

REMARK	4 XXXX COMPLIES WITH FORMAT V. 2.0									
COMPND	W:\zeph\SINDHU\DLG FILES\mutant4drug4\complex44.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	O
ATOM	1035	N	ILE	111	47.338	68.161	23.656	1.00	0.00	N
ATOM	1036	HN	ILE	111	47.000	67.269	23.294	1.00	0.00	H
ATOM	1037	CA	ILE	111	46.687	68.775	24.771	1.00	0.00	C
ATOM	1038	CB	ILE	111	45.308	68.268	25.058	1.00	0.00	C
ATOM	1039	CG1	ILE	111	44.392	68.696	23.901	1.00	0.00	C
ATOM	1040	CG2	ILE	111	44.859	68.803	26.431	1.00	0.00	C
ATOM	1041	CD1	ILE	111	42.953	68.241	24.065	1.00	0.00	C
ATOM	1042	C	ILE	111	47.503	68.726	26.018	1.00	0.00	C
ATOM	1043	O	ILE	111	47.512	69.696	26.765	1.00	0.00	O
ATOM	1044	N	HIS	112	48.224	67.620	26.277	1.00	0.00	N
ATOM	1045	HN	HIS	112	48.252	66.871	25.585	1.00	0.00	H
ATOM	1046	CA	HIS	112	48.957	67.466	27.505	1.00	0.00	C
ATOM	1047	ND1	HIS	112	49.565	65.190	29.780	1.00	0.00	N
ATOM	1048	HD1	HIS	112	48.556	65.041	29.749	1.00	0.00	H
ATOM	1049	CG	HIS	112	50.345	65.743	28.786	1.00	0.00	C
ATOM	1050	CB	HIS	112	49.810	66.186	27.462	1.00	0.00	C
ATOM	1051	NE2	HIS	112	51.653	65.199	30.543	1.00	0.00	N
ATOM	1052	HE2	HIS	112	52.467	65.072	31.145	1.00	0.00	H
ATOM	1053	CD2	HIS	112	51.617	65.741	29.270	1.00	0.00	C
ATOM	1054	CE1	HIS	112	50.396	64.882	30.805	1.00	0.00	C
ATOM	1055	C	HIS	112	49.859	68.655	27.633	1.00	0.00	C
ATOM	1056	O	HIS	112	49.926	69.294	28.683	1.00	0.00	O
ATOM	1057	N	LYS	113	50.525	69.023	26.526	1.00	0.00	N
ATOM	1058	HN	LYS	113	50.428	68.482	25.667	1.00	0.00	H
ATOM	1059	CA	LYS	113	51.371	70.176	26.557	1.00	0.00	C
ATOM	1060	CB	LYS	113	52.058	70.469	25.212	1.00	0.00	C
ATOM	1061	CG	LYS	113	53.235	69.556	24.867	1.00	0.00	C
ATOM	1062	CD	LYS	113	52.850	68.114	24.540	1.00	0.00	C
ATOM	1063	CE	LYS	113	54.039	67.279	24.055	1.00	0.00	C
ATOM	1064	NZ	LYS	113	53.613	65.886	23.808	1.00	0.00	N
ATOM	1065	HZ1	LYS	113	54.405	65.330	23.485	1.00	0.00	H
ATOM	1066	HZ2	LYS	113	52.824	65.837	23.164	1.00	0.00	H
ATOM	1067	HZ3	LYS	113	53.165	65.473	24.626	1.00	0.00	H
ATOM	1068	C	LYS	113	50.532	71.379	26.849	1.00	0.00	C
ATOM	1069	O	LYS	113	50.885	72.208	27.690	1.00	0.00	O
ATOM	1070	N	ILE	114	49.370	71.491	26.181	1.00	0.00	N
ATOM	1071	HN	ILE	114	49.034	70.736	25.583	1.00	0.00	H
ATOM	1072	CA	ILE	114	48.618	72.700	26.334	1.00	0.00	C
ATOM	1073	CB	ILE	114	47.390	72.779	25.437	1.00	0.00	C
ATOM	1074	CG1	ILE	114	47.018	74.248	25.224	1.00	0.00	C
ATOM	1075	CG2	ILE	114	46.208	71.971	25.997	1.00	0.00	C
ATOM	1076	CD1	ILE	114	48.023	74.985	24.345	1.00	0.00	C
ATOM	1077	C	ILE	114	48.216	72.823	27.773	1.00	0.00	C
ATOM	1078	O	ILE	114	48.461	73.837	28.419	1.00	0.00	O
ATOM	1079	N	ARG	115	47.717	71.723	28.349	1.00	0.00	N
