

EXPDTA THEORETICAL MODEL, MODELLER 9.15 2016/04/13 10:53:27

REMARK 6 MODELLER OBJECTIVE FUNCTION: -131069.2812

REMARK 6 MODELLER BEST TEMPLATE % SEQ ID: 89.086

REMARK 6 SEQUENCE: human

REMARK 6 DOPE score: -131069.28125

REMARK 6 GA341 score: 1.00000

REMARK 6 TEMPLATE: 3G5UA

ATOM	1	N	VAL	1	49.712	81.022	10.054	1.00	30.57	N
ATOM	2	CA	VAL	1	50.120	82.096	10.978	1.00	30.57	C
ATOM	3	CB	VAL	1	49.479	83.394	10.585	1.00	30.57	C
ATOM	4	CG1	VAL	1	49.977	83.790	9.185	1.00	30.57	C
ATOM	5	CG2	VAL	1	47.954	83.238	10.683	1.00	30.57	C
ATOM	6	C	VAL	1	49.707	81.765	12.370	1.00	30.57	C
ATOM	7	O	VAL	1	49.519	80.607	12.717	1.00	30.57	O
ATOM	8	N	SER	2	49.542	82.781	13.224	1.00	83.05	N
ATOM	9	CA	SER	2	49.195	82.489	14.581	1.00	83.05	C
ATOM	10	CB	SER	2	49.001	83.757	15.427	1.00	83.05	C
ATOM	11	OG	SER	2	50.228	84.463	15.526	1.00	83.05	O
ATOM	12	C	SER	2	47.895	81.756	14.589	1.00	83.05	C
ATOM	13	O	SER	2	47.724	80.789	15.331	1.00	83.05	O
ATOM	14	N	VAL	3	46.938	82.182	13.745	1.00	80.44	N
ATOM	15	CA	VAL	3	45.668	81.534	13.818	1.00	80.44	C
ATOM	16	CB	VAL	3	44.659	82.157	12.890	1.00	80.44	C
ATOM	17	CG1	VAL	3	44.345	83.565	13.419	1.00	80.44	C
ATOM	18	CG2	VAL	3	45.221	82.194	11.459	1.00	80.44	C
ATOM	19	C	VAL	3	45.778	80.066	13.536	1.00	80.44	C
ATOM	20	O	VAL	3	45.631	79.277	14.461	1.00	80.44	O
ATOM	21	N	PHE	4	46.055	79.637	12.283	1.00	77.48	N
ATOM	22	CA	PHE	4	46.110	78.221	12.020	1.00	77.48	C
ATOM	23	CB	PHE	4	45.854	77.835	10.548	1.00	77.48	C
ATOM	24	CG	PHE	4	46.948	78.302	9.650	1.00	77.48	C
ATOM	25	CD1	PHE	4	48.076	77.535	9.472	1.00	77.48	C
ATOM	26	CD2	PHE	4	46.834	79.491	8.966	1.00	77.48	C
ATOM	27	CE1	PHE	4	49.085	77.951	8.636	1.00	77.48	C
ATOM	28	CE2	PHE	4	47.838	79.913	8.128	1.00	77.48	C
ATOM	29	CZ	PHE	4	48.966	79.143	7.963	1.00	77.48	C
ATOM	30	C	PHE	4	47.400	77.611	12.477	1.00	77.48	C
ATOM	31	O	PHE	4	47.418	76.552	13.102	1.00	77.48	O
ATOM	32	N	SER	5	48.525	78.272	12.161	1.00	95.22	N
ATOM	33	CA	SER	5	49.820	77.734	12.463	1.00	95.22	C
ATOM	34	CB	SER	5	50.968	78.489	11.770	1.00	95.22	C
ATOM	35	OG	SER	5	52.215	77.903	12.112	1.00	95.22	O
ATOM	36	C	SER	5	50.093	77.716	13.933	1.00	95.22	C
ATOM	37	O	SER	5	50.481	76.679	14.459	1.00	95.22	O
ATOM	38	N	MET	6	49.882	78.837	14.657	1.00	79.48	N
ATOM	39	CA	MET	6	50.186	78.822	16.064	1.00	79.48	C
ATOM	40	CB	MET	6	49.955	80.158	16.789	1.00	79.48	C
ATOM	41	CG	MET	6	50.880	80.336	17.995	1.00	79.48	C
ATOM	42	SD	MET	6	50.768	79.047	19.269	1.00	79.48	S
ATOM	43	CE	MET	6	52.388	79.432	19.995	1.00	79.48	C
ATOM	44	C	MET	6	49.249	77.813	16.614	1.00	79.48	C
ATOM	45	O	MET	6	49.570	77.075	17.545	1.00	79.48	O
ATOM	46	N	PHE	7	48.061	77.742	15.987	1.00	139.17	N
ATOM	47	CA	PHE	7	47.071	76.798	16.391	1.00	139.17	C
ATOM	48	CB	PHE	7	45.823	76.771	15.496	1.00	139.17	C
ATOM	49	CG	PHE	7	44.785	75.897	16.116	1.00	139.17	C
ATOM	50	CD1	PHE	7	44.744	74.547	15.853	1.00	139.17	C
ATOM	51	CD2	PHE	7	43.844	76.438	16.962	1.00	139.17	C
ATOM	52	CE1	PHE	7	43.782	73.749	16.427	1.00	139.17	C
ATOM	53	CE2	PHE	7	42.881	75.645	17.539	1.00	139.17	C
ATOM	54	CZ	PHE	7	42.848	74.297	17.272	1.00	139.17	C
ATOM	55	C	PHE	7	47.685	75.447	16.266	1.00	139.17	C
ATOM	56	O	PHE	7	47.512	74.615	17.153	1.00	139.17	O
ATOM	57	N	ARG	8	48.395	75.161	15.154	1.00	167.50	N
ATOM	58	CA	ARG	8	49.000	73.862	15.114	1.00	167.50	C
ATOM	59	CB	ARG	8	48.614	73.003	13.895	1.00	167.50	C
ATOM	60	CG	ARG	8	47.199	72.424	13.986	1.00	167.50	C
ATOM	61	CD	ARG	8	46.956	71.230	13.060	1.00	167.50	C
ATOM	62	NE	ARG	8	47.056	71.712	11.655	1.00	167.50	N
ATOM	63	CZ	ARG	8	47.549	70.885	10.688	1.00	167.50	C
ATOM	64	NH1	ARG	8	47.973	69.629	11.014	1.00	167.50	N
ATOM	65	NH2	ARG	8	47.623	71.313	9.394	1.00	167.50	N
ATOM	66	C	ARG	8	50.479	74.032	15.113	1.00	167.50	C
ATOM	67	O	ARG	8	51.117	74.003	14.062	1.00	167.50	O

ATOM	68	N	TYR	9	51.067	74.156	16.318	1.00127.86	N
ATOM	69	CA	TYR	9	52.477	74.359	16.444	1.00127.86	C
ATOM	70	CB	TYR	9	52.870	75.648	17.195	1.00127.86	C
ATOM	71	CG	TYR	9	52.666	75.462	18.661	1.00127.86	C
ATOM	72	CD1	TYR	9	51.409	75.330	19.201	1.00127.86	C
ATOM	73	CD2	TYR	9	53.753	75.451	19.505	1.00127.86	C
ATOM	74	CE1	TYR	9	51.244	75.170	20.558	1.00127.86	C
ATOM	75	CE2	TYR	9	53.597	75.293	20.862	1.00127.86	C
ATOM	76	CZ	TYR	9	52.338	75.149	21.392	1.00127.86	C
ATOM	77	OH	TYR	9	52.168	74.987	22.783	1.00127.86	O
ATOM	78	C	TYR	9	52.973	73.192	17.247	1.00127.86	C
ATOM	79	O	TYR	9	52.252	72.215	17.434	1.00127.86	O
ATOM	80	N	SER	10	54.247	73.252	17.682	1.00158.25	N
ATOM	81	CA	SER	10	54.895	72.274	18.519	1.00158.25	C
ATOM	82	CB	SER	10	54.525	72.386	20.004	1.00158.25	C
ATOM	83	OG	SER	10	55.268	71.423	20.732	1.00158.25	O
ATOM	84	C	SER	10	54.714	70.833	18.097	1.00158.25	C
ATOM	85	O	SER	10	53.926	70.119	18.715	1.00158.25	O
ATOM	86	N	ASN	11	55.403	70.349	17.025	1.00196.32	N
ATOM	87	CA	ASN	11	55.243	68.938	16.725	1.00196.32	C
ATOM	88	CB	ASN	11	53.994	68.644	15.866	1.00196.32	C
ATOM	89	CG	ASN	11	52.691	68.904	16.607	1.00196.32	C
ATOM	90	OD1	ASN	11	52.432	68.346	17.673	1.00196.32	O
ATOM	91	ND2	ASN	11	51.843	69.785	16.015	1.00196.32	N
ATOM	92	C	ASN	11	56.339	68.407	15.832	1.00196.32	C
ATOM	93	O	ASN	11	56.177	68.449	14.613	1.00196.32	O
ATOM	94	N	TRP	12	57.479	67.898	16.354	1.00116.51	N
ATOM	95	CA	TRP	12	58.391	67.288	15.416	1.00116.51	C
ATOM	96	CB	TRP	12	59.754	66.957	16.041	1.00116.51	C
ATOM	97	CG	TRP	12	60.676	66.234	15.093	1.00116.51	C
ATOM	98	CD2	TRP	12	61.881	65.562	15.490	1.00116.51	C
ATOM	99	CD1	TRP	12	60.553	66.047	13.748	1.00116.51	C
ATOM	100	NE1	TRP	12	61.608	65.300	13.280	1.00116.51	N
ATOM	101	CE2	TRP	12	62.432	64.994	14.342	1.00116.51	C
ATOM	102	CE3	TRP	12	62.474	65.424	16.712	1.00116.51	C
ATOM	103	CZ2	TRP	12	63.592	64.275	14.399	1.00116.51	C
ATOM	104	CZ3	TRP	12	63.646	64.704	16.765	1.00116.51	C
ATOM	105	CH2	TRP	12	64.194	64.141	15.631	1.00116.51	C
ATOM	106	C	TRP	12	57.834	65.983	14.921	1.00116.51	C
ATOM	107	O	TRP	12	57.235	65.885	13.852	1.00116.51	O
ATOM	108	N	LEU	13	57.928	64.959	15.789	1.00 80.11	N
ATOM	109	CA	LEU	13	57.509	63.619	15.502	1.00 80.11	C
ATOM	110	CB	LEU	13	57.848	62.637	16.634	1.00 80.11	C
ATOM	111	CG	LEU	13	59.362	62.496	16.864	1.00 80.11	C
ATOM	112	CD1	LEU	13	59.668	61.435	17.929	1.00 80.11	C
ATOM	113	CD2	LEU	13	60.107	62.253	15.543	1.00 80.11	C
ATOM	114	C	LEU	13	56.034	63.681	15.369	1.00 80.11	C
ATOM	115	O	LEU	13	55.407	62.831	14.740	1.00 80.11	O
ATOM	116	N	ASP	14	55.437	64.668	16.050	1.00 74.00	N
ATOM	117	CA	ASP	14	54.016	64.811	16.008	1.00 74.00	C
ATOM	118	CB	ASP	14	53.505	65.940	16.911	1.00 74.00	C
ATOM	119	CG	ASP	14	53.706	65.554	18.368	1.00 74.00	C
ATOM	120	OD1	ASP	14	53.655	64.332	18.669	1.00 74.00	O
ATOM	121	OD2	ASP	14	53.904	66.480	19.201	1.00 74.00	O
ATOM	122	C	ASP	14	53.580	65.135	14.609	1.00 74.00	C
ATOM	123	O	ASP	14	52.746	64.442	14.027	1.00 74.00	O
ATOM	124	N	LYS	15	54.195	66.161	13.993	1.00105.76	N
ATOM	125	CA	LYS	15	53.763	66.581	12.689	1.00105.76	C
ATOM	126	CB	LYS	15	54.579	67.766	12.138	1.00105.76	C
ATOM	127	CG	LYS	15	56.068	67.467	11.938	1.00105.76	C
ATOM	128	CD	LYS	15	56.805	68.529	11.120	1.00105.76	C
ATOM	129	CE	LYS	15	57.061	69.825	11.889	1.00105.76	C
ATOM	130	NZ	LYS	15	57.776	70.790	11.025	1.00105.76	N
ATOM	131	C	LYS	15	53.903	65.430	11.740	1.00105.76	C
ATOM	132	O	LYS	15	53.059	65.231	10.867	1.00105.76	O
ATOM	133	N	LEU	16	54.983	64.642	11.874	1.00 96.43	N
ATOM	134	CA	LEU	16	55.174	63.523	10.993	1.00 96.43	C
ATOM	135	CB	LEU	16	56.518	62.802	11.190	1.00 96.43	C
ATOM	136	CG	LEU	16	57.729	63.583	10.652	1.00 96.43	C
ATOM	137	CD1	LEU	16	57.922	64.916	11.385	1.00 96.43	C
ATOM	138	CD2	LEU	16	58.992	62.712	10.665	1.00 96.43	C
ATOM	139	C	LEU	16	54.101	62.505	11.192	1.00 96.43	C
ATOM	140	O	LEU	16	53.540	61.994	10.225	1.00 96.43	O
ATOM	141	N	TYR	17	53.762	62.182	12.450	1.00 67.99	N

ATOM	142	CA	TYR	17	52.773	61.161	12.630	1.00	67.99	C
ATOM	143	CB	TYR	17	52.485	60.783	14.090	1.00	67.99	C
ATOM	144	CG	TYR	17	51.625	59.570	13.984	1.00	67.99	C
ATOM	145	CD1	TYR	17	52.204	58.362	13.669	1.00	67.99	C
ATOM	146	CD2	TYR	17	50.264	59.623	14.188	1.00	67.99	C
ATOM	147	CE1	TYR	17	51.445	57.224	13.555	1.00	67.99	C
ATOM	148	CE2	TYR	17	49.498	58.484	14.075	1.00	67.99	C
ATOM	149	CZ	TYR	17	50.089	57.283	13.757	1.00	67.99	C
ATOM	150	OH	TYR	17	49.315	56.111	13.636	1.00	67.99	O
ATOM	151	C	TYR	17	51.507	61.680	12.039	1.00	67.99	C
ATOM	152	O	TYR	17	50.713	60.924	11.479	1.00	67.99	O
ATOM	153	N	MET	18	51.282	63.002	12.165	1.00	130.98	N
ATOM	154	CA	MET	18	50.059	63.553	11.671	1.00	130.98	C
ATOM	155	CB	MET	18	49.960	65.080	11.843	1.00	130.98	C
ATOM	156	CG	MET	18	49.847	65.547	13.293	1.00	130.98	C
ATOM	157	SD	MET	18	49.726	67.353	13.492	1.00	130.98	S
ATOM	158	CE	MET	18	47.985	67.470	12.990	1.00	130.98	C
ATOM	159	C	MET	18	49.922	63.298	10.199	1.00	130.98	C
ATOM	160	O	MET	18	48.924	62.734	9.754	1.00	130.98	O
ATOM	161	N	VAL	19	50.955	63.626	9.404	1.00	101.07	N
ATOM	162	CA	VAL	19	50.830	63.510	7.980	1.00	101.07	C
ATOM	163	CB	VAL	19	52.080	63.907	7.252	1.00	101.07	C
ATOM	164	CG1	VAL	19	52.353	65.393	7.532	1.00	101.07	C
ATOM	165	CG2	VAL	19	53.221	62.972	7.683	1.00	101.07	C
ATOM	166	C	VAL	19	50.539	62.087	7.635	1.00	101.07	C
ATOM	167	O	VAL	19	49.771	61.811	6.713	1.00	101.07	O
ATOM	168	N	VAL	20	51.155	61.144	8.368	1.00	42.74	N
ATOM	169	CA	VAL	20	50.967	59.750	8.086	1.00	42.74	C
ATOM	170	CB	VAL	20	51.721	58.869	9.037	1.00	42.74	C
ATOM	171	CG1	VAL	20	51.311	57.409	8.782	1.00	42.74	C
ATOM	172	CG2	VAL	20	53.227	59.135	8.866	1.00	42.74	C
ATOM	173	C	VAL	20	49.517	59.394	8.221	1.00	42.74	C
ATOM	174	O	VAL	20	48.916	58.844	7.300	1.00	42.74	O
ATOM	175	N	GLY	21	48.901	59.756	9.359	1.00	34.13	N
ATOM	176	CA	GLY	21	47.540	59.389	9.633	1.00	34.13	C
ATOM	177	C	GLY	21	46.649	59.981	8.593	1.00	34.13	C
ATOM	178	O	GLY	21	45.649	59.378	8.204	1.00	34.13	O
ATOM	179	N	THR	22	46.980	61.195	8.123	1.00	51.74	N
ATOM	180	CA	THR	22	46.145	61.828	7.152	1.00	51.74	C
ATOM	181	CB	THR	22	46.703	63.136	6.676	1.00	51.74	C
ATOM	182	OG1	THR	22	46.897	64.013	7.777	1.00	51.74	O
ATOM	183	CG2	THR	22	45.712	63.758	5.677	1.00	51.74	C
ATOM	184	C	THR	22	46.073	60.906	5.979	1.00	51.74	C
ATOM	185	O	THR	22	44.990	60.610	5.480	1.00	51.74	O
ATOM	186	N	LEU	23	47.225	60.347	5.570	1.00	106.09	N
ATOM	187	CA	LEU	23	47.271	59.523	4.399	1.00	106.09	C
ATOM	188	CB	LEU	23	48.683	58.959	4.139	1.00	106.09	C
ATOM	189	CG	LEU	23	48.815	58.064	2.887	1.00	106.09	C
ATOM	190	CD1	LEU	23	48.203	56.664	3.093	1.00	106.09	C
ATOM	191	CD2	LEU	23	48.249	58.769	1.650	1.00	106.09	C
ATOM	192	C	LEU	23	46.320	58.384	4.563	1.00	106.09	C
ATOM	193	O	LEU	23	45.560	58.070	3.646	1.00	106.09	O
ATOM	194	N	ALA	24	46.297	57.765	5.758	1.00	39.36	N
ATOM	195	CA	ALA	24	45.450	56.626	5.964	1.00	39.36	C
ATOM	196	CB	ALA	24	45.498	56.103	7.410	1.00	39.36	C
ATOM	197	C	ALA	24	44.048	57.063	5.692	1.00	39.36	C
ATOM	198	O	ALA	24	43.266	56.335	5.082	1.00	39.36	O
ATOM	199	N	ALA	25	43.710	58.296	6.109	1.00	46.07	N
ATOM	200	CA	ALA	25	42.374	58.774	5.915	1.00	46.07	C
ATOM	201	CB	ALA	25	42.175	60.214	6.421	1.00	46.07	C
ATOM	202	C	ALA	25	42.081	58.773	4.451	1.00	46.07	C
ATOM	203	O	ALA	25	41.015	58.339	4.015	1.00	46.07	O
ATOM	204	N	ILE	26	43.052	59.217	3.639	1.00	79.46	N
ATOM	205	CA	ILE	26	42.794	59.335	2.237	1.00	79.46	C
ATOM	206	CB	ILE	26	43.984	59.887	1.528	1.00	79.46	C
ATOM	207	CG1	ILE	26	44.253	61.293	2.084	1.00	79.46	C
ATOM	208	CG2	ILE	26	43.722	59.846	0.013	1.00	79.46	C
ATOM	209	CD1	ILE	26	45.658	61.810	1.815	1.00	79.46	C
ATOM	210	C	ILE	26	42.451	57.997	1.653	1.00	79.46	C
ATOM	211	O	ILE	26	41.400	57.844	1.034	1.00	79.46	O
ATOM	212	N	ILE	27	43.269	56.964	1.916	1.00	51.10	N
ATOM	213	CA	ILE	27	43.078	55.673	1.310	1.00	51.10	C
ATOM	214	CB	ILE	27	44.089	54.663	1.780	1.00	51.10	C
ATOM	215	CG1	ILE	27	43.922	54.363	3.281	1.00	51.10	C

ATOM	216	CG2	ILE	27	45.481	55.211	1.430	1.00	51.10	C
ATOM	217	CD1	ILE	27	44.697	53.134	3.757	1.00	51.10	C
ATOM	218	C	ILE	27	41.723	55.157	1.687	1.00	51.10	C
ATOM	219	O	ILE	27	41.030	54.543	0.876	1.00	51.10	O
ATOM	220	N	HIS	28	41.318	55.394	2.945	1.00	74.81	N
ATOM	221	CA	HIS	28	40.076	54.909	3.471	1.00	74.81	C
ATOM	222	ND1	HIS	28	38.227	53.506	5.533	1.00	74.81	N
ATOM	223	CG	HIS	28	38.694	54.797	5.626	1.00	74.81	C
ATOM	224	CB	HIS	28	39.928	55.308	4.949	1.00	74.81	C
ATOM	225	NE2	HIS	28	36.837	54.593	6.888	1.00	74.81	N
ATOM	226	CD2	HIS	28	37.835	55.446	6.458	1.00	74.81	C
ATOM	227	CE1	HIS	28	37.114	53.440	6.307	1.00	74.81	C
ATOM	228	C	HIS	28	38.913	55.450	2.680	1.00	74.81	C
ATOM	229	O	HIS	28	38.021	54.692	2.295	1.00	74.81	O
ATOM	230	N	GLY	29	38.902	56.768	2.383	1.00	32.89	N
ATOM	231	CA	GLY	29	37.796	57.346	1.663	1.00	32.89	C
ATOM	232	C	GLY	29	37.724	56.684	0.338	1.00	32.89	C
ATOM	233	O	GLY	29	36.650	56.333	-0.141	1.00	32.89	O
ATOM	234	N	ALA	30	38.892	56.453	-0.270	1.00	37.62	N
ATOM	235	CA	ALA	30	38.938	55.840	-1.559	1.00	37.62	C
ATOM	236	CB	ALA	30	40.375	55.589	-2.046	1.00	37.62	C
ATOM	237	C	ALA	30	38.260	54.511	-1.440	1.00	37.62	C
ATOM	238	O	ALA	30	37.630	54.036	-2.383	1.00	37.62	O
ATOM	239	N	GLY	31	38.368	53.865	-0.265	1.00	38.31	N
ATOM	240	CA	GLY	31	37.801	52.555	-0.108	1.00	38.31	C
ATOM	241	C	GLY	31	36.320	52.579	-0.382	1.00	38.31	C
ATOM	242	O	GLY	31	35.806	51.712	-1.086	1.00	38.31	O
ATOM	243	N	LEU	32	35.581	53.580	0.131	1.00	75.38	N
ATOM	244	CA	LEU	32	34.149	53.552	-0.025	1.00	75.38	C
ATOM	245	CB	LEU	32	33.435	54.709	0.689	1.00	75.38	C
ATOM	246	CG	LEU	32	33.548	54.610	2.217	1.00	75.38	C
ATOM	247	CD1	LEU	32	32.754	55.728	2.902	1.00	75.38	C
ATOM	248	CD2	LEU	32	33.155	53.208	2.710	1.00	75.38	C
ATOM	249	C	LEU	32	33.733	53.571	-1.467	1.00	75.38	C
ATOM	250	O	LEU	32	32.859	52.795	-1.846	1.00	75.38	O
ATOM	251	N	PRO	33	34.262	54.417	-2.300	1.00	98.01	N
ATOM	252	CA	PRO	33	33.861	54.358	-3.677	1.00	98.01	C
ATOM	253	CD	PRO	33	34.554	55.777	-1.914	1.00	98.01	C
ATOM	254	CB	PRO	33	34.333	55.666	-4.310	1.00	98.01	C
ATOM	255	CG	PRO	33	35.125	56.382	-3.199	1.00	98.01	C
ATOM	256	C	PRO	33	34.345	53.154	-4.404	1.00	98.01	C
ATOM	257	O	PRO	33	33.658	52.692	-5.314	1.00	98.01	O
ATOM	258	N	LEU	34	35.524	52.637	-4.030	1.00	45.52	N
ATOM	259	CA	LEU	34	36.040	51.492	-4.717	1.00	45.52	C
ATOM	260	CB	LEU	34	37.388	51.025	-4.146	1.00	45.52	C
ATOM	261	CG	LEU	34	38.507	52.068	-4.307	1.00	45.52	C
ATOM	262	CD1	LEU	34	39.834	51.555	-3.729	1.00	45.52	C
ATOM	263	CD2	LEU	34	38.618	52.547	-5.764	1.00	45.52	C
ATOM	264	C	LEU	34	35.038	50.422	-4.474	1.00	45.52	C
ATOM	265	O	LEU	34	34.657	49.687	-5.385	1.00	45.52	O
ATOM	266	N	MET	35	34.518	50.389	-3.234	1.00	179.89	N
ATOM	267	CA	MET	35	33.549	49.410	-2.860	1.00	179.89	C
ATOM	268	CB	MET	35	32.983	49.591	-1.442	1.00	179.89	C
ATOM	269	CG	MET	35	33.819	48.973	-0.323	1.00	179.89	C
ATOM	270	SD	MET	35	33.835	47.153	-0.337	1.00	179.89	S
ATOM	271	CE	MET	35	34.097	46.974	1.452	1.00	179.89	C
ATOM	272	C	MET	35	32.388	49.555	-3.786	1.00	179.89	C
ATOM	273	O	MET	35	31.747	48.573	-4.149	1.00	179.89	O
ATOM	274	N	MET	36	32.053	50.791	-4.180	1.00	143.90	N
ATOM	275	CA	MET	36	30.915	50.943	-5.036	1.00	143.90	C
ATOM	276	CB	MET	36	30.640	52.418	-5.342	1.00	143.90	C
ATOM	277	CG	MET	36	29.207	52.674	-5.781	1.00	143.90	C
ATOM	278	SD	MET	36	28.006	52.277	-4.478	1.00	143.90	S
ATOM	279	CE	MET	36	28.789	53.309	-3.204	1.00	143.90	C
ATOM	280	C	MET	36	31.163	50.225	-6.331	1.00	143.90	C
ATOM	281	O	MET	36	30.376	49.371	-6.737	1.00	143.90	O
ATOM	282	N	LEU	37	32.330	50.467	-6.958	1.00	61.46	N
ATOM	283	CA	LEU	37	32.578	49.899	-8.254	1.00	61.46	C
ATOM	284	CB	LEU	37	33.972	50.230	-8.806	1.00	61.46	C
ATOM	285	CG	LEU	37	34.279	49.525	-10.141	1.00	61.46	C
ATOM	286	CD1	LEU	37	33.307	49.948	-11.250	1.00	61.46	C
ATOM	287	CD2	LEU	37	35.750	49.715	-10.538	1.00	61.46	C
ATOM	288	C	LEU	37	32.484	48.407	-8.198	1.00	61.46	C
ATOM	289	O	LEU	37	31.862	47.793	-9.065	1.00	61.46	O

ATOM	290	N	VAL	38	33.060	47.784	-7.158	1.00	99.45	N
ATOM	291	CA	VAL	38	33.053	46.353	-7.085	1.00	99.45	C
ATOM	292	CB	VAL	38	33.792	45.821	-5.893	1.00	99.45	C
ATOM	293	CG1	VAL	38	35.240	46.337	-5.941	1.00	99.45	C
ATOM	294	CG2	VAL	38	33.044	46.219	-4.621	1.00	99.45	C
ATOM	295	C	VAL	38	31.632	45.894	-7.018	1.00	99.45	C
ATOM	296	O	VAL	38	31.276	44.870	-7.599	1.00	99.45	O
ATOM	297	N	PHE	39	30.769	46.662	-6.332	1.00	106.92	N
ATOM	298	CA	PHE	39	29.382	46.304	-6.247	1.00	106.92	C
ATOM	299	CB	PHE	39	28.528	47.366	-5.521	1.00	106.92	C
ATOM	300	CG	PHE	39	27.082	47.082	-5.771	1.00	106.92	C
ATOM	301	CD1	PHE	39	26.427	46.075	-5.102	1.00	106.92	C
ATOM	302	CD2	PHE	39	26.393	47.818	-6.711	1.00	106.92	C
ATOM	303	CE1	PHE	39	25.097	45.824	-5.349	1.00	106.92	C
ATOM	304	CE2	PHE	39	25.063	47.575	-6.963	1.00	106.92	C
ATOM	305	CZ	PHE	39	24.420	46.576	-6.278	1.00	106.92	C
ATOM	306	C	PHE	39	28.889	46.210	-7.651	1.00	106.92	C
ATOM	307	O	PHE	39	28.053	45.369	-7.965	1.00	106.92	O
ATOM	308	N	GLY	40	29.371	47.102	-8.533	1.00	45.35	N
ATOM	309	CA	GLY	40	28.927	47.078	-9.897	1.00	45.35	C
ATOM	310	C	GLY	40	29.360	45.848	-10.658	1.00	45.35	C
ATOM	311	O	GLY	40	28.549	45.192	-11.306	1.00	45.35	O
ATOM	312	N	GLU	41	30.648	45.470	-10.605	1.00	94.42	N
ATOM	313	CA	GLU	41	31.048	44.355	-11.422	1.00	94.42	C
ATOM	314	CB	GLU	41	32.567	44.088	-11.456	1.00	94.42	C
ATOM	315	CG	GLU	41	33.225	43.804	-10.107	1.00	94.42	C
ATOM	316	CD	GLU	41	34.682	43.417	-10.367	1.00	94.42	C
ATOM	317	OE1	GLU	41	35.089	43.342	-11.558	1.00	94.42	O
ATOM	318	OE2	GLU	41	35.409	43.185	-9.364	1.00	94.42	O
ATOM	319	C	GLU	41	30.349	43.119	-10.957	1.00	94.42	C
ATOM	320	O	GLU	41	30.020	42.241	-11.754	1.00	94.42	O
ATOM	321	N	MET	42	30.123	42.994	-9.641	1.00	93.28	N
ATOM	322	CA	MET	42	29.446	41.824	-9.173	1.00	93.28	C
ATOM	323	CB	MET	42	29.370	41.753	-7.637	1.00	93.28	C
ATOM	324	CG	MET	42	28.481	42.832	-7.024	1.00	93.28	C
ATOM	325	SD	MET	42	28.405	42.828	-5.206	1.00	93.28	S
ATOM	326	CE	MET	42	30.061	43.521	-4.921	1.00	93.28	C
ATOM	327	C	MET	42	28.057	41.861	-9.732	1.00	93.28	C
ATOM	328	O	MET	42	27.518	40.843	-10.163	1.00	93.28	O
ATOM	329	N	THR	43	27.447	43.062	-9.758	1.00	141.32	N
ATOM	330	CA	THR	43	26.102	43.185	-10.236	1.00	141.32	C
ATOM	331	CB	THR	43	25.447	44.513	-9.945	1.00	141.32	C
ATOM	332	OG1	THR	43	26.125	45.589	-10.567	1.00	141.32	O
ATOM	333	CG2	THR	43	25.438	44.723	-8.425	1.00	141.32	C
ATOM	334	C	THR	43	26.026	42.886	-11.703	1.00	141.32	C
ATOM	335	O	THR	43	25.032	42.320	-12.154	1.00	141.32	O
ATOM	336	N	ASP	44	27.048	43.272	-12.498	1.00	60.89	N
ATOM	337	CA	ASP	44	26.990	43.022	-13.916	1.00	60.89	C
ATOM	338	CB	ASP	44	28.162	43.626	-14.713	1.00	60.89	C
ATOM	339	CG	ASP	44	27.856	45.093	-14.979	1.00	60.89	C
ATOM	340	OD1	ASP	44	26.650	45.422	-15.136	1.00	60.89	O
ATOM	341	OD2	ASP	44	28.820	45.902	-15.034	1.00	60.89	O
ATOM	342	C	ASP	44	26.965	41.551	-14.201	1.00	60.89	C
ATOM	343	O	ASP	44	26.145	41.082	-14.989	1.00	60.89	O
ATOM	344	N	ILE	45	27.830	40.770	-13.534	1.00	104.24	N
ATOM	345	CA	ILE	45	27.883	39.354	-13.780	1.00	104.24	C
ATOM	346	CB	ILE	45	28.848	38.633	-12.884	1.00	104.24	C
ATOM	347	CG1	ILE	45	30.291	39.060	-13.193	1.00	104.24	C
ATOM	348	CG2	ILE	45	28.599	37.124	-13.040	1.00	104.24	C
ATOM	349	CD1	ILE	45	30.726	38.723	-14.619	1.00	104.24	C
ATOM	350	C	ILE	45	26.518	38.831	-13.472	1.00	104.24	C
ATOM	351	O	ILE	45	26.025	37.891	-14.098	1.00	104.24	O
ATOM	352	N	PHE	46	25.887	39.455	-12.465	1.00	72.86	N
ATOM	353	CA	PHE	46	24.597	39.086	-11.968	1.00	72.86	C
ATOM	354	CB	PHE	46	24.185	39.953	-10.766	1.00	72.86	C
ATOM	355	CG	PHE	46	23.069	39.271	-10.052	1.00	72.86	C
ATOM	356	CD1	PHE	46	23.355	38.256	-9.167	1.00	72.86	C
ATOM	357	CD2	PHE	46	21.756	39.637	-10.244	1.00	72.86	C
ATOM	358	CE1	PHE	46	22.351	37.609	-8.488	1.00	72.86	C
ATOM	359	CE2	PHE	46	20.746	38.992	-9.567	1.00	72.86	C
ATOM	360	CZ	PHE	46	21.043	37.978	-8.689	1.00	72.86	C
ATOM	361	C	PHE	46	23.570	39.271	-13.049	1.00	72.86	C
ATOM	362	O	PHE	46	22.633	38.480	-13.171	1.00	72.86	O
ATOM	363	N	ALA	47	23.685	40.366	-13.824	1.00	47.51	N

ATOM	364	CA	ALA	47	22.746	40.635	-14.876	1.00	47.51	C
ATOM	365	CB	ALA	47	22.972	42.004	-15.541	1.00	47.51	C
ATOM	366	C	ALA	47	22.857	39.600	-15.949	1.00	47.51	C
ATOM	367	O	ALA	47	21.846	39.084	-16.419	1.00	47.51	O
ATOM	368	N	ASN	48	24.095	39.243	-16.343	1.00	71.28	N
ATOM	369	CA	ASN	48	24.307	38.329	-17.434	1.00	71.28	C
ATOM	370	CB	ASN	48	25.800	38.088	-17.721	1.00	71.28	C
ATOM	371	CG	ASN	48	25.910	37.311	-19.026	1.00	71.28	C
ATOM	372	OD1	ASN	48	24.906	36.882	-19.592	1.00	71.28	O
ATOM	373	ND2	ASN	48	27.164	37.117	-19.514	1.00	71.28	N
ATOM	374	C	ASN	48	23.690	37.012	-17.089	1.00	71.28	C
ATOM	375	O	ASN	48	23.038	36.377	-17.919	1.00	71.28	O
ATOM	376	N	ALA	49	23.880	36.571	-15.835	1.00	36.80	N
ATOM	377	CA	ALA	49	23.347	35.316	-15.411	1.00	36.80	C
ATOM	378	CB	ALA	49	23.729	34.968	-13.962	1.00	36.80	C
ATOM	379	C	ALA	49	21.855	35.376	-15.490	1.00	36.80	C
ATOM	380	O	ALA	49	21.195	34.411	-15.873	1.00	36.80	O
ATOM	381	N	GLY	50	21.291	36.523	-15.084	1.00	50.24	N
ATOM	382	CA	GLY	50	19.879	36.762	-15.122	1.00	50.24	C
ATOM	383	C	GLY	50	19.410	36.850	-16.548	1.00	50.24	C
ATOM	384	O	GLY	50	18.247	36.605	-16.843	1.00	50.24	O
ATOM	385	N	ASN	51	20.268	37.317	-17.467	1.00	54.16	N
ATOM	386	CA	ASN	51	19.879	37.473	-18.837	1.00	54.16	C
ATOM	387	CB	ASN	51	20.971	38.152	-19.682	1.00	54.16	C
ATOM	388	CG	ASN	51	20.410	38.455	-21.068	1.00	54.16	C
ATOM	389	OD1	ASN	51	19.324	38.006	-21.431	1.00	54.16	O
ATOM	390	ND2	ASN	51	21.179	39.237	-21.872	1.00	54.16	N
ATOM	391	C	ASN	51	19.643	36.124	-19.428	1.00	54.16	C
ATOM	392	O	ASN	51	18.686	35.903	-20.164	1.00	54.16	O
ATOM	393	N	LEU	52	20.559	35.177	-19.190	1.00	123.70	N
ATOM	394	CA	LEU	52	20.295	33.874	-19.713	1.00	123.70	C
ATOM	395	CB	LEU	52	21.538	32.965	-19.691	1.00	123.70	C
ATOM	396	CG	LEU	52	22.664	33.454	-20.626	1.00	123.70	C
ATOM	397	CD1	LEU	52	23.195	34.825	-20.182	1.00	123.70	C
ATOM	398	CD2	LEU	52	23.780	32.404	-20.773	1.00	123.70	C
ATOM	399	C	LEU	52	19.208	33.220	-18.901	1.00	123.70	C
ATOM	400	O	LEU	52	18.365	32.502	-19.434	1.00	123.70	O
ATOM	401	N	GLU	53	19.279	33.382	-17.564	1.00	144.48	N
ATOM	402	CA	GLU	53	18.409	32.734	-16.608	1.00	144.48	C
ATOM	403	CB	GLU	53	19.036	32.655	-15.205	1.00	144.48	C
ATOM	404	CG	GLU	53	20.098	31.576	-15.019	1.00	144.48	C
ATOM	405	CD	GLU	53	20.730	31.789	-13.650	1.00	144.48	C
ATOM	406	OE1	GLU	53	21.356	32.864	-13.453	1.00	144.48	O
ATOM	407	OE2	GLU	53	20.592	30.885	-12.783	1.00	144.48	O
ATOM	408	C	GLU	53	17.041	33.261	-16.322	1.00	144.48	C
ATOM	409	O	GLU	53	16.083	32.504	-16.443	1.00	144.48	O
ATOM	410	N	ASP	54	16.947	34.558	-15.947	1.00	242.90	N
ATOM	411	CA	ASP	54	15.831	35.286	-15.367	1.00	242.90	C
ATOM	412	CB	ASP	54	15.569	36.653	-16.024	1.00	242.90	C
ATOM	413	CG	ASP	54	14.377	37.321	-15.347	1.00	242.90	C
ATOM	414	OD1	ASP	54	14.014	36.921	-14.208	1.00	242.90	O
ATOM	415	OD2	ASP	54	13.815	38.261	-15.970	1.00	242.90	O
ATOM	416	C	ASP	54	14.557	34.521	-15.411	1.00	242.90	C
ATOM	417	O	ASP	54	13.748	34.734	-16.310	1.00	242.90	O
ATOM	418	N	LEU	55	14.301	33.692	-14.367	1.00	286.74	N
ATOM	419	CA	LEU	55	13.163	32.823	-14.431	1.00	286.74	C
ATOM	420	CB	LEU	55	11.844	33.560	-14.735	1.00	286.74	C
ATOM	421	CG	LEU	55	10.606	32.651	-14.810	1.00	286.74	C
ATOM	422	CD1	LEU	55	10.305	32.006	-13.445	1.00	286.74	C
ATOM	423	CD2	LEU	55	9.401	33.404	-15.396	1.00	286.74	C
ATOM	424	C	LEU	55	13.544	31.977	-15.583	1.00	286.74	C
ATOM	425	O	LEU	55	14.304	31.019	-15.443	1.00	286.74	O
ATOM	426	N	MET	56	12.979	32.285	-16.758	1.00	194.44	N
ATOM	427	CA	MET	56	13.568	31.779	-17.952	1.00	194.44	C
ATOM	428	CB	MET	56	12.604	30.948	-18.813	1.00	194.44	C
ATOM	429	CG	MET	56	12.178	29.635	-18.154	1.00	194.44	C
ATOM	430	SD	MET	56	11.091	29.846	-16.713	1.00	194.44	S
ATOM	431	CE	MET	56	9.652	30.412	-17.667	1.00	194.44	C
ATOM	432	C	MET	56	13.852	33.039	-18.705	1.00	194.44	C
ATOM	433	O	MET	56	13.044	33.416	-19.552	1.00	194.44	O
ATOM	434	N	SER	57	14.968	33.756	-18.391	1.00	156.67	N
ATOM	435	CA	SER	57	15.189	34.944	-19.134	1.00	156.67	C
ATOM	436	CB	SER	57	16.415	35.732	-18.684	1.00	156.67	C
ATOM	437	OG	SER	57	16.477	36.966	-19.384	1.00	156.67	O

ATOM	438	C	SER	57	15.375	34.447	-20.524	1.00156.67	C
ATOM	439	O	SER	57	14.467	34.501	-21.351	1.00156.67	O
ATOM	440	N	ASN	58	16.552	33.878	-20.812	1.00165.32	N
ATOM	441	CA	ASN	58	16.638	33.231	-22.077	1.00165.32	C
ATOM	442	CB	ASN	58	17.686	33.816	-23.036	1.00165.32	C
ATOM	443	CG	ASN	58	17.500	33.113	-24.376	1.00165.32	C
ATOM	444	OD1	ASN	58	16.776	32.123	-24.476	1.00165.32	O
ATOM	445	ND2	ASN	58	18.176	33.631	-25.435	1.00165.32	N
ATOM	446	C	ASN	58	17.075	31.848	-21.759	1.00165.32	C
ATOM	447	O	ASN	58	18.194	31.470	-22.085	1.00165.32	O
ATOM	448	N	ILE	59	16.176	31.059	-21.144	1.00172.29	N
ATOM	449	CA	ILE	59	16.404	29.701	-20.756	1.00172.29	C
ATOM	450	CB	ILE	59	15.997	29.409	-19.330	1.00172.29	C
ATOM	451	CG1	ILE	59	16.746	30.341	-18.364	1.00172.29	C
ATOM	452	CG2	ILE	59	16.352	27.944	-18.998	1.00172.29	C
ATOM	453	CD1	ILE	59	18.239	30.027	-18.271	1.00172.29	C
ATOM	454	C	ILE	59	15.508	28.976	-21.714	1.00172.29	C
ATOM	455	O	ILE	59	15.542	29.279	-22.904	1.00172.29	O
ATOM	456	N	THR	60	14.725	27.973	-21.277	1.00197.71	N
ATOM	457	CA	THR	60	13.857	27.314	-22.208	1.00197.71	C
ATOM	458	CB	THR	60	12.947	28.297	-22.889	1.00197.71	C
ATOM	459	OG1	THR	60	12.245	29.050	-21.912	1.00197.71	O
ATOM	460	CG2	THR	60	11.933	27.541	-23.763	1.00197.71	C
ATOM	461	C	THR	60	14.747	26.680	-23.236	1.00197.71	C
ATOM	462	O	THR	60	14.335	26.378	-24.355	1.00197.71	O
ATOM	463	N	ASN	61	16.015	26.444	-22.850	1.00 78.39	N
ATOM	464	CA	ASN	61	16.973	25.858	-23.740	1.00 78.39	C
ATOM	465	CB	ASN	61	17.955	26.868	-24.360	1.00 78.39	C
ATOM	466	CG	ASN	61	17.200	27.658	-25.420	1.00 78.39	C
ATOM	467	OD1	ASN	61	16.353	27.116	-26.129	1.00 78.39	O
ATOM	468	ND2	ASN	61	17.513	28.976	-25.537	1.00 78.39	N
ATOM	469	C	ASN	61	17.766	24.875	-22.942	1.00 78.39	C
ATOM	470	O	ASN	61	17.305	24.384	-21.913	1.00 78.39	O
ATOM	471	N	ARG	62	18.992	24.561	-23.411	1.00157.77	N
ATOM	472	CA	ARG	62	19.788	23.555	-22.769	1.00157.77	C
ATOM	473	CB	ARG	62	21.202	23.420	-23.366	1.00157.77	C
ATOM	474	CG	ARG	62	21.210	22.906	-24.809	1.00157.77	C
ATOM	475	CD	ARG	62	22.610	22.625	-25.362	1.00157.77	C
ATOM	476	NE	ARG	62	23.311	23.930	-25.530	1.00157.77	N
ATOM	477	CZ	ARG	62	23.209	24.609	-26.710	1.00157.77	C
ATOM	478	NH1	ARG	62	22.439	24.110	-27.720	1.00157.77	N
ATOM	479	NH2	ARG	62	23.879	25.786	-26.883	1.00157.77	N
ATOM	480	C	ARG	62	19.931	23.886	-21.319	1.00157.77	C
ATOM	481	O	ARG	62	20.543	24.883	-20.936	1.00157.77	O
ATOM	482	N	SER	63	19.358	23.006	-20.477	1.00 89.21	N
ATOM	483	CA	SER	63	19.347	23.137	-19.050	1.00 89.21	C
ATOM	484	CB	SER	63	18.531	22.026	-18.367	1.00 89.21	C
ATOM	485	OG	SER	63	17.168	22.089	-18.759	1.00 89.21	O
ATOM	486	C	SER	63	20.741	23.009	-18.519	1.00 89.21	C
ATOM	487	O	SER	63	21.166	23.781	-17.661	1.00 89.21	O
ATOM	488	N	ASP	64	21.500	22.033	-19.050	1.00 90.36	N
ATOM	489	CA	ASP	64	22.808	21.717	-18.548	1.00 90.36	C
ATOM	490	CB	ASP	64	23.469	20.544	-19.298	1.00 90.36	C
ATOM	491	CG	ASP	64	23.662	20.939	-20.757	1.00 90.36	C
ATOM	492	OD1	ASP	64	22.729	21.563	-21.330	1.00 90.36	O
ATOM	493	OD2	ASP	64	24.741	20.612	-21.320	1.00 90.36	O
ATOM	494	C	ASP	64	23.702	22.905	-18.692	1.00 90.36	C
ATOM	495	O	ASP	64	24.515	23.193	-17.815	1.00 90.36	O
ATOM	496	N	ILE	65	23.560	23.634	-19.807	1.00 99.61	N
ATOM	497	CA	ILE	65	24.382	24.774	-20.073	1.00 99.61	C
ATOM	498	CB	ILE	65	24.069	25.429	-21.389	1.00 99.61	C
ATOM	499	CG1	ILE	65	24.340	24.453	-22.546	1.00 99.61	C
ATOM	500	CG2	ILE	65	24.887	26.728	-21.478	1.00 99.61	C
ATOM	501	CD1	ILE	65	25.791	23.980	-22.609	1.00 99.61	C
ATOM	502	C	ILE	65	24.117	25.771	-18.997	1.00 99.61	C
ATOM	503	O	ILE	65	24.992	26.557	-18.647	1.00 99.61	O
ATOM	504	N	ASN	66	22.865	25.820	-18.513	1.00 51.94	N
ATOM	505	CA	ASN	66	22.478	26.736	-17.480	1.00 51.94	C
ATOM	506	CB	ASN	66	20.958	26.754	-17.256	1.00 51.94	C
ATOM	507	CG	ASN	66	20.316	27.309	-18.520	1.00 51.94	C
ATOM	508	OD1	ASN	66	20.757	28.321	-19.062	1.00 51.94	O
ATOM	509	ND2	ASN	66	19.249	26.624	-19.010	1.00 51.94	N
ATOM	510	C	ASN	66	23.126	26.340	-16.192	1.00 51.94	C
ATOM	511	O	ASN	66	23.592	27.185	-15.432	1.00 51.94	O

ATOM	512	N	ASP	67	23.176	25.035	-15.884	1.00102.81	N
ATOM	513	CA	ASP	67	23.776	24.706	-14.627	1.00102.81	C
ATOM	514	CB	ASP	67	23.674	23.213	-14.239	1.00102.81	C
ATOM	515	CG	ASP	67	24.448	22.330	-15.208	1.00102.81	C
ATOM	516	OD1	ASP	67	25.707	22.356	-15.171	1.00102.81	O
ATOM	517	OD2	ASP	67	23.781	21.595	-15.985	1.00102.81	O
ATOM	518	C	ASP	67	25.214	25.109	-14.675	1.00102.81	C
ATOM	519	O	ASP	67	25.755	25.615	-13.693	1.00102.81	O
ATOM	520	N	THR	68	25.878	24.883	-15.823	1.00108.97	N
ATOM	521	CA	THR	68	27.272	25.200	-15.944	1.00108.97	C
ATOM	522	CB	THR	68	27.928	24.586	-17.152	1.00108.97	C
ATOM	523	OG1	THR	68	29.334	24.765	-17.074	1.00108.97	O
ATOM	524	CG2	THR	68	27.385	25.238	-18.433	1.00108.97	C
ATOM	525	C	THR	68	27.520	26.678	-15.974	1.00108.97	C
ATOM	526	O	THR	68	28.397	27.173	-15.269	1.00108.97	O
ATOM	527	N	GLY	69	26.746	27.435	-16.775	1.00 30.26	N
ATOM	528	CA	GLY	69	27.026	28.835	-16.900	1.00 30.26	C
ATOM	529	C	GLY	69	26.830	29.489	-15.575	1.00 30.26	C
ATOM	530	O	GLY	69	27.608	30.355	-15.176	1.00 30.26	O
ATOM	531	N	PHE	70	25.745	29.114	-14.877	1.00147.03	N
ATOM	532	CA	PHE	70	25.422	29.759	-13.645	1.00147.03	C
ATOM	533	CB	PHE	70	23.922	29.673	-13.327	1.00147.03	C
ATOM	534	CG	PHE	70	23.379	30.405	-14.516	1.00147.03	C
ATOM	535	CD1	PHE	70	23.584	31.755	-14.646	1.00147.03	C
ATOM	536	CD2	PHE	70	22.732	29.756	-15.542	1.00147.03	C
ATOM	537	CE1	PHE	70	23.117	32.419	-15.755	1.00147.03	C
ATOM	538	CE2	PHE	70	22.262	30.414	-16.653	1.00147.03	C
ATOM	539	CZ	PHE	70	22.455	31.766	-16.763	1.00147.03	C
ATOM	540	C	PHE	70	26.320	29.390	-12.502	1.00147.03	C
ATOM	541	O	PHE	70	26.778	30.263	-11.769	1.00147.03	O
ATOM	542	N	PHE	71	26.652	28.100	-12.334	1.00132.89	N
ATOM	543	CA	PHE	71	27.491	27.722	-11.235	1.00132.89	C
ATOM	544	CB	PHE	71	27.770	26.212	-11.179	1.00132.89	C
ATOM	545	CG	PHE	71	28.000	25.883	-9.745	1.00132.89	C
ATOM	546	CD1	PHE	71	29.161	26.226	-9.096	1.00132.89	C
ATOM	547	CD2	PHE	71	27.022	25.214	-9.047	1.00132.89	C
ATOM	548	CE1	PHE	71	29.334	25.905	-7.768	1.00132.89	C
ATOM	549	CE2	PHE	71	27.190	24.890	-7.723	1.00132.89	C
ATOM	550	CZ	PHE	71	28.351	25.239	-7.079	1.00132.89	C
ATOM	551	C	PHE	71	28.783	28.423	-11.503	1.00132.89	C
ATOM	552	O	PHE	71	29.524	28.779	-10.589	1.00132.89	O
ATOM	553	N	MET	72	29.086	28.610	-12.801	1.00 93.34	N
ATOM	554	CA	MET	72	30.304	29.251	-13.201	1.00 93.34	C
ATOM	555	CB	MET	72	30.395	29.398	-14.732	1.00 93.34	C
ATOM	556	CG	MET	72	31.677	30.076	-15.224	1.00 93.34	C
ATOM	557	SD	MET	72	31.753	30.344	-17.023	1.00 93.34	S
ATOM	558	CE	MET	72	32.163	28.625	-17.440	1.00 93.34	C
ATOM	559	C	MET	72	30.377	30.640	-12.634	1.00 93.34	C
ATOM	560	O	MET	72	31.300	30.958	-11.888	1.00 93.34	O
ATOM	561	N	ASN	73	29.375	31.491	-12.919	1.00 55.54	N
ATOM	562	CA	ASN	73	29.412	32.849	-12.447	1.00 55.54	C
ATOM	563	CB	ASN	73	28.323	33.743	-13.060	1.00 55.54	C
ATOM	564	CG	ASN	73	28.711	34.034	-14.503	1.00 55.54	C
ATOM	565	OD1	ASN	73	29.840	34.431	-14.789	1.00 55.54	O
ATOM	566	ND2	ASN	73	27.749	33.832	-15.443	1.00 55.54	N
ATOM	567	C	ASN	73	29.228	32.850	-10.968	1.00 55.54	C
ATOM	568	O	ASN	73	29.740	33.727	-10.274	1.00 55.54	O
ATOM	569	N	LEU	74	28.451	31.886	-10.445	1.00133.59	N
ATOM	570	CA	LEU	74	28.205	31.883	-9.034	1.00133.59	C
ATOM	571	CB	LEU	74	27.263	30.730	-8.617	1.00133.59	C
ATOM	572	CG	LEU	74	26.920	30.618	-7.112	1.00133.59	C
ATOM	573	CD1	LEU	74	25.770	29.629	-6.905	1.00133.59	C
ATOM	574	CD2	LEU	74	28.112	30.193	-6.240	1.00133.59	C
ATOM	575	C	LEU	74	29.500	31.725	-8.315	1.00133.59	C
ATOM	576	O	LEU	74	29.900	32.586	-7.533	1.00133.59	O
ATOM	577	N	GLU	75	30.234	30.641	-8.609	1.00113.10	N
ATOM	578	CA	GLU	75	31.449	30.395	-7.891	1.00113.10	C
ATOM	579	CB	GLU	75	32.220	29.172	-8.405	1.00113.10	C
ATOM	580	CG	GLU	75	31.496	27.840	-8.289	1.00113.10	C
ATOM	581	CD	GLU	75	32.370	26.815	-9.003	1.00113.10	C
ATOM	582	OE1	GLU	75	33.489	27.200	-9.434	1.00113.10	O
ATOM	583	OE2	GLU	75	31.933	25.641	-9.133	1.00113.10	O
ATOM	584	C	GLU	75	32.382	31.512	-8.188	1.00113.10	C
ATOM	585	O	GLU	75	33.044	32.037	-7.295	1.00113.10	O

