLU	249	5.727	81.062	23.310	1.00	0.00	C
ATOM	2371	OE1	GLU	249	4.707	81.235	24.026	1.00	0.00	O
ATOM	2372	OE2	GLU	249	6.787	80.511	23.712	1.00	0.00	O
ATOM	2373	C	GLU	249	4.436	82.880	19.419	1.00	0.00	C
ATOM	2374	O	GLU	249	5.016	82.131	18.659	1.00	0.00	O
ATOM	2375	N	GLU	250	3.109	83.088	19.342	1.00	0.00	N
ATOM	2376	HN	GLU	250	2.673	83.764	19.970	1.00	0.00	H
ATOM	2377	CA	GLU	250	2.290	82.379	18.395	1.00	0.00	C
ATOM	2378	CB	GLU	250	0.801	82.718	18.556	1.00	0.00	C
ATOM	2379	CG	GLU	250	-0.131	81.815	17.752	1.00	0.00	C
ATOM	2380	CD	GLU	250	-1.550	82.149	18.182	1.00	0.00	C
ATOM	2381	OE1	GLU	250	-1.716	83.145	18.937	1.00	0.00	O
ATOM	2382	OE2	GLU	250	-2.486	81.418	17.768	1.00	0.00	O
ATOM	2383	C	GLU	250	2.692	82.766	17.012	1.00	0.00	C
ATOM	2384	O	GLU	250	2.795	81.910	16.135	1.00	0.00	O
ATOM	2385	N	ALA	251	2.963	84.067	16.791	1.00	0.00	N
ATOM	2386	HN	ALA	251	2.989	84.726	17.569	1.00	0.00	H
ATOM	2387	CA	ALA	251	3.215	84.519	15.455	1.00	0.00	C
ATOM	2388	CB	ALA	251	3.554	86.017	15.405	1.00	0.00	C
ATOM	2389	C	ALA	251	4.390	83.787	14.907	1.00	0.00	C
ATOM	2390	O	ALA	251	4.273	83.086	13.909	1.00	0.00	O
ATOM	2391	N	LYS	252	5.528	83.874	15.607	1.00	0.00	N
ATOM	2392	HN	LYS	252	5.516	84.428	16.463	1.00	0.00	H
ATOM	2393	CA	LYS	252	6.757	83.247	15.242	1.00	0.00	C
ATOM	2394	CB	LYS	252	7.910	83.703	16.150	1.00	0.00	C
ATOM	2395	CG	LYS	252	7.910	85.215	16.391	1.00	0.00	C
ATOM	2396	CD	LYS	252	7.898	86.058	15.117	1.00	0.00	C
ATOM	2397	CE	LYS	252	7.889	87.565	15.386	1.00	0.00	C
ATOM	2398	NZ	LYS	252	7.904	88.303	14.104	1.00	0.00	N
ATOM	2399	HZ1	LYS	252	7.898	89.307	14.283	1.00	0.00	H
ATOM	2400	HZ2	LYS	252	7.142	88.019	13.489	1.00	0.00	H
ATOM	2401	HZ3	LYS	252	8.685	88.024	13.510	1.00	0.00	H
ATOM	2402	C	LYS	252	6.560	81.789	15.473	1.00	0.00	C
ATOM	2403	O	LYS	252	7.359	80.972	15.040	1.00	0.00	O
ATOM	2404	N	ARG	253	5.573	81.405	16.294	1.00	0.00	N
ATOM	2405	HN	ARG	253	4.947	82.081	16.731	1.00	0.00	H
ATOM	2406	CA	ARG	253	5.441	80.003	16.527	1.00	0.00	C
ATOM	2407	CB	ARG	253	4.346	79.563	17.516	1.00	0.00	C
ATOM	2408	CG	ARG	253	4.807	79.431	18.970	1.00	0.00	C
ATOM	2409	CD	ARG	253	6.219	78.863	19.125	1.00	0.00	C
ATOM	2410	NE	ARG	253	6.980	79.810	19.988	1.00	0.00	N
ATOM	2411	HE	ARG	253	7.029	79.644	20.993	1.00	0.00	H
ATOM	2412	CZ	ARG	253	7.612	80.896	19.455	1.00	0.00	C
ATOM	2413	NH1	ARG	253	7.612	81.101	18.107	1.00	0.00	N
ATOM	2414	1HH1	ARG	253	8.084	81.913	17.709	1.00	0.00	H
ATOM	2415	2HH1	ARG	253	7.146	80.435	17.491	1.00	0.00	H
ATOM	2416	NH2	ARG	253	8.236	81.787	20.280	1.00	0.00	N
ATOM	2417	1HH2	ARG	253	8.708	82.599	19.882	1.00	0.00	H
ATOM	2418	2HH2	ARG	253	8.236	81.634	21.288	1.00	0.00	H
ATOM	2419	C	ARG	253	5.096	79.401	15.247	1.00	0.00	C
ATOM	2420	O	ARG	253	5.974	78.839	14.623	1.00	0.00	O
ATOM	2421	N	ILE	254	3.880	79.671	14.749	1.00	0.00	N
ATOM	2422	HN	ILE	254	3.269	80.298	15.273	1.00	0.00	H
ATOM	2423	CA	ILE	254	3.401	79.124	13.523	1.00	0.00	C
ATOM	2424	CB	ILE	254	1.976	79.524	13.220	1.00	0.00	C
ATOM	2425	CG1	ILE	254	1.817	81.043	13.003	1.00	0.00	C
ATOM	2426	CG2	ILE	254	1.091	78.986	14.354	1.00	0.00	C
ATOM	2427	CD1	ILE	254	2.206	81.531	11.607	1.00	0.00	C
ATOM	2428	C	ILE	254	4.293	79.637	12.451	1.00	0.00	C
ATOM	2429	O	ILE	254	4.495	78.939	11.469	1.00	0.00	O
ATOM	2430	N	GLY	255	4.782	80.892	12.568	1.00	0.00	N
ATOM	2431	HN	GLY	255	4.562	81.433	13.404	1.00	0.00	H
ATOM	2432	CA	GLY	255	5.605	81.489	11.547	1.00	0.00	C
ATOM	2433	C	GLY	255	6.948	80.832	11.405	1.00	0.00	C
ATOM	2434	O	GLY	255	7.308	80.374	10.323	1.00	0.00	O
ATOM	2435	N	ILE	256	7.725	80.760	12.502	1.00	0.00	N
ATOM	2436	HN	ILE	256	7.377	81.154	13.376	1.00	0.00	H
ATOM	2437	CA	ILE	256	9.021	80.152	12.489	1.00	0.00	C
ATOM	2438	CB	ILE	256	9.932	80.266	13.685	1.00	0.00	C
ATOM	2439	CG1	ILE	256	9.547	79.353	14.849	1.00	0.00	C

ATOM	2440	CG2	ILE	256	9.990	81.750	14.062	1.00	0.00	C
ATOM	2441	CD1	ILE	256	10.703	79.161	15.827	1.00	0.00	C
ATOM	2442	C	ILE	256	8.749	78.717	12.321	1.00	0.00	C
ATOM	2443	O	ILE	256	9.691	77.964	12.165	1.00	0.00	O
ATOM	2444	N	LYS	257	7.505	78.301	12.638	1.00	0.00	N
ATOM	2445	HN	LYS	257	6.893	78.987	13.079	1.00	0.00	H
ATOM	2446	CA	LYS	257	6.952	76.992	12.419	1.00	0.00	C
ATOM	2447	CB	LYS	257	5.700	76.558	13.204	1.00	0.00	C
ATOM	2448	CG	LYS	257	5.990	75.714	14.452	1.00	0.00	C
ATOM	2449	CD	LYS	257	6.771	76.402	15.571	1.00	0.00	C
ATOM	2450	CE	LYS	257	7.006	75.492	16.779	1.00	0.00	C
ATOM	2451	NZ	LYS	257	7.688	76.244	17.856	1.00	0.00	N
ATOM	2452	HZ1	LYS	257	7.845	75.638	18.661	1.00	0.00	H
ATOM	2453	HZ2	LYS	257	7.181	77.092	18.110	1.00	0.00	H
ATOM	2454	HZ3	LYS	257	8.552	76.678	17.531	1.00	0.00	H
ATOM	2455	C	LYS	257	6.598	76.816	10.986	1.00	0.00	C
ATOM	2456	O	LYS	257	6.237	75.719	10.599	1.00	0.00	O
ATOM	2457	N	LYS	258	6.466	77.908	10.211	1.00	0.00	N
ATOM	2458	HN	LYS	258	6.531	78.839	10.622	1.00	0.00	H
ATOM	2459	CA	LYS	258	6.235	77.756	8.812	1.00	0.00	C
ATOM	2460	CB	LYS	258	5.819	79.034	8.058	1.00	0.00	C
ATOM	2461	CG	LYS	258	6.976	79.936	7.627	1.00	0.00	C
ATOM	2462	CD	LYS	258	6.568	80.907	6.516	1.00	0.00	C
ATOM	2463	CE	LYS	258	7.736	81.674	5.894	1.00	0.00	C
ATOM	2464	NZ	LYS	258	7.254	82.461	4.737	1.00	0.00	N
ATOM	2465	HZ1	LYS	258	8.033	82.972	4.322	1.00	0.00	H
ATOM	2466	HZ2	LYS	258	6.479	83.076	4.986	1.00	0.00	H
ATOM	2467	HZ3	LYS	258	6.767	81.881	4.053	1.00	0.00	H
ATOM	2468	C	LYS	258	7.562	77.358	8.331	1.00	0.00	C
ATOM	2469	O	LYS	258	7.675	76.600	7.379	1.00	0.00	O
ATOM	2470	N	ALA	259	8.583	77.974	8.965	1.00	0.00	N
ATOM	2471	HN	ALA	259	8.324	78.724	9.606	1.00	0.00	H
ATOM	2472	CA	ALA	259	9.980	77.705	8.849	1.00	0.00	C
ATOM	2473	CB	ALA	259	10.857	78.715	9.602	1.00	0.00	C
ATOM	2474	C	ALA	259	10.234	76.377	9.483	1.00	0.00	C
ATOM	2475	O	ALA	259	11.161	75.688	9.092	1.00	0.00	O
ATOM	2476	N	ILE	260	9.494	76.037	10.558	1.00	0.00	N
ATOM	2477	HN	ILE	260	8.760	76.676	10.863	1.00	0.00	H
ATOM	2478	CA	ILE	260	9.690	74.820	11.293	1.00	0.00	C
ATOM	2479	CB	ILE	260	8.874	74.723	12.550	1.00	0.00	C
ATOM	2480	CG1	ILE	260	9.380	75.685	13.639	1.00	0.00	C
ATOM	2481	CG2	ILE	260	8.859	73.247	12.974	1.00	0.00	C
ATOM	2482	CD1	ILE	260	10.822	75.425	14.074	1.00	0.00	C
ATOM	2483	C	ILE	260	9.219	73.739	10.422	1.00	0.00	C
ATOM	2484	O	ILE	260	9.953	72.820	10.071	1.00	0.00	O
ATOM	2485	N	THR	261	7.972	73.925	9.977	1.00	0.00	N
ATOM	2486	HN	THR	261	7.485	74.758	10.308	1.00	0.00	H
ATOM	2487	CA	THR	261	7.259	73.079	9.090	1.00	0.00	C
ATOM	2488	CB	THR	261	5.807	73.414	8.863	1.00	0.00	C
ATOM	2489	OG1	THR	261	5.674	74.710	8.297	1.00	0.00	O
ATOM	2490	HG1	THR	261	6.152	74.787	7.479	1.00	0.00	H
ATOM	2491	CG2	THR	261	5.034	73.290	10.186	1.00	0.00	C
ATOM	2492	C	THR	261	7.946	73.247	7.797	1.00	0.00	C
ATOM	2493	O	THR	261	7.544	72.629	6.828	1.00	0.00	O
ATOM	2494	N	ALA	262	8.778	74.300	7.702	1.00	0.00	N
ATOM	2495	HN	ALA	262	8.767	74.966	8.475	1.00	0.00	H
ATOM	2496	CA	ALA	262	9.678	74.579	6.622	1.00	0.00	C
ATOM	2497	CB	ALA	262	10.175	76.020	6.469	1.00	0.00	C
ATOM	2498	C	ALA	262	10.909	73.764	6.721	1.00	0.00	C
ATOM	2499	O	ALA	262	11.567	73.612	5.708	1.00	0.00	O
ATOM	2500	N	ASN	263	11.366	73.421	7.946	1.00	0.00	N
ATOM	2501	HN	ASN	263	10.871	73.780	8.763	1.00	0.00	H
ATOM	2502	CA	ASN	263	12.506	72.582	8.160	1.00	0.00	C
ATOM	2503	CB	ASN	263	12.962	72.536	9.626	1.00	0.00	C
ATOM	2504	CG	ASN	263	14.229	71.696	9.704	1.00	0.00	C
ATOM	2505	OD1	ASN	263	14.197	70.478	9.536	1.00	0.00	O
ATOM	2506	ND2	ASN	263	15.383	72.366	9.964	1.00	0.00	N
ATOM	2507	1HD2	ASN	263	16.232	71.803	10.016	1.00	0.00	H
ATOM	2508	2HD2	ASN	263	15.410	73.376	10.103	1.00	0.00	H
ATOM	2509	C	ASN	263	11.944	71.269	7.809	1.00	0.00	C
ATOM	2510	O	ASN	263	12.565	70.405	7.194	1.00	0.00	O
ATOM	2511	N	ILE	264	10.680	71.132	8.221	1.00	0.00	N
ATOM	2512	HN	ILE	264	10.246	71.881	8.761	1.00	0.00	H
ATOM	2513	CA	ILE	264	9.933	69.970	7.923	1.00	0.00	C

ATOM	2514	CB	ILE	264	8.548	70.067	8.487	1.00	0.00	C
ATOM	2515	CG1	ILE	264	8.602	70.150	10.022	1.00	0.00	C
ATOM	2516	CG2	ILE	264	7.719	68.897	7.939	1.00	0.00	C
ATOM	2517	CD1	ILE	264	9.256	68.932	10.678	1.00	0.00	C
ATOM	2518	C	ILE	264	9.820	69.979	6.445	1.00	0.00	C
ATOM	2519	O	ILE	264	10.181	69.032	5.755	1.00	0.00	O
ATOM	2520	N	SER	265	9.410	71.138	5.922	1.00	0.00	N
ATOM	2521	HN	SER	265	9.236	71.922	6.550	1.00	0.00	H
ATOM	2522	CA	SER	265	9.206	71.326	4.526	1.00	0.00	C
ATOM	2523	CB	SER	265	8.667	72.716	4.124	1.00	0.00	C
ATOM	2524	OG	SER	265	7.258	72.777	4.281	1.00	0.00	O
ATOM	2525	HG	SER	265	6.926	73.632	4.034	1.00	0.00	H
ATOM	2526	C	SER	265	10.535	71.167	3.891	1.00	0.00	C
ATOM	2527	O	SER	265	10.605	71.028	2.675	1.00	0.00	O
ATOM	2528	N	ILE	266	11.613	71.279	4.695	1.00	0.00	N
ATOM	2529	HN	ILE	266	11.450	71.494	5.679	1.00	0.00	H
ATOM	2530	CA	ILE	266	12.974	71.117	4.264	1.00	0.00	C
ATOM	2531	CB	ILE	266	14.057	71.552	5.217	1.00	0.00	C
ATOM	2532	CG1	ILE	266	14.203	73.076	5.319	1.00	0.00	C
ATOM	2533	CG2	ILE	266	15.349	70.851	4.770	1.00	0.00	C
ATOM	2534	CD1	ILE	266	15.030	73.513	6.527	1.00	0.00	C
ATOM	2535	C	ILE	266	13.226	69.684	4.048	1.00	0.00	C
ATOM	2536	O	ILE	266	13.853	69.308	3.061	1.00	0.00	O
ATOM	2537	N	GLY	267	12.751	68.853	4.996	1.00	0.00	N
ATOM	2538	HN	GLY	267	12.250	69.225	5.803	1.00	0.00	H
ATOM	2539	CA	GLY	267	12.956	67.449	4.860	1.00	0.00	C
ATOM	2540	C	GLY	267	12.273	67.153	3.575	1.00	0.00	C
ATOM	2541	O	GLY	267	12.755	66.396	2.733	1.00	0.00	O
ATOM	2542	N	ALA	268	11.129	67.828	3.397	1.00	0.00	N
ATOM	2543	HN	ALA	268	10.800	68.433	4.150	1.00	0.00	H
ATOM	2544	CA	ALA	268	10.351	67.742	2.209	1.00	0.00	C
ATOM	2545	CB	ALA	268	9.056	68.561	2.306	1.00	0.00	C
ATOM	2546	C	ALA	268	11.157	68.270	1.056	1.00	0.00	C
ATOM	2547	O	ALA	268	11.034	67.769	-0.057	1.00	0.00	O
ATOM	2548	N	ALA	269	11.962	69.335	1.251	1.00	0.00	N
ATOM	2549	HN	ALA	269	12.057	69.756	2.175	1.00	0.00	H
ATOM	2550	CA	ALA	269	12.682	69.861	0.126	1.00	0.00	C
ATOM	2551	CB	ALA	269	13.467	71.135	0.473	1.00	0.00	C
ATOM	2552	C	ALA	269	13.674	68.860	-0.351	1.00	0.00	C
ATOM	2553	O	ALA	269	13.470	68.258	-1.403	1.00	0.00	O
ATOM	2554	N	PHE	270	14.660	68.516	0.509	1.00	0.00	N
ATOM	2555	HN	PHE	270	14.648	68.889	1.458	1.00	0.00	H
ATOM	2556	CA	PHE	270	15.722	67.637	0.113	1.00	0.00	C
ATOM	2557	CB	PHE	270	16.725	67.272	1.223	1.00	0.00	C
ATOM	2558	CG	PHE	270	17.863	68.228	1.195	1.00	0.00	C
ATOM	2559	CD1	PHE	270	18.812	68.097	0.207	1.00	0.00	C
ATOM	2560	CD2	PHE	270	18.014	69.217	2.139	1.00	0.00	C
ATOM	2561	CE1	PHE	270	19.889	68.948	0.142	1.00	0.00	C
ATOM	2562	CE2	PHE	270	19.091	70.072	2.079	1.00	0.00	C
ATOM	2563	CZ	PHE	270	20.028	69.940	1.081	1.00	0.00	C
ATOM	2564	C	PHE	270	15.144	66.351	-0.360	1.00	0.00	C
ATOM	2565	O	PHE	270	15.655	65.773	-1.311	1.00	0.00	O
ATOM	2566	N	LEU	271	14.120	65.840	0.338	1.00	0.00	N
ATOM	2567	HN	LEU	271	13.771	66.359	1.144	1.00	0.00	H
ATOM	2568	CA	LEU	271	13.494	64.594	0.000	1.00	0.00	C
ATOM	2569	CB	LEU	271	12.687	64.077	1.208	1.00	0.00	C
ATOM	2570	CG	LEU	271	11.947	62.742	1.035	1.00	0.00	C
ATOM	2571	CD1	LEU	271	11.495	62.199	2.406	1.00	0.00	C
ATOM	2572	CD2	LEU	271	10.750	62.892	0.090	1.00	0.00	C
ATOM	2573	C	LEU	271	12.662	64.672	-1.266	1.00	0.00	C
ATOM	2574	O	LEU	271	12.733	63.781	-2.115	1.00	0.00	O
ATOM	2575	N	LEU	272	11.851	65.736	-1.446	1.00	0.00	N
ATOM	2576	HN	LEU	272	11.824	66.471	-0.740	1.00	0.00	H
ATOM	2577	CA	LEU	272	11.023	65.850	-2.620	1.00	0.00	C
ATOM	2578	CB	LEU	272	10.126	67.105	-2.583	1.00	0.00	C
ATOM	2579	CG	LEU	272	9.044	67.209	-3.684	1.00	0.00	C
ATOM	2580	CD1	LEU	272	8.217	68.490	-3.512	1.00	0.00	C
ATOM	2581	CD2	LEU	272	9.604	67.099	-5.111	1.00	0.00	C
ATOM	2582	C	LEU	272	11.958	65.960	-3.773	1.00	0.00	C
ATOM	2583	O	LEU	272	11.798	65.297	-4.796	1.00	0.00	O
ATOM	2584	N	ILE	273	12.977	66.813	-3.607	1.00	0.00	N
ATOM	2585	HN	ILE	273	13.032	67.332	-2.730	1.00	0.00	H
ATOM	2586	CA	ILE	273	13.991	67.038	-4.586	1.00	0.00	C
ATOM	2587	CB	ILE	273	14.902	68.195	-4.279	1.00	0.00	C

ATOM	2588	CG1	ILE	273	15.642	68.595	-5.557	1.00	0.00	C
ATOM	2589	CG2	ILE	273	15.833	67.827	-3.119	1.00	0.00	C
ATOM	2590	CD1	ILE	273	14.685	69.073	-6.646	1.00	0.00	C
ATOM	2591	C	ILE	273	14.773	65.777	-4.709	1.00	0.00	C
ATOM	2592	O	ILE	273	15.442	65.551	-5.716	1.00	0.00	O
ATOM	2593	N	TYR	274	14.789	64.980	-3.622	1.00	0.00	N
ATOM	2594	HN	TYR	274	14.298	65.283	-2.781	1.00	0.00	H
ATOM	2595	CA	TYR	274	15.471	63.725	-3.608	1.00	0.00	C
ATOM	2596	CB	TYR	274	15.366	63.034	-2.233	1.00	0.00	C
ATOM	2597	CG	TYR	274	15.803	61.611	-2.311	1.00	0.00	C
ATOM	2598	CD1	TYR	274	17.139	61.280	-2.284	1.00	0.00	C
ATOM	2599	CD2	TYR	274	14.871	60.605	-2.419	1.00	0.00	C
ATOM	2600	CE1	TYR	274	17.536	59.964	-2.353	1.00	0.00	C
ATOM	2601	CE2	TYR	274	15.261	59.288	-2.487	1.00	0.00	C
ATOM	2602	CZ	TYR	274	16.596	58.966	-2.453	1.00	0.00	C
ATOM	2603	OH	TYR	274	17.004	57.617	-2.520	1.00	0.00	O
ATOM	2604	HH	TYR	274	17.927	57.394	-2.496	1.00	0.00	H
ATOM	2605	C	TYR	274	14.821	62.880	-4.644	1.00	0.00	C
ATOM	2606	O	TYR	274	15.476	62.454	-5.575	1.00	0.00	O
ATOM	2607	N	ALA	275	13.492	62.714	-4.600	1.00	0.00	N
ATOM	2608	HN	ALA	275	12.949	63.184	-3.876	1.00	0.00	H
ATOM	2609	CA	ALA	275	12.825	61.884	-5.558	1.00	0.00	C
ATOM	2610	CB	ALA	275	11.307	61.796	-5.331	1.00	0.00	C
ATOM	2611	C	ALA	275	13.061	62.471	-6.906	1.00	0.00	C
ATOM	2612	O	ALA	275	13.082	61.748	-7.899	1.00	0.00	O
ATOM	2613	N	SER	276	13.192	63.811	-6.969	1.00	0.00	N
ATOM	2614	HN	SER	276	13.107	64.356	-6.111	1.00	0.00	H
ATOM	2615	CA	SER	276	13.447	64.494	-8.203	1.00	0.00	C
ATOM	2616	CB	SER	276	13.653	66.006	-8.016	1.00	0.00	C
ATOM	2617	OG	SER	276	14.011	66.607	-9.252	1.00	0.00	O
ATOM	2618	HG	SER	276	14.138	67.541	-9.136	1.00	0.00	H
ATOM	2619	C	SER	276	14.724	63.951	-8.747	1.00	0.00	C
ATOM	2620	O	SER	276	14.838	63.739	-9.954	1.00	0.00	O
ATOM	2621	N	TYR	277	15.696	63.679	-7.849	1.00	0.00	N
ATOM	2622	HN	TYR	277	15.516	63.843	-6.859	1.00	0.00	H
ATOM	2623	CA	TYR	277	16.971	63.168	-8.248	1.00	0.00	C
ATOM	2624	CB	TYR	277	17.935	62.797	-7.084	1.00	0.00	C
ATOM	2625	CG	TYR	277	18.130	61.317	-6.844	1.00	0.00	C
ATOM	2626	CD1	TYR	277	17.296	60.554	-6.060	1.00	0.00	C
ATOM	2627	CD2	TYR	277	19.207	60.663	-7.398	1.00	0.00	C
ATOM	2628	CE1	TYR	277	17.476	59.218	-5.828	1.00	0.00	C
ATOM	2629	CE2	TYR	277	19.405	59.319	-7.172	1.00	0.00	C
ATOM	2630	CZ	TYR	277	18.546	58.588	-6.394	1.00	0.00	C
ATOM	2631	OH	TYR	277	18.763	57.212	-6.175	1.00	0.00	O
ATOM	2632	HH	TYR	277	19.508	56.773	-6.569	1.00	0.00	H
ATOM	2633	C	TYR	277	16.607	61.920	-8.945	1.00	0.00	C
ATOM	2634	O	TYR	277	17.008	61.732	-10.079	1.00	0.00	O
ATOM	2635	N	ALA	278	15.710	61.120	-8.342	1.00	0.00	N
ATOM	2636	HN	ALA	278	15.308	61.413	-7.451	1.00	0.00	H
ATOM	2637	CA	ALA	278	15.301	59.874	-8.907	1.00	0.00	C
ATOM	2638	CB	ALA	278	14.192	59.198	-8.085	1.00	0.00	C
ATOM	2639	C	ALA	278	14.748	60.147	-10.271	1.00	0.00	C
ATOM	2640	O	ALA	278	15.000	59.387	-11.203	1.00	0.00	O
ATOM	2641	N	LEU	279	13.988	61.249	-10.431	1.00	0.00	N
ATOM	2642	HN	LEU	279	13.849	61.886	-9.646	1.00	0.00	H
ATOM	2643	CA	LEU	279	13.372	61.534	-11.697	1.00	0.00	C
ATOM	2644	CB	LEU	279	12.553	62.845	-11.602	1.00	0.00	C
ATOM	2645	CG	LEU	279	11.808	63.334	-12.866	1.00	0.00	C
ATOM	2646	CD1	LEU	279	10.841	64.471	-12.509	1.00	0.00	C
ATOM	2647	CD2	LEU	279	12.756	63.760	-13.998	1.00	0.00	C
ATOM	2648	C	LEU	279	14.404	61.656	-12.782	1.00	0.00	C
ATOM	2649	O	LEU	279	14.500	60.798	-13.652	1.00	0.00	O
ATOM	2650	N	ALA	280	15.287	62.664	-12.722	1.00	0.00	N
ATOM	2651	HN	ALA	280	15.280	63.302	-11.926	1.00	0.00	H
ATOM	2652	CA	ALA	280	16.243	62.845	-13.779	1.00	0.00	C
ATOM	2653	CB	ALA	280	17.151	64.069	-13.560	1.00	0.00	C
ATOM	2654	C	ALA	280	17.102	61.638	-13.777	1.00	0.00	C
ATOM	2655	O	ALA	280	17.593	61.198	-14.814	1.00	0.00	O
ATOM	2656	N	PHE	281	17.296	61.084	-12.572	1.00	0.00	N
ATOM	2657	HN	PHE	281	16.801	61.473	-11.769	1.00	0.00	H
ATOM	2658	CA	PHE	281	18.165	59.973	-12.366	1.00	0.00	C
ATOM	2659	CB	PHE	281	17.962	59.364	-10.972	1.00	0.00	C
ATOM	2660	CG	PHE	281	19.121	58.576	-10.491	1.00	0.00	C
ATOM	2661	CD1	PHE	281	20.205	59.247	-9.983	1.00	0.00	C

ATOM	2662	CD2	PHE	281	19.135	57.202	-10.535	1.00	0.00	C
ATOM	2663	CE1	PHE	281	21.290	58.560	-9.501	1.00	0.00	C
ATOM	2664	CE2	PHE	281	20.222	56.509	-10.059	1.00	0.00	C
ATOM	2665	CZ	PHE	281	21.299	57.187	-9.538	1.00	0.00	C
ATOM	2666	C	PHE	281	17.727	58.918	-13.307	1.00	0.00	C
ATOM	2667	O	PHE	281	18.344	58.700	-14.341	1.00	0.00	O
ATOM	2668	N	TRP	282	16.550	58.342	-13.042	1.00	0.00	N
ATOM	2669	HN	TRP	282	15.968	58.705	-12.287	1.00	0.00	H
ATOM	2670	CA	TRP	282	16.101	57.226	-13.805	1.00	0.00	C
ATOM	2671	CB	TRP	282	14.866	56.561	-13.173	1.00	0.00	C
ATOM	2672	CG	TRP	282	15.171	56.089	-11.772	1.00	0.00	C
ATOM	2673	CD2	TRP	282	16.332	55.311	-11.452	1.00	0.00	C
ATOM	2674	CD1	TRP	282	14.544	56.354	-10.588	1.00	0.00	C
ATOM	2675	NE1	TRP	282	15.244	55.783	-9.552	1.00	0.00	N
ATOM	2676	HE1	TRP	282	14.988	55.827	-8.566	1.00	0.00	H
ATOM	2677	CE2	TRP	282	16.349	55.142	-10.067	1.00	0.00	C
ATOM	2678	CE3	TRP	282	17.313	54.795	-12.246	1.00	0.00	C
ATOM	2679	CZ2	TRP	282	17.353	54.449	-9.455	1.00	0.00	C
ATOM	2680	CZ3	TRP	282	18.316	54.083	-11.629	1.00	0.00	C
ATOM	2681	CH2	TRP	282	18.335	53.915	-10.259	1.00	0.00	C
ATOM	2682	C	TRP	282	15.787	57.651	-15.199	1.00	0.00	C
ATOM	2683	O	TRP	282	16.078	56.921	-16.143	1.00	0.00	O
ATOM	2684	N	TYR	283	15.179	58.841	-15.377	1.00	0.00	N
ATOM	2685	HN	TYR	283	15.029	59.482	-14.598	1.00	0.00	H
ATOM	2686	CA	TYR	283	14.753	59.168	-16.705	1.00	0.00	C
ATOM	2687	CB	TYR	283	13.898	60.442	-16.791	1.00	0.00	C
ATOM	2688	CG	TYR	283	13.161	60.320	-18.082	1.00	0.00	C
ATOM	2689	CD1	TYR	283	12.113	59.430	-18.164	1.00	0.00	C
ATOM	2690	CD2	TYR	283	13.484	61.068	-19.190	1.00	0.00	C
ATOM	2691	CE1	TYR	283	11.401	59.272	-19.327	1.00	0.00	C
ATOM	2692	CE2	TYR	283	12.774	60.915	-20.361	1.00	0.00	C
ATOM	2693	CZ	TYR	283	11.732	60.017	-20.432	1.00	0.00	C
ATOM	2694	OH	TYR	283	11.007	59.861	-21.632	1.00	0.00	O
ATOM	2695	HH	TYR	283	11.236	60.376	-22.396	1.00	0.00	H
ATOM	2696	C	TYR	283	15.930	59.325	-17.622	1.00	0.00	C
ATOM	2697	O	TYR	283	16.042	58.613	-18.615	1.00	0.00	O
ATOM	2698	N	GLY	284	16.896	60.191	-17.267	1.00	0.00	N
ATOM	2699	HN	GLY	284	16.830	60.679	-16.374	1.00	0.00	H
ATOM	2700	CA	GLY	284	18.018	60.438	-18.126	1.00	0.00	C
ATOM	2701	C	GLY	284	18.717	59.136	-18.283	1.00	0.00	C
ATOM	2702	O	GLY	284	19.339	58.866	-19.310	1.00	0.00	O
ATOM	2703	N	THR	285	18.683	58.322	-17.217	1.00	0.00	N
ATOM	2704	HN	THR	285	18.202	58.630	-16.372	1.00	0.00	H
ATOM	2705	CA	THR	285	19.303	57.035	-17.235	1.00	0.00	C
ATOM	2706	CB	THR	285	19.173	56.316	-15.935	1.00	0.00	C
ATOM	2707	OG1	THR	285	20.039	56.871	-14.957	1.00	0.00	O
ATOM	2708	HG1	THR	285	19.956	56.413	-14.129	1.00	0.00	H
ATOM	2709	CG2	THR	285	19.418	54.824	-16.173	1.00	0.00	C
ATOM	2710	C	THR	285	18.700	56.126	-18.246	1.00	0.00	C
ATOM	2711	O	THR	285	19.405	55.590	-19.098	1.00	0.00	O
ATOM	2712	N	THR	286	17.371	55.953	-18.201	1.00	0.00	N
ATOM	2713	HN	THR	286	16.812	56.513	-17.557	1.00	0.00	H
ATOM	2714	CA	THR	286	16.727	54.995	-19.042	1.00	0.00	C
ATOM	2715	CB	THR	286	15.242	54.944	-18.845	1.00	0.00	C
ATOM	2716	OG1	THR	286	14.929	54.555	-17.516	1.00	0.00	O
ATOM	2717	HG1	THR	286	15.294	55.167	-16.888	1.00	0.00	H
ATOM	2718	CG2	THR	286	14.652	53.954	-19.861	1.00	0.00	C
ATOM	2719	C	THR	286	16.972	55.350	-20.465	1.00	0.00	C
ATOM	2720	O	THR	286	17.363	54.500	-21.263	1.00	0.00	O
ATOM	2721	N	LEU	287	16.789	56.634	-20.817	1.00	0.00	N
ATOM	2722	HN	LEU	287	16.556	57.332	-20.111	1.00	0.00	H
ATOM	2723	CA	LEU	287	16.924	57.015	-22.190	1.00	0.00	C
ATOM	2724	CB	LEU	287	16.711	58.525	-22.392	1.00	0.00	C
ATOM	2725	CG	LEU	287	16.766	58.971	-23.862	1.00	0.00	C
ATOM	2726	CD1	LEU	287	15.585	58.397	-24.662	1.00	0.00	C
ATOM	2727	CD2	LEU	287	16.876	60.500	-23.975	1.00	0.00	C
ATOM	2728	C	LEU	287	18.316	56.676	-22.630	1.00	0.00	C
ATOM	2729	O	LEU	287	18.516	56.006	-23.641	1.00	0.00	O
ATOM	2730	N	VAL	288	19.313	57.082	-21.828	1.00	0.00	N
ATOM	2731	HN	VAL	288	19.064	57.549	-20.956	1.00	0.00	H
ATOM	2732	CA	VAL	288	20.706	56.901	-22.120	1.00	0.00	C
ATOM	2733	CB	VAL	288	21.602	57.765	-21.264	1.00	0.00	C
ATOM	2734	CG1	VAL	288	23.065	57.610	-21.717	1.00	0.00	C
ATOM	2735	CG2	VAL	288	21.109	59.218	-21.367	1.00	0.00	C

ATOM	2736	C	VAL	288	21.047	55.442	-21.974	1.00	0.00	C
ATOM	2737	O	VAL	288	22.204	55.060	-22.093	1.00	0.00	O
ATOM	2738	N	LEU	289	20.117	54.640	-21.426	1.00	0.00	N
ATOM	2739	HN	LEU	289	19.260	55.068	-21.075	1.00	0.00	H
ATOM	2740	CA	LEU	289	20.260	53.214	-21.306	1.00	0.00	C
ATOM	2741	CB	LEU	289	19.578	52.742	-20.011	1.00	0.00	C
ATOM	2742	CG	LEU	289	19.879	51.306	-19.563	1.00	0.00	C
ATOM	2743	CD1	LEU	289	21.392	51.026	-19.531	1.00	0.00	C
ATOM	2744	CD2	LEU	289	19.256	51.081	-18.175	1.00	0.00	C
ATOM	2745	C	LEU	289	19.758	52.468	-22.516	1.00	0.00	C
ATOM	2746	O	LEU	289	20.271	51.404	-22.856	1.00	0.00	O
ATOM	2747	N	SER	290	18.662	52.951	-23.139	1.00	0.00	N
ATOM	2748	HN	SER	290	18.220	53.802	-22.790	1.00	0.00	H
ATOM	2749	CA	SER	290	18.108	52.286	-24.285	1.00	0.00	C
ATOM	2750	CB	SER	290	16.648	52.688	-24.560	1.00	0.00	C
ATOM	2751	OG	SER	290	16.552	54.087	-24.766	1.00	0.00	O
ATOM	2752	HG	SER	290	15.651	54.335	-24.936	1.00	0.00	H
ATOM	2753	C	SER	290	18.925	52.556	-25.512	1.00	0.00	C
ATOM	2754	O	SER	290	19.185	51.640	-26.293	1.00	0.00	O
ATOM	2755	N	GLY	291	19.281	53.837	-25.759	1.00	0.00	N
ATOM	2756	HN	GLY	291	19.014	54.579	-25.112	1.00	0.00	H
ATOM	2757	CA	GLY	291	20.039	54.142	-26.942	1.00	0.00	C
ATOM	2758	C	GLY	291	21.476	53.701	-26.885	1.00	0.00	C
ATOM	2759	O	GLY	291	21.897	52.821	-27.628	1.00	0.00	O
ATOM	2760	N	GLU	292	22.256	54.238	-25.931	1.00	0.00	N
ATOM	2761	HN	GLU	292	21.827	54.833	-25.222	1.00	0.00	H
ATOM	2762	CA	GLU	292	23.675	54.004	-25.874	1.00	0.00	C
ATOM	2763	CB	GLU	292	24.471	55.320	-25.968	1.00	0.00	C
ATOM	2764	CG	GLU	292	25.989	55.158	-25.916	1.00	0.00	C
ATOM	2765	CD	GLU	292	26.600	56.531	-25.672	1.00	0.00	C
ATOM	2766	OE1	GLU	292	26.113	57.244	-24.754	1.00	0.00	O
ATOM	2767	OE2	GLU	292	27.566	56.884	-26.400	1.00	0.00	O
ATOM	2768	C	GLU	292	23.944	53.459	-24.517	1.00	0.00	C
ATOM	2769	O	GLU	292	23.003	53.354	-23.742	1.00	0.00	O
ATOM	2770	N	TYR	293	25.203	53.013	-24.254	1.00	0.00	N
ATOM	2771	HN	TYR	293	25.853	52.944	-25.037	1.00	0.00	H
ATOM	2772	CA	TYR	293	25.685	52.631	-22.948	1.00	0.00	C
ATOM	2773	CB	TYR	293	26.024	53.887	-22.111	1.00	0.00	C
ATOM	2774	CG	TYR	293	26.605	53.558	-20.774	1.00	0.00	C
ATOM	2775	CD1	TYR	293	27.876	53.044	-20.672	1.00	0.00	C
ATOM	2776	CD2	TYR	293	25.900	53.811	-19.617	1.00	0.00	C
ATOM	2777	CE1	TYR	293	28.424	52.756	-19.444	1.00	0.00	C
ATOM	2778	CE2	TYR	293	26.442	53.527	-18.385	1.00	0.00	C
ATOM	2779	CZ	TYR	293	27.705	52.996	-18.296	1.00	0.00	C
ATOM	2780	OH	TYR	293	28.267	52.701	-17.034	1.00	0.00	O
ATOM	2781	HH	TYR	293	29.141	52.334	-16.972	1.00	0.00	H
ATOM	2782	C	TYR	293	24.637	51.809	-22.253	1.00	0.00	C
ATOM	2783	O	TYR	293	24.317	52.060	-21.093	1.00	0.00	O
ATOM	2784	N	SER	294	24.078	50.794	-22.948	1.00	0.00	N
ATOM	2785	HN	SER	294	24.452	50.529	-23.859	1.00	0.00	H
ATOM	2786	CA	SER	294	22.951	50.089	-22.395	1.00	0.00	C
ATOM	2787	CB	SER	294	22.081	49.439	-23.484	1.00	0.00	C
ATOM	2788	OG	SER	294	22.871	48.552	-24.263	1.00	0.00	O
ATOM	2789	HG	SER	294	22.334	48.150	-24.936	1.00	0.00	H
ATOM	2790	C	SER	294	23.396	49.002	-21.465	1.00	0.00	C
ATOM	2791	O	SER	294	23.320	47.816	-21.783	1.00	0.00	O
ATOM	2792	N	ILE	295	23.958	49.417	-20.318	1.00	0.00	N
ATOM	2793	HN	ILE	295	24.097	50.423	-20.227	1.00	0.00	H
ATOM	2794	CA	ILE	295	24.388	48.618	-19.202	1.00	0.00	C
ATOM	2795	CB	ILE	295	25.647	49.180	-18.613	1.00	0.00	C
ATOM	2796	CG1	ILE	295	25.576	50.716	-18.609	1.00	0.00	C
ATOM	2797	CG2	ILE	295	26.835	48.619	-19.413	1.00	0.00	C
ATOM	2798	CD1	ILE	295	24.344	51.315	-17.948	1.00	0.00	C
ATOM	2799	C	ILE	295	23.393	48.248	-18.121	1.00	0.00	C
ATOM	2800	O	ILE	295	23.455	47.145	-17.577	1.00	0.00	O
ATOM	2801	N	GLY	296	22.508	49.182	-17.688	1.00	0.00	N
ATOM	2802	HN	GLY	296	22.419	50.063	-18.194	1.00	0.00	H
ATOM	2803	CA	GLY	296	21.687	48.945	-16.516	1.00	0.00	C
ATOM	2804	C	GLY	296	22.624	49.200	-15.363	1.00	0.00	C
ATOM	2805	O	GLY	296	22.338	48.888	-14.206	1.00	0.00	O
ATOM	2806	N	GLN	297	23.848	49.618	-15.748	1.00	0.00	N
ATOM	2807	HN	GLN	297	23.953	49.693	-16.760	1.00	0.00	H
ATOM	2808	CA	GLN	297	25.030	49.978	-15.021	1.00	0.00	C
ATOM	2809	CB	GLN	297	26.334	49.505	-15.665	1.00	0.00	C

ATOM	2810	CG	GLN	297	27.361	49.350	-14.552	1.00	0.00	C
ATOM	2811	CD	GLN	297	26.611	48.567	-13.476	1.00	0.00	C
ATOM	2812	OE1	GLN	297	26.270	47.400	-13.660	1.00	0.00	O
ATOM	2813	NE2	GLN	297	26.304	49.234	-12.333	1.00	0.00	N
ATOM	2814	1HE2	GLN	297	26.587	50.202	-12.180	1.00	0.00	H
ATOM	2815	2HE2	GLN	297	25.803	48.711	-11.615	1.00	0.00	H
ATOM	2816	C	GLN	297	25.149	51.430	-14.706	1.00	0.00	C
ATOM	2817	O	GLN	297	26.062	51.841	-13.997	1.00	0.00	O
ATOM	2818	N	VAL	298	24.304	52.288	-15.299	1.00	0.00	N
ATOM	2819	HN	VAL	298	23.607	51.935	-15.955	1.00	0.00	H
ATOM	2820	CA	VAL	298	24.368	53.697	-15.023	1.00	0.00	C
ATOM	2821	CB	VAL	298	23.269	54.439	-15.695	1.00	0.00	C
ATOM	2822	CG1	VAL	298	23.506	54.431	-17.215	1.00	0.00	C
ATOM	2823	CG2	VAL	298	21.980	53.718	-15.285	1.00	0.00	C
ATOM	2824	C	VAL	298	24.179	53.840	-13.548	1.00	0.00	C
ATOM	2825	O	VAL	298	24.600	54.827	-12.946	1.00	0.00	O
ATOM	2826	N	LEU	299	23.545	52.826	-12.933	1.00	0.00	N
ATOM	2827	HN	LEU	299	23.252	52.028	-13.496	1.00	0.00	H
ATOM	2828	CA	LEU	299	23.261	52.807	-11.538	1.00	0.00	C
ATOM	2829	CB	LEU	299	22.842	51.403	-11.080	1.00	0.00	C
ATOM	2830	CG	LEU	299	22.526	51.294	-9.581	1.00	0.00	C
ATOM	2831	CD1	LEU	299	21.306	52.149	-9.197	1.00	0.00	C
ATOM	2832	CD2	LEU	299	22.387	49.823	-9.164	1.00	0.00	C
ATOM	2833	C	LEU	299	24.493	53.171	-10.776	1.00	0.00	C
ATOM	2834	O	LEU	299	24.480	54.213	-10.124	1.00	0.00	O
ATOM	2835	N	THR	300	25.614	52.431	-10.941	1.00	0.00	N
ATOM	2836	HN	THR	300	25.630	51.685	-11.636	1.00	0.00	H
ATOM	2837	CA	THR	300	26.784	52.690	-10.142	1.00	0.00	C
ATOM	2838	CB	THR	300	27.987	51.927	-10.567	1.00	0.00	C
ATOM	2839	OG1	THR	300	27.721	50.549	-10.450	1.00	0.00	O
ATOM	2840	HG1	THR	300	28.490	50.061	-10.722	1.00	0.00	H
ATOM	2841	CG2	THR	300	29.176	52.310	-9.669	1.00	0.00	C
ATOM	2842	C	THR	300	27.192	54.116	-10.264	1.00	0.00	C
ATOM	2843	O	THR	300	27.438	54.770	-9.253	1.00	0.00	O
ATOM	2844	N	VAL	301	27.281	54.644	-11.499	1.00	0.00	N
ATOM	2845	HN	VAL	301	27.035	54.105	-12.329	1.00	0.00	H
ATOM	2846	CA	VAL	301	27.739	56.001	-11.592	1.00	0.00	C
ATOM	2847	CB	VAL	301	27.980	56.492	-12.993	1.00	0.00	C
ATOM	2848	CG1	VAL	301	29.200	55.751	-13.551	1.00	0.00	C
ATOM	2849	CG2	VAL	301	26.725	56.292	-13.851	1.00	0.00	C
ATOM	2850	C	VAL	301	26.820	56.969	-10.911	1.00	0.00	C
ATOM	2851	O	VAL	301	27.168	57.488	-9.854	1.00	0.00	O
ATOM	2852	N	PHE	302	25.579	57.137	-11.413	1.00	0.00	N
ATOM	2853	HN	PHE	302	25.262	56.531	-12.170	1.00	0.00	H
ATOM	2854	CA	PHE	302	24.692	58.151	-10.906	1.00	0.00	C
ATOM	2855	CB	PHE	302	23.306	58.078	-11.575	1.00	0.00	C
ATOM	2856	CG	PHE	302	23.392	58.529	-12.992	1.00	0.00	C
ATOM	2857	CD1	PHE	302	23.897	57.702	-13.969	1.00	0.00	C
ATOM	2858	CD2	PHE	302	22.947	59.783	-13.349	1.00	0.00	C
ATOM	2859	CE1	PHE	302	23.967	58.127	-15.275	1.00	0.00	C
ATOM	2860	CE2	PHE	302	23.016	60.214	-14.653	1.00	0.00	C
ATOM	2861	CZ	PHE	302	23.529	59.384	-15.618	1.00	0.00	C
ATOM	2862	C	PHE	302	24.512	57.955	-9.423	1.00	0.00	C
ATOM	2863	O	PHE	302	24.713	58.880	-8.638	1.00	0.00	O
ATOM	2864	N	PHE	303	24.224	56.719	-8.988	1.00	0.00	N
ATOM	2865	HN	PHE	303	24.171	55.957	-9.664	1.00	0.00	H
ATOM	2866	CA	PHE	303	23.988	56.436	-7.600	1.00	0.00	C
ATOM	2867	CB	PHE	303	23.773	54.929	-7.370	1.00	0.00	C
ATOM	2868	CG	PHE	303	23.313	54.687	-5.973	1.00	0.00	C
ATOM	2869	CD1	PHE	303	21.980	54.803	-5.657	1.00	0.00	C
ATOM	2870	CD2	PHE	303	24.201	54.345	-4.981	1.00	0.00	C
ATOM	2871	CE1	PHE	303	21.539	54.581	-4.373	1.00	0.00	C
ATOM	2872	CE2	PHE	303	23.769	54.120	-3.695	1.00	0.00	C
ATOM	2873	CZ	PHE	303	22.434	54.237	-3.389	1.00	0.00	C
ATOM	2874	C	PHE	303	25.189	56.885	-6.803	1.00	0.00	C
ATOM	2875	O	PHE	303	25.043	57.468	-5.729	1.00	0.00	O
ATOM	2876	N	SER	304	26.410	56.616	-7.307	1.00	0.00	N
ATOM	2877	HN	SER	304	26.468	56.141	-8.208	1.00	0.00	H
ATOM	2878	CA	SER	304	27.638	56.965	-6.638	1.00	0.00	C
ATOM	2879	CB	SER	304	28.892	56.446	-7.363	1.00	0.00	C
ATOM	2880	OG	SER	304	30.061	56.854	-6.666	1.00	0.00	O
ATOM	2881	HG	SER	304	30.835	56.534	-7.114	1.00	0.00	H
ATOM	2882	C	SER	304	27.808	58.451	-6.515	1.00	0.00	C
ATOM	2883	O	SER	304	28.232	58.940	-5.470	1.00	0.00	O

ATOM	2884	N	VAL	305	27.481	59.224	-7.569	1.00	0.00	N
ATOM	2885	HN	VAL	305	27.096	58.803	-8.415	1.00	0.00	H
ATOM	2886	CA	VAL	305	27.679	60.646	-7.493	1.00	0.00	C
ATOM	2887	CB	VAL	305	27.251	61.378	-8.741	1.00	0.00	C
ATOM	2888	CG1	VAL	305	25.720	61.414	-8.819	1.00	0.00	C
ATOM	2889	CG2	VAL	305	27.889	62.776	-8.741	1.00	0.00	C
ATOM	2890	C	VAL	305	26.845	61.131	-6.347	1.00	0.00	C
ATOM	2891	O	VAL	305	27.232	62.036	-5.608	1.00	0.00	O
ATOM	2892	N	LEU	306	25.683	60.484	-6.148	1.00	0.00	N
ATOM	2893	HN	LEU	306	25.447	59.693	-6.747	1.00	0.00	H
ATOM	2894	CA	LEU	306	24.767	60.874	-5.118	1.00	0.00	C
ATOM	2895	CB	LEU	306	23.557	59.932	-4.998	1.00	0.00	C
ATOM	2896	CG	LEU	306	22.502	60.432	-3.991	1.00	0.00	C
ATOM	2897	CD1	LEU	306	21.677	61.584	-4.585	1.00	0.00	C
ATOM	2898	CD2	LEU	306	21.646	59.288	-3.431	1.00	0.00	C
ATOM	2899	C	LEU	306	25.492	60.778	-3.813	1.00	0.00	C
ATOM	2900	O	LEU	306	25.404	61.672	-2.972	1.00	0.00	O
ATOM	2901	N	ILE	307	26.280	59.705	-3.636	1.00	0.00	N
ATOM	2902	HN	ILE	307	26.375	59.026	-4.391	1.00	0.00	H
ATOM	2903	CA	ILE	307	26.990	59.493	-2.410	1.00	0.00	C
ATOM	2904	CB	ILE	307	27.887	58.295	-2.451	1.00	0.00	C
ATOM	2905	CG1	ILE	307	27.055	57.028	-2.699	1.00	0.00	C
ATOM	2906	CG2	ILE	307	28.686	58.254	-1.137	1.00	0.00	C
ATOM	2907	CD1	ILE	307	27.904	55.810	-3.042	1.00	0.00	C
ATOM	2908	C	ILE	307	27.848	60.696	-2.200	1.00	0.00	C
ATOM	2909	O	ILE	307	28.059	61.131	-1.070	1.00	0.00	O
ATOM	2910	N	GLY	308	28.372	61.263	-3.301	1.00	0.00	N
ATOM	2911	HN	GLY	308	28.144	60.883	-4.220	1.00	0.00	H
ATOM	2912	CA	GLY	308	29.246	62.393	-3.201	1.00	0.00	C
ATOM	2913	C	GLY	308	28.560	63.550	-2.533	1.00	0.00	C
ATOM	2914	O	GLY	308	29.135	64.195	-1.656	1.00	0.00	O
ATOM	2915	N	ALA	309	27.303	63.847	-2.911	1.00	0.00	N
ATOM	2916	HN	ALA	309	26.805	63.256	-3.577	1.00	0.00	H
ATOM	2917	CA	ALA	309	26.678	65.014	-2.357	1.00	0.00	C
ATOM	2918	CB	ALA	309	25.254	65.231	-2.896	1.00	0.00	C
ATOM	2919	C	ALA	309	26.586	64.861	-0.871	1.00	0.00	C
ATOM	2920	O	ALA	309	26.998	65.741	-0.116	1.00	0.00	O
ATOM	2921	N	PHE	310	26.127	63.688	-0.407	1.00	0.00	N
ATOM	2922	HN	PHE	310	25.932	62.922	-1.052	1.00	0.00	H
ATOM	2923	CA	PHE	310	25.913	63.518	0.999	1.00	0.00	C
ATOM	2924	CB	PHE	310	25.305	62.154	1.357	1.00	0.00	C
ATOM	2925	CG	PHE	310	23.890	62.233	0.898	1.00	0.00	C
ATOM	2926	CD1	PHE	310	23.558	61.977	-0.411	1.00	0.00	C
ATOM	2927	CD2	PHE	310	22.894	62.583	1.779	1.00	0.00	C
ATOM	2928	CE1	PHE	310	22.250	62.056	-0.830	1.00	0.00	C
ATOM	2929	CE2	PHE	310	21.585	62.663	1.366	1.00	0.00	C
ATOM	2930	CZ	PHE	310	21.260	62.401	0.058	1.00	0.00	C
ATOM	2931	C	PHE	310	27.204	63.702	1.729	1.00	0.00	C
ATOM	2932	O	PHE	310	27.237	64.294	2.807	1.00	0.00	O
ATOM	2933	N	SER	311	28.309	63.211	1.147	1.00	0.00	N
ATOM	2934	HN	SER	311	28.238	62.775	0.227	1.00	0.00	H
ATOM	2935	CA	SER	311	29.589	63.287	1.794	1.00	0.00	C
ATOM	2936	CB	SER	311	30.710	62.726	0.908	1.00	0.00	C
ATOM	2937	OG	SER	311	30.395	61.402	0.511	1.00	0.00	O
ATOM	2938	HG	SER	311	31.089	61.055	-0.037	1.00	0.00	H
ATOM	2939	C	SER	311	29.940	64.720	2.037	1.00	0.00	C
ATOM	2940	O	SER	311	30.540	65.056	3.058	1.00	0.00	O
ATOM	2941	N	VAL	312	29.567	65.608	1.097	1.00	0.00	N
ATOM	2942	HN	VAL	312	29.038	65.293	0.284	1.00	0.00	H
ATOM	2943	CA	VAL	312	29.908	66.994	1.230	1.00	0.00	C
ATOM	2944	CB	VAL	312	29.389	67.832	0.097	1.00	0.00	C
ATOM	2945	CG1	VAL	312	29.723	69.306	0.383	1.00	0.00	C
ATOM	2946	CG2	VAL	312	29.981	67.301	-1.221	1.00	0.00	C
ATOM	2947	C	VAL	312	29.269	67.491	2.480	1.00	0.00	C
ATOM	2948	O	VAL	312	29.835	68.310	3.204	1.00	0.00	O
ATOM	2949	N	GLY	313	28.048	67.012	2.763	1.00	0.00	N
ATOM	2950	HN	GLY	313	27.606	66.313	2.165	1.00	0.00	H
ATOM	2951	CA	GLY	313	27.386	67.509	3.925	1.00	0.00	C
ATOM	2952	C	GLY	313	28.166	67.152	5.151	1.00	0.00	C
ATOM	2953	O	GLY	313	28.474	68.011	5.970	1.00	0.00	O
ATOM	2954	N	GLN	314	28.579	65.884	5.280	1.00	0.00	N
ATOM	2955	HN	GLN	314	28.445	65.226	4.512	1.00	0.00	H
ATOM	2956	CA	GLN	314	29.209	65.447	6.494	1.00	0.00	C
ATOM	2957	CB	GLN	314	29.571	63.958	6.437	1.00	0.00	C



ATOM	2958	CG	GLN	314	29.799	63.350	7.815	1.00	0.00	C
ATOM	2959	CD	GLN	314	28.435	63.284	8.486	1.00	0.00	C
ATOM	2960	OE1	GLN	314	27.613	64.187	8.335	1.00	0.00	O
ATOM	2961	NE2	GLN	314	28.178	62.180	9.237	1.00	0.00	N
ATOM	2962	1HE2	GLN	314	28.859	61.431	9.362	1.00	0.00	H
ATOM	2963	2HE2	GLN	314	27.264	62.136	9.687	1.00	0.00	H
ATOM	2964	C	GLN	314	30.462	66.233	6.699	1.00	0.00	C
ATOM	2965	O	GLN	314	30.807	66.611	7.821	1.00	0.00	O
ATOM	2966	N	ALA	315	31.168	66.525	5.598	1.00	0.00	N
ATOM	2967	HN	ALA	315	30.819	66.240	4.683	1.00	0.00	H
ATOM	2968	CA	ALA	315	32.405	67.232	5.697	1.00	0.00	C
ATOM	2969	CB	ALA	315	33.039	67.506	4.322	1.00	0.00	C
ATOM	2970	C	ALA	315	32.139	68.558	6.345	1.00	0.00	C
ATOM	2971	O	ALA	315	32.929	69.015	7.170	1.00	0.00	O
ATOM	2972	N	SER	316	31.006	69.205	6.010	1.00	0.00	N
ATOM	2973	HN	SER	316	30.324	68.758	5.397	1.00	0.00	H
ATOM	2974	CA	SER	316	30.761	70.527	6.518	1.00	0.00	C
ATOM	2975	CB	SER	316	29.458	71.165	5.995	1.00	0.00	C
ATOM	2976	OG	SER	316	29.521	71.336	4.588	1.00	0.00	O
ATOM	2977	HG	SER	316	28.718	71.729	4.266	1.00	0.00	H
ATOM	2978	C	SER	316	30.735	70.555	8.023	1.00	0.00	C
ATOM	2979	O	SER	316	31.486	71.340	8.600	1.00	0.00	O
ATOM	2980	N	PRO	317	29.958	69.772	8.732	1.00	0.00	N
ATOM	2981	CA	PRO	317	30.041	69.931	10.156	1.00	0.00	C
ATOM	2982	CD	PRO	317	28.585	69.491	8.344	1.00	0.00	C
ATOM	2983	CB	PRO	317	28.836	69.205	10.742	1.00	0.00	C
ATOM	2984	CG	PRO	317	27.773	69.382	9.646	1.00	0.00	C
ATOM	2985	C	PRO	317	31.352	69.578	10.775	1.00	0.00	C
ATOM	2986	O	PRO	317	31.699	70.168	11.795	1.00	0.00	O
ATOM	2987	N	SER	318	32.101	68.625	10.201	1.00	0.00	N
ATOM	2988	HN	SER	318	31.784	68.150	9.356	1.00	0.00	H
ATOM	2989	CA	SER	318	33.355	68.290	10.802	1.00	0.00	C
ATOM	2990	CB	SER	318	34.001	67.072	10.129	1.00	0.00	C
ATOM	2991	OG	SER	318	33.913	67.209	8.720	1.00	0.00	O
ATOM	2992	HG	SER	318	34.313	66.455	8.303	1.00	0.00	H
ATOM	2993	C	SER	318	34.252	69.489	10.714	1.00	0.00	C
ATOM	2994	O	SER	318	34.994	69.793	11.648	1.00	0.00	O
ATOM	2995	N	ILE	319	34.173	70.231	9.593	1.00	0.00	N
ATOM	2996	HN	ILE	319	33.516	69.962	8.861	1.00	0.00	H
ATOM	2997	CA	ILE	319	34.997	71.394	9.409	1.00	0.00	C
ATOM	2998	CB	ILE	319	34.823	72.034	8.062	1.00	0.00	C
ATOM	2999	CG1	ILE	319	35.393	71.129	6.959	1.00	0.00	C
ATOM	3000	CG2	ILE	319	35.479	73.424	8.112	1.00	0.00	C
ATOM	3001	CD1	ILE	319	36.904	70.920	7.082	1.00	0.00	C
ATOM	3002	C	ILE	319	34.651	72.411	10.443	1.00	0.00	C
ATOM	3003	O	ILE	319	35.538	73.029	11.032	1.00	0.00	O
ATOM	3004	N	GLU	320	33.345	72.594	10.710	1.00	0.00	N
ATOM	3005	HN	GLU	320	32.642	72.014	10.251	1.00	0.00	H
ATOM	3006	CA	GLU	320	32.946	73.605	11.640	1.00	0.00	C
ATOM	3007	CB	GLU	320	31.430	73.646	11.888	1.00	0.00	C
ATOM	3008	CG	GLU	320	30.899	75.013	12.338	1.00	0.00	C
ATOM	3009	CD	GLU	320	31.762	75.604	13.444	1.00	0.00	C
ATOM	3010	OE1	GLU	320	32.786	76.257	13.109	1.00	0.00	O
ATOM	3011	OE2	GLU	320	31.399	75.425	14.637	1.00	0.00	O
ATOM	3012	C	GLU	320	33.592	73.266	12.946	1.00	0.00	C
ATOM	3013	O	GLU	320	34.077	74.143	13.657	1.00	0.00	O
ATOM	3014	N	ALA	321	33.661	71.967	13.281	1.00	0.00	N
ATOM	3015	HN	ALA	321	33.316	71.254	12.638	1.00	0.00	H
ATOM	3016	CA	ALA	321	34.221	71.584	14.544	1.00	0.00	C
ATOM	3017	CB	ALA	321	34.275	70.058	14.726	1.00	0.00	C
ATOM	3018	C	ALA	321	35.627	72.092	14.618	1.00	0.00	C
ATOM	3019	O	ALA	321	36.032	72.667	15.628	1.00	0.00	O
ATOM	3020	N	PHE	322	36.400	71.935	13.529	1.00	0.00	N
ATOM	3021	HN	PHE	322	36.006	71.529	12.680	1.00	0.00	H
ATOM	3022	CA	PHE	322	37.776	72.336	13.558	1.00	0.00	C
ATOM	3023	CB	PHE	322	38.482	72.106	12.211	1.00	0.00	C
ATOM	3024	CG	PHE	322	39.915	72.498	12.352	1.00	0.00	C
ATOM	3025	CD1	PHE	322	40.314	73.809	12.218	1.00	0.00	C
ATOM	3026	CD2	PHE	322	40.867	71.539	12.609	1.00	0.00	C
ATOM	3027	CE1	PHE	322	41.641	74.154	12.345	1.00	0.00	C
ATOM	3028	CE2	PHE	322	42.193	71.877	12.738	1.00	0.00	C
ATOM	3029	CZ	PHE	322	42.583	73.188	12.605	1.00	0.00	C
ATOM	3030	C	PHE	322	37.850	73.798	13.849	1.00	0.00	C
ATOM	3031	O	PHE	322	38.507	74.216	14.798	1.00	0.00	O

ATOM	3032	N	ALA	323	37.110	74.616	13.084	1.00	0.00	N
ATOM	3033	HN	ALA	323	36.456	74.224	12.407	1.00	0.00	H
ATOM	3034	CA	ALA	323	37.234	76.038	13.214	1.00	0.00	C
ATOM	3035	CB	ALA	323	36.302	76.807	12.262	1.00	0.00	C
ATOM	3036	C	ALA	323	36.890	76.457	14.607	1.00	0.00	C
ATOM	3037	O	ALA	323	37.568	77.317	15.168	1.00	0.00	O
ATOM	3038	N	ASN	324	35.836	75.880	15.216	1.00	0.00	N
ATOM	3039	HN	ASN	324	35.313	75.127	14.769	1.00	0.00	H
ATOM	3040	CA	ASN	324	35.477	76.367	16.519	1.00	0.00	C
ATOM	3041	CB	ASN	324	34.096	75.919	17.050	1.00	0.00	C
ATOM	3042	CG	ASN	324	33.993	74.413	17.220	1.00	0.00	C
ATOM	3043	OD1	ASN	324	33.792	73.682	16.252	1.00	0.00	O
ATOM	3044	ND2	ASN	324	34.090	73.936	18.490	1.00	0.00	N
ATOM	3045	1HD2	ASN	324	34.257	74.542	19.293	1.00	0.00	H
ATOM	3046	2HD2	ASN	324	34.021	72.925	18.604	1.00	0.00	H
ATOM	3047	C	ASN	324	36.543	76.048	17.519	1.00	0.00	C
ATOM	3048	O	ASN	324	36.880	76.890	18.348	1.00	0.00	O
ATOM	3049	N	ALA	325	37.129	74.838	17.454	1.00	0.00	N
ATOM	3050	HN	ALA	325	36.851	74.175	16.730	1.00	0.00	H
ATOM	3051	CA	ALA	325	38.142	74.480	18.399	1.00	0.00	C
ATOM	3052	CB	ALA	325	38.709	73.071	18.160	1.00	0.00	C
ATOM	3053	C	ALA	325	39.262	75.444	18.227	1.00	0.00	C
ATOM	3054	O	ALA	325	39.878	75.861	19.207	1.00	0.00	O
ATOM	3055	N	ARG	326	39.565	75.814	16.968	1.00	0.00	N
ATOM	3056	HN	ARG	326	39.024	75.453	16.182	1.00	0.00	H
ATOM	3057	CA	ARG	326	40.651	76.717	16.742	1.00	0.00	C
ATOM	3058	CB	ARG	326	40.886	77.075	15.267	1.00	0.00	C
ATOM	3059	CG	ARG	326	42.214	77.811	15.062	1.00	0.00	C
ATOM	3060	CD	ARG	326	42.230	78.775	13.877	1.00	0.00	C
ATOM	3061	NE	ARG	326	41.603	78.098	12.713	1.00	0.00	N
ATOM	3062	HE	ARG	326	41.490	77.084	12.702	1.00	0.00	H
ATOM	3063	CZ	ARG	326	41.181	78.854	11.658	1.00	0.00	C
ATOM	3064	NH1	ARG	326	41.473	80.186	11.619	1.00	0.00	N
ATOM	3065	1HH1	ARG	326	42.024	80.613	12.364	1.00	0.00	H
ATOM	3066	2HH1	ARG	326	41.158	80.751	10.831	1.00	0.00	H
ATOM	3067	NH2	ARG	326	40.444	78.283	10.661	1.00	0.00	N
ATOM	3068	1HH2	ARG	326	40.226	77.287	10.690	1.00	0.00	H
ATOM	3069	2HH2	ARG	326	40.129	78.848	9.873	1.00	0.00	H
ATOM	3070	C	ARG	326	40.353	78.016	17.404	1.00	0.00	C
ATOM	3071	O	ARG	326	41.125	78.470	18.241	1.00	0.00	O
ATOM	3072	N	GLY	327	39.174	78.602	17.117	1.00	0.00	N
ATOM	3073	HN	GLY	327	38.488	78.106	16.548	1.00	0.00	H
ATOM	3074	CA	GLY	327	38.877	79.917	17.605	1.00	0.00	C
ATOM	3075	C	GLY	327	38.965	79.898	19.091	1.00	0.00	C
ATOM	3076	O	GLY	327	39.521	80.809	19.702	1.00	0.00	O
ATOM	3077	N	ALA	328	38.423	78.842	19.717	1.00	0.00	N
ATOM	3078	HN	ALA	328	38.003	78.078	19.188	1.00	0.00	H
ATOM	3079	CA	ALA	328	38.451	78.817	21.143	1.00	0.00	C
ATOM	3080	CB	ALA	328	37.728	77.584	21.707	1.00	0.00	C
ATOM	3081	C	ALA	328	39.862	78.765	21.643	1.00	0.00	C
ATOM	3082	O	ALA	328	40.321	79.682	22.325	1.00	0.00	O
ATOM	3083	N	ALA	329	40.619	77.725	21.242	1.00	0.00	N
ATOM	3084	HN	ALA	329	40.257	77.053	20.565	1.00	0.00	H
ATOM	3085	CA	ALA	329	41.936	77.577	21.778	1.00	0.00	C
ATOM	3086	CB	ALA	329	42.650	76.304	21.287	1.00	0.00	C
ATOM	3087	C	ALA	329	42.759	78.719	21.362	1.00	0.00	C
ATOM	3088	O	ALA	329	43.141	79.460	22.230	1.00	0.00	O
ATOM	3089	N	TYR	330	42.913	79.025	20.068	1.00	0.00	N
ATOM	3090	HN	TYR	330	42.328	78.567	19.369	1.00	0.00	H
ATOM	3091	CA	TYR	330	43.892	79.990	19.651	1.00	0.00	C
ATOM	3092	CB	TYR	330	43.921	80.146	18.123	1.00	0.00	C
ATOM	3093	CG	TYR	330	44.679	81.393	17.858	1.00	0.00	C
ATOM	3094	CD1	TYR	330	46.051	81.397	17.907	1.00	0.00	C
ATOM	3095	CD2	TYR	330	44.008	82.564	17.593	1.00	0.00	C
ATOM	3096	CE1	TYR	330	46.751	82.555	17.676	1.00	0.00	C
ATOM	3097	CE2	TYR	330	44.706	83.726	17.362	1.00	0.00	C
ATOM	3098	CZ	TYR	330	46.081	83.721	17.401	1.00	0.00	C
ATOM	3099	OH	TYR	330	46.806	84.908	17.166	1.00	0.00	O
ATOM	3100	HH	TYR	330	47.756	84.905	17.193	1.00	0.00	H
ATOM	3101	C	TYR	330	43.717	81.354	20.259	1.00	0.00	C
ATOM	3102	O	TYR	330	44.689	81.925	20.754	1.00	0.00	O
ATOM	3103	N	GLU	331	42.510	81.946	20.229	1.00	0.00	N
ATOM	3104	HN	GLU	331	41.692	81.467	19.853	1.00	0.00	H
ATOM	3105	CA	GLU	331	42.421	83.287	20.751	1.00	0.00	C

ATOM	3106	CB	GLU	331	41.074	83.956	20.453	1.00	0.00	C
ATOM	3107	CG	GLU	331	41.021	85.431	20.847	1.00	0.00	C
ATOM	3108	CD	GLU	331	39.660	85.951	20.414	1.00	0.00	C
ATOM	3109	OE1	GLU	331	39.012	85.263	19.581	1.00	0.00	O
ATOM	3110	OE2	GLU	331	39.249	87.035	20.905	1.00	0.00	O
ATOM	3111	C	GLU	331	42.628	83.289	22.237	1.00	0.00	C
ATOM	3112	O	GLU	331	43.414	84.063	22.777	1.00	0.00	O
ATOM	3113	N	ILE	332	41.928	82.372	22.917	1.00	0.00	N
ATOM	3114	HN	ILE	332	41.349	81.750	22.352	1.00	0.00	H
ATOM	3115	CA	ILE	332	41.883	82.147	24.333	1.00	0.00	C
ATOM	3116	CB	ILE	332	40.808	81.164	24.702	1.00	0.00	C
ATOM	3117	CG1	ILE	332	39.480	81.668	24.120	1.00	0.00	C
ATOM	3118	CG2	ILE	332	40.731	81.017	26.234	1.00	0.00	C
ATOM	3119	CD1	ILE	332	39.071	83.040	24.652	1.00	0.00	C
ATOM	3120	C	ILE	332	43.218	81.631	24.773	1.00	0.00	C
ATOM	3121	O	ILE	332	43.412	81.336	25.944	1.00	0.00	O
ATOM	3122	N	PHE	333	44.015	81.215	23.777	1.00	0.00	N
ATOM	3123	HN	PHE	333	43.596	81.280	22.849	1.00	0.00	H
ATOM	3124	CA	PHE	333	45.357	80.693	23.785	1.00	0.00	C
ATOM	3125	CB	PHE	333	45.770	80.061	22.443	1.00	0.00	C
ATOM	3126	CG	PHE	333	47.111	79.431	22.510	1.00	0.00	C
ATOM	3127	CD1	PHE	333	48.251	80.166	22.284	1.00	0.00	C
ATOM	3128	CD2	PHE	333	47.217	78.087	22.778	1.00	0.00	C
ATOM	3129	CE1	PHE	333	49.483	79.563	22.337	1.00	0.00	C
ATOM	3130	CE2	PHE	333	48.447	77.480	22.833	1.00	0.00	C
ATOM	3131	CZ	PHE	333	49.585	78.220	22.613	1.00	0.00	C
ATOM	3132	C	PHE	333	46.254	81.853	23.952	1.00	0.00	C
ATOM	3133	O	PHE	333	47.273	81.790	24.625	1.00	0.00	O
ATOM	3134	N	LYS	334	45.908	82.960	23.280	1.00	0.00	N
ATOM	3135	HN	LYS	334	45.127	82.944	22.624	1.00	0.00	H
ATOM	3136	CA	LYS	334	46.647	84.160	23.495	1.00	0.00	C
ATOM	3137	CB	LYS	334	46.038	85.367	22.772	1.00	0.00	C
ATOM	3138	CG	LYS	334	46.728	86.687	23.115	1.00	0.00	C
ATOM	3139	CD	LYS	334	46.123	87.888	22.390	1.00	0.00	C
ATOM	3140	CE	LYS	334	46.068	87.720	20.873	1.00	0.00	C
ATOM	3141	NZ	LYS	334	45.406	88.892	20.258	1.00	0.00	N
ATOM	3142	HZ1	LYS	334	45.369	88.780	19.245	1.00	0.00	H
ATOM	3143	HZ2	LYS	334	45.851	89.769	20.530	1.00	0.00	H
ATOM	3144	HZ3	LYS	334	44.483	89.063	20.657	1.00	0.00	H
ATOM	3145	C	LYS	334	46.388	84.403	24.928	1.00	0.00	C
ATOM	3146	O	LYS	334	47.199	84.939	25.675	1.00	0.00	O
ATOM	3147	N	ILE	335	45.167	84.049	25.325	1.00	0.00	N
ATOM	3148	HN	ILE	335	44.472	83.734	24.648	1.00	0.00	H
ATOM	3149	CA	ILE	335	44.854	84.118	26.695	1.00	0.00	C
ATOM	3150	CB	ILE	335	43.401	83.870	26.976	1.00	0.00	C
ATOM	3151	CG1	ILE	335	42.543	84.936	26.275	1.00	0.00	C
ATOM	3152	CG2	ILE	335	43.204	83.817	28.500	1.00	0.00	C
ATOM	3153	CD1	ILE	335	41.048	84.620	26.282	1.00	0.00	C
ATOM	3154	C	ILE	335	45.673	83.081	27.400	1.00	0.00	C
ATOM	3155	O	ILE	335	46.164	83.320	28.503	1.00	0.00	O
ATOM	3156	N	ILE	336	45.810	81.881	26.791	1.00	0.00	N
ATOM	3157	HN	ILE	336	45.451	81.746	25.846	1.00	0.00	H
ATOM	3158	CA	ILE	336	46.459	80.797	27.472	1.00	0.00	C
ATOM	3159	CB	ILE	336	46.280	79.482	26.766	1.00	0.00	C
ATOM	3160	CG1	ILE	336	44.791	79.102	26.731	1.00	0.00	C
ATOM	3161	CG2	ILE	336	47.157	78.422	27.455	1.00	0.00	C
ATOM	3162	CD1	ILE	336	44.476	77.961	25.769	1.00	0.00	C
ATOM	3163	C	ILE	336	47.939	81.007	27.663	1.00	0.00	C
ATOM	3164	O	ILE	336	48.367	81.382	28.752	1.00	0.00	O
ATOM	3165	N	ASP	337	48.737	80.943	26.575	1.00	0.00	N
ATOM	3166	HN	ASP	337	48.320	80.888	25.646	1.00	0.00	H
ATOM	3167	CA	ASP	337	50.164	80.951	26.713	1.00	0.00	C
ATOM	3168	CB	ASP	337	50.950	80.929	25.389	1.00	0.00	C
ATOM	3169	CG	ASP	337	51.012	79.506	24.853	1.00	0.00	C
ATOM	3170	OD1	ASP	337	50.281	78.631	25.389	1.00	0.00	O
ATOM	3171	OD2	ASP	337	51.797	79.276	23.896	1.00	0.00	O
ATOM	3172	C	ASP	337	50.632	82.194	27.450	1.00	0.00	C
ATOM	3173	O	ASP	337	51.259	82.089	28.502	1.00	0.00	O
ATOM	3174	N	ASN	338	50.233	83.397	26.994	1.00	0.00	N
ATOM	3175	HN	ASN	338	49.519	83.402	26.266	1.00	0.00	H
ATOM	3176	CA	ASN	338	50.726	84.688	27.444	1.00	0.00	C
ATOM	3177	CB	ASN	338	49.782	85.830	27.092	1.00	0.00	C
ATOM	3178	CG	ASN	338	49.758	85.880	25.593	1.00	0.00	C
ATOM	3179	OD1	ASN	338	49.616	84.858	24.921	1.00	0.00	O

ATOM	3180	ND2	ASN	338	49.903	87.114	25.055	1.00	0.00	N
ATOM	3181	1HD2	ASN	338	49.887	87.148	24.036	1.00	0.00	H
ATOM	3182	2HD2	ASN	338	50.021	87.961	25.612	1.00	0.00	H
ATOM	3183	C	ASN	338	50.938	84.822	28.955	1.00	0.00	C
ATOM	3184	O	ASN	338	50.090	84.430	29.753	1.00	0.00	O
ATOM	3185	N	LYS	339	52.125	85.386	29.340	1.00	0.00	N
ATOM	3186	HN	LYS	339	52.695	85.663	28.541	1.00	0.00	H
ATOM	3187	CA	LYS	339	52.782	85.691	30.618	1.00	0.00	C
ATOM	3188	CB	LYS	339	54.307	85.491	30.565	1.00	0.00	C
ATOM	3189	CG	LYS	339	54.746	84.117	31.092	1.00	0.00	C
ATOM	3190	CD	LYS	339	54.195	82.895	30.352	1.00	0.00	C
ATOM	3191	CE	LYS	339	54.602	81.558	30.991	1.00	0.00	C
ATOM	3192	NZ	LYS	339	53.893	81.353	32.279	1.00	0.00	N
ATOM	3193	HZ1	LYS	339	54.163	80.466	32.703	1.00	0.00	H
ATOM	3194	HZ2	LYS	339	52.882	81.427	32.169	1.00	0.00	H
ATOM	3195	HZ3	LYS	339	54.036	82.136	32.917	1.00	0.00	H
ATOM	3196	C	LYS	339	52.492	86.974	31.382	1.00	0.00	C
ATOM	3197	O	LYS	339	53.206	87.182	32.362	1.00	0.00	O
ATOM	3198	N	PRO	340	51.625	87.894	31.045	1.00	0.00	N
ATOM	3199	CA	PRO	340	51.639	89.217	31.678	1.00	0.00	C
ATOM	3200	CD	PRO	340	50.328	87.558	30.485	1.00	0.00	C
ATOM	3201	CB	PRO	340	50.297	89.848	31.304	1.00	0.00	C
ATOM	3202	CG	PRO	340	49.378	88.643	31.019	1.00	0.00	C
ATOM	3203	C	PRO	340	52.020	89.491	33.149	1.00	0.00	C
ATOM	3204	O	PRO	340	53.171	89.855	33.385	1.00	0.00	O
ATOM	3205	N	SER	341	51.105	89.375	34.141	1.00	0.00	N
ATOM	3206	HN	SER	341	50.137	89.231	33.854	1.00	0.00	H
ATOM	3207	CA	SER	341	51.359	89.435	35.578	1.00	0.00	C
ATOM	3208	CB	SER	341	52.000	88.140	36.091	1.00	0.00	C
ATOM	3209	OG	SER	341	53.298	88.004	35.533	1.00	0.00	O
ATOM	3210	HG	SER	341	53.695	87.202	35.851	1.00	0.00	H
ATOM	3211	C	SER	341	52.154	90.586	36.198	1.00	0.00	C
ATOM	3212	O	SER	341	52.804	90.368	37.201	1.00	0.00	O
ATOM	3213	N	ILE	342	52.184	91.835	35.737	1.00	0.00	N
ATOM	3214	HN	ILE	342	51.660	92.074	34.895	1.00	0.00	H
ATOM	3215	CA	ILE	342	52.960	92.868	36.423	1.00	0.00	C
ATOM	3216	CB	ILE	342	53.298	93.992	35.502	1.00	0.00	C
ATOM	3217	CG1	ILE	342	54.487	94.760	36.076	1.00	0.00	C
ATOM	3218	CG2	ILE	342	52.043	94.844	35.261	1.00	0.00	C
ATOM	3219	CD1	ILE	342	55.166	95.643	35.039	1.00	0.00	C
ATOM	3220	C	ILE	342	52.297	93.413	37.661	1.00	0.00	C
ATOM	3221	O	ILE	342	52.926	93.968	38.568	1.00	0.00	O
ATOM	3222	N	ASP	343	50.965	93.331	37.673	1.00	0.00	N
ATOM	3223	HN	ASP	343	50.527	92.784	36.932	1.00	0.00	H
ATOM	3224	CA	ASP	343	50.095	93.942	38.634	1.00	0.00	C
ATOM	3225	CB	ASP	343	48.611	93.802	38.252	1.00	0.00	C
ATOM	3226	CG	ASP	343	48.225	92.331	38.161	1.00	0.00	C
ATOM	3227	OD1	ASP	343	49.051	91.458	38.541	1.00	0.00	O
ATOM	3228	OD2	ASP	343	47.082	92.064	37.702	1.00	0.00	O
ATOM	3229	C	ASP	343	50.288	93.411	40.015	1.00	0.00	C
ATOM	3230	O	ASP	343	49.636	93.882	40.943	1.00	0.00	O
ATOM	3231	N	SER	344	51.092	92.354	40.196	1.00	0.00	N
ATOM	3232	HN	SER	344	51.594	91.935	39.413	1.00	0.00	H
ATOM	3233	CA	SER	344	51.226	91.830	41.521	1.00	0.00	C
ATOM	3234	CB	SER	344	50.052	90.909	41.902	1.00	0.00	C
ATOM	3235	OG	SER	344	49.932	89.837	40.979	1.00	0.00	O
ATOM	3236	HG	SER	344	49.208	89.269	41.214	1.00	0.00	H
ATOM	3237	C	SER	344	52.499	91.069	41.623	1.00	0.00	C
ATOM	3238	O	SER	344	53.385	91.482	42.371	1.00	0.00	O
ATOM	3239	N	TYR	345	52.587	89.907	40.928	1.00	0.00	N
ATOM	3240	HN	TYR	345	51.776	89.550	40.424	1.00	0.00	H
ATOM	3241	CA	TYR	345	53.820	89.185	40.905	1.00	0.00	C
ATOM	3242	CB	TYR	345	55.019	90.122	40.649	1.00	0.00	C
ATOM	3243	CG	TYR	345	56.184	89.336	40.168	1.00	0.00	C
ATOM	3244	CD1	TYR	345	55.982	88.158	39.491	1.00	0.00	C
ATOM	3245	CD2	TYR	345	57.470	89.760	40.406	1.00	0.00	C
ATOM	3246	CE1	TYR	345	57.047	87.421	39.033	1.00	0.00	C
ATOM	3247	CE2	TYR	345	58.539	89.028	39.944	1.00	0.00	C
ATOM	3248	CZ	TYR	345	58.328	87.857	39.258	1.00	0.00	C
ATOM	3249	OH	TYR	345	59.418	87.098	38.783	1.00	0.00	O
ATOM	3250	HH	TYR	345	60.305	87.400	38.939	1.00	0.00	H
ATOM	3251	C	TYR	345	53.917	88.464	42.207	1.00	0.00	C
ATOM	3252	O	TYR	345	53.052	88.626	43.063	1.00	0.00	O
ATOM	3253	N	SER	346	54.834	87.486	42.310	1.00	0.00	N

ATOM	3254	HN	SER	346	55.342	87.167	41.485	1.00	0.00	H
ATOM	3255	CA	SER	346	55.088	86.901	43.581	1.00	0.00	C
ATOM	3256	CB	SER	346	54.474	85.504	43.752	1.00	0.00	C
ATOM	3257	OG	SER	346	53.059	85.603	43.802	1.00	0.00	O
ATOM	3258	HG	SER	346	52.679	84.739	43.908	1.00	0.00	H
ATOM	3259	C	SER	346	56.567	86.750	43.634	1.00	0.00	C
ATOM	3260	O	SER	346	57.071	85.670	43.334	1.00	0.00	O
ATOM	3261	N	LYS	347	57.275	87.829	44.050	1.00	0.00	N
ATOM	3262	HN	LYS	347	56.760	88.650	44.368	1.00	0.00	H
ATOM	3263	CA	LYS	347	58.712	87.880	44.067	1.00	0.00	C
ATOM	3264	CB	LYS	347	59.258	88.265	42.677	1.00	0.00	C
ATOM	3265	CG	LYS	347	60.770	88.248	42.408	1.00	0.00	C
ATOM	3266	CD	LYS	347	61.503	89.544	42.748	1.00	0.00	C
ATOM	3267	CE	LYS	347	60.878	90.772	42.081	1.00	0.00	C
ATOM	3268	NZ	LYS	347	61.588	91.998	42.512	1.00	0.00	N
ATOM	3269	HZ1	LYS	347	61.172	92.816	42.068	1.00	0.00	H
ATOM	3270	HZ2	LYS	347	62.592	91.939	42.341	1.00	0.00	H
ATOM	3271	HZ3	LYS	347	61.616	92.087	43.528	1.00	0.00	H
ATOM	3272	C	LYS	347	59.127	88.867	45.182	1.00	0.00	C
ATOM	3273	O	LYS	347	58.268	89.318	45.933	1.00	0.00	O
ATOM	3274	N	SER	348	60.431	89.260	45.317	1.00	0.00	N
ATOM	3275	HN	SER	348	61.054	88.971	44.563	1.00	0.00	H
ATOM	3276	CA	SER	348	61.064	90.039	46.393	1.00	0.00	C
ATOM	3277	CB	SER	348	62.518	90.430	46.077	1.00	0.00	C
ATOM	3278	OG	SER	348	62.551	91.356	45.000	1.00	0.00	O
ATOM	3279	HG	SER	348	63.449	91.597	44.805	1.00	0.00	H
ATOM	3280	C	SER	348	60.344	91.327	46.783	1.00	0.00	C
ATOM	3281	O	SER	348	59.256	91.624	46.306	1.00	0.00	O
ATOM	3282	N	GLY	349	60.891	92.124	47.745	1.00	0.00	N
ATOM	3283	HN	GLY	349	61.769	91.880	48.203	1.00	0.00	H
ATOM	3284	CA	GLY	349	60.167	93.337	48.089	1.00	0.00	C
ATOM	3285	C	GLY	349	60.601	93.970	49.408	1.00	0.00	C
ATOM	3286	O	GLY	349	61.772	93.919	49.786	1.00	0.00	O
ATOM	3287	N	HIS	350	59.623	94.616	50.115	1.00	0.00	N
ATOM	3288	HN	HIS	350	58.678	94.541	49.738	1.00	0.00	H
ATOM	3289	CA	HIS	350	59.760	95.400	51.342	1.00	0.00	C
ATOM	3290	ND1	HIS	350	58.606	98.980	52.342	1.00	0.00	N
ATOM	3291	HD1	HIS	350	57.959	99.345	51.643	1.00	0.00	H
ATOM	3292	CG	HIS	350	59.237	97.754	52.316	1.00	0.00	C
ATOM	3293	CB	HIS	350	59.045	96.764	51.203	1.00	0.00	C
ATOM	3294	NE2	HIS	350	59.855	98.876	54.176	1.00	0.00	N
ATOM	3295	HE2	HIS	350	60.303	99.116	55.060	1.00	0.00	H
ATOM	3296	CD2	HIS	350	59.998	97.710	53.445	1.00	0.00	C
ATOM	3297	CE1	HIS	350	59.009	99.609	53.474	1.00	0.00	C
ATOM	3298	C	HIS	350	59.116	94.666	52.509	1.00	0.00	C
ATOM	3299	O	HIS	350	58.204	93.874	52.292	1.00	0.00	O
ATOM	3300	N	LYS	351	59.567	94.900	53.781	1.00	0.00	N
ATOM	3301	HN	LYS	351	60.294	95.598	53.939	1.00	0.00	H
ATOM	3302	CA	LYS	351	59.017	94.160	54.913	1.00	0.00	C
ATOM	3303	CB	LYS	351	60.015	93.131	55.471	1.00	0.00	C
ATOM	3304	CG	LYS	351	60.605	92.169	54.438	1.00	0.00	C
ATOM	3305	CD	LYS	351	59.594	91.243	53.764	1.00	0.00	C
ATOM	3306	CE	LYS	351	60.254	90.249	52.810	1.00	0.00	C
ATOM	3307	NZ	LYS	351	59.229	89.441	52.110	1.00	0.00	N
ATOM	3308	HZ1	LYS	351	59.670	88.777	51.473	1.00	0.00	H
ATOM	3309	HZ2	LYS	351	58.545	90.028	51.632	1.00	0.00	H
ATOM	3310	HZ3	LYS	351	58.600	88.977	52.765	1.00	0.00	H
ATOM	3311	C	LYS	351	58.689	95.027	56.130	1.00	0.00	C
ATOM	3312	O	LYS	351	59.607	95.423	56.850	1.00	0.00	O
ATOM	3313	N	PRO	352	57.434	95.353	56.415	1.00	0.00	N
ATOM	3314	CA	PRO	352	57.116	96.056	57.650	1.00	0.00	C
ATOM	3315	CD	PRO	352	56.520	95.721	55.351	1.00	0.00	C
ATOM	3316	CB	PRO	352	55.783	96.752	57.433	1.00	0.00	C
ATOM	3317	CG	PRO	352	55.701	96.895	55.911	1.00	0.00	C
ATOM	3318	C	PRO	352	57.031	95.090	58.786	1.00	0.00	C
ATOM	3319	O	PRO	352	55.942	94.579	59.041	1.00	0.00	O
ATOM	3320	N	ASP	353	58.125	94.910	59.531	1.00	0.00	N
ATOM	3321	HN	ASP	353	58.943	95.483	59.323	1.00	0.00	H
ATOM	3322	CA	ASP	353	58.224	93.964	60.604	1.00	0.00	C
ATOM	3323	CB	ASP	353	59.687	93.637	60.929	1.00	0.00	C
ATOM	3324	CG	ASP	353	60.249	92.968	59.679	1.00	0.00	C
ATOM	3325	OD1	ASP	353	59.462	92.764	58.714	1.00	0.00	O
ATOM	3326	OD2	ASP	353	61.471	92.665	59.663	1.00	0.00	O
ATOM	3327	C	ASP	353	57.539	94.474	61.828	1.00	0.00	C

ATOM	3328	O	ASP	353	57.224	93.718	62.746	1.00	0.00	O
ATOM	3329	N	ASN	354	57.288	95.790	61.854	1.00	0.00	N
ATOM	3330	HN	ASN	354	57.475	96.334	61.011	1.00	0.00	H
ATOM	3331	CA	ASN	354	56.773	96.472	62.997	1.00	0.00	C
ATOM	3332	CB	ASN	354	56.437	97.938	62.680	1.00	0.00	C
ATOM	3333	CG	ASN	354	55.482	97.952	61.493	1.00	0.00	C
ATOM	3334	OD1	ASN	354	54.320	97.567	61.601	1.00	0.00	O
ATOM	3335	ND2	ASN	354	55.992	98.413	60.319	1.00	0.00	N
ATOM	3336	1HD2	ASN	354	56.956	98.733	60.229	1.00	0.00	H
ATOM	3337	2HD2	ASN	354	55.353	98.422	59.524	1.00	0.00	H
ATOM	3338	C	ASN	354	55.539	95.792	63.470	1.00	0.00	C
ATOM	3339	O	ASN	354	55.263	95.832	64.668	1.00	0.00	O
ATOM	3340	N	ILE	355	54.762	95.171	62.554	1.00	0.00	N
ATOM	3341	HN	ILE	355	55.063	95.155	61.580	1.00	0.00	H
ATOM	3342	CA	ILE	355	53.525	94.533	62.912	1.00	0.00	C
ATOM	3343	CB	ILE	355	53.624	93.194	63.606	1.00	0.00	C
ATOM	3344	CG1	ILE	355	54.482	93.238	64.875	1.00	0.00	C
ATOM	3345	CG2	ILE	355	54.062	92.160	62.563	1.00	0.00	C
ATOM	3346	CD1	ILE	355	54.586	91.899	65.589	1.00	0.00	C
ATOM	3347	C	ILE	355	52.588	95.505	63.578	1.00	0.00	C
ATOM	3348	O	ILE	355	52.976	96.604	63.946	1.00	0.00	O
ATOM	3349	N	LYS	356	51.278	95.201	63.601	1.00	0.00	N
ATOM	3350	HN	LYS	356	50.951	94.348	63.147	1.00	0.00	H
ATOM	3351	CA	LYS	356	50.328	96.066	64.259	1.00	0.00	C
ATOM	3352	CB	LYS	356	50.715	96.412	65.710	1.00	0.00	C
ATOM	3353	CG	LYS	356	50.609	95.246	66.697	1.00	0.00	C
ATOM	3354	CD	LYS	356	49.178	94.746	66.916	1.00	0.00	C
ATOM	3355	CE	LYS	356	49.076	93.592	67.916	1.00	0.00	C
ATOM	3356	NZ	LYS	356	49.587	94.021	69.238	1.00	0.00	N
ATOM	3357	HZ1	LYS	356	49.519	93.252	69.904	1.00	0.00	H
ATOM	3358	HZ2	LYS	356	49.118	94.862	69.575	1.00	0.00	H
ATOM	3359	HZ3	LYS	356	50.535	94.393	69.179	1.00	0.00	H
ATOM	3360	C	LYS	356	50.159	97.356	63.502	1.00	0.00	C
ATOM	3361	O	LYS	356	51.106	97.948	62.986	1.00	0.00	O
ATOM	3362	N	GLY	357	48.908	97.847	63.411	1.00	0.00	N
ATOM	3363	HN	GLY	357	48.118	97.348	63.819	1.00	0.00	H
ATOM	3364	CA	GLY	357	48.719	99.093	62.724	1.00	0.00	C
ATOM	3365	C	GLY	357	47.276	99.258	62.367	1.00	0.00	C
ATOM	3366	O	GLY	357	46.458	98.355	62.534	1.00	0.00	O
ATOM	3367	N	ASN	358	46.935	100.442	61.827	1.00	0.00	N
ATOM	3368	HN	ASN	358	47.659	101.138	61.648	1.00	0.00	H
ATOM	3369	CA	ASN	358	45.571	100.745	61.498	1.00	0.00	C
ATOM	3370	CB	ASN	358	45.123	102.122	62.016	1.00	0.00	C
ATOM	3371	CG	ASN	358	45.224	102.120	63.534	1.00	0.00	C
ATOM	3372	OD1	ASN	358	46.272	101.811	64.099	1.00	0.00	O
ATOM	3373	ND2	ASN	358	44.108	102.486	64.217	1.00	0.00	N
ATOM	3374	1HD2	ASN	358	44.176	102.485	65.235	1.00	0.00	H
ATOM	3375	2HD2	ASN	358	43.239	102.742	63.748	1.00	0.00	H
ATOM	3376	C	ASN	358	45.460	100.806	60.015	1.00	0.00	C
ATOM	3377	O	ASN	358	46.382	101.230	59.322	1.00	0.00	O
ATOM	3378	N	LEU	359	44.312	100.345	59.491	1.00	0.00	N
ATOM	3379	HN	LEU	359	43.606	99.943	60.108	1.00	0.00	H
ATOM	3380	CA	LEU	359	44.062	100.408	58.082	1.00	0.00	C
ATOM	3381	CB	LEU	359	42.853	99.560	57.660	1.00	0.00	C
ATOM	3382	CG	LEU	359	43.052	98.047	57.864	1.00	0.00	C
ATOM	3383	CD1	LEU	359	43.301	97.707	59.341	1.00	0.00	C
ATOM	3384	CD2	LEU	359	41.884	97.248	57.265	1.00	0.00	C
ATOM	3385	C	LEU	359	43.716	101.826	57.790	1.00	0.00	C
ATOM	3386	O	LEU	359	43.069	102.484	58.601	1.00	0.00	O
ATOM	3387	N	GLU	360	44.155	102.352	56.632	1.00	0.00	N
ATOM	3388	HN	GLU	360	44.709	101.796	55.981	1.00	0.00	H
ATOM	3389	CA	GLU	360	43.824	103.714	56.338	1.00	0.00	C
ATOM	3390	CB	GLU	360	45.036	104.658	56.463	1.00	0.00	C
ATOM	3391	CG	GLU	360	45.815	104.543	57.781	1.00	0.00	C
ATOM	3392	CD	GLU	360	44.937	104.943	58.959	1.00	0.00	C
ATOM	3393	OE1	GLU	360	43.688	104.929	58.806	1.00	0.00	O
ATOM	3394	OE2	GLU	360	45.511	105.254	60.038	1.00	0.00	O
ATOM	3395	C	GLU	360	43.424	103.765	54.899	1.00	0.00	C
ATOM	3396	O	GLU	360	44.279	103.727	54.019	1.00	0.00	O
ATOM	3397	N	PHE	361	42.114	103.864	54.607	1.00	0.00	N
ATOM	3398	HN	PHE	361	41.412	103.851	55.347	1.00	0.00	H
ATOM	3399	CA	PHE	361	41.729	103.988	53.232	1.00	0.00	C
ATOM	3400	CB	PHE	361	40.377	103.326	52.918	1.00	0.00	C
ATOM	3401	CG	PHE	361	40.586	101.851	52.890	1.00	0.00	C

ATOM	3402	CD1	PHE	361	40.592	101.105	54.047	1.00	0.00	C
ATOM	3403	CD2	PHE	361	40.796	101.213	51.689	1.00	0.00	C
ATOM	3404	CE1	PHE	361	40.789	99.744	54.001	1.00	0.00	C
ATOM	3405	CE2	PHE	361	40.992	99.853	51.638	1.00	0.00	C
ATOM	3406	CZ	PHE	361	40.989	99.114	52.796	1.00	0.00	C
ATOM	3407	C	PHE	361	41.591	105.456	53.015	1.00	0.00	C
ATOM	3408	O	PHE	361	40.632	106.068	53.481	1.00	0.00	O
ATOM	3409	N	ARG	362	42.549	106.072	52.294	1.00	0.00	N
ATOM	3410	HN	ARG	362	43.293	105.546	51.835	1.00	0.00	H
ATOM	3411	CA	ARG	362	42.474	107.497	52.203	1.00	0.00	C
ATOM	3412	CB	ARG	362	43.755	108.196	52.696	1.00	0.00	C
ATOM	3413	CG	ARG	362	44.080	107.897	54.161	1.00	0.00	C
ATOM	3414	CD	ARG	362	43.807	109.046	55.135	1.00	0.00	C
ATOM	3415	NE	ARG	362	44.089	108.529	56.505	1.00	0.00	N
ATOM	3416	HE	ARG	362	43.944	107.540	56.709	1.00	0.00	H
ATOM	3417	CZ	ARG	362	44.538	109.361	57.490	1.00	0.00	C
ATOM	3418	NH1	ARG	362	44.776	110.679	57.224	1.00	0.00	N
ATOM	3419	1HH1	ARG	362	45.111	111.301	57.960	1.00	0.00	H
ATOM	3420	2HH1	ARG	362	44.618	111.045	56.285	1.00	0.00	H
ATOM	3421	NH2	ARG	362	44.749	108.871	58.748	1.00	0.00	N
ATOM	3422	1HH2	ARG	362	45.084	109.493	59.484	1.00	0.00	H
ATOM	3423	2HH2	ARG	362	44.571	107.886	58.947	1.00	0.00	H
ATOM	3424	C	ARG	362	42.254	107.929	50.792	1.00	0.00	C
ATOM	3425	O	ARG	362	43.109	107.722	49.931	1.00	0.00	O
ATOM	3426	N	ASN	363	41.076	108.550	50.555	1.00	0.00	N
ATOM	3427	HN	ASN	363	40.405	108.586	51.322	1.00	0.00	H
ATOM	3428	CA	ASN	363	40.689	109.163	49.314	1.00	0.00	C
ATOM	3429	CB	ASN	363	41.298	110.565	49.144	1.00	0.00	C
ATOM	3430	CG	ASN	363	40.797	111.181	47.847	1.00	0.00	C
ATOM	3431	OD1	ASN	363	39.816	110.732	47.258	1.00	0.00	O
ATOM	3432	ND2	ASN	363	41.504	112.248	47.387	1.00	0.00	N
ATOM	3433	1HD2	ASN	363	41.168	112.661	46.517	1.00	0.00	H
ATOM	3434	2HD2	ASN	363	42.318	112.621	47.876	1.00	0.00	H
ATOM	3435	C	ASN	363	41.111	108.314	48.162	1.00	0.00	C
ATOM	3436	O	ASN	363	41.970	108.720	47.381	1.00	0.00	O
ATOM	3437	N	VAL	364	40.533	107.105	48.024	1.00	0.00	N
ATOM	3438	HN	VAL	364	39.796	106.801	48.660	1.00	0.00	H
ATOM	3439	CA	VAL	364	40.981	106.258	46.960	1.00	0.00	C
ATOM	3440	CB	VAL	364	41.395	104.897	47.440	1.00	0.00	C
ATOM	3441	CG1	VAL	364	40.177	104.194	48.062	1.00	0.00	C
ATOM	3442	CG2	VAL	364	42.030	104.135	46.267	1.00	0.00	C
ATOM	3443	C	VAL	364	39.913	106.087	45.930	1.00	0.00	C
ATOM	3444	O	VAL	364	38.789	105.674	46.215	1.00	0.00	O
ATOM	3445	N	HIS	365	40.278	106.405	44.676	1.00	0.00	N
ATOM	3446	HN	HIS	365	41.213	106.780	44.518	1.00	0.00	H
ATOM	3447	CA	HIS	365	39.409	106.238	43.560	1.00	0.00	C
ATOM	3448	ND1	HIS	365	39.711	109.375	44.176	1.00	0.00	N
ATOM	3449	HD1	HIS	365	40.615	109.115	44.570	1.00	0.00	H
ATOM	3450	CG	HIS	365	39.012	108.694	43.204	1.00	0.00	C
ATOM	3451	CB	HIS	365	39.480	107.416	42.575	1.00	0.00	C
ATOM	3452	NE2	HIS	365	37.840	110.522	43.819	1.00	0.00	N
ATOM	3453	HE2	HIS	365	37.110	111.232	43.879	1.00	0.00	H
ATOM	3454	CD2	HIS	365	37.872	109.410	42.997	1.00	0.00	C
ATOM	3455	CE1	HIS	365	38.965	110.459	44.509	1.00	0.00	C
ATOM	3456	C	HIS	365	39.957	105.033	42.881	1.00	0.00	C
ATOM	3457	O	HIS	365	41.165	104.800	42.908	1.00	0.00	O
ATOM	3458	N	PHE	366	39.077	104.194	42.314	1.00	0.00	N
ATOM	3459	HN	PHE	366	38.077	104.395	42.339	1.00	0.00	H
ATOM	3460	CA	PHE	366	39.565	103.020	41.678	1.00	0.00	C
ATOM	3461	CB	PHE	366	39.877	101.896	42.685	1.00	0.00	C
ATOM	3462	CG	PHE	366	40.090	100.639	41.920	1.00	0.00	C
ATOM	3463	CD1	PHE	366	41.260	100.408	41.235	1.00	0.00	C
ATOM	3464	CD2	PHE	366	39.102	99.682	41.901	1.00	0.00	C
ATOM	3465	CE1	PHE	366	41.435	99.239	40.533	1.00	0.00	C
ATOM	3466	CE2	PHE	366	39.272	98.512	41.200	1.00	0.00	C
ATOM	3467	CZ	PHE	366	40.440	98.291	40.512	1.00	0.00	C
ATOM	3468	C	PHE	366	38.519	102.542	40.753	1.00	0.00	C
ATOM	3469	O	PHE	366	37.332	102.507	41.071	1.00	0.00	O
ATOM	3470	N	SER	367	38.962	102.157	39.558	1.00	0.00	N
ATOM	3471	HN	SER	367	39.955	102.239	39.339	1.00	0.00	H
ATOM	3472	CA	SER	367	38.074	101.636	38.587	1.00	0.00	C
ATOM	3473	CB	SER	367	38.051	102.471	37.299	1.00	0.00	C
ATOM	3474	OG	SER	367	37.189	101.880	36.341	1.00	0.00	O
ATOM	3475	HG	SER	367	37.175	102.397	35.544	1.00	0.00	H