ATOM	1080	HN	ARG	115	47.758	70.847	27.829	1.00	0.00	H
ATOM	1081	CA	ARG	115	47.133	71.706	29.644	1.00	0.00	C
ATOM	1082	CB	ARG	115	46.751	70.274	30.064	1.00	0.00	C
ATOM	1083	CG	ARG	115	45.895	70.177	31.329	1.00	0.00	C
ATOM	1084	CD	ARG	115	44.506	70.797	31.172	1.00	0.00	C
ATOM	1085	NE	ARG	115	43.924	70.301	29.892	1.00	0.00	N
ATOM	1086	HE	ARG	115	44.067	70.834	29.034	1.00	0.00	H
ATOM	1087	CZ	ARG	115	43.202	69.143	29.854	1.00	0.00	C
ATOM	1088	NH1	ARG	115	43.043	68.396	30.985	1.00	0.00	N
ATOM	1089	1HH1	ARG	115	43.474	68.696	31.859	1.00	0.00	H
ATOM	1090	2HH1	ARG	115	42.504	67.531	30.957	1.00	0.00	H
ATOM	1091	NH2	ARG	115	42.625	68.741	28.684	1.00	0.00	N
ATOM	1092	1HH2	ARG	115	42.744	69.299	27.839	1.00	0.00	H
ATOM	1093	2HH2	ARG	115	42.086	67.876	28.656	1.00	0.00	H
ATOM	1094	C	ARG	115	48.088	72.263	30.656	1.00	0.00	C
ATOM	1095	O	ARG	115	47.726	73.173	31.399	1.00	0.00	O
ATOM	1096	N	LYS	116	49.346	71.782	30.681	1.00	0.00	N
ATOM	1097	HN	LYS	116	49.644	71.110	29.974	1.00	0.00	H
ATOM	1098	CA	LYS	116	50.275	72.209	31.699	1.00	0.00	C
ATOM	1099	CB	LYS	116	51.652	71.532	31.588	1.00	0.00	C
ATOM	1100	CG	LYS	116	51.653	70.027	31.842	1.00	0.00	C
ATOM	1101	CD	LYS	116	52.980	69.368	31.459	1.00	0.00	C
ATOM	1102	CE	LYS	116	53.011	67.859	31.696	1.00	0.00	C
ATOM	1103	NZ	LYS	116	54.314	67.310	31.256	1.00	0.00	N
ATOM	1104	HZ1	LYS	116	54.335	66.303	31.414	1.00	0.00	H
ATOM	1105	HZ2	LYS	116	55.100	67.785	31.700	1.00	0.00	H
ATOM	1106	HZ3	LYS	116	54.525	67.551	30.287	1.00	0.00	H
ATOM	1107	C	LYS	116	50.544	73.669	31.585	1.00	0.00	C

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	16.020	58.753	20.952	1.00	0.00	O
HETATM	11280	O	LIG	1	12.832	62.233	20.111	1.00	0.00	O
HETATM	11281	O	LIG	1	17.260	62.730	19.044	1.00	0.00	O
HETATM	11282	N	LIG	1	16.600	60.735	19.967	1.00	0.00	N
HETATM	11283	N	LIG	1	15.041	62.435	19.554	1.00	0.00	N
HETATM	11284	C	LIG	1	14.208	60.258	20.385	1.00	0.00	C
HETATM	11285	C	LIG	1	15.678	59.839	20.479	1.00	0.00	C
HETATM	11286	C	LIG	1	13.951	61.724	20.023	1.00	0.00	C
HETATM	11287	C	LIG	1	16.360	62.012	19.485	1.00	0.00	C
HETATM	11288	H	LIG	1	17.571	60.433	19.974	1.00	0.00	H
HETATM	11289	H	LIG	1	14.860	63.389	19.255	1.00	0.00	H
HETATM	11290	C	LIG	1	13.577	60.012	21.761	1.00	0.00	C
HETATM	11291	C	LIG	1	14.492	60.476	22.873	1.00	0.00	C
HETATM	11292	C	LIG	1	13.521	59.384	19.374	1.00	0.00	C
HETATM	11293	C	LIG	1	12.165	59.113	19.510	1.00	0.00	C
HETATM	11294	C	LIG	1	11.527	58.302	18.572	1.00	0.00	C
HETATM	11295	C	LIG	1	12.248	57.768	17.505	1.00	0.00	C
HETATM	11296	C	LIG	1	13.610	58.046	17.376	1.00	0.00	C
HETATM	11297	C	LIG	1	14.248	58.857	18.315	1.00	0.00	C
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