ATOM	586	N	GLU	76	32.438	31.908	-9.472	1.00	94.72	N
ATOM	587	CA	GLU	76	33.432	32.851	-9.891	1.00	94.72	C
ATOM	588	CB	GLU	76	33.368	33.151	-11.400	1.00	94.72	C
ATOM	589	CG	GLU	76	34.481	34.082	-11.893	1.00	94.72	C
ATOM	590	CD	GLU	76	34.036	35.522	-11.684	1.00	94.72	C
ATOM	591	OE1	GLU	76	32.811	35.740	-11.483	1.00	94.72	O
ATOM	592	OE2	GLU	76	34.916	36.423	-11.730	1.00	94.72	O
ATOM	593	C	GLU	76	33.286	34.152	-9.171	1.00	94.72	C
ATOM	594	O	GLU	76	34.238	34.649	-8.574	1.00	94.72	O
ATOM	595	N	ASP	77	32.078	34.733	-9.178	1.00	95.80	N
ATOM	596	CA	ASP	77	31.894	35.997	-8.532	1.00	95.80	C
ATOM	597	CB	ASP	77	30.498	36.601	-8.776	1.00	95.80	C
ATOM	598	CG	ASP	77	30.471	38.030	-8.240	1.00	95.80	C
ATOM	599	OD1	ASP	77	31.547	38.538	-7.823	1.00	95.80	O
ATOM	600	OD2	ASP	77	29.366	38.634	-8.247	1.00	95.80	O
ATOM	601	C	ASP	77	32.047	35.758	-7.074	1.00	95.80	C
ATOM	602	O	ASP	77	32.378	36.666	-6.321	1.00	95.80	O
ATOM	603	N	MET	78	31.778	34.520	-6.632	1.00	120.39	N
ATOM	604	CA	MET	78	31.840	34.214	-5.237	1.00	120.39	C
ATOM	605	CB	MET	78	31.429	32.764	-4.936	1.00	120.39	C
ATOM	606	CG	MET	78	30.763	32.602	-3.569	1.00	120.39	C
ATOM	607	SD	MET	78	29.097	33.335	-3.522	1.00	120.39	S
ATOM	608	CE	MET	78	28.558	32.504	-2.003	1.00	120.39	C
ATOM	609	C	MET	78	33.253	34.424	-4.795	1.00	120.39	C
ATOM	610	O	MET	78	33.491	34.918	-3.694	1.00	120.39	O
ATOM	611	N	THR	79	34.239	34.039	-5.633	1.00	114.62	N
ATOM	612	CA	THR	79	35.596	34.293	-5.246	1.00	114.62	C
ATOM	613	CB	THR	79	36.650	33.748	-6.168	1.00	114.62	C
ATOM	614	OG1	THR	79	36.540	34.317	-7.463	1.00	114.62	O
ATOM	615	CG2	THR	79	36.525	32.223	-6.223	1.00	114.62	C
ATOM	616	C	THR	79	35.779	35.769	-5.227	1.00	114.62	C
ATOM	617	O	THR	79	36.391	36.314	-4.312	1.00	114.62	O
ATOM	618	N	ARG	80	35.210	36.461	-6.231	1.00	75.60	N
ATOM	619	CA	ARG	80	35.384	37.878	-6.332	1.00	75.60	C
ATOM	620	CB	ARG	80	34.704	38.504	-7.562	1.00	75.60	C
ATOM	621	CG	ARG	80	35.503	38.299	-8.852	1.00	75.60	C
ATOM	622	CD	ARG	80	34.996	39.130	-10.032	1.00	75.60	C
ATOM	623	NE	ARG	80	36.012	39.038	-11.119	1.00	75.60	N
ATOM	624	CZ	ARG	80	35.655	39.293	-12.412	1.00	75.60	C
ATOM	625	NH1	ARG	80	34.352	39.562	-12.717	1.00	75.60	N
ATOM	626	NH2	ARG	80	36.599	39.280	-13.399	1.00	75.60	N
ATOM	627	C	ARG	80	34.838	38.531	-5.101	1.00	75.60	C
ATOM	628	O	ARG	80	35.415	39.496	-4.605	1.00	75.60	O
ATOM	629	N	TYR	81	33.712	38.027	-4.566	1.00	68.41	N
ATOM	630	CA	TYR	81	33.143	38.610	-3.390	1.00	68.41	C
ATOM	631	CB	TYR	81	31.880	37.888	-2.858	1.00	68.41	C
ATOM	632	CG	TYR	81	30.736	38.019	-3.811	1.00	68.41	C
ATOM	633	CD1	TYR	81	30.068	39.216	-3.953	1.00	68.41	C
ATOM	634	CD2	TYR	81	30.305	36.931	-4.536	1.00	68.41	C
ATOM	635	CE1	TYR	81	29.011	39.333	-4.827	1.00	68.41	C
ATOM	636	CE2	TYR	81	29.248	37.042	-5.410	1.00	68.41	C
ATOM	637	CZ	TYR	81	28.599	38.245	-5.559	1.00	68.41	C
ATOM	638	OH	TYR	81	27.514	38.361	-6.456	1.00	68.41	O
ATOM	639	C	TYR	81	34.154	38.475	-2.297	1.00	68.41	C
ATOM	640	O	TYR	81	34.460	39.436	-1.594	1.00	68.41	O
ATOM	641	N	ALA	82	34.745	37.275	-2.160	1.00	39.20	N
ATOM	642	CA	ALA	82	35.636	37.030	-1.065	1.00	39.20	C
ATOM	643	CB	ALA	82	36.231	35.613	-1.090	1.00	39.20	C
ATOM	644	C	ALA	82	36.778	37.987	-1.133	1.00	39.20	C
ATOM	645	O	ALA	82	37.150	38.602	-0.135	1.00	39.20	O
ATOM	646	N	TYR	83	37.352	38.171	-2.328	1.00	119.24	N
ATOM	647	CA	TYR	83	38.479	39.038	-2.432	1.00	119.24	C
ATOM	648	CB	TYR	83	39.152	39.016	-3.817	1.00	119.24	C
ATOM	649	CG	TYR	83	39.652	37.626	-4.036	1.00	119.24	C
ATOM	650	CD1	TYR	83	40.733	37.152	-3.329	1.00	119.24	C
ATOM	651	CD2	TYR	83	39.020	36.781	-4.919	1.00	119.24	C
ATOM	652	CE1	TYR	83	41.192	35.869	-3.519	1.00	119.24	C
ATOM	653	CE2	TYR	83	39.473	35.497	-5.116	1.00	119.24	C
ATOM	654	CZ	TYR	83	40.564	35.039	-4.417	1.00	119.24	C
ATOM	655	OH	TYR	83	41.032	33.723	-4.617	1.00	119.24	O
ATOM	656	C	TYR	83	38.054	40.438	-2.113	1.00	119.24	C
ATOM	657	O	TYR	83	38.835	41.194	-1.542	1.00	119.24	O
ATOM	658	N	TYR	84	36.830	40.849	-2.509	1.00	102.09	N
ATOM	659	CA	TYR	84	36.468	42.225	-2.296	1.00	102.09	C

ATOM	660	CB	TYR	84	35.260	42.752	-3.108	1.00102.09	C
ATOM	661	CG	TYR	84	33.942	42.526	-2.450	1.00102.09	C
ATOM	662	CD1	TYR	84	33.496	43.390	-1.477	1.00102.09	C
ATOM	663	CD2	TYR	84	33.131	41.490	-2.831	1.00102.09	C
ATOM	664	CE1	TYR	84	32.274	43.204	-0.873	1.00102.09	C
ATOM	665	CE2	TYR	84	31.909	41.292	-2.234	1.00102.09	C
ATOM	666	CZ	TYR	84	31.479	42.149	-1.251	1.00102.09	C
ATOM	667	OH	TYR	84	30.224	41.947	-0.640	1.00102.09	O
ATOM	668	C	TYR	84	36.268	42.556	-0.845	1.00102.09	C
ATOM	669	O	TYR	84	36.786	43.567	-0.374	1.00102.09	O
ATOM	670	N	TYR	85	35.534	41.724	-0.073	1.00 72.59	N
ATOM	671	CA	TYR	85	35.338	42.092	1.301	1.00 72.59	C
ATOM	672	CB	TYR	85	34.441	41.157	2.137	1.00 72.59	C
ATOM	673	CG	TYR	85	35.177	39.927	2.543	1.00 72.59	C
ATOM	674	CD1	TYR	85	35.177	38.803	1.753	1.00 72.59	C
ATOM	675	CD2	TYR	85	35.866	39.900	3.737	1.00 72.59	C
ATOM	676	CE1	TYR	85	35.861	37.676	2.147	1.00 72.59	C
ATOM	677	CE2	TYR	85	36.552	38.778	4.136	1.00 72.59	C
ATOM	678	CZ	TYR	85	36.549	37.661	3.336	1.00 72.59	C
ATOM	679	OH	TYR	85	37.249	36.503	3.734	1.00 72.59	O
ATOM	680	C	TYR	85	36.689	42.062	1.914	1.00 72.59	C
ATOM	681	O	TYR	85	37.010	42.855	2.793	1.00 72.59	O
ATOM	682	N	SER	86	37.512	41.102	1.474	1.00 98.58	N
ATOM	683	CA	SER	86	38.823	40.962	2.015	1.00 98.58	C
ATOM	684	CB	SER	86	39.602	39.824	1.337	1.00 98.58	C
ATOM	685	OG	SER	86	40.898	39.717	1.902	1.00 98.58	O
ATOM	686	C	SER	86	39.604	42.225	1.830	1.00 98.58	C
ATOM	687	O	SER	86	39.840	42.948	2.796	1.00 98.58	O
ATOM	688	N	GLY	87	39.938	42.577	0.569	1.00 39.35	N
ATOM	689	CA	GLY	87	40.853	43.658	0.326	1.00 39.35	C
ATOM	690	C	GLY	87	40.355	44.914	0.961	1.00 39.35	C
ATOM	691	O	GLY	87	41.118	45.615	1.624	1.00 39.35	O
ATOM	692	N	ILE	88	39.067	45.249	0.775	1.00111.46	N
ATOM	693	CA	ILE	88	38.604	46.459	1.386	1.00111.46	C
ATOM	694	CB	ILE	88	37.224	46.860	0.964	1.00111.46	C
ATOM	695	CG1	ILE	88	37.188	47.150	-0.545	1.00111.46	C
ATOM	696	CG2	ILE	88	36.810	48.064	1.831	1.00111.46	C
ATOM	697	CD1	ILE	88	38.099	48.304	-0.965	1.00111.46	C
ATOM	698	C	ILE	88	38.555	46.302	2.871	1.00111.46	C
ATOM	699	O	ILE	88	39.158	47.073	3.612	1.00111.46	O
ATOM	700	N	GLY	89	37.898	45.232	3.344	1.00 45.32	N
ATOM	701	CA	GLY	89	37.628	45.102	4.742	1.00 45.32	C
ATOM	702	C	GLY	89	38.890	45.120	5.528	1.00 45.32	C
ATOM	703	O	GLY	89	39.019	45.902	6.467	1.00 45.32	O
ATOM	704	N	ALA	90	39.875	44.293	5.145	1.00 37.94	N
ATOM	705	CA	ALA	90	41.094	44.279	5.891	1.00 37.94	C
ATOM	706	CB	ALA	90	42.134	43.302	5.317	1.00 37.94	C
ATOM	707	C	ALA	90	41.644	45.656	5.766	1.00 37.94	C
ATOM	708	O	ALA	90	42.141	46.237	6.730	1.00 37.94	O
ATOM	709	N	GLY	91	41.489	46.239	4.565	1.00 47.86	N
ATOM	710	CA	GLY	91	42.069	47.522	4.334	1.00 47.86	C
ATOM	711	C	GLY	91	41.539	48.516	5.322	1.00 47.86	C
ATOM	712	O	GLY	91	42.311	49.163	6.023	1.00 47.86	O
ATOM	713	N	VAL	92	40.209	48.616	5.470	1.00133.95	N
ATOM	714	CA	VAL	92	39.638	49.619	6.323	1.00133.95	C
ATOM	715	CB	VAL	92	38.147	49.488	6.410	1.00133.95	C
ATOM	716	CG1	VAL	92	37.608	50.590	7.331	1.00133.95	C
ATOM	717	CG2	VAL	92	37.558	49.483	4.996	1.00133.95	C
ATOM	718	C	VAL	92	40.142	49.454	7.711	1.00133.95	C
ATOM	719	O	VAL	92	40.627	50.418	8.302	1.00133.95	O
ATOM	720	N	LEU	93	40.100	48.216	8.255	1.00170.48	N
ATOM	721	CA	LEU	93	40.460	48.027	9.632	1.00170.48	C
ATOM	722	CB	LEU	93	40.484	46.564	10.093	1.00170.48	C
ATOM	723	CG	LEU	93	39.080	46.022	10.351	1.00170.48	C
ATOM	724	CD1	LEU	93	38.445	46.756	11.541	1.00170.48	C
ATOM	725	CD2	LEU	93	38.230	46.090	9.079	1.00170.48	C
ATOM	726	C	LEU	93	41.833	48.552	9.875	1.00170.48	C
ATOM	727	O	LEU	93	42.049	49.295	10.831	1.00170.48	O
ATOM	728	N	VAL	94	42.798	48.210	9.009	1.00108.12	N
ATOM	729	CA	VAL	94	44.129	48.660	9.281	1.00108.12	C
ATOM	730	CB	VAL	94	45.152	48.091	8.336	1.00108.12	C
ATOM	731	CG1	VAL	94	45.181	46.565	8.526	1.00108.12	C
ATOM	732	CG2	VAL	94	44.828	48.522	6.899	1.00108.12	C
ATOM	733	C	VAL	94	44.210	50.166	9.239	1.00108.12	C

ATOM	734	O	VAL	94	44.709	50.791	10.173	1.00108.12	O
ATOM	735	N	ALA	95	43.700	50.786	8.157	1.00 55.25	N
ATOM	736	CA	ALA	95	43.790	52.208	7.932	1.00 55.25	C
ATOM	737	CB	ALA	95	43.303	52.609	6.530	1.00 55.25	C
ATOM	738	C	ALA	95	42.991	53.015	8.908	1.00 55.25	C
ATOM	739	O	ALA	95	43.405	54.109	9.293	1.00 55.25	O
ATOM	740	N	ALA	96	41.794	52.531	9.289	1.00 49.01	N
ATOM	741	CA	ALA	96	40.948	53.288	10.166	1.00 49.01	C
ATOM	742	CB	ALA	96	39.619	52.575	10.467	1.00 49.01	C
ATOM	743	C	ALA	96	41.672	53.457	11.455	1.00 49.01	C
ATOM	744	O	ALA	96	41.829	54.573	11.952	1.00 49.01	O
ATOM	745	N	TYR	97	42.230	52.344	11.962	1.00 64.78	N
ATOM	746	CA	TYR	97	42.910	52.349	13.218	1.00 64.78	C
ATOM	747	CB	TYR	97	43.539	50.987	13.556	1.00 64.78	C
ATOM	748	CG	TYR	97	44.385	51.183	14.764	1.00 64.78	C
ATOM	749	CD1	TYR	97	43.823	51.275	16.016	1.00 64.78	C
ATOM	750	CD2	TYR	97	45.751	51.266	14.635	1.00 64.78	C
ATOM	751	CE1	TYR	97	44.617	51.460	17.123	1.00 64.78	C
ATOM	752	CE2	TYR	97	46.550	51.450	15.736	1.00 64.78	C
ATOM	753	CZ	TYR	97	45.981	51.547	16.981	1.00 64.78	C
ATOM	754	OH	TYR	97	46.802	51.738	18.109	1.00 64.78	O
ATOM	755	C	TYR	97	44.000	53.362	13.116	1.00 64.78	C
ATOM	756	O	TYR	97	44.300	54.062	14.081	1.00 64.78	O
ATOM	757	N	ILE	98	44.640	53.453	11.938	1.00 59.90	N
ATOM	758	CA	ILE	98	45.707	54.397	11.776	1.00 59.90	C
ATOM	759	CB	ILE	98	46.415	54.258	10.466	1.00 59.90	C
ATOM	760	CG1	ILE	98	47.096	52.884	10.406	1.00 59.90	C
ATOM	761	CG2	ILE	98	47.394	55.436	10.314	1.00 59.90	C
ATOM	762	CD1	ILE	98	47.623	52.530	9.022	1.00 59.90	C
ATOM	763	C	ILE	98	45.211	55.814	11.896	1.00 59.90	C
ATOM	764	O	ILE	98	45.795	56.605	12.632	1.00 59.90	O
ATOM	765	N	GLN	99	44.092	56.170	11.231	1.00167.94	N
ATOM	766	CA	GLN	99	43.604	57.529	11.234	1.00167.94	C
ATOM	767	CB	GLN	99	42.206	57.672	10.599	1.00167.94	C
ATOM	768	CG	GLN	99	42.049	57.192	9.159	1.00167.94	C
ATOM	769	CD	GLN	99	40.591	57.422	8.767	1.00167.94	C
ATOM	770	OE1	GLN	99	40.070	56.779	7.857	1.00167.94	O
ATOM	771	NE2	GLN	99	39.911	58.369	9.467	1.00167.94	N
ATOM	772	C	GLN	99	43.346	57.949	12.649	1.00167.94	C
ATOM	773	O	GLN	99	43.519	59.109	13.011	1.00167.94	O
ATOM	774	N	VAL	100	42.838	57.028	13.474	1.00 67.32	N
ATOM	775	CA	VAL	100	42.519	57.330	14.839	1.00 67.32	C
ATOM	776	CB	VAL	100	41.789	56.198	15.503	1.00 67.32	C
ATOM	777	CG1	VAL	100	41.485	56.588	16.960	1.00 67.32	C
ATOM	778	CG2	VAL	100	40.545	55.863	14.664	1.00 67.32	C
ATOM	779	C	VAL	100	43.779	57.588	15.609	1.00 67.32	C
ATOM	780	O	VAL	100	43.813	58.423	16.512	1.00 67.32	O
ATOM	781	N	SER	101	44.850	56.848	15.280	1.00 48.55	N
ATOM	782	CA	SER	101	46.101	57.018	15.957	1.00 48.55	C
ATOM	783	CB	SER	101	47.189	56.071	15.428	1.00 48.55	C
ATOM	784	OG	SER	101	46.795	54.722	15.626	1.00 48.55	O
ATOM	785	C	SER	101	46.538	58.422	15.675	1.00 48.55	C
ATOM	786	O	SER	101	47.282	59.027	16.449	1.00 48.55	O
ATOM	787	N	PHE	102	46.085	58.968	14.530	1.00177.49	N
ATOM	788	CA	PHE	102	46.382	60.326	14.179	1.00177.49	C
ATOM	789	CB	PHE	102	45.661	60.790	12.888	1.00177.49	C
ATOM	790	CG	PHE	102	45.899	62.225	12.491	1.00177.49	C
ATOM	791	CD1	PHE	102	45.545	63.288	13.297	1.00177.49	C
ATOM	792	CD2	PHE	102	46.498	62.524	11.290	1.00177.49	C
ATOM	793	CE1	PHE	102	45.750	64.595	12.933	1.00177.49	C
ATOM	794	CE2	PHE	102	46.706	63.833	10.915	1.00177.49	C
ATOM	795	CZ	PHE	102	46.335	64.874	11.727	1.00177.49	C
ATOM	796	C	PHE	102	45.782	61.155	15.255	1.00177.49	C
ATOM	797	O	PHE	102	46.477	61.937	15.903	1.00177.49	O
ATOM	798	N	TRP	103	44.476	60.933	15.508	1.00139.05	N
ATOM	799	CA	TRP	103	43.732	61.814	16.354	1.00139.05	C
ATOM	800	CB	TRP	103	42.305	61.285	16.645	1.00139.05	C
ATOM	801	CG	TRP	103	41.471	62.073	17.643	1.00139.05	C
ATOM	802	CD2	TRP	103	40.093	62.430	17.433	1.00139.05	C
ATOM	803	CD1	TRP	103	41.818	62.606	18.852	1.00139.05	C
ATOM	804	NE1	TRP	103	40.750	63.264	19.407	1.00139.05	N
ATOM	805	CE2	TRP	103	39.682	63.169	18.543	1.00139.05	C
ATOM	806	CE3	TRP	103	39.245	62.181	16.391	1.00139.05	C
ATOM	807	CZ2	TRP	103	38.413	63.669	18.627	1.00139.05	C

ATOM	808	CZ3	TRP	103	37.962	62.675	16.487	1.00139.05	C
ATOM	809	CH2	TRP	103	37.554	63.405	17.584	1.00139.05	C
ATOM	810	C	TRP	103	44.427	62.034	17.659	1.00139.05	C
ATOM	811	O	TRP	103	44.945	63.121	17.899	1.00139.05	O
ATOM	812	N	CYS	104	44.529	61.003	18.503	1.00100.41	N
ATOM	813	CA	CYS	104	45.049	61.233	19.814	1.00100.41	C
ATOM	814	CB	CYS	104	44.749	60.088	20.786	1.00100.41	C
ATOM	815	SG	CYS	104	42.970	59.878	21.092	1.00100.41	S
ATOM	816	C	CYS	104	46.504	61.503	19.879	1.00100.41	C
ATOM	817	O	CYS	104	46.899	62.353	20.670	1.00100.41	O
ATOM	818	N	LEU	105	47.337	60.810	19.075	1.00120.31	N
ATOM	819	CA	LEU	105	48.753	60.980	19.249	1.00120.31	C
ATOM	820	CB	LEU	105	49.572	60.171	18.224	1.00120.31	C
ATOM	821	CG	LEU	105	51.082	60.054	18.526	1.00120.31	C
ATOM	822	CD1	LEU	105	51.793	59.234	17.440	1.00120.31	C
ATOM	823	CD2	LEU	105	51.756	61.413	18.763	1.00120.31	C
ATOM	824	C	LEU	105	49.012	62.431	19.037	1.00120.31	C
ATOM	825	O	LEU	105	49.629	63.089	19.877	1.00120.31	O
ATOM	826	N	ALA	106	48.450	62.988	17.952	1.00103.47	N
ATOM	827	CA	ALA	106	48.700	64.373	17.719	1.00103.47	C
ATOM	828	CB	ALA	106	48.142	64.844	16.368	1.00103.47	C
ATOM	829	C	ALA	106	48.098	65.261	18.768	1.00103.47	C
ATOM	830	O	ALA	106	48.809	65.818	19.598	1.00103.47	O
ATOM	831	N	ALA	107	46.760	65.266	18.884	1.00 77.68	N
ATOM	832	CA	ALA	107	46.075	66.207	19.727	1.00 77.68	C
ATOM	833	CB	ALA	107	44.553	65.990	19.734	1.00 77.68	C
ATOM	834	C	ALA	107	46.570	66.037	21.124	1.00 77.68	C
ATOM	835	O	ALA	107	46.736	67.001	21.868	1.00 77.68	O
ATOM	836	N	GLY	108	46.864	64.791	21.511	1.00 64.90	N
ATOM	837	CA	GLY	108	47.247	64.564	22.867	1.00 64.90	C
ATOM	838	C	GLY	108	48.472	65.361	23.218	1.00 64.90	C
ATOM	839	O	GLY	108	48.422	66.218	24.100	1.00 64.90	O
ATOM	840	N	ARG	109	49.583	65.175	22.481	1.00 95.32	N
ATOM	841	CA	ARG	109	50.806	65.841	22.845	1.00 95.32	C
ATOM	842	CB	ARG	109	51.997	65.410	21.974	1.00 95.32	C
ATOM	843	CG	ARG	109	52.372	63.949	22.217	1.00 95.32	C
ATOM	844	CD	ARG	109	53.725	63.530	21.647	1.00 95.32	C
ATOM	845	NE	ARG	109	54.019	62.183	22.212	1.00 95.32	N
ATOM	846	CZ	ARG	109	55.236	61.603	22.011	1.00 95.32	C
ATOM	847	NH1	ARG	109	56.170	62.226	21.234	1.00 95.32	N
ATOM	848	NH2	ARG	109	55.519	60.402	22.595	1.00 95.32	N
ATOM	849	C	ARG	109	50.626	67.314	22.701	1.00 95.32	C
ATOM	850	O	ARG	109	51.102	68.106	23.516	1.00 95.32	O
ATOM	851	N	GLN	110	49.891	67.714	21.656	1.00 80.27	N
ATOM	852	CA	GLN	110	49.708	69.104	21.368	1.00 80.27	C
ATOM	853	CB	GLN	110	48.727	69.315	20.204	1.00 80.27	C
ATOM	854	CG	GLN	110	49.215	68.791	18.855	1.00 80.27	C
ATOM	855	CD	GLN	110	49.973	69.922	18.184	1.00 80.27	C
ATOM	856	OE1	GLN	110	51.059	70.306	18.614	1.00 80.27	O
ATOM	857	NE2	GLN	110	49.373	70.484	17.101	1.00 80.27	N
ATOM	858	C	GLN	110	49.072	69.771	22.551	1.00 80.27	C
ATOM	859	O	GLN	110	49.457	70.872	22.944	1.00 80.27	O
ATOM	860	N	ILE	111	48.055	69.118	23.137	1.00130.91	N
ATOM	861	CA	ILE	111	47.334	69.694	24.233	1.00130.91	C
ATOM	862	CB	ILE	111	46.090	68.928	24.589	1.00130.91	C
ATOM	863	CG1	ILE	111	45.098	68.969	23.415	1.00130.91	C
ATOM	864	CG2	ILE	111	45.513	69.518	25.888	1.00130.91	C
ATOM	865	CD1	ILE	111	44.662	70.389	23.053	1.00130.91	C
ATOM	866	C	ILE	111	48.182	69.787	25.458	1.00130.91	C
ATOM	867	O	ILE	111	48.168	70.814	26.127	1.00130.91	O
ATOM	868	N	HIS	112	48.973	68.740	25.760	1.00105.65	N
ATOM	869	CA	HIS	112	49.738	68.655	26.975	1.00105.65	C
ATOM	870	ND1	HIS	112	50.573	66.405	29.225	1.00105.65	N
ATOM	871	CG	HIS	112	51.287	66.982	28.198	1.00105.65	C
ATOM	872	CB	HIS	112	50.673	67.432	26.906	1.00105.65	C
ATOM	873	NE2	HIS	112	52.705	66.402	29.854	1.00105.65	N
ATOM	874	CD2	HIS	112	52.587	66.975	28.600	1.00105.65	C
ATOM	875	CE1	HIS	112	51.469	66.076	30.189	1.00105.65	C
ATOM	876	C	HIS	112	50.558	69.903	27.064	1.00105.65	C
ATOM	877	O	HIS	112	50.579	70.583	28.092	1.00105.65	O
ATOM	878	N	LYS	113	51.211	70.267	25.950	1.00124.36	N
ATOM	879	CA	LYS	113	51.995	71.461	25.966	1.00124.36	C
ATOM	880	CB	LYS	113	52.818	71.655	24.688	1.00124.36	C
ATOM	881	CG	LYS	113	54.007	70.696	24.663	1.00124.36	C

ATOM	882	CD	LYS	113	54.695	70.578	23.310	1.00124.36	C
ATOM	883	CE	LYS	113	55.883	69.615	23.307	1.00124.36	C
ATOM	884	NZ	LYS	113	55.392	68.219	23.283	1.00124.36	N
ATOM	885	C	LYS	113	51.103	72.642	26.179	1.00124.36	C
ATOM	886	O	LYS	113	51.415	73.539	26.963	1.00124.36	O
ATOM	887	N	ILE	114	49.935	72.652	25.515	1.00129.33	N
ATOM	888	CA	ILE	114	49.072	73.790	25.639	1.00129.33	C
ATOM	889	CB	ILE	114	47.770	73.605	24.912	1.00129.33	C
ATOM	890	CG1	ILE	114	47.990	73.532	23.393	1.00129.33	C
ATOM	891	CG2	ILE	114	46.819	74.731	25.354	1.00129.33	C
ATOM	892	CD1	ILE	114	48.568	74.818	22.809	1.00129.33	C
ATOM	893	C	ILE	114	48.704	73.947	27.079	1.00129.33	C
ATOM	894	O	ILE	114	48.920	75.003	27.671	1.00129.33	O
ATOM	895	N	ARG	115	48.253	72.850	27.710	1.00142.41	N
ATOM	896	CA	ARG	115	47.700	72.902	29.022	1.00142.41	C
ATOM	897	CB	ARG	115	47.379	71.524	29.628	1.00142.41	C
ATOM	898	CG	ARG	115	46.204	70.795	28.980	1.00142.41	C
ATOM	899	CD	ARG	115	45.682	69.637	29.831	1.00142.41	C
ATOM	900	NE	ARG	115	44.547	69.008	29.100	1.00142.41	N
ATOM	901	CZ	ARG	115	43.285	69.513	29.214	1.00142.41	C
ATOM	902	NH1	ARG	115	43.059	70.620	29.980	1.00142.41	N
ATOM	903	NH2	ARG	115	42.251	68.918	28.551	1.00142.41	N
ATOM	904	C	ARG	115	48.653	73.551	29.973	1.00142.41	C
ATOM	905	O	ARG	115	48.279	74.494	30.664	1.00142.41	O
ATOM	906	N	LYS	116	49.926	73.124	29.992	1.00172.08	N
ATOM	907	CA	LYS	116	50.843	73.632	30.979	1.00172.08	C
ATOM	908	CB	LYS	116	52.256	73.054	30.796	1.00172.08	C
ATOM	909	CG	LYS	116	53.169	73.242	32.007	1.00172.08	C
ATOM	910	CD	LYS	116	52.813	72.298	33.154	1.00172.08	C
ATOM	911	CE	LYS	116	52.992	70.827	32.774	1.00172.08	C
ATOM	912	NZ	LYS	116	52.430	69.955	33.825	1.00172.08	N
ATOM	913	C	LYS	116	50.981	75.109	30.835	1.00172.08	C
ATOM	914	O	LYS	116	50.956	75.850	31.821	1.00172.08	O
ATOM	915	N	GLN	117	51.114	75.578	29.584	1.00102.23	N
ATOM	916	CA	GLN	117	51.349	76.978	29.401	1.00102.23	C
ATOM	917	CB	GLN	117	51.481	77.371	27.918	1.00102.23	C
ATOM	918	CG	GLN	117	52.731	76.811	27.236	1.00102.23	C
ATOM	919	CD	GLN	117	53.929	77.631	27.695	1.00102.23	C
ATOM	920	OE1	GLN	117	53.800	78.807	28.030	1.00102.23	O
ATOM	921	NE2	GLN	117	55.131	76.995	27.711	1.00102.23	N
ATOM	922	C	GLN	117	50.183	77.731	29.960	1.00102.23	C
ATOM	923	O	GLN	117	50.356	78.696	30.703	1.00102.23	O
ATOM	924	N	PHE	118	48.960	77.258	29.662	1.00174.64	N
ATOM	925	CA	PHE	118	47.752	77.949	30.023	1.00174.64	C
ATOM	926	CB	PHE	118	46.486	77.150	29.641	1.00174.64	C
ATOM	927	CG	PHE	118	45.306	78.063	29.503	1.00174.64	C
ATOM	928	CD1	PHE	118	45.132	79.155	30.321	1.00174.64	C
ATOM	929	CD2	PHE	118	44.395	77.855	28.489	1.00174.64	C
ATOM	930	CE1	PHE	118	44.046	79.987	30.156	1.00174.64	C
ATOM	931	CE2	PHE	118	43.307	78.682	28.319	1.00174.64	C
ATOM	932	CZ	PHE	118	43.128	79.751	29.160	1.00174.64	C
ATOM	933	C	PHE	118	47.686	78.044	31.521	1.00174.64	C
ATOM	934	O	PHE	118	47.384	79.104	32.068	1.00174.64	O
ATOM	935	N	PHE	119	47.989	76.932	32.226	1.00140.62	N
ATOM	936	CA	PHE	119	47.830	76.882	33.657	1.00140.62	C
ATOM	937	CB	PHE	119	48.348	75.559	34.261	1.00140.62	C
ATOM	938	CG	PHE	119	47.322	74.479	34.123	1.00140.62	C
ATOM	939	CD1	PHE	119	46.767	74.155	32.911	1.00140.62	C
ATOM	940	CD2	PHE	119	46.944	73.737	35.218	1.00140.62	C
ATOM	941	CE1	PHE	119	45.836	73.149	32.800	1.00140.62	C
ATOM	942	CE2	PHE	119	46.017	72.728	35.123	1.00140.62	C
ATOM	943	CZ	PHE	119	45.455	72.433	33.908	1.00140.62	C
ATOM	944	C	PHE	119	48.592	78.002	34.317	1.00140.62	C
ATOM	945	O	PHE	119	48.004	78.812	35.033	1.00140.62	O
ATOM	946	N	HIS	120	49.911	78.103	34.066	1.00105.36	N
ATOM	947	CA	HIS	120	50.743	79.136	34.637	1.00105.36	C
ATOM	948	ND1	HIS	120	53.705	80.294	35.811	1.00105.36	N
ATOM	949	CG	HIS	120	53.088	80.143	34.590	1.00105.36	C
ATOM	950	CB	HIS	120	52.213	78.986	34.205	1.00105.36	C
ATOM	951	NE2	HIS	120	54.285	82.057	34.582	1.00105.36	N
ATOM	952	CD2	HIS	120	53.453	81.228	33.852	1.00105.36	C
ATOM	953	CE1	HIS	120	54.408	81.455	35.751	1.00105.36	C
ATOM	954	C	HIS	120	50.272	80.447	34.124	1.00105.36	C
ATOM	955	O	HIS	120	50.327	81.461	34.822	1.00105.36	O

ATOM	956	N	ALA	121	49.818	80.463	32.861	1.00	93.82	N
ATOM	957	CA	ALA	121	49.426	81.725	32.312	1.00	93.82	C
ATOM	958	CB	ALA	121	48.934	81.612	30.860	1.00	93.82	C
ATOM	959	C	ALA	121	48.297	82.279	33.108	1.00	93.82	C
ATOM	960	O	ALA	121	48.405	83.406	33.591	1.00	93.82	O
ATOM	961	N	ILE	122	47.241	81.465	33.354	1.00	117.35	N
ATOM	962	CA	ILE	122	46.088	81.986	34.036	1.00	117.35	C
ATOM	963	CB	ILE	122	45.008	80.982	34.333	1.00	117.35	C
ATOM	964	CG1	ILE	122	44.341	80.473	33.048	1.00	117.35	C
ATOM	965	CG2	ILE	122	44.017	81.642	35.309	1.00	117.35	C
ATOM	966	CD1	ILE	122	43.343	79.345	33.305	1.00	117.35	C
ATOM	967	C	ILE	122	46.540	82.503	35.362	1.00	117.35	C
ATOM	968	O	ILE	122	46.211	83.621	35.737	1.00	117.35	O
ATOM	969	N	MET	123	47.397	81.750	36.062	1.00	136.04	N
ATOM	970	CA	MET	123	47.820	82.090	37.391	1.00	136.04	C
ATOM	971	CB	MET	123	48.730	81.030	38.030	1.00	136.04	C
ATOM	972	CG	MET	123	47.977	79.754	38.401	1.00	136.04	C
ATOM	973	SD	MET	123	46.715	79.994	39.687	1.00	136.04	S
ATOM	974	CE	MET	123	47.911	80.200	41.038	1.00	136.04	C
ATOM	975	C	MET	123	48.549	83.397	37.444	1.00	136.04	C
ATOM	976	O	MET	123	48.687	83.957	38.527	1.00	136.04	O
ATOM	977	N	ARG	124	49.212	83.806	36.350	1.00	164.84	N
ATOM	978	CA	ARG	124	49.893	85.074	36.252	1.00	164.84	C
ATOM	979	CB	ARG	124	51.082	85.039	35.279	1.00	164.84	C
ATOM	980	CG	ARG	124	51.836	86.368	35.217	1.00	164.84	C
ATOM	981	CD	ARG	124	53.168	86.290	34.469	1.00	164.84	C
ATOM	982	NE	ARG	124	54.097	85.467	35.296	1.00	164.84	N
ATOM	983	CZ	ARG	124	54.851	86.060	36.267	1.00	164.84	C
ATOM	984	NH1	ARG	124	54.737	87.401	36.497	1.00	164.84	N
ATOM	985	NH2	ARG	124	55.719	85.313	37.010	1.00	164.84	N
ATOM	986	C	ARG	124	49.022	86.232	35.853	1.00	164.84	C
ATOM	987	O	ARG	124	49.358	87.382	36.130	1.00	164.84	O
ATOM	988	N	GLN	125	47.892	85.964	35.176	1.00	140.05	N
ATOM	989	CA	GLN	125	47.060	86.963	34.549	1.00	140.05	C
ATOM	990	CB	GLN	125	45.781	86.366	33.921	1.00	140.05	C
ATOM	991	CG	GLN	125	44.882	87.402	33.235	1.00	140.05	C
ATOM	992	CD	GLN	125	43.655	86.697	32.660	1.00	140.05	C
ATOM	993	OE1	GLN	125	42.713	87.341	32.202	1.00	140.05	O
ATOM	994	NE2	GLN	125	43.663	85.338	32.679	1.00	140.05	N
ATOM	995	C	GLN	125	46.644	87.964	35.575	1.00	140.05	C
ATOM	996	O	GLN	125	46.284	89.092	35.237	1.00	140.05	O
ATOM	997	N	GLU	126	46.605	87.541	36.851	1.00	295.47	N
ATOM	998	CA	GLU	126	46.267	88.415	37.921	1.00	295.47	C
ATOM	999	CB	GLU	126	47.324	89.494	38.221	1.00	295.47	C
ATOM	1000	CG	GLU	126	48.390	89.028	39.224	1.00	295.47	C
ATOM	1001	CD	GLU	126	48.942	87.661	38.831	1.00	295.47	C
ATOM	1002	OE1	GLU	126	48.161	86.670	38.849	1.00	295.47	O
ATOM	1003	OE2	GLU	126	50.163	87.589	38.527	1.00	295.47	O
ATOM	1004	C	GLU	126	44.905	88.996	37.751	1.00	295.47	C
ATOM	1005	O	GLU	126	43.932	88.322	37.434	1.00	295.47	O
ATOM	1006	N	ILE	127	44.826	90.310	37.922	1.00	264.18	N
ATOM	1007	CA	ILE	127	43.633	91.078	38.008	1.00	264.18	C
ATOM	1008	CB	ILE	127	44.034	92.512	38.034	1.00	264.18	C
ATOM	1009	CG1	ILE	127	42.967	93.443	38.560	1.00	264.18	C
ATOM	1010	CG2	ILE	127	44.457	92.914	36.620	1.00	264.18	C
ATOM	1011	CD1	ILE	127	43.571	94.835	38.536	1.00	264.18	C
ATOM	1012	C	ILE	127	42.687	90.898	36.853	1.00	264.18	C
ATOM	1013	O	ILE	127	41.489	91.122	37.017	1.00	264.18	O
ATOM	1014	N	GLY	128	43.185	90.598	35.643	1.00	83.84	N
ATOM	1015	CA	GLY	128	42.352	90.449	34.478	1.00	83.84	C
ATOM	1016	C	GLY	128	41.421	89.307	34.689	1.00	83.84	C
ATOM	1017	O	GLY	128	40.328	89.236	34.129	1.00	83.84	O
ATOM	1018	N	TRP	129	41.895	88.358	35.492	1.00	198.13	N
ATOM	1019	CA	TRP	129	41.247	87.148	35.874	1.00	198.13	C
ATOM	1020	CB	TRP	129	42.249	86.306	36.690	1.00	198.13	C
ATOM	1021	CG	TRP	129	41.817	85.159	37.560	1.00	198.13	C
ATOM	1022	CD2	TRP	129	42.591	84.803	38.715	1.00	198.13	C
ATOM	1023	CD1	TRP	129	40.831	84.225	37.446	1.00	198.13	C
ATOM	1024	NE1	TRP	129	40.929	83.319	38.480	1.00	198.13	N
ATOM	1025	CE2	TRP	129	42.016	83.659	39.262	1.00	198.13	C
ATOM	1026	CE3	TRP	129	43.708	85.376	39.259	1.00	198.13	C
ATOM	1027	CZ2	TRP	129	42.551	83.067	40.372	1.00	198.13	C
ATOM	1028	CZ3	TRP	129	44.236	84.790	40.387	1.00	198.13	C
ATOM	1029	CH2	TRP	129	43.666	83.657	40.933	1.00	198.13	C

ATOM	1030	C	TRP	129	39.993	87.487	36.591	1.00198.13	C
ATOM	1031	O	TRP	129	39.113	86.644	36.722	1.00198.13	O
ATOM	1032	N	PHE	130	39.969	88.646	37.259	1.00145.60	N
ATOM	1033	CA	PHE	130	38.768	89.234	37.758	1.00145.60	C
ATOM	1034	CB	PHE	130	39.061	90.123	38.977	1.00145.60	C
ATOM	1035	CG	PHE	130	37.779	90.457	39.655	1.00145.60	C
ATOM	1036	CD1	PHE	130	37.249	89.599	40.591	1.00145.60	C
ATOM	1037	CD2	PHE	130	37.115	91.625	39.365	1.00145.60	C
ATOM	1038	CE1	PHE	130	36.068	89.900	41.226	1.00145.60	C
ATOM	1039	CE2	PHE	130	35.934	91.931	39.996	1.00145.60	C
ATOM	1040	CZ	PHE	130	35.409	91.068	40.928	1.00145.60	C
ATOM	1041	C	PHE	130	38.198	90.125	36.673	1.00145.60	C
ATOM	1042	O	PHE	130	36.986	90.280	36.542	1.00145.60	O
ATOM	1043	N	ASP	131	39.093	90.746	35.864	1.00135.95	N
ATOM	1044	CA	ASP	131	38.757	91.770	34.904	1.00135.95	C
ATOM	1045	CB	ASP	131	39.965	92.197	34.050	1.00135.95	C
ATOM	1046	CG	ASP	131	40.935	92.960	34.942	1.00135.95	C
ATOM	1047	OD1	ASP	131	40.546	93.287	36.092	1.00135.95	O
ATOM	1048	OD2	ASP	131	42.079	93.227	34.483	1.00135.95	O
ATOM	1049	C	ASP	131	37.709	91.314	33.978	1.00135.95	C
ATOM	1050	O	ASP	131	36.648	91.920	33.844	1.00135.95	O
ATOM	1051	N	VAL	132	37.956	90.199	33.318	1.00130.33	N
ATOM	1052	CA	VAL	132	36.919	89.766	32.466	1.00130.33	C
ATOM	1053	CB	VAL	132	37.305	89.727	31.017	1.00130.33	C
ATOM	1054	CG1	VAL	132	37.606	91.166	30.565	1.00130.33	C
ATOM	1055	CG2	VAL	132	38.494	88.769	30.845	1.00130.33	C
ATOM	1056	C	VAL	132	36.738	88.402	32.946	1.00130.33	C
ATOM	1057	O	VAL	132	37.184	88.069	34.042	1.00130.33	O
ATOM	1058	N	HIS	133	36.007	87.608	32.175	1.00340.38	N
ATOM	1059	CA	HIS	133	35.899	86.237	32.526	1.00340.38	C
ATOM	1060	ND1	HIS	133	38.522	85.211	30.797	1.00340.38	N
ATOM	1061	CG	HIS	133	38.409	85.740	32.063	1.00340.38	C
ATOM	1062	CB	HIS	133	37.220	85.560	32.969	1.00340.38	C
ATOM	1063	NE2	HIS	133	40.429	86.283	31.207	1.00340.38	N
ATOM	1064	CD2	HIS	133	39.583	86.392	32.297	1.00340.38	C
ATOM	1065	CE1	HIS	133	39.747	85.566	30.331	1.00340.38	C
ATOM	1066	C	HIS	133	34.928	86.045	33.650	1.00340.38	C
ATOM	1067	O	HIS	133	35.077	86.601	34.738	1.00340.38	O
ATOM	1068	N	ASP	134	33.913	85.194	33.407	1.00119.80	N
ATOM	1069	CA	ASP	134	32.964	84.840	34.418	1.00119.80	C
ATOM	1070	CB	ASP	134	31.855	83.900	33.915	1.00119.80	C
ATOM	1071	CG	ASP	134	30.963	84.679	32.957	1.00119.80	C
ATOM	1072	OD1	ASP	134	31.256	85.881	32.719	1.00119.80	O
ATOM	1073	OD2	ASP	134	29.975	84.083	32.452	1.00119.80	O
ATOM	1074	C	ASP	134	33.761	84.098	35.439	1.00119.80	C
ATOM	1075	O	ASP	134	33.358	83.948	36.591	1.00119.80	O
ATOM	1076	N	VAL	135	34.900	83.548	34.981	1.00169.52	N
ATOM	1077	CA	VAL	135	35.859	82.796	35.744	1.00169.52	C
ATOM	1078	CB	VAL	135	36.130	83.392	37.094	1.00169.52	C
ATOM	1079	CG1	VAL	135	37.036	82.424	37.874	1.00169.52	C
ATOM	1080	CG2	VAL	135	36.733	84.794	36.902	1.00169.52	C
ATOM	1081	C	VAL	135	35.272	81.437	35.955	1.00169.52	C
ATOM	1082	O	VAL	135	36.001	80.446	36.013	1.00169.52	O
ATOM	1083	N	GLY	136	33.928	81.363	36.073	1.00 73.98	N
ATOM	1084	CA	GLY	136	33.255	80.104	36.103	1.00 73.98	C
ATOM	1085	C	GLY	136	33.313	79.629	34.699	1.00 73.98	C
ATOM	1086	O	GLY	136	33.672	78.491	34.408	1.00 73.98	O
ATOM	1087	N	GLU	137	32.992	80.562	33.782	1.00156.66	N
ATOM	1088	CA	GLU	137	32.997	80.280	32.386	1.00156.66	C
ATOM	1089	CB	GLU	137	32.492	81.451	31.515	1.00156.66	C
ATOM	1090	CG	GLU	137	33.301	82.748	31.616	1.00156.66	C
ATOM	1091	CD	GLU	137	34.407	82.740	30.570	1.00156.66	C
ATOM	1092	OE1	GLU	137	34.088	82.563	29.363	1.00156.66	O
ATOM	1093	OE2	GLU	137	35.588	82.920	30.968	1.00156.66	O
ATOM	1094	C	GLU	137	34.414	79.970	32.013	1.00156.66	C
ATOM	1095	O	GLU	137	34.635	79.180	31.101	1.00156.66	O
ATOM	1096	N	LEU	138	35.396	80.607	32.696	1.00193.07	N
ATOM	1097	CA	LEU	138	36.820	80.513	32.419	1.00193.07	C
ATOM	1098	CB	LEU	138	37.647	81.520	33.263	1.00193.07	C
ATOM	1099	CG	LEU	138	39.177	81.617	32.987	1.00193.07	C
ATOM	1100	CD1	LEU	138	39.784	82.801	33.755	1.00193.07	C
ATOM	1101	CD2	LEU	138	39.968	80.337	33.319	1.00193.07	C
ATOM	1102	C	LEU	138	37.386	79.153	32.640	1.00193.07	C
ATOM	1103	O	LEU	138	37.961	78.602	31.714	1.00193.07	O