ATOM	3476	C	SER	367	38.676	100.330	38.266	1.00	0.00	C
ATOM	3477	O	SER	367	39.893	100.160	38.349	1.00	0.00	O
ATOM	3478	N	TYR	368	37.832	99.354	37.935	1.00	0.00	N
ATOM	3479	HN	TYR	368	36.823	99.500	37.953	1.00	0.00	H
ATOM	3480	CA	TYR	368	38.388	98.102	37.556	1.00	0.00	C
ATOM	3481	CB	TYR	368	37.362	97.039	37.131	1.00	0.00	C
ATOM	3482	CG	TYR	368	36.897	96.381	38.379	1.00	0.00	C
ATOM	3483	CD1	TYR	368	35.880	96.890	39.152	1.00	0.00	C
ATOM	3484	CD2	TYR	368	37.526	95.228	38.775	1.00	0.00	C
ATOM	3485	CE1	TYR	368	35.492	96.236	40.300	1.00	0.00	C
ATOM	3486	CE2	TYR	368	37.148	94.571	39.916	1.00	0.00	C
ATOM	3487	CZ	TYR	368	36.128	95.076	40.678	1.00	0.00	C
ATOM	3488	OH	TYR	368	35.747	94.391	41.847	1.00	0.00	O
ATOM	3489	HH	TYR	368	36.186	93.590	42.108	1.00	0.00	H
ATOM	3490	C	TYR	368	39.387	98.280	36.444	1.00	0.00	C
ATOM	3491	O	TYR	368	39.383	99.278	35.721	1.00	0.00	O
ATOM	3492	N	PRO	369	40.304	97.353	36.341	1.00	0.00	N
ATOM	3493	CA	PRO	369	41.359	97.394	35.372	1.00	0.00	C
ATOM	3494	CD	PRO	369	40.251	96.098	37.062	1.00	0.00	C
ATOM	3495	CB	PRO	369	42.179	96.127	35.580	1.00	0.00	C
ATOM	3496	CG	PRO	369	41.195	95.181	36.274	1.00	0.00	C
ATOM	3497	C	PRO	369	40.803	97.555	34.003	1.00	0.00	C
ATOM	3498	O	PRO	369	41.542	97.966	33.112	1.00	0.00	O
ATOM	3499	N	SER	370	39.533	97.189	33.778	1.00	0.00	N
ATOM	3500	HN	SER	370	38.980	96.704	34.485	1.00	0.00	H
ATOM	3501	CA	SER	370	38.997	97.515	32.496	1.00	0.00	C
ATOM	3502	CB	SER	370	37.593	96.933	32.295	1.00	0.00	C
ATOM	3503	OG	SER	370	37.106	97.264	31.008	1.00	0.00	O
ATOM	3504	HG	SER	370	36.236	96.903	30.883	1.00	0.00	H
ATOM	3505	C	SER	370	38.918	99.007	32.530	1.00	0.00	C
ATOM	3506	O	SER	370	38.272	99.591	33.389	1.00	0.00	O
ATOM	3507	N	ARG	371	39.520	99.690	31.560	1.00	0.00	N
ATOM	3508	HN	ARG	371	39.897	99.202	30.748	1.00	0.00	H
ATOM	3509	CA	ARG	371	39.636	101.121	31.663	1.00	0.00	C
ATOM	3510	CB	ARG	371	40.377	101.775	30.488	1.00	0.00	C
ATOM	3511	CG	ARG	371	41.861	102.028	30.746	1.00	0.00	C
ATOM	3512	CD	ARG	371	42.087	103.448	31.272	1.00	0.00	C
ATOM	3513	NE	ARG	371	43.549	103.731	31.293	1.00	0.00	N
ATOM	3514	HE	ARG	371	44.223	102.966	31.275	1.00	0.00	H
ATOM	3515	CZ	ARG	371	43.977	105.027	31.337	1.00	0.00	C
ATOM	3516	NH1	ARG	371	43.069	106.046	31.361	1.00	0.00	N
ATOM	3517	1HH1	ARG	371	42.071	105.836	31.351	1.00	0.00	H
ATOM	3518	2HH1	ARG	371	43.389	107.014	31.394	1.00	0.00	H
ATOM	3519	NH2	ARG	371	45.313	105.308	31.351	1.00	0.00	N
ATOM	3520	1HH2	ARG	371	45.991	104.547	31.333	1.00	0.00	H
ATOM	3521	2HH2	ARG	371	45.633	106.276	31.384	1.00	0.00	H
ATOM	3522	C	ARG	371	38.332	101.863	31.787	1.00	0.00	C
ATOM	3523	O	ARG	371	38.293	102.916	32.420	1.00	0.00	O
ATOM	3524	N	LYS	372	37.261	101.402	31.125	1.00	0.00	N
ATOM	3525	HN	LYS	372	37.331	100.502	30.649	1.00	0.00	H
ATOM	3526	CA	LYS	372	36.014	102.125	31.057	1.00	0.00	C
ATOM	3527	CB	LYS	372	35.121	101.645	29.895	1.00	0.00	C
ATOM	3528	CG	LYS	372	34.940	100.128	29.810	1.00	0.00	C
ATOM	3529	CD	LYS	372	36.227	99.386	29.444	1.00	0.00	C
ATOM	3530	CE	LYS	372	36.619	99.509	27.973	1.00	0.00	C
ATOM	3531	NZ	LYS	372	35.875	98.518	27.168	1.00	0.00	N
ATOM	3532	HZ1	LYS	372	36.137	98.600	26.186	1.00	0.00	H
ATOM	3533	HZ2	LYS	372	34.867	98.595	27.303	1.00	0.00	H
ATOM	3534	HZ3	LYS	372	36.000	97.569	27.519	1.00	0.00	H
ATOM	3535	C	LYS	372	35.153	102.191	32.289	1.00	0.00	C
ATOM	3536	O	LYS	372	34.607	103.257	32.572	1.00	0.00	O
ATOM	3537	N	GLU	373	35.019	101.091	33.061	1.00	0.00	N
ATOM	3538	HN	GLU	373	35.639	100.295	32.909	1.00	0.00	H
ATOM	3539	CA	GLU	373	34.016	101.018	34.098	1.00	0.00	C
ATOM	3540	CB	GLU	373	34.099	99.783	35.019	1.00	0.00	C
ATOM	3541	CG	GLU	373	34.026	98.419	34.332	1.00	0.00	C
ATOM	3542	CD	GLU	373	35.425	97.822	34.382	1.00	0.00	C
ATOM	3543	OE1	GLU	373	36.372	98.576	34.719	1.00	0.00	O
ATOM	3544	OE2	GLU	373	35.560	96.597	34.108	1.00	0.00	O
ATOM	3545	C	GLU	373	34.104	102.182	35.027	1.00	0.00	C
ATOM	3546	O	GLU	373	35.129	102.853	35.138	1.00	0.00	O
ATOM	3547	N	VAL	374	32.972	102.471	35.696	1.00	0.00	N
ATOM	3548	HN	VAL	374	32.135	101.908	35.544	1.00	0.00	H
ATOM	3549	CA	VAL	374	32.937	103.561	36.617	1.00	0.00	C



ATOM	3550	CB	VAL	374	31.592	103.789	37.242	1.00	0.00	C
ATOM	3551	CG1	VAL	374	31.231	102.559	38.094	1.00	0.00	C
ATOM	3552	CG2	VAL	374	31.648	105.099	38.044	1.00	0.00	C
ATOM	3553	C	VAL	374	33.888	103.244	37.716	1.00	0.00	C
ATOM	3554	O	VAL	374	34.036	102.090	38.116	1.00	0.00	O
ATOM	3555	N	LYS	375	34.589	104.275	38.218	1.00	0.00	N
ATOM	3556	HN	LYS	375	34.478	105.219	37.849	1.00	0.00	H
ATOM	3557	CA	LYS	375	35.494	104.001	39.286	1.00	0.00	C
ATOM	3558	CB	LYS	375	36.273	105.249	39.739	1.00	0.00	C
ATOM	3559	CG	LYS	375	35.367	106.458	39.984	1.00	0.00	C
ATOM	3560	CD	LYS	375	36.033	107.596	40.757	1.00	0.00	C
ATOM	3561	CE	LYS	375	35.207	108.882	40.736	1.00	0.00	C
ATOM	3562	NZ	LYS	375	33.808	108.584	41.116	1.00	0.00	N
ATOM	3563	HZ1	LYS	375	33.257	109.442	41.102	1.00	0.00	H
ATOM	3564	HZ2	LYS	375	33.748	108.104	42.014	1.00	0.00	H
ATOM	3565	HZ3	LYS	375	33.398	107.855	40.532	1.00	0.00	H
ATOM	3566	C	LYS	375	34.646	103.538	40.414	1.00	0.00	C
ATOM	3567	O	LYS	375	34.024	104.344	41.104	1.00	0.00	O
ATOM	3568	N	ILE	376	34.686	102.217	40.668	1.00	0.00	N
ATOM	3569	HN	ILE	376	35.331	101.641	40.126	1.00	0.00	H
ATOM	3570	CA	ILE	376	33.876	101.577	41.654	1.00	0.00	C
ATOM	3571	CB	ILE	376	34.348	100.176	41.877	1.00	0.00	C
ATOM	3572	CG1	ILE	376	34.099	99.319	40.628	1.00	0.00	C
ATOM	3573	CG2	ILE	376	33.723	99.657	43.178	1.00	0.00	C
ATOM	3574	CD1	ILE	376	34.935	99.707	39.408	1.00	0.00	C
ATOM	3575	C	ILE	376	34.154	102.312	42.914	1.00	0.00	C
ATOM	3576	O	ILE	376	33.231	102.770	43.584	1.00	0.00	O
ATOM	3577	N	LEU	377	35.445	102.493	43.243	1.00	0.00	N
ATOM	3578	HN	LEU	377	36.196	102.044	42.718	1.00	0.00	H
ATOM	3579	CA	LEU	377	35.720	103.340	44.358	1.00	0.00	C
ATOM	3580	CB	LEU	377	37.041	103.048	45.098	1.00	0.00	C
ATOM	3581	CG	LEU	377	37.047	101.689	45.829	1.00	0.00	C
ATOM	3582	CD1	LEU	377	38.226	101.576	46.809	1.00	0.00	C
ATOM	3583	CD2	LEU	377	35.691	101.406	46.491	1.00	0.00	C
ATOM	3584	C	LEU	377	35.794	104.710	43.758	1.00	0.00	C
ATOM	3585	O	LEU	377	36.795	105.106	43.171	1.00	0.00	O
ATOM	3586	N	LYS	378	34.692	105.455	43.911	1.00	0.00	N
ATOM	3587	HN	LYS	378	33.957	105.027	44.474	1.00	0.00	H
ATOM	3588	CA	LYS	378	34.383	106.764	43.405	1.00	0.00	C
ATOM	3589	CB	LYS	378	32.890	107.130	43.494	1.00	0.00	C
ATOM	3590	CG	LYS	378	32.397	107.467	44.902	1.00	0.00	C
ATOM	3591	CD	LYS	378	32.499	106.319	45.907	1.00	0.00	C
ATOM	3592	CE	LYS	378	31.320	105.347	45.853	1.00	0.00	C
ATOM	3593	NZ	LYS	378	31.509	104.279	46.858	1.00	0.00	N
ATOM	3594	HZ1	LYS	378	30.722	103.631	46.822	1.00	0.00	H
ATOM	3595	HZ2	LYS	378	31.655	104.655	47.795	1.00	0.00	H
ATOM	3596	HZ3	LYS	378	32.405	103.803	46.749	1.00	0.00	H
ATOM	3597	C	LYS	378	35.153	107.831	44.119	1.00	0.00	C
ATOM	3598	O	LYS	378	34.835	109.011	43.968	1.00	0.00	O
ATOM	3599	N	GLY	379	36.137	107.468	44.966	1.00	0.00	N
ATOM	3600	HN	GLY	379	36.448	106.498	45.023	1.00	0.00	H
ATOM	3601	CA	GLY	379	36.735	108.483	45.785	1.00	0.00	C
ATOM	3602	C	GLY	379	36.202	108.223	47.148	1.00	0.00	C
ATOM	3603	O	GLY	379	35.243	108.844	47.608	1.00	0.00	O
ATOM	3604	N	LEU	380	36.796	107.192	47.783	1.00	0.00	N
ATOM	3605	HN	LEU	380	37.589	106.730	47.339	1.00	0.00	H
ATOM	3606	CA	LEU	380	36.350	106.726	49.058	1.00	0.00	C
ATOM	3607	CB	LEU	380	36.017	105.217	49.018	1.00	0.00	C
ATOM	3608	CG	LEU	380	35.722	104.550	50.374	1.00	0.00	C
ATOM	3609	CD1	LEU	380	37.019	104.242	51.138	1.00	0.00	C
ATOM	3610	CD2	LEU	380	34.729	105.383	51.202	1.00	0.00	C
ATOM	3611	C	LEU	380	37.367	106.986	50.119	1.00	0.00	C
ATOM	3612	O	LEU	380	38.569	106.801	49.932	1.00	0.00	O
ATOM	3613	N	ASN	381	36.859	107.446	51.278	1.00	0.00	N
ATOM	3614	HN	ASN	381	35.853	107.608	51.326	1.00	0.00	H
ATOM	3615	CA	ASN	381	37.637	107.722	52.445	1.00	0.00	C
ATOM	3616	CB	ASN	381	37.444	109.153	52.977	1.00	0.00	C
ATOM	3617	CG	ASN	381	38.149	110.111	52.032	1.00	0.00	C
ATOM	3618	OD1	ASN	381	39.376	110.185	52.015	1.00	0.00	O
ATOM	3619	ND2	ASN	381	37.358	110.863	51.221	1.00	0.00	N
ATOM	3620	1HD2	ASN	381	36.340	110.802	51.235	1.00	0.00	H
ATOM	3621	2HD2	ASN	381	37.831	111.506	50.587	1.00	0.00	H
ATOM	3622	C	ASN	381	37.119	106.820	53.508	1.00	0.00	C
ATOM	3623	O	ASN	381	35.906	106.646	53.653	1.00	0.00	O

ATOM	3624	N	LEU	382	38.041	106.188	54.256	1.00	0.00	N
ATOM	3625	HN	LEU	382	39.036	106.323	54.075	1.00	0.00	H
ATOM	3626	CA	LEU	382	37.607	105.327	55.305	1.00	0.00	C
ATOM	3627	CB	LEU	382	37.061	103.985	54.757	1.00	0.00	C
ATOM	3628	CG	LEU	382	36.520	102.937	55.762	1.00	0.00	C
ATOM	3629	CD1	LEU	382	35.947	101.731	55.003	1.00	0.00	C
ATOM	3630	CD2	LEU	382	37.559	102.483	56.801	1.00	0.00	C
ATOM	3631	C	LEU	382	38.814	105.051	56.130	1.00	0.00	C
ATOM	3632	O	LEU	382	39.922	104.881	55.623	1.00	0.00	O
ATOM	3633	N	LYS	383	38.618	105.021	57.453	1.00	0.00	N
ATOM	3634	HN	LYS	383	37.700	105.236	57.843	1.00	0.00	H
ATOM	3635	CA	LYS	383	39.704	104.686	58.310	1.00	0.00	C
ATOM	3636	CB	LYS	383	40.302	105.898	59.049	1.00	0.00	C
ATOM	3637	CG	LYS	383	39.264	106.925	59.512	1.00	0.00	C
ATOM	3638	CD	LYS	383	38.285	106.424	60.573	1.00	0.00	C
ATOM	3639	CE	LYS	383	37.347	107.519	61.089	1.00	0.00	C
ATOM	3640	NZ	LYS	383	36.589	108.112	59.964	1.00	0.00	N
ATOM	3641	HZ1	LYS	383	35.964	108.841	60.308	1.00	0.00	H
ATOM	3642	HZ2	LYS	383	36.090	107.404	59.425	1.00	0.00	H
ATOM	3643	HZ3	LYS	383	37.205	108.454	59.227	1.00	0.00	H
ATOM	3644	C	LYS	383	39.156	103.726	59.299	1.00	0.00	C
ATOM	3645	O	LYS	383	37.957	103.740	59.579	1.00	0.00	O
ATOM	3646	N	VAL	384	40.017	102.814	59.792	1.00	0.00	N
ATOM	3647	HN	VAL	384	40.985	102.788	59.471	1.00	0.00	H
ATOM	3648	CA	VAL	384	39.552	101.883	60.772	1.00	0.00	C
ATOM	3649	CB	VAL	384	39.265	100.528	60.188	1.00	0.00	C
ATOM	3650	CG1	VAL	384	38.994	99.528	61.319	1.00	0.00	C
ATOM	3651	CG2	VAL	384	38.084	100.663	59.222	1.00	0.00	C
ATOM	3652	C	VAL	384	40.645	101.725	61.782	1.00	0.00	C
ATOM	3653	O	VAL	384	41.774	101.356	61.453	1.00	0.00	O
ATOM	3654	N	GLN	385	40.305	101.966	63.062	1.00	0.00	N
ATOM	3655	HN	GLN	385	39.339	102.206	63.284	1.00	0.00	H
ATOM	3656	CA	GLN	385	41.267	101.893	64.117	1.00	0.00	C
ATOM	3657	CB	GLN	385	40.801	102.444	65.477	1.00	0.00	C
ATOM	3658	CG	GLN	385	40.726	103.971	65.543	1.00	0.00	C
ATOM	3659	CD	GLN	385	39.455	104.418	64.842	1.00	0.00	C
ATOM	3660	OE1	GLN	385	38.364	103.934	65.142	1.00	0.00	O
ATOM	3661	NE2	GLN	385	39.597	105.368	63.879	1.00	0.00	N
ATOM	3662	1HE2	GLN	385	40.501	105.769	63.630	1.00	0.00	H
ATOM	3663	2HE2	GLN	385	38.743	105.668	63.408	1.00	0.00	H
ATOM	3664	C	GLN	385	41.672	100.475	64.325	1.00	0.00	C
ATOM	3665	O	GLN	385	41.080	99.553	63.766	1.00	0.00	O
ATOM	3666	N	SER	386	42.746	100.284	65.118	1.00	0.00	N
ATOM	3667	HN	SER	386	43.211	101.092	65.532	1.00	0.00	H
ATOM	3668	CA	SER	386	43.246	98.973	65.390	1.00	0.00	C
ATOM	3669	CB	SER	386	44.644	98.959	66.040	1.00	0.00	C
ATOM	3670	OG	SER	386	44.589	99.503	67.351	1.00	0.00	O
ATOM	3671	HG	SER	386	45.450	99.494	67.752	1.00	0.00	H
ATOM	3672	C	SER	386	42.303	98.303	66.331	1.00	0.00	C
ATOM	3673	O	SER	386	41.427	98.932	66.919	1.00	0.00	O
ATOM	3674	N	GLY	387	42.399	96.964	66.389	1.00	0.00	N
ATOM	3675	HN	GLY	387	43.016	96.497	65.724	1.00	0.00	H
ATOM	3676	CA	GLY	387	41.685	96.153	67.331	1.00	0.00	C
ATOM	3677	C	GLY	387	40.206	96.177	67.058	1.00	0.00	C
ATOM	3678	O	GLY	387	39.463	95.363	67.599	1.00	0.00	O
ATOM	3679	N	GLN	388	39.735	97.089	66.189	1.00	0.00	N
ATOM	3680	HN	GLN	388	40.387	97.696	65.692	1.00	0.00	H
ATOM	3681	CA	GLN	388	38.326	97.219	65.952	1.00	0.00	C
ATOM	3682	CB	GLN	388	37.898	98.608	65.453	1.00	0.00	C
ATOM	3683	CG	GLN	388	38.095	99.707	66.496	1.00	0.00	C
ATOM	3684	CD	GLN	388	37.516	100.993	65.928	1.00	0.00	C
ATOM	3685	OE1	GLN	388	37.734	101.328	64.765	1.00	0.00	O
ATOM	3686	NE2	GLN	388	36.741	101.727	66.770	1.00	0.00	N
ATOM	3687	1HE2	GLN	388	36.560	101.449	67.735	1.00	0.00	H
ATOM	3688	2HE2	GLN	388	36.353	102.590	66.389	1.00	0.00	H
ATOM	3689	C	GLN	388	37.917	96.229	64.921	1.00	0.00	C
ATOM	3690	O	GLN	388	38.710	95.393	64.486	1.00	0.00	O
ATOM	3691	N	THR	389	36.609	96.234	64.596	1.00	0.00	N
ATOM	3692	HN	THR	389	35.959	96.821	65.119	1.00	0.00	H
ATOM	3693	CA	THR	389	36.128	95.421	63.522	1.00	0.00	C
ATOM	3694	CB	THR	389	35.510	94.125	63.959	1.00	0.00	C
ATOM	3695	OG1	THR	389	34.314	94.362	64.685	1.00	0.00	O
ATOM	3696	HG1	THR	389	33.923	93.542	64.962	1.00	0.00	H
ATOM	3697	CG2	THR	389	36.522	93.379	64.845	1.00	0.00	C

ATOM	3698	C	THR	389	35.060	96.236	62.858	1.00	0.00	C
ATOM	3699	O	THR	389	34.137	96.711	63.518	1.00	0.00	O
ATOM	3700	N	VAL	390	35.150	96.415	61.526	1.00	0.00	N
ATOM	3701	HN	VAL	390	35.899	95.967	60.998	1.00	0.00	H
ATOM	3702	CA	VAL	390	34.184	97.241	60.851	1.00	0.00	C
ATOM	3703	CB	VAL	390	34.798	98.352	60.048	1.00	0.00	C
ATOM	3704	CG1	VAL	390	35.704	97.737	58.966	1.00	0.00	C
ATOM	3705	CG2	VAL	390	33.665	99.212	59.462	1.00	0.00	C
ATOM	3706	C	VAL	390	33.379	96.411	59.895	1.00	0.00	C
ATOM	3707	O	VAL	390	33.883	95.468	59.284	1.00	0.00	O
ATOM	3708	N	ALA	391	32.086	96.765	59.736	1.00	0.00	N
ATOM	3709	HN	ALA	391	31.716	97.576	60.231	1.00	0.00	H
ATOM	3710	CA	ALA	391	31.229	95.999	58.869	1.00	0.00	C
ATOM	3711	CB	ALA	391	29.880	95.629	59.508	1.00	0.00	C
ATOM	3712	C	ALA	391	30.920	96.782	57.630	1.00	0.00	C
ATOM	3713	O	ALA	391	30.564	97.958	57.678	1.00	0.00	O
ATOM	3714	N	LEU	392	31.050	96.135	56.462	1.00	0.00	N
ATOM	3715	HN	LEU	392	31.389	95.173	56.442	1.00	0.00	H
ATOM	3716	CA	LEU	392	30.709	96.807	55.243	1.00	0.00	C
ATOM	3717	CB	LEU	392	31.766	96.687	54.133	1.00	0.00	C
ATOM	3718	CG	LEU	392	33.046	97.488	54.417	1.00	0.00	C
ATOM	3719	CD1	LEU	392	33.711	97.031	55.722	1.00	0.00	C
ATOM	3720	CD2	LEU	392	34.004	97.452	53.214	1.00	0.00	C
ATOM	3721	C	LEU	392	29.445	96.197	54.736	1.00	0.00	C
ATOM	3722	O	LEU	392	29.277	94.976	54.744	1.00	0.00	O
ATOM	3723	N	VAL	393	28.501	97.042	54.294	1.00	0.00	N
ATOM	3724	HN	VAL	393	28.652	98.051	54.281	1.00	0.00	H
ATOM	3725	CA	VAL	393	27.273	96.465	53.842	1.00	0.00	C
ATOM	3726	CB	VAL	393	26.123	96.901	54.703	1.00	0.00	C
ATOM	3727	CG1	VAL	393	24.846	96.252	54.188	1.00	0.00	C
ATOM	3728	CG2	VAL	393	26.440	96.570	56.170	1.00	0.00	C
ATOM	3729	C	VAL	393	27.019	96.920	52.430	1.00	0.00	C
ATOM	3730	O	VAL	393	26.873	98.114	52.188	1.00	0.00	O
ATOM	3731	N	GLY	394	26.923	95.978	51.459	1.00	0.00	N
ATOM	3732	HN	GLY	394	27.003	94.995	51.719	1.00	0.00	H
ATOM	3733	CA	GLY	394	26.712	96.314	50.069	1.00	0.00	C
ATOM	3734	C	GLY	394	25.933	95.195	49.435	1.00	0.00	C
ATOM	3735	O	GLY	394	25.611	94.211	50.102	1.00	0.00	O
ATOM	3736	N	ASN	395	25.589	95.318	48.126	1.00	0.00	N
ATOM	3737	HN	ASN	395	25.881	96.126	47.575	1.00	0.00	H
ATOM	3738	CA	ASN	395	24.798	94.266	47.547	1.00	0.00	C
ATOM	3739	CB	ASN	395	23.307	94.419	47.893	1.00	0.00	C
ATOM	3740	CG	ASN	395	22.643	93.072	47.666	1.00	0.00	C
ATOM	3741	OD1	ASN	395	22.946	92.096	48.352	1.00	0.00	O
ATOM	3742	ND2	ASN	395	21.710	93.014	46.678	1.00	0.00	N
ATOM	3743	1HD2	ASN	395	21.459	93.823	46.110	1.00	0.00	H
ATOM	3744	2HD2	ASN	395	21.264	92.109	46.526	1.00	0.00	H
ATOM	3745	C	ASN	395	24.914	94.216	46.051	1.00	0.00	C
ATOM	3746	O	ASN	395	25.112	93.144	45.483	1.00	0.00	O
ATOM	3747	N	SER	396	24.812	95.372	45.363	1.00	0.00	N
ATOM	3748	HN	SER	396	24.727	96.243	45.887	1.00	0.00	H
ATOM	3749	CA	SER	396	24.817	95.434	43.923	1.00	0.00	C
ATOM	3750	CB	SER	396	24.461	96.828	43.399	1.00	0.00	C
ATOM	3751	OG	SER	396	24.523	96.835	41.983	1.00	0.00	O
ATOM	3752	HG	SER	396	24.302	97.700	41.658	1.00	0.00	H
ATOM	3753	C	SER	396	26.160	95.027	43.405	1.00	0.00	C
ATOM	3754	O	SER	396	26.416	95.082	42.203	1.00	0.00	O
ATOM	3755	N	GLY	397	27.074	94.682	44.324	1.00	0.00	N
ATOM	3756	HN	GLY	397	26.855	94.835	45.308	1.00	0.00	H
ATOM	3757	CA	GLY	397	28.341	94.110	43.988	1.00	0.00	C
ATOM	3758	C	GLY	397	29.277	95.160	43.509	1.00	0.00	C
ATOM	3759	O	GLY	397	28.981	96.347	43.485	1.00	0.00	O
ATOM	3760	N	CYS	398	30.450	94.724	43.045	1.00	0.00	N
ATOM	3761	HN	CYS	398	30.675	93.730	43.075	1.00	0.00	H
ATOM	3762	CA	CYS	398	31.384	95.652	42.508	1.00	0.00	C
ATOM	3763	CB	CYS	398	30.848	96.243	41.195	1.00	0.00	C
ATOM	3764	SG	CYS	398	32.119	97.031	40.179	1.00	0.00	S
ATOM	3765	C	CYS	398	31.727	96.762	43.463	1.00	0.00	C
ATOM	3766	O	CYS	398	31.596	97.940	43.129	1.00	0.00	O
ATOM	3767	N	GLY	399	32.271	96.416	44.652	1.00	0.00	N
ATOM	3768	HN	GLY	399	32.348	95.438	44.932	1.00	0.00	H
ATOM	3769	CA	GLY	399	32.736	97.473	45.507	1.00	0.00	C
ATOM	3770	C	GLY	399	33.140	96.980	46.866	1.00	0.00	C
ATOM	3771	O	GLY	399	34.339	96.959	47.158	1.00	0.00	O

ATOM	3772	N	LYS	400	32.201	96.491	47.695	1.00	0.00	N
ATOM	3773	HN	LYS	400	31.246	96.359	47.363	1.00	0.00	H
ATOM	3774	CA	LYS	400	32.545	96.153	49.055	1.00	0.00	C
ATOM	3775	CB	LYS	400	31.374	95.504	49.808	1.00	0.00	C
ATOM	3776	CG	LYS	400	30.135	96.390	49.887	1.00	0.00	C
ATOM	3777	CD	LYS	400	29.486	96.625	48.522	1.00	0.00	C
ATOM	3778	CE	LYS	400	29.162	95.334	47.773	1.00	0.00	C
ATOM	3779	NZ	LYS	400	28.535	95.656	46.477	1.00	0.00	N
ATOM	3780	HZ1	LYS	400	28.319	94.794	45.977	1.00	0.00	H
ATOM	3781	HZ2	LYS	400	29.108	96.290	45.920	1.00	0.00	H
ATOM	3782	HZ3	LYS	400	27.716	96.254	46.584	1.00	0.00	H
ATOM	3783	C	LYS	400	33.652	95.153	49.054	1.00	0.00	C
ATOM	3784	O	LYS	400	34.750	95.449	49.522	1.00	0.00	O
ATOM	3785	N	SER	401	33.431	94.014	48.380	1.00	0.00	N
ATOM	3786	HN	SER	401	32.558	93.912	47.863	1.00	0.00	H
ATOM	3787	CA	SER	401	34.369	92.942	48.359	1.00	0.00	C
ATOM	3788	CB	SER	401	33.950	91.818	47.401	1.00	0.00	C
ATOM	3789	OG	SER	401	33.935	92.308	46.068	1.00	0.00	O
ATOM	3790	HG	SER	401	33.676	91.612	45.475	1.00	0.00	H
ATOM	3791	C	SER	401	35.660	93.486	47.850	1.00	0.00	C
ATOM	3792	O	SER	401	36.700	93.035	48.317	1.00	0.00	O
ATOM	3793	N	THR	402	35.607	94.468	46.912	1.00	0.00	N
ATOM	3794	HN	THR	402	34.682	94.826	46.675	1.00	0.00	H
ATOM	3795	CA	THR	402	36.730	95.056	46.217	1.00	0.00	C
ATOM	3796	CB	THR	402	36.290	95.975	45.125	1.00	0.00	C
ATOM	3797	OG1	THR	402	35.382	95.296	44.274	1.00	0.00	O
ATOM	3798	HG1	THR	402	34.617	95.033	44.771	1.00	0.00	H
ATOM	3799	CG2	THR	402	37.532	96.402	44.318	1.00	0.00	C
ATOM	3800	C	THR	402	37.633	95.855	47.105	1.00	0.00	C
ATOM	3801	O	THR	402	38.852	95.802	46.973	1.00	0.00	O
ATOM	3802	N	THR	403	37.078	96.680	48.001	1.00	0.00	N
ATOM	3803	HN	THR	403	36.065	96.780	48.065	1.00	0.00	H
ATOM	3804	CA	THR	403	37.946	97.419	48.868	1.00	0.00	C
ATOM	3805	CB	THR	403	37.177	98.318	49.781	1.00	0.00	C
ATOM	3806	OG1	THR	403	36.275	99.106	49.022	1.00	0.00	O
ATOM	3807	HG1	THR	403	35.660	98.533	48.579	1.00	0.00	H
ATOM	3808	CG2	THR	403	38.173	99.246	50.498	1.00	0.00	C
ATOM	3809	C	THR	403	38.594	96.379	49.723	1.00	0.00	C
ATOM	3810	O	THR	403	39.783	96.436	50.034	1.00	0.00	O
ATOM	3811	N	VAL	404	37.795	95.362	50.097	1.00	0.00	N
ATOM	3812	HN	VAL	404	36.818	95.375	49.803	1.00	0.00	H
ATOM	3813	CA	VAL	404	38.257	94.265	50.889	1.00	0.00	C
ATOM	3814	CB	VAL	404	37.195	93.235	51.143	1.00	0.00	C
ATOM	3815	CG1	VAL	404	37.841	92.037	51.857	1.00	0.00	C
ATOM	3816	CG2	VAL	404	36.049	93.885	51.936	1.00	0.00	C
ATOM	3817	C	VAL	404	39.303	93.625	50.072	1.00	0.00	C
ATOM	3818	O	VAL	404	40.162	92.911	50.588	1.00	0.00	O
ATOM	3819	N	GLN	405	39.157	93.793	48.746	1.00	0.00	N
ATOM	3820	HN	GLN	405	38.390	94.364	48.391	1.00	0.00	H
ATOM	3821	CA	GLN	405	40.056	93.186	47.837	1.00	0.00	C
ATOM	3822	CB	GLN	405	39.539	93.224	46.389	1.00	0.00	C
ATOM	3823	CG	GLN	405	40.122	92.122	45.518	1.00	0.00	C
ATOM	3824	CD	GLN	405	39.330	90.882	45.898	1.00	0.00	C
ATOM	3825	OE1	GLN	405	38.126	90.809	45.657	1.00	0.00	O
ATOM	3826	NE2	GLN	405	40.008	89.893	46.537	1.00	0.00	N
ATOM	3827	1HE2	GLN	405	39.476	89.061	46.792	1.00	0.00	H
ATOM	3828	2HE2	GLN	405	41.006	89.954	46.737	1.00	0.00	H
ATOM	3829	C	GLN	405	41.431	93.801	47.833	1.00	0.00	C
ATOM	3830	O	GLN	405	42.388	93.139	48.225	1.00	0.00	O
ATOM	3831	N	LEU	406	41.539	95.113	47.501	1.00	0.00	N
ATOM	3832	HN	LEU	406	40.678	95.641	47.356	1.00	0.00	H
ATOM	3833	CA	LEU	406	42.790	95.807	47.341	1.00	0.00	C
ATOM	3834	CB	LEU	406	42.724	97.200	46.663	1.00	0.00	C
ATOM	3835	CG	LEU	406	41.993	98.344	47.395	1.00	0.00	C
ATOM	3836	CD1	LEU	406	40.501	98.053	47.547	1.00	0.00	C
ATOM	3837	CD2	LEU	406	42.677	98.739	48.709	1.00	0.00	C
ATOM	3838	C	LEU	406	43.455	95.899	48.660	1.00	0.00	C
ATOM	3839	O	LEU	406	44.616	96.282	48.768	1.00	0.00	O
ATOM	3840	N	MET	407	42.704	95.594	49.722	1.00	0.00	N
ATOM	3841	HN	MET	407	41.720	95.360	49.589	1.00	0.00	H
ATOM	3842	CA	MET	407	43.254	95.590	51.041	1.00	0.00	C
ATOM	3843	CB	MET	407	42.217	95.279	52.133	1.00	0.00	C
ATOM	3844	CG	MET	407	42.799	95.310	53.548	1.00	0.00	C
ATOM	3845	SD	MET	407	43.397	96.941	54.085	1.00	0.00	S

ATOM	3846	CE	MET	407	45.102	96.669	53.524	1.00	0.00	C
ATOM	3847	C	MET	407	44.323	94.523	51.051	1.00	0.00	C
ATOM	3848	O	MET	407	45.067	94.368	52.016	1.00	0.00	O
ATOM	3849	N	GLN	408	44.219	93.604	50.080	1.00	0.00	N
ATOM	3850	HN	GLN	408	43.364	93.666	49.528	1.00	0.00	H
ATOM	3851	CA	GLN	408	45.109	92.547	49.686	1.00	0.00	C
ATOM	3852	CB	GLN	408	44.335	91.310	49.213	1.00	0.00	C
ATOM	3853	CG	GLN	408	43.495	90.744	50.366	1.00	0.00	C
ATOM	3854	CD	GLN	408	42.729	89.519	49.895	1.00	0.00	C
ATOM	3855	OE1	GLN	408	43.318	88.552	49.416	1.00	0.00	O
ATOM	3856	NE2	GLN	408	41.378	89.552	50.045	1.00	0.00	N
ATOM	3857	1HE2	GLN	408	40.864	88.730	49.729	1.00	0.00	H
ATOM	3858	2HE2	GLN	408	40.889	90.354	50.442	1.00	0.00	H
ATOM	3859	C	GLN	408	46.115	92.974	48.645	1.00	0.00	C
ATOM	3860	O	GLN	408	46.928	92.165	48.202	1.00	0.00	O
ATOM	3861	N	ARG	409	45.980	94.197	48.100	1.00	0.00	N
ATOM	3862	HN	ARG	409	45.227	94.791	48.447	1.00	0.00	H
ATOM	3863	CA	ARG	409	46.824	94.723	47.062	1.00	0.00	C
ATOM	3864	CB	ARG	409	48.326	94.598	47.373	1.00	0.00	C
ATOM	3865	CG	ARG	409	49.206	95.430	46.440	1.00	0.00	C
ATOM	3866	CD	ARG	409	49.873	94.628	45.320	1.00	0.00	C
ATOM	3867	NE	ARG	409	50.604	95.602	44.464	1.00	0.00	N
ATOM	3868	HE	ARG	409	50.185	95.933	43.595	1.00	0.00	H
ATOM	3869	CZ	ARG	409	51.836	96.051	44.844	1.00	0.00	C
ATOM	3870	NH1	ARG	409	52.390	95.609	46.010	1.00	0.00	N
ATOM	3871	1HH1	ARG	409	53.310	95.944	46.294	1.00	0.00	H
ATOM	3872	2HH1	ARG	409	51.891	94.935	46.590	1.00	0.00	H
ATOM	3873	NH2	ARG	409	52.503	96.953	44.068	1.00	0.00	N
ATOM	3874	1HH2	ARG	409	53.423	97.288	44.352	1.00	0.00	H
ATOM	3875	2HH2	ARG	409	52.089	97.283	43.196	1.00	0.00	H
ATOM	3876	C	ARG	409	46.509	93.952	45.851	1.00	0.00	C
ATOM	3877	O	ARG	409	47.249	93.953	44.867	1.00	0.00	O
ATOM	3878	N	LEU	410	45.311	93.356	45.882	1.00	0.00	N
ATOM	3879	HN	LEU	410	44.694	93.493	46.683	1.00	0.00	H
ATOM	3880	CA	LEU	410	44.900	92.537	44.807	1.00	0.00	C
ATOM	3881	CB	LEU	410	43.530	91.893	45.036	1.00	0.00	C
ATOM	3882	CG	LEU	410	43.269	90.717	44.088	1.00	0.00	C
ATOM	3883	CD1	LEU	410	44.391	89.676	44.174	1.00	0.00	C
ATOM	3884	CD2	LEU	410	41.944	90.048	44.434	1.00	0.00	C
ATOM	3885	C	LEU	410	44.917	93.422	43.591	1.00	0.00	C
ATOM	3886	O	LEU	410	45.283	92.973	42.516	1.00	0.00	O
ATOM	3887	N	TYR	411	44.556	94.716	43.723	1.00	0.00	N
ATOM	3888	HN	TYR	411	44.171	95.040	44.610	1.00	0.00	H
ATOM	3889	CA	TYR	411	44.704	95.651	42.633	1.00	0.00	C
ATOM	3890	CB	TYR	411	43.383	96.223	42.094	1.00	0.00	C
ATOM	3891	CG	TYR	411	42.555	95.210	41.385	1.00	0.00	C
ATOM	3892	CD1	TYR	411	41.844	94.259	42.078	1.00	0.00	C
ATOM	3893	CD2	TYR	411	42.466	95.245	40.012	1.00	0.00	C
ATOM	3894	CE1	TYR	411	41.068	93.346	41.403	1.00	0.00	C
ATOM	3895	CE2	TYR	411	41.692	94.337	39.332	1.00	0.00	C
ATOM	3896	CZ	TYR	411	40.992	93.384	40.030	1.00	0.00	C
ATOM	3897	OH	TYR	411	40.197	92.446	39.338	1.00	0.00	O
ATOM	3898	HH	TYR	411	40.145	92.472	38.390	1.00	0.00	H
ATOM	3899	C	TYR	411	45.363	96.855	43.204	1.00	0.00	C
ATOM	3900	O	TYR	411	45.066	97.221	44.338	1.00	0.00	O
ATOM	3901	N	ASP	412	46.267	97.513	42.445	1.00	0.00	N
ATOM	3902	HN	ASP	412	46.547	97.164	41.528	1.00	0.00	H
ATOM	3903	CA	ASP	412	46.817	98.728	42.987	1.00	0.00	C
ATOM	3904	CB	ASP	412	48.013	99.319	42.220	1.00	0.00	C
ATOM	3905	CG	ASP	412	49.288	98.619	42.659	1.00	0.00	C
ATOM	3906	OD1	ASP	412	49.197	97.569	43.347	1.00	0.00	O
ATOM	3907	OD2	ASP	412	50.381	99.152	42.326	1.00	0.00	O
ATOM	3908	C	ASP	412	45.729	99.764	42.962	1.00	0.00	C
ATOM	3909	O	ASP	412	44.834	99.687	42.125	1.00	0.00	O
ATOM	3910	N	PRO	413	45.748	100.734	43.847	1.00	0.00	N
ATOM	3911	CA	PRO	413	44.712	101.733	43.861	1.00	0.00	C
ATOM	3912	CD	PRO	413	46.401	100.613	45.139	1.00	0.00	C
ATOM	3913	CB	PRO	413	44.772	102.405	45.237	1.00	0.00	C
ATOM	3914	CG	PRO	413	46.130	101.968	45.819	1.00	0.00	C
ATOM	3915	C	PRO	413	44.833	102.666	42.705	1.00	0.00	C
ATOM	3916	O	PRO	413	45.946	103.070	42.370	1.00	0.00	O
ATOM	3917	N	THR	414	43.693	103.031	42.088	1.00	0.00	N
ATOM	3918	HN	THR	414	42.798	102.682	42.432	1.00	0.00	H
ATOM	3919	CA	THR	414	43.726	103.904	40.954	1.00	0.00	C

ATOM	3920	CB	THR	414	42.368	104.113	40.349	1.00	0.00	C
ATOM	3921	OG1	THR	414	41.821	102.872	39.930	1.00	0.00	O
ATOM	3922	HG1	THR	414	41.738	102.282	40.670	1.00	0.00	H
ATOM	3923	CG2	THR	414	42.502	105.068	39.152	1.00	0.00	C
ATOM	3924	C	THR	414	44.241	105.243	41.379	1.00	0.00	C
ATOM	3925	O	THR	414	45.145	105.796	40.755	1.00	0.00	O
ATOM	3926	N	GLU	415	43.682	105.803	42.470	1.00	0.00	N
ATOM	3927	HN	GLU	415	42.946	105.312	42.978	1.00	0.00	H
ATOM	3928	CA	GLU	415	44.126	107.093	42.914	1.00	0.00	C
ATOM	3929	CB	GLU	415	43.267	108.269	42.400	1.00	0.00	C
ATOM	3930	CG	GLU	415	43.921	109.652	42.547	1.00	0.00	C
ATOM	3931	CD	GLU	415	43.555	110.278	43.889	1.00	0.00	C
ATOM	3932	OE1	GLU	415	42.689	109.701	44.600	1.00	0.00	O
ATOM	3933	OE2	GLU	415	44.145	111.340	44.224	1.00	0.00	O
ATOM	3934	C	GLU	415	44.033	107.095	44.398	1.00	0.00	C
ATOM	3935	O	GLU	415	43.317	106.292	44.992	1.00	0.00	O
ATOM	3936	N	GLY	416	44.771	108.013	45.040	1.00	0.00	N
ATOM	3937	HN	GLY	416	45.352	108.668	44.516	1.00	0.00	H
ATOM	3938	CA	GLY	416	44.732	108.061	46.465	1.00	0.00	C
ATOM	3939	C	GLY	416	45.594	106.941	46.922	1.00	0.00	C
ATOM	3940	O	GLY	416	46.544	106.566	46.238	1.00	0.00	O
ATOM	3941	N	MET	417	45.312	106.392	48.116	1.00	0.00	N
ATOM	3942	HN	MET	417	44.551	106.737	48.700	1.00	0.00	H
ATOM	3943	CA	MET	417	46.137	105.298	48.522	1.00	0.00	C
ATOM	3944	CB	MET	417	47.601	105.689	48.804	1.00	0.00	C
ATOM	3945	CG	MET	417	47.774	106.657	49.978	1.00	0.00	C
ATOM	3946	SD	MET	417	49.499	106.972	50.458	1.00	0.00	S
ATOM	3947	CE	MET	417	49.964	107.814	48.917	1.00	0.00	C
ATOM	3948	C	MET	417	45.581	104.691	49.761	1.00	0.00	C
ATOM	3949	O	MET	417	44.584	105.155	50.315	1.00	0.00	O
ATOM	3950	N	VAL	418	46.227	103.588	50.186	1.00	0.00	N
ATOM	3951	HN	VAL	418	47.015	103.250	49.634	1.00	0.00	H
ATOM	3952	CA	VAL	418	45.871	102.864	51.367	1.00	0.00	C
ATOM	3953	CB	VAL	418	45.395	101.461	51.101	1.00	0.00	C
ATOM	3954	CG1	VAL	418	45.160	100.753	52.437	1.00	0.00	C
ATOM	3955	CG2	VAL	418	44.143	101.497	50.237	1.00	0.00	C
ATOM	3956	C	VAL	418	47.125	102.688	52.141	1.00	0.00	C
ATOM	3957	O	VAL	418	48.218	102.595	51.580	1.00	0.00	O
ATOM	3958	N	SER	419	46.987	102.644	53.472	1.00	0.00	N
ATOM	3959	HN	SER	419	46.063	102.742	53.892	1.00	0.00	H
ATOM	3960	CA	SER	419	48.130	102.461	54.301	1.00	0.00	C
ATOM	3961	CB	SER	419	48.476	103.747	55.075	1.00	0.00	C
ATOM	3962	OG	SER	419	49.504	103.514	56.024	1.00	0.00	O
ATOM	3963	HG	SER	419	49.717	104.307	56.501	1.00	0.00	H
ATOM	3964	C	SER	419	47.773	101.419	55.309	1.00	0.00	C
ATOM	3965	O	SER	419	46.677	101.436	55.866	1.00	0.00	O
ATOM	3966	N	VAL	420	48.693	100.458	55.531	1.00	0.00	N
ATOM	3967	HN	VAL	420	49.522	100.434	54.937	1.00	0.00	H
ATOM	3968	CA	VAL	420	48.565	99.471	56.558	1.00	0.00	C
ATOM	3969	CB	VAL	420	49.120	98.129	56.178	1.00	0.00	C
ATOM	3970	CG1	VAL	420	49.079	97.214	57.413	1.00	0.00	C
ATOM	3971	CG2	VAL	420	48.335	97.587	54.971	1.00	0.00	C
ATOM	3972	C	VAL	420	49.432	100.004	57.623	1.00	0.00	C
ATOM	3973	O	VAL	420	50.408	100.658	57.265	1.00	0.00	O
ATOM	3974	N	ASP	421	49.120	99.733	58.919	1.00	0.00	N
ATOM	3975	HN	ASP	421	48.350	99.105	59.150	1.00	0.00	H
ATOM	3976	CA	ASP	421	49.898	100.350	59.951	1.00	0.00	C
ATOM	3977	CB	ASP	421	51.368	99.884	59.937	1.00	0.00	C
ATOM	3978	CG	ASP	421	52.065	100.366	61.201	1.00	0.00	C
ATOM	3979	OD1	ASP	421	51.350	100.792	62.145	1.00	0.00	O
ATOM	3980	OD2	ASP	421	53.324	100.321	61.232	1.00	0.00	O
ATOM	3981	C	ASP	421	49.841	101.805	59.605	1.00	0.00	C
ATOM	3982	O	ASP	421	48.760	102.371	59.438	1.00	0.00	O
ATOM	3983	N	GLY	422	51.030	102.433	59.601	1.00	0.00	N
ATOM	3984	HN	GLY	422	51.798	101.909	60.020	1.00	0.00	H
ATOM	3985	CA	GLY	422	51.382	103.731	59.095	1.00	0.00	C
ATOM	3986	C	GLY	422	51.766	103.775	57.630	1.00	0.00	C
ATOM	3987	O	GLY	422	51.722	104.847	57.028	1.00	0.00	O
ATOM	3988	N	GLN	423	52.263	102.654	57.049	1.00	0.00	N
ATOM	3989	HN	GLN	423	52.194	101.768	57.549	1.00	0.00	H
ATOM	3990	CA	GLN	423	52.888	102.674	55.742	1.00	0.00	C
ATOM	3991	CB	GLN	423	54.088	101.713	55.670	1.00	0.00	C
ATOM	3992	CG	GLN	423	55.173	102.051	56.698	1.00	0.00	C
ATOM	3993	CD	GLN	423	56.277	101.008	56.596	1.00	0.00	C

ATOM	3994	OE1	GLN	423	56.043	99.877	56.172	1.00	0.00	O
ATOM	3995	NE2	GLN	423	57.517	101.393	57.001	1.00	0.00	N
ATOM	3996	1HE2	GLN	423	58.257	100.694	56.933	1.00	0.00	H
ATOM	3997	2HE2	GLN	423	57.711	102.331	57.353	1.00	0.00	H
ATOM	3998	C	GLN	423	51.936	102.309	54.642	1.00	0.00	C
ATOM	3999	O	GLN	423	50.895	101.692	54.859	1.00	0.00	O
ATOM	4000	N	ASP	424	52.298	102.707	53.404	1.00	0.00	N
ATOM	4001	HN	ASP	424	53.190	103.189	53.298	1.00	0.00	H
ATOM	4002	CA	ASP	424	51.505	102.493	52.230	1.00	0.00	C
ATOM	4003	CB	ASP	424	51.988	103.373	51.060	1.00	0.00	C
ATOM	4004	CG	ASP	424	51.232	103.029	49.787	1.00	0.00	C
ATOM	4005	OD1	ASP	424	51.490	101.928	49.237	1.00	0.00	O
ATOM	4006	OD2	ASP	424	50.396	103.859	49.341	1.00	0.00	O
ATOM	4007	C	ASP	424	51.612	101.053	51.841	1.00	0.00	C
ATOM	4008	O	ASP	424	52.692	100.478	51.764	1.00	0.00	O
ATOM	4009	N	ILE	425	50.465	100.436	51.534	1.00	0.00	N
ATOM	4010	HN	ILE	425	49.607	100.986	51.486	1.00	0.00	H
ATOM	4011	CA	ILE	425	50.401	99.025	51.270	1.00	0.00	C
ATOM	4012	CB	ILE	425	48.993	98.606	50.955	1.00	0.00	C
ATOM	4013	CG1	ILE	425	48.910	97.097	50.697	1.00	0.00	C
ATOM	4014	CG2	ILE	425	48.476	99.472	49.792	1.00	0.00	C
ATOM	4015	CD1	ILE	425	47.473	96.602	50.567	1.00	0.00	C
ATOM	4016	C	ILE	425	51.265	98.620	50.107	1.00	0.00	C
ATOM	4017	O	ILE	425	52.071	97.696	50.218	1.00	0.00	O
ATOM	4018	N	ARG	426	51.181	99.350	48.984	1.00	0.00	N
ATOM	4019	HN	ARG	426	50.646	100.218	49.008	1.00	0.00	H
ATOM	4020	CA	ARG	426	51.807	98.967	47.753	1.00	0.00	C
ATOM	4021	CB	ARG	426	51.542	99.990	46.643	1.00	0.00	C
ATOM	4022	CG	ARG	426	50.051	100.093	46.334	1.00	0.00	C
ATOM	4023	CD	ARG	426	49.722	100.953	45.116	1.00	0.00	C
ATOM	4024	NE	ARG	426	49.886	102.382	45.488	1.00	0.00	N
ATOM	4025	HE	ARG	426	50.173	102.641	46.432	1.00	0.00	H
ATOM	4026	CZ	ARG	426	49.648	103.344	44.549	1.00	0.00	C
ATOM	4027	NH1	ARG	426	49.349	102.985	43.266	1.00	0.00	N
ATOM	4028	1HH1	ARG	426	49.315	101.999	43.009	1.00	0.00	H
ATOM	4029	2HH1	ARG	426	49.171	103.704	42.564	1.00	0.00	H
ATOM	4030	NH2	ARG	426	49.694	104.663	44.893	1.00	0.00	N
ATOM	4031	1HH2	ARG	426	49.917	104.931	45.851	1.00	0.00	H
ATOM	4032	2HH2	ARG	426	49.516	105.382	44.191	1.00	0.00	H
ATOM	4033	C	ARG	426	53.283	98.830	47.935	1.00	0.00	C
ATOM	4034	O	ARG	426	53.897	97.945	47.337	1.00	0.00	O
ATOM	4035	N	THR	427	53.889	99.687	48.775	1.00	0.00	N
ATOM	4036	HN	THR	427	53.337	100.356	49.313	1.00	0.00	H
ATOM	4037	CA	THR	427	55.316	99.655	48.910	1.00	0.00	C
ATOM	4038	CB	THR	427	55.874	100.729	49.800	1.00	0.00	C
ATOM	4039	OG1	THR	427	57.290	100.672	49.783	1.00	0.00	O
ATOM	4040	HG1	THR	427	57.643	101.351	50.346	1.00	0.00	H
ATOM	4041	CG2	THR	427	55.371	100.529	51.234	1.00	0.00	C
ATOM	4042	C	THR	427	55.795	98.338	49.439	1.00	0.00	C
ATOM	4043	O	THR	427	56.860	97.869	49.045	1.00	0.00	O
ATOM	4044	N	ILE	428	55.042	97.707	50.354	1.00	0.00	N
ATOM	4045	HN	ILE	428	54.136	98.100	50.609	1.00	0.00	H
ATOM	4046	CA	ILE	428	55.482	96.490	50.983	1.00	0.00	C
ATOM	4047	CB	ILE	428	54.740	96.226	52.254	1.00	0.00	C
ATOM	4048	CG1	ILE	428	53.266	95.881	51.992	1.00	0.00	C
ATOM	4049	CG2	ILE	428	54.880	97.515	53.079	1.00	0.00	C
ATOM	4050	CD1	ILE	428	52.542	95.378	53.241	1.00	0.00	C
ATOM	4051	C	ILE	428	55.314	95.312	50.051	1.00	0.00	C
ATOM	4052	O	ILE	428	54.483	95.324	49.144	1.00	0.00	O
ATOM	4053	N	ASN	429	56.160	94.270	50.232	1.00	0.00	N
ATOM	4054	HN	ASN	429	56.842	94.333	50.988	1.00	0.00	H
ATOM	4055	CA	ASN	429	56.156	93.076	49.421	1.00	0.00	C
ATOM	4056	CB	ASN	429	57.323	92.129	49.743	1.00	0.00	C
ATOM	4057	CG	ASN	429	57.134	90.847	48.947	1.00	0.00	C
ATOM	4058	OD1	ASN	429	57.118	89.754	49.512	1.00	0.00	O
ATOM	4059	ND2	ASN	429	56.973	90.975	47.603	1.00	0.00	N
ATOM	4060	1HD2	ASN	429	56.986	91.881	47.135	1.00	0.00	H
ATOM	4061	2HD2	ASN	429	56.846	90.115	47.069	1.00	0.00	H
ATOM	4062	C	ASN	429	54.883	92.299	49.599	1.00	0.00	C
ATOM	4063	O	ASN	429	54.281	92.283	50.671	1.00	0.00	O
ATOM	4064	N	VAL	430	54.439	91.643	48.502	1.00	0.00	N
ATOM	4065	HN	VAL	430	55.016	91.662	47.661	1.00	0.00	H
ATOM	4066	CA	VAL	430	53.194	90.919	48.459	1.00	0.00	C
ATOM	4067	CB	VAL	430	52.778	90.518	47.073	1.00	0.00	C

ATOM	4068	CG1	VAL	430	52.278	91.768	46.339	1.00	0.00	C
ATOM	4069	CG2	VAL	430	53.973	89.848	46.374	1.00	0.00	C
ATOM	4070	C	VAL	430	53.103	89.699	49.326	1.00	0.00	C
ATOM	4071	O	VAL	430	52.255	89.682	50.218	1.00	0.00	O
ATOM	4072	N	ARG	431	54.013	88.707	49.165	1.00	0.00	N
ATOM	4073	HN	ARG	431	54.818	88.868	48.560	1.00	0.00	H
ATOM	4074	CA	ARG	431	53.877	87.428	49.824	1.00	0.00	C
ATOM	4075	CB	ARG	431	55.092	86.505	49.636	1.00	0.00	C
ATOM	4076	CG	ARG	431	54.853	85.106	50.208	1.00	0.00	C
ATOM	4077	CD	ARG	431	56.125	84.283	50.424	1.00	0.00	C
ATOM	4078	NE	ARG	431	56.850	84.201	49.124	1.00	0.00	N
ATOM	4079	HE	ARG	431	57.560	84.897	48.898	1.00	0.00	H
ATOM	4080	CZ	ARG	431	56.574	83.204	48.233	1.00	0.00	C
ATOM	4081	NH1	ARG	431	55.595	82.292	48.499	1.00	0.00	N
ATOM	4082	1HH1	ARG	431	55.389	81.547	47.833	1.00	0.00	H
ATOM	4083	2HH1	ARG	431	55.063	82.352	49.367	1.00	0.00	H
ATOM	4084	NH2	ARG	431	57.286	83.124	47.072	1.00	0.00	N
ATOM	4085	1HH2	ARG	431	57.080	82.379	46.406	1.00	0.00	H
ATOM	4086	2HH2	ARG	431	58.018	83.806	46.873	1.00	0.00	H
ATOM	4087	C	ARG	431	53.785	87.726	51.290	1.00	0.00	C
ATOM	4088	O	ARG	431	53.057	87.071	52.038	1.00	0.00	O
ATOM	4089	N	PHE	432	54.538	88.756	51.712	1.00	0.00	N
ATOM	4090	HN	PHE	432	55.125	89.228	51.024	1.00	0.00	H
ATOM	4091	CA	PHE	432	54.574	89.239	53.065	1.00	0.00	C
ATOM	4092	CB	PHE	432	55.618	90.373	53.153	1.00	0.00	C
ATOM	4093	CG	PHE	432	55.974	90.720	54.557	1.00	0.00	C
ATOM	4094	CD1	PHE	432	55.206	91.586	55.299	1.00	0.00	C
ATOM	4095	CD2	PHE	432	57.111	90.188	55.122	1.00	0.00	C
ATOM	4096	CE1	PHE	432	55.561	91.903	56.590	1.00	0.00	C
ATOM	4097	CE2	PHE	432	57.472	90.501	56.411	1.00	0.00	C
ATOM	4098	CZ	PHE	432	56.693	91.359	57.149	1.00	0.00	C
ATOM	4099	C	PHE	432	53.225	89.798	53.454	1.00	0.00	C
ATOM	4100	O	PHE	432	52.628	89.381	54.448	1.00	0.00	O
ATOM	4101	N	LEU	433	52.680	90.726	52.634	1.00	0.00	N
ATOM	4102	HN	LEU	433	53.153	90.956	51.760	1.00	0.00	H
ATOM	4103	CA	LEU	433	51.446	91.400	52.963	1.00	0.00	C
ATOM	4104	CB	LEU	433	50.982	92.355	51.857	1.00	0.00	C
ATOM	4105	CG	LEU	433	49.595	92.964	52.132	1.00	0.00	C
ATOM	4106	CD1	LEU	433	49.632	93.988	53.278	1.00	0.00	C
ATOM	4107	CD2	LEU	433	48.962	93.499	50.840	1.00	0.00	C
ATOM	4108	C	LEU	433	50.367	90.390	53.085	1.00	0.00	C
ATOM	4109	O	LEU	433	49.680	90.303	54.102	1.00	0.00	O
ATOM	4110	N	ARG	434	50.276	89.528	52.068	1.00	0.00	N
ATOM	4111	HN	ARG	434	50.980	89.559	51.330	1.00	0.00	H
ATOM	4112	CA	ARG	434	49.229	88.568	51.981	1.00	0.00	C
ATOM	4113	CB	ARG	434	49.407	87.645	50.764	1.00	0.00	C
ATOM	4114	CG	ARG	434	49.356	88.409	49.436	1.00	0.00	C
ATOM	4115	CD	ARG	434	47.944	88.870	49.064	1.00	0.00	C
ATOM	4116	NE	ARG	434	48.025	89.717	47.841	1.00	0.00	N
ATOM	4117	HE	ARG	434	48.065	90.732	47.929	1.00	0.00	H
ATOM	4118	CZ	ARG	434	48.046	89.142	46.603	1.00	0.00	C
ATOM	4119	NH1	ARG	434	48.105	87.784	46.483	1.00	0.00	N
ATOM	4120	1HH1	ARG	434	48.133	87.199	47.318	1.00	0.00	H
ATOM	4121	2HH1	ARG	434	48.121	87.354	45.558	1.00	0.00	H
ATOM	4122	NH2	ARG	434	48.009	89.925	45.485	1.00	0.00	N
ATOM	4123	1HH2	ARG	434	47.965	90.940	45.575	1.00	0.00	H
ATOM	4124	2HH2	ARG	434	48.025	89.495	44.560	1.00	0.00	H
ATOM	4125	C	ARG	434	49.274	87.739	53.230	1.00	0.00	C
ATOM	4126	O	ARG	434	48.238	87.302	53.725	1.00	0.00	O
ATOM	4127	N	GLU	435	50.480	87.475	53.765	1.00	0.00	N
ATOM	4128	HN	GLU	435	51.323	87.823	53.308	1.00	0.00	H
ATOM	4129	CA	GLU	435	50.591	86.706	54.977	1.00	0.00	C
ATOM	4130	CB	GLU	435	52.058	86.433	55.340	1.00	0.00	C
ATOM	4131	CG	GLU	435	52.780	85.549	54.322	1.00	0.00	C
ATOM	4132	CD	GLU	435	54.263	85.572	54.655	1.00	0.00	C
ATOM	4133	OE1	GLU	435	54.852	86.684	54.647	1.00	0.00	O
ATOM	4134	OE2	GLU	435	54.826	84.476	54.922	1.00	0.00	O
ATOM	4135	C	GLU	435	49.983	87.461	56.141	1.00	0.00	C
ATOM	4136	O	GLU	435	49.189	86.918	56.907	1.00	0.00	O
ATOM	4137	N	ILE	436	50.313	88.760	56.259	1.00	0.00	N
ATOM	4138	HN	ILE	436	50.886	89.148	55.509	1.00	0.00	H
ATOM	4139	CA	ILE	436	49.954	89.666	57.317	1.00	0.00	C
ATOM	4140	CB	ILE	436	50.602	91.013	57.143	1.00	0.00	C
ATOM	4141	CG1	ILE	436	52.128	90.839	57.078	1.00	0.00	C



ATOM	4142	CG2	ILE	436	50.163	91.931	58.298	1.00	0.00	C
ATOM	4143	CD1	ILE	436	52.709	90.173	58.325	1.00	0.00	C
ATOM	4144	C	ILE	436	48.469	89.846	57.370	1.00	0.00	C
ATOM	4145	O	ILE	436	47.933	90.343	58.358	1.00	0.00	O
ATOM	4146	N	ILE	437	47.765	89.584	56.261	1.00	0.00	N
ATOM	4147	HN	ILE	437	48.223	89.231	55.420	1.00	0.00	H
ATOM	4148	CA	ILE	437	46.348	89.814	56.289	1.00	0.00	C
ATOM	4149	CB	ILE	437	45.920	90.664	55.128	1.00	0.00	C
ATOM	4150	CG1	ILE	437	46.673	92.004	55.156	1.00	0.00	C
ATOM	4151	CG2	ILE	437	44.395	90.822	55.171	1.00	0.00	C
ATOM	4152	CD1	ILE	437	46.520	92.814	53.871	1.00	0.00	C
ATOM	4153	C	ILE	437	45.574	88.524	56.216	1.00	0.00	C
ATOM	4154	O	ILE	437	45.407	87.944	55.147	1.00	0.00	O
ATOM	4155	N	GLY	438	45.022	88.069	57.360	1.00	0.00	N
ATOM	4156	HN	GLY	438	45.148	88.606	58.218	1.00	0.00	H
ATOM	4157	CA	GLY	438	44.261	86.849	57.406	1.00	0.00	C
ATOM	4158	C	GLY	438	42.968	87.102	56.705	1.00	0.00	C
ATOM	4159	O	GLY	438	42.375	88.165	56.875	1.00	0.00	O
ATOM	4160	N	VAL	439	42.487	86.125	55.903	1.00	0.00	N
ATOM	4161	HN	VAL	439	42.987	85.241	55.802	1.00	0.00	H
ATOM	4162	CA	VAL	439	41.258	86.357	55.196	1.00	0.00	C
ATOM	4163	CB	VAL	439	41.485	86.795	53.774	1.00	0.00	C
ATOM	4164	CG1	VAL	439	40.124	86.897	53.065	1.00	0.00	C
ATOM	4165	CG2	VAL	439	42.282	88.110	53.776	1.00	0.00	C
ATOM	4166	C	VAL	439	40.421	85.105	55.141	1.00	0.00	C
ATOM	4167	O	VAL	439	40.922	84.001	54.939	1.00	0.00	O
ATOM	4168	N	VAL	440	39.092	85.239	55.330	1.00	0.00	N
ATOM	4169	HN	VAL	440	38.689	86.144	55.571	1.00	0.00	H
ATOM	4170	CA	VAL	440	38.256	84.078	55.184	1.00	0.00	C
ATOM	4171	CB	VAL	440	37.926	83.401	56.493	1.00	0.00	C
ATOM	4172	CG1	VAL	440	36.941	84.235	57.324	1.00	0.00	C
ATOM	4173	CG2	VAL	440	37.455	81.981	56.179	1.00	0.00	C
ATOM	4174	C	VAL	440	37.015	84.467	54.431	1.00	0.00	C
ATOM	4175	O	VAL	440	36.202	85.258	54.903	1.00	0.00	O
ATOM	4176	N	SER	441	36.855	83.916	53.209	1.00	0.00	N
ATOM	4177	HN	SER	441	37.568	83.267	52.875	1.00	0.00	H
ATOM	4178	CA	SER	441	35.732	84.195	52.351	1.00	0.00	C
ATOM	4179	CB	SER	441	36.092	84.205	50.859	1.00	0.00	C
ATOM	4180	OG	SER	441	37.088	85.178	50.604	1.00	0.00	O
ATOM	4181	HG	SER	441	37.311	85.184	49.681	1.00	0.00	H
ATOM	4182	C	SER	441	34.737	83.084	52.491	1.00	0.00	C
ATOM	4183	O	SER	441	34.871	82.210	53.347	1.00	0.00	O
ATOM	4184	N	GLN	442	33.699	83.116	51.621	1.00	0.00	N
ATOM	4185	HN	GLN	442	33.713	83.799	50.863	1.00	0.00	H
ATOM	4186	CA	GLN	442	32.581	82.223	51.728	1.00	0.00	C
ATOM	4187	CB	GLN	442	31.451	82.625	50.758	1.00	0.00	C
ATOM	4188	CG	GLN	442	31.828	82.550	49.270	1.00	0.00	C
ATOM	4189	CD	GLN	442	32.867	83.623	48.968	1.00	0.00	C
ATOM	4190	OE1	GLN	442	34.061	83.343	48.874	1.00	0.00	O
ATOM	4191	NE2	GLN	442	32.401	84.892	48.816	1.00	0.00	N
ATOM	4192	1HE2	GLN	442	33.096	85.610	48.614	1.00	0.00	H
ATOM	4193	2HE2	GLN	442	31.411	85.124	48.894	1.00	0.00	H
ATOM	4194	C	GLN	442	32.850	80.758	51.536	1.00	0.00	C
ATOM	4195	O	GLN	442	32.952	80.038	52.527	1.00	0.00	O
ATOM	4196	N	GLU	443	33.116	80.264	50.307	1.00	0.00	N
ATOM	4197	HN	GLU	443	33.303	80.851	49.494	1.00	0.00	H
ATOM	4198	CA	GLU	443	33.108	78.831	50.262	1.00	0.00	C
ATOM	4199	CB	GLU	443	32.979	78.215	48.848	1.00	0.00	C
ATOM	4200	CG	GLU	443	34.260	78.151	48.018	1.00	0.00	C
ATOM	4201	CD	GLU	443	34.901	76.804	48.326	1.00	0.00	C
ATOM	4202	OE1	GLU	443	34.443	76.152	49.303	1.00	0.00	O
ATOM	4203	OE2	GLU	443	35.842	76.402	47.592	1.00	0.00	O
ATOM	4204	C	GLU	443	34.382	78.386	50.892	1.00	0.00	C
ATOM	4205	O	GLU	443	35.473	78.682	50.414	1.00	0.00	O
ATOM	4206	N	PRO	444	34.267	77.749	52.019	1.00	0.00	N
ATOM	4207	CA	PRO	444	35.401	77.263	52.737	1.00	0.00	C
ATOM	4208	CD	PRO	444	33.012	77.213	52.519	1.00	0.00	C
ATOM	4209	CB	PRO	444	34.838	76.719	54.045	1.00	0.00	C
ATOM	4210	CG	PRO	444	33.428	76.242	53.640	1.00	0.00	C
ATOM	4211	C	PRO	444	35.914	76.167	51.891	1.00	0.00	C
ATOM	4212	O	PRO	444	35.171	75.212	51.665	1.00	0.00	O
ATOM	4213	N	VAL	445	37.178	76.227	51.459	1.00	0.00	N
ATOM	4214	HN	VAL	445	37.812	76.991	51.693	1.00	0.00	H
ATOM	4215	CA	VAL	445	37.554	75.132	50.648	1.00	0.00	C

ATOM	4216	CB	VAL	445	38.042	75.515	49.283	1.00	0.00	C
ATOM	4217	CG1	VAL	445	39.296	76.397	49.424	1.00	0.00	C
ATOM	4218	CG2	VAL	445	38.278	74.214	48.495	1.00	0.00	C
ATOM	4219	C	VAL	445	38.646	74.393	51.305	1.00	0.00	C
ATOM	4220	O	VAL	445	39.597	74.974	51.825	1.00	0.00	O
ATOM	4221	N	LEU	446	38.505	73.061	51.278	1.00	0.00	N
ATOM	4222	HN	LEU	446	37.698	72.652	50.808	1.00	0.00	H
ATOM	4223	CA	LEU	446	39.460	72.208	51.893	1.00	0.00	C
ATOM	4224	CB	LEU	446	38.818	71.289	52.935	1.00	0.00	C
ATOM	4225	CG	LEU	446	38.147	72.082	54.064	1.00	0.00	C
ATOM	4226	CD1	LEU	446	37.429	71.140	55.040	1.00	0.00	C
ATOM	4227	CD2	LEU	446	39.152	73.029	54.741	1.00	0.00	C
ATOM	4228	C	LEU	446	39.941	71.328	50.802	1.00	0.00	C
ATOM	4229	O	LEU	446	39.160	70.645	50.140	1.00	0.00	O
ATOM	4230	N	PHE	447	41.260	71.323	50.600	1.00	0.00	N
ATOM	4231	HN	PHE	447	41.864	71.892	51.193	1.00	0.00	H
ATOM	4232	CA	PHE	447	41.830	70.534	49.569	1.00	0.00	C
ATOM	4233	CB	PHE	447	43.333	70.815	49.413	1.00	0.00	C
ATOM	4234	CG	PHE	447	43.465	72.302	49.350	1.00	0.00	C
ATOM	4235	CD1	PHE	447	43.364	72.985	48.160	1.00	0.00	C
ATOM	4236	CD2	PHE	447	43.668	73.021	50.506	1.00	0.00	C
ATOM	4237	CE1	PHE	447	43.479	74.356	48.125	1.00	0.00	C
ATOM	4238	CE2	PHE	447	43.784	74.391	50.479	1.00	0.00	C
ATOM	4239	CZ	PHE	447	43.693	75.062	49.284	1.00	0.00	C
ATOM	4240	C	PHE	447	41.650	69.113	49.995	1.00	0.00	C
ATOM	4241	O	PHE	447	41.418	68.832	51.169	1.00	0.00	O
ATOM	4242	N	ALA	448	41.703	68.155	49.054	1.00	0.00	N
ATOM	4243	HN	ALA	448	41.885	68.362	48.072	1.00	0.00	H
ATOM	4244	CA	ALA	448	41.485	66.821	49.531	1.00	0.00	C
ATOM	4245	CB	ALA	448	41.065	65.838	48.421	1.00	0.00	C
ATOM	4246	C	ALA	448	42.765	66.334	50.128	1.00	0.00	C
ATOM	4247	O	ALA	448	43.717	66.027	49.411	1.00	0.00	O
ATOM	4248	N	THR	449	42.795	66.263	51.478	1.00	0.00	N
ATOM	4249	HN	THR	449	41.958	66.548	51.987	1.00	0.00	H
ATOM	4250	CA	THR	449	43.925	65.814	52.244	1.00	0.00	C
ATOM	4251	CB	THR	449	45.098	66.760	52.267	1.00	0.00	C
ATOM	4252	OG1	THR	449	44.662	68.077	52.565	1.00	0.00	O
ATOM	4253	HG1	THR	449	45.401	68.673	52.579	1.00	0.00	H
ATOM	4254	CG2	THR	449	45.875	66.715	50.946	1.00	0.00	C
ATOM	4255	C	THR	449	43.516	65.636	53.674	1.00	0.00	C
ATOM	4256	O	THR	449	42.336	65.620	54.017	1.00	0.00	O
ATOM	4257	N	THR	450	44.525	65.482	54.555	1.00	0.00	N
ATOM	4258	HN	THR	450	45.485	65.478	54.209	1.00	0.00	H
ATOM	4259	CA	THR	450	44.295	65.324	55.957	1.00	0.00	C
ATOM	4260	CB	THR	450	45.512	64.850	56.696	1.00	0.00	C
ATOM	4261	OG1	THR	450	46.551	65.814	56.595	1.00	0.00	O
ATOM	4262	HG1	THR	450	47.321	65.514	57.063	1.00	0.00	H
ATOM	4263	CG2	THR	450	45.974	63.518	56.076	1.00	0.00	C
ATOM	4264	C	THR	450	43.935	66.669	56.493	1.00	0.00	C
ATOM	4265	O	THR	450	44.225	67.694	55.875	1.00	0.00	O
ATOM	4266	N	ILE	451	43.270	66.702	57.665	1.00	0.00	N
ATOM	4267	HN	ILE	451	43.022	65.838	58.147	1.00	0.00	H
ATOM	4268	CA	ILE	451	42.919	67.975	58.219	1.00	0.00	C
ATOM	4269	CB	ILE	451	42.091	67.868	59.464	1.00	0.00	C
ATOM	4270	CG1	ILE	451	40.723	67.286	59.077	1.00	0.00	C
ATOM	4271	CG2	ILE	451	42.011	69.247	60.142	1.00	0.00	C
ATOM	4272	CD1	ILE	451	39.814	66.985	60.260	1.00	0.00	C
ATOM	4273	C	ILE	451	44.192	68.691	58.508	1.00	0.00	C
ATOM	4274	O	ILE	451	44.342	69.868	58.175	1.00	0.00	O
ATOM	4275	N	ALA	452	45.179	67.967	59.068	1.00	0.00	N
ATOM	4276	HN	ALA	452	45.052	66.969	59.233	1.00	0.00	H
ATOM	4277	CA	ALA	452	46.410	68.606	59.431	1.00	0.00	C
ATOM	4278	CB	ALA	452	47.452	67.617	59.982	1.00	0.00	C
ATOM	4279	C	ALA	452	47.012	69.255	58.218	1.00	0.00	C
ATOM	4280	O	ALA	452	47.370	70.431	58.253	1.00	0.00	O
ATOM	4281	N	GLU	453	47.045	68.539	57.083	1.00	0.00	N
ATOM	4282	HN	GLU	453	46.606	67.618	57.063	1.00	0.00	H
ATOM	4283	CA	GLU	453	47.682	69.037	55.898	1.00	0.00	C
ATOM	4284	CB	GLU	453	47.513	68.083	54.704	1.00	0.00	C
ATOM	4285	CG	GLU	453	48.255	68.539	53.449	1.00	0.00	C
ATOM	4286	CD	GLU	453	49.722	68.174	53.610	1.00	0.00	C
ATOM	4287	OE1	GLU	453	50.032	67.340	54.502	1.00	0.00	O
ATOM	4288	OE2	GLU	453	50.554	68.724	52.840	1.00	0.00	O
ATOM	4289	C	GLU	453	47.050	70.339	55.504	1.00	0.00	C

ATOM	4290	O	GLU	453	47.742	71.243	55.042	1.00	0.00	O
ATOM	4291	N	ASN	454	45.718	70.475	55.649	1.00	0.00	N
ATOM	4292	HN	ASN	454	45.170	69.707	56.037	1.00	0.00	H
ATOM	4293	CA	ASN	454	45.062	71.696	55.260	1.00	0.00	C
ATOM	4294	CB	ASN	454	43.534	71.653	55.439	1.00	0.00	C
ATOM	4295	CG	ASN	454	42.935	70.833	54.303	1.00	0.00	C
ATOM	4296	OD1	ASN	454	43.010	71.219	53.137	1.00	0.00	O
ATOM	4297	ND2	ASN	454	42.323	69.670	54.651	1.00	0.00	N
ATOM	4298	1HD2	ASN	454	42.261	69.350	55.618	1.00	0.00	H
ATOM	4299	2HD2	ASN	454	41.922	69.121	53.891	1.00	0.00	H
ATOM	4300	C	ASN	454	45.574	72.827	56.095	1.00	0.00	C
ATOM	4301	O	ASN	454	45.934	73.880	55.573	1.00	0.00	O
ATOM	4302	N	ILE	455	45.659	72.630	57.422	1.00	0.00	N
ATOM	4303	HN	ILE	455	45.375	71.737	57.825	1.00	0.00	H
ATOM	4304	CA	ILE	455	46.150	73.679	58.272	1.00	0.00	C
ATOM	4305	CB	ILE	455	46.223	73.301	59.727	1.00	0.00	C
ATOM	4306	CG1	ILE	455	44.816	73.225	60.352	1.00	0.00	C
ATOM	4307	CG2	ILE	455	47.148	74.312	60.426	1.00	0.00	C
ATOM	4308	CD1	ILE	455	43.935	72.104	59.806	1.00	0.00	C
ATOM	4309	C	ILE	455	47.534	73.977	57.789	1.00	0.00	C
ATOM	4310	O	ILE	455	47.959	75.130	57.737	1.00	0.00	O
ATOM	4311	N	ARG	456	48.257	72.920	57.384	1.00	0.00	N
ATOM	4312	HN	ARG	456	47.822	71.998	57.424	1.00	0.00	H
ATOM	4313	CA	ARG	456	49.601	73.009	56.899	1.00	0.00	C
ATOM	4314	CB	ARG	456	50.166	71.641	56.497	1.00	0.00	C
ATOM	4315	CG	ARG	456	50.198	70.657	57.663	1.00	0.00	C
ATOM	4316	CD	ARG	456	50.670	69.263	57.265	1.00	0.00	C
ATOM	4317	NE	ARG	456	52.144	69.330	57.090	1.00	0.00	N
ATOM	4318	HE	ARG	456	52.585	70.185	56.751	1.00	0.00	H
ATOM	4319	CZ	ARG	456	52.899	68.235	57.388	1.00	0.00	C
ATOM	4320	NH1	ARG	456	52.289	67.087	57.805	1.00	0.00	N
ATOM	4321	1HH1	ARG	456	51.273	67.042	57.887	1.00	0.00	H
ATOM	4322	2HH1	ARG	456	52.854	66.268	58.028	1.00	0.00	H
ATOM	4323	NH2	ARG	456	54.257	68.295	57.279	1.00	0.00	N
ATOM	4324	1HH2	ARG	456	54.713	69.153	56.967	1.00	0.00	H
ATOM	4325	2HH2	ARG	456	54.822	67.476	57.502	1.00	0.00	H
ATOM	4326	C	ARG	456	49.609	73.859	55.666	1.00	0.00	C
ATOM	4327	O	ARG	456	50.570	74.569	55.408	1.00	0.00	O
ATOM	4328	N	TYR	457	48.557	73.813	54.839	1.00	0.00	N
ATOM	4329	HN	TYR	457	47.783	73.176	55.028	1.00	0.00	H
ATOM	4330	CA	TYR	457	48.525	74.666	53.683	1.00	0.00	C
ATOM	4331	CB	TYR	457	47.204	74.564	52.900	1.00	0.00	C
ATOM	4332	CG	TYR	457	47.234	73.417	51.945	1.00	0.00	C
ATOM	4333	CD1	TYR	457	47.161	72.107	52.363	1.00	0.00	C
ATOM	4334	CD2	TYR	457	47.361	73.674	50.600	1.00	0.00	C
ATOM	4335	CE1	TYR	457	47.193	71.082	51.442	1.00	0.00	C
ATOM	4336	CE2	TYR	457	47.392	72.659	49.677	1.00	0.00	C
ATOM	4337	CZ	TYR	457	47.306	71.356	50.099	1.00	0.00	C
ATOM	4338	OH	TYR	457	47.335	70.307	49.155	1.00	0.00	O
ATOM	4339	HH	TYR	457	47.275	69.405	49.447	1.00	0.00	H
ATOM	4340	C	TYR	457	48.622	76.060	54.196	1.00	0.00	C
ATOM	4341	O	TYR	457	49.265	76.918	53.593	1.00	0.00	O
ATOM	4342	N	GLY	458	47.990	76.307	55.355	1.00	0.00	N
ATOM	4343	HN	GLY	458	47.507	75.549	55.838	1.00	0.00	H
ATOM	4344	CA	GLY	458	47.987	77.619	55.918	1.00	0.00	C
ATOM	4345	C	GLY	458	49.409	78.020	56.109	1.00	0.00	C
ATOM	4346	O	GLY	458	49.780	79.158	55.827	1.00	0.00	O
ATOM	4347	N	ARG	459	50.246	77.100	56.620	1.00	0.00	N
ATOM	4348	HN	ARG	459	49.900	76.187	56.915	1.00	0.00	H
ATOM	4349	CA	ARG	459	51.634	77.430	56.741	1.00	0.00	C
ATOM	4350	CB	ARG	459	51.998	78.051	58.101	1.00	0.00	C
ATOM	4351	CG	ARG	459	53.450	78.519	58.200	1.00	0.00	C
ATOM	4352	CD	ARG	459	53.710	79.426	59.405	1.00	0.00	C
ATOM	4353	NE	ARG	459	53.299	78.682	60.628	1.00	0.00	N
ATOM	4354	HE	ARG	459	53.293	77.662	60.631	1.00	0.00	H
ATOM	4355	CZ	ARG	459	52.930	79.375	61.744	1.00	0.00	C
ATOM	4356	NH1	ARG	459	52.927	80.740	61.722	1.00	0.00	N
ATOM	4357	1HH1	ARG	459	52.651	81.258	62.556	1.00	0.00	H
ATOM	4358	2HH1	ARG	459	53.203	81.240	60.877	1.00	0.00	H
ATOM	4359	NH2	ARG	459	52.561	78.706	62.875	1.00	0.00	N
ATOM	4360	1HH2	ARG	459	52.285	79.224	63.709	1.00	0.00	H
ATOM	4361	2HH2	ARG	459	52.563	77.686	62.891	1.00	0.00	H
ATOM	4362	C	ARG	459	52.406	76.173	56.555	1.00	0.00	C
ATOM	4363	O	ARG	459	52.250	75.234	57.336	1.00	0.00	O

ATOM	4364	N	GLU	460	53.262	76.127	55.509	1.00	0.00	N
ATOM	4365	HN	GLU	460	53.431	76.972	54.964	1.00	0.00	H
ATOM	4366	CA	GLU	460	53.938	74.911	55.150	1.00	0.00	C
ATOM	4367	CB	GLU	460	54.960	75.133	54.017	1.00	0.00	C
ATOM	4368	CG	GLU	460	55.960	76.262	54.286	1.00	0.00	C
ATOM	4369	CD	GLU	460	55.231	77.596	54.132	1.00	0.00	C
ATOM	4370	OE1	GLU	460	54.724	77.872	53.012	1.00	0.00	O
ATOM	4371	OE2	GLU	460	55.157	78.348	55.141	1.00	0.00	O
ATOM	4372	C	GLU	460	54.664	74.387	56.367	1.00	0.00	C
ATOM	4373	O	GLU	460	54.318	73.320	56.875	1.00	0.00	O
ATOM	4374	N	ASN	461	55.619	75.145	56.948	1.00	0.00	N
ATOM	4375	HN	ASN	461	55.845	76.076	56.598	1.00	0.00	H
ATOM	4376	CA	ASN	461	56.304	74.585	58.081	1.00	0.00	C
ATOM	4377	CB	ASN	461	57.738	75.115	58.255	1.00	0.00	C
ATOM	4378	CG	ASN	461	58.476	74.175	59.198	1.00	0.00	C
ATOM	4379	OD1	ASN	461	57.882	73.273	59.786	1.00	0.00	O
ATOM	4380	ND2	ASN	461	59.810	74.392	59.351	1.00	0.00	N
ATOM	4381	1HD2	ASN	461	60.304	73.762	59.983	1.00	0.00	H
ATOM	4382	2HD2	ASN	461	60.303	75.140	58.863	1.00	0.00	H
ATOM	4383	C	ASN	461	55.522	74.922	59.324	1.00	0.00	C
ATOM	4384	O	ASN	461	55.119	76.067	59.521	1.00	0.00	O
ATOM	4385	N	VAL	462	55.262	73.915	60.192	1.00	0.00	N
ATOM	4386	HN	VAL	462	55.582	72.970	59.979	1.00	0.00	H
ATOM	4387	CA	VAL	462	54.539	74.165	61.412	1.00	0.00	C
ATOM	4388	CB	VAL	462	53.211	74.824	61.174	1.00	0.00	C
ATOM	4389	CG1	VAL	462	52.402	73.957	60.189	1.00	0.00	C
ATOM	4390	CG2	VAL	462	52.521	75.043	62.532	1.00	0.00	C
ATOM	4391	C	VAL	462	54.298	72.847	62.093	1.00	0.00	C
ATOM	4392	O	VAL	462	54.013	71.846	61.437	1.00	0.00	O
ATOM	4393	N	THR	463	54.378	72.813	63.441	1.00	0.00	N
ATOM	4394	HN	THR	463	54.557	73.670	63.965	1.00	0.00	H
ATOM	4395	CA	THR	463	54.210	71.566	64.134	1.00	0.00	C
ATOM	4396	CB	THR	463	55.087	71.434	65.352	1.00	0.00	C
ATOM	4397	OG1	THR	463	56.451	71.571	64.983	1.00	0.00	O
ATOM	4398	HG1	THR	463	56.588	72.424	64.588	1.00	0.00	H
ATOM	4399	CG2	THR	463	54.865	70.053	65.992	1.00	0.00	C
ATOM	4400	C	THR	463	52.780	71.404	64.557	1.00	0.00	C
ATOM	4401	O	THR	463	52.071	72.368	64.839	1.00	0.00	O
ATOM	4402	N	MET	464	52.360	70.134	64.688	1.00	0.00	N
ATOM	4403	HN	MET	464	53.053	69.401	64.537	1.00	0.00	H
ATOM	4404	CA	MET	464	51.029	69.711	65.020	1.00	0.00	C
ATOM	4405	CB	MET	464	50.908	68.179	65.069	1.00	0.00	C
ATOM	4406	CG	MET	464	49.566	67.666	65.587	1.00	0.00	C
ATOM	4407	SD	MET	464	49.411	67.659	67.400	1.00	0.00	S
ATOM	4408	CE	MET	464	47.782	66.854	67.405	1.00	0.00	C
ATOM	4409	C	MET	464	50.703	70.262	66.358	1.00	0.00	C
ATOM	4410	O	MET	464	49.537	70.433	66.696	1.00	0.00	O
ATOM	4411	N	ASP	465	51.719	70.498	67.194	1.00	0.00	N
ATOM	4412	HN	ASP	465	52.678	70.269	66.934	1.00	0.00	H
ATOM	4413	CA	ASP	465	51.419	71.081	68.464	1.00	0.00	C
ATOM	4414	CB	ASP	465	52.685	71.356	69.293	1.00	0.00	C
ATOM	4415	CG	ASP	465	53.216	70.021	69.796	1.00	0.00	C
ATOM	4416	OD1	ASP	465	52.796	69.601	70.907	1.00	0.00	O
ATOM	4417	OD2	ASP	465	54.031	69.393	69.069	1.00	0.00	O
ATOM	4418	C	ASP	465	50.758	72.393	68.181	1.00	0.00	C
ATOM	4419	O	ASP	465	49.751	72.734	68.801	1.00	0.00	O
ATOM	4420	N	GLU	466	51.305	73.160	67.215	1.00	0.00	N
ATOM	4421	HN	GLU	466	52.135	72.834	66.719	1.00	0.00	H
ATOM	4422	CA	GLU	466	50.728	74.430	66.881	1.00	0.00	C
ATOM	4423	CB	GLU	466	51.557	75.237	65.867	1.00	0.00	C
ATOM	4424	CG	GLU	466	52.865	75.782	66.445	1.00	0.00	C
ATOM	4425	CD	GLU	466	53.906	74.674	66.407	1.00	0.00	C
ATOM	4426	OE1	GLU	466	53.976	73.884	67.388	1.00	0.00	O
ATOM	4427	OE2	GLU	466	54.643	74.601	65.390	1.00	0.00	O
ATOM	4428	C	GLU	466	49.373	74.213	66.283	1.00	0.00	C
ATOM	4429	O	GLU	466	48.419	74.913	66.617	1.00	0.00	O
ATOM	4430	N	ILE	467	49.242	73.204	65.402	1.00	0.00	N
ATOM	4431	HN	ILE	467	50.042	72.603	65.206	1.00	0.00	H
ATOM	4432	CA	ILE	467	47.996	72.960	64.734	1.00	0.00	C
ATOM	4433	CB	ILE	467	48.047	71.732	63.868	1.00	0.00	C
ATOM	4434	CG1	ILE	467	49.270	71.755	62.934	1.00	0.00	C
ATOM	4435	CG2	ILE	467	46.705	71.626	63.124	1.00	0.00	C
ATOM	4436	CD1	ILE	467	49.356	72.976	62.028	1.00	0.00	C
ATOM	4437	C	ILE	467	46.977	72.670	65.795	1.00	0.00	C

ATOM	4438	O	ILE	467	45.873	73.210	65.785	1.00	0.00	O
ATOM	4439	N	GLU	468	47.355	71.833	66.776	1.00	0.00	N
ATOM	4440	HN	GLU	468	48.313	71.483	66.779	1.00	0.00	H
ATOM	4441	CA	GLU	468	46.468	71.413	67.817	1.00	0.00	C
ATOM	4442	CB	GLU	468	47.175	70.593	68.913	1.00	0.00	C
ATOM	4443	CG	GLU	468	46.242	70.097	70.021	1.00	0.00	C
ATOM	4444	CD	GLU	468	47.075	69.307	71.024	1.00	0.00	C
ATOM	4445	OE1	GLU	468	48.312	69.545	71.083	1.00	0.00	O
ATOM	4446	OE2	GLU	468	46.487	68.460	71.748	1.00	0.00	O
ATOM	4447	C	GLU	468	45.975	72.659	68.460	1.00	0.00	C
ATOM	4448	O	GLU	468	44.774	72.852	68.636	1.00	0.00	O
ATOM	4449	N	LYS	469	46.905	73.576	68.759	1.00	0.00	N
ATOM	4450	HN	LYS	469	47.886	73.398	68.545	1.00	0.00	H
ATOM	4451	CA	LYS	469	46.520	74.803	69.378	1.00	0.00	C
ATOM	4452	CB	LYS	469	47.738	75.714	69.650	1.00	0.00	C
ATOM	4453	CG	LYS	469	47.423	77.134	70.139	1.00	0.00	C
ATOM	4454	CD	LYS	469	46.890	78.066	69.043	1.00	0.00	C
ATOM	4455	CE	LYS	469	46.462	79.449	69.532	1.00	0.00	C
ATOM	4456	NZ	LYS	469	45.191	79.347	70.280	1.00	0.00	N
ATOM	4457	HZ1	LYS	469	44.905	80.270	70.606	1.00	0.00	H
ATOM	4458	HZ2	LYS	469	45.249	78.672	71.043	1.00	0.00	H
ATOM	4459	HZ3	LYS	469	44.460	78.891	69.733	1.00	0.00	H
ATOM	4460	C	LYS	469	45.582	75.509	68.454	1.00	0.00	C
ATOM	4461	O	LYS	469	44.512	75.954	68.868	1.00	0.00	O
ATOM	4462	N	ALA	470	45.928	75.574	67.156	1.00	0.00	N
ATOM	4463	HN	ALA	470	46.741	75.060	66.817	1.00	0.00	H
ATOM	4464	CA	ALA	470	45.151	76.367	66.251	1.00	0.00	C
ATOM	4465	CB	ALA	470	45.676	76.292	64.809	1.00	0.00	C
ATOM	4466	C	ALA	470	43.736	75.881	66.238	1.00	0.00	C
ATOM	4467	O	ALA	470	42.800	76.650	66.438	1.00	0.00	O
ATOM	4468	N	VAL	471	43.555	74.563	66.092	1.00	0.00	N
ATOM	4469	HN	VAL	471	44.379	73.962	66.072	1.00	0.00	H
ATOM	4470	CA	VAL	471	42.269	73.951	65.962	1.00	0.00	C
ATOM	4471	CB	VAL	471	42.454	72.459	65.978	1.00	0.00	C
ATOM	4472	CG1	VAL	471	41.115	71.736	65.834	1.00	0.00	C
ATOM	4473	CG2	VAL	471	43.499	72.103	64.909	1.00	0.00	C
ATOM	4474	C	VAL	471	41.446	74.316	67.151	1.00	0.00	C
ATOM	4475	O	VAL	471	40.367	74.893	67.022	1.00	0.00	O
ATOM	4476	N	LYS	472	41.987	74.068	68.357	1.00	0.00	N
ATOM	4477	HN	LYS	472	42.940	73.712	68.423	1.00	0.00	H
ATOM	4478	CA	LYS	472	41.227	74.303	69.549	1.00	0.00	C
ATOM	4479	CB	LYS	472	41.993	74.044	70.857	1.00	0.00	C
ATOM	4480	CG	LYS	472	42.034	72.582	71.301	1.00	0.00	C
ATOM	4481	CD	LYS	472	42.921	72.365	72.528	1.00	0.00	C
ATOM	4482	CE	LYS	472	42.764	70.990	73.178	1.00	0.00	C
ATOM	4483	NZ	LYS	472	43.432	69.960	72.354	1.00	0.00	N
ATOM	4484	HZ1	LYS	472	43.327	69.043	72.788	1.00	0.00	H
ATOM	4485	HZ2	LYS	472	44.410	70.189	72.176	1.00	0.00	H
ATOM	4486	HZ3	LYS	472	43.099	69.967	71.390	1.00	0.00	H
ATOM	4487	C	LYS	472	40.812	75.737	69.587	1.00	0.00	C
ATOM	4488	O	LYS	472	39.703	76.043	70.018	1.00	0.00	O
ATOM	4489	N	GLU	473	41.681	76.662	69.139	1.00	0.00	N
ATOM	4490	HN	GLU	473	42.581	76.389	68.744	1.00	0.00	H
ATOM	4491	CA	GLU	473	41.304	78.044	69.233	1.00	0.00	C
ATOM	4492	CB	GLU	473	42.404	79.022	68.790	1.00	0.00	C
ATOM	4493	CG	GLU	473	42.142	80.443	69.294	1.00	0.00	C
ATOM	4494	CD	GLU	473	43.247	81.351	68.779	1.00	0.00	C
ATOM	4495	OE1	GLU	473	43.211	81.676	67.562	1.00	0.00	O
ATOM	4496	OE2	GLU	473	44.132	81.737	69.586	1.00	0.00	O
ATOM	4497	C	GLU	473	40.102	78.288	68.362	1.00	0.00	C
ATOM	4498	O	GLU	473	39.190	79.035	68.710	1.00	0.00	O
ATOM	4499	N	ALA	474	40.120	77.656	67.182	1.00	0.00	N
ATOM	4500	HN	ALA	474	40.960	77.102	67.017	1.00	0.00	H
ATOM	4501	CA	ALA	474	39.168	77.618	66.107	1.00	0.00	C
ATOM	4502	CB	ALA	474	39.758	77.004	64.824	1.00	0.00	C
ATOM	4503	C	ALA	474	37.940	76.836	66.482	1.00	0.00	C
ATOM	4504	O	ALA	474	37.122	76.557	65.612	1.00	0.00	O
ATOM	4505	N	ASN	475	37.913	76.233	67.683	1.00	0.00	N
ATOM	4506	HN	ASN	475	38.721	76.361	68.292	1.00	0.00	H
ATOM	4507	CA	ASN	475	36.828	75.417	68.179	1.00	0.00	C
ATOM	4508	CB	ASN	475	35.504	76.135	68.555	1.00	0.00	C
ATOM	4509	CG	ASN	475	34.738	76.657	67.347	1.00	0.00	C
ATOM	4510	OD1	ASN	475	35.128	77.636	66.719	1.00	0.00	O
ATOM	4511	ND2	ASN	475	33.582	76.011	67.038	1.00	0.00	N

ATOM	4512	1HD2	ASN	475	33.258	75.197	67.560	1.00	0.00	H
ATOM	4513	2HD2	ASN	475	33.069	76.361	66.229	1.00	0.00	H
ATOM	4514	C	ASN	475	36.562	74.315	67.204	1.00	0.00	C
ATOM	4515	O	ASN	475	35.415	73.946	66.959	1.00	0.00	O
ATOM	4516	N	ALA	476	37.636	73.885	66.514	1.00	0.00	N
ATOM	4517	HN	ALA	476	38.493	74.424	66.636	1.00	0.00	H
ATOM	4518	CA	ALA	476	37.718	72.756	65.626	1.00	0.00	C
ATOM	4519	CB	ALA	476	38.779	72.936	64.528	1.00	0.00	C
ATOM	4520	C	ALA	476	37.962	71.464	66.351	1.00	0.00	C
ATOM	4521	O	ALA	476	37.604	70.388	65.880	1.00	0.00	O
ATOM	4522	N	TYR	477	38.605	71.550	67.527	1.00	0.00	N
ATOM	4523	HN	TYR	477	38.704	72.473	67.950	1.00	0.00	H
ATOM	4524	CA	TYR	477	39.163	70.427	68.229	1.00	0.00	C
ATOM	4525	CB	TYR	477	39.778	70.857	69.571	1.00	0.00	C
ATOM	4526	CG	TYR	477	40.518	69.695	70.130	1.00	0.00	C
ATOM	4527	CD1	TYR	477	41.687	69.280	69.535	1.00	0.00	C
ATOM	4528	CD2	TYR	477	40.066	69.041	71.253	1.00	0.00	C
ATOM	4529	CE1	TYR	477	42.388	68.212	70.042	1.00	0.00	C
ATOM	4530	CE2	TYR	477	40.765	67.972	71.763	1.00	0.00	C
ATOM	4531	CZ	TYR	477	41.927	67.557	71.157	1.00	0.00	C
ATOM	4532	OH	TYR	477	42.647	66.462	71.677	1.00	0.00	O
ATOM	4533	HH	TYR	477	42.328	66.009	72.449	1.00	0.00	H
ATOM	4534	C	TYR	477	38.159	69.336	68.487	1.00	0.00	C
ATOM	4535	O	TYR	477	38.523	68.162	68.470	1.00	0.00	O
ATOM	4536	N	ASP	478	36.891	69.656	68.795	1.00	0.00	N
ATOM	4537	HN	ASP	478	36.589	70.630	68.801	1.00	0.00	H
ATOM	4538	CA	ASP	478	35.966	68.600	69.117	1.00	0.00	C
ATOM	4539	CB	ASP	478	34.614	69.140	69.626	1.00	0.00	C
ATOM	4540	CG	ASP	478	33.980	70.010	68.547	1.00	0.00	C
ATOM	4541	OD1	ASP	478	34.319	71.221	68.478	1.00	0.00	O
ATOM	4542	OD2	ASP	478	33.143	69.470	67.775	1.00	0.00	O
ATOM	4543	C	ASP	478	35.680	67.649	67.975	1.00	0.00	C
ATOM	4544	O	ASP	478	35.923	66.449	68.095	1.00	0.00	O
ATOM	4545	N	PHE	479	35.205	68.157	66.819	1.00	0.00	N
ATOM	4546	HN	PHE	479	35.160	69.169	66.701	1.00	0.00	H
ATOM	4547	CA	PHE	479	34.760	67.304	65.749	1.00	0.00	C
ATOM	4548	CB	PHE	479	34.034	68.040	64.593	1.00	0.00	C
ATOM	4549	CG	PHE	479	34.940	68.910	63.777	1.00	0.00	C
ATOM	4550	CD1	PHE	479	35.772	68.357	62.828	1.00	0.00	C
ATOM	4551	CD2	PHE	479	34.929	70.280	63.922	1.00	0.00	C
ATOM	4552	CE1	PHE	479	36.596	69.150	62.060	1.00	0.00	C
ATOM	4553	CE2	PHE	479	35.751	71.078	63.156	1.00	0.00	C
ATOM	4554	CZ	PHE	479	36.589	70.515	62.222	1.00	0.00	C
ATOM	4555	C	PHE	479	35.921	66.562	65.189	1.00	0.00	C
ATOM	4556	O	PHE	479	35.813	65.388	64.841	1.00	0.00	O
ATOM	4557	N	ILE	480	37.074	67.236	65.101	1.00	0.00	N
ATOM	4558	HN	ILE	480	37.119	68.202	65.424	1.00	0.00	H
ATOM	4559	CA	ILE	480	38.240	66.619	64.561	1.00	0.00	C
ATOM	4560	CB	ILE	480	39.439	67.514	64.593	1.00	0.00	C
ATOM	4561	CG1	ILE	480	39.755	67.864	66.050	1.00	0.00	C
ATOM	4562	CG2	ILE	480	39.162	68.737	63.700	1.00	0.00	C
ATOM	4563	CD1	ILE	480	41.107	68.509	66.275	1.00	0.00	C
ATOM	4564	C	ILE	480	38.521	65.427	65.411	1.00	0.00	C
ATOM	4565	O	ILE	480	39.002	64.416	64.911	1.00	0.00	O
ATOM	4566	N	MET	481	38.303	65.543	66.736	1.00	0.00	N
ATOM	4567	HN	MET	481	37.986	66.433	67.121	1.00	0.00	H
ATOM	4568	CA	MET	481	38.514	64.424	67.608	1.00	0.00	C
ATOM	4569	CB	MET	481	38.440	64.795	69.096	1.00	0.00	C
ATOM	4570	CG	MET	481	39.611	65.669	69.534	1.00	0.00	C
ATOM	4571	SD	MET	481	41.227	64.935	69.143	1.00	0.00	S
ATOM	4572	CE	MET	481	40.840	63.327	69.893	1.00	0.00	C
ATOM	4573	C	MET	481	37.507	63.326	67.374	1.00	0.00	C
ATOM	4574	O	MET	481	37.886	62.163	67.248	1.00	0.00	O
ATOM	4575	N	LYS	482	36.198	63.665	67.287	1.00	0.00	N
ATOM	4576	HN	LYS	482	35.937	64.651	67.319	1.00	0.00	H
ATOM	4577	CA	LYS	482	35.162	62.667	67.150	1.00	0.00	C
ATOM	4578	CB	LYS	482	33.743	63.276	67.143	1.00	0.00	C
ATOM	4579	CG	LYS	482	32.592	62.257	67.151	1.00	0.00	C
ATOM	4580	CD	LYS	482	32.473	61.396	65.890	1.00	0.00	C
ATOM	4581	CE	LYS	482	31.322	60.386	65.930	1.00	0.00	C
ATOM	4582	NZ	LYS	482	31.216	59.677	64.635	1.00	0.00	N
ATOM	4583	HZ1	LYS	482	30.450	59.004	64.662	1.00	0.00	H
ATOM	4584	HZ2	LYS	482	32.098	59.239	64.368	1.00	0.00	H
ATOM	4585	HZ3	LYS	482	31.126	60.325	63.853	1.00	0.00	H

ATOM	4586	C	LYS	482	35.362	61.963	65.852	1.00	0.00	C
ATOM	4587	O	LYS	482	35.302	60.737	65.777	1.00	0.00	O
ATOM	4588	N	LEU	483	35.642	62.744	64.798	1.00	0.00	N
ATOM	4589	HN	LEU	483	35.692	63.753	64.935	1.00	0.00	H
ATOM	4590	CA	LEU	483	35.873	62.215	63.488	1.00	0.00	C
ATOM	4591	CB	LEU	483	36.420	63.310	62.552	1.00	0.00	C
ATOM	4592	CG	LEU	483	36.923	62.861	61.166	1.00	0.00	C
ATOM	4593	CD1	LEU	483	35.781	62.415	60.244	1.00	0.00	C
ATOM	4594	CD2	LEU	483	37.791	63.956	60.532	1.00	0.00	C
ATOM	4595	C	LEU	483	36.947	61.179	63.629	1.00	0.00	C
ATOM	4596	O	LEU	483	37.919	61.384	64.350	1.00	0.00	O
ATOM	4597	N	PRO	484	36.775	60.042	63.001	1.00	0.00	N
ATOM	4598	CA	PRO	484	37.688	58.948	63.161	1.00	0.00	C
ATOM	4599	CD	PRO	484	35.896	59.870	61.860	1.00	0.00	C
ATOM	4600	CB	PRO	484	37.238	57.880	62.165	1.00	0.00	C
ATOM	4601	CG	PRO	484	36.486	58.679	61.088	1.00	0.00	C
ATOM	4602	C	PRO	484	39.165	59.197	63.117	1.00	0.00	C
ATOM	4603	O	PRO	484	39.710	59.583	64.137	1.00	0.00	O
ATOM	4604	N	HIS	485	39.817	59.214	61.951	1.00	0.00	N
ATOM	4605	HN	HIS	485	39.284	59.292	61.085	1.00	0.00	H
ATOM	4606	CA	HIS	485	41.261	59.125	61.884	1.00	0.00	C
ATOM	4607	ND1	HIS	485	41.742	57.017	59.342	1.00	0.00	N
ATOM	4608	HD1	HIS	485	42.529	56.606	59.844	1.00	0.00	H
ATOM	4609	CG	HIS	485	41.240	58.292	59.500	1.00	0.00	C
ATOM	4610	CB	HIS	485	41.795	59.301	60.455	1.00	0.00	C
ATOM	4611	NE2	HIS	485	40.036	57.212	57.925	1.00	0.00	N
ATOM	4612	HE2	HIS	485	39.340	57.004	57.209	1.00	0.00	H
ATOM	4613	CD2	HIS	485	40.200	58.393	58.631	1.00	0.00	C
ATOM	4614	CE1	HIS	485	40.985	56.416	58.388	1.00	0.00	C
ATOM	4615	C	HIS	485	41.951	60.159	62.733	1.00	0.00	C
ATOM	4616	O	HIS	485	43.106	59.968	63.106	1.00	0.00	O
ATOM	4617	N	LYS	486	41.291	61.300	63.000	1.00	0.00	N
ATOM	4618	HN	LYS	486	40.373	61.426	62.575	1.00	0.00	H
ATOM	4619	CA	LYS	486	41.785	62.351	63.839	1.00	0.00	C
ATOM	4620	CB	LYS	486	42.756	61.920	64.994	1.00	0.00	C
ATOM	4621	CG	LYS	486	44.273	62.195	65.007	1.00	0.00	C
ATOM	4622	CD	LYS	486	45.121	61.652	63.858	1.00	0.00	C
ATOM	4623	CE	LYS	486	46.600	62.026	64.004	1.00	0.00	C
ATOM	4624	NZ	LYS	486	47.402	61.405	62.930	1.00	0.00	N
ATOM	4625	HZ1	LYS	486	48.386	61.654	63.027	1.00	0.00	H
ATOM	4626	HZ2	LYS	486	47.042	61.639	62.005	1.00	0.00	H
ATOM	4627	HZ3	LYS	486	47.269	60.394	62.894	1.00	0.00	H
ATOM	4628	C	LYS	486	42.262	63.397	62.876	1.00	0.00	C
ATOM	4629	O	LYS	486	41.583	63.645	61.883	1.00	0.00	O
ATOM	4630	N	PHE	487	43.400	64.057	63.134	1.00	0.00	N
ATOM	4631	HN	PHE	487	43.900	63.836	63.995	1.00	0.00	H
ATOM	4632	CA	PHE	487	43.953	65.057	62.267	1.00	0.00	C
ATOM	4633	CB	PHE	487	45.204	65.742	62.838	1.00	0.00	C
ATOM	4634	CG	PHE	487	44.789	66.631	63.959	1.00	0.00	C
ATOM	4635	CD1	PHE	487	44.236	67.863	63.694	1.00	0.00	C
ATOM	4636	CD2	PHE	487	44.964	66.243	65.267	1.00	0.00	C
ATOM	4637	CE1	PHE	487	43.858	68.694	64.720	1.00	0.00	C
ATOM	4638	CE2	PHE	487	44.588	67.071	66.297	1.00	0.00	C
ATOM	4639	CZ	PHE	487	44.035	68.299	66.025	1.00	0.00	C
ATOM	4640	C	PHE	487	44.366	64.415	60.987	1.00	0.00	C
ATOM	4641	O	PHE	487	44.397	65.044	59.929	1.00	0.00	O
ATOM	4642	N	ASP	488	44.762	63.145	61.100	1.00	0.00	N
ATOM	4643	HN	ASP	488	44.734	62.734	62.033	1.00	0.00	H
ATOM	4644	CA	ASP	488	45.221	62.309	60.039	1.00	0.00	C
ATOM	4645	CB	ASP	488	45.675	60.958	60.602	1.00	0.00	C
ATOM	4646	CG	ASP	488	46.159	60.085	59.469	1.00	0.00	C
ATOM	4647	OD1	ASP	488	46.797	60.614	58.520	1.00	0.00	O
ATOM	4648	OD2	ASP	488	45.880	58.860	59.544	1.00	0.00	O
ATOM	4649	C	ASP	488	44.089	62.068	59.090	1.00	0.00	C
ATOM	4650	O	ASP	488	44.322	61.689	57.942	1.00	0.00	O
ATOM	4651	N	THR	489	42.833	62.237	59.564	1.00	0.00	N
ATOM	4652	HN	THR	489	42.695	62.541	60.528	1.00	0.00	H
ATOM	4653	CA	THR	489	41.690	61.993	58.726	1.00	0.00	C
ATOM	4654	CB	THR	489	40.370	62.450	59.281	1.00	0.00	C
ATOM	4655	OG1	THR	489	40.421	63.834	59.587	1.00	0.00	O
ATOM	4656	HG1	THR	489	40.653	64.339	58.816	1.00	0.00	H
ATOM	4657	CG2	THR	489	39.997	61.639	60.520	1.00	0.00	C
ATOM	4658	C	THR	489	41.851	62.748	57.449	1.00	0.00	C
ATOM	4659	O	THR	489	42.546	63.759	57.376	1.00	0.00	O

ATOM	4660	N	LEU	490	41.203	62.222	56.396	1.00	0.00	N
ATOM	4661	HN	LEU	490	40.620	61.399	56.552	1.00	0.00	H
ATOM	4662	CA	LEU	490	41.283	62.750	55.065	1.00	0.00	C
ATOM	4663	CB	LEU	490	41.273	61.660	53.986	1.00	0.00	C
ATOM	4664	CG	LEU	490	40.383	60.458	54.359	1.00	0.00	C
ATOM	4665	CD1	LEU	490	38.997	60.883	54.865	1.00	0.00	C
ATOM	4666	CD2	LEU	490	40.264	59.502	53.168	1.00	0.00	C
ATOM	4667	C	LEU	490	40.102	63.608	54.774	1.00	0.00	C
ATOM	4668	O	LEU	490	39.346	64.001	55.660	1.00	0.00	O
ATOM	4669	N	VAL	491	39.962	63.992	53.491	1.00	0.00	N
ATOM	4670	HN	VAL	491	40.661	63.757	52.786	1.00	0.00	H
ATOM	4671	CA	VAL	491	38.795	64.742	53.159	1.00	0.00	C
ATOM	4672	CB	VAL	491	39.048	66.229	53.190	1.00	0.00	C
ATOM	4673	CG1	VAL	491	40.062	66.638	52.110	1.00	0.00	C
ATOM	4674	CG2	VAL	491	37.698	66.950	53.139	1.00	0.00	C
ATOM	4675	C	VAL	491	38.219	64.284	51.849	1.00	0.00	C
ATOM	4676	O	VAL	491	38.301	64.989	50.846	1.00	0.00	O
ATOM	4677	N	GLY	492	37.698	63.035	51.834	1.00	0.00	N
ATOM	4678	HN	GLY	492	37.938	62.440	52.627	1.00	0.00	H
ATOM	4679	CA	GLY	492	36.844	62.441	50.832	1.00	0.00	C
ATOM	4680	C	GLY	492	36.922	63.088	49.485	1.00	0.00	C
ATOM	4681	O	GLY	492	35.881	63.439	48.930	1.00	0.00	O
ATOM	4682	N	GLU	493	38.123	63.234	48.904	1.00	0.00	N
ATOM	4683	HN	GLU	493	38.967	62.926	49.386	1.00	0.00	H
ATOM	4684	CA	GLU	493	38.212	63.826	47.600	1.00	0.00	C
ATOM	4685	CB	GLU	493	37.669	62.904	46.495	1.00	0.00	C
ATOM	4686	CG	GLU	493	38.508	61.645	46.265	1.00	0.00	C
ATOM	4687	CD	GLU	493	39.665	62.012	45.349	1.00	0.00	C
ATOM	4688	OE1	GLU	493	39.635	63.133	44.774	1.00	0.00	O
ATOM	4689	OE2	GLU	493	40.594	61.173	45.209	1.00	0.00	O
ATOM	4690	C	GLU	493	37.476	65.127	47.484	1.00	0.00	C
ATOM	4691	O	GLU	493	36.324	65.152	47.056	1.00	0.00	O
ATOM	4692	N	ARG	494	38.113	66.223	47.954	1.00	0.00	N
ATOM	4693	HN	ARG	494	39.007	66.077	48.423	1.00	0.00	H
ATOM	4694	CA	ARG	494	37.640	67.578	47.851	1.00	0.00	C
ATOM	4695	CB	ARG	494	36.597	67.842	46.739	1.00	0.00	C
ATOM	4696	CG	ARG	494	36.648	69.247	46.122	1.00	0.00	C
ATOM	4697	CD	ARG	494	35.807	70.322	46.809	1.00	0.00	C
ATOM	4698	NE	ARG	494	36.005	71.586	46.041	1.00	0.00	N
ATOM	4699	HE	ARG	494	36.343	71.546	45.080	1.00	0.00	H
ATOM	4700	CZ	ARG	494	35.737	72.794	46.615	1.00	0.00	C
ATOM	4701	NH1	ARG	494	35.314	72.849	47.912	1.00	0.00	N
ATOM	4702	1HH1	ARG	494	35.114	73.752	48.341	1.00	0.00	H
ATOM	4703	2HH1	ARG	494	35.198	71.989	48.449	1.00	0.00	H
ATOM	4704	NH2	ARG	494	35.893	73.946	45.896	1.00	0.00	N
ATOM	4705	1HH2	ARG	494	35.693	74.849	46.325	1.00	0.00	H
ATOM	4706	2HH2	ARG	494	36.209	73.905	44.927	1.00	0.00	H
ATOM	4707	C	ARG	494	37.072	67.901	49.168	1.00	0.00	C
ATOM	4708	O	ARG	494	37.125	67.106	50.097	1.00	0.00	O
ATOM	4709	N	GLY	495	36.489	69.089	49.253	1.00	0.00	N
ATOM	4710	HN	GLY	495	36.455	69.663	48.410	1.00	0.00	H
ATOM	4711	CA	GLY	495	35.908	69.618	50.437	1.00	0.00	C
ATOM	4712	C	GLY	495	34.760	68.766	50.866	1.00	0.00	C
ATOM	4713	O	GLY	495	34.142	69.086	51.875	1.00	0.00	O
ATOM	4714	N	ALA	496	34.316	67.765	50.073	1.00	0.00	N
ATOM	4715	HN	ALA	496	34.798	67.471	49.224	1.00	0.00	H
ATOM	4716	CA	ALA	496	33.098	67.151	50.539	1.00	0.00	C
ATOM	4717	CB	ALA	496	32.117	66.865	49.393	1.00	0.00	C
ATOM	4718	C	ALA	496	33.224	65.867	51.315	1.00	0.00	C
ATOM	4719	O	ALA	496	33.171	64.787	50.730	1.00	0.00	O
ATOM	4720	N	GLN	497	33.582	65.903	52.615	1.00	0.00	N
ATOM	4721	HN	GLN	497	34.099	66.705	52.975	1.00	0.00	H
ATOM	4722	CA	GLN	497	33.241	64.820	53.499	1.00	0.00	C
ATOM	4723	CB	GLN	497	34.439	64.029	54.055	1.00	0.00	C
ATOM	4724	CG	GLN	497	35.419	64.748	54.972	1.00	0.00	C
ATOM	4725	CD	GLN	497	36.478	63.696	55.267	1.00	0.00	C
ATOM	4726	OE1	GLN	497	36.992	63.057	54.354	1.00	0.00	O
ATOM	4727	NE2	GLN	497	36.794	63.474	56.570	1.00	0.00	N
ATOM	4728	1HE2	GLN	497	36.367	64.005	57.329	1.00	0.00	H
ATOM	4729	2HE2	GLN	497	37.504	62.769	56.768	1.00	0.00	H
ATOM	4730	C	GLN	497	32.306	65.275	54.595	1.00	0.00	C
ATOM	4731	O	GLN	497	31.466	64.520	55.085	1.00	0.00	O
ATOM	4732	N	LEU	498	32.469	66.558	55.005	1.00	0.00	N
ATOM	4733	HN	LEU	498	33.040	67.170	54.422	1.00	0.00	H



ATOM	4734	CA	LEU	498	31.895	67.122	56.204	1.00	0.00	C
ATOM	4735	CB	LEU	498	32.979	67.509	57.232	1.00	0.00	C
ATOM	4736	CG	LEU	498	34.021	68.560	56.760	1.00	0.00	C
ATOM	4737	CD1	LEU	498	35.037	68.850	57.878	1.00	0.00	C
ATOM	4738	CD2	LEU	498	34.727	68.173	55.448	1.00	0.00	C
ATOM	4739	C	LEU	498	31.085	68.354	55.931	1.00	0.00	C
ATOM	4740	O	LEU	498	31.035	68.873	54.818	1.00	0.00	O
ATOM	4741	N	SER	499	30.417	68.850	56.998	1.00	0.00	N
ATOM	4742	HN	SER	499	30.542	68.396	57.903	1.00	0.00	H
ATOM	4743	CA	SER	499	29.542	69.984	56.918	1.00	0.00	C
ATOM	4744	CB	SER	499	28.720	70.209	58.197	1.00	0.00	C
ATOM	4745	OG	SER	499	29.575	70.596	59.262	1.00	0.00	O
ATOM	4746	HG	SER	499	29.067	70.735	60.053	1.00	0.00	H
ATOM	4747	C	SER	499	30.330	71.230	56.676	1.00	0.00	C
ATOM	4748	O	SER	499	31.405	71.443	57.235	1.00	0.00	O
ATOM	4749	N	GLY	500	29.733	72.132	55.879	1.00	0.00	N
ATOM	4750	HN	GLY	500	28.793	71.931	55.539	1.00	0.00	H
ATOM	4751	CA	GLY	500	30.351	73.361	55.484	1.00	0.00	C
ATOM	4752	C	GLY	500	30.688	74.090	56.733	1.00	0.00	C
ATOM	4753	O	GLY	500	31.637	74.874	56.774	1.00	0.00	O
ATOM	4754	N	GLY	501	29.884	73.872	57.787	1.00	0.00	N
ATOM	4755	HN	GLY	501	29.105	73.216	57.729	1.00	0.00	H
ATOM	4756	CA	GLY	501	30.156	74.590	58.991	1.00	0.00	C
ATOM	4757	C	GLY	501	31.544	74.252	59.442	1.00	0.00	C
ATOM	4758	O	GLY	501	32.358	75.145	59.661	1.00	0.00	O
ATOM	4759	N	GLN	502	31.871	72.951	59.536	1.00	0.00	N
ATOM	4760	HN	GLN	502	31.185	72.244	59.271	1.00	0.00	H
ATOM	4761	CA	GLN	502	33.163	72.535	60.001	1.00	0.00	C
ATOM	4762	CB	GLN	502	33.243	71.012	60.157	1.00	0.00	C
ATOM	4763	CG	GLN	502	32.278	70.496	61.222	1.00	0.00	C
ATOM	4764	CD	GLN	502	32.221	68.981	61.119	1.00	0.00	C
ATOM	4765	OE1	GLN	502	32.423	68.410	60.048	1.00	0.00	O
ATOM	4766	NE2	GLN	502	31.933	68.310	62.265	1.00	0.00	N
ATOM	4767	1HE2	GLN	502	31.895	67.293	62.196	1.00	0.00	H
ATOM	4768	2HE2	GLN	502	31.766	68.783	63.153	1.00	0.00	H
ATOM	4769	C	GLN	502	34.193	72.963	59.016	1.00	0.00	C
ATOM	4770	O	GLN	502	35.279	73.391	59.407	1.00	0.00	O
ATOM	4771	N	LYS	503	33.870	72.877	57.709	1.00	0.00	N
ATOM	4772	HN	LYS	503	32.940	72.565	57.429	1.00	0.00	H
ATOM	4773	CA	LYS	503	34.846	73.228	56.716	1.00	0.00	C
ATOM	4774	CB	LYS	503	34.331	73.208	55.268	1.00	0.00	C
ATOM	4775	CG	LYS	503	34.093	71.812	54.696	1.00	0.00	C
ATOM	4776	CD	LYS	503	33.562	71.833	53.260	1.00	0.00	C
ATOM	4777	CE	LYS	503	34.608	72.301	52.240	1.00	0.00	C
ATOM	4778	NZ	LYS	503	34.085	72.163	50.863	1.00	0.00	N
ATOM	4779	HZ1	LYS	503	34.780	72.474	50.185	1.00	0.00	H
ATOM	4780	HZ2	LYS	503	33.196	72.648	50.744	1.00	0.00	H
ATOM	4781	HZ3	LYS	503	33.766	71.213	50.671	1.00	0.00	H
ATOM	4782	C	LYS	503	35.290	74.623	56.984	1.00	0.00	C
ATOM	4783	O	LYS	503	36.483	74.862	57.169	1.00	0.00	O
ATOM	4784	N	GLN	504	34.330	75.552	57.135	1.00	0.00	N
ATOM	4785	HN	GLN	504	33.347	75.288	57.067	1.00	0.00	H
ATOM	4786	CA	GLN	504	34.693	76.918	57.393	1.00	0.00	C
ATOM	4787	CB	GLN	504	33.522	77.869	57.682	1.00	0.00	C
ATOM	4788	CG	GLN	504	33.079	78.689	56.480	1.00	0.00	C
ATOM	4789	CD	GLN	504	34.105	79.816	56.376	1.00	0.00	C
ATOM	4790	OE1	GLN	504	34.995	79.940	57.217	1.00	0.00	O
ATOM	4791	NE2	GLN	504	33.979	80.662	55.321	1.00	0.00	N
ATOM	4792	1HE2	GLN	504	34.664	81.415	55.252	1.00	0.00	H
ATOM	4793	2HE2	GLN	504	33.241	80.559	54.624	1.00	0.00	H
ATOM	4794	C	GLN	504	35.536	76.964	58.610	1.00	0.00	C
ATOM	4795	O	GLN	504	36.536	77.680	58.650	1.00	0.00	O
ATOM	4796	N	ARG	505	35.178	76.158	59.617	1.00	0.00	N
ATOM	4797	HN	ARG	505	34.400	75.507	59.513	1.00	0.00	H
ATOM	4798	CA	ARG	505	35.908	76.231	60.837	1.00	0.00	C
ATOM	4799	CB	ARG	505	35.379	75.262	61.898	1.00	0.00	C
ATOM	4800	CG	ARG	505	35.937	75.528	63.297	1.00	0.00	C
ATOM	4801	CD	ARG	505	35.151	74.772	64.360	1.00	0.00	C
ATOM	4802	NE	ARG	505	33.726	75.133	64.134	1.00	0.00	N
ATOM	4803	HE	ARG	505	33.440	76.112	64.128	1.00	0.00	H
ATOM	4804	CZ	ARG	505	32.804	74.149	63.935	1.00	0.00	C
ATOM	4805	NH1	ARG	505	33.168	72.843	64.069	1.00	0.00	N
ATOM	4806	1HH1	ARG	505	34.123	72.602	64.334	1.00	0.00	H
ATOM	4807	2HH1	ARG	505	32.478	72.107	63.920	1.00	0.00	H

ATOM	4808	NH2	ARG	505	31.526	74.472	63.581	1.00	0.00	N
ATOM	4809	1HH2	ARG	505	31.253	75.450	63.481	1.00	0.00	H
ATOM	4810	2HH2	ARG	505	30.836	73.736	63.432	1.00	0.00	H
ATOM	4811	C	ARG	505	37.334	75.891	60.583	1.00	0.00	C
ATOM	4812	O	ARG	505	38.220	76.651	60.970	1.00	0.00	O
ATOM	4813	N	ILE	506	37.595	74.779	59.863	1.00	0.00	N
ATOM	4814	HN	ILE	506	36.845	74.231	59.443	1.00	0.00	H
ATOM	4815	CA	ILE	506	38.970	74.400	59.713	1.00	0.00	C
ATOM	4816	CB	ILE	506	39.259	73.032	59.149	1.00	0.00	C
ATOM	4817	CG1	ILE	506	38.798	72.789	57.717	1.00	0.00	C
ATOM	4818	CG2	ILE	506	38.667	72.021	60.133	1.00	0.00	C
ATOM	4819	CD1	ILE	506	39.363	71.456	57.225	1.00	0.00	C
ATOM	4820	C	ILE	506	39.698	75.488	59.006	1.00	0.00	C
ATOM	4821	O	ILE	506	40.849	75.776	59.328	1.00	0.00	O
ATOM	4822	N	ALA	507	39.013	76.169	58.072	1.00	0.00	N
ATOM	4823	HN	ALA	507	38.042	75.930	57.873	1.00	0.00	H
ATOM	4824	CA	ALA	507	39.654	77.233	57.357	1.00	0.00	C
ATOM	4825	CB	ALA	507	38.686	77.970	56.418	1.00	0.00	C
ATOM	4826	C	ALA	507	40.129	78.248	58.343	1.00	0.00	C
ATOM	4827	O	ALA	507	41.285	78.667	58.312	1.00	0.00	O
ATOM	4828	N	ILE	508	39.263	78.602	59.303	1.00	0.00	N
ATOM	4829	HN	ILE	508	38.358	78.134	59.352	1.00	0.00	H
ATOM	4830	CA	ILE	508	39.573	79.619	60.262	1.00	0.00	C
ATOM	4831	CB	ILE	508	38.493	79.746	61.295	1.00	0.00	C
ATOM	4832	CG1	ILE	508	37.161	80.105	60.611	1.00	0.00	C
ATOM	4833	CG2	ILE	508	38.948	80.768	62.352	1.00	0.00	C
ATOM	4834	CD1	ILE	508	35.931	79.902	61.493	1.00	0.00	C
ATOM	4835	C	ILE	508	40.825	79.199	60.948	1.00	0.00	C
ATOM	4836	O	ILE	508	41.692	80.022	61.236	1.00	0.00	O
ATOM	4837	N	ALA	509	40.953	77.892	61.222	1.00	0.00	N
ATOM	4838	HN	ALA	509	40.201	77.242	60.993	1.00	0.00	H
ATOM	4839	CA	ALA	509	42.153	77.419	61.838	1.00	0.00	C
ATOM	4840	CB	ALA	509	42.129	75.904	62.104	1.00	0.00	C
ATOM	4841	C	ALA	509	43.301	77.690	60.913	1.00	0.00	C
ATOM	4842	O	ALA	509	44.328	78.216	61.336	1.00	0.00	O
ATOM	4843	N	ARG	510	43.150	77.385	59.606	1.00	0.00	N
ATOM	4844	HN	ARG	510	42.262	77.038	59.243	1.00	0.00	H
ATOM	4845	CA	ARG	510	44.289	77.568	58.745	1.00	0.00	C
ATOM	4846	CB	ARG	510	44.124	77.055	57.294	1.00	0.00	C
ATOM	4847	CG	ARG	510	43.006	77.655	56.439	1.00	0.00	C
ATOM	4848	CD	ARG	510	43.075	77.191	54.979	1.00	0.00	C
ATOM	4849	NE	ARG	510	41.829	77.640	54.293	1.00	0.00	N
ATOM	4850	HE	ARG	510	41.682	78.632	54.105	1.00	0.00	H
ATOM	4851	CZ	ARG	510	40.884	76.730	53.916	1.00	0.00	C
ATOM	4852	NH1	ARG	510	41.109	75.393	54.079	1.00	0.00	N
ATOM	4853	1HH1	ARG	510	40.403	74.713	53.797	1.00	0.00	H
ATOM	4854	2HH1	ARG	510	41.985	75.071	54.490	1.00	0.00	H
ATOM	4855	NH2	ARG	510	39.712	77.160	53.366	1.00	0.00	N
ATOM	4856	1HH2	ARG	510	39.006	76.480	53.084	1.00	0.00	H
ATOM	4857	2HH2	ARG	510	39.544	78.159	53.244	1.00	0.00	H
ATOM	4858	C	ARG	510	44.709	79.001	58.745	1.00	0.00	C
ATOM	4859	O	ARG	510	45.874	79.308	58.980	1.00	0.00	O
ATOM	4860	N	ALA	511	43.756	79.924	58.569	1.00	0.00	N
ATOM	4861	HN	ALA	511	42.790	79.630	58.423	1.00	0.00	H
ATOM	4862	CA	ALA	511	44.076	81.320	58.583	1.00	0.00	C
ATOM	4863	CB	ALA	511	42.841	82.213	58.370	1.00	0.00	C
ATOM	4864	C	ALA	511	44.634	81.626	59.933	1.00	0.00	C
ATOM	4865	O	ALA	511	45.500	82.484	60.087	1.00	0.00	O
ATOM	4866	N	LEU	512	44.135	80.910	60.954	1.00	0.00	N
ATOM	4867	HN	LEU	512	43.471	80.162	60.754	1.00	0.00	H
ATOM	4868	CA	LEU	512	44.505	81.162	62.312	1.00	0.00	C
ATOM	4869	CB	LEU	512	43.798	80.207	63.286	1.00	0.00	C
ATOM	4870	CG	LEU	512	43.859	80.682	64.745	1.00	0.00	C
ATOM	4871	CD1	LEU	512	45.283	80.676	65.325	1.00	0.00	C
ATOM	4872	CD2	LEU	512	43.175	82.053	64.852	1.00	0.00	C
ATOM	4873	C	LEU	512	45.985	80.966	62.476	1.00	0.00	C
ATOM	4874	O	LEU	512	46.638	81.731	63.184	1.00	0.00	O
ATOM	4875	N	VAL	513	46.549	79.916	61.847	1.00	0.00	N
ATOM	4876	HN	VAL	513	45.953	79.307	61.286	1.00	0.00	H
ATOM	4877	CA	VAL	513	47.953	79.615	61.931	1.00	0.00	C
ATOM	4878	CB	VAL	513	48.281	78.305	61.281	1.00	0.00	C
ATOM	4879	CG1	VAL	513	49.791	78.042	61.407	1.00	0.00	C
ATOM	4880	CG2	VAL	513	47.389	77.224	61.916	1.00	0.00	C
ATOM	4881	C	VAL	513	48.721	80.691	61.237	1.00	0.00	C

ATOM	4882	O	VAL	513	49.840	81.027	61.623	1.00	0.00	O
ATOM	4883	N	ARG	514	48.136	81.253	60.165	1.00	0.00	N
ATOM	4884	HN	ARG	514	47.216	80.929	59.867	1.00	0.00	H
ATOM	4885	CA	ARG	514	48.786	82.300	59.436	1.00	0.00	C
ATOM	4886	CB	ARG	514	47.982	82.794	58.225	1.00	0.00	C
ATOM	4887	CG	ARG	514	48.899	83.318	57.118	1.00	0.00	C
ATOM	4888	CD	ARG	514	49.757	82.186	56.542	1.00	0.00	C
ATOM	4889	NE	ARG	514	50.639	82.729	55.469	1.00	0.00	N
ATOM	4890	HE	ARG	514	51.579	83.054	55.696	1.00	0.00	H
ATOM	4891	CZ	ARG	514	50.186	82.790	54.184	1.00	0.00	C
ATOM	4892	NH1	ARG	514	48.889	82.476	53.913	1.00	0.00	N
ATOM	4893	1HH1	ARG	514	48.550	82.522	52.952	1.00	0.00	H
ATOM	4894	2HH1	ARG	514	48.258	82.199	54.665	1.00	0.00	H
ATOM	4895	NH2	ARG	514	51.030	83.160	53.178	1.00	0.00	N
ATOM	4896	1HH2	ARG	514	50.691	83.206	52.217	1.00	0.00	H
ATOM	4897	2HH2	ARG	514	52.002	83.395	53.381	1.00	0.00	H
ATOM	4898	C	ARG	514	48.981	83.449	60.392	1.00	0.00	C
ATOM	4899	O	ARG	514	49.946	84.200	60.274	1.00	0.00	O
ATOM	4900	N	ASN	515	48.031	83.609	61.341	1.00	0.00	N
ATOM	4901	HN	ASN	515	47.246	82.960	61.291	1.00	0.00	H
ATOM	4902	CA	ASN	515	47.974	84.577	62.421	1.00	0.00	C
ATOM	4903	CB	ASN	515	48.606	84.122	63.756	1.00	0.00	C
ATOM	4904	CG	ASN	515	50.126	84.046	63.709	1.00	0.00	C
ATOM	4905	OD1	ASN	515	50.746	83.940	62.655	1.00	0.00	O
ATOM	4906	ND2	ASN	515	50.750	84.090	64.916	1.00	0.00	N
ATOM	4907	1HD2	ASN	515	51.768	84.039	64.885	1.00	0.00	H
ATOM	4908	2HD2	ASN	515	50.235	84.178	65.792	1.00	0.00	H
ATOM	4909	C	ASN	515	48.435	85.963	62.053	1.00	0.00	C
ATOM	4910	O	ASN	515	49.549	86.389	62.352	1.00	0.00	O
ATOM	4911	N	PRO	516	47.541	86.641	61.382	1.00	0.00	N
ATOM	4912	CA	PRO	516	47.665	87.994	60.879	1.00	0.00	C
ATOM	4913	CD	PRO	516	46.400	85.953	60.809	1.00	0.00	C
ATOM	4914	CB	PRO	516	46.690	88.082	59.724	1.00	0.00	C
ATOM	4915	CG	PRO	516	45.615	87.050	60.088	1.00	0.00	C
ATOM	4916	C	PRO	516	47.310	89.066	61.869	1.00	0.00	C
ATOM	4917	O	PRO	516	46.976	88.766	63.012	1.00	0.00	O
ATOM	4918	N	LYS	517	47.543	90.333	61.473	1.00	0.00	N
ATOM	4919	HN	LYS	517	48.061	90.442	60.601	1.00	0.00	H
ATOM	4920	CA	LYS	517	47.151	91.548	62.130	1.00	0.00	C
ATOM	4921	CB	LYS	517	48.189	92.658	61.932	1.00	0.00	C
ATOM	4922	CG	LYS	517	49.576	92.182	62.367	1.00	0.00	C
ATOM	4923	CD	LYS	517	49.590	91.576	63.772	1.00	0.00	C
ATOM	4924	CE	LYS	517	50.904	90.880	64.127	1.00	0.00	C
ATOM	4925	NZ	LYS	517	51.079	89.667	63.298	1.00	0.00	N
ATOM	4926	HZ1	LYS	517	51.956	89.203	63.535	1.00	0.00	H
ATOM	4927	HZ2	LYS	517	51.014	89.874	62.301	1.00	0.00	H
ATOM	4928	HZ3	LYS	517	50.281	89.036	63.372	1.00	0.00	H
ATOM	4929	C	LYS	517	45.817	92.044	61.656	1.00	0.00	C
ATOM	4930	O	LYS	517	45.169	92.848	62.324	1.00	0.00	O
ATOM	4931	N	ILE	518	45.433	91.668	60.422	1.00	0.00	N
ATOM	4932	HN	ILE	518	46.021	91.026	59.890	1.00	0.00	H
ATOM	4933	CA	ILE	518	44.216	92.150	59.839	1.00	0.00	C
ATOM	4934	CB	ILE	518	44.470	92.995	58.627	1.00	0.00	C
ATOM	4935	CG1	ILE	518	45.390	94.165	59.011	1.00	0.00	C
ATOM	4936	CG2	ILE	518	43.122	93.455	58.052	1.00	0.00	C
ATOM	4937	CD1	ILE	518	45.953	94.926	57.814	1.00	0.00	C
ATOM	4938	C	ILE	518	43.416	90.954	59.429	1.00	0.00	C
ATOM	4939	O	ILE	518	43.969	89.935	59.014	1.00	0.00	O
ATOM	4940	N	LEU	519	42.077	91.030	59.567	1.00	0.00	N
ATOM	4941	HN	LEU	519	41.633	91.885	59.903	1.00	0.00	H
ATOM	4942	CA	LEU	519	41.293	89.876	59.229	1.00	0.00	C
ATOM	4943	CB	LEU	519	40.733	89.175	60.486	1.00	0.00	C
ATOM	4944	CG	LEU	519	40.157	87.758	60.286	1.00	0.00	C
ATOM	4945	CD1	LEU	519	39.618	87.198	61.611	1.00	0.00	C
ATOM	4946	CD2	LEU	519	39.134	87.683	59.144	1.00	0.00	C
ATOM	4947	C	LEU	519	40.141	90.349	58.393	1.00	0.00	C
ATOM	4948	O	LEU	519	39.400	91.240	58.798	1.00	0.00	O
ATOM	4949	N	LEU	520	39.966	89.773	57.185	1.00	0.00	N
ATOM	4950	HN	LEU	520	40.618	89.058	56.862	1.00	0.00	H
ATOM	4951	CA	LEU	520	38.865	90.166	56.356	1.00	0.00	C
ATOM	4952	CB	LEU	520	39.274	90.507	54.913	1.00	0.00	C
ATOM	4953	CG	LEU	520	40.222	91.712	54.799	1.00	0.00	C
ATOM	4954	CD1	LEU	520	41.539	91.452	55.544	1.00	0.00	C
ATOM	4955	CD2	LEU	520	40.445	92.103	53.329	1.00	0.00	C

ATOM	4956	C	LEU	520	37.941	89.000	56.263	1.00	0.00	C
ATOM	4957	O	LEU	520	38.366	87.873	56.018	1.00	0.00	O
ATOM	4958	N	LEU	521	36.635	89.233	56.480	1.00	0.00	N
ATOM	4959	HN	LEU	521	36.301	90.162	56.736	1.00	0.00	H
ATOM	4960	CA	LEU	521	35.727	88.133	56.340	1.00	0.00	C
ATOM	4961	CB	LEU	521	34.865	87.867	57.587	1.00	0.00	C
ATOM	4962	CG	LEU	521	35.686	87.558	58.853	1.00	0.00	C
ATOM	4963	CD1	LEU	521	36.421	88.812	59.359	1.00	0.00	C
ATOM	4964	CD2	LEU	521	34.825	86.884	59.934	1.00	0.00	C
ATOM	4965	C	LEU	521	34.798	88.500	55.225	1.00	0.00	C
ATOM	4966	O	LEU	521	33.993	89.420	55.359	1.00	0.00	O
ATOM	4967	N	ASP	522	34.879	87.784	54.086	1.00	0.00	N
ATOM	4968	HN	ASP	522	35.538	87.009	54.016	1.00	0.00	H
ATOM	4969	CA	ASP	522	34.038	88.113	52.972	1.00	0.00	C
ATOM	4970	CB	ASP	522	34.741	87.875	51.621	1.00	0.00	C
ATOM	4971	CG	ASP	522	34.053	88.695	50.537	1.00	0.00	C
ATOM	4972	OD1	ASP	522	32.935	89.213	50.796	1.00	0.00	O
ATOM	4973	OD2	ASP	522	34.652	88.829	49.437	1.00	0.00	O
ATOM	4974	C	ASP	522	32.834	87.226	53.033	1.00	0.00	C
ATOM	4975	O	ASP	522	32.756	86.202	52.356	1.00	0.00	O
ATOM	4976	N	GLU	523	31.847	87.620	53.856	1.00	0.00	N
ATOM	4977	HN	GLU	523	31.977	88.462	54.417	1.00	0.00	H
ATOM	4978	CA	GLU	523	30.614	86.890	53.968	1.00	0.00	C
ATOM	4979	CB	GLU	523	29.946	86.689	52.596	1.00	0.00	C
ATOM	4980	CG	GLU	523	29.594	87.985	51.864	1.00	0.00	C
ATOM	4981	CD	GLU	523	29.308	87.623	50.411	1.00	0.00	C
ATOM	4982	OE1	GLU	523	28.753	86.516	50.180	1.00	0.00	O
ATOM	4983	OE2	GLU	523	29.647	88.442	49.515	1.00	0.00	O
ATOM	4984	C	GLU	523	30.868	85.505	54.499	1.00	0.00	C
ATOM	4985	O	GLU	523	29.994	84.647	54.367	1.00	0.00	O
ATOM	4986	N	ALA	524	31.972	85.290	55.253	1.00	0.00	N
ATOM	4987	HN	ALA	524	32.495	86.085	55.620	1.00	0.00	H
ATOM	4988	CA	ALA	524	32.416	83.948	55.542	1.00	0.00	C
ATOM	4989	CB	ALA	524	33.600	83.928	56.521	1.00	0.00	C
ATOM	4990	C	ALA	524	31.333	83.065	56.121	1.00	0.00	C
ATOM	4991	O	ALA	524	30.933	82.117	55.457	1.00	0.00	O
ATOM	4992	N	THR	525	30.688	83.414	57.246	1.00	0.00	N
ATOM	4993	HN	THR	525	30.873	84.323	57.671	1.00	0.00	H
ATOM	4994	CA	THR	525	29.736	82.520	57.863	1.00	0.00	C
ATOM	4995	CB	THR	525	29.109	83.118	59.086	1.00	0.00	C
ATOM	4996	OG1	THR	525	28.263	82.166	59.711	1.00	0.00	O
ATOM	4997	HG1	THR	525	28.759	81.396	59.964	1.00	0.00	H
ATOM	4998	CG2	THR	525	28.306	84.365	58.676	1.00	0.00	C
ATOM	4999	C	THR	525	28.615	82.179	56.915	1.00	0.00	C
ATOM	5000	O	THR	525	28.066	81.082	56.998	1.00	0.00	O
ATOM	5001	N	SER	526	28.256	83.089	55.984	1.00	0.00	N
ATOM	5002	HN	SER	526	28.833	83.924	55.882	1.00	0.00	H
ATOM	5003	CA	SER	526	27.101	82.952	55.121	1.00	0.00	C
ATOM	5004	CB	SER	526	26.966	84.054	54.046	1.00	0.00	C
ATOM	5005	OG	SER	526	27.932	83.894	53.017	1.00	0.00	O
ATOM	5006	HG	SER	526	27.849	84.571	52.356	1.00	0.00	H
ATOM	5007	C	SER	526	27.015	81.630	54.427	1.00	0.00	C
ATOM	5008	O	SER	526	27.912	80.793	54.488	1.00	0.00	O
ATOM	5009	N	ALA	527	25.848	81.407	53.782	1.00	0.00	N
ATOM	5010	HN	ALA	527	25.132	82.133	53.808	1.00	0.00	H
ATOM	5011	CA	ALA	527	25.570	80.197	53.063	1.00	0.00	C
ATOM	5012	CB	ALA	527	26.465	80.007	51.827	1.00	0.00	C
ATOM	5013	C	ALA	527	25.816	79.054	53.992	1.00	0.00	C
ATOM	5014	O	ALA	527	26.448	78.069	53.612	1.00	0.00	O
ATOM	5015	N	LEU	528	25.332	79.179	55.244	1.00	0.00	N
ATOM	5016	HN	LEU	528	24.838	80.035	55.498	1.00	0.00	H
ATOM	5017	CA	LEU	528	25.488	78.148	56.232	1.00	0.00	C
ATOM	5018	CB	LEU	528	26.650	78.459	57.198	1.00	0.00	C
ATOM	5019	CG	LEU	528	26.893	77.397	58.281	1.00	0.00	C
ATOM	5020	CD1	LEU	528	27.352	76.073	57.647	1.00	0.00	C
ATOM	5021	CD2	LEU	528	27.864	77.905	59.360	1.00	0.00	C
ATOM	5022	C	LEU	528	24.219	78.169	57.036	1.00	0.00	C
ATOM	5023	O	LEU	528	23.489	79.158	57.010	1.00	0.00	O
ATOM	5024	N	ASP	529	23.896	77.090	57.778	1.00	0.00	N
ATOM	5025	HN	ASP	529	24.503	76.271	57.816	1.00	0.00	H
ATOM	5026	CA	ASP	529	22.659	77.141	58.514	1.00	0.00	C
ATOM	5027	CB	ASP	529	22.154	75.790	59.048	1.00	0.00	C
ATOM	5028	CG	ASP	529	23.162	75.256	60.044	1.00	0.00	C
ATOM	5029	OD1	ASP	529	24.145	74.614	59.589	1.00	0.00	O

ATOM	5030	OD2	ASP	529	22.957	75.467	61.269	1.00	0.00	O
ATOM	5031	C	ASP	529	22.811	78.097	59.670	1.00	0.00	C
ATOM	5032	O	ASP	529	23.929	78.436	60.051	1.00	0.00	O
ATOM	5033	N	THR	530	21.676	78.565	60.251	1.00	0.00	N
ATOM	5034	HN	THR	530	20.779	78.209	59.920	1.00	0.00	H
ATOM	5035	CA	THR	530	21.676	79.544	61.317	1.00	0.00	C
ATOM	5036	CB	THR	530	20.297	79.934	61.772	1.00	0.00	C
ATOM	5037	OG1	THR	530	20.386	80.945	62.765	1.00	0.00	O
ATOM	5038	HG1	THR	530	20.840	81.707	62.424	1.00	0.00	H
ATOM	5039	CG2	THR	530	19.563	78.701	62.323	1.00	0.00	C
ATOM	5040	C	THR	530	22.439	79.001	62.490	1.00	0.00	C
ATOM	5041	O	THR	530	23.349	79.659	62.987	1.00	0.00	O
ATOM	5042	N	GLU	531	22.158	77.756	62.920	1.00	0.00	N
ATOM	5043	HN	GLU	531	21.512	77.167	62.394	1.00	0.00	H
ATOM	5044	CA	GLU	531	22.771	77.258	64.123	1.00	0.00	C
ATOM	5045	CB	GLU	531	22.336	75.817	64.447	1.00	0.00	C
ATOM	5046	CG	GLU	531	22.941	75.254	65.736	1.00	0.00	C
ATOM	5047	CD	GLU	531	24.264	74.573	65.410	1.00	0.00	C
ATOM	5048	OE1	GLU	531	24.640	74.533	64.209	1.00	0.00	O
ATOM	5049	OE2	GLU	531	24.915	74.070	66.362	1.00	0.00	O
ATOM	5050	C	GLU	531	24.263	77.271	63.988	1.00	0.00	C
ATOM	5051	O	GLU	531	24.966	77.761	64.873	1.00	0.00	O
ATOM	5052	N	SER	532	24.788	76.762	62.860	1.00	0.00	N
ATOM	5053	HN	SER	532	24.168	76.434	62.119	1.00	0.00	H
ATOM	5054	CA	SER	532	26.211	76.674	62.684	1.00	0.00	C
ATOM	5055	CB	SER	532	26.596	76.041	61.343	1.00	0.00	C
ATOM	5056	OG	SER	532	26.082	74.724	61.278	1.00	0.00	O
ATOM	5057	HG	SER	532	26.321	74.331	60.446	1.00	0.00	H
ATOM	5058	C	SER	532	26.735	78.055	62.638	1.00	0.00	C
ATOM	5059	O	SER	532	27.729	78.359	63.294	1.00	0.00	O
ATOM	5060	N	GLU	533	26.005	78.938	61.926	1.00	0.00	N
ATOM	5061	HN	GLU	533	25.114	78.639	61.530	1.00	0.00	H
ATOM	5062	CA	GLU	533	26.444	80.280	61.710	1.00	0.00	C
ATOM	5063	CB	GLU	533	25.397	81.176	61.026	1.00	0.00	C
ATOM	5064	CG	GLU	533	25.238	80.923	59.526	1.00	0.00	C
ATOM	5065	CD	GLU	533	24.259	81.954	58.976	1.00	0.00	C
ATOM	5066	OE1	GLU	533	23.060	81.895	59.358	1.00	0.00	O
ATOM	5067	OE2	GLU	533	24.698	82.819	58.173	1.00	0.00	O
ATOM	5068	C	GLU	533	26.722	80.866	63.046	1.00	0.00	C
ATOM	5069	O	GLU	533	27.631	81.681	63.194	1.00	0.00	O
ATOM	5070	N	ALA	534	25.937	80.471	64.061	1.00	0.00	N
ATOM	5071	HN	ALA	534	25.165	79.821	63.912	1.00	0.00	H
ATOM	5072	CA	ALA	534	26.226	80.997	65.360	1.00	0.00	C
ATOM	5073	CB	ALA	534	25.213	80.535	66.418	1.00	0.00	C
ATOM	5074	C	ALA	534	27.582	80.528	65.799	1.00	0.00	C
ATOM	5075	O	ALA	534	28.462	81.338	66.079	1.00	0.00	O
ATOM	5076	N	VAL	535	27.821	79.203	65.765	1.00	0.00	N
ATOM	5077	HN	VAL	535	27.110	78.581	65.380	1.00	0.00	H
ATOM	5078	CA	VAL	535	29.052	78.640	66.257	1.00	0.00	C
ATOM	5079	CB	VAL	535	29.110	77.152	66.079	1.00	0.00	C
ATOM	5080	CG1	VAL	535	30.469	76.655	66.599	1.00	0.00	C
ATOM	5081	CG2	VAL	535	27.893	76.516	66.772	1.00	0.00	C
ATOM	5082	C	VAL	535	30.187	79.211	65.471	1.00	0.00	C
ATOM	5083	O	VAL	535	31.223	79.569	66.030	1.00	0.00	O
ATOM	5084	N	VAL	536	30.010	79.302	64.142	1.00	0.00	N
ATOM	5085	HN	VAL	536	29.111	79.025	63.748	1.00	0.00	H
ATOM	5086	CA	VAL	536	31.034	79.772	63.255	1.00	0.00	C
ATOM	5087	CB	VAL	536	30.609	79.708	61.814	1.00	0.00	C
ATOM	5088	CG1	VAL	536	31.694	80.366	60.945	1.00	0.00	C
ATOM	5089	CG2	VAL	536	30.332	78.238	61.447	1.00	0.00	C
ATOM	5090	C	VAL	536	31.364	81.192	63.567	1.00	0.00	C
ATOM	5091	O	VAL	536	32.532	81.538	63.729	1.00	0.00	O
ATOM	5092	N	GLN	537	30.355	82.071	63.696	1.00	0.00	N
ATOM	5093	HN	GLN	537	29.376	81.795	63.619	1.00	0.00	H
ATOM	5094	CA	GLN	537	30.753	83.418	63.948	1.00	0.00	C
ATOM	5095	CB	GLN	537	29.688	84.510	63.800	1.00	0.00	C
ATOM	5096	CG	GLN	537	28.574	84.547	64.826	1.00	0.00	C
ATOM	5097	CD	GLN	537	27.886	85.857	64.509	1.00	0.00	C
ATOM	5098	OE1	GLN	537	26.691	85.892	64.215	1.00	0.00	O
ATOM	5099	NE2	GLN	537	28.675	86.966	64.539	1.00	0.00	N
ATOM	5100	1HE2	GLN	537	29.665	86.937	64.783	1.00	0.00	H
ATOM	5101	2HE2	GLN	537	28.211	87.849	64.325	1.00	0.00	H
ATOM	5102	C	GLN	537	31.381	83.474	65.305	1.00	0.00	C
ATOM	5103	O	GLN	537	32.198	84.349	65.572	1.00	0.00	O

ATOM	5104	N	VAL	538	30.992	82.551	66.211	1.00	0.00	N
ATOM	5105	HN	VAL	538	30.287	81.862	65.950	1.00	0.00	H
ATOM	5106	CA	VAL	538	31.550	82.518	67.536	1.00	0.00	C
ATOM	5107	CB	VAL	538	30.985	81.421	68.385	1.00	0.00	C
ATOM	5108	CG1	VAL	538	31.791	81.370	69.693	1.00	0.00	C
ATOM	5109	CG2	VAL	538	29.485	81.689	68.600	1.00	0.00	C
ATOM	5110	C	VAL	538	33.035	82.316	67.464	1.00	0.00	C
ATOM	5111	O	VAL	538	33.786	82.973	68.183	1.00	0.00	O
ATOM	5112	N	ALA	539	33.504	81.387	66.611	1.00	0.00	N
ATOM	5113	HN	ALA	539	32.838	80.836	66.069	1.00	0.00	H
ATOM	5114	CA	ALA	539	34.911	81.143	66.436	1.00	0.00	C
ATOM	5115	CB	ALA	539	35.196	80.035	65.413	1.00	0.00	C
ATOM	5116	C	ALA	539	35.511	82.379	65.859	1.00	0.00	C
ATOM	5117	O	ALA	539	36.610	82.784	66.231	1.00	0.00	O
ATOM	5118	N	LEU	540	34.781	83.008	64.923	1.00	0.00	N
ATOM	5119	HN	LEU	540	33.857	82.649	64.683	1.00	0.00	H
ATOM	5120	CA	LEU	540	35.277	84.171	64.259	1.00	0.00	C
ATOM	5121	CB	LEU	540	34.231	84.791	63.314	1.00	0.00	C
ATOM	5122	CG	LEU	540	33.780	83.868	62.167	1.00	0.00	C
ATOM	5123	CD1	LEU	540	32.738	84.566	61.277	1.00	0.00	C
ATOM	5124	CD2	LEU	540	34.981	83.333	61.372	1.00	0.00	C
ATOM	5125	C	LEU	540	35.516	85.189	65.319	1.00	0.00	C
ATOM	5126	O	LEU	540	36.584	85.793	65.385	1.00	0.00	O
ATOM	5127	N	ASP	541	34.529	85.353	66.218	1.00	0.00	N
ATOM	5128	HN	ASP	541	33.718	84.736	66.176	1.00	0.00	H
ATOM	5129	CA	ASP	541	34.577	86.363	67.232	1.00	0.00	C
ATOM	5130	CB	ASP	541	33.316	86.369	68.112	1.00	0.00	C
ATOM	5131	CG	ASP	541	32.140	86.816	67.250	1.00	0.00	C
ATOM	5132	OD1	ASP	541	32.354	87.075	66.036	1.00	0.00	O
ATOM	5133	OD2	ASP	541	31.008	86.906	67.797	1.00	0.00	O
ATOM	5134	C	ASP	541	35.761	86.133	68.114	1.00	0.00	C
ATOM	5135	O	ASP	541	36.509	87.057	68.424	1.00	0.00	O
ATOM	5136	N	LYS	542	36.001	84.875	68.506	1.00	0.00	N
ATOM	5137	HN	LYS	542	35.401	84.119	68.176	1.00	0.00	H
ATOM	5138	CA	LYS	542	37.091	84.583	69.383	1.00	0.00	C
ATOM	5139	CB	LYS	542	37.210	83.079	69.666	1.00	0.00	C
ATOM	5140	CG	LYS	542	35.953	82.499	70.317	1.00	0.00	C
ATOM	5141	CD	LYS	542	35.871	80.973	70.265	1.00	0.00	C
ATOM	5142	CE	LYS	542	34.566	80.422	70.844	1.00	0.00	C
ATOM	5143	NZ	LYS	542	34.479	78.964	70.610	1.00	0.00	N
ATOM	5144	HZ1	LYS	542	33.609	78.597	70.996	1.00	0.00	H
ATOM	5145	HZ2	LYS	542	35.295	78.471	70.972	1.00	0.00	H
ATOM	5146	HZ3	LYS	542	34.587	78.729	69.623	1.00	0.00	H
ATOM	5147	C	LYS	542	38.343	85.012	68.688	1.00	0.00	C
ATOM	5148	O	LYS	542	39.320	85.378	69.335	1.00	0.00	O
ATOM	5149	N	ALA	543	38.381	84.862	67.353	1.00	0.00	N
ATOM	5150	HN	ALA	543	37.554	84.501	66.878	1.00	0.00	H
ATOM	5151	CA	ALA	543	39.540	85.190	66.567	1.00	0.00	C
ATOM	5152	CB	ALA	543	39.492	84.548	65.170	1.00	0.00	C
ATOM	5153	C	ALA	543	39.811	86.657	66.358	1.00	0.00	C
ATOM	5154	O	ALA	543	40.938	87.110	66.555	1.00	0.00	O
ATOM	5155	N	ARG	544	38.770	87.419	65.960	1.00	0.00	N
ATOM	5156	HN	ARG	544	37.836	87.017	66.042	1.00	0.00	H
ATOM	5157	CA	ARG	544	38.872	88.757	65.428	1.00	0.00	C
ATOM	5158	CB	ARG	544	37.544	89.268	64.834	1.00	0.00	C
ATOM	5159	CG	ARG	544	36.991	88.446	63.670	1.00	0.00	C
ATOM	5160	CD	ARG	544	35.932	89.197	62.851	1.00	0.00	C
ATOM	5161	NE	ARG	544	34.841	89.630	63.774	1.00	0.00	N
ATOM	5162	HE	ARG	544	34.967	90.471	64.338	1.00	0.00	H
ATOM	5163	CZ	ARG	544	33.677	88.922	63.878	1.00	0.00	C
ATOM	5164	NH1	ARG	544	33.489	87.783	63.148	1.00	0.00	N
ATOM	5165	1HH1	ARG	544	32.620	87.254	63.226	1.00	0.00	H
ATOM	5166	2HH1	ARG	544	34.229	87.454	62.528	1.00	0.00	H
ATOM	5167	NH2	ARG	544	32.688	89.362	64.707	1.00	0.00	N
ATOM	5168	1HH2	ARG	544	31.819	88.833	64.785	1.00	0.00	H
ATOM	5169	2HH2	ARG	544	32.828	90.213	65.252	1.00	0.00	H
ATOM	5170	C	ARG	544	39.317	89.848	66.337	1.00	0.00	C
ATOM	5171	O	ARG	544	40.164	90.606	65.908	1.00	0.00	O
ATOM	5172	N	LYS	545	38.831	89.974	67.587	1.00	0.00	N
ATOM	5173	HN	LYS	545	38.290	89.214	68.000	1.00	0.00	H
ATOM	5174	CA	LYS	545	39.072	91.181	68.346	1.00	0.00	C
ATOM	5175	CB	LYS	545	38.521	91.104	69.781	1.00	0.00	C
ATOM	5176	CG	LYS	545	37.005	90.904	69.865	1.00	0.00	C
ATOM	5177	CD	LYS	545	36.516	90.544	71.271	1.00	0.00	C

ATOM	5178	CE	LYS	545	35.006	90.310	71.357	1.00	0.00	C
ATOM	5179	NZ	LYS	545	34.629	89.935	72.738	1.00	0.00	N
ATOM	5180	HZ1	LYS	545	33.623	89.779	72.795	1.00	0.00	H
ATOM	5181	HZ2	LYS	545	34.949	90.622	73.421	1.00	0.00	H
ATOM	5182	HZ3	LYS	545	35.160	89.132	73.074	1.00	0.00	H
ATOM	5183	C	LYS	545	40.533	91.464	68.477	1.00	0.00	C
ATOM	5184	O	LYS	545	40.956	92.610	68.332	1.00	0.00	O
ATOM	5185	N	GLY	546	41.348	90.420	68.701	1.00	0.00	N
ATOM	5186	HN	GLY	546	40.955	89.480	68.742	1.00	0.00	H
ATOM	5187	CA	GLY	546	42.757	90.600	68.883	1.00	0.00	C
ATOM	5188	C	GLY	546	43.270	91.311	67.670	1.00	0.00	C
ATOM	5189	O	GLY	546	44.221	92.087	67.754	1.00	0.00	O
ATOM	5190	N	ARG	547	42.645	91.059	66.506	1.00	0.00	N
ATOM	5191	HN	ARG	547	41.825	90.452	66.510	1.00	0.00	H
ATOM	5192	CA	ARG	547	43.090	91.614	65.255	1.00	0.00	C
ATOM	5193	CB	ARG	547	43.196	90.540	64.161	1.00	0.00	C
ATOM	5194	CG	ARG	547	44.102	89.377	64.563	1.00	0.00	C
ATOM	5195	CD	ARG	547	44.164	88.249	63.531	1.00	0.00	C
ATOM	5196	NE	ARG	547	45.068	87.199	64.080	1.00	0.00	N
ATOM	5197	HE	ARG	547	46.051	87.171	63.809	1.00	0.00	H
ATOM	5198	CZ	ARG	547	44.564	86.276	64.950	1.00	0.00	C
ATOM	5199	NH1	ARG	547	43.244	86.329	65.296	1.00	0.00	N
ATOM	5200	1HH1	ARG	547	42.640	87.047	64.897	1.00	0.00	H
ATOM	5201	2HH1	ARG	547	42.867	85.639	65.946	1.00	0.00	H
ATOM	5202	NH2	ARG	547	45.373	85.314	65.484	1.00	0.00	N
ATOM	5203	1HH2	ARG	547	46.359	85.274	65.226	1.00	0.00	H
ATOM	5204	2HH2	ARG	547	44.996	84.624	66.134	1.00	0.00	H
ATOM	5205	C	ARG	547	42.164	92.695	64.722	1.00	0.00	C
ATOM	5206	O	ARG	547	40.961	92.737	64.957	1.00	0.00	O
ATOM	5207	N	THR	548	42.711	93.664	63.969	1.00	0.00	N
ATOM	5208	HN	THR	548	43.718	93.706	63.810	1.00	0.00	H
ATOM	5209	CA	THR	548	41.824	94.641	63.395	1.00	0.00	C
ATOM	5210	CB	THR	548	42.531	95.814	62.783	1.00	0.00	C
ATOM	5211	OG1	THR	548	43.282	95.400	61.650	1.00	0.00	O
ATOM	5212	HG1	THR	548	42.698	95.023	61.002	1.00	0.00	H
ATOM	5213	CG2	THR	548	43.475	96.424	63.830	1.00	0.00	C
ATOM	5214	C	THR	548	41.127	93.941	62.265	1.00	0.00	C
ATOM	5215	O	THR	548	41.787	93.295	61.452	1.00	0.00	O
ATOM	5216	N	THR	549	39.782	94.057	62.161	1.00	0.00	N
ATOM	5217	HN	THR	549	39.261	94.685	62.773	1.00	0.00	H
ATOM	5218	CA	THR	549	39.108	93.268	61.160	1.00	0.00	C
ATOM	5219	CB	THR	549	38.370	92.104	61.758	1.00	0.00	C
ATOM	5220	OG1	THR	549	39.277	91.155	62.282	1.00	0.00	O
ATOM	5221	HG1	THR	549	39.844	91.557	62.929	1.00	0.00	H
ATOM	5222	CG2	THR	549	37.459	91.458	60.719	1.00	0.00	C
ATOM	5223	C	THR	549	38.069	93.997	60.360	1.00	0.00	C
ATOM	5224	O	THR	549	37.139	94.601	60.890	1.00	0.00	O
ATOM	5225	N	ILE	550	38.158	93.868	59.019	1.00	0.00	N
ATOM	5226	HN	ILE	550	38.948	93.377	58.600	1.00	0.00	H
ATOM	5227	CA	ILE	550	37.130	94.429	58.189	1.00	0.00	C
ATOM	5228	CB	ILE	550	37.623	95.157	56.979	1.00	0.00	C
ATOM	5229	CG1	ILE	550	36.407	95.697	56.211	1.00	0.00	C
ATOM	5230	CG2	ILE	550	38.533	94.225	56.159	1.00	0.00	C
ATOM	5231	CD1	ILE	550	36.741	96.618	55.047	1.00	0.00	C
ATOM	5232	C	ILE	550	36.271	93.295	57.699	1.00	0.00	C
ATOM	5233	O	ILE	550	36.760	92.347	57.088	1.00	0.00	O
ATOM	5234	N	VAL	551	34.947	93.359	57.969	1.00	0.00	N
ATOM	5235	HN	VAL	551	34.566	94.155	58.480	1.00	0.00	H
ATOM	5236	CA	VAL	551	34.078	92.298	57.532	1.00	0.00	C
ATOM	5237	CB	VAL	551	33.406	91.572	58.662	1.00	0.00	C
ATOM	5238	CG1	VAL	551	32.489	92.561	59.405	1.00	0.00	C
ATOM	5239	CG2	VAL	551	32.656	90.363	58.081	1.00	0.00	C
ATOM	5240	C	VAL	551	32.983	92.856	56.666	1.00	0.00	C
ATOM	5241	O	VAL	551	32.368	93.872	56.988	1.00	0.00	O
ATOM	5242	N	ILE	552	32.708	92.177	55.532	1.00	0.00	N
ATOM	5243	HN	ILE	552	33.265	91.351	55.311	1.00	0.00	H
ATOM	5244	CA	ILE	552	31.664	92.567	54.621	1.00	0.00	C
ATOM	5245	CB	ILE	552	32.174	92.810	53.220	1.00	0.00	C
ATOM	5246	CG1	ILE	552	31.094	93.396	52.290	1.00	0.00	C
ATOM	5247	CG2	ILE	552	32.793	91.499	52.709	1.00	0.00	C
ATOM	5248	CD1	ILE	552	29.973	92.423	51.926	1.00	0.00	C
ATOM	5249	C	ILE	552	30.692	91.436	54.605	1.00	0.00	C
ATOM	5250	O	ILE	552	31.081	90.277	54.470	1.00	0.00	O
ATOM	5251	N	ALA	553	29.386	91.709	54.779	1.00	0.00	N

ATOM	5252	HN	ALA	553	29.019	92.654	54.895	1.00	0.00	H
ATOM	5253	CA	ALA	553	28.567	90.539	54.784	1.00	0.00	C
ATOM	5254	CB	ALA	553	28.749	89.679	56.046	1.00	0.00	C
ATOM	5255	C	ALA	553	27.118	90.872	54.691	1.00	0.00	C
ATOM	5256	O	ALA	553	26.690	92.024	54.760	1.00	0.00	O
ATOM	5257	N	HIS	554	26.354	89.811	54.387	1.00	0.00	N
ATOM	5258	HN	HIS	554	26.841	88.934	54.200	1.00	0.00	H
ATOM	5259	CA	HIS	554	24.935	89.785	54.299	1.00	0.00	C
ATOM	5260	ND1	HIS	554	24.484	90.008	51.186	1.00	0.00	N
ATOM	5261	HD1	HIS	554	23.887	90.780	51.484	1.00	0.00	H
ATOM	5262	CG	HIS	554	24.854	88.916	51.940	1.00	0.00	C
ATOM	5263	CB	HIS	554	24.416	88.690	53.355	1.00	0.00	C
ATOM	5264	NE2	HIS	554	25.783	88.751	49.889	1.00	0.00	N
ATOM	5265	HE2	HIS	554	26.317	88.409	49.090	1.00	0.00	H
ATOM	5266	CD2	HIS	554	25.645	88.158	51.133	1.00	0.00	C
ATOM	5267	CE1	HIS	554	25.067	89.859	49.969	1.00	0.00	C
ATOM	5268	C	HIS	554	24.231	89.611	55.628	1.00	0.00	C
ATOM	5269	O	HIS	554	23.110	90.085	55.786	1.00	0.00	O
ATOM	5270	N	ARG	555	24.824	88.913	56.621	1.00	0.00	N
ATOM	5271	HN	ARG	555	25.800	88.627	56.539	1.00	0.00	H
ATOM	5272	CA	ARG	555	24.061	88.576	57.800	1.00	0.00	C
ATOM	5273	CB	ARG	555	24.749	87.543	58.711	1.00	0.00	C
ATOM	5274	CG	ARG	555	24.888	86.151	58.098	1.00	0.00	C
ATOM	5275	CD	ARG	555	23.567	85.397	57.967	1.00	0.00	C
ATOM	5276	NE	ARG	555	22.773	86.086	56.911	1.00	0.00	N
ATOM	5277	HE	ARG	555	22.016	86.720	57.168	1.00	0.00	H
ATOM	5278	CZ	ARG	555	23.066	85.863	55.597	1.00	0.00	C
ATOM	5279	NH1	ARG	555	24.127	85.075	55.261	1.00	0.00	N
ATOM	5280	1HH1	ARG	555	24.346	84.908	54.279	1.00	0.00	H
ATOM	5281	2HH1	ARG	555	24.689	84.648	55.997	1.00	0.00	H
ATOM	5282	NH2	ARG	555	22.315	86.434	54.613	1.00	0.00	N
ATOM	5283	1HH2	ARG	555	22.534	86.267	53.631	1.00	0.00	H
ATOM	5284	2HH2	ARG	555	21.521	87.023	54.864	1.00	0.00	H
ATOM	5285	C	ARG	555	23.869	89.784	58.614	1.00	0.00	C
ATOM	5286	O	ARG	555	24.651	90.082	59.514	1.00	0.00	O
ATOM	5287	N	LEU	556	22.740	90.455	58.375	1.00	0.00	N
ATOM	5288	HN	LEU	556	22.078	90.119	57.675	1.00	0.00	H
ATOM	5289	CA	LEU	556	22.471	91.646	59.109	1.00	0.00	C
ATOM	5290	CB	LEU	556	21.127	92.316	58.757	1.00	0.00	C
ATOM	5291	CG	LEU	556	21.083	93.002	57.371	1.00	0.00	C
ATOM	5292	CD1	LEU	556	22.109	94.140	57.272	1.00	0.00	C
ATOM	5293	CD2	LEU	556	21.213	92.005	56.217	1.00	0.00	C
ATOM	5294	C	LEU	556	22.437	91.264	60.547	1.00	0.00	C
ATOM	5295	O	LEU	556	22.814	92.050	61.411	1.00	0.00	O
ATOM	5296	N	SER	557	22.009	90.027	60.845	1.00	0.00	N
ATOM	5297	HN	SER	557	21.720	89.381	60.111	1.00	0.00	H
ATOM	5298	CA	SER	557	21.969	89.639	62.230	1.00	0.00	C
ATOM	5299	CB	SER	557	21.505	88.185	62.427	1.00	0.00	C
ATOM	5300	OG	SER	557	22.462	87.281	61.893	1.00	0.00	O
ATOM	5301	HG	SER	557	22.176	86.383	62.015	1.00	0.00	H
ATOM	5302	C	SER	557	23.347	89.762	62.844	1.00	0.00	C
ATOM	5303	O	SER	557	23.495	90.301	63.939	1.00	0.00	O
ATOM	5304	N	THR	558	24.386	89.247	62.153	1.00	0.00	N
ATOM	5305	HN	THR	558	24.175	88.846	61.239	1.00	0.00	H
ATOM	5306	CA	THR	558	25.769	89.206	62.577	1.00	0.00	C
ATOM	5307	CB	THR	558	26.581	88.218	61.791	1.00	0.00	C
ATOM	5308	OG1	THR	558	26.736	88.660	60.452	1.00	0.00	O
ATOM	5309	HG1	THR	558	27.250	88.035	59.955	1.00	0.00	H
ATOM	5310	CG2	THR	558	25.841	86.869	61.798	1.00	0.00	C
ATOM	5311	C	THR	558	26.426	90.533	62.415	1.00	0.00	C
ATOM	5312	O	THR	558	27.555	90.742	62.857	1.00	0.00	O
ATOM	5313	N	VAL	559	25.795	91.410	61.629	1.00	0.00	N
ATOM	5314	HN	VAL	559	24.912	91.144	61.194	1.00	0.00	H
ATOM	5315	CA	VAL	559	26.329	92.707	61.386	1.00	0.00	C
ATOM	5316	CB	VAL	559	25.549	93.454	60.346	1.00	0.00	C
ATOM	5317	CG1	VAL	559	26.142	94.866	60.212	1.00	0.00	C
ATOM	5318	CG2	VAL	559	25.574	92.643	59.039	1.00	0.00	C
ATOM	5319	C	VAL	559	26.293	93.496	62.647	1.00	0.00	C
ATOM	5320	O	VAL	559	27.218	94.249	62.945	1.00	0.00	O
ATOM	5321	N	ARG	560	25.259	93.245	63.466	1.00	0.00	N
ATOM	5322	HN	ARG	560	24.691	92.417	63.284	1.00	0.00	H
ATOM	5323	CA	ARG	560	24.909	94.073	64.579	1.00	0.00	C
ATOM	5324	CB	ARG	560	23.903	93.368	65.501	1.00	0.00	C
ATOM	5325	CG	ARG	560	23.223	94.287	66.514	1.00	0.00	C



ATOM	5326	CD	ARG	560	22.146	95.164	65.878	1.00	0.00	C
ATOM	5327	NE	ARG	560	21.219	94.259	65.140	1.00	0.00	N
ATOM	5328	HE	ARG	560	20.414	93.859	65.622	1.00	0.00	H
ATOM	5329	CZ	ARG	560	21.436	93.960	63.825	1.00	0.00	C
ATOM	5330	NH1	ARG	560	22.471	94.537	63.149	1.00	0.00	N
ATOM	5331	1HH1	ARG	560	23.082	95.196	63.632	1.00	0.00	H
ATOM	5332	2HH1	ARG	560	22.633	94.314	62.167	1.00	0.00	H
ATOM	5333	NH2	ARG	560	20.618	93.078	63.179	1.00	0.00	N
ATOM	5334	1HH2	ARG	560	19.844	92.647	63.684	1.00	0.00	H
ATOM	5335	2HH2	ARG	560	20.780	92.855	62.197	1.00	0.00	H
ATOM	5336	C	ARG	560	26.113	94.410	65.427	1.00	0.00	C
ATOM	5337	O	ARG	560	26.385	95.590	65.654	1.00	0.00	O
ATOM	5338	N	ASN	561	26.915	93.421	65.868	1.00	0.00	N
ATOM	5339	HN	ASN	561	26.749	92.452	65.598	1.00	0.00	H
ATOM	5340	CA	ASN	561	28.014	93.771	66.732	1.00	0.00	C
ATOM	5341	CB	ASN	561	28.523	92.567	67.547	1.00	0.00	C
ATOM	5342	CG	ASN	561	28.981	91.486	66.577	1.00	0.00	C
ATOM	5343	OD1	ASN	561	28.261	91.116	65.651	1.00	0.00	O
ATOM	5344	ND2	ASN	561	30.222	90.970	66.787	1.00	0.00	N
ATOM	5345	1HD2	ASN	561	30.819	91.277	67.555	1.00	0.00	H
ATOM	5346	2HD2	ASN	561	30.529	90.246	66.137	1.00	0.00	H
ATOM	5347	C	ASN	561	29.169	94.305	65.929	1.00	0.00	C
ATOM	5348	O	ASN	561	30.298	93.828	66.042	1.00	0.00	O
ATOM	5349	N	ALA	562	28.935	95.372	65.143	1.00	0.00	N
ATOM	5350	HN	ALA	562	27.998	95.770	65.085	1.00	0.00	H
ATOM	5351	CA	ALA	562	30.007	95.944	64.390	1.00	0.00	C
ATOM	5352	CB	ALA	562	29.629	96.294	62.939	1.00	0.00	C
ATOM	5353	C	ALA	562	30.373	97.211	65.083	1.00	0.00	C
ATOM	5354	O	ALA	562	29.500	97.970	65.505	1.00	0.00	O
ATOM	5355	N	ASP	563	31.689	97.469	65.221	1.00	0.00	N
ATOM	5356	HN	ASP	563	32.378	96.807	64.864	1.00	0.00	H
ATOM	5357	CA	ASP	563	32.121	98.670	65.868	1.00	0.00	C
ATOM	5358	CB	ASP	563	33.653	98.812	65.938	1.00	0.00	C
ATOM	5359	CG	ASP	563	34.164	97.828	66.982	1.00	0.00	C
ATOM	5360	OD1	ASP	563	33.314	97.179	67.649	1.00	0.00	O
ATOM	5361	OD2	ASP	563	35.411	97.713	67.129	1.00	0.00	O
ATOM	5362	C	ASP	563	31.583	99.785	65.040	1.00	0.00	C
ATOM	5363	O	ASP	563	31.204	100.834	65.557	1.00	0.00	O
ATOM	5364	N	VAL	564	31.559	99.580	63.711	1.00	0.00	N
ATOM	5365	HN	VAL	564	31.943	98.715	63.329	1.00	0.00	H
ATOM	5366	CA	VAL	564	31.003	100.557	62.823	1.00	0.00	C
ATOM	5367	CB	VAL	564	31.988	101.628	62.448	1.00	0.00	C
ATOM	5368	CG1	VAL	564	33.219	100.973	61.798	1.00	0.00	C
ATOM	5369	CG2	VAL	564	31.271	102.653	61.553	1.00	0.00	C
ATOM	5370	C	VAL	564	30.553	99.848	61.578	1.00	0.00	C
ATOM	5371	O	VAL	564	31.005	98.741	61.289	1.00	0.00	O
ATOM	5372	N	ILE	565	29.622	100.474	60.822	1.00	0.00	N
ATOM	5373	HN	ILE	565	29.269	101.380	61.129	1.00	0.00	H
ATOM	5374	CA	ILE	565	29.110	99.908	59.599	1.00	0.00	C
ATOM	5375	CB	ILE	565	27.661	99.504	59.688	1.00	0.00	C
ATOM	5376	CG1	ILE	565	27.464	98.439	60.780	1.00	0.00	C
ATOM	5377	CG2	ILE	565	27.207	99.023	58.299	1.00	0.00	C
ATOM	5378	CD1	ILE	565	27.668	98.964	62.200	1.00	0.00	C
ATOM	5379	C	ILE	565	29.224	100.979	58.552	1.00	0.00	C
ATOM	5380	O	ILE	565	29.280	102.162	58.879	1.00	0.00	O
ATOM	5381	N	ALA	566	29.315	100.590	57.262	1.00	0.00	N
ATOM	5382	HN	ALA	566	29.321	99.596	57.034	1.00	0.00	H
ATOM	5383	CA	ALA	566	29.403	101.562	56.209	1.00	0.00	C
ATOM	5384	CB	ALA	566	30.808	101.675	55.593	1.00	0.00	C
ATOM	5385	C	ALA	566	28.459	101.144	55.115	1.00	0.00	C
ATOM	5386	O	ALA	566	28.254	99.956	54.864	1.00	0.00	O
ATOM	5387	N	GLY	567	27.869	102.127	54.404	1.00	0.00	N
ATOM	5388	HN	GLY	567	28.119	103.103	54.564	1.00	0.00	H
ATOM	5389	CA	GLY	567	26.884	101.779	53.419	1.00	0.00	C
ATOM	5390	C	GLY	567	27.492	101.729	52.062	1.00	0.00	C
ATOM	5391	O	GLY	567	28.028	102.711	51.556	1.00	0.00	O
ATOM	5392	N	PHE	568	27.374	100.550	51.432	1.00	0.00	N
ATOM	5393	HN	PHE	568	26.926	99.785	51.936	1.00	0.00	H
ATOM	5394	CA	PHE	568	27.833	100.293	50.105	1.00	0.00	C
ATOM	5395	CB	PHE	568	29.046	99.343	49.993	1.00	0.00	C
ATOM	5396	CG	PHE	568	30.288	100.008	50.487	1.00	0.00	C
ATOM	5397	CD1	PHE	568	30.917	100.975	49.736	1.00	0.00	C
ATOM	5398	CD2	PHE	568	30.850	99.636	51.687	1.00	0.00	C
ATOM	5399	CE1	PHE	568	32.068	101.580	50.188	1.00	0.00	C

ATOM	5400	CE2	PHE	568	32.001	100.237	52.143	1.00	0.00	C
ATOM	5401	CZ	PHE	568	32.612	101.214	51.395	1.00	0.00	C
ATOM	5402	C	PHE	568	26.710	99.595	49.420	1.00	0.00	C
ATOM	5403	O	PHE	568	25.704	99.241	50.035	1.00	0.00	O
ATOM	5404	N	ASP	569	26.847	99.434	48.097	1.00	0.00	N
ATOM	5405	HN	ASP	569	27.678	99.810	47.640	1.00	0.00	H
ATOM	5406	CA	ASP	569	25.874	98.757	47.303	1.00	0.00	C
ATOM	5407	CB	ASP	569	24.445	99.264	47.565	1.00	0.00	C
ATOM	5408	CG	ASP	569	23.459	98.326	46.888	1.00	0.00	C
ATOM	5409	OD1	ASP	569	23.525	98.197	45.637	1.00	0.00	O
ATOM	5410	OD2	ASP	569	22.617	97.735	47.615	1.00	0.00	O
ATOM	5411	C	ASP	569	26.245	99.096	45.904	1.00	0.00	C
ATOM	5412	O	ASP	569	25.642	99.965	45.278	1.00	0.00	O
ATOM	5413	N	ASP	570	27.195	98.336	45.343	1.00	0.00	N
ATOM	5414	HN	ASP	570	27.558	97.526	45.845	1.00	0.00	H
ATOM	5415	CA	ASP	570	27.704	98.654	44.042	1.00	0.00	C
ATOM	5416	CB	ASP	570	26.628	98.747	42.952	1.00	0.00	C
ATOM	5417	CG	ASP	570	27.307	98.718	41.591	1.00	0.00	C
ATOM	5418	OD1	ASP	570	28.567	98.719	41.549	1.00	0.00	O
ATOM	5419	OD2	ASP	570	26.568	98.694	40.571	1.00	0.00	O
ATOM	5420	C	ASP	570	28.435	99.965	44.003	1.00	0.00	C
ATOM	5421	O	ASP	570	28.081	100.841	43.220	1.00	0.00	O
ATOM	5422	N	GLY	571	29.478	100.144	44.841	1.00	0.00	N
ATOM	5423	HN	GLY	571	29.688	99.434	45.543	1.00	0.00	H
ATOM	5424	CA	GLY	571	30.297	101.323	44.757	1.00	0.00	C
ATOM	5425	C	GLY	571	29.612	102.591	45.228	1.00	0.00	C
ATOM	5426	O	GLY	571	29.485	103.529	44.444	1.00	0.00	O
ATOM	5427	N	VAL	572	29.092	102.668	46.478	1.00	0.00	N
ATOM	5428	HN	VAL	572	29.038	101.844	47.076	1.00	0.00	H
ATOM	5429	CA	VAL	572	28.615	103.958	46.939	1.00	0.00	C
ATOM	5430	CB	VAL	572	27.232	104.300	46.453	1.00	0.00	C
ATOM	5431	CG1	VAL	572	26.236	103.224	46.922	1.00	0.00	C
ATOM	5432	CG2	VAL	572	26.891	105.728	46.913	1.00	0.00	C
ATOM	5433	C	VAL	572	28.652	104.003	48.448	1.00	0.00	C
ATOM	5434	O	VAL	572	27.903	103.273	49.097	1.00	0.00	O
ATOM	5435	N	ILE	573	29.473	104.901	49.059	1.00	0.00	N
ATOM	5436	HN	ILE	573	29.995	105.576	48.500	1.00	0.00	H
ATOM	5437	CA	ILE	573	29.607	104.900	50.503	1.00	0.00	C
ATOM	5438	CB	ILE	573	31.051	104.930	50.956	1.00	0.00	C
ATOM	5439	CG1	ILE	573	31.200	104.652	52.467	1.00	0.00	C
ATOM	5440	CG2	ILE	573	31.702	106.233	50.462	1.00	0.00	C
ATOM	5441	CD1	ILE	573	30.657	105.736	53.396	1.00	0.00	C
ATOM	5442	C	ILE	573	28.823	106.034	51.120	1.00	0.00	C
ATOM	5443	O	ILE	573	29.208	107.198	51.041	1.00	0.00	O
ATOM	5444	N	VAL	574	27.591	105.742	51.598	1.00	0.00	N
ATOM	5445	HN	VAL	574	27.226	104.795	51.492	1.00	0.00	H
ATOM	5446	CA	VAL	574	26.784	106.740	52.253	1.00	0.00	C
ATOM	5447	CB	VAL	574	25.362	106.661	51.769	1.00	0.00	C
ATOM	5448	CG1	VAL	574	25.372	106.991	50.266	1.00	0.00	C
ATOM	5449	CG2	VAL	574	24.790	105.261	52.065	1.00	0.00	C
ATOM	5450	C	VAL	574	26.775	106.833	53.767	1.00	0.00	C
ATOM	5451	O	VAL	574	27.335	107.759	54.354	1.00	0.00	O
ATOM	5452	N	GLU	575	26.207	105.795	54.438	1.00	0.00	N
ATOM	5453	HN	GLU	575	26.034	104.922	53.940	1.00	0.00	H
ATOM	5454	CA	GLU	575	25.840	105.887	55.833	1.00	0.00	C
ATOM	5455	CB	GLU	575	24.444	105.289	56.092	1.00	0.00	C
ATOM	5456	CG	GLU	575	23.299	105.992	55.352	1.00	0.00	C
ATOM	5457	CD	GLU	575	22.057	105.117	55.478	1.00	0.00	C
ATOM	5458	OE1	GLU	575	22.219	103.901	55.768	1.00	0.00	O
ATOM	5459	OE2	GLU	575	20.931	105.642	55.283	1.00	0.00	O
ATOM	5460	C	GLU	575	26.794	105.111	56.680	1.00	0.00	C
ATOM	5461	O	GLU	575	26.817	103.882	56.628	1.00	0.00	O
ATOM	5462	N	LYS	576	27.582	105.816	57.521	1.00	0.00	N
ATOM	5463	HN	LYS	576	27.527	106.834	57.541	1.00	0.00	H
ATOM	5464	CA	LYS	576	28.497	105.127	58.386	1.00	0.00	C
ATOM	5465	CB	LYS	576	29.972	105.557	58.252	1.00	0.00	C
ATOM	5466	CG	LYS	576	30.643	105.036	56.976	1.00	0.00	C
ATOM	5467	CD	LYS	576	32.031	105.625	56.725	1.00	0.00	C
ATOM	5468	CE	LYS	576	32.705	105.114	55.450	1.00	0.00	C
ATOM	5469	NZ	LYS	576	34.081	105.649	55.370	1.00	0.00	N
ATOM	5470	HZ1	LYS	576	34.530	105.308	54.520	1.00	0.00	H
ATOM	5471	HZ2	LYS	576	34.626	105.437	56.206	1.00	0.00	H
ATOM	5472	HZ3	LYS	576	34.103	106.667	55.436	1.00	0.00	H
ATOM	5473	C	LYS	576	28.044	105.363	59.786	1.00	0.00	C

ATOM	5474	O	LYS	576	27.413	106.377	60.079	1.00	0.00	O
ATOM	5475	N	GLY	577	28.310	104.393	60.684	1.00	0.00	N
ATOM	5476	HN	GLY	577	28.789	103.540	60.396	1.00	0.00	H
ATOM	5477	CA	GLY	577	27.913	104.576	62.044	1.00	0.00	C
ATOM	5478	C	GLY	577	27.380	103.289	62.583	1.00	0.00	C
ATOM	5479	O	GLY	577	27.398	102.259	61.909	1.00	0.00	O
ATOM	5480	N	ASN	578	26.852	103.336	63.826	1.00	0.00	N
ATOM	5481	HN	ASN	578	26.771	104.228	64.314	1.00	0.00	H
ATOM	5482	CA	ASN	578	26.407	102.129	64.455	1.00	0.00	C
ATOM	5483	CB	ASN	578	26.291	102.161	65.994	1.00	0.00	C
ATOM	5484	CG	ASN	578	25.103	103.004	66.418	1.00	0.00	C
ATOM	5485	OD1	ASN	578	25.214	104.214	66.596	1.00	0.00	O
ATOM	5486	ND2	ASN	578	23.926	102.348	66.598	1.00	0.00	N
ATOM	5487	1HD2	ASN	578	23.127	102.915	66.883	1.00	0.00	H
ATOM	5488	2HD2	ASN	578	23.834	101.343	66.450	1.00	0.00	H
ATOM	5489	C	ASN	578	25.082	101.716	63.901	1.00	0.00	C
ATOM	5490	O	ASN	578	24.400	102.464	63.202	1.00	0.00	O
ATOM	5491	N	HIS	579	24.688	100.480	64.247	1.00	0.00	N
ATOM	5492	HN	HIS	579	25.230	99.990	64.959	1.00	0.00	H
ATOM	5493	CA	HIS	579	23.555	99.800	63.683	1.00	0.00	C
ATOM	5494	ND1	HIS	579	21.848	97.203	62.638	1.00	0.00	N
ATOM	5495	HD1	HIS	579	22.514	97.136	61.869	1.00	0.00	H
ATOM	5496	CG	HIS	579	22.070	97.773	63.870	1.00	0.00	C
ATOM	5497	CB	HIS	579	23.356	98.408	64.297	1.00	0.00	C
ATOM	5498	NE2	HIS	579	19.958	96.987	63.792	1.00	0.00	N
ATOM	5499	HE2	HIS	579	19.001	96.748	64.051	1.00	0.00	H
ATOM	5500	CD2	HIS	579	20.906	97.634	64.562	1.00	0.00	C
ATOM	5501	CE1	HIS	579	20.569	96.747	62.646	1.00	0.00	C
ATOM	5502	C	HIS	579	22.264	100.520	63.836	1.00	0.00	C
ATOM	5503	O	HIS	579	21.584	100.774	62.841	1.00	0.00	O
ATOM	5504	N	ASP	580	21.915	100.908	65.070	1.00	0.00	N
ATOM	5505	HN	ASP	580	22.573	100.781	65.839	1.00	0.00	H
ATOM	5506	CA	ASP	580	20.640	101.496	65.331	1.00	0.00	C
ATOM	5507	CB	ASP	580	20.506	101.934	66.797	1.00	0.00	C
ATOM	5508	CG	ASP	580	20.580	100.671	67.635	1.00	0.00	C
ATOM	5509	OD1	ASP	580	19.566	99.927	67.682	1.00	0.00	O
ATOM	5510	OD2	ASP	580	21.662	100.434	68.237	1.00	0.00	O
ATOM	5511	C	ASP	580	20.570	102.714	64.496	1.00	0.00	C
ATOM	5512	O	ASP	580	19.485	103.143	64.115	1.00	0.00	O
ATOM	5513	N	GLU	581	21.737	103.327	64.238	1.00	0.00	N
ATOM	5514	HN	GLU	581	22.602	102.934	64.609	1.00	0.00	H
ATOM	5515	CA	GLU	581	21.788	104.520	63.453	1.00	0.00	C
ATOM	5516	CB	GLU	581	23.201	105.111	63.402	1.00	0.00	C
ATOM	5517	CG	GLU	581	23.671	105.599	64.768	1.00	0.00	C
ATOM	5518	CD	GLU	581	25.098	106.098	64.614	1.00	0.00	C
ATOM	5519	OE1	GLU	581	25.671	105.914	63.508	1.00	0.00	O
ATOM	5520	OE2	GLU	581	25.637	106.656	65.606	1.00	0.00	O
ATOM	5521	C	GLU	581	21.371	104.239	62.040	1.00	0.00	C
ATOM	5522	O	GLU	581	20.579	104.986	61.473	1.00	0.00	O
ATOM	5523	N	LEU	582	21.899	103.160	61.427	1.00	0.00	N
ATOM	5524	HN	LEU	582	22.531	102.548	61.943	1.00	0.00	H
ATOM	5525	CA	LEU	582	21.584	102.858	60.053	1.00	0.00	C
ATOM	5526	CB	LEU	582	22.439	101.734	59.437	1.00	0.00	C
ATOM	5527	CG	LEU	582	23.903	102.129	59.183	1.00	0.00	C
ATOM	5528	CD1	LEU	582	23.982	103.348	58.261	1.00	0.00	C
ATOM	5529	CD2	LEU	582	24.687	102.306	60.484	1.00	0.00	C
ATOM	5530	C	LEU	582	20.160	102.432	59.881	1.00	0.00	C
ATOM	5531	O	LEU	582	19.556	102.697	58.841	1.00	0.00	O
ATOM	5532	N	MET	583	19.632	101.646	60.838	1.00	0.00	N
ATOM	5533	HN	MET	583	20.230	101.328	61.601	1.00	0.00	H
ATOM	5534	CA	MET	583	18.251	101.240	60.819	1.00	0.00	C
ATOM	5535	CB	MET	583	17.935	100.228	61.928	1.00	0.00	C
ATOM	5536	CG	MET	583	18.631	98.884	61.734	1.00	0.00	C
ATOM	5537	SD	MET	583	17.892	97.817	60.464	1.00	0.00	S
ATOM	5538	CE	MET	583	16.569	97.235	61.561	1.00	0.00	C
ATOM	5539	C	MET	583	17.410	102.445	61.106	1.00	0.00	C
ATOM	5540	O	MET	583	16.380	102.666	60.471	1.00	0.00	O
ATOM	5541	N	LYS	584	17.860	103.276	62.069	1.00	0.00	N
ATOM	5542	HN	LYS	584	18.759	103.079	62.509	1.00	0.00	H
ATOM	5543	CA	LYS	584	17.118	104.425	62.494	1.00	0.00	C
ATOM	5544	CB	LYS	584	17.826	105.257	63.580	1.00	0.00	C
ATOM	5545	CG	LYS	584	17.011	106.473	64.028	1.00	0.00	C
ATOM	5546	CD	LYS	584	17.540	107.149	65.292	1.00	0.00	C
ATOM	5547	CE	LYS	584	18.376	108.397	65.006	1.00	0.00	C

ATOM	5548	NZ	LYS	584	18.692	109.096	66.272	1.00	0.00	N
ATOM	5549	HZ1	LYS	584	19.250	109.928	66.081	1.00	0.00	H
ATOM	5550	HZ2	LYS	584	19.145	108.479	66.947	1.00	0.00	H
ATOM	5551	HZ3	LYS	584	17.852	109.313	66.809	1.00	0.00	H
ATOM	5552	C	LYS	584	16.975	105.299	61.303	1.00	0.00	C
ATOM	5553	O	LYS	584	15.951	105.959	61.120	1.00	0.00	O
ATOM	5554	N	GLU	585	18.035	105.326	60.478	1.00	0.00	N
ATOM	5555	HN	GLU	585	18.857	104.769	60.712	1.00	0.00	H
ATOM	5556	CA	GLU	585	18.047	106.108	59.286	1.00	0.00	C
ATOM	5557	CB	GLU	585	19.426	106.137	58.606	1.00	0.00	C
ATOM	5558	CG	GLU	585	19.634	107.386	57.746	1.00	0.00	C
ATOM	5559	CD	GLU	585	19.764	108.588	58.681	1.00	0.00	C
ATOM	5560	OE1	GLU	585	19.138	108.577	59.773	1.00	0.00	O
ATOM	5561	OE2	GLU	585	20.499	109.542	58.313	1.00	0.00	O
ATOM	5562	C	GLU	585	17.025	105.531	58.356	1.00	0.00	C
ATOM	5563	O	GLU	585	16.361	106.265	57.626	1.00	0.00	O
ATOM	5564	N	LYS	586	16.849	104.193	58.386	1.00	0.00	N
ATOM	5565	HN	LYS	586	17.387	103.629	59.045	1.00	0.00	H
ATOM	5566	CA	LYS	586	15.914	103.552	57.502	1.00	0.00	C
ATOM	5567	CB	LYS	586	14.496	104.145	57.593	1.00	0.00	C
ATOM	5568	CG	LYS	586	13.806	103.966	58.949	1.00	0.00	C
ATOM	5569	CD	LYS	586	13.562	102.505	59.334	1.00	0.00	C
ATOM	5570	CE	LYS	586	12.865	102.341	60.686	1.00	0.00	C
ATOM	5571	NZ	LYS	586	12.449	100.934	60.877	1.00	0.00	N
ATOM	5572	HZ1	LYS	586	11.984	100.825	61.778	1.00	0.00	H
ATOM	5573	HZ2	LYS	586	13.230	100.287	60.770	1.00	0.00	H
ATOM	5574	HZ3	LYS	586	11.871	100.599	60.106	1.00	0.00	H
ATOM	5575	C	LYS	586	16.410	103.827	56.131	1.00	0.00	C
ATOM	5576	O	LYS	586	15.636	103.986	55.187	1.00	0.00	O
ATOM	5577	N	GLY	587	17.747	103.868	56.000	1.00	0.00	N
ATOM	5578	HN	GLY	587	18.335	103.681	56.813	1.00	0.00	H
ATOM	5579	CA	GLY	587	18.360	104.167	54.750	1.00	0.00	C
ATOM	5580	C	GLY	587	18.742	102.883	54.096	1.00	0.00	C
ATOM	5581	O	GLY	587	17.973	101.921	54.051	1.00	0.00	O
ATOM	5582	N	ILE	588	19.970	102.857	53.553	1.00	0.00	N
ATOM	5583	HN	ILE	588	20.590	103.659	53.666	1.00	0.00	H
ATOM	5584	CA	ILE	588	20.415	101.717	52.820	1.00	0.00	C
ATOM	5585	CB	ILE	588	21.812	101.900	52.301	1.00	0.00	C
ATOM	5586	CG1	ILE	588	21.879	103.087	51.331	1.00	0.00	C
ATOM	5587	CG2	ILE	588	22.258	100.571	51.671	1.00	0.00	C
ATOM	5588	CD1	ILE	588	21.056	102.874	50.063	1.00	0.00	C
ATOM	5589	C	ILE	588	20.462	100.522	53.712	1.00	0.00	C
ATOM	5590	O	ILE	588	19.895	99.477	53.386	1.00	0.00	O
ATOM	5591	N	TYR	589	21.083	100.675	54.898	1.00	0.00	N
ATOM	5592	HN	TYR	589	21.393	101.602	55.189	1.00	0.00	H
ATOM	5593	CA	TYR	589	21.312	99.548	55.755	1.00	0.00	C
ATOM	5594	CB	TYR	589	21.922	100.004	57.090	1.00	0.00	C
ATOM	5595	CG	TYR	589	22.246	98.806	57.906	1.00	0.00	C
ATOM	5596	CD1	TYR	589	23.382	98.076	57.648	1.00	0.00	C
ATOM	5597	CD2	TYR	589	21.422	98.419	58.933	1.00	0.00	C
ATOM	5598	CE1	TYR	589	23.691	96.972	58.402	1.00	0.00	C
ATOM	5599	CE2	TYR	589	21.726	97.316	59.692	1.00	0.00	C
ATOM	5600	CZ	TYR	589	22.862	96.590	59.429	1.00	0.00	C
ATOM	5601	OH	TYR	589	23.165	95.459	60.216	1.00	0.00	O
ATOM	5602	HH	TYR	589	22.592	95.195	60.926	1.00	0.00	H
ATOM	5603	C	TYR	589	20.003	98.876	56.041	1.00	0.00	C
ATOM	5604	O	TYR	589	19.796	97.705	55.720	1.00	0.00	O
ATOM	5605	N	PHE	590	19.038	99.659	56.530	1.00	0.00	N
ATOM	5606	HN	PHE	590	19.228	100.655	56.643	1.00	0.00	H
ATOM	5607	CA	PHE	590	17.748	99.162	56.902	1.00	0.00	C
ATOM	5608	CB	PHE	590	16.823	100.294	57.394	1.00	0.00	C
ATOM	5609	CG	PHE	590	15.438	99.766	57.541	1.00	0.00	C
ATOM	5610	CD1	PHE	590	15.035	99.116	58.686	1.00	0.00	C
ATOM	5611	CD2	PHE	590	14.530	99.929	56.519	1.00	0.00	C
ATOM	5612	CE1	PHE	590	13.751	98.637	58.805	1.00	0.00	C
ATOM	5613	CE2	PHE	590	13.245	99.455	56.632	1.00	0.00	C
ATOM	5614	CZ	PHE	590	12.855	98.804	57.777	1.00	0.00	C
ATOM	5615	C	PHE	590	17.105	98.537	55.697	1.00	0.00	C
ATOM	5616	O	PHE	590	16.600	97.413	55.746	1.00	0.00	O
ATOM	5617	N	LYS	591	17.159	99.249	54.558	1.00	0.00	N
ATOM	5618	HN	LYS	591	17.710	100.107	54.548	1.00	0.00	H
ATOM	5619	CA	LYS	591	16.481	98.861	53.359	1.00	0.00	C
ATOM	5620	CB	LYS	591	16.762	99.853	52.218	1.00	0.00	C
ATOM	5621	CG	LYS	591	16.122	99.512	50.872	1.00	0.00	C

ATOM	5622	CD	LYS	591	16.085	100.716	49.931	1.00	0.00	C
ATOM	5623	CE	LYS	591	15.895	100.367	48.456	1.00	0.00	C
ATOM	5624	NZ	LYS	591	17.195	99.966	47.871	1.00	0.00	N
ATOM	5625	HZ1	LYS	591	17.068	99.733	46.886	1.00	0.00	H
ATOM	5626	HZ2	LYS	591	17.635	99.208	48.393	1.00	0.00	H
ATOM	5627	HZ3	LYS	591	17.915	100.675	48.009	1.00	0.00	H
ATOM	5628	C	LYS	591	16.953	97.519	52.925	1.00	0.00	C
ATOM	5629	O	LYS	591	16.174	96.592	52.706	1.00	0.00	O
ATOM	5630	N	LEU	592	18.274	97.368	52.838	1.00	0.00	N
ATOM	5631	HN	LEU	592	18.892	98.143	53.076	1.00	0.00	H
ATOM	5632	CA	LEU	592	18.823	96.125	52.413	1.00	0.00	C
ATOM	5633	CB	LEU	592	20.353	96.148	52.318	1.00	0.00	C
ATOM	5634	CG	LEU	592	20.911	96.879	51.085	1.00	0.00	C
ATOM	5635	CD1	LEU	592	20.400	98.320	50.956	1.00	0.00	C
ATOM	5636	CD2	LEU	592	22.440	96.825	51.107	1.00	0.00	C
ATOM	5637	C	LEU	592	18.465	95.075	53.399	1.00	0.00	C
ATOM	5638	O	LEU	592	18.254	93.918	53.029	1.00	0.00	O
ATOM	5639	N	VAL	593	18.382	95.472	54.681	1.00	0.00	N
ATOM	5640	HN	VAL	593	18.492	96.460	54.908	1.00	0.00	H
ATOM	5641	CA	VAL	593	18.142	94.531	55.731	1.00	0.00	C
ATOM	5642	CB	VAL	593	17.950	95.168	57.080	1.00	0.00	C
ATOM	5643	CG1	VAL	593	17.399	94.103	58.042	1.00	0.00	C
ATOM	5644	CG2	VAL	593	19.298	95.741	57.552	1.00	0.00	C
ATOM	5645	C	VAL	593	16.888	93.787	55.379	1.00	0.00	C
ATOM	5646	O	VAL	593	16.859	92.557	55.357	1.00	0.00	O
ATOM	5647	N	THR	594	15.836	94.532	55.011	1.00	0.00	N
ATOM	5648	HN	THR	594	15.945	95.543	54.926	1.00	0.00	H
ATOM	5649	CA	THR	594	14.560	93.938	54.734	1.00	0.00	C
ATOM	5650	CB	THR	594	13.479	94.966	54.563	1.00	0.00	C
ATOM	5651	OG1	THR	594	13.761	95.792	53.442	1.00	0.00	O
ATOM	5652	HG1	THR	594	13.077	96.442	53.334	1.00	0.00	H
ATOM	5653	CG2	THR	594	13.404	95.820	55.843	1.00	0.00	C
ATOM	5654	C	THR	594	14.590	93.117	53.470	1.00	0.00	C
ATOM	5655	O	THR	594	14.052	92.013	53.398	1.00	0.00	O
ATOM	5656	N	MET	595	15.288	93.637	52.453	1.00	0.00	N
ATOM	5657	HN	MET	595	15.837	94.469	52.670	1.00	0.00	H
ATOM	5658	CA	MET	595	15.363	93.172	51.092	1.00	0.00	C
ATOM	5659	CB	MET	595	16.102	94.171	50.177	1.00	0.00	C
ATOM	5660	CG	MET	595	15.830	93.962	48.686	1.00	0.00	C
ATOM	5661	SD	MET	595	14.271	94.686	48.087	1.00	0.00	S
ATOM	5662	CE	MET	595	13.157	93.866	49.266	1.00	0.00	C
ATOM	5663	C	MET	595	16.116	91.865	50.978	1.00	0.00	C
ATOM	5664	O	MET	595	16.198	91.280	49.899	1.00	0.00	O
ATOM	5665	N	GLN	596	16.658	91.364	52.097	1.00	0.00	N
ATOM	5666	HN	GLN	596	16.218	91.651	52.971	1.00	0.00	H
ATOM	5667	CA	GLN	596	17.782	90.472	52.224	1.00	0.00	C
ATOM	5668	CB	GLN	596	18.006	90.004	53.665	1.00	0.00	C
ATOM	5669	CG	GLN	596	19.275	89.161	53.775	1.00	0.00	C
ATOM	5670	CD	GLN	596	19.626	89.071	55.247	1.00	0.00	C
ATOM	5671	OE1	GLN	596	19.366	90.002	56.005	1.00	0.00	O
ATOM	5672	NE2	GLN	596	20.232	87.934	55.674	1.00	0.00	N
ATOM	5673	1HE2	GLN	596	20.468	87.873	56.664	1.00	0.00	H
ATOM	5674	2HE2	GLN	596	20.448	87.161	55.045	1.00	0.00	H
ATOM	5675	C	GLN	596	18.081	89.243	51.365	1.00	0.00	C
ATOM	5676	O	GLN	596	19.246	89.110	51.002	1.00	0.00	O
ATOM	5677	N	THR	597	17.200	88.306	50.970	1.00	0.00	N
ATOM	5678	HN	THR	597	16.190	88.439	51.023	1.00	0.00	H
ATOM	5679	CA	THR	597	17.834	87.039	50.441	1.00	0.00	C
ATOM	5680	CB	THR	597	17.444	85.873	51.289	1.00	0.00	C
ATOM	5681	OG1	THR	597	16.036	85.699	51.232	1.00	0.00	O
ATOM	5682	HG1	THR	597	15.770	85.529	50.336	1.00	0.00	H
ATOM	5683	CG2	THR	597	17.875	86.148	52.741	1.00	0.00	C
ATOM	5684	C	THR	597	17.632	86.525	48.863	1.00	0.00	C
ATOM	5685	O	THR	597	17.251	87.540	48.266	1.00	0.00	O
ATOM	5686	N	LEU	598	17.967	85.137	48.221	1.00	0.00	N
ATOM	5687	CA	LEU	598	17.773	84.262	46.829	1.00	0.00	C
ATOM	5688	CB	LEU	598	17.818	85.213	45.608	1.00	0.00	C
ATOM	5689	CG	LEU	598	17.831	84.530	44.218	1.00	0.00	C
ATOM	5690	CD1	LEU	598	16.590	83.659	43.975	1.00	0.00	C
ATOM	5691	CD2	LEU	598	18.075	85.558	43.102	1.00	0.00	C
ATOM	5692	C	LEU	598	18.521	82.820	46.218	1.00	0.00	C
ATOM	5693	O	LEU	598	19.576	82.940	45.592	1.00	0.00	O
ATOM	5694	N	ASP	599	18.021	81.443	46.160	1.00	0.00	N
ATOM	5695	CA	ASP	599	18.678	80.136	45.543	1.00	0.00	C

ATOM	5696	CB	ASP	599	19.600	79.413	46.545	1.00	0.00	C
ATOM	5697	CG	ASP	599	20.896	80.206	46.671	1.00	0.00	C
ATOM	5698	OD1	ASP	599	21.477	80.559	45.610	1.00	0.00	O
ATOM	5699	OD2	ASP	599	21.321	80.471	47.827	1.00	0.00	O
ATOM	5700	C	ASP	599	17.768	78.971	44.869	1.00	0.00	C
ATOM	5701	O	ASP	599	16.555	79.029	45.018	1.00	0.00	O
ATOM	5702	N	GLU	600	18.295	77.848	44.142	1.00	0.00	N
ATOM	5703	HN	GLU	600	19.306	77.715	44.166	1.00	0.00	H
ATOM	5704	CA	GLU	600	17.479	76.831	43.334	1.00	0.00	C
ATOM	5705	CB	GLU	600	17.042	77.466	42.006	1.00	0.00	C
ATOM	5706	CG	GLU	600	18.185	78.246	41.351	1.00	0.00	C
ATOM	5707	CD	GLU	600	18.171	79.640	41.960	1.00	0.00	C
ATOM	5708	OE1	GLU	600	17.182	80.360	41.667	1.00	0.00	O
ATOM	5709	OE2	GLU	600	19.112	80.007	42.714	1.00	0.00	O
ATOM	5710	C	GLU	600	17.987	75.390	42.975	1.00	0.00	C
ATOM	5711	O	GLU	600	18.792	74.788	43.675	1.00	0.00	O
ATOM	5712	N	SER	601	17.383	74.753	41.895	1.00	0.00	N
ATOM	5713	HN	SER	601	16.632	75.297	41.471	1.00	0.00	H
ATOM	5714	CA	SER	601	17.611	73.437	41.232	1.00	0.00	C
ATOM	5715	CB	SER	601	19.081	72.962	41.215	1.00	0.00	C
ATOM	5716	OG	SER	601	19.525	72.610	42.517	1.00	0.00	O
ATOM	5717	HG	SER	601	20.429	72.318	42.507	1.00	0.00	H
ATOM	5718	C	SER	601	16.760	72.380	41.879	1.00	0.00	C
ATOM	5719	O	SER	601	16.434	72.487	43.060	1.00	0.00	O
ATOM	5720	N	ILE	602	16.348	71.328	41.120	1.00	0.00	N
ATOM	5721	HN	ILE	602	16.620	71.238	40.141	1.00	0.00	H
ATOM	5722	CA	ILE	602	15.508	70.345	41.765	1.00	0.00	C
ATOM	5723	CB	ILE	602	14.050	70.651	41.595	1.00	0.00	C
ATOM	5724	CG1	ILE	602	13.212	69.780	42.537	1.00	0.00	C
ATOM	5725	CG2	ILE	602	13.696	70.465	40.112	1.00	0.00	C
ATOM	5726	CD1	ILE	602	13.514	70.002	44.018	1.00	0.00	C
ATOM	5727	C	ILE	602	15.738	68.911	41.338	1.00	0.00	C
ATOM	5728	O	ILE	602	15.782	68.565	40.155	1.00	0.00	O
ATOM	5729	N	PRO	603	15.887	68.073	42.345	1.00	0.00	N
ATOM	5730	CA	PRO	603	16.038	66.643	42.158	1.00	0.00	C
ATOM	5731	CD	PRO	603	16.594	68.529	43.533	1.00	0.00	C
ATOM	5732	CB	PRO	603	16.607	66.104	43.467	1.00	0.00	C
ATOM	5733	CG	PRO	603	17.359	67.306	44.062	1.00	0.00	C
ATOM	5734	C	PRO	603	14.821	65.873	41.702	1.00	0.00	C
ATOM	5735	O	PRO	603	15.010	64.840	41.063	1.00	0.00	O
ATOM	5736	N	PRO	604	13.609	66.272	41.980	1.00	0.00	N
ATOM	5737	CA	PRO	604	12.511	65.449	41.531	1.00	0.00	C
ATOM	5738	CD	PRO	604	13.313	66.857	43.278	1.00	0.00	C
ATOM	5739	CB	PRO	604	11.277	65.973	42.258	1.00	0.00	C
ATOM	5740	CG	PRO	604	11.857	66.463	43.598	1.00	0.00	C
ATOM	5741	C	PRO	604	12.411	65.369	40.046	1.00	0.00	C
ATOM	5742	O	PRO	604	12.687	66.354	39.365	1.00	0.00	O
ATOM	5743	N	VAL	605	11.986	64.200	39.532	1.00	0.00	N
ATOM	5744	HN	VAL	605	11.680	63.466	40.171	1.00	0.00	H
ATOM	5745	CA	VAL	605	11.947	63.945	38.120	1.00	0.00	C
ATOM	5746	CB	VAL	605	12.758	62.720	37.783	1.00	0.00	C
ATOM	5747	CG1	VAL	605	12.883	62.540	36.259	1.00	0.00	C
ATOM	5748	CG2	VAL	605	14.108	62.843	38.509	1.00	0.00	C
ATOM	5749	C	VAL	605	10.489	63.725	37.799	1.00	0.00	C
ATOM	5750	O	VAL	605	9.630	64.357	38.411	1.00	0.00	O
ATOM	5751	N	SER	606	10.151	62.933	36.758	1.00	0.00	N
ATOM	5752	HN	SER	606	10.869	62.557	36.139	1.00	0.00	H
ATOM	5753	CA	SER	606	8.763	62.628	36.536	1.00	0.00	C
ATOM	5754	CB	SER	606	7.933	63.817	36.010	1.00	0.00	C
ATOM	5755	OG	SER	606	8.369	64.218	34.722	1.00	0.00	O
ATOM	5756	HG	SER	606	7.858	64.950	34.398	1.00	0.00	H
ATOM	5757	C	SER	606	8.663	61.481	35.566	1.00	0.00	C
ATOM	5758	O	SER	606	8.399	61.662	34.376	1.00	0.00	O
ATOM	5759	N	PHE	607	8.794	60.236	36.065	1.00	0.00	N
ATOM	5760	HN	PHE	607	8.899	60.077	37.067	1.00	0.00	H
ATOM	5761	CA	PHE	607	8.780	59.140	35.133	1.00	0.00	C
ATOM	5762	CB	PHE	607	9.238	57.790	35.733	1.00	0.00	C
ATOM	5763	CG	PHE	607	8.317	57.390	36.837	1.00	0.00	C
ATOM	5764	CD1	PHE	607	8.534	57.850	38.113	1.00	0.00	C
ATOM	5765	CD2	PHE	607	7.241	56.562	36.608	1.00	0.00	C
ATOM	5766	CE1	PHE	607	7.699	57.492	39.145	1.00	0.00	C
ATOM	5767	CE2	PHE	607	6.401	56.200	37.637	1.00	0.00	C
ATOM	5768	CZ	PHE	607	6.625	56.668	38.908	1.00	0.00	C
ATOM	5769	C	PHE	607	7.412	58.980	34.555	1.00	0.00	C