ATOM	1104	N	ASN	139	37.257	78.557	33.839	1.00113.08	N
ATOM	1105	CA	ASN	139	37.849	77.263	34.048	1.00113.08	C
ATOM	1106	CB	ASN	139	37.646	76.704	35.469	1.00113.08	C
ATOM	1107	CG	ASN	139	36.157	76.625	35.758	1.00113.08	C
ATOM	1108	OD1	ASN	139	35.552	77.593	36.213	1.00113.08	O
ATOM	1109	ND2	ASN	139	35.546	75.444	35.476	1.00113.08	N
ATOM	1110	C	ASN	139	37.128	76.372	33.121	1.00113.08	C
ATOM	1111	O	ASN	139	37.716	75.464	32.537	1.00113.08	O
ATOM	1112	N	THR	140	35.821	76.653	32.952	1.00 78.00	N
ATOM	1113	CA	THR	140	35.028	75.871	32.067	1.00 78.00	C
ATOM	1114	CB	THR	140	33.631	76.385	31.889	1.00 78.00	C
ATOM	1115	OG1	THR	140	32.943	76.376	33.130	1.00 78.00	O
ATOM	1116	CG2	THR	140	32.904	75.488	30.874	1.00 78.00	C
ATOM	1117	C	THR	140	35.721	75.972	30.755	1.00 78.00	C
ATOM	1118	O	THR	140	35.879	74.966	30.076	1.00 78.00	O
ATOM	1119	N	ARG	141	36.194	77.188	30.412	1.00281.45	N
ATOM	1120	CA	ARG	141	36.917	77.481	29.201	1.00281.45	C
ATOM	1121	CB	ARG	141	37.342	78.949	29.064	1.00281.45	C
ATOM	1122	CG	ARG	141	36.216	79.965	29.000	1.00281.45	C
ATOM	1123	CD	ARG	141	36.743	81.389	28.831	1.00281.45	C
ATOM	1124	NE	ARG	141	37.247	81.508	27.436	1.00281.45	N
ATOM	1125	CZ	ARG	141	36.386	81.808	26.420	1.00281.45	C
ATOM	1126	NH1	ARG	141	35.066	82.035	26.684	1.00281.45	N
ATOM	1127	NH2	ARG	141	36.847	81.870	25.137	1.00281.45	N
ATOM	1128	C	ARG	141	38.237	76.771	29.185	1.00281.45	C
ATOM	1129	O	ARG	141	38.700	76.373	28.126	1.00281.45	O
ATOM	1130	N	LEU	142	38.930	76.644	30.330	1.00169.73	N
ATOM	1131	CA	LEU	142	40.229	76.039	30.280	1.00169.73	C
ATOM	1132	CB	LEU	142	40.885	75.954	31.675	1.00169.73	C
ATOM	1133	CG	LEU	142	42.286	75.301	31.718	1.00169.73	C
ATOM	1134	CD1	LEU	142	42.238	73.780	31.522	1.00169.73	C
ATOM	1135	CD2	LEU	142	43.242	75.990	30.728	1.00169.73	C
ATOM	1136	C	LEU	142	40.043	74.652	29.770	1.00169.73	C
ATOM	1137	O	LEU	142	40.641	74.285	28.766	1.00169.73	O
ATOM	1138	N	THR	143	39.179	73.856	30.421	1.00163.99	N
ATOM	1139	CA	THR	143	38.984	72.504	29.979	1.00163.99	C
ATOM	1140	CB	THR	143	38.211	71.679	30.960	1.00163.99	C
ATOM	1141	OG1	THR	143	36.922	72.236	31.166	1.00163.99	O
ATOM	1142	CG2	THR	143	38.995	71.642	32.281	1.00163.99	C
ATOM	1143	C	THR	143	38.249	72.471	28.683	1.00163.99	C
ATOM	1144	O	THR	143	38.674	71.805	27.745	1.00163.99	O
ATOM	1145	N	ASP	144	37.141	73.226	28.591	1.00143.23	N
ATOM	1146	CA	ASP	144	36.279	73.183	27.445	1.00143.23	C
ATOM	1147	CB	ASP	144	35.081	74.141	27.580	1.00143.23	C
ATOM	1148	CG	ASP	144	34.054	73.797	26.508	1.00143.23	C
ATOM	1149	OD1	ASP	144	33.976	72.597	26.130	1.00143.23	O
ATOM	1150	OD2	ASP	144	33.341	74.730	26.049	1.00143.23	O
ATOM	1151	C	ASP	144	37.046	73.611	26.234	1.00143.23	C
ATOM	1152	O	ASP	144	37.012	72.924	25.218	1.00143.23	O
ATOM	1153	N	ASP	145	37.754	74.757	26.311	1.00114.41	N
ATOM	1154	CA	ASP	145	38.481	75.279	25.192	1.00114.41	C
ATOM	1155	CB	ASP	145	39.061	76.682	25.429	1.00114.41	C
ATOM	1156	CG	ASP	145	37.892	77.650	25.544	1.00114.41	C
ATOM	1157	OD1	ASP	145	36.725	77.175	25.534	1.00114.41	O
ATOM	1158	OD2	ASP	145	38.152	78.878	25.646	1.00114.41	O
ATOM	1159	C	ASP	145	39.615	74.375	24.867	1.00114.41	C
ATOM	1160	O	ASP	145	39.737	73.973	23.715	1.00114.41	O
ATOM	1161	N	VAL	146	40.425	73.975	25.878	1.00180.83	N
ATOM	1162	CA	VAL	146	41.570	73.151	25.601	1.00180.83	C
ATOM	1163	CB	VAL	146	42.365	72.704	26.796	1.00180.83	C
ATOM	1164	CG1	VAL	146	42.995	73.944	27.432	1.00180.83	C
ATOM	1165	CG2	VAL	146	41.483	71.883	27.745	1.00180.83	C
ATOM	1166	C	VAL	146	41.062	71.930	24.900	1.00180.83	C
ATOM	1167	O	VAL	146	41.618	71.529	23.881	1.00180.83	O
ATOM	1168	N	SER	147	39.939	71.369	25.390	1.00102.17	N
ATOM	1169	CA	SER	147	39.316	70.199	24.834	1.00102.17	C
ATOM	1170	CB	SER	147	38.093	69.740	25.647	1.00102.17	C
ATOM	1171	OG	SER	147	38.493	69.353	26.955	1.00102.17	O
ATOM	1172	C	SER	147	38.845	70.485	23.426	1.00102.17	C
ATOM	1173	O	SER	147	39.081	69.692	22.519	1.00102.17	O
ATOM	1174	N	LYS	148	38.206	71.648	23.186	1.00110.65	N
ATOM	1175	CA	LYS	148	37.632	71.997	21.913	1.00110.65	C
ATOM	1176	CB	LYS	148	37.011	73.404	21.928	1.00110.65	C
ATOM	1177	CG	LYS	148	36.285	73.794	20.638	1.00110.65	C

ATOM	1178	CD	LYS	148	35.426	75.052	20.796	1.00110.65	C
ATOM	1179	CE	LYS	148	34.684	75.471	19.526	1.00110.65	C
ATOM	1180	NZ	LYS	148	33.885	76.689	19.792	1.00110.65	N
ATOM	1181	C	LYS	148	38.733	71.993	20.903	1.00110.65	C
ATOM	1182	O	LYS	148	38.511	71.697	19.729	1.00110.65	O
ATOM	1183	N	ILE	149	39.946	72.372	21.339	1.00143.51	N
ATOM	1184	CA	ILE	149	41.090	72.394	20.487	1.00143.51	C
ATOM	1185	CB	ILE	149	42.303	72.869	21.218	1.00143.51	C
ATOM	1186	CG1	ILE	149	41.902	74.093	22.047	1.00143.51	C
ATOM	1187	CG2	ILE	149	43.423	73.137	20.200	1.00143.51	C
ATOM	1188	CD1	ILE	149	40.939	75.021	21.311	1.00143.51	C
ATOM	1189	C	ILE	149	41.328	70.970	20.106	1.00143.51	C
ATOM	1190	O	ILE	149	41.506	70.640	18.934	1.00143.51	O
ATOM	1191	N	ASN	150	41.261	70.082	21.116	1.00 90.97	N
ATOM	1192	CA	ASN	150	41.531	68.686	20.956	1.00 90.97	C
ATOM	1193	CB	ASN	150	41.311	67.917	22.272	1.00 90.97	C
ATOM	1194	CG	ASN	150	42.025	66.575	22.194	1.00 90.97	C
ATOM	1195	OD1	ASN	150	41.769	65.771	21.300	1.00 90.97	O
ATOM	1196	ND2	ASN	150	42.954	66.328	23.158	1.00 90.97	N
ATOM	1197	C	ASN	150	40.585	68.155	19.923	1.00 90.97	C
ATOM	1198	O	ASN	150	40.999	67.539	18.943	1.00 90.97	O
ATOM	1199	N	GLU	151	39.286	68.461	20.067	1.00105.52	N
ATOM	1200	CA	GLU	151	38.301	67.949	19.162	1.00105.52	C
ATOM	1201	CB	GLU	151	36.895	68.481	19.489	1.00105.52	C
ATOM	1202	CG	GLU	151	35.778	67.854	18.657	1.00105.52	C
ATOM	1203	CD	GLU	151	34.464	68.486	19.101	1.00105.52	C
ATOM	1204	OE1	GLU	151	34.506	69.360	20.008	1.00105.52	O
ATOM	1205	OE2	GLU	151	33.404	68.111	18.534	1.00105.52	O
ATOM	1206	C	GLU	151	38.678	68.434	17.797	1.00105.52	C
ATOM	1207	O	GLU	151	38.595	67.689	16.826	1.00105.52	O
ATOM	1208	N	GLY	152	39.174	69.683	17.691	1.00 56.95	N
ATOM	1209	CA	GLY	152	39.477	70.254	16.415	1.00 56.95	C
ATOM	1210	C	GLY	152	40.471	69.395	15.690	1.00 56.95	C
ATOM	1211	O	GLY	152	40.343	69.191	14.484	1.00 56.95	O
ATOM	1212	N	ILE	153	41.510	68.900	16.387	1.00100.92	N
ATOM	1213	CA	ILE	153	42.550	68.154	15.728	1.00100.92	C
ATOM	1214	CB	ILE	153	43.739	68.023	16.622	1.00100.92	C
ATOM	1215	CG1	ILE	153	44.187	69.443	17.003	1.00100.92	C
ATOM	1216	CG2	ILE	153	44.823	67.206	15.896	1.00100.92	C
ATOM	1217	CD1	ILE	153	45.098	69.502	18.219	1.00100.92	C
ATOM	1218	C	ILE	153	42.139	66.775	15.243	1.00100.92	C
ATOM	1219	O	ILE	153	42.296	66.466	14.062	1.00100.92	O
ATOM	1220	N	GLY	154	41.590	65.908	16.124	1.00 68.60	N
ATOM	1221	CA	GLY	154	41.233	64.556	15.761	1.00 68.60	C
ATOM	1222	C	GLY	154	40.102	64.521	14.771	1.00 68.60	C
ATOM	1223	O	GLY	154	40.111	63.692	13.867	1.00 68.60	O
ATOM	1224	N	ASP	155	39.060	65.363	14.928	1.00152.47	N
ATOM	1225	CA	ASP	155	37.965	65.314	13.995	1.00152.47	C
ATOM	1226	CB	ASP	155	36.639	65.950	14.469	1.00152.47	C
ATOM	1227	CG	ASP	155	36.793	67.415	14.810	1.00152.47	C
ATOM	1228	OD1	ASP	155	37.782	68.047	14.355	1.00152.47	O
ATOM	1229	OD2	ASP	155	35.931	67.913	15.581	1.00152.47	O
ATOM	1230	C	ASP	155	38.396	65.838	12.669	1.00152.47	C
ATOM	1231	O	ASP	155	37.931	65.343	11.647	1.00152.47	O
ATOM	1232	N	LYS	156	39.333	66.805	12.647	1.00155.76	N
ATOM	1233	CA	LYS	156	39.826	67.357	11.418	1.00155.76	C
ATOM	1234	CB	LYS	156	41.096	68.186	11.605	1.00155.76	C
ATOM	1235	CG	LYS	156	41.753	68.497	10.262	1.00155.76	C
ATOM	1236	CD	LYS	156	43.188	68.987	10.411	1.00155.76	C
ATOM	1237	CE	LYS	156	44.063	67.943	11.114	1.00155.76	C
ATOM	1238	NZ	LYS	156	43.637	66.576	10.722	1.00155.76	N
ATOM	1239	C	LYS	156	40.302	66.198	10.611	1.00155.76	C
ATOM	1240	O	LYS	156	40.164	66.170	9.388	1.00155.76	O
ATOM	1241	N	ILE	157	40.877	65.194	11.295	1.00131.15	N
ATOM	1242	CA	ILE	157	41.406	64.103	10.544	1.00131.15	C
ATOM	1243	CB	ILE	157	42.110	63.060	11.369	1.00131.15	C
ATOM	1244	CG1	ILE	157	41.203	62.008	12.036	1.00131.15	C
ATOM	1245	CG2	ILE	157	42.820	63.903	12.430	1.00131.15	C
ATOM	1246	CD1	ILE	157	40.753	60.866	11.122	1.00131.15	C
ATOM	1247	C	ILE	157	40.238	63.470	9.864	1.00131.15	C
ATOM	1248	O	ILE	157	40.270	63.228	8.661	1.00131.15	O
ATOM	1249	N	GLY	158	39.129	63.284	10.607	1.00 49.12	N
ATOM	1250	CA	GLY	158	37.972	62.604	10.097	1.00 49.12	C
ATOM	1251	C	GLY	158	37.543	63.257	8.821	1.00 49.12	C

ATOM	1252	O	GLY	158	37.268	62.571	7.838	1.00	49.12	O
ATOM	1253	N	MET	159	37.518	64.600	8.790	1.00	140.15	N
ATOM	1254	CA	MET	159	37.114	65.316	7.617	1.00	140.15	C
ATOM	1255	CB	MET	159	37.152	66.836	7.833	1.00	140.15	C
ATOM	1256	CG	MET	159	37.564	67.599	6.575	1.00	140.15	C
ATOM	1257	SD	MET	159	36.489	67.371	5.137	1.00	140.15	S
ATOM	1258	CE	MET	159	37.540	68.374	4.048	1.00	140.15	C
ATOM	1259	C	MET	159	38.004	65.011	6.456	1.00	140.15	C
ATOM	1260	O	MET	159	37.508	64.651	5.391	1.00	140.15	O
ATOM	1261	N	PHE	160	39.334	65.047	6.658	1.00	131.81	N
ATOM	1262	CA	PHE	160	40.292	64.911	5.590	1.00	131.81	C
ATOM	1263	CB	PHE	160	41.721	64.780	6.141	1.00	131.81	C
ATOM	1264	CG	PHE	160	42.676	65.041	5.032	1.00	131.81	C
ATOM	1265	CD1	PHE	160	42.967	64.068	4.106	1.00	131.81	C
ATOM	1266	CD2	PHE	160	43.287	66.270	4.935	1.00	131.81	C
ATOM	1267	CE1	PHE	160	43.853	64.323	3.086	1.00	131.81	C
ATOM	1268	CE2	PHE	160	44.173	66.529	3.918	1.00	131.81	C
ATOM	1269	CZ	PHE	160	44.456	65.555	2.991	1.00	131.81	C
ATOM	1270	C	PHE	160	39.948	63.640	4.890	1.00	131.81	C
ATOM	1271	O	PHE	160	39.772	63.613	3.671	1.00	131.81	O
ATOM	1272	N	PHE	161	39.707	62.591	5.691	1.00	105.26	N
ATOM	1273	CA	PHE	161	39.319	61.323	5.165	1.00	105.26	C
ATOM	1274	CB	PHE	161	39.016	60.345	6.318	1.00	105.26	C
ATOM	1275	CG	PHE	161	37.979	59.356	5.915	1.00	105.26	C
ATOM	1276	CD1	PHE	161	38.151	58.515	4.845	1.00	105.26	C
ATOM	1277	CD2	PHE	161	36.829	59.252	6.665	1.00	105.26	C
ATOM	1278	CE1	PHE	161	37.165	57.613	4.519	1.00	105.26	C
ATOM	1279	CE2	PHE	161	35.845	58.349	6.341	1.00	105.26	C
ATOM	1280	CZ	PHE	161	36.011	57.525	5.257	1.00	105.26	C
ATOM	1281	C	PHE	161	38.110	61.479	4.280	1.00	105.26	C
ATOM	1282	O	PHE	161	38.157	61.148	3.099	1.00	105.26	O
ATOM	1283	N	GLN	162	37.011	62.060	4.785	1.00	59.38	N
ATOM	1284	CA	GLN	162	35.808	62.153	3.996	1.00	59.38	C
ATOM	1285	CB	GLN	162	34.626	62.762	4.769	1.00	59.38	C
ATOM	1286	CG	GLN	162	34.046	61.841	5.844	1.00	59.38	C
ATOM	1287	CD	GLN	162	33.206	60.781	5.144	1.00	59.38	C
ATOM	1288	OE1	GLN	162	33.335	60.562	3.940	1.00	59.38	O
ATOM	1289	NE2	GLN	162	32.317	60.103	5.917	1.00	59.38	N
ATOM	1290	C	GLN	162	36.029	63.015	2.794	1.00	59.38	C
ATOM	1291	O	GLN	162	35.510	62.726	1.717	1.00	59.38	O
ATOM	1292	N	SER	163	36.822	64.091	2.940	1.00	82.89	N
ATOM	1293	CA	SER	163	37.012	65.019	1.867	1.00	82.89	C
ATOM	1294	CB	SER	163	38.032	66.118	2.209	1.00	82.89	C
ATOM	1295	OG	SER	163	38.179	67.011	1.115	1.00	82.89	O
ATOM	1296	C	SER	163	37.530	64.250	0.688	1.00	82.89	C
ATOM	1297	O	SER	163	37.204	64.560	-0.456	1.00	82.89	O
ATOM	1298	N	MET	164	38.389	63.248	0.950	1.00	111.70	N
ATOM	1299	CA	MET	164	38.973	62.381	-0.043	1.00	111.70	C
ATOM	1300	CB	MET	164	40.146	61.579	0.536	1.00	111.70	C
ATOM	1301	CG	MET	164	41.324	62.443	0.989	1.00	111.70	C
ATOM	1302	SD	MET	164	42.247	63.244	-0.357	1.00	111.70	S
ATOM	1303	CE	MET	164	40.952	64.450	-0.752	1.00	111.70	C
ATOM	1304	C	MET	164	38.010	61.381	-0.611	1.00	111.70	C
ATOM	1305	O	MET	164	38.073	61.060	-1.796	1.00	111.70	O
ATOM	1306	N	ALA	165	37.124	60.811	0.227	1.00	44.34	N
ATOM	1307	CA	ALA	165	36.232	59.803	-0.270	1.00	44.34	C
ATOM	1308	CB	ALA	165	35.286	59.254	0.813	1.00	44.34	C
ATOM	1309	C	ALA	165	35.396	60.467	-1.300	1.00	44.34	C
ATOM	1310	O	ALA	165	35.091	59.883	-2.336	1.00	44.34	O
ATOM	1311	N	THR	166	34.987	61.712	-1.005	1.00	84.80	N
ATOM	1312	CA	THR	166	34.184	62.523	-1.870	1.00	84.80	C
ATOM	1313	CB	THR	166	33.991	63.890	-1.287	1.00	84.80	C
ATOM	1314	OG1	THR	166	33.415	63.842	0.007	1.00	84.80	O
ATOM	1315	CG2	THR	166	33.122	64.700	-2.247	1.00	84.80	C
ATOM	1316	C	THR	166	34.944	62.833	-3.115	1.00	84.80	C
ATOM	1317	O	THR	166	34.510	62.549	-4.230	1.00	84.80	O
ATOM	1318	N	PHE	167	36.138	63.418	-2.927	1.00	116.64	N
ATOM	1319	CA	PHE	167	36.866	63.928	-4.044	1.00	116.64	C
ATOM	1320	CB	PHE	167	38.194	64.578	-3.619	1.00	116.64	C
ATOM	1321	CG	PHE	167	38.772	65.250	-4.815	1.00	116.64	C
ATOM	1322	CD1	PHE	167	39.611	64.576	-5.671	1.00	116.64	C
ATOM	1323	CD2	PHE	167	38.462	66.563	-5.080	1.00	116.64	C
ATOM	1324	CE1	PHE	167	40.138	65.207	-6.774	1.00	116.64	C
ATOM	1325	CE2	PHE	167	38.985	67.199	-6.181	1.00	116.64	C

ATOM	1326	CZ	PHE	167	39.825	66.521	-7.030	1.00116.64	C
ATOM	1327	C	PHE	167	37.173	62.814	-4.986	1.00116.64	C
ATOM	1328	O	PHE	167	36.782	62.846	-6.150	1.00116.64	O
ATOM	1329	N	PHE	168	37.839	61.767	-4.478	1.00 78.85	N
ATOM	1330	CA	PHE	168	38.250	60.647	-5.268	1.00 78.85	C
ATOM	1331	CB	PHE	168	39.167	59.674	-4.508	1.00 78.85	C
ATOM	1332	CG	PHE	168	40.492	60.337	-4.377	1.00 78.85	C
ATOM	1333	CD1	PHE	168	41.364	60.343	-5.441	1.00 78.85	C
ATOM	1334	CD2	PHE	168	40.866	60.944	-3.202	1.00 78.85	C
ATOM	1335	CE1	PHE	168	42.593	60.951	-5.335	1.00 78.85	C
ATOM	1336	CE2	PHE	168	42.093	61.553	-3.091	1.00 78.85	C
ATOM	1337	CZ	PHE	168	42.959	61.558	-4.158	1.00 78.85	C
ATOM	1338	C	PHE	168	37.069	59.876	-5.749	1.00 78.85	C
ATOM	1339	O	PHE	168	37.118	59.350	-6.853	1.00 78.85	O
ATOM	1340	N	THR	169	35.994	59.716	-4.951	1.00147.61	N
ATOM	1341	CA	THR	169	34.926	58.922	-5.498	1.00147.61	C
ATOM	1342	CB	THR	169	33.729	58.668	-4.591	1.00147.61	C
ATOM	1343	OG1	THR	169	32.789	57.867	-5.291	1.00147.61	O
ATOM	1344	CG2	THR	169	33.029	59.957	-4.111	1.00147.61	C
ATOM	1345	C	THR	169	34.395	59.568	-6.735	1.00147.61	C
ATOM	1346	O	THR	169	34.520	59.019	-7.827	1.00147.61	O
ATOM	1347	N	GLY	170	33.931	60.822	-6.605	1.00 57.25	N
ATOM	1348	CA	GLY	170	33.273	61.513	-7.660	1.00 57.25	C
ATOM	1349	C	GLY	170	34.223	61.563	-8.793	1.00 57.25	C
ATOM	1350	O	GLY	170	33.816	61.706	-9.940	1.00 57.25	O
ATOM	1351	N	PHE	171	35.525	61.620	-8.487	1.00121.69	N
ATOM	1352	CA	PHE	171	36.486	61.607	-9.543	1.00121.69	C
ATOM	1353	CB	PHE	171	37.866	62.075	-9.045	1.00121.69	C
ATOM	1354	CG	PHE	171	38.822	62.045	-10.185	1.00121.69	C
ATOM	1355	CD1	PHE	171	38.763	63.003	-11.170	1.00121.69	C
ATOM	1356	CD2	PHE	171	39.791	61.071	-10.256	1.00121.69	C
ATOM	1357	CE1	PHE	171	39.647	62.981	-12.222	1.00121.69	C
ATOM	1358	CE2	PHE	171	40.679	61.044	-11.306	1.00121.69	C
ATOM	1359	CZ	PHE	171	40.606	61.999	-12.292	1.00121.69	C
ATOM	1360	C	PHE	171	36.650	60.262	-10.178	1.00121.69	C
ATOM	1361	O	PHE	171	36.171	60.038	-11.281	1.00121.69	O
ATOM	1362	N	ILE	172	37.167	59.278	-9.418	1.00 76.04	N
ATOM	1363	CA	ILE	172	37.598	58.016	-9.946	1.00 76.04	C
ATOM	1364	CB	ILE	172	38.010	57.069	-8.861	1.00 76.04	C
ATOM	1365	CG1	ILE	172	39.210	57.649	-8.094	1.00 76.04	C
ATOM	1366	CG2	ILE	172	38.278	55.695	-9.498	1.00 76.04	C
ATOM	1367	CD1	ILE	172	39.481	56.953	-6.763	1.00 76.04	C
ATOM	1368	C	ILE	172	36.458	57.405	-10.677	1.00 76.04	C
ATOM	1369	O	ILE	172	36.568	57.129	-11.868	1.00 76.04	O
ATOM	1370	N	VAL	173	35.308	57.233	-10.015	1.00120.01	N
ATOM	1371	CA	VAL	173	34.185	56.694	-10.720	1.00120.01	C
ATOM	1372	CB	VAL	173	33.086	56.240	-9.801	1.00120.01	C
ATOM	1373	CG1	VAL	173	33.623	55.082	-8.943	1.00120.01	C
ATOM	1374	CG2	VAL	173	32.591	57.438	-8.974	1.00120.01	C
ATOM	1375	C	VAL	173	33.619	57.728	-11.640	1.00120.01	C
ATOM	1376	O	VAL	173	33.325	57.461	-12.803	1.00120.01	O
ATOM	1377	N	GLY	174	33.532	58.974	-11.146	1.00 88.81	N
ATOM	1378	CA	GLY	174	32.837	60.025	-11.820	1.00 88.81	C
ATOM	1379	C	GLY	174	33.391	60.263	-13.177	1.00 88.81	C
ATOM	1380	O	GLY	174	32.699	60.842	-13.999	1.00 88.81	O
ATOM	1381	N	PHE	175	34.696	60.103	-13.409	1.00128.64	N
ATOM	1382	CA	PHE	175	35.199	60.141	-14.749	1.00128.64	C
ATOM	1383	CB	PHE	175	36.538	60.892	-14.808	1.00128.64	C
ATOM	1384	CG	PHE	175	36.887	61.116	-16.235	1.00128.64	C
ATOM	1385	CD1	PHE	175	36.338	62.174	-16.922	1.00128.64	C
ATOM	1386	CD2	PHE	175	37.767	60.282	-16.883	1.00128.64	C
ATOM	1387	CE1	PHE	175	36.656	62.394	-18.241	1.00128.64	C
ATOM	1388	CE2	PHE	175	38.089	60.496	-18.202	1.00128.64	C
ATOM	1389	CZ	PHE	175	37.533	61.552	-18.883	1.00128.64	C
ATOM	1390	C	PHE	175	35.420	58.781	-15.363	1.00128.64	C
ATOM	1391	O	PHE	175	34.933	58.467	-16.448	1.00128.64	O
ATOM	1392	N	THR	176	36.117	57.895	-14.617	1.00129.97	N
ATOM	1393	CA	THR	176	36.673	56.717	-15.226	1.00129.97	C
ATOM	1394	CB	THR	176	37.547	55.866	-14.333	1.00129.97	C
ATOM	1395	OG1	THR	176	38.396	55.068	-15.142	1.00129.97	O
ATOM	1396	CG2	THR	176	36.688	54.924	-13.469	1.00129.97	C
ATOM	1397	C	THR	176	35.617	55.840	-15.792	1.00129.97	C
ATOM	1398	O	THR	176	35.777	55.326	-16.897	1.00129.97	O
ATOM	1399	N	ARG	177	34.498	55.642	-15.081	1.00137.63	N

ATOM	1400	CA	ARG	177	33.581	54.697	-15.631	1.00137.63	C
ATOM	1401	CB	ARG	177	32.918	53.804	-14.573	1.00137.63	C
ATOM	1402	CG	ARG	177	33.899	52.863	-13.875	1.00137.63	C
ATOM	1403	CD	ARG	177	34.080	51.520	-14.587	1.00137.63	C
ATOM	1404	NE	ARG	177	34.857	51.754	-15.836	1.00137.63	N
ATOM	1405	CZ	ARG	177	34.206	52.011	-17.009	1.00137.63	C
ATOM	1406	NH1	ARG	177	32.843	52.069	-17.035	1.00137.63	N
ATOM	1407	NH2	ARG	177	34.916	52.213	-18.157	1.00137.63	N
ATOM	1408	C	ARG	177	32.496	55.407	-16.345	1.00137.63	C
ATOM	1409	O	ARG	177	31.629	56.005	-15.718	1.00137.63	O
ATOM	1410	N	GLY	178	32.459	55.265	-17.683	1.00 62.32	N
ATOM	1411	CA	GLY	178	31.452	55.939	-18.444	1.00 62.32	C
ATOM	1412	C	GLY	178	32.047	56.610	-19.635	1.00 62.32	C
ATOM	1413	O	GLY	178	31.465	56.492	-20.712	1.00 62.32	O
ATOM	1414	N	TRP	179	33.227	57.261	-19.503	1.00 92.78	N
ATOM	1415	CA	TRP	179	33.831	57.936	-20.626	1.00 92.78	C
ATOM	1416	CB	TRP	179	34.375	56.947	-21.668	1.00 92.78	C
ATOM	1417	CG	TRP	179	35.473	56.060	-21.136	1.00 92.78	C
ATOM	1418	CD2	TRP	179	35.588	54.669	-21.463	1.00 92.78	C
ATOM	1419	CD1	TRP	179	36.479	56.338	-20.257	1.00 92.78	C
ATOM	1420	NE1	TRP	179	37.217	55.203	-20.018	1.00 92.78	N
ATOM	1421	CE2	TRP	179	36.677	54.167	-20.752	1.00 92.78	C
ATOM	1422	CE3	TRP	179	34.839	53.873	-22.280	1.00 92.78	C
ATOM	1423	CZ2	TRP	179	37.036	52.853	-20.850	1.00 92.78	C
ATOM	1424	CZ3	TRP	179	35.208	52.551	-22.384	1.00 92.78	C
ATOM	1425	CH2	TRP	179	36.286	52.052	-21.682	1.00 92.78	C
ATOM	1426	C	TRP	179	32.776	58.777	-21.288	1.00 92.78	C
ATOM	1427	O	TRP	179	32.346	58.485	-22.402	1.00 92.78	O
ATOM	1428	N	LYS	180	32.324	59.827	-20.581	1.00195.42	N
ATOM	1429	CA	LYS	180	31.278	60.733	-20.970	1.00195.42	C
ATOM	1430	CB	LYS	180	31.215	60.975	-22.489	1.00195.42	C
ATOM	1431	CG	LYS	180	32.575	61.272	-23.120	1.00195.42	C
ATOM	1432	CD	LYS	180	33.355	62.369	-22.405	1.00195.42	C
ATOM	1433	CE	LYS	180	34.205	61.838	-21.251	1.00195.42	C
ATOM	1434	NZ	LYS	180	35.238	60.912	-21.765	1.00195.42	N
ATOM	1435	C	LYS	180	29.946	60.155	-20.568	1.00195.42	C
ATOM	1436	O	LYS	180	28.943	60.868	-20.557	1.00195.42	O
ATOM	1437	N	LEU	181	29.878	58.841	-20.270	1.00152.76	N
ATOM	1438	CA	LEU	181	28.710	58.250	-19.671	1.00152.76	C
ATOM	1439	CB	LEU	181	28.691	56.715	-19.814	1.00152.76	C
ATOM	1440	CG	LEU	181	27.563	55.999	-19.041	1.00152.76	C
ATOM	1441	CD1	LEU	181	27.880	55.880	-17.541	1.00152.76	C
ATOM	1442	CD2	LEU	181	26.211	56.683	-19.276	1.00152.76	C
ATOM	1443	C	LEU	181	28.777	58.599	-18.235	1.00152.76	C
ATOM	1444	O	LEU	181	27.793	58.953	-17.590	1.00152.76	O
ATOM	1445	N	THR	182	30.007	58.511	-17.713	1.00152.95	N
ATOM	1446	CA	THR	182	30.301	58.842	-16.361	1.00152.95	C
ATOM	1447	CB	THR	182	31.740	58.669	-16.033	1.00152.95	C
ATOM	1448	OG1	THR	182	31.848	58.502	-14.634	1.00152.95	O
ATOM	1449	CG2	THR	182	32.582	59.848	-16.543	1.00152.95	C
ATOM	1450	C	THR	182	30.012	60.290	-16.300	1.00152.95	C
ATOM	1451	O	THR	182	29.765	60.843	-15.231	1.00152.95	O
ATOM	1452	N	LEU	183	30.172	60.929	-17.475	1.00189.35	N
ATOM	1453	CA	LEU	183	29.889	62.301	-17.734	1.00189.35	C
ATOM	1454	CB	LEU	183	30.444	62.829	-19.067	1.00189.35	C
ATOM	1455	CG	LEU	183	31.955	63.121	-19.036	1.00189.35	C
ATOM	1456	CD1	LEU	183	32.268	64.306	-18.108	1.00189.35	C
ATOM	1457	CD2	LEU	183	32.765	61.869	-18.679	1.00189.35	C
ATOM	1458	C	LEU	183	28.423	62.492	-17.754	1.00189.35	C
ATOM	1459	O	LEU	183	27.957	63.579	-17.449	1.00189.35	O
ATOM	1460	N	VAL	184	27.651	61.480	-18.184	1.00 56.75	N
ATOM	1461	CA	VAL	184	26.232	61.622	-18.094	1.00 56.75	C
ATOM	1462	CB	VAL	184	25.481	60.376	-18.464	1.00 56.75	C
ATOM	1463	CG1	VAL	184	23.984	60.604	-18.192	1.00 56.75	C
ATOM	1464	CG2	VAL	184	25.801	60.022	-19.925	1.00 56.75	C
ATOM	1465	C	VAL	184	26.026	61.841	-16.638	1.00 56.75	C
ATOM	1466	O	VAL	184	25.231	62.683	-16.225	1.00 56.75	O
ATOM	1467	N	ILE	185	26.799	61.100	-15.822	1.00140.21	N
ATOM	1468	CA	ILE	185	26.699	61.287	-14.408	1.00140.21	C
ATOM	1469	CB	ILE	185	27.624	60.442	-13.573	1.00140.21	C
ATOM	1470	CG1	ILE	185	27.303	58.943	-13.662	1.00140.21	C
ATOM	1471	CG2	ILE	185	27.577	61.000	-12.140	1.00140.21	C
ATOM	1472	CD1	ILE	185	27.778	58.271	-14.944	1.00140.21	C
ATOM	1473	C	ILE	185	27.097	62.680	-14.079	1.00140.21	C

ATOM	1474	O	ILE	185	26.265	63.423	-13.569	1.00140.21	O
ATOM	1475	N	LEU	186	28.316	63.111	-14.483	1.00118.63	N
ATOM	1476	CA	LEU	186	28.802	64.394	-14.042	1.00118.63	C
ATOM	1477	CB	LEU	186	30.132	64.890	-14.645	1.00118.63	C
ATOM	1478	CG	LEU	186	31.391	64.059	-14.359	1.00118.63	C
ATOM	1479	CD1	LEU	186	31.542	62.914	-15.363	1.00118.63	C
ATOM	1480	CD2	LEU	186	32.635	64.952	-14.254	1.00118.63	C
ATOM	1481	C	LEU	186	27.825	65.440	-14.462	1.00118.63	C
ATOM	1482	O	LEU	186	27.556	66.381	-13.721	1.00118.63	O
ATOM	1483	N	ALA	187	27.286	65.324	-15.682	1.00 91.96	N
ATOM	1484	CA	ALA	187	26.390	66.341	-16.116	1.00 91.96	C
ATOM	1485	CB	ALA	187	26.011	66.188	-17.598	1.00 91.96	C
ATOM	1486	C	ALA	187	25.113	66.352	-15.339	1.00 91.96	C
ATOM	1487	O	ALA	187	24.929	67.195	-14.470	1.00 91.96	O
ATOM	1488	N	ILE	188	24.257	65.327	-15.499	1.00125.29	N
ATOM	1489	CA	ILE	188	22.974	65.437	-14.869	1.00125.29	C
ATOM	1490	CB	ILE	188	22.007	64.385	-15.368	1.00125.29	C
ATOM	1491	CG1	ILE	188	22.545	62.942	-15.243	1.00125.29	C
ATOM	1492	CG2	ILE	188	21.647	64.764	-16.814	1.00125.29	C
ATOM	1493	CD1	ILE	188	22.433	62.284	-13.871	1.00125.29	C
ATOM	1494	C	ILE	188	23.138	65.425	-13.389	1.00125.29	C
ATOM	1495	O	ILE	188	22.671	66.326	-12.694	1.00125.29	O
ATOM	1496	N	SER	189	23.900	64.454	-12.873	1.00132.78	N
ATOM	1497	CA	SER	189	24.005	64.318	-11.457	1.00132.78	C
ATOM	1498	CB	SER	189	24.738	63.022	-11.049	1.00132.78	C
ATOM	1499	OG	SER	189	24.656	62.821	-9.647	1.00132.78	O
ATOM	1500	C	SER	189	24.616	65.561	-10.863	1.00132.78	C
ATOM	1501	O	SER	189	23.894	66.259	-10.156	1.00132.78	O
ATOM	1502	N	PRO	190	25.839	65.967	-11.136	1.00 95.99	N
ATOM	1503	CA	PRO	190	26.309	67.159	-10.483	1.00 95.99	C
ATOM	1504	CD	PRO	190	26.942	65.035	-11.334	1.00 95.99	C
ATOM	1505	CB	PRO	190	27.794	67.257	-10.811	1.00 95.99	C
ATOM	1506	CG	PRO	190	28.216	65.778	-10.893	1.00 95.99	C
ATOM	1507	C	PRO	190	25.492	68.383	-10.775	1.00 95.99	C
ATOM	1508	O	PRO	190	25.542	69.308	-9.967	1.00 95.99	O
ATOM	1509	N	VAL	191	24.767	68.442	-11.912	1.00 49.07	N
ATOM	1510	CA	VAL	191	23.928	69.584	-12.169	1.00 49.07	C
ATOM	1511	CB	VAL	191	23.357	69.625	-13.557	1.00 49.07	C
ATOM	1512	CG1	VAL	191	22.281	70.723	-13.606	1.00 49.07	C
ATOM	1513	CG2	VAL	191	24.508	69.895	-14.539	1.00 49.07	C
ATOM	1514	C	VAL	191	22.779	69.602	-11.208	1.00 49.07	C
ATOM	1515	O	VAL	191	22.482	70.638	-10.616	1.00 49.07	O
ATOM	1516	N	LEU	192	22.101	68.452	-11.015	1.00 99.32	N
ATOM	1517	CA	LEU	192	20.995	68.441	-10.101	1.00 99.32	C
ATOM	1518	CB	LEU	192	20.287	67.076	-9.977	1.00 99.32	C
ATOM	1519	CG	LEU	192	19.308	66.728	-11.119	1.00 99.32	C
ATOM	1520	CD1	LEU	192	18.063	67.624	-11.069	1.00 99.32	C
ATOM	1521	CD2	LEU	192	19.975	66.751	-12.498	1.00 99.32	C
ATOM	1522	C	LEU	192	21.547	68.774	-8.759	1.00 99.32	C
ATOM	1523	O	LEU	192	21.010	69.615	-8.042	1.00 99.32	O
ATOM	1524	N	GLY	193	22.702	68.177	-8.427	1.00 42.40	N
ATOM	1525	CA	GLY	193	23.304	68.359	-7.141	1.00 42.40	C
ATOM	1526	C	GLY	193	23.520	69.820	-6.949	1.00 42.40	C
ATOM	1527	O	GLY	193	23.491	70.307	-5.821	1.00 42.40	O
ATOM	1528	N	LEU	194	23.802	70.547	-8.046	1.00 48.66	N
ATOM	1529	CA	LEU	194	24.020	71.960	-7.964	1.00 48.66	C
ATOM	1530	CB	LEU	194	24.406	72.579	-9.316	1.00 48.66	C
ATOM	1531	CG	LEU	194	25.748	72.062	-9.863	1.00 48.66	C
ATOM	1532	CD1	LEU	194	26.094	72.711	-11.211	1.00 48.66	C
ATOM	1533	CD2	LEU	194	26.866	72.219	-8.822	1.00 48.66	C
ATOM	1534	C	LEU	194	22.759	72.636	-7.519	1.00 48.66	C
ATOM	1535	O	LEU	194	22.784	73.462	-6.610	1.00 48.66	O
ATOM	1536	N	SER	195	21.609	72.284	-8.125	1.00 33.52	N
ATOM	1537	CA	SER	195	20.386	72.949	-7.770	1.00 33.52	C
ATOM	1538	CB	SER	195	19.177	72.459	-8.587	1.00 33.52	C
ATOM	1539	OG	SER	195	18.912	71.092	-8.310	1.00 33.52	O
ATOM	1540	C	SER	195	20.112	72.666	-6.331	1.00 33.52	C
ATOM	1541	O	SER	195	19.629	73.528	-5.598	1.00 33.52	O
ATOM	1542	N	ALA	196	20.405	71.431	-5.891	1.00 45.79	N
ATOM	1543	CA	ALA	196	20.169	71.077	-4.526	1.00 45.79	C
ATOM	1544	CB	ALA	196	20.475	69.598	-4.236	1.00 45.79	C
ATOM	1545	C	ALA	196	21.055	71.897	-3.640	1.00 45.79	C
ATOM	1546	O	ALA	196	20.604	72.476	-2.656	1.00 45.79	O
ATOM	1547	N	ALA	197	22.347	72.017	-3.988	1.00 51.46	N

ATOM	1548	CA	ALA	197	23.242	72.703	-3.103	1.00	51.46	C
ATOM	1549	CB	ALA	197	24.684	72.741	-3.634	1.00	51.46	C
ATOM	1550	C	ALA	197	22.791	74.121	-2.947	1.00	51.46	C
ATOM	1551	O	ALA	197	22.730	74.630	-1.830	1.00	51.46	O
ATOM	1552	N	VAL	198	22.466	74.799	-4.066	1.00	57.25	N
ATOM	1553	CA	VAL	198	22.106	76.188	-4.023	1.00	57.25	C
ATOM	1554	CB	VAL	198	21.978	76.790	-5.391	1.00	57.25	C
ATOM	1555	CG1	VAL	198	21.478	78.239	-5.256	1.00	57.25	C
ATOM	1556	CG2	VAL	198	23.337	76.664	-6.099	1.00	57.25	C
ATOM	1557	C	VAL	198	20.803	76.434	-3.328	1.00	57.25	C
ATOM	1558	O	VAL	198	20.756	77.144	-2.329	1.00	57.25	O
ATOM	1559	N	TRP	199	19.705	75.819	-3.801	1.00	72.36	N
ATOM	1560	CA	TRP	199	18.426	76.174	-3.251	1.00	72.36	C
ATOM	1561	CB	TRP	199	17.237	75.477	-3.943	1.00	72.36	C
ATOM	1562	CG	TRP	199	15.882	76.059	-3.590	1.00	72.36	C
ATOM	1563	CD2	TRP	199	15.074	75.691	-2.458	1.00	72.36	C
ATOM	1564	CD1	TRP	199	15.184	77.023	-4.259	1.00	72.36	C
ATOM	1565	NE1	TRP	199	13.996	77.278	-3.619	1.00	72.36	N
ATOM	1566	CE2	TRP	199	13.913	76.466	-2.509	1.00	72.36	C
ATOM	1567	CE3	TRP	199	15.277	74.785	-1.458	1.00	72.36	C
ATOM	1568	CZ2	TRP	199	12.939	76.344	-1.559	1.00	72.36	C
ATOM	1569	CZ3	TRP	199	14.293	74.665	-0.501	1.00	72.36	C
ATOM	1570	CH2	TRP	199	13.146	75.429	-0.551	1.00	72.36	C
ATOM	1571	C	TRP	199	18.395	75.790	-1.808	1.00	72.36	C
ATOM	1572	O	TRP	199	17.982	76.573	-0.955	1.00	72.36	O
ATOM	1573	N	ALA	200	18.839	74.565	-1.485	1.00	57.56	N
ATOM	1574	CA	ALA	200	18.767	74.143	-0.121	1.00	57.56	C
ATOM	1575	CB	ALA	200	19.247	72.699	0.069	1.00	57.56	C
ATOM	1576	C	ALA	200	19.629	75.021	0.738	1.00	57.56	C
ATOM	1577	O	ALA	200	19.182	75.544	1.757	1.00	57.56	O
ATOM	1578	N	LYS	201	20.885	75.255	0.326	1.00	103.96	N
ATOM	1579	CA	LYS	201	21.793	76.017	1.133	1.00	103.96	C
ATOM	1580	CB	LYS	201	23.229	76.026	0.585	1.00	103.96	C
ATOM	1581	CG	LYS	201	23.882	74.645	0.661	1.00	103.96	C
ATOM	1582	CD	LYS	201	23.905	74.070	2.079	1.00	103.96	C
ATOM	1583	CE	LYS	201	24.356	72.610	2.149	1.00	103.96	C
ATOM	1584	NZ	LYS	201	24.352	72.146	3.554	1.00	103.96	N
ATOM	1585	C	LYS	201	21.313	77.421	1.232	1.00	103.96	C
ATOM	1586	O	LYS	201	21.490	78.065	2.265	1.00	103.96	O
ATOM	1587	N	ILE	202	20.696	77.948	0.159	1.00	119.49	N
ATOM	1588	CA	ILE	202	20.292	79.316	0.245	1.00	119.49	C
ATOM	1589	CB	ILE	202	19.714	79.907	-1.016	1.00	119.49	C
ATOM	1590	CG1	ILE	202	18.408	79.229	-1.447	1.00	119.49	C
ATOM	1591	CG2	ILE	202	20.811	79.876	-2.088	1.00	119.49	C
ATOM	1592	CD1	ILE	202	17.665	79.982	-2.551	1.00	119.49	C
ATOM	1593	C	ILE	202	19.285	79.417	1.332	1.00	119.49	C
ATOM	1594	O	ILE	202	19.333	80.325	2.159	1.00	119.49	O
ATOM	1595	N	LEU	203	18.357	78.455	1.372	1.00	162.49	N
ATOM	1596	CA	LEU	203	17.329	78.458	2.352	1.00	162.49	C
ATOM	1597	CB	LEU	203	16.370	77.290	2.098	1.00	162.49	C
ATOM	1598	CG	LEU	203	15.092	77.288	2.938	1.00	162.49	C
ATOM	1599	CD1	LEU	203	14.261	78.560	2.703	1.00	162.49	C
ATOM	1600	CD2	LEU	203	14.293	76.018	2.636	1.00	162.49	C
ATOM	1601	C	LEU	203	17.986	78.306	3.688	1.00	162.49	C
ATOM	1602	O	LEU	203	17.598	78.961	4.649	1.00	162.49	O
ATOM	1603	N	SER	204	19.034	77.466	3.785	1.00	36.75	N
ATOM	1604	CA	SER	204	19.677	77.227	5.049	1.00	36.75	C
ATOM	1605	CB	SER	204	20.887	76.286	4.925	1.00	36.75	C
ATOM	1606	OG	SER	204	20.464	75.000	4.494	1.00	36.75	O
ATOM	1607	C	SER	204	20.170	78.523	5.622	1.00	36.75	C
ATOM	1608	O	SER	204	19.973	78.799	6.803	1.00	36.75	O
ATOM	1609	N	SER	205	20.829	79.368	4.810	1.00	26.64	N
ATOM	1610	CA	SER	205	21.303	80.611	5.349	1.00	26.64	C
ATOM	1611	CB	SER	205	22.089	81.443	4.325	1.00	26.64	C
ATOM	1612	OG	SER	205	21.237	81.831	3.257	1.00	26.64	O
ATOM	1613	C	SER	205	20.094	81.395	5.731	1.00	26.64	C
ATOM	1614	O	SER	205	20.068	82.103	6.737	1.00	26.64	O
ATOM	1615	N	PHE	206	19.031	81.225	4.934	1.00	62.11	N
ATOM	1616	CA	PHE	206	17.796	81.920	5.114	1.00	62.11	C
ATOM	1617	CB	PHE	206	16.765	81.505	4.046	1.00	62.11	C
ATOM	1618	CG	PHE	206	15.486	82.243	4.242	1.00	62.11	C
ATOM	1619	CD1	PHE	206	15.359	83.550	3.828	1.00	62.11	C
ATOM	1620	CD2	PHE	206	14.404	81.621	4.817	1.00	62.11	C
ATOM	1621	CE1	PHE	206	14.176	84.227	4.002	1.00	62.11	C