ATOM	5770	O	PHE	607	6.427	58.806	35.271	1.00	0.00	O
ATOM	5771	N	TRP	608	7.317	59.134	33.218	1.00	0.00	N
ATOM	5772	HN	TRP	608	8.150	59.448	32.720	1.00	0.00	H
ATOM	5773	CA	TRP	608	6.128	58.888	32.440	1.00	0.00	C
ATOM	5774	CB	TRP	608	5.504	57.509	32.723	1.00	0.00	C
ATOM	5775	CG	TRP	608	6.375	56.307	32.445	1.00	0.00	C
ATOM	5776	CD2	TRP	608	6.901	55.965	31.156	1.00	0.00	C
ATOM	5777	CD1	TRP	608	6.829	55.354	33.311	1.00	0.00	C
ATOM	5778	NE1	TRP	608	7.587	54.426	32.638	1.00	0.00	N
ATOM	5779	HE1	TRP	608	8.031	53.605	33.050	1.00	0.00	H
ATOM	5780	CE2	TRP	608	7.644	54.794	31.311	1.00	0.00	C
ATOM	5781	CE3	TRP	608	6.776	56.577	29.947	1.00	0.00	C
ATOM	5782	CZ2	TRP	608	8.273	54.212	30.247	1.00	0.00	C
ATOM	5783	CZ3	TRP	608	7.412	55.987	28.878	1.00	0.00	C
ATOM	5784	CH2	TRP	608	8.145	54.828	29.023	1.00	0.00	C
ATOM	5785	C	TRP	608	5.070	59.885	32.818	1.00	0.00	C
ATOM	5786	O	TRP	608	4.024	59.948	32.175	1.00	0.00	O
ATOM	5787	N	ARG	609	5.321	60.711	33.849	1.00	0.00	N
ATOM	5788	HN	ARG	609	6.240	60.686	34.291	1.00	0.00	H
ATOM	5789	CA	ARG	609	4.332	61.627	34.345	1.00	0.00	C
ATOM	5790	CB	ARG	609	4.851	62.420	35.557	1.00	0.00	C
ATOM	5791	CG	ARG	609	3.853	63.422	36.140	1.00	0.00	C
ATOM	5792	CD	ARG	609	4.545	64.551	36.907	1.00	0.00	C
ATOM	5793	NE	ARG	609	3.498	65.406	37.534	1.00	0.00	N
ATOM	5794	HE	ARG	609	3.036	66.135	36.990	1.00	0.00	H
ATOM	5795	CZ	ARG	609	3.163	65.206	38.841	1.00	0.00	C
ATOM	5796	NH1	ARG	609	3.807	64.245	39.567	1.00	0.00	N
ATOM	5797	1HH1	ARG	609	4.527	63.670	39.130	1.00	0.00	H
ATOM	5798	2HH1	ARG	609	3.556	64.095	40.544	1.00	0.00	H
ATOM	5799	NH2	ARG	609	2.199	65.976	39.426	1.00	0.00	N
ATOM	5800	1HH2	ARG	609	1.718	66.694	38.884	1.00	0.00	H
ATOM	5801	2HH2	ARG	609	1.948	65.826	40.403	1.00	0.00	H
ATOM	5802	C	ARG	609	4.036	62.637	33.298	1.00	0.00	C
ATOM	5803	O	ARG	609	2.883	62.890	32.960	1.00	0.00	O
ATOM	5804	N	ILE	610	5.105	63.212	32.735	1.00	0.00	N
ATOM	5805	HN	ILE	610	6.029	62.902	33.037	1.00	0.00	H
ATOM	5806	CA	ILE	610	5.035	64.228	31.742	1.00	0.00	C
ATOM	5807	CB	ILE	610	6.385	64.766	31.363	1.00	0.00	C
ATOM	5808	CG1	ILE	610	7.265	63.668	30.749	1.00	0.00	C
ATOM	5809	CG2	ILE	610	6.986	65.426	32.618	1.00	0.00	C
ATOM	5810	CD1	ILE	610	8.563	64.198	30.142	1.00	0.00	C
ATOM	5811	C	ILE	610	4.387	63.639	30.548	1.00	0.00	C
ATOM	5812	O	ILE	610	3.940	64.383	29.690	1.00	0.00	O
ATOM	5813	N	MET	611	4.488	62.309	30.361	1.00	0.00	N
ATOM	5814	HN	MET	611	5.081	61.755	30.979	1.00	0.00	H
ATOM	5815	CA	MET	611	3.766	61.664	29.297	1.00	0.00	C
ATOM	5816	CB	MET	611	4.102	60.167	29.223	1.00	0.00	C
ATOM	5817	CG	MET	611	3.377	59.407	28.114	1.00	0.00	C
ATOM	5818	SD	MET	611	3.706	57.619	28.118	1.00	0.00	S
ATOM	5819	CE	MET	611	2.988	57.325	26.477	1.00	0.00	C
ATOM	5820	C	MET	611	2.303	61.768	29.611	1.00	0.00	C
ATOM	5821	O	MET	611	1.494	62.151	28.766	1.00	0.00	O
ATOM	5822	N	LYS	612	1.935	61.451	30.869	1.00	0.00	N
ATOM	5823	HN	LYS	612	2.651	61.215	31.556	1.00	0.00	H
ATOM	5824	CA	LYS	612	0.552	61.440	31.260	1.00	0.00	C
ATOM	5825	CB	LYS	612	0.362	61.052	32.735	1.00	0.00	C
ATOM	5826	CG	LYS	612	0.867	59.655	33.099	1.00	0.00	C
ATOM	5827	CD	LYS	612	0.983	59.437	34.609	1.00	0.00	C
ATOM	5828	CE	LYS	612	1.480	58.043	34.998	1.00	0.00	C
ATOM	5829	NZ	LYS	612	1.686	57.962	36.461	1.00	0.00	N
ATOM	5830	HZ1	LYS	612	2.017	57.033	36.720	1.00	0.00	H
ATOM	5831	HZ2	LYS	612	0.847	58.225	36.979	1.00	0.00	H
ATOM	5832	HZ3	LYS	612	2.308	58.696	36.799	1.00	0.00	H
ATOM	5833	C	LYS	612	0.033	62.828	31.133	1.00	0.00	C
ATOM	5834	O	LYS	612	-0.961	63.087	30.456	1.00	0.00	O
ATOM	5835	N	LEU	613	0.742	63.774	31.765	1.00	0.00	N
ATOM	5836	HN	LEU	613	1.566	63.506	32.303	1.00	0.00	H
ATOM	5837	CA	LEU	613	0.366	65.149	31.700	1.00	0.00	C
ATOM	5838	CB	LEU	613	1.151	66.130	32.591	1.00	0.00	C
ATOM	5839	CG	LEU	613	0.727	66.137	34.072	1.00	0.00	C
ATOM	5840	CD1	LEU	613	1.197	64.882	34.822	1.00	0.00	C
ATOM	5841	CD2	LEU	613	1.132	67.451	34.754	1.00	0.00	C
ATOM	5842	C	LEU	613	0.542	65.588	30.295	1.00	0.00	C
ATOM	5843	O	LEU	613	-0.083	66.567	29.890	1.00	0.00	O

ATOM	5844	N	ASN	614	1.420	64.897	29.533	1.00	0.00	N
ATOM	5845	HN	ASN	614	1.900	64.088	29.927	1.00	0.00	H
ATOM	5846	CA	ASN	614	1.687	65.288	28.173	1.00	0.00	C
ATOM	5847	CB	ASN	614	2.479	64.266	27.315	1.00	0.00	C
ATOM	5848	CG	ASN	614	3.903	64.726	26.997	1.00	0.00	C
ATOM	5849	OD1	ASN	614	4.252	65.892	27.172	1.00	0.00	O
ATOM	5850	ND2	ASN	614	4.742	63.778	26.498	1.00	0.00	N
ATOM	5851	1HD2	ASN	614	5.691	64.085	26.286	1.00	0.00	H
ATOM	5852	2HD2	ASN	614	4.452	62.811	26.353	1.00	0.00	H
ATOM	5853	C	ASN	614	0.373	65.378	27.494	1.00	0.00	C
ATOM	5854	O	ASN	614	-0.038	66.450	27.062	1.00	0.00	O
ATOM	5855	N	LEU	615	-0.377	64.275	27.528	1.00	0.00	N
ATOM	5856	HN	LEU	615	-0.023	63.462	28.032	1.00	0.00	H
ATOM	5857	CA	LEU	615	-1.653	64.179	26.892	1.00	0.00	C
ATOM	5858	CB	LEU	615	-2.270	62.779	27.151	1.00	0.00	C
ATOM	5859	CG	LEU	615	-3.644	62.437	26.523	1.00	0.00	C
ATOM	5860	CD1	LEU	615	-4.043	60.998	26.899	1.00	0.00	C
ATOM	5861	CD2	LEU	615	-4.754	63.431	26.897	1.00	0.00	C
ATOM	5862	C	LEU	615	-2.520	65.239	27.505	1.00	0.00	C
ATOM	5863	O	LEU	615	-3.382	65.802	26.834	1.00	0.00	O
ATOM	5864	N	THR	616	-2.333	65.547	28.802	1.00	0.00	N
ATOM	5865	HN	THR	616	-1.616	65.071	29.349	1.00	0.00	H
ATOM	5866	CA	THR	616	-3.160	66.558	29.406	1.00	0.00	C
ATOM	5867	CB	THR	616	-2.780	66.832	30.833	1.00	0.00	C
ATOM	5868	OG1	THR	616	-2.870	65.643	31.602	1.00	0.00	O
ATOM	5869	HG1	THR	616	-2.630	65.816	32.505	1.00	0.00	H
ATOM	5870	CG2	THR	616	-3.726	67.903	31.402	1.00	0.00	C
ATOM	5871	C	THR	616	-2.930	67.824	28.646	1.00	0.00	C
ATOM	5872	O	THR	616	-3.848	68.554	28.280	1.00	0.00	O
ATOM	5873	N	GLU	617	-1.652	68.074	28.369	1.00	0.00	N
ATOM	5874	HN	GLU	617	-0.979	67.393	28.720	1.00	0.00	H
ATOM	5875	CA	GLU	617	-1.105	69.174	27.643	1.00	0.00	C
ATOM	5876	CB	GLU	617	0.409	69.222	27.818	1.00	0.00	C
ATOM	5877	CG	GLU	617	0.800	69.644	29.234	1.00	0.00	C
ATOM	5878	CD	GLU	617	2.123	68.977	29.544	1.00	0.00	C
ATOM	5879	OE1	GLU	617	2.268	67.786	29.157	1.00	0.00	O
ATOM	5880	OE2	GLU	617	2.996	69.630	30.172	1.00	0.00	O
ATOM	5881	C	GLU	617	-1.450	68.982	26.204	1.00	0.00	C
ATOM	5882	O	GLU	617	-0.830	69.592	25.341	1.00	0.00	O
ATOM	5883	N	TRP	618	-2.314	67.995	25.898	1.00	0.00	N
ATOM	5884	HN	TRP	618	-2.781	67.484	26.647	1.00	0.00	H
ATOM	5885	CA	TRP	618	-2.585	67.654	24.533	1.00	0.00	C
ATOM	5886	CB	TRP	618	-1.888	66.301	24.293	1.00	0.00	C
ATOM	5887	CG	TRP	618	-1.941	65.618	22.956	1.00	0.00	C
ATOM	5888	CD2	TRP	618	-2.705	64.426	22.709	1.00	0.00	C
ATOM	5889	CD1	TRP	618	-1.241	65.874	21.818	1.00	0.00	C
ATOM	5890	NE1	TRP	618	-1.507	64.904	20.881	1.00	0.00	N
ATOM	5891	HE1	TRP	618	-1.103	64.855	19.946	1.00	0.00	H
ATOM	5892	CE2	TRP	618	-2.408	64.010	21.412	1.00	0.00	C
ATOM	5893	CE3	TRP	618	-3.563	63.725	23.502	1.00	0.00	C
ATOM	5894	CZ2	TRP	618	-2.971	62.883	20.886	1.00	0.00	C
ATOM	5895	CZ3	TRP	618	-4.143	62.598	22.964	1.00	0.00	C
ATOM	5896	CH2	TRP	618	-3.852	62.186	21.680	1.00	0.00	C
ATOM	5897	C	TRP	618	-4.069	67.516	24.253	1.00	0.00	C
ATOM	5898	O	TRP	618	-4.788	66.858	25.004	1.00	0.00	O
ATOM	5899	N	PRO	619	-4.584	68.214	23.252	1.00	0.00	N
ATOM	5900	CA	PRO	619	-5.929	68.020	22.753	1.00	0.00	C
ATOM	5901	CD	PRO	619	-3.994	69.449	22.773	1.00	0.00	C
ATOM	5902	CB	PRO	619	-6.241	69.237	21.885	1.00	0.00	C
ATOM	5903	CG	PRO	619	-4.859	69.831	21.558	1.00	0.00	C
ATOM	5904	C	PRO	619	-6.119	66.711	22.030	1.00	0.00	C
ATOM	5905	O	PRO	619	-6.844	65.850	22.528	1.00	0.00	O
ATOM	5906	N	TYR	620	-5.512	66.569	20.821	1.00	0.00	N
ATOM	5907	HN	TYR	620	-5.066	67.384	20.400	1.00	0.00	H
ATOM	5908	CA	TYR	620	-5.472	65.315	20.108	1.00	0.00	C
ATOM	5909	CB	TYR	620	-6.846	64.676	19.823	1.00	0.00	C
ATOM	5910	CG	TYR	620	-7.517	65.392	18.710	1.00	0.00	C
ATOM	5911	CD1	TYR	620	-7.282	65.003	17.411	1.00	0.00	C
ATOM	5912	CD2	TYR	620	-8.380	66.433	18.955	1.00	0.00	C
ATOM	5913	CE1	TYR	620	-7.892	65.646	16.364	1.00	0.00	C
ATOM	5914	CE2	TYR	620	-8.994	67.081	17.909	1.00	0.00	C
ATOM	5915	CZ	TYR	620	-8.750	66.688	16.615	1.00	0.00	C
ATOM	5916	OH	TYR	620	-9.381	67.354	15.545	1.00	0.00	O
ATOM	5917	HH	TYR	620	-9.212	67.082	14.650	1.00	0.00	H



ATOM	5918	C	TYR	620	-4.740	65.526	18.804	1.00	0.00	C
ATOM	5919	O	TYR	620	-4.971	66.509	18.099	1.00	0.00	O
ATOM	5920	N	PHE	621	-3.717	64.686	18.563	1.00	0.00	N
ATOM	5921	HN	PHE	621	-3.526	64.015	19.307	1.00	0.00	H
ATOM	5922	CA	PHE	621	-2.852	64.588	17.421	1.00	0.00	C
ATOM	5923	CB	PHE	621	-1.383	64.907	17.729	1.00	0.00	C
ATOM	5924	CG	PHE	621	-1.396	66.391	17.859	1.00	0.00	C
ATOM	5925	CD1	PHE	621	-1.419	67.174	16.733	1.00	0.00	C
ATOM	5926	CD2	PHE	621	-1.434	67.015	19.083	1.00	0.00	C
ATOM	5927	CE1	PHE	621	-1.447	68.544	16.832	1.00	0.00	C
ATOM	5928	CE2	PHE	621	-1.461	68.386	19.192	1.00	0.00	C
ATOM	5929	CZ	PHE	621	-1.465	69.158	18.059	1.00	0.00	C
ATOM	5930	C	PHE	621	-2.928	63.415	16.509	1.00	0.00	C
ATOM	5931	O	PHE	621	-2.009	63.314	15.702	1.00	0.00	O
ATOM	5932	N	VAL	622	-3.864	62.456	16.663	1.00	0.00	N
ATOM	5933	HN	VAL	622	-4.648	62.639	17.289	1.00	0.00	H
ATOM	5934	CA	VAL	622	-3.809	61.180	15.983	1.00	0.00	C
ATOM	5935	CB	VAL	622	-5.108	60.425	16.046	1.00	0.00	C
ATOM	5936	CG1	VAL	622	-6.195	61.261	15.353	1.00	0.00	C
ATOM	5937	CG2	VAL	622	-4.902	59.042	15.400	1.00	0.00	C
ATOM	5938	C	VAL	622	-3.482	61.358	14.535	1.00	0.00	C
ATOM	5939	O	VAL	622	-2.779	60.538	13.946	1.00	0.00	O
ATOM	5940	N	VAL	623	-3.960	62.454	13.931	1.00	0.00	N
ATOM	5941	HN	VAL	623	-4.535	63.110	14.459	1.00	0.00	H
ATOM	5942	CA	VAL	623	-3.673	62.715	12.555	1.00	0.00	C
ATOM	5943	CB	VAL	623	-4.189	64.060	12.153	1.00	0.00	C
ATOM	5944	CG1	VAL	623	-3.723	65.089	13.201	1.00	0.00	C
ATOM	5945	CG2	VAL	623	-3.674	64.368	10.738	1.00	0.00	C
ATOM	5946	C	VAL	623	-2.186	62.710	12.339	1.00	0.00	C
ATOM	5947	O	VAL	623	-1.693	62.022	11.447	1.00	0.00	O
ATOM	5948	N	GLY	624	-1.415	63.442	13.165	1.00	0.00	N
ATOM	5949	HN	GLY	624	-1.836	63.947	13.945	1.00	0.00	H
ATOM	5950	CA	GLY	624	0.000	63.509	12.945	1.00	0.00	C
ATOM	5951	C	GLY	624	0.575	62.132	13.024	1.00	0.00	C
ATOM	5952	O	GLY	624	1.255	61.692	12.100	1.00	0.00	O
ATOM	5953	N	VAL	625	0.253	61.380	14.093	1.00	0.00	N
ATOM	5954	HN	VAL	625	-0.389	61.741	14.799	1.00	0.00	H
ATOM	5955	CA	VAL	625	0.816	60.068	14.236	1.00	0.00	C
ATOM	5956	CB	VAL	625	0.309	59.328	15.441	1.00	0.00	C
ATOM	5957	CG1	VAL	625	0.879	57.899	15.405	1.00	0.00	C
ATOM	5958	CG2	VAL	625	0.684	60.119	16.706	1.00	0.00	C
ATOM	5959	C	VAL	625	0.396	59.277	13.039	1.00	0.00	C
ATOM	5960	O	VAL	625	1.116	58.389	12.588	1.00	0.00	O
ATOM	5961	N	PHE	626	-0.795	59.586	12.497	1.00	0.00	N
ATOM	5962	HN	PHE	626	-1.337	60.361	12.879	1.00	0.00	H
ATOM	5963	CA	PHE	626	-1.311	58.839	11.388	1.00	0.00	C
ATOM	5964	CB	PHE	626	-2.694	59.338	10.940	1.00	0.00	C
ATOM	5965	CG	PHE	626	-3.228	58.340	9.971	1.00	0.00	C
ATOM	5966	CD1	PHE	626	-2.908	58.410	8.634	1.00	0.00	C
ATOM	5967	CD2	PHE	626	-4.047	57.324	10.407	1.00	0.00	C
ATOM	5968	CE1	PHE	626	-3.402	57.485	7.747	1.00	0.00	C
ATOM	5969	CE2	PHE	626	-4.544	56.396	9.524	1.00	0.00	C
ATOM	5970	CZ	PHE	626	-4.220	56.473	8.190	1.00	0.00	C
ATOM	5971	C	PHE	626	-0.377	58.945	10.215	1.00	0.00	C
ATOM	5972	O	PHE	626	0.073	57.938	9.673	1.00	0.00	O
ATOM	5973	N	CYS	627	-0.008	60.171	9.806	1.00	0.00	N
ATOM	5974	HN	CYS	627	-0.338	61.001	10.298	1.00	0.00	H
ATOM	5975	CA	CYS	627	0.856	60.297	8.668	1.00	0.00	C
ATOM	5976	CB	CYS	627	1.068	61.755	8.214	1.00	0.00	C
ATOM	5977	SG	CYS	627	1.820	62.810	9.486	1.00	0.00	S
ATOM	5978	C	CYS	627	2.174	59.700	9.034	1.00	0.00	C
ATOM	5979	O	CYS	627	2.909	59.236	8.163	1.00	0.00	O
ATOM	5980	N	ALA	628	2.500	59.689	10.345	1.00	0.00	N
ATOM	5981	HN	ALA	628	1.838	60.045	11.034	1.00	0.00	H
ATOM	5982	CA	ALA	628	3.771	59.180	10.775	1.00	0.00	C
ATOM	5983	CB	ALA	628	3.896	59.122	12.306	1.00	0.00	C
ATOM	5984	C	ALA	628	3.870	57.788	10.269	1.00	0.00	C
ATOM	5985	O	ALA	628	4.851	57.424	9.623	1.00	0.00	O
ATOM	5986	N	ILE	629	2.813	56.989	10.477	1.00	0.00	N
ATOM	5987	HN	ILE	629	1.981	57.307	10.973	1.00	0.00	H
ATOM	5988	CA	ILE	629	2.930	55.668	9.959	1.00	0.00	C
ATOM	5989	CB	ILE	629	1.947	54.656	10.489	1.00	0.00	C
ATOM	5990	CG1	ILE	629	0.486	55.108	10.435	1.00	0.00	C
ATOM	5991	CG2	ILE	629	2.407	54.327	11.917	1.00	0.00	C

ATOM	5992	CD1	ILE	629	0.136	56.018	11.617	1.00	0.00	C
ATOM	5993	C	ILE	629	3.032	55.671	8.459	1.00	0.00	C
ATOM	5994	O	ILE	629	3.818	54.903	7.907	1.00	0.00	O
ATOM	5995	N	ILE	630	2.287	56.539	7.740	1.00	0.00	N
ATOM	5996	HN	ILE	630	1.687	57.221	8.204	1.00	0.00	H
ATOM	5997	CA	ILE	630	2.361	56.478	6.300	1.00	0.00	C
ATOM	5998	CB	ILE	630	1.376	57.374	5.588	1.00	0.00	C
ATOM	5999	CG1	ILE	630	1.693	58.873	5.734	1.00	0.00	C
ATOM	6000	CG2	ILE	630	-0.011	56.999	6.126	1.00	0.00	C
ATOM	6001	CD1	ILE	630	2.774	59.366	4.772	1.00	0.00	C
ATOM	6002	C	ILE	630	3.753	56.800	5.848	1.00	0.00	C
ATOM	6003	O	ILE	630	4.291	56.128	4.967	1.00	0.00	O
ATOM	6004	N	ASN	631	4.391	57.808	6.472	1.00	0.00	N
ATOM	6005	HN	ASN	631	3.926	58.284	7.245	1.00	0.00	H
ATOM	6006	CA	ASN	631	5.704	58.233	6.083	1.00	0.00	C
ATOM	6007	CB	ASN	631	6.270	59.286	7.049	1.00	0.00	C
ATOM	6008	CG	ASN	631	7.532	59.883	6.450	1.00	0.00	C
ATOM	6009	OD1	ASN	631	8.333	59.189	5.828	1.00	0.00	O
ATOM	6010	ND2	ASN	631	7.712	61.217	6.646	1.00	0.00	N
ATOM	6011	1HD2	ASN	631	7.047	61.793	7.162	1.00	0.00	H
ATOM	6012	2HD2	ASN	631	8.559	61.618	6.244	1.00	0.00	H
ATOM	6013	C	ASN	631	6.579	57.035	6.164	1.00	0.00	C
ATOM	6014	O	ASN	631	7.405	56.780	5.284	1.00	0.00	O
ATOM	6015	N	GLY	632	6.377	56.236	7.222	1.00	0.00	N
ATOM	6016	HN	GLY	632	5.645	56.443	7.902	1.00	0.00	H
ATOM	6017	CA	GLY	632	7.206	55.098	7.371	1.00	0.00	C
ATOM	6018	C	GLY	632	7.041	54.216	6.181	1.00	0.00	C
ATOM	6019	O	GLY	632	8.024	53.822	5.564	1.00	0.00	O
ATOM	6020	N	GLY	633	5.793	53.938	5.774	1.00	0.00	N
ATOM	6021	HN	GLY	633	5.000	54.361	6.257	1.00	0.00	H
ATOM	6022	CA	GLY	633	5.558	53.052	4.667	1.00	0.00	C
ATOM	6023	C	GLY	633	6.213	53.621	3.449	1.00	0.00	C
ATOM	6024	O	GLY	633	6.724	52.884	2.605	1.00	0.00	O
ATOM	6025	N	LEU	634	6.233	54.964	3.341	1.00	0.00	N
ATOM	6026	HN	LEU	634	5.855	55.535	4.097	1.00	0.00	H
ATOM	6027	CA	LEU	634	6.779	55.603	2.176	1.00	0.00	C
ATOM	6028	CB	LEU	634	6.936	57.129	2.322	1.00	0.00	C
ATOM	6029	CG	LEU	634	5.729	58.006	1.946	1.00	0.00	C
ATOM	6030	CD1	LEU	634	4.443	57.609	2.673	1.00	0.00	C
ATOM	6031	CD2	LEU	634	6.082	59.486	2.166	1.00	0.00	C
ATOM	6032	C	LEU	634	8.173	55.109	1.958	1.00	0.00	C
ATOM	6033	O	LEU	634	8.564	54.845	0.819	1.00	0.00	O
ATOM	6034	N	GLN	635	8.956	54.980	3.045	1.00	0.00	N
ATOM	6035	HN	GLN	635	8.573	55.166	3.972	1.00	0.00	H
ATOM	6036	CA	GLN	635	10.329	54.582	2.906	1.00	0.00	C
ATOM	6037	CB	GLN	635	11.105	54.684	4.233	1.00	0.00	C
ATOM	6038	CG	GLN	635	12.599	54.381	4.107	1.00	0.00	C
ATOM	6039	CD	GLN	635	13.277	55.613	3.524	1.00	0.00	C
ATOM	6040	OE1	GLN	635	13.475	56.613	4.212	1.00	0.00	O
ATOM	6041	NE2	GLN	635	13.644	55.540	2.217	1.00	0.00	N
ATOM	6042	1HE2	GLN	635	13.480	54.711	1.646	1.00	0.00	H
ATOM	6043	2HE2	GLN	635	14.098	56.365	1.826	1.00	0.00	H
ATOM	6044	C	GLN	635	10.449	53.186	2.351	1.00	0.00	C
ATOM	6045	O	GLN	635	11.096	53.026	1.316	1.00	0.00	O
ATOM	6046	N	PRO	636	9.831	52.164	2.902	1.00	0.00	N
ATOM	6047	CA	PRO	636	10.016	50.890	2.273	1.00	0.00	C
ATOM	6048	CD	PRO	636	9.745	51.996	4.342	1.00	0.00	C
ATOM	6049	CB	PRO	636	9.418	49.867	3.227	1.00	0.00	C
ATOM	6050	CG	PRO	636	9.712	50.482	4.605	1.00	0.00	C
ATOM	6051	C	PRO	636	9.467	50.867	0.883	1.00	0.00	C
ATOM	6052	O	PRO	636	9.951	50.099	0.051	1.00	0.00	O
ATOM	6053	N	ALA	637	8.480	51.727	0.596	1.00	0.00	N
ATOM	6054	HN	ALA	637	8.152	52.377	1.310	1.00	0.00	H
ATOM	6055	CA	ALA	637	7.879	51.741	-0.710	1.00	0.00	C
ATOM	6056	CB	ALA	637	6.785	52.814	-0.845	1.00	0.00	C
ATOM	6057	C	ALA	637	8.947	52.049	-1.710	1.00	0.00	C
ATOM	6058	O	ALA	637	9.015	51.444	-2.778	1.00	0.00	O
ATOM	6059	N	PHE	638	9.843	52.985	-1.362	1.00	0.00	N
ATOM	6060	HN	PHE	638	9.768	53.428	-0.446	1.00	0.00	H
ATOM	6061	CA	PHE	638	10.902	53.379	-2.243	1.00	0.00	C
ATOM	6062	CB	PHE	638	11.805	54.463	-1.633	1.00	0.00	C
ATOM	6063	CG	PHE	638	13.023	54.575	-2.482	1.00	0.00	C
ATOM	6064	CD1	PHE	638	13.040	55.343	-3.624	1.00	0.00	C
ATOM	6065	CD2	PHE	638	14.166	53.898	-2.120	1.00	0.00	C

ATOM	6066	CE1	PHE	638	14.181	55.430	-4.389	1.00	0.00	C
ATOM	6067	CE2	PHE	638	15.307	53.981	-2.882	1.00	0.00	C
ATOM	6068	CZ	PHE	638	15.315	54.749	-4.019	1.00	0.00	C
ATOM	6069	C	PHE	638	11.749	52.199	-2.512	1.00	0.00	C
ATOM	6070	O	PHE	638	12.220	52.000	-3.634	1.00	0.00	O
ATOM	6071	N	ALA	639	11.946	51.375	-1.474	1.00	0.00	N
ATOM	6072	HN	ALA	639	11.486	51.551	-0.581	1.00	0.00	H
ATOM	6073	CA	ALA	639	12.804	50.251	-1.632	1.00	0.00	C
ATOM	6074	CB	ALA	639	12.813	49.392	-0.365	1.00	0.00	C
ATOM	6075	C	ALA	639	12.291	49.414	-2.784	1.00	0.00	C
ATOM	6076	O	ALA	639	13.072	48.986	-3.634	1.00	0.00	O
ATOM	6077	N	ILE	640	10.964	49.174	-2.859	1.00	0.00	N
ATOM	6078	HN	ILE	640	10.346	49.572	-2.152	1.00	0.00	H
ATOM	6079	CA	ILE	640	10.397	48.366	-3.918	1.00	0.00	C
ATOM	6080	CB	ILE	640	9.000	47.876	-3.653	1.00	0.00	C
ATOM	6081	CG1	ILE	640	8.647	46.770	-4.661	1.00	0.00	C
ATOM	6082	CG2	ILE	640	8.029	49.065	-3.708	1.00	0.00	C
ATOM	6083	CD1	ILE	640	7.343	46.040	-4.345	1.00	0.00	C
ATOM	6084	C	ILE	640	10.367	49.023	-5.268	1.00	0.00	C
ATOM	6085	O	ILE	640	10.682	48.387	-6.275	1.00	0.00	O
ATOM	6086	N	ILE	641	9.979	50.311	-5.343	1.00	0.00	N
ATOM	6087	HN	ILE	641	9.813	50.855	-4.496	1.00	0.00	H
ATOM	6088	CA	ILE	641	9.803	50.903	-6.642	1.00	0.00	C
ATOM	6089	CB	ILE	641	9.329	52.326	-6.611	1.00	0.00	C
ATOM	6090	CG1	ILE	641	8.957	52.752	-8.039	1.00	0.00	C
ATOM	6091	CG2	ILE	641	10.400	53.206	-5.941	1.00	0.00	C
ATOM	6092	CD1	ILE	641	8.107	54.011	-8.099	1.00	0.00	C
ATOM	6093	C	ILE	641	11.102	50.856	-7.374	1.00	0.00	C
ATOM	6094	O	ILE	641	11.144	50.578	-8.573	1.00	0.00	O
ATOM	6095	N	PHE	642	12.195	51.143	-6.650	1.00	0.00	N
ATOM	6096	HN	PHE	642	12.073	51.383	-5.666	1.00	0.00	H
ATOM	6097	CA	PHE	642	13.526	51.131	-7.185	1.00	0.00	C
ATOM	6098	CB	PHE	642	14.511	51.582	-6.092	1.00	0.00	C
ATOM	6099	CG	PHE	642	15.908	51.369	-6.544	1.00	0.00	C
ATOM	6100	CD1	PHE	642	16.518	50.149	-6.357	1.00	0.00	C
ATOM	6101	CD2	PHE	642	16.612	52.389	-7.136	1.00	0.00	C
ATOM	6102	CE1	PHE	642	17.810	49.938	-6.769	1.00	0.00	C
ATOM	6103	CE2	PHE	642	17.907	52.184	-7.549	1.00	0.00	C
ATOM	6104	CZ	PHE	642	18.504	50.961	-7.366	1.00	0.00	C
ATOM	6105	C	PHE	642	13.884	49.750	-7.609	1.00	0.00	C
ATOM	6106	O	PHE	642	14.285	49.521	-8.751	1.00	0.00	O
ATOM	6107	N	SER	643	13.688	48.783	-6.697	1.00	0.00	N
ATOM	6108	HN	SER	643	13.253	49.012	-5.803	1.00	0.00	H
ATOM	6109	CA	SER	643	14.083	47.437	-6.968	1.00	0.00	C
ATOM	6110	CB	SER	643	13.699	46.477	-5.828	1.00	0.00	C
ATOM	6111	OG	SER	643	12.288	46.459	-5.662	1.00	0.00	O
ATOM	6112	HG	SER	643	12.051	45.866	-4.958	1.00	0.00	H
ATOM	6113	C	SER	643	13.353	47.011	-8.194	1.00	0.00	C
ATOM	6114	O	SER	643	13.866	46.220	-8.983	1.00	0.00	O
ATOM	6115	N	LYS	644	12.126	47.526	-8.389	1.00	0.00	N
ATOM	6116	HN	LYS	644	11.717	48.182	-7.724	1.00	0.00	H
ATOM	6117	CA	LYS	644	11.416	47.120	-9.562	1.00	0.00	C
ATOM	6118	CB	LYS	644	9.928	47.503	-9.587	1.00	0.00	C
ATOM	6119	CG	LYS	644	9.225	46.936	-10.825	1.00	0.00	C
ATOM	6120	CD	LYS	644	7.713	46.764	-10.666	1.00	0.00	C
ATOM	6121	CE	LYS	644	6.930	48.072	-10.586	1.00	0.00	C
ATOM	6122	NZ	LYS	644	5.500	47.780	-10.337	1.00	0.00	N
ATOM	6123	HZ1	LYS	644	4.977	48.654	-10.284	1.00	0.00	H
ATOM	6124	HZ2	LYS	644	5.364	47.199	-9.510	1.00	0.00	H
ATOM	6125	HZ3	LYS	644	5.111	47.141	-11.030	1.00	0.00	H
ATOM	6126	C	LYS	644	12.061	47.657	-10.799	1.00	0.00	C
ATOM	6127	O	LYS	644	12.239	46.909	-11.756	1.00	0.00	O
ATOM	6128	N	ILE	645	12.478	48.940	-10.813	1.00	0.00	N
ATOM	6129	HN	ILE	645	12.439	49.506	-9.965	1.00	0.00	H
ATOM	6130	CA	ILE	645	12.977	49.498	-12.039	1.00	0.00	C
ATOM	6131	CB	ILE	645	13.380	50.953	-11.912	1.00	0.00	C
ATOM	6132	CG1	ILE	645	14.533	51.181	-10.924	1.00	0.00	C
ATOM	6133	CG2	ILE	645	12.138	51.742	-11.502	1.00	0.00	C
ATOM	6134	CD1	ILE	645	15.105	52.597	-10.984	1.00	0.00	C
ATOM	6135	C	ILE	645	14.163	48.723	-12.494	1.00	0.00	C
ATOM	6136	O	ILE	645	14.188	48.222	-13.617	1.00	0.00	O
ATOM	6137	N	ILE	646	15.135	48.522	-11.594	1.00	0.00	N
ATOM	6138	HN	ILE	646	15.007	48.840	-10.633	1.00	0.00	H
ATOM	6139	CA	ILE	646	16.344	47.869	-11.965	1.00	0.00	C

ATOM	6140	CB	ILE	646	17.258	47.681	-10.789	1.00	0.00	C
ATOM	6141	CG1	ILE	646	17.567	49.031	-10.122	1.00	0.00	C
ATOM	6142	CG2	ILE	646	18.508	46.920	-11.265	1.00	0.00	C
ATOM	6143	CD1	ILE	646	18.266	50.035	-11.037	1.00	0.00	C
ATOM	6144	C	ILE	646	15.946	46.518	-12.427	1.00	0.00	C
ATOM	6145	O	ILE	646	16.317	46.119	-13.524	1.00	0.00	O
ATOM	6146	N	GLY	647	15.089	45.823	-11.661	1.00	0.00	N
ATOM	6147	HN	GLY	647	14.674	46.245	-10.830	1.00	0.00	H
ATOM	6148	CA	GLY	647	14.769	44.477	-12.034	1.00	0.00	C
ATOM	6149	C	GLY	647	14.145	44.449	-13.396	1.00	0.00	C
ATOM	6150	O	GLY	647	14.587	43.736	-14.293	1.00	0.00	O
ATOM	6151	N	VAL	648	13.144	45.306	-13.599	1.00	0.00	N
ATOM	6152	HN	VAL	648	12.924	45.961	-12.849	1.00	0.00	H
ATOM	6153	CA	VAL	648	12.355	45.375	-14.792	1.00	0.00	C
ATOM	6154	CB	VAL	648	11.252	46.393	-14.632	1.00	0.00	C
ATOM	6155	CG1	VAL	648	10.497	46.596	-15.947	1.00	0.00	C
ATOM	6156	CG2	VAL	648	10.335	45.914	-13.497	1.00	0.00	C
ATOM	6157	C	VAL	648	13.235	45.767	-15.946	1.00	0.00	C
ATOM	6158	O	VAL	648	12.810	45.716	-17.097	1.00	0.00	O
ATOM	6159	N	PHE	649	14.383	46.407	-15.672	1.00	0.00	N
ATOM	6160	HN	PHE	649	14.601	46.665	-14.709	1.00	0.00	H
ATOM	6161	CA	PHE	649	15.308	46.732	-16.724	1.00	0.00	C
ATOM	6162	CB	PHE	649	15.999	48.099	-16.538	1.00	0.00	C
ATOM	6163	CG	PHE	649	16.608	48.485	-17.853	1.00	0.00	C
ATOM	6164	CD1	PHE	649	15.845	49.162	-18.777	1.00	0.00	C
ATOM	6165	CD2	PHE	649	17.912	48.183	-18.178	1.00	0.00	C
ATOM	6166	CE1	PHE	649	16.364	49.530	-19.997	1.00	0.00	C
ATOM	6167	CE2	PHE	649	18.439	48.542	-19.398	1.00	0.00	C
ATOM	6168	CZ	PHE	649	17.666	49.220	-20.312	1.00	0.00	C
ATOM	6169	C	PHE	649	16.389	45.708	-16.910	1.00	0.00	C
ATOM	6170	O	PHE	649	17.000	45.625	-17.973	1.00	0.00	O
ATOM	6171	N	THR	650	16.746	45.010	-15.818	1.00	0.00	N
ATOM	6172	HN	THR	650	16.204	45.165	-14.968	1.00	0.00	H
ATOM	6173	CA	THR	650	17.825	44.065	-15.745	1.00	0.00	C
ATOM	6174	CB	THR	650	18.117	43.622	-14.344	1.00	0.00	C
ATOM	6175	OG1	THR	650	18.482	44.735	-13.547	1.00	0.00	O
ATOM	6176	HG1	THR	650	18.667	44.454	-12.659	1.00	0.00	H
ATOM	6177	CG2	THR	650	19.263	42.603	-14.378	1.00	0.00	C
ATOM	6178	C	THR	650	17.484	42.839	-16.519	1.00	0.00	C
ATOM	6179	O	THR	650	18.374	42.194	-17.075	1.00	0.00	O
ATOM	6180	N	ARG	651	16.200	42.426	-16.482	1.00	0.00	N
ATOM	6181	HN	ARG	651	15.523	42.896	-15.881	1.00	0.00	H
ATOM	6182	CA	ARG	651	15.800	41.317	-17.299	1.00	0.00	C
ATOM	6183	CB	ARG	651	15.943	39.944	-16.612	1.00	0.00	C
ATOM	6184	CG	ARG	651	15.059	39.759	-15.376	1.00	0.00	C
ATOM	6185	CD	ARG	651	15.266	40.814	-14.290	1.00	0.00	C
ATOM	6186	NE	ARG	651	16.559	40.513	-13.615	1.00	0.00	N
ATOM	6187	HE	ARG	651	17.414	40.981	-13.914	1.00	0.00	H
ATOM	6188	CZ	ARG	651	16.594	39.607	-12.594	1.00	0.00	C
ATOM	6189	NH1	ARG	651	15.452	38.963	-12.212	1.00	0.00	N
ATOM	6190	1HH1	ARG	651	14.570	39.169	-12.681	1.00	0.00	H
ATOM	6191	2HH1	ARG	651	15.478	38.286	-11.449	1.00	0.00	H
ATOM	6192	NH2	ARG	651	17.774	39.332	-11.966	1.00	0.00	N
ATOM	6193	1HH2	ARG	651	18.627	39.813	-12.251	1.00	0.00	H
ATOM	6194	2HH2	ARG	651	17.800	38.655	-11.203	1.00	0.00	H
ATOM	6195	C	ARG	651	14.349	41.508	-17.628	1.00	0.00	C
ATOM	6196	O	ARG	651	13.534	41.592	-16.713	1.00	0.00	O
ATOM	6197	N	ILE	652	14.004	41.612	-18.938	1.00	0.00	N
ATOM	6198	HN	ILE	652	14.742	41.552	-19.640	1.00	0.00	H
ATOM	6199	CA	ILE	652	12.638	41.804	-19.388	1.00	0.00	C
ATOM	6200	CB	ILE	652	11.974	43.132	-19.069	1.00	0.00	C
ATOM	6201	CG1	ILE	652	12.784	44.286	-19.683	1.00	0.00	C
ATOM	6202	CG2	ILE	652	11.612	43.289	-17.586	1.00	0.00	C
ATOM	6203	CD1	ILE	652	14.200	44.423	-19.124	1.00	0.00	C
ATOM	6204	C	ILE	652	12.591	41.859	-20.890	1.00	0.00	C
ATOM	6205	O	ILE	652	13.601	41.739	-21.581	1.00	0.00	O
ATOM	6206	N	ASP	653	11.362	42.083	-21.421	1.00	0.00	N
ATOM	6207	HN	ASP	653	10.562	42.149	-20.791	1.00	0.00	H
ATOM	6208	CA	ASP	653	11.139	42.232	-22.835	1.00	0.00	C
ATOM	6209	CB	ASP	653	9.674	42.050	-23.280	1.00	0.00	C
ATOM	6210	CG	ASP	653	8.814	43.135	-22.653	1.00	0.00	C
ATOM	6211	OD1	ASP	653	9.292	43.790	-21.689	1.00	0.00	O
ATOM	6212	OD2	ASP	653	7.663	43.323	-23.131	1.00	0.00	O
ATOM	6213	C	ASP	653	11.631	43.574	-23.294	1.00	0.00	C

ATOM	6214	O	ASP	653	11.525	44.583	-22.596	1.00	0.00	O
ATOM	6215	N	ASP	654	12.178	43.608	-24.523	1.00	0.00	N
ATOM	6216	HN	ASP	654	12.144	42.770	-25.103	1.00	0.00	H
ATOM	6217	CA	ASP	654	12.807	44.786	-25.040	1.00	0.00	C
ATOM	6218	CB	ASP	654	13.524	44.508	-26.378	1.00	0.00	C
ATOM	6219	CG	ASP	654	14.490	45.644	-26.667	1.00	0.00	C
ATOM	6220	OD1	ASP	654	14.038	46.820	-26.682	1.00	0.00	O
ATOM	6221	OD2	ASP	654	15.695	45.347	-26.879	1.00	0.00	O
ATOM	6222	C	ASP	654	11.831	45.909	-25.210	1.00	0.00	C
ATOM	6223	O	ASP	654	12.117	47.024	-24.776	1.00	0.00	O
ATOM	6224	N	PRO	655	10.681	45.694	-25.792	1.00	0.00	N
ATOM	6225	CA	PRO	655	9.794	46.813	-25.958	1.00	0.00	C
ATOM	6226	CD	PRO	655	10.556	44.745	-26.888	1.00	0.00	C
ATOM	6227	CB	PRO	655	8.808	46.417	-27.053	1.00	0.00	C
ATOM	6228	CG	PRO	655	9.591	45.395	-27.890	1.00	0.00	C
ATOM	6229	C	PRO	655	9.126	47.157	-24.673	1.00	0.00	C
ATOM	6230	O	PRO	655	9.011	46.296	-23.804	1.00	0.00	O
ATOM	6231	N	GLU	656	8.677	48.415	-24.544	1.00	0.00	N
ATOM	6232	HN	GLU	656	8.862	49.077	-25.297	1.00	0.00	H
ATOM	6233	CA	GLU	656	7.950	48.870	-23.396	1.00	0.00	C
ATOM	6234	CB	GLU	656	6.856	47.866	-22.997	1.00	0.00	C
ATOM	6235	CG	GLU	656	5.864	47.571	-24.126	1.00	0.00	C
ATOM	6236	CD	GLU	656	4.996	48.799	-24.345	1.00	0.00	C
ATOM	6237	OE1	GLU	656	4.155	49.095	-23.457	1.00	0.00	O
ATOM	6238	OE2	GLU	656	5.162	49.458	-25.407	1.00	0.00	O
ATOM	6239	C	GLU	656	8.877	49.014	-22.226	1.00	0.00	C
ATOM	6240	O	GLU	656	8.444	49.394	-21.138	1.00	0.00	O
ATOM	6241	N	THR	657	10.188	48.786	-22.429	1.00	0.00	N
ATOM	6242	HN	THR	657	10.511	48.478	-23.346	1.00	0.00	H
ATOM	6243	CA	THR	657	11.135	48.972	-21.368	1.00	0.00	C
ATOM	6244	CB	THR	657	12.533	48.577	-21.749	1.00	0.00	C
ATOM	6245	OG1	THR	657	12.952	49.309	-22.892	1.00	0.00	O
ATOM	6246	HG1	THR	657	12.925	50.243	-22.719	1.00	0.00	H
ATOM	6247	CG2	THR	657	12.577	47.064	-22.029	1.00	0.00	C
ATOM	6248	C	THR	657	11.132	50.433	-21.080	1.00	0.00	C
ATOM	6249	O	THR	657	11.372	50.866	-19.954	1.00	0.00	O
ATOM	6250	N	LYS	658	10.899	51.236	-22.135	1.00	0.00	N
ATOM	6251	HN	LYS	658	10.758	50.818	-23.055	1.00	0.00	H
ATOM	6252	CA	LYS	658	10.843	52.662	-22.002	1.00	0.00	C
ATOM	6253	CB	LYS	658	10.586	53.386	-23.335	1.00	0.00	C
ATOM	6254	CG	LYS	658	10.522	54.908	-23.191	1.00	0.00	C
ATOM	6255	CD	LYS	658	10.494	55.669	-24.520	1.00	0.00	C
ATOM	6256	CE	LYS	658	10.248	57.172	-24.353	1.00	0.00	C
ATOM	6257	NZ	LYS	658	10.062	57.807	-25.676	1.00	0.00	N
ATOM	6258	HZ1	LYS	658	9.898	58.808	-25.565	1.00	0.00	H
ATOM	6259	HZ2	LYS	658	9.322	57.357	-26.215	1.00	0.00	H
ATOM	6260	HZ3	LYS	658	10.842	57.616	-26.304	1.00	0.00	H
ATOM	6261	C	LYS	658	9.696	53.005	-21.116	1.00	0.00	C
ATOM	6262	O	LYS	658	9.827	53.834	-20.219	1.00	0.00	O
ATOM	6263	N	ARG	659	8.530	52.379	-21.362	1.00	0.00	N
ATOM	6264	HN	ARG	659	8.490	51.691	-22.114	1.00	0.00	H
ATOM	6265	CA	ARG	659	7.340	52.645	-20.603	1.00	0.00	C
ATOM	6266	CB	ARG	659	6.129	51.866	-21.139	1.00	0.00	C
ATOM	6267	CG	ARG	659	5.798	52.178	-22.596	1.00	0.00	C
ATOM	6268	CD	ARG	659	4.619	53.134	-22.776	1.00	0.00	C
ATOM	6269	NE	ARG	659	5.058	54.498	-22.366	1.00	0.00	N
ATOM	6270	HE	ARG	659	5.796	54.974	-22.885	1.00	0.00	H
ATOM	6271	CZ	ARG	659	4.472	55.109	-21.295	1.00	0.00	C
ATOM	6272	NH1	ARG	659	3.525	54.450	-20.566	1.00	0.00	N
ATOM	6273	1HH1	ARG	659	3.265	53.495	-20.813	1.00	0.00	H
ATOM	6274	2HH1	ARG	659	3.087	54.907	-19.766	1.00	0.00	H
ATOM	6275	NH2	ARG	659	4.820	56.387	-20.965	1.00	0.00	N
ATOM	6276	1HH2	ARG	659	5.528	56.880	-21.510	1.00	0.00	H
ATOM	6277	2HH2	ARG	659	4.382	56.844	-20.165	1.00	0.00	H
ATOM	6278	C	ARG	659	7.556	52.172	-19.209	1.00	0.00	C
ATOM	6279	O	ARG	659	7.206	52.851	-18.248	1.00	0.00	O
ATOM	6280	N	GLN	660	8.144	50.973	-19.066	1.00	0.00	N
ATOM	6281	HN	GLN	660	8.452	50.444	-19.882	1.00	0.00	H
ATOM	6282	CA	GLN	660	8.330	50.452	-17.749	1.00	0.00	C
ATOM	6283	CB	GLN	660	8.908	49.031	-17.761	1.00	0.00	C
ATOM	6284	CG	GLN	660	7.900	48.038	-18.339	1.00	0.00	C
ATOM	6285	CD	GLN	660	8.534	46.662	-18.358	1.00	0.00	C
ATOM	6286	OE1	GLN	660	7.937	45.680	-17.918	1.00	0.00	O
ATOM	6287	NE2	GLN	660	9.778	46.585	-18.900	1.00	0.00	N

ATOM	6288	1HE2	GLN	660	10.273	47.399	-19.265	1.00	0.00	H
ATOM	6289	2HE2	GLN	660	10.205	45.659	-18.913	1.00	0.00	H
ATOM	6290	C	GLN	660	9.265	51.362	-17.038	1.00	0.00	C
ATOM	6291	O	GLN	660	9.026	51.733	-15.889	1.00	0.00	O
ATOM	6292	N	ASN	661	10.353	51.766	-17.719	1.00	0.00	N
ATOM	6293	HN	ASN	661	10.522	51.449	-18.674	1.00	0.00	H
ATOM	6294	CA	ASN	661	11.264	52.651	-17.067	1.00	0.00	C
ATOM	6295	CB	ASN	661	12.462	53.049	-17.947	1.00	0.00	C
ATOM	6296	CG	ASN	661	13.508	51.953	-17.850	1.00	0.00	C
ATOM	6297	OD1	ASN	661	14.002	51.657	-16.763	1.00	0.00	O
ATOM	6298	ND2	ASN	661	13.863	51.334	-19.008	1.00	0.00	N
ATOM	6299	1HD2	ASN	661	13.453	51.579	-19.909	1.00	0.00	H
ATOM	6300	2HD2	ASN	661	14.566	50.598	-18.943	1.00	0.00	H
ATOM	6301	C	ASN	661	10.544	53.906	-16.727	1.00	0.00	C
ATOM	6302	O	ASN	661	10.257	54.143	-15.558	1.00	0.00	O
ATOM	6303	N	SER	662	10.081	54.639	-17.758	1.00	0.00	N
ATOM	6304	HN	SER	662	10.133	54.244	-18.697	1.00	0.00	H
ATOM	6305	CA	SER	662	9.517	55.950	-17.598	1.00	0.00	C
ATOM	6306	CB	SER	662	8.908	56.513	-18.897	1.00	0.00	C
ATOM	6307	OG	SER	662	7.806	55.724	-19.317	1.00	0.00	O
ATOM	6308	HG	SER	662	7.431	56.071	-20.118	1.00	0.00	H
ATOM	6309	C	SER	662	8.440	55.887	-16.571	1.00	0.00	C
ATOM	6310	O	SER	662	8.304	56.796	-15.755	1.00	0.00	O
ATOM	6311	N	ASN	663	7.662	54.794	-16.562	1.00	0.00	N
ATOM	6312	HN	ASN	663	7.802	54.045	-17.240	1.00	0.00	H
ATOM	6313	CA	ASN	663	6.633	54.709	-15.576	1.00	0.00	C
ATOM	6314	CB	ASN	663	5.762	53.455	-15.752	1.00	0.00	C
ATOM	6315	CG	ASN	663	4.737	53.433	-14.626	1.00	0.00	C
ATOM	6316	OD1	ASN	663	5.062	53.148	-13.474	1.00	0.00	O
ATOM	6317	ND2	ASN	663	3.458	53.739	-14.968	1.00	0.00	N
ATOM	6318	1HD2	ASN	663	3.189	53.975	-15.923	1.00	0.00	H
ATOM	6319	2HD2	ASN	663	2.771	53.724	-14.214	1.00	0.00	H
ATOM	6320	C	ASN	663	7.227	54.653	-14.206	1.00	0.00	C
ATOM	6321	O	ASN	663	7.031	55.558	-13.399	1.00	0.00	O
ATOM	6322	N	LEU	664	8.056	53.631	-13.933	1.00	0.00	N
ATOM	6323	HN	LEU	664	8.337	52.990	-14.675	1.00	0.00	H
ATOM	6324	CA	LEU	664	8.546	53.441	-12.599	1.00	0.00	C
ATOM	6325	CB	LEU	664	9.411	52.186	-12.468	1.00	0.00	C
ATOM	6326	CG	LEU	664	8.628	50.875	-12.666	1.00	0.00	C
ATOM	6327	CD1	LEU	664	9.549	49.653	-12.517	1.00	0.00	C
ATOM	6328	CD2	LEU	664	7.402	50.810	-11.738	1.00	0.00	C
ATOM	6329	C	LEU	664	9.331	54.650	-12.217	1.00	0.00	C
ATOM	6330	O	LEU	664	9.332	55.060	-11.058	1.00	0.00	O
ATOM	6331	N	PHE	665	10.024	55.259	-13.191	1.00	0.00	N
ATOM	6332	HN	PHE	665	10.011	54.873	-14.135	1.00	0.00	H
ATOM	6333	CA	PHE	665	10.779	56.441	-12.923	1.00	0.00	C
ATOM	6334	CB	PHE	665	11.451	56.917	-14.227	1.00	0.00	C
ATOM	6335	CG	PHE	665	11.233	58.369	-14.446	1.00	0.00	C
ATOM	6336	CD1	PHE	665	12.001	59.314	-13.816	1.00	0.00	C
ATOM	6337	CD2	PHE	665	10.234	58.772	-15.304	1.00	0.00	C
ATOM	6338	CE1	PHE	665	11.762	60.644	-14.051	1.00	0.00	C
ATOM	6339	CE2	PHE	665	9.993	60.102	-15.538	1.00	0.00	C
ATOM	6340	CZ	PHE	665	10.764	61.045	-14.906	1.00	0.00	C
ATOM	6341	C	PHE	665	9.879	57.488	-12.329	1.00	0.00	C
ATOM	6342	O	PHE	665	10.065	57.879	-11.178	1.00	0.00	O
ATOM	6343	N	SER	666	8.814	57.898	-13.037	1.00	0.00	N
ATOM	6344	HN	SER	666	8.603	57.475	-13.941	1.00	0.00	H
ATOM	6345	CA	SER	666	7.976	58.937	-12.511	1.00	0.00	C
ATOM	6346	CB	SER	666	6.827	59.347	-13.449	1.00	0.00	C
ATOM	6347	OG	SER	666	6.050	60.367	-12.838	1.00	0.00	O
ATOM	6348	HG	SER	666	5.341	60.620	-13.417	1.00	0.00	H
ATOM	6349	C	SER	666	7.347	58.446	-11.254	1.00	0.00	C
ATOM	6350	O	SER	666	7.170	59.200	-10.302	1.00	0.00	O
ATOM	6351	N	LEU	667	7.036	57.142	-11.206	1.00	0.00	N
ATOM	6352	HN	LEU	667	7.303	56.533	-11.980	1.00	0.00	H
ATOM	6353	CA	LEU	667	6.336	56.592	-10.087	1.00	0.00	C
ATOM	6354	CB	LEU	667	6.164	55.070	-10.204	1.00	0.00	C
ATOM	6355	CG	LEU	667	5.076	54.483	-9.285	1.00	0.00	C
ATOM	6356	CD1	LEU	667	5.229	54.925	-7.820	1.00	0.00	C
ATOM	6357	CD2	LEU	667	3.681	54.746	-9.866	1.00	0.00	C
ATOM	6358	C	LEU	667	7.194	56.839	-8.894	1.00	0.00	C
ATOM	6359	O	LEU	667	6.717	57.231	-7.831	1.00	0.00	O
ATOM	6360	N	LEU	668	8.510	56.638	-9.056	1.00	0.00	N
ATOM	6361	HN	LEU	668	8.880	56.383	-9.972	1.00	0.00	H

ATOM	6362	CA	LEU	668	9.391	56.782	-7.944	1.00	0.00	C
ATOM	6363	CB	LEU	668	10.834	56.444	-8.348	1.00	0.00	C
ATOM	6364	CG	LEU	668	11.777	56.140	-7.172	1.00	0.00	C
ATOM	6365	CD1	LEU	668	13.190	55.841	-7.680	1.00	0.00	C
ATOM	6366	CD2	LEU	668	11.741	57.221	-6.084	1.00	0.00	C
ATOM	6367	C	LEU	668	9.303	58.216	-7.508	1.00	0.00	C
ATOM	6368	O	LEU	668	9.239	58.510	-6.314	1.00	0.00	O
ATOM	6369	N	PHE	669	9.301	59.160	-8.472	1.00	0.00	N
ATOM	6370	HN	PHE	669	9.342	58.883	-9.453	1.00	0.00	H
ATOM	6371	CA	PHE	669	9.241	60.553	-8.125	1.00	0.00	C
ATOM	6372	CB	PHE	669	9.420	61.475	-9.340	1.00	0.00	C
ATOM	6373	CG	PHE	669	9.004	62.844	-8.922	1.00	0.00	C
ATOM	6374	CD1	PHE	669	9.835	63.638	-8.167	1.00	0.00	C
ATOM	6375	CD2	PHE	669	7.760	63.326	-9.263	1.00	0.00	C
ATOM	6376	CE1	PHE	669	9.440	64.898	-7.779	1.00	0.00	C
ATOM	6377	CE2	PHE	669	7.360	64.585	-8.879	1.00	0.00	C
ATOM	6378	CZ	PHE	669	8.203	65.374	-8.136	1.00	0.00	C
ATOM	6379	C	PHE	669	7.947	60.930	-7.485	1.00	0.00	C
ATOM	6380	O	PHE	669	7.906	61.337	-6.331	1.00	0.00	O
ATOM	6381	N	LEU	670	6.836	60.702	-8.190	1.00	0.00	N
ATOM	6382	HN	LEU	670	6.908	60.178	-9.062	1.00	0.00	H
ATOM	6383	CA	LEU	670	5.551	61.163	-7.772	1.00	0.00	C
ATOM	6384	CB	LEU	670	4.488	60.619	-8.743	1.00	0.00	C
ATOM	6385	CG	LEU	670	3.031	61.010	-8.455	1.00	0.00	C
ATOM	6386	CD1	LEU	670	2.464	60.319	-7.204	1.00	0.00	C
ATOM	6387	CD2	LEU	670	2.881	62.534	-8.434	1.00	0.00	C
ATOM	6388	C	LEU	670	5.280	60.601	-6.427	1.00	0.00	C
ATOM	6389	O	LEU	670	4.878	61.317	-5.509	1.00	0.00	O
ATOM	6390	N	ALA	671	5.509	59.288	-6.267	1.00	0.00	N
ATOM	6391	HN	ALA	671	5.904	58.711	-7.010	1.00	0.00	H
ATOM	6392	CA	ALA	671	5.164	58.752	-4.992	1.00	0.00	C
ATOM	6393	CB	ALA	671	5.333	57.227	-4.932	1.00	0.00	C
ATOM	6394	C	ALA	671	6.025	59.336	-3.921	1.00	0.00	C
ATOM	6395	O	ALA	671	5.547	60.062	-3.055	1.00	0.00	O
ATOM	6396	N	LEU	672	7.349	59.141	-4.018	1.00	0.00	N
ATOM	6397	HN	LEU	672	7.754	58.717	-4.853	1.00	0.00	H
ATOM	6398	CA	LEU	672	8.178	59.541	-2.924	1.00	0.00	C
ATOM	6399	CB	LEU	672	9.625	59.057	-3.157	1.00	0.00	C
ATOM	6400	CG	LEU	672	10.668	59.408	-2.081	1.00	0.00	C
ATOM	6401	CD1	LEU	672	11.954	58.605	-2.295	1.00	0.00	C
ATOM	6402	CD2	LEU	672	10.986	60.907	-2.061	1.00	0.00	C
ATOM	6403	C	LEU	672	8.132	61.022	-2.753	1.00	0.00	C
ATOM	6404	O	LEU	672	7.702	61.505	-1.708	1.00	0.00	O
ATOM	6405	N	GLY	673	8.457	61.784	-3.816	1.00	0.00	N
ATOM	6406	HN	GLY	673	8.604	61.349	-4.727	1.00	0.00	H
ATOM	6407	CA	GLY	673	8.596	63.199	-3.672	1.00	0.00	C
ATOM	6408	C	GLY	673	7.329	63.799	-3.163	1.00	0.00	C
ATOM	6409	O	GLY	673	7.353	64.565	-2.202	1.00	0.00	O
ATOM	6410	N	ILE	674	6.183	63.473	-3.784	1.00	0.00	N
ATOM	6411	HN	ILE	674	6.167	62.776	-4.528	1.00	0.00	H
ATOM	6412	CA	ILE	674	4.984	64.138	-3.366	1.00	0.00	C
ATOM	6413	CB	ILE	674	3.852	63.908	-4.321	1.00	0.00	C
ATOM	6414	CG1	ILE	674	4.263	64.378	-5.729	1.00	0.00	C
ATOM	6415	CG2	ILE	674	2.596	64.598	-3.762	1.00	0.00	C
ATOM	6416	CD1	ILE	674	4.790	65.811	-5.770	1.00	0.00	C
ATOM	6417	C	ILE	674	4.529	63.702	-2.013	1.00	0.00	C
ATOM	6418	O	ILE	674	4.496	64.515	-1.092	1.00	0.00	O
ATOM	6419	N	ILE	675	4.309	62.385	-1.821	1.00	0.00	N
ATOM	6420	HN	ILE	675	4.619	61.710	-2.520	1.00	0.00	H
ATOM	6421	CA	ILE	675	3.639	61.931	-0.634	1.00	0.00	C
ATOM	6422	CB	ILE	675	3.376	60.453	-0.607	1.00	0.00	C
ATOM	6423	CG1	ILE	675	2.318	60.147	0.462	1.00	0.00	C
ATOM	6424	CG2	ILE	675	4.703	59.703	-0.426	1.00	0.00	C
ATOM	6425	CD1	ILE	675	1.708	58.751	0.333	1.00	0.00	C
ATOM	6426	C	ILE	675	4.415	62.353	0.571	1.00	0.00	C
ATOM	6427	O	ILE	675	3.831	62.774	1.569	1.00	0.00	O
ATOM	6428	N	SER	676	5.753	62.269	0.503	1.00	0.00	N
ATOM	6429	HN	SER	676	6.198	61.934	-0.352	1.00	0.00	H
ATOM	6430	CA	SER	676	6.559	62.647	1.624	1.00	0.00	C
ATOM	6431	CB	SER	676	8.037	62.292	1.440	1.00	0.00	C
ATOM	6432	OG	SER	676	8.763	62.694	2.588	1.00	0.00	O
ATOM	6433	HG	SER	676	9.680	62.474	2.474	1.00	0.00	H
ATOM	6434	C	SER	676	6.466	64.115	1.880	1.00	0.00	C
ATOM	6435	O	SER	676	6.256	64.507	3.027	1.00	0.00	O

ATOM	6436	N	PHE	677	6.555	64.948	0.814	1.00	0.00	N
ATOM	6437	HN	PHE	677	6.639	64.549	-0.121	1.00	0.00	H
ATOM	6438	CA	PHE	677	6.534	66.378	0.963	1.00	0.00	C
ATOM	6439	CB	PHE	677	6.450	67.140	-0.371	1.00	0.00	C
ATOM	6440	CG	PHE	677	6.549	68.595	-0.052	1.00	0.00	C
ATOM	6441	CD1	PHE	677	5.463	69.298	0.417	1.00	0.00	C
ATOM	6442	CD2	PHE	677	7.735	69.265	-0.233	1.00	0.00	C
ATOM	6443	CE1	PHE	677	5.561	70.639	0.709	1.00	0.00	C
ATOM	6444	CE2	PHE	677	7.841	70.605	0.057	1.00	0.00	C
ATOM	6445	CZ	PHE	677	6.753	71.298	0.530	1.00	0.00	C
ATOM	6446	C	PHE	677	5.273	66.650	1.699	1.00	0.00	C
ATOM	6447	O	PHE	677	5.232	67.479	2.606	1.00	0.00	O
ATOM	6448	N	ILE	678	4.218	65.910	1.327	1.00	0.00	N
ATOM	6449	HN	ILE	678	4.313	65.251	0.555	1.00	0.00	H
ATOM	6450	CA	ILE	678	2.963	66.033	1.998	1.00	0.00	C
ATOM	6451	CB	ILE	678	1.940	65.075	1.467	1.00	0.00	C
ATOM	6452	CG1	ILE	678	1.619	65.362	-0.007	1.00	0.00	C
ATOM	6453	CG2	ILE	678	0.725	65.110	2.409	1.00	0.00	C
ATOM	6454	CD1	ILE	678	0.900	64.205	-0.697	1.00	0.00	C
ATOM	6455	C	ILE	678	3.160	65.618	3.420	1.00	0.00	C
ATOM	6456	O	ILE	678	2.963	66.420	4.327	1.00	0.00	O
ATOM	6457	N	THR	679	3.707	64.401	3.623	1.00	0.00	N
ATOM	6458	HN	THR	679	4.068	63.897	2.813	1.00	0.00	H
ATOM	6459	CA	THR	679	3.811	63.773	4.912	1.00	0.00	C
ATOM	6460	CB	THR	679	4.729	62.596	4.860	1.00	0.00	C
ATOM	6461	OG1	THR	679	4.228	61.604	3.980	1.00	0.00	O
ATOM	6462	HG1	THR	679	4.812	60.855	3.947	1.00	0.00	H
ATOM	6463	CG2	THR	679	4.889	62.040	6.270	1.00	0.00	C
ATOM	6464	C	THR	679	4.434	64.722	5.883	1.00	0.00	C
ATOM	6465	O	THR	679	3.926	64.905	6.989	1.00	0.00	O
ATOM	6466	N	PHE	680	5.561	65.345	5.505	1.00	0.00	N
ATOM	6467	HN	PHE	680	5.958	65.176	4.581	1.00	0.00	H
ATOM	6468	CA	PHE	680	6.200	66.250	6.414	1.00	0.00	C
ATOM	6469	CB	PHE	680	7.558	66.758	5.912	1.00	0.00	C
ATOM	6470	CG	PHE	680	8.489	65.605	6.033	1.00	0.00	C
ATOM	6471	CD1	PHE	680	9.162	65.386	7.211	1.00	0.00	C
ATOM	6472	CD2	PHE	680	8.674	64.731	4.988	1.00	0.00	C
ATOM	6473	CE1	PHE	680	10.019	64.322	7.342	1.00	0.00	C
ATOM	6474	CE2	PHE	680	9.533	63.664	5.112	1.00	0.00	C
ATOM	6475	CZ	PHE	680	10.210	63.460	6.290	1.00	0.00	C
ATOM	6476	C	PHE	680	5.327	67.423	6.656	1.00	0.00	C
ATOM	6477	O	PHE	680	4.979	67.679	7.805	1.00	0.00	O
ATOM	6478	N	PHE	681	4.858	68.077	5.573	1.00	0.00	N
ATOM	6479	HN	PHE	681	5.014	67.678	4.647	1.00	0.00	H
ATOM	6480	CA	PHE	681	4.147	69.317	5.686	1.00	0.00	C
ATOM	6481	CB	PHE	681	3.566	69.807	4.348	1.00	0.00	C
ATOM	6482	CG	PHE	681	2.905	71.117	4.611	1.00	0.00	C
ATOM	6483	CD1	PHE	681	3.660	72.263	4.715	1.00	0.00	C
ATOM	6484	CD2	PHE	681	1.538	71.208	4.745	1.00	0.00	C
ATOM	6485	CE1	PHE	681	3.066	73.479	4.956	1.00	0.00	C
ATOM	6486	CE2	PHE	681	0.938	72.422	4.988	1.00	0.00	C
ATOM	6487	CZ	PHE	681	1.701	73.559	5.093	1.00	0.00	C
ATOM	6488	C	PHE	681	3.008	69.141	6.639	1.00	0.00	C
ATOM	6489	O	PHE	681	2.865	69.944	7.558	1.00	0.00	O
ATOM	6490	N	LEU	682	2.184	68.085	6.476	1.00	0.00	N
ATOM	6491	HN	LEU	682	2.342	67.404	5.733	1.00	0.00	H
ATOM	6492	CA	LEU	682	1.077	67.949	7.381	1.00	0.00	C
ATOM	6493	CB	LEU	682	-0.035	66.985	6.893	1.00	0.00	C
ATOM	6494	CG	LEU	682	-0.083	65.548	7.453	1.00	0.00	C
ATOM	6495	CD1	LEU	682	1.204	64.768	7.193	1.00	0.00	C
ATOM	6496	CD2	LEU	682	-0.554	65.515	8.914	1.00	0.00	C
ATOM	6497	C	LEU	682	1.530	67.596	8.776	1.00	0.00	C
ATOM	6498	O	LEU	682	1.112	68.246	9.730	1.00	0.00	O
ATOM	6499	N	GLN	683	2.442	66.609	8.938	1.00	0.00	N
ATOM	6500	HN	GLN	683	2.856	66.175	8.113	1.00	0.00	H
ATOM	6501	CA	GLN	683	2.844	66.154	10.250	1.00	0.00	C
ATOM	6502	CB	GLN	683	3.863	64.999	10.169	1.00	0.00	C
ATOM	6503	CG	GLN	683	5.203	65.374	9.523	1.00	0.00	C
ATOM	6504	CD	GLN	683	5.964	64.082	9.249	1.00	0.00	C
ATOM	6505	OE1	GLN	683	7.193	64.044	9.282	1.00	0.00	O
ATOM	6506	NE2	GLN	683	5.209	62.991	8.955	1.00	0.00	N
ATOM	6507	1HE2	GLN	683	5.718	62.126	8.772	1.00	0.00	H
ATOM	6508	2HE2	GLN	683	4.190	63.023	8.928	1.00	0.00	H
ATOM	6509	C	GLN	683	3.482	67.281	10.991	1.00	0.00	C



ATOM	6510	O	GLN	683	3.155	67.540	12.146	1.00	0.00	O
ATOM	6511	N	GLY	684	4.383	68.010	10.318	1.00	0.00	N
ATOM	6512	HN	GLY	684	4.573	67.780	9.343	1.00	0.00	H
ATOM	6513	CA	GLY	684	5.086	69.097	10.919	1.00	0.00	C
ATOM	6514	C	GLY	684	4.062	70.107	11.313	1.00	0.00	C
ATOM	6515	O	GLY	684	4.232	70.822	12.298	1.00	0.00	O
ATOM	6516	N	PHE	685	2.994	70.233	10.505	1.00	0.00	N
ATOM	6517	HN	PHE	685	2.922	69.641	9.677	1.00	0.00	H
ATOM	6518	CA	PHE	685	1.956	71.179	10.781	1.00	0.00	C
ATOM	6519	CB	PHE	685	0.879	71.152	9.681	1.00	0.00	C
ATOM	6520	CG	PHE	685	-0.098	72.258	9.892	1.00	0.00	C
ATOM	6521	CD1	PHE	685	-1.135	72.130	10.786	1.00	0.00	C
ATOM	6522	CD2	PHE	685	0.019	73.424	9.174	1.00	0.00	C
ATOM	6523	CE1	PHE	685	-2.034	73.153	10.968	1.00	0.00	C
ATOM	6524	CE2	PHE	685	-0.878	74.451	9.350	1.00	0.00	C
ATOM	6525	CZ	PHE	685	-1.908	74.318	10.250	1.00	0.00	C
ATOM	6526	C	PHE	685	1.288	70.842	12.086	1.00	0.00	C
ATOM	6527	O	PHE	685	1.236	71.678	12.985	1.00	0.00	O
ATOM	6528	N	THR	686	0.766	69.603	12.229	1.00	0.00	N
ATOM	6529	HN	THR	686	0.890	68.921	11.481	1.00	0.00	H
ATOM	6530	CA	THR	686	0.039	69.224	13.414	1.00	0.00	C
ATOM	6531	CB	THR	686	-0.651	67.895	13.286	1.00	0.00	C
ATOM	6532	OG1	THR	686	0.304	66.861	13.105	1.00	0.00	O
ATOM	6533	HG1	THR	686	-0.132	66.021	13.024	1.00	0.00	H
ATOM	6534	CG2	THR	686	-1.614	67.941	12.087	1.00	0.00	C
ATOM	6535	C	THR	686	0.913	69.127	14.637	1.00	0.00	C
ATOM	6536	O	THR	686	0.661	69.816	15.623	1.00	0.00	O
ATOM	6537	N	PHE	687	1.986	68.299	14.602	1.00	0.00	N
ATOM	6538	HN	PHE	687	2.238	67.835	13.729	1.00	0.00	H
ATOM	6539	CA	PHE	687	2.775	68.069	15.788	1.00	0.00	C
ATOM	6540	CB	PHE	687	3.777	66.887	15.733	1.00	0.00	C
ATOM	6541	CG	PHE	687	5.007	67.154	14.924	1.00	0.00	C
ATOM	6542	CD1	PHE	687	6.013	67.947	15.431	1.00	0.00	C
ATOM	6543	CD2	PHE	687	5.191	66.571	13.691	1.00	0.00	C
ATOM	6544	CE1	PHE	687	7.158	68.191	14.709	1.00	0.00	C
ATOM	6545	CE2	PHE	687	6.336	66.810	12.963	1.00	0.00	C
ATOM	6546	CZ	PHE	687	7.321	67.623	13.468	1.00	0.00	C
ATOM	6547	C	PHE	687	3.509	69.313	16.164	1.00	0.00	C
ATOM	6548	O	PHE	687	3.681	69.603	17.346	1.00	0.00	O
ATOM	6549	N	GLY	688	3.993	70.075	15.169	1.00	0.00	N
ATOM	6550	HN	GLY	688	3.855	69.799	14.197	1.00	0.00	H
ATOM	6551	CA	GLY	688	4.705	71.278	15.484	1.00	0.00	C
ATOM	6552	C	GLY	688	3.759	72.176	16.212	1.00	0.00	C
ATOM	6553	O	GLY	688	4.129	72.807	17.202	1.00	0.00	O
ATOM	6554	N	LYS	689	2.495	72.222	15.748	1.00	0.00	N
ATOM	6555	HN	LYS	689	2.249	71.635	14.951	1.00	0.00	H
ATOM	6556	CA	LYS	689	1.479	73.057	16.320	1.00	0.00	C
ATOM	6557	CB	LYS	689	0.113	72.889	15.644	1.00	0.00	C
ATOM	6558	CG	LYS	689	-0.941	73.858	16.176	1.00	0.00	C
ATOM	6559	CD	LYS	689	-2.244	73.810	15.384	1.00	0.00	C
ATOM	6560	CE	LYS	689	-2.827	72.398	15.297	1.00	0.00	C
ATOM	6561	NZ	LYS	689	-2.972	71.820	16.652	1.00	0.00	N
ATOM	6562	HZ1	LYS	689	-3.361	70.879	16.594	1.00	0.00	H
ATOM	6563	HZ2	LYS	689	-3.521	72.422	17.266	1.00	0.00	H
ATOM	6564	HZ3	LYS	689	-2.093	71.838	17.170	1.00	0.00	H
ATOM	6565	C	LYS	689	1.312	72.641	17.739	1.00	0.00	C
ATOM	6566	O	LYS	689	0.990	73.463	18.593	1.00	0.00	O
ATOM	6567	N	ALA	690	1.491	71.337	18.014	1.00	0.00	N
ATOM	6568	HN	ALA	690	1.701	70.690	17.254	1.00	0.00	H
ATOM	6569	CA	ALA	690	1.392	70.839	19.354	1.00	0.00	C
ATOM	6570	CB	ALA	690	1.597	69.317	19.456	1.00	0.00	C
ATOM	6571	C	ALA	690	2.473	71.487	20.151	1.00	0.00	C
ATOM	6572	O	ALA	690	2.283	71.805	21.322	1.00	0.00	O
ATOM	6573	N	GLY	691	3.661	71.658	19.543	1.00	0.00	N
ATOM	6574	HN	GLY	691	3.786	71.334	18.584	1.00	0.00	H
ATOM	6575	CA	GLY	691	4.755	72.289	20.223	1.00	0.00	C
ATOM	6576	C	GLY	691	4.423	73.721	20.473	1.00	0.00	C
ATOM	6577	O	GLY	691	4.725	74.265	21.534	1.00	0.00	O
ATOM	6578	N	GLU	692	3.815	74.392	19.480	1.00	0.00	N
ATOM	6579	HN	GLU	692	3.562	73.924	18.610	1.00	0.00	H
ATOM	6580	CA	GLU	692	3.534	75.776	19.677	1.00	0.00	C
ATOM	6581	CB	GLU	692	2.820	76.374	18.461	1.00	0.00	C
ATOM	6582	CG	GLU	692	3.663	76.299	17.188	1.00	0.00	C
ATOM	6583	CD	GLU	692	2.731	76.568	16.020	1.00	0.00	C

ATOM	6584	OE1	GLU	692	1.623	77.110	16.279	1.00	0.00	O
ATOM	6585	OE2	GLU	692	3.103	76.235	14.865	1.00	0.00	O
ATOM	6586	C	GLU	692	2.604	75.891	20.839	1.00	0.00	C
ATOM	6587	O	GLU	692	3.005	76.354	21.901	1.00	0.00	O
ATOM	6588	N	ILE	693	1.392	75.313	20.717	1.00	0.00	N
ATOM	6589	HN	ILE	693	1.195	74.731	19.903	1.00	0.00	H
ATOM	6590	CA	ILE	693	0.374	75.501	21.709	1.00	0.00	C
ATOM	6591	CB	ILE	693	-0.900	74.768	21.405	1.00	0.00	C
ATOM	6592	CG1	ILE	693	-0.664	73.248	21.374	1.00	0.00	C
ATOM	6593	CG2	ILE	693	-1.478	75.350	20.105	1.00	0.00	C
ATOM	6594	CD1	ILE	693	-1.956	72.431	21.350	1.00	0.00	C
ATOM	6595	C	ILE	693	0.872	75.028	23.026	1.00	0.00	C
ATOM	6596	O	ILE	693	0.734	75.750	24.008	1.00	0.00	O
ATOM	6597	N	LEU	694	1.526	73.852	23.066	1.00	0.00	N
ATOM	6598	HN	LEU	694	1.704	73.351	22.195	1.00	0.00	H
ATOM	6599	CA	LEU	694	1.977	73.288	24.301	1.00	0.00	C
ATOM	6600	CB	LEU	694	2.860	72.048	24.093	1.00	0.00	C
ATOM	6601	CG	LEU	694	3.342	71.451	25.421	1.00	0.00	C
ATOM	6602	CD1	LEU	694	2.152	70.996	26.256	1.00	0.00	C
ATOM	6603	CD2	LEU	694	4.380	70.340	25.211	1.00	0.00	C
ATOM	6604	C	LEU	694	2.821	74.303	24.998	1.00	0.00	C
ATOM	6605	O	LEU	694	2.632	74.538	26.185	1.00	0.00	O
ATOM	6606	N	THR	695	3.752	74.953	24.277	1.00	0.00	N
ATOM	6607	HN	THR	695	3.845	74.727	23.287	1.00	0.00	H
ATOM	6608	CA	THR	695	4.623	75.953	24.838	1.00	0.00	C
ATOM	6609	CB	THR	695	5.659	76.395	23.848	1.00	0.00	C
ATOM	6610	OG1	THR	695	6.452	75.288	23.444	1.00	0.00	O
ATOM	6611	HG1	THR	695	7.108	75.568	22.817	1.00	0.00	H
ATOM	6612	CG2	THR	695	6.537	77.476	24.493	1.00	0.00	C
ATOM	6613	C	THR	695	3.852	77.178	25.265	1.00	0.00	C
ATOM	6614	O	THR	695	4.131	77.749	26.317	1.00	0.00	O
ATOM	6615	N	LYS	696	2.898	77.637	24.429	1.00	0.00	N
ATOM	6616	HN	LYS	696	2.726	77.092	23.584	1.00	0.00	H
ATOM	6617	CA	LYS	696	2.096	78.825	24.612	1.00	0.00	C
ATOM	6618	CB	LYS	696	1.066	78.933	23.487	1.00	0.00	C
ATOM	6619	CG	LYS	696	1.639	78.721	22.091	1.00	0.00	C
ATOM	6620	CD	LYS	696	2.332	79.934	21.506	1.00	0.00	C
ATOM	6621	CE	LYS	696	1.364	80.673	20.601	1.00	0.00	C
ATOM	6622	NZ	LYS	696	0.892	79.759	19.534	1.00	0.00	N
ATOM	6623	HZ1	LYS	696	0.241	80.256	18.926	1.00	0.00	H
ATOM	6624	HZ2	LYS	696	0.489	78.901	19.911	1.00	0.00	H
ATOM	6625	HZ3	LYS	696	1.664	79.341	19.014	1.00	0.00	H
ATOM	6626	C	LYS	696	1.221	78.688	25.800	1.00	0.00	C
ATOM	6627	O	LYS	696	1.343	79.421	26.778	1.00	0.00	O
ATOM	6628	N	ARG	697	0.347	77.670	25.746	1.00	0.00	N
ATOM	6629	HN	ARG	697	0.378	77.040	24.944	1.00	0.00	H
ATOM	6630	CA	ARG	697	-0.621	77.435	26.764	1.00	0.00	C
ATOM	6631	CB	ARG	697	-1.377	76.104	26.645	1.00	0.00	C
ATOM	6632	CG	ARG	697	-2.427	75.998	25.548	1.00	0.00	C
ATOM	6633	CD	ARG	697	-3.161	74.663	25.653	1.00	0.00	C
ATOM	6634	NE	ARG	697	-4.050	74.508	24.474	1.00	0.00	N
ATOM	6635	HE	ARG	697	-4.557	75.306	24.090	1.00	0.00	H
ATOM	6636	CZ	ARG	697	-4.169	73.268	23.920	1.00	0.00	C
ATOM	6637	NH1	ARG	697	-3.436	72.232	24.430	1.00	0.00	N
ATOM	6638	1HH1	ARG	697	-3.525	71.304	24.016	1.00	0.00	H
ATOM	6639	2HH1	ARG	697	-2.808	72.384	25.219	1.00	0.00	H
ATOM	6640	NH2	ARG	697	-5.008	73.065	22.865	1.00	0.00	N
ATOM	6641	1HH2	ARG	697	-5.097	72.137	22.451	1.00	0.00	H
ATOM	6642	2HH2	ARG	697	-5.555	73.838	22.485	1.00	0.00	H
ATOM	6643	C	ARG	697	0.191	77.249	27.987	1.00	0.00	C
ATOM	6644	O	ARG	697	-0.292	77.495	29.085	1.00	0.00	O
ATOM	6645	N	LEU	698	1.410	76.701	27.821	1.00	0.00	N
ATOM	6646	HN	LEU	698	1.730	76.463	26.882	1.00	0.00	H
ATOM	6647	CA	LEU	698	2.263	76.448	28.940	1.00	0.00	C
ATOM	6648	CB	LEU	698	3.400	75.463	28.626	1.00	0.00	C
ATOM	6649	CG	LEU	698	4.165	74.943	29.852	1.00	0.00	C
ATOM	6650	CD1	LEU	698	3.210	74.369	30.911	1.00	0.00	C
ATOM	6651	CD2	LEU	698	5.192	73.887	29.417	1.00	0.00	C
ATOM	6652	C	LEU	698	2.837	77.699	29.555	1.00	0.00	C
ATOM	6653	O	LEU	698	2.694	77.882	30.759	1.00	0.00	O
ATOM	6654	N	ARG	699	3.450	78.626	28.776	1.00	0.00	N
ATOM	6655	HN	ARG	699	3.498	78.497	27.765	1.00	0.00	H
ATOM	6656	CA	ARG	699	4.034	79.795	29.388	1.00	0.00	C
ATOM	6657	CB	ARG	699	4.677	80.805	28.418	1.00	0.00	C

ATOM	6658	CG	ARG	699	5.985	80.348	27.770	1.00	0.00	C
ATOM	6659	CD	ARG	699	6.766	81.504	27.138	1.00	0.00	C
ATOM	6660	NE	ARG	699	7.764	80.928	26.193	1.00	0.00	N
ATOM	6661	HE	ARG	699	7.697	79.949	25.914	1.00	0.00	H
ATOM	6662	CZ	ARG	699	8.767	81.712	25.702	1.00	0.00	C
ATOM	6663	NH1	ARG	699	8.915	82.991	26.157	1.00	0.00	N
ATOM	6664	1HH1	ARG	699	8.279	83.357	26.865	1.00	0.00	H
ATOM	6665	2HH1	ARG	699	9.665	83.577	25.790	1.00	0.00	H
ATOM	6666	NH2	ARG	699	9.618	81.222	24.754	1.00	0.00	N
ATOM	6667	1HH2	ARG	699	9.507	80.267	24.414	1.00	0.00	H
ATOM	6668	2HH2	ARG	699	10.368	81.808	24.387	1.00	0.00	H
ATOM	6669	C	ARG	699	2.926	80.516	30.069	1.00	0.00	C
ATOM	6670	O	ARG	699	3.103	81.064	31.154	1.00	0.00	O
ATOM	6671	N	TYR	700	1.749	80.533	29.425	1.00	0.00	N
ATOM	6672	HN	TYR	700	1.681	80.083	28.512	1.00	0.00	H
ATOM	6673	CA	TYR	700	0.588	81.160	29.974	1.00	0.00	C
ATOM	6674	CB	TYR	700	-0.603	81.100	29.003	1.00	0.00	C
ATOM	6675	CG	TYR	700	-1.818	81.651	29.670	1.00	0.00	C
ATOM	6676	CD1	TYR	700	-1.969	83.005	29.857	1.00	0.00	C
ATOM	6677	CD2	TYR	700	-2.820	80.812	30.094	1.00	0.00	C
ATOM	6678	CE1	TYR	700	-3.095	83.512	30.464	1.00	0.00	C
ATOM	6679	CE2	TYR	700	-3.947	81.310	30.701	1.00	0.00	C
ATOM	6680	CZ	TYR	700	-4.087	82.664	30.888	1.00	0.00	C
ATOM	6681	OH	TYR	700	-5.246	83.172	31.511	1.00	0.00	O
ATOM	6682	HH	TYR	700	-5.343	84.108	31.640	1.00	0.00	H
ATOM	6683	C	TYR	700	0.199	80.441	31.213	1.00	0.00	C
ATOM	6684	O	TYR	700	0.066	81.052	32.268	1.00	0.00	O
ATOM	6685	N	MET	701	0.097	79.104	31.139	1.00	0.00	N
ATOM	6686	HN	MET	701	0.381	78.617	30.289	1.00	0.00	H
ATOM	6687	CA	MET	701	-0.409	78.365	32.250	1.00	0.00	C
ATOM	6688	CB	MET	701	-0.482	76.857	31.960	1.00	0.00	C
ATOM	6689	CG	MET	701	-1.501	76.127	32.836	1.00	0.00	C
ATOM	6690	SD	MET	701	-1.915	74.449	32.266	1.00	0.00	S
ATOM	6691	CE	MET	701	-2.521	75.015	30.655	1.00	0.00	C
ATOM	6692	C	MET	701	0.497	78.610	33.412	1.00	0.00	C
ATOM	6693	O	MET	701	0.027	78.927	34.500	1.00	0.00	O
ATOM	6694	N	VAL	702	1.822	78.539	33.194	1.00	0.00	N
ATOM	6695	HN	VAL	702	2.163	78.354	32.250	1.00	0.00	H
ATOM	6696	CA	VAL	702	2.765	78.717	34.255	1.00	0.00	C
ATOM	6697	CB	VAL	702	4.170	78.374	33.834	1.00	0.00	C
ATOM	6698	CG1	VAL	702	4.717	79.461	32.898	1.00	0.00	C
ATOM	6699	CG2	VAL	702	5.014	78.119	35.088	1.00	0.00	C
ATOM	6700	C	VAL	702	2.715	80.126	34.784	1.00	0.00	C
ATOM	6701	O	VAL	702	2.657	80.320	35.997	1.00	0.00	O
ATOM	6702	N	PHE	703	2.693	81.153	33.905	1.00	0.00	N
ATOM	6703	HN	PHE	703	2.637	80.969	32.903	1.00	0.00	H
ATOM	6704	CA	PHE	703	2.749	82.511	34.390	1.00	0.00	C
ATOM	6705	CB	PHE	703	2.708	83.596	33.294	1.00	0.00	C
ATOM	6706	CG	PHE	703	3.141	84.894	33.913	1.00	0.00	C
ATOM	6707	CD1	PHE	703	2.370	85.562	34.843	1.00	0.00	C
ATOM	6708	CD2	PHE	703	4.361	85.436	33.581	1.00	0.00	C
ATOM	6709	CE1	PHE	703	2.786	86.742	35.411	1.00	0.00	C
ATOM	6710	CE2	PHE	703	4.783	86.620	34.140	1.00	0.00	C
ATOM	6711	CZ	PHE	703	3.998	87.278	35.057	1.00	0.00	C
ATOM	6712	C	PHE	703	1.546	82.776	35.224	1.00	0.00	C
ATOM	6713	O	PHE	703	1.648	83.288	36.337	1.00	0.00	O
ATOM	6714	N	ARG	704	0.367	82.424	34.697	1.00	0.00	N
ATOM	6715	HN	ARG	704	0.343	81.960	33.789	1.00	0.00	H
ATOM	6716	CA	ARG	704	-0.852	82.685	35.379	1.00	0.00	C
ATOM	6717	CB	ARG	704	-2.080	82.202	34.591	1.00	0.00	C
ATOM	6718	CG	ARG	704	-2.212	82.905	33.236	1.00	0.00	C
ATOM	6719	CD	ARG	704	-2.489	84.407	33.337	1.00	0.00	C
ATOM	6720	NE	ARG	704	-3.892	84.579	33.808	1.00	0.00	N
ATOM	6721	HE	ARG	704	-4.646	84.686	33.129	1.00	0.00	H
ATOM	6722	CZ	ARG	704	-4.174	84.594	35.143	1.00	0.00	C
ATOM	6723	NH1	ARG	704	-3.169	84.461	36.057	1.00	0.00	N
ATOM	6724	1HH1	ARG	704	-3.380	84.472	37.055	1.00	0.00	H
ATOM	6725	2HH1	ARG	704	-2.205	84.349	35.744	1.00	0.00	H
ATOM	6726	NH2	ARG	704	-5.464	84.744	35.561	1.00	0.00	N
ATOM	6727	1HH2	ARG	704	-5.675	84.755	36.559	1.00	0.00	H
ATOM	6728	2HH2	ARG	704	-6.215	84.843	34.878	1.00	0.00	H
ATOM	6729	C	ARG	704	-0.761	81.935	36.654	1.00	0.00	C
ATOM	6730	O	ARG	704	-1.282	82.393	37.665	1.00	0.00	O
ATOM	6731	N	SER	705	-0.075	80.772	36.635	1.00	0.00	N

ATOM	6732	HN	SER	705	0.347	80.453	35.763	1.00	0.00	H
ATOM	6733	CA	SER	705	0.070	79.979	37.818	1.00	0.00	C
ATOM	6734	CB	SER	705	1.056	78.805	37.665	1.00	0.00	C
ATOM	6735	OG	SER	705	0.551	77.828	36.768	1.00	0.00	O
ATOM	6736	HG	SER	705	1.159	77.104	36.674	1.00	0.00	H
ATOM	6737	C	SER	705	0.655	80.874	38.848	1.00	0.00	C
ATOM	6738	O	SER	705	0.201	80.872	39.984	1.00	0.00	O
ATOM	6739	N	MET	706	1.697	81.635	38.468	1.00	0.00	N
ATOM	6740	HN	MET	706	2.020	81.550	37.504	1.00	0.00	H
ATOM	6741	CA	MET	706	2.385	82.556	39.322	1.00	0.00	C
ATOM	6742	CB	MET	706	3.620	83.104	38.587	1.00	0.00	C
ATOM	6743	CG	MET	706	4.612	82.005	38.195	1.00	0.00	C
ATOM	6744	SD	MET	706	5.616	82.369	36.724	1.00	0.00	S
ATOM	6745	CE	MET	706	6.501	83.787	37.426	1.00	0.00	C
ATOM	6746	C	MET	706	1.542	83.744	39.715	1.00	0.00	C
ATOM	6747	O	MET	706	1.409	84.059	40.897	1.00	0.00	O
ATOM	6748	N	LEU	707	0.913	84.421	38.734	1.00	0.00	N
ATOM	6749	HN	LEU	707	0.958	84.074	37.776	1.00	0.00	H
ATOM	6750	CA	LEU	707	0.180	85.623	39.017	1.00	0.00	C
ATOM	6751	CB	LEU	707	-0.410	86.258	37.743	1.00	0.00	C
ATOM	6752	CG	LEU	707	-0.977	87.680	37.937	1.00	0.00	C
ATOM	6753	CD1	LEU	707	-2.195	87.704	38.873	1.00	0.00	C
ATOM	6754	CD2	LEU	707	0.130	88.657	38.366	1.00	0.00	C
ATOM	6755	C	LEU	707	-0.943	85.250	39.927	1.00	0.00	C
ATOM	6756	O	LEU	707	-1.224	85.955	40.897	1.00	0.00	O
ATOM	6757	N	ARG	708	-1.615	84.124	39.610	1.00	0.00	N
ATOM	6758	HN	ARG	708	-1.336	83.620	38.768	1.00	0.00	H
ATOM	6759	CA	ARG	708	-2.700	83.592	40.388	1.00	0.00	C
ATOM	6760	CB	ARG	708	-3.342	82.336	39.784	1.00	0.00	C
ATOM	6761	CG	ARG	708	-4.200	82.581	38.546	1.00	0.00	C
ATOM	6762	CD	ARG	708	-4.903	81.308	38.067	1.00	0.00	C
ATOM	6763	NE	ARG	708	-3.847	80.380	37.576	1.00	0.00	N
ATOM	6764	HE	ARG	708	-3.117	80.057	38.211	1.00	0.00	H
ATOM	6765	CZ	ARG	708	-3.854	79.961	36.278	1.00	0.00	C
ATOM	6766	NH1	ARG	708	-4.878	80.322	35.450	1.00	0.00	N
ATOM	6767	1HH1	ARG	708	-5.636	80.906	35.803	1.00	0.00	H
ATOM	6768	2HH1	ARG	708	-4.883	80.009	34.479	1.00	0.00	H
ATOM	6769	NH2	ARG	708	-2.840	79.180	35.806	1.00	0.00	N
ATOM	6770	1HH2	ARG	708	-2.075	78.910	36.425	1.00	0.00	H
ATOM	6771	2HH2	ARG	708	-2.845	78.867	34.835	1.00	0.00	H
ATOM	6772	C	ARG	708	-2.134	83.171	41.687	1.00	0.00	C
ATOM	6773	O	ARG	708	-2.708	83.413	42.747	1.00	0.00	O
ATOM	6774	N	GLN	709	-0.942	82.553	41.614	1.00	0.00	N
ATOM	6775	HN	GLN	709	-0.541	82.370	40.694	1.00	0.00	H
ATOM	6776	CA	GLN	709	-0.217	82.144	42.770	1.00	0.00	C
ATOM	6777	CB	GLN	709	1.177	81.562	42.437	1.00	0.00	C
ATOM	6778	CG	GLN	709	2.086	81.235	43.621	1.00	0.00	C
ATOM	6779	CD	GLN	709	1.632	79.943	44.275	1.00	0.00	C
ATOM	6780	OE1	GLN	709	2.219	78.882	44.066	1.00	0.00	O
ATOM	6781	NE2	GLN	709	0.562	80.042	45.106	1.00	0.00	N
ATOM	6782	1HE2	GLN	709	0.257	79.174	45.546	1.00	0.00	H
ATOM	6783	2HE2	GLN	709	0.075	80.922	45.279	1.00	0.00	H
ATOM	6784	C	GLN	709	0.000	83.423	43.492	1.00	0.00	C
ATOM	6785	O	GLN	709	-0.151	84.516	42.949	1.00	0.00	O
ATOM	6786	N	ASP	710	0.286	83.320	44.781	1.00	0.00	N
ATOM	6787	HN	ASP	710	0.364	82.400	45.215	1.00	0.00	H
ATOM	6788	CA	ASP	710	0.483	84.488	45.554	1.00	0.00	C
ATOM	6789	CB	ASP	710	-0.642	85.540	45.435	1.00	0.00	C
ATOM	6790	CG	ASP	710	-2.000	84.949	45.805	1.00	0.00	C
ATOM	6791	OD1	ASP	710	-2.088	83.722	46.074	1.00	0.00	O
ATOM	6792	OD2	ASP	710	-2.982	85.737	45.806	1.00	0.00	O
ATOM	6793	C	ASP	710	0.511	83.945	46.914	1.00	0.00	C
ATOM	6794	O	ASP	710	0.871	82.782	47.087	1.00	0.00	O
ATOM	6795	N	VAL	711	0.148	84.772	47.905	1.00	0.00	N
ATOM	6796	HN	VAL	711	-0.122	85.734	47.699	1.00	0.00	H
ATOM	6797	CA	VAL	711	0.142	84.297	49.244	1.00	0.00	C
ATOM	6798	CB	VAL	711	-0.495	82.936	49.428	1.00	0.00	C
ATOM	6799	CG1	VAL	711	-0.596	82.558	50.918	1.00	0.00	C
ATOM	6800	CG2	VAL	711	-1.846	82.967	48.701	1.00	0.00	C
ATOM	6801	C	VAL	711	1.591	84.307	49.583	1.00	0.00	C
ATOM	6802	O	VAL	711	2.353	85.028	48.941	1.00	0.00	O
ATOM	6803	N	SER	712	2.020	83.485	50.550	1.00	0.00	N
ATOM	6804	HN	SER	712	1.353	82.832	50.960	1.00	0.00	H
ATOM	6805	CA	SER	712	3.365	83.475	51.038	1.00	0.00	C

ATOM	6806	CB	SER	712	3.579	82.481	52.187	1.00	0.00	C
ATOM	6807	OG	SER	712	2.886	82.940	53.336	1.00	0.00	O
ATOM	6808	HG	SER	712	3.019	82.325	54.047	1.00	0.00	H
ATOM	6809	C	SER	712	4.340	83.130	49.959	1.00	0.00	C
ATOM	6810	O	SER	712	5.522	82.975	50.254	1.00	0.00	O
ATOM	6811	N	TRP	713	3.900	82.949	48.698	1.00	0.00	N
ATOM	6812	HN	TRP	713	2.906	83.004	48.476	1.00	0.00	H
ATOM	6813	CA	TRP	713	4.871	82.676	47.675	1.00	0.00	C
ATOM	6814	CB	TRP	713	4.206	82.541	46.292	1.00	0.00	C
ATOM	6815	CG	TRP	713	5.104	82.224	45.114	1.00	0.00	C
ATOM	6816	CD2	TRP	713	5.554	80.907	44.745	1.00	0.00	C
ATOM	6817	CD1	TRP	713	5.608	83.076	44.177	1.00	0.00	C
ATOM	6818	NE1	TRP	713	6.324	82.375	43.236	1.00	0.00	N
ATOM	6819	HE1	TRP	713	6.791	82.776	42.423	1.00	0.00	H
ATOM	6820	CE2	TRP	713	6.305	81.041	43.576	1.00	0.00	C
ATOM	6821	CE3	TRP	713	5.357	79.688	45.328	1.00	0.00	C
ATOM	6822	CZ2	TRP	713	6.865	79.953	42.965	1.00	0.00	C
ATOM	6823	CZ3	TRP	713	5.932	78.595	44.713	1.00	0.00	C
ATOM	6824	CH2	TRP	713	6.670	78.723	43.554	1.00	0.00	C
ATOM	6825	C	TRP	713	5.846	83.819	47.674	1.00	0.00	C
ATOM	6826	O	TRP	713	6.971	83.641	48.121	1.00	0.00	O
ATOM	6827	N	PHE	714	5.457	85.024	47.213	1.00	0.00	N
ATOM	6828	HN	PHE	714	4.537	85.113	46.782	1.00	0.00	H
ATOM	6829	CA	PHE	714	6.297	86.190	47.309	1.00	0.00	C
ATOM	6830	CB	PHE	714	5.887	87.360	46.404	1.00	0.00	C
ATOM	6831	CG	PHE	714	6.069	86.942	44.993	1.00	0.00	C
ATOM	6832	CD1	PHE	714	7.326	86.688	44.501	1.00	0.00	C
ATOM	6833	CD2	PHE	714	4.981	86.836	44.160	1.00	0.00	C
ATOM	6834	CE1	PHE	714	7.493	86.309	43.191	1.00	0.00	C
ATOM	6835	CE2	PHE	714	5.140	86.460	42.850	1.00	0.00	C
ATOM	6836	CZ	PHE	714	6.400	86.194	42.365	1.00	0.00	C
ATOM	6837	C	PHE	714	6.142	86.715	48.700	1.00	0.00	C
ATOM	6838	O	PHE	714	7.017	87.399	49.227	1.00	0.00	O
ATOM	6839	N	ASP	715	4.963	86.447	49.299	1.00	0.00	N
ATOM	6840	HN	ASP	715	4.294	85.857	48.804	1.00	0.00	H
ATOM	6841	CA	ASP	715	4.597	86.946	50.595	1.00	0.00	C
ATOM	6842	CB	ASP	715	3.186	86.549	51.061	1.00	0.00	C
ATOM	6843	CG	ASP	715	2.172	87.393	50.297	1.00	0.00	C
ATOM	6844	OD1	ASP	715	2.585	88.096	49.339	1.00	0.00	O
ATOM	6845	OD2	ASP	715	0.967	87.341	50.662	1.00	0.00	O
ATOM	6846	C	ASP	715	5.577	86.462	51.626	1.00	0.00	C
ATOM	6847	O	ASP	715	5.748	87.125	52.650	1.00	0.00	O
ATOM	6848	N	ASP	716	6.160	85.256	51.427	1.00	0.00	N
ATOM	6849	HN	ASP	716	5.826	84.684	50.651	1.00	0.00	H
ATOM	6850	CA	ASP	716	7.227	84.730	52.248	1.00	0.00	C
ATOM	6851	CB	ASP	716	6.718	83.918	53.456	1.00	0.00	C
ATOM	6852	CG	ASP	716	7.798	83.909	54.536	1.00	0.00	C
ATOM	6853	OD1	ASP	716	8.439	84.974	54.746	1.00	0.00	O
ATOM	6854	OD2	ASP	716	7.996	82.835	55.164	1.00	0.00	O
ATOM	6855	C	ASP	716	7.969	83.789	51.317	1.00	0.00	C
ATOM	6856	O	ASP	716	7.776	82.576	51.345	1.00	0.00	O
ATOM	6857	N	PRO	717	8.832	84.375	50.517	1.00	0.00	N
ATOM	6858	CA	PRO	717	9.434	83.776	49.342	1.00	0.00	C
ATOM	6859	CD	PRO	717	8.957	85.819	50.509	1.00	0.00	C
ATOM	6860	CB	PRO	717	9.677	84.937	48.379	1.00	0.00	C
ATOM	6861	CG	PRO	717	9.863	86.142	49.308	1.00	0.00	C
ATOM	6862	C	PRO	717	10.641	82.905	49.335	1.00	0.00	C
ATOM	6863	O	PRO	717	11.263	82.655	50.367	1.00	0.00	O
ATOM	6864	N	LYS	718	10.951	82.439	48.102	1.00	0.00	N
ATOM	6865	HN	LYS	718	10.310	82.661	47.340	1.00	0.00	H
ATOM	6866	CA	LYS	718	12.104	81.662	47.786	1.00	0.00	C
ATOM	6867	CB	LYS	718	11.945	80.255	48.357	1.00	0.00	C
ATOM	6868	CG	LYS	718	10.594	79.661	47.973	1.00	0.00	C
ATOM	6869	CD	LYS	718	10.321	78.323	48.642	1.00	0.00	C
ATOM	6870	CE	LYS	718	9.995	78.477	50.129	1.00	0.00	C
ATOM	6871	NZ	LYS	718	8.844	79.393	50.302	1.00	0.00	N
ATOM	6872	HZ1	LYS	718	8.627	79.496	51.293	1.00	0.00	H
ATOM	6873	HZ2	LYS	718	8.032	79.094	49.761	1.00	0.00	H
ATOM	6874	HZ3	LYS	718	9.000	80.294	49.849	1.00	0.00	H
ATOM	6875	C	LYS	718	12.177	81.577	46.290	1.00	0.00	C
ATOM	6876	O	LYS	718	12.793	80.664	45.745	1.00	0.00	O
ATOM	6877	N	ASN	719	11.553	82.531	45.565	1.00	0.00	N
ATOM	6878	HN	ASN	719	11.054	83.300	46.012	1.00	0.00	H
ATOM	6879	CA	ASN	719	11.625	82.413	44.140	1.00	0.00	C

ATOM	6880	CB	ASN	719	10.369	81.733	43.578	1.00	0.00	C
ATOM	6881	CG	ASN	719	10.310	80.340	44.188	1.00	0.00	C
ATOM	6882	OD1	ASN	719	11.005	79.426	43.748	1.00	0.00	O
ATOM	6883	ND2	ASN	719	9.464	80.175	45.240	1.00	0.00	N
ATOM	6884	1HD2	ASN	719	8.887	80.933	45.605	1.00	0.00	H
ATOM	6885	2HD2	ASN	719	9.424	79.241	45.649	1.00	0.00	H
ATOM	6886	C	ASN	719	11.698	83.780	43.551	1.00	0.00	C
ATOM	6887	O	ASN	719	10.674	84.391	43.253	1.00	0.00	O
ATOM	6888	N	THR	720	12.925	84.249	43.272	1.00	0.00	N
ATOM	6889	HN	THR	720	13.736	83.643	43.398	1.00	0.00	H
ATOM	6890	CA	THR	720	13.110	85.586	42.801	1.00	0.00	C
ATOM	6891	CB	THR	720	14.530	86.066	42.804	1.00	0.00	C
ATOM	6892	OG1	THR	720	15.352	85.217	42.018	1.00	0.00	O
ATOM	6893	HG1	THR	720	15.049	85.179	41.119	1.00	0.00	H
ATOM	6894	CG2	THR	720	15.019	86.127	44.254	1.00	0.00	C
ATOM	6895	C	THR	720	12.611	85.716	41.415	1.00	0.00	C
ATOM	6896	O	THR	720	12.287	84.740	40.738	1.00	0.00	O
ATOM	6897	N	THR	721	12.546	86.976	40.968	1.00	0.00	N
ATOM	6898	HN	THR	721	12.871	87.738	41.564	1.00	0.00	H
ATOM	6899	CA	THR	721	12.031	87.269	39.676	1.00	0.00	C
ATOM	6900	CB	THR	721	12.062	88.732	39.346	1.00	0.00	C
ATOM	6901	OG1	THR	721	11.275	89.457	40.278	1.00	0.00	O
ATOM	6902	HG1	THR	721	11.609	89.331	41.158	1.00	0.00	H
ATOM	6903	CG2	THR	721	11.521	88.936	37.921	1.00	0.00	C
ATOM	6904	C	THR	721	12.846	86.561	38.647	1.00	0.00	C
ATOM	6905	O	THR	721	12.298	85.932	37.743	1.00	0.00	O
ATOM	6906	N	GLY	722	14.183	86.606	38.774	1.00	0.00	N
ATOM	6907	HN	GLY	722	14.603	87.056	39.587	1.00	0.00	H
ATOM	6908	CA	GLY	722	15.021	86.021	37.765	1.00	0.00	C
ATOM	6909	C	GLY	722	14.717	84.569	37.683	1.00	0.00	C
ATOM	6910	O	GLY	722	14.631	84.007	36.591	1.00	0.00	O
ATOM	6911	N	ALA	723	14.515	83.934	38.849	1.00	0.00	N
ATOM	6912	HN	ALA	723	14.533	84.455	39.726	1.00	0.00	H
ATOM	6913	CA	ALA	723	14.275	82.527	38.857	1.00	0.00	C
ATOM	6914	CB	ALA	723	13.970	81.993	40.268	1.00	0.00	C
ATOM	6915	C	ALA	723	13.072	82.296	38.019	1.00	0.00	C
ATOM	6916	O	ALA	723	12.996	81.330	37.265	1.00	0.00	O
ATOM	6917	N	LEU	724	12.090	83.193	38.142	1.00	0.00	N
ATOM	6918	HN	LEU	724	12.203	83.976	38.786	1.00	0.00	H
ATOM	6919	CA	LEU	724	10.883	83.074	37.386	1.00	0.00	C
ATOM	6920	CB	LEU	724	9.787	83.992	37.930	1.00	0.00	C
ATOM	6921	CG	LEU	724	9.160	83.436	39.220	1.00	0.00	C
ATOM	6922	CD1	LEU	724	10.212	83.024	40.257	1.00	0.00	C
ATOM	6923	CD2	LEU	724	8.158	84.443	39.788	1.00	0.00	C
ATOM	6924	C	LEU	724	11.041	83.319	35.910	1.00	0.00	C
ATOM	6925	O	LEU	724	10.566	82.524	35.097	1.00	0.00	O
ATOM	6926	N	THR	725	11.736	84.403	35.509	1.00	0.00	N
ATOM	6927	HN	THR	725	12.206	84.999	36.190	1.00	0.00	H
ATOM	6928	CA	THR	725	11.802	84.703	34.105	1.00	0.00	C
ATOM	6929	CB	THR	725	12.604	85.934	33.789	1.00	0.00	C
ATOM	6930	OG1	THR	725	13.959	85.753	34.169	1.00	0.00	O
ATOM	6931	HG1	THR	725	14.466	86.531	33.969	1.00	0.00	H
ATOM	6932	CG2	THR	725	11.993	87.122	34.545	1.00	0.00	C
ATOM	6933	C	THR	725	12.463	83.558	33.419	1.00	0.00	C
ATOM	6934	O	THR	725	12.024	83.103	32.358	1.00	0.00	O
ATOM	6935	N	THR	726	13.528	83.035	34.049	1.00	0.00	N
ATOM	6936	HN	THR	726	13.813	83.385	34.964	1.00	0.00	H
ATOM	6937	CA	THR	726	14.255	81.979	33.415	1.00	0.00	C
ATOM	6938	CB	THR	726	15.380	81.438	34.246	1.00	0.00	C
ATOM	6939	OG1	THR	726	14.905	81.003	35.512	1.00	0.00	O
ATOM	6940	HG1	THR	726	15.618	80.660	36.038	1.00	0.00	H
ATOM	6941	CG2	THR	726	16.451	82.522	34.406	1.00	0.00	C
ATOM	6942	C	THR	726	13.341	80.844	33.174	1.00	0.00	C
ATOM	6943	O	THR	726	13.231	80.346	32.053	1.00	0.00	O
ATOM	6944	N	ARG	727	12.594	80.469	34.221	1.00	0.00	N
ATOM	6945	HN	ARG	727	12.613	81.002	35.091	1.00	0.00	H
ATOM	6946	CA	ARG	727	11.772	79.310	34.095	1.00	0.00	C
ATOM	6947	CB	ARG	727	10.968	79.014	35.370	1.00	0.00	C
ATOM	6948	CG	ARG	727	11.819	78.285	36.406	1.00	0.00	C
ATOM	6949	CD	ARG	727	11.739	76.766	36.246	1.00	0.00	C
ATOM	6950	NE	ARG	727	12.882	76.176	36.994	1.00	0.00	N
ATOM	6951	HE	ARG	727	12.803	75.978	37.991	1.00	0.00	H
ATOM	6952	CZ	ARG	727	14.039	75.904	36.322	1.00	0.00	C
ATOM	6953	NH1	ARG	727	14.104	76.088	34.973	1.00	0.00	N

ATOM	6954	1HH1	ARG	727	14.968	75.885	34.471	1.00	0.00	H
ATOM	6955	2HH1	ARG	727	13.280	76.424	34.474	1.00	0.00	H
ATOM	6956	NH2	ARG	727	15.138	75.456	36.988	1.00	0.00	N
ATOM	6957	1HH2	ARG	727	16.002	75.253	36.486	1.00	0.00	H
ATOM	6958	2HH2	ARG	727	15.089	75.318	37.997	1.00	0.00	H
ATOM	6959	C	ARG	727	10.823	79.456	32.955	1.00	0.00	C
ATOM	6960	O	ARG	727	10.696	78.530	32.158	1.00	0.00	O
ATOM	6961	N	LEU	728	10.190	80.630	32.786	1.00	0.00	N
ATOM	6962	HN	LEU	728	10.426	81.444	33.354	1.00	0.00	H
ATOM	6963	CA	LEU	728	9.172	80.696	31.779	1.00	0.00	C
ATOM	6964	CB	LEU	728	8.538	82.089	31.660	1.00	0.00	C
ATOM	6965	CG	LEU	728	7.888	82.581	32.965	1.00	0.00	C
ATOM	6966	CD1	LEU	728	7.067	83.853	32.717	1.00	0.00	C
ATOM	6967	CD2	LEU	728	7.091	81.469	33.664	1.00	0.00	C
ATOM	6968	C	LEU	728	9.700	80.347	30.413	1.00	0.00	C
ATOM	6969	O	LEU	728	9.244	79.384	29.797	1.00	0.00	O
ATOM	6970	N	ALA	729	10.728	81.059	29.927	1.00	0.00	N
ATOM	6971	HN	ALA	729	11.222	81.744	30.498	1.00	0.00	H
ATOM	6972	CA	ALA	729	11.098	80.808	28.561	1.00	0.00	C
ATOM	6973	CB	ALA	729	12.123	81.822	28.027	1.00	0.00	C
ATOM	6974	C	ALA	729	11.674	79.447	28.305	1.00	0.00	C
ATOM	6975	O	ALA	729	11.154	78.695	27.478	1.00	0.00	O
ATOM	6976	N	ASN	730	12.725	79.054	29.052	1.00	0.00	N
ATOM	6977	HN	ASN	730	13.026	79.572	29.877	1.00	0.00	H
ATOM	6978	CA	ASN	730	13.397	77.859	28.615	1.00	0.00	C
ATOM	6979	CB	ASN	730	14.712	77.553	29.368	1.00	0.00	C
ATOM	6980	CG	ASN	730	14.413	77.104	30.789	1.00	0.00	C
ATOM	6981	OD1	ASN	730	14.101	75.937	31.020	1.00	0.00	O
ATOM	6982	ND2	ASN	730	14.521	78.040	31.770	1.00	0.00	N
ATOM	6983	1HD2	ASN	730	14.320	77.739	32.724	1.00	0.00	H
ATOM	6984	2HD2	ASN	730	14.780	79.008	31.578	1.00	0.00	H
ATOM	6985	C	ASN	730	12.499	76.671	28.732	1.00	0.00	C
ATOM	6986	O	ASN	730	12.360	75.902	27.780	1.00	0.00	O
ATOM	6987	N	ASP	731	11.806	76.535	29.879	1.00	0.00	N
ATOM	6988	HN	ASP	731	11.789	77.284	30.571	1.00	0.00	H
ATOM	6989	CA	ASP	731	11.092	75.309	30.103	1.00	0.00	C
ATOM	6990	CB	ASP	731	10.767	74.966	31.584	1.00	0.00	C
ATOM	6991	CG	ASP	731	9.867	75.948	32.281	1.00	0.00	C
ATOM	6992	OD1	ASP	731	8.963	76.502	31.608	1.00	0.00	O
ATOM	6993	OD2	ASP	731	10.092	76.184	33.500	1.00	0.00	O
ATOM	6994	C	ASP	731	9.934	75.071	29.182	1.00	0.00	C
ATOM	6995	O	ASP	731	9.647	73.913	28.882	1.00	0.00	O
ATOM	6996	N	ALA	732	9.226	76.113	28.696	1.00	0.00	N
ATOM	6997	HN	ALA	732	9.445	77.077	28.949	1.00	0.00	H
ATOM	6998	CA	ALA	732	8.144	75.789	27.801	1.00	0.00	C
ATOM	6999	CB	ALA	732	7.405	77.030	27.280	1.00	0.00	C
ATOM	7000	C	ALA	732	8.719	75.075	26.608	1.00	0.00	C
ATOM	7001	O	ALA	732	8.209	74.045	26.168	1.00	0.00	O
ATOM	7002	N	ALA	733	9.859	75.556	26.093	1.00	0.00	N
ATOM	7003	HN	ALA	733	10.345	76.336	26.535	1.00	0.00	H
ATOM	7004	CA	ALA	733	10.379	74.943	24.899	1.00	0.00	C
ATOM	7005	CB	ALA	733	11.684	75.603	24.424	1.00	0.00	C
ATOM	7006	C	ALA	733	10.678	73.484	25.103	1.00	0.00	C
ATOM	7007	O	ALA	733	10.242	72.634	24.326	1.00	0.00	O
ATOM	7008	N	GLN	734	11.362	73.145	26.205	1.00	0.00	N
ATOM	7009	HN	GLN	734	11.543	73.857	26.912	1.00	0.00	H
ATOM	7010	CA	GLN	734	11.848	71.812	26.422	1.00	0.00	C
ATOM	7011	CB	GLN	734	12.470	71.706	27.819	1.00	0.00	C
ATOM	7012	CG	GLN	734	13.415	72.869	28.134	1.00	0.00	C
ATOM	7013	CD	GLN	734	14.819	72.511	27.701	1.00	0.00	C
ATOM	7014	OE1	GLN	734	15.420	71.568	28.214	1.00	0.00	O
ATOM	7015	NE2	GLN	734	15.365	73.294	26.735	1.00	0.00	N
ATOM	7016	1HE2	GLN	734	14.867	74.076	26.310	1.00	0.00	H
ATOM	7017	2HE2	GLN	734	16.312	73.053	26.443	1.00	0.00	H
ATOM	7018	C	GLN	734	10.701	70.842	26.415	1.00	0.00	C
ATOM	7019	O	GLN	734	10.751	69.800	25.755	1.00	0.00	O
ATOM	7020	N	VAL	735	9.608	71.190	27.118	1.00	0.00	N
ATOM	7021	HN	VAL	735	9.554	72.117	27.539	1.00	0.00	H
ATOM	7022	CA	VAL	735	8.513	70.270	27.283	1.00	0.00	C
ATOM	7023	CB	VAL	735	7.395	70.832	28.116	1.00	0.00	C
ATOM	7024	CG1	VAL	735	7.941	71.146	29.519	1.00	0.00	C
ATOM	7025	CG2	VAL	735	6.789	72.045	27.394	1.00	0.00	C
ATOM	7026	C	VAL	735	7.958	69.880	25.948	1.00	0.00	C
ATOM	7027	O	VAL	735	7.635	68.709	25.720	1.00	0.00	O

ATOM	7028	N	LYS	736	7.892	70.856	25.022	1.00	0.00	N
ATOM	7029	HN	LYS	736	8.219	71.790	25.271	1.00	0.00	H
ATOM	7030	CA	LYS	736	7.381	70.636	23.700	1.00	0.00	C
ATOM	7031	CB	LYS	736	7.695	71.862	22.825	1.00	0.00	C
ATOM	7032	CG	LYS	736	7.417	71.733	21.330	1.00	0.00	C
ATOM	7033	CD	LYS	736	8.370	70.818	20.562	1.00	0.00	C
ATOM	7034	CE	LYS	736	8.183	70.920	19.048	1.00	0.00	C
ATOM	7035	NZ	LYS	736	8.510	72.290	18.590	1.00	0.00	N
ATOM	7036	HZ1	LYS	736	8.385	72.358	17.580	1.00	0.00	H
ATOM	7037	HZ2	LYS	736	9.444	72.578	18.880	1.00	0.00	H
ATOM	7038	HZ3	LYS	736	7.974	72.999	19.090	1.00	0.00	H
ATOM	7039	C	LYS	736	8.128	69.451	23.165	1.00	0.00	C
ATOM	7040	O	LYS	736	7.578	68.585	22.481	1.00	0.00	O
ATOM	7041	N	GLY	737	9.411	69.360	23.545	1.00	0.00	N
ATOM	7042	HN	GLY	737	9.806	70.070	24.161	1.00	0.00	H
ATOM	7043	CA	GLY	737	10.234	68.274	23.094	1.00	0.00	C
ATOM	7044	C	GLY	737	9.720	66.941	23.571	1.00	0.00	C
ATOM	7045	O	GLY	737	9.711	65.968	22.816	1.00	0.00	O
ATOM	7046	N	ALA	738	9.261	66.851	24.834	1.00	0.00	N
ATOM	7047	HN	ALA	738	9.178	67.690	25.408	1.00	0.00	H
ATOM	7048	CA	ALA	738	8.887	65.566	25.375	1.00	0.00	C
ATOM	7049	CB	ALA	738	8.425	65.656	26.839	1.00	0.00	C
ATOM	7050	C	ALA	738	7.769	64.921	24.578	1.00	0.00	C
ATOM	7051	O	ALA	738	7.747	63.697	24.431	1.00	0.00	O
ATOM	7052	N	ILE	739	6.766	65.700	24.113	1.00	0.00	N
ATOM	7053	HN	ILE	739	6.790	66.704	24.290	1.00	0.00	H
ATOM	7054	CA	ILE	739	5.656	65.136	23.367	1.00	0.00	C
ATOM	7055	CB	ILE	739	4.458	66.040	23.303	1.00	0.00	C
ATOM	7056	CG1	ILE	739	3.255	65.255	22.753	1.00	0.00	C
ATOM	7057	CG2	ILE	739	4.825	67.288	22.483	1.00	0.00	C
ATOM	7058	CD1	ILE	739	1.916	65.969	22.924	1.00	0.00	C
ATOM	7059	C	ILE	739	5.963	64.707	21.941	1.00	0.00	C
ATOM	7060	O	ILE	739	5.607	63.605	21.515	1.00	0.00	O
ATOM	7061	N	GLY	740	6.653	65.561	21.154	1.00	0.00	N
ATOM	7062	HN	GLY	740	6.999	66.437	21.546	1.00	0.00	H
ATOM	7063	CA	GLY	740	6.908	65.253	19.765	1.00	0.00	C
ATOM	7064	C	GLY	740	7.639	63.948	19.708	1.00	0.00	C
ATOM	7065	O	GLY	740	7.541	63.205	18.728	1.00	0.00	O
ATOM	7066	N	SER	741	8.426	63.666	20.763	1.00	0.00	N
ATOM	7067	HN	SER	741	8.468	64.326	21.539	1.00	0.00	H
ATOM	7068	CA	SER	741	9.210	62.461	20.828	1.00	0.00	C
ATOM	7069	CB	SER	741	10.012	62.326	22.133	1.00	0.00	C
ATOM	7070	OG	SER	741	10.732	61.101	22.137	1.00	0.00	O
ATOM	7071	HG	SER	741	11.227	61.018	22.943	1.00	0.00	H
ATOM	7072	C	SER	741	8.322	61.257	20.752	1.00	0.00	C
ATOM	7073	O	SER	741	8.618	60.297	20.033	1.00	0.00	O
ATOM	7074	N	ARG	742	7.181	61.297	21.461	1.00	0.00	N
ATOM	7075	HN	ARG	742	6.914	62.146	21.960	1.00	0.00	H
ATOM	7076	CA	ARG	742	6.345	60.137	21.509	1.00	0.00	C
ATOM	7077	CB	ARG	742	5.079	60.361	22.357	1.00	0.00	C
ATOM	7078	CG	ARG	742	5.402	60.729	23.809	1.00	0.00	C
ATOM	7079	CD	ARG	742	5.984	59.576	24.634	1.00	0.00	C
ATOM	7080	NE	ARG	742	6.335	60.122	25.977	1.00	0.00	N
ATOM	7081	HE	ARG	742	6.431	61.129	26.105	1.00	0.00	H
ATOM	7082	CZ	ARG	742	6.529	59.283	27.036	1.00	0.00	C
ATOM	7083	NH1	ARG	742	6.409	57.933	26.873	1.00	0.00	N
ATOM	7084	1HH1	ARG	742	6.181	57.551	25.955	1.00	0.00	H
ATOM	7085	2HH1	ARG	742	6.554	57.306	27.664	1.00	0.00	H
ATOM	7086	NH2	ARG	742	6.834	59.794	28.264	1.00	0.00	N
ATOM	7087	1HH2	ARG	742	6.924	60.803	28.386	1.00	0.00	H
ATOM	7088	2HH2	ARG	742	6.979	59.167	29.055	1.00	0.00	H
ATOM	7089	C	ARG	742	5.936	59.818	20.081	1.00	0.00	C
ATOM	7090	O	ARG	742	5.772	58.662	19.690	1.00	0.00	O
ATOM	7091	N	LEU	743	5.777	60.861	19.250	1.00	0.00	N
ATOM	7092	HN	LEU	743	5.988	61.795	19.602	1.00	0.00	H
ATOM	7093	CA	LEU	743	5.323	60.732	17.884	1.00	0.00	C
ATOM	7094	CB	LEU	743	5.073	62.138	17.291	1.00	0.00	C
ATOM	7095	CG	LEU	743	4.301	62.241	15.956	1.00	0.00	C
ATOM	7096	CD1	LEU	743	4.152	63.716	15.551	1.00	0.00	C
ATOM	7097	CD2	LEU	743	4.909	61.413	14.812	1.00	0.00	C
ATOM	7098	C	LEU	743	6.277	59.976	16.973	1.00	0.00	C
ATOM	7099	O	LEU	743	5.883	59.056	16.251	1.00	0.00	O
ATOM	7100	N	ALA	744	7.570	60.332	16.993	1.00	0.00	N
ATOM	7101	HN	ALA	744	7.864	61.038	17.668	1.00	0.00	H



ATOM	7102	CA	ALA	744	8.568	59.774	16.114	1.00	0.00	C
ATOM	7103	CB	ALA	744	9.952	60.422	16.300	1.00	0.00	C
ATOM	7104	C	ALA	744	8.698	58.321	16.402	1.00	0.00	C
ATOM	7105	O	ALA	744	9.278	57.576	15.611	1.00	0.00	O
ATOM	7106	N	VAL	745	8.306	57.913	17.621	1.00	0.00	N
ATOM	7107	HN	VAL	745	7.916	58.571	18.296	1.00	0.00	H
ATOM	7108	CA	VAL	745	8.452	56.531	17.942	1.00	0.00	C
ATOM	7109	CB	VAL	745	8.306	56.206	19.409	1.00	0.00	C
ATOM	7110	CG1	VAL	745	6.834	56.146	19.844	1.00	0.00	C
ATOM	7111	CG2	VAL	745	9.077	54.905	19.655	1.00	0.00	C
ATOM	7112	C	VAL	745	7.529	55.678	17.127	1.00	0.00	C
ATOM	7113	O	VAL	745	7.967	54.748	16.447	1.00	0.00	O
ATOM	7114	N	ILE	746	6.229	56.022	17.101	1.00	0.00	N
ATOM	7115	HN	ILE	746	5.911	56.876	17.559	1.00	0.00	H
ATOM	7116	CA	ILE	746	5.296	55.170	16.420	1.00	0.00	C
ATOM	7117	CB	ILE	746	3.896	55.713	16.403	1.00	0.00	C
ATOM	7118	CG1	ILE	746	3.307	55.765	17.818	1.00	0.00	C
ATOM	7119	CG2	ILE	746	3.073	54.881	15.406	1.00	0.00	C
ATOM	7120	CD1	ILE	746	2.004	56.560	17.892	1.00	0.00	C
ATOM	7121	C	ILE	746	5.704	55.087	14.987	1.00	0.00	C
ATOM	7122	O	ILE	746	5.722	54.013	14.382	1.00	0.00	O
ATOM	7123	N	THR	747	6.095	56.240	14.428	1.00	0.00	N
ATOM	7124	HN	THR	747	6.207	57.076	15.002	1.00	0.00	H
ATOM	7125	CA	THR	747	6.354	56.293	13.023	1.00	0.00	C
ATOM	7126	CB	THR	747	6.690	57.685	12.559	1.00	0.00	C
ATOM	7127	OG1	THR	747	6.906	57.693	11.156	1.00	0.00	O
ATOM	7128	HG1	THR	747	6.137	57.375	10.699	1.00	0.00	H
ATOM	7129	CG2	THR	747	7.935	58.200	13.299	1.00	0.00	C
ATOM	7130	C	THR	747	7.433	55.369	12.551	1.00	0.00	C
ATOM	7131	O	THR	747	7.158	54.473	11.753	1.00	0.00	O
ATOM	7132	N	GLN	748	8.661	55.485	13.087	1.00	0.00	N
ATOM	7133	HN	GLN	748	8.815	56.098	13.887	1.00	0.00	H
ATOM	7134	CA	GLN	748	9.755	54.740	12.526	1.00	0.00	C
ATOM	7135	CB	GLN	748	11.078	54.926	13.279	1.00	0.00	C
ATOM	7136	CG	GLN	748	11.047	54.361	14.699	1.00	0.00	C
ATOM	7137	CD	GLN	748	12.493	54.232	15.153	1.00	0.00	C
ATOM	7138	OE1	GLN	748	12.796	54.296	16.344	1.00	0.00	O
ATOM	7139	NE2	GLN	748	13.412	54.032	14.171	1.00	0.00	N
ATOM	7140	1HE2	GLN	748	13.161	53.979	13.184	1.00	0.00	H
ATOM	7141	2HE2	GLN	748	14.382	53.945	14.475	1.00	0.00	H
ATOM	7142	C	GLN	748	9.420	53.291	12.631	1.00	0.00	C
ATOM	7143	O	GLN	748	9.666	52.507	11.712	1.00	0.00	O
ATOM	7144	N	ASN	749	8.752	52.940	13.742	1.00	0.00	N
ATOM	7145	HN	ASN	749	8.447	53.662	14.394	1.00	0.00	H
ATOM	7146	CA	ASN	749	8.462	51.569	14.024	1.00	0.00	C
ATOM	7147	CB	ASN	749	7.526	51.437	15.235	1.00	0.00	C
ATOM	7148	CG	ASN	749	7.061	49.992	15.350	1.00	0.00	C
ATOM	7149	OD1	ASN	749	7.777	49.055	15.000	1.00	0.00	O
ATOM	7150	ND2	ASN	749	5.804	49.812	15.838	1.00	0.00	N
ATOM	7151	1HD2	ASN	749	5.210	50.589	16.128	1.00	0.00	H
ATOM	7152	2HD2	ASN	749	5.492	48.844	15.915	1.00	0.00	H
ATOM	7153	C	ASN	749	7.760	50.910	12.886	1.00	0.00	C
ATOM	7154	O	ASN	749	8.279	49.970	12.285	1.00	0.00	O
ATOM	7155	N	ILE	750	6.583	51.422	12.505	1.00	0.00	N
ATOM	7156	HN	ILE	750	6.223	52.288	12.906	1.00	0.00	H
ATOM	7157	CA	ILE	750	5.853	50.696	11.507	1.00	0.00	C
ATOM	7158	CB	ILE	750	4.472	51.222	11.256	1.00	0.00	C
ATOM	7159	CG1	ILE	750	3.597	50.926	12.487	1.00	0.00	C
ATOM	7160	CG2	ILE	750	3.949	50.604	9.948	1.00	0.00	C
ATOM	7161	CD1	ILE	750	2.162	51.430	12.380	1.00	0.00	C
ATOM	7162	C	ILE	750	6.606	50.640	10.220	1.00	0.00	C
ATOM	7163	O	ILE	750	6.645	49.588	9.581	1.00	0.00	O
ATOM	7164	N	ALA	751	7.258	51.752	9.826	1.00	0.00	N
ATOM	7165	HN	ALA	751	7.312	52.561	10.444	1.00	0.00	H
ATOM	7166	CA	ALA	751	7.876	51.790	8.530	1.00	0.00	C
ATOM	7167	CB	ALA	751	8.851	52.958	8.408	1.00	0.00	C
ATOM	7168	C	ALA	751	8.831	50.669	8.357	1.00	0.00	C
ATOM	7169	O	ALA	751	8.595	49.736	7.589	1.00	0.00	O
ATOM	7170	N	ASN	752	9.889	50.692	9.175	1.00	0.00	N
ATOM	7171	HN	ASN	752	9.935	51.366	9.939	1.00	0.00	H
ATOM	7172	CA	ASN	752	10.949	49.767	8.968	1.00	0.00	C
ATOM	7173	CB	ASN	752	12.063	49.961	10.011	1.00	0.00	C
ATOM	7174	CG	ASN	752	13.161	48.932	9.789	1.00	0.00	C
ATOM	7175	OD1	ASN	752	14.193	49.235	9.200	1.00	0.00	O

ATOM	7176	ND2	ASN	752	12.954	47.683	10.286	1.00	0.00	N
ATOM	7177	1HD2	ASN	752	13.690	46.993	10.137	1.00	0.00	H
ATOM	7178	2HD2	ASN	752	12.096	47.431	10.776	1.00	0.00	H
ATOM	7179	C	ASN	752	10.439	48.383	9.125	1.00	0.00	C
ATOM	7180	O	ASN	752	10.484	47.585	8.188	1.00	0.00	O
ATOM	7181	N	LEU	753	9.926	48.059	10.324	1.00	0.00	N
ATOM	7182	HN	LEU	753	9.796	48.744	11.068	1.00	0.00	H
ATOM	7183	CA	LEU	753	9.576	46.684	10.478	1.00	0.00	C
ATOM	7184	CB	LEU	753	9.261	46.275	11.926	1.00	0.00	C
ATOM	7185	CG	LEU	753	8.878	44.785	12.046	1.00	0.00	C
ATOM	7186	CD1	LEU	753	10.017	43.865	11.576	1.00	0.00	C
ATOM	7187	CD2	LEU	753	8.384	44.448	13.461	1.00	0.00	C
ATOM	7188	C	LEU	753	8.399	46.293	9.663	1.00	0.00	C
ATOM	7189	O	LEU	753	8.551	45.542	8.705	1.00	0.00	O
ATOM	7190	N	GLY	754	7.236	46.924	9.923	1.00	0.00	N
ATOM	7191	HN	GLY	754	7.232	47.769	10.494	1.00	0.00	H
ATOM	7192	CA	GLY	754	6.003	46.408	9.397	1.00	0.00	C
ATOM	7193	C	GLY	754	6.058	46.292	7.911	1.00	0.00	C
ATOM	7194	O	GLY	754	5.720	45.250	7.348	1.00	0.00	O
ATOM	7195	N	THR	755	6.518	47.350	7.232	1.00	0.00	N
ATOM	7196	HN	THR	755	6.836	48.186	7.723	1.00	0.00	H
ATOM	7197	CA	THR	755	6.555	47.285	5.802	1.00	0.00	C
ATOM	7198	CB	THR	755	6.902	48.593	5.161	1.00	0.00	C
ATOM	7199	OG1	THR	755	5.997	49.601	5.589	1.00	0.00	O
ATOM	7200	HG1	THR	755	6.217	50.431	5.182	1.00	0.00	H
ATOM	7201	CG2	THR	755	6.791	48.420	3.636	1.00	0.00	C
ATOM	7202	C	THR	755	7.589	46.291	5.378	1.00	0.00	C
ATOM	7203	O	THR	755	7.385	45.516	4.444	1.00	0.00	O
ATOM	7204	N	GLY	756	8.742	46.288	6.068	1.00	0.00	N
ATOM	7205	HN	GLY	756	8.851	46.899	6.877	1.00	0.00	H
ATOM	7206	CA	GLY	756	9.818	45.430	5.671	1.00	0.00	C
ATOM	7207	C	GLY	756	9.399	44.005	5.801	1.00	0.00	C
ATOM	7208	O	GLY	756	9.730	43.182	4.953	1.00	0.00	O
ATOM	7209	N	ILE	757	8.664	43.675	6.877	1.00	0.00	N
ATOM	7210	HN	ILE	757	8.365	44.408	7.520	1.00	0.00	H
ATOM	7211	CA	ILE	757	8.291	42.317	7.142	1.00	0.00	C
ATOM	7212	CB	ILE	757	7.621	42.132	8.481	1.00	0.00	C
ATOM	7213	CG1	ILE	757	7.628	40.645	8.877	1.00	0.00	C
ATOM	7214	CG2	ILE	757	6.215	42.753	8.434	1.00	0.00	C
ATOM	7215	CD1	ILE	757	7.255	40.396	10.339	1.00	0.00	C
ATOM	7216	C	ILE	757	7.380	41.804	6.070	1.00	0.00	C
ATOM	7217	O	ILE	757	7.526	40.671	5.615	1.00	0.00	O
ATOM	7218	N	ILE	758	6.413	42.623	5.622	1.00	0.00	N
ATOM	7219	HN	ILE	758	6.336	43.577	5.974	1.00	0.00	H
ATOM	7220	CA	ILE	758	5.491	42.129	4.639	1.00	0.00	C
ATOM	7221	CB	ILE	758	4.508	43.174	4.198	1.00	0.00	C
ATOM	7222	CG1	ILE	758	3.694	43.681	5.397	1.00	0.00	C
ATOM	7223	CG2	ILE	758	3.650	42.566	3.077	1.00	0.00	C
ATOM	7224	CD1	ILE	758	2.908	42.580	6.103	1.00	0.00	C
ATOM	7225	C	ILE	758	6.291	41.772	3.431	1.00	0.00	C
ATOM	7226	O	ILE	758	6.190	40.674	2.885	1.00	0.00	O
ATOM	7227	N	ILE	759	7.166	42.698	3.026	1.00	0.00	N
ATOM	7228	HN	ILE	759	7.235	43.569	3.553	1.00	0.00	H
ATOM	7229	CA	ILE	759	8.009	42.520	1.886	1.00	0.00	C
ATOM	7230	CB	ILE	759	8.857	43.718	1.574	1.00	0.00	C
ATOM	7231	CG1	ILE	759	7.948	44.908	1.232	1.00	0.00	C
ATOM	7232	CG2	ILE	759	9.809	43.348	0.424	1.00	0.00	C
ATOM	7233	CD1	ILE	759	7.050	44.642	0.024	1.00	0.00	C
ATOM	7234	C	ILE	759	8.893	41.362	2.193	1.00	0.00	C
ATOM	7235	O	ILE	759	9.473	40.751	1.296	1.00	0.00	O
ATOM	7236	N	SER	760	9.104	41.115	3.498	1.00	0.00	N
ATOM	7237	HN	SER	760	8.676	41.722	4.198	1.00	0.00	H
ATOM	7238	CA	SER	760	9.917	40.017	3.924	1.00	0.00	C
ATOM	7239	CB	SER	760	10.153	39.943	5.445	1.00	0.00	C
ATOM	7240	OG	SER	760	10.882	41.076	5.893	1.00	0.00	O
ATOM	7241	HG	SER	760	11.027	41.030	6.831	1.00	0.00	H
ATOM	7242	C	SER	760	9.239	38.752	3.520	1.00	0.00	C
ATOM	7243	O	SER	760	9.900	37.761	3.215	1.00	0.00	O
ATOM	7244	N	PHE	761	7.893	38.747	3.511	1.00	0.00	N
ATOM	7245	HN	PHE	761	7.368	39.583	3.767	1.00	0.00	H
ATOM	7246	CA	PHE	761	7.213	37.543	3.134	1.00	0.00	C
ATOM	7247	CB	PHE	761	5.679	37.649	3.197	1.00	0.00	C
ATOM	7248	CG	PHE	761	5.269	37.536	4.624	1.00	0.00	C
ATOM	7249	CD1	PHE	761	5.039	36.290	5.160	1.00	0.00	C

ATOM	7250	CD2	PHE	761	5.118	38.645	5.426	1.00	0.00	C
ATOM	7251	CE1	PHE	761	4.660	36.143	6.472	1.00	0.00	C
ATOM	7252	CE2	PHE	761	4.737	38.504	6.741	1.00	0.00	C
ATOM	7253	CZ	PHE	761	4.507	37.254	7.266	1.00	0.00	C
ATOM	7254	C	PHE	761	7.586	37.215	1.727	1.00	0.00	C
ATOM	7255	O	PHE	761	8.021	36.103	1.430	1.00	0.00	O
ATOM	7256	N	ILE	762	7.494	38.210	0.831	1.00	0.00	N
ATOM	7257	HN	ILE	762	7.216	39.144	1.133	1.00	0.00	H
ATOM	7258	CA	ILE	762	7.786	37.961	-0.547	1.00	0.00	C
ATOM	7259	CB	ILE	762	7.532	39.120	-1.466	1.00	0.00	C
ATOM	7260	CG1	ILE	762	8.480	40.286	-1.215	1.00	0.00	C
ATOM	7261	CG2	ILE	762	6.056	39.519	-1.300	1.00	0.00	C
ATOM	7262	CD1	ILE	762	8.375	41.318	-2.330	1.00	0.00	C
ATOM	7263	C	ILE	762	9.213	37.529	-0.627	1.00	0.00	C
ATOM	7264	O	ILE	762	9.598	36.816	-1.553	1.00	0.00	O
ATOM	7265	N	TYR	763	10.062	38.007	0.309	1.00	0.00	N
ATOM	7266	HN	TYR	763	9.756	38.678	1.014	1.00	0.00	H
ATOM	7267	CA	TYR	763	11.417	37.527	0.267	1.00	0.00	C
ATOM	7268	CB	TYR	763	12.399	37.944	1.375	1.00	0.00	C
ATOM	7269	CG	TYR	763	12.631	39.410	1.476	1.00	0.00	C
ATOM	7270	CD1	TYR	763	12.862	40.191	0.370	1.00	0.00	C
ATOM	7271	CD2	TYR	763	12.589	40.006	2.711	1.00	0.00	C
ATOM	7272	CE1	TYR	763	13.066	41.546	0.510	1.00	0.00	C
ATOM	7273	CE2	TYR	763	12.792	41.354	2.861	1.00	0.00	C
ATOM	7274	CZ	TYR	763	13.032	42.128	1.755	1.00	0.00	C
ATOM	7275	OH	TYR	763	13.239	43.515	1.906	1.00	0.00	O
ATOM	7276	HH	TYR	763	13.405	44.051	1.140	1.00	0.00	H
ATOM	7277	C	TYR	763	11.356	36.037	0.393	1.00	0.00	C
ATOM	7278	O	TYR	763	10.470	35.503	1.062	1.00	0.00	O
ATOM	7279	N	GLY	764	12.298	35.328	-0.271	1.00	0.00	N
ATOM	7280	HN	GLY	764	13.045	35.816	-0.766	1.00	0.00	H
ATOM	7281	CA	GLY	764	12.252	33.892	-0.283	1.00	0.00	C
ATOM	7282	C	GLY	764	13.235	33.273	0.675	1.00	0.00	C
ATOM	7283	O	GLY	764	14.050	32.433	0.296	1.00	0.00	O
ATOM	7284	N	TRP	765	13.212	33.713	1.944	1.00	0.00	N
ATOM	7285	HN	TRP	765	12.726	34.587	2.147	1.00	0.00	H
ATOM	7286	CA	TRP	765	13.841	33.009	3.032	1.00	0.00	C
ATOM	7287	CB	TRP	765	13.266	31.588	3.164	1.00	0.00	C
ATOM	7288	CG	TRP	765	11.759	31.557	3.232	1.00	0.00	C
ATOM	7289	CD2	TRP	765	10.974	31.406	4.426	1.00	0.00	C
ATOM	7290	CD1	TRP	765	10.874	31.657	2.198	1.00	0.00	C
ATOM	7291	NE1	TRP	765	9.587	31.591	2.672	1.00	0.00	N
ATOM	7292	HE1	TRP	765	8.739	31.648	2.107	1.00	0.00	H
ATOM	7293	CE2	TRP	765	9.635	31.435	4.041	1.00	0.00	C
ATOM	7294	CE3	TRP	765	11.341	31.260	5.732	1.00	0.00	C
ATOM	7295	CZ2	TRP	765	8.633	31.317	4.962	1.00	0.00	C
ATOM	7296	CZ3	TRP	765	10.328	31.139	6.659	1.00	0.00	C
ATOM	7297	CH2	TRP	765	9.002	31.169	6.281	1.00	0.00	C
ATOM	7298	C	TRP	765	15.326	32.831	2.858	1.00	0.00	C
ATOM	7299	O	TRP	765	15.904	31.975	3.526	1.00	0.00	O
ATOM	7300	N	GLN	766	15.977	33.465	1.868	1.00	0.00	N
ATOM	7301	HN	GLN	766	15.469	34.011	1.172	1.00	0.00	H
ATOM	7302	CA	GLN	766	17.412	33.352	1.818	1.00	0.00	C
ATOM	7303	CB	GLN	766	17.909	33.178	0.379	1.00	0.00	C
ATOM	7304	CG	GLN	766	17.369	31.882	-0.218	1.00	0.00	C
ATOM	7305	CD	GLN	766	17.727	30.792	0.779	1.00	0.00	C
ATOM	7306	OE1	GLN	766	18.877	30.364	0.862	1.00	0.00	O
ATOM	7307	NE2	GLN	766	16.720	30.348	1.576	1.00	0.00	N
ATOM	7308	1HE2	GLN	766	16.960	29.617	2.245	1.00	0.00	H
ATOM	7309	2HE2	GLN	766	15.766	30.703	1.507	1.00	0.00	H
ATOM	7310	C	GLN	766	18.144	34.519	2.423	1.00	0.00	C
ATOM	7311	O	GLN	766	19.239	34.384	2.967	1.00	0.00	O
ATOM	7312	N	LEU	767	17.655	35.724	2.079	1.00	0.00	N
ATOM	7313	HN	LEU	767	16.842	35.729	1.463	1.00	0.00	H
ATOM	7314	CA	LEU	767	18.158	37.000	2.488	1.00	0.00	C
ATOM	7315	CB	LEU	767	18.080	38.048	1.372	1.00	0.00	C
ATOM	7316	CG	LEU	767	19.062	37.749	0.223	1.00	0.00	C
ATOM	7317	CD1	LEU	767	20.520	37.880	0.696	1.00	0.00	C
ATOM	7318	CD2	LEU	767	18.775	36.387	-0.429	1.00	0.00	C
ATOM	7319	C	LEU	767	17.502	37.551	3.697	1.00	0.00	C
ATOM	7320	O	LEU	767	18.166	38.197	4.489	1.00	0.00	O
ATOM	7321	N	THR	768	16.180	37.331	3.859	1.00	0.00	N
ATOM	7322	HN	THR	768	15.695	36.715	3.207	1.00	0.00	H
ATOM	7323	CA	THR	768	15.438	37.944	4.930	1.00	0.00	C

ATOM	7324	CB	THR	768	14.085	37.336	5.112	1.00	0.00	C
ATOM	7325	OG1	THR	768	13.375	37.344	3.891	1.00	0.00	O
ATOM	7326	HG1	THR	768	13.847	36.834	3.244	1.00	0.00	H
ATOM	7327	CG2	THR	768	13.321	38.161	6.159	1.00	0.00	C
ATOM	7328	C	THR	768	16.152	37.583	6.177	1.00	0.00	C
ATOM	7329	O	THR	768	16.521	38.439	6.980	1.00	0.00	O
ATOM	7330	N	LEU	769	16.400	36.276	6.317	1.00	0.00	N
ATOM	7331	HN	LEU	769	16.038	35.623	5.622	1.00	0.00	H
ATOM	7332	CA	LEU	769	17.158	35.776	7.413	1.00	0.00	C
ATOM	7333	CB	LEU	769	17.213	34.248	7.495	1.00	0.00	C
ATOM	7334	CG	LEU	769	18.104	33.779	8.657	1.00	0.00	C
ATOM	7335	CD1	LEU	769	17.550	34.257	10.009	1.00	0.00	C
ATOM	7336	CD2	LEU	769	18.340	32.260	8.609	1.00	0.00	C
ATOM	7337	C	LEU	769	18.565	36.232	7.250	1.00	0.00	C
ATOM	7338	O	LEU	769	19.247	36.562	8.214	1.00	0.00	O
ATOM	7339	N	LEU	770	19.027	36.292	5.995	1.00	0.00	N
ATOM	7340	HN	LEU	770	18.382	36.126	5.222	1.00	0.00	H
ATOM	7341	CA	LEU	770	20.396	36.581	5.706	1.00	0.00	C
ATOM	7342	CB	LEU	770	20.617	36.722	4.188	1.00	0.00	C
ATOM	7343	CG	LEU	770	22.081	36.652	3.720	1.00	0.00	C
ATOM	7344	CD1	LEU	770	22.960	37.751	4.325	1.00	0.00	C
ATOM	7345	CD2	LEU	770	22.644	35.245	3.941	1.00	0.00	C
ATOM	7346	C	LEU	770	20.774	37.890	6.360	1.00	0.00	C
ATOM	7347	O	LEU	770	21.835	37.984	6.970	1.00	0.00	O
ATOM	7348	N	LEU	771	19.945	38.940	6.180	1.00	0.00	N
ATOM	7349	HN	LEU	771	19.108	38.738	5.633	1.00	0.00	H
ATOM	7350	CA	LEU	771	20.056	40.299	6.639	1.00	0.00	C
ATOM	7351	CB	LEU	771	19.210	41.221	5.731	1.00	0.00	C
ATOM	7352	CG	LEU	771	19.184	42.733	6.039	1.00	0.00	C
ATOM	7353	CD1	LEU	771	18.506	43.478	4.882	1.00	0.00	C
ATOM	7354	CD2	LEU	771	18.475	43.079	7.360	1.00	0.00	C
ATOM	7355	C	LEU	771	19.670	40.509	8.064	1.00	0.00	C
ATOM	7356	O	LEU	771	20.372	41.196	8.794	1.00	0.00	O
ATOM	7357	N	LEU	772	18.558	39.915	8.513	1.00	0.00	N
ATOM	7358	HN	LEU	772	18.078	39.254	7.902	1.00	0.00	H
ATOM	7359	CA	LEU	772	18.011	40.166	9.816	1.00	0.00	C
ATOM	7360	CB	LEU	772	16.829	39.204	10.049	1.00	0.00	C
ATOM	7361	CG	LEU	772	16.147	39.193	11.430	1.00	0.00	C
ATOM	7362	CD1	LEU	772	14.903	38.303	11.366	1.00	0.00	C
ATOM	7363	CD2	LEU	772	17.059	38.713	12.572	1.00	0.00	C
ATOM	7364	C	LEU	772	19.083	39.861	10.795	1.00	0.00	C
ATOM	7365	O	LEU	772	19.159	40.471	11.854	1.00	0.00	O
ATOM	7366	N	ALA	773	19.925	38.867	10.510	1.00	0.00	N
ATOM	7367	HN	ALA	773	19.836	38.317	9.656	1.00	0.00	H
ATOM	7368	CA	ALA	773	20.958	38.613	11.464	1.00	0.00	C
ATOM	7369	CB	ALA	773	21.832	37.410	11.077	1.00	0.00	C
ATOM	7370	C	ALA	773	21.867	39.806	11.525	1.00	0.00	C
ATOM	7371	O	ALA	773	22.231	40.282	12.599	1.00	0.00	O
ATOM	7372	N	ILE	774	22.237	40.322	10.341	1.00	0.00	N
ATOM	7373	HN	ILE	774	21.826	39.907	9.505	1.00	0.00	H
ATOM	7374	CA	ILE	774	23.158	41.404	10.147	1.00	0.00	C
ATOM	7375	CB	ILE	774	23.455	41.612	8.696	1.00	0.00	C
ATOM	7376	CG1	ILE	774	24.044	40.321	8.112	1.00	0.00	C
ATOM	7377	CG2	ILE	774	24.388	42.826	8.559	1.00	0.00	C
ATOM	7378	CD1	ILE	774	24.054	40.298	6.588	1.00	0.00	C
ATOM	7379	C	ILE	774	22.668	42.715	10.705	1.00	0.00	C
ATOM	7380	O	ILE	774	23.408	43.389	11.416	1.00	0.00	O
ATOM	7381	N	VAL	775	21.419	43.139	10.424	1.00	0.00	N
ATOM	7382	HN	VAL	775	20.769	42.566	9.886	1.00	0.00	H
ATOM	7383	CA	VAL	775	21.047	44.439	10.919	1.00	0.00	C
ATOM	7384	CB	VAL	775	19.711	44.921	10.424	1.00	0.00	C
ATOM	7385	CG1	VAL	775	19.311	46.182	11.208	1.00	0.00	C
ATOM	7386	CG2	VAL	775	19.837	45.173	8.913	1.00	0.00	C
ATOM	7387	C	VAL	775	21.084	44.438	12.412	1.00	0.00	C
ATOM	7388	O	VAL	775	21.698	45.331	12.991	1.00	0.00	O
ATOM	7389	N	PRO	776	20.503	43.487	13.086	1.00	0.00	N
ATOM	7390	CA	PRO	776	20.655	43.541	14.505	1.00	0.00	C
ATOM	7391	CD	PRO	776	19.140	43.104	12.761	1.00	0.00	C
ATOM	7392	CB	PRO	776	19.690	42.503	15.064	1.00	0.00	C
ATOM	7393	CG	PRO	776	18.508	42.616	14.079	1.00	0.00	C
ATOM	7394	C	PRO	776	22.068	43.504	14.990	1.00	0.00	C
ATOM	7395	O	PRO	776	22.347	44.198	15.961	1.00	0.00	O
ATOM	7396	N	ILE	777	22.983	42.749	14.358	1.00	0.00	N
ATOM	7397	HN	ILE	777	22.722	42.183	13.551	1.00	0.00	H

ATOM	7398	CA	ILE	777	24.337	42.755	14.842	1.00	0.00	C
ATOM	7399	CB	ILE	777	25.221	41.724	14.197	1.00	0.00	C
ATOM	7400	CG1	ILE	777	25.362	41.985	12.696	1.00	0.00	C
ATOM	7401	CG2	ILE	777	24.655	40.337	14.528	1.00	0.00	C
ATOM	7402	CD1	ILE	777	26.361	41.067	12.002	1.00	0.00	C
ATOM	7403	C	ILE	777	24.950	44.103	14.600	1.00	0.00	C
ATOM	7404	O	ILE	777	25.615	44.653	15.473	1.00	0.00	O
ATOM	7405	N	ILE	778	24.743	44.676	13.399	1.00	0.00	N
ATOM	7406	HN	ILE	778	24.156	44.203	12.712	1.00	0.00	H
ATOM	7407	CA	ILE	778	25.335	45.940	13.070	1.00	0.00	C
ATOM	7408	CB	ILE	778	24.967	46.408	11.695	1.00	0.00	C
ATOM	7409	CG1	ILE	778	25.206	45.320	10.647	1.00	0.00	C
ATOM	7410	CG2	ILE	778	25.782	47.678	11.408	1.00	0.00	C
ATOM	7411	CD1	ILE	778	24.571	45.671	9.301	1.00	0.00	C
ATOM	7412	C	ILE	778	24.745	46.966	13.986	1.00	0.00	C
ATOM	7413	O	ILE	778	25.454	47.800	14.546	1.00	0.00	O
ATOM	7414	N	ALA	779	23.409	46.928	14.155	1.00	0.00	N
ATOM	7415	HN	ALA	779	22.872	46.194	13.693	1.00	0.00	H
ATOM	7416	CA	ALA	779	22.720	47.892	14.967	1.00	0.00	C
ATOM	7417	CB	ALA	779	21.200	47.663	15.003	1.00	0.00	C
ATOM	7418	C	ALA	779	23.223	47.746	16.364	1.00	0.00	C
ATOM	7419	O	ALA	779	23.522	48.731	17.040	1.00	0.00	O
ATOM	7420	N	ILE	780	23.375	46.489	16.816	1.00	0.00	N
ATOM	7421	HN	ILE	780	23.158	45.700	16.207	1.00	0.00	H
ATOM	7422	CA	ILE	780	23.840	46.255	18.146	1.00	0.00	C
ATOM	7423	CB	ILE	780	23.927	44.807	18.542	1.00	0.00	C
ATOM	7424	CG1	ILE	780	22.518	44.203	18.686	1.00	0.00	C
ATOM	7425	CG2	ILE	780	24.753	44.721	19.837	1.00	0.00	C
ATOM	7426	CD1	ILE	780	21.644	44.918	19.718	1.00	0.00	C
ATOM	7427	C	ILE	780	25.189	46.874	18.250	1.00	0.00	C
ATOM	7428	O	ILE	780	25.566	47.354	19.314	1.00	0.00	O
ATOM	7429	N	ALA	781	25.961	46.866	17.148	1.00	0.00	N
ATOM	7430	HN	ALA	781	25.608	46.453	16.285	1.00	0.00	H
ATOM	7431	CA	ALA	781	27.276	47.434	17.180	1.00	0.00	C
ATOM	7432	CB	ALA	781	27.984	47.373	15.815	1.00	0.00	C
ATOM	7433	C	ALA	781	27.160	48.876	17.555	1.00	0.00	C
ATOM	7434	O	ALA	781	27.878	49.326	18.445	1.00	0.00	O
ATOM	7435	N	GLY	782	26.200	49.616	16.956	1.00	0.00	N
ATOM	7436	HN	GLY	782	25.542	49.164	16.321	1.00	0.00	H
ATOM	7437	CA	GLY	782	26.091	51.033	17.200	1.00	0.00	C
ATOM	7438	C	GLY	782	25.957	51.237	18.678	1.00	0.00	C
ATOM	7439	O	GLY	782	26.612	52.107	19.254	1.00	0.00	O
ATOM	7440	N	VAL	783	25.109	50.421	19.327	1.00	0.00	N
ATOM	7441	HN	VAL	783	24.590	49.725	18.791	1.00	0.00	H
ATOM	7442	CA	VAL	783	24.907	50.493	20.748	1.00	0.00	C
ATOM	7443	CB	VAL	783	23.848	49.534	21.211	1.00	0.00	C
ATOM	7444	CG1	VAL	783	23.846	49.511	22.748	1.00	0.00	C
ATOM	7445	CG2	VAL	783	22.500	49.930	20.586	1.00	0.00	C
ATOM	7446	C	VAL	783	26.159	50.101	21.506	1.00	0.00	C
ATOM	7447	O	VAL	783	26.645	50.857	22.344	1.00	0.00	O
ATOM	7448	N	VAL	784	26.739	48.917	21.200	1.00	0.00	N
ATOM	7449	HN	VAL	784	26.378	48.398	20.399	1.00	0.00	H
ATOM	7450	CA	VAL	784	27.841	48.345	21.943	1.00	0.00	C
ATOM	7451	CB	VAL	784	28.226	46.976	21.458	1.00	0.00	C
ATOM	7452	CG1	VAL	784	28.716	47.090	20.005	1.00	0.00	C
ATOM	7453	CG2	VAL	784	29.274	46.391	22.419	1.00	0.00	C
ATOM	7454	C	VAL	784	29.057	49.212	21.862	1.00	0.00	C
ATOM	7455	O	VAL	784	29.773	49.374	22.850	1.00	0.00	O
ATOM	7456	N	GLU	785	29.338	49.779	20.675	1.00	0.00	N
ATOM	7457	HN	GLU	785	28.731	49.604	19.875	1.00	0.00	H
ATOM	7458	CA	GLU	785	30.483	50.627	20.525	1.00	0.00	C
ATOM	7459	CB	GLU	785	30.576	51.234	19.123	1.00	0.00	C
ATOM	7460	CG	GLU	785	31.696	52.261	19.003	1.00	0.00	C
ATOM	7461	CD	GLU	785	31.328	53.190	17.860	1.00	0.00	C
ATOM	7462	OE1	GLU	785	31.268	52.714	16.696	1.00	0.00	O
ATOM	7463	OE2	GLU	785	31.087	54.393	18.147	1.00	0.00	O
ATOM	7464	C	GLU	785	30.285	51.783	21.442	1.00	0.00	C
ATOM	7465	O	GLU	785	31.183	52.174	22.185	1.00	0.00	O
ATOM	7466	N	MET	786	29.056	52.322	21.440	1.00	0.00	N
ATOM	7467	HN	MET	786	28.339	51.905	20.847	1.00	0.00	H
ATOM	7468	CA	MET	786	28.713	53.459	22.237	1.00	0.00	C
ATOM	7469	CB	MET	786	27.199	53.685	22.267	1.00	0.00	C
ATOM	7470	CG	MET	786	26.779	54.572	23.437	1.00	0.00	C
ATOM	7471	SD	MET	786	25.117	54.216	24.075	1.00	0.00	S

ATOM	7472	CE	MET	786	25.635	52.702	24.937	1.00	0.00	C
ATOM	7473	C	MET	786	29.012	53.115	23.660	1.00	0.00	C
ATOM	7474	O	MET	786	29.637	53.897	24.373	1.00	0.00	O
ATOM	7475	N	LYS	787	28.582	51.914	24.093	1.00	0.00	N
ATOM	7476	HN	LYS	787	28.171	51.269	23.418	1.00	0.00	H
ATOM	7477	CA	LYS	787	28.678	51.503	25.467	1.00	0.00	C
ATOM	7478	CB	LYS	787	28.119	50.074	25.668	1.00	0.00	C
ATOM	7479	CG	LYS	787	28.189	49.501	27.094	1.00	0.00	C
ATOM	7480	CD	LYS	787	29.591	49.085	27.571	1.00	0.00	C
ATOM	7481	CE	LYS	787	29.853	47.573	27.519	1.00	0.00	C
ATOM	7482	NZ	LYS	787	29.373	46.920	28.758	1.00	0.00	N
ATOM	7483	HZ1	LYS	787	29.547	45.916	28.723	1.00	0.00	H
ATOM	7484	HZ2	LYS	787	28.391	47.129	28.941	1.00	0.00	H
ATOM	7485	HZ3	LYS	787	29.777	47.346	29.592	1.00	0.00	H
ATOM	7486	C	LYS	787	30.106	51.485	25.942	1.00	0.00	C
ATOM	7487	O	LYS	787	30.424	52.131	26.938	1.00	0.00	O
ATOM	7488	N	MET	788	31.020	50.779	25.241	1.00	0.00	N
ATOM	7489	HN	MET	788	30.756	50.321	24.369	1.00	0.00	H
ATOM	7490	CA	MET	788	32.372	50.677	25.734	1.00	0.00	C
ATOM	7491	CB	MET	788	33.244	49.613	25.040	1.00	0.00	C
ATOM	7492	CG	MET	788	34.495	49.295	25.868	1.00	0.00	C
ATOM	7493	SD	MET	788	35.306	47.704	25.520	1.00	0.00	S
ATOM	7494	CE	MET	788	36.035	48.188	23.930	1.00	0.00	C
ATOM	7495	C	MET	788	33.033	52.013	25.656	1.00	0.00	C
ATOM	7496	O	MET	788	33.877	52.353	26.484	1.00	0.00	O
ATOM	7497	N	LEU	789	32.650	52.802	24.636	1.00	0.00	N
ATOM	7498	HN	LEU	789	31.961	52.434	23.980	1.00	0.00	H
ATOM	7499	CA	LEU	789	33.149	54.128	24.412	1.00	0.00	C
ATOM	7500	CB	LEU	789	32.458	54.763	23.184	1.00	0.00	C
ATOM	7501	CG	LEU	789	32.864	56.198	22.771	1.00	0.00	C
ATOM	7502	CD1	LEU	789	32.100	56.612	21.503	1.00	0.00	C
ATOM	7503	CD2	LEU	789	32.676	57.238	23.889	1.00	0.00	C
ATOM	7504	C	LEU	789	32.790	54.894	25.647	1.00	0.00	C
ATOM	7505	O	LEU	789	33.565	55.731	26.105	1.00	0.00	O
ATOM	7506	N	SER	790	31.592	54.629	26.208	1.00	0.00	N
ATOM	7507	HN	SER	790	31.003	53.917	25.777	1.00	0.00	H
ATOM	7508	CA	SER	790	31.104	55.299	27.382	1.00	0.00	C
ATOM	7509	CB	SER	790	29.678	54.853	27.761	1.00	0.00	C
ATOM	7510	OG	SER	790	28.766	55.168	26.720	1.00	0.00	O
ATOM	7511	HG	SER	790	27.887	54.893	26.954	1.00	0.00	H
ATOM	7512	C	SER	790	31.976	54.971	28.552	1.00	0.00	C
ATOM	7513	O	SER	790	32.388	55.861	29.294	1.00	0.00	O
ATOM	7514	N	GLY	791	32.309	53.678	28.735	1.00	0.00	N
ATOM	7515	HN	GLY	791	32.043	52.976	28.045	1.00	0.00	H
ATOM	7516	CA	GLY	791	33.039	53.299	29.907	1.00	0.00	C
ATOM	7517	C	GLY	791	34.343	54.021	29.932	1.00	0.00	C
ATOM	7518	O	GLY	791	34.723	54.586	30.955	1.00	0.00	O
ATOM	7519	N	GLN	792	35.071	54.026	28.803	1.00	0.00	N
ATOM	7520	HN	GLN	792	34.726	53.566	27.960	1.00	0.00	H
ATOM	7521	CA	GLN	792	36.340	54.688	28.804	1.00	0.00	C
ATOM	7522	CB	GLN	792	37.189	54.392	27.557	1.00	0.00	C
ATOM	7523	CG	GLN	792	37.658	52.934	27.487	1.00	0.00	C
ATOM	7524	CD	GLN	792	38.589	52.667	28.664	1.00	0.00	C
ATOM	7525	OE1	GLN	792	38.518	51.617	29.301	1.00	0.00	O
ATOM	7526	NE2	GLN	792	39.492	53.639	28.963	1.00	0.00	N
ATOM	7527	1HE2	GLN	792	40.115	53.460	29.751	1.00	0.00	H
ATOM	7528	2HE2	GLN	792	39.551	54.510	28.435	1.00	0.00	H
ATOM	7529	C	GLN	792	36.151	56.174	28.931	1.00	0.00	C
ATOM	7530	O	GLN	792	36.882	56.814	29.680	1.00	0.00	O
ATOM	7531	N	ALA	793	35.156	56.769	28.233	1.00	0.00	N
ATOM	7532	HN	ALA	793	34.522	56.188	27.684	1.00	0.00	H
ATOM	7533	CA	ALA	793	34.963	58.204	28.241	1.00	0.00	C
ATOM	7534	CB	ALA	793	33.781	58.642	27.360	1.00	0.00	C
ATOM	7535	C	ALA	793	34.663	58.637	29.646	1.00	0.00	C
ATOM	7536	O	ALA	793	35.184	59.648	30.109	1.00	0.00	O
ATOM	7537	N	LEU	794	33.807	57.874	30.355	1.00	0.00	N
ATOM	7538	HN	LEU	794	33.440	57.033	29.909	1.00	0.00	H
ATOM	7539	CA	LEU	794	33.376	58.164	31.697	1.00	0.00	C
ATOM	7540	CB	LEU	794	32.360	57.105	32.167	1.00	0.00	C
ATOM	7541	CG	LEU	794	31.844	57.268	33.606	1.00	0.00	C
ATOM	7542	CD1	LEU	794	30.996	58.541	33.756	1.00	0.00	C
ATOM	7543	CD2	LEU	794	31.118	55.997	34.079	1.00	0.00	C
ATOM	7544	C	LEU	794	34.528	58.093	32.645	1.00	0.00	C
ATOM	7545	O	LEU	794	34.766	59.016	33.421	1.00	0.00	O

ATOM	7546	N	LYS	795	35.295	56.992	32.584	1.00	0.00	N
ATOM	7547	HN	LYS	795	35.121	56.290	31.865	1.00	0.00	H
ATOM	7548	CA	LYS	795	36.353	56.802	33.523	1.00	0.00	C
ATOM	7549	CB	LYS	795	36.934	55.374	33.472	1.00	0.00	C
ATOM	7550	CG	LYS	795	37.609	54.964	32.166	1.00	0.00	C
ATOM	7551	CD	LYS	795	39.093	55.315	32.099	1.00	0.00	C
ATOM	7552	CE	LYS	795	39.941	54.363	32.948	1.00	0.00	C
ATOM	7553	NZ	LYS	795	41.369	54.500	32.596	1.00	0.00	N
ATOM	7554	HZ1	LYS	795	41.934	53.866	33.161	1.00	0.00	H
ATOM	7555	HZ2	LYS	795	41.689	55.466	32.672	1.00	0.00	H
ATOM	7556	HZ3	LYS	795	41.530	54.366	31.598	1.00	0.00	H
ATOM	7557	C	LYS	795	37.394	57.862	33.321	1.00	0.00	C
ATOM	7558	O	LYS	795	37.939	58.371	34.296	1.00	0.00	O
ATOM	7559	N	ASP	796	37.693	58.235	32.058	1.00	0.00	N
ATOM	7560	HN	ASP	796	37.209	57.793	31.276	1.00	0.00	H
ATOM	7561	CA	ASP	796	38.685	59.248	31.797	1.00	0.00	C
ATOM	7562	CB	ASP	796	39.062	59.371	30.315	1.00	0.00	C
ATOM	7563	CG	ASP	796	40.503	59.865	30.279	1.00	0.00	C
ATOM	7564	OD1	ASP	796	41.340	59.278	31.016	1.00	0.00	O
ATOM	7565	OD2	ASP	796	40.786	60.836	29.528	1.00	0.00	O
ATOM	7566	C	ASP	796	38.166	60.564	32.278	1.00	0.00	C
ATOM	7567	O	ASP	796	38.934	61.387	32.771	1.00	0.00	O
ATOM	7568	N	LYS	797	36.843	60.795	32.158	1.00	0.00	N
ATOM	7569	HN	LYS	797	36.238	60.092	31.733	1.00	0.00	H
ATOM	7570	CA	LYS	797	36.288	62.031	32.629	1.00	0.00	C
ATOM	7571	CB	LYS	797	34.750	62.078	32.633	1.00	0.00	C
ATOM	7572	CG	LYS	797	34.038	62.169	31.286	1.00	0.00	C
ATOM	7573	CD	LYS	797	32.554	61.835	31.451	1.00	0.00	C
ATOM	7574	CE	LYS	797	31.684	62.020	30.208	1.00	0.00	C
ATOM	7575	NZ	LYS	797	30.290	61.627	30.521	1.00	0.00	N
ATOM	7576	HZ1	LYS	797	29.709	61.750	29.691	1.00	0.00	H
ATOM	7577	HZ2	LYS	797	29.920	62.127	31.329	1.00	0.00	H
ATOM	7578	HZ3	LYS	797	30.231	60.680	30.897	1.00	0.00	H
ATOM	7579	C	LYS	797	36.628	62.049	34.085	1.00	0.00	C
ATOM	7580	O	LYS	797	36.847	63.116	34.643	1.00	0.00	O
ATOM	7581	N	LYS	798	36.620	60.862	34.738	1.00	0.00	N
ATOM	7582	HN	LYS	798	36.403	60.021	34.204	1.00	0.00	H
ATOM	7583	CA	LYS	798	36.901	60.720	36.145	1.00	0.00	C
ATOM	7584	CB	LYS	798	36.610	59.301	36.665	1.00	0.00	C
ATOM	7585	CG	LYS	798	35.136	58.894	36.591	1.00	0.00	C
ATOM	7586	CD	LYS	798	34.194	59.756	37.436	1.00	0.00	C
ATOM	7587	CE	LYS	798	33.365	60.751	36.622	1.00	0.00	C
ATOM	7588	NZ	LYS	798	32.434	61.480	37.512	1.00	0.00	N
ATOM	7589	HZ1	LYS	798	31.881	62.143	36.969	1.00	0.00	H
ATOM	7590	HZ2	LYS	798	32.920	61.931	38.287	1.00	0.00	H
ATOM	7591	HZ3	LYS	798	31.847	60.846	38.054	1.00	0.00	H
ATOM	7592	C	LYS	798	38.339	61.019	36.492	1.00	0.00	C
ATOM	7593	O	LYS	798	38.609	61.810	37.391	1.00	0.00	O
ATOM	7594	N	GLU	799	39.319	60.410	35.798	1.00	0.00	N
ATOM	7595	HN	GLU	799	39.095	59.803	35.010	1.00	0.00	H
ATOM	7596	CA	GLU	799	40.689	60.629	36.186	1.00	0.00	C
ATOM	7597	CB	GLU	799	41.662	59.802	35.331	1.00	0.00	C
ATOM	7598	CG	GLU	799	41.488	58.294	35.521	1.00	0.00	C
ATOM	7599	CD	GLU	799	42.253	57.576	34.420	1.00	0.00	C
ATOM	7600	OE1	GLU	799	42.879	58.272	33.576	1.00	0.00	O
ATOM	7601	OE2	GLU	799	42.216	56.319	34.408	1.00	0.00	O
ATOM	7602	C	GLU	799	41.005	62.073	35.971	1.00	0.00	C
ATOM	7603	O	GLU	799	41.546	62.742	36.850	1.00	0.00	O
ATOM	7604	N	LEU	800	40.627	62.592	34.790	1.00	0.00	N
ATOM	7605	HN	LEU	800	40.152	61.983	34.123	1.00	0.00	H
ATOM	7606	CA	LEU	800	40.857	63.956	34.421	1.00	0.00	C
ATOM	7607	CB	LEU	800	40.383	64.276	32.983	1.00	0.00	C
ATOM	7608	CG	LEU	800	38.855	64.216	32.733	1.00	0.00	C
ATOM	7609	CD1	LEU	800	38.111	65.438	33.300	1.00	0.00	C
ATOM	7610	CD2	LEU	800	38.539	63.985	31.246	1.00	0.00	C
ATOM	7611	C	LEU	800	40.080	64.779	35.375	1.00	0.00	C
ATOM	7612	O	LEU	800	40.525	65.856	35.758	1.00	0.00	O
ATOM	7613	N	GLU	801	38.889	64.299	35.776	1.00	0.00	N
ATOM	7614	HN	GLU	801	38.571	63.383	35.460	1.00	0.00	H
ATOM	7615	CA	GLU	801	38.073	65.083	36.648	1.00	0.00	C
ATOM	7616	CB	GLU	801	36.665	64.544	36.975	1.00	0.00	C
ATOM	7617	CG	GLU	801	36.608	63.526	38.111	1.00	0.00	C
ATOM	7618	CD	GLU	801	35.143	63.252	38.409	1.00	0.00	C
ATOM	7619	OE1	GLU	801	34.277	63.847	37.715	1.00	0.00	O

ATOM	7620	OE2	GLU	801	34.870	62.445	39.338	1.00	0.00	O
ATOM	7621	C	GLU	801	38.806	65.182	37.926	1.00	0.00	C
ATOM	7622	O	GLU	801	38.677	66.172	38.630	1.00	0.00	O
ATOM	7623	N	GLY	802	39.584	64.153	38.293	1.00	0.00	N
ATOM	7624	HN	GLY	802	39.677	63.319	37.713	1.00	0.00	H
ATOM	7625	CA	GLY	802	40.274	64.280	39.531	1.00	0.00	C
ATOM	7626	C	GLY	802	41.192	65.459	39.448	1.00	0.00	C
ATOM	7627	O	GLY	802	41.178	66.320	40.324	1.00	0.00	O
ATOM	7628	N	SER	803	41.998	65.534	38.373	1.00	0.00	N
ATOM	7629	HN	SER	803	41.942	64.814	37.653	1.00	0.00	H
ATOM	7630	CA	SER	803	42.933	66.607	38.222	1.00	0.00	C
ATOM	7631	CB	SER	803	43.856	66.431	37.010	1.00	0.00	C
ATOM	7632	OG	SER	803	44.630	65.250	37.155	1.00	0.00	O
ATOM	7633	HG	SER	803	45.202	65.141	36.404	1.00	0.00	H
ATOM	7634	C	SER	803	42.217	67.909	38.025	1.00	0.00	C
ATOM	7635	O	SER	803	42.335	68.817	38.840	1.00	0.00	O
ATOM	7636	N	GLY	804	41.403	68.001	36.955	1.00	0.00	N
ATOM	7637	HN	GLY	804	41.243	67.155	36.408	1.00	0.00	H
ATOM	7638	CA	GLY	804	40.744	69.203	36.528	1.00	0.00	C
ATOM	7639	C	GLY	804	39.849	69.701	37.584	1.00	0.00	C
ATOM	7640	O	GLY	804	39.711	70.910	37.741	1.00	0.00	O
ATOM	7641	N	LYS	805	39.190	68.790	38.315	1.00	0.00	N
ATOM	7642	HN	LYS	805	39.323	67.791	38.161	1.00	0.00	H
ATOM	7643	CA	LYS	805	38.299	69.271	39.314	1.00	0.00	C
ATOM	7644	CB	LYS	805	37.609	68.163	40.127	1.00	0.00	C
ATOM	7645	CG	LYS	805	36.272	68.530	40.767	1.00	0.00	C
ATOM	7646	CD	LYS	805	35.517	67.286	41.245	1.00	0.00	C
ATOM	7647	CE	LYS	805	34.048	67.527	41.589	1.00	0.00	C
ATOM	7648	NZ	LYS	805	33.217	67.389	40.372	1.00	0.00	N
ATOM	7649	HZ1	LYS	805	32.236	67.550	40.602	1.00	0.00	H
ATOM	7650	HZ2	LYS	805	33.360	66.491	39.910	1.00	0.00	H
ATOM	7651	HZ3	LYS	805	33.538	67.996	39.618	1.00	0.00	H
ATOM	7652	C	LYS	805	39.178	70.017	40.261	1.00	0.00	C
ATOM	7653	O	LYS	805	38.772	71.036	40.809	1.00	0.00	O
ATOM	7654	N	ILE	806	40.410	69.507	40.484	1.00	0.00	N
ATOM	7655	HN	ILE	806	40.690	68.643	40.019	1.00	0.00	H
ATOM	7656	CA	ILE	806	41.324	70.165	41.364	1.00	0.00	C
ATOM	7657	CB	ILE	806	42.528	69.406	41.778	1.00	0.00	C
ATOM	7658	CG1	ILE	806	42.196	67.991	42.240	1.00	0.00	C
ATOM	7659	CG2	ILE	806	43.040	70.224	42.965	1.00	0.00	C
ATOM	7660	CD1	ILE	806	43.438	67.121	42.419	1.00	0.00	C
ATOM	7661	C	ILE	806	41.858	71.434	40.789	1.00	0.00	C
ATOM	7662	O	ILE	806	42.075	72.410	41.501	1.00	0.00	O
ATOM	7663	N	ALA	807	42.163	71.443	39.487	1.00	0.00	N
ATOM	7664	HN	ALA	807	42.023	70.609	38.917	1.00	0.00	H
ATOM	7665	CA	ALA	807	42.688	72.639	38.907	1.00	0.00	C
ATOM	7666	CB	ALA	807	43.024	72.496	37.414	1.00	0.00	C
ATOM	7667	C	ALA	807	41.632	73.682	39.064	1.00	0.00	C
ATOM	7668	O	ALA	807	41.945	74.849	39.283	1.00	0.00	O
ATOM	7669	N	THR	808	40.347	73.291	38.912	1.00	0.00	N
ATOM	7670	HN	THR	808	40.138	72.329	38.644	1.00	0.00	H
ATOM	7671	CA	THR	808	39.277	74.221	39.125	1.00	0.00	C
ATOM	7672	CB	THR	808	37.922	73.813	38.618	1.00	0.00	C
ATOM	7673	OG1	THR	808	37.489	72.606	39.218	1.00	0.00	O
ATOM	7674	HG1	THR	808	37.449	72.690	40.163	1.00	0.00	H
ATOM	7675	CG2	THR	808	37.987	73.677	37.093	1.00	0.00	C
ATOM	7676	C	THR	808	39.196	74.498	40.567	1.00	0.00	C
ATOM	7677	O	THR	808	38.780	75.582	40.950	1.00	0.00	O
ATOM	7678	N	GLU	809	39.573	73.522	41.413	1.00	0.00	N
ATOM	7679	HN	GLU	809	39.901	72.620	41.068	1.00	0.00	H
ATOM	7680	CA	GLU	809	39.497	73.795	42.806	1.00	0.00	C
ATOM	7681	CB	GLU	809	40.017	72.675	43.724	1.00	0.00	C
ATOM	7682	CG	GLU	809	39.825	73.024	45.206	1.00	0.00	C
ATOM	7683	CD	GLU	809	40.366	71.893	46.071	1.00	0.00	C
ATOM	7684	OE1	GLU	809	41.439	71.341	45.712	1.00	0.00	O
ATOM	7685	OE2	GLU	809	39.718	71.570	47.104	1.00	0.00	O
ATOM	7686	C	GLU	809	40.362	74.980	43.053	1.00	0.00	C
ATOM	7687	O	GLU	809	39.919	75.917	43.705	1.00	0.00	O
ATOM	7688	N	ALA	810	41.593	74.985	42.508	1.00	0.00	N
ATOM	7689	HN	ALA	810	41.904	74.195	41.942	1.00	0.00	H
ATOM	7690	CA	ALA	810	42.466	76.100	42.723	1.00	0.00	C
ATOM	7691	CB	ALA	810	43.900	75.821	42.245	1.00	0.00	C
ATOM	7692	C	ALA	810	42.000	77.340	42.018	1.00	0.00	C
ATOM	7693	O	ALA	810	41.755	78.367	42.638	1.00	0.00	O



ATOM	7694	N	ILE	811	41.770	77.277	40.702	1.00	0.00	N
ATOM	7695	HN	ILE	811	41.829	76.388	40.206	1.00	0.00	H
ATOM	7696	CA	ILE	811	41.439	78.481	40.002	1.00	0.00	C
ATOM	7697	CB	ILE	811	41.313	78.256	38.536	1.00	0.00	C
ATOM	7698	CG1	ILE	811	40.702	79.503	37.914	1.00	0.00	C
ATOM	7699	CG2	ILE	811	40.544	76.963	38.254	1.00	0.00	C
ATOM	7700	CD1	ILE	811	40.665	79.430	36.398	1.00	0.00	C
ATOM	7701	C	ILE	811	40.143	79.033	40.513	1.00	0.00	C
ATOM	7702	O	ILE	811	40.005	80.240	40.701	1.00	0.00	O
ATOM	7703	N	GLU	812	39.152	78.159	40.752	1.00	0.00	N
ATOM	7704	HN	GLU	812	39.327	77.165	40.605	1.00	0.00	H
ATOM	7705	CA	GLU	812	37.858	78.572	41.206	1.00	0.00	C
ATOM	7706	CB	GLU	812	36.790	77.463	41.305	1.00	0.00	C
ATOM	7707	CG	GLU	812	36.841	76.608	42.573	1.00	0.00	C
ATOM	7708	CD	GLU	812	35.718	75.584	42.474	1.00	0.00	C
ATOM	7709	OE1	GLU	812	34.531	76.007	42.454	1.00	0.00	O
ATOM	7710	OE2	GLU	812	36.032	74.366	42.412	1.00	0.00	O
ATOM	7711	C	GLU	812	38.045	79.128	42.551	1.00	0.00	C
ATOM	7712	O	GLU	812	37.267	79.959	43.014	1.00	0.00	O
ATOM	7713	N	ASN	813	39.069	78.622	43.241	1.00	0.00	N
ATOM	7714	HN	ASN	813	39.666	77.908	42.823	1.00	0.00	H
ATOM	7715	CA	ASN	813	39.322	79.082	44.557	1.00	0.00	C
ATOM	7716	CB	ASN	813	39.658	77.958	45.550	1.00	0.00	C
ATOM	7717	CG	ASN	813	38.442	77.065	45.713	1.00	0.00	C
ATOM	7718	OD1	ASN	813	37.310	77.463	45.455	1.00	0.00	O
ATOM	7719	ND2	ASN	813	38.691	75.803	46.147	1.00	0.00	N
ATOM	7720	1HD2	ASN	813	37.874	75.203	46.257	1.00	0.00	H
ATOM	7721	2HD2	ASN	813	39.632	75.472	46.361	1.00	0.00	H
ATOM	7722	C	ASN	813	40.535	79.934	44.510	1.00	0.00	C
ATOM	7723	O	ASN	813	41.557	79.533	45.055	1.00	0.00	O
ATOM	7724	N	PHE	814	40.425	81.206	44.043	1.00	0.00	N
ATOM	7725	HN	PHE	814	39.502	81.513	43.737	1.00	0.00	H
ATOM	7726	CA	PHE	814	41.511	82.163	43.944	1.00	0.00	C
ATOM	7727	CB	PHE	814	41.149	83.535	43.332	1.00	0.00	C
ATOM	7728	CG	PHE	814	40.300	84.352	44.253	1.00	0.00	C
ATOM	7729	CD1	PHE	814	40.860	85.113	45.259	1.00	0.00	C
ATOM	7730	CD2	PHE	814	38.935	84.390	44.088	1.00	0.00	C
ATOM	7731	CE1	PHE	814	40.076	85.869	46.096	1.00	0.00	C
ATOM	7732	CE2	PHE	814	38.144	85.146	44.919	1.00	0.00	C
ATOM	7733	CZ	PHE	814	38.713	85.885	45.928	1.00	0.00	C
ATOM	7734	C	PHE	814	41.983	82.408	45.336	1.00	0.00	C
ATOM	7735	O	PHE	814	43.010	83.034	45.575	1.00	0.00	O
ATOM	7736	N	ARG	815	41.182	81.906	46.285	1.00	0.00	N
ATOM	7737	HN	ARG	815	40.337	81.464	45.923	1.00	0.00	H
ATOM	7738	CA	ARG	815	41.288	81.874	47.691	1.00	0.00	C
ATOM	7739	CB	ARG	815	40.162	81.106	48.400	1.00	0.00	C
ATOM	7740	CG	ARG	815	38.852	81.884	48.430	1.00	0.00	C
ATOM	7741	CD	ARG	815	38.243	82.077	47.045	1.00	0.00	C
ATOM	7742	NE	ARG	815	37.448	80.856	46.737	1.00	0.00	N
ATOM	7743	HE	ARG	815	37.466	80.055	47.369	1.00	0.00	H
ATOM	7744	CZ	ARG	815	36.696	80.821	45.601	1.00	0.00	C
ATOM	7745	NH1	ARG	815	36.693	81.887	44.754	1.00	0.00	N
ATOM	7746	1HH1	ARG	815	37.262	82.705	44.973	1.00	0.00	H
ATOM	7747	2HH1	ARG	815	36.130	81.861	43.904	1.00	0.00	H
ATOM	7748	NH2	ARG	815	35.937	79.729	45.309	1.00	0.00	N
ATOM	7749	1HH2	ARG	815	35.939	78.930	45.944	1.00	0.00	H
ATOM	7750	2HH2	ARG	815	35.374	79.703	44.459	1.00	0.00	H
ATOM	7751	C	ARG	815	42.578	81.222	48.098	1.00	0.00	C
ATOM	7752	O	ARG	815	42.766	80.891	49.263	1.00	0.00	O
ATOM	7753	N	THR	816	43.325	80.724	47.111	1.00	0.00	N
ATOM	7754	HN	THR	816	42.880	80.660	46.195	1.00	0.00	H
ATOM	7755	CA	THR	816	44.677	80.270	47.191	1.00	0.00	C
ATOM	7756	CB	THR	816	45.002	79.515	45.942	1.00	0.00	C
ATOM	7757	OG1	THR	816	44.237	78.326	45.854	1.00	0.00	O
ATOM	7758	HG1	THR	816	44.443	77.846	45.060	1.00	0.00	H
ATOM	7759	CG2	THR	816	46.497	79.235	45.887	1.00	0.00	C
ATOM	7760	C	THR	816	45.659	81.401	47.219	1.00	0.00	C
ATOM	7761	O	THR	816	46.449	81.529	48.149	1.00	0.00	O
ATOM	7762	N	VAL	817	45.553	82.322	46.226	1.00	0.00	N
ATOM	7763	HN	VAL	817	44.764	82.220	45.587	1.00	0.00	H
ATOM	7764	CA	VAL	817	46.443	83.428	45.985	1.00	0.00	C
ATOM	7765	CB	VAL	817	46.062	84.289	44.814	1.00	0.00	C
ATOM	7766	CG1	VAL	817	44.788	85.076	45.159	1.00	0.00	C
ATOM	7767	CG2	VAL	817	47.259	85.191	44.472	1.00	0.00	C

ATOM	7768	C	VAL	817	46.322	84.247	47.201	1.00	0.00	C
ATOM	7769	O	VAL	817	47.181	85.069	47.517	1.00	0.00	O
ATOM	7770	N	VAL	818	45.194	84.052	47.898	1.00	0.00	N
ATOM	7771	HN	VAL	818	44.488	83.398	47.561	1.00	0.00	H
ATOM	7772	CA	VAL	818	44.992	84.756	49.098	1.00	0.00	C
ATOM	7773	CB	VAL	818	43.707	84.450	49.811	1.00	0.00	C
ATOM	7774	CG1	VAL	818	43.792	83.084	50.500	1.00	0.00	C
ATOM	7775	CG2	VAL	818	43.433	85.608	50.784	1.00	0.00	C
ATOM	7776	C	VAL	818	46.151	84.479	50.003	1.00	0.00	C
ATOM	7777	O	VAL	818	46.634	85.406	50.642	1.00	0.00	O
ATOM	7778	N	SER	819	46.574	83.203	50.153	1.00	0.00	N
ATOM	7779	HN	SER	819	46.044	82.462	49.695	1.00	0.00	H
ATOM	7780	CA	SER	819	47.732	82.836	50.924	1.00	0.00	C
ATOM	7781	CB	SER	819	47.558	81.461	51.590	1.00	0.00	C
ATOM	7782	OG	SER	819	47.331	80.464	50.606	1.00	0.00	O
ATOM	7783	HG	SER	819	47.224	79.615	51.017	1.00	0.00	H
ATOM	7784	C	SER	819	48.979	82.794	50.073	1.00	0.00	C
ATOM	7785	O	SER	819	50.064	83.163	50.517	1.00	0.00	O
ATOM	7786	N	LEU	820	48.850	82.286	48.828	1.00	0.00	N
ATOM	7787	HN	LEU	820	47.921	81.969	48.550	1.00	0.00	H
ATOM	7788	CA	LEU	820	49.907	82.151	47.857	1.00	0.00	C
ATOM	7789	CB	LEU	820	50.680	83.466	47.682	1.00	0.00	C
ATOM	7790	CG	LEU	820	51.713	83.444	46.546	1.00	0.00	C
ATOM	7791	CD1	LEU	820	51.036	83.565	45.171	1.00	0.00	C
ATOM	7792	CD2	LEU	820	52.815	84.482	46.781	1.00	0.00	C
ATOM	7793	C	LEU	820	50.886	81.125	48.355	1.00	0.00	C
ATOM	7794	O	LEU	820	51.884	80.811	47.707	1.00	0.00	O
ATOM	7795	N	THR	821	50.551	80.517	49.497	1.00	0.00	N
ATOM	7796	HN	THR	821	49.627	80.731	49.873	1.00	0.00	H
ATOM	7797	CA	THR	821	51.349	79.598	50.249	1.00	0.00	C
ATOM	7798	CB	THR	821	50.742	79.376	51.612	1.00	0.00	C
ATOM	7799	OG1	THR	821	50.501	80.632	52.227	1.00	0.00	O
ATOM	7800	HG1	THR	821	50.119	80.492	53.085	1.00	0.00	H
ATOM	7801	CG2	THR	821	51.731	78.618	52.502	1.00	0.00	C
ATOM	7802	C	THR	821	51.554	78.266	49.533	1.00	0.00	C
ATOM	7803	O	THR	821	52.246	77.424	50.095	1.00	0.00	O
ATOM	7804	N	GLN	822	50.734	77.916	48.503	1.00	0.00	N
ATOM	7805	HN	GLN	822	49.971	78.567	48.317	1.00	0.00	H
ATOM	7806	CA	GLN	822	50.781	76.747	47.622	1.00	0.00	C
ATOM	7807	CB	GLN	822	49.427	76.028	47.551	1.00	0.00	C
ATOM	7808	CG	GLN	822	48.310	76.902	46.982	1.00	0.00	C
ATOM	7809	CD	GLN	822	47.732	77.700	48.141	1.00	0.00	C
ATOM	7810	OE1	GLN	822	47.926	78.910	48.243	1.00	0.00	O
ATOM	7811	NE2	GLN	822	47.002	76.995	49.047	1.00	0.00	N
ATOM	7812	1HE2	GLN	822	46.614	77.530	49.824	1.00	0.00	H
ATOM	7813	2HE2	GLN	822	46.841	75.991	48.962	1.00	0.00	H
ATOM	7814	C	GLN	822	51.261	76.839	46.175	1.00	0.00	C
ATOM	7815	O	GLN	822	51.634	75.804	45.611	1.00	0.00	O
ATOM	7816	N	GLU	823	51.293	78.020	45.523	1.00	0.00	N
ATOM	7817	HN	GLU	823	51.476	78.869	46.058	1.00	0.00	H
ATOM	7818	CA	GLU	823	51.076	78.133	44.084	1.00	0.00	C
ATOM	7819	CB	GLU	823	51.577	79.482	43.532	1.00	0.00	C
ATOM	7820	CG	GLU	823	51.084	80.732	44.279	1.00	0.00	C
ATOM	7821	CD	GLU	823	49.561	80.787	44.388	1.00	0.00	C
ATOM	7822	OE1	GLU	823	48.920	79.728	44.624	1.00	0.00	O
ATOM	7823	OE2	GLU	823	49.019	81.918	44.270	1.00	0.00	O
ATOM	7824	C	GLU	823	51.679	77.072	43.187	1.00	0.00	C
ATOM	7825	O	GLU	823	50.954	76.217	42.666	1.00	0.00	O
ATOM	7826	N	GLN	824	53.003	77.037	42.991	1.00	0.00	N
ATOM	7827	HN	GLN	824	53.626	77.692	43.465	1.00	0.00	H
ATOM	7828	CA	GLN	824	53.514	76.041	42.087	1.00	0.00	C
ATOM	7829	CB	GLN	824	55.029	76.159	41.863	1.00	0.00	C
ATOM	7830	CG	GLN	824	55.578	75.131	40.871	1.00	0.00	C
ATOM	7831	CD	GLN	824	55.040	75.475	39.488	1.00	0.00	C
ATOM	7832	OE1	GLN	824	55.517	76.399	38.831	1.00	0.00	O
ATOM	7833	NE2	GLN	824	54.011	74.713	39.032	1.00	0.00	N
ATOM	7834	1HE2	GLN	824	53.615	73.947	39.577	1.00	0.00	H
ATOM	7835	2HE2	GLN	824	53.651	74.943	38.106	1.00	0.00	H
ATOM	7836	C	GLN	824	53.245	74.714	42.696	1.00	0.00	C
ATOM	7837	O	GLN	824	52.859	73.772	42.001	1.00	0.00	O
ATOM	7838	N	LYS	825	53.370	74.662	44.039	1.00	0.00	N
ATOM	7839	HN	LYS	825	53.589	75.521	44.543	1.00	0.00	H
ATOM	7840	CA	LYS	825	53.208	73.450	44.785	1.00	0.00	C
ATOM	7841	CB	LYS	825	53.159	73.643	46.308	1.00	0.00	C

ATOM	7842	CG	LYS	825	52.872	72.335	47.043	1.00	0.00	C
ATOM	7843	CD	LYS	825	52.868	72.444	48.563	1.00	0.00	C
ATOM	7844	CE	LYS	825	52.315	71.190	49.246	1.00	0.00	C
ATOM	7845	NZ	LYS	825	52.480	71.281	50.713	1.00	0.00	N
ATOM	7846	HZ1	LYS	825	52.112	70.446	51.168	1.00	0.00	H
ATOM	7847	HZ2	LYS	825	52.062	72.132	51.089	1.00	0.00	H
ATOM	7848	HZ3	LYS	825	53.450	71.458	50.975	1.00	0.00	H
ATOM	7849	C	LYS	825	51.891	72.892	44.374	1.00	0.00	C
ATOM	7850	O	LYS	825	51.713	71.681	44.268	1.00	0.00	O
ATOM	7851	N	PHE	826	50.930	73.789	44.127	1.00	0.00	N
ATOM	7852	HN	PHE	826	51.146	74.784	44.184	1.00	0.00	H
ATOM	7853	CA	PHE	826	49.609	73.378	43.786	1.00	0.00	C
ATOM	7854	CB	PHE	826	48.671	74.594	43.859	1.00	0.00	C
ATOM	7855	CG	PHE	826	47.341	74.125	44.318	1.00	0.00	C
ATOM	7856	CD1	PHE	826	47.207	73.735	45.632	1.00	0.00	C
ATOM	7857	CD2	PHE	826	46.256	74.048	43.478	1.00	0.00	C
ATOM	7858	CE1	PHE	826	46.004	73.291	46.118	1.00	0.00	C
ATOM	7859	CE2	PHE	826	45.047	73.606	43.963	1.00	0.00	C
ATOM	7860	CZ	PHE	826	44.920	73.231	45.280	1.00	0.00	C
ATOM	7861	C	PHE	826	49.479	72.721	42.436	1.00	0.00	C
ATOM	7862	O	PHE	826	49.267	71.510	42.346	1.00	0.00	O
ATOM	7863	N	GLU	827	49.740	73.476	41.345	1.00	0.00	N
ATOM	7864	HN	GLU	827	50.090	74.425	41.475	1.00	0.00	H
ATOM	7865	CA	GLU	827	49.540	72.982	40.000	1.00	0.00	C
ATOM	7866	CB	GLU	827	49.961	73.992	38.917	1.00	0.00	C
ATOM	7867	CG	GLU	827	49.063	75.228	38.836	1.00	0.00	C
ATOM	7868	CD	GLU	827	47.763	74.843	38.141	1.00	0.00	C
ATOM	7869	OE1	GLU	827	47.610	73.647	37.773	1.00	0.00	O
ATOM	7870	OE2	GLU	827	46.902	75.747	37.969	1.00	0.00	O
ATOM	7871	C	GLU	827	50.436	71.809	39.884	1.00	0.00	C
ATOM	7872	O	GLU	827	50.199	70.897	39.092	1.00	0.00	O
ATOM	7873	N	HIS	828	51.510	71.842	40.690	1.00	0.00	N
ATOM	7874	HN	HIS	828	51.632	72.636	41.318	1.00	0.00	H
ATOM	7875	CA	HIS	828	52.486	70.802	40.696	1.00	0.00	C
ATOM	7876	ND1	HIS	828	55.490	69.593	40.795	1.00	0.00	N
ATOM	7877	HD1	HIS	828	55.652	70.112	39.932	1.00	0.00	H
ATOM	7878	CG	HIS	828	54.564	69.889	41.770	1.00	0.00	C
ATOM	7879	CB	HIS	828	53.609	71.042	41.712	1.00	0.00	C
ATOM	7880	NE2	HIS	828	55.707	68.038	42.370	1.00	0.00	N
ATOM	7881	HE2	HIS	828	56.031	67.224	42.893	1.00	0.00	H
ATOM	7882	CD2	HIS	828	54.710	68.929	42.724	1.00	0.00	C
ATOM	7883	CE1	HIS	828	56.146	68.476	41.204	1.00	0.00	C
ATOM	7884	C	HIS	828	51.863	69.495	41.048	1.00	0.00	C
ATOM	7885	O	HIS	828	52.086	68.501	40.359	1.00	0.00	O
ATOM	7886	N	MET	829	51.023	69.472	42.097	1.00	0.00	N
ATOM	7887	HN	MET	829	50.792	70.339	42.583	1.00	0.00	H
ATOM	7888	CA	MET	829	50.451	68.231	42.535	1.00	0.00	C
ATOM	7889	CB	MET	829	49.481	68.429	43.710	1.00	0.00	C
ATOM	7890	CG	MET	829	50.182	68.953	44.965	1.00	0.00	C
ATOM	7891	SD	MET	829	49.072	69.443	46.315	1.00	0.00	S
ATOM	7892	CE	MET	829	50.431	69.794	47.464	1.00	0.00	C
ATOM	7893	C	MET	829	49.682	67.687	41.370	1.00	0.00	C
ATOM	7894	O	MET	829	49.638	66.482	41.122	1.00	0.00	O
ATOM	7895	N	TYR	830	49.059	68.599	40.612	1.00	0.00	N
ATOM	7896	HN	TYR	830	49.154	69.585	40.855	1.00	0.00	H
ATOM	7897	CA	TYR	830	48.264	68.243	39.473	1.00	0.00	C
ATOM	7898	CB	TYR	830	47.384	69.406	39.000	1.00	0.00	C
ATOM	7899	CG	TYR	830	46.872	69.794	40.334	1.00	0.00	C
ATOM	7900	CD1	TYR	830	46.285	68.837	41.128	1.00	0.00	C
ATOM	7901	CD2	TYR	830	46.984	71.083	40.794	1.00	0.00	C
ATOM	7902	CE1	TYR	830	45.831	69.153	42.383	1.00	0.00	C
ATOM	7903	CE2	TYR	830	46.530	71.406	42.050	1.00	0.00	C
ATOM	7904	CZ	TYR	830	45.961	70.439	42.845	1.00	0.00	C
ATOM	7905	OH	TYR	830	45.499	70.760	44.138	1.00	0.00	O
ATOM	7906	HH	TYR	830	45.589	71.650	44.458	1.00	0.00	H
ATOM	7907	C	TYR	830	49.131	67.718	38.382	1.00	0.00	C
ATOM	7908	O	TYR	830	48.688	66.912	37.566	1.00	0.00	O
ATOM	7909	N	ALA	831	50.388	68.187	38.312	1.00	0.00	N
ATOM	7910	HN	ALA	831	50.729	68.863	38.995	1.00	0.00	H
ATOM	7911	CA	ALA	831	51.242	67.719	37.259	1.00	0.00	C
ATOM	7912	CB	ALA	831	52.667	68.288	37.359	1.00	0.00	C
ATOM	7913	C	ALA	831	51.335	66.233	37.387	1.00	0.00	C
ATOM	7914	O	ALA	831	51.344	65.511	36.390	1.00	0.00	O
ATOM	7915	N	GLN	832	51.405	65.739	38.634	1.00	0.00	N

ATOM	7916	HN	GLN	832	51.374	66.374	39.432	1.00	0.00	H
ATOM	7917	CA	GLN	832	51.523	64.327	38.853	1.00	0.00	C
ATOM	7918	CB	GLN	832	51.661	63.985	40.344	1.00	0.00	C
ATOM	7919	CG	GLN	832	52.820	64.693	41.046	1.00	0.00	C
ATOM	7920	CD	GLN	832	54.122	64.177	40.458	1.00	0.00	C
ATOM	7921	OE1	GLN	832	54.341	64.247	39.250	1.00	0.00	O
ATOM	7922	NE2	GLN	832	55.013	63.642	41.335	1.00	0.00	N
ATOM	7923	1HE2	GLN	832	54.831	63.584	42.337	1.00	0.00	H
ATOM	7924	2HE2	GLN	832	55.887	63.295	40.940	1.00	0.00	H
ATOM	7925	C	GLN	832	50.283	63.631	38.393	1.00	0.00	C
ATOM	7926	O	GLN	832	50.333	62.627	37.680	1.00	0.00	O
ATOM	7927	N	SER	833	49.122	64.193	38.767	1.00	0.00	N
ATOM	7928	HN	SER	833	49.140	65.093	39.247	1.00	0.00	H
ATOM	7929	CA	SER	833	47.859	63.567	38.512	1.00	0.00	C
ATOM	7930	CB	SER	833	46.688	64.490	38.872	1.00	0.00	C
ATOM	7931	OG	SER	833	46.844	64.964	40.200	1.00	0.00	O
ATOM	7932	HG	SER	833	46.119	65.536	40.423	1.00	0.00	H
ATOM	7933	C	SER	833	47.759	63.320	37.054	1.00	0.00	C
ATOM	7934	O	SER	833	47.540	62.193	36.627	1.00	0.00	O
ATOM	7935	N	LEU	834	48.018	64.359	36.247	1.00	0.00	N
ATOM	7936	HN	LEU	834	48.339	65.241	36.647	1.00	0.00	H
ATOM	7937	CA	LEU	834	47.849	64.245	34.831	1.00	0.00	C
ATOM	7938	CB	LEU	834	48.258	65.517	34.056	1.00	0.00	C
ATOM	7939	CG	LEU	834	47.252	66.692	34.081	1.00	0.00	C
ATOM	7940	CD1	LEU	834	46.016	66.393	33.217	1.00	0.00	C
ATOM	7941	CD2	LEU	834	46.882	67.110	35.512	1.00	0.00	C
ATOM	7942	C	LEU	834	48.692	63.132	34.323	1.00	0.00	C
ATOM	7943	O	LEU	834	48.237	62.381	33.461	1.00	0.00	O
ATOM	7944	N	GLN	835	49.898	62.952	34.901	1.00	0.00	N
ATOM	7945	HN	GLN	835	50.141	63.496	35.729	1.00	0.00	H
ATOM	7946	CA	GLN	835	50.848	62.010	34.374	1.00	0.00	C
ATOM	7947	CB	GLN	835	51.978	61.689	35.351	1.00	0.00	C
ATOM	7948	CG	GLN	835	52.809	62.865	35.823	1.00	0.00	C
ATOM	7949	CD	GLN	835	53.740	62.282	36.872	1.00	0.00	C
ATOM	7950	OE1	GLN	835	53.347	61.429	37.665	1.00	0.00	O
ATOM	7951	NE2	GLN	835	55.016	62.743	36.872	1.00	0.00	N
ATOM	7952	1HE2	GLN	835	55.342	63.451	36.214	1.00	0.00	H
ATOM	7953	2HE2	GLN	835	55.641	62.351	37.576	1.00	0.00	H
ATOM	7954	C	GLN	835	50.201	60.674	34.219	1.00	0.00	C
ATOM	7955	O	GLN	835	50.273	60.066	33.152	1.00	0.00	O
ATOM	7956	N	VAL	836	49.527	60.185	35.272	1.00	0.00	N
ATOM	7957	HN	VAL	836	49.423	60.714	36.138	1.00	0.00	H
ATOM	7958	CA	VAL	836	48.963	58.879	35.110	1.00	0.00	C
ATOM	7959	CB	VAL	836	48.642	58.161	36.405	1.00	0.00	C
ATOM	7960	CG1	VAL	836	48.050	59.110	37.458	1.00	0.00	C
ATOM	7961	CG2	VAL	836	47.749	56.958	36.063	1.00	0.00	C
ATOM	7962	C	VAL	836	47.842	58.837	34.101	1.00	0.00	C
ATOM	7963	O	VAL	836	47.847	57.949	33.248	1.00	0.00	O
ATOM	7964	N	PRO	837	46.889	59.730	34.080	1.00	0.00	N
ATOM	7965	CA	PRO	837	45.912	59.584	33.042	1.00	0.00	C
ATOM	7966	CD	PRO	837	46.221	60.125	35.304	1.00	0.00	C
ATOM	7967	CB	PRO	837	44.758	60.508	33.410	1.00	0.00	C
ATOM	7968	CG	PRO	837	44.759	60.433	34.942	1.00	0.00	C
ATOM	7969	C	PRO	837	46.478	59.786	31.683	1.00	0.00	C
ATOM	7970	O	PRO	837	45.799	59.460	30.710	1.00	0.00	O
ATOM	7971	N	TYR	838	47.684	60.366	31.587	1.00	0.00	N
ATOM	7972	HN	TYR	838	48.180	60.646	32.433	1.00	0.00	H
ATOM	7973	CA	TYR	838	48.279	60.595	30.305	1.00	0.00	C
ATOM	7974	CB	TYR	838	49.498	61.526	30.449	1.00	0.00	C
ATOM	7975	CG	TYR	838	50.048	61.855	29.110	1.00	0.00	C
ATOM	7976	CD1	TYR	838	49.386	62.734	28.285	1.00	0.00	C
ATOM	7977	CD2	TYR	838	51.215	61.273	28.675	1.00	0.00	C
ATOM	7978	CE1	TYR	838	49.889	63.042	27.044	1.00	0.00	C
ATOM	7979	CE2	TYR	838	51.723	61.579	27.436	1.00	0.00	C
ATOM	7980	CZ	TYR	838	51.061	62.464	26.621	1.00	0.00	C
ATOM	7981	OH	TYR	838	51.584	62.775	25.350	1.00	0.00	O
ATOM	7982	HH	TYR	838	52.395	62.375	25.057	1.00	0.00	H
ATOM	7983	C	TYR	838	48.663	59.288	29.673	1.00	0.00	C
ATOM	7984	O	TYR	838	48.316	59.019	28.522	1.00	0.00	O
ATOM	7985	N	ARG	839	49.349	58.410	30.431	1.00	0.00	N
ATOM	7986	HN	ARG	839	49.557	58.629	31.405	1.00	0.00	H
ATOM	7987	CA	ARG	839	49.787	57.162	29.863	1.00	0.00	C
ATOM	7988	CB	ARG	839	50.643	56.341	30.850	1.00	0.00	C
ATOM	7989	CG	ARG	839	49.950	56.029	32.179	1.00	0.00	C