ATOM	1622	CE2	PHE	206	13.218	82.294	4.993	1.00	62.11	C
ATOM	1623	CZ	PHE	206	13.102	83.601	4.586	1.00	62.11	C
ATOM	1624	C	PHE	206	17.264	81.572	6.470	1.00	62.11	C
ATOM	1625	O	PHE	206	16.732	82.434	7.168	1.00	62.11	O
ATOM	1626	N	THR	207	17.387	80.295	6.881	1.00	117.66	N
ATOM	1627	CA	THR	207	16.840	79.900	8.144	1.00	117.66	C
ATOM	1628	CB	THR	207	16.853	78.415	8.401	1.00	117.66	C
ATOM	1629	OG1	THR	207	15.967	78.113	9.468	1.00	117.66	O
ATOM	1630	CG2	THR	207	18.271	77.952	8.773	1.00	117.66	C
ATOM	1631	C	THR	207	17.571	80.585	9.259	1.00	117.66	C
ATOM	1632	O	THR	207	16.952	81.072	10.204	1.00	117.66	O
ATOM	1633	N	ASP	208	18.911	80.671	9.166	1.00	76.75	N
ATOM	1634	CA	ASP	208	19.669	81.238	10.244	1.00	76.75	C
ATOM	1635	CB	ASP	208	21.182	81.233	9.968	1.00	76.75	C
ATOM	1636	CG	ASP	208	21.905	81.498	11.282	1.00	76.75	C
ATOM	1637	OD1	ASP	208	21.389	82.313	12.092	1.00	76.75	O
ATOM	1638	OD2	ASP	208	22.984	80.884	11.494	1.00	76.75	O
ATOM	1639	C	ASP	208	19.232	82.654	10.431	1.00	76.75	C
ATOM	1640	O	ASP	208	18.995	83.092	11.556	1.00	76.75	O
ATOM	1641	N	LYS	209	19.066	83.393	9.321	1.00	95.55	N
ATOM	1642	CA	LYS	209	18.670	84.765	9.417	1.00	95.55	C
ATOM	1643	CB	LYS	209	18.491	85.411	8.024	1.00	95.55	C
ATOM	1644	CG	LYS	209	17.826	86.795	8.009	1.00	95.55	C
ATOM	1645	CD	LYS	209	16.312	86.756	8.247	1.00	95.55	C
ATOM	1646	CE	LYS	209	15.695	88.096	8.641	1.00	95.55	C
ATOM	1647	NZ	LYS	209	14.243	87.924	8.870	1.00	95.55	N
ATOM	1648	C	LYS	209	17.372	84.795	10.147	1.00	95.55	C
ATOM	1649	O	LYS	209	17.135	85.657	10.992	1.00	95.55	O
ATOM	1650	N	GLU	210	16.494	83.829	9.854	1.00	94.56	N
ATOM	1651	CA	GLU	210	15.218	83.860	10.486	1.00	94.56	C
ATOM	1652	CB	GLU	210	14.262	82.779	9.961	1.00	94.56	C
ATOM	1653	CG	GLU	210	13.800	83.019	8.524	1.00	94.56	C
ATOM	1654	CD	GLU	210	12.976	84.301	8.501	1.00	94.56	C
ATOM	1655	OE1	GLU	210	12.877	84.961	9.570	1.00	94.56	O
ATOM	1656	OE2	GLU	210	12.436	84.641	7.414	1.00	94.56	O
ATOM	1657	C	GLU	210	15.409	83.725	11.967	1.00	94.56	C
ATOM	1658	O	GLU	210	14.711	84.371	12.744	1.00	94.56	O
ATOM	1659	N	LEU	211	16.373	82.890	12.402	1.00	56.23	N
ATOM	1660	CA	LEU	211	16.603	82.662	13.805	1.00	56.23	C
ATOM	1661	CB	LEU	211	17.674	81.586	14.061	1.00	56.23	C
ATOM	1662	CG	LEU	211	17.228	80.159	13.691	1.00	56.23	C
ATOM	1663	CD1	LEU	211	18.344	79.140	13.971	1.00	56.23	C
ATOM	1664	CD2	LEU	211	15.914	79.789	14.397	1.00	56.23	C
ATOM	1665	C	LEU	211	17.058	83.920	14.494	1.00	56.23	C
ATOM	1666	O	LEU	211	16.628	84.205	15.611	1.00	56.23	O
ATOM	1667	N	LEU	212	17.944	84.708	13.853	1.00	121.76	N
ATOM	1668	CA	LEU	212	18.500	85.884	14.473	1.00	121.76	C
ATOM	1669	CB	LEU	212	19.532	86.572	13.553	1.00	121.76	C
ATOM	1670	CG	LEU	212	20.209	87.842	14.118	1.00	121.76	C
ATOM	1671	CD1	LEU	212	19.260	89.051	14.174	1.00	121.76	C
ATOM	1672	CD2	LEU	212	20.887	87.548	15.465	1.00	121.76	C
ATOM	1673	C	LEU	212	17.402	86.854	14.764	1.00	121.76	C
ATOM	1674	O	LEU	212	17.308	87.402	15.862	1.00	121.76	O
ATOM	1675	N	ALA	213	16.508	87.064	13.785	1.00	36.83	N
ATOM	1676	CA	ALA	213	15.438	87.998	13.966	1.00	36.83	C
ATOM	1677	CB	ALA	213	14.481	88.053	12.761	1.00	36.83	C
ATOM	1678	C	ALA	213	14.658	87.511	15.145	1.00	36.83	C
ATOM	1679	O	ALA	213	14.140	88.293	15.942	1.00	36.83	O
ATOM	1680	N	TYR	214	14.574	86.179	15.285	1.00	149.28	N
ATOM	1681	CA	TYR	214	13.856	85.559	16.356	1.00	149.28	C
ATOM	1682	CB	TYR	214	13.965	84.022	16.237	1.00	149.28	C
ATOM	1683	CG	TYR	214	13.624	83.333	17.512	1.00	149.28	C
ATOM	1684	CD1	TYR	214	12.322	83.080	17.861	1.00	149.28	C
ATOM	1685	CD2	TYR	214	14.625	82.930	18.368	1.00	149.28	C
ATOM	1686	CE1	TYR	214	12.040	82.438	19.043	1.00	149.28	C
ATOM	1687	CE2	TYR	214	14.343	82.287	19.552	1.00	149.28	C
ATOM	1688	CZ	TYR	214	13.038	82.038	19.892	1.00	149.28	C
ATOM	1689	OH	TYR	214	12.716	81.381	21.098	1.00	149.28	O
ATOM	1690	C	TYR	214	14.404	86.020	17.681	1.00	149.28	C
ATOM	1691	O	TYR	214	13.649	86.428	18.560	1.00	149.28	O
ATOM	1692	N	ALA	215	15.737	86.030	17.852	1.00	42.92	N
ATOM	1693	CA	ALA	215	16.307	86.370	19.132	1.00	42.92	C
ATOM	1694	CB	ALA	215	17.842	86.273	19.140	1.00	42.92	C
ATOM	1695	C	ALA	215	15.946	87.770	19.525	1.00	42.92	C

ATOM	1696	O	ALA	215	15.646	88.034	20.690	1.00	42.92	O
ATOM	1697	N	LYS	216	15.968	88.709	18.563	1.00	157.72	N
ATOM	1698	CA	LYS	216	15.697	90.085	18.875	1.00	157.72	C
ATOM	1699	CB	LYS	216	15.791	91.001	17.644	1.00	157.72	C
ATOM	1700	CG	LYS	216	17.220	91.270	17.168	1.00	157.72	C
ATOM	1701	CD	LYS	216	18.058	92.141	18.113	1.00	157.72	C
ATOM	1702	CE	LYS	216	18.497	91.459	19.413	1.00	157.72	C
ATOM	1703	NZ	LYS	216	17.501	91.691	20.484	1.00	157.72	N
ATOM	1704	C	LYS	216	14.304	90.195	19.403	1.00	157.72	C
ATOM	1705	O	LYS	216	14.042	90.890	20.385	1.00	157.72	O
ATOM	1706	N	ALA	217	13.376	89.463	18.774	1.00	48.21	N
ATOM	1707	CA	ALA	217	11.991	89.527	19.121	1.00	48.21	C
ATOM	1708	CB	ALA	217	11.145	88.583	18.250	1.00	48.21	C
ATOM	1709	C	ALA	217	11.834	89.108	20.551	1.00	48.21	C
ATOM	1710	O	ALA	217	10.971	89.619	21.263	1.00	48.21	O
ATOM	1711	N	GLY	218	12.654	88.135	20.989	1.00	50.03	N
ATOM	1712	CA	GLY	218	12.616	87.575	22.315	1.00	50.03	C
ATOM	1713	C	GLY	218	12.977	88.565	23.399	1.00	50.03	C
ATOM	1714	O	GLY	218	12.462	88.483	24.514	1.00	50.03	O
ATOM	1715	N	ALA	219	13.947	89.466	23.156	1.00	46.51	N
ATOM	1716	CA	ALA	219	14.320	90.428	24.167	1.00	46.51	C
ATOM	1717	CB	ALA	219	15.543	91.270	23.766	1.00	46.51	C
ATOM	1718	C	ALA	219	13.180	91.370	24.385	1.00	46.51	C
ATOM	1719	O	ALA	219	12.862	91.750	25.513	1.00	46.51	O
ATOM	1720	N	VAL	220	12.537	91.764	23.273	1.00	73.61	N
ATOM	1721	CA	VAL	220	11.407	92.644	23.260	1.00	73.61	C
ATOM	1722	CB	VAL	220	10.925	92.960	21.875	1.00	73.61	C
ATOM	1723	CG1	VAL	220	9.674	93.848	21.985	1.00	73.61	C
ATOM	1724	CG2	VAL	220	12.081	93.602	21.089	1.00	73.61	C
ATOM	1725	C	VAL	220	10.330	91.897	23.967	1.00	73.61	C
ATOM	1726	O	VAL	220	9.296	92.444	24.341	1.00	73.61	O
ATOM	1727	N	ALA	221	10.496	90.571	24.017	1.00	107.80	N
ATOM	1728	CA	ALA	221	9.629	89.707	24.748	1.00	107.80	C
ATOM	1729	CB	ALA	221	9.756	88.212	24.397	1.00	107.80	C
ATOM	1730	C	ALA	221	9.829	89.885	26.243	1.00	107.80	C
ATOM	1731	O	ALA	221	8.986	89.450	27.018	1.00	107.80	O
ATOM	1732	N	GLU	222	11.017	90.339	26.709	1.00	207.45	N
ATOM	1733	CA	GLU	222	11.292	90.446	28.132	1.00	207.45	C
ATOM	1734	CB	GLU	222	12.809	90.485	28.393	1.00	207.45	C
ATOM	1735	CG	GLU	222	13.203	90.256	29.853	1.00	207.45	C
ATOM	1736	CD	GLU	222	13.030	88.777	30.178	1.00	207.45	C
ATOM	1737	OE1	GLU	222	11.858	88.324	30.266	1.00	207.45	O
ATOM	1738	OE2	GLU	222	14.067	88.083	30.349	1.00	207.45	O
ATOM	1739	C	GLU	222	10.667	91.588	28.937	1.00	207.45	C
ATOM	1740	O	GLU	222	9.743	91.362	29.716	1.00	207.45	O
ATOM	1741	N	GLU	223	11.104	92.862	28.742	1.00	269.95	N
ATOM	1742	CA	GLU	223	10.620	93.986	29.540	1.00	269.95	C
ATOM	1743	CB	GLU	223	9.125	94.285	29.332	1.00	269.95	C
ATOM	1744	CG	GLU	223	8.802	94.884	27.959	1.00	269.95	C
ATOM	1745	CD	GLU	223	9.097	93.841	26.891	1.00	269.95	C
ATOM	1746	OE1	GLU	223	10.270	93.781	26.434	1.00	269.95	O
ATOM	1747	OE2	GLU	223	8.156	93.092	26.516	1.00	269.95	O
ATOM	1748	C	GLU	223	10.872	93.771	31.026	1.00	269.95	C
ATOM	1749	O	GLU	223	11.527	92.805	31.407	1.00	269.95	O
ATOM	1750	N	VAL	224	10.410	94.717	31.901	1.00	130.31	N
ATOM	1751	CA	VAL	224	10.577	94.631	33.343	1.00	130.31	C
ATOM	1752	CB	VAL	224	10.508	95.950	34.054	1.00	130.31	C
ATOM	1753	CG1	VAL	224	10.507	95.681	35.570	1.00	130.31	C
ATOM	1754	CG2	VAL	224	11.692	96.812	33.582	1.00	130.31	C
ATOM	1755	C	VAL	224	9.515	93.752	33.937	1.00	130.31	C
ATOM	1756	O	VAL	224	8.371	93.744	33.489	1.00	130.31	O
ATOM	1757	N	LEU	225	9.956	92.818	34.801	1.00	222.67	N
ATOM	1758	CA	LEU	225	9.180	91.886	35.578	1.00	222.67	C
ATOM	1759	CB	LEU	225	9.700	90.461	35.364	1.00	222.67	C
ATOM	1760	CG	LEU	225	9.534	90.020	33.889	1.00	222.67	C
ATOM	1761	CD1	LEU	225	10.416	90.802	32.906	1.00	222.67	C
ATOM	1762	CD2	LEU	225	9.764	88.525	33.738	1.00	222.67	C
ATOM	1763	C	LEU	225	9.007	92.189	37.050	1.00	222.67	C
ATOM	1764	O	LEU	225	8.180	91.559	37.706	1.00	222.67	O
ATOM	1765	N	ALA	226	9.882	93.034	37.637	1.00	96.40	N
ATOM	1766	CA	ALA	226	9.954	93.275	39.067	1.00	96.40	C
ATOM	1767	CB	ALA	226	11.381	93.578	39.556	1.00	96.40	C
ATOM	1768	C	ALA	226	9.091	94.429	39.493	1.00	96.40	C
ATOM	1769	O	ALA	226	8.232	94.887	38.744	1.00	96.40	O

ATOM	1770	N	ALA	227	9.297	94.896	40.755	1.00	85.55	N
ATOM	1771	CA	ALA	227	8.564	95.985	41.352	1.00	85.55	C
ATOM	1772	CB	ALA	227	8.606	97.272	40.510	1.00	85.55	C
ATOM	1773	C	ALA	227	7.152	95.539	41.439	1.00	85.55	C
ATOM	1774	O	ALA	227	6.210	96.319	41.546	1.00	85.55	O
ATOM	1775	N	ILE	228	7.012	94.220	41.515	1.00	154.51	N
ATOM	1776	CA	ILE	228	5.779	93.514	41.456	1.00	154.51	C
ATOM	1777	CB	ILE	228	6.031	92.036	41.571	1.00	154.51	C
ATOM	1778	CG1	ILE	228	4.892	91.192	40.977	1.00	154.51	C
ATOM	1779	CG2	ILE	228	6.348	91.739	43.041	1.00	154.51	C
ATOM	1780	CD1	ILE	228	3.538	91.361	41.647	1.00	154.51	C
ATOM	1781	C	ILE	228	4.859	93.961	42.553	1.00	154.51	C
ATOM	1782	O	ILE	228	3.660	94.012	42.321	1.00	154.51	O
ATOM	1783	N	ARG	229	5.345	94.286	43.771	1.00	68.94	N
ATOM	1784	CA	ARG	229	4.418	94.653	44.819	1.00	68.94	C
ATOM	1785	CB	ARG	229	5.118	95.078	46.123	1.00	68.94	C
ATOM	1786	CG	ARG	229	4.146	95.465	47.243	1.00	68.94	C
ATOM	1787	CD	ARG	229	4.837	95.963	48.516	1.00	68.94	C
ATOM	1788	NE	ARG	229	3.777	96.269	49.520	1.00	68.94	N
ATOM	1789	CZ	ARG	229	3.269	97.530	49.643	1.00	68.94	C
ATOM	1790	NH1	ARG	229	3.728	98.539	48.847	1.00	68.94	N
ATOM	1791	NH2	ARG	229	2.303	97.783	50.573	1.00	68.94	N
ATOM	1792	C	ARG	229	3.629	95.827	44.345	1.00	68.94	C
ATOM	1793	O	ARG	229	2.400	95.831	44.407	1.00	68.94	O
ATOM	1794	N	THR	230	4.324	96.824	43.779	1.00	51.80	N
ATOM	1795	CA	THR	230	3.643	97.984	43.299	1.00	51.80	C
ATOM	1796	CB	THR	230	4.592	98.989	42.702	1.00	51.80	C
ATOM	1797	OG1	THR	230	5.561	99.379	43.664	1.00	51.80	O
ATOM	1798	CG2	THR	230	3.796	100.219	42.235	1.00	51.80	C
ATOM	1799	C	THR	230	2.714	97.532	42.213	1.00	51.80	C
ATOM	1800	O	THR	230	1.600	98.039	42.087	1.00	51.80	O
ATOM	1801	N	VAL	231	3.161	96.569	41.382	1.00	166.82	N
ATOM	1802	CA	VAL	231	2.349	96.116	40.281	1.00	166.82	C
ATOM	1803	CB	VAL	231	3.050	95.392	39.154	1.00	166.82	C
ATOM	1804	CG1	VAL	231	4.115	96.323	38.557	1.00	166.82	C
ATOM	1805	CG2	VAL	231	3.557	94.019	39.592	1.00	166.82	C
ATOM	1806	C	VAL	231	1.152	95.304	40.710	1.00	166.82	C
ATOM	1807	O	VAL	231	0.191	95.204	39.952	1.00	166.82	O
ATOM	1808	N	ILE	232	1.182	94.631	41.879	1.00	121.15	N
ATOM	1809	CA	ILE	232	0.051	93.852	42.309	1.00	121.15	C
ATOM	1810	CB	ILE	232	0.285	93.133	43.609	1.00	121.15	C
ATOM	1811	CG1	ILE	232	1.288	91.986	43.437	1.00	121.15	C
ATOM	1812	CG2	ILE	232	-1.079	92.664	44.139	1.00	121.15	C
ATOM	1813	CD1	ILE	232	0.765	90.876	42.525	1.00	121.15	C
ATOM	1814	C	ILE	232	-1.082	94.794	42.547	1.00	121.15	C
ATOM	1815	O	ILE	232	-2.221	94.543	42.157	1.00	121.15	O
ATOM	1816	N	ALA	233	-0.776	95.911	43.222	1.00	76.96	N
ATOM	1817	CA	ALA	233	-1.707	96.968	43.494	1.00	76.96	C
ATOM	1818	CB	ALA	233	-1.108	98.081	44.370	1.00	76.96	C
ATOM	1819	C	ALA	233	-2.091	97.575	42.176	1.00	76.96	C
ATOM	1820	O	ALA	233	-3.079	98.299	42.070	1.00	76.96	O
ATOM	1821	N	PHE	234	-1.196	97.438	41.182	1.00	104.97	N
ATOM	1822	CA	PHE	234	-1.385	97.929	39.839	1.00	104.97	C
ATOM	1823	CB	PHE	234	-0.051	97.918	39.069	1.00	104.97	C
ATOM	1824	CG	PHE	234	-0.189	98.728	37.829	1.00	104.97	C
ATOM	1825	CD1	PHE	234	-0.357	100.092	37.912	1.00	104.97	C
ATOM	1826	CD2	PHE	234	-0.110	98.138	36.589	1.00	104.97	C
ATOM	1827	CE1	PHE	234	-0.476	100.855	36.775	1.00	104.97	C
ATOM	1828	CE2	PHE	234	-0.227	98.898	35.449	1.00	104.97	C
ATOM	1829	CZ	PHE	234	-0.413	100.257	35.540	1.00	104.97	C
ATOM	1830	C	PHE	234	-2.409	97.105	39.094	1.00	104.97	C
ATOM	1831	O	PHE	234	-3.286	97.660	38.427	1.00	104.97	O
ATOM	1832	N	GLY	235	-2.336	95.756	39.221	1.00	85.44	N
ATOM	1833	CA	GLY	235	-3.263	94.849	38.592	1.00	85.44	C
ATOM	1834	C	GLY	235	-2.549	93.748	37.875	1.00	85.44	C
ATOM	1835	O	GLY	235	-2.720	92.571	38.193	1.00	85.44	O
ATOM	1836	N	GLY	236	-1.708	94.097	36.898	1.00	95.25	N
ATOM	1837	CA	GLY	236	-0.998	93.098	36.181	1.00	95.25	C
ATOM	1838	C	GLY	236	-1.031	93.588	34.797	1.00	95.25	C
ATOM	1839	O	GLY	236	-2.121	93.768	34.250	1.00	95.25	O
ATOM	1840	N	GLN	237	0.163	93.821	34.212	1.00	180.86	N
ATOM	1841	CA	GLN	237	0.140	94.332	32.885	1.00	180.86	C
ATOM	1842	CB	GLN	237	1.543	94.576	32.300	1.00	180.86	C
ATOM	1843	CG	GLN	237	2.177	95.902	32.744	1.00	180.86	C

ATOM	1844	CD	GLN	237	2.695	95.834	34.178	1.00180.86	C
ATOM	1845	OE1	GLN	237	1.970	95.494	35.112	1.00180.86	O
ATOM	1846	NE2	GLN	237	3.993	96.199	34.357	1.00180.86	N
ATOM	1847	C	GLN	237	-0.564	93.271	32.093	1.00180.86	C
ATOM	1848	O	GLN	237	-1.669	93.491	31.600	1.00180.86	O
ATOM	1849	N	LYS	238	0.024	92.061	32.089	1.00188.07	N
ATOM	1850	CA	LYS	238	-0.509	90.842	31.557	1.00188.07	C
ATOM	1851	CB	LYS	238	-1.923	90.548	32.074	1.00188.07	C
ATOM	1852	CG	LYS	238	-2.041	90.386	33.585	1.00188.07	C
ATOM	1853	CD	LYS	238	-3.486	90.552	34.044	1.00188.07	C
ATOM	1854	CE	LYS	238	-4.047	91.913	33.629	1.00188.07	C
ATOM	1855	NZ	LYS	238	-5.518	91.911	33.684	1.00188.07	N
ATOM	1856	C	LYS	238	-0.642	90.887	30.068	1.00188.07	C
ATOM	1857	O	LYS	238	-0.365	89.890	29.407	1.00188.07	O
ATOM	1858	N	LYS	239	-1.166	92.011	29.531	1.00175.28	N
ATOM	1859	CA	LYS	239	-1.353	92.256	28.130	1.00175.28	C
ATOM	1860	CB	LYS	239	-2.553	93.178	27.816	1.00175.28	C
ATOM	1861	CG	LYS	239	-2.214	94.641	27.513	1.00175.28	C
ATOM	1862	CD	LYS	239	-1.749	94.854	26.064	1.00175.28	C
ATOM	1863	CE	LYS	239	-1.399	96.298	25.705	1.00175.28	C
ATOM	1864	NZ	LYS	239	-0.884	96.361	24.317	1.00175.28	N
ATOM	1865	C	LYS	239	-0.137	92.868	27.509	1.00175.28	C
ATOM	1866	O	LYS	239	0.135	92.614	26.343	1.00175.28	O
ATOM	1867	N	GLU	240	0.585	93.763	28.224	1.00 69.38	N
ATOM	1868	CA	GLU	240	1.714	94.408	27.598	1.00 69.38	C
ATOM	1869	CB	GLU	240	2.410	95.442	28.499	1.00 69.38	C
ATOM	1870	CG	GLU	240	1.554	96.660	28.854	1.00 69.38	C
ATOM	1871	CD	GLU	240	2.418	97.587	29.702	1.00 69.38	C
ATOM	1872	OE1	GLU	240	3.626	97.274	29.872	1.00 69.38	O
ATOM	1873	OE2	GLU	240	1.886	98.623	30.184	1.00 69.38	O
ATOM	1874	C	GLU	240	2.712	93.341	27.330	1.00 69.38	C
ATOM	1875	O	GLU	240	3.247	93.228	26.229	1.00 69.38	O
ATOM	1876	N	LEU	241	2.958	92.509	28.356	1.00167.05	N
ATOM	1877	CA	LEU	241	3.895	91.435	28.254	1.00167.05	C
ATOM	1878	CB	LEU	241	4.041	90.635	29.562	1.00167.05	C
ATOM	1879	CG	LEU	241	2.789	90.689	30.457	1.00167.05	C
ATOM	1880	CD1	LEU	241	2.818	89.599	31.532	1.00167.05	C
ATOM	1881	CD2	LEU	241	2.669	92.072	31.121	1.00167.05	C
ATOM	1882	C	LEU	241	3.417	90.471	27.218	1.00167.05	C
ATOM	1883	O	LEU	241	4.139	90.162	26.279	1.00167.05	O
ATOM	1884	N	GLU	242	2.157	90.018	27.313	1.00119.50	N
ATOM	1885	CA	GLU	242	1.674	89.028	26.395	1.00119.50	C
ATOM	1886	CB	GLU	242	0.222	88.632	26.719	1.00119.50	C
ATOM	1887	CG	GLU	242	-0.378	87.558	25.812	1.00119.50	C
ATOM	1888	CD	GLU	242	-1.158	88.250	24.705	1.00119.50	C
ATOM	1889	OE1	GLU	242	-0.984	89.486	24.529	1.00119.50	O
ATOM	1890	OE2	GLU	242	-1.950	87.543	24.025	1.00119.50	O
ATOM	1891	C	GLU	242	1.732	89.588	25.008	1.00119.50	C
ATOM	1892	O	GLU	242	2.157	88.901	24.082	1.00119.50	O
ATOM	1893	N	ARG	243	1.351	90.868	24.838	1.00146.38	N
ATOM	1894	CA	ARG	243	1.248	91.463	23.537	1.00146.38	C
ATOM	1895	CB	ARG	243	0.784	92.929	23.603	1.00146.38	C
ATOM	1896	CG	ARG	243	0.142	93.413	22.303	1.00146.38	C
ATOM	1897	CD	ARG	243	1.127	93.695	21.171	1.00146.38	C
ATOM	1898	NE	ARG	243	0.318	93.864	19.931	1.00146.38	N
ATOM	1899	CZ	ARG	243	0.879	94.377	18.798	1.00146.38	C
ATOM	1900	NH1	ARG	243	2.177	94.799	18.809	1.00146.38	N
ATOM	1901	NH2	ARG	243	0.144	94.469	17.652	1.00146.38	N
ATOM	1902	C	ARG	243	2.583	91.424	22.864	1.00146.38	C
ATOM	1903	O	ARG	243	2.695	90.939	21.742	1.00146.38	O
ATOM	1904	N	TYR	244	3.646	91.908	23.533	1.00 75.33	N
ATOM	1905	CA	TYR	244	4.942	91.878	22.925	1.00 75.33	C
ATOM	1906	CB	TYR	244	6.006	92.628	23.742	1.00 75.33	C
ATOM	1907	CG	TYR	244	5.684	94.078	23.630	1.00 75.33	C
ATOM	1908	CD1	TYR	244	4.820	94.679	24.514	1.00 75.33	C
ATOM	1909	CD2	TYR	244	6.238	94.835	22.625	1.00 75.33	C
ATOM	1910	CE1	TYR	244	4.524	96.017	24.404	1.00 75.33	C
ATOM	1911	CE2	TYR	244	5.947	96.174	22.509	1.00 75.33	C
ATOM	1912	CZ	TYR	244	5.087	96.767	23.401	1.00 75.33	C
ATOM	1913	OH	TYR	244	4.784	98.140	23.287	1.00 75.33	O
ATOM	1914	C	TYR	244	5.381	90.455	22.770	1.00 75.33	C
ATOM	1915	O	TYR	244	5.901	90.075	21.723	1.00 75.33	O
ATOM	1916	N	ASN	245	5.159	89.619	23.805	1.00103.67	N
ATOM	1917	CA	ASN	245	5.663	88.270	23.777	1.00103.67	C

ATOM	1918	CB	ASN	245	5.191	87.408	24.966	1.00103.67	C
ATOM	1919	CG	ASN	245	5.857	87.908	26.229	1.00103.67	C
ATOM	1920	OD1	ASN	245	5.774	87.292	27.290	1.00103.67	O
ATOM	1921	ND2	ASN	245	6.546	89.069	26.102	1.00103.67	N
ATOM	1922	C	ASN	245	5.149	87.550	22.577	1.00103.67	C
ATOM	1923	O	ASN	245	5.909	87.245	21.664	1.00103.67	O
ATOM	1924	N	LYS	246	3.823	87.341	22.521	1.00150.94	N
ATOM	1925	CA	LYS	246	3.162	86.590	21.493	1.00150.94	C
ATOM	1926	CB	LYS	246	1.642	86.517	21.713	1.00150.94	C
ATOM	1927	CG	LYS	246	1.191	85.651	22.890	1.00150.94	C
ATOM	1928	CD	LYS	246	1.360	84.150	22.655	1.00150.94	C
ATOM	1929	CE	LYS	246	0.695	83.298	23.737	1.00150.94	C
ATOM	1930	NZ	LYS	246	0.271	82.003	23.162	1.00150.94	N
ATOM	1931	C	LYS	246	3.350	87.284	20.190	1.00150.94	C
ATOM	1932	O	LYS	246	3.368	86.618	19.157	1.00150.94	O
ATOM	1933	N	ASN	247	3.429	88.634	20.170	1.00149.58	N
ATOM	1934	CA	ASN	247	3.473	89.193	18.852	1.00149.58	C
ATOM	1935	CB	ASN	247	3.212	90.714	18.723	1.00149.58	C
ATOM	1936	CG	ASN	247	4.421	91.584	19.025	1.00149.58	C
ATOM	1937	OD1	ASN	247	5.353	91.669	18.229	1.00149.58	O
ATOM	1938	ND2	ASN	247	4.369	92.318	20.164	1.00149.58	N
ATOM	1939	C	ASN	247	4.761	88.841	18.171	1.00149.58	C
ATOM	1940	O	ASN	247	4.740	88.204	17.122	1.00149.58	O
ATOM	1941	N	LEU	248	5.924	89.177	18.771	1.00112.13	N
ATOM	1942	CA	LEU	248	7.169	88.899	18.119	1.00112.13	C
ATOM	1943	CB	LEU	248	8.396	89.388	18.907	1.00112.13	C
ATOM	1944	CG	LEU	248	8.532	90.914	19.044	1.00112.13	C
ATOM	1945	CD1	LEU	248	8.619	91.587	17.665	1.00112.13	C
ATOM	1946	CD2	LEU	248	7.460	91.506	19.974	1.00112.13	C
ATOM	1947	C	LEU	248	7.304	87.420	18.034	1.00112.13	C
ATOM	1948	O	LEU	248	7.665	86.872	16.993	1.00112.13	O
ATOM	1949	N	GLU	249	6.982	86.728	19.140	1.00108.39	N
ATOM	1950	CA	GLU	249	7.183	85.315	19.156	1.00108.39	C
ATOM	1951	CB	GLU	249	6.801	84.619	20.473	1.00108.39	C
ATOM	1952	CG	GLU	249	7.792	84.858	21.610	1.00108.39	C
ATOM	1953	CD	GLU	249	7.586	83.745	22.627	1.00108.39	C
ATOM	1954	OE1	GLU	249	6.426	83.548	23.079	1.00108.39	O
ATOM	1955	OE2	GLU	249	8.595	83.063	22.950	1.00108.39	O
ATOM	1956	C	GLU	249	6.376	84.676	18.098	1.00108.39	C
ATOM	1957	O	GLU	249	6.938	83.928	17.323	1.00108.39	O
ATOM	1958	N	GLU	250	5.071	84.962	17.981	1.00106.56	N
ATOM	1959	CA	GLU	250	4.281	84.268	17.004	1.00106.56	C
ATOM	1960	CB	GLU	250	2.798	84.667	17.078	1.00106.56	C
ATOM	1961	CG	GLU	250	1.866	83.709	16.336	1.00106.56	C
ATOM	1962	CD	GLU	250	0.435	84.101	16.675	1.00106.56	C
ATOM	1963	OE1	GLU	250	0.257	85.098	17.424	1.00106.56	O
ATOM	1964	OE2	GLU	250	-0.499	83.407	16.192	1.00106.56	O
ATOM	1965	C	GLU	250	4.800	84.595	15.640	1.00106.56	C
ATOM	1966	O	GLU	250	4.928	83.706	14.798	1.00106.56	O
ATOM	1967	N	ALA	251	5.161	85.872	15.396	1.00 74.90	N
ATOM	1968	CA	ALA	251	5.525	86.259	14.063	1.00 74.90	C
ATOM	1969	CB	ALA	251	5.929	87.739	13.969	1.00 74.90	C
ATOM	1970	C	ALA	251	6.690	85.451	13.603	1.00 74.90	C
ATOM	1971	O	ALA	251	6.599	84.734	12.611	1.00 74.90	O
ATOM	1972	N	LYS	252	7.789	85.490	14.367	1.00161.17	N
ATOM	1973	CA	LYS	252	8.988	84.774	14.077	1.00161.17	C
ATOM	1974	CB	LYS	252	10.111	85.083	15.080	1.00161.17	C
ATOM	1975	CG	LYS	252	10.288	86.567	15.410	1.00161.17	C
ATOM	1976	CD	LYS	252	10.592	87.474	14.220	1.00161.17	C
ATOM	1977	CE	LYS	252	10.757	88.941	14.627	1.00161.17	C
ATOM	1978	NZ	LYS	252	11.251	89.737	13.484	1.00161.17	N
ATOM	1979	C	LYS	252	8.657	83.343	14.295	1.00161.17	C
ATOM	1980	O	LYS	252	9.424	82.481	13.914	1.00161.17	O
ATOM	1981	N	ARG	253	7.595	83.024	15.047	1.00193.52	N
ATOM	1982	CA	ARG	253	7.363	81.632	15.289	1.00193.52	C
ATOM	1983	CB	ARG	253	6.128	81.272	16.135	1.00193.52	C
ATOM	1984	CG	ARG	253	6.320	81.288	17.651	1.00193.52	C
ATOM	1985	CD	ARG	253	7.605	80.612	18.129	1.00193.52	C
ATOM	1986	NE	ARG	253	8.258	81.583	19.047	1.00193.52	N
ATOM	1987	CZ	ARG	253	9.008	82.601	18.536	1.00193.52	C
ATOM	1988	NH1	ARG	253	9.271	82.654	17.196	1.00193.52	N
ATOM	1989	NH2	ARG	253	9.455	83.589	19.364	1.00193.52	N
ATOM	1990	C	ARG	253	7.095	81.029	13.989	1.00193.52	C
ATOM	1991	O	ARG	253	7.990	80.430	13.425	1.00193.52	O

ATOM	1992	N	ILE	254	5.928	81.351	13.411	1.00128.65	N
ATOM	1993	CA	ILE	254	5.492	80.822	12.164	1.00128.65	C
ATOM	1994	CB	ILE	254	4.155	81.354	11.733	1.00128.65	C
ATOM	1995	CG1	ILE	254	4.216	82.877	11.537	1.00128.65	C
ATOM	1996	CG2	ILE	254	3.097	80.895	12.746	1.00128.65	C
ATOM	1997	CD1	ILE	254	2.982	83.447	10.840	1.00128.65	C
ATOM	1998	C	ILE	254	6.491	81.251	11.155	1.00128.65	C
ATOM	1999	O	ILE	254	6.672	80.546	10.177	1.00128.65	O
ATOM	2000	N	GLY	255	7.090	82.451	11.309	1.00 66.94	N
ATOM	2001	CA	GLY	255	8.055	82.945	10.356	1.00 66.94	C
ATOM	2002	C	GLY	255	9.327	82.131	10.321	1.00 66.94	C
ATOM	2003	O	GLY	255	9.700	81.613	9.274	1.00 66.94	O
ATOM	2004	N	ILE	256	10.002	81.968	11.478	1.00176.60	N
ATOM	2005	CA	ILE	256	11.210	81.208	11.676	1.00176.60	C
ATOM	2006	CB	ILE	256	11.759	81.090	13.095	1.00176.60	C
ATOM	2007	CG1	ILE	256	13.121	80.375	13.088	1.00176.60	C
ATOM	2008	CG2	ILE	256	10.839	80.181	13.937	1.00176.60	C
ATOM	2009	CD1	ILE	256	14.236	81.051	12.326	1.00176.60	C
ATOM	2010	C	ILE	256	10.800	79.846	11.371	1.00176.60	C
ATOM	2011	O	ILE	256	11.664	79.009	11.210	1.00176.60	O
ATOM	2012	N	LYS	257	9.493	79.585	11.539	1.00216.58	N
ATOM	2013	CA	LYS	257	8.781	78.371	11.286	1.00216.58	C
ATOM	2014	CB	LYS	257	7.379	78.225	11.919	1.00216.58	C
ATOM	2015	CG	LYS	257	7.332	77.805	13.396	1.00216.58	C
ATOM	2016	CD	LYS	257	8.021	76.490	13.739	1.00216.58	C
ATOM	2017	CE	LYS	257	8.013	76.196	15.244	1.00216.58	C
ATOM	2018	NZ	LYS	257	8.712	77.275	15.984	1.00216.58	N
ATOM	2019	C	LYS	257	8.552	78.196	9.829	1.00216.58	C
ATOM	2020	O	LYS	257	8.178	77.111	9.415	1.00216.58	O
ATOM	2021	N	LYS	258	8.558	79.275	9.032	1.00141.05	N
ATOM	2022	CA	LYS	258	8.377	79.115	7.628	1.00141.05	C
ATOM	2023	CB	LYS	258	8.088	80.412	6.850	1.00141.05	C
ATOM	2024	CG	LYS	258	9.320	81.275	6.583	1.00141.05	C
ATOM	2025	CD	LYS	258	9.101	82.340	5.506	1.00141.05	C
ATOM	2026	CE	LYS	258	9.003	81.760	4.093	1.00141.05	C
ATOM	2027	NZ	LYS	258	8.792	82.846	3.111	1.00141.05	N
ATOM	2028	C	LYS	258	9.682	78.609	7.202	1.00141.05	C
ATOM	2029	O	LYS	258	9.773	77.814	6.278	1.00141.05	O
ATOM	2030	N	ALA	259	10.717	79.166	7.859	1.00 78.84	N
ATOM	2031	CA	ALA	259	12.091	78.804	7.778	1.00 78.84	C
ATOM	2032	CB	ALA	259	13.010	79.788	8.519	1.00 78.84	C
ATOM	2033	C	ALA	259	12.238	77.469	8.428	1.00 78.84	C
ATOM	2034	O	ALA	259	13.115	76.707	8.055	1.00 78.84	O
ATOM	2035	N	ILE	260	11.458	77.191	9.490	1.00105.94	N
ATOM	2036	CA	ILE	260	11.554	75.960	10.221	1.00105.94	C
ATOM	2037	CB	ILE	260	10.826	75.936	11.535	1.00105.94	C
ATOM	2038	CG1	ILE	260	11.656	76.667	12.605	1.00105.94	C
ATOM	2039	CG2	ILE	260	10.506	74.472	11.879	1.00105.94	C
ATOM	2040	CD1	ILE	260	10.930	76.919	13.922	1.00105.94	C
ATOM	2041	C	ILE	260	11.001	74.903	9.364	1.00105.94	C
ATOM	2042	O	ILE	260	11.659	73.915	9.064	1.00105.94	O
ATOM	2043	N	THR	261	9.788	75.181	8.878	1.00171.40	N
ATOM	2044	CA	THR	261	9.016	74.388	7.987	1.00171.40	C
ATOM	2045	CB	THR	261	7.614	74.896	7.780	1.00171.40	C
ATOM	2046	CG1	THR	261	6.925	74.915	9.019	1.00171.40	O
ATOM	2047	CG2	THR	261	6.860	73.969	6.813	1.00171.40	C
ATOM	2048	C	THR	261	9.761	74.456	6.707	1.00171.40	C
ATOM	2049	O	THR	261	9.366	73.833	5.734	1.00171.40	O
ATOM	2050	N	ALA	262	10.679	75.434	6.618	1.00106.54	N
ATOM	2051	CA	ALA	262	11.650	75.626	5.577	1.00106.54	C
ATOM	2052	CB	ALA	262	12.254	77.029	5.457	1.00106.54	C
ATOM	2053	C	ALA	262	12.822	74.722	5.744	1.00106.54	C
ATOM	2054	O	ALA	262	13.530	74.480	4.778	1.00106.54	O
ATOM	2055	N	ASN	263	13.195	74.389	6.995	1.00120.50	N
ATOM	2056	CA	ASN	263	14.257	73.470	7.249	1.00120.50	C
ATOM	2057	CB	ASN	263	14.623	73.362	8.737	1.00120.50	C
ATOM	2058	CG	ASN	263	15.305	74.654	9.146	1.00120.50	C
ATOM	2059	OD1	ASN	263	14.695	75.520	9.771	1.00120.50	O
ATOM	2060	ND2	ASN	263	16.606	74.793	8.777	1.00120.50	N
ATOM	2061	C	ASN	263	13.601	72.208	6.879	1.00120.50	C
ATOM	2062	O	ASN	263	14.147	71.313	6.243	1.00120.50	O
ATOM	2063	N	ILE	264	12.333	72.145	7.282	1.00130.81	N
ATOM	2064	CA	ILE	264	11.570	70.997	6.979	1.00130.81	C
ATOM	2065	CB	ILE	264	10.181	71.090	7.532	1.00130.81	C

ATOM	2066	CG1	ILE	264	10.234	71.159	9.066	1.00130.81	C
ATOM	2067	CG2	ILE	264	9.371	69.900	6.997	1.00130.81	C
ATOM	2068	CD1	ILE	264	10.875	69.922	9.695	1.00130.81	C
ATOM	2069	C	ILE	264	11.481	70.982	5.500	1.00130.81	C
ATOM	2070	O	ILE	264	11.818	70.011	4.830	1.00130.81	O
ATOM	2071	N	SER	265	11.124	72.144	4.958	1.00116.49	N
ATOM	2072	CA	SER	265	10.913	72.329	3.568	1.00116.49	C
ATOM	2073	CB	SER	265	10.471	73.761	3.227	1.00116.49	C
ATOM	2074	OG	SER	265	10.271	73.896	1.830	1.00116.49	O
ATOM	2075	C	SER	265	12.223	72.078	2.923	1.00116.49	C
ATOM	2076	O	SER	265	12.282	71.868	1.717	1.00116.49	O
ATOM	2077	N	ILE	266	13.313	72.181	3.709	1.00159.67	N
ATOM	2078	CA	ILE	266	14.626	71.982	3.177	1.00159.67	C
ATOM	2079	CB	ILE	266	15.813	72.542	3.928	1.00159.67	C
ATOM	2080	CG1	ILE	266	16.876	72.950	2.891	1.00159.67	C
ATOM	2081	CG2	ILE	266	16.439	71.449	4.810	1.00159.67	C
ATOM	2082	CD1	ILE	266	16.447	74.109	1.993	1.00159.67	C
ATOM	2083	C	ILE	266	14.819	70.526	3.032	1.00159.67	C
ATOM	2084	O	ILE	266	15.421	70.072	2.063	1.00159.67	O
ATOM	2085	N	GLY	267	14.313	69.762	4.023	1.00 50.95	N
ATOM	2086	CA	GLY	267	14.435	68.341	3.958	1.00 50.95	C
ATOM	2087	C	GLY	267	13.742	68.020	2.680	1.00 50.95	C
ATOM	2088	O	GLY	267	14.193	67.201	1.880	1.00 50.95	O
ATOM	2089	N	ALA	268	12.631	68.738	2.455	1.00 59.45	N
ATOM	2090	CA	ALA	268	11.863	68.626	1.261	1.00 59.45	C
ATOM	2091	CB	ALA	268	10.604	69.508	1.282	1.00 59.45	C
ATOM	2092	C	ALA	268	12.706	69.059	0.099	1.00 59.45	C
ATOM	2093	O	ALA	268	12.605	68.482	-0.979	1.00 59.45	O
ATOM	2094	N	ALA	269	13.533	70.115	0.250	1.00 81.56	N
ATOM	2095	CA	ALA	269	14.288	70.548	-0.891	1.00 81.56	C
ATOM	2096	CB	ALA	269	15.120	71.809	-0.609	1.00 81.56	C
ATOM	2097	C	ALA	269	15.243	69.473	-1.291	1.00 81.56	C
ATOM	2098	O	ALA	269	15.042	68.837	-2.322	1.00 81.56	O
ATOM	2099	N	PHE	270	16.184	69.114	-0.387	1.00 98.03	N
ATOM	2100	CA	PHE	270	17.214	68.168	-0.703	1.00 98.03	C
ATOM	2101	CB	PHE	270	18.118	67.777	0.482	1.00 98.03	C
ATOM	2102	CG	PHE	270	19.208	68.774	0.669	1.00 98.03	C
ATOM	2103	CD1	PHE	270	20.279	68.773	-0.196	1.00 98.03	C
ATOM	2104	CD2	PHE	270	19.191	69.675	1.709	1.00 98.03	C
ATOM	2105	CE1	PHE	270	21.309	69.671	-0.044	1.00 98.03	C
ATOM	2106	CE2	PHE	270	20.220	70.575	1.867	1.00 98.03	C
ATOM	2107	CZ	PHE	270	21.278	70.576	0.989	1.00 98.03	C
ATOM	2108	C	PHE	270	16.582	66.894	-1.146	1.00 98.03	C
ATOM	2109	O	PHE	270	17.073	66.283	-2.089	1.00 98.03	O
ATOM	2110	N	LEU	271	15.528	66.431	-0.444	1.00 76.66	N
ATOM	2111	CA	LEU	271	14.853	65.196	-0.766	1.00 76.66	C
ATOM	2112	CB	LEU	271	13.880	64.733	0.331	1.00 76.66	C
ATOM	2113	CG	LEU	271	14.580	64.311	1.635	1.00 76.66	C
ATOM	2114	CD1	LEU	271	13.561	63.853	2.690	1.00 76.66	C
ATOM	2115	CD2	LEU	271	15.676	63.264	1.365	1.00 76.66	C
ATOM	2116	C	LEU	271	14.071	65.257	-2.055	1.00 76.66	C
ATOM	2117	O	LEU	271	14.147	64.336	-2.867	1.00 76.66	O
ATOM	2118	N	LEU	272	13.293	66.334	-2.284	1.00 65.53	N
ATOM	2119	CA	LEU	272	12.487	66.451	-3.474	1.00 65.53	C
ATOM	2120	CB	LEU	272	11.761	67.807	-3.536	1.00 65.53	C
ATOM	2121	CG	LEU	272	10.891	68.018	-4.788	1.00 65.53	C
ATOM	2122	CD1	LEU	272	9.680	67.077	-4.804	1.00 65.53	C
ATOM	2123	CD2	LEU	272	10.494	69.494	-4.944	1.00 65.53	C
ATOM	2124	C	LEU	272	13.437	66.420	-4.620	1.00 65.53	C
ATOM	2125	O	LEU	272	13.247	65.713	-5.608	1.00 65.53	O
ATOM	2126	N	ILE	273	14.513	67.201	-4.469	1.00124.11	N
ATOM	2127	CA	ILE	273	15.589	67.325	-5.398	1.00124.11	C
ATOM	2128	CB	ILE	273	16.583	68.366	-4.979	1.00124.11	C
ATOM	2129	CG1	ILE	273	15.883	69.729	-4.874	1.00124.11	C
ATOM	2130	CG2	ILE	273	17.757	68.345	-5.972	1.00124.11	C
ATOM	2131	CD1	ILE	273	15.174	70.142	-6.162	1.00124.11	C
ATOM	2132	C	ILE	273	16.284	66.008	-5.440	1.00124.11	C
ATOM	2133	O	ILE	273	16.960	65.678	-6.410	1.00124.11	O
ATOM	2134	N	TYR	274	16.228	65.273	-4.318	1.00169.70	N
ATOM	2135	CA	TYR	274	16.859	63.996	-4.238	1.00169.70	C
ATOM	2136	CB	TYR	274	16.765	63.407	-2.816	1.00169.70	C
ATOM	2137	CG	TYR	274	17.120	61.959	-2.821	1.00169.70	C
ATOM	2138	CD1	TYR	274	18.407	61.524	-3.038	1.00169.70	C
ATOM	2139	CD2	TYR	274	16.130	61.026	-2.628	1.00169.70	C

ATOM	2140	CE1	TYR	274	18.696	60.177	-3.036	1.00169.70	C
ATOM	2141	CE2	TYR	274	16.409	59.681	-2.623	1.00169.70	C
ATOM	2142	CZ	TYR	274	17.697	59.255	-2.826	1.00169.70	C
ATOM	2143	OH	TYR	274	17.987	57.875	-2.821	1.00169.70	O
ATOM	2144	C	TYR	274	16.189	63.113	-5.228	1.00169.70	C
ATOM	2145	O	TYR	274	16.837	62.589	-6.117	1.00169.70	O
ATOM	2146	N	ALA	275	14.856	63.017	-5.197	1.00 64.59	N
ATOM	2147	CA	ALA	275	14.158	62.165	-6.112	1.00 64.59	C
ATOM	2148	CB	ALA	275	12.634	62.184	-5.899	1.00 64.59	C
ATOM	2149	C	ALA	275	14.437	62.659	-7.489	1.00 64.59	C
ATOM	2150	O	ALA	275	14.426	61.874	-8.436	1.00 64.59	O
ATOM	2151	N	SER	276	14.640	63.985	-7.643	1.00 89.49	N
ATOM	2152	CA	SER	276	14.902	64.514	-8.949	1.00 89.49	C
ATOM	2153	CB	SER	276	15.050	66.045	-9.032	1.00 89.49	C
ATOM	2154	OG	SER	276	16.391	66.441	-8.795	1.00 89.49	O
ATOM	2155	C	SER	276	16.183	63.907	-9.414	1.00 89.49	C
ATOM	2156	O	SER	276	16.331	63.644	-10.607	1.00 89.49	O
ATOM	2157	N	TYR	277	17.119	63.636	-8.470	1.00147.87	N
ATOM	2158	CA	TYR	277	18.373	63.035	-8.820	1.00147.87	C
ATOM	2159	CB	TYR	277	19.337	62.628	-7.652	1.00147.87	C
ATOM	2160	CG	TYR	277	19.336	61.150	-7.306	1.00147.87	C
ATOM	2161	CD1	TYR	277	20.042	60.237	-8.059	1.00147.87	C
ATOM	2162	CD2	TYR	277	18.676	60.641	-6.211	1.00147.87	C
ATOM	2163	CE1	TYR	277	20.035	58.896	-7.733	1.00147.87	C
ATOM	2164	CE2	TYR	277	18.657	59.311	-5.873	1.00147.87	C
ATOM	2165	CZ	TYR	277	19.346	58.421	-6.650	1.00147.87	C
ATOM	2166	OH	TYR	277	19.356	57.044	-6.342	1.00147.87	O
ATOM	2167	C	TYR	277	17.945	61.771	-9.451	1.00147.87	C
ATOM	2168	O	TYR	277	18.376	61.478	-10.551	1.00147.87	O
ATOM	2169	N	ALA	278	16.984	61.062	-8.831	1.00 53.42	N
ATOM	2170	CA	ALA	278	16.542	59.797	-9.326	1.00 53.42	C
ATOM	2171	CB	ALA	278	15.384	59.216	-8.500	1.00 53.42	C
ATOM	2172	C	ALA	278	16.039	60.007	-10.715	1.00 53.42	C
ATOM	2173	O	ALA	278	16.280	59.185	-11.597	1.00 53.42	O
ATOM	2174	N	LEU	279	15.347	61.136	-10.947	1.00108.27	N
ATOM	2175	CA	LEU	279	14.750	61.405	-12.223	1.00108.27	C
ATOM	2176	CB	LEU	279	14.209	62.845	-12.224	1.00108.27	C
ATOM	2177	CG	LEU	279	13.443	63.298	-13.476	1.00108.27	C
ATOM	2178	CD1	LEU	279	12.004	62.759	-13.475	1.00108.27	C
ATOM	2179	CD2	LEU	279	13.516	64.822	-13.644	1.00108.27	C
ATOM	2180	C	LEU	279	15.802	61.360	-13.299	1.00108.27	C
ATOM	2181	O	LEU	279	15.866	60.425	-14.092	1.00108.27	O
ATOM	2182	N	ALA	280	16.742	62.315	-13.291	1.00 60.62	N
ATOM	2183	CA	ALA	280	17.728	62.360	-14.331	1.00 60.62	C
ATOM	2184	CB	ALA	280	18.697	63.544	-14.181	1.00 60.62	C
ATOM	2185	C	ALA	280	18.518	61.109	-14.224	1.00 60.62	C
ATOM	2186	O	ALA	280	18.993	60.566	-15.219	1.00 60.62	O
ATOM	2187	N	PHE	281	18.674	60.631	-12.980	1.00134.97	N
ATOM	2188	CA	PHE	281	19.491	59.497	-12.691	1.00134.97	C
ATOM	2189	CB	PHE	281	19.266	59.020	-11.250	1.00134.97	C
ATOM	2190	CG	PHE	281	20.388	58.224	-10.691	1.00134.97	C
ATOM	2191	CD1	PHE	281	21.518	58.875	-10.254	1.00134.97	C
ATOM	2192	CD2	PHE	281	20.316	56.855	-10.589	1.00134.97	C
ATOM	2193	CE1	PHE	281	22.559	58.170	-9.707	1.00134.97	C
ATOM	2194	CE2	PHE	281	21.360	56.144	-10.046	1.00134.97	C
ATOM	2195	CZ	PHE	281	22.482	56.802	-9.602	1.00134.97	C
ATOM	2196	C	PHE	281	19.018	58.392	-13.558	1.00134.97	C
ATOM	2197	O	PHE	281	19.649	58.067	-14.555	1.00134.97	O
ATOM	2198	N	TRP	282	17.814	57.886	-13.282	1.00108.81	N
ATOM	2199	CA	TRP	282	17.328	56.751	-13.997	1.00108.81	C
ATOM	2200	CB	TRP	282	16.035	56.179	-13.397	1.00108.81	C
ATOM	2201	CG	TRP	282	16.260	55.629	-12.012	1.00108.81	C
ATOM	2202	CD2	TRP	282	17.259	54.642	-11.723	1.00108.81	C
ATOM	2203	CD1	TRP	282	15.676	55.953	-10.821	1.00108.81	C
ATOM	2204	NE1	TRP	282	16.242	55.216	-9.808	1.00108.81	N
ATOM	2205	CE2	TRP	282	17.221	54.408	-10.350	1.00108.81	C
ATOM	2206	CE3	TRP	282	18.141	53.993	-12.538	1.00108.81	C
ATOM	2207	CZ2	TRP	282	18.071	53.512	-9.768	1.00108.81	C
ATOM	2208	CZ3	TRP	282	18.991	53.084	-11.950	1.00108.81	C
ATOM	2209	CH2	TRP	282	18.955	52.849	-10.591	1.00108.81	C
ATOM	2210	C	TRP	282	17.063	57.106	-15.418	1.00108.81	C
ATOM	2211	O	TRP	282	17.338	56.310	-16.312	1.00108.81	O
ATOM	2212	N	TYR	283	16.510	58.306	-15.671	1.00 83.33	N
ATOM	2213	CA	TYR	283	16.114	58.600	-17.015	1.00 83.33	C