ATOM	7990	CD	ARG	839	50.918	55.650	33.304	1.00	0.00	C
ATOM	7991	NE	ARG	839	51.902	56.765	33.429	1.00	0.00	N
ATOM	7992	HE	ARG	839	52.477	57.018	32.626	1.00	0.00	H
ATOM	7993	CZ	ARG	839	52.046	57.453	34.601	1.00	0.00	C
ATOM	7994	NH1	ARG	839	51.270	57.151	35.682	1.00	0.00	N
ATOM	7995	1HH1	ARG	839	50.579	56.403	35.615	1.00	0.00	H
ATOM	7996	2HH1	ARG	839	51.377	57.664	36.557	1.00	0.00	H
ATOM	7997	NH2	ARG	839	52.970	58.453	34.690	1.00	0.00	N
ATOM	7998	1HH2	ARG	839	53.550	58.679	33.882	1.00	0.00	H
ATOM	7999	2HH2	ARG	839	53.077	58.966	35.565	1.00	0.00	H
ATOM	8000	C	ARG	839	48.576	56.378	29.473	1.00	0.00	C
ATOM	8001	O	ARG	839	48.493	55.816	28.380	1.00	0.00	O
ATOM	8002	N	ASN	840	47.569	56.389	30.357	1.00	0.00	N
ATOM	8003	HN	ASN	840	47.672	56.938	31.210	1.00	0.00	H
ATOM	8004	CA	ASN	840	46.355	55.661	30.151	1.00	0.00	C
ATOM	8005	CB	ASN	840	45.369	55.885	31.313	1.00	0.00	C
ATOM	8006	CG	ASN	840	44.068	55.146	31.041	1.00	0.00	C
ATOM	8007	OD1	ASN	840	43.143	55.700	30.449	1.00	0.00	O
ATOM	8008	ND2	ASN	840	43.990	53.864	31.487	1.00	0.00	N
ATOM	8009	1HD2	ASN	840	44.757	53.405	31.978	1.00	0.00	H
ATOM	8010	2HD2	ASN	840	43.117	53.368	31.305	1.00	0.00	H
ATOM	8011	C	ASN	840	45.709	56.138	28.883	1.00	0.00	C
ATOM	8012	O	ASN	840	45.120	55.349	28.146	1.00	0.00	O
ATOM	8013	N	SER	841	45.812	57.448	28.593	1.00	0.00	N
ATOM	8014	HN	SER	841	46.374	58.046	29.199	1.00	0.00	H
ATOM	8015	CA	SER	841	45.152	58.030	27.452	1.00	0.00	C
ATOM	8016	CB	SER	841	45.372	59.550	27.354	1.00	0.00	C
ATOM	8017	OG	SER	841	44.758	60.202	28.457	1.00	0.00	O
ATOM	8018	HG	SER	841	44.894	61.140	28.397	1.00	0.00	H
ATOM	8019	C	SER	841	45.642	57.421	26.181	1.00	0.00	C
ATOM	8020	O	SER	841	44.849	57.114	25.291	1.00	0.00	O
ATOM	8021	N	LEU	842	46.960	57.201	26.059	1.00	0.00	N
ATOM	8022	HN	LEU	842	47.594	57.393	26.834	1.00	0.00	H
ATOM	8023	CA	LEU	842	47.456	56.691	24.819	1.00	0.00	C
ATOM	8024	CB	LEU	842	48.987	56.543	24.790	1.00	0.00	C
ATOM	8025	CG	LEU	842	49.736	57.892	24.781	1.00	0.00	C
ATOM	8026	CD1	LEU	842	49.439	58.683	23.495	1.00	0.00	C
ATOM	8027	CD2	LEU	842	49.464	58.708	26.053	1.00	0.00	C
ATOM	8028	C	LEU	842	46.836	55.358	24.543	1.00	0.00	C
ATOM	8029	O	LEU	842	46.433	55.081	23.413	1.00	0.00	O
ATOM	8030	N	ARG	843	46.716	54.493	25.568	1.00	0.00	N
ATOM	8031	HN	ARG	843	46.994	54.756	26.513	1.00	0.00	H
ATOM	8032	CA	ARG	843	46.185	53.189	25.289	1.00	0.00	C
ATOM	8033	CB	ARG	843	46.158	52.256	26.514	1.00	0.00	C
ATOM	8034	CG	ARG	843	45.924	50.797	26.113	1.00	0.00	C
ATOM	8035	CD	ARG	843	44.496	50.283	26.318	1.00	0.00	C
ATOM	8036	NE	ARG	843	44.401	49.722	27.696	1.00	0.00	N
ATOM	8037	HE	ARG	843	44.600	48.733	27.848	1.00	0.00	H
ATOM	8038	CZ	ARG	843	44.053	50.506	28.758	1.00	0.00	C
ATOM	8039	NH1	ARG	843	43.782	51.831	28.577	1.00	0.00	N
ATOM	8040	1HH1	ARG	843	43.522	52.417	29.371	1.00	0.00	H
ATOM	8041	2HH1	ARG	843	43.843	52.243	27.646	1.00	0.00	H
ATOM	8042	NH2	ARG	843	43.971	49.955	30.005	1.00	0.00	N
ATOM	8043	1HH2	ARG	843	43.711	50.541	30.799	1.00	0.00	H
ATOM	8044	2HH2	ARG	843	44.174	48.965	30.140	1.00	0.00	H
ATOM	8045	C	ARG	843	44.780	53.314	24.779	1.00	0.00	C
ATOM	8046	O	ARG	843	44.438	52.760	23.736	1.00	0.00	O
ATOM	8047	N	LYS	844	43.943	54.115	25.462	1.00	0.00	N
ATOM	8048	HN	LYS	844	44.300	54.652	26.252	1.00	0.00	H
ATOM	8049	CA	LYS	844	42.557	54.230	25.103	1.00	0.00	C
ATOM	8050	CB	LYS	844	41.753	55.149	26.040	1.00	0.00	C
ATOM	8051	CG	LYS	844	42.232	56.599	26.065	1.00	0.00	C
ATOM	8052	CD	LYS	844	41.255	57.551	26.754	1.00	0.00	C
ATOM	8053	CE	LYS	844	41.759	58.993	26.823	1.00	0.00	C
ATOM	8054	NZ	LYS	844	41.764	59.589	25.470	1.00	0.00	N
ATOM	8055	HZ1	LYS	844	42.100	60.551	25.516	1.00	0.00	H
ATOM	8056	HZ2	LYS	844	40.851	59.523	25.019	1.00	0.00	H
ATOM	8057	HZ3	LYS	844	42.298	59.028	24.806	1.00	0.00	H
ATOM	8058	C	LYS	844	42.462	54.760	23.712	1.00	0.00	C
ATOM	8059	O	LYS	844	41.467	54.531	23.027	1.00	0.00	O
ATOM	8060	N	ALA	845	43.477	55.521	23.264	1.00	0.00	N
ATOM	8061	HN	ALA	845	44.265	55.749	23.871	1.00	0.00	H
ATOM	8062	CA	ALA	845	43.427	56.004	21.917	1.00	0.00	C
ATOM	8063	CB	ALA	845	44.740	56.687	21.516	1.00	0.00	C

ATOM	8064	C	ALA	845	43.345	54.785	21.063	1.00	0.00	C
ATOM	8065	O	ALA	845	42.433	54.622	20.253	1.00	0.00	O
ATOM	8066	N	HIS	846	44.239	53.830	21.347	1.00	0.00	N
ATOM	8067	HN	HIS	846	44.867	53.971	22.138	1.00	0.00	H
ATOM	8068	CA	HIS	846	44.354	52.622	20.593	1.00	0.00	C
ATOM	8069	ND1	HIS	846	44.396	49.385	20.629	1.00	0.00	N
ATOM	8070	HD1	HIS	846	43.466	49.518	21.027	1.00	0.00	H
ATOM	8071	CG	HIS	846	45.429	50.297	20.631	1.00	0.00	C
ATOM	8072	CB	HIS	846	45.336	51.648	21.273	1.00	0.00	C
ATOM	8073	NE2	HIS	846	46.104	48.411	19.591	1.00	0.00	N
ATOM	8074	HE2	HIS	846	46.676	47.728	19.094	1.00	0.00	H
ATOM	8075	CD2	HIS	846	46.463	49.685	19.992	1.00	0.00	C
ATOM	8076	CE1	HIS	846	44.853	48.277	19.996	1.00	0.00	C
ATOM	8077	C	HIS	846	43.025	51.945	20.577	1.00	0.00	C
ATOM	8078	O	HIS	846	42.542	51.537	19.522	1.00	0.00	O
ATOM	8079	N	ILE	847	42.372	51.849	21.746	1.00	0.00	N
ATOM	8080	HN	ILE	847	42.742	52.306	22.580	1.00	0.00	H
ATOM	8081	CA	ILE	847	41.152	51.100	21.815	1.00	0.00	C
ATOM	8082	CB	ILE	847	40.604	50.961	23.210	1.00	0.00	C
ATOM	8083	CG1	ILE	847	39.597	49.800	23.270	1.00	0.00	C
ATOM	8084	CG2	ILE	847	39.998	52.303	23.646	1.00	0.00	C
ATOM	8085	CD1	ILE	847	39.244	49.377	24.695	1.00	0.00	C
ATOM	8086	C	ILE	847	40.097	51.709	20.938	1.00	0.00	C
ATOM	8087	O	ILE	847	39.388	50.991	20.234	1.00	0.00	O
ATOM	8088	N	PHE	848	39.974	53.050	20.920	1.00	0.00	N
ATOM	8089	HN	PHE	848	40.617	53.635	21.453	1.00	0.00	H
ATOM	8090	CA	PHE	848	38.925	53.646	20.140	1.00	0.00	C
ATOM	8091	CB	PHE	848	38.801	55.165	20.291	1.00	0.00	C
ATOM	8092	CG	PHE	848	38.166	55.340	21.625	1.00	0.00	C
ATOM	8093	CD1	PHE	848	36.797	55.288	21.745	1.00	0.00	C
ATOM	8094	CD2	PHE	848	38.925	55.527	22.754	1.00	0.00	C
ATOM	8095	CE1	PHE	848	36.194	55.437	22.969	1.00	0.00	C
ATOM	8096	CE2	PHE	848	38.329	55.677	23.981	1.00	0.00	C
ATOM	8097	CZ	PHE	848	36.961	55.634	24.091	1.00	0.00	C
ATOM	8098	C	PHE	848	39.123	53.287	18.721	1.00	0.00	C
ATOM	8099	O	PHE	848	38.160	53.068	17.990	1.00	0.00	O
ATOM	8100	N	GLY	849	40.386	53.237	18.281	1.00	0.00	N
ATOM	8101	HN	GLY	849	41.176	53.425	18.898	1.00	0.00	H
ATOM	8102	CA	GLY	849	40.572	52.909	16.908	1.00	0.00	C
ATOM	8103	C	GLY	849	40.064	51.527	16.623	1.00	0.00	C
ATOM	8104	O	GLY	849	39.208	51.358	15.757	1.00	0.00	O
ATOM	8105	N	ILE	850	40.490	50.515	17.407	1.00	0.00	N
ATOM	8106	HN	ILE	850	41.046	50.716	18.238	1.00	0.00	H
ATOM	8107	CA	ILE	850	40.164	49.153	17.076	1.00	0.00	C
ATOM	8108	CB	ILE	850	40.741	48.157	18.045	1.00	0.00	C
ATOM	8109	CG1	ILE	850	40.522	46.721	17.538	1.00	0.00	C
ATOM	8110	CG2	ILE	850	40.173	48.440	19.443	1.00	0.00	C
ATOM	8111	CD1	ILE	850	41.358	45.676	18.279	1.00	0.00	C
ATOM	8112	C	ILE	850	38.682	49.009	17.033	1.00	0.00	C
ATOM	8113	O	ILE	850	38.138	48.417	16.102	1.00	0.00	O
ATOM	8114	N	THR	851	37.981	49.593	18.014	1.00	0.00	N
ATOM	8115	HN	THR	851	38.450	50.130	18.744	1.00	0.00	H
ATOM	8116	CA	THR	851	36.559	49.445	18.012	1.00	0.00	C
ATOM	8117	CB	THR	851	35.924	50.084	19.214	1.00	0.00	C
ATOM	8118	OG1	THR	851	34.526	49.889	19.153	1.00	0.00	O
ATOM	8119	HG1	THR	851	34.124	50.293	19.913	1.00	0.00	H
ATOM	8120	CG2	THR	851	36.239	51.587	19.269	1.00	0.00	C
ATOM	8121	C	THR	851	35.961	50.038	16.764	1.00	0.00	C
ATOM	8122	O	THR	851	35.301	49.338	15.999	1.00	0.00	O
ATOM	8123	N	PHE	852	36.265	51.314	16.459	1.00	0.00	N
ATOM	8124	HN	PHE	852	36.949	51.810	17.031	1.00	0.00	H
ATOM	8125	CA	PHE	852	35.652	52.001	15.347	1.00	0.00	C
ATOM	8126	CB	PHE	852	36.183	53.442	15.203	1.00	0.00	C
ATOM	8127	CG	PHE	852	35.772	54.032	13.892	1.00	0.00	C
ATOM	8128	CD1	PHE	852	34.463	53.996	13.468	1.00	0.00	C
ATOM	8129	CD2	PHE	852	36.720	54.584	13.059	1.00	0.00	C
ATOM	8130	CE1	PHE	852	34.105	54.539	12.255	1.00	0.00	C
ATOM	8131	CE2	PHE	852	36.370	55.130	11.846	1.00	0.00	C
ATOM	8132	CZ	PHE	852	35.056	55.112	11.442	1.00	0.00	C
ATOM	8133	C	PHE	852	35.877	51.220	14.093	1.00	0.00	C
ATOM	8134	O	PHE	852	34.946	50.998	13.321	1.00	0.00	O
ATOM	8135	N	SER	853	37.106	50.735	13.874	1.00	0.00	N
ATOM	8136	HN	SER	853	37.841	50.875	14.568	1.00	0.00	H
ATOM	8137	CA	SER	853	37.389	50.019	12.666	1.00	0.00	C

ATOM	8138	CB	SER	853	38.835	49.504	12.630	1.00	0.00	C
ATOM	8139	OG	SER	853	39.020	48.534	13.651	1.00	0.00	O
ATOM	8140	HG	SER	853	39.915	48.215	13.629	1.00	0.00	H
ATOM	8141	C	SER	853	36.497	48.822	12.583	1.00	0.00	C
ATOM	8142	O	SER	853	35.866	48.577	11.560	1.00	0.00	O
ATOM	8143	N	PHE	854	36.349	48.095	13.700	1.00	0.00	N
ATOM	8144	HN	PHE	854	36.784	48.428	14.560	1.00	0.00	H
ATOM	8145	CA	PHE	854	35.605	46.869	13.738	1.00	0.00	C
ATOM	8146	CB	PHE	854	35.489	46.319	15.171	1.00	0.00	C
ATOM	8147	CG	PHE	854	34.676	45.069	15.167	1.00	0.00	C
ATOM	8148	CD1	PHE	854	33.303	45.145	15.212	1.00	0.00	C
ATOM	8149	CD2	PHE	854	35.276	43.831	15.131	1.00	0.00	C
ATOM	8150	CE1	PHE	854	32.539	44.001	15.218	1.00	0.00	C
ATOM	8151	CE2	PHE	854	34.515	42.685	15.138	1.00	0.00	C
ATOM	8152	CZ	PHE	854	33.144	42.767	15.179	1.00	0.00	C
ATOM	8153	C	PHE	854	34.235	47.166	13.228	1.00	0.00	C
ATOM	8154	O	PHE	854	33.604	46.315	12.604	1.00	0.00	O
ATOM	8155	N	THR	855	33.724	48.381	13.494	1.00	0.00	N
ATOM	8156	HN	THR	855	34.260	49.073	14.018	1.00	0.00	H
ATOM	8157	CA	THR	855	32.405	48.675	13.020	1.00	0.00	C
ATOM	8158	CB	THR	855	31.835	49.985	13.520	1.00	0.00	C
ATOM	8159	OG1	THR	855	30.421	49.940	13.451	1.00	0.00	O
ATOM	8160	HG1	THR	855	30.128	49.216	13.991	1.00	0.00	H
ATOM	8161	CG2	THR	855	32.309	51.156	12.647	1.00	0.00	C
ATOM	8162	C	THR	855	32.404	48.670	11.517	1.00	0.00	C
ATOM	8163	O	THR	855	31.485	48.137	10.899	1.00	0.00	O
ATOM	8164	N	GLN	856	33.437	49.261	10.886	1.00	0.00	N
ATOM	8165	HN	GLN	856	34.180	49.670	11.453	1.00	0.00	H
ATOM	8166	CA	GLN	856	33.546	49.345	9.452	1.00	0.00	C
ATOM	8167	CB	GLN	856	34.652	50.305	9.001	1.00	0.00	C
ATOM	8168	CG	GLN	856	34.331	51.736	9.421	1.00	0.00	C
ATOM	8169	CD	GLN	856	32.885	51.997	9.018	1.00	0.00	C
ATOM	8170	OE1	GLN	856	31.950	51.563	9.692	1.00	0.00	O
ATOM	8171	NE2	GLN	856	32.693	52.719	7.882	1.00	0.00	N
ATOM	8172	1HE2	GLN	856	33.467	53.078	7.324	1.00	0.00	H
ATOM	8173	2HE2	GLN	856	31.725	52.894	7.612	1.00	0.00	H
ATOM	8174	C	GLN	856	33.800	47.992	8.864	1.00	0.00	C
ATOM	8175	O	GLN	856	33.383	47.698	7.745	1.00	0.00	O
ATOM	8176	N	ALA	857	34.528	47.129	9.585	1.00	0.00	N
ATOM	8177	HN	ALA	857	34.912	47.408	10.488	1.00	0.00	H
ATOM	8178	CA	ALA	857	34.761	45.813	9.076	1.00	0.00	C
ATOM	8179	CB	ALA	857	35.548	44.925	10.055	1.00	0.00	C
ATOM	8180	C	ALA	857	33.404	45.220	8.929	1.00	0.00	C
ATOM	8181	O	ALA	857	33.111	44.528	7.958	1.00	0.00	O
ATOM	8182	N	MET	858	32.510	45.532	9.878	1.00	0.00	N
ATOM	8183	HN	MET	858	32.772	46.151	10.646	1.00	0.00	H
ATOM	8184	CA	MET	858	31.189	44.994	9.809	1.00	0.00	C
ATOM	8185	CB	MET	858	30.277	45.461	10.958	1.00	0.00	C
ATOM	8186	CG	MET	858	30.752	44.961	12.326	1.00	0.00	C
ATOM	8187	SD	MET	858	30.656	43.161	12.569	1.00	0.00	S
ATOM	8188	CE	MET	858	29.031	43.191	13.381	1.00	0.00	C
ATOM	8189	C	MET	858	30.614	45.469	8.515	1.00	0.00	C
ATOM	8190	O	MET	858	29.865	44.746	7.863	1.00	0.00	O
ATOM	8191	N	MET	859	30.992	46.687	8.085	1.00	0.00	N
ATOM	8192	HN	MET	859	31.655	47.239	8.629	1.00	0.00	H
ATOM	8193	CA	MET	859	30.459	47.206	6.857	1.00	0.00	C
ATOM	8194	CB	MET	859	31.129	48.528	6.458	1.00	0.00	C
ATOM	8195	CG	MET	859	31.004	48.894	4.981	1.00	0.00	C
ATOM	8196	SD	MET	859	32.295	50.065	4.462	1.00	0.00	S
ATOM	8197	CE	MET	859	31.886	50.073	2.695	1.00	0.00	C
ATOM	8198	C	MET	859	30.700	46.250	5.727	1.00	0.00	C
ATOM	8199	O	MET	859	29.743	45.802	5.096	1.00	0.00	O
ATOM	8200	N	TYR	860	31.967	45.863	5.468	1.00	0.00	N
ATOM	8201	HN	TYR	860	32.732	46.170	6.068	1.00	0.00	H
ATOM	8202	CA	TYR	860	32.227	45.014	4.338	1.00	0.00	C
ATOM	8203	CB	TYR	860	33.713	44.877	3.951	1.00	0.00	C
ATOM	8204	CG	TYR	860	34.468	44.001	4.892	1.00	0.00	C
ATOM	8205	CD1	TYR	860	35.038	44.506	6.036	1.00	0.00	C
ATOM	8206	CD2	TYR	860	34.622	42.664	4.608	1.00	0.00	C
ATOM	8207	CE1	TYR	860	35.747	43.690	6.886	1.00	0.00	C
ATOM	8208	CE2	TYR	860	35.330	41.841	5.452	1.00	0.00	C
ATOM	8209	CZ	TYR	860	35.892	42.356	6.595	1.00	0.00	C
ATOM	8210	OH	TYR	860	36.621	41.519	7.463	1.00	0.00	O
ATOM	8211	HH	TYR	860	37.010	41.875	8.253	1.00	0.00	H

ATOM	8212	C	TYR	860	31.676	43.649	4.575	1.00	0.00	C
ATOM	8213	O	TYR	860	31.070	43.079	3.668	1.00	0.00	O
ATOM	8214	N	PHE	861	31.835	43.110	5.808	1.00	0.00	N
ATOM	8215	HN	PHE	861	32.276	43.661	6.544	1.00	0.00	H
ATOM	8216	CA	PHE	861	31.391	41.771	6.095	1.00	0.00	C
ATOM	8217	CB	PHE	861	31.328	41.376	7.589	1.00	0.00	C
ATOM	8218	CG	PHE	861	32.633	41.072	8.246	1.00	0.00	C
ATOM	8219	CD1	PHE	861	33.194	39.823	8.128	1.00	0.00	C
ATOM	8220	CD2	PHE	861	33.283	42.014	9.005	1.00	0.00	C
ATOM	8221	CE1	PHE	861	34.388	39.529	8.745	1.00	0.00	C
ATOM	8222	CE2	PHE	861	34.474	41.732	9.626	1.00	0.00	C
ATOM	8223	CZ	PHE	861	35.031	40.484	9.496	1.00	0.00	C
ATOM	8224	C	PHE	861	29.954	41.704	5.727	1.00	0.00	C
ATOM	8225	O	PHE	861	29.539	40.823	4.976	1.00	0.00	O
ATOM	8226	N	SER	862	29.173	42.683	6.214	1.00	0.00	N
ATOM	8227	HN	SER	862	29.586	43.452	6.741	1.00	0.00	H
ATOM	8228	CA	SER	862	27.766	42.644	5.992	1.00	0.00	C
ATOM	8229	CB	SER	862	27.001	43.809	6.657	1.00	0.00	C
ATOM	8230	OG	SER	862	27.423	45.065	6.152	1.00	0.00	O
ATOM	8231	HG	SER	862	26.952	45.782	6.561	1.00	0.00	H
ATOM	8232	C	SER	862	27.477	42.613	4.522	1.00	0.00	C
ATOM	8233	O	SER	862	26.896	41.646	4.040	1.00	0.00	O
ATOM	8234	N	TYR	863	27.941	43.609	3.740	1.00	0.00	N
ATOM	8235	HN	TYR	863	28.556	44.327	4.123	1.00	0.00	H
ATOM	8236	CA	TYR	863	27.551	43.639	2.353	1.00	0.00	C
ATOM	8237	CB	TYR	863	28.180	44.782	1.530	1.00	0.00	C
ATOM	8238	CG	TYR	863	27.498	46.083	1.787	1.00	0.00	C
ATOM	8239	CD1	TYR	863	27.869	46.893	2.834	1.00	0.00	C
ATOM	8240	CD2	TYR	863	26.483	46.497	0.954	1.00	0.00	C
ATOM	8241	CE1	TYR	863	27.233	48.093	3.046	1.00	0.00	C
ATOM	8242	CE2	TYR	863	25.843	47.695	1.160	1.00	0.00	C
ATOM	8243	CZ	TYR	863	26.218	48.497	2.210	1.00	0.00	C
ATOM	8244	OH	TYR	863	25.566	49.730	2.427	1.00	0.00	O
ATOM	8245	HH	TYR	863	25.825	50.285	3.153	1.00	0.00	H
ATOM	8246	C	TYR	863	27.964	42.391	1.634	1.00	0.00	C
ATOM	8247	O	TYR	863	27.134	41.746	0.996	1.00	0.00	O
ATOM	8248	N	ALA	864	29.238	41.983	1.770	1.00	0.00	N
ATOM	8249	HN	ALA	864	29.847	42.447	2.444	1.00	0.00	H
ATOM	8250	CA	ALA	864	29.750	40.903	0.979	1.00	0.00	C
ATOM	8251	CB	ALA	864	31.185	40.539	1.354	1.00	0.00	C
ATOM	8252	C	ALA	864	28.972	39.659	1.212	1.00	0.00	C
ATOM	8253	O	ALA	864	28.513	39.024	0.264	1.00	0.00	O
ATOM	8254	N	GLY	865	28.763	39.302	2.487	1.00	0.00	N
ATOM	8255	HN	GLY	865	29.068	39.905	3.251	1.00	0.00	H
ATOM	8256	CA	GLY	865	28.106	38.062	2.759	1.00	0.00	C
ATOM	8257	C	GLY	865	26.751	38.138	2.150	1.00	0.00	C
ATOM	8258	O	GLY	865	26.286	37.181	1.533	1.00	0.00	O
ATOM	8259	N	CYS	866	26.103	39.309	2.277	1.00	0.00	N
ATOM	8260	HN	CYS	866	26.568	40.105	2.714	1.00	0.00	H
ATOM	8261	CA	CYS	866	24.763	39.437	1.799	1.00	0.00	C
ATOM	8262	CB	CYS	866	24.201	40.857	1.973	1.00	0.00	C
ATOM	8263	SG	CYS	866	24.054	41.363	3.711	1.00	0.00	S
ATOM	8264	C	CYS	866	24.691	39.142	0.332	1.00	0.00	C
ATOM	8265	O	CYS	866	24.070	38.167	-0.085	1.00	0.00	O
ATOM	8266	N	PHE	867	25.406	39.924	-0.492	1.00	0.00	N
ATOM	8267	HN	PHE	867	26.033	40.628	-0.102	1.00	0.00	H
ATOM	8268	CA	PHE	867	25.298	39.780	-1.916	1.00	0.00	C
ATOM	8269	CB	PHE	867	26.186	40.766	-2.697	1.00	0.00	C
ATOM	8270	CG	PHE	867	25.555	42.116	-2.651	1.00	0.00	C
ATOM	8271	CD1	PHE	867	24.646	42.485	-3.617	1.00	0.00	C
ATOM	8272	CD2	PHE	867	25.864	43.011	-1.654	1.00	0.00	C
ATOM	8273	CE1	PHE	867	24.054	43.725	-3.594	1.00	0.00	C
ATOM	8274	CE2	PHE	867	25.274	44.253	-1.626	1.00	0.00	C
ATOM	8275	CZ	PHE	867	24.369	44.614	-2.596	1.00	0.00	C
ATOM	8276	C	PHE	867	25.719	38.402	-2.307	1.00	0.00	C
ATOM	8277	O	PHE	867	25.133	37.799	-3.204	1.00	0.00	O
ATOM	8278	N	ARG	868	26.781	37.876	-1.675	1.00	0.00	N
ATOM	8279	HN	ARG	868	27.242	38.385	-0.921	1.00	0.00	H
ATOM	8280	CA	ARG	868	27.253	36.587	-2.080	1.00	0.00	C
ATOM	8281	CB	ARG	868	28.562	36.190	-1.373	1.00	0.00	C
ATOM	8282	CG	ARG	868	29.369	35.109	-2.103	1.00	0.00	C
ATOM	8283	CD	ARG	868	28.545	33.882	-2.489	1.00	0.00	C
ATOM	8284	NE	ARG	868	27.966	33.336	-1.232	1.00	0.00	N
ATOM	8285	HE	ARG	868	27.284	33.882	-0.705	1.00	0.00	H



ATOM	8286	CZ	ARG	868	28.346	32.106	-0.784	1.00	0.00	C
ATOM	8287	NH1	ARG	868	29.207	31.351	-1.525	1.00	0.00	N
ATOM	8288	1HH1	ARG	868	29.573	31.707	-2.408	1.00	0.00	H
ATOM	8289	2HH1	ARG	868	29.491	30.431	-1.190	1.00	0.00	H
ATOM	8290	NH2	ARG	868	27.856	31.629	0.398	1.00	0.00	N
ATOM	8291	1HH2	ARG	868	27.212	32.194	0.952	1.00	0.00	H
ATOM	8292	2HH2	ARG	868	28.140	30.709	0.733	1.00	0.00	H
ATOM	8293	C	ARG	868	26.215	35.541	-1.785	1.00	0.00	C
ATOM	8294	O	ARG	868	25.842	34.756	-2.656	1.00	0.00	O
ATOM	8295	N	PHE	869	25.677	35.543	-0.551	1.00	0.00	N
ATOM	8296	HN	PHE	869	25.931	36.285	0.101	1.00	0.00	H
ATOM	8297	CA	PHE	869	24.756	34.528	-0.130	1.00	0.00	C
ATOM	8298	CB	PHE	869	24.325	34.709	1.333	1.00	0.00	C
ATOM	8299	CG	PHE	869	23.496	33.531	1.697	1.00	0.00	C
ATOM	8300	CD1	PHE	869	24.091	32.402	2.207	1.00	0.00	C
ATOM	8301	CD2	PHE	869	22.131	33.551	1.529	1.00	0.00	C
ATOM	8302	CE1	PHE	869	23.336	31.305	2.548	1.00	0.00	C
ATOM	8303	CE2	PHE	869	21.370	32.458	1.869	1.00	0.00	C
ATOM	8304	CZ	PHE	869	21.973	31.333	2.378	1.00	0.00	C
ATOM	8305	C	PHE	869	23.537	34.598	-0.982	1.00	0.00	C
ATOM	8306	O	PHE	869	23.056	33.576	-1.470	1.00	0.00	O
ATOM	8307	N	GLY	870	23.022	35.819	-1.213	1.00	0.00	N
ATOM	8308	HN	GLY	870	23.491	36.652	-0.858	1.00	0.00	H
ATOM	8309	CA	GLY	870	21.809	35.937	-1.962	1.00	0.00	C
ATOM	8310	C	GLY	870	22.005	35.333	-3.317	1.00	0.00	C
ATOM	8311	O	GLY	870	21.244	34.464	-3.727	1.00	0.00	O
ATOM	8312	N	ALA	871	23.112	35.677	-3.991	1.00	0.00	N
ATOM	8313	HN	ALA	871	23.816	36.238	-3.511	1.00	0.00	H
ATOM	8314	CA	ALA	871	23.358	35.297	-5.353	1.00	0.00	C
ATOM	8315	CB	ALA	871	24.757	35.702	-5.852	1.00	0.00	C
ATOM	8316	C	ALA	871	23.272	33.819	-5.450	1.00	0.00	C
ATOM	8317	O	ALA	871	22.876	33.308	-6.497	1.00	0.00	O
ATOM	8318	N	TYR	872	23.644	33.129	-4.351	1.00	0.00	N
ATOM	8319	HN	TYR	872	23.886	33.673	-3.522	1.00	0.00	H
ATOM	8320	CA	TYR	872	23.731	31.697	-4.241	1.00	0.00	C
ATOM	8321	CB	TYR	872	23.487	31.155	-2.822	1.00	0.00	C
ATOM	8322	CG	TYR	872	23.508	29.669	-2.950	1.00	0.00	C
ATOM	8323	CD1	TYR	872	24.701	28.989	-3.057	1.00	0.00	C
ATOM	8324	CD2	TYR	872	22.333	28.953	-2.967	1.00	0.00	C
ATOM	8325	CE1	TYR	872	24.719	27.620	-3.180	1.00	0.00	C
ATOM	8326	CE2	TYR	872	22.345	27.583	-3.090	1.00	0.00	C
ATOM	8327	CZ	TYR	872	23.540	26.914	-3.197	1.00	0.00	C
ATOM	8328	OH	TYR	872	23.553	25.508	-3.324	1.00	0.00	O
ATOM	8329	HH	TYR	872	22.738	25.020	-3.336	1.00	0.00	H
ATOM	8330	C	TYR	872	22.793	30.967	-5.163	1.00	0.00	C
ATOM	8331	O	TYR	872	21.596	31.238	-5.206	1.00	0.00	O
ATOM	8332	N	LEU	873	23.371	29.981	-5.882	1.00	0.00	N
ATOM	8333	HN	LEU	873	24.376	29.894	-5.731	1.00	0.00	H
ATOM	8334	CA	LEU	873	22.835	29.023	-6.827	1.00	0.00	C
ATOM	8335	CB	LEU	873	22.014	27.920	-6.119	1.00	0.00	C
ATOM	8336	CG	LEU	873	21.723	26.618	-6.908	1.00	0.00	C
ATOM	8337	CD1	LEU	873	20.900	25.658	-6.036	1.00	0.00	C
ATOM	8338	CD2	LEU	873	21.064	26.822	-8.281	1.00	0.00	C
ATOM	8339	C	LEU	873	22.060	29.562	-8.007	1.00	0.00	C
ATOM	8340	O	LEU	873	20.833	29.545	-8.036	1.00	0.00	O
ATOM	8341	N	VAL	874	22.797	30.130	-8.981	1.00	0.00	N
ATOM	8342	HN	VAL	874	23.788	30.247	-8.770	1.00	0.00	H
ATOM	8343	CA	VAL	874	22.381	30.596	-10.280	1.00	0.00	C
ATOM	8344	CB	VAL	874	23.167	31.770	-10.769	1.00	0.00	C
ATOM	8345	CG1	VAL	874	23.079	32.896	-9.723	1.00	0.00	C
ATOM	8346	CG2	VAL	874	24.582	31.306	-11.106	1.00	0.00	C
ATOM	8347	C	VAL	874	22.446	29.521	-11.347	1.00	0.00	C
ATOM	8348	O	VAL	874	22.387	29.851	-12.533	1.00	0.00	O
ATOM	8349	N	ALA	875	22.746	28.249	-11.007	1.00	0.00	N
ATOM	8350	HN	ALA	875	22.825	27.982	-10.026	1.00	0.00	H
ATOM	8351	CA	ALA	875	22.953	27.271	-12.050	1.00	0.00	C
ATOM	8352	CB	ALA	875	23.573	25.958	-11.544	1.00	0.00	C
ATOM	8353	C	ALA	875	21.689	26.932	-12.800	1.00	0.00	C
ATOM	8354	O	ALA	875	20.803	26.238	-12.308	1.00	0.00	O
ATOM	8355	N	HIS	876	21.648	27.328	-14.088	1.00	0.00	N
ATOM	8356	HN	HIS	876	22.455	27.841	-14.443	1.00	0.00	H
ATOM	8357	CA	HIS	876	20.563	27.089	-15.007	1.00	0.00	C
ATOM	8358	ND1	HIS	876	19.552	25.213	-17.511	1.00	0.00	N
ATOM	8359	HD1	HIS	876	20.448	25.448	-17.938	1.00	0.00	H

ATOM	8360	CG	HIS	876	19.255	25.217	-16.167	1.00	0.00	C
ATOM	8361	CB	HIS	876	20.230	25.584	-15.088	1.00	0.00	C
ATOM	8362	NE2	HIS	876	17.422	24.596	-17.327	1.00	0.00	N
ATOM	8363	HE2	HIS	876	16.474	24.300	-17.558	1.00	0.00	H
ATOM	8364	CD2	HIS	876	17.952	24.838	-16.073	1.00	0.00	C
ATOM	8365	CE1	HIS	876	18.421	24.835	-18.158	1.00	0.00	C
ATOM	8366	C	HIS	876	19.313	27.867	-14.658	1.00	0.00	C
ATOM	8367	O	HIS	876	18.242	27.613	-15.207	1.00	0.00	O
ATOM	8368	N	LYS	877	19.434	28.903	-13.806	1.00	0.00	N
ATOM	8369	HN	LYS	877	20.349	29.083	-13.392	1.00	0.00	H
ATOM	8370	CA	LYS	877	18.338	29.773	-13.447	1.00	0.00	C
ATOM	8371	CB	LYS	877	17.415	30.160	-14.612	1.00	0.00	C
ATOM	8372	CG	LYS	877	16.132	30.808	-14.099	1.00	0.00	C
ATOM	8373	CD	LYS	877	16.371	32.112	-13.337	1.00	0.00	C
ATOM	8374	CE	LYS	877	15.226	32.495	-12.398	1.00	0.00	C
ATOM	8375	NZ	LYS	877	13.925	32.352	-13.084	1.00	0.00	N
ATOM	8376	HZ1	LYS	877	13.161	32.607	-12.458	1.00	0.00	H
ATOM	8377	HZ2	LYS	877	13.801	31.417	-13.471	1.00	0.00	H
ATOM	8378	HZ3	LYS	877	13.895	32.882	-13.955	1.00	0.00	H
ATOM	8379	C	LYS	877	17.488	29.184	-12.360	1.00	0.00	C
ATOM	8380	O	LYS	877	16.578	28.398	-12.617	1.00	0.00	O
ATOM	8381	N	LEU	878	17.735	29.641	-11.112	1.00	0.00	N
ATOM	8382	HN	LEU	878	18.436	30.376	-11.019	1.00	0.00	H
ATOM	8383	CA	LEU	878	17.103	29.188	-9.905	1.00	0.00	C
ATOM	8384	CB	LEU	878	18.153	28.458	-9.018	1.00	0.00	C
ATOM	8385	CG	LEU	878	17.742	27.869	-7.648	1.00	0.00	C
ATOM	8386	CD1	LEU	878	17.905	28.867	-6.488	1.00	0.00	C
ATOM	8387	CD2	LEU	878	16.332	27.256	-7.715	1.00	0.00	C
ATOM	8388	C	LEU	878	16.494	30.392	-9.226	1.00	0.00	C
ATOM	8389	O	LEU	878	16.545	31.506	-9.746	1.00	0.00	O
ATOM	8390	N	MET	879	15.968	30.202	-8.002	1.00	0.00	N
ATOM	8391	HN	MET	879	16.116	29.283	-7.585	1.00	0.00	H
ATOM	8392	CA	MET	879	15.223	31.144	-7.215	1.00	0.00	C
ATOM	8393	CB	MET	879	14.820	30.590	-5.840	1.00	0.00	C
ATOM	8394	CG	MET	879	13.884	29.382	-5.937	1.00	0.00	C
ATOM	8395	SD	MET	879	12.293	29.711	-6.757	1.00	0.00	S
ATOM	8396	CE	MET	879	12.938	29.752	-8.457	1.00	0.00	C
ATOM	8397	C	MET	879	16.057	32.364	-7.009	1.00	0.00	C
ATOM	8398	O	MET	879	15.554	33.388	-6.549	1.00	0.00	O
ATOM	8399	N	SER	880	17.376	32.248	-7.230	1.00	0.00	N
ATOM	8400	HN	SER	880	17.758	31.337	-7.484	1.00	0.00	H
ATOM	8401	CA	SER	880	18.265	33.373	-7.118	1.00	0.00	C
ATOM	8402	CB	SER	880	19.737	32.945	-6.982	1.00	0.00	C
ATOM	8403	OG	SER	880	20.155	32.260	-8.154	1.00	0.00	O
ATOM	8404	HG	SER	880	21.064	31.996	-8.070	1.00	0.00	H
ATOM	8405	C	SER	880	18.169	34.237	-8.351	1.00	0.00	C
ATOM	8406	O	SER	880	18.472	33.790	-9.459	1.00	0.00	O
ATOM	8407	N	PHE	881	17.772	35.523	-8.168	1.00	0.00	N
ATOM	8408	HN	PHE	881	17.578	35.844	-7.220	1.00	0.00	H
ATOM	8409	CA	PHE	881	17.614	36.451	-9.257	1.00	0.00	C
ATOM	8410	CB	PHE	881	16.360	36.157	-10.117	1.00	0.00	C
ATOM	8411	CG	PHE	881	15.109	36.351	-9.321	1.00	0.00	C
ATOM	8412	CD1	PHE	881	14.827	35.530	-8.255	1.00	0.00	C
ATOM	8413	CD2	PHE	881	14.225	37.366	-9.618	1.00	0.00	C
ATOM	8414	CE1	PHE	881	13.682	35.706	-7.514	1.00	0.00	C
ATOM	8415	CE2	PHE	881	13.078	37.549	-8.883	1.00	0.00	C
ATOM	8416	CZ	PHE	881	12.803	36.715	-7.827	1.00	0.00	C
ATOM	8417	C	PHE	881	17.527	37.856	-8.692	1.00	0.00	C
ATOM	8418	O	PHE	881	18.185	38.197	-7.712	1.00	0.00	O
ATOM	8419	N	GLU	882	16.678	38.703	-9.310	1.00	0.00	N
ATOM	8420	HN	GLU	882	16.105	38.305	-10.054	1.00	0.00	H
ATOM	8421	CA	GLU	882	16.487	40.109	-9.039	1.00	0.00	C
ATOM	8422	CB	GLU	882	15.397	40.718	-9.943	1.00	0.00	C
ATOM	8423	CG	GLU	882	15.026	42.171	-9.635	1.00	0.00	C
ATOM	8424	CD	GLU	882	13.947	42.165	-8.557	1.00	0.00	C
ATOM	8425	OE1	GLU	882	12.911	41.478	-8.755	1.00	0.00	O
ATOM	8426	OE2	GLU	882	14.163	42.826	-7.506	1.00	0.00	O
ATOM	8427	C	GLU	882	16.103	40.432	-7.613	1.00	0.00	C
ATOM	8428	O	GLU	882	16.530	41.463	-7.097	1.00	0.00	O
ATOM	8429	N	ASP	883	15.348	39.563	-6.916	1.00	0.00	N
ATOM	8430	HN	ASP	883	15.183	38.648	-7.336	1.00	0.00	H
ATOM	8431	CA	ASP	883	14.749	39.814	-5.620	1.00	0.00	C
ATOM	8432	CB	ASP	883	14.203	38.527	-4.971	1.00	0.00	C
ATOM	8433	CG	ASP	883	15.339	37.521	-4.785	1.00	0.00	C

ATOM	8434	OD1	ASP	883	16.215	37.424	-5.686	1.00	0.00	O
ATOM	8435	OD2	ASP	883	15.333	36.819	-3.739	1.00	0.00	O
ATOM	8436	C	ASP	883	15.746	40.424	-4.680	1.00	0.00	C
ATOM	8437	O	ASP	883	15.367	41.153	-3.762	1.00	0.00	O
ATOM	8438	N	VAL	884	17.045	40.176	-4.907	1.00	0.00	N
ATOM	8439	HN	VAL	884	17.297	39.572	-5.690	1.00	0.00	H
ATOM	8440	CA	VAL	884	18.094	40.723	-4.097	1.00	0.00	C
ATOM	8441	CB	VAL	884	19.448	40.534	-4.720	1.00	0.00	C
ATOM	8442	CG1	VAL	884	19.786	39.035	-4.735	1.00	0.00	C
ATOM	8443	CG2	VAL	884	19.421	41.159	-6.128	1.00	0.00	C
ATOM	8444	C	VAL	884	17.876	42.209	-3.966	1.00	0.00	C
ATOM	8445	O	VAL	884	18.302	42.825	-2.994	1.00	0.00	O
ATOM	8446	N	LEU	885	17.232	42.862	-4.943	1.00	0.00	N
ATOM	8447	HN	LEU	885	16.889	42.373	-5.770	1.00	0.00	H
ATOM	8448	CA	LEU	885	17.043	44.279	-4.781	1.00	0.00	C
ATOM	8449	CB	LEU	885	16.453	44.980	-6.007	1.00	0.00	C
ATOM	8450	CG	LEU	885	17.445	44.952	-7.176	1.00	0.00	C
ATOM	8451	CD1	LEU	885	17.045	45.948	-8.269	1.00	0.00	C
ATOM	8452	CD2	LEU	885	18.886	45.121	-6.675	1.00	0.00	C
ATOM	8453	C	LEU	885	16.176	44.576	-3.593	1.00	0.00	C
ATOM	8454	O	LEU	885	16.358	45.596	-2.929	1.00	0.00	O
ATOM	8455	N	LEU	886	15.172	43.728	-3.315	1.00	0.00	N
ATOM	8456	HN	LEU	886	14.985	42.935	-3.929	1.00	0.00	H
ATOM	8457	CA	LEU	886	14.365	43.944	-2.151	1.00	0.00	C
ATOM	8458	CB	LEU	886	13.089	43.093	-2.122	1.00	0.00	C
ATOM	8459	CG	LEU	886	12.095	43.565	-3.200	1.00	0.00	C
ATOM	8460	CD1	LEU	886	12.619	43.288	-4.616	1.00	0.00	C
ATOM	8461	CD2	LEU	886	10.690	43.012	-2.959	1.00	0.00	C
ATOM	8462	C	LEU	886	15.212	43.700	-0.941	1.00	0.00	C
ATOM	8463	O	LEU	886	14.955	44.251	0.128	1.00	0.00	O
ATOM	8464	N	VAL	887	16.240	42.837	-1.048	1.00	0.00	N
ATOM	8465	HN	VAL	887	16.445	42.342	-1.916	1.00	0.00	H
ATOM	8466	CA	VAL	887	17.030	42.658	0.139	1.00	0.00	C
ATOM	8467	CB	VAL	887	18.099	41.591	0.088	1.00	0.00	C
ATOM	8468	CG1	VAL	887	17.468	40.301	-0.456	1.00	0.00	C
ATOM	8469	CG2	VAL	887	19.371	42.085	-0.604	1.00	0.00	C
ATOM	8470	C	VAL	887	17.662	43.987	0.455	1.00	0.00	C
ATOM	8471	O	VAL	887	17.775	44.383	1.615	1.00	0.00	O
ATOM	8472	N	PHE	888	18.033	44.743	-0.593	1.00	0.00	N
ATOM	8473	HN	PHE	888	17.895	44.374	-1.534	1.00	0.00	H
ATOM	8474	CA	PHE	888	18.616	46.050	-0.444	1.00	0.00	C
ATOM	8475	CB	PHE	888	18.779	46.716	-1.829	1.00	0.00	C
ATOM	8476	CG	PHE	888	19.219	48.137	-1.719	1.00	0.00	C
ATOM	8477	CD1	PHE	888	18.293	49.145	-1.566	1.00	0.00	C
ATOM	8478	CD2	PHE	888	20.553	48.466	-1.794	1.00	0.00	C
ATOM	8479	CE1	PHE	888	18.692	50.457	-1.477	1.00	0.00	C
ATOM	8480	CE2	PHE	888	20.959	49.777	-1.704	1.00	0.00	C
ATOM	8481	CZ	PHE	888	20.027	50.775	-1.544	1.00	0.00	C
ATOM	8482	C	PHE	888	17.627	46.844	0.355	1.00	0.00	C
ATOM	8483	O	PHE	888	17.985	47.644	1.220	1.00	0.00	O
ATOM	8484	N	SER	889	16.334	46.617	0.087	1.00	0.00	N
ATOM	8485	HN	SER	889	16.088	45.914	-0.610	1.00	0.00	H
ATOM	8486	CA	SER	889	15.288	47.333	0.751	1.00	0.00	C
ATOM	8487	CB	SER	889	13.907	46.773	0.377	1.00	0.00	C
ATOM	8488	OG	SER	889	13.716	46.844	-1.030	1.00	0.00	O
ATOM	8489	HG	SER	889	12.862	46.498	-1.261	1.00	0.00	H
ATOM	8490	C	SER	889	15.407	47.194	2.251	1.00	0.00	C
ATOM	8491	O	SER	889	15.350	48.185	2.977	1.00	0.00	O
ATOM	8492	N	ALA	890	15.547	45.951	2.754	1.00	0.00	N
ATOM	8493	HN	ALA	890	15.612	45.174	2.096	1.00	0.00	H
ATOM	8494	CA	ALA	890	15.611	45.648	4.166	1.00	0.00	C
ATOM	8495	CB	ALA	890	15.581	44.132	4.436	1.00	0.00	C
ATOM	8496	C	ALA	890	16.853	46.193	4.811	1.00	0.00	C
ATOM	8497	O	ALA	890	16.827	46.606	5.972	1.00	0.00	O
ATOM	8498	N	VAL	891	18.000	46.146	4.108	1.00	0.00	N
ATOM	8499	HN	VAL	891	18.007	45.776	3.157	1.00	0.00	H
ATOM	8500	CA	VAL	891	19.215	46.622	4.710	1.00	0.00	C
ATOM	8501	CB	VAL	891	20.444	46.335	3.879	1.00	0.00	C
ATOM	8502	CG1	VAL	891	20.324	47.029	2.514	1.00	0.00	C
ATOM	8503	CG2	VAL	891	21.689	46.755	4.680	1.00	0.00	C
ATOM	8504	C	VAL	891	19.079	48.095	4.912	1.00	0.00	C
ATOM	8505	O	VAL	891	19.370	48.636	5.979	1.00	0.00	O
ATOM	8506	N	VAL	892	18.564	48.764	3.870	1.00	0.00	N
ATOM	8507	HN	VAL	892	18.320	48.227	3.038	1.00	0.00	H

ATOM	8508	CA	VAL	892	18.333	50.169	3.841	1.00	0.00	C
ATOM	8509	CB	VAL	892	17.762	50.579	2.521	1.00	0.00	C
ATOM	8510	CG1	VAL	892	17.265	52.023	2.609	1.00	0.00	C
ATOM	8511	CG2	VAL	892	18.854	50.369	1.464	1.00	0.00	C
ATOM	8512	C	VAL	892	17.333	50.469	4.908	1.00	0.00	C
ATOM	8513	O	VAL	892	17.287	51.573	5.451	1.00	0.00	O
ATOM	8514	N	PHE	893	16.463	49.495	5.215	1.00	0.00	N
ATOM	8515	HN	PHE	893	16.495	48.585	4.756	1.00	0.00	H
ATOM	8516	CA	PHE	893	15.489	49.795	6.216	1.00	0.00	C
ATOM	8517	CB	PHE	893	14.428	48.700	6.460	1.00	0.00	C
ATOM	8518	CG	PHE	893	13.613	48.505	5.222	1.00	0.00	C
ATOM	8519	CD1	PHE	893	13.154	49.577	4.492	1.00	0.00	C
ATOM	8520	CD2	PHE	893	13.242	47.240	4.829	1.00	0.00	C
ATOM	8521	CE1	PHE	893	12.395	49.373	3.361	1.00	0.00	C
ATOM	8522	CE2	PHE	893	12.482	47.029	3.702	1.00	0.00	C
ATOM	8523	CZ	PHE	893	12.060	48.102	2.958	1.00	0.00	C
ATOM	8524	C	PHE	893	16.171	50.078	7.523	1.00	0.00	C
ATOM	8525	O	PHE	893	15.911	51.104	8.154	1.00	0.00	O
ATOM	8526	N	GLY	894	17.110	49.207	7.941	1.00	0.00	N
ATOM	8527	HN	GLY	894	17.390	48.437	7.333	1.00	0.00	H
ATOM	8528	CA	GLY	894	17.723	49.350	9.235	1.00	0.00	C
ATOM	8529	C	GLY	894	18.345	50.709	9.300	1.00	0.00	C
ATOM	8530	O	GLY	894	18.255	51.417	10.306	1.00	0.00	O
ATOM	8531	N	ALA	895	18.949	51.122	8.180	1.00	0.00	N
ATOM	8532	HN	ALA	895	18.947	50.515	7.360	1.00	0.00	H
ATOM	8533	CA	ALA	895	19.596	52.391	8.106	1.00	0.00	C
ATOM	8534	CB	ALA	895	20.228	52.647	6.725	1.00	0.00	C
ATOM	8535	C	ALA	895	18.588	53.478	8.352	1.00	0.00	C
ATOM	8536	O	ALA	895	18.895	54.483	8.991	1.00	0.00	O
ATOM	8537	N	MET	896	17.346	53.312	7.863	1.00	0.00	N
ATOM	8538	HN	MET	896	17.089	52.432	7.417	1.00	0.00	H
ATOM	8539	CA	MET	896	16.378	54.374	7.968	1.00	0.00	C
ATOM	8540	CB	MET	896	15.027	54.020	7.305	1.00	0.00	C
ATOM	8541	CG	MET	896	14.110	53.164	8.183	1.00	0.00	C
ATOM	8542	SD	MET	896	12.861	52.182	7.302	1.00	0.00	S
ATOM	8543	CE	MET	896	11.803	53.592	6.882	1.00	0.00	C
ATOM	8544	C	MET	896	16.113	54.718	9.413	1.00	0.00	C
ATOM	8545	O	MET	896	16.093	55.890	9.794	1.00	0.00	O
ATOM	8546	N	ALA	897	15.929	53.694	10.265	1.00	0.00	N
ATOM	8547	HN	ALA	897	16.022	52.742	9.910	1.00	0.00	H
ATOM	8548	CA	ALA	897	15.607	53.879	11.652	1.00	0.00	C
ATOM	8549	CB	ALA	897	15.331	52.555	12.384	1.00	0.00	C
ATOM	8550	C	ALA	897	16.737	54.554	12.347	1.00	0.00	C
ATOM	8551	O	ALA	897	16.529	55.336	13.275	1.00	0.00	O
ATOM	8552	N	VAL	898	17.975	54.262	11.917	1.00	0.00	N
ATOM	8553	HN	VAL	898	18.112	53.654	11.109	1.00	0.00	H
ATOM	8554	CA	VAL	898	19.100	54.816	12.608	1.00	0.00	C
ATOM	8555	CB	VAL	898	20.436	54.439	12.028	1.00	0.00	C
ATOM	8556	CG1	VAL	898	20.743	55.336	10.822	1.00	0.00	C
ATOM	8557	CG2	VAL	898	21.487	54.526	13.143	1.00	0.00	C
ATOM	8558	C	VAL	898	18.973	56.305	12.549	1.00	0.00	C
ATOM	8559	O	VAL	898	19.317	57.018	13.492	1.00	0.00	O
ATOM	8560	N	GLY	899	18.416	56.812	11.437	1.00	0.00	N
ATOM	8561	HN	GLY	899	18.075	56.188	10.706	1.00	0.00	H
ATOM	8562	CA	GLY	899	18.303	58.229	11.282	1.00	0.00	C
ATOM	8563	C	GLY	899	17.497	58.779	12.425	1.00	0.00	C
ATOM	8564	O	GLY	899	17.810	59.840	12.966	1.00	0.00	O
ATOM	8565	N	GLN	900	16.439	58.056	12.833	1.00	0.00	N
ATOM	8566	HN	GLN	900	16.304	57.123	12.443	1.00	0.00	H
ATOM	8567	CA	GLN	900	15.488	58.547	13.800	1.00	0.00	C
ATOM	8568	CB	GLN	900	14.352	57.535	14.011	1.00	0.00	C
ATOM	8569	CG	GLN	900	13.557	57.236	12.740	1.00	0.00	C
ATOM	8570	CD	GLN	900	12.541	58.348	12.557	1.00	0.00	C
ATOM	8571	OE1	GLN	900	11.375	58.192	12.913	1.00	0.00	O
ATOM	8572	NE2	GLN	900	12.991	59.502	11.995	1.00	0.00	N
ATOM	8573	1HE2	GLN	900	12.308	60.250	11.872	1.00	0.00	H
ATOM	8574	2HE2	GLN	900	13.959	59.631	11.700	1.00	0.00	H
ATOM	8575	C	GLN	900	16.079	58.809	15.163	1.00	0.00	C
ATOM	8576	O	GLN	900	15.894	59.888	15.732	1.00	0.00	O
ATOM	8577	N	VAL	901	16.823	57.838	15.725	1.00	0.00	N
ATOM	8578	HN	VAL	901	17.020	56.985	15.202	1.00	0.00	H
ATOM	8579	CA	VAL	901	17.345	57.994	17.062	1.00	0.00	C
ATOM	8580	CB	VAL	901	18.185	56.828	17.469	1.00	0.00	C
ATOM	8581	CG1	VAL	901	19.003	57.232	18.696	1.00	0.00	C

ATOM	8582	CG2	VAL	901	17.257	55.636	17.735	1.00	0.00	C
ATOM	8583	C	VAL	901	18.241	59.169	17.076	1.00	0.00	C
ATOM	8584	O	VAL	901	18.204	60.013	17.973	1.00	0.00	O
ATOM	8585	N	SER	902	19.072	59.222	16.035	1.00	0.00	N
ATOM	8586	HN	SER	902	18.992	58.509	15.310	1.00	0.00	H
ATOM	8587	CA	SER	902	20.064	60.228	15.891	1.00	0.00	C
ATOM	8588	CB	SER	902	21.106	59.839	14.826	1.00	0.00	C
ATOM	8589	OG	SER	902	22.089	60.851	14.691	1.00	0.00	O
ATOM	8590	HG	SER	902	22.732	60.611	14.034	1.00	0.00	H
ATOM	8591	C	SER	902	19.425	61.530	15.477	1.00	0.00	C
ATOM	8592	O	SER	902	20.146	62.475	15.166	1.00	0.00	O
ATOM	8593	N	SER	903	18.076	61.651	15.425	1.00	0.00	N
ATOM	8594	HN	SER	903	17.449	60.905	15.727	1.00	0.00	H
ATOM	8595	CA	SER	903	17.587	62.914	14.911	1.00	0.00	C
ATOM	8596	CB	SER	903	17.215	62.855	13.423	1.00	0.00	C
ATOM	8597	OG	SER	903	18.364	62.557	12.645	1.00	0.00	O
ATOM	8598	HG	SER	903	18.134	62.520	11.724	1.00	0.00	H
ATOM	8599	C	SER	903	16.359	63.377	15.645	1.00	0.00	C
ATOM	8600	O	SER	903	15.885	62.715	16.566	1.00	0.00	O
ATOM	8601	N	PHE	904	15.865	64.585	15.267	1.00	0.00	N
ATOM	8602	HN	PHE	904	16.380	65.104	14.556	1.00	0.00	H
ATOM	8603	CA	PHE	904	14.664	65.188	15.798	1.00	0.00	C
ATOM	8604	CB	PHE	904	13.438	64.255	15.907	1.00	0.00	C
ATOM	8605	CG	PHE	904	12.658	64.330	14.633	1.00	0.00	C
ATOM	8606	CD1	PHE	904	13.057	63.688	13.484	1.00	0.00	C
ATOM	8607	CD2	PHE	904	11.488	65.057	14.604	1.00	0.00	C
ATOM	8608	CE1	PHE	904	12.305	63.784	12.334	1.00	0.00	C
ATOM	8609	CE2	PHE	904	10.732	65.155	13.459	1.00	0.00	C
ATOM	8610	CZ	PHE	904	11.143	64.517	12.316	1.00	0.00	C
ATOM	8611	C	PHE	904	14.929	65.833	17.132	1.00	0.00	C
ATOM	8612	O	PHE	904	16.036	66.282	17.424	1.00	0.00	O
ATOM	8613	N	ALA	905	13.876	65.864	17.978	1.00	0.00	N
ATOM	8614	HN	ALA	905	13.038	65.371	17.668	1.00	0.00	H
ATOM	8615	CA	ALA	905	13.792	66.508	19.264	1.00	0.00	C
ATOM	8616	CB	ALA	905	12.480	66.117	19.977	1.00	0.00	C
ATOM	8617	C	ALA	905	14.961	66.090	20.105	1.00	0.00	C
ATOM	8618	O	ALA	905	15.658	65.139	19.742	1.00	0.00	O
ATOM	8619	N	PRO	906	15.239	66.797	21.201	1.00	0.00	N
ATOM	8620	CA	PRO	906	16.360	66.473	22.038	1.00	0.00	C
ATOM	8621	CD	PRO	906	14.241	67.565	21.935	1.00	0.00	C
ATOM	8622	CB	PRO	906	16.261	67.391	23.253	1.00	0.00	C
ATOM	8623	CG	PRO	906	14.747	67.615	23.388	1.00	0.00	C
ATOM	8624	C	PRO	906	16.149	65.049	22.418	1.00	0.00	C
ATOM	8625	O	PRO	906	14.990	64.641	22.412	1.00	0.00	O
ATOM	8626	N	ASP	907	17.219	64.319	22.843	1.00	0.00	N
ATOM	8627	HN	ASP	907	18.094	64.840	22.894	1.00	0.00	H
ATOM	8628	CA	ASP	907	17.324	62.917	23.237	1.00	0.00	C
ATOM	8629	CB	ASP	907	18.746	62.457	23.586	1.00	0.00	C
ATOM	8630	CG	ASP	907	19.443	62.089	22.280	1.00	0.00	C
ATOM	8631	OD1	ASP	907	18.782	62.153	21.207	1.00	0.00	O
ATOM	8632	OD2	ASP	907	20.643	61.712	22.342	1.00	0.00	O
ATOM	8633	C	ASP	907	16.428	62.672	24.430	1.00	0.00	C
ATOM	8634	O	ASP	907	16.589	61.730	25.200	1.00	0.00	O
ATOM	8635	N	TYR	908	15.556	63.644	24.701	1.00	0.00	N
ATOM	8636	HN	TYR	908	15.676	64.520	24.192	1.00	0.00	H
ATOM	8637	CA	TYR	908	14.486	63.589	25.617	1.00	0.00	C
ATOM	8638	CB	TYR	908	13.922	62.154	25.660	1.00	0.00	C
ATOM	8639	CG	TYR	908	12.609	62.048	26.355	1.00	0.00	C
ATOM	8640	CD1	TYR	908	12.491	62.206	27.715	1.00	0.00	C
ATOM	8641	CD2	TYR	908	11.488	61.735	25.620	1.00	0.00	C
ATOM	8642	CE1	TYR	908	11.263	62.082	28.324	1.00	0.00	C
ATOM	8643	CE2	TYR	908	10.260	61.610	26.221	1.00	0.00	C
ATOM	8644	CZ	TYR	908	10.145	61.785	27.578	1.00	0.00	C
ATOM	8645	OH	TYR	908	8.885	61.655	28.200	1.00	0.00	O
ATOM	8646	HH	TYR	908	8.805	61.776	29.139	1.00	0.00	H
ATOM	8647	C	TYR	908	15.000	63.921	26.970	1.00	0.00	C
ATOM	8648	O	TYR	908	14.221	64.372	27.772	1.00	0.00	O
ATOM	8649	N	THR	909	16.296	63.840	27.287	1.00	0.00	N
ATOM	8650	HN	THR	909	16.999	63.632	26.578	1.00	0.00	H
ATOM	8651	CA	THR	909	16.669	64.057	28.668	1.00	0.00	C
ATOM	8652	CB	THR	909	18.135	63.812	28.868	1.00	0.00	C
ATOM	8653	OG1	THR	909	18.463	62.476	28.512	1.00	0.00	O
ATOM	8654	HG1	THR	909	19.392	62.321	28.639	1.00	0.00	H
ATOM	8655	CG2	THR	909	18.491	64.070	30.342	1.00	0.00	C

ATOM	8656	C	THR	909	16.360	65.444	29.166	1.00	0.00	C
ATOM	8657	O	THR	909	15.415	65.656	29.920	1.00	0.00	O
ATOM	8658	N	LYS	910	17.052	66.454	28.624	1.00	0.00	N
ATOM	8659	HN	LYS	910	17.642	66.246	27.818	1.00	0.00	H
ATOM	8660	CA	LYS	910	17.022	67.817	29.100	1.00	0.00	C
ATOM	8661	CB	LYS	910	17.758	68.744	28.120	1.00	0.00	C
ATOM	8662	CG	LYS	910	19.160	68.268	27.721	1.00	0.00	C
ATOM	8663	CD	LYS	910	19.181	66.989	26.871	1.00	0.00	C
ATOM	8664	CE	LYS	910	18.093	66.947	25.793	1.00	0.00	C
ATOM	8665	NZ	LYS	910	17.824	65.546	25.395	1.00	0.00	N
ATOM	8666	HZ1	LYS	910	17.100	65.518	24.677	1.00	0.00	H
ATOM	8667	HZ2	LYS	910	17.590	64.960	26.196	1.00	0.00	H
ATOM	8668	HZ3	LYS	910	18.673	65.064	25.100	1.00	0.00	H
ATOM	8669	C	LYS	910	15.597	68.245	29.064	1.00	0.00	C
ATOM	8670	O	LYS	910	15.144	69.031	29.898	1.00	0.00	O
ATOM	8671	N	ALA	911	14.856	67.732	28.066	1.00	0.00	N
ATOM	8672	HN	ALA	911	15.266	67.069	27.408	1.00	0.00	H
ATOM	8673	CA	ALA	911	13.487	68.125	27.936	1.00	0.00	C
ATOM	8674	CB	ALA	911	12.802	67.475	26.722	1.00	0.00	C
ATOM	8675	C	ALA	911	12.731	67.690	29.159	1.00	0.00	C
ATOM	8676	O	ALA	911	11.951	68.442	29.739	1.00	0.00	O
ATOM	8677	N	LYS	912	12.966	66.452	29.605	1.00	0.00	N
ATOM	8678	HN	LYS	912	13.645	65.877	29.107	1.00	0.00	H
ATOM	8679	CA	LYS	912	12.309	65.895	30.750	1.00	0.00	C
ATOM	8680	CB	LYS	912	12.794	64.459	31.022	1.00	0.00	C
ATOM	8681	CG	LYS	912	12.151	63.764	32.223	1.00	0.00	C
ATOM	8682	CD	LYS	912	12.590	62.303	32.349	1.00	0.00	C
ATOM	8683	CE	LYS	912	12.063	61.585	33.592	1.00	0.00	C
ATOM	8684	NZ	LYS	912	12.813	60.325	33.798	1.00	0.00	N
ATOM	8685	HZ1	LYS	912	12.461	59.846	34.627	1.00	0.00	H
ATOM	8686	HZ2	LYS	912	13.820	60.481	33.843	1.00	0.00	H
ATOM	8687	HZ3	LYS	912	12.793	59.727	32.972	1.00	0.00	H
ATOM	8688	C	LYS	912	12.630	66.718	31.971	1.00	0.00	C
ATOM	8689	O	LYS	912	11.742	67.051	32.755	1.00	0.00	O
ATOM	8690	N	ILE	913	13.908	67.107	32.153	1.00	0.00	N
ATOM	8691	HN	ILE	913	14.607	66.886	31.444	1.00	0.00	H
ATOM	8692	CA	ILE	913	14.300	67.832	33.339	1.00	0.00	C
ATOM	8693	CB	ILE	913	15.732	68.280	33.272	1.00	0.00	C
ATOM	8694	CG1	ILE	913	16.695	67.093	33.085	1.00	0.00	C
ATOM	8695	CG2	ILE	913	16.013	69.121	34.528	1.00	0.00	C
ATOM	8696	CD1	ILE	913	16.690	66.089	34.236	1.00	0.00	C
ATOM	8697	C	ILE	913	13.497	69.080	33.365	1.00	0.00	C
ATOM	8698	O	ILE	913	12.879	69.449	34.364	1.00	0.00	O
ATOM	8699	N	SER	914	13.461	69.746	32.211	1.00	0.00	N
ATOM	8700	HN	SER	914	13.918	69.362	31.384	1.00	0.00	H
ATOM	8701	CA	SER	914	12.782	70.996	32.137	1.00	0.00	C
ATOM	8702	CB	SER	914	12.910	71.581	30.731	1.00	0.00	C
ATOM	8703	OG	SER	914	12.234	72.819	30.650	1.00	0.00	O
ATOM	8704	HG	SER	914	12.314	73.183	29.776	1.00	0.00	H
ATOM	8705	C	SER	914	11.321	70.761	32.401	1.00	0.00	C
ATOM	8706	O	SER	914	10.654	71.581	33.031	1.00	0.00	O
ATOM	8707	N	ALA	915	10.777	69.619	31.932	1.00	0.00	N
ATOM	8708	HN	ALA	915	11.364	68.931	31.460	1.00	0.00	H
ATOM	8709	CA	ALA	915	9.372	69.372	32.097	1.00	0.00	C
ATOM	8710	CB	ALA	915	8.936	68.048	31.451	1.00	0.00	C
ATOM	8711	C	ALA	915	9.018	69.308	33.564	1.00	0.00	C
ATOM	8712	O	ALA	915	8.078	69.963	34.022	1.00	0.00	O
ATOM	8713	N	ALA	916	9.809	68.565	34.363	1.00	0.00	N
ATOM	8714	HN	ALA	916	10.653	68.137	33.982	1.00	0.00	H
ATOM	8715	CA	ALA	916	9.474	68.371	35.745	1.00	0.00	C
ATOM	8716	CB	ALA	916	10.518	67.534	36.503	1.00	0.00	C
ATOM	8717	C	ALA	916	9.407	69.705	36.407	1.00	0.00	C
ATOM	8718	O	ALA	916	8.463	70.001	37.140	1.00	0.00	O
ATOM	8719	N	HIS	917	10.386	70.575	36.115	1.00	0.00	N
ATOM	8720	HN	HIS	917	11.097	70.333	35.424	1.00	0.00	H
ATOM	8721	CA	HIS	917	10.429	71.844	36.777	1.00	0.00	C
ATOM	8722	ND1	HIS	917	13.508	72.876	37.832	1.00	0.00	N
ATOM	8723	HD1	HIS	917	13.072	73.483	38.526	1.00	0.00	H
ATOM	8724	CG	HIS	917	12.931	72.409	36.671	1.00	0.00	C
ATOM	8725	CB	HIS	917	11.541	72.764	36.241	1.00	0.00	C
ATOM	8726	NE2	HIS	917	15.038	71.616	36.825	1.00	0.00	N
ATOM	8727	HE2	HIS	917	15.908	71.124	36.619	1.00	0.00	H
ATOM	8728	CD2	HIS	917	13.880	71.640	36.069	1.00	0.00	C
ATOM	8729	CE1	HIS	917	14.766	72.373	37.874	1.00	0.00	C

ATOM	8730	C	HIS	917	9.163	72.613	36.544	1.00	0.00	C
ATOM	8731	O	HIS	917	8.475	73.028	37.477	1.00	0.00	O
ATOM	8732	N	ILE	918	8.789	72.774	35.269	1.00	0.00	N
ATOM	8733	HN	ILE	918	9.302	72.291	34.531	1.00	0.00	H
ATOM	8734	CA	ILE	918	7.683	73.612	34.923	1.00	0.00	C
ATOM	8735	CB	ILE	918	7.503	73.687	33.425	1.00	0.00	C
ATOM	8736	CG1	ILE	918	6.515	74.789	33.006	1.00	0.00	C
ATOM	8737	CG2	ILE	918	7.127	72.288	32.915	1.00	0.00	C
ATOM	8738	CD1	ILE	918	5.060	74.491	33.354	1.00	0.00	C
ATOM	8739	C	ILE	918	6.458	73.074	35.581	1.00	0.00	C
ATOM	8740	O	ILE	918	5.565	73.834	35.958	1.00	0.00	O
ATOM	8741	N	ILE	919	6.377	71.737	35.702	1.00	0.00	N
ATOM	8742	HN	ILE	919	7.157	71.161	35.385	1.00	0.00	H
ATOM	8743	CA	ILE	919	5.220	71.101	36.266	1.00	0.00	C
ATOM	8744	CB	ILE	919	5.263	69.600	36.176	1.00	0.00	C
ATOM	8745	CG1	ILE	919	5.229	69.150	34.706	1.00	0.00	C
ATOM	8746	CG2	ILE	919	4.106	69.034	37.017	1.00	0.00	C
ATOM	8747	CD1	ILE	919	5.480	67.655	34.516	1.00	0.00	C
ATOM	8748	C	ILE	919	5.008	71.447	37.710	1.00	0.00	C
ATOM	8749	O	ILE	919	3.888	71.777	38.099	1.00	0.00	O
ATOM	8750	N	MET	920	6.059	71.408	38.553	1.00	0.00	N
ATOM	8751	HN	MET	920	6.999	71.206	38.214	1.00	0.00	H
ATOM	8752	CA	MET	920	5.809	71.662	39.951	1.00	0.00	C
ATOM	8753	CB	MET	920	7.076	71.622	40.829	1.00	0.00	C
ATOM	8754	CG	MET	920	7.575	70.230	41.225	1.00	0.00	C
ATOM	8755	SD	MET	920	8.262	69.208	39.889	1.00	0.00	S
ATOM	8756	CE	MET	920	6.795	68.150	39.727	1.00	0.00	C
ATOM	8757	C	MET	920	5.234	73.045	40.106	1.00	0.00	C
ATOM	8758	O	MET	920	4.304	73.283	40.878	1.00	0.00	O
ATOM	8759	N	ILE	921	5.774	73.998	39.339	1.00	0.00	N
ATOM	8760	HN	ILE	921	6.493	73.734	38.665	1.00	0.00	H
ATOM	8761	CA	ILE	921	5.383	75.383	39.424	1.00	0.00	C
ATOM	8762	CB	ILE	921	6.229	76.216	38.514	1.00	0.00	C
ATOM	8763	CG1	ILE	921	7.700	76.090	38.940	1.00	0.00	C
ATOM	8764	CG2	ILE	921	5.684	77.653	38.510	1.00	0.00	C
ATOM	8765	CD1	ILE	921	8.678	76.531	37.861	1.00	0.00	C
ATOM	8766	C	ILE	921	3.968	75.596	39.013	1.00	0.00	C
ATOM	8767	O	ILE	921	3.250	76.431	39.571	1.00	0.00	O
ATOM	8768	N	ILE	922	3.563	74.889	37.957	1.00	0.00	N
ATOM	8769	HN	ILE	922	4.210	74.240	37.510	1.00	0.00	H
ATOM	8770	CA	ILE	922	2.242	75.025	37.444	1.00	0.00	C
ATOM	8771	CB	ILE	922	2.042	74.358	36.114	1.00	0.00	C
ATOM	8772	CG1	ILE	922	0.723	74.821	35.480	1.00	0.00	C
ATOM	8773	CG2	ILE	922	2.134	72.836	36.289	1.00	0.00	C
ATOM	8774	CD1	ILE	922	0.603	74.401	34.019	1.00	0.00	C
ATOM	8775	C	ILE	922	1.247	74.487	38.414	1.00	0.00	C
ATOM	8776	O	ILE	922	0.109	74.946	38.445	1.00	0.00	O
ATOM	8777	N	GLU	923	1.620	73.457	39.197	1.00	0.00	N
ATOM	8778	HN	GLU	923	2.583	73.120	39.196	1.00	0.00	H
ATOM	8779	CA	GLU	923	0.624	72.845	40.035	1.00	0.00	C
ATOM	8780	CB	GLU	923	1.208	71.690	40.869	1.00	0.00	C
ATOM	8781	CG	GLU	923	1.737	70.547	39.998	1.00	0.00	C
ATOM	8782	CD	GLU	923	0.577	70.034	39.156	1.00	0.00	C
ATOM	8783	OE1	GLU	923	-0.580	70.436	39.451	1.00	0.00	O
ATOM	8784	OE2	GLU	923	0.828	69.242	38.209	1.00	0.00	O
ATOM	8785	C	GLU	923	0.006	73.853	40.968	1.00	0.00	C
ATOM	8786	O	GLU	923	-1.162	74.198	40.797	1.00	0.00	O
ATOM	8787	N	LYS	924	0.795	74.411	41.912	1.00	0.00	N
ATOM	8788	HN	LYS	924	1.762	74.091	41.969	1.00	0.00	H
ATOM	8789	CA	LYS	924	0.368	75.435	42.853	1.00	0.00	C
ATOM	8790	CB	LYS	924	0.537	76.835	42.266	1.00	0.00	C
ATOM	8791	CG	LYS	924	-0.335	76.917	41.022	1.00	0.00	C
ATOM	8792	CD	LYS	924	-0.636	78.315	40.517	1.00	0.00	C
ATOM	8793	CE	LYS	924	-1.713	78.281	39.439	1.00	0.00	C
ATOM	8794	NZ	LYS	924	-1.451	77.155	38.514	1.00	0.00	N
ATOM	8795	HZ1	LYS	924	-2.172	77.132	37.793	1.00	0.00	H
ATOM	8796	HZ2	LYS	924	-1.369	76.265	39.005	1.00	0.00	H
ATOM	8797	HZ3	LYS	924	-0.511	77.191	38.119	1.00	0.00	H
ATOM	8798	C	LYS	924	-1.091	75.349	43.315	1.00	0.00	C
ATOM	8799	O	LYS	924	-1.733	74.303	43.242	1.00	0.00	O
ATOM	8800	N	THR	925	-1.611	76.457	43.936	1.00	0.00	N
ATOM	8801	HN	THR	925	-0.980	77.234	44.134	1.00	0.00	H
ATOM	8802	CA	THR	925	-3.009	76.595	44.331	1.00	0.00	C
ATOM	8803	CB	THR	925	-3.288	76.106	45.728	1.00	0.00	C

ATOM	8804	OG1	THR	925	-4.664	76.274	46.034	1.00	0.00	O
ATOM	8805	HG1	THR	925	-5.213	75.825	45.403	1.00	0.00	H
ATOM	8806	CG2	THR	925	-2.397	76.835	46.752	1.00	0.00	C
ATOM	8807	C	THR	925	-3.451	78.050	44.215	1.00	0.00	C
ATOM	8808	O	THR	925	-3.153	78.864	45.086	1.00	0.00	O
ATOM	8809	N	PRO	926	-4.253	78.394	43.228	1.00	0.00	N
ATOM	8810	CA	PRO	926	-4.622	79.759	42.898	1.00	0.00	C
ATOM	8811	CD	PRO	926	-4.901	77.417	42.371	1.00	0.00	C
ATOM	8812	CB	PRO	926	-5.728	79.644	41.849	1.00	0.00	C
ATOM	8813	CG	PRO	926	-5.523	78.245	41.231	1.00	0.00	C
ATOM	8814	C	PRO	926	-5.016	80.593	44.067	1.00	0.00	C
ATOM	8815	O	PRO	926	-4.581	81.736	44.191	1.00	0.00	O
ATOM	8816	N	LEU	927	-5.912	80.072	44.893	1.00	0.00	N
ATOM	8817	HN	LEU	927	-6.362	79.194	44.634	1.00	0.00	H
ATOM	8818	CA	LEU	927	-6.274	80.684	46.125	1.00	0.00	C
ATOM	8819	CB	LEU	927	-5.107	80.953	47.093	1.00	0.00	C
ATOM	8820	CG	LEU	927	-5.641	81.419	48.465	1.00	0.00	C
ATOM	8821	CD1	LEU	927	-6.420	80.290	49.159	1.00	0.00	C
ATOM	8822	CD2	LEU	927	-4.549	82.019	49.360	1.00	0.00	C
ATOM	8823	C	LEU	927	-7.029	81.982	45.967	1.00	0.00	C
ATOM	8824	O	LEU	927	-7.709	82.345	46.922	1.00	0.00	O
ATOM	8825	N	ILE	928	-6.959	82.734	44.831	1.00	0.00	N
ATOM	8826	HN	ILE	928	-6.393	82.444	44.033	1.00	0.00	H
ATOM	8827	CA	ILE	928	-7.730	83.970	44.810	1.00	0.00	C
ATOM	8828	CB	ILE	928	-6.944	85.114	45.410	1.00	0.00	C
ATOM	8829	CG1	ILE	928	-6.246	84.766	46.740	1.00	0.00	C
ATOM	8830	CG2	ILE	928	-7.935	86.273	45.613	1.00	0.00	C
ATOM	8831	CD1	ILE	928	-7.140	84.805	47.973	1.00	0.00	C
ATOM	8832	C	ILE	928	-7.934	84.430	43.377	1.00	0.00	C
ATOM	8833	O	ILE	928	-7.479	85.524	43.029	1.00	0.00	O
ATOM	8834	N	ASP	929	-8.548	83.628	42.481	1.00	0.00	N
ATOM	8835	HN	ASP	929	-8.880	82.699	42.742	1.00	0.00	H
ATOM	8836	CA	ASP	929	-8.717	84.135	41.139	1.00	0.00	C
ATOM	8837	CB	ASP	929	-8.851	82.995	40.112	1.00	0.00	C
ATOM	8838	CG	ASP	929	-8.640	83.540	38.703	1.00	0.00	C
ATOM	8839	OD1	ASP	929	-9.434	84.413	38.263	1.00	0.00	O
ATOM	8840	OD2	ASP	929	-7.677	83.068	38.042	1.00	0.00	O
ATOM	8841	C	ASP	929	-9.908	85.025	40.977	1.00	0.00	C
ATOM	8842	O	ASP	929	-9.822	86.249	40.864	1.00	0.00	O
ATOM	8843	N	SER	930	-11.090	84.391	41.063	1.00	0.00	N
ATOM	8844	HN	SER	930	-11.105	83.400	41.302	1.00	0.00	H
ATOM	8845	CA	SER	930	-12.325	85.066	40.829	1.00	0.00	C
ATOM	8846	CB	SER	930	-12.978	84.745	39.478	1.00	0.00	C
ATOM	8847	OG	SER	930	-14.193	85.468	39.352	1.00	0.00	O
ATOM	8848	HG	SER	930	-14.597	85.269	38.516	1.00	0.00	H
ATOM	8849	C	SER	930	-13.232	84.543	41.855	1.00	0.00	C
ATOM	8850	O	SER	930	-12.930	83.543	42.500	1.00	0.00	O
ATOM	8851	N	TYR	931	-14.339	85.257	42.073	1.00	0.00	N
ATOM	8852	HN	TYR	931	-14.512	86.112	41.545	1.00	0.00	H
ATOM	8853	CA	TYR	931	-15.275	84.815	43.047	1.00	0.00	C
ATOM	8854	CB	TYR	931	-14.924	85.189	44.498	1.00	0.00	C
ATOM	8855	CG	TYR	931	-13.636	84.593	44.916	1.00	0.00	C
ATOM	8856	CD1	TYR	931	-13.566	83.243	45.150	1.00	0.00	C
ATOM	8857	CD2	TYR	931	-12.524	85.382	45.096	1.00	0.00	C
ATOM	8858	CE1	TYR	931	-12.386	82.672	45.543	1.00	0.00	C
ATOM	8859	CE2	TYR	931	-11.338	84.818	45.490	1.00	0.00	C
ATOM	8860	CZ	TYR	931	-11.279	83.464	45.710	1.00	0.00	C
ATOM	8861	OH	TYR	931	-10.075	82.872	46.116	1.00	0.00	O
ATOM	8862	HH	TYR	931	-9.308	83.421	46.232	1.00	0.00	H
ATOM	8863	C	TYR	931	-16.486	85.641	42.849	1.00	0.00	C
ATOM	8864	O	TYR	931	-16.619	86.400	41.893	1.00	0.00	O
ATOM	8865	N	SER	932	-17.385	85.506	43.831	1.00	0.00	N
ATOM	8866	HN	SER	932	-17.222	84.775	44.524	1.00	0.00	H
ATOM	8867	CA	SER	932	-18.551	86.307	43.979	1.00	0.00	C
ATOM	8868	CB	SER	932	-19.854	85.494	44.041	1.00	0.00	C
ATOM	8869	OG	SER	932	-20.960	86.371	44.194	1.00	0.00	O
ATOM	8870	HG	SER	932	-21.765	85.869	44.232	1.00	0.00	H
ATOM	8871	C	SER	932	-18.342	86.904	45.329	1.00	0.00	C
ATOM	8872	O	SER	932	-17.915	88.053	45.443	1.00	0.00	O
ATOM	8873	N	THR	933	-18.728	86.137	46.375	1.00	0.00	N
ATOM	8874	HN	THR	933	-19.218	85.270	46.155	1.00	0.00	H
ATOM	8875	CA	THR	933	-18.514	86.427	47.767	1.00	0.00	C
ATOM	8876	CB	THR	933	-17.162	86.002	48.274	1.00	0.00	C
ATOM	8877	OG1	THR	933	-16.140	86.450	47.400	1.00	0.00	O



ATOM	8878	HG1	THR	933	-16.160	87.397	47.326	1.00	0.00	H
ATOM	8879	CG2	THR	933	-17.130	84.467	48.394	1.00	0.00	C
ATOM	8880	C	THR	933	-18.804	87.854	48.018	1.00	0.00	C
ATOM	8881	O	THR	933	-18.201	88.464	48.901	1.00	0.00	O
ATOM	8882	N	GLU	934	-19.787	88.367	47.244	1.00	0.00	N
ATOM	8883	HN	GLU	934	-20.279	87.727	46.620	1.00	0.00	H
ATOM	8884	CA	GLU	934	-20.188	89.737	47.235	1.00	0.00	C
ATOM	8885	CB	GLU	934	-19.035	90.689	47.616	1.00	0.00	C
ATOM	8886	CG	GLU	934	-19.144	92.119	47.126	1.00	0.00	C
ATOM	8887	CD	GLU	934	-18.360	92.186	45.823	1.00	0.00	C
ATOM	8888	OE1	GLU	934	-18.157	91.120	45.185	1.00	0.00	O
ATOM	8889	OE2	GLU	934	-17.957	93.317	45.444	1.00	0.00	O
ATOM	8890	C	GLU	934	-20.619	90.088	45.847	1.00	0.00	C
ATOM	8891	O	GLU	934	-20.124	89.562	44.852	1.00	0.00	O
ATOM	8892	N	GLY	935	-21.681	90.899	45.799	1.00	0.00	N
ATOM	8893	HN	GLY	935	-22.135	91.082	46.694	1.00	0.00	H
ATOM	8894	CA	GLY	935	-22.268	91.546	44.665	1.00	0.00	C
ATOM	8895	C	GLY	935	-21.576	92.835	44.305	1.00	0.00	C
ATOM	8896	O	GLY	935	-21.760	93.353	43.203	1.00	0.00	O
ATOM	8897	N	LEU	936	-20.827	93.441	45.252	1.00	0.00	N
ATOM	8898	HN	LEU	936	-20.617	92.948	46.120	1.00	0.00	H
ATOM	8899	CA	LEU	936	-20.320	94.778	45.051	1.00	0.00	C
ATOM	8900	CB	LEU	936	-19.575	94.946	43.708	1.00	0.00	C
ATOM	8901	CG	LEU	936	-18.619	96.162	43.567	1.00	0.00	C
ATOM	8902	CD1	LEU	936	-18.144	96.288	42.111	1.00	0.00	C
ATOM	8903	CD2	LEU	936	-19.129	97.489	44.155	1.00	0.00	C
ATOM	8904	C	LEU	936	-21.562	95.622	45.030	1.00	0.00	C
ATOM	8905	O	LEU	936	-21.691	96.626	44.334	1.00	0.00	O
ATOM	8906	N	MET	937	-22.543	95.222	45.854	1.00	0.00	N
ATOM	8907	HN	MET	937	-22.397	94.433	46.484	1.00	0.00	H
ATOM	8908	CA	MET	937	-23.795	95.913	45.839	1.00	0.00	C
ATOM	8909	CB	MET	937	-24.832	95.300	46.794	1.00	0.00	C
ATOM	8910	CG	MET	937	-25.271	93.924	46.290	1.00	0.00	C
ATOM	8911	SD	MET	937	-26.260	92.907	47.420	1.00	0.00	S
ATOM	8912	CE	MET	937	-25.841	91.380	46.527	1.00	0.00	C
ATOM	8913	C	MET	937	-23.603	97.355	46.157	1.00	0.00	C
ATOM	8914	O	MET	937	-22.799	97.735	47.009	1.00	0.00	O
ATOM	8915	N	PRO	938	-24.306	98.182	45.423	1.00	0.00	N
ATOM	8916	CA	PRO	938	-24.226	99.579	45.707	1.00	0.00	C
ATOM	8917	CD	PRO	938	-24.572	97.930	44.015	1.00	0.00	C
ATOM	8918	CB	PRO	938	-24.929	100.284	44.551	1.00	0.00	C
ATOM	8919	CG	PRO	938	-24.689	99.322	43.367	1.00	0.00	C
ATOM	8920	C	PRO	938	-24.784	99.810	47.070	1.00	0.00	C
ATOM	8921	O	PRO	938	-25.998	99.945	47.214	1.00	0.00	O
ATOM	8922	N	ASN	939	-23.905	99.875	48.086	1.00	0.00	N
ATOM	8923	HN	ASN	939	-22.912	99.743	47.895	1.00	0.00	H
ATOM	8924	CA	ASN	939	-24.333	100.126	49.432	1.00	0.00	C
ATOM	8925	CB	ASN	939	-25.571	99.315	49.866	1.00	0.00	C
ATOM	8926	CG	ASN	939	-25.233	97.833	49.917	1.00	0.00	C
ATOM	8927	OD1	ASN	939	-25.167	97.157	48.892	1.00	0.00	O
ATOM	8928	ND2	ASN	939	-25.018	97.307	51.152	1.00	0.00	N
ATOM	8929	1HD2	ASN	939	-24.791	96.313	51.186	1.00	0.00	H
ATOM	8930	2HD2	ASN	939	-25.073	97.868	52.002	1.00	0.00	H
ATOM	8931	C	ASN	939	-23.186	99.732	50.312	1.00	0.00	C
ATOM	8932	O	ASN	939	-23.067	100.183	51.450	1.00	0.00	O
ATOM	8933	N	THR	940	-22.287	98.908	49.740	1.00	0.00	N
ATOM	8934	HN	THR	940	-22.468	98.664	48.766	1.00	0.00	H
ATOM	8935	CA	THR	940	-21.107	98.327	50.319	1.00	0.00	C
ATOM	8936	CB	THR	940	-20.434	97.319	49.434	1.00	0.00	C
ATOM	8937	OG1	THR	940	-19.397	96.666	50.149	1.00	0.00	O
ATOM	8938	HG1	THR	940	-18.971	96.028	49.589	1.00	0.00	H
ATOM	8939	CG2	THR	940	-19.858	98.034	48.199	1.00	0.00	C
ATOM	8940	C	THR	940	-20.125	99.423	50.570	1.00	0.00	C
ATOM	8941	O	THR	940	-19.016	99.182	51.039	1.00	0.00	O
ATOM	8942	N	LEU	941	-20.492	100.643	50.149	1.00	0.00	N
ATOM	8943	HN	LEU	941	-21.424	100.727	49.743	1.00	0.00	H
ATOM	8944	CA	LEU	941	-19.704	101.843	50.212	1.00	0.00	C
ATOM	8945	CB	LEU	941	-20.387	103.057	49.545	1.00	0.00	C
ATOM	8946	CG	LEU	941	-20.514	102.971	48.010	1.00	0.00	C
ATOM	8947	CD1	LEU	941	-21.490	101.867	47.572	1.00	0.00	C
ATOM	8948	CD2	LEU	941	-20.855	104.344	47.406	1.00	0.00	C
ATOM	8949	C	LEU	941	-19.333	102.275	51.609	1.00	0.00	C
ATOM	8950	O	LEU	941	-18.364	103.021	51.747	1.00	0.00	O
ATOM	8951	N	GLU	942	-20.075	101.884	52.674	1.00	0.00	N

ATOM	8952	HN	GLU	942	-20.819	101.196	52.559	1.00	0.00	H
ATOM	8953	CA	GLU	942	-19.799	102.455	53.979	1.00	0.00	C
ATOM	8954	CB	GLU	942	-20.649	101.843	55.106	1.00	0.00	C
ATOM	8955	CG	GLU	942	-22.082	102.373	55.117	1.00	0.00	C
ATOM	8956	CD	GLU	942	-21.984	103.852	55.460	1.00	0.00	C
ATOM	8957	OE1	GLU	942	-21.220	104.170	56.408	1.00	0.00	O
ATOM	8958	OE2	GLU	942	-22.646	104.679	54.779	1.00	0.00	O
ATOM	8959	C	GLU	942	-18.349	102.321	54.376	1.00	0.00	C
ATOM	8960	O	GLU	942	-17.677	103.338	54.542	1.00	0.00	O
ATOM	8961	N	GLY	943	-17.788	101.098	54.456	1.00	0.00	N
ATOM	8962	HN	GLY	943	-18.343	100.254	54.314	1.00	0.00	H
ATOM	8963	CA	GLY	943	-16.379	101.019	54.749	1.00	0.00	C
ATOM	8964	C	GLY	943	-16.040	100.980	56.219	1.00	0.00	C
ATOM	8965	O	GLY	943	-15.035	101.562	56.630	1.00	0.00	O
ATOM	8966	N	ASN	944	-16.858	100.308	57.057	1.00	0.00	N
ATOM	8967	HN	ASN	944	-17.729	99.911	56.705	1.00	0.00	H
ATOM	8968	CA	ASN	944	-16.508	100.147	58.448	1.00	0.00	C
ATOM	8969	CB	ASN	944	-17.728	100.053	59.383	1.00	0.00	C
ATOM	8970	CG	ASN	944	-18.364	101.430	59.519	1.00	0.00	C
ATOM	8971	OD1	ASN	944	-18.896	101.988	58.560	1.00	0.00	O
ATOM	8972	ND2	ASN	944	-18.315	101.996	60.755	1.00	0.00	N
ATOM	8973	1HD2	ASN	944	-17.874	101.533	61.550	1.00	0.00	H
ATOM	8974	2HD2	ASN	944	-18.741	102.918	60.846	1.00	0.00	H
ATOM	8975	C	ASN	944	-15.765	98.840	58.557	1.00	0.00	C
ATOM	8976	O	ASN	944	-16.289	97.796	58.169	1.00	0.00	O
ATOM	8977	N	VAL	945	-14.520	98.861	59.096	1.00	0.00	N
ATOM	8978	HN	VAL	945	-14.153	99.734	59.476	1.00	0.00	H
ATOM	8979	CA	VAL	945	-13.704	97.669	59.141	1.00	0.00	C
ATOM	8980	CB	VAL	945	-12.241	97.950	58.951	1.00	0.00	C
ATOM	8981	CG1	VAL	945	-11.474	96.623	59.069	1.00	0.00	C
ATOM	8982	CG2	VAL	945	-12.044	98.675	57.608	1.00	0.00	C
ATOM	8983	C	VAL	945	-13.842	96.937	60.450	1.00	0.00	C
ATOM	8984	O	VAL	945	-13.843	97.533	61.527	1.00	0.00	O
ATOM	8985	N	THR	946	-13.929	95.589	60.392	1.00	0.00	N
ATOM	8986	HN	THR	946	-13.881	95.107	59.495	1.00	0.00	H
ATOM	8987	CA	THR	946	-14.089	94.846	61.608	1.00	0.00	C
ATOM	8988	CB	THR	946	-15.416	94.151	61.719	1.00	0.00	C
ATOM	8989	OG1	THR	946	-16.476	95.092	61.637	1.00	0.00	O
ATOM	8990	HG1	THR	946	-17.315	94.652	61.707	1.00	0.00	H
ATOM	8991	CG2	THR	946	-15.467	93.414	63.067	1.00	0.00	C
ATOM	8992	C	THR	946	-13.031	93.795	61.715	1.00	0.00	C
ATOM	8993	O	THR	946	-12.865	92.968	60.817	1.00	0.00	O
ATOM	8994	N	PHE	947	-12.271	93.799	62.827	1.00	0.00	N
ATOM	8995	HN	PHE	947	-12.388	94.540	63.518	1.00	0.00	H
ATOM	8996	CA	PHE	947	-11.300	92.769	63.046	1.00	0.00	C
ATOM	8997	CB	PHE	947	-9.856	93.273	63.257	1.00	0.00	C
ATOM	8998	CG	PHE	947	-9.187	93.463	61.935	1.00	0.00	C
ATOM	8999	CD1	PHE	947	-8.662	92.367	61.293	1.00	0.00	C
ATOM	9000	CD2	PHE	947	-9.053	94.698	61.347	1.00	0.00	C
ATOM	9001	CE1	PHE	947	-8.033	92.486	60.078	1.00	0.00	C
ATOM	9002	CE2	PHE	947	-8.423	94.825	60.129	1.00	0.00	C
ATOM	9003	CZ	PHE	947	-7.911	93.720	59.490	1.00	0.00	C
ATOM	9004	C	PHE	947	-11.685	92.043	64.291	1.00	0.00	C
ATOM	9005	O	PHE	947	-11.759	92.630	65.372	1.00	0.00	O
ATOM	9006	N	GLY	948	-11.918	90.721	64.178	1.00	0.00	N
ATOM	9007	HN	GLY	948	-11.813	90.241	63.284	1.00	0.00	H
ATOM	9008	CA	GLY	948	-12.318	90.013	65.356	1.00	0.00	C
ATOM	9009	C	GLY	948	-11.528	88.750	65.486	1.00	0.00	C
ATOM	9010	O	GLY	948	-11.417	87.948	64.562	1.00	0.00	O
ATOM	9011	N	GLU	949	-10.939	88.587	66.681	1.00	0.00	N
ATOM	9012	HN	GLU	949	-11.020	89.373	67.326	1.00	0.00	H
ATOM	9013	CA	GLU	949	-10.211	87.453	67.170	1.00	0.00	C
ATOM	9014	CB	GLU	949	-11.019	86.143	67.173	1.00	0.00	C
ATOM	9015	CG	GLU	949	-10.303	85.018	67.928	1.00	0.00	C
ATOM	9016	CD	GLU	949	-11.238	83.822	68.010	1.00	0.00	C
ATOM	9017	OE1	GLU	949	-12.449	84.037	68.283	1.00	0.00	O
ATOM	9018	OE2	GLU	949	-10.754	82.677	67.800	1.00	0.00	O
ATOM	9019	C	GLU	949	-8.953	87.234	66.401	1.00	0.00	C
ATOM	9020	O	GLU	949	-8.078	86.539	66.912	1.00	0.00	O
ATOM	9021	N	VAL	950	-8.773	87.975	65.281	1.00	0.00	N
ATOM	9022	HN	VAL	950	-9.455	88.713	65.108	1.00	0.00	H
ATOM	9023	CA	VAL	950	-7.718	87.830	64.307	1.00	0.00	C
ATOM	9024	CB	VAL	950	-7.434	89.138	63.616	1.00	0.00	C
ATOM	9025	CG1	VAL	950	-6.244	88.967	62.661	1.00	0.00	C

ATOM	9026	CG2	VAL	950	-8.727	89.625	62.936	1.00	0.00	C
ATOM	9027	C	VAL	950	-6.435	87.348	64.926	1.00	0.00	C
ATOM	9028	O	VAL	950	-5.788	88.051	65.702	1.00	0.00	O
ATOM	9029	N	VAL	951	-6.058	86.091	64.587	1.00	0.00	N
ATOM	9030	HN	VAL	951	-6.662	85.556	63.963	1.00	0.00	H
ATOM	9031	CA	VAL	951	-4.846	85.470	65.063	1.00	0.00	C
ATOM	9032	CB	VAL	951	-5.084	84.254	65.909	1.00	0.00	C
ATOM	9033	CG1	VAL	951	-5.844	84.684	67.177	1.00	0.00	C
ATOM	9034	CG2	VAL	951	-5.829	83.201	65.071	1.00	0.00	C
ATOM	9035	C	VAL	951	-4.095	85.022	63.839	1.00	0.00	C
ATOM	9036	O	VAL	951	-4.702	84.476	62.920	1.00	0.00	O
ATOM	9037	N	PHE	952	-2.756	85.235	63.776	1.00	0.00	N
ATOM	9038	HN	PHE	952	-2.237	85.618	64.566	1.00	0.00	H
ATOM	9039	CA	PHE	952	-2.104	84.893	62.535	1.00	0.00	C
ATOM	9040	CB	PHE	952	-2.685	85.771	61.414	1.00	0.00	C
ATOM	9041	CG	PHE	952	-1.725	85.890	60.289	1.00	0.00	C
ATOM	9042	CD1	PHE	952	-1.599	84.906	59.338	1.00	0.00	C
ATOM	9043	CD2	PHE	952	-0.962	87.031	60.190	1.00	0.00	C
ATOM	9044	CE1	PHE	952	-0.702	85.058	58.308	1.00	0.00	C
ATOM	9045	CE2	PHE	952	-0.065	87.190	59.164	1.00	0.00	C
ATOM	9046	CZ	PHE	952	0.062	86.200	58.218	1.00	0.00	C
ATOM	9047	C	PHE	952	-0.604	85.084	62.542	1.00	0.00	C
ATOM	9048	O	PHE	952	-0.082	86.002	63.174	1.00	0.00	O
ATOM	9049	N	ASN	953	0.125	84.195	61.812	1.00	0.00	N
ATOM	9050	HN	ASN	953	-0.359	83.408	61.379	1.00	0.00	H
ATOM	9051	CA	ASN	953	1.551	84.314	61.622	1.00	0.00	C
ATOM	9052	CB	ASN	953	2.397	83.449	62.571	1.00	0.00	C
ATOM	9053	CG	ASN	953	3.864	83.740	62.278	1.00	0.00	C
ATOM	9054	OD1	ASN	953	4.533	82.975	61.585	1.00	0.00	O
ATOM	9055	ND2	ASN	953	4.377	84.888	62.796	1.00	0.00	N
ATOM	9056	1HD2	ASN	953	5.359	85.083	62.600	1.00	0.00	H
ATOM	9057	2HD2	ASN	953	3.822	85.522	63.371	1.00	0.00	H
ATOM	9058	C	ASN	953	1.894	83.890	60.217	1.00	0.00	C
ATOM	9059	O	ASN	953	1.649	82.750	59.822	1.00	0.00	O
ATOM	9060	N	TYR	954	2.528	84.794	59.436	1.00	0.00	N
ATOM	9061	HN	TYR	954	2.764	85.710	59.818	1.00	0.00	H
ATOM	9062	CA	TYR	954	2.876	84.484	58.072	1.00	0.00	C
ATOM	9063	CB	TYR	954	3.576	85.639	57.325	1.00	0.00	C
ATOM	9064	CG	TYR	954	4.663	86.182	58.190	1.00	0.00	C
ATOM	9065	CD1	TYR	954	4.327	87.011	59.235	1.00	0.00	C
ATOM	9066	CD2	TYR	954	5.991	85.895	57.964	1.00	0.00	C
ATOM	9067	CE1	TYR	954	5.293	87.540	60.054	1.00	0.00	C
ATOM	9068	CE2	TYR	954	6.964	86.422	58.783	1.00	0.00	C
ATOM	9069	CZ	TYR	954	6.614	87.244	59.829	1.00	0.00	C
ATOM	9070	OH	TYR	954	7.605	87.789	60.673	1.00	0.00	O
ATOM	9071	HH	TYR	954	7.363	88.357	61.395	1.00	0.00	H
ATOM	9072	C	TYR	954	3.744	83.282	58.076	1.00	0.00	C
ATOM	9073	O	TYR	954	4.698	83.201	58.850	1.00	0.00	O
ATOM	9074	N	PRO	955	3.429	82.367	57.192	1.00	0.00	N
ATOM	9075	CA	PRO	955	4.018	81.061	57.133	1.00	0.00	C
ATOM	9076	CD	PRO	955	2.429	82.577	56.158	1.00	0.00	C
ATOM	9077	CB	PRO	955	3.571	80.455	55.804	1.00	0.00	C
ATOM	9078	CG	PRO	955	2.249	81.191	55.506	1.00	0.00	C
ATOM	9079	C	PRO	955	5.484	81.051	57.384	1.00	0.00	C
ATOM	9080	O	PRO	955	6.301	81.282	56.495	1.00	0.00	O
ATOM	9081	N	THR	956	5.767	80.816	58.669	1.00	0.00	N
ATOM	9082	HN	THR	956	4.944	80.737	59.266	1.00	0.00	H
ATOM	9083	CA	THR	956	6.999	80.655	59.360	1.00	0.00	C
ATOM	9084	CB	THR	956	7.896	81.852	59.266	1.00	0.00	C
ATOM	9085	OG1	THR	956	9.143	81.572	59.884	1.00	0.00	O
ATOM	9086	HG1	THR	956	9.712	82.331	59.824	1.00	0.00	H
ATOM	9087	CG2	THR	956	7.213	83.048	59.951	1.00	0.00	C
ATOM	9088	C	THR	956	6.464	80.599	60.752	1.00	0.00	C
ATOM	9089	O	THR	956	7.122	80.957	61.727	1.00	0.00	O
ATOM	9090	N	ARG	957	5.251	80.018	60.831	1.00	0.00	N
ATOM	9091	HN	ARG	957	4.935	79.549	59.982	1.00	0.00	H
ATOM	9092	CA	ARG	957	4.339	79.965	61.939	1.00	0.00	C
ATOM	9093	CB	ARG	957	3.064	79.163	61.611	1.00	0.00	C
ATOM	9094	CG	ARG	957	2.061	79.079	62.765	1.00	0.00	C
ATOM	9095	CD	ARG	957	0.630	78.764	62.310	1.00	0.00	C
ATOM	9096	NE	ARG	957	0.714	77.939	61.071	1.00	0.00	N
ATOM	9097	HE	ARG	957	1.625	77.670	60.700	1.00	0.00	H
ATOM	9098	CZ	ARG	957	-0.426	77.543	60.432	1.00	0.00	C
ATOM	9099	NH1	ARG	957	-1.649	77.864	60.947	1.00	0.00	N

ATOM	9100	1HH1	ARG	957	-1.713	78.400	61.813	1.00	0.00	H
ATOM	9101	2HH1	ARG	957	-2.501	77.568	60.470	1.00	0.00	H
ATOM	9102	NH2	ARG	957	-0.341	76.826	59.274	1.00	0.00	N
ATOM	9103	1HH2	ARG	957	0.573	76.586	58.889	1.00	0.00	H
ATOM	9104	2HH2	ARG	957	-1.193	76.530	58.797	1.00	0.00	H
ATOM	9105	C	ARG	957	4.985	79.395	63.164	1.00	0.00	C
ATOM	9106	O	ARG	957	4.499	79.690	64.253	1.00	0.00	O
ATOM	9107	N	PRO	958	6.007	78.588	63.111	1.00	0.00	N
ATOM	9108	CA	PRO	958	6.592	78.137	64.342	1.00	0.00	C
ATOM	9109	CD	PRO	958	6.204	77.600	62.065	1.00	0.00	C
ATOM	9110	CB	PRO	958	7.650	77.103	63.945	1.00	0.00	C
ATOM	9111	CG	PRO	958	7.591	77.041	62.402	1.00	0.00	C
ATOM	9112	C	PRO	958	7.092	79.298	65.147	1.00	0.00	C
ATOM	9113	O	PRO	958	7.292	79.154	66.352	1.00	0.00	O
ATOM	9114	N	ASP	959	7.293	80.453	64.493	1.00	0.00	N
ATOM	9115	HN	ASP	959	7.136	80.454	63.485	1.00	0.00	H
ATOM	9116	CA	ASP	959	7.711	81.686	65.095	1.00	0.00	C
ATOM	9117	CB	ASP	959	8.021	82.794	64.071	1.00	0.00	C
ATOM	9118	CG	ASP	959	9.351	82.481	63.403	1.00	0.00	C
ATOM	9119	OD1	ASP	959	10.123	81.668	63.978	1.00	0.00	O
ATOM	9120	OD2	ASP	959	9.618	83.055	62.314	1.00	0.00	O
ATOM	9121	C	ASP	959	6.579	82.174	65.946	1.00	0.00	C
ATOM	9122	O	ASP	959	6.669	83.227	66.575	1.00	0.00	O
ATOM	9123	N	ILE	960	5.422	81.489	65.899	1.00	0.00	N
ATOM	9124	HN	ILE	960	5.347	80.641	65.337	1.00	0.00	H
ATOM	9125	CA	ILE	960	4.295	81.965	66.648	1.00	0.00	C
ATOM	9126	CB	ILE	960	4.574	82.306	68.093	1.00	0.00	C
ATOM	9127	CG1	ILE	960	4.814	81.033	68.923	1.00	0.00	C
ATOM	9128	CG2	ILE	960	3.403	83.152	68.622	1.00	0.00	C
ATOM	9129	CD1	ILE	960	6.094	80.274	68.581	1.00	0.00	C
ATOM	9130	C	ILE	960	3.796	83.176	65.930	1.00	0.00	C
ATOM	9131	O	ILE	960	4.548	83.864	65.244	1.00	0.00	O
ATOM	9132	N	PRO	961	2.509	83.370	65.995	1.00	0.00	N
ATOM	9133	CA	PRO	961	1.909	84.495	65.326	1.00	0.00	C
ATOM	9134	CD	PRO	961	1.633	82.206	65.990	1.00	0.00	C
ATOM	9135	CB	PRO	961	0.423	84.157	65.239	1.00	0.00	C
ATOM	9136	CG	PRO	961	0.391	82.623	65.193	1.00	0.00	C
ATOM	9137	C	PRO	961	2.163	85.843	65.941	1.00	0.00	C
ATOM	9138	O	PRO	961	2.371	85.930	67.150	1.00	0.00	O
ATOM	9139	N	VAL	962	2.209	86.889	65.088	1.00	0.00	N
ATOM	9140	HN	VAL	962	2.154	86.666	64.094	1.00	0.00	H
ATOM	9141	CA	VAL	962	2.327	88.283	65.426	1.00	0.00	C
ATOM	9142	CB	VAL	962	2.747	89.144	64.270	1.00	0.00	C
ATOM	9143	CG1	VAL	962	4.158	88.718	63.838	1.00	0.00	C
ATOM	9144	CG2	VAL	962	1.691	89.039	63.156	1.00	0.00	C
ATOM	9145	C	VAL	962	0.994	88.773	65.888	1.00	0.00	C
ATOM	9146	O	VAL	962	0.899	89.830	66.510	1.00	0.00	O
ATOM	9147	N	LEU	963	-0.086	88.073	65.486	1.00	0.00	N
ATOM	9148	HN	LEU	963	0.029	87.240	64.908	1.00	0.00	H
ATOM	9149	CA	LEU	963	-1.396	88.504	65.874	1.00	0.00	C
ATOM	9150	CB	LEU	963	-2.336	88.666	64.675	1.00	0.00	C
ATOM	9151	CG	LEU	963	-1.728	89.456	63.503	1.00	0.00	C
ATOM	9152	CD1	LEU	963	-2.785	89.749	62.434	1.00	0.00	C
ATOM	9153	CD2	LEU	963	-0.971	90.706	63.963	1.00	0.00	C
ATOM	9154	C	LEU	963	-1.986	87.390	66.673	1.00	0.00	C
ATOM	9155	O	LEU	963	-2.312	86.341	66.120	1.00	0.00	O
ATOM	9156	N	GLN	964	-2.146	87.567	67.997	1.00	0.00	N
ATOM	9157	HN	GLN	964	-1.842	88.421	68.465	1.00	0.00	H
ATOM	9158	CA	GLN	964	-2.765	86.496	68.713	1.00	0.00	C
ATOM	9159	CB	GLN	964	-1.833	85.749	69.684	1.00	0.00	C
ATOM	9160	CG	GLN	964	-1.268	86.594	70.824	1.00	0.00	C
ATOM	9161	CD	GLN	964	-0.564	85.641	71.777	1.00	0.00	C
ATOM	9162	OE1	GLN	964	0.239	84.807	71.361	1.00	0.00	O
ATOM	9163	NE2	GLN	964	-0.885	85.753	73.094	1.00	0.00	N
ATOM	9164	1HE2	GLN	964	-0.413	85.114	73.733	1.00	0.00	H
ATOM	9165	2HE2	GLN	964	-1.551	86.444	73.439	1.00	0.00	H
ATOM	9166	C	GLN	964	-3.939	87.038	69.466	1.00	0.00	C
ATOM	9167	O	GLN	964	-3.794	87.614	70.544	1.00	0.00	O
ATOM	9168	N	GLY	965	-5.154	86.818	68.919	1.00	0.00	N
ATOM	9169	HN	GLY	965	-5.218	86.326	68.028	1.00	0.00	H
ATOM	9170	CA	GLY	965	-6.357	87.262	69.565	1.00	0.00	C
ATOM	9171	C	GLY	965	-6.526	88.743	69.425	1.00	0.00	C
ATOM	9172	O	GLY	965	-6.756	89.440	70.412	1.00	0.00	O
ATOM	9173	N	LEU	966	-6.429	89.274	68.189	1.00	0.00	N

ATOM	9174	HN	LEU	966	-6.284	88.667	67.382	1.00	0.00	H
ATOM	9175	CA	LEU	966	-6.530	90.699	68.009	1.00	0.00	C
ATOM	9176	CB	LEU	966	-5.553	91.237	66.954	1.00	0.00	C
ATOM	9177	CG	LEU	966	-5.644	92.757	66.752	1.00	0.00	C
ATOM	9178	CD1	LEU	966	-5.200	93.516	68.012	1.00	0.00	C
ATOM	9179	CD2	LEU	966	-4.891	93.198	65.484	1.00	0.00	C
ATOM	9180	C	LEU	966	-7.916	91.071	67.563	1.00	0.00	C
ATOM	9181	O	LEU	966	-8.554	90.332	66.819	1.00	0.00	O
ATOM	9182	N	SER	967	-8.424	92.230	68.045	1.00	0.00	N
ATOM	9183	HN	SER	967	-7.876	92.774	68.711	1.00	0.00	H
ATOM	9184	CA	SER	967	-9.716	92.713	67.642	1.00	0.00	C
ATOM	9185	CB	SER	967	-10.857	92.167	68.517	1.00	0.00	C
ATOM	9186	OG	SER	967	-10.909	90.750	68.421	1.00	0.00	O
ATOM	9187	HG	SER	967	-11.614	90.413	68.961	1.00	0.00	H
ATOM	9188	C	SER	967	-9.752	94.218	67.746	1.00	0.00	C
ATOM	9189	O	SER	967	-9.507	94.787	68.809	1.00	0.00	O
ATOM	9190	N	LEU	968	-10.079	94.899	66.624	1.00	0.00	N
ATOM	9191	HN	LEU	968	-10.264	94.369	65.773	1.00	0.00	H
ATOM	9192	CA	LEU	968	-10.179	96.335	66.570	1.00	0.00	C
ATOM	9193	CB	LEU	968	-8.923	97.034	66.021	1.00	0.00	C
ATOM	9194	CG	LEU	968	-7.634	96.702	66.795	1.00	0.00	C
ATOM	9195	CD1	LEU	968	-7.765	97.040	68.288	1.00	0.00	C
ATOM	9196	CD2	LEU	968	-7.187	95.259	66.538	1.00	0.00	C
ATOM	9197	C	LEU	968	-11.285	96.623	65.603	1.00	0.00	C
ATOM	9198	O	LEU	968	-11.993	95.717	65.168	1.00	0.00	O
ATOM	9199	N	GLU	969	-11.491	97.909	65.266	1.00	0.00	N
ATOM	9200	HN	GLU	969	-10.913	98.641	65.679	1.00	0.00	H
ATOM	9201	CA	GLU	969	-12.520	98.256	64.329	1.00	0.00	C
ATOM	9202	CB	GLU	969	-13.899	98.395	64.970	1.00	0.00	C
ATOM	9203	CG	GLU	969	-13.856	99.551	65.968	1.00	0.00	C
ATOM	9204	CD	GLU	969	-15.255	100.080	66.207	1.00	0.00	C
ATOM	9205	OE1	GLU	969	-16.170	99.756	65.406	1.00	0.00	O
ATOM	9206	OE2	GLU	969	-15.417	100.837	67.199	1.00	0.00	O
ATOM	9207	C	GLU	969	-12.240	99.655	63.900	1.00	0.00	C
ATOM	9208	O	GLU	969	-11.384	100.335	64.466	1.00	0.00	O
ATOM	9209	N	VAL	970	-12.968	100.116	62.866	1.00	0.00	N
ATOM	9210	HN	VAL	970	-13.616	99.494	62.382	1.00	0.00	H
ATOM	9211	CA	VAL	970	-12.835	101.476	62.445	1.00	0.00	C
ATOM	9212	CB	VAL	970	-11.765	101.640	61.398	1.00	0.00	C
ATOM	9213	CG1	VAL	970	-12.192	100.894	60.123	1.00	0.00	C
ATOM	9214	CG2	VAL	970	-11.471	103.133	61.192	1.00	0.00	C
ATOM	9215	C	VAL	970	-14.162	101.905	61.884	1.00	0.00	C
ATOM	9216	O	VAL	970	-14.752	101.228	61.042	1.00	0.00	O
ATOM	9217	N	LYS	971	-14.646	103.082	62.322	1.00	0.00	N
ATOM	9218	HN	LYS	971	-14.086	103.616	62.986	1.00	0.00	H
ATOM	9219	CA	LYS	971	-15.908	103.627	61.906	1.00	0.00	C
ATOM	9220	CB	LYS	971	-16.276	104.918	62.660	1.00	0.00	C
ATOM	9221	CG	LYS	971	-16.408	104.722	64.174	1.00	0.00	C
ATOM	9222	CD	LYS	971	-15.073	104.452	64.878	1.00	0.00	C
ATOM	9223	CE	LYS	971	-15.215	104.069	66.355	1.00	0.00	C
ATOM	9224	NZ	LYS	971	-13.878	103.838	66.951	1.00	0.00	N
ATOM	9225	HZ1	LYS	971	-13.973	103.583	67.934	1.00	0.00	H
ATOM	9226	HZ2	LYS	971	-13.259	104.638	66.822	1.00	0.00	H
ATOM	9227	HZ3	LYS	971	-13.341	103.147	66.427	1.00	0.00	H
ATOM	9228	C	LYS	971	-15.800	103.958	60.449	1.00	0.00	C
ATOM	9229	O	LYS	971	-14.942	103.433	59.742	1.00	0.00	O
ATOM	9230	N	LYS	972	-16.725	104.797	59.942	1.00	0.00	N
ATOM	9231	HN	LYS	972	-17.447	105.189	60.546	1.00	0.00	H
ATOM	9232	CA	LYS	972	-16.688	105.136	58.546	1.00	0.00	C
ATOM	9233	CB	LYS	972	-18.065	105.106	57.861	1.00	0.00	C
ATOM	9234	CG	LYS	972	-19.017	106.159	58.433	1.00	0.00	C
ATOM	9235	CD	LYS	972	-20.249	106.449	57.575	1.00	0.00	C
ATOM	9236	CE	LYS	972	-20.085	107.641	56.624	1.00	0.00	C
ATOM	9237	NZ	LYS	972	-19.592	107.184	55.305	1.00	0.00	N
ATOM	9238	HZ1	LYS	972	-19.483	107.977	54.673	1.00	0.00	H
ATOM	9239	HZ2	LYS	972	-20.189	106.459	54.906	1.00	0.00	H
ATOM	9240	HZ3	LYS	972	-18.731	106.643	55.388	1.00	0.00	H
ATOM	9241	C	LYS	972	-16.190	106.541	58.389	1.00	0.00	C
ATOM	9242	O	LYS	972	-16.155	107.327	59.333	1.00	0.00	O
ATOM	9243	N	GLY	973	-15.702	106.847	57.171	1.00	0.00	N
ATOM	9244	HN	GLY	973	-15.610	106.093	56.490	1.00	0.00	H
ATOM	9245	CA	GLY	973	-15.304	108.166	56.770	1.00	0.00	C
ATOM	9246	C	GLY	973	-14.395	108.768	57.797	1.00	0.00	C
ATOM	9247	O	GLY	973	-14.340	109.993	57.911	1.00	0.00	O

ATOM	9248	N	GLN	974	-13.633	107.951	58.550	1.00	0.00	N
ATOM	9249	HN	GLN	974	-13.620	106.948	58.366	1.00	0.00	H
ATOM	9250	CA	GLN	974	-12.838	108.502	59.616	1.00	0.00	C
ATOM	9251	CB	GLN	974	-13.527	108.334	60.985	1.00	0.00	C
ATOM	9252	CG	GLN	974	-14.134	106.951	61.234	1.00	0.00	C
ATOM	9253	CD	GLN	974	-13.054	105.894	61.260	1.00	0.00	C
ATOM	9254	OE1	GLN	974	-12.452	105.571	60.238	1.00	0.00	O
ATOM	9255	NE2	GLN	974	-12.821	105.318	62.467	1.00	0.00	N
ATOM	9256	1HE2	GLN	974	-13.320	105.586	63.315	1.00	0.00	H
ATOM	9257	2HE2	GLN	974	-12.092	104.605	62.485	1.00	0.00	H
ATOM	9258	C	GLN	974	-11.405	108.028	59.606	1.00	0.00	C
ATOM	9259	O	GLN	974	-10.839	107.782	58.541	1.00	0.00	O
ATOM	9260	N	THR	975	-10.732	107.979	60.786	1.00	0.00	N
ATOM	9261	HN	THR	975	-11.197	108.193	61.669	1.00	0.00	H
ATOM	9262	CA	THR	975	-9.335	107.613	60.745	1.00	0.00	C
ATOM	9263	CB	THR	975	-8.427	108.808	60.777	1.00	0.00	C
ATOM	9264	OG1	THR	975	-8.716	109.673	59.689	1.00	0.00	O
ATOM	9265	HG1	THR	975	-8.141	110.429	59.709	1.00	0.00	H
ATOM	9266	CG2	THR	975	-6.970	108.325	60.697	1.00	0.00	C
ATOM	9267	C	THR	975	-8.920	106.742	61.898	1.00	0.00	C
ATOM	9268	O	THR	975	-8.850	107.192	63.043	1.00	0.00	O
ATOM	9269	N	LEU	976	-8.538	105.480	61.596	1.00	0.00	N
ATOM	9270	HN	LEU	976	-8.557	105.168	60.625	1.00	0.00	H
ATOM	9271	CA	LEU	976	-8.105	104.571	62.622	1.00	0.00	C
ATOM	9272	CB	LEU	976	-8.390	103.093	62.284	1.00	0.00	C
ATOM	9273	CG	LEU	976	-8.106	102.094	63.428	1.00	0.00	C
ATOM	9274	CD1	LEU	976	-6.606	101.978	63.751	1.00	0.00	C
ATOM	9275	CD2	LEU	976	-8.967	102.420	64.661	1.00	0.00	C
ATOM	9276	C	LEU	976	-6.623	104.755	62.774	1.00	0.00	C
ATOM	9277	O	LEU	976	-5.850	104.534	61.841	1.00	0.00	O
ATOM	9278	N	ALA	977	-6.192	105.152	63.988	1.00	0.00	N
ATOM	9279	HN	ALA	977	-6.864	105.243	64.750	1.00	0.00	H
ATOM	9280	CA	ALA	977	-4.807	105.450	64.235	1.00	0.00	C
ATOM	9281	CB	ALA	977	-4.607	106.593	65.247	1.00	0.00	C
ATOM	9282	C	ALA	977	-4.114	104.245	64.775	1.00	0.00	C
ATOM	9283	O	ALA	977	-4.547	103.624	65.745	1.00	0.00	O
ATOM	9284	N	LEU	978	-2.982	103.877	64.152	1.00	0.00	N
ATOM	9285	HN	LEU	978	-2.597	104.401	63.366	1.00	0.00	H
ATOM	9286	CA	LEU	978	-2.356	102.705	64.665	1.00	0.00	C
ATOM	9287	CB	LEU	978	-2.387	101.532	63.683	1.00	0.00	C
ATOM	9288	CG	LEU	978	-1.719	100.256	64.215	1.00	0.00	C
ATOM	9289	CD1	LEU	978	-2.253	99.874	65.599	1.00	0.00	C
ATOM	9290	CD2	LEU	978	-1.915	99.112	63.216	1.00	0.00	C
ATOM	9291	C	LEU	978	-0.957	102.990	65.106	1.00	0.00	C
ATOM	9292	O	LEU	978	-0.142	103.554	64.374	1.00	0.00	O
ATOM	9293	N	VAL	979	-0.674	102.625	66.373	1.00	0.00	N
ATOM	9294	HN	VAL	979	-1.418	102.245	66.959	1.00	0.00	H
ATOM	9295	CA	VAL	979	0.644	102.757	66.916	1.00	0.00	C
ATOM	9296	CB	VAL	979	0.752	103.844	67.950	1.00	0.00	C
ATOM	9297	CG1	VAL	979	-0.291	103.608	69.059	1.00	0.00	C
ATOM	9298	CG2	VAL	979	2.202	103.874	68.458	1.00	0.00	C
ATOM	9299	C	VAL	979	1.016	101.444	67.539	1.00	0.00	C
ATOM	9300	O	VAL	979	0.431	101.020	68.536	1.00	0.00	O
ATOM	9301	N	GLY	980	2.005	100.749	66.941	1.00	0.00	N
ATOM	9302	HN	GLY	980	2.466	101.132	66.116	1.00	0.00	H
ATOM	9303	CA	GLY	980	2.414	99.472	67.459	1.00	0.00	C
ATOM	9304	C	GLY	980	3.811	99.554	68.000	1.00	0.00	C
ATOM	9305	O	GLY	980	4.343	100.636	68.251	1.00	0.00	O
ATOM	9306	N	SER	981	4.411	98.362	68.228	1.00	0.00	N
ATOM	9307	HN	SER	981	3.875	97.513	68.049	1.00	0.00	H
ATOM	9308	CA	SER	981	5.759	98.223	68.707	1.00	0.00	C
ATOM	9309	CB	SER	981	6.153	96.760	68.954	1.00	0.00	C
ATOM	9310	OG	SER	981	5.215	96.132	69.810	1.00	0.00	O
ATOM	9311	HG	SER	981	5.459	95.227	69.963	1.00	0.00	H
ATOM	9312	C	SER	981	6.696	98.685	67.648	1.00	0.00	C
ATOM	9313	O	SER	981	7.293	99.757	67.727	1.00	0.00	O
ATOM	9314	N	SER	982	6.841	97.844	66.609	1.00	0.00	N
ATOM	9315	HN	SER	982	6.320	96.968	66.593	1.00	0.00	H
ATOM	9316	CA	SER	982	7.716	98.164	65.529	1.00	0.00	C
ATOM	9317	CB	SER	982	9.185	98.308	65.953	1.00	0.00	C
ATOM	9318	OG	SER	982	9.678	97.062	66.423	1.00	0.00	O
ATOM	9319	HG	SER	982	10.587	97.151	66.685	1.00	0.00	H
ATOM	9320	C	SER	982	7.642	97.035	64.559	1.00	0.00	C
ATOM	9321	O	SER	982	7.296	95.910	64.919	1.00	0.00	O

ATOM	9322	N	GLY	983	7.969	97.329	63.287	1.00	0.00	N
ATOM	9323	HN	GLY	983	8.193	98.295	63.046	1.00	0.00	H
ATOM	9324	CA	GLY	983	8.013	96.332	62.260	1.00	0.00	C
ATOM	9325	C	GLY	983	6.678	95.682	62.107	1.00	0.00	C
ATOM	9326	O	GLY	983	5.681	96.316	61.765	1.00	0.00	O
ATOM	9327	N	CYS	984	6.639	94.367	62.377	1.00	0.00	N
ATOM	9328	HN	CYS	984	7.469	93.911	62.755	1.00	0.00	H
ATOM	9329	CA	CYS	984	5.462	93.593	62.147	1.00	0.00	C
ATOM	9330	CB	CYS	984	5.639	92.104	62.489	1.00	0.00	C
ATOM	9331	SG	CYS	984	6.876	91.297	61.430	1.00	0.00	S
ATOM	9332	C	CYS	984	4.337	94.115	62.975	1.00	0.00	C
ATOM	9333	O	CYS	984	4.513	94.959	63.850	1.00	0.00	O
ATOM	9334	N	GLY	985	3.118	93.661	62.632	1.00	0.00	N
ATOM	9335	HN	GLY	985	3.034	93.049	61.820	1.00	0.00	H
ATOM	9336	CA	GLY	985	1.934	94.002	63.361	1.00	0.00	C
ATOM	9337	C	GLY	985	1.152	94.987	62.564	1.00	0.00	C
ATOM	9338	O	GLY	985	0.022	94.720	62.159	1.00	0.00	O
ATOM	9339	N	LYS	986	1.752	96.158	62.303	1.00	0.00	N
ATOM	9340	HN	LYS	986	2.700	96.327	62.639	1.00	0.00	H
ATOM	9341	CA	LYS	986	1.071	97.172	61.556	1.00	0.00	C
ATOM	9342	CB	LYS	986	1.865	98.483	61.529	1.00	0.00	C
ATOM	9343	CG	LYS	986	2.087	99.030	62.938	1.00	0.00	C
ATOM	9344	CD	LYS	986	3.202	100.071	63.031	1.00	0.00	C
ATOM	9345	CE	LYS	986	3.579	100.431	64.469	1.00	0.00	C
ATOM	9346	NZ	LYS	986	4.800	101.269	64.482	1.00	0.00	N
ATOM	9347	HZ1	LYS	986	5.051	101.509	65.441	1.00	0.00	H
ATOM	9348	HZ2	LYS	986	4.700	102.097	63.895	1.00	0.00	H
ATOM	9349	HZ3	LYS	986	5.572	100.825	63.985	1.00	0.00	H
ATOM	9350	C	LYS	986	0.926	96.672	60.158	1.00	0.00	C
ATOM	9351	O	LYS	986	-0.118	96.833	59.526	1.00	0.00	O
ATOM	9352	N	SER	987	2.003	96.047	59.646	1.00	0.00	N
ATOM	9353	HN	SER	987	2.824	95.918	60.237	1.00	0.00	H
ATOM	9354	CA	SER	987	2.037	95.557	58.302	1.00	0.00	C
ATOM	9355	CB	SER	987	3.416	95.002	57.912	1.00	0.00	C
ATOM	9356	OG	SER	987	3.728	93.869	58.708	1.00	0.00	O
ATOM	9357	HG	SER	987	4.580	93.526	58.467	1.00	0.00	H
ATOM	9358	C	SER	987	1.051	94.444	58.154	1.00	0.00	C
ATOM	9359	O	SER	987	0.250	94.444	57.223	1.00	0.00	O
ATOM	9360	N	THR	988	1.066	93.483	59.101	1.00	0.00	N
ATOM	9361	HN	THR	988	1.687	93.587	59.903	1.00	0.00	H
ATOM	9362	CA	THR	988	0.231	92.317	59.010	1.00	0.00	C
ATOM	9363	CB	THR	988	0.412	91.367	60.160	1.00	0.00	C
ATOM	9364	OG1	THR	988	0.049	91.996	61.380	1.00	0.00	O
ATOM	9365	HG1	THR	988	-0.859	92.274	61.348	1.00	0.00	H
ATOM	9366	CG2	THR	988	1.882	90.917	60.212	1.00	0.00	C
ATOM	9367	C	THR	988	-1.200	92.739	59.012	1.00	0.00	C
ATOM	9368	O	THR	988	-2.010	92.199	58.263	1.00	0.00	O
ATOM	9369	N	VAL	989	-1.559	93.720	59.859	1.00	0.00	N
ATOM	9370	HN	VAL	989	-0.869	94.170	60.460	1.00	0.00	H
ATOM	9371	CA	VAL	989	-2.935	94.117	59.896	1.00	0.00	C
ATOM	9372	CB	VAL	989	-3.193	95.231	60.870	1.00	0.00	C
ATOM	9373	CG1	VAL	989	-4.645	95.709	60.703	1.00	0.00	C
ATOM	9374	CG2	VAL	989	-2.867	94.725	62.285	1.00	0.00	C
ATOM	9375	C	VAL	989	-3.339	94.601	58.539	1.00	0.00	C
ATOM	9376	O	VAL	989	-4.309	94.097	57.973	1.00	0.00	O
ATOM	9377	N	VAL	990	-2.572	95.543	57.946	1.00	0.00	N
ATOM	9378	HN	VAL	990	-1.707	95.861	58.383	1.00	0.00	H
ATOM	9379	CA	VAL	990	-3.002	96.088	56.686	1.00	0.00	C
ATOM	9380	CB	VAL	990	-2.125	97.164	56.111	1.00	0.00	C
ATOM	9381	CG1	VAL	990	-2.211	98.383	57.033	1.00	0.00	C
ATOM	9382	CG2	VAL	990	-0.699	96.642	55.893	1.00	0.00	C
ATOM	9383	C	VAL	990	-3.102	94.994	55.688	1.00	0.00	C
ATOM	9384	O	VAL	990	-4.105	94.880	54.985	1.00	0.00	O
ATOM	9385	N	GLN	991	-2.096	94.111	55.655	1.00	0.00	N
ATOM	9386	HN	GLN	991	-1.331	94.189	56.325	1.00	0.00	H
ATOM	9387	CA	GLN	991	-2.087	93.062	54.688	1.00	0.00	C
ATOM	9388	CB	GLN	991	-0.879	92.140	54.887	1.00	0.00	C
ATOM	9389	CG	GLN	991	0.438	92.875	54.624	1.00	0.00	C
ATOM	9390	CD	GLN	991	1.565	92.080	55.255	1.00	0.00	C
ATOM	9391	OE1	GLN	991	2.694	92.556	55.351	1.00	0.00	O
ATOM	9392	NE2	GLN	991	1.249	90.841	55.715	1.00	0.00	N
ATOM	9393	1HE2	GLN	991	0.312	90.446	55.635	1.00	0.00	H
ATOM	9394	2HE2	GLN	991	2.007	90.306	56.139	1.00	0.00	H
ATOM	9395	C	GLN	991	-3.333	92.265	54.873	1.00	0.00	C

ATOM	9396	O	GLN	991	-4.039	92.006	53.906	1.00	0.00	O
ATOM	9397	N	LEU	992	-3.707	91.963	56.128	1.00	0.00	N
ATOM	9398	HN	LEU	992	-3.175	92.331	56.917	1.00	0.00	H
ATOM	9399	CA	LEU	992	-4.849	91.126	56.368	1.00	0.00	C
ATOM	9400	CB	LEU	992	-5.159	90.925	57.860	1.00	0.00	C
ATOM	9401	CG	LEU	992	-4.178	89.965	58.554	1.00	0.00	C
ATOM	9402	CD1	LEU	992	-4.512	89.791	60.044	1.00	0.00	C
ATOM	9403	CD2	LEU	992	-4.122	88.624	57.812	1.00	0.00	C
ATOM	9404	C	LEU	992	-6.070	91.718	55.735	1.00	0.00	C
ATOM	9405	O	LEU	992	-6.899	90.982	55.200	1.00	0.00	O
ATOM	9406	N	LEU	993	-6.231	93.054	55.794	1.00	0.00	N
ATOM	9407	HN	LEU	993	-5.533	93.624	56.273	1.00	0.00	H
ATOM	9408	CA	LEU	993	-7.374	93.690	55.191	1.00	0.00	C
ATOM	9409	CB	LEU	993	-7.380	95.212	55.389	1.00	0.00	C
ATOM	9410	CG	LEU	993	-8.514	95.893	54.604	1.00	0.00	C
ATOM	9411	CD1	LEU	993	-9.892	95.408	55.083	1.00	0.00	C
ATOM	9412	CD2	LEU	993	-8.368	97.422	54.616	1.00	0.00	C
ATOM	9413	C	LEU	993	-7.298	93.451	53.724	1.00	0.00	C
ATOM	9414	O	LEU	993	-8.300	93.222	53.048	1.00	0.00	O
ATOM	9415	N	GLU	994	-6.064	93.521	53.212	1.00	0.00	N
ATOM	9416	HN	GLU	994	-5.300	93.755	53.846	1.00	0.00	H
ATOM	9417	CA	GLU	994	-5.741	93.292	51.843	1.00	0.00	C
ATOM	9418	CB	GLU	994	-4.292	93.665	51.516	1.00	0.00	C
ATOM	9419	CG	GLU	994	-4.093	93.933	50.029	1.00	0.00	C
ATOM	9420	CD	GLU	994	-4.702	95.282	49.690	1.00	0.00	C
ATOM	9421	OE1	GLU	994	-5.943	95.423	49.837	1.00	0.00	O
ATOM	9422	OE2	GLU	994	-3.933	96.190	49.273	1.00	0.00	O
ATOM	9423	C	GLU	994	-5.958	91.830	51.602	1.00	0.00	C
ATOM	9424	O	GLU	994	-5.867	91.338	50.480	1.00	0.00	O
ATOM	9425	N	ARG	995	-6.141	91.076	52.697	1.00	0.00	N
ATOM	9426	HN	ARG	995	-6.092	91.522	53.613	1.00	0.00	H
ATOM	9427	CA	ARG	995	-6.401	89.675	52.631	1.00	0.00	C
ATOM	9428	CB	ARG	995	-7.745	89.354	51.961	1.00	0.00	C
ATOM	9429	CG	ARG	995	-8.091	87.866	51.971	1.00	0.00	C
ATOM	9430	CD	ARG	995	-9.309	87.526	51.121	1.00	0.00	C
ATOM	9431	NE	ARG	995	-9.375	86.045	51.017	1.00	0.00	N
ATOM	9432	HE	ARG	995	-8.578	85.476	51.301	1.00	0.00	H
ATOM	9433	CZ	ARG	995	-10.505	85.451	50.540	1.00	0.00	C
ATOM	9434	NH1	ARG	995	-11.586	86.217	50.209	1.00	0.00	N
ATOM	9435	1HH1	ARG	995	-11.549	87.230	50.321	1.00	0.00	H
ATOM	9436	2HH1	ARG	995	-12.432	85.772	49.852	1.00	0.00	H
ATOM	9437	NH2	ARG	995	-10.554	84.095	50.390	1.00	0.00	N
ATOM	9438	1HH2	ARG	995	-9.747	83.523	50.637	1.00	0.00	H
ATOM	9439	2HH2	ARG	995	-11.400	83.650	50.033	1.00	0.00	H
ATOM	9440	C	ARG	995	-5.300	89.026	51.852	1.00	0.00	C
ATOM	9441	O	ARG	995	-5.563	88.196	50.982	1.00	0.00	O
ATOM	9442	N	PHE	996	-4.035	89.442	52.091	1.00	0.00	N
ATOM	9443	HN	PHE	996	-3.862	90.229	52.717	1.00	0.00	H
ATOM	9444	CA	PHE	996	-2.939	88.769	51.458	1.00	0.00	C
ATOM	9445	CB	PHE	996	-1.572	89.447	51.631	1.00	0.00	C
ATOM	9446	CG	PHE	996	-1.535	90.695	50.826	1.00	0.00	C
ATOM	9447	CD1	PHE	996	-1.929	90.678	49.508	1.00	0.00	C
ATOM	9448	CD2	PHE	996	-1.048	91.862	51.368	1.00	0.00	C
ATOM	9449	CE1	PHE	996	-1.876	91.823	48.752	1.00	0.00	C
ATOM	9450	CE2	PHE	996	-0.990	93.009	50.614	1.00	0.00	C
ATOM	9451	CZ	PHE	996	-1.407	92.990	49.305	1.00	0.00	C
ATOM	9452	C	PHE	996	-2.800	87.427	52.086	1.00	0.00	C
ATOM	9453	O	PHE	996	-2.720	86.404	51.410	1.00	0.00	O
ATOM	9454	N	TYR	997	-2.789	87.419	53.429	1.00	0.00	N
ATOM	9455	HN	TYR	997	-2.881	88.305	53.926	1.00	0.00	H
ATOM	9456	CA	TYR	997	-2.653	86.216	54.188	1.00	0.00	C
ATOM	9457	CB	TYR	997	-1.566	86.306	55.274	1.00	0.00	C
ATOM	9458	CG	TYR	997	-0.293	86.830	54.693	1.00	0.00	C
ATOM	9459	CD1	TYR	997	-0.211	88.160	54.345	1.00	0.00	C
ATOM	9460	CD2	TYR	997	0.819	86.035	54.528	1.00	0.00	C
ATOM	9461	CE1	TYR	997	0.945	88.689	53.825	1.00	0.00	C
ATOM	9462	CE2	TYR	997	1.982	86.559	54.007	1.00	0.00	C
ATOM	9463	CZ	TYR	997	2.047	87.888	53.653	1.00	0.00	C
ATOM	9464	OH	TYR	997	3.238	88.428	53.122	1.00	0.00	O
ATOM	9465	HH	TYR	997	3.283	89.345	52.878	1.00	0.00	H
ATOM	9466	C	TYR	997	-3.944	86.143	54.950	1.00	0.00	C
ATOM	9467	O	TYR	997	-4.442	87.161	55.428	1.00	0.00	O
ATOM	9468	N	ASP	998	-4.543	84.944	55.068	1.00	0.00	N
ATOM	9469	HN	ASP	998	-4.114	84.113	54.661	1.00	0.00	H



ATOM	9470	CA	ASP	998	-5.793	84.844	55.773	1.00	0.00	C
ATOM	9471	CB	ASP	998	-6.732	83.761	55.222	1.00	0.00	C
ATOM	9472	CG	ASP	998	-7.410	84.329	53.991	1.00	0.00	C
ATOM	9473	OD1	ASP	998	-8.112	85.361	54.145	1.00	0.00	O
ATOM	9474	OD2	ASP	998	-7.232	83.752	52.884	1.00	0.00	O
ATOM	9475	C	ASP	998	-5.524	84.506	57.198	1.00	0.00	C
ATOM	9476	O	ASP	998	-4.737	83.614	57.516	1.00	0.00	O
ATOM	9477	N	PRO	999	-6.208	85.212	58.056	1.00	0.00	N
ATOM	9478	CA	PRO	999	-6.058	85.044	59.474	1.00	0.00	C
ATOM	9479	CD	PRO	999	-7.477	85.824	57.700	1.00	0.00	C
ATOM	9480	CB	PRO	999	-7.158	85.901	60.099	1.00	0.00	C
ATOM	9481	CG	PRO	999	-8.257	85.913	59.020	1.00	0.00	C
ATOM	9482	C	PRO	999	-6.196	83.604	59.840	1.00	0.00	C
ATOM	9483	O	PRO	999	-7.049	82.915	59.285	1.00	0.00	O
ATOM	9484	N	LEU	1000	-5.349	83.132	60.771	1.00	0.00	N
ATOM	9485	HN	LEU	1000	-4.657	83.765	61.171	1.00	0.00	H
ATOM	9486	CA	LEU	1000	-5.382	81.775	61.221	1.00	0.00	C
ATOM	9487	CB	LEU	1000	-4.274	81.455	62.240	1.00	0.00	C
ATOM	9488	CG	LEU	1000	-2.856	81.607	61.661	1.00	0.00	C
ATOM	9489	CD1	LEU	1000	-1.786	81.140	62.661	1.00	0.00	C
ATOM	9490	CD2	LEU	1000	-2.742	80.922	60.291	1.00	0.00	C
ATOM	9491	C	LEU	1000	-6.697	81.559	61.895	1.00	0.00	C
ATOM	9492	O	LEU	1000	-7.280	80.485	61.781	1.00	0.00	O
ATOM	9493	N	ALA	1001	-7.198	82.560	62.647	1.00	0.00	N
ATOM	9494	HN	ALA	1001	-6.683	83.434	62.757	1.00	0.00	H
ATOM	9495	CA	ALA	1001	-8.470	82.376	63.292	1.00	0.00	C
ATOM	9496	CB	ALA	1001	-8.364	81.746	64.692	1.00	0.00	C
ATOM	9497	C	ALA	1001	-9.120	83.719	63.451	1.00	0.00	C
ATOM	9498	O	ALA	1001	-8.442	84.739	63.575	1.00	0.00	O
ATOM	9499	N	GLY	1002	-10.471	83.746	63.478	1.00	0.00	N
ATOM	9500	HN	GLY	1002	-10.993	82.873	63.398	1.00	0.00	H
ATOM	9501	CA	GLY	1002	-11.184	84.988	63.618	1.00	0.00	C
ATOM	9502	C	GLY	1002	-11.578	85.445	62.242	1.00	0.00	C
ATOM	9503	O	GLY	1002	-11.384	84.713	61.274	1.00	0.00	O
ATOM	9504	N	LYS	1003	-12.170	86.661	62.119	1.00	0.00	N
ATOM	9505	HN	LYS	1003	-12.307	87.252	62.939	1.00	0.00	H
ATOM	9506	CA	LYS	1003	-12.603	87.110	60.820	1.00	0.00	C
ATOM	9507	CB	LYS	1003	-13.986	86.566	60.416	1.00	0.00	C
ATOM	9508	CG	LYS	1003	-15.074	86.782	61.474	1.00	0.00	C
ATOM	9509	CD	LYS	1003	-15.463	88.242	61.719	1.00	0.00	C
ATOM	9510	CE	LYS	1003	-16.536	88.405	62.803	1.00	0.00	C
ATOM	9511	NZ	LYS	1003	-16.880	89.835	62.988	1.00	0.00	N
ATOM	9512	HZ1	LYS	1003	-17.593	89.943	63.709	1.00	0.00	H
ATOM	9513	HZ2	LYS	1003	-17.159	90.273	62.110	1.00	0.00	H
ATOM	9514	HZ3	LYS	1003	-16.054	90.400	63.185	1.00	0.00	H
ATOM	9515	C	LYS	1003	-12.676	88.610	60.759	1.00	0.00	C
ATOM	9516	O	LYS	1003	-12.413	89.307	61.738	1.00	0.00	O
ATOM	9517	N	VAL	1004	-13.011	89.163	59.567	1.00	0.00	N
ATOM	9518	HN	VAL	1004	-13.196	88.577	58.753	1.00	0.00	H
ATOM	9519	CA	VAL	1004	-13.100	90.598	59.477	1.00	0.00	C
ATOM	9520	CB	VAL	1004	-11.880	91.250	58.913	1.00	0.00	C
ATOM	9521	CG1	VAL	1004	-10.694	90.859	59.793	1.00	0.00	C
ATOM	9522	CG2	VAL	1004	-11.700	90.831	57.462	1.00	0.00	C
ATOM	9523	C	VAL	1004	-14.282	90.996	58.645	1.00	0.00	C
ATOM	9524	O	VAL	1004	-14.967	90.149	58.085	1.00	0.00	O
ATOM	9525	N	LEU	1005	-14.606	92.310	58.617	1.00	0.00	N
ATOM	9526	HN	LEU	1005	-14.053	92.971	59.162	1.00	0.00	H
ATOM	9527	CA	LEU	1005	-15.718	92.799	57.832	1.00	0.00	C
ATOM	9528	CB	LEU	1005	-17.012	92.972	58.654	1.00	0.00	C
ATOM	9529	CG	LEU	1005	-17.501	91.708	59.388	1.00	0.00	C
ATOM	9530	CD1	LEU	1005	-16.532	91.317	60.516	1.00	0.00	C
ATOM	9531	CD2	LEU	1005	-18.945	91.876	59.893	1.00	0.00	C
ATOM	9532	C	LEU	1005	-15.379	94.190	57.369	1.00	0.00	C
ATOM	9533	O	LEU	1005	-15.429	95.137	58.149	1.00	0.00	O
ATOM	9534	N	LEU	1006	-15.110	94.372	56.065	1.00	0.00	N
ATOM	9535	HN	LEU	1006	-15.144	93.572	55.434	1.00	0.00	H
ATOM	9536	CA	LEU	1006	-14.775	95.668	55.537	1.00	0.00	C
ATOM	9537	CB	LEU	1006	-14.536	95.708	54.020	1.00	0.00	C
ATOM	9538	CG	LEU	1006	-15.827	95.526	53.200	1.00	0.00	C
ATOM	9539	CD1	LEU	1006	-15.540	95.573	51.692	1.00	0.00	C
ATOM	9540	CD2	LEU	1006	-16.580	94.253	53.619	1.00	0.00	C
ATOM	9541	C	LEU	1006	-15.957	96.537	55.753	1.00	0.00	C
ATOM	9542	O	LEU	1006	-15.881	97.760	55.662	1.00	0.00	O
ATOM	9543	N	ASP	1007	-17.122	95.901	55.904	1.00	0.00	N

ATOM	9544	HN	ASP	1007	-17.161	94.882	55.868	1.00	0.00	H
ATOM	9545	CA	ASP	1007	-18.307	96.657	56.115	1.00	0.00	C
ATOM	9546	CB	ASP	1007	-18.875	97.199	54.793	1.00	0.00	C
ATOM	9547	CG	ASP	1007	-20.125	98.019	55.073	1.00	0.00	C
ATOM	9548	OD1	ASP	1007	-20.246	98.570	56.200	1.00	0.00	O
ATOM	9549	OD2	ASP	1007	-20.986	98.093	54.157	1.00	0.00	O
ATOM	9550	C	ASP	1007	-19.310	95.692	56.647	1.00	0.00	C
ATOM	9551	O	ASP	1007	-19.620	95.668	57.835	1.00	0.00	O
ATOM	9552	N	GLY	1008	-19.947	94.975	55.710	1.00	0.00	N
ATOM	9553	HN	GLY	1008	-19.668	95.119	54.740	1.00	0.00	H
ATOM	9554	CA	GLY	1008	-20.985	94.026	55.961	1.00	0.00	C
ATOM	9555	C	GLY	1008	-20.646	92.612	56.323	1.00	0.00	C
ATOM	9556	O	GLY	1008	-21.321	92.038	57.177	1.00	0.00	O
ATOM	9557	N	LYS	1009	-19.658	91.968	55.659	1.00	0.00	N
ATOM	9558	HN	LYS	1009	-19.006	92.441	55.033	1.00	0.00	H
ATOM	9559	CA	LYS	1009	-19.613	90.556	55.919	1.00	0.00	C
ATOM	9560	CB	LYS	1009	-20.577	89.749	55.029	1.00	0.00	C
ATOM	9561	CG	LYS	1009	-21.986	90.344	54.927	1.00	0.00	C
ATOM	9562	CD	LYS	1009	-22.061	91.540	53.970	1.00	0.00	C
ATOM	9563	CE	LYS	1009	-23.455	92.165	53.843	1.00	0.00	C
ATOM	9564	NZ	LYS	1009	-23.587	93.309	54.778	1.00	0.00	N
ATOM	9565	HZ1	LYS	1009	-24.515	93.725	54.693	1.00	0.00	H
ATOM	9566	HZ2	LYS	1009	-22.846	93.998	54.646	1.00	0.00	H
ATOM	9567	HZ3	LYS	1009	-23.374	93.043	55.739	1.00	0.00	H
ATOM	9568	C	LYS	1009	-18.253	90.024	55.640	1.00	0.00	C
ATOM	9569	O	LYS	1009	-17.575	90.451	54.704	1.00	0.00	O
ATOM	9570	N	GLU	1010	-17.927	88.962	56.400	1.00	0.00	N
ATOM	9571	HN	GLU	1010	-18.685	88.557	56.950	1.00	0.00	H
ATOM	9572	CA	GLU	1010	-16.654	88.332	56.532	1.00	0.00	C
ATOM	9573	CB	GLU	1010	-16.734	86.820	56.816	1.00	0.00	C
ATOM	9574	CG	GLU	1010	-17.299	86.503	58.203	1.00	0.00	C
ATOM	9575	CD	GLU	1010	-17.232	84.997	58.413	1.00	0.00	C
ATOM	9576	OE1	GLU	1010	-16.894	84.281	57.433	1.00	0.00	O
ATOM	9577	OE2	GLU	1010	-17.510	84.541	59.554	1.00	0.00	O
ATOM	9578	C	GLU	1010	-15.757	88.543	55.376	1.00	0.00	C
ATOM	9579	O	GLU	1010	-15.938	88.024	54.276	1.00	0.00	O
ATOM	9580	N	ILE	1011	-14.684	89.314	55.665	1.00	0.00	N
ATOM	9581	HN	ILE	1011	-14.664	89.834	56.542	1.00	0.00	H
ATOM	9582	CA	ILE	1011	-13.591	89.414	54.776	1.00	0.00	C
ATOM	9583	CB	ILE	1011	-12.835	90.702	54.775	1.00	0.00	C
ATOM	9584	CG1	ILE	1011	-13.727	91.837	54.266	1.00	0.00	C
ATOM	9585	CG2	ILE	1011	-11.549	90.495	53.959	1.00	0.00	C
ATOM	9586	CD1	ILE	1011	-13.032	93.189	54.273	1.00	0.00	C
ATOM	9587	C	ILE	1011	-12.720	88.325	55.274	1.00	0.00	C
ATOM	9588	O	ILE	1011	-11.694	88.548	55.913	1.00	0.00	O
ATOM	9589	N	LYS	1012	-13.379	87.161	55.358	1.00	0.00	N
ATOM	9590	HN	LYS	1012	-14.384	87.246	55.512	1.00	0.00	H
ATOM	9591	CA	LYS	1012	-12.903	85.841	55.267	1.00	0.00	C
ATOM	9592	CB	LYS	1012	-13.665	84.897	56.201	1.00	0.00	C
ATOM	9593	CG	LYS	1012	-13.127	83.473	56.148	1.00	0.00	C
ATOM	9594	CD	LYS	1012	-13.552	82.603	57.329	1.00	0.00	C
ATOM	9595	CE	LYS	1012	-12.886	81.227	57.331	1.00	0.00	C
ATOM	9596	NZ	LYS	1012	-11.441	81.368	57.624	1.00	0.00	N
ATOM	9597	HZ1	LYS	1012	-10.997	80.450	57.625	1.00	0.00	H
ATOM	9598	HZ2	LYS	1012	-11.274	81.876	58.493	1.00	0.00	H
ATOM	9599	HZ3	LYS	1012	-10.981	82.015	56.983	1.00	0.00	H
ATOM	9600	C	LYS	1012	-13.285	85.523	53.866	1.00	0.00	C
ATOM	9601	O	LYS	1012	-12.486	85.137	53.014	1.00	0.00	O
ATOM	9602	N	ARG	1013	-14.592	85.778	53.600	1.00	0.00	N
ATOM	9603	HN	ARG	1013	-15.212	86.116	54.336	1.00	0.00	H
ATOM	9604	CA	ARG	1013	-15.088	85.568	52.280	1.00	0.00	C
ATOM	9605	CB	ARG	1013	-15.816	84.236	52.001	1.00	0.00	C
ATOM	9606	CG	ARG	1013	-17.083	83.931	52.792	1.00	0.00	C
ATOM	9607	CD	ARG	1013	-17.726	82.624	52.319	1.00	0.00	C
ATOM	9608	NE	ARG	1013	-16.654	81.586	52.299	1.00	0.00	N
ATOM	9609	HE	ARG	1013	-16.493	81.011	53.126	1.00	0.00	H
ATOM	9610	CZ	ARG	1013	-15.886	81.397	51.185	1.00	0.00	C
ATOM	9611	NH1	ARG	1013	-16.113	82.135	50.058	1.00	0.00	N
ATOM	9612	1HH1	ARG	1013	-15.540	81.994	49.226	1.00	0.00	H
ATOM	9613	2HH1	ARG	1013	-16.862	82.828	50.048	1.00	0.00	H
ATOM	9614	NH2	ARG	1013	-14.884	80.470	51.198	1.00	0.00	N
ATOM	9615	1HH2	ARG	1013	-14.311	80.329	50.366	1.00	0.00	H
ATOM	9616	2HH2	ARG	1013	-14.715	79.919	52.039	1.00	0.00	H
ATOM	9617	C	ARG	1013	-15.924	86.722	51.848	1.00	0.00	C

ATOM	9618	O	ARG	1013	-17.068	86.918	52.262	1.00	0.00	O
ATOM	9619	N	LEU	1014	-15.290	87.532	50.995	1.00	0.00	N
ATOM	9620	HN	LEU	1014	-14.310	87.306	50.826	1.00	0.00	H
ATOM	9621	CA	LEU	1014	-15.785	88.668	50.285	1.00	0.00	C
ATOM	9622	CB	LEU	1014	-15.402	90.003	50.947	1.00	0.00	C
ATOM	9623	CG	LEU	1014	-15.924	91.245	50.206	1.00	0.00	C
ATOM	9624	CD1	LEU	1014	-17.460	91.287	50.203	1.00	0.00	C
ATOM	9625	CD2	LEU	1014	-15.298	92.531	50.768	1.00	0.00	C
ATOM	9626	C	LEU	1014	-15.001	88.549	49.017	1.00	0.00	C
ATOM	9627	O	LEU	1014	-13.883	88.040	49.061	1.00	0.00	O
ATOM	9628	N	ASN	1015	-15.535	88.983	47.859	1.00	0.00	N
ATOM	9629	HN	ASN	1015	-16.444	89.445	47.841	1.00	0.00	H
ATOM	9630	CA	ASN	1015	-14.783	88.775	46.646	1.00	0.00	C
ATOM	9631	CB	ASN	1015	-15.485	89.326	45.390	1.00	0.00	C
ATOM	9632	CG	ASN	1015	-14.689	88.952	44.140	1.00	0.00	C
ATOM	9633	OD1	ASN	1015	-13.473	89.122	44.072	1.00	0.00	O
ATOM	9634	ND2	ASN	1015	-15.407	88.430	43.110	1.00	0.00	N
ATOM	9635	1HD2	ASN	1015	-14.876	88.180	42.276	1.00	0.00	H
ATOM	9636	2HD2	ASN	1015	-16.416	88.289	43.166	1.00	0.00	H
ATOM	9637	C	ASN	1015	-13.495	89.514	46.780	1.00	0.00	C
ATOM	9638	O	ASN	1015	-13.486	90.740	46.835	1.00	0.00	O
ATOM	9639	N	VAL	1016	-12.365	88.780	46.743	1.00	0.00	N
ATOM	9640	HN	VAL	1016	-12.427	87.781	46.545	1.00	0.00	H
ATOM	9641	CA	VAL	1016	-11.077	89.369	46.975	1.00	0.00	C
ATOM	9642	CB	VAL	1016	-9.943	88.400	46.817	1.00	0.00	C
ATOM	9643	CG1	VAL	1016	-8.639	89.199	46.772	1.00	0.00	C
ATOM	9644	CG2	VAL	1016	-9.961	87.417	47.991	1.00	0.00	C
ATOM	9645	C	VAL	1016	-10.802	90.468	46.004	1.00	0.00	C
ATOM	9646	O	VAL	1016	-10.380	91.549	46.414	1.00	0.00	O
ATOM	9647	N	GLN	1017	-11.048	90.247	44.700	1.00	0.00	N
ATOM	9648	HN	GLN	1017	-11.480	89.380	44.381	1.00	0.00	H
ATOM	9649	CA	GLN	1017	-10.678	91.279	43.776	1.00	0.00	C
ATOM	9650	CB	GLN	1017	-10.894	90.933	42.301	1.00	0.00	C
ATOM	9651	CG	GLN	1017	-9.853	89.932	41.814	1.00	0.00	C
ATOM	9652	CD	GLN	1017	-9.920	89.889	40.302	1.00	0.00	C
ATOM	9653	OE1	GLN	1017	-10.506	88.974	39.729	1.00	0.00	O
ATOM	9654	NE2	GLN	1017	-9.310	90.906	39.635	1.00	0.00	N
ATOM	9655	1HE2	GLN	1017	-8.823	91.666	40.111	1.00	0.00	H
ATOM	9656	2HE2	GLN	1017	-9.355	90.877	38.616	1.00	0.00	H
ATOM	9657	C	GLN	1017	-11.430	92.525	44.085	1.00	0.00	C
ATOM	9658	O	GLN	1017	-10.885	93.623	43.988	1.00	0.00	O
ATOM	9659	N	TRP	1018	-12.716	92.397	44.438	1.00	0.00	N
ATOM	9660	HN	TRP	1018	-13.164	91.481	44.457	1.00	0.00	H
ATOM	9661	CA	TRP	1018	-13.446	93.579	44.788	1.00	0.00	C
ATOM	9662	CB	TRP	1018	-14.959	93.403	44.900	1.00	0.00	C
ATOM	9663	CG	TRP	1018	-15.588	94.705	45.320	1.00	0.00	C
ATOM	9664	CD2	TRP	1018	-15.986	95.005	46.666	1.00	0.00	C
ATOM	9665	CD1	TRP	1018	-15.871	95.808	44.573	1.00	0.00	C
ATOM	9666	NE1	TRP	1018	-16.423	96.784	45.370	1.00	0.00	N
ATOM	9667	HE1	TRP	1018	-16.725	97.707	45.059	1.00	0.00	H
ATOM	9668	CE2	TRP	1018	-16.499	96.303	46.660	1.00	0.00	C
ATOM	9669	CE3	TRP	1018	-15.926	94.266	47.809	1.00	0.00	C
ATOM	9670	CZ2	TRP	1018	-16.966	96.881	47.806	1.00	0.00	C
ATOM	9671	CZ3	TRP	1018	-16.401	94.850	48.963	1.00	0.00	C
ATOM	9672	CH2	TRP	1018	-16.910	96.132	48.959	1.00	0.00	C
ATOM	9673	C	TRP	1018	-12.982	94.117	46.103	1.00	0.00	C
ATOM	9674	O	TRP	1018	-12.915	95.334	46.283	1.00	0.00	O
ATOM	9675	N	LEU	1019	-12.658	93.226	47.063	1.00	0.00	N
ATOM	9676	HN	LEU	1019	-12.710	92.226	46.867	1.00	0.00	H
ATOM	9677	CA	LEU	1019	-12.240	93.682	48.362	1.00	0.00	C
ATOM	9678	CB	LEU	1019	-11.774	92.540	49.278	1.00	0.00	C
ATOM	9679	CG	LEU	1019	-11.235	93.034	50.633	1.00	0.00	C
ATOM	9680	CD1	LEU	1019	-12.326	93.753	51.439	1.00	0.00	C
ATOM	9681	CD2	LEU	1019	-10.559	91.895	51.414	1.00	0.00	C
ATOM	9682	C	LEU	1019	-11.064	94.574	48.138	1.00	0.00	C
ATOM	9683	O	LEU	1019	-10.963	95.654	48.713	1.00	0.00	O
ATOM	9684	N	ARG	1020	-10.157	94.142	47.253	1.00	0.00	N
ATOM	9685	HN	ARG	1020	-10.307	93.240	46.802	1.00	0.00	H
ATOM	9686	CA	ARG	1020	-8.984	94.893	46.912	1.00	0.00	C
ATOM	9687	CB	ARG	1020	-7.885	94.049	46.243	1.00	0.00	C
ATOM	9688	CG	ARG	1020	-7.363	92.989	47.223	1.00	0.00	C
ATOM	9689	CD	ARG	1020	-5.870	92.683	47.113	1.00	0.00	C
ATOM	9690	NE	ARG	1020	-5.634	91.795	45.945	1.00	0.00	N
ATOM	9691	HE	ARG	1020	-5.582	92.186	45.004	1.00	0.00	H

ATOM	9692	CZ	ARG	1020	-5.488	90.452	46.141	1.00	0.00	C
ATOM	9693	NH1	ARG	1020	-5.645	89.923	47.388	1.00	0.00	N
ATOM	9694	1HH1	ARG	1020	-5.886	90.528	48.173	1.00	0.00	H
ATOM	9695	2HH1	ARG	1020	-5.536	88.919	47.534	1.00	0.00	H
ATOM	9696	NH2	ARG	1020	-5.165	89.643	45.091	1.00	0.00	N
ATOM	9697	1HH2	ARG	1020	-5.048	90.039	44.158	1.00	0.00	H
ATOM	9698	2HH2	ARG	1020	-5.056	88.639	45.237	1.00	0.00	H
ATOM	9699	C	ARG	1020	-9.349	96.067	46.060	1.00	0.00	C
ATOM	9700	O	ARG	1020	-8.528	96.951	45.835	1.00	0.00	O
ATOM	9701	N	ALA	1021	-10.567	96.081	45.498	1.00	0.00	N
ATOM	9702	HN	ALA	1021	-11.207	95.299	45.637	1.00	0.00	H
ATOM	9703	CA	ALA	1021	-10.961	97.204	44.701	1.00	0.00	C
ATOM	9704	CB	ALA	1021	-12.422	97.126	44.226	1.00	0.00	C
ATOM	9705	C	ALA	1021	-10.825	98.415	45.578	1.00	0.00	C
ATOM	9706	O	ALA	1021	-10.322	99.448	45.140	1.00	0.00	O
ATOM	9707	N	HIS	1022	-11.237	98.315	46.859	1.00	0.00	N
ATOM	9708	HN	HIS	1022	-11.636	97.444	47.208	1.00	0.00	H
ATOM	9709	CA	HIS	1022	-11.104	99.455	47.723	1.00	0.00	C
ATOM	9710	ND1	HIS	1022	-14.025	100.913	47.320	1.00	0.00	N
ATOM	9711	HD1	HIS	1022	-13.487	101.769	47.187	1.00	0.00	H
ATOM	9712	CG	HIS	1022	-13.620	99.785	47.997	1.00	0.00	C
ATOM	9713	CB	HIS	1022	-12.293	99.639	48.682	1.00	0.00	C
ATOM	9714	NE2	HIS	1022	-15.707	99.462	47.201	1.00	0.00	N
ATOM	9715	HE2	HIS	1022	-16.608	99.036	46.984	1.00	0.00	H
ATOM	9716	CD2	HIS	1022	-14.659	98.908	47.913	1.00	0.00	C
ATOM	9717	CE1	HIS	1022	-15.280	100.666	46.864	1.00	0.00	C
ATOM	9718	C	HIS	1022	-9.900	99.264	48.598	1.00	0.00	C
ATOM	9719	O	HIS	1022	-9.878	98.384	49.456	1.00	0.00	O
ATOM	9720	N	LEU	1023	-8.849	100.086	48.399	1.00	0.00	N
ATOM	9721	HN	LEU	1023	-8.876	100.784	47.655	1.00	0.00	H
ATOM	9722	CA	LEU	1023	-7.693	99.971	49.242	1.00	0.00	C
ATOM	9723	CB	LEU	1023	-6.931	98.640	49.011	1.00	0.00	C
ATOM	9724	CG	LEU	1023	-6.241	98.458	47.636	1.00	0.00	C
ATOM	9725	CD1	LEU	1023	-5.889	96.986	47.375	1.00	0.00	C
ATOM	9726	CD2	LEU	1023	-7.013	99.126	46.487	1.00	0.00	C
ATOM	9727	C	LEU	1023	-6.794	101.144	48.967	1.00	0.00	C
ATOM	9728	O	LEU	1023	-5.986	101.137	48.043	1.00	0.00	O
ATOM	9729	N	GLY	1024	-6.879	102.208	49.783	1.00	0.00	N
ATOM	9730	HN	GLY	1024	-7.529	102.234	50.569	1.00	0.00	H
ATOM	9731	CA	GLY	1024	-6.006	103.304	49.488	1.00	0.00	C
ATOM	9732	C	GLY	1024	-4.719	102.982	50.159	1.00	0.00	C
ATOM	9733	O	GLY	1024	-4.435	103.480	51.243	1.00	0.00	O
ATOM	9734	N	ILE	1025	-3.877	102.176	49.488	1.00	0.00	N
ATOM	9735	HN	ILE	1025	-4.101	101.893	48.534	1.00	0.00	H
ATOM	9736	CA	ILE	1025	-2.669	101.712	50.101	1.00	0.00	C
ATOM	9737	CB	ILE	1025	-2.462	100.233	49.871	1.00	0.00	C
ATOM	9738	CG1	ILE	1025	-1.442	99.619	50.845	1.00	0.00	C
ATOM	9739	CG2	ILE	1025	-2.132	100.032	48.383	1.00	0.00	C
ATOM	9740	CD1	ILE	1025	-0.023	100.143	50.698	1.00	0.00	C
ATOM	9741	C	ILE	1025	-1.513	102.487	49.545	1.00	0.00	C
ATOM	9742	O	ILE	1025	-1.471	102.807	48.358	1.00	0.00	O
ATOM	9743	N	VAL	1026	-0.597	102.899	50.443	1.00	0.00	N
ATOM	9744	HN	VAL	1026	-0.786	102.722	51.430	1.00	0.00	H
ATOM	9745	CA	VAL	1026	0.626	103.570	50.106	1.00	0.00	C
ATOM	9746	CB	VAL	1026	0.480	105.064	50.092	1.00	0.00	C
ATOM	9747	CG1	VAL	1026	1.866	105.702	49.904	1.00	0.00	C
ATOM	9748	CG2	VAL	1026	-0.523	105.436	48.986	1.00	0.00	C
ATOM	9749	C	VAL	1026	1.571	103.193	51.209	1.00	0.00	C
ATOM	9750	O	VAL	1026	1.212	103.293	52.382	1.00	0.00	O
ATOM	9751	N	SER	1027	2.813	102.776	50.873	1.00	0.00	N
ATOM	9752	HN	SER	1027	3.123	102.823	49.902	1.00	0.00	H
ATOM	9753	CA	SER	1027	3.696	102.266	51.890	1.00	0.00	C
ATOM	9754	CB	SER	1027	3.967	100.753	51.736	1.00	0.00	C
ATOM	9755	OG	SER	1027	4.734	100.251	52.821	1.00	0.00	O
ATOM	9756	HG	SER	1027	4.901	99.321	52.726	1.00	0.00	H
ATOM	9757	C	SER	1027	5.010	102.979	51.830	1.00	0.00	C
ATOM	9758	O	SER	1027	5.241	103.828	50.970	1.00	0.00	O
ATOM	9759	N	GLN	1028	5.925	102.622	52.757	1.00	0.00	N
ATOM	9760	HN	GLN	1028	5.748	101.830	53.376	1.00	0.00	H
ATOM	9761	CA	GLN	1028	7.139	103.360	52.864	1.00	0.00	C
ATOM	9762	CB	GLN	1028	7.989	102.979	54.094	1.00	0.00	C
ATOM	9763	CG	GLN	1028	8.400	101.515	54.226	1.00	0.00	C
ATOM	9764	CD	GLN	1028	8.882	101.344	55.663	1.00	0.00	C
ATOM	9765	OE1	GLN	1028	8.146	101.607	56.614	1.00	0.00	O

ATOM	9766	NE2	GLN	1028	10.156	100.902	55.829	1.00	0.00	N
ATOM	9767	1HE2	GLN	1028	10.478	100.788	56.790	1.00	0.00	H
ATOM	9768	2HE2	GLN	1028	10.766	100.684	55.041	1.00	0.00	H
ATOM	9769	C	GLN	1028	7.901	103.368	51.576	1.00	0.00	C
ATOM	9770	O	GLN	1028	8.206	104.452	51.083	1.00	0.00	O
ATOM	9771	N	GLU	1029	8.172	102.217	50.932	1.00	0.00	N
ATOM	9772	HN	GLU	1029	7.902	101.308	51.307	1.00	0.00	H
ATOM	9773	CA	GLU	1029	8.867	102.354	49.680	1.00	0.00	C
ATOM	9774	CB	GLU	1029	10.016	101.345	49.491	1.00	0.00	C
ATOM	9775	CG	GLU	1029	9.588	99.906	49.226	1.00	0.00	C
ATOM	9776	CD	GLU	1029	9.794	99.659	47.741	1.00	0.00	C
ATOM	9777	OE1	GLU	1029	10.662	100.358	47.153	1.00	0.00	O
ATOM	9778	OE2	GLU	1029	9.102	98.771	47.176	1.00	0.00	O
ATOM	9779	C	GLU	1029	7.845	102.187	48.595	1.00	0.00	C
ATOM	9780	O	GLU	1029	7.262	101.121	48.404	1.00	0.00	O
ATOM	9781	N	PRO	1030	7.620	103.260	47.887	1.00	0.00	N
ATOM	9782	CA	PRO	1030	6.663	103.333	46.818	1.00	0.00	C
ATOM	9783	CD	PRO	1030	8.120	104.567	48.272	1.00	0.00	C
ATOM	9784	CB	PRO	1030	6.409	104.824	46.593	1.00	0.00	C
ATOM	9785	CG	PRO	1030	7.669	105.508	47.146	1.00	0.00	C
ATOM	9786	C	PRO	1030	7.292	102.672	45.634	1.00	0.00	C
ATOM	9787	O	PRO	1030	8.283	101.968	45.810	1.00	0.00	O
ATOM	9788	N	ILE	1031	6.660	102.757	44.451	1.00	0.00	N
ATOM	9789	HN	ILE	1031	5.733	103.178	44.392	1.00	0.00	H
ATOM	9790	CA	ILE	1031	7.303	102.249	43.271	1.00	0.00	C
ATOM	9791	CB	ILE	1031	7.652	100.793	43.341	1.00	0.00	C
ATOM	9792	CG1	ILE	1031	8.475	100.400	42.101	1.00	0.00	C
ATOM	9793	CG2	ILE	1031	6.357	99.987	43.531	1.00	0.00	C
ATOM	9794	CD1	ILE	1031	9.081	99.005	42.167	1.00	0.00	C
ATOM	9795	C	ILE	1031	6.384	102.434	42.106	1.00	0.00	C
ATOM	9796	O	ILE	1031	5.181	102.615	42.286	1.00	0.00	O
ATOM	9797	N	LEU	1032	6.933	102.407	40.870	1.00	0.00	N
ATOM	9798	HN	LEU	1032	7.944	102.330	40.762	1.00	0.00	H
ATOM	9799	CA	LEU	1032	6.088	102.487	39.708	1.00	0.00	C
ATOM	9800	CB	LEU	1032	5.954	103.892	39.073	1.00	0.00	C
ATOM	9801	CG	LEU	1032	5.748	105.116	39.989	1.00	0.00	C
ATOM	9802	CD1	LEU	1032	4.591	104.947	40.977	1.00	0.00	C
ATOM	9803	CD2	LEU	1032	7.069	105.579	40.616	1.00	0.00	C
ATOM	9804	C	LEU	1032	6.776	101.742	38.594	1.00	0.00	C
ATOM	9805	O	LEU	1032	7.994	101.837	38.441	1.00	0.00	O
ATOM	9806	N	PHE	1033	6.006	101.001	37.767	1.00	0.00	N
ATOM	9807	HN	PHE	1033	5.015	100.885	37.978	1.00	0.00	H
ATOM	9808	CA	PHE	1033	6.556	100.371	36.592	1.00	0.00	C
ATOM	9809	CB	PHE	1033	5.637	99.307	35.959	1.00	0.00	C
ATOM	9810	CG	PHE	1033	6.361	98.681	34.814	1.00	0.00	C
ATOM	9811	CD1	PHE	1033	7.493	97.934	35.039	1.00	0.00	C
ATOM	9812	CD2	PHE	1033	5.901	98.808	33.522	1.00	0.00	C
ATOM	9813	CE1	PHE	1033	8.172	97.346	33.999	1.00	0.00	C
ATOM	9814	CE2	PHE	1033	6.575	98.220	32.475	1.00	0.00	C
ATOM	9815	CZ	PHE	1033	7.716	97.489	32.712	1.00	0.00	C
ATOM	9816	C	PHE	1033	6.745	101.516	35.633	1.00	0.00	C
ATOM	9817	O	PHE	1033	6.080	102.542	35.758	1.00	0.00	O
ATOM	9818	N	ASP	1034	7.620	101.337	34.627	1.00	0.00	N
ATOM	9819	HN	ASP	1034	7.964	100.385	34.500	1.00	0.00	H
ATOM	9820	CA	ASP	1034	8.132	102.317	33.708	1.00	0.00	C
ATOM	9821	CB	ASP	1034	9.478	101.956	33.044	1.00	0.00	C
ATOM	9822	CG	ASP	1034	9.437	100.550	32.493	1.00	0.00	C
ATOM	9823	OD1	ASP	1034	9.566	99.612	33.322	1.00	0.00	O
ATOM	9824	OD2	ASP	1034	9.311	100.388	31.250	1.00	0.00	O
ATOM	9825	C	ASP	1034	7.192	102.968	32.738	1.00	0.00	C
ATOM	9826	O	ASP	1034	7.632	103.409	31.677	1.00	0.00	O
ATOM	9827	N	CYS	1035	5.870	102.922	32.967	1.00	0.00	N
ATOM	9828	HN	CYS	1035	5.485	102.363	33.729	1.00	0.00	H
ATOM	9829	CA	CYS	1035	5.016	103.688	32.101	1.00	0.00	C
ATOM	9830	CB	CYS	1035	3.522	103.352	32.249	1.00	0.00	C
ATOM	9831	SG	CYS	1035	3.149	101.636	31.778	1.00	0.00	S
ATOM	9832	C	CYS	1035	5.204	105.141	32.451	1.00	0.00	C
ATOM	9833	O	CYS	1035	5.870	105.494	33.423	1.00	0.00	O
ATOM	9834	N	SER	1036	4.643	106.034	31.618	1.00	0.00	N
ATOM	9835	HN	SER	1036	4.162	105.691	30.787	1.00	0.00	H
ATOM	9836	CA	SER	1036	4.692	107.445	31.848	1.00	0.00	C
ATOM	9837	CB	SER	1036	3.919	108.154	30.727	1.00	0.00	C
ATOM	9838	OG	SER	1036	3.932	109.554	30.904	1.00	0.00	O
ATOM	9839	HG	SER	1036	3.454	109.993	30.210	1.00	0.00	H

ATOM	9840	C	SER	1036	3.968	107.638	33.149	1.00	0.00	C
ATOM	9841	O	SER	1036	3.155	106.800	33.529	1.00	0.00	O
ATOM	9842	N	ILE	1037	4.239	108.737	33.881	1.00	0.00	N
ATOM	9843	HN	ILE	1037	4.902	109.428	33.530	1.00	0.00	H
ATOM	9844	CA	ILE	1037	3.600	108.942	35.153	1.00	0.00	C
ATOM	9845	CB	ILE	1037	3.984	110.227	35.817	1.00	0.00	C
ATOM	9846	CG1	ILE	1037	3.561	111.408	34.930	1.00	0.00	C
ATOM	9847	CG2	ILE	1037	5.485	110.173	36.155	1.00	0.00	C
ATOM	9848	CD1	ILE	1037	3.495	112.739	35.669	1.00	0.00	C
ATOM	9849	C	ILE	1037	2.127	109.005	34.921	1.00	0.00	C
ATOM	9850	O	ILE	1037	1.336	108.587	35.762	1.00	0.00	O
ATOM	9851	N	ALA	1038	1.717	109.562	33.769	1.00	0.00	N
ATOM	9852	HN	ALA	1038	2.402	109.890	33.088	1.00	0.00	H
ATOM	9853	CA	ALA	1038	0.317	109.694	33.499	1.00	0.00	C
ATOM	9854	CB	ALA	1038	0.034	110.287	32.108	1.00	0.00	C
ATOM	9855	C	ALA	1038	-0.314	108.332	33.550	1.00	0.00	C
ATOM	9856	O	ALA	1038	-1.424	108.180	34.058	1.00	0.00	O
ATOM	9857	N	GLU	1039	0.362	107.310	32.989	1.00	0.00	N
ATOM	9858	HN	GLU	1039	1.261	107.506	32.548	1.00	0.00	H
ATOM	9859	CA	GLU	1039	-0.124	105.955	32.982	1.00	0.00	C
ATOM	9860	CB	GLU	1039	0.745	105.053	32.088	1.00	0.00	C
ATOM	9861	CG	GLU	1039	0.936	105.595	30.667	1.00	0.00	C
ATOM	9862	CD	GLU	1039	-0.425	105.927	30.069	1.00	0.00	C
ATOM	9863	OE1	GLU	1039	-1.455	105.475	30.635	1.00	0.00	O
ATOM	9864	OE2	GLU	1039	-0.453	106.641	29.032	1.00	0.00	O
ATOM	9865	C	GLU	1039	-0.065	105.395	34.374	1.00	0.00	C
ATOM	9866	O	GLU	1039	-1.006	104.758	34.851	1.00	0.00	O
ATOM	9867	N	ASN	1040	1.057	105.648	35.074	1.00	0.00	N
ATOM	9868	HN	ASN	1040	1.785	106.231	34.661	1.00	0.00	H
ATOM	9869	CA	ASN	1040	1.245	105.111	36.389	1.00	0.00	C
ATOM	9870	CB	ASN	1040	2.549	105.578	37.068	1.00	0.00	C
ATOM	9871	CG	ASN	1040	3.750	104.933	36.386	1.00	0.00	C
ATOM	9872	OD1	ASN	1040	4.825	105.524	36.305	1.00	0.00	O
ATOM	9873	ND2	ASN	1040	3.568	103.680	35.890	1.00	0.00	N
ATOM	9874	1HD2	ASN	1040	2.676	103.190	35.957	1.00	0.00	H
ATOM	9875	2HD2	ASN	1040	4.372	103.248	35.434	1.00	0.00	H
ATOM	9876	C	ASN	1040	0.134	105.627	37.215	1.00	0.00	C
ATOM	9877	O	ASN	1040	-0.546	104.835	37.855	1.00	0.00	O
ATOM	9878	N	ILE	1041	-0.149	106.939	37.154	1.00	0.00	N
ATOM	9879	HN	ILE	1041	0.398	107.533	36.531	1.00	0.00	H
ATOM	9880	CA	ILE	1041	-1.197	107.534	37.937	1.00	0.00	C
ATOM	9881	CB	ILE	1041	-1.474	108.953	37.530	1.00	0.00	C
ATOM	9882	CG1	ILE	1041	-0.217	109.829	37.691	1.00	0.00	C
ATOM	9883	CG2	ILE	1041	-2.679	109.447	38.344	1.00	0.00	C
ATOM	9884	CD1	ILE	1041	-0.331	111.194	37.007	1.00	0.00	C
ATOM	9885	C	ILE	1041	-2.425	106.744	37.605	1.00	0.00	C
ATOM	9886	O	ILE	1041	-3.160	106.289	38.477	1.00	0.00	O
ATOM	9887	N	ALA	1042	-2.545	106.430	36.311	1.00	0.00	N
ATOM	9888	HN	ALA	1042	-1.783	106.739	35.708	1.00	0.00	H
ATOM	9889	CA	ALA	1042	-3.601	105.718	35.661	1.00	0.00	C
ATOM	9890	CB	ALA	1042	-3.475	105.678	34.126	1.00	0.00	C
ATOM	9891	C	ALA	1042	-3.721	104.316	36.168	1.00	0.00	C
ATOM	9892	O	ALA	1042	-4.593	103.615	35.664	1.00	0.00	O
ATOM	9893	N	TYR	1043	-2.773	103.855	37.030	1.00	0.00	N
ATOM	9894	HN	TYR	1043	-2.097	104.541	37.364	1.00	0.00	H
ATOM	9895	CA	TYR	1043	-2.612	102.502	37.529	1.00	0.00	C
ATOM	9896	CB	TYR	1043	-2.245	102.321	39.026	1.00	0.00	C
ATOM	9897	CG	TYR	1043	-0.781	102.482	39.216	1.00	0.00	C
ATOM	9898	CD1	TYR	1043	0.072	101.666	38.511	1.00	0.00	C
ATOM	9899	CD2	TYR	1043	-0.265	103.380	40.123	1.00	0.00	C
ATOM	9900	CE1	TYR	1043	1.431	101.781	38.660	1.00	0.00	C
ATOM	9901	CE2	TYR	1043	1.094	103.500	40.274	1.00	0.00	C
ATOM	9902	CZ	TYR	1043	1.939	102.705	39.537	1.00	0.00	C
ATOM	9903	OH	TYR	1043	3.332	102.826	39.688	1.00	0.00	O
ATOM	9904	HH	TYR	1043	3.684	103.466	40.295	1.00	0.00	H
ATOM	9905	C	TYR	1043	-3.843	101.716	37.387	1.00	0.00	C
ATOM	9906	O	TYR	1043	-4.773	101.887	38.164	1.00	0.00	O
ATOM	9907	N	GLY	1044	-3.874	100.987	36.253	1.00	0.00	N
ATOM	9908	HN	GLY	1044	-3.128	101.228	35.600	1.00	0.00	H
ATOM	9909	CA	GLY	1044	-4.735	99.943	35.769	1.00	0.00	C
ATOM	9910	C	GLY	1044	-5.392	99.155	36.854	1.00	0.00	C
ATOM	9911	O	GLY	1044	-5.260	97.935	36.857	1.00	0.00	O
ATOM	9912	N	ASP	1045	-6.154	99.783	37.752	1.00	0.00	N
ATOM	9913	HN	ASP	1045	-6.347	100.775	37.617	1.00	0.00	H

ATOM	9914	CA	ASP	1045	-6.711	99.130	38.892	1.00	0.00	C
ATOM	9915	CB	ASP	1045	-7.679	100.070	39.619	1.00	0.00	C
ATOM	9916	CG	ASP	1045	-7.001	101.427	39.687	1.00	0.00	C
ATOM	9917	OD1	ASP	1045	-5.972	101.573	40.400	1.00	0.00	O
ATOM	9918	OD2	ASP	1045	-7.511	102.345	38.990	1.00	0.00	O
ATOM	9919	C	ASP	1045	-7.552	98.043	38.329	1.00	0.00	C
ATOM	9920	O	ASP	1045	-7.606	96.927	38.844	1.00	0.00	O
ATOM	9921	N	ASN	1046	-8.226	98.375	37.220	1.00	0.00	N
ATOM	9922	HN	ASN	1046	-8.126	99.316	36.839	1.00	0.00	H
ATOM	9923	CA	ASN	1046	-9.081	97.443	36.560	1.00	0.00	C
ATOM	9924	CB	ASN	1046	-10.364	97.142	37.351	1.00	0.00	C
ATOM	9925	CG	ASN	1046	-11.034	98.467	37.674	1.00	0.00	C
ATOM	9926	OD1	ASN	1046	-11.837	98.987	36.900	1.00	0.00	O
ATOM	9927	ND2	ASN	1046	-10.693	99.033	38.862	1.00	0.00	N
ATOM	9928	1HD2	ASN	1046	-11.143	99.922	39.079	1.00	0.00	H
ATOM	9929	2HD2	ASN	1046	-10.027	98.602	39.504	1.00	0.00	H
ATOM	9930	C	ASN	1046	-9.448	98.047	35.249	1.00	0.00	C
ATOM	9931	O	ASN	1046	-8.652	98.737	34.613	1.00	0.00	O
ATOM	9932	N	SER	1047	-10.710	97.831	34.835	1.00	0.00	N
ATOM	9933	HN	SER	1047	-11.333	97.304	35.447	1.00	0.00	H
ATOM	9934	CA	SER	1047	-11.230	98.300	33.582	1.00	0.00	C
ATOM	9935	CB	SER	1047	-12.697	97.899	33.357	1.00	0.00	C
ATOM	9936	OG	SER	1047	-13.527	98.532	34.319	1.00	0.00	O
ATOM	9937	HG	SER	1047	-14.434	98.284	34.180	1.00	0.00	H
ATOM	9938	C	SER	1047	-11.161	99.793	33.554	1.00	0.00	C
ATOM	9939	O	SER	1047	-11.397	100.402	32.510	1.00	0.00	O
ATOM	9940	N	ARG	1048	-10.834	100.416	34.706	1.00	0.00	N
ATOM	9941	HN	ARG	1048	-10.650	99.857	35.539	1.00	0.00	H
ATOM	9942	CA	ARG	1048	-10.739	101.839	34.788	1.00	0.00	C
ATOM	9943	CB	ARG	1048	-10.137	102.341	36.113	1.00	0.00	C
ATOM	9944	CG	ARG	1048	-10.949	101.950	37.347	1.00	0.00	C
ATOM	9945	CD	ARG	1048	-12.185	102.821	37.604	1.00	0.00	C
ATOM	9946	NE	ARG	1048	-11.721	104.177	38.017	1.00	0.00	N
ATOM	9947	HE	ARG	1048	-11.487	104.355	38.994	1.00	0.00	H
ATOM	9948	CZ	ARG	1048	-11.606	105.181	37.101	1.00	0.00	C
ATOM	9949	NH1	ARG	1048	-11.950	104.966	35.799	1.00	0.00	N
ATOM	9950	1HH1	ARG	1048	-11.864	105.717	35.114	1.00	0.00	H
ATOM	9951	2HH1	ARG	1048	-12.283	104.046	35.510	1.00	0.00	H
ATOM	9952	NH2	ARG	1048	-11.161	106.411	37.488	1.00	0.00	N
ATOM	9953	1HH2	ARG	1048	-11.075	107.162	36.803	1.00	0.00	H
ATOM	9954	2HH2	ARG	1048	-10.904	106.572	38.462	1.00	0.00	H
ATOM	9955	C	ARG	1048	-9.832	102.296	33.687	1.00	0.00	C
ATOM	9956	O	ARG	1048	-8.653	101.951	33.632	1.00	0.00	O
ATOM	9957	N	VAL	1049	-10.399	103.095	32.766	1.00	0.00	N
ATOM	9958	HN	VAL	1049	-11.382	103.342	32.881	1.00	0.00	H
ATOM	9959	CA	VAL	1049	-9.697	103.618	31.633	1.00	0.00	C
ATOM	9960	CB	VAL	1049	-10.607	104.108	30.547	1.00	0.00	C
ATOM	9961	CG1	VAL	1049	-11.503	105.216	31.126	1.00	0.00	C
ATOM	9962	CG2	VAL	1049	-9.744	104.567	29.358	1.00	0.00	C
ATOM	9963	C	VAL	1049	-8.897	104.776	32.113	1.00	0.00	C
ATOM	9964	O	VAL	1049	-9.203	105.343	33.160	1.00	0.00	O
ATOM	9965	N	VAL	1050	-7.829	105.141	31.373	1.00	0.00	N
ATOM	9966	HN	VAL	1050	-7.599	104.654	30.507	1.00	0.00	H
ATOM	9967	CA	VAL	1050	-7.029	106.233	31.841	1.00	0.00	C
ATOM	9968	CB	VAL	1050	-5.663	106.309	31.204	1.00	0.00	C
ATOM	9969	CG1	VAL	1050	-5.795	106.410	29.675	1.00	0.00	C
ATOM	9970	CG2	VAL	1050	-4.902	107.486	31.831	1.00	0.00	C
ATOM	9971	C	VAL	1050	-7.773	107.516	31.628	1.00	0.00	C
ATOM	9972	O	VAL	1050	-7.536	108.263	30.681	1.00	0.00	O
ATOM	9973	N	SER	1051	-8.690	107.825	32.564	1.00	0.00	N
ATOM	9974	HN	SER	1051	-8.848	107.194	33.350	1.00	0.00	H
ATOM	9975	CA	SER	1051	-9.443	109.037	32.458	1.00	0.00	C
ATOM	9976	CB	SER	1051	-10.550	109.146	33.523	1.00	0.00	C
ATOM	9977	OG	SER	1051	-11.271	110.360	33.374	1.00	0.00	O
ATOM	9978	HG	SER	1051	-11.954	110.427	34.031	1.00	0.00	H
ATOM	9979	C	SER	1051	-8.469	110.149	32.666	1.00	0.00	C
ATOM	9980	O	SER	1051	-7.925	110.304	33.758	1.00	0.00	O
ATOM	9981	N	GLN	1052	-8.242	110.982	31.634	1.00	0.00	N
ATOM	9982	HN	GLN	1052	-8.784	110.913	30.773	1.00	0.00	H
ATOM	9983	CA	GLN	1052	-7.213	111.970	31.785	1.00	0.00	C
ATOM	9984	CB	GLN	1052	-6.915	112.772	30.505	1.00	0.00	C
ATOM	9985	CG	GLN	1052	-5.764	113.766	30.688	1.00	0.00	C
ATOM	9986	CD	GLN	1052	-5.449	114.411	29.345	1.00	0.00	C
ATOM	9987	OE1	GLN	1052	-4.478	114.049	28.683	1.00	0.00	O

ATOM	9988	NE2	GLN	1052	-6.291	115.394	28.928	1.00	0.00	N
ATOM	9989	1HE2	GLN	1052	-6.080	115.826	28.028	1.00	0.00	H
ATOM	9990	2HE2	GLN	1052	-7.096	115.694	29.477	1.00	0.00	H
ATOM	9991	C	GLN	1052	-7.560	112.938	32.873	1.00	0.00	C
ATOM	9992	O	GLN	1052	-6.760	113.163	33.777	1.00	0.00	O
ATOM	9993	N	GLU	1053	-8.791	113.475	32.871	1.00	0.00	N
ATOM	9994	HN	GLU	1053	-9.469	113.183	32.167	1.00	0.00	H
ATOM	9995	CA	GLU	1053	-9.162	114.456	33.850	1.00	0.00	C
ATOM	9996	CB	GLU	1053	-10.626	114.895	33.718	1.00	0.00	C
ATOM	9997	CG	GLU	1053	-10.901	115.615	32.401	1.00	0.00	C
ATOM	9998	CD	GLU	1053	-10.900	114.579	31.288	1.00	0.00	C
ATOM	9999	OE1	GLU	1053	-11.073	113.368	31.595	1.00	0.00	O
ATOM	10000	OE2	GLU	1053	-10.731	114.990	30.110	1.00	0.00	O
ATOM	10001	C	GLU	1053	-9.017	113.797	35.173	1.00	0.00	C
ATOM	10002	O	GLU	1053	-8.632	114.427	36.157	1.00	0.00	O
ATOM	10003	N	GLU	1054	-9.329	112.491	35.213	1.00	0.00	N
ATOM	10004	HN	GLU	1054	-9.669	112.025	34.371	1.00	0.00	H
ATOM	10005	CA	GLU	1054	-9.188	111.748	36.429	1.00	0.00	C
ATOM	10006	CB	GLU	1054	-9.536	110.258	36.270	1.00	0.00	C
ATOM	10007	CG	GLU	1054	-10.989	109.906	36.556	1.00	0.00	C
ATOM	10008	CD	GLU	1054	-11.016	109.652	38.055	1.00	0.00	C
ATOM	10009	OE1	GLU	1054	-10.134	110.219	38.756	1.00	0.00	O
ATOM	10010	OE2	GLU	1054	-11.898	108.883	38.521	1.00	0.00	O
ATOM	10011	C	GLU	1054	-7.761	111.764	36.874	1.00	0.00	C
ATOM	10012	O	GLU	1054	-7.470	112.158	38.002	1.00	0.00	O
ATOM	10013	N	ILE	1055	-6.827	111.404	35.972	1.00	0.00	N
ATOM	10014	HN	ILE	1055	-7.103	111.202	35.011	1.00	0.00	H
ATOM	10015	CA	ILE	1055	-5.445	111.302	36.353	1.00	0.00	C
ATOM	10016	CB	ILE	1055	-4.502	110.889	35.248	1.00	0.00	C
ATOM	10017	CG1	ILE	1055	-4.342	111.978	34.180	1.00	0.00	C
ATOM	10018	CG2	ILE	1055	-5.014	109.552	34.681	1.00	0.00	C
ATOM	10019	CD1	ILE	1055	-3.213	111.695	33.189	1.00	0.00	C
ATOM	10020	C	ILE	1055	-5.041	112.657	36.833	1.00	0.00	C
ATOM	10021	O	ILE	1055	-4.144	112.794	37.664	1.00	0.00	O
ATOM	10022	N	VAL	1056	-5.652	113.700	36.240	1.00	0.00	N
ATOM	10023	HN	VAL	1056	-6.307	113.510	35.481	1.00	0.00	H
ATOM	10024	CA	VAL	1056	-5.429	115.066	36.621	1.00	0.00	C
ATOM	10025	CB	VAL	1056	-6.087	116.035	35.683	1.00	0.00	C
ATOM	10026	CG1	VAL	1056	-5.905	117.463	36.227	1.00	0.00	C
ATOM	10027	CG2	VAL	1056	-5.482	115.826	34.285	1.00	0.00	C
ATOM	10028	C	VAL	1056	-5.957	115.303	38.004	1.00	0.00	C
ATOM	10029	O	VAL	1056	-5.311	115.973	38.810	1.00	0.00	O
ATOM	10030	N	ARG	1057	-7.146	114.755	38.330	1.00	0.00	N
ATOM	10031	HN	ARG	1057	-7.652	114.178	37.658	1.00	0.00	H
ATOM	10032	CA	ARG	1057	-7.687	114.997	39.638	1.00	0.00	C
ATOM	10033	CB	ARG	1057	-9.047	114.325	39.889	1.00	0.00	C
ATOM	10034	CG	ARG	1057	-10.193	114.956	39.095	1.00	0.00	C
ATOM	10035	CD	ARG	1057	-10.214	116.486	39.159	1.00	0.00	C
ATOM	10036	NE	ARG	1057	-9.358	116.975	38.042	1.00	0.00	N
ATOM	10037	HE	ARG	1057	-8.740	116.323	37.559	1.00	0.00	H
ATOM	10038	CZ	ARG	1057	-9.391	118.284	37.657	1.00	0.00	C
ATOM	10039	NH1	ARG	1057	-10.171	119.178	38.332	1.00	0.00	N
ATOM	10040	1HH1	ARG	1057	-10.196	120.156	38.044	1.00	0.00	H
ATOM	10041	2HH1	ARG	1057	-10.725	118.872	39.132	1.00	0.00	H
ATOM	10042	NH2	ARG	1057	-8.650	118.694	36.587	1.00	0.00	N
ATOM	10043	1HH2	ARG	1057	-8.675	119.672	36.299	1.00	0.00	H
ATOM	10044	2HH2	ARG	1057	-8.067	118.026	36.083	1.00	0.00	H
ATOM	10045	C	ARG	1057	-6.715	114.434	40.617	1.00	0.00	C
ATOM	10046	O	ARG	1057	-6.429	115.043	41.648	1.00	0.00	O
ATOM	10047	N	ALA	1058	-6.170	113.245	40.309	1.00	0.00	N
ATOM	10048	HN	ALA	1058	-6.419	112.771	39.440	1.00	0.00	H
ATOM	10049	CA	ALA	1058	-5.238	112.654	41.215	1.00	0.00	C
ATOM	10050	CB	ALA	1058	-4.726	111.294	40.735	1.00	0.00	C
ATOM	10051	C	ALA	1058	-4.060	113.551	41.339	1.00	0.00	C
ATOM	10052	O	ALA	1058	-3.738	113.955	42.442	1.00	0.00	O
ATOM	10053	N	ALA	1059	-3.461	113.999	40.222	1.00	0.00	N
ATOM	10054	HN	ALA	1059	-3.860	113.757	39.315	1.00	0.00	H
ATOM	10055	CA	ALA	1059	-2.274	114.809	40.270	1.00	0.00	C
ATOM	10056	CB	ALA	1059	-1.832	115.305	38.880	1.00	0.00	C
ATOM	10057	C	ALA	1059	-2.585	116.014	41.099	1.00	0.00	C
ATOM	10058	O	ALA	1059	-1.714	116.534	41.797	1.00	0.00	O
ATOM	10059	N	LYS	1060	-3.835	116.509	41.027	1.00	0.00	N
ATOM	10060	HN	LYS	1060	-4.539	116.076	40.430	1.00	0.00	H
ATOM	10061	CA	LYS	1060	-4.144	117.664	41.817	1.00	0.00	C



ATOM	10062	CB	LYS	1060	-5.532	118.237	41.501	1.00	0.00	C
ATOM	10063	CG	LYS	1060	-5.543	118.942	40.143	1.00	0.00	C
ATOM	10064	CD	LYS	1060	-6.934	119.244	39.597	1.00	0.00	C
ATOM	10065	CE	LYS	1060	-6.907	120.133	38.352	1.00	0.00	C
ATOM	10066	NZ	LYS	1060	-6.586	121.526	38.733	1.00	0.00	N
ATOM	10067	HZ1	LYS	1060	-6.568	122.119	37.903	1.00	0.00	H
ATOM	10068	HZ2	LYS	1060	-5.718	121.587	39.265	1.00	0.00	H
ATOM	10069	HZ3	LYS	1060	-7.222	121.884	39.445	1.00	0.00	H
ATOM	10070	C	LYS	1060	-4.047	117.391	43.299	1.00	0.00	C
ATOM	10071	O	LYS	1060	-3.159	117.918	43.962	1.00	0.00	O
ATOM	10072	N	GLU	1061	-4.887	116.489	43.849	1.00	0.00	N
ATOM	10073	HN	GLU	1061	-5.529	115.976	43.245	1.00	0.00	H
ATOM	10074	CA	GLU	1061	-4.900	116.231	45.271	1.00	0.00	C
ATOM	10075	CB	GLU	1061	-6.003	115.252	45.708	1.00	0.00	C
ATOM	10076	CG	GLU	1061	-7.384	115.899	45.773	1.00	0.00	C
ATOM	10077	CD	GLU	1061	-7.388	116.827	46.979	1.00	0.00	C
ATOM	10078	OE1	GLU	1061	-6.492	116.675	47.855	1.00	0.00	O
ATOM	10079	OE2	GLU	1061	-8.289	117.704	47.040	1.00	0.00	O
ATOM	10080	C	GLU	1061	-3.597	115.619	45.655	1.00	0.00	C
ATOM	10081	O	GLU	1061	-3.145	115.714	46.794	1.00	0.00	O
ATOM	10082	N	ALA	1062	-2.990	114.920	44.696	1.00	0.00	N
ATOM	10083	HN	ALA	1062	-3.446	114.868	43.785	1.00	0.00	H
ATOM	10084	CA	ALA	1062	-1.746	114.240	44.857	1.00	0.00	C
ATOM	10085	CB	ALA	1062	-1.278	113.525	43.578	1.00	0.00	C
ATOM	10086	C	ALA	1062	-0.734	115.281	45.186	1.00	0.00	C
ATOM	10087	O	ALA	1062	0.112	115.083	46.055	1.00	0.00	O
ATOM	10088	N	ASN	1063	-0.844	116.448	44.529	1.00	0.00	N
ATOM	10089	HN	ASN	1063	-1.613	116.571	43.870	1.00	0.00	H
ATOM	10090	CA	ASN	1063	0.080	117.526	44.720	1.00	0.00	C
ATOM	10091	CB	ASN	1063	0.374	117.809	46.205	1.00	0.00	C
ATOM	10092	CG	ASN	1063	-0.910	118.289	46.873	1.00	0.00	C
ATOM	10093	OD1	ASN	1063	-1.516	119.275	46.456	1.00	0.00	O
ATOM	10094	ND2	ASN	1063	-1.345	117.566	47.939	1.00	0.00	N
ATOM	10095	1HD2	ASN	1063	-0.843	116.748	48.285	1.00	0.00	H
ATOM	10096	2HD2	ASN	1063	-2.204	117.887	48.386	1.00	0.00	H
ATOM	10097	C	ASN	1063	1.372	117.184	44.046	1.00	0.00	C
ATOM	10098	O	ASN	1063	2.415	117.764	44.342	1.00	0.00	O
ATOM	10099	N	ILE	1064	1.339	116.177	43.157	1.00	0.00	N
ATOM	10100	HN	ILE	1064	0.494	115.609	43.103	1.00	0.00	H
ATOM	10101	CA	ILE	1064	2.427	115.858	42.281	1.00	0.00	C
ATOM	10102	CB	ILE	1064	2.440	114.497	41.681	1.00	0.00	C
ATOM	10103	CG1	ILE	1064	3.780	114.383	40.932	1.00	0.00	C
ATOM	10104	CG2	ILE	1064	1.188	114.305	40.809	1.00	0.00	C
ATOM	10105	CD1	ILE	1064	4.230	112.975	40.603	1.00	0.00	C
ATOM	10106	C	ILE	1064	2.407	116.862	41.182	1.00	0.00	C
ATOM	10107	O	ILE	1064	3.378	117.051	40.452	1.00	0.00	O
ATOM	10108	N	HIS	1065	1.235	117.495	41.022	1.00	0.00	N
ATOM	10109	HN	HIS	1065	0.510	117.316	41.717	1.00	0.00	H
ATOM	10110	CA	HIS	1065	0.914	118.399	39.961	1.00	0.00	C
ATOM	10111	ND1	HIS	1065	-0.398	120.828	38.322	1.00	0.00	N
ATOM	10112	HD1	HIS	1065	0.514	121.243	38.512	1.00	0.00	H
ATOM	10113	CG	HIS	1065	-1.002	119.809	39.027	1.00	0.00	C
ATOM	10114	CB	HIS	1065	-0.411	119.135	40.229	1.00	0.00	C
ATOM	10115	NE2	HIS	1065	-2.358	120.447	37.341	1.00	0.00	N
ATOM	10116	HE2	HIS	1065	-3.152	120.507	36.704	1.00	0.00	H
ATOM	10117	CD2	HIS	1065	-2.197	119.590	38.413	1.00	0.00	C
ATOM	10118	CE1	HIS	1065	-1.252	121.171	37.326	1.00	0.00	C
ATOM	10119	C	HIS	1065	1.991	119.437	39.881	1.00	0.00	C
ATOM	10120	O	HIS	1065	2.228	119.983	38.806	1.00	0.00	O
ATOM	10121	N	ALA	1066	2.676	119.743	41.001	1.00	0.00	N
ATOM	10122	HN	ALA	1066	2.465	119.259	41.874	1.00	0.00	H
ATOM	10123	CA	ALA	1066	3.704	120.750	40.971	1.00	0.00	C
ATOM	10124	CB	ALA	1066	4.471	120.858	42.300	1.00	0.00	C
ATOM	10125	C	ALA	1066	4.697	120.361	39.916	1.00	0.00	C
ATOM	10126	O	ALA	1066	5.217	121.220	39.206	1.00	0.00	O
ATOM	10127	N	PHE	1067	5.019	119.058	39.826	1.00	0.00	N
ATOM	10128	HN	PHE	1067	4.638	118.417	40.522	1.00	0.00	H
ATOM	10129	CA	PHE	1067	5.871	118.520	38.801	1.00	0.00	C
ATOM	10130	CB	PHE	1067	6.374	117.108	39.137	1.00	0.00	C
ATOM	10131	CG	PHE	1067	7.337	117.324	40.249	1.00	0.00	C
ATOM	10132	CD1	PHE	1067	6.875	117.582	41.518	1.00	0.00	C
ATOM	10133	CD2	PHE	1067	8.694	117.276	40.025	1.00	0.00	C
ATOM	10134	CE1	PHE	1067	7.755	117.792	42.552	1.00	0.00	C
ATOM	10135	CE2	PHE	1067	9.578	117.485	41.056	1.00	0.00	C

ATOM	10136	CZ	PHE	1067	9.109	117.743	42.322	1.00	0.00	C
ATOM	10137	C	PHE	1067	5.135	118.488	37.496	1.00	0.00	C
ATOM	10138	O	PHE	1067	5.716	118.708	36.436	1.00	0.00	O
ATOM	10139	N	ILE	1068	3.825	118.187	37.542	1.00	0.00	N
ATOM	10140	HN	ILE	1068	3.382	118.044	38.450	1.00	0.00	H
ATOM	10141	CA	ILE	1068	3.030	118.060	36.353	1.00	0.00	C
ATOM	10142	CB	ILE	1068	1.616	117.649	36.622	1.00	0.00	C
ATOM	10143	CG1	ILE	1068	1.545	116.157	36.986	1.00	0.00	C
ATOM	10144	CG2	ILE	1068	0.782	118.046	35.394	1.00	0.00	C
ATOM	10145	CD1	ILE	1068	2.254	115.803	38.288	1.00	0.00	C
ATOM	10146	C	ILE	1068	2.951	119.346	35.603	1.00	0.00	C
ATOM	10147	O	ILE	1068	3.000	119.350	34.375	1.00	0.00	O
ATOM	10148	N	GLU	1069	2.797	120.476	36.308	1.00	0.00	N
ATOM	10149	HN	GLU	1069	2.831	120.458	37.327	1.00	0.00	H
ATOM	10150	CA	GLU	1069	2.585	121.705	35.612	1.00	0.00	C
ATOM	10151	CB	GLU	1069	2.462	122.871	36.599	1.00	0.00	C
ATOM	10152	CG	GLU	1069	2.008	124.177	35.965	1.00	0.00	C
ATOM	10153	CD	GLU	1069	1.949	125.209	37.080	1.00	0.00	C
ATOM	10154	OE1	GLU	1069	2.117	124.802	38.261	1.00	0.00	O
ATOM	10155	OE2	GLU	1069	1.738	126.412	36.771	1.00	0.00	O
ATOM	10156	C	GLU	1069	3.737	122.010	34.696	1.00	0.00	C
ATOM	10157	O	GLU	1069	3.547	122.133	33.487	1.00	0.00	O
ATOM	10158	N	SER	1070	4.954	122.181	35.252	1.00	0.00	N
ATOM	10159	HN	SER	1070	5.063	122.073	36.260	1.00	0.00	H
ATOM	10160	CA	SER	1070	6.101	122.513	34.450	1.00	0.00	C
ATOM	10161	CB	SER	1070	7.146	123.313	35.255	1.00	0.00	C
ATOM	10162	OG	SER	1070	7.517	122.609	36.431	1.00	0.00	O
ATOM	10163	HG	SER	1070	8.160	123.102	36.927	1.00	0.00	H
ATOM	10164	C	SER	1070	6.771	121.339	33.810	1.00	0.00	C
ATOM	10165	O	SER	1070	6.523	121.028	32.644	1.00	0.00	O
ATOM	10166	N	LEU	1071	7.572	120.635	34.648	1.00	0.00	N
ATOM	10167	HN	LEU	1071	7.513	120.922	35.625	1.00	0.00	H
ATOM	10168	CA	LEU	1071	8.493	119.552	34.401	1.00	0.00	C
ATOM	10169	CB	LEU	1071	8.268	118.421	35.419	1.00	0.00	C
ATOM	10170	CG	LEU	1071	9.269	117.259	35.382	1.00	0.00	C
ATOM	10171	CD1	LEU	1071	10.681	117.710	35.792	1.00	0.00	C
ATOM	10172	CD2	LEU	1071	8.752	116.096	36.237	1.00	0.00	C
ATOM	10173	C	LEU	1071	8.315	119.029	33.018	1.00	0.00	C
ATOM	10174	O	LEU	1071	7.229	118.591	32.636	1.00	0.00	O
ATOM	10175	N	PRO	1072	9.394	119.042	32.277	1.00	0.00	N
ATOM	10176	CA	PRO	1072	9.405	118.749	30.872	1.00	0.00	C
ATOM	10177	CD	PRO	1072	10.715	119.339	32.807	1.00	0.00	C
ATOM	10178	CB	PRO	1072	10.882	118.648	30.485	1.00	0.00	C
ATOM	10179	CG	PRO	1072	11.610	119.474	31.563	1.00	0.00	C
ATOM	10180	C	PRO	1072	8.614	117.532	30.535	1.00	0.00	C
ATOM	10181	O	PRO	1072	8.632	116.562	31.287	1.00	0.00	O
ATOM	10182	N	ASN	1073	7.856	117.622	29.428	1.00	0.00	N
ATOM	10183	HN	ASN	1073	7.866	118.508	28.923	1.00	0.00	H
ATOM	10184	CA	ASN	1073	7.037	116.574	28.902	1.00	0.00	C
ATOM	10185	CB	ASN	1073	7.838	115.304	28.578	1.00	0.00	C
ATOM	10186	CG	ASN	1073	8.781	115.687	27.443	1.00	0.00	C
ATOM	10187	OD1	ASN	1073	8.574	116.696	26.769	1.00	0.00	O
ATOM	10188	ND2	ASN	1073	9.846	114.871	27.223	1.00	0.00	N
ATOM	10189	1HD2	ASN	1073	10.018	114.035	27.782	1.00	0.00	H
ATOM	10190	2HD2	ASN	1073	10.477	115.127	26.464	1.00	0.00	H
ATOM	10191	C	ASN	1073	5.918	116.262	29.847	1.00	0.00	C
ATOM	10192	O	ASN	1073	5.115	115.375	29.568	1.00	0.00	O
ATOM	10193	N	LYS	1074	5.803	117.024	30.957	1.00	0.00	N
ATOM	10194	HN	LYS	1074	6.532	117.707	31.162	1.00	0.00	H
ATOM	10195	CA	LYS	1074	4.689	116.907	31.860	1.00	0.00	C
ATOM	10196	CB	LYS	1074	3.418	117.555	31.286	1.00	0.00	C
ATOM	10197	CG	LYS	1074	3.561	119.063	31.071	1.00	0.00	C
ATOM	10198	CD	LYS	1074	2.508	119.662	30.132	1.00	0.00	C
ATOM	10199	CE	LYS	1074	2.986	119.810	28.684	1.00	0.00	C
ATOM	10200	NZ	LYS	1074	3.951	120.929	28.578	1.00	0.00	N
ATOM	10201	HZ1	LYS	1074	4.269	121.028	27.614	1.00	0.00	H
ATOM	10202	HZ2	LYS	1074	4.730	120.824	29.228	1.00	0.00	H
ATOM	10203	HZ3	LYS	1074	3.567	121.800	28.944	1.00	0.00	H
ATOM	10204	C	LYS	1074	4.379	115.473	32.189	1.00	0.00	C
ATOM	10205	O	LYS	1074	5.261	114.645	32.426	1.00	0.00	O
ATOM	10206	N	TYR	1075	3.070	115.153	32.155	1.00	0.00	N
ATOM	10207	HN	TYR	1075	2.413	115.872	31.851	1.00	0.00	H
ATOM	10208	CA	TYR	1075	2.536	113.870	32.517	1.00	0.00	C
ATOM	10209	CB	TYR	1075	1.036	113.695	32.212	1.00	0.00	C