ATOM	2214	CB	TYR	283	15.415	59.964	-17.134	1.00	83.33	C
ATOM	2215	CG	TYR	283	14.737	60.003	-18.459	1.00	83.33	C
ATOM	2216	CD1	TYR	283	13.515	59.389	-18.612	1.00	83.33	C
ATOM	2217	CD2	TYR	283	15.301	60.645	-19.536	1.00	83.33	C
ATOM	2218	CE1	TYR	283	12.863	59.409	-19.821	1.00	83.33	C
ATOM	2219	CE2	TYR	283	14.653	60.668	-20.749	1.00	83.33	C
ATOM	2220	CZ	TYR	283	13.433	60.050	-20.893	1.00	83.33	C
ATOM	2221	OH	TYR	283	12.769	60.073	-22.137	1.00	83.33	O
ATOM	2222	C	TYR	283	17.306	58.612	-17.924	1.00	83.33	C
ATOM	2223	O	TYR	283	17.386	57.817	-18.857	1.00	83.33	O
ATOM	2224	N	GLY	284	18.319	59.439	-17.617	1.00	44.36	N
ATOM	2225	CA	GLY	284	19.460	59.562	-18.476	1.00	44.36	C
ATOM	2226	C	GLY	284	20.093	58.218	-18.539	1.00	44.36	C
ATOM	2227	O	GLY	284	20.716	57.856	-19.535	1.00	44.36	O
ATOM	2228	N	THR	285	19.998	57.474	-17.425	1.00	76.97	N
ATOM	2229	CA	THR	285	20.549	56.156	-17.338	1.00	76.97	C
ATOM	2230	CB	THR	285	20.358	55.525	-15.992	1.00	76.97	C
ATOM	2231	OG1	THR	285	21.227	56.100	-15.029	1.00	76.97	O
ATOM	2232	CG2	THR	285	20.546	54.009	-16.119	1.00	76.97	C
ATOM	2233	C	THR	285	19.915	55.217	-18.301	1.00	76.97	C
ATOM	2234	O	THR	285	20.607	54.581	-19.090	1.00	76.97	O
ATOM	2235	N	THR	286	18.577	55.132	-18.286	1.00	122.59	N
ATOM	2236	CA	THR	286	17.882	54.165	-19.073	1.00	122.59	C
ATOM	2237	CB	THR	286	16.392	54.254	-18.920	1.00	122.59	C
ATOM	2238	OG1	THR	286	15.925	55.510	-19.390	1.00	122.59	O
ATOM	2239	CG2	THR	286	16.036	54.078	-17.435	1.00	122.59	C
ATOM	2240	C	THR	286	18.180	54.401	-20.513	1.00	122.59	C
ATOM	2241	O	THR	286	18.555	53.476	-21.232	1.00	122.59	O
ATOM	2242	N	LEU	287	18.067	55.662	-20.965	1.00	53.07	N
ATOM	2243	CA	LEU	287	18.265	55.929	-22.358	1.00	53.07	C
ATOM	2244	CB	LEU	287	18.151	57.423	-22.698	1.00	53.07	C
ATOM	2245	CG	LEU	287	18.357	57.729	-24.195	1.00	53.07	C
ATOM	2246	CD1	LEU	287	17.245	57.116	-25.059	1.00	53.07	C
ATOM	2247	CD2	LEU	287	18.543	59.236	-24.431	1.00	53.07	C
ATOM	2248	C	LEU	287	19.646	55.496	-22.728	1.00	53.07	C
ATOM	2249	O	LEU	287	19.847	54.765	-23.696	1.00	53.07	O
ATOM	2250	N	VAL	288	20.626	55.899	-21.911	1.00	110.10	N
ATOM	2251	CA	VAL	288	22.014	55.626	-22.134	1.00	110.10	C
ATOM	2252	CB	VAL	288	22.907	56.487	-21.269	1.00	110.10	C
ATOM	2253	CG1	VAL	288	24.391	56.176	-21.529	1.00	110.10	C
ATOM	2254	CG2	VAL	288	22.555	57.953	-21.566	1.00	110.10	C
ATOM	2255	C	VAL	288	22.254	54.159	-21.904	1.00	110.10	C
ATOM	2256	O	VAL	288	23.385	53.699	-21.992	1.00	110.10	O
ATOM	2257	N	LEU	289	21.273	53.434	-21.334	1.00	157.50	N
ATOM	2258	CA	LEU	289	21.393	52.009	-21.169	1.00	157.50	C
ATOM	2259	CB	LEU	289	20.638	51.505	-19.924	1.00	157.50	C
ATOM	2260	CG	LEU	289	21.109	50.133	-19.393	1.00	157.50	C
ATOM	2261	CD1	LEU	289	20.852	48.969	-20.358	1.00	157.50	C
ATOM	2262	CD2	LEU	289	22.579	50.221	-18.964	1.00	157.50	C
ATOM	2263	C	LEU	289	20.889	51.273	-22.378	1.00	157.50	C
ATOM	2264	O	LEU	289	21.393	50.209	-22.724	1.00	157.50	O
ATOM	2265	N	SER	290	19.805	51.778	-23.004	1.00	65.06	N
ATOM	2266	CA	SER	290	19.209	51.100	-24.120	1.00	65.06	C
ATOM	2267	CB	SER	290	17.813	51.645	-24.466	1.00	65.06	C
ATOM	2268	OG	SER	290	16.908	51.371	-23.406	1.00	65.06	O
ATOM	2269	C	SER	290	20.067	51.226	-25.340	1.00	65.06	C
ATOM	2270	O	SER	290	20.302	50.237	-26.035	1.00	65.06	O
ATOM	2271	N	GLY	291	20.488	52.465	-25.681	1.00	65.65	N
ATOM	2272	CA	GLY	291	21.270	52.624	-26.875	1.00	65.65	C
ATOM	2273	C	GLY	291	22.675	52.098	-26.767	1.00	65.65	C
ATOM	2274	O	GLY	291	23.029	51.105	-27.393	1.00	65.65	O
ATOM	2275	N	GLU	292	23.497	52.694	-25.885	1.00	84.39	N
ATOM	2276	CA	GLU	292	24.889	52.344	-25.814	1.00	84.39	C
ATOM	2277	CB	GLU	292	25.813	53.539	-26.103	1.00	84.39	C
ATOM	2278	CG	GLU	292	25.583	54.704	-25.136	1.00	84.39	C
ATOM	2279	CD	GLU	292	26.537	55.832	-25.497	1.00	84.39	C
ATOM	2280	OE1	GLU	292	27.361	55.633	-26.428	1.00	84.39	O
ATOM	2281	OE2	GLU	292	26.455	56.908	-24.845	1.00	84.39	O
ATOM	2282	C	GLU	292	25.133	51.936	-24.410	1.00	84.39	C
ATOM	2283	O	GLU	292	24.192	51.992	-23.627	1.00	84.39	O
ATOM	2284	N	TYR	293	26.357	51.435	-24.102	1.00	115.06	N
ATOM	2285	CA	TYR	293	26.799	51.120	-22.764	1.00	115.06	C
ATOM	2286	CB	TYR	293	27.192	52.414	-22.015	1.00	115.06	C
ATOM	2287	CG	TYR	293	27.890	52.137	-20.725	1.00	115.06	C

ATOM	2288	CD1	TYR	293	29.180	51.657	-20.720	1.00115.06	C
ATOM	2289	CD2	TYR	293	27.277	52.405	-19.523	1.00115.06	C
ATOM	2290	CE1	TYR	293	29.834	51.415	-19.535	1.00115.06	C
ATOM	2291	CE2	TYR	293	27.925	52.165	-18.334	1.00115.06	C
ATOM	2292	CZ	TYR	293	29.205	51.666	-18.340	1.00115.06	C
ATOM	2293	OH	TYR	293	29.875	51.418	-17.123	1.00115.06	O
ATOM	2294	C	TYR	293	25.690	50.409	-22.039	1.00115.06	C
ATOM	2295	O	TYR	293	25.306	50.827	-20.953	1.00115.06	O
ATOM	2296	N	SER	294	25.130	49.323	-22.620	1.00100.20	N
ATOM	2297	CA	SER	294	23.960	48.708	-22.038	1.00100.20	C
ATOM	2298	CB	SER	294	23.162	47.885	-23.066	1.00100.20	C
ATOM	2299	OG	SER	294	22.842	48.677	-24.200	1.00100.20	O
ATOM	2300	C	SER	294	24.367	47.721	-20.981	1.00100.20	C
ATOM	2301	O	SER	294	24.287	46.512	-21.191	1.00100.20	O
ATOM	2302	N	ILE	295	24.898	48.232	-19.854	1.00211.98	N
ATOM	2303	CA	ILE	295	25.334	47.479	-18.704	1.00211.98	C
ATOM	2304	CB	ILE	295	26.562	48.116	-18.105	1.00211.98	C
ATOM	2305	CG1	ILE	295	26.290	49.508	-17.498	1.00211.98	C
ATOM	2306	CG2	ILE	295	27.659	48.104	-19.181	1.00211.98	C
ATOM	2307	CD1	ILE	295	25.424	50.494	-18.257	1.00211.98	C
ATOM	2308	C	ILE	295	24.317	47.175	-17.622	1.00211.98	C
ATOM	2309	O	ILE	295	24.343	46.100	-17.022	1.00211.98	O
ATOM	2310	N	GLY	296	23.455	48.156	-17.250	1.00 83.25	N
ATOM	2311	CA	GLY	296	22.605	48.022	-16.083	1.00 83.25	C
ATOM	2312	C	GLY	296	23.526	48.317	-14.925	1.00 83.25	C
ATOM	2313	O	GLY	296	23.192	48.126	-13.756	1.00 83.25	O
ATOM	2314	N	GLN	297	24.784	48.628	-15.299	1.00190.18	N
ATOM	2315	CA	GLN	297	25.950	48.996	-14.547	1.00190.18	C
ATOM	2316	CB	GLN	297	27.276	48.365	-14.992	1.00190.18	C
ATOM	2317	CG	GLN	297	28.261	48.420	-13.833	1.00190.18	C
ATOM	2318	CD	GLN	297	27.477	47.838	-12.666	1.00190.18	C
ATOM	2319	OE1	GLN	297	27.031	46.692	-12.716	1.00190.18	O
ATOM	2320	NE2	GLN	297	27.270	48.662	-11.604	1.00190.18	N
ATOM	2321	C	GLN	297	26.134	50.462	-14.377	1.00190.18	C
ATOM	2322	O	GLN	297	27.060	50.892	-13.696	1.00190.18	O
ATOM	2323	N	VAL	298	25.337	51.302	-15.063	1.00 93.68	N
ATOM	2324	CA	VAL	298	25.455	52.727	-14.883	1.00 93.68	C
ATOM	2325	CB	VAL	298	24.396	53.474	-15.612	1.00 93.68	C
ATOM	2326	CG1	VAL	298	24.669	53.402	-17.122	1.00 93.68	C
ATOM	2327	CG2	VAL	298	23.068	52.823	-15.202	1.00 93.68	C
ATOM	2328	C	VAL	298	25.254	52.981	-13.424	1.00 93.68	C
ATOM	2329	O	VAL	298	25.720	53.983	-12.882	1.00 93.68	O
ATOM	2330	N	LEU	299	24.560	52.045	-12.754	1.00125.67	N
ATOM	2331	CA	LEU	299	24.255	52.134	-11.369	1.00125.67	C
ATOM	2332	CB	LEU	299	23.759	50.784	-10.832	1.00125.67	C
ATOM	2333	CG	LEU	299	23.407	50.779	-9.335	1.00125.67	C
ATOM	2334	CD1	LEU	299	22.183	51.661	-9.040	1.00125.67	C
ATOM	2335	CD2	LEU	299	23.259	49.337	-8.819	1.00125.67	C
ATOM	2336	C	LEU	299	25.497	52.472	-10.610	1.00125.67	C
ATOM	2337	O	LEU	299	25.529	53.551	-10.023	1.00125.67	O
ATOM	2338	N	THR	300	26.577	51.661	-10.704	1.00142.95	N
ATOM	2339	CA	THR	300	27.729	51.893	-9.876	1.00142.95	C
ATOM	2340	CB	THR	300	28.856	50.929	-10.130	1.00142.95	C
ATOM	2341	OG1	THR	300	29.841	51.069	-9.122	1.00142.95	O
ATOM	2342	CG2	THR	300	29.477	51.183	-11.513	1.00142.95	C
ATOM	2343	C	THR	300	28.231	53.289	-10.077	1.00142.95	C
ATOM	2344	O	THR	300	28.525	53.986	-9.108	1.00142.95	O
ATOM	2345	N	VAL	301	28.313	53.748	-11.336	1.00101.96	N
ATOM	2346	CA	VAL	301	28.844	55.059	-11.578	1.00101.96	C
ATOM	2347	CB	VAL	301	28.905	55.354	-13.043	1.00101.96	C
ATOM	2348	CG1	VAL	301	29.610	56.704	-13.250	1.00101.96	C
ATOM	2349	CG2	VAL	301	29.539	54.154	-13.761	1.00101.96	C
ATOM	2350	C	VAL	301	27.981	56.126	-10.957	1.00101.96	C
ATOM	2351	O	VAL	301	28.343	56.696	-9.931	1.00101.96	O
ATOM	2352	N	PHE	302	26.752	56.329	-11.486	1.00103.44	N
ATOM	2353	CA	PHE	302	25.915	57.423	-11.058	1.00103.44	C
ATOM	2354	CB	PHE	302	24.529	57.396	-11.730	1.00103.44	C
ATOM	2355	CG	PHE	302	24.605	57.777	-13.169	1.00103.44	C
ATOM	2356	CD1	PHE	302	24.954	56.851	-14.124	1.00103.44	C
ATOM	2357	CD2	PHE	302	24.301	59.062	-13.563	1.00103.44	C
ATOM	2358	CE1	PHE	302	25.014	57.206	-15.451	1.00103.44	C
ATOM	2359	CE2	PHE	302	24.360	59.421	-14.889	1.00103.44	C
ATOM	2360	CZ	PHE	302	24.717	58.491	-15.836	1.00103.44	C
ATOM	2361	C	PHE	302	25.698	57.325	-9.575	1.00103.44	C

ATOM	2362	O	PHE	302	25.912	58.290	-8.844	1.00103.44	O
ATOM	2363	N	PHE	303	25.341	56.130	-9.079	1.00 93.10	N
ATOM	2364	CA	PHE	303	25.058	55.935	-7.686	1.00 93.10	C
ATOM	2365	CB	PHE	303	24.757	54.449	-7.396	1.00 93.10	C
ATOM	2366	CG	PHE	303	24.378	54.243	-5.968	1.00 93.10	C
ATOM	2367	CD1	PHE	303	23.086	54.467	-5.547	1.00 93.10	C
ATOM	2368	CD2	PHE	303	25.309	53.820	-5.049	1.00 93.10	C
ATOM	2369	CE1	PHE	303	22.733	54.274	-4.231	1.00 93.10	C
ATOM	2370	CE2	PHE	303	24.961	53.623	-3.732	1.00 93.10	C
ATOM	2371	CZ	PHE	303	23.671	53.851	-3.320	1.00 93.10	C
ATOM	2372	C	PHE	303	26.258	56.374	-6.891	1.00 93.10	C
ATOM	2373	O	PHE	303	26.116	57.026	-5.856	1.00 93.10	O
ATOM	2374	N	SER	304	27.472	56.026	-7.357	1.00 51.65	N
ATOM	2375	CA	SER	304	28.705	56.348	-6.691	1.00 51.65	C
ATOM	2376	CB	SER	304	29.923	55.709	-7.378	1.00 51.65	C
ATOM	2377	OG	SER	304	31.112	56.059	-6.685	1.00 51.65	O
ATOM	2378	C	SER	304	28.939	57.831	-6.660	1.00 51.65	C
ATOM	2379	O	SER	304	29.368	58.363	-5.637	1.00 51.65	O
ATOM	2380	N	VAL	305	28.663	58.555	-7.765	1.00106.79	N
ATOM	2381	CA	VAL	305	28.914	59.970	-7.745	1.00106.79	C
ATOM	2382	CB	VAL	305	28.580	60.678	-9.034	1.00106.79	C
ATOM	2383	CG1	VAL	305	27.054	60.748	-9.191	1.00106.79	C
ATOM	2384	CG2	VAL	305	29.248	62.065	-9.020	1.00106.79	C
ATOM	2385	C	VAL	305	28.058	60.541	-6.656	1.00106.79	C
ATOM	2386	O	VAL	305	28.449	61.469	-5.950	1.00106.79	O
ATOM	2387	N	LEU	306	26.862	59.961	-6.470	1.00121.37	N
ATOM	2388	CA	LEU	306	25.937	60.436	-5.486	1.00121.37	C
ATOM	2389	CB	LEU	306	24.638	59.609	-5.521	1.00121.37	C
ATOM	2390	CG	LEU	306	23.453	60.147	-4.696	1.00121.37	C
ATOM	2391	CD1	LEU	306	22.238	59.223	-4.852	1.00121.37	C
ATOM	2392	CD2	LEU	306	23.808	60.365	-3.222	1.00121.37	C
ATOM	2393	C	LEU	306	26.600	60.319	-4.144	1.00121.37	C
ATOM	2394	O	LEU	306	26.493	61.214	-3.307	1.00121.37	O
ATOM	2395	N	ILE	307	27.355	59.227	-3.929	1.00 99.73	N
ATOM	2396	CA	ILE	307	28.034	59.003	-2.686	1.00 99.73	C
ATOM	2397	CB	ILE	307	28.917	57.784	-2.710	1.00 99.73	C
ATOM	2398	CG1	ILE	307	28.096	56.515	-3.006	1.00 99.73	C
ATOM	2399	CG2	ILE	307	29.663	57.718	-1.366	1.00 99.73	C
ATOM	2400	CD1	ILE	307	26.995	56.249	-1.982	1.00 99.73	C
ATOM	2401	C	ILE	307	28.906	60.198	-2.482	1.00 99.73	C
ATOM	2402	O	ILE	307	29.091	60.659	-1.358	1.00 99.73	O
ATOM	2403	N	GLY	308	29.465	60.734	-3.583	1.00 36.47	N
ATOM	2404	CA	GLY	308	30.344	61.863	-3.491	1.00 36.47	C
ATOM	2405	C	GLY	308	29.634	63.034	-2.874	1.00 36.47	C
ATOM	2406	O	GLY	308	30.181	63.713	-2.005	1.00 36.47	O
ATOM	2407	N	ALA	309	28.386	63.311	-3.289	1.00 51.05	N
ATOM	2408	CA	ALA	309	27.739	64.478	-2.765	1.00 51.05	C
ATOM	2409	CB	ALA	309	26.333	64.683	-3.351	1.00 51.05	C
ATOM	2410	C	ALA	309	27.587	64.340	-1.280	1.00 51.05	C
ATOM	2411	O	ALA	309	27.976	65.232	-0.527	1.00 51.05	O
ATOM	2412	N	PHE	310	27.098	63.176	-0.810	1.00 64.26	N
ATOM	2413	CA	PHE	310	26.852	63.027	0.597	1.00 64.26	C
ATOM	2414	CB	PHE	310	26.311	61.648	1.019	1.00 64.26	C
ATOM	2415	CG	PHE	310	24.838	61.632	0.797	1.00 64.26	C
ATOM	2416	CD1	PHE	310	24.004	62.139	1.764	1.00 64.26	C
ATOM	2417	CD2	PHE	310	24.284	61.132	-0.356	1.00 64.26	C
ATOM	2418	CE1	PHE	310	22.640	62.142	1.597	1.00 64.26	C
ATOM	2419	CE2	PHE	310	22.918	61.134	-0.523	1.00 64.26	C
ATOM	2420	CZ	PHE	310	22.088	61.636	0.448	1.00 64.26	C
ATOM	2421	C	PHE	310	28.113	63.242	1.357	1.00 64.26	C
ATOM	2422	O	PHE	310	28.118	63.913	2.388	1.00 64.26	O
ATOM	2423	N	SER	311	29.226	62.686	0.860	1.00 57.73	N
ATOM	2424	CA	SER	311	30.463	62.799	1.568	1.00 57.73	C
ATOM	2425	CB	SER	311	31.571	61.959	0.909	1.00 57.73	C
ATOM	2426	OG	SER	311	31.529	62.112	-0.502	1.00 57.73	O
ATOM	2427	C	SER	311	30.863	64.239	1.699	1.00 57.73	C
ATOM	2428	O	SER	311	31.484	64.620	2.690	1.00 57.73	O
ATOM	2429	N	VAL	312	30.497	65.095	0.727	1.00 40.35	N
ATOM	2430	CA	VAL	312	30.842	66.485	0.849	1.00 40.35	C
ATOM	2431	CB	VAL	312	30.375	67.316	-0.312	1.00 40.35	C
ATOM	2432	CG1	VAL	312	30.662	68.796	-0.004	1.00 40.35	C
ATOM	2433	CG2	VAL	312	31.064	66.807	-1.590	1.00 40.35	C
ATOM	2434	C	VAL	312	30.152	66.995	2.069	1.00 40.35	C
ATOM	2435	O	VAL	312	30.671	67.850	2.787	1.00 40.35	O

ATOM	2436	N	GLY	313	28.932	66.492	2.323	1.00	46.18	N
ATOM	2437	CA	GLY	313	28.212	66.970	3.461	1.00	46.18	C
ATOM	2438	C	GLY	313	28.944	66.636	4.723	1.00	46.18	C
ATOM	2439	O	GLY	313	29.210	67.518	5.530	1.00	46.18	O
ATOM	2440	N	GLN	314	29.368	65.375	4.902	1.00	119.34	N
ATOM	2441	CA	GLN	314	29.960	64.978	6.151	1.00	119.34	C
ATOM	2442	CB	GLN	314	30.340	63.491	6.173	1.00	119.34	C
ATOM	2443	CG	GLN	314	30.545	62.958	7.588	1.00	119.34	C
ATOM	2444	CD	GLN	314	29.174	62.924	8.251	1.00	119.34	C
ATOM	2445	OE1	GLN	314	28.280	63.692	7.898	1.00	119.34	O
ATOM	2446	NE2	GLN	314	28.998	62.003	9.236	1.00	119.34	N
ATOM	2447	C	GLN	314	31.195	65.784	6.362	1.00	119.34	C
ATOM	2448	O	GLN	314	31.533	66.166	7.484	1.00	119.34	O
ATOM	2449	N	ALA	315	31.892	66.085	5.260	1.00	36.04	N
ATOM	2450	CA	ALA	315	33.100	66.834	5.349	1.00	36.04	C
ATOM	2451	CB	ALA	315	33.668	67.162	3.958	1.00	36.04	C
ATOM	2452	C	ALA	315	32.764	68.132	6.015	1.00	36.04	C
ATOM	2453	O	ALA	315	33.532	68.628	6.838	1.00	36.04	O
ATOM	2454	N	SER	316	31.590	68.706	5.685	1.00	45.91	N
ATOM	2455	CA	SER	316	31.223	69.999	6.189	1.00	45.91	C
ATOM	2456	CB	SER	316	29.870	70.498	5.647	1.00	45.91	C
ATOM	2457	OG	SER	316	29.570	71.779	6.181	1.00	45.91	O
ATOM	2458	C	SER	316	31.185	70.037	7.691	1.00	45.91	C
ATOM	2459	O	SER	316	31.859	70.894	8.260	1.00	45.91	O
ATOM	2460	N	PRO	317	30.476	69.201	8.409	1.00	75.10	N
ATOM	2461	CA	PRO	317	30.538	69.378	9.833	1.00	75.10	C
ATOM	2462	CD	PRO	317	29.140	68.779	8.023	1.00	75.10	C
ATOM	2463	CB	PRO	317	29.418	68.532	10.425	1.00	75.10	C
ATOM	2464	CG	PRO	317	28.344	68.587	9.327	1.00	75.10	C
ATOM	2465	C	PRO	317	31.883	69.144	10.433	1.00	75.10	C
ATOM	2466	O	PRO	317	32.191	69.769	11.445	1.00	75.10	O
ATOM	2467	N	SER	318	32.703	68.259	9.847	1.00	29.97	N
ATOM	2468	CA	SER	318	33.986	68.026	10.434	1.00	29.97	C
ATOM	2469	CB	SER	318	34.778	66.933	9.700	1.00	29.97	C
ATOM	2470	OG	SER	318	34.102	65.689	9.812	1.00	29.97	O
ATOM	2471	C	SER	318	34.761	69.301	10.343	1.00	29.97	C
ATOM	2472	O	SER	318	35.449	69.694	11.284	1.00	29.97	O
ATOM	2473	N	ILE	319	34.637	69.997	9.199	1.00	36.03	N
ATOM	2474	CA	ILE	319	35.364	71.208	8.950	1.00	36.03	C
ATOM	2475	CB	ILE	319	35.102	71.748	7.577	1.00	36.03	C
ATOM	2476	CG1	ILE	319	35.593	70.746	6.517	1.00	36.03	C
ATOM	2477	CG2	ILE	319	35.762	73.132	7.476	1.00	36.03	C
ATOM	2478	CD1	ILE	319	35.082	71.038	5.109	1.00	36.03	C
ATOM	2479	C	ILE	319	34.946	72.238	9.943	1.00	36.03	C
ATOM	2480	O	ILE	319	35.783	72.950	10.497	1.00	36.03	O
ATOM	2481	N	GLU	320	33.632	72.326	10.215	1.00	70.38	N
ATOM	2482	CA	GLU	320	33.156	73.327	11.118	1.00	70.38	C
ATOM	2483	CB	GLU	320	31.641	73.237	11.361	1.00	70.38	C
ATOM	2484	CG	GLU	320	31.102	74.355	12.255	1.00	70.38	C
ATOM	2485	CD	GLU	320	30.984	75.614	11.407	1.00	70.38	C
ATOM	2486	OE1	GLU	320	30.568	75.490	10.225	1.00	70.38	O
ATOM	2487	OE2	GLU	320	31.310	76.715	11.927	1.00	70.38	O
ATOM	2488	C	GLU	320	33.841	73.104	12.427	1.00	70.38	C
ATOM	2489	O	GLU	320	34.288	74.047	13.075	1.00	70.38	O
ATOM	2490	N	ALA	321	33.998	71.835	12.831	1.00	40.73	N
ATOM	2491	CA	ALA	321	34.596	71.563	14.104	1.00	40.73	C
ATOM	2492	CB	ALA	321	34.718	70.061	14.388	1.00	40.73	C
ATOM	2493	C	ALA	321	35.975	72.142	14.129	1.00	40.73	C
ATOM	2494	O	ALA	321	36.363	72.778	15.108	1.00	40.73	O
ATOM	2495	N	PHE	322	36.743	71.975	13.037	1.00	107.86	N
ATOM	2496	CA	PHE	322	38.096	72.449	13.036	1.00	107.86	C
ATOM	2497	CB	PHE	322	38.825	72.202	11.702	1.00	107.86	C
ATOM	2498	CG	PHE	322	40.221	72.716	11.843	1.00	107.86	C
ATOM	2499	CD1	PHE	322	40.526	74.040	11.608	1.00	107.86	C
ATOM	2500	CD2	PHE	322	41.234	71.863	12.216	1.00	107.86	C
ATOM	2501	CE1	PHE	322	41.816	74.501	11.743	1.00	107.86	C
ATOM	2502	CE2	PHE	322	42.525	72.316	12.353	1.00	107.86	C
ATOM	2503	CZ	PHE	322	42.817	73.637	12.116	1.00	107.86	C
ATOM	2504	C	PHE	322	38.095	73.925	13.269	1.00	107.86	C
ATOM	2505	O	PHE	322	38.751	74.410	14.186	1.00	107.86	O
ATOM	2506	N	ALA	323	37.301	74.678	12.492	1.00	36.54	N
ATOM	2507	CA	ALA	323	37.341	76.110	12.571	1.00	36.54	C
ATOM	2508	CB	ALA	323	36.354	76.790	11.606	1.00	36.54	C
ATOM	2509	C	ALA	323	36.982	76.548	13.956	1.00	36.54	C

ATOM	2510	O	ALA	323	37.585	77.481	14.483	1.00	36.54	O
ATOM	2511	N	ASN	324	35.988	75.892	14.586	1.00	52.42	N
ATOM	2512	CA	ASN	324	35.552	76.302	15.893	1.00	52.42	C
ATOM	2513	CB	ASN	324	34.382	75.458	16.427	1.00	52.42	C
ATOM	2514	CG	ASN	324	33.144	75.797	15.613	1.00	52.42	C
ATOM	2515	OD1	ASN	324	32.686	75.003	14.794	1.00	52.42	O
ATOM	2516	ND2	ASN	324	32.582	77.013	15.844	1.00	52.42	N
ATOM	2517	C	ASN	324	36.670	76.150	16.873	1.00	52.42	C
ATOM	2518	O	ASN	324	36.958	77.071	17.636	1.00	52.42	O
ATOM	2519	N	ALA	325	37.352	74.989	16.856	1.00	41.06	N
ATOM	2520	CA	ALA	325	38.399	74.733	17.799	1.00	41.06	C
ATOM	2521	CB	ALA	325	39.044	73.351	17.606	1.00	41.06	C
ATOM	2522	C	ALA	325	39.460	75.755	17.593	1.00	41.06	C
ATOM	2523	O	ALA	325	40.057	76.240	18.552	1.00	41.06	O
ATOM	2524	N	ARG	326	39.737	76.093	16.322	1.00	88.32	N
ATOM	2525	CA	ARG	326	40.755	77.054	16.040	1.00	88.32	C
ATOM	2526	CB	ARG	326	40.968	77.224	14.530	1.00	88.32	C
ATOM	2527	CG	ARG	326	41.926	78.341	14.124	1.00	88.32	C
ATOM	2528	CD	ARG	326	42.395	78.171	12.678	1.00	88.32	C
ATOM	2529	NE	ARG	326	42.852	79.496	12.183	1.00	88.32	N
ATOM	2530	CZ	ARG	326	41.947	80.291	11.542	1.00	88.32	C
ATOM	2531	NH1	ARG	326	40.661	79.859	11.395	1.00	88.32	N
ATOM	2532	NH2	ARG	326	42.321	81.506	11.046	1.00	88.32	N
ATOM	2533	C	ARG	326	40.377	78.369	16.634	1.00	88.32	C
ATOM	2534	O	ARG	326	41.132	78.919	17.431	1.00	88.32	O
ATOM	2535	N	GLY	327	39.156	78.861	16.348	1.00	33.10	N
ATOM	2536	CA	GLY	327	38.773	80.165	16.807	1.00	33.10	C
ATOM	2537	C	GLY	327	38.872	80.176	18.294	1.00	33.10	C
ATOM	2538	O	GLY	327	39.376	81.132	18.883	1.00	33.10	O
ATOM	2539	N	ALA	328	38.404	79.097	18.946	1.00	71.84	N
ATOM	2540	CA	ALA	328	38.454	79.114	20.372	1.00	71.84	C
ATOM	2541	CB	ALA	328	37.819	77.863	21.001	1.00	71.84	C
ATOM	2542	C	ALA	328	39.872	79.174	20.841	1.00	71.84	C
ATOM	2543	O	ALA	328	40.258	80.165	21.454	1.00	71.84	O
ATOM	2544	N	ALA	329	40.713	78.176	20.483	1.00	105.76	N
ATOM	2545	CA	ALA	329	42.042	78.176	21.022	1.00	105.76	C
ATOM	2546	CB	ALA	329	42.935	77.022	20.539	1.00	105.76	C
ATOM	2547	C	ALA	329	42.727	79.382	20.558	1.00	105.76	C
ATOM	2548	O	ALA	329	42.917	80.244	21.376	1.00	105.76	O
ATOM	2549	N	TYR	330	42.891	79.606	19.248	1.00	165.85	N
ATOM	2550	CA	TYR	330	43.770	80.635	18.765	1.00	165.85	C
ATOM	2551	CB	TYR	330	43.690	80.732	17.231	1.00	165.85	C
ATOM	2552	CG	TYR	330	44.203	82.064	16.827	1.00	165.85	C
ATOM	2553	CD1	TYR	330	45.548	82.295	16.666	1.00	165.85	C
ATOM	2554	CD2	TYR	330	43.314	83.094	16.623	1.00	165.85	C
ATOM	2555	CE1	TYR	330	46.000	83.540	16.297	1.00	165.85	C
ATOM	2556	CE2	TYR	330	43.761	84.340	16.254	1.00	165.85	C
ATOM	2557	CZ	TYR	330	45.107	84.564	16.090	1.00	165.85	C
ATOM	2558	OH	TYR	330	45.573	85.841	15.712	1.00	165.85	O
ATOM	2559	C	TYR	330	43.489	81.991	19.348	1.00	165.85	C
ATOM	2560	O	TYR	330	44.419	82.643	19.820	1.00	165.85	O
ATOM	2561	N	GLU	331	42.231	82.471	19.341	1.00	58.33	N
ATOM	2562	CA	GLU	331	41.994	83.794	19.862	1.00	58.33	C
ATOM	2563	CB	GLU	331	40.558	84.283	19.612	1.00	58.33	C
ATOM	2564	CG	GLU	331	40.245	84.525	18.134	1.00	58.33	C
ATOM	2565	CD	GLU	331	38.805	85.006	18.033	1.00	58.33	C
ATOM	2566	OE1	GLU	331	38.354	85.724	18.966	1.00	58.33	O
ATOM	2567	OE2	GLU	331	38.135	84.661	17.025	1.00	58.33	O
ATOM	2568	C	GLU	331	42.235	83.837	21.348	1.00	58.33	C
ATOM	2569	O	GLU	331	42.995	84.667	21.841	1.00	58.33	O
ATOM	2570	N	ILE	332	41.610	82.903	22.090	1.00	139.24	N
ATOM	2571	CA	ILE	332	41.646	82.794	23.526	1.00	139.24	C
ATOM	2572	CB	ILE	332	40.779	81.745	24.163	1.00	139.24	C
ATOM	2573	CG1	ILE	332	41.366	80.343	23.934	1.00	139.24	C
ATOM	2574	CG2	ILE	332	39.347	81.925	23.636	1.00	139.24	C
ATOM	2575	CD1	ILE	332	40.738	79.262	24.809	1.00	139.24	C
ATOM	2576	C	ILE	332	43.016	82.379	23.932	1.00	139.24	C
ATOM	2577	O	ILE	332	43.222	82.065	25.099	1.00	139.24	O
ATOM	2578	N	PHE	333	43.800	81.987	22.916	1.00	171.22	N
ATOM	2579	CA	PHE	333	45.157	81.515	22.883	1.00	171.22	C
ATOM	2580	CB	PHE	333	45.548	80.843	21.557	1.00	171.22	C
ATOM	2581	CG	PHE	333	46.862	80.171	21.702	1.00	171.22	C
ATOM	2582	CD1	PHE	333	48.024	80.878	21.518	1.00	171.22	C
ATOM	2583	CD2	PHE	333	46.926	78.830	22.007	1.00	171.22	C

ATOM	2584	CE1	PHE	333	49.238	80.251	21.647	1.00171.22	C
ATOM	2585	CE2	PHE	333	48.139	78.200	22.138	1.00171.22	C
ATOM	2586	CZ	PHE	333	49.298	78.914	21.959	1.00171.22	C
ATOM	2587	C	PHE	333	46.038	82.688	22.992	1.00171.22	C
ATOM	2588	O	PHE	333	47.067	82.669	23.655	1.00171.22	O
ATOM	2589	N	LYS	334	45.661	83.761	22.287	1.00 92.73	N
ATOM	2590	CA	LYS	334	46.393	84.971	22.430	1.00 92.73	C
ATOM	2591	CB	LYS	334	45.855	86.113	21.551	1.00 92.73	C
ATOM	2592	CG	LYS	334	46.076	85.872	20.056	1.00 92.73	C
ATOM	2593	CD	LYS	334	45.316	86.848	19.156	1.00 92.73	C
ATOM	2594	CE	LYS	334	43.815	86.568	19.071	1.00 92.73	C
ATOM	2595	NZ	LYS	334	43.165	87.573	18.199	1.00 92.73	N
ATOM	2596	C	LYS	334	46.134	85.297	23.845	1.00 92.73	C
ATOM	2597	O	LYS	334	46.942	85.926	24.519	1.00 92.73	O
ATOM	2598	N	ILE	335	44.928	84.907	24.291	1.00137.04	N
ATOM	2599	CA	ILE	335	44.552	84.978	25.657	1.00137.04	C
ATOM	2600	CB	ILE	335	43.103	84.676	25.895	1.00137.04	C
ATOM	2601	CG1	ILE	335	42.215	85.677	25.140	1.00137.04	C
ATOM	2602	CG2	ILE	335	42.868	84.662	27.415	1.00137.04	C
ATOM	2603	CD1	ILE	335	42.440	87.126	25.564	1.00137.04	C
ATOM	2604	C	ILE	335	45.375	83.977	26.414	1.00137.04	C
ATOM	2605	O	ILE	335	45.739	84.223	27.563	1.00137.04	O
ATOM	2606	N	ILE	336	45.615	82.780	25.830	1.00258.48	N
ATOM	2607	CA	ILE	336	46.328	81.791	26.586	1.00258.48	C
ATOM	2608	CB	ILE	336	46.082	80.367	26.120	1.00258.48	C
ATOM	2609	CG1	ILE	336	46.547	79.373	27.177	1.00258.48	C
ATOM	2610	CG2	ILE	336	46.806	80.062	24.809	1.00258.48	C
ATOM	2611	CD1	ILE	336	48.059	79.199	27.236	1.00258.48	C
ATOM	2612	C	ILE	336	47.805	82.083	26.736	1.00258.48	C
ATOM	2613	O	ILE	336	48.240	82.487	27.813	1.00258.48	O
ATOM	2614	N	ASP	337	48.596	82.051	25.640	1.00130.09	N
ATOM	2615	CA	ASP	337	50.019	82.145	25.761	1.00130.09	C
ATOM	2616	CB	ASP	337	50.790	82.072	24.427	1.00130.09	C
ATOM	2617	CG	ASP	337	50.952	80.615	24.008	1.00130.09	C
ATOM	2618	OD1	ASP	337	50.268	79.734	24.594	1.00130.09	O
ATOM	2619	OD2	ASP	337	51.777	80.362	23.089	1.00130.09	O
ATOM	2620	C	ASP	337	50.414	83.449	26.433	1.00130.09	C
ATOM	2621	O	ASP	337	51.034	83.433	27.494	1.00130.09	O
ATOM	2622	N	ASN	338	49.955	84.604	25.904	1.00129.46	N
ATOM	2623	CA	ASN	338	50.365	85.942	26.297	1.00129.46	C
ATOM	2624	CB	ASN	338	49.323	87.007	25.941	1.00129.46	C
ATOM	2625	CG	ASN	338	48.132	86.711	26.839	1.00129.46	C
ATOM	2626	OD1	ASN	338	47.841	85.552	27.125	1.00129.46	O
ATOM	2627	ND2	ASN	338	47.419	87.775	27.292	1.00129.46	N
ATOM	2628	C	ASN	338	50.606	86.129	27.804	1.00129.46	C
ATOM	2629	O	ASN	338	49.876	85.607	28.642	1.00129.46	O
ATOM	2630	N	LYS	339	51.699	86.877	28.142	1.00248.18	N
ATOM	2631	CA	LYS	339	52.338	87.316	29.391	1.00248.18	C
ATOM	2632	CB	LYS	339	53.868	87.414	29.278	1.00248.18	C
ATOM	2633	CG	LYS	339	54.572	86.125	29.713	1.00248.18	C
ATOM	2634	CD	LYS	339	54.233	84.880	28.895	1.00248.18	C
ATOM	2635	CE	LYS	339	54.865	83.604	29.464	1.00248.18	C
ATOM	2636	NZ	LYS	339	54.333	83.326	30.821	1.00248.18	N
ATOM	2637	C	LYS	339	51.852	88.559	30.120	1.00248.18	C
ATOM	2638	O	LYS	339	52.578	88.968	31.028	1.00248.18	O
ATOM	2639	N	PRO	340	50.785	89.252	29.816	1.00146.21	N
ATOM	2640	CA	PRO	340	50.533	90.591	30.341	1.00146.21	C
ATOM	2641	CD	PRO	340	49.581	88.624	29.303	1.00146.21	C
ATOM	2642	CB	PRO	340	49.032	90.824	30.157	1.00146.21	C
ATOM	2643	CG	PRO	340	48.597	89.788	29.105	1.00146.21	C
ATOM	2644	C	PRO	340	50.983	91.056	31.727	1.00146.21	C
ATOM	2645	O	PRO	340	51.917	91.856	31.764	1.00146.21	O
ATOM	2646	N	SER	341	50.391	90.616	32.865	1.00186.70	N
ATOM	2647	CA	SER	341	50.865	91.051	34.173	1.00186.70	C
ATOM	2648	CB	SER	341	52.198	90.399	34.587	1.00186.70	C
ATOM	2649	OG	SER	341	53.239	90.803	33.711	1.00186.70	O
ATOM	2650	C	SER	341	51.017	92.561	34.250	1.00186.70	C
ATOM	2651	O	SER	341	50.324	93.299	33.552	1.00186.70	O
ATOM	2652	N	ILE	342	51.857	93.059	35.200	1.00261.72	N
ATOM	2653	CA	ILE	342	52.225	94.462	35.322	1.00261.72	C
ATOM	2654	CB	ILE	342	52.239	95.206	34.017	1.00261.72	C
ATOM	2655	CG1	ILE	342	53.310	94.625	33.078	1.00261.72	C
ATOM	2656	CG2	ILE	342	52.450	96.698	34.331	1.00261.72	C
ATOM	2657	CD1	ILE	342	54.729	94.730	33.637	1.00261.72	C

ATOM	2658	C	ILE	342	51.312	95.193	36.257	1.00261.72	C
ATOM	2659	O	ILE	342	51.721	96.073	37.018	1.00261.72	O
ATOM	2660	N	ASP	343	50.021	94.851	36.201	1.00161.13	N
ATOM	2661	CA	ASP	343	49.033	95.498	37.007	1.00161.13	C
ATOM	2662	CB	ASP	343	47.585	95.112	36.670	1.00161.13	C
ATOM	2663	CG	ASP	343	47.360	93.683	37.133	1.00161.13	C
ATOM	2664	OD1	ASP	343	47.894	92.746	36.484	1.00161.13	O
ATOM	2665	OD2	ASP	343	46.643	93.514	38.155	1.00161.13	O
ATOM	2666	C	ASP	343	49.260	95.080	38.416	1.00161.13	C
ATOM	2667	O	ASP	343	48.532	95.493	39.314	1.00161.13	O
ATOM	2668	N	SER	344	50.199	94.145	38.634	1.00241.15	N
ATOM	2669	CA	SER	344	50.358	93.647	39.964	1.00241.15	C
ATOM	2670	CB	SER	344	49.278	92.603	40.278	1.00241.15	C
ATOM	2671	OG	SER	344	49.443	92.111	41.595	1.00241.15	O
ATOM	2672	C	SER	344	51.690	92.992	40.081	1.00241.15	C
ATOM	2673	O	SER	344	52.547	93.480	40.822	1.00241.15	O
ATOM	2674	N	TYR	345	51.862	91.830	39.403	1.00291.46	N
ATOM	2675	CA	TYR	345	53.143	91.196	39.420	1.00291.46	C
ATOM	2676	CB	TYR	345	54.272	92.186	39.073	1.00291.46	C
ATOM	2677	CG	TYR	345	55.482	91.432	38.642	1.00291.46	C
ATOM	2678	CD1	TYR	345	55.349	90.361	37.791	1.00291.46	C
ATOM	2679	CD2	TYR	345	56.737	91.761	39.094	1.00291.46	C
ATOM	2680	CE1	TYR	345	56.444	89.643	37.372	1.00291.46	C
ATOM	2681	CE2	TYR	345	57.835	91.048	38.673	1.00291.46	C
ATOM	2682	CZ	TYR	345	57.696	89.991	37.812	1.00291.46	C
ATOM	2683	OH	TYR	345	58.829	89.265	37.388	1.00291.46	O
ATOM	2684	C	TYR	345	53.322	90.553	40.756	1.00291.46	C
ATOM	2685	O	TYR	345	52.467	90.669	41.632	1.00291.46	O
ATOM	2686	N	SER	346	54.327	89.671	40.876	1.00305.07	N
ATOM	2687	CA	SER	346	54.643	89.178	42.180	1.00305.07	C
ATOM	2688	CB	SER	346	54.054	87.786	42.469	1.00305.07	C
ATOM	2689	OG	SER	346	54.491	86.850	41.497	1.00305.07	O
ATOM	2690	C	SER	346	56.136	89.108	42.260	1.00305.07	C
ATOM	2691	O	SER	346	56.706	88.029	42.097	1.00305.07	O
ATOM	2692	N	LYS	347	56.784	90.266	42.557	1.00256.22	N
ATOM	2693	CA	LYS	347	58.220	90.394	42.612	1.00256.22	C
ATOM	2694	CB	LYS	347	58.862	91.084	41.411	1.00256.22	C
ATOM	2695	CG	LYS	347	58.495	92.567	41.319	1.00256.22	C
ATOM	2696	CD	LYS	347	59.410	93.370	40.396	1.00256.22	C
ATOM	2697	CE	LYS	347	60.654	93.920	41.094	1.00256.22	C
ATOM	2698	NZ	LYS	347	61.517	92.808	41.551	1.00256.22	N
ATOM	2699	C	LYS	347	58.602	91.315	43.779	1.00256.22	C
ATOM	2700	O	LYS	347	57.814	91.512	44.698	1.00256.22	O
ATOM	2701	N	SER	348	59.819	91.943	43.746	1.00173.38	N
ATOM	2702	CA	SER	348	60.440	92.756	44.796	1.00173.38	C
ATOM	2703	CB	SER	348	61.882	93.168	44.435	1.00173.38	C
ATOM	2704	OG	SER	348	62.511	93.832	45.521	1.00173.38	O
ATOM	2705	C	SER	348	59.641	94.018	45.119	1.00173.38	C
ATOM	2706	O	SER	348	58.521	94.188	44.656	1.00173.38	O
ATOM	2707	N	GLY	349	60.139	94.937	45.991	1.00 91.26	N
ATOM	2708	CA	GLY	349	59.314	96.107	46.233	1.00 91.26	C
ATOM	2709	C	GLY	349	59.699	96.895	47.476	1.00 91.26	C
ATOM	2710	O	GLY	349	60.873	96.993	47.836	1.00 91.26	O
ATOM	2711	N	HIS	350	58.667	97.506	48.131	1.00116.52	N
ATOM	2712	CA	HIS	350	58.733	98.413	49.272	1.00116.52	C
ATOM	2713	ND1	HIS	350	56.664	101.049	50.725	1.00116.52	N
ATOM	2714	CG	HIS	350	57.839	100.698	50.096	1.00116.52	C
ATOM	2715	CB	HIS	350	57.916	99.692	48.988	1.00116.52	C
ATOM	2716	NE2	HIS	350	58.272	102.265	51.660	1.00116.52	N
ATOM	2717	CD2	HIS	350	58.811	101.447	50.682	1.00116.52	C
ATOM	2718	CE1	HIS	350	56.980	101.990	51.649	1.00116.52	C
ATOM	2719	C	HIS	350	58.189	97.748	50.523	1.00116.52	C
ATOM	2720	O	HIS	350	57.307	96.899	50.433	1.00116.52	O
ATOM	2721	N	LYS	351	58.696	98.111	51.738	1.00187.95	N
ATOM	2722	CA	LYS	351	58.244	97.422	52.939	1.00187.95	C
ATOM	2723	CB	LYS	351	59.329	96.490	53.506	1.00187.95	C
ATOM	2724	CG	LYS	351	59.952	95.564	52.460	1.00187.95	C
ATOM	2725	CD	LYS	351	58.966	94.620	51.774	1.00187.95	C
ATOM	2726	CE	LYS	351	58.816	93.273	52.482	1.00187.95	C
ATOM	2727	NZ	LYS	351	57.930	92.386	51.694	1.00187.95	N
ATOM	2728	C	LYS	351	57.878	98.349	54.092	1.00187.95	C
ATOM	2729	O	LYS	351	58.756	98.871	54.779	1.00187.95	O
ATOM	2730	N	PRO	352	56.603	98.578	54.340	1.00254.89	N
ATOM	2731	CA	PRO	352	56.178	99.354	55.503	1.00254.89	C