ATOM	10210	CG	TYR	1075	0.184	114.598	33.039	1.00	0.00	C
ATOM	10211	CD1	TYR	1075	-0.076	114.301	34.357	1.00	0.00	C
ATOM	10212	CD2	TYR	1075	-0.356	115.744	32.500	1.00	0.00	C
ATOM	10213	CE1	TYR	1075	-0.869	115.124	35.122	1.00	0.00	C
ATOM	10214	CE2	TYR	1075	-1.151	116.570	33.259	1.00	0.00	C
ATOM	10215	CZ	TYR	1075	-1.412	116.260	34.571	1.00	0.00	C
ATOM	10216	OH	TYR	1075	-2.228	117.109	35.350	1.00	0.00	O
ATOM	10217	HH	TYR	1075	-2.409	116.895	36.258	1.00	0.00	H
ATOM	10218	C	TYR	1075	3.207	112.828	31.692	1.00	0.00	C
ATOM	10219	O	TYR	1075	3.452	111.723	32.174	1.00	0.00	O
ATOM	10220	N	SER	1076	3.505	113.165	30.425	1.00	0.00	N
ATOM	10221	HN	SER	1076	3.327	114.125	30.131	1.00	0.00	H
ATOM	10222	CA	SER	1076	4.058	112.257	29.461	1.00	0.00	C
ATOM	10223	CB	SER	1076	4.317	112.928	28.102	1.00	0.00	C
ATOM	10224	OG	SER	1076	3.091	113.340	27.520	1.00	0.00	O
ATOM	10225	HG	SER	1076	3.251	113.755	26.680	1.00	0.00	H
ATOM	10226	C	SER	1076	5.374	111.732	29.933	1.00	0.00	C
ATOM	10227	O	SER	1076	5.800	110.668	29.483	1.00	0.00	O
ATOM	10228	N	THR	1077	6.050	112.449	30.851	1.00	0.00	N
ATOM	10229	HN	THR	1077	5.639	113.294	31.248	1.00	0.00	H
ATOM	10230	CA	THR	1077	7.353	112.014	31.266	1.00	0.00	C
ATOM	10231	CB	THR	1077	7.939	112.832	32.377	1.00	0.00	C
ATOM	10232	OG1	THR	1077	7.947	114.201	32.017	1.00	0.00	O
ATOM	10233	HG1	THR	1077	8.318	114.719	32.721	1.00	0.00	H
ATOM	10234	CG2	THR	1077	9.381	112.356	32.623	1.00	0.00	C
ATOM	10235	C	THR	1077	7.250	110.627	31.797	1.00	0.00	C
ATOM	10236	O	THR	1077	6.534	110.347	32.758	1.00	0.00	O
ATOM	10237	N	LYS	1078	7.993	109.707	31.168	1.00	0.00	N
ATOM	10238	HN	LYS	1078	8.568	109.974	30.368	1.00	0.00	H
ATOM	10239	CA	LYS	1078	7.979	108.353	31.619	1.00	0.00	C
ATOM	10240	CB	LYS	1078	8.774	107.406	30.703	1.00	0.00	C
ATOM	10241	CG	LYS	1078	8.733	105.938	31.131	1.00	0.00	C
ATOM	10242	CD	LYS	1078	9.219	104.982	30.040	1.00	0.00	C
ATOM	10243	CE	LYS	1078	10.679	104.553	30.190	1.00	0.00	C
ATOM	10244	NZ	LYS	1078	11.051	103.645	29.083	1.00	0.00	N
ATOM	10245	HZ1	LYS	1078	12.025	103.359	29.183	1.00	0.00	H
ATOM	10246	HZ2	LYS	1078	10.865	104.058	28.169	1.00	0.00	H
ATOM	10247	HZ3	LYS	1078	10.421	102.845	29.015	1.00	0.00	H
ATOM	10248	C	LYS	1078	8.654	108.393	32.940	1.00	0.00	C
ATOM	10249	O	LYS	1078	9.332	109.360	33.274	1.00	0.00	O
ATOM	10250	N	VAL	1079	8.497	107.327	33.731	1.00	0.00	N
ATOM	10251	HN	VAL	1079	7.927	106.544	33.410	1.00	0.00	H
ATOM	10252	CA	VAL	1079	9.113	107.267	35.016	1.00	0.00	C
ATOM	10253	CB	VAL	1079	8.805	105.982	35.719	1.00	0.00	C
ATOM	10254	CG1	VAL	1079	9.198	104.822	34.812	1.00	0.00	C
ATOM	10255	CG2	VAL	1079	9.541	105.968	37.055	1.00	0.00	C
ATOM	10256	C	VAL	1079	10.583	107.417	34.772	1.00	0.00	C
ATOM	10257	O	VAL	1079	11.326	107.844	35.653	1.00	0.00	O
ATOM	10258	N	GLY	1080	11.041	107.049	33.558	1.00	0.00	N
ATOM	10259	HN	GLY	1080	10.409	106.589	32.903	1.00	0.00	H
ATOM	10260	CA	GLY	1080	12.399	107.293	33.173	1.00	0.00	C
ATOM	10261	C	GLY	1080	13.347	106.396	33.903	1.00	0.00	C
ATOM	10262	O	GLY	1080	13.781	106.703	35.009	1.00	0.00	O
ATOM	10263	N	ASP	1081	13.715	105.266	33.259	1.00	0.00	N
ATOM	10264	HN	ASP	1081	13.318	105.083	32.337	1.00	0.00	H
ATOM	10265	CA	ASP	1081	14.639	104.307	33.807	1.00	0.00	C
ATOM	10266	CB	ASP	1081	15.970	104.925	34.272	1.00	0.00	C
ATOM	10267	CG	ASP	1081	16.863	105.189	33.070	1.00	0.00	C
ATOM	10268	OD1	ASP	1081	16.850	104.361	32.120	1.00	0.00	O
ATOM	10269	OD2	ASP	1081	17.578	106.227	33.094	1.00	0.00	O
ATOM	10270	C	ASP	1081	14.054	103.631	34.994	1.00	0.00	C
ATOM	10271	O	ASP	1081	14.760	103.281	35.937	1.00	0.00	O
ATOM	10272	N	LYS	1082	12.739	103.399	34.949	1.00	0.00	N
ATOM	10273	HN	LYS	1082	12.197	103.746	34.158	1.00	0.00	H
ATOM	10274	CA	LYS	1082	12.077	102.674	35.988	1.00	0.00	C
ATOM	10275	CB	LYS	1082	12.733	101.314	36.270	1.00	0.00	C
ATOM	10276	CG	LYS	1082	12.614	100.357	35.083	1.00	0.00	C
ATOM	10277	CD	LYS	1082	13.350	100.870	33.846	1.00	0.00	C
ATOM	10278	CE	LYS	1082	13.212	99.974	32.617	1.00	0.00	C
ATOM	10279	NZ	LYS	1082	13.532	100.754	31.402	1.00	0.00	N
ATOM	10280	HZ1	LYS	1082	13.440	100.156	30.581	1.00	0.00	H
ATOM	10281	HZ2	LYS	1082	14.450	101.195	31.457	1.00	0.00	H
ATOM	10282	HZ3	LYS	1082	12.968	101.601	31.327	1.00	0.00	H
ATOM	10283	C	LYS	1082	12.055	103.471	37.256	1.00	0.00	C

ATOM	10284	O	LYS	1082	11.737	102.915	38.306	1.00	0.00	O
ATOM	10285	N	GLY	1083	12.307	104.800	37.194	1.00	0.00	N
ATOM	10286	HN	GLY	1083	12.618	105.239	36.328	1.00	0.00	H
ATOM	10287	CA	GLY	1083	12.120	105.569	38.395	1.00	0.00	C
ATOM	10288	C	GLY	1083	13.180	106.591	38.700	1.00	0.00	C
ATOM	10289	O	GLY	1083	12.834	107.769	38.748	1.00	0.00	O
ATOM	10290	N	THR	1084	14.471	106.219	38.856	1.00	0.00	N
ATOM	10291	HN	THR	1084	14.742	105.265	38.618	1.00	0.00	H
ATOM	10292	CA	THR	1084	15.480	107.132	39.350	1.00	0.00	C
ATOM	10293	CB	THR	1084	16.866	106.567	39.240	1.00	0.00	C
ATOM	10294	OG1	THR	1084	16.953	105.338	39.945	1.00	0.00	O
ATOM	10295	HG1	THR	1084	17.830	104.980	39.875	1.00	0.00	H
ATOM	10296	CG2	THR	1084	17.865	107.583	39.816	1.00	0.00	C
ATOM	10297	C	THR	1084	15.491	108.418	38.581	1.00	0.00	C
ATOM	10298	O	THR	1084	16.149	108.514	37.548	1.00	0.00	O
ATOM	10299	N	GLN	1085	14.789	109.452	39.104	1.00	0.00	N
ATOM	10300	HN	GLN	1085	14.296	109.315	39.987	1.00	0.00	H
ATOM	10301	CA	GLN	1085	14.713	110.735	38.461	1.00	0.00	C
ATOM	10302	CB	GLN	1085	13.853	110.741	37.182	1.00	0.00	C
ATOM	10303	CG	GLN	1085	14.393	109.928	36.009	1.00	0.00	C
ATOM	10304	CD	GLN	1085	13.415	110.060	34.851	1.00	0.00	C
ATOM	10305	OE1	GLN	1085	12.203	110.150	35.054	1.00	0.00	O
ATOM	10306	NE2	GLN	1085	13.947	110.073	33.601	1.00	0.00	N
ATOM	10307	1HE2	GLN	1085	14.950	109.998	33.433	1.00	0.00	H
ATOM	10308	2HE2	GLN	1085	13.291	110.161	32.825	1.00	0.00	H
ATOM	10309	C	GLN	1085	13.977	111.666	39.377	1.00	0.00	C
ATOM	10310	O	GLN	1085	13.945	112.870	39.129	1.00	0.00	O
ATOM	10311	N	LEU	1086	13.311	111.138	40.428	1.00	0.00	N
ATOM	10312	HN	LEU	1086	13.323	110.131	40.591	1.00	0.00	H
ATOM	10313	CA	LEU	1086	12.585	112.008	41.315	1.00	0.00	C
ATOM	10314	CB	LEU	1086	11.112	112.240	40.936	1.00	0.00	C
ATOM	10315	CG	LEU	1086	10.944	113.203	39.747	1.00	0.00	C
ATOM	10316	CD1	LEU	1086	9.463	113.420	39.398	1.00	0.00	C
ATOM	10317	CD2	LEU	1086	11.677	114.529	40.018	1.00	0.00	C
ATOM	10318	C	LEU	1086	12.619	111.484	42.713	1.00	0.00	C
ATOM	10319	O	LEU	1086	12.646	110.276	42.948	1.00	0.00	O
ATOM	10320	N	SER	1087	12.583	112.412	43.692	1.00	0.00	N
ATOM	10321	HN	SER	1087	12.491	113.399	43.452	1.00	0.00	H
ATOM	10322	CA	SER	1087	12.673	112.019	45.063	1.00	0.00	C
ATOM	10323	CB	SER	1087	12.892	113.169	46.062	1.00	0.00	C
ATOM	10324	OG	SER	1087	11.700	113.916	46.240	1.00	0.00	O
ATOM	10325	HG	SER	1087	11.835	114.626	46.857	1.00	0.00	H
ATOM	10326	C	SER	1087	11.424	111.302	45.442	1.00	0.00	C
ATOM	10327	O	SER	1087	10.403	111.360	44.759	1.00	0.00	O
ATOM	10328	N	GLY	1088	11.503	110.596	46.579	1.00	0.00	N
ATOM	10329	HN	GLY	1088	12.366	110.644	47.121	1.00	0.00	H
ATOM	10330	CA	GLY	1088	10.438	109.780	47.069	1.00	0.00	C
ATOM	10331	C	GLY	1088	9.253	110.641	47.359	1.00	0.00	C
ATOM	10332	O	GLY	1088	8.115	110.183	47.265	1.00	0.00	O
ATOM	10333	N	GLY	1089	9.487	111.908	47.758	1.00	0.00	N
ATOM	10334	HN	GLY	1089	10.439	112.274	47.793	1.00	0.00	H
ATOM	10335	CA	GLY	1089	8.377	112.731	48.132	1.00	0.00	C
ATOM	10336	C	GLY	1089	7.439	112.836	46.976	1.00	0.00	C
ATOM	10337	O	GLY	1089	6.242	112.600	47.121	1.00	0.00	O
ATOM	10338	N	GLN	1090	7.965	113.154	45.781	1.00	0.00	N
ATOM	10339	HN	GLN	1090	8.970	113.304	45.693	1.00	0.00	H
ATOM	10340	CA	GLN	1090	7.122	113.283	44.629	1.00	0.00	C
ATOM	10341	CB	GLN	1090	7.887	113.654	43.350	1.00	0.00	C
ATOM	10342	CG	GLN	1090	8.491	115.055	43.361	1.00	0.00	C
ATOM	10343	CD	GLN	1090	9.709	115.072	44.272	1.00	0.00	C
ATOM	10344	OE1	GLN	1090	9.588	115.185	45.491	1.00	0.00	O
ATOM	10345	NE2	GLN	1090	10.919	114.967	43.662	1.00	0.00	N
ATOM	10346	1HE2	GLN	1090	11.019	114.873	42.651	1.00	0.00	H
ATOM	10347	2HE2	GLN	1090	11.736	114.978	44.273	1.00	0.00	H
ATOM	10348	C	GLN	1090	6.522	111.946	44.372	1.00	0.00	C
ATOM	10349	O	GLN	1090	5.344	111.820	44.039	1.00	0.00	O
ATOM	10350	N	LYS	1091	7.334	110.897	44.558	1.00	0.00	N
ATOM	10351	HN	LYS	1091	8.275	111.043	44.922	1.00	0.00	H
ATOM	10352	CA	LYS	1091	6.889	109.575	44.249	1.00	0.00	C
ATOM	10353	CB	LYS	1091	7.985	108.539	44.554	1.00	0.00	C
ATOM	10354	CG	LYS	1091	7.820	107.229	43.791	1.00	0.00	C
ATOM	10355	CD	LYS	1091	9.098	106.386	43.736	1.00	0.00	C
ATOM	10356	CE	LYS	1091	8.980	105.159	42.828	1.00	0.00	C
ATOM	10357	NZ	LYS	1091	10.283	104.462	42.738	1.00	0.00	N

ATOM	10358	HZ1	LYS	1091	10.204	103.645	42.133	1.00	0.00	H
ATOM	10359	HZ2	LYS	1091	10.650	104.221	43.658	1.00	0.00	H
ATOM	10360	HZ3	LYS	1091	11.030	105.088	42.437	1.00	0.00	H
ATOM	10361	C	LYS	1091	5.666	109.289	45.064	1.00	0.00	C
ATOM	10362	O	LYS	1091	4.659	108.812	44.544	1.00	0.00	O
ATOM	10363	N	GLN	1092	5.699	109.639	46.360	1.00	0.00	N
ATOM	10364	HN	GLN	1092	6.525	110.105	46.737	1.00	0.00	H
ATOM	10365	CA	GLN	1092	4.587	109.365	47.218	1.00	0.00	C
ATOM	10366	CB	GLN	1092	4.853	109.779	48.670	1.00	0.00	C
ATOM	10367	CG	GLN	1092	4.025	108.958	49.650	1.00	0.00	C
ATOM	10368	CD	GLN	1092	4.641	107.566	49.632	1.00	0.00	C
ATOM	10369	OE1	GLN	1092	4.833	106.970	48.573	1.00	0.00	O
ATOM	10370	NE2	GLN	1092	4.983	107.041	50.837	1.00	0.00	N
ATOM	10371	1HE2	GLN	1092	4.824	107.535	51.715	1.00	0.00	H
ATOM	10372	2HE2	GLN	1092	5.396	106.108	50.825	1.00	0.00	H
ATOM	10373	C	GLN	1092	3.421	110.149	46.707	1.00	0.00	C
ATOM	10374	O	GLN	1092	2.275	109.721	46.809	1.00	0.00	O
ATOM	10375	N	ARG	1093	3.678	111.341	46.144	1.00	0.00	N
ATOM	10376	HN	ARG	1093	4.635	111.689	46.079	1.00	0.00	H
ATOM	10377	CA	ARG	1093	2.585	112.114	45.636	1.00	0.00	C
ATOM	10378	CB	ARG	1093	3.041	113.426	44.973	1.00	0.00	C
ATOM	10379	CG	ARG	1093	3.517	114.482	45.970	1.00	0.00	C
ATOM	10380	CD	ARG	1093	4.086	115.736	45.307	1.00	0.00	C
ATOM	10381	NE	ARG	1093	4.334	116.752	46.373	1.00	0.00	N
ATOM	10382	HE	ARG	1093	3.655	117.496	46.534	1.00	0.00	H
ATOM	10383	CZ	ARG	1093	5.466	116.687	47.132	1.00	0.00	C
ATOM	10384	NH1	ARG	1093	6.308	115.620	47.010	1.00	0.00	N
ATOM	10385	1HH1	ARG	1093	7.154	115.571	47.577	1.00	0.00	H
ATOM	10386	2HH1	ARG	1093	6.088	114.873	46.352	1.00	0.00	H
ATOM	10387	NH2	ARG	1093	5.760	117.687	48.013	1.00	0.00	N
ATOM	10388	1HH2	ARG	1093	6.606	117.638	48.580	1.00	0.00	H
ATOM	10389	2HH2	ARG	1093	5.131	118.485	48.104	1.00	0.00	H
ATOM	10390	C	ARG	1093	1.895	111.289	44.590	1.00	0.00	C
ATOM	10391	O	ARG	1093	0.668	111.250	44.530	1.00	0.00	O
ATOM	10392	N	ILE	1094	2.674	110.595	43.739	1.00	0.00	N
ATOM	10393	HN	ILE	1094	3.687	110.629	43.850	1.00	0.00	H
ATOM	10394	CA	ILE	1094	2.108	109.805	42.675	1.00	0.00	C
ATOM	10395	CB	ILE	1094	3.158	109.134	41.833	1.00	0.00	C
ATOM	10396	CG1	ILE	1094	4.219	110.138	41.371	1.00	0.00	C
ATOM	10397	CG2	ILE	1094	2.449	108.442	40.655	1.00	0.00	C
ATOM	10398	CD1	ILE	1094	5.461	109.470	40.781	1.00	0.00	C
ATOM	10399	C	ILE	1094	1.322	108.664	43.253	1.00	0.00	C
ATOM	10400	O	ILE	1094	0.173	108.436	42.874	1.00	0.00	O
ATOM	10401	N	ALA	1095	1.917	107.941	44.228	1.00	0.00	N
ATOM	10402	HN	ALA	1095	2.816	108.248	44.600	1.00	0.00	H
ATOM	10403	CA	ALA	1095	1.309	106.749	44.750	1.00	0.00	C
ATOM	10404	CB	ALA	1095	2.108	106.138	45.914	1.00	0.00	C
ATOM	10405	C	ALA	1095	-0.031	107.124	45.283	1.00	0.00	C
ATOM	10406	O	ALA	1095	-1.024	106.453	45.011	1.00	0.00	O
ATOM	10407	N	ILE	1096	-0.097	108.242	46.024	1.00	0.00	N
ATOM	10408	HN	ILE	1096	0.754	108.774	46.207	1.00	0.00	H
ATOM	10409	CA	ILE	1096	-1.346	108.699	46.563	1.00	0.00	C
ATOM	10410	CB	ILE	1096	-1.244	109.927	47.423	1.00	0.00	C
ATOM	10411	CG1	ILE	1096	-0.724	109.561	48.826	1.00	0.00	C
ATOM	10412	CG2	ILE	1096	-2.627	110.603	47.440	1.00	0.00	C
ATOM	10413	CD1	ILE	1096	0.655	108.914	48.859	1.00	0.00	C
ATOM	10414	C	ILE	1096	-2.262	108.991	45.437	1.00	0.00	C
ATOM	10415	O	ILE	1096	-3.469	108.762	45.547	1.00	0.00	O
ATOM	10416	N	ALA	1097	-1.707	109.526	44.333	1.00	0.00	N
ATOM	10417	HN	ALA	1097	-0.705	109.711	44.287	1.00	0.00	H
ATOM	10418	CA	ALA	1097	-2.558	109.826	43.231	1.00	0.00	C
ATOM	10419	CB	ALA	1097	-1.789	110.346	42.008	1.00	0.00	C
ATOM	10420	C	ALA	1097	-3.213	108.556	42.843	1.00	0.00	C
ATOM	10421	O	ALA	1097	-4.423	108.476	43.014	1.00	0.00	O
ATOM	10422	N	ARG	1098	-2.417	107.492	42.560	1.00	0.00	N
ATOM	10423	HN	ARG	1098	-1.415	107.557	42.742	1.00	0.00	H
ATOM	10424	CA	ARG	1098	-2.954	106.275	42.009	1.00	0.00	C
ATOM	10425	CB	ARG	1098	-1.968	105.093	41.873	1.00	0.00	C
ATOM	10426	CG	ARG	1098	-1.502	104.471	43.189	1.00	0.00	C
ATOM	10427	CD	ARG	1098	-0.746	103.147	43.023	1.00	0.00	C
ATOM	10428	NE	ARG	1098	0.681	103.386	43.390	1.00	0.00	N
ATOM	10429	HE	ARG	1098	0.955	104.286	43.783	1.00	0.00	H
ATOM	10430	CZ	ARG	1098	1.623	102.418	43.207	1.00	0.00	C
ATOM	10431	NH1	ARG	1098	1.311	101.258	42.554	1.00	0.00	N

ATOM	10432	1HH1	ARG	1098	0.364	101.116	42.203	1.00	0.00	H
ATOM	10433	2HH1	ARG	1098	2.016	100.534	42.417	1.00	0.00	H
ATOM	10434	NH2	ARG	1098	2.890	102.608	43.676	1.00	0.00	N
ATOM	10435	1HH2	ARG	1098	3.123	103.473	44.163	1.00	0.00	H
ATOM	10436	2HH2	ARG	1098	3.595	101.884	43.539	1.00	0.00	H
ATOM	10437	C	ARG	1098	-4.058	105.842	42.913	1.00	0.00	C
ATOM	10438	O	ARG	1098	-5.142	105.509	42.441	1.00	0.00	O
ATOM	10439	N	ALA	1099	-3.840	105.945	44.241	1.00	0.00	N
ATOM	10440	HN	ALA	1099	-2.943	106.284	44.589	1.00	0.00	H
ATOM	10441	CA	ALA	1099	-4.878	105.574	45.161	1.00	0.00	C
ATOM	10442	CB	ALA	1099	-4.412	105.640	46.624	1.00	0.00	C
ATOM	10443	C	ALA	1099	-6.088	106.456	45.043	1.00	0.00	C
ATOM	10444	O	ALA	1099	-7.173	105.995	44.710	1.00	0.00	O
ATOM	10445	N	LEU	1100	-5.924	107.776	45.182	1.00	0.00	N
ATOM	10446	HN	LEU	1100	-4.985	108.154	45.307	1.00	0.00	H
ATOM	10447	CA	LEU	1100	-7.047	108.671	45.158	1.00	0.00	C
ATOM	10448	CB	LEU	1100	-6.618	110.133	45.364	1.00	0.00	C
ATOM	10449	CG	LEU	1100	-7.774	111.136	45.257	1.00	0.00	C
ATOM	10450	CD1	LEU	1100	-8.874	110.817	46.279	1.00	0.00	C
ATOM	10451	CD2	LEU	1100	-7.269	112.583	45.367	1.00	0.00	C
ATOM	10452	C	LEU	1100	-7.707	108.561	43.813	1.00	0.00	C
ATOM	10453	O	LEU	1100	-8.830	109.017	43.610	1.00	0.00	O
ATOM	10454	N	VAL	1101	-6.968	108.066	42.810	1.00	0.00	N
ATOM	10455	HN	VAL	1101	-5.999	107.803	42.991	1.00	0.00	H
ATOM	10456	CA	VAL	1101	-7.502	107.896	41.489	1.00	0.00	C
ATOM	10457	CB	VAL	1101	-6.507	107.459	40.455	1.00	0.00	C
ATOM	10458	CG1	VAL	1101	-7.251	107.327	39.117	1.00	0.00	C
ATOM	10459	CG2	VAL	1101	-5.323	108.432	40.425	1.00	0.00	C
ATOM	10460	C	VAL	1101	-8.518	106.804	41.536	1.00	0.00	C
ATOM	10461	O	VAL	1101	-9.541	106.858	40.857	1.00	0.00	O
ATOM	10462	N	ARG	1102	-8.217	105.762	42.332	1.00	0.00	N
ATOM	10463	HN	ARG	1102	-7.336	105.810	42.843	1.00	0.00	H
ATOM	10464	CA	ARG	1102	-9.022	104.587	42.529	1.00	0.00	C
ATOM	10465	CB	ARG	1102	-8.276	103.469	43.280	1.00	0.00	C
ATOM	10466	CG	ARG	1102	-9.072	102.167	43.384	1.00	0.00	C
ATOM	10467	CD	ARG	1102	-8.202	100.907	43.335	1.00	0.00	C
ATOM	10468	NE	ARG	1102	-6.851	101.249	43.860	1.00	0.00	N
ATOM	10469	HE	ARG	1102	-6.751	101.955	44.590	1.00	0.00	H
ATOM	10470	CZ	ARG	1102	-5.744	100.617	43.364	1.00	0.00	C
ATOM	10471	NH1	ARG	1102	-5.859	99.724	42.340	1.00	0.00	N
ATOM	10472	1HH1	ARG	1102	-6.778	99.526	41.945	1.00	0.00	H
ATOM	10473	2HH1	ARG	1102	-5.033	99.253	41.970	1.00	0.00	H
ATOM	10474	NH2	ARG	1102	-4.513	100.882	43.893	1.00	0.00	N
ATOM	10475	1HH2	ARG	1102	-4.427	101.550	44.659	1.00	0.00	H
ATOM	10476	2HH2	ARG	1102	-3.687	100.411	43.523	1.00	0.00	H
ATOM	10477	C	ARG	1102	-10.269	104.978	43.261	1.00	0.00	C
ATOM	10478	O	ARG	1102	-11.277	104.277	43.208	1.00	0.00	O
ATOM	10479	N	GLN	1103	-10.234	106.126	43.962	1.00	0.00	N
ATOM	10480	HN	GLN	1103	-9.394	106.704	43.929	1.00	0.00	H
ATOM	10481	CA	GLN	1103	-11.352	106.558	44.756	1.00	0.00	C
ATOM	10482	CB	GLN	1103	-12.589	106.910	43.910	1.00	0.00	C
ATOM	10483	CG	GLN	1103	-12.366	108.032	42.893	1.00	0.00	C
ATOM	10484	CD	GLN	1103	-12.300	109.367	43.622	1.00	0.00	C
ATOM	10485	OE1	GLN	1103	-12.105	109.423	44.836	1.00	0.00	O
ATOM	10486	NE2	GLN	1103	-12.467	110.479	42.856	1.00	0.00	N
ATOM	10487	1HE2	GLN	1103	-12.629	110.433	41.850	1.00	0.00	H
ATOM	10488	2HE2	GLN	1103	-12.423	111.373	43.344	1.00	0.00	H
ATOM	10489	C	GLN	1103	-11.766	105.464	45.713	1.00	0.00	C
ATOM	10490	O	GLN	1103	-12.851	104.901	45.556	1.00	0.00	O
ATOM	10491	N	PRO	1104	-10.949	105.123	46.695	1.00	0.00	N
ATOM	10492	CA	PRO	1104	-11.296	104.091	47.641	1.00	0.00	C
ATOM	10493	CD	PRO	1104	-9.498	105.254	46.587	1.00	0.00	C
ATOM	10494	CB	PRO	1104	-9.994	103.644	48.301	1.00	0.00	C
ATOM	10495	CG	PRO	1104	-8.905	104.034	47.296	1.00	0.00	C
ATOM	10496	C	PRO	1104	-12.247	104.624	48.666	1.00	0.00	C
ATOM	10497	O	PRO	1104	-12.756	105.727	48.486	1.00	0.00	O
ATOM	10498	N	HIS	1105	-12.707	103.755	49.587	1.00	0.00	N
ATOM	10499	HN	HIS	1105	-12.539	102.763	49.418	1.00	0.00	H
ATOM	10500	CA	HIS	1105	-13.414	104.107	50.787	1.00	0.00	C
ATOM	10501	ND1	HIS	1105	-15.551	103.047	48.599	1.00	0.00	N
ATOM	10502	HD1	HIS	1105	-14.829	102.414	48.254	1.00	0.00	H
ATOM	10503	CG	HIS	1105	-15.661	103.550	49.877	1.00	0.00	C
ATOM	10504	CB	HIS	1105	-14.678	103.257	50.976	1.00	0.00	C
ATOM	10505	NE2	HIS	1105	-17.354	104.349	48.616	1.00	0.00	N

ATOM	10506	HE2	HIS	1105	-18.190	104.853	48.320	1.00	0.00	H
ATOM	10507	CD2	HIS	1105	-16.767	104.342	49.870	1.00	0.00	C
ATOM	10508	CE1	HIS	1105	-16.587	103.556	47.889	1.00	0.00	C
ATOM	10509	C	HIS	1105	-12.550	104.036	52.020	1.00	0.00	C
ATOM	10510	O	HIS	1105	-12.803	104.704	53.021	1.00	0.00	O
ATOM	10511	N	ILE	1106	-11.530	103.156	52.002	1.00	0.00	N
ATOM	10512	HN	ILE	1106	-11.334	102.643	51.142	1.00	0.00	H
ATOM	10513	CA	ILE	1106	-10.710	102.918	53.159	1.00	0.00	C
ATOM	10514	CB	ILE	1106	-10.824	101.487	53.636	1.00	0.00	C
ATOM	10515	CG1	ILE	1106	-10.459	101.296	55.125	1.00	0.00	C
ATOM	10516	CG2	ILE	1106	-10.001	100.618	52.672	1.00	0.00	C
ATOM	10517	CD1	ILE	1106	-8.990	101.467	55.496	1.00	0.00	C
ATOM	10518	C	ILE	1106	-9.303	103.196	52.702	1.00	0.00	C
ATOM	10519	O	ILE	1106	-9.065	103.256	51.497	1.00	0.00	O
ATOM	10520	N	LEU	1107	-8.353	103.466	53.631	1.00	0.00	N
ATOM	10521	HN	LEU	1107	-8.597	103.483	54.621	1.00	0.00	H
ATOM	10522	CA	LEU	1107	-6.995	103.730	53.217	1.00	0.00	C
ATOM	10523	CB	LEU	1107	-6.632	105.222	53.258	1.00	0.00	C
ATOM	10524	CG	LEU	1107	-7.526	106.129	52.392	1.00	0.00	C
ATOM	10525	CD1	LEU	1107	-7.084	107.595	52.505	1.00	0.00	C
ATOM	10526	CD2	LEU	1107	-7.585	105.644	50.934	1.00	0.00	C
ATOM	10527	C	LEU	1107	-6.023	103.052	54.147	1.00	0.00	C
ATOM	10528	O	LEU	1107	-6.207	103.025	55.362	1.00	0.00	O
ATOM	10529	N	LEU	1108	-4.939	102.483	53.582	1.00	0.00	N
ATOM	10530	HN	LEU	1108	-4.857	102.492	52.565	1.00	0.00	H
ATOM	10531	CA	LEU	1108	-3.898	101.867	54.349	1.00	0.00	C
ATOM	10532	CB	LEU	1108	-3.546	100.458	53.841	1.00	0.00	C
ATOM	10533	CG	LEU	1108	-4.756	99.501	53.811	1.00	0.00	C
ATOM	10534	CD1	LEU	1108	-4.346	98.094	53.350	1.00	0.00	C
ATOM	10535	CD2	LEU	1108	-5.508	99.499	55.153	1.00	0.00	C
ATOM	10536	C	LEU	1108	-2.682	102.720	54.160	1.00	0.00	C
ATOM	10537	O	LEU	1108	-1.963	102.601	53.168	1.00	0.00	O
ATOM	10538	N	LEU	1109	-2.418	103.608	55.131	1.00	0.00	N
ATOM	10539	HN	LEU	1109	-3.027	103.662	55.947	1.00	0.00	H
ATOM	10540	CA	LEU	1109	-1.288	104.480	55.029	1.00	0.00	C
ATOM	10541	CB	LEU	1109	-1.665	105.900	55.477	1.00	0.00	C
ATOM	10542	CG	LEU	1109	-2.571	106.635	54.458	1.00	0.00	C
ATOM	10543	CD1	LEU	1109	-3.756	105.788	53.969	1.00	0.00	C
ATOM	10544	CD2	LEU	1109	-3.104	107.928	55.070	1.00	0.00	C
ATOM	10545	C	LEU	1109	-0.240	103.898	55.922	1.00	0.00	C
ATOM	10546	O	LEU	1109	-0.142	104.238	57.100	1.00	0.00	O
ATOM	10547	N	ASP	1110	0.595	103.017	55.334	1.00	0.00	N
ATOM	10548	HN	ASP	1110	0.522	102.890	54.325	1.00	0.00	H
ATOM	10549	CA	ASP	1110	1.579	102.247	56.037	1.00	0.00	C
ATOM	10550	CB	ASP	1110	1.929	100.953	55.274	1.00	0.00	C
ATOM	10551	CG	ASP	1110	2.856	100.056	56.088	1.00	0.00	C
ATOM	10552	OD1	ASP	1110	3.875	100.552	56.640	1.00	0.00	O
ATOM	10553	OD2	ASP	1110	2.546	98.837	56.160	1.00	0.00	O
ATOM	10554	C	ASP	1110	2.832	103.039	56.188	1.00	0.00	C
ATOM	10555	O	ASP	1110	3.748	102.885	55.380	1.00	0.00	O
ATOM	10556	N	GLU	1111	2.881	103.898	57.232	1.00	0.00	N
ATOM	10557	HN	GLU	1111	2.044	104.003	57.805	1.00	0.00	H
ATOM	10558	CA	GLU	1111	4.041	104.673	57.584	1.00	0.00	C
ATOM	10559	CB	GLU	1111	5.182	103.835	58.191	1.00	0.00	C
ATOM	10560	CG	GLU	1111	4.856	103.236	59.555	1.00	0.00	C
ATOM	10561	CD	GLU	1111	6.080	102.471	60.039	1.00	0.00	C
ATOM	10562	OE1	GLU	1111	6.670	101.712	59.224	1.00	0.00	O
ATOM	10563	OE2	GLU	1111	6.449	102.645	61.230	1.00	0.00	O
ATOM	10564	C	GLU	1111	4.583	105.282	56.343	1.00	0.00	C
ATOM	10565	O	GLU	1111	5.804	105.371	56.209	1.00	0.00	O
ATOM	10566	N	ALA	1112	3.689	105.779	55.457	1.00	0.00	N
ATOM	10567	HN	ALA	1112	2.715	105.898	55.736	1.00	0.00	H
ATOM	10568	CA	ALA	1112	4.096	106.140	54.130	1.00	0.00	C
ATOM	10569	CB	ALA	1112	2.969	106.839	53.350	1.00	0.00	C
ATOM	10570	C	ALA	1112	5.254	107.082	54.186	1.00	0.00	C
ATOM	10571	O	ALA	1112	6.346	106.710	53.765	1.00	0.00	O
ATOM	10572	N	THR	1113	5.116	108.242	54.848	1.00	0.00	N
ATOM	10573	HN	THR	1113	4.240	108.477	55.315	1.00	0.00	H
ATOM	10574	CA	THR	1113	6.232	109.143	54.882	1.00	0.00	C
ATOM	10575	CB	THR	1113	5.795	110.566	55.080	1.00	0.00	C
ATOM	10576	OG1	THR	1113	4.910	110.958	54.042	1.00	0.00	O
ATOM	10577	HG1	THR	1113	4.147	110.392	54.042	1.00	0.00	H
ATOM	10578	CG2	THR	1113	7.027	111.479	55.080	1.00	0.00	C
ATOM	10579	C	THR	1113	7.046	108.750	56.080	1.00	0.00	C

ATOM	10580	O	THR	1113	6.858	109.270	57.179	1.00	0.00	O
ATOM	10581	N	SER	1114	7.887	107.713	55.918	1.00	0.00	N
ATOM	10582	HN	SER	1114	7.872	107.217	55.027	1.00	0.00	H
ATOM	10583	CA	SER	1114	8.804	107.264	56.925	1.00	0.00	C
ATOM	10584	CB	SER	1114	8.965	105.733	56.899	1.00	0.00	C
ATOM	10585	OG	SER	1114	9.839	105.305	57.932	1.00	0.00	O
ATOM	10586	HG	SER	1114	9.938	104.360	57.916	1.00	0.00	H
ATOM	10587	C	SER	1114	10.143	107.890	56.693	1.00	0.00	C
ATOM	10588	O	SER	1114	10.980	107.918	57.589	1.00	0.00	O
ATOM	10589	N	ALA	1115	10.414	108.332	55.448	1.00	0.00	N
ATOM	10590	HN	ALA	1115	9.726	108.208	54.705	1.00	0.00	H
ATOM	10591	CA	ALA	1115	11.663	108.975	55.161	1.00	0.00	C
ATOM	10592	CB	ALA	1115	12.692	108.044	54.496	1.00	0.00	C
ATOM	10593	C	ALA	1115	11.355	110.066	54.184	1.00	0.00	C
ATOM	10594	O	ALA	1115	10.876	109.797	53.083	1.00	0.00	O
ATOM	10595	N	LEU	1116	11.637	111.329	54.566	1.00	0.00	N
ATOM	10596	HN	LEU	1116	12.066	111.484	55.479	1.00	0.00	H
ATOM	10597	CA	LEU	1116	11.354	112.464	53.731	1.00	0.00	C
ATOM	10598	CB	LEU	1116	9.852	112.749	53.506	1.00	0.00	C
ATOM	10599	CG	LEU	1116	9.167	111.849	52.461	1.00	0.00	C
ATOM	10600	CD1	LEU	1116	7.678	112.191	52.290	1.00	0.00	C
ATOM	10601	CD2	LEU	1116	9.905	111.920	51.118	1.00	0.00	C
ATOM	10602	C	LEU	1116	11.928	113.696	54.367	1.00	0.00	C
ATOM	10603	O	LEU	1116	12.816	113.611	55.215	1.00	0.00	O
ATOM	10604	N	ASP	1117	11.440	114.879	53.914	1.00	0.00	N
ATOM	10605	HN	ASP	1117	10.727	114.852	53.185	1.00	0.00	H
ATOM	10606	CA	ASP	1117	11.862	116.172	54.395	1.00	0.00	C
ATOM	10607	CB	ASP	1117	12.605	117.015	53.356	1.00	0.00	C
ATOM	10608	CG	ASP	1117	13.943	116.379	53.039	1.00	0.00	C
ATOM	10609	OD1	ASP	1117	14.466	115.593	53.873	1.00	0.00	O
ATOM	10610	OD2	ASP	1117	14.458	116.686	51.934	1.00	0.00	O
ATOM	10611	C	ASP	1117	10.658	117.009	54.738	1.00	0.00	C
ATOM	10612	O	ASP	1117	9.524	116.541	54.693	1.00	0.00	O
ATOM	10613	N	THR	1118	10.904	118.308	55.050	1.00	0.00	N
ATOM	10614	HN	THR	1118	11.852	118.658	54.909	1.00	0.00	H
ATOM	10615	CA	THR	1118	9.921	119.228	55.567	1.00	0.00	C
ATOM	10616	CB	THR	1118	10.483	120.593	55.845	1.00	0.00	C
ATOM	10617	OG1	THR	1118	10.943	121.202	54.646	1.00	0.00	O
ATOM	10618	HG1	THR	1118	10.227	121.294	54.028	1.00	0.00	H
ATOM	10619	CG2	THR	1118	11.639	120.444	56.842	1.00	0.00	C
ATOM	10620	C	THR	1118	8.724	119.455	54.684	1.00	0.00	C
ATOM	10621	O	THR	1118	7.602	119.176	55.100	1.00	0.00	O
ATOM	10622	N	GLU	1119	8.910	119.966	53.452	1.00	0.00	N
ATOM	10623	HN	GLU	1119	9.860	120.124	53.116	1.00	0.00	H
ATOM	10624	CA	GLU	1119	7.798	120.295	52.597	1.00	0.00	C
ATOM	10625	CB	GLU	1119	8.212	121.112	51.365	1.00	0.00	C
ATOM	10626	CG	GLU	1119	9.177	120.374	50.442	1.00	0.00	C
ATOM	10627	CD	GLU	1119	9.462	121.283	49.258	1.00	0.00	C
ATOM	10628	OE1	GLU	1119	8.478	121.822	48.683	1.00	0.00	O
ATOM	10629	OE2	GLU	1119	10.662	121.456	48.916	1.00	0.00	O
ATOM	10630	C	GLU	1119	7.157	119.045	52.104	1.00	0.00	C
ATOM	10631	O	GLU	1119	5.951	118.983	51.880	1.00	0.00	O
ATOM	10632	N	SER	1120	7.978	118.019	51.857	1.00	0.00	N
ATOM	10633	HN	SER	1120	8.981	118.107	52.018	1.00	0.00	H
ATOM	10634	CA	SER	1120	7.427	116.802	51.366	1.00	0.00	C
ATOM	10635	CB	SER	1120	8.516	115.776	51.003	1.00	0.00	C
ATOM	10636	OG	SER	1120	9.340	115.515	52.129	1.00	0.00	O
ATOM	10637	HG	SER	1120	10.012	114.882	51.905	1.00	0.00	H
ATOM	10638	C	SER	1120	6.563	116.240	52.434	1.00	0.00	C
ATOM	10639	O	SER	1120	5.390	115.949	52.209	1.00	0.00	O
ATOM	10640	N	GLU	1121	7.113	116.130	53.656	1.00	0.00	N
ATOM	10641	HN	GLU	1121	8.053	116.481	53.836	1.00	0.00	H
ATOM	10642	CA	GLU	1121	6.356	115.512	54.697	1.00	0.00	C
ATOM	10643	CB	GLU	1121	7.108	115.488	56.034	1.00	0.00	C
ATOM	10644	CG	GLU	1121	8.284	114.512	56.055	1.00	0.00	C
ATOM	10645	CD	GLU	1121	9.096	114.805	57.307	1.00	0.00	C
ATOM	10646	OE1	GLU	1121	9.061	115.975	57.772	1.00	0.00	O
ATOM	10647	OE2	GLU	1121	9.763	113.862	57.812	1.00	0.00	O
ATOM	10648	C	GLU	1121	5.105	116.296	54.909	1.00	0.00	C
ATOM	10649	O	GLU	1121	4.008	115.760	54.776	1.00	0.00	O
ATOM	10650	N	LYS	1122	5.240	117.614	55.144	1.00	0.00	N
ATOM	10651	HN	LYS	1122	6.164	118.043	55.089	1.00	0.00	H
ATOM	10652	CA	LYS	1122	4.103	118.421	55.470	1.00	0.00	C
ATOM	10653	CB	LYS	1122	4.491	119.895	55.743	1.00	0.00	C



ATOM	10654	CG	LYS	1122	3.322	120.853	56.016	1.00	0.00	C
ATOM	10655	CD	LYS	1122	2.520	121.234	54.765	1.00	0.00	C
ATOM	10656	CE	LYS	1122	1.104	121.740	55.029	1.00	0.00	C
ATOM	10657	NZ	LYS	1122	0.308	121.619	53.786	1.00	0.00	N
ATOM	10658	HZ1	LYS	1122	-0.638	121.957	53.962	1.00	0.00	H
ATOM	10659	HZ2	LYS	1122	0.318	120.671	53.410	1.00	0.00	H
ATOM	10660	HZ3	LYS	1122	0.748	122.091	52.996	1.00	0.00	H
ATOM	10661	C	LYS	1122	3.094	118.394	54.371	1.00	0.00	C
ATOM	10662	O	LYS	1122	1.935	118.066	54.612	1.00	0.00	O
ATOM	10663	N	VAL	1123	3.507	118.683	53.125	1.00	0.00	N
ATOM	10664	HN	VAL	1123	4.501	118.808	52.932	1.00	0.00	H
ATOM	10665	CA	VAL	1123	2.546	118.816	52.066	1.00	0.00	C
ATOM	10666	CB	VAL	1123	3.154	119.129	50.724	1.00	0.00	C
ATOM	10667	CG1	VAL	1123	4.005	117.935	50.263	1.00	0.00	C
ATOM	10668	CG2	VAL	1123	2.017	119.478	49.747	1.00	0.00	C
ATOM	10669	C	VAL	1123	1.795	117.531	51.934	1.00	0.00	C
ATOM	10670	O	VAL	1123	0.586	117.534	51.712	1.00	0.00	O
ATOM	10671	N	VAL	1124	2.504	116.398	52.083	1.00	0.00	N
ATOM	10672	HN	VAL	1124	3.498	116.470	52.302	1.00	0.00	H
ATOM	10673	CA	VAL	1124	1.926	115.094	51.948	1.00	0.00	C
ATOM	10674	CB	VAL	1124	2.924	113.979	52.095	1.00	0.00	C
ATOM	10675	CG1	VAL	1124	2.153	112.651	52.157	1.00	0.00	C
ATOM	10676	CG2	VAL	1124	3.917	114.036	50.923	1.00	0.00	C
ATOM	10677	C	VAL	1124	0.904	114.892	53.016	1.00	0.00	C
ATOM	10678	O	VAL	1124	-0.125	114.267	52.779	1.00	0.00	O
ATOM	10679	N	GLN	1125	1.169	115.405	54.230	1.00	0.00	N
ATOM	10680	HN	GLN	1125	2.041	115.915	54.375	1.00	0.00	H
ATOM	10681	CA	GLN	1125	0.259	115.254	55.325	1.00	0.00	C
ATOM	10682	CB	GLN	1125	0.760	115.929	56.611	1.00	0.00	C
ATOM	10683	CG	GLN	1125	2.086	115.370	57.129	1.00	0.00	C
ATOM	10684	CD	GLN	1125	1.851	113.954	57.634	1.00	0.00	C
ATOM	10685	OE1	GLN	1125	0.793	113.367	57.413	1.00	0.00	O
ATOM	10686	NE2	GLN	1125	2.871	113.387	58.331	1.00	0.00	N
ATOM	10687	1HE2	GLN	1125	3.748	113.874	58.514	1.00	0.00	H
ATOM	10688	2HE2	GLN	1125	2.713	112.438	58.670	1.00	0.00	H
ATOM	10689	C	GLN	1125	-0.996	115.946	54.920	1.00	0.00	C
ATOM	10690	O	GLN	1125	-2.089	115.526	55.295	1.00	0.00	O
ATOM	10691	N	GLU	1126	-0.850	117.063	54.180	1.00	0.00	N
ATOM	10692	HN	GLU	1126	0.093	117.388	53.965	1.00	0.00	H
ATOM	10693	CA	GLU	1126	-1.965	117.811	53.683	1.00	0.00	C
ATOM	10694	CB	GLU	1126	-1.558	119.128	52.993	1.00	0.00	C
ATOM	10695	CG	GLU	1126	-2.741	119.964	52.485	1.00	0.00	C
ATOM	10696	CD	GLU	1126	-3.027	119.609	51.029	1.00	0.00	C
ATOM	10697	OE1	GLU	1126	-2.115	119.806	50.184	1.00	0.00	O
ATOM	10698	OE2	GLU	1126	-4.163	119.143	50.740	1.00	0.00	O
ATOM	10699	C	GLU	1126	-2.687	116.975	52.674	1.00	0.00	C
ATOM	10700	O	GLU	1126	-3.917	116.966	52.640	1.00	0.00	O
ATOM	10701	N	ALA	1127	-1.940	116.269	51.799	1.00	0.00	N
ATOM	10702	HN	ALA	1127	-0.922	116.308	51.840	1.00	0.00	H
ATOM	10703	CA	ALA	1127	-2.597	115.462	50.810	1.00	0.00	C
ATOM	10704	CB	ALA	1127	-1.619	114.820	49.815	1.00	0.00	C
ATOM	10705	C	ALA	1127	-3.334	114.359	51.501	1.00	0.00	C
ATOM	10706	O	ALA	1127	-4.547	114.231	51.380	1.00	0.00	O
ATOM	10707	N	LEU	1128	-2.623	113.623	52.369	1.00	0.00	N
ATOM	10708	HN	LEU	1128	-1.645	113.871	52.522	1.00	0.00	H
ATOM	10709	CA	LEU	1128	-3.158	112.510	53.093	1.00	0.00	C
ATOM	10710	CB	LEU	1128	-2.108	111.999	54.107	1.00	0.00	C
ATOM	10711	CG	LEU	1128	-2.472	110.797	55.007	1.00	0.00	C
ATOM	10712	CD1	LEU	1128	-1.278	110.428	55.903	1.00	0.00	C
ATOM	10713	CD2	LEU	1128	-3.739	111.011	55.850	1.00	0.00	C
ATOM	10714	C	LEU	1128	-4.322	113.068	53.845	1.00	0.00	C
ATOM	10715	O	LEU	1128	-5.324	112.383	54.057	1.00	0.00	O
ATOM	10716	N	ASP	1129	-4.191	114.336	54.289	1.00	0.00	N
ATOM	10717	HN	ASP	1129	-3.341	114.855	54.067	1.00	0.00	H
ATOM	10718	CA	ASP	1129	-5.216	114.971	55.064	1.00	0.00	C
ATOM	10719	CB	ASP	1129	-4.825	116.395	55.490	1.00	0.00	C
ATOM	10720	CG	ASP	1129	-5.908	116.936	56.415	1.00	0.00	C
ATOM	10721	OD1	ASP	1129	-6.810	116.148	56.808	1.00	0.00	O
ATOM	10722	OD2	ASP	1129	-5.849	118.151	56.742	1.00	0.00	O
ATOM	10723	C	ASP	1129	-6.500	115.088	54.295	1.00	0.00	C
ATOM	10724	O	ASP	1129	-7.511	114.496	54.667	1.00	0.00	O
ATOM	10725	N	LYS	1130	-6.479	115.815	53.163	1.00	0.00	N
ATOM	10726	HN	LYS	1130	-5.589	116.201	52.847	1.00	0.00	H
ATOM	10727	CA	LYS	1130	-7.657	116.071	52.379	1.00	0.00	C

ATOM	10728	CB	LYS	1130	-7.389	116.996	51.179	1.00	0.00	C
ATOM	10729	CG	LYS	1130	-6.742	118.329	51.564	1.00	0.00	C
ATOM	10730	CD	LYS	1130	-7.519	119.113	52.622	1.00	0.00	C
ATOM	10731	CE	LYS	1130	-7.089	118.780	54.053	1.00	0.00	C
ATOM	10732	NZ	LYS	1130	-7.895	119.557	55.020	1.00	0.00	N
ATOM	10733	HZ1	LYS	1130	-7.608	119.335	55.973	1.00	0.00	H
ATOM	10734	HZ2	LYS	1130	-8.896	119.419	54.880	1.00	0.00	H
ATOM	10735	HZ3	LYS	1130	-7.854	120.559	54.833	1.00	0.00	H
ATOM	10736	C	LYS	1130	-8.090	114.763	51.825	1.00	0.00	C
ATOM	10737	O	LYS	1130	-9.255	114.548	51.499	1.00	0.00	O
ATOM	10738	N	ALA	1131	-7.108	113.869	51.667	1.00	0.00	N
ATOM	10739	HN	ALA	1131	-6.168	114.137	51.958	1.00	0.00	H
ATOM	10740	CA	ALA	1131	-7.290	112.567	51.119	1.00	0.00	C
ATOM	10741	CB	ALA	1131	-5.982	111.764	51.050	1.00	0.00	C
ATOM	10742	C	ALA	1131	-8.230	111.820	52.006	1.00	0.00	C
ATOM	10743	O	ALA	1131	-9.025	111.015	51.525	1.00	0.00	O
ATOM	10744	N	ARG	1132	-8.133	112.050	53.333	1.00	0.00	N
ATOM	10745	HN	ARG	1132	-7.464	112.740	53.674	1.00	0.00	H
ATOM	10746	CA	ARG	1132	-8.954	111.341	54.272	1.00	0.00	C
ATOM	10747	CB	ARG	1132	-8.239	110.996	55.578	1.00	0.00	C
ATOM	10748	CG	ARG	1132	-7.839	112.234	56.372	1.00	0.00	C
ATOM	10749	CD	ARG	1132	-7.117	111.887	57.671	1.00	0.00	C
ATOM	10750	NE	ARG	1132	-7.067	113.116	58.507	1.00	0.00	N
ATOM	10751	HE	ARG	1132	-7.933	113.556	58.818	1.00	0.00	H
ATOM	10752	CZ	ARG	1132	-5.866	113.656	58.858	1.00	0.00	C
ATOM	10753	NH1	ARG	1132	-4.705	113.087	58.417	1.00	0.00	N
ATOM	10754	1HH1	ARG	1132	-4.733	112.262	57.818	1.00	0.00	H
ATOM	10755	2HH1	ARG	1132	-3.806	113.491	58.680	1.00	0.00	H
ATOM	10756	NH2	ARG	1132	-5.829	114.759	59.659	1.00	0.00	N
ATOM	10757	1HH2	ARG	1132	-6.696	115.184	59.988	1.00	0.00	H
ATOM	10758	2HH2	ARG	1132	-4.930	115.163	59.922	1.00	0.00	H
ATOM	10759	C	ARG	1132	-10.135	112.185	54.646	1.00	0.00	C
ATOM	10760	O	ARG	1132	-10.418	113.213	54.037	1.00	0.00	O
ATOM	10761	N	GLU	1133	-10.915	111.688	55.627	1.00	0.00	N
ATOM	10762	HN	GLU	1133	-10.635	110.788	56.016	1.00	0.00	H
ATOM	10763	CA	GLU	1133	-12.100	112.286	56.187	1.00	0.00	C
ATOM	10764	CB	GLU	1133	-11.935	113.774	56.541	1.00	0.00	C
ATOM	10765	CG	GLU	1133	-13.168	114.364	57.232	1.00	0.00	C
ATOM	10766	CD	GLU	1133	-13.235	113.802	58.648	1.00	0.00	C
ATOM	10767	OE1	GLU	1133	-13.735	112.660	58.810	1.00	0.00	O
ATOM	10768	OE2	GLU	1133	-12.779	114.512	59.587	1.00	0.00	O
ATOM	10769	C	GLU	1133	-13.202	112.170	55.188	1.00	0.00	C
ATOM	10770	O	GLU	1133	-14.382	112.206	55.532	1.00	0.00	O
ATOM	10771	N	GLY	1134	-12.833	112.014	53.910	1.00	0.00	N
ATOM	10772	HN	GLY	1134	-11.847	112.121	53.671	1.00	0.00	H
ATOM	10773	CA	GLY	1134	-13.756	111.706	52.870	1.00	0.00	C
ATOM	10774	C	GLY	1134	-14.056	110.259	53.051	1.00	0.00	C
ATOM	10775	O	GLY	1134	-15.145	109.782	52.735	1.00	0.00	O
ATOM	10776	N	ARG	1135	-13.030	109.524	53.535	1.00	0.00	N
ATOM	10777	HN	ARG	1135	-12.177	109.999	53.829	1.00	0.00	H
ATOM	10778	CA	ARG	1135	-13.105	108.096	53.647	1.00	0.00	C
ATOM	10779	CB	ARG	1135	-12.305	107.349	52.574	1.00	0.00	C
ATOM	10780	CG	ARG	1135	-12.791	107.513	51.150	1.00	0.00	C
ATOM	10781	CD	ARG	1135	-12.384	108.852	50.544	1.00	0.00	C
ATOM	10782	NE	ARG	1135	-10.901	108.936	50.610	1.00	0.00	N
ATOM	10783	HE	ARG	1135	-10.453	109.463	51.360	1.00	0.00	H
ATOM	10784	CZ	ARG	1135	-10.139	108.309	49.668	1.00	0.00	C
ATOM	10785	NH1	ARG	1135	-10.733	107.529	48.717	1.00	0.00	N
ATOM	10786	1HH1	ARG	1135	-10.163	107.060	48.013	1.00	0.00	H
ATOM	10787	2HH1	ARG	1135	-11.747	107.419	48.713	1.00	0.00	H
ATOM	10788	NH2	ARG	1135	-8.782	108.456	49.674	1.00	0.00	N
ATOM	10789	1HH2	ARG	1135	-8.212	107.987	48.970	1.00	0.00	H
ATOM	10790	2HH2	ARG	1135	-8.338	109.038	50.384	1.00	0.00	H
ATOM	10791	C	ARG	1135	-12.415	107.637	54.886	1.00	0.00	C
ATOM	10792	O	ARG	1135	-11.612	108.351	55.485	1.00	0.00	O
ATOM	10793	N	THR	1136	-12.705	106.376	55.260	1.00	0.00	N
ATOM	10794	HN	THR	1136	-13.390	105.847	54.720	1.00	0.00	H
ATOM	10795	CA	THR	1136	-12.086	105.754	56.388	1.00	0.00	C
ATOM	10796	CB	THR	1136	-12.756	104.474	56.797	1.00	0.00	C
ATOM	10797	OG1	THR	1136	-14.115	104.713	57.126	1.00	0.00	O
ATOM	10798	HG1	THR	1136	-14.574	105.076	56.378	1.00	0.00	H
ATOM	10799	CG2	THR	1136	-12.013	103.887	58.007	1.00	0.00	C
ATOM	10800	C	THR	1136	-10.688	105.413	55.992	1.00	0.00	C
ATOM	10801	O	THR	1136	-10.422	105.065	54.841	1.00	0.00	O

ATOM	10802	N	CYS	1137	-9.738	105.536	56.941	1.00	0.00	N
ATOM	10803	HN	CYS	1137	-9.967	105.868	57.878	1.00	0.00	H
ATOM	10804	CA	CYS	1137	-8.398	105.184	56.587	1.00	0.00	C
ATOM	10805	CB	CYS	1137	-7.665	106.287	55.800	1.00	0.00	C
ATOM	10806	SG	CYS	1137	-7.477	107.845	56.714	1.00	0.00	S
ATOM	10807	C	CYS	1137	-7.615	104.863	57.818	1.00	0.00	C
ATOM	10808	O	CYS	1137	-7.617	105.599	58.804	1.00	0.00	O
ATOM	10809	N	ILE	1138	-6.887	103.736	57.781	1.00	0.00	N
ATOM	10810	HN	ILE	1138	-6.896	103.134	56.958	1.00	0.00	H
ATOM	10811	CA	ILE	1138	-6.101	103.402	58.922	1.00	0.00	C
ATOM	10812	CB	ILE	1138	-6.017	101.924	59.182	1.00	0.00	C
ATOM	10813	CG1	ILE	1138	-7.429	101.343	59.371	1.00	0.00	C
ATOM	10814	CG2	ILE	1138	-5.120	101.703	60.410	1.00	0.00	C
ATOM	10815	CD1	ILE	1138	-7.464	99.816	59.397	1.00	0.00	C
ATOM	10816	C	ILE	1138	-4.743	103.921	58.620	1.00	0.00	C
ATOM	10817	O	ILE	1138	-3.994	103.357	57.822	1.00	0.00	O
ATOM	10818	N	VAL	1139	-4.424	105.074	59.232	1.00	0.00	N
ATOM	10819	HN	VAL	1139	-5.109	105.559	59.812	1.00	0.00	H
ATOM	10820	CA	VAL	1139	-3.118	105.607	59.059	1.00	0.00	C
ATOM	10821	CB	VAL	1139	-3.040	107.112	59.102	1.00	0.00	C
ATOM	10822	CG1	VAL	1139	-3.852	107.656	57.922	1.00	0.00	C
ATOM	10823	CG2	VAL	1139	-3.544	107.644	60.450	1.00	0.00	C
ATOM	10824	C	VAL	1139	-2.341	105.023	60.184	1.00	0.00	C
ATOM	10825	O	VAL	1139	-2.652	105.230	61.358	1.00	0.00	O
ATOM	10826	N	ILE	1140	-1.326	104.211	59.851	1.00	0.00	N
ATOM	10827	HN	ILE	1140	-1.096	103.999	58.880	1.00	0.00	H
ATOM	10828	CA	ILE	1140	-0.589	103.664	60.943	1.00	0.00	C
ATOM	10829	CB	ILE	1140	-0.506	102.164	61.018	1.00	0.00	C
ATOM	10830	CG1	ILE	1140	0.493	101.594	60.011	1.00	0.00	C
ATOM	10831	CG2	ILE	1140	-1.931	101.639	60.775	1.00	0.00	C
ATOM	10832	CD1	ILE	1140	0.163	101.961	58.589	1.00	0.00	C
ATOM	10833	C	ILE	1140	0.789	104.150	60.708	1.00	0.00	C
ATOM	10834	O	ILE	1140	1.199	104.321	59.560	1.00	0.00	O
ATOM	10835	N	ALA	1141	1.536	104.439	61.783	1.00	0.00	N
ATOM	10836	HN	ALA	1141	1.197	104.296	62.735	1.00	0.00	H
ATOM	10837	CA	ALA	1141	2.834	104.959	61.509	1.00	0.00	C
ATOM	10838	CB	ALA	1141	2.800	106.411	61.004	1.00	0.00	C
ATOM	10839	C	ALA	1141	3.673	104.952	62.741	1.00	0.00	C
ATOM	10840	O	ALA	1141	3.228	104.628	63.843	1.00	0.00	O
ATOM	10841	N	HIS	1142	4.974	105.190	62.502	1.00	0.00	N
ATOM	10842	HN	HIS	1142	5.259	105.228	61.523	1.00	0.00	H
ATOM	10843	CA	HIS	1142	6.000	105.395	63.475	1.00	0.00	C
ATOM	10844	ND1	HIS	1142	8.350	104.201	65.211	1.00	0.00	N
ATOM	10845	HD1	HIS	1142	7.709	103.418	65.337	1.00	0.00	H
ATOM	10846	CG	HIS	1142	8.378	105.077	64.150	1.00	0.00	C
ATOM	10847	CB	HIS	1142	7.412	105.024	63.003	1.00	0.00	C
ATOM	10848	NE2	HIS	1142	10.001	105.633	65.613	1.00	0.00	N
ATOM	10849	HE2	HIS	1142	10.785	106.110	66.058	1.00	0.00	H
ATOM	10850	CD2	HIS	1142	9.395	105.946	64.411	1.00	0.00	C
ATOM	10851	CE1	HIS	1142	9.340	104.580	66.057	1.00	0.00	C
ATOM	10852	C	HIS	1142	6.009	106.837	63.876	1.00	0.00	C
ATOM	10853	O	HIS	1142	6.726	107.221	64.796	1.00	0.00	O
ATOM	10854	N	ARG	1143	5.304	107.697	63.115	1.00	0.00	N
ATOM	10855	HN	ARG	1143	4.742	107.348	62.339	1.00	0.00	H
ATOM	10856	CA	ARG	1143	5.343	109.104	63.395	1.00	0.00	C
ATOM	10857	CB	ARG	1143	4.731	109.932	62.256	1.00	0.00	C
ATOM	10858	CG	ARG	1143	5.276	111.354	62.168	1.00	0.00	C
ATOM	10859	CD	ARG	1143	6.664	111.403	61.525	1.00	0.00	C
ATOM	10860	NE	ARG	1143	6.494	111.036	60.089	1.00	0.00	N
ATOM	10861	HE	ARG	1143	6.600	110.066	59.793	1.00	0.00	H
ATOM	10862	CZ	ARG	1143	6.196	112.003	59.173	1.00	0.00	C
ATOM	10863	NH1	ARG	1143	6.108	113.307	59.568	1.00	0.00	N
ATOM	10864	1HH1	ARG	1143	5.885	114.030	58.883	1.00	0.00	H
ATOM	10865	2HH1	ARG	1143	6.265	113.546	60.547	1.00	0.00	H
ATOM	10866	NH2	ARG	1143	5.986	111.683	57.863	1.00	0.00	N
ATOM	10867	1HH2	ARG	1143	5.763	112.406	57.178	1.00	0.00	H
ATOM	10868	2HH2	ARG	1143	6.052	110.709	57.568	1.00	0.00	H
ATOM	10869	C	ARG	1143	4.507	109.327	64.618	1.00	0.00	C
ATOM	10870	O	ARG	1143	3.397	109.853	64.561	1.00	0.00	O
ATOM	10871	N	LEU	1144	5.094	109.019	65.783	1.00	0.00	N
ATOM	10872	HN	LEU	1144	6.078	108.749	65.768	1.00	0.00	H
ATOM	10873	CA	LEU	1144	4.424	109.046	67.044	1.00	0.00	C
ATOM	10874	CB	LEU	1144	5.366	108.711	68.207	1.00	0.00	C
ATOM	10875	CG	LEU	1144	6.179	107.420	67.990	1.00	0.00	C

ATOM	10876	CD1	LEU	1144	6.984	107.062	69.248	1.00	0.00	C
ATOM	10877	CD2	LEU	1144	5.317	106.260	67.464	1.00	0.00	C
ATOM	10878	C	LEU	1144	3.936	110.443	67.263	1.00	0.00	C
ATOM	10879	O	LEU	1144	2.945	110.657	67.957	1.00	0.00	O
ATOM	10880	N	SER	1145	4.691	111.431	66.745	1.00	0.00	N
ATOM	10881	HN	SER	1145	5.537	111.176	66.236	1.00	0.00	H
ATOM	10882	CA	SER	1145	4.366	112.827	66.872	1.00	0.00	C
ATOM	10883	CB	SER	1145	5.521	113.730	66.410	1.00	0.00	C
ATOM	10884	OG	SER	1145	5.824	113.466	65.048	1.00	0.00	O
ATOM	10885	HG	SER	1145	6.538	114.024	64.762	1.00	0.00	H
ATOM	10886	C	SER	1145	3.139	113.236	66.094	1.00	0.00	C
ATOM	10887	O	SER	1145	2.145	113.676	66.667	1.00	0.00	O
ATOM	10888	N	THR	1146	3.180	113.055	64.760	1.00	0.00	N
ATOM	10889	HN	THR	1146	3.988	112.552	64.393	1.00	0.00	H
ATOM	10890	CA	THR	1146	2.201	113.497	63.792	1.00	0.00	C
ATOM	10891	CB	THR	1146	2.676	113.278	62.383	1.00	0.00	C
ATOM	10892	OG1	THR	1146	3.869	114.012	62.159	1.00	0.00	O
ATOM	10893	HG1	THR	1146	4.169	113.874	61.268	1.00	0.00	H
ATOM	10894	CG2	THR	1146	1.592	113.723	61.390	1.00	0.00	C
ATOM	10895	C	THR	1146	0.897	112.773	63.957	1.00	0.00	C
ATOM	10896	O	THR	1146	-0.138	113.196	63.446	1.00	0.00	O
ATOM	10897	N	ILE	1147	0.925	111.624	64.634	1.00	0.00	N
ATOM	10898	HN	ILE	1147	1.806	111.340	65.062	1.00	0.00	H
ATOM	10899	CA	ILE	1147	-0.213	110.763	64.796	1.00	0.00	C
ATOM	10900	CB	ILE	1147	0.100	109.472	65.478	1.00	0.00	C
ATOM	10901	CG1	ILE	1147	-1.083	108.509	65.277	1.00	0.00	C
ATOM	10902	CG2	ILE	1147	0.452	109.768	66.946	1.00	0.00	C
ATOM	10903	CD1	ILE	1147	-0.755	107.048	65.563	1.00	0.00	C
ATOM	10904	C	ILE	1147	-1.352	111.425	65.526	1.00	0.00	C
ATOM	10905	O	ILE	1147	-2.497	110.984	65.418	1.00	0.00	O
ATOM	10906	N	GLN	1148	-1.078	112.489	66.299	1.00	0.00	N
ATOM	10907	HN	GLN	1148	-0.144	112.896	66.244	1.00	0.00	H
ATOM	10908	CA	GLN	1148	-2.025	113.086	67.199	1.00	0.00	C
ATOM	10909	CB	GLN	1148	-1.508	114.418	67.769	1.00	0.00	C
ATOM	10910	CG	GLN	1148	-2.305	114.929	68.968	1.00	0.00	C
ATOM	10911	CD	GLN	1148	-1.678	116.243	69.413	1.00	0.00	C
ATOM	10912	OE1	GLN	1148	-1.939	117.295	68.833	1.00	0.00	O
ATOM	10913	NE2	GLN	1148	-0.824	116.185	70.469	1.00	0.00	N
ATOM	10914	1HE2	GLN	1148	-0.607	115.312	70.950	1.00	0.00	H
ATOM	10915	2HE2	GLN	1148	-0.404	117.065	70.767	1.00	0.00	H
ATOM	10916	C	GLN	1148	-3.347	113.357	66.530	1.00	0.00	C
ATOM	10917	O	GLN	1148	-4.387	113.210	67.169	1.00	0.00	O
ATOM	10918	N	ASN	1149	-3.383	113.778	65.253	1.00	0.00	N
ATOM	10919	HN	ASN	1149	-2.525	113.927	64.722	1.00	0.00	H
ATOM	10920	CA	ASN	1149	-4.674	114.011	64.663	1.00	0.00	C
ATOM	10921	CB	ASN	1149	-4.600	114.936	63.433	1.00	0.00	C
ATOM	10922	CG	ASN	1149	-3.589	114.385	62.429	1.00	0.00	C
ATOM	10923	OD1	ASN	1149	-2.843	113.450	62.712	1.00	0.00	O
ATOM	10924	ND2	ASN	1149	-3.537	115.007	61.222	1.00	0.00	N
ATOM	10925	1HD2	ASN	1149	-2.862	114.639	60.552	1.00	0.00	H
ATOM	10926	2HD2	ASN	1149	-4.156	115.783	60.987	1.00	0.00	H
ATOM	10927	C	ASN	1149	-5.281	112.693	64.265	1.00	0.00	C
ATOM	10928	O	ASN	1149	-5.429	112.396	63.079	1.00	0.00	O
ATOM	10929	N	ALA	1150	-5.715	111.889	65.265	1.00	0.00	N
ATOM	10930	HN	ALA	1150	-5.645	112.207	66.232	1.00	0.00	H
ATOM	10931	CA	ALA	1150	-6.273	110.593	64.984	1.00	0.00	C
ATOM	10932	CB	ALA	1150	-5.381	109.434	65.459	1.00	0.00	C
ATOM	10933	C	ALA	1150	-7.589	110.457	65.685	1.00	0.00	C
ATOM	10934	O	ALA	1150	-7.786	111.004	66.769	1.00	0.00	O
ATOM	10935	N	ASP	1151	-8.555	109.769	65.034	1.00	0.00	N
ATOM	10936	HN	ASP	1151	-8.362	109.389	64.107	1.00	0.00	H
ATOM	10937	CA	ASP	1151	-9.848	109.565	65.627	1.00	0.00	C
ATOM	10938	CB	ASP	1151	-10.856	108.986	64.624	1.00	0.00	C
ATOM	10939	CG	ASP	1151	-11.080	110.052	63.560	1.00	0.00	C
ATOM	10940	OD1	ASP	1151	-10.500	111.161	63.706	1.00	0.00	O
ATOM	10941	OD2	ASP	1151	-11.826	109.772	62.586	1.00	0.00	O
ATOM	10942	C	ASP	1151	-9.751	108.618	66.782	1.00	0.00	C
ATOM	10943	O	ASP	1151	-10.053	108.975	67.920	1.00	0.00	O
ATOM	10944	N	LEU	1152	-9.289	107.377	66.524	1.00	0.00	N
ATOM	10945	HN	LEU	1152	-9.034	107.108	65.574	1.00	0.00	H
ATOM	10946	CA	LEU	1152	-9.161	106.441	67.603	1.00	0.00	C
ATOM	10947	CB	LEU	1152	-10.156	105.267	67.551	1.00	0.00	C
ATOM	10948	CG	LEU	1152	-10.238	104.406	68.836	1.00	0.00	C
ATOM	10949	CD1	LEU	1152	-11.224	103.255	68.640	1.00	0.00	C

ATOM	10950	CD2	LEU	1152	-8.880	103.899	69.343	1.00	0.00	C
ATOM	10951	C	LEU	1152	-7.789	105.879	67.473	1.00	0.00	C
ATOM	10952	O	LEU	1152	-7.479	105.183	66.507	1.00	0.00	O
ATOM	10953	N	ILE	1153	-6.939	106.138	68.479	1.00	0.00	N
ATOM	10954	HN	ILE	1153	-7.265	106.654	69.296	1.00	0.00	H
ATOM	10955	CA	ILE	1153	-5.581	105.697	68.416	1.00	0.00	C
ATOM	10956	CB	ILE	1153	-4.616	106.715	68.969	1.00	0.00	C
ATOM	10957	CG1	ILE	1153	-4.677	108.011	68.142	1.00	0.00	C
ATOM	10958	CG2	ILE	1153	-3.213	106.089	69.015	1.00	0.00	C
ATOM	10959	CD1	ILE	1153	-5.985	108.789	68.288	1.00	0.00	C
ATOM	10960	C	ILE	1153	-5.474	104.457	69.236	1.00	0.00	C
ATOM	10961	O	ILE	1153	-5.713	104.464	70.442	1.00	0.00	O
ATOM	10962	N	VAL	1154	-5.107	103.343	68.573	1.00	0.00	N
ATOM	10963	HN	VAL	1154	-4.901	103.396	67.575	1.00	0.00	H
ATOM	10964	CA	VAL	1154	-5.002	102.086	69.251	1.00	0.00	C
ATOM	10965	CB	VAL	1154	-5.621	100.951	68.488	1.00	0.00	C
ATOM	10966	CG1	VAL	1154	-5.347	99.640	69.242	1.00	0.00	C
ATOM	10967	CG2	VAL	1154	-7.113	101.256	68.281	1.00	0.00	C
ATOM	10968	C	VAL	1154	-3.558	101.748	69.401	1.00	0.00	C
ATOM	10969	O	VAL	1154	-2.782	101.812	68.448	1.00	0.00	O
ATOM	10970	N	VAL	1155	-3.173	101.378	70.636	1.00	0.00	N
ATOM	10971	HN	VAL	1155	-3.857	101.378	71.393	1.00	0.00	H
ATOM	10972	CA	VAL	1155	-1.826	100.984	70.912	1.00	0.00	C
ATOM	10973	CB	VAL	1155	-1.334	101.469	72.246	1.00	0.00	C
ATOM	10974	CG1	VAL	1155	0.103	100.966	72.455	1.00	0.00	C
ATOM	10975	CG2	VAL	1155	-1.476	102.999	72.298	1.00	0.00	C
ATOM	10976	C	VAL	1155	-1.841	99.498	70.963	1.00	0.00	C
ATOM	10977	O	VAL	1155	-2.413	98.889	71.866	1.00	0.00	O
ATOM	10978	N	PHE	1156	-1.179	98.885	69.973	1.00	0.00	N
ATOM	10979	HN	PHE	1156	-0.672	99.457	69.298	1.00	0.00	H
ATOM	10980	CA	PHE	1156	-1.152	97.467	69.822	1.00	0.00	C
ATOM	10981	CB	PHE	1156	-1.392	97.135	68.334	1.00	0.00	C
ATOM	10982	CG	PHE	1156	-1.325	95.691	67.972	1.00	0.00	C
ATOM	10983	CD1	PHE	1156	-2.294	94.800	68.370	1.00	0.00	C
ATOM	10984	CD2	PHE	1156	-0.300	95.249	67.167	1.00	0.00	C
ATOM	10985	CE1	PHE	1156	-2.218	93.478	67.996	1.00	0.00	C
ATOM	10986	CE2	PHE	1156	-0.218	93.931	66.789	1.00	0.00	C
ATOM	10987	CZ	PHE	1156	-1.180	93.045	67.207	1.00	0.00	C
ATOM	10988	C	PHE	1156	0.202	97.006	70.250	1.00	0.00	C
ATOM	10989	O	PHE	1156	1.220	97.581	69.868	1.00	0.00	O
ATOM	10990	N	GLN	1157	0.243	95.982	71.118	1.00	0.00	N
ATOM	10991	HN	GLN	1157	-0.626	95.613	71.505	1.00	0.00	H
ATOM	10992	CA	GLN	1157	1.493	95.404	71.505	1.00	0.00	C
ATOM	10993	CB	GLN	1157	1.572	95.094	73.007	1.00	0.00	C
ATOM	10994	CG	GLN	1157	2.904	94.481	73.430	1.00	0.00	C
ATOM	10995	CD	GLN	1157	3.961	95.564	73.293	1.00	0.00	C
ATOM	10996	OE1	GLN	1157	4.158	96.127	72.217	1.00	0.00	O
ATOM	10997	NE2	GLN	1157	4.655	95.877	74.420	1.00	0.00	N
ATOM	10998	1HE2	GLN	1157	4.492	95.410	75.312	1.00	0.00	H
ATOM	10999	2HE2	GLN	1157	5.365	96.604	74.328	1.00	0.00	H
ATOM	11000	C	GLN	1157	1.460	94.118	70.783	1.00	0.00	C
ATOM	11001	O	GLN	1157	0.645	93.276	71.145	1.00	0.00	O
ATOM	11002	N	ASN	1158	2.387	93.939	69.811	1.00	0.00	N
ATOM	11003	HN	ASN	1158	3.153	94.611	69.770	1.00	0.00	H
ATOM	11004	CA	ASN	1158	2.387	92.882	68.828	1.00	0.00	C
ATOM	11005	CB	ASN	1158	3.784	92.516	68.299	1.00	0.00	C
ATOM	11006	CG	ASN	1158	4.162	93.577	67.275	1.00	0.00	C
ATOM	11007	OD1	ASN	1158	3.454	93.775	66.288	1.00	0.00	O
ATOM	11008	ND2	ASN	1158	5.298	94.285	67.514	1.00	0.00	N
ATOM	11009	1HD2	ASN	1158	5.885	94.121	68.332	1.00	0.00	H
ATOM	11010	2HD2	ASN	1158	5.551	94.996	66.828	1.00	0.00	H
ATOM	11011	C	ASN	1158	1.715	91.640	69.309	1.00	0.00	C
ATOM	11012	O	ASN	1158	2.174	90.945	70.213	1.00	0.00	O
ATOM	11013	N	GLY	1159	0.538	91.393	68.704	1.00	0.00	N
ATOM	11014	HN	GLY	1159	0.214	92.067	68.010	1.00	0.00	H
ATOM	11015	CA	GLY	1159	-0.292	90.258	68.960	1.00	0.00	C
ATOM	11016	C	GLY	1159	-1.477	90.628	69.810	1.00	0.00	C
ATOM	11017	O	GLY	1159	-2.525	89.991	69.699	1.00	0.00	O
ATOM	11018	N	ARG	1160	-1.371	91.677	70.654	1.00	0.00	N
ATOM	11019	HN	ARG	1160	-0.533	92.258	70.640	1.00	0.00	H
ATOM	11020	CA	ARG	1160	-2.440	91.978	71.576	1.00	0.00	C
ATOM	11021	CB	ARG	1160	-2.039	91.615	73.006	1.00	0.00	C
ATOM	11022	CG	ARG	1160	-1.328	90.268	73.092	1.00	0.00	C
ATOM	11023	CD	ARG	1160	-0.298	90.246	74.219	1.00	0.00	C

ATOM	11024	NE	ARG	1160	0.363	88.912	74.213	1.00	0.00	N
ATOM	11025	HE	ARG	1160	0.090	88.204	73.532	1.00	0.00	H
ATOM	11026	CZ	ARG	1160	1.339	88.648	75.130	1.00	0.00	C
ATOM	11027	NH1	ARG	1160	1.658	89.584	76.071	1.00	0.00	N
ATOM	11028	1HH1	ARG	1160	2.387	89.387	76.756	1.00	0.00	H
ATOM	11029	2HH1	ARG	1160	1.165	90.477	76.090	1.00	0.00	H
ATOM	11030	NH2	ARG	1160	1.999	87.453	75.104	1.00	0.00	N
ATOM	11031	1HH2	ARG	1160	2.728	87.256	75.789	1.00	0.00	H
ATOM	11032	2HH2	ARG	1160	1.761	86.754	74.401	1.00	0.00	H
ATOM	11033	C	ARG	1160	-2.636	93.468	71.632	1.00	0.00	C
ATOM	11034	O	ARG	1160	-1.663	94.220	71.627	1.00	0.00	O
ATOM	11035	N	VAL	1161	-3.900	93.942	71.735	1.00	0.00	N
ATOM	11036	HN	VAL	1161	-4.689	93.296	71.753	1.00	0.00	H
ATOM	11037	CA	VAL	1161	-4.125	95.365	71.819	1.00	0.00	C
ATOM	11038	CB	VAL	1161	-5.346	95.809	71.060	1.00	0.00	C
ATOM	11039	CG1	VAL	1161	-6.560	95.005	71.556	1.00	0.00	C
ATOM	11040	CG2	VAL	1161	-5.500	97.330	71.231	1.00	0.00	C
ATOM	11041	C	VAL	1161	-4.281	95.757	73.267	1.00	0.00	C
ATOM	11042	O	VAL	1161	-5.227	95.346	73.938	1.00	0.00	O
ATOM	11043	N	LYS	1162	-3.273	96.491	73.793	1.00	0.00	N
ATOM	11044	HN	LYS	1162	-2.501	96.732	73.171	1.00	0.00	H
ATOM	11045	CA	LYS	1162	-3.192	96.963	75.151	1.00	0.00	C
ATOM	11046	CB	LYS	1162	-1.734	97.198	75.564	1.00	0.00	C
ATOM	11047	CG	LYS	1162	-1.518	97.206	77.076	1.00	0.00	C
ATOM	11048	CD	LYS	1162	-0.050	97.020	77.455	1.00	0.00	C
ATOM	11049	CE	LYS	1162	0.144	96.495	78.876	1.00	0.00	C
ATOM	11050	NZ	LYS	1162	1.581	96.226	79.122	1.00	0.00	N
ATOM	11051	HZ1	LYS	1162	1.711	95.875	80.071	1.00	0.00	H
ATOM	11052	HZ2	LYS	1162	2.162	97.043	78.933	1.00	0.00	H
ATOM	11053	HZ3	LYS	1162	1.978	95.597	78.424	1.00	0.00	H
ATOM	11054	C	LYS	1162	-3.956	98.228	75.465	1.00	0.00	C
ATOM	11055	O	LYS	1162	-4.639	98.306	76.486	1.00	0.00	O
ATOM	11056	N	GLU	1163	-3.860	99.276	74.615	1.00	0.00	N
ATOM	11057	HN	GLU	1163	-3.385	99.182	73.717	1.00	0.00	H
ATOM	11058	CA	GLU	1163	-4.450	100.530	75.016	1.00	0.00	C
ATOM	11059	CB	GLU	1163	-3.408	101.546	75.518	1.00	0.00	C
ATOM	11060	CG	GLU	1163	-2.655	101.073	76.765	1.00	0.00	C
ATOM	11061	CD	GLU	1163	-1.745	102.201	77.227	1.00	0.00	C
ATOM	11062	OE1	GLU	1163	-1.873	103.325	76.671	1.00	0.00	O
ATOM	11063	OE2	GLU	1163	-0.917	101.958	78.145	1.00	0.00	O
ATOM	11064	C	GLU	1163	-5.135	101.139	73.835	1.00	0.00	C
ATOM	11065	O	GLU	1163	-5.029	100.630	72.720	1.00	0.00	O
ATOM	11066	N	HIS	1164	-5.917	102.220	74.065	1.00	0.00	N
ATOM	11067	HN	HIS	1164	-6.070	102.550	75.018	1.00	0.00	H
ATOM	11068	CA	HIS	1164	-6.530	102.900	72.957	1.00	0.00	C
ATOM	11069	ND1	HIS	1164	-9.861	102.394	72.489	1.00	0.00	N
ATOM	11070	HD1	HIS	1164	-9.939	103.278	71.985	1.00	0.00	H
ATOM	11071	CG	HIS	1164	-8.723	101.634	72.640	1.00	0.00	C
ATOM	11072	CB	HIS	1164	-7.393	102.000	72.053	1.00	0.00	C
ATOM	11073	NE2	HIS	1164	-10.441	100.620	73.697	1.00	0.00	N
ATOM	11074	HE2	HIS	1164	-10.988	99.952	74.239	1.00	0.00	H
ATOM	11075	CD2	HIS	1164	-9.095	100.553	73.382	1.00	0.00	C
ATOM	11076	CE1	HIS	1164	-10.859	101.742	73.139	1.00	0.00	C
ATOM	11077	C	HIS	1164	-7.399	104.004	73.475	1.00	0.00	C
ATOM	11078	O	HIS	1164	-7.722	104.052	74.662	1.00	0.00	O
ATOM	11079	N	GLY	1165	-7.791	104.933	72.575	1.00	0.00	N
ATOM	11080	HN	GLY	1165	-7.482	104.846	71.607	1.00	0.00	H
ATOM	11081	CA	GLY	1165	-8.630	106.038	72.942	1.00	0.00	C
ATOM	11082	C	GLY	1165	-8.097	107.263	72.262	1.00	0.00	C
ATOM	11083	O	GLY	1165	-7.440	107.178	71.225	1.00	0.00	O
ATOM	11084	N	THR	1166	-8.395	108.450	72.829	1.00	0.00	N
ATOM	11085	HN	THR	1166	-8.977	108.482	73.666	1.00	0.00	H
ATOM	11086	CA	THR	1166	-7.897	109.666	72.260	1.00	0.00	C
ATOM	11087	CB	THR	1166	-8.828	110.834	72.439	1.00	0.00	C
ATOM	11088	OG1	THR	1166	-8.273	111.997	71.842	1.00	0.00	O
ATOM	11089	HG1	THR	1166	-8.861	112.735	71.955	1.00	0.00	H
ATOM	11090	CG2	THR	1166	-9.121	111.039	73.933	1.00	0.00	C
ATOM	11091	C	THR	1166	-6.548	109.954	72.859	1.00	0.00	C
ATOM	11092	O	THR	1166	-6.163	109.364	73.869	1.00	0.00	O
ATOM	11093	N	HIS	1167	-5.796	110.889	72.241	1.00	0.00	N
ATOM	11094	HN	HIS	1167	-6.216	111.445	71.496	1.00	0.00	H
ATOM	11095	CA	HIS	1167	-4.419	111.129	72.597	1.00	0.00	C
ATOM	11096	ND1	HIS	1167	-1.818	112.943	73.201	1.00	0.00	N
ATOM	11097	HD1	HIS	1167	-2.340	113.204	74.038	1.00	0.00	H

ATOM	11098	CG	HIS	1167	-2.344	112.472	72.019	1.00	0.00	C
ATOM	11099	CB	HIS	1167	-3.811	112.279	71.778	1.00	0.00	C
ATOM	11100	NE2	HIS	1167	-0.098	112.589	71.838	1.00	0.00	N
ATOM	11101	HE2	HIS	1167	0.850	112.532	71.467	1.00	0.00	H
ATOM	11102	CD2	HIS	1167	-1.279	112.261	71.197	1.00	0.00	C
ATOM	11103	CE1	HIS	1167	-0.473	112.993	73.039	1.00	0.00	C
ATOM	11104	C	HIS	1167	-4.256	111.494	74.040	1.00	0.00	C
ATOM	11105	O	HIS	1167	-3.548	110.813	74.777	1.00	0.00	O
ATOM	11106	N	GLN	1168	-4.936	112.558	74.497	1.00	0.00	N
ATOM	11107	HN	GLN	1168	-5.579	113.046	73.874	1.00	0.00	H
ATOM	11108	CA	GLN	1168	-4.775	113.020	75.843	1.00	0.00	C
ATOM	11109	CB	GLN	1168	-5.565	114.305	76.156	1.00	0.00	C
ATOM	11110	CG	GLN	1168	-7.090	114.160	76.110	1.00	0.00	C
ATOM	11111	CD	GLN	1168	-7.547	114.171	74.660	1.00	0.00	C
ATOM	11112	OE1	GLN	1168	-7.408	113.179	73.950	1.00	0.00	O
ATOM	11113	NE2	GLN	1168	-8.120	115.318	74.206	1.00	0.00	N
ATOM	11114	1HE2	GLN	1168	-8.427	115.325	73.233	1.00	0.00	H
ATOM	11115	2HE2	GLN	1168	-8.235	116.142	74.796	1.00	0.00	H
ATOM	11116	C	GLN	1168	-5.258	111.947	76.752	1.00	0.00	C
ATOM	11117	O	GLN	1168	-4.707	111.741	77.833	1.00	0.00	O
ATOM	11118	N	GLN	1169	-6.323	111.241	76.334	1.00	0.00	N
ATOM	11119	HN	GLN	1169	-6.762	111.451	75.438	1.00	0.00	H
ATOM	11120	CA	GLN	1169	-6.833	110.192	77.161	1.00	0.00	C
ATOM	11121	CB	GLN	1169	-8.076	109.488	76.593	1.00	0.00	C
ATOM	11122	CG	GLN	1169	-9.383	110.259	76.766	1.00	0.00	C
ATOM	11123	CD	GLN	1169	-10.484	109.358	76.225	1.00	0.00	C
ATOM	11124	OE1	GLN	1169	-10.358	108.795	75.139	1.00	0.00	O
ATOM	11125	NE2	GLN	1169	-11.584	109.196	77.009	1.00	0.00	N
ATOM	11126	1HE2	GLN	1169	-11.689	109.663	77.910	1.00	0.00	H
ATOM	11127	2HE2	GLN	1169	-12.322	108.592	76.646	1.00	0.00	H
ATOM	11128	C	GLN	1169	-5.773	109.154	77.299	1.00	0.00	C
ATOM	11129	O	GLN	1169	-5.591	108.589	78.375	1.00	0.00	O
ATOM	11130	N	LEU	1170	-5.046	108.871	76.201	1.00	0.00	N
ATOM	11131	HN	LEU	1170	-5.230	109.375	75.334	1.00	0.00	H
ATOM	11132	CA	LEU	1170	-4.014	107.870	76.232	1.00	0.00	C
ATOM	11133	CB	LEU	1170	-3.341	107.667	74.861	1.00	0.00	C
ATOM	11134	CG	LEU	1170	-4.216	106.989	73.793	1.00	0.00	C
ATOM	11135	CD1	LEU	1170	-3.450	106.840	72.469	1.00	0.00	C
ATOM	11136	CD2	LEU	1170	-4.765	105.642	74.299	1.00	0.00	C
ATOM	11137	C	LEU	1170	-2.933	108.300	77.171	1.00	0.00	C
ATOM	11138	O	LEU	1170	-2.470	107.513	77.997	1.00	0.00	O
ATOM	11139	N	LEU	1171	-2.510	109.572	77.073	1.00	0.00	N
ATOM	11140	HN	LEU	1171	-2.952	110.194	76.396	1.00	0.00	H
ATOM	11141	CA	LEU	1171	-1.452	110.073	77.898	1.00	0.00	C
ATOM	11142	CB	LEU	1171	-1.071	111.521	77.554	1.00	0.00	C
ATOM	11143	CG	LEU	1171	0.195	111.992	78.281	1.00	0.00	C
ATOM	11144	CD1	LEU	1171	1.406	111.144	77.862	1.00	0.00	C
ATOM	11145	CD2	LEU	1171	0.436	113.495	78.072	1.00	0.00	C
ATOM	11146	C	LEU	1171	-1.955	110.029	79.297	1.00	0.00	C
ATOM	11147	O	LEU	1171	-1.206	109.763	80.237	1.00	0.00	O
ATOM	11148	N	ALA	1172	-3.268	110.274	79.458	1.00	0.00	N
ATOM	11149	HN	ALA	1172	-3.850	110.473	78.644	1.00	0.00	H
ATOM	11150	CA	ALA	1172	-3.852	110.257	80.760	1.00	0.00	C
ATOM	11151	CB	ALA	1172	-5.376	110.456	80.736	1.00	0.00	C
ATOM	11152	C	ALA	1172	-3.580	108.900	81.305	1.00	0.00	C
ATOM	11153	O	ALA	1172	-3.199	108.762	82.467	1.00	0.00	O
ATOM	11154	N	GLN	1173	-3.750	107.849	80.476	1.00	0.00	N
ATOM	11155	HN	GLN	1173	-4.115	107.960	79.530	1.00	0.00	H
ATOM	11156	CA	GLN	1173	-3.388	106.572	81.004	1.00	0.00	C
ATOM	11157	CB	GLN	1173	-4.047	105.354	80.322	1.00	0.00	C
ATOM	11158	CG	GLN	1173	-5.477	105.056	80.796	1.00	0.00	C
ATOM	11159	CD	GLN	1173	-6.449	105.991	80.094	1.00	0.00	C
ATOM	11160	OE1	GLN	1173	-7.018	106.893	80.707	1.00	0.00	O
ATOM	11161	NE2	GLN	1173	-6.649	105.769	78.768	1.00	0.00	N
ATOM	11162	1HE2	GLN	1173	-7.301	106.396	78.297	1.00	0.00	H
ATOM	11163	2HE2	GLN	1173	-6.177	105.021	78.260	1.00	0.00	H
ATOM	11164	C	GLN	1173	-1.911	106.472	80.852	1.00	0.00	C
ATOM	11165	O	GLN	1173	-1.398	105.837	79.933	1.00	0.00	O
ATOM	11166	N	LYS	1174	-1.182	107.093	81.797	1.00	0.00	N
ATOM	11167	HN	LYS	1174	-1.645	107.579	82.565	1.00	0.00	H
ATOM	11168	CA	LYS	1174	0.244	107.068	81.720	1.00	0.00	C
ATOM	11169	CB	LYS	1174	0.944	107.804	82.876	1.00	0.00	C
ATOM	11170	CG	LYS	1174	0.774	109.322	82.818	1.00	0.00	C
ATOM	11171	CD	LYS	1174	-0.670	109.786	83.016	1.00	0.00	C

ATOM	11172	CE	LYS	1174	-0.849	111.289	82.804	1.00	0.00	C
ATOM	11173	NZ	LYS	1174	-2.272	111.655	82.957	1.00	0.00	N
ATOM	11174	HZ1	LYS	1174	-2.391	112.658	82.816	1.00	0.00	H
ATOM	11175	HZ2	LYS	1174	-2.652	111.347	83.852	1.00	0.00	H
ATOM	11176	HZ3	LYS	1174	-2.876	111.108	82.343	1.00	0.00	H
ATOM	11177	C	LYS	1174	0.635	105.636	81.774	1.00	0.00	C
ATOM	11178	O	LYS	1174	0.117	104.869	82.585	1.00	0.00	O
ATOM	11179	N	GLY	1175	1.566	105.239	80.889	1.00	0.00	N
ATOM	11180	HN	GLY	1175	1.995	105.913	80.254	1.00	0.00	H
ATOM	11181	CA	GLY	1175	1.947	103.866	80.848	1.00	0.00	C
ATOM	11182	C	GLY	1175	2.620	103.602	79.543	1.00	0.00	C
ATOM	11183	O	GLY	1175	3.612	104.244	79.196	1.00	0.00	O
ATOM	11184	N	ILE	1176	2.097	102.621	78.784	1.00	0.00	N
ATOM	11185	HN	ILE	1176	1.221	102.170	79.049	1.00	0.00	H
ATOM	11186	CA	ILE	1176	2.792	102.224	77.600	1.00	0.00	C
ATOM	11187	CB	ILE	1176	2.237	100.946	77.006	1.00	0.00	C
ATOM	11188	CG1	ILE	1176	3.319	100.291	76.152	1.00	0.00	C
ATOM	11189	CG2	ILE	1176	0.921	101.193	76.255	1.00	0.00	C
ATOM	11190	CD1	ILE	1176	4.478	99.808	77.015	1.00	0.00	C
ATOM	11191	C	ILE	1176	2.837	103.328	76.573	1.00	0.00	C
ATOM	11192	O	ILE	1176	3.919	103.770	76.193	1.00	0.00	O
ATOM	11193	N	TYR	1177	1.680	103.896	76.182	1.00	0.00	N
ATOM	11194	HN	TYR	1177	0.811	103.597	76.625	1.00	0.00	H
ATOM	11195	CA	TYR	1177	1.625	104.909	75.163	1.00	0.00	C
ATOM	11196	CB	TYR	1177	0.186	105.401	74.916	1.00	0.00	C
ATOM	11197	CG	TYR	1177	0.239	106.537	73.957	1.00	0.00	C
ATOM	11198	CD1	TYR	1177	0.374	106.318	72.605	1.00	0.00	C
ATOM	11199	CD2	TYR	1177	0.144	107.830	74.418	1.00	0.00	C
ATOM	11200	CE1	TYR	1177	0.421	107.376	71.727	1.00	0.00	C
ATOM	11201	CE2	TYR	1177	0.191	108.891	73.546	1.00	0.00	C
ATOM	11202	CZ	TYR	1177	0.330	108.664	72.198	1.00	0.00	C
ATOM	11203	OH	TYR	1177	0.378	109.752	71.303	1.00	0.00	O
ATOM	11204	HH	TYR	1177	0.315	110.642	71.629	1.00	0.00	H
ATOM	11205	C	TYR	1177	2.445	106.062	75.638	1.00	0.00	C
ATOM	11206	O	TYR	1177	3.104	106.745	74.857	1.00	0.00	O
ATOM	11207	N	PHE	1178	2.397	106.326	76.951	1.00	0.00	N
ATOM	11208	HN	PHE	1178	1.820	105.743	77.558	1.00	0.00	H
ATOM	11209	CA	PHE	1178	3.140	107.411	77.519	1.00	0.00	C
ATOM	11210	CB	PHE	1178	2.944	107.493	79.047	1.00	0.00	C
ATOM	11211	CG	PHE	1178	3.653	108.694	79.584	1.00	0.00	C
ATOM	11212	CD1	PHE	1178	5.023	108.715	79.719	1.00	0.00	C
ATOM	11213	CD2	PHE	1178	2.937	109.796	79.987	1.00	0.00	C
ATOM	11214	CE1	PHE	1178	5.671	109.819	80.216	1.00	0.00	C
ATOM	11215	CE2	PHE	1178	3.576	110.905	80.487	1.00	0.00	C
ATOM	11216	CZ	PHE	1178	4.946	110.921	80.598	1.00	0.00	C
ATOM	11217	C	PHE	1178	4.593	107.143	77.281	1.00	0.00	C
ATOM	11218	O	PHE	1178	5.329	107.994	76.784	1.00	0.00	O
ATOM	11219	N	SER	1179	5.044	105.921	77.601	1.00	0.00	N
ATOM	11220	HN	SER	1179	4.397	105.200	77.921	1.00	0.00	H
ATOM	11221	CA	SER	1179	6.438	105.639	77.490	1.00	0.00	C
ATOM	11222	CB	SER	1179	6.785	104.204	77.912	1.00	0.00	C
ATOM	11223	OG	SER	1179	8.181	103.981	77.781	1.00	0.00	O
ATOM	11224	HG	SER	1179	8.396	103.093	78.042	1.00	0.00	H
ATOM	11225	C	SER	1179	6.828	105.816	76.062	1.00	0.00	C
ATOM	11226	O	SER	1179	7.962	106.182	75.777	1.00	0.00	O
ATOM	11227	N	MET	1180	5.914	105.562	75.109	1.00	0.00	N
ATOM	11228	HN	MET	1180	4.971	105.257	75.350	1.00	0.00	H
ATOM	11229	CA	MET	1180	6.312	105.735	73.738	1.00	0.00	C
ATOM	11230	CB	MET	1180	5.305	105.222	72.692	1.00	0.00	C
ATOM	11231	CG	MET	1180	4.141	106.162	72.393	1.00	0.00	C
ATOM	11232	SD	MET	1180	3.129	105.667	70.969	1.00	0.00	S
ATOM	11233	CE	MET	1180	2.497	104.159	71.758	1.00	0.00	C
ATOM	11234	C	MET	1180	6.562	107.183	73.463	1.00	0.00	C
ATOM	11235	O	MET	1180	7.510	107.532	72.760	1.00	0.00	O
ATOM	11236	N	VAL	1181	5.712	108.084	73.991	1.00	0.00	N
ATOM	11237	HN	VAL	1181	4.905	107.803	74.547	1.00	0.00	H
ATOM	11238	CA	VAL	1181	6.006	109.456	73.727	1.00	0.00	C
ATOM	11239	CB	VAL	1181	4.906	110.433	74.056	1.00	0.00	C
ATOM	11240	CG1	VAL	1181	3.808	110.256	72.994	1.00	0.00	C
ATOM	11241	CG2	VAL	1181	4.381	110.194	75.475	1.00	0.00	C
ATOM	11242	C	VAL	1181	7.286	109.749	74.432	1.00	0.00	C
ATOM	11243	O	VAL	1181	8.087	110.571	73.994	1.00	0.00	O
ATOM	11244	N	SER	1182	7.508	109.045	75.552	1.00	0.00	N
ATOM	11245	HN	SER	1182	6.797	108.382	75.861	1.00	0.00	H



ATOM	11246	CA	SER	1182	8.700	109.183	76.333	1.00	0.00	C
ATOM	11247	CB	SER	1182	8.640	108.280	77.575	1.00	0.00	C
ATOM	11248	OG	SER	1182	9.821	108.418	78.342	1.00	0.00	O
ATOM	11249	HG	SER	1182	9.784	107.860	79.110	1.00	0.00	H
ATOM	11250	C	SER	1182	9.917	108.789	75.510	1.00	0.00	C
ATOM	11251	O	SER	1182	10.919	109.504	75.507	1.00	0.00	O
ATOM	11252	N	VAL	1183	9.856	107.649	74.776	1.00	0.00	N
ATOM	11253	HN	VAL	1183	8.980	107.127	74.805	1.00	0.00	H
ATOM	11254	CA	VAL	1183	10.920	107.102	73.954	1.00	0.00	C
ATOM	11255	CB	VAL	1183	10.479	105.860	73.247	1.00	0.00	C
ATOM	11256	CG1	VAL	1183	11.586	105.439	72.273	1.00	0.00	C
ATOM	11257	CG2	VAL	1183	10.122	104.793	74.296	1.00	0.00	C
ATOM	11258	C	VAL	1183	11.200	108.148	72.916	1.00	0.00	C
ATOM	11259	O	VAL	1183	12.356	108.431	72.606	1.00	0.00	O
ATOM	11260	N	GLN	1184	10.131	108.764	72.366	1.00	0.00	N
ATOM	11261	HN	GLN	1184	9.197	108.530	72.704	1.00	0.00	H
ATOM	11262	CA	GLN	1184	10.269	109.741	71.318	1.00	0.00	C
ATOM	11263	CB	GLN	1184	8.940	110.185	70.681	1.00	0.00	C
ATOM	11264	CG	GLN	1184	9.153	111.212	69.563	1.00	0.00	C
ATOM	11265	CD	GLN	1184	7.802	111.575	68.967	1.00	0.00	C
ATOM	11266	OE1	GLN	1184	6.928	112.113	69.645	1.00	0.00	O
ATOM	11267	NE2	GLN	1184	7.624	111.269	67.654	1.00	0.00	N
ATOM	11268	1HE2	GLN	1184	6.718	111.512	67.254	1.00	0.00	H
ATOM	11269	2HE2	GLN	1184	8.349	110.823	67.092	1.00	0.00	H
ATOM	11270	C	GLN	1184	10.959	110.972	71.804	1.00	0.00	C
ATOM	11271	O	GLN	1184	11.784	111.535	71.089	1.00	0.00	O
ATOM	11272	N	ALA	1185	10.638	111.423	73.032	1.00	0.00	N
ATOM	11273	HN	ALA	1185	9.968	110.902	73.599	1.00	0.00	H
ATOM	11274	CA	ALA	1185	11.223	112.624	73.556	1.00	0.00	C
ATOM	11275	CB	ALA	1185	12.731	112.500	73.839	1.00	0.00	C
ATOM	11276	C	ALA	1185	11.032	113.738	72.534	1.00	0.00	C
ATOM	11277	O	ALA	1185	12.047	114.401	72.197	1.00	0.00	O
ATOM	11278	OXT	ALA	1185	9.874	113.942	72.078	1.00	0.00	O
HETATM	11279	O	LIG	1	14.613	75.962	40.175	1.00	0.00	O
HETATM	11280	O	LIG	1	11.782	79.553	40.176	1.00	0.00	O
HETATM	11281	N	LIG	1	11.841	77.607	41.466	1.00	0.00	N
HETATM	11282	N	LIG	1	13.378	77.891	39.891	1.00	0.00	N
HETATM	11283	C	LIG	1	12.635	76.384	41.587	1.00	0.00	C
HETATM	11284	C	LIG	1	13.671	76.684	40.477	1.00	0.00	C
HETATM	11285	C	LIG	1	12.281	78.475	40.470	1.00	0.00	C
HETATM	11286	H	LIG	1	11.028	77.806	42.042	1.00	0.00	H
HETATM	11287	H	LIG	1	13.913	78.303	39.136	1.00	0.00	H
HETATM	11288	C	LIG	1	13.373	76.266	42.927	1.00	0.00	C
HETATM	11289	C	LIG	1	13.494	77.381	43.756	1.00	0.00	C
HETATM	11290	C	LIG	1	14.164	77.275	44.975	1.00	0.00	C
HETATM	11291	C	LIG	1	14.713	76.053	45.364	1.00	0.00	C
HETATM	11292	C	LIG	1	14.591	74.937	44.535	1.00	0.00	C
HETATM	11293	C	LIG	1	13.921	75.045	43.317	1.00	0.00	C
HETATM	11294	C	LIG	1	11.719	75.191	41.297	1.00	0.00	C
HETATM	11295	C	LIG	1	10.352	75.272	41.572	1.00	0.00	C
HETATM	11296	C	LIG	1	9.517	74.186	41.307	1.00	0.00	C
HETATM	11297	C	LIG	1	10.047	73.015	40.766	1.00	0.00	C
HETATM	11298	C	LIG	1	11.411	72.930	40.490	1.00	0.00	C
HETATM	11299	C	LIG	1	12.245	74.016	40.754	1.00	0.00	C
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