ATOM	2732	CD	PRO	352	55.665	98.702	53.244	1.00254.89	C
ATOM	2733	CB	PRO	352	54.750	99.797	55.215	1.00254.89	C
ATOM	2734	CG	PRO	352	54.667	99.786	53.680	1.00254.89	C
ATOM	2735	C	PRO	352	56.259	98.546	56.757	1.00254.89	C
ATOM	2736	O	PRO	352	55.255	97.950	57.153	1.00254.89	O
ATOM	2737	N	ASP	353	57.401	98.605	57.448	1.00134.82	N
ATOM	2738	CA	ASP	353	57.640	97.789	58.597	1.00134.82	C
ATOM	2739	CB	ASP	353	59.133	97.692	58.929	1.00134.82	C
ATOM	2740	CG	ASP	353	59.748	96.949	57.748	1.00134.82	C
ATOM	2741	OD1	ASP	353	58.983	96.616	56.802	1.00134.82	O
ATOM	2742	OD2	ASP	353	60.984	96.711	57.768	1.00134.82	O
ATOM	2743	C	ASP	353	56.872	98.258	59.783	1.00134.82	C
ATOM	2744	O	ASP	353	56.581	97.452	60.667	1.00134.82	O
ATOM	2745	N	ASN	354	56.574	99.575	59.857	1.00255.37	N
ATOM	2746	CA	ASN	354	55.768	100.051	60.943	1.00255.37	C
ATOM	2747	CB	ASN	354	55.411	101.548	60.828	1.00255.37	C
ATOM	2748	CG	ASN	354	54.626	101.766	59.540	1.00255.37	C
ATOM	2749	OD1	ASN	354	53.409	101.593	59.513	1.00255.37	O
ATOM	2750	ND2	ASN	354	55.335	102.123	58.437	1.00255.37	N
ATOM	2751	C	ASN	354	54.533	99.241	60.767	1.00255.37	C
ATOM	2752	O	ASN	354	53.987	99.128	59.682	1.00255.37	O
ATOM	2753	N	ILE	355	54.115	98.481	61.767	1.00256.89	N
ATOM	2754	CA	ILE	355	53.040	97.680	61.303	1.00256.89	C
ATOM	2755	CB	ILE	355	52.864	96.489	62.169	1.00256.89	C
ATOM	2756	CG1	ILE	355	54.210	95.759	62.297	1.00256.89	C
ATOM	2757	CG2	ILE	355	51.794	95.633	61.499	1.00256.89	C
ATOM	2758	CD1	ILE	355	54.812	95.368	60.948	1.00256.89	C
ATOM	2759	C	ILE	355	51.715	98.407	61.175	1.00256.89	C
ATOM	2760	O	ILE	355	51.331	98.785	60.073	1.00256.89	O
ATOM	2761	N	LYS	356	51.093	98.802	62.312	1.00166.28	N
ATOM	2762	CA	LYS	356	49.725	99.276	62.413	1.00166.28	C
ATOM	2763	CB	LYS	356	49.299	99.557	63.866	1.00166.28	C
ATOM	2764	CG	LYS	356	49.253	98.317	64.763	1.00166.28	C
ATOM	2765	CD	LYS	356	48.207	97.281	64.344	1.00166.28	C
ATOM	2766	CE	LYS	356	48.173	96.048	65.251	1.00166.28	C
ATOM	2767	NZ	LYS	356	47.096	95.129	64.818	1.00166.28	N
ATOM	2768	C	LYS	356	49.482	100.538	61.644	1.00166.28	C
ATOM	2769	O	LYS	356	50.413	101.257	61.282	1.00166.28	O
ATOM	2770	N	GLY	357	48.182	100.809	61.352	1.00 50.44	N
ATOM	2771	CA	GLY	357	47.815	102.013	60.654	1.00 50.44	C
ATOM	2772	C	GLY	357	46.344	102.009	60.346	1.00 50.44	C
ATOM	2773	O	GLY	357	45.632	101.036	60.587	1.00 50.44	O
ATOM	2774	N	ASN	358	45.851	103.126	59.773	1.00 72.78	N
ATOM	2775	CA	ASN	358	44.453	103.251	59.475	1.00 72.78	C
ATOM	2776	CB	ASN	358	43.835	104.567	59.978	1.00 72.78	C
ATOM	2777	CG	ASN	358	43.894	104.570	61.499	1.00 72.78	C
ATOM	2778	OD1	ASN	358	44.264	103.575	62.121	1.00 72.78	O
ATOM	2779	ND2	ASN	358	43.514	105.717	62.120	1.00 72.78	N
ATOM	2780	C	ASN	358	44.296	103.241	57.995	1.00 72.78	C
ATOM	2781	O	ASN	358	45.162	103.709	57.259	1.00 72.78	O
ATOM	2782	N	LEU	359	43.179	102.662	57.521	1.00122.55	N
ATOM	2783	CA	LEU	359	42.920	102.638	56.114	1.00122.55	C
ATOM	2784	CB	LEU	359	41.839	101.619	55.713	1.00122.55	C
ATOM	2785	CG	LEU	359	42.233	100.154	55.978	1.00122.55	C
ATOM	2786	CD1	LEU	359	42.514	99.913	57.469	1.00122.55	C
ATOM	2787	CD2	LEU	359	41.176	99.188	55.419	1.00122.55	C
ATOM	2788	C	LEU	359	42.419	103.994	55.748	1.00122.55	C
ATOM	2789	O	LEU	359	41.731	104.643	56.534	1.00122.55	O
ATOM	2790	N	GLU	360	42.776	104.478	54.545	1.00144.10	N
ATOM	2791	CA	GLU	360	42.303	105.773	54.164	1.00144.10	C
ATOM	2792	CB	GLU	360	43.401	106.849	54.242	1.00144.10	C
ATOM	2793	CG	GLU	360	44.019	107.007	55.635	1.00144.10	C
ATOM	2794	CD	GLU	360	42.999	107.651	56.560	1.00144.10	C
ATOM	2795	OE1	GLU	360	42.777	108.884	56.427	1.00144.10	O
ATOM	2796	OE2	GLU	360	42.427	106.921	57.412	1.00144.10	O
ATOM	2797	C	GLU	360	41.890	105.699	52.730	1.00144.10	C
ATOM	2798	O	GLU	360	42.734	105.703	51.837	1.00144.10	O
ATOM	2799	N	PHE	361	40.575	105.640	52.461	1.00159.75	N
ATOM	2800	CA	PHE	361	40.152	105.661	51.092	1.00159.75	C
ATOM	2801	CB	PHE	361	38.847	104.880	50.837	1.00159.75	C
ATOM	2802	CG	PHE	361	39.157	103.421	50.775	1.00159.75	C
ATOM	2803	CD1	PHE	361	39.479	102.711	51.909	1.00159.75	C
ATOM	2804	CD2	PHE	361	39.153	102.767	49.564	1.00159.75	C
ATOM	2805	CE1	PHE	361	39.769	101.368	51.838	1.00159.75	C

ATOM	2806	CE2	PHE	361	39.440	101.424	49.487	1.00159.75	C
ATOM	2807	CZ	PHE	361	39.746	100.720	50.626	1.00159.75	C
ATOM	2808	C	PHE	361	39.889	107.098	50.798	1.00159.75	C
ATOM	2809	O	PHE	361	38.898	107.659	51.261	1.00159.75	O
ATOM	2810	N	ARG	362	40.774	107.752	50.019	1.00116.01	N
ATOM	2811	CA	ARG	362	40.517	109.144	49.828	1.00116.01	C
ATOM	2812	CB	ARG	362	41.623	110.073	50.364	1.00116.01	C
ATOM	2813	CG	ARG	362	41.586	110.194	51.892	1.00116.01	C
ATOM	2814	CD	ARG	362	42.379	111.380	52.450	1.00116.01	C
ATOM	2815	NE	ARG	362	43.821	111.010	52.488	1.00116.01	N
ATOM	2816	CZ	ARG	362	44.416	110.733	53.686	1.00116.01	C
ATOM	2817	NH1	ARG	362	43.695	110.820	54.842	1.00116.01	N
ATOM	2818	NH2	ARG	362	45.734	110.382	53.730	1.00116.01	N
ATOM	2819	C	ARG	362	40.277	109.462	48.392	1.00116.01	C
ATOM	2820	O	ARG	362	41.140	109.261	47.537	1.00116.01	O
ATOM	2821	N	ASN	363	39.056	109.974	48.126	1.00 75.73	N
ATOM	2822	CA	ASN	363	38.601	110.458	46.855	1.00 75.73	C
ATOM	2823	CB	ASN	363	39.058	111.898	46.559	1.00 75.73	C
ATOM	2824	CG	ASN	363	38.310	112.390	45.328	1.00 75.73	C
ATOM	2825	OD1	ASN	363	38.665	112.067	44.196	1.00 75.73	O
ATOM	2826	ND2	ASN	363	37.236	113.191	45.554	1.00 75.73	N
ATOM	2827	C	ASN	363	39.073	109.560	45.764	1.00 75.73	C
ATOM	2828	O	ASN	363	39.888	109.968	44.939	1.00 75.73	O
ATOM	2829	N	VAL	364	38.586	108.303	45.730	1.00 55.23	N
ATOM	2830	CA	VAL	364	39.066	107.423	44.706	1.00 55.23	C
ATOM	2831	CB	VAL	364	39.573	106.110	45.226	1.00 55.23	C
ATOM	2832	CG1	VAL	364	39.975	105.235	44.027	1.00 55.23	C
ATOM	2833	CG2	VAL	364	40.717	106.382	46.217	1.00 55.23	C
ATOM	2834	C	VAL	364	37.976	107.105	43.743	1.00 55.23	C
ATOM	2835	O	VAL	364	36.903	106.626	44.109	1.00 55.23	O
ATOM	2836	N	HIS	365	38.262	107.363	42.455	1.00 67.48	N
ATOM	2837	CA	HIS	365	37.360	107.035	41.403	1.00 67.48	C
ATOM	2838	ND1	HIS	365	37.575	110.258	41.680	1.00 67.48	N
ATOM	2839	CG	HIS	365	36.785	109.436	40.908	1.00 67.48	C
ATOM	2840	CB	HIS	365	37.255	108.134	40.334	1.00 67.48	C
ATOM	2841	NE2	HIS	365	35.592	111.251	41.519	1.00 67.48	N
ATOM	2842	CD2	HIS	365	35.577	110.057	40.819	1.00 67.48	C
ATOM	2843	CE1	HIS	365	36.813	111.329	42.018	1.00 67.48	C
ATOM	2844	C	HIS	365	38.003	105.852	40.773	1.00 67.48	C
ATOM	2845	O	HIS	365	39.227	105.736	40.771	1.00 67.48	O
ATOM	2846	N	PHE	366	37.193	104.903	40.283	1.00103.59	N
ATOM	2847	CA	PHE	366	37.765	103.743	39.694	1.00103.59	C
ATOM	2848	CB	PHE	366	38.236	102.731	40.756	1.00103.59	C
ATOM	2849	CG	PHE	366	38.484	101.420	40.099	1.00103.59	C
ATOM	2850	CD1	PHE	366	39.616	101.194	39.351	1.00103.59	C
ATOM	2851	CD2	PHE	366	37.568	100.405	40.254	1.00103.59	C
ATOM	2852	CE1	PHE	366	39.820	99.971	38.755	1.00103.59	C
ATOM	2853	CE2	PHE	366	37.766	99.181	39.661	1.00103.59	C
ATOM	2854	CZ	PHE	366	38.895	98.965	38.909	1.00103.59	C
ATOM	2855	C	PHE	366	36.730	103.105	38.858	1.00103.59	C
ATOM	2856	O	PHE	366	35.568	102.986	39.240	1.00103.59	O
ATOM	2857	N	SER	367	37.150	102.677	37.667	1.00125.84	N
ATOM	2858	CA	SER	367	36.249	101.991	36.817	1.00125.84	C
ATOM	2859	CB	SER	367	35.995	102.677	35.464	1.00125.84	C
ATOM	2860	OG	SER	367	37.173	102.650	34.673	1.00125.84	O
ATOM	2861	C	SER	367	36.940	100.716	36.545	1.00125.84	C
ATOM	2862	O	SER	367	38.169	100.631	36.559	1.00125.84	O
ATOM	2863	N	TYR	368	36.145	99.671	36.329	1.00218.60	N
ATOM	2864	CA	TYR	368	36.724	98.413	36.017	1.00218.60	C
ATOM	2865	CB	TYR	368	35.686	97.303	35.733	1.00218.60	C
ATOM	2866	CG	TYR	368	35.227	96.799	37.059	1.00218.60	C
ATOM	2867	CD1	TYR	368	36.022	95.927	37.768	1.00218.60	C
ATOM	2868	CD2	TYR	368	34.037	97.204	37.614	1.00218.60	C
ATOM	2869	CE1	TYR	368	35.629	95.450	38.997	1.00218.60	C
ATOM	2870	CE2	TYR	368	33.635	96.731	38.842	1.00218.60	C
ATOM	2871	CZ	TYR	368	34.431	95.851	39.535	1.00218.60	C
ATOM	2872	OH	TYR	368	34.024	95.362	40.794	1.00218.60	O
ATOM	2873	C	TYR	368	37.690	98.548	34.860	1.00218.60	C
ATOM	2874	O	TYR	368	37.619	99.493	34.075	1.00218.60	O
ATOM	2875	N	PRO	369	38.646	97.651	34.769	1.00129.79	N
ATOM	2876	CA	PRO	369	39.665	97.728	33.754	1.00129.79	C
ATOM	2877	CD	PRO	369	38.465	96.285	35.230	1.00129.79	C
ATOM	2878	CB	PRO	369	40.423	96.411	33.828	1.00129.79	C
ATOM	2879	CG	PRO	369	39.342	95.436	34.309	1.00129.79	C

ATOM	2880	C	PRO	369	39.093	97.908	32.385	1.00129.79	C
ATOM	2881	O	PRO	369	39.808	98.418	31.526	1.00129.79	O
ATOM	2882	N	SER	370	37.862	97.444	32.105	1.00123.78	N
ATOM	2883	CA	SER	370	37.379	97.748	30.792	1.00123.78	C
ATOM	2884	CB	SER	370	36.040	97.079	30.440	1.00123.78	C
ATOM	2885	OG	SER	370	35.017	97.557	31.296	1.00123.78	O
ATOM	2886	C	SER	370	37.207	99.227	30.802	1.00123.78	C
ATOM	2887	O	SER	370	36.542	99.787	31.664	1.00123.78	O
ATOM	2888	N	ARG	371	37.745	99.909	29.792	1.00221.13	N
ATOM	2889	CA	ARG	371	37.822	101.341	29.849	1.00221.13	C
ATOM	2890	CB	ARG	371	38.468	101.987	28.608	1.00221.13	C
ATOM	2891	CG	ARG	371	37.740	101.692	27.293	1.00221.13	C
ATOM	2892	CD	ARG	371	37.831	102.828	26.268	1.00221.13	C
ATOM	2893	NE	ARG	371	39.017	103.665	26.606	1.00221.13	N
ATOM	2894	CZ	ARG	371	40.239	103.377	26.073	1.00221.13	C
ATOM	2895	NH1	ARG	371	40.382	102.321	25.222	1.00221.13	N
ATOM	2896	NH2	ARG	371	41.317	104.155	26.386	1.00221.13	N
ATOM	2897	C	ARG	371	36.483	102.013	30.012	1.00221.13	C
ATOM	2898	O	ARG	371	36.402	103.053	30.661	1.00221.13	O
ATOM	2899	N	LYS	372	35.420	101.497	29.372	1.00194.61	N
ATOM	2900	CA	LYS	372	34.114	102.115	29.333	1.00194.61	C
ATOM	2901	CB	LYS	372	33.288	101.622	28.130	1.00194.61	C
ATOM	2902	CG	LYS	372	33.745	100.261	27.599	1.00194.61	C
ATOM	2903	CD	LYS	372	33.598	99.102	28.579	1.00194.61	C
ATOM	2904	CE	LYS	372	34.264	97.812	28.095	1.00194.61	C
ATOM	2905	NZ	LYS	372	33.729	97.433	26.769	1.00194.61	N
ATOM	2906	C	LYS	372	33.251	102.100	30.569	1.00194.61	C
ATOM	2907	O	LYS	372	32.557	103.087	30.815	1.00194.61	O
ATOM	2908	N	GLU	373	33.262	101.023	31.383	1.00129.64	N
ATOM	2909	CA	GLU	373	32.316	100.858	32.467	1.00129.64	C
ATOM	2910	CB	GLU	373	32.664	99.731	33.458	1.00129.64	C
ATOM	2911	CG	GLU	373	32.857	98.346	32.850	1.00129.64	C
ATOM	2912	CD	GLU	373	31.811	98.126	31.777	1.00129.64	C
ATOM	2913	OE1	GLU	373	30.595	98.198	32.094	1.00129.64	O
ATOM	2914	OE2	GLU	373	32.228	97.885	30.614	1.00129.64	O
ATOM	2915	C	GLU	373	32.272	102.076	33.334	1.00129.64	C
ATOM	2916	O	GLU	373	33.221	102.856	33.400	1.00129.64	O
ATOM	2917	N	VAL	374	31.121	102.267	34.015	1.00123.76	N
ATOM	2918	CA	VAL	374	30.967	103.385	34.896	1.00123.76	C
ATOM	2919	CB	VAL	374	29.669	103.406	35.648	1.00123.76	C
ATOM	2920	CG1	VAL	374	28.523	103.507	34.645	1.00123.76	C
ATOM	2921	CG2	VAL	374	29.590	102.159	36.544	1.00123.76	C
ATOM	2922	C	VAL	374	32.011	103.254	35.940	1.00123.76	C
ATOM	2923	O	VAL	374	32.329	102.151	36.380	1.00123.76	O
ATOM	2924	N	LYS	375	32.600	104.382	36.363	1.00166.18	N
ATOM	2925	CA	LYS	375	33.566	104.205	37.395	1.00166.18	C
ATOM	2926	CB	LYS	375	34.345	105.490	37.733	1.00166.18	C
ATOM	2927	CG	LYS	375	33.462	106.690	38.092	1.00166.18	C
ATOM	2928	CD	LYS	375	32.569	107.158	36.940	1.00166.18	C
ATOM	2929	CE	LYS	375	31.695	108.365	37.283	1.00166.18	C
ATOM	2930	NZ	LYS	375	30.877	108.744	36.109	1.00166.18	N
ATOM	2931	C	LYS	375	32.786	103.769	38.585	1.00166.18	C
ATOM	2932	O	LYS	375	32.128	104.581	39.233	1.00166.18	O
ATOM	2933	N	ILE	376	32.904	102.471	38.929	1.00141.61	N
ATOM	2934	CA	ILE	376	32.157	101.895	40.001	1.00141.61	C
ATOM	2935	CB	ILE	376	32.619	100.503	40.290	1.00141.61	C
ATOM	2936	CG1	ILE	376	32.162	99.556	39.171	1.00141.61	C
ATOM	2937	CG2	ILE	376	32.186	100.135	41.714	1.00141.61	C
ATOM	2938	CD1	ILE	376	32.809	99.871	37.824	1.00141.61	C
ATOM	2939	C	ILE	376	32.461	102.718	41.200	1.00141.61	C
ATOM	2940	O	ILE	376	31.549	103.164	41.891	1.00141.61	O
ATOM	2941	N	LEU	377	33.753	102.976	41.467	1.00115.38	N
ATOM	2942	CA	LEU	377	34.003	103.909	42.519	1.00115.38	C
ATOM	2943	CB	LEU	377	35.371	103.774	43.219	1.00115.38	C
ATOM	2944	CG	LEU	377	35.536	102.494	44.069	1.00115.38	C
ATOM	2945	CD1	LEU	377	36.789	102.579	44.953	1.00115.38	C
ATOM	2946	CD2	LEU	377	34.268	102.171	44.876	1.00115.38	C
ATOM	2947	C	LEU	377	33.938	105.242	41.836	1.00115.38	C
ATOM	2948	O	LEU	377	34.871	105.677	41.170	1.00115.38	O
ATOM	2949	N	LYS	378	32.791	105.908	42.017	1.00211.91	N
ATOM	2950	CA	LYS	378	32.311	107.146	41.467	1.00211.91	C
ATOM	2951	CB	LYS	378	30.834	107.402	41.801	1.00211.91	C
ATOM	2952	CG	LYS	378	29.894	106.294	41.337	1.00211.91	C
ATOM	2953	CD	LYS	378	28.487	106.407	41.928	1.00211.91	C

ATOM	2954	CE	LYS	378	28.468	106.673	43.436	1.00211.91	C
ATOM	2955	NZ	LYS	378	29.124	105.563	44.162	1.00211.91	N
ATOM	2956	C	LYS	378	33.049	108.318	42.027	1.00211.91	C
ATOM	2957	O	LYS	378	32.660	109.455	41.761	1.00211.91	O
ATOM	2958	N	GLY	379	34.087	108.103	42.858	1.00 82.52	N
ATOM	2959	CA	GLY	379	34.624	109.225	43.572	1.00 82.52	C
ATOM	2960	C	GLY	379	34.148	109.017	44.967	1.00 82.52	C
ATOM	2961	O	GLY	379	33.137	109.566	45.403	1.00 82.52	O
ATOM	2962	N	LEU	380	34.866	108.110	45.664	1.00162.73	N
ATOM	2963	CA	LEU	380	34.482	107.658	46.969	1.00162.73	C
ATOM	2964	CB	LEU	380	34.520	106.113	47.039	1.00162.73	C
ATOM	2965	CG	LEU	380	33.827	105.388	48.221	1.00162.73	C
ATOM	2966	CD1	LEU	380	34.381	103.962	48.359	1.00162.73	C
ATOM	2967	CD2	LEU	380	33.831	106.155	49.547	1.00162.73	C
ATOM	2968	C	LEU	380	35.489	108.130	47.972	1.00162.73	C
ATOM	2969	O	LEU	380	36.697	108.025	47.761	1.00162.73	O
ATOM	2970	N	ASN	381	34.988	108.672	49.100	1.00 69.53	N
ATOM	2971	CA	ASN	381	35.801	109.056	50.211	1.00 69.53	C
ATOM	2972	CB	ASN	381	35.614	110.523	50.641	1.00 69.53	C
ATOM	2973	CG	ASN	381	36.311	111.424	49.630	1.00 69.53	C
ATOM	2974	OD1	ASN	381	37.537	111.516	49.606	1.00 69.53	O
ATOM	2975	ND2	ASN	381	35.510	112.109	48.771	1.00 69.53	N
ATOM	2976	C	ASN	381	35.367	108.212	51.363	1.00 69.53	C
ATOM	2977	O	ASN	381	34.172	107.984	51.570	1.00 69.53	O
ATOM	2978	N	LEU	382	36.347	107.682	52.120	1.00146.83	N
ATOM	2979	CA	LEU	382	35.990	106.892	53.253	1.00146.83	C
ATOM	2980	CB	LEU	382	35.424	105.514	52.834	1.00146.83	C
ATOM	2981	CG	LEU	382	34.874	104.592	53.947	1.00146.83	C
ATOM	2982	CD1	LEU	382	34.295	103.308	53.331	1.00146.83	C
ATOM	2983	CD2	LEU	382	35.913	104.258	55.028	1.00146.83	C
ATOM	2984	C	LEU	382	37.238	106.695	54.042	1.00146.83	C
ATOM	2985	O	LEU	382	38.321	106.488	53.494	1.00146.83	O
ATOM	2986	N	LYS	383	37.113	106.783	55.373	1.00176.85	N
ATOM	2987	CA	LYS	383	38.250	106.551	56.199	1.00176.85	C
ATOM	2988	CB	LYS	383	38.773	107.831	56.875	1.00176.85	C
ATOM	2989	CG	LYS	383	37.711	108.608	57.657	1.00176.85	C
ATOM	2990	CD	LYS	383	37.269	107.934	58.958	1.00176.85	C
ATOM	2991	CE	LYS	383	36.211	108.726	59.731	1.00176.85	C
ATOM	2992	NZ	LYS	383	36.791	109.994	60.226	1.00176.85	N
ATOM	2993	C	LYS	383	37.806	105.592	57.246	1.00176.85	C
ATOM	2994	O	LYS	383	36.613	105.504	57.542	1.00176.85	O
ATOM	2995	N	VAL	384	38.753	104.796	57.781	1.00146.66	N
ATOM	2996	CA	VAL	384	38.386	103.903	58.836	1.00146.66	C
ATOM	2997	CB	VAL	384	38.130	102.499	58.357	1.00146.66	C
ATOM	2998	CG1	VAL	384	39.403	101.950	57.693	1.00146.66	C
ATOM	2999	CG2	VAL	384	37.642	101.658	59.546	1.00146.66	C
ATOM	3000	C	VAL	384	39.516	103.881	59.823	1.00146.66	C
ATOM	3001	O	VAL	384	40.666	103.595	59.488	1.00146.66	O
ATOM	3002	N	GLN	385	39.179	104.150	61.095	1.00 72.81	N
ATOM	3003	CA	GLN	385	40.121	104.256	62.167	1.00 72.81	C
ATOM	3004	CB	GLN	385	39.482	104.751	63.476	1.00 72.81	C
ATOM	3005	CG	GLN	385	38.839	106.135	63.366	1.00 72.81	C
ATOM	3006	CD	GLN	385	38.256	106.486	64.728	1.00 72.81	C
ATOM	3007	OE1	GLN	385	38.536	105.824	65.726	1.00 72.81	O
ATOM	3008	NE2	GLN	385	37.418	107.557	64.773	1.00 72.81	N
ATOM	3009	C	GLN	385	40.704	102.910	62.445	1.00 72.81	C
ATOM	3010	O	GLN	385	40.209	101.891	61.966	1.00 72.81	O
ATOM	3011	N	SER	386	41.814	102.881	63.210	1.00 64.13	N
ATOM	3012	CA	SER	386	42.432	101.632	63.543	1.00 64.13	C
ATOM	3013	CB	SER	386	43.838	101.775	64.150	1.00 64.13	C
ATOM	3014	OG	SER	386	43.763	102.450	65.397	1.00 64.13	O
ATOM	3015	C	SER	386	41.580	100.943	64.557	1.00 64.13	C
ATOM	3016	O	SER	386	40.682	101.537	65.149	1.00 64.13	O
ATOM	3017	N	GLY	387	41.785	99.620	64.684	1.00 61.34	N
ATOM	3018	CA	GLY	387	41.176	98.811	65.700	1.00 61.34	C
ATOM	3019	C	GLY	387	39.693	98.703	65.483	1.00 61.34	C
ATOM	3020	O	GLY	387	39.032	97.867	66.098	1.00 61.34	O
ATOM	3021	N	GLN	388	39.127	99.524	64.581	1.00103.66	N
ATOM	3022	CA	GLN	388	37.709	99.541	64.385	1.00103.66	C
ATOM	3023	CB	GLN	388	37.167	100.844	63.775	1.00103.66	C
ATOM	3024	CG	GLN	388	37.283	102.054	64.700	1.00103.66	C
ATOM	3025	CD	GLN	388	36.529	103.198	64.040	1.00103.66	C
ATOM	3026	OE1	GLN	388	36.728	103.493	62.863	1.00103.66	O
ATOM	3027	NE2	GLN	388	35.622	103.851	64.815	1.00103.66	N

ATOM	3028	C	GLN	388	37.340	98.439	63.464	1.00103.66	C
ATOM	3029	O	GLN	388	38.166	97.607	63.087	1.00103.66	O
ATOM	3030	N	THR	389	36.032	98.361	63.174	1.00161.69	N
ATOM	3031	CA	THR	389	35.543	97.413	62.230	1.00161.69	C
ATOM	3032	CB	THR	389	34.967	96.201	62.890	1.00161.69	C
ATOM	3033	OG1	THR	389	35.939	95.570	63.707	1.00161.69	O
ATOM	3034	CG2	THR	389	34.515	95.239	61.795	1.00161.69	C
ATOM	3035	C	THR	389	34.419	98.110	61.521	1.00161.69	C
ATOM	3036	O	THR	389	33.482	98.581	62.165	1.00161.69	O
ATOM	3037	N	VAL	390	34.464	98.183	60.173	1.00144.62	N
ATOM	3038	CA	VAL	390	33.424	98.892	59.471	1.00144.62	C
ATOM	3039	CB	VAL	390	33.913	99.917	58.489	1.00144.62	C
ATOM	3040	CG1	VAL	390	34.805	100.932	59.209	1.00144.62	C
ATOM	3041	CG2	VAL	390	34.583	99.191	57.315	1.00144.62	C
ATOM	3042	C	VAL	390	32.645	97.928	58.630	1.00144.62	C
ATOM	3043	O	VAL	390	33.186	96.959	58.095	1.00144.62	O
ATOM	3044	N	ALA	391	31.333	98.197	58.470	1.00 63.25	N
ATOM	3045	CA	ALA	391	30.515	97.309	57.692	1.00 63.25	C
ATOM	3046	CB	ALA	391	29.230	96.864	58.408	1.00 63.25	C
ATOM	3047	C	ALA	391	30.101	97.980	56.419	1.00 63.25	C
ATOM	3048	O	ALA	391	29.663	99.127	56.399	1.00 63.25	O
ATOM	3049	N	LEU	392	30.235	97.261	55.292	1.00113.84	N
ATOM	3050	CA	LEU	392	29.804	97.823	54.046	1.00113.84	C
ATOM	3051	CB	LEU	392	30.868	97.756	52.941	1.00113.84	C
ATOM	3052	CG	LEU	392	31.988	98.789	53.156	1.00113.84	C
ATOM	3053	CD1	LEU	392	32.618	98.651	54.549	1.00113.84	C
ATOM	3054	CD2	LEU	392	33.031	98.725	52.028	1.00113.84	C
ATOM	3055	C	LEU	392	28.590	97.078	53.601	1.00113.84	C
ATOM	3056	O	LEU	392	28.525	95.851	53.674	1.00113.84	O
ATOM	3057	N	VAL	393	27.560	97.816	53.151	1.00 82.37	N
ATOM	3058	CA	VAL	393	26.372	97.133	52.732	1.00 82.37	C
ATOM	3059	CB	VAL	393	25.180	97.470	53.587	1.00 82.37	C
ATOM	3060	CG1	VAL	393	25.448	96.938	55.006	1.00 82.37	C
ATOM	3061	CG2	VAL	393	24.947	98.990	53.555	1.00 82.37	C
ATOM	3062	C	VAL	393	26.055	97.472	51.304	1.00 82.37	C
ATOM	3063	O	VAL	393	25.812	98.629	50.981	1.00 82.37	O
ATOM	3064	N	GLY	394	26.006	96.455	50.411	1.00 81.26	N
ATOM	3065	CA	GLY	394	25.734	96.666	49.007	1.00 81.26	C
ATOM	3066	C	GLY	394	25.028	95.440	48.495	1.00 81.26	C
ATOM	3067	O	GLY	394	24.822	94.490	49.251	1.00 81.26	O
ATOM	3068	N	ASN	395	24.621	95.432	47.198	1.00199.84	N
ATOM	3069	CA	ASN	395	23.891	94.303	46.673	1.00199.84	C
ATOM	3070	CB	ASN	395	22.369	94.403	46.892	1.00199.84	C
ATOM	3071	CG	ASN	395	22.020	93.954	48.305	1.00199.84	C
ATOM	3072	OD1	ASN	395	22.699	93.111	48.889	1.00199.84	O
ATOM	3073	ND2	ASN	395	20.912	94.514	48.861	1.00199.84	N
ATOM	3074	C	ASN	395	24.060	94.139	45.193	1.00199.84	C
ATOM	3075	O	ASN	395	24.413	93.057	44.728	1.00199.84	O
ATOM	3076	N	SER	396	23.815	95.208	44.403	1.00139.52	N
ATOM	3077	CA	SER	396	23.818	95.125	42.963	1.00139.52	C
ATOM	3078	CB	SER	396	23.331	96.402	42.270	1.00139.52	C
ATOM	3079	OG	SER	396	21.948	96.587	42.524	1.00139.52	O
ATOM	3080	C	SER	396	25.185	94.801	42.472	1.00139.52	C
ATOM	3081	O	SER	396	25.421	94.737	41.268	1.00139.52	O
ATOM	3082	N	GLY	397	26.143	94.660	43.396	1.00 54.24	N
ATOM	3083	CA	GLY	397	27.433	94.176	43.036	1.00 54.24	C
ATOM	3084	C	GLY	397	28.233	95.279	42.447	1.00 54.24	C
ATOM	3085	O	GLY	397	27.817	96.428	42.384	1.00 54.24	O
ATOM	3086	N	CYS	398	29.415	94.934	41.932	1.00104.57	N
ATOM	3087	CA	CYS	398	30.245	95.928	41.344	1.00104.57	C
ATOM	3088	CB	CYS	398	29.675	96.479	40.025	1.00104.57	C
ATOM	3089	SG	CYS	398	29.552	95.200	38.739	1.00104.57	S
ATOM	3090	C	CYS	398	30.510	97.090	42.252	1.00104.57	C
ATOM	3091	O	CYS	398	30.236	98.234	41.889	1.00104.57	O
ATOM	3092	N	GLY	399	31.137	96.842	43.424	1.00226.02	N
ATOM	3093	CA	GLY	399	31.531	97.980	44.210	1.00226.02	C
ATOM	3094	C	GLY	399	32.001	97.619	45.591	1.00226.02	C
ATOM	3095	O	GLY	399	33.194	97.750	45.873	1.00226.02	O
ATOM	3096	N	LYS	400	31.130	97.097	46.467	1.00192.68	N
ATOM	3097	CA	LYS	400	31.539	96.884	47.834	1.00192.68	C
ATOM	3098	CB	LYS	400	30.449	96.194	48.668	1.00192.68	C
ATOM	3099	CG	LYS	400	29.150	96.995	48.747	1.00192.68	C
ATOM	3100	CD	LYS	400	28.457	97.137	47.392	1.00192.68	C
ATOM	3101	CE	LYS	400	27.990	95.807	46.801	1.00192.68	C

ATOM	3102	NZ	LYS	400	27.351	96.045	45.488	1.00192.68	N
ATOM	3103	C	LYS	400	32.723	95.981	47.857	1.00192.68	C
ATOM	3104	O	LYS	400	33.809	96.389	48.266	1.00192.68	O
ATOM	3105	N	SER	401	32.565	94.792	47.260	1.00104.63	N
ATOM	3106	CA	SER	401	33.581	93.800	47.271	1.00104.63	C
ATOM	3107	CB	SER	401	33.209	92.566	46.432	1.00104.63	C
ATOM	3108	OG	SER	401	33.050	92.938	45.071	1.00104.63	O
ATOM	3109	C	SER	401	34.801	94.405	46.668	1.00104.63	C
ATOM	3110	O	SER	401	35.881	94.099	47.159	1.00104.63	O
ATOM	3111	N	THR	402	34.649	95.281	45.634	1.00207.63	N
ATOM	3112	CA	THR	402	35.757	95.841	44.895	1.00207.63	C
ATOM	3113	CB	THR	402	35.404	96.438	43.557	1.00207.63	C
ATOM	3114	OG1	THR	402	36.585	96.513	42.781	1.00207.63	O
ATOM	3115	CG2	THR	402	34.834	97.853	43.695	1.00207.63	C
ATOM	3116	C	THR	402	36.589	96.809	45.675	1.00207.63	C
ATOM	3117	O	THR	402	37.807	96.828	45.527	1.00207.63	O
ATOM	3118	N	THR	403	35.985	97.681	46.493	1.00157.71	N
ATOM	3119	CA	THR	403	36.832	98.518	47.289	1.00157.71	C
ATOM	3120	CB	THR	403	36.067	99.553	48.056	1.00157.71	C
ATOM	3121	OG1	THR	403	36.964	100.346	48.808	1.00157.71	O
ATOM	3122	CG2	THR	403	35.046	98.886	48.976	1.00157.71	C
ATOM	3123	C	THR	403	37.549	97.602	48.230	1.00157.71	C
ATOM	3124	O	THR	403	38.727	97.785	48.528	1.00157.71	O
ATOM	3125	N	VAL	404	36.843	96.561	48.700	1.00 91.49	N
ATOM	3126	CA	VAL	404	37.410	95.571	49.565	1.00 91.49	C
ATOM	3127	CB	VAL	404	36.433	94.491	49.932	1.00 91.49	C
ATOM	3128	CG1	VAL	404	37.176	93.398	50.718	1.00 91.49	C
ATOM	3129	CG2	VAL	404	35.271	95.128	50.714	1.00 91.49	C
ATOM	3130	C	VAL	404	38.490	94.947	48.773	1.00 91.49	C
ATOM	3131	O	VAL	404	39.416	94.349	49.321	1.00 91.49	O
ATOM	3132	N	GLN	405	38.310	94.996	47.442	1.00150.54	N
ATOM	3133	CA	GLN	405	39.230	94.386	46.553	1.00150.54	C
ATOM	3134	CB	GLN	405	38.673	94.257	45.128	1.00150.54	C
ATOM	3135	CG	GLN	405	39.483	93.280	44.281	1.00150.54	C
ATOM	3136	CD	GLN	405	39.298	91.915	44.928	1.00150.54	C
ATOM	3137	OE1	GLN	405	38.196	91.370	44.947	1.00150.54	O
ATOM	3138	NE2	GLN	405	40.402	91.348	45.486	1.00150.54	N
ATOM	3139	C	GLN	405	40.552	95.090	46.457	1.00150.54	C
ATOM	3140	O	GLN	405	41.579	94.531	46.833	1.00150.54	O
ATOM	3141	N	LEU	406	40.520	96.376	46.058	1.00154.32	N
ATOM	3142	CA	LEU	406	41.612	97.268	45.793	1.00154.32	C
ATOM	3143	CB	LEU	406	41.038	98.592	45.253	1.00154.32	C
ATOM	3144	CG	LEU	406	41.984	99.793	45.119	1.00154.32	C
ATOM	3145	CD1	LEU	406	41.317	100.899	44.291	1.00154.32	C
ATOM	3146	CD2	LEU	406					

ATOM	3176	O	ARG	409	46.268	95.617	43.318	1.00189.40	O
ATOM	3177	N	LEU	410	44.402	94.900	44.405	1.00153.15	N
ATOM	3178	CA	LEU	410	44.052	94.002	43.373	1.00153.15	C
ATOM	3179	CB	LEU	410	42.738	93.256	43.595	1.00153.15	C
ATOM	3180	CG	LEU	410	42.442	92.310	42.424	1.00153.15	C
ATOM	3181	CD1	LEU	410	43.649	91.419	42.089	1.00153.15	C
ATOM	3182	CD2	LEU	410	41.217	91.457	42.739	1.00153.15	C
ATOM	3183	C	LEU	410	43.987	94.804	42.110	1.00153.15	C
ATOM	3184	O	LEU	410	44.429	94.326	41.076	1.00153.15	O
ATOM	3185	N	TYR	411	43.486	96.054	42.166	1.00143.62	N
ATOM	3186	CA	TYR	411	43.485	96.935	41.028	1.00143.62	C
ATOM	3187	CB	TYR	411	42.067	97.323	40.576	1.00143.62	C
ATOM	3188	CG	TYR	411	41.376	96.139	40.001	1.00143.62	C
ATOM	3189	CD1	TYR	411	41.118	95.028	40.770	1.00143.62	C
ATOM	3190	CD2	TYR	411	40.949	96.166	38.694	1.00143.62	C
ATOM	3191	CE1	TYR	411	40.472	93.943	40.228	1.00143.62	C
ATOM	3192	CE2	TYR	411	40.302	95.085	38.149	1.00143.62	C
ATOM	3193	CZ	TYR	411	40.067	93.971	38.916	1.00143.62	C
ATOM	3194	OH	TYR	411	39.405	92.856	38.364	1.00143.62	O
ATOM	3195	C	TYR	411	44.066	98.217	41.498	1.00143.62	C
ATOM	3196	O	TYR	411	43.776	98.636	42.616	1.00143.62	O
ATOM	3197	N	ASP	412	44.897	98.879	40.665	1.00109.37	N
ATOM	3198	CA	ASP	412	45.383	100.163	41.088	1.00109.37	C
ATOM	3199	CB	ASP	412	46.487	100.768	40.200	1.00109.37	C
ATOM	3200	CG	ASP	412	47.815	100.106	40.530	1.00109.37	C
ATOM	3201	OD1	ASP	412	47.849	99.250	41.455	1.00109.37	O
ATOM	3202	OD2	ASP	412	48.823	100.468	39.868	1.00109.37	O
ATOM	3203	C	ASP	412	44.212	101.096	41.019	1.00109.37	C
ATOM	3204	O	ASP	412	43.300	100.869	40.230	1.00109.37	O
ATOM	3205	N	PRO	413	44.179	102.130	41.821	1.00103.79	N
ATOM	3206	CA	PRO	413	43.073	103.053	41.812	1.00103.79	C
ATOM	3207	CD	PRO	413	44.954	102.213	43.045	1.00103.79	C
ATOM	3208	CB	PRO	413	43.177	103.861	43.107	1.00103.79	C
ATOM	3209	CG	PRO	413	44.613	103.607	43.602	1.00103.79	C
ATOM	3210	C	PRO	413	43.077	103.890	40.580	1.00103.79	C
ATOM	3211	O	PRO	413	44.143	104.348	40.172	1.00103.79	O
ATOM	3212	N	THR	414	41.893	104.113	39.980	1.00 48.43	N
ATOM	3213	CA	THR	414	41.832	104.901	38.786	1.00 48.43	C
ATOM	3214	CB	THR	414	40.453	104.960	38.200	1.00 48.43	C
ATOM	3215	OG1	THR	414	39.996	103.652	37.891	1.00 48.43	O
ATOM	3216	CG2	THR	414	40.500	105.821	36.926	1.00 48.43	C
ATOM	3217	C	THR	414	42.237	106.306	39.108	1.00 48.43	C
ATOM	3218	O	THR	414	43.092	106.883	38.438	1.00 48.43	O
ATOM	3219	N	GLU	415	41.635	106.893	40.160	1.00 84.17	N
ATOM	3220	CA	GLU	415	41.956	108.244	40.528	1.00 84.17	C
ATOM	3221	CB	GLU	415	40.942	109.309	40.072	1.00 84.17	C
ATOM	3222	CG	GLU	415	40.947	109.609	38.575	1.00 84.17	C
ATOM	3223	CD	GLU	415	40.038	108.605	37.885	1.00 84.17	C
ATOM	3224	OE1	GLU	415	39.464	107.738	38.598	1.00 84.17	O
ATOM	3225	OE2	GLU	415	39.901	108.695	36.636	1.00 84.17	O
ATOM	3226	C	GLU	415	41.943	108.317	42.011	1.00 84.17	C
ATOM	3227	O	GLU	415	41.383	107.455	42.686	1.00 84.17	O
ATOM	3228	N	GLY	416	42.562	109.377	42.556	1.00 37.59	N
ATOM	3229	CA	GLY	416	42.590	109.509	43.978	1.00 37.59	C
ATOM	3230	C	GLY	416	43.575	108.502	44.458	1.00 37.59	C
ATOM	3231	O	GLY	416	44.504	108.152	43.733	1.00 37.59	O
ATOM	3232	N	MET	417	43.417	108.021	45.706	1.00143.70	N
ATOM	3233	CA	MET	417	44.354	107.044	46.186	1.00143.70	C
ATOM	3234	CB	MET	417	45.724	107.618	46.599	1.00143.70	C
ATOM	3235	CG	MET	417	46.626	108.095	45.463	1.00143.70	C
ATOM	3236	SD	MET	417	47.425	106.770	44.507	1.00143.70	S
ATOM	3237	CE	MET	417	48.210	107.897	43.318	1.00143.70	C
ATOM	3238	C	MET	417	43.834	106.449	47.446	1.00143.70	C
ATOM	3239	O	MET	417	42.791	106.845	47.965	1.00143.70	O
ATOM	3240	N	VAL	418	44.575	105.442	47.953	1.00151.39	N
ATOM	3241	CA	VAL	418	44.257	104.866	49.222	1.00151.39	C
ATOM	3242	CB	VAL	418	43.666	103.484	49.188	1.00151.39	C
ATOM	3243	CG1	VAL	418	42.465	103.468	48.231	1.00151.39	C
ATOM	3244	CG2	VAL	418	44.768	102.469	48.879	1.00151.39	C
ATOM	3245	C	VAL	418	45.553	104.746	49.940	1.00151.39	C
ATOM	3246	O	VAL	418	46.621	104.648	49.333	1.00151.39	O
ATOM	3247	N	SER	419	45.474	104.765	51.276	1.00 81.67	N
ATOM	3248	CA	SER	419	46.650	104.710	52.082	1.00 81.67	C
ATOM	3249	CB	SER	419	46.908	106.070	52.757	1.00 81.67	C

ATOM	3250	OG	SER	419	47.876	105.958	53.788	1.00	81.67	O
ATOM	3251	C	SER	419	46.411	103.716	53.169	1.00	81.67	C
ATOM	3252	O	SER	419	45.336	103.681	53.764	1.00	81.67	O
ATOM	3253	N	VAL	420	47.413	102.854	53.426	1.00	102.08	N
ATOM	3254	CA	VAL	420	47.364	101.952	54.535	1.00	102.08	C
ATOM	3255	CB	VAL	420	47.962	100.604	54.252	1.00	102.08	C
ATOM	3256	CG1	VAL	420	47.980	99.789	55.557	1.00	102.08	C
ATOM	3257	CG2	VAL	420	47.163	99.943	53.117	1.00	102.08	C
ATOM	3258	C	VAL	420	48.222	102.612	55.533	1.00	102.08	C
ATOM	3259	O	VAL	420	49.182	103.255	55.115	1.00	102.08	O
ATOM	3260	N	ASP	421	47.921	102.479	56.848	1.00	185.96	N
ATOM	3261	CA	ASP	421	48.741	103.211	57.768	1.00	185.96	C
ATOM	3262	CB	ASP	421	50.233	102.830	57.618	1.00	185.96	C
ATOM	3263	CG	ASP	421	51.093	103.463	58.707	1.00	185.96	C
ATOM	3264	OD1	ASP	421	50.543	103.796	59.788	1.00	185.96	O
ATOM	3265	OD2	ASP	421	52.315	103.639	58.458	1.00	185.96	O
ATOM	3266	C	ASP	421	48.541	104.630	57.320	1.00	185.96	C
ATOM	3267	O	ASP	421	47.405	105.077	57.162	1.00	185.96	O
ATOM	3268	N	GLY	422	49.657	105.372	57.227	1.00	113.58	N
ATOM	3269	CA	GLY	422	49.873	106.657	56.621	1.00	113.58	C
ATOM	3270	C	GLY	422	50.213	106.625	55.143	1.00	113.58	C
ATOM	3271	O	GLY	422	50.067	107.639	54.462	1.00	113.58	O
ATOM	3272	N	GLN	423	50.788	105.505	54.638	1.00	107.18	N
ATOM	3273	CA	GLN	423	51.391	105.423	53.325	1.00	107.18	C
ATOM	3274	CB	GLN	423	52.563	104.433	53.299	1.00	107.18	C
ATOM	3275	CG	GLN	423	53.679	104.782	54.283	1.00	107.18	C
ATOM	3276	CD	GLN	423	54.560	103.549	54.388	1.00	107.18	C
ATOM	3277	OE1	GLN	423	54.057	102.432	54.485	1.00	107.18	O
ATOM	3278	NE2	GLN	423	55.905	103.746	54.360	1.00	107.18	N
ATOM	3279	C	GLN	423	50.427	104.943	52.286	1.00	107.18	C
ATOM	3280	O	GLN	423	49.422	104.300	52.577	1.00	107.18	O
ATOM	3281	N	ASP	424	50.749	105.252	51.013	1.00	90.62	N
ATOM	3282	CA	ASP	424	49.949	104.888	49.884	1.00	90.62	C
ATOM	3283	CB	ASP	424	50.311	105.719	48.639	1.00	90.62	C
ATOM	3284	CG	ASP	424	49.574	105.174	47.430	1.00	90.62	C
ATOM	3285	OD1	ASP	424	50.018	104.120	46.905	1.00	90.62	O
ATOM	3286	OD2	ASP	424	48.565	105.800	47.012	1.00	90.62	O
ATOM	3287	C	ASP	424	50.189	103.441	49.591	1.00	90.62	C
ATOM	3288	O	ASP	424	51.324	102.979	49.498	1.00	90.62	O
ATOM	3289	N	ILE	425	49.096	102.691	49.384	1.00	105.13	N
ATOM	3290	CA	ILE	425	49.171	101.264	49.230	1.00	105.13	C
ATOM	3291	CB	ILE	425	47.828	100.630	49.004	1.00	105.13	C
ATOM	3292	CG1	ILE	425	47.980	99.105	48.931	1.00	105.13	C
ATOM	3293	CG2	ILE	425	47.189	101.244	47.747	1.00	105.13	C
ATOM	3294	CD1	ILE	425	46.641	98.372	48.929	1.00	105.13	C
ATOM	3295	C	ILE	425	50.032	100.857	48.068	1.00	105.13	C
ATOM	3296	O	ILE	425	50.905	100.002	48.211	1.00	105.13	O
ATOM	3297	N	ARG	426	49.865	101.514	46.910	1.00	173.45	N
ATOM	3298	CA	ARG	426	50.476	101.125	45.672	1.00	173.45	C
ATOM	3299	CB	ARG	426	50.191	102.159	44.576	1.00	173.45	C
ATOM	3300	CG	ARG	426	48.692	102.372	44.371	1.00	173.45	C
ATOM	3301	CD	ARG	426	48.348	103.689	43.678	1.00	173.45	C
ATOM	3302	NE	ARG	426	48.425	103.467	42.210	1.00	173.45	N
ATOM	3303	CZ	ARG	426	47.729	104.292	41.376	1.00	173.45	C
ATOM	3304	NH1	ARG	426	46.980	105.307	41.899	1.00	173.45	N
ATOM	3305	NH2	ARG	426	47.777	104.101	40.026	1.00	173.45	N
ATOM	3306	C	ARG	426	51.954	101.075	45.867	1.00	173.45	C
ATOM	3307	O	ARG	426	52.635	100.212	45.312	1.00	173.45	O
ATOM	3308	N	THR	427	52.472	101.999	46.691	1.00	161.81	N
ATOM	3309	CA	THR	427	53.877	102.146	46.923	1.00	161.81	C
ATOM	3310	CB	THR	427	54.132	103.158	47.994	1.00	161.81	C
ATOM	3311	OG1	THR	427	53.584	104.412	47.635	1.00	161.81	O
ATOM	3312	CG2	THR	427	55.638	103.286	48.202	1.00	161.81	C
ATOM	3313	C	THR	427	54.474	100.874	47.446	1.00	161.81	C
ATOM	3314	O	THR	427	55.553	100.472	47.018	1.00	161.81	O
ATOM	3315	N	ILE	428	53.786	100.215	48.390	1.00	211.52	N
ATOM	3316	CA	ILE	428	54.280	99.050	49.080	1.00	211.52	C
ATOM	3317	CB	ILE	428	53.364	98.571	50.169	1.00	211.52	C
ATOM	3318	CG1	ILE	428	52.900	99.691	51.095	1.00	211.52	C
ATOM	3319	CG2	ILE	428	54.111	97.485	50.947	1.00	211.52	C
ATOM	3320	CD1	ILE	428	51.746	99.236	51.988	1.00	211.52	C
ATOM	3321	C	ILE	428	54.316	97.868	48.147	1.00	211.52	C
ATOM	3322	O	ILE	428	53.556	97.796	47.182	1.00	211.52	O
ATOM	3323	N	ASN	429	55.232	96.909	48.422	1.00	92.01	N

ATOM	3324	CA	ASN	429	55.347	95.675	47.689	1.00	92.01	C
ATOM	3325	CB	ASN	429	56.571	94.836	48.092	1.00	92.01	C
ATOM	3326	CG	ASN	429	56.496	93.511	47.347	1.00	92.01	C
ATOM	3327	OD1	ASN	429	56.593	92.444	47.950	1.00	92.01	O
ATOM	3328	ND2	ASN	429	56.309	93.571	46.003	1.00	92.01	N
ATOM	3329	C	ASN	429	54.135	94.821	47.924	1.00	92.01	C
ATOM	3330	O	ASN	429	53.525	94.846	48.991	1.00	92.01	O
ATOM	3331	N	VAL	430	53.748	94.053	46.882	1.00	108.32	N
ATOM	3332	CA	VAL	430	52.554	93.244	46.869	1.00	108.32	C
ATOM	3333	CB	VAL	430	52.276	92.658	45.516	1.00	108.32	C
ATOM	3334	CG1	VAL	430	50.995	91.807	45.600	1.00	108.32	C
ATOM	3335	CG2	VAL	430	52.212	93.801	44.487	1.00	108.32	C
ATOM	3336	C	VAL	430	52.558	92.090	47.832	1.00	108.32	C
ATOM	3337	O	VAL	430	51.725	92.077	48.737	1.00	108.32	O
ATOM	3338	N	ARG	431	53.539	91.160	47.720	1.00	181.77	N
ATOM	3339	CA	ARG	431	53.502	89.927	48.472	1.00	181.77	C
ATOM	3340	CB	ARG	431	54.752	89.044	48.303	1.00	181.77	C
ATOM	3341	CG	ARG	431	56.051	89.696	48.770	1.00	181.77	C
ATOM	3342	CD	ARG	431	57.264	88.771	48.666	1.00	181.77	C
ATOM	3343	NE	ARG	431	57.098	87.709	49.697	1.00	181.77	N
ATOM	3344	CZ	ARG	431	56.388	86.578	49.418	1.00	181.77	C
ATOM	3345	NH1	ARG	431	55.845	86.396	48.179	1.00	181.77	N
ATOM	3346	NH2	ARG	431	56.226	85.624	50.381	1.00	181.77	N
ATOM	3347	C	ARG	431	53.412	90.313	49.918	1.00	181.77	C
ATOM	3348	O	ARG	431	52.735	89.655	50.710	1.00	181.77	O
ATOM	3349	N	PHE	432	54.097	91.417	50.276	1.00	167.87	N
ATOM	3350	CA	PHE	432	54.096	91.973	51.604	1.00	167.87	C
ATOM	3351	CB	PHE	432	55.069	93.171	51.669	1.00	167.87	C
ATOM	3352	CG	PHE	432	55.228	93.743	53.042	1.00	167.87	C
ATOM	3353	CD1	PHE	432	54.402	94.752	53.485	1.00	167.87	C
ATOM	3354	CD2	PHE	432	56.222	93.294	53.882	1.00	167.87	C
ATOM	3355	CE1	PHE	432	54.553	95.294	54.740	1.00	167.87	C
ATOM	3356	CE2	PHE	432	56.380	93.832	55.139	1.00	167.87	C
ATOM	3357	CZ	PHE	432	55.544	94.833	55.573	1.00	167.87	C
ATOM	3358	C	PHE	432	52.722	92.466	51.976	1.00	167.87	C
ATOM	3359	O	PHE	432	52.181	92.103	53.023	1.00	167.87	O
ATOM	3360	N	LEU	433	52.107	93.287	51.099	1.00	162.54	N
ATOM	3361	CA	LEU	433	50.843	93.904	51.410	1.00	162.54	C
ATOM	3362	CB	LEU	433	50.372	94.819	50.262	1.00	162.54	C
ATOM	3363	CG	LEU	433	49.067	95.598	50.519	1.00	162.54	C
ATOM	3364	CD1	LEU	433	47.828	94.696	50.553	1.00	162.54	C
ATOM	3365	CD2	LEU	433	49.190	96.467	51.774	1.00	162.54	C
ATOM	3366	C	LEU	433	49.842	92.822	51.605	1.00	162.54	C
ATOM	3367	O	LEU	433	49.184	92.732	52.641	1.00	162.54	O
ATOM	3368	N	ARG	434	49.797	91.894	50.644	1.00	163.31	N
ATOM	3369	CA	ARG	434	48.817	90.858	50.659	1.00	163.31	C
ATOM	3370	CB	ARG	434	48.987	89.886	49.486	1.00	163.31	C
ATOM	3371	CG	ARG	434	48.711	90.564	48.146	1.00	163.31	C
ATOM	3372	CD	ARG	434	47.221	90.644	47.811	1.00	163.31	C
ATOM	3373	NE	ARG	434	47.078	91.452	46.567	1.00	163.31	N
ATOM	3374	CZ	ARG	434	47.321	90.874	45.355	1.00	163.31	C
ATOM	3375	NH1	ARG	434	47.802	89.598	45.304	1.00	163.31	N
ATOM	3376	NH2	ARG	434	47.097	91.571	44.202	1.00	163.31	N
ATOM	3377	C	ARG	434	48.962	90.091	51.937	1.00	163.31	C
ATOM	3378	O	ARG	434	47.977	89.589	52.474	1.00	163.31	O
ATOM	3379	N	GLU	435	50.199	89.932	52.442	1.00	86.30	N
ATOM	3380	CA	GLU	435	50.361	89.219	53.680	1.00	86.30	C
ATOM	3381	CB	GLU	435	51.834	88.906	53.993	1.00	86.30	C
ATOM	3382	CG	GLU	435	52.440	87.917	52.990	1.00	86.30	C
ATOM	3383	CD	GLU	435	53.891	87.652	53.364	1.00	86.30	C
ATOM	3384	OE1	GLU	435	54.658	88.642	53.521	1.00	86.30	O
ATOM	3385	OE2	GLU	435	54.247	86.453	53.505	1.00	86.30	O
ATOM	3386	C	GLU	435	49.763	90.006	54.827	1.00	86.30	C
ATOM	3387	O	GLU	435	49.051	89.463	55.670	1.00	86.30	O
ATOM	3388	N	ILE	436	50.002	91.329	54.845	1.00	167.43	N
ATOM	3389	CA	ILE	436	49.618	92.274	55.865	1.00	167.43	C
ATOM	3390	CB	ILE	436	50.168	93.648	55.597	1.00	167.43	C
ATOM	3391	CG1	ILE	436	51.699	93.564	55.489	1.00	167.43	C
ATOM	3392	CG2	ILE	436	49.712	94.599	56.720	1.00	167.43	C
ATOM	3393	CD1	ILE	436	52.360	92.996	56.744	1.00	167.43	C
ATOM	3394	C	ILE	436	48.127	92.356	55.968	1.00	167.43	C
ATOM	3395	O	ILE	436	47.602	92.873	56.953	1.00	167.43	O
ATOM	3396	N	ILE	437	47.398	91.986	54.898	1.00	135.46	N
ATOM	3397	CA	ILE	437	45.970	92.109	54.991	1.00	135.46	C

ATOM	3398	CB	ILE	437	45.379	92.915	53.866	1.00135.46	C
ATOM	3399	CG1	ILE	437	45.872	94.372	53.921	1.00135.46	C
ATOM	3400	CG2	ILE	437	43.851	92.802	53.948	1.00135.46	C
ATOM	3401	CD1	ILE	437	47.341	94.551	53.548	1.00135.46	C
ATOM	3402	C	ILE	437	45.297	90.763	54.997	1.00135.46	C
ATOM	3403	O	ILE	437	45.145	90.118	53.962	1.00135.46	O
ATOM	3404	N	GLY	438	44.816	90.326	56.179	1.00 49.24	N
ATOM	3405	CA	GLY	438	44.151	89.058	56.313	1.00 49.24	C
ATOM	3406	C	GLY	438	42.825	89.179	55.640	1.00 49.24	C
ATOM	3407	O	GLY	438	42.163	90.208	55.767	1.00 49.24	O
ATOM	3408	N	VAL	439	42.395	88.125	54.912	1.00101.31	N
ATOM	3409	CA	VAL	439	41.129	88.220	54.235	1.00101.31	C
ATOM	3410	CB	VAL	439	41.267	88.587	52.782	1.00101.31	C
ATOM	3411	CG1	VAL	439	39.876	88.558	52.126	1.00101.31	C
ATOM	3412	CG2	VAL	439	41.971	89.950	52.681	1.00101.31	C
ATOM	3413	C	VAL	439	40.384	86.907	54.283	1.00101.31	C
ATOM	3414	O	VAL	439	40.958	85.832	54.112	1.00101.31	O
ATOM	3415	N	VAL	440	39.054	86.964	54.518	1.00 99.46	N
ATOM	3416	CA	VAL	440	38.268	85.752	54.526	1.00 99.46	C
ATOM	3417	CB	VAL	440	37.890	85.314	55.911	1.00 99.46	C
ATOM	3418	CG1	VAL	440	37.045	84.032	55.817	1.00 99.46	C
ATOM	3419	CG2	VAL	440	39.174	85.154	56.735	1.00 99.46	C
ATOM	3420	C	VAL	440	36.990	86.016	53.775	1.00 99.46	C
ATOM	3421	O	VAL	440	36.137	86.769	54.243	1.00 99.46	O
ATOM	3422	N	SER	441	36.823	85.374	52.596	1.00147.54	N
ATOM	3423	CA	SER	441	35.653	85.510	51.763	1.00147.54	C
ATOM	3424	CB	SER	441	35.958	85.438	50.261	1.00147.54	C
ATOM	3425	OG	SER	441	36.829	86.490	49.887	1.00147.54	O
ATOM	3426	C	SER	441	34.731	84.350	52.030	1.00147.54	C
ATOM	3427	O	SER	441	34.964	83.546	52.934	1.00147.54	O
ATOM	3428	N	GLN	442	33.644	84.254	51.224	1.00224.23	N
ATOM	3429	CA	GLN	442	32.592	83.303	51.473	1.00224.23	C
ATOM	3430	CB	GLN	442	31.468	83.391	50.432	1.00224.23	C
ATOM	3431	CG	GLN	442	31.009	84.809	50.119	1.00224.23	C
ATOM	3432	CD	GLN	442	31.841	85.301	48.938	1.00224.23	C
ATOM	3433	OE1	GLN	442	33.005	84.937	48.779	1.00224.23	O
ATOM	3434	NE2	GLN	442	31.217	86.143	48.072	1.00224.23	N
ATOM	3435	C	GLN	442	33.014	81.876	51.382	1.00224.23	C
ATOM	3436	O	GLN	442	33.308	81.257	52.401	1.00224.23	O
ATOM	3437	N	GLU	443	33.188	81.360	50.146	1.00180.38	N
ATOM	3438	CA	GLU	443	33.435	79.957	49.992	1.00180.38	C
ATOM	3439	CB	GLU	443	33.611	79.563	48.512	1.00180.38	C
ATOM	3440	CG	GLU	443	34.623	78.440	48.252	1.00180.38	C
ATOM	3441	CD	GLU	443	34.146	77.115	48.825	1.00180.38	C
ATOM	3442	OE1	GLU	443	33.529	77.120	49.921	1.00180.38	O
ATOM	3443	OE2	GLU	443	34.410	76.071	48.171	1.00180.38	O
ATOM	3444	C	GLU	443	34.708	79.651	50.693	1.00180.38	C
ATOM	3445	O	GLU	443	35.772	80.028	50.218	1.00180.38	O
ATOM	3446	N	PRO	444	34.641	79.026	51.840	1.00137.44	N
ATOM	3447	CA	PRO	444	35.816	78.662	52.563	1.00137.44	C
ATOM	3448	CD	PRO	444	33.432	78.449	52.409	1.00137.44	C
ATOM	3449	CB	PRO	444	35.317	78.154	53.912	1.00137.44	C
ATOM	3450	CG	PRO	444	33.929	77.571	53.573	1.00137.44	C
ATOM	3451	C	PRO	444	36.369	77.564	51.748	1.00137.44	C
ATOM	3452	O	PRO	444	35.701	76.537	51.634	1.00137.44	O
ATOM	3453	N	VAL	445	37.592	77.704	51.227	1.00179.67	N
ATOM	3454	CA	VAL	445	38.009	76.615	50.430	1.00179.67	C
ATOM	3455	CB	VAL	445	38.411	77.008	49.038	1.00179.67	C
ATOM	3456	CG1	VAL	445	39.628	77.949	49.120	1.00179.67	C
ATOM	3457	CG2	VAL	445	38.665	75.726	48.228	1.00179.67	C
ATOM	3458	C	VAL	445	39.178	75.983	51.069	1.00179.67	C
ATOM	3459	O	VAL	445	40.111	76.650	51.513	1.00179.67	O
ATOM	3460	N	LEU	446	39.130	74.647	51.135	1.00124.19	N
ATOM	3461	CA	LEU	446	40.209	73.929	51.716	1.00124.19	C
ATOM	3462	CB	LEU	446	39.801	73.115	52.951	1.00124.19	C
ATOM	3463	CG	LEU	446	39.341	74.023	54.102	1.00124.19	C
ATOM	3464	CD1	LEU	446	38.940	73.207	55.341	1.00124.19	C
ATOM	3465	CD2	LEU	446	40.397	75.099	54.410	1.00124.19	C
ATOM	3466	C	LEU	446	40.661	72.991	50.662	1.00124.19	C
ATOM	3467	O	LEU	446	39.870	72.239	50.092	1.00124.19	O
ATOM	3468	N	PHE	447	41.966	73.029	50.375	1.00231.58	N
ATOM	3469	CA	PHE	447	42.503	72.198	49.356	1.00231.58	C
ATOM	3470	CB	PHE	447	43.969	72.522	49.034	1.00231.58	C
ATOM	3471	CG	PHE	447	44.023	73.988	48.778	1.00231.58	C

ATOM	3472	CD1	PHE	447	43.792	74.509	47.526	1.00231.58	C
ATOM	3473	CD2	PHE	447	44.289	74.847	49.819	1.00231.58	C
ATOM	3474	CE1	PHE	447	43.844	75.868	47.320	1.00231.58	C
ATOM	3475	CE2	PHE	447	44.343	76.205	49.619	1.00231.58	C
ATOM	3476	CZ	PHE	447	44.121	76.719	48.365	1.00231.58	C
ATOM	3477	C	PHE	447	42.451	70.802	49.878	1.00231.58	C
ATOM	3478	O	PHE	447	42.349	70.584	51.082	1.00231.58	O
ATOM	3479	N	ALA	448	42.483	69.797	48.987	1.00101.47	N
ATOM	3480	CA	ALA	448	42.393	68.476	49.532	1.00101.47	C
ATOM	3481	CB	ALA	448	42.115	67.390	48.478	1.00101.47	C
ATOM	3482	C	ALA	448	43.708	68.172	50.160	1.00101.47	C
ATOM	3483	O	ALA	448	44.711	68.001	49.466	1.00101.47	O
ATOM	3484	N	THR	449	43.723	68.107	51.509	1.00148.20	N
ATOM	3485	CA	THR	449	44.961	67.860	52.172	1.00148.20	C
ATOM	3486	CB	THR	449	45.921	68.991	51.952	1.00148.20	C
ATOM	3487	OG1	THR	449	47.244	68.582	52.241	1.00148.20	O
ATOM	3488	CG2	THR	449	45.519	70.176	52.845	1.00148.20	C
ATOM	3489	C	THR	449	44.702	67.707	53.643	1.00148.20	C
ATOM	3490	O	THR	449	43.570	67.522	54.087	1.00148.20	O
ATOM	3491	N	THR	450	45.785	67.780	54.435	1.00131.30	N
ATOM	3492	CA	THR	450	45.778	67.641	55.862	1.00131.30	C
ATOM	3493	CB	THR	450	47.198	67.578	56.346	1.00131.30	C
ATOM	3494	OG1	THR	450	47.924	66.635	55.582	1.00131.30	O
ATOM	3495	CG2	THR	450	47.237	67.133	57.805	1.00131.30	C
ATOM	3496	C	THR	450	45.227	68.936	56.383	1.00131.30	C
ATOM	3497	O	THR	450	45.315	69.962	55.711	1.00131.30	O
ATOM	3498	N	ILE	451	44.631	68.930	57.591	1.00105.05	N
ATOM	3499	CA	ILE	451	44.159	70.168	58.140	1.00105.05	C
ATOM	3500	CB	ILE	451	43.520	69.997	59.491	1.00105.05	C
ATOM	3501	CG1	ILE	451	42.255	69.128	59.384	1.00105.05	C
ATOM	3502	CG2	ILE	451	43.255	71.393	60.077	1.00105.05	C
ATOM	3503	CD1	ILE	451	41.167	69.739	58.500	1.00105.05	C
ATOM	3504	C	ILE	451	45.378	71.010	58.312	1.00105.05	C
ATOM	3505	O	ILE	451	45.424	72.167	57.896	1.00105.05	O
ATOM	3506	N	ALA	452	46.442	70.399	58.860	1.00 61.39	N
ATOM	3507	CA	ALA	452	47.635	71.132	59.150	1.00 61.39	C
ATOM	3508	CB	ALA	452	48.757	70.236	59.699	1.00 61.39	C
ATOM	3509	C	ALA	452	48.139	71.756	57.889	1.00 61.39	C
ATOM	3510	O	ALA	452	48.410	72.954	57.850	1.00 61.39	O
ATOM	3511	N	GLU	453	48.183	70.985	56.793	1.00147.85	N
ATOM	3512	CA	GLU	453	48.750	71.461	55.568	1.00147.85	C
ATOM	3513	CB	GLU	453	48.667	70.410	54.450	1.00147.85	C
ATOM	3514	CG	GLU	453	49.426	70.808	53.187	1.00147.85	C
ATOM	3515	CD	GLU	453	50.916	70.744	53.490	1.00147.85	C
ATOM	3516	OE1	GLU	453	51.278</				

ATOM	3546	O	ARG	456	51.240	77.139	54.713	1.00197.04
ATOM	3547	N	TYR	457	49.270	76.215	54.246	1.00168.69
ATOM	3548	CA	TYR	457	49.136	76.996	53.045	1.00168.69
ATOM	3549	CB	TYR	457	47.792	76.769	52.323	1.00168.69
ATOM	3550	CG	TYR	457	47.856	75.538	51.480	1.00168.69
ATOM	3551	CD1	TYR	457	47.812	74.277	52.032	1.00168.69
ATOM	3552	CD2	TYR	457	47.977	75.658	50.114	1.00168.69
ATOM	3553	CE1	TYR	457	47.878	73.161	51.227	1.00168.69
ATOM	3554	CE2	TYR	457	48.042	74.548	49.307	1.00168.69
ATOM	3555	CZ	TYR	457	47.992	73.293	49.863	1.00168.69
ATOM	3556	OH	TYR	457	48.058	72.152	49.035	1.00168.69
ATOM	3557	C	TYR	457	49.161	78.419	53.484	1.00168.69
ATOM	3558	O	TYR	457	49.727	79.282	52.815	1.00168.69
ATOM	3559	N	GLY	458	48.561	78.690	54.653	1.00 47.21
ATOM	3560	CA	GLY	458	48.500	80.033	55.138	1.00 47.21
ATOM	3561	C	GLY	458	49.902	80.532	55.254	1.00 47.21
ATOM	3562	O	GLY	458	50.188	81.675	54.899	1.00 47.21
ATOM	3563	N	ARG	459	50.817	79.698	55.780	1.00155.87
ATOM	3564	CA	ARG	459	52.181	80.131	55.856	1.00155.87
ATOM	3565	CB	ARG	459	52.512	80.778	57.215	1.00155.87
ATOM	3566	CG	ARG	459	53.809	81.588	57.249	1.00155.87
ATOM	3567	CD	ARG	459	53.972	82.402	58.537	1.00155.87
ATOM	3568	NE	ARG	459	54.404	81.465	59.612	1.00155.87
ATOM	3569	CZ	ARG	459	53.999	81.656	60.902	1.00155.87
ATOM	3570	NH1	ARG	459	53.168	82.692	61.213	1.00155.87
ATOM	3571	NH2	ARG	459	54.421	80.803	61.881	1.00155.87
ATOM	3572	C	ARG	459	53.027	78.916	55.679	1.00155.87
ATOM	3573	O	ARG	459	52.936	77.994	56.489	1.00155.87
ATOM	3574	N	GLU	460	53.874	78.884	54.623	1.00142.37
ATOM	3575	CA	GLU	460	54.592	77.683	54.279	1.00142.37
ATOM	3576	CB	GLU	460	55.631	77.912	53.168	1.00142.37
ATOM	3577	CG	GLU	460	55.030	78.392	51.845	1.00142.37
ATOM	3578	CD	GLU	460	54.847	79.903	51.924	1.00142.37
ATOM	3579	OE1	GLU	460	55.141	80.491	52.999	1.00142.37
ATOM	3580	OE2	GLU	460	54.415	80.495	50.900	1.00142.37
ATOM	3581	C	GLU	460	55.362	77.221	55.494	1.00142.37
ATOM	3582	O	GLU	460	55.077	76.156	56.040	1.00142.37
ATOM	3583	N	ASN	461	56.288	78.046	56.028	1.00132.98
ATOM	3584	CA	ASN	461	57.055	77.569	57.146	1.00132.98
ATOM	3585	CB	ASN	461	58.482	78.147	57.194	1.00132.98
ATOM	3586	CG	ASN	461	59.264	77.422	58.281	1.00132.98
ATOM	3587	OD1	ASN	461	58.710	76.627	59.038	1.00132.98
ATOM	3588	ND2	ASN	461	60.591	77.709	58.367	1.00132.98
ATOM	3589	C	ASN	461	56.361	77.989	58.409	1.00132.98
ATOM	3590	O	ASN	461	56.152	79.181	58.627	1.00132.98
ATOM	3591	N	VAL	462	55.964	77.013	59.262	1.00170.36
ATOM	3592	CA	VAL	462	55.323	77.311	60.521	1.00170.36
ATOM	3593	CB	VAL	462	53.846	77.664	60.457	1.00170.36
ATOM	3594	CG1	VAL	462	53.577	78.729	59.392	1.00170.36
ATOM	3595	CG2	VAL	462	53.001	76.401	60.281	1.00170.36
ATOM	3596	C	VAL	462	55.330	76.031	61.304	1.00170.36
ATOM	3597	O	VAL	462	55.267	74.945	60.730	1.00170.36
ATOM	3598	N	THR	463	55.379	76.119	62.648	1.00 59.57
ATOM	3599	CA	THR	463	55.393	74.917	63.434	1.00 59.57
ATOM	3600	CB	THR	463	56.227	75.041	64.675	1.00 59.57
ATOM	3601	OG1	THR	463	57.556	75.404	64.333	1.00 59.57
ATOM	3602	CG2	THR	463	56.224	73.689	65.409	1.00 59.57
ATOM	3603	C	THR	463	53.993	74.601	63.868	1.00 59.57
ATOM	3604	O	THR	463	53.163	75.487	64.049	1.00 59.57
ATOM	3605	N	MET	464	53.726	73.309	64.121	1.00134.40
ATOM	3606	CA	MET	464	52.442	72.804	64.520	1.00134.40
ATOM	3607	CB	MET	464	52.447	71.293	64.775	1.00134.40
ATOM	3608	CG	MET	464	51.081	70.772	65.211	1.00134.40
ATOM	3609	SD	MET	464	51.103	69.078	65.859	1.00134.40
ATOM	3610	CE	MET	464	52.000	69.495	67.382	1.00134.40
ATOM	3611	C	MET	464	52.099	73.436	65.818	1.00134.40
ATOM	3612	O	MET	464	50.929	73.546	66.170	1.00134.40
ATOM	3613	N	ASP	465	53.112	73.800	66.614	1.00 46.86
ATOM	3614	CA	ASP	465	52.799	74.444	67.851	1.00 46.86
ATOM	3615	CB	ASP	465	54.049	74.843	68.655	1.00 46.86
ATOM	3616	CG	ASP	465	54.694	73.576	69.200	1.00 46.86
ATOM	3617	OD1	ASP	465	53.943	72.612	69.506	1.00 46.86
ATOM	3618	OD2	ASP	465	55.949	73.555	69.311	1.00 46.86
ATOM	3619	C	ASP	465	52.072	75.701	67.493	1.00 46.86

ATOM	3620	O	ASP	465	51.096	76.073	68.144	1.00	46.86	O
ATOM	3621	N	GLU	466	52.537	76.377	66.425	1.00	127.31	N
ATOM	3622	CA	GLU	466	51.965	77.617	65.980	1.00	127.31	C
ATOM	3623	CB	GLU	466	52.590	78.112	64.660	1.00	127.31	C
ATOM	3624	CG	GLU	466	54.113	78.009	64.555	1.00	127.31	C
ATOM	3625	CD	GLU	466	54.752	78.697	65.739	1.00	127.31	C
ATOM	3626	OE1	GLU	466	54.615	79.944	65.845	1.00	127.31	O
ATOM	3627	OE2	GLU	466	55.391	77.977	66.552	1.00	127.31	O
ATOM	3628	C	GLU	466	50.554	77.336	65.572	1.00	127.31	C
ATOM	3629	O	GLU	466	49.610	78.008	65.986	1.00	127.31	O
ATOM	3630	N	ILE	467	50.392	76.284	64.752	1.00	65.59	N
ATOM	3631	CA	ILE	467	49.125	75.928	64.189	1.00	65.59	C
ATOM	3632	CB	ILE	467	49.249	74.716	63.324	1.00	65.59	C
ATOM	3633	CG1	ILE	467	50.247	75.012	62.194	1.00	65.59	C
ATOM	3634	CG2	ILE	467	47.847	74.315	62.834	1.00	65.59	C
ATOM	3635	CD1	ILE	467	50.818	73.758	61.543	1.00	65.59	C
ATOM	3636	C	ILE	467	48.195	75.602	65.306	1.00	65.59	C
ATOM	3637	O	ILE	467	47.049	76.044	65.322	1.00	65.59	O
ATOM	3638	N	GLU	468	48.688	74.846	66.298	1.00	55.60	N
ATOM	3639	CA	GLU	468	47.873	74.422	67.390	1.00	55.60	C
ATOM	3640	CB	GLU	468	48.666	73.636	68.449	1.00	55.60	C
ATOM	3641	CG	GLU	468	47.788	72.988	69.523	1.00	55.60	C
ATOM	3642	CD	GLU	468	48.675	72.082	70.366	1.00	55.60	C
ATOM	3643	OE1	GLU	468	49.816	72.507	70.690	1.00	55.60	O
ATOM	3644	OE2	GLU	468	48.229	70.948	70.690	1.00	55.60	O
ATOM	3645	C	GLU	468	47.337	75.664	68.014	1.00	55.60	C
ATOM	3646	O	GLU	468	46.140	75.782	68.264	1.00	55.60	O
ATOM	3647	N	LYS	469	48.210	76.660	68.219	1.00	137.02	N
ATOM	3648	CA	LYS	469	47.741	77.882	68.789	1.00	137.02	C
ATOM	3649	CB	LYS	469	48.863	78.909	69.004	1.00	137.02	C
ATOM	3650	CG	LYS	469	48.360	80.334	69.246	1.00	137.02	C
ATOM	3651	CD	LYS	469	47.403	80.490	70.429	1.00	137.02	C
ATOM	3652	CE	LYS	469	46.040	81.040	70.007	1.00	137.02	C
ATOM	3653	NZ	LYS	469	46.221	82.373	69.388	1.00	137.02	N
ATOM	3654	C	LYS	469	46.733	78.491	67.867	1.00	137.02	C
ATOM	3655	O	LYS	469	45.655	78.896	68.300	1.00	137.02	O
ATOM	3656	N	ALA	470	47.028	78.510	66.555	1.00	56.86	N
ATOM	3657	CA	ALA	470	46.163	79.204	65.646	1.00	56.86	C
ATOM	3658	CB	ALA	470	46.634	79.099	64.186	1.00	56.86	C
ATOM	3659	C	ALA	470	44.785	78.617	65.714	1.00	56.86	C
ATOM	3660	O	ALA	470	43.803	79.330	65.912	1.00	56.86	O
ATOM	3661	N	VAL	471	44.693	77.281	65.641	1.00	134.82	N
ATOM	3662	CA	VAL	471	43.450	76.572	65.602	1.00	134.82	C
ATOM	3663	CB	VAL	471	43.741	75.100	65.707	1.00	134.82	C
ATOM	3664	CG1	VAL	471	42.450	74.282	65.674	1.00	134.82	C
ATOM	3665	CG2	VAL	471	44.750	74.727	64.614	1.00	134.82	C
ATOM	3666	C	VAL	471	42.648	76.948	66.803	1.00	134.82	C
ATOM	3667	O	VAL	471	41.529	77.447	66.692	1.00	134.82	O
ATOM	3668	N	LYS	472	43.253	76.804	67.991	1.00	109.11	N
ATOM	3669	CA	LYS	472	42.537	77.021	69.210	1.00	109.11	C
ATOM	3670	CB	LYS	472	43.417	76.868	70.463	1.00	109.11	C
ATOM	3671	CG	LYS	472	43.987	75.461	70.648	1.00	109.11	C
ATOM	3672	CD	LYS	472	45.071	75.386	71.725	1.00	109.11	C
ATOM	3673	CE	LYS	472	45.752	74.020	71.828	1.00	109.11	C
ATOM	3674	NZ	LYS	472	44.752	72.975	72.140	1.00	109.11	N
ATOM	3675	C	LYS	472	42.013	78.422	69.206	1.00	109.11	C
ATOM	3676	O	LYS	472	40.899	78.671	69.665	1.00	109.11	O
ATOM	3677	N	GLU	473	42.793	79.380	68.673	1.00	66.02	N
ATOM	3678	CA	GLU	473	42.354	80.747	68.696	1.00	66.02	C
ATOM	3679	CB	GLU	473	43.417	81.714	68.155	1.00	66.02	C
ATOM	3680	CG	GLU	473	43.144	83.173	68.520	1.00	66.02	C
ATOM	3681	CD	GLU	473	44.283	84.012	67.964	1.00	66.02	C
ATOM	3682	OE1	GLU	473	44.489	83.974	66.724	1.00	66.02	O
ATOM	3683	OE2	GLU	473	44.970	84.694	68.770	1.00	66.02	O
ATOM	3684	C	GLU	473	41.104	80.882	67.867	1.00	66.02	C
ATOM	3685	O	GLU	473	40.169	81.598	68.219	1.00	66.02	O
ATOM	3686	N	ALA	474	41.101	80.185	66.723	1.00	128.29	N
ATOM	3687	CA	ALA	474	40.098	80.032	65.701	1.00	128.29	C
ATOM	3688	CB	ALA	474	40.648	79.406	64.407	1.00	128.29	C
ATOM	3689	C	ALA	474	38.948	79.186	66.169	1.00	128.29	C
ATOM	3690	O	ALA	474	38.124	78.798	65.349	1.00	128.29	O
ATOM	3691	N	ASN	475	39.015	78.646	67.398	1.00	123.90	N
ATOM	3692	CA	ASN	475	38.011	77.782	67.976	1.00	123.90	C
ATOM	3693	CB	ASN	475	36.634	78.416	68.316	1.00	123.90	C

ATOM	3694	CG	ASN	475	35.752	78.693	67.099	1.00123.90	C
ATOM	3695	OD1	ASN	475	35.967	79.638	66.344	1.00123.90	O
ATOM	3696	ND2	ASN	475	34.686	77.865	66.931	1.00123.90	N
ATOM	3697	C	ASN	475	37.811	76.601	67.076	1.00123.90	C
ATOM	3698	O	ASN	475	36.694	76.120	66.896	1.00123.90	O
ATOM	3699	N	ALA	476	38.889	76.217	66.368	1.00 98.31	N
ATOM	3700	CA	ALA	476	39.012	75.044	65.545	1.00 98.31	C
ATOM	3701	CB	ALA	476	39.996	75.234	64.379	1.00 98.31	C
ATOM	3702	C	ALA	476	39.384	73.817	66.325	1.00 98.31	C
ATOM	3703	O	ALA	476	39.076	72.693	65.935	1.00 98.31	O
ATOM	3704	N	TYR	477	40.084	74.013	67.455	1.00101.45	N
ATOM	3705	CA	TYR	477	40.757	72.965	68.169	1.00101.45	C
ATOM	3706	CB	TYR	477	41.449	73.501	69.434	1.00101.45	C
ATOM	3707	CG	TYR	477	42.239	72.402	70.054	1.00101.45	C
ATOM	3708	CD1	TYR	477	43.344	71.895	69.408	1.00101.45	C
ATOM	3709	CD2	TYR	477	41.902	71.904	71.291	1.00101.45	C
ATOM	3710	CE1	TYR	477	44.087	70.888	69.977	1.00101.45	C
ATOM	3711	CE2	TYR	477	42.641	70.897	71.866	1.00101.45	C
ATOM	3712	CZ	TYR	477	43.734	70.387	71.207	1.00101.45	C
ATOM	3713	OH	TYR	477	44.496	69.353	71.793	1.00101.45	O
ATOM	3714	C	TYR	477	39.848	71.827	68.542	1.00101.45	C
ATOM	3715	O	TYR	477	40.281	70.678	68.493	1.00101.45	O
ATOM	3716	N	ASP	478	38.591	72.080	68.954	1.00 84.60	N
ATOM	3717	CA	ASP	478	37.770	70.984	69.402	1.00 84.60	C
ATOM	3718	CB	ASP	478	36.426	71.447	70.002	1.00 84.60	C
ATOM	3719	CG	ASP	478	35.624	72.181	68.936	1.00 84.60	C
ATOM	3720	OD1	ASP	478	35.820	73.418	68.793	1.00 84.60	O
ATOM	3721	OD2	ASP	478	34.795	71.518	68.259	1.00 84.60	O
ATOM	3722	C	ASP	478	37.475	69.957	68.335	1.00 84.60	C
ATOM	3723	O	ASP	478	37.804	68.784	68.503	1.00 84.60	O
ATOM	3724	N	PHE	479	36.891	70.361	67.189	1.00 82.19	N
ATOM	3725	CA	PHE	479	36.474	69.405	66.197	1.00 82.19	C
ATOM	3726	CB	PHE	479	35.594	69.990	65.070	1.00 82.19	C
ATOM	3727	CG	PHE	479	36.330	71.014	64.276	1.00 82.19	C
ATOM	3728	CD1	PHE	479	37.220	70.638	63.296	1.00 82.19	C
ATOM	3729	CD2	PHE	479	36.104	72.354	64.491	1.00 82.19	C
ATOM	3730	CE1	PHE	479	37.887	71.587	62.558	1.00 82.19	C
ATOM	3731	CE2	PHE	479	36.767	73.308	63.757	1.00 82.19	C
ATOM	3732	CZ	PHE	479	37.663	72.924	62.788	1.00 82.19	C
ATOM	3733	C	PHE	479	37.663	68.733	65.600	1.00 82.19	C
ATOM	3734	O	PHE	479	37.637	67.538	65.310	1.00 82.19	O
ATOM	3735	N	ILE	480	38.753	69.487	65.405	1.00106.28	N
ATOM	3736	CA	ILE	480	39.925	68.909	64.824	1.00106.28	C
ATOM	3737	CB	ILE	480	41.045	69.902	64.625	1.00106.28	C
ATOM	3738	CG1	ILE	480	41.509	70.554	65.942	1.00106.28	C
ATOM	3739	CG2	ILE	480	40.573	70.912	63.569	1.00106.28	C
ATOM	3740	CD1	ILE	480	42.438	69.694	66.792	1.00106.28	C
ATOM	3741	C	ILE	480	40.362	67.791	65.709	1.00106.28	C
ATOM	3742	O	ILE	480	40.881	66.792	65.218	1.00106.28	O
ATOM	3743	N	MET	481	40.234	67.959	67.040	1.00 88.19	N
ATOM	3744	CA	MET	481	40.606	66.925	67.966	1.00 88.19	C
ATOM	3745	CB	MET	481	40.644	67.418	69.420	1.00 88.19	C
ATOM	3746	CG	MET	481	41.804	68.376	69.694	1.00 88.19	C
ATOM	3747	SD	MET	481	43.443	67.586	69.717	1.00 88.19	S
ATOM	3748	CE	MET	481	43.541	67.228	67.941	1.00 88.19	C
ATOM	3749	C	MET	481	39.674	65.743	67.914	1.00 88.19	C
ATOM	3750	O	MET	481	40.128	64.601	67.868	1.00 88.19	O
ATOM	3751	N	LYS	482	38.344	65.986	67.916	1.00113.59	N
ATOM	3752	CA	LYS	482	37.365	64.927	67.945	1.00113.59	C
ATOM	3753	CB	LYS	482	35.921	65.454	68.071	1.00113.59	C
ATOM	3754	CG	LYS	482	34.882	64.379	68.411	1.00113.59	C
ATOM	3755	CD	LYS	482	34.727	63.290	67.346	1.00113.59	C
ATOM	3756	CE	LYS	482	33.808	62.143	67.768	1.00113.59	C
ATOM	3757	NZ	LYS	482	34.481	61.307	68.786	1.00113.59	N
ATOM	3758	C	LYS	482	37.459	64.163	66.671	1.00113.59	C
ATOM	3759	O	LYS	482	37.429	62.933	66.663	1.00113.59	O
ATOM	3760	N	LEU	483	37.606	64.899	65.557	1.00 75.08	N
ATOM	3761	CA	LEU	483	37.726	64.309	64.261	1.00 75.08	C
ATOM	3762	CB	LEU	483	38.083	65.364	63.192	1.00 75.08	C
ATOM	3763	CG	LEU	483	38.483	64.828	61.804	1.00 75.08	C
ATOM	3764	CD1	LEU	483	37.358	64.023	61.138	1.00 75.08	C
ATOM	3765	CD2	LEU	483	38.992	65.977	60.916	1.00 75.08	C
ATOM	3766	C	LEU	483	38.843	63.328	64.355	1.00 75.08	C
ATOM	3767	O	LEU	483	39.816	63.532	65.079	1.00 75.08	O

ATOM	3768	N	PRO	484	38.698	62.238	63.659	1.00	96.77	N
ATOM	3769	CA	PRO	484	39.681	61.200	63.692	1.00	96.77	C
ATOM	3770	CD	PRO	484	37.415	61.776	63.166	1.00	96.77	C
ATOM	3771	CB	PRO	484	39.045	59.999	62.985	1.00	96.77	C
ATOM	3772	CG	PRO	484	37.788	60.566	62.298	1.00	96.77	C
ATOM	3773	C	PRO	484	40.900	61.719	63.039	1.00	96.77	C
ATOM	3774	O	PRO	484	40.808	62.782	62.447	1.00	96.77	O
ATOM	3775	N	HIS	485	42.045	61.041	63.228	1.00	98.33	N
ATOM	3776	CA	HIS	485	43.312	61.301	62.603	1.00	98.33	C
ATOM	3777	ND1	HIS	485	43.577	58.929	60.281	1.00	98.33	N
ATOM	3778	CG	HIS	485	42.768	60.029	60.461	1.00	98.33	C
ATOM	3779	CB	HIS	485	43.225	61.324	61.065	1.00	98.33	C
ATOM	3780	NE2	HIS	485	41.569	58.376	59.502	1.00	98.33	N
ATOM	3781	CD2	HIS	485	41.545	59.674	59.980	1.00	98.33	C
ATOM	3782	CE1	HIS	485	42.809	57.970	59.704	1.00	98.33	C
ATOM	3783	C	HIS	485	43.924	62.610	63.014	1.00	98.33	C
ATOM	3784	O	HIS	485	45.084	62.840	62.679	1.00	98.33	O
ATOM	3785	N	LYS	486	43.227	63.471	63.787	1.00	129.62	N
ATOM	3786	CA	LYS	486	43.873	64.673	64.266	1.00	129.62	C
ATOM	3787	CB	LYS	486	45.233	64.390	64.927	1.00	129.62	C
ATOM	3788	CG	LYS	486	45.117	63.592	66.226	1.00	129.62	C
ATOM	3789	CD	LYS	486	46.399	62.848	66.603	1.00	129.62	C
ATOM	3790	CE	LYS	486	47.681	63.554	66.161	1.00	129.62	C
ATOM	3791	NZ	LYS	486	48.855	62.734	66.532	1.00	129.62	N
ATOM	3792	C	LYS	486	44.071	65.695	63.178	1.00	129.62	C
ATOM	3793	O	LYS	486	43.257	65.866	62.278	1.00	129.62	O
ATOM	3794	N	PHE	487	45.166	66.469	63.288	1.00	83.41	N
ATOM	3795	CA	PHE	487	45.518	67.507	62.356	1.00	83.41	C
ATOM	3796	CB	PHE	487	46.709	68.368	62.814	1.00	83.41	C
ATOM	3797	CG	PHE	487	46.236	69.245	63.924	1.00	83.41	C
ATOM	3798	CD1	PHE	487	45.517	70.386	63.647	1.00	83.41	C
ATOM	3799	CD2	PHE	487	46.514	68.938	65.236	1.00	83.41	C
ATOM	3800	CE1	PHE	487	45.078	71.205	64.659	1.00	83.41	C
ATOM	3801	CE2	PHE	487	46.077	69.754	66.253	1.00	83.41	C
ATOM	3802	CZ	PHE	487	45.357	70.890	65.967	1.00	83.41	C
ATOM	3803	C	PHE	487	45.866	66.901	61.042	1.00	83.41	C
ATOM	3804	O	PHE	487	45.670	67.518	59.997	1.00	83.41	O
ATOM	3805	N	ASP	488	46.429	65.683	61.095	1.00	76.15	N
ATOM	3806	CA	ASP	488	46.896	64.911	59.982	1.00	76.15	C
ATOM	3807	CB	ASP	488	47.654	63.648	60.415	1.00	76.15	C
ATOM	3808	CG	ASP	488	48.951	64.105	61.066	1.00	76.15	C
ATOM	3809	OD1	ASP	488	48.904	65.047	61.901	1.00	76.15	O
ATOM	3810	OD2	ASP	488	50.011	63.509	60.742	1.00	76.15	O
ATOM	3811	C	ASP	488	45.742	64.493	59.127	1.00	76.15	C
ATOM	3812	O	ASP	488	45.956	64.006	58.017	1.00	76.15	O
ATOM	3813	N	THR	489	44.498	64.608	59.640	1.00	81.25	N
ATOM	3814	CA	THR	489	43.345	64.193	58.888	1.00	81.25	C
ATOM	3815	CB	THR	489	42.041	64.663	59.434	1.00	81.25	C
ATOM	3816	OG1	THR	489	41.956	64.275	60.777	1.00	81.25	O
ATOM	3817	CG2	THR	489	40.879	64.009	58.665	1.00	81.25	C
ATOM	3818	C	THR	489	43.407	64.861	57.558	1.00	81.25	C
ATOM	3819	O	THR	489	44.042	65.903	57.411	1.00	81.25	O
ATOM	3820	N	LEU	490	42.744	64.237	56.563	1.00	169.98	N
ATOM	3821	CA	LEU	490	42.701	64.661	55.195	1.00	169.98	C
ATOM	3822	CB	LEU	490	42.430	63.533	54.196	1.00	169.98	C
ATOM	3823	CG	LEU	490	43.419	62.373	54.156	1.00	169.98	C
ATOM	3824	CD1	LEU	490	43.478	61.613	55.492	1.00	169.98	C
ATOM	3825	CD2	LEU	490	43.046	61.465	52.977	1.00	169.98	C
ATOM	3826	C	LEU	490	41.493	65.499	54.965	1.00	169.98	C
ATOM	3827	O	LEU	490	40.804	65.915	55.900	1.00	169.98	O
ATOM	3828	N	VAL	491	41.255	65.811	53.672	1.00	102.57	N
ATOM	3829	CA	VAL	491	40.044	66.501	53.366	1.00	102.57	C
ATOM	3830	CB	VAL	491	40.259	67.970	53.151	1.00	102.57	C
ATOM	3831	CG1	VAL	491	38.909	68.624	52.821	1.00	102.57	C
ATOM	3832	CG2	VAL	491	40.949	68.553	54.393	1.00	102.57	C
ATOM	3833	C	VAL	491	39.443	65.926	52.117	1.00	102.57	C
ATOM	3834	O	VAL	491	39.455	66.581	51.076	1.00	102.57	O
ATOM	3835	N	GLY	492	38.983	64.653	52.182	1.00	74.25	N
ATOM	3836	CA	GLY	492	38.126	63.964	51.250	1.00	74.25	C
ATOM	3837	C	GLY	492	38.080	64.563	49.874	1.00	74.25	C
ATOM	3838	O	GLY	492	36.987	64.835	49.378	1.00	74.25	O
ATOM	3839	N	GLU	493	39.227	64.748	49.197	1.00	135.37	N
ATOM	3840	CA	GLU	493	39.198	65.302	47.871	1.00	135.37	C
ATOM	3841	CB	GLU	493	38.701	64.307	46.809	1.00	135.37	C

ATOM	3842	CG	GLU	493	39.687	63.174	46.524	1.00135.37	C
ATOM	3843	CD	GLU	493	40.817	63.750	45.684	1.00135.37	C
ATOM	3844	OE1	GLU	493	40.514	64.499	44.717	1.00135.37	O
ATOM	3845	OE2	GLU	493	42.000	63.454	46.001	1.00135.37	O
ATOM	3846	C	GLU	493	38.372	66.549	47.754	1.00135.37	C
ATOM	3847	O	GLU	493	37.188	66.498	47.430	1.00135.37	O
ATOM	3848	N	ARG	494	38.987	67.698	48.100	1.00194.54	N
ATOM	3849	CA	ARG	494	38.412	69.008	47.990	1.00194.54	C
ATOM	3850	CB	ARG	494	37.305	69.180	46.923	1.00194.54	C
ATOM	3851	CG	ARG	494	37.142	70.620	46.410	1.00194.54	C
ATOM	3852	CD	ARG	494	36.030	71.444	47.070	1.00194.54	C
ATOM	3853	NE	ARG	494	36.040	72.787	46.418	1.00194.54	N
ATOM	3854	CZ	ARG	494	36.272	73.922	47.142	1.00194.54	C
ATOM	3855	NH1	ARG	494	36.449	73.851	48.494	1.00194.54	N
ATOM	3856	NH2	ARG	494	36.321	75.130	46.508	1.00194.54	N
ATOM	3857	C	ARG	494	37.877	69.309	49.325	1.00194.54	C
ATOM	3858	O	ARG	494	37.996	68.514	50.248	1.00194.54	O
ATOM	3859	N	GLY	495	37.242	70.469	49.430	1.00117.15	N
ATOM	3860	CA	GLY	495	36.686	70.993	50.631	1.00117.15	C
ATOM	3861	C	GLY	495	35.602	70.094	51.139	1.00117.15	C
ATOM	3862	O	GLY	495	35.000	70.423	52.155	1.00117.15	O
ATOM	3863	N	ALA	496	35.186	69.038	50.404	1.00130.39	N
ATOM	3864	CA	ALA	496	34.035	68.343	50.934	1.00130.39	C
ATOM	3865	CB	ALA	496	33.091	67.851	49.826	1.00130.39	C
ATOM	3866	C	ALA	496	34.325	67.148	51.807	1.00130.39	C
ATOM	3867	O	ALA	496	34.333	66.017	51.325	1.00130.39	O
ATOM	3868	N	GLN	497	34.755	67.342	53.071	1.00170.08	N
ATOM	3869	CA	GLN	497	34.679	66.301	54.062	1.00170.08	C
ATOM	3870	CB	GLN	497	36.074	65.964	54.612	1.00170.08	C
ATOM	3871	CG	GLN	497	36.179	64.592	55.277	1.00170.08	C
ATOM	3872	CD	GLN	497	37.659	64.234	55.281	1.00170.08	C
ATOM	3873	OE1	GLN	497	38.512	65.107	55.150	1.00170.08	O
ATOM	3874	NE2	GLN	497	37.980	62.920	55.418	1.00170.08	N
ATOM	3875	C	GLN	497	33.748	66.688	55.191	1.00170.08	C
ATOM	3876	O	GLN	497	33.008	65.870	55.740	1.00170.08	O
ATOM	3877	N	LEU	498	33.796	67.998	55.554	1.00197.24	N
ATOM	3878	CA	LEU	498	33.226	68.541	56.768	1.00197.24	C
ATOM	3879	CB	LEU	498	34.272	69.233	57.665	1.00197.24	C
ATOM	3880	CG	LEU	498	35.488	68.392	58.094	1.00197.24	C
ATOM	3881	CD1	LEU	498	35.095	67.255	59.046	1.00197.24	C
ATOM	3882	CD2	LEU	498	36.296	67.919	56.875	1.00197.24	C
ATOM	3883	C	LEU	498	32.267	69.655	56.473	1.00197.24	C
ATOM	3884	O	LEU	498	32.092	70.090	55.336	1.00197.24	O
ATOM	3885	N	SER	499	31.635	70.162	57.555	1.00 52.94	N
ATOM	3886	CA	SER						

ATOM	3916	O	LYS	503	37.246	76.582	57.070	1.00	96.40	O
ATOM	3917	N	GLN	504	35.051	77.085	57.132	1.00	71.93	N
ATOM	3918	CA	GLN	504	35.292	78.492	57.251	1.00	71.93	C
ATOM	3919	CB	GLN	504	34.002	79.294	57.488	1.00	71.93	C
ATOM	3920	CG	GLN	504	34.235	80.799	57.624	1.00	71.93	C
ATOM	3921	CD	GLN	504	34.857	81.294	56.326	1.00	71.93	C
ATOM	3922	OE1	GLN	504	36.070	81.218	56.140	1.00	71.93	O
ATOM	3923	NE2	GLN	504	34.006	81.813	55.400	1.00	71.93	N
ATOM	3924	C	GLN	504	36.187	78.698	58.429	1.00	71.93	C
ATOM	3925	O	GLN	504	37.122	79.498	58.373	1.00	71.93	O
ATOM	3926	N	ARG	505	35.957	77.940	59.520	1.00	139.77	N
ATOM	3927	CA	ARG	505	36.760	78.157	60.684	1.00	139.77	C
ATOM	3928	CB	ARG	505	36.383	77.291	61.899	1.00	139.77	C
ATOM	3929	CG	ARG	505	35.087	77.743	62.570	1.00	139.77	C
ATOM	3930	CD	ARG	505	34.994	77.391	64.056	1.00	139.77	C
ATOM	3931	NE	ARG	505	34.835	75.919	64.194	1.00	139.77	N
ATOM	3932	CZ	ARG	505	33.591	75.360	64.150	1.00	139.77	C
ATOM	3933	NH1	ARG	505	32.508	76.121	63.819	1.00	139.77	N
ATOM	3934	NH2	ARG	505	33.430	74.039	64.446	1.00	139.77	N
ATOM	3935	C	ARG	505	38.188	77.881	60.372	1.00	139.77	C
ATOM	3936	O	ARG	505	39.054	78.699	60.677	1.00	139.77	O
ATOM	3937	N	ILE	506	38.459	76.759	59.682	1.00	63.51	N
ATOM	3938	CA	ILE	506	39.814	76.371	59.409	1.00	63.51	C
ATOM	3939	CB	ILE	506	39.898	75.145	58.545	1.00	63.51	C
ATOM	3940	CG1	ILE	506	39.265	73.939	59.265	1.00	63.51	C
ATOM	3941	CG2	ILE	506	41.371	74.935	58.155	1.00	63.51	C
ATOM	3942	CD1	ILE	506	39.028	72.729	58.360	1.00	63.51	C
ATOM	3943	C	ILE	506	40.455	77.501	58.674	1.00	63.51	C
ATOM	3944	O	ILE	506	41.590	77.877	58.966	1.00	63.51	O
ATOM	3945	N	ALA	507	39.705	78.117	57.744	1.00	63.38	N
ATOM	3946	CA	ALA	507	40.263	79.177	56.960	1.00	63.38	C
ATOM	3947	CB	ALA	507	39.251	79.783	55.974	1.00	63.38	C
ATOM	3948	C	ALA	507	40.705	80.273	57.867	1.00	63.38	C
ATOM	3949	O	ALA	507	41.829	80.759	57.760	1.00	63.38	O
ATOM	3950	N	ILE	508	39.854	80.624	58.844	1.00	109.72	N
ATOM	3951	CA	ILE	508	40.135	81.708	59.735	1.00	109.72	C
ATOM	3952	CB	ILE	508	39.119	81.820	60.833	1.00	109.72	C
ATOM	3953	CG1	ILE	508	37.716	82.080	60.257	1.00	109.72	C
ATOM	3954	CG2	ILE	508	39.606	82.902	61.811	1.00	109.72	C
ATOM	3955	CD1	ILE	508	37.602	83.387	59.477	1.00	109.72	C
ATOM	3956	C	ILE	508	41.440	81.409	60.384	1.00	109.72	C
ATOM	3957	O	ILE	508	42.251	82.305	60.599	1.00	109.72	O
ATOM	3958	N	ALA	509	41.671	80.131	60.725	1.00	46.82	N
ATOM	3959	CA	ALA	509	42.924	79.774	61.321	1.00	46.82	C
ATOM	3960	CB	ALA	509	43.013	78.274	61.661	1.00	46.82	C
ATOM	3961	C	ALA	509	44.017	80.076	60.340	1.00	46.82	C
ATOM	3962	O	ALA	509	45.027	80.686	60.686	1.00	46.82	O
ATOM	3963	N	ARG	510	43.820	79.703	59.063	1.00	144.87	N
ATOM	3964	CA	ARG	510	44.849	79.891	58.075	1.00	144.87	C
ATOM	3965	CB	ARG	510	44.361	79.510	56.668	1.00	144.87	C
ATOM	3966	CG	ARG	510	45.408	79.688	55.568	1.00	144.87	C
ATOM	3967	CD	ARG	510	44.813	79.587	54.162	1.00	144.87	C
ATOM	3968	NE	ARG	510	44.193	78.238	54.041	1.00	144.87	N
ATOM	3969	CZ	ARG	510	43.036	78.071	53.336	1.00	144.87	C
ATOM	3970	NH1	ARG	510	42.432	79.138	52.736	1.00	144.87	N
ATOM	3971	NH2	ARG	510	42.481	76.828	53.234	1.00	144.87	N
ATOM	3972	C	ARG	510	45.218	81.338	58.033	1.00	144.87	C
ATOM	3973	O	ARG	510	46.373	81.708	58.230	1.00	144.87	O
ATOM	3974	N	ALA	511	44.213	82.206	57.857	1.00	54.95	N
ATOM	3975	CA	ALA	511	44.442	83.618	57.796	1.00	54.95	C
ATOM	3976	CB	ALA	511	43.148	84.427	57.595	1.00	54.95	C
ATOM	3977	C	ALA	511	45.026	84.026	59.105	1.00	54.95	C
ATOM	3978	O	ALA	511	45.835	84.949	59.182	1.00	54.95	O
ATOM	3979	N	LEU	512	44.614	83.334	60.178	1.00	128.71	N
ATOM	3980	CA	LEU	512	45.015	83.686	61.506	1.00	128.71	C
ATOM	3981	CB	LEU	512	44.389	82.749	62.556	1.00	128.71	C
ATOM	3982	CG	LEU	512	44.501	83.262	64.003	1.00	128.71	C
ATOM	3983	CD1	LEU	512	45.954	83.325	64.496	1.00	128.71	C
ATOM	3984	CD2	LEU	512	43.759	84.599	64.152	1.00	128.71	C
ATOM	3985	C	LEU	512	46.514	83.593	61.614	1.00	128.71	C
ATOM	3986	O	LEU	512	47.138	84.429	62.266	1.00	128.71	O
ATOM	3987	N	VAL	513	47.127	82.559	61.000	1.00	67.07	N
ATOM	3988	CA	VAL	513	48.553	82.364	61.015	1.00	67.07	C
ATOM	3989	CB	VAL	513	48.960	81.055	60.407	1.00	67.07	C

ATOM	3990	CG1	VAL	513	50.494	80.952	60.425	1.00	67.07	C
ATOM	3991	CG2	VAL	513	48.246	79.928	61.175	1.00	67.07	C
ATOM	3992	C	VAL	513	49.199	83.460	60.233	1.00	67.07	C
ATOM	3993	O	VAL	513	50.313	83.886	60.536	1.00	67.07	O
ATOM	3994	N	ARG	514	48.511	83.930	59.181	1.00	191.74	N
ATOM	3995	CA	ARG	514	49.003	85.016	58.382	1.00	191.74	C
ATOM	3996	CB	ARG	514	48.015	85.452	57.282	1.00	191.74	C
ATOM	3997	CG	ARG	514	47.805	84.424	56.165	1.00	191.74	C
ATOM	3998	CD	ARG	514	48.419	84.820	54.816	1.00	191.74	C
ATOM	3999	NE	ARG	514	49.816	84.308	54.768	1.00	191.74	N
ATOM	4000	CZ	ARG	514	50.489	84.282	53.580	1.00	191.74	C
ATOM	4001	NH1	ARG	514	49.888	84.740	52.444	1.00	191.74	N
ATOM	4002	NH2	ARG	514	51.765	83.802	53.532	1.00	191.74	N
ATOM	4003	C	ARG	514	49.185	86.197	59.307	1.00	191.74	C
ATOM	4004	O	ARG	514	50.125	86.973	59.146	1.00	191.74	O
ATOM	4005	N	ASN	515	48.275	86.352	60.296	1.00	108.37	N
ATOM	4006	CA	ASN	515	48.250	87.376	61.328	1.00	108.37	C
ATOM	4007	CB	ASN	515	49.123	87.076	62.569	1.00	108.37	C
ATOM	4008	CG	ASN	515	50.608	87.085	62.223	1.00	108.37	C
ATOM	4009	OD1	ASN	515	51.079	86.303	61.400	1.00	108.37	O
ATOM	4010	ND2	ASN	515	51.371	88.002	62.879	1.00	108.37	N
ATOM	4011	C	ASN	515	48.526	88.781	60.844	1.00	108.37	C
ATOM	4012	O	ASN	515	49.599	89.345	61.052	1.00	108.37	O
ATOM	4013	N	PRO	516	47.541	89.337	60.190	1.00	138.09	N
ATOM	4014	CA	PRO	516	47.540	90.667	59.613	1.00	138.09	C
ATOM	4015	CD	PRO	516	46.442	88.529	59.697	1.00	138.09	C
ATOM	4016	CB	PRO	516	46.511	90.621	58.503	1.00	138.09	C
ATOM	4017	CG	PRO	516	45.539	89.520	58.955	1.00	138.09	C
ATOM	4018	C	PRO	516	47.160	91.763	60.566	1.00	138.09	C
ATOM	4019	O	PRO	516	46.967	91.521	61.753	1.00	138.09	O
ATOM	4020	N	LYS	517	47.250	93.012	60.077	1.00	187.43	N
ATOM	4021	CA	LYS	517	46.784	94.231	60.679	1.00	187.43	C
ATOM	4022	CB	LYS	517	47.813	95.356	60.552	1.00	187.43	C
ATOM	4023	CG	LYS	517	48.887	95.143	61.619	1.00	187.43	C
ATOM	4024	CD	LYS	517	49.538	93.757	61.546	1.00	187.43	C
ATOM	4025	CE	LYS	517	50.372	93.396	62.777	1.00	187.43	C
ATOM	4026	NZ	LYS	517	51.155	92.170	62.511	1.00	187.43	N
ATOM	4027	C	LYS	517	45.432	94.643	60.190	1.00	187.43	C
ATOM	4028	O	LYS	517	44.770	95.476	60.808	1.00	187.43	O
ATOM	4029	N	ILE	518	45.035	94.158	58.997	1.00	82.63	N
ATOM	4030	CA	ILE	518	43.767	94.532	58.449	1.00	82.63	C
ATOM	4031	CB	ILE	518	43.885	95.388	57.223	1.00	82.63	C
ATOM	4032	CG1	ILE	518	44.688	96.653	57.571	1.00	82.63	C
ATOM	4033	CG2	ILE	518	42.473	95.708	56.706	1.00	82.63	C
ATOM	4034	CD1	ILE	518	45.091	97.484	56.358	1.00	82.63	C
ATOM	4035	C	ILE	518	43.063	93.260	58.112	1.00	82.63	C
ATOM	4036	O	ILE	518	43.692	92.276	57.725	1.00	82.63	O
ATOM	4037	N	LEU	519	41.729	93.230	58.299	1.00	127.62	N
ATOM	4038	CA	LEU	519	41.034	92.002	58.051	1.00	127.62	C
ATOM	4039	CB	LEU	519	40.621	91.310	59.367	1.00	127.62	C
ATOM	4040	CG	LEU	519	40.127	89.854	59.262	1.00	127.62	C
ATOM	4041	CD1	LEU	519	39.750	89.309	60.646	1.00	127.62	C
ATOM	4042	CD2	LEU	519	38.992	89.682	58.245	1.00	127.62	C
ATOM	4043	C	LEU	519	39.809	92.328	57.251	1.00	127.62	C
ATOM	4044	O	LEU	519	39.001	93.165	57.651	1.00	127.62	O
ATOM	4045	N	LEU	520	39.642	91.670	56.087	1.00	108.86	N
ATOM	4046	CA	LEU	520	38.488	91.914	55.272	1.00	108.86	C
ATOM	4047	CB	LEU	520	38.833	92.196	53.799	1.00	108.86	C
ATOM	4048	CG	LEU	520	39.653	93.481	53.575	1.00	108.86	C
ATOM	4049	CD1	LEU	520	40.995	93.428	54.322	1.00	108.86	C
ATOM	4050	CD2	LEU	520	39.829	93.763	52.073	1.00	108.86	C
ATOM	4051	C	LEU	520	37.648	90.678	55.282	1.00	108.86	C
ATOM	4052	O	LEU	520	38.144	89.570	55.084	1.00	108.86	O
ATOM	4053	N	LEU	521	36.337	90.831	55.534	1.00	127.40	N
ATOM	4054	CA	LEU	521	35.494	89.671	55.509	1.00	127.40	C
ATOM	4055	CB	LEU	521	34.676	89.469	56.796	1.00	127.40	C
ATOM	4056	CG	LEU	521	35.548	89.335	58.058	1.00	127.40	C
ATOM	4057	CD1	LEU	521	36.223	90.669	58.411	1.00	127.40	C
ATOM	4058	CD2	LEU	521	34.755	88.735	59.230	1.00	127.40	C
ATOM	4059	C	LEU	521	34.515	89.891	54.395	1.00	127.40	C
ATOM	4060	O	LEU	521	33.661	90.772	54.472	1.00	127.40	O
ATOM	4061	N	ASP	522	34.606	89.090	53.316	1.00	120.16	N
ATOM	4062	CA	ASP	522	33.701	89.282	52.223	1.00	120.16	C
ATOM	4063	CB	ASP	522	34.356	88.989	50.858	1.00	120.16	C

ATOM	4064	CG	ASP	522	33.508	89.591	49.745	1.00120.16
ATOM	4065	OD1	ASP	522	32.409	90.124	50.052	1.00120.16
ATOM	4066	OD2	ASP	522	33.959	89.535	48.569	1.00120.16
ATOM	4067	C	ASP	522	32.559	88.331	52.410	1.00120.16
ATOM	4068	O	ASP	522	32.498	87.271	51.789	1.00120.16
ATOM	4069	N	GLU	523	31.608	88.711	53.281	1.00148.71
ATOM	4070	CA	GLU	523	30.425	87.930	53.526	1.00148.71
ATOM	4071	CB	GLU	523	29.653	87.676	52.224	1.00148.71
ATOM	4072	CG	GLU	523	29.202	88.967	51.539	1.00148.71
ATOM	4073	CD	GLU	523	28.803	88.618	50.114	1.00148.71
ATOM	4074	OE1	GLU	523	28.335	87.469	49.900	1.00148.71
ATOM	4075	OE2	GLU	523	28.966	89.492	49.221	1.00148.71
ATOM	4076	C	GLU	523	30.779	86.586	54.103	1.00148.71
ATOM	4077	O	GLU	523	29.957	85.669	54.047	1.00148.71
ATOM	4078	N	ALA	524	31.922	86.487	54.821	1.00124.82
ATOM	4079	CA	ALA	524	32.476	85.204	55.165	1.00124.82
ATOM	4080	CB	ALA	524	33.673	85.333	56.122	1.00124.82
ATOM	4081	C	ALA	524	31.475	84.284	55.825	1.00124.82
ATOM	4082	O	ALA	524	31.114	83.280	55.224	1.00124.82
ATOM	4083	N	THR	525	30.847	84.655	56.952	1.00125.39
ATOM	4084	CA	THR	525	29.976	83.743	57.656	1.00125.39
ATOM	4085	CB	THR	525	29.294	84.387	58.815	1.00125.39
ATOM	4086	OG1	THR	525	30.235	84.795	59.792	1.00125.39
ATOM	4087	CG2	THR	525	28.308	83.375	59.395	1.00125.39
ATOM	4088	C	THR	525	28.860	83.250	56.777	1.00125.39
ATOM	4089	O	THR	525	28.402	82.123	56.952	1.00125.39
ATOM	4090	N	SER	526	28.404	84.075	55.817	1.00102.47
ATOM	4091	CA	SER	526	27.255	83.827	54.975	1.00102.47
ATOM	4092	CB	SER	526	27.139	84.814	53.799	1.00102.47
ATOM	4093	OG	SER	526	26.943	86.136	54.280	1.00102.47
ATOM	4094	C	SER	526	27.211	82.450	54.393	1.00102.47
ATOM	4095	O	SER	526	28.152	81.664	54.478	1.00102.47
ATOM	4096	N	ALA	527	26.033	82.125	53.814	1.00 57.30
ATOM	4097	CA	ALA	527	25.781	80.856	53.197	1.00 57.30
ATOM	4098	CB	ALA	527	26.581	80.641	51.901	1.00 57.30
ATOM	4099	C	ALA	527	26.159	79.796	54.173	1.00 57.30
ATOM	4100	O	ALA	527	26.877	78.859	53.829	1.00 57.30
ATOM	4101	N	LEU	528	25.699	79.941	55.432	1.00 74.17
ATOM	4102	CA	LEU	528	26.004	78.971	56.445	1.00 74.17
ATOM	4103	CB	LEU	528	27.271	79.361	57.227	1.00 74.17
ATOM	4104	CG	LEU	528	27.741	78.339	58.274	1.00 74.17
ATOM	4105	CD1	LEU	528	28.130	77.000	57.627	1.00 74.17
ATOM	4106	CD2	LEU	528	28.867	78.931	59.139	1.00 74.17
ATOM	4107	C	LEU	528	24.825	78.937	57.386	1.00 74.17
ATOM	4108	O	LEU	528	23.982	79.830	57.373	1.00 74.17
ATOM	4109	N	ASP	529	24.735	77.894	58.235	1.00135.97
ATOM	4110	CA	ASP	529	23.645	77.713	59.162	1.00135.97
ATOM	4111	CB	ASP	529	23.803	76.370	59.903	1.00135.97
ATOM	4112	CG	ASP	529	22.670	76.150	60.882	1.00135.97
ATOM	4113	OD1	ASP	529	22.652	76.838	61.934	1.00135.97
ATOM	4114	OD2	ASP	529	21.806	75.282	60.594	1.00135.97
ATOM	4115	C	ASP	529	23.660	78.856	60.157	1.00135.97
ATOM	4116	O	ASP	529	24.715	79.426	60.422	1.00135.97
ATOM	4117	N	THR	530	22.481	79.238	60.720	1.00 85.80
ATOM	4118	CA	THR	530	22.359	80.352	61.646	1.00 85.80
ATOM	4119	CB	THR	530	20.953	80.556	62.123	1.00 85.80
ATOM	4120	OG1	THR	530	20.506	79.406	62.826	1.00 85.80
ATOM	4121	CG2	THR	530	20.051	80.817	60.904	1.00 85.80
ATOM	4122	C	THR	530	23.216	80.078	62.847	1.00 85.80
ATOM	4123	O	THR	530	24.081	80.880	63.186	1.00 85.80
ATOM	4124	N	GLU	531	23.058	78.899	63.480	1.00 88.39
ATOM	4125	CA	GLU	531	23.760	78.611	64.703	1.00 88.39
ATOM	4126	CB	GLU	531	23.430	77.221	65.276	1.00 88.39
ATOM	4127	CG	GLU	531	24.095	76.929	66.626	1.00 88.39
ATOM	4128	CD	GLU	531	25.515	76.437	66.374	1.00 88.39
ATOM	4129	OE1	GLU	531	25.819	76.091	65.201	1.00 88.39
ATOM	4130	OE2	GLU	531	26.313	76.398	67.349	1.00 88.39
ATOM	4131	C	GLU	531	25.234	78.666	64.465	1.00 88.39
ATOM	4132	O	GLU	531	25.968	79.284	65.236	1.00 88.39
ATOM	4133	N	SER	532	25.707	78.033	63.378	1.00 73.89
ATOM	4134	CA	SER	532	27.111	78.004	63.085	1.00 73.89
ATOM	4135	CB	SER	532	27.392	77.180	61.821	1.00 73.89
ATOM	4136	OG	SER	532	26.630	77.692	60.740	1.00 73.89
ATOM	4137	C	SER	532	27.546	79.409	62.856	1.00 73.89

ATOM	4138	O	SER	532	28.567	79.828	63.400	1.00	73.89	O
ATOM	4139	N	GLU	533	26.721	80.195	62.127	1.00	117.99	N
ATOM	4140	CA	GLU	533	27.071	81.547	61.797	1.00	117.99	C
ATOM	4141	CB	GLU	533	25.950	82.366	61.138	1.00	117.99	C
ATOM	4142	CG	GLU	533	25.685	82.042	59.670	1.00	117.99	C
ATOM	4143	CD	GLU	533	24.824	83.175	59.127	1.00	117.99	C
ATOM	4144	OE1	GLU	533	23.802	83.513	59.782	1.00	117.99	O
ATOM	4145	OE2	GLU	533	25.190	83.732	58.059	1.00	117.99	O
ATOM	4146	C	GLU	533	27.372	82.242	63.076	1.00	117.99	C
ATOM	4147	O	GLU	533	28.217	83.134	63.122	1.00	117.99	O
ATOM	4148	N	ALA	534	26.665	81.863	64.152	1.00	60.21	N
ATOM	4149	CA	ALA	534	26.967	82.480	65.406	1.00	60.21	C
ATOM	4150	CB	ALA	534	26.038	82.004	66.533	1.00	60.21	C
ATOM	4151	C	ALA	534	28.370	82.127	65.807	1.00	60.21	C
ATOM	4152	O	ALA	534	29.197	83.010	66.024	1.00	60.21	O
ATOM	4153	N	VAL	535	28.704	80.821	65.817	1.00	52.92	N
ATOM	4154	CA	VAL	535	29.991	80.368	66.274	1.00	52.92	C
ATOM	4155	CB	VAL	535	30.125	78.874	66.193	1.00	52.92	C
ATOM	4156	CG1	VAL	535	31.523	78.471	66.692	1.00	52.92	C
ATOM	4157	CG2	VAL	535	28.967	78.238	66.981	1.00	52.92	C
ATOM	4158	C	VAL	535	31.049	80.969	65.405	1.00	52.92	C
ATOM	4159	O	VAL	535	32.082	81.419	65.899	1.00	52.92	O
ATOM	4160	N	VAL	536	30.811	80.987	64.079	1.00	60.00	N
ATOM	4161	CA	VAL	536	31.767	81.492	63.131	1.00	60.00	C
ATOM	4162	CB	VAL	536	31.318	81.334	61.707	1.00	60.00	C
ATOM	4163	CG1	VAL	536	32.351	82.012	60.792	1.00	60.00	C
ATOM	4164	CG2	VAL	536	31.120	79.838	61.416	1.00	60.00	C
ATOM	4165	C	VAL	536	31.988	82.952	63.365	1.00	60.00	C
ATOM	4166	O	VAL	536	33.125	83.412	63.433	1.00	60.00	O
ATOM	4167	N	GLN	537	30.901	83.725	63.525	1.00	156.56	N
ATOM	4168	CA	GLN	537	31.064	85.130	63.743	1.00	156.56	C
ATOM	4169	CB	GLN	537	29.734	85.871	63.966	1.00	156.56	C
ATOM	4170	CG	GLN	537	28.919	86.096	62.695	1.00	156.56	C
ATOM	4171	CD	GLN	537	29.511	87.302	61.978	1.00	156.56	C
ATOM	4172	OE1	GLN	537	29.017	87.724	60.934	1.00	156.56	O
ATOM	4173	NE2	GLN	537	30.596	87.881	62.560	1.00	156.56	N
ATOM	4174	C	GLN	537	31.844	85.277	65.010	1.00	156.56	C
ATOM	4175	O	GLN	537	32.650	86.196	65.141	1.00	156.56	O
ATOM	4176	N	VAL	538	31.614	84.372	65.982	1.00	49.57	N
ATOM	4177	CA	VAL	538	32.267	84.435	67.259	1.00	49.57	C
ATOM	4178	CB	VAL	538	31.883	83.306	68.169	1.00	49.57	C
ATOM	4179	CG1	VAL	538	32.766	83.372	69.426	1.00	49.57	C
ATOM	4180	CG2	VAL	538	30.378	83.407	68.468	1.00	49.57	C
ATOM	4181	C	VAL	538	33.756	84.365	67.090	1.00	49.57	C
ATOM	4182	O	VAL	538	34.483	85.151	67.693	1.00	49.57	O
ATOM	4183	N	ALA	539	34.252	83.412	66.279	1.00	41.74	N
ATOM	4184	CA	ALA	539	35.664	83.269	66.047	1.00	41.74	C
ATOM	4185	CB	ALA	539	36.005	82.090	65.119	1.00	41.74	C
ATOM	4186	C	ALA	539	36.139	84.500	65.359	1.00	41.74	C
ATOM	4187	O	ALA	539	37.221	85.007	65.648	1.00	41.74	O
ATOM	4188	N	LEU	540	35.328	85.013	64.417	1.00	66.60	N
ATOM	4189	CA	LEU	540	35.718	86.171	63.680	1.00	66.60	C
ATOM	4190	CB	LEU	540	34.654	86.615	62.665	1.00	66.60	C
ATOM	4191	CG	LEU	540	34.433	85.595	61.530	1.00	66.60	C
ATOM	4192	CD1	LEU	540	33.360	86.082	60.541	1.00	66.60	C
ATOM	4193	CD2	LEU	540	35.756	85.247	60.832	1.00	66.60	C
ATOM	4194	C	LEU	540	35.891	87.272	64.669	1.00	66.60	C
ATOM	4195	O	LEU	540	36.902	87.969	64.651	1.00	66.60	O
ATOM	4196	N	ASP	541	34.929	87.409	65.601	1.00	66.73	N
ATOM	4197	CA	ASP	541	34.935	88.477	66.557	1.00	66.73	C
ATOM	4198	CB	ASP	541	33.735	88.405	67.518	1.00	66.73	C
ATOM	4199	CG	ASP	541	32.454	88.619	66.720	1.00	66.73	C
ATOM	4200	OD1	ASP	541	32.539	88.712	65.467	1.00	66.73	O
ATOM	4201	OD2	ASP	541	31.369	88.691	67.356	1.00	66.73	O
ATOM	4202	C	ASP	541	36.182	88.394	67.386	1.00	66.73	C
ATOM	4203	O	ASP	541	36.880	89.389	67.575	1.00	66.73	O
ATOM	4204	N	LYS	542	36.537	87.192	67.869	1.00	95.06	N
ATOM	4205	CA	LYS	542	37.695	87.077	68.701	1.00	95.06	C
ATOM	4206	CB	LYS	542	37.969	85.642	69.185	1.00	95.06	C
ATOM	4207	CG	LYS	542	36.917	85.111	70.160	1.00	95.06	C
ATOM	4208	CD	LYS	542	37.168	83.667	70.600	1.00	95.06	C
ATOM	4209	CE	LYS	542	37.135	82.657	69.454	1.00	95.06	C
ATOM	4210	NZ	LYS	542	37.500	81.314	69.958	1.00	95.06	N
ATOM	4211	C	LYS	542	38.875	87.522	67.900	1.00	95.06	C

ATOM	4212	O	LYS	542	39.864	87.986	68.457	1.00	95.06	O
ATOM	4213	N	ALA	543	38.847	87.280	66.577	1.00	75.80	N
ATOM	4214	CA	ALA	543	39.940	87.642	65.716	1.00	75.80	C
ATOM	4215	CB	ALA	543	39.873	86.925	64.358	1.00	75.80	C
ATOM	4216	C	ALA	543	40.087	89.114	65.416	1.00	75.80	C
ATOM	4217	O	ALA	543	41.178	89.664	65.555	1.00	75.80	O
ATOM	4218	N	ARG	544	38.976	89.773	65.016	1.00	118.16	N
ATOM	4219	CA	ARG	544	38.945	91.082	64.405	1.00	118.16	C
ATOM	4220	CB	ARG	544	37.558	91.445	63.848	1.00	118.16	C
ATOM	4221	CG	ARG	544	37.018	90.478	62.795	1.00	118.16	C
ATOM	4222	CD	ARG	544	35.821	91.045	62.030	1.00	118.16	C
ATOM	4223	NE	ARG	544	34.822	91.505	63.035	1.00	118.16	N
ATOM	4224	CZ	ARG	544	33.843	90.663	63.476	1.00	118.16	C
ATOM	4225	NH1	ARG	544	33.783	89.382	63.009	1.00	118.16	N
ATOM	4226	NH2	ARG	544	32.920	91.109	64.377	1.00	118.16	N
ATOM	4227	C	ARG	544	39.334	92.263	65.223	1.00	118.16	C
ATOM	4228	O	ARG	544	40.119	93.046	64.722	1.00	118.16	O
ATOM	4229	N	LYS	545	38.869	92.445	66.472	1.00	155.09	N
ATOM	4230	CA	LYS	545	39.038	93.717	67.140	1.00	155.09	C
ATOM	4231	CB	LYS	545	38.500	93.697	68.583	1.00	155.09	C
ATOM	4232	CG	LYS	545	36.992	93.451	68.674	1.00	155.09	C
ATOM	4233	CD	LYS	545	36.576	92.038	68.259	1.00	155.09	C
ATOM	4234	CE	LYS	545	35.069	91.787	68.353	1.00	155.09	C
ATOM	4235	NZ	LYS	545	34.650	91.766	69.774	1.00	155.09	N
ATOM	4236	C	LYS	545	40.481	94.110	67.214	1.00	155.09	C
ATOM	4237	O	LYS	545	40.818	95.274	67.000	1.00	155.09	O
ATOM	4238	N	GLY	546	41.376	93.141	67.464	1.00	43.99	N
ATOM	4239	CA	GLY	546	42.772	93.430	67.597	1.00	43.99	C
ATOM	4240	C	GLY	546	43.205	94.110	66.334	1.00	43.99	C
ATOM	4241	O	GLY	546	44.110	94.942	66.345	1.00	43.99	O
ATOM	4242	N	ARG	547	42.565	93.752	65.207	1.00	128.17	N
ATOM	4243	CA	ARG	547	42.909	94.265	63.910	1.00	128.17	C
ATOM	4244	CB	ARG	547	43.068	93.142	62.873	1.00	128.17	C
ATOM	4245	CG	ARG	547	44.302	92.274	63.116	1.00	128.17	C
ATOM	4246	CD	ARG	547	44.338	90.986	62.290	1.00	128.17	C
ATOM	4247	NE	ARG	547	43.566	89.944	63.020	1.00	128.17	N
ATOM	4248	CZ	ARG	547	44.161	89.273	64.049	1.00	128.17	C
ATOM	4249	NH1	ARG	547	45.408	89.639	64.464	1.00	128.17	N
ATOM	4250	NH2	ARG	547	43.514	88.243	64.667	1.00	128.17	N
ATOM	4251	C	ARG	547	41.873	95.233	63.365	1.00	128.17	C
ATOM	4252	O	ARG	547	40.685	95.198	63.663	1.00	128.17	O
ATOM	4253	N	THR	548	42.295	96.193	62.532	1.00	144.12	N
ATOM	4254	CA	THR	548	41.291	97.040	61.945	1.00	144.12	C
ATOM	4255	CB	THR	548	41.873	98.281	61.329	1.00	144.12	C
ATOM	4256	OG1	THR	548	40.851	99.089	60.765	1.00	144.12	O
ATOM	4257	CG2	THR	548	42.899	97.877	60.258	1.00	144.12	C
ATOM	4258	C	THR	548	40.630	96.232	60.862	1.00	144.12	C
ATOM	4259	O	THR	548	41.334	95.633	60.047	1.00	144.12	O
ATOM	4260	N	THR	549	39.270	96.172	60.809	1.00	180.74	N
ATOM	4261	CA	THR	549	38.726	95.302	59.792	1.00	180.74	C
ATOM	4262	CB	THR	549	38.184	93.985	60.281	1.00	180.74	C
ATOM	4263	OG1	THR	549	36.940	94.181	60.931	1.00	180.74	O
ATOM	4264	CG2	THR	549	39.179	93.345	61.259	1.00	180.74	C
ATOM	4265	C	THR	549	37.564	95.884	59.038	1.00	180.74	C
ATOM	4266	O	THR	549	36.608	96.420	59.597	1.00	180.74	O
ATOM	4267	N	ILE	550	37.587	95.690	57.707	1.00	126.26	N
ATOM	4268	CA	ILE	550	36.507	96.150	56.886	1.00	126.26	C
ATOM	4269	CB	ILE	550	37.005	96.896	55.670	1.00	126.26	C
ATOM	4270	CG1	ILE	550	35.872	97.647	54.957	1.00	126.26	C
ATOM	4271	CG2	ILE	550	37.781	95.918	54.771	1.00	126.26	C
ATOM	4272	CD1	ILE	550	34.837	96.729	54.315	1.00	126.26	C
ATOM	4273	C	ILE	550	35.702	94.936	56.490	1.00	126.26	C
ATOM	4274	O	ILE	550	36.226	93.982	55.917	1.00	126.26	O
ATOM	4275	N	VAL	551	34.389	94.918	56.820	1.00	117.99	N
ATOM	4276	CA	VAL	551	33.593	93.763	56.486	1.00	117.99	C
ATOM	4277	CB	VAL	551	33.028	93.051	57.681	1.00	117.99	C
ATOM	4278	CG1	VAL	551	32.057	93.996	58.406	1.00	117.99	C
ATOM	4279	CG2	VAL	551	32.358	91.755	57.195	1.00	117.99	C
ATOM	4280	C	VAL	551	32.426	94.169	55.633	1.00	117.99	C
ATOM	4281	O	VAL	551	31.737	95.149	55.912	1.00	117.99	O
ATOM	4282	N	ILE	552	32.174	93.395	54.555	1.00	133.23	N
ATOM	4283	CA	ILE	552	31.071	93.650	53.666	1.00	133.23	C
ATOM	4284	CB	ILE	552	31.514	93.853	52.237	1.00	133.23	C
ATOM	4285	CG1	ILE	552	30.362	94.321	51.327	1.00	133.23	C

ATOM	4286	CG2	ILE	552	32.205	92.564	51.764	1.00133.23	C
ATOM	4287	CD1	ILE	552	29.275	93.275	51.078	1.00133.23	C
ATOM	4288	C	ILE	552	30.190	92.450	53.752	1.00133.23	C
ATOM	4289	O	ILE	552	30.661	91.320	53.660	1.00133.23	O
ATOM	4290	N	ALA	553	28.873	92.636	53.962	1.00103.66	N
ATOM	4291	CA	ALA	553	28.138	91.416	54.072	1.00103.66	C
ATOM	4292	CB	ALA	553	28.424	90.657	55.378	1.00103.66	C
ATOM	4293	C	ALA	553	26.665	91.643	54.019	1.00103.66	C
ATOM	4294	O	ALA	553	26.160	92.766	54.042	1.00103.66	O
ATOM	4295	N	HIS	554	25.962	90.519	53.806	1.00154.37	N
ATOM	4296	CA	HIS	554	24.543	90.422	53.782	1.00154.37	C
ATOM	4297	ND1	HIS	554	23.734	90.467	50.681	1.00154.37	N
ATOM	4298	CG	HIS	554	24.360	89.516	51.454	1.00154.37	C
ATOM	4299	CB	HIS	554	24.038	89.275	52.897	1.00154.37	C
ATOM	4300	NE2	HIS	554	25.239	89.478	49.378	1.00154.37	N
ATOM	4301	CD2	HIS	554	25.275	88.921	50.643	1.00154.37	C
ATOM	4302	CE1	HIS	554	24.298	90.402	49.449	1.00154.37	C
ATOM	4303	C	HIS	554	23.897	90.286	55.143	1.00154.37	C
ATOM	4304	O	HIS	554	22.771	90.739	55.322	1.00154.37	O
ATOM	4305	N	ARG	555	24.550	89.658	56.146	1.00215.39	N
ATOM	4306	CA	ARG	555	23.834	89.347	57.359	1.00215.39	C
ATOM	4307	CB	ARG	555	24.589	88.390	58.299	1.00215.39	C
ATOM	4308	CG	ARG	555	24.844	86.991	57.729	1.00215.39	C
ATOM	4309	CD	ARG	555	23.621	86.352	57.071	1.00215.39	C
ATOM	4310	NE	ARG	555	23.867	86.348	55.601	1.00215.39	N
ATOM	4311	CZ	ARG	555	22.883	86.718	54.731	1.00215.39	C
ATOM	4312	NH1	ARG	555	21.692	87.188	55.203	1.00215.39	N
ATOM	4313	NH2	ARG	555	23.091	86.614	53.386	1.00215.39	N
ATOM	4314	C	ARG	555	23.598	90.589	58.114	1.00215.39	C
ATOM	4315	O	ARG	555	24.391	90.988	58.962	1.00215.39	O
ATOM	4316	N	LEU	556	22.422	91.179	57.882	1.00159.50	N
ATOM	4317	CA	LEU	556	22.101	92.391	58.555	1.00159.50	C
ATOM	4318	CB	LEU	556	20.710	92.962	58.229	1.00159.50	C
ATOM	4319	CG	LEU	556	20.618	93.611	56.837	1.00159.50	C
ATOM	4320	CD1	LEU	556	21.584	94.798	56.720	1.00159.50	C
ATOM	4321	CD2	LEU	556	20.794	92.590	55.711	1.00159.50	C
ATOM	4322	C	LEU	556	22.142	92.097	60.008	1.00159.50	C
ATOM	4323	O	LEU	556	22.481	92.962	60.808	1.00159.50	O
ATOM	4324	N	SER	557	21.822	90.850	60.389	1.00 80.33	N
ATOM	4325	CA	SER	557	21.856	90.544	61.793	1.00 80.33	C
ATOM	4326	CB	SER	557	21.513	89.073	62.095	1.00 80.33	C
ATOM	4327	OG	SER	557	22.523	88.212	61.589	1.00 80.33	O
ATOM	4328	C	SER	557	23.239	90.810	62.349	1.00 80.33	C
ATOM	4329	O	SER	557	23.374	91.436	63.398	1.00 80.33	O
ATOM	4330	N	THR	558	24.298	90.324	61.665	1.00113.72	N
ATOM	4331	CA	THR	558	25.689	90.434	62.052	1.00113.72	C
ATOM	4332	CB	THR	558	26.576	89.439	61.357	1.00113.72	C
ATOM	4333	OG1	THR	558	26.605	89.686	59.959	1.00113.72	O
ATOM	4334	CG2	THR	558	26.029	88.027	61.632	1.00113.72	C
ATOM	4335	C	THR	558	26.230	91.790	61.764	1.00113.72	C
ATOM	4336	O	THR	558	27.352	92.117	62.148	1.00113.72	O
ATOM	4337	N	VAL	559	25.505	92.551	60.938	1.00 95.25	N
ATOM	4338	CA	VAL	559	25.918	93.868	60.579	1.00 95.25	C
ATOM	4339	CB	VAL	559	25.022	94.483	59.544	1.00 95.25	C
ATOM	4340	CG1	VAL	559	25.469	95.936	59.313	1.00 95.25	C
ATOM	4341	CG2	VAL	559	25.050	93.612	58.277	1.00 95.25	C
ATOM	4342	C	VAL	559	25.868	94.744	61.782	1.00 95.25	C
ATOM	4343	O	VAL	559	26.756	95.568	61.996	1.00 95.25	O
ATOM	4344	N	CYS	560	24.874	94.502	62.653	1.00100.95	N
ATOM	4345	CA	CYS	560	24.526	95.412	63.702	1.00100.95	C
ATOM	4346	CB	CYS	560	23.530	94.806	64.703	1.00100.95	C
ATOM	4347	SG	CYS	560	23.094	95.969	66.030	1.00100.95	S
ATOM	4348	C	CYS	560	25.729	95.866	64.497	1.00100.95	C
ATOM	4349	O	CYS	560	25.926	97.071	64.653	1.00100.95	O
ATOM	4350	N	ASN	561	26.596	94.955	64.981	1.00137.00	N
ATOM	4351	CA	ASN	561	27.700	95.413	65.784	1.00137.00	C
ATOM	4352	CB	ASN	561	28.305	94.288	66.641	1.00137.00	C
ATOM	4353	CG	ASN	561	28.764	93.181	65.702	1.00137.00	C
ATOM	4354	OD1	ASN	561	28.008	92.722	64.847	1.00137.00	O
ATOM	4355	ND2	ASN	561	30.041	92.742	65.857	1.00137.00	N
ATOM	4356	C	ASN	561	28.792	95.961	64.913	1.00137.00	C
ATOM	4357	O	ASN	561	29.950	95.555	65.008	1.00137.00	O
ATOM	4358	N	ALA	562	28.467	96.964	64.080	1.00 60.97	N
ATOM	4359	CA	ALA	562	29.473	97.550	63.255	1.00 60.97	C

ATOM	4360	CB	ALA	562	29.050	97.735	61.793	1.00	60.97	C
ATOM	4361	C	ALA	562	29.748	98.896	63.828	1.00	60.97	C
ATOM	4362	O	ALA	562	28.830	99.618	64.217	1.00	60.97	O
ATOM	4363	N	ASP	563	31.042	99.257	63.897	1.00	75.56	N
ATOM	4364	CA	ASP	563	31.416	100.527	64.435	1.00	75.56	C
ATOM	4365	CB	ASP	563	32.935	100.768	64.372	1.00	75.56	C
ATOM	4366	CG	ASP	563	33.612	99.780	65.312	1.00	75.56	C
ATOM	4367	OD1	ASP	563	32.897	99.173	66.154	1.00	75.56	O
ATOM	4368	OD2	ASP	563	34.856	99.615	65.197	1.00	75.56	O
ATOM	4369	C	ASP	563	30.762	101.539	63.554	1.00	75.56	C
ATOM	4370	O	ASP	563	30.319	102.591	64.010	1.00	75.56	O
ATOM	4371	N	VAL	564	30.705	101.233	62.246	1.00	136.19	N
ATOM	4372	CA	VAL	564	30.101	102.108	61.286	1.00	136.19	C
ATOM	4373	CB	VAL	564	31.093	103.101	60.748	1.00	136.19	C
ATOM	4374	CG1	VAL	564	32.306	102.323	60.206	1.00	136.19	C
ATOM	4375	CG2	VAL	564	30.407	103.986	59.695	1.00	136.19	C
ATOM	4376	C	VAL	564	29.622	101.269	60.138	1.00	136.19	C
ATOM	4377	O	VAL	564	30.099	100.151	59.938	1.00	136.19	O
ATOM	4378	N	ILE	565	28.650	101.800	59.362	1.00	136.57	N
ATOM	4379	CA	ILE	565	28.099	101.123	58.217	1.00	136.57	C
ATOM	4380	CB	ILE	565	26.649	100.772	58.380	1.00	136.57	C
ATOM	4381	CG1	ILE	565	26.436	99.940	59.653	1.00	136.57	C
ATOM	4382	CG2	ILE	565	26.192	100.055	57.097	1.00	136.57	C
ATOM	4383	CD1	ILE	565	27.235	98.645	59.665	1.00	136.57	C
ATOM	4384	C	ILE	565	28.147	102.107	57.087	1.00	136.57	C
ATOM	4385	O	ILE	565	28.166	103.314	57.318	1.00	136.57	O
ATOM	4386	N	ALA	566	28.202	101.619	55.830	1.00	65.07	N
ATOM	4387	CA	ALA	566	28.217	102.508	54.702	1.00	65.07	C
ATOM	4388	CB	ALA	566	29.601	102.627	54.041	1.00	65.07	C
ATOM	4389	C	ALA	566	27.277	101.950	53.671	1.00	65.07	C
ATOM	4390	O	ALA	566	27.165	100.735	53.498	1.00	65.07	O
ATOM	4391	N	GLY	567	26.590	102.837	52.923	1.00	66.25	N
ATOM	4392	CA	GLY	567	25.605	102.356	51.997	1.00	66.25	C
ATOM	4393	C	GLY	567	26.178	102.260	50.629	1.00	66.25	C
ATOM	4394	O	GLY	567	26.632	103.242	50.052	1.00	66.25	O
ATOM	4395	N	PHE	568	26.120	101.040	50.076	1.00	111.32	N
ATOM	4396	CA	PHE	568	26.562	100.707	48.758	1.00	111.32	C
ATOM	4397	CB	PHE	568	27.837	99.842	48.691	1.00	111.32	C
ATOM	4398	CG	PHE	568	29.058	100.654	48.974	1.00	111.32	C
ATOM	4399	CD1	PHE	568	29.548	101.518	48.022	1.00	111.32	C
ATOM	4400	CD2	PHE	568	29.740	100.530	50.164	1.00	111.32	C
ATOM	4401	CE1	PHE	568	30.679	102.263	48.258	1.00	111.32	C
ATOM	4402	CE2	PHE	568	30.873	101.273	50.407	1.00	111.32	C
ATOM	4403	CZ	PHE	568	31.345	102.144	49.455	1.00	111.32	C
ATOM	4404	C	PHE	568	25.478	99.876	48.160	1.00	111.32	C
ATOM	4405	O	PHE	568	24.512	99.507	48.828	1.00	111.32	O
ATOM	4406	N	ASP	569	25.597	99.614	46.850	1.00	206.96	N
ATOM	4407	CA	ASP	569	24.656	98.808	46.142	1.00	206.96	C
ATOM	4408	CB	ASP	569	23.201	99.211	46.436	1.00	206.96	C
ATOM	4409	CG	ASP	569	22.271	98.181	45.819	1.00	206.96	C
ATOM	4410	OD1	ASP	569	22.180	98.146	44.564	1.00	206.96	O
ATOM	4411	OD2	ASP	569	21.629	97.424	46.595	1.00	206.96	O
ATOM	4412	C	ASP	569	24.935	99.083	44.709	1.00	206.96	C
ATOM	4413	O	ASP	569	24.224	99.843	44.054	1.00	206.96	O
ATOM	4414	N	ASP	570	25.926	98.376	44.153	1.00	148.12	N
ATOM	4415	CA	ASP	570	26.354	98.655	42.815	1.00	148.12	C
ATOM	4416	CB	ASP	570	25.234	98.579	41.766	1.00	148.12	C
ATOM	4417	CG	ASP	570	25.868	98.591	40.380	1.00	148.12	C
ATOM	4418	OD1	ASP	570	27.124	98.663	40.291	1.00	148.12	O
ATOM	4419	OD2	ASP	570	25.097	98.526	39.386	1.00	148.12	O
ATOM	4420	C	ASP	570	26.970	100.017	42.672	1.00	148.12	C
ATOM	4421	O	ASP	570	26.508	100.822	41.869	1.00	148.12	O
ATOM	4422	N	GLY	571	28.036	100.315	43.445	1.00	77.68	N
ATOM	4423	CA	GLY	571	28.770	101.540	43.266	1.00	77.68	C
ATOM	4424	C	GLY	571	27.992	102.775	43.661	1.00	77.68	C
ATOM	4425	O	GLY	571	27.756	103.633	42.814	1.00	77.68	O
ATOM	4426	N	VAL	572	27.527	102.899	44.927	1.00	118.47	N
ATOM	4427	CA	VAL	572	26.880	104.129	45.337	1.00	118.47	C
ATOM	4428	CB	VAL	572	25.403	104.111	45.077	1.00	118.47	C
ATOM	4429	CG1	VAL	572	24.770	105.314	45.773	1.00	118.47	C
ATOM	4430	CG2	VAL	572	25.161	104.110	43.564	1.00	118.47	C
ATOM	4431	C	VAL	572	27.029	104.293	46.828	1.00	118.47	C
ATOM	4432	O	VAL	572	26.393	103.547	47.564	1.00	118.47	O
ATOM	4433	N	ILE	573	27.789	105.311	47.319	1.00	157.88	N

ATOM	4434	CA	ILE	573	27.982	105.461	48.750	1.00157.88	C
ATOM	4435	CB	ILE	573	29.409	105.733	49.142	1.00157.88	C
ATOM	4436	CG1	ILE	573	29.514	105.873	50.670	1.00157.88	C
ATOM	4437	CG2	ILE	573	29.919	106.946	48.345	1.00157.88	C
ATOM	4438	CD1	ILE	573	29.136	104.607	51.436	1.00157.88	C
ATOM	4439	C	ILE	573	27.126	106.565	49.309	1.00157.88	C
ATOM	4440	O	ILE	573	27.416	107.743	49.125	1.00157.88	O
ATOM	4441	N	VAL	574	25.943	106.221	49.868	1.00142.15	N
ATOM	4442	CA	VAL	574	25.090	107.208	50.480	1.00142.15	C
ATOM	4443	CB	VAL	574	23.663	106.977	50.075	1.00142.15	C
ATOM	4444	CG1	VAL	574	23.576	107.204	48.556	1.00142.15	C
ATOM	4445	CG2	VAL	574	23.244	105.552	50.477	1.00142.15	C
ATOM	4446	C	VAL	574	25.139	107.418	51.979	1.00142.15	C
ATOM	4447	O	VAL	574	25.651	108.424	52.471	1.00142.15	O
ATOM	4448	N	GLU	575	24.679	106.396	52.746	1.00105.91	N
ATOM	4449	CA	GLU	575	24.348	106.559	54.142	1.00105.91	C
ATOM	4450	CB	GLU	575	23.016	105.869	54.478	1.00105.91	C
ATOM	4451	CG	GLU	575	21.834	106.445	53.695	1.00105.91	C
ATOM	4452	CD	GLU	575	20.727	105.401	53.675	1.00105.91	C
ATOM	4453	OE1	GLU	575	21.023	104.219	53.996	1.00105.91	O
ATOM	4454	OE2	GLU	575	19.572	105.769	53.331	1.00105.91	O
ATOM	4455	C	GLU	575	25.387	105.931	55.004	1.00105.91	C
ATOM	4456	O	GLU	575	25.538	104.710	55.015	1.00105.91	O
ATOM	4457	N	LYS	576	26.098	106.762	55.792	1.00150.69	N
ATOM	4458	CA	LYS	576	27.114	106.240	56.653	1.00150.69	C
ATOM	4459	CB	LYS	576	28.503	106.880	56.447	1.00150.69	C
ATOM	4460	CG	LYS	576	28.578	108.402	56.619	1.00150.69	C
ATOM	4461	CD	LYS	576	28.433	108.896	58.061	1.00150.69	C
ATOM	4462	CE	LYS	576	27.228	109.812	58.287	1.00150.69	C
ATOM	4463	NZ	LYS	576	27.167	110.223	59.708	1.00150.69	N
ATOM	4464	C	LYS	576	26.669	106.467	58.055	1.00150.69	C
ATOM	4465	O	LYS	576	25.923	107.404	58.334	1.00150.69	O
ATOM	4466	N	GLY	577	27.072	105.569	58.974	1.00 57.06	N
ATOM	4467	CA	GLY	577	26.700	105.792	60.332	1.00 57.06	C
ATOM	4468	C	GLY	577	26.246	104.514	60.958	1.00 57.06	C
ATOM	4469	O	GLY	577	26.305	103.437	60.366	1.00 57.06	O
ATOM	4470	N	ASN	578	25.742	104.651	62.197	1.00 86.71	N
ATOM	4471	CA	ASN	578	25.309	103.581	63.042	1.00 86.71	C
ATOM	4472	CB	ASN	578	25.020	104.079	64.474	1.00 86.71	C
ATOM	4473	CG	ASN	578	24.559	102.930	65.357	1.00 86.71	C
ATOM	4474	OD1	ASN	578	25.282	101.963	65.582	1.00 86.71	O
ATOM	4475	ND2	ASN	578	23.302	103.042	65.867	1.00 86.71	N
ATOM	4476	C	ASN	578	24.058	102.956	62.494	1.00 86.71	C
ATOM	4477	O	ASN	578	23.321	103.551	61.710	1.00 86.71	O
ATOM	4478	N	HIS	579	23.791	101.713	62.939	1.00105.37	N
ATOM	4479	CA	HIS	579	22.719	100.882	62.463	1.00105.37	C
ATOM	4480	ND1	HIS	579	21.286	97.964	61.779	1.00105.37	N
ATOM	4481	CG	HIS	579	21.438	98.738	62.906	1.00105.37	C
ATOM	4482	CB	HIS	579	22.656	99.551	63.228	1.00105.37	C
ATOM	4483	NE2	HIS	579	19.413	97.744	62.959	1.00105.37	N
ATOM	4484	CD2	HIS	579	20.286	98.593	63.616	1.00105.37	C
ATOM	4485	CE1	HIS	579	20.057	97.392	61.862	1.00105.37	C
ATOM	4486	C	HIS	579	21.377	101.513	62.598	1.00105.37	C
ATOM	4487	O	HIS	579	20.668	101.659	61.602	1.00105.37	O
ATOM	4488	N	ASP	580	21.017	101.952	63.814	1.00 71.34	N
ATOM	4489	CA	ASP	580	19.704	102.471	64.056	1.00 71.34	C
ATOM	4490	CB	ASP	580	19.515	102.964	65.500	1.00 71.34	C
ATOM	4491	CG	ASP	580	19.648	101.758	66.417	1.00 71.34	C
ATOM	4492	OD1	ASP	580	20.065	100.681	65.914	1.00 71.34	O
ATOM	4493	OD2	ASP	580	19.339	101.896	67.631	1.00 71.34	O
ATOM	4494	C	ASP	580	19.553	103.645	63.166	1.00 71.34	C
ATOM	4495	O	ASP	580	18.442	104.011	62.791	1.00 71.34	O
ATOM	4496	N	GLU	581	20.685	104.295	62.854	1.00 60.93	N
ATOM	4497	CA	GLU	581	20.680	105.454	62.017	1.00 60.93	C
ATOM	4498	CB	GLU	581	22.088	106.057	61.901	1.00 60.93	C
ATOM	4499	CG	GLU	581	22.656	106.486	63.255	1.00 60.93	C
ATOM	4500	CD	GLU	581	24.090	106.949	63.045	1.00 60.93	C
ATOM	4501	OE1	GLU	581	24.442	107.272	61.880	1.00 60.93	O
ATOM	4502	OE2	GLU	581	24.852	106.984	64.048	1.00 60.93	O
ATOM	4503	C	GLU	581	20.233	105.086	60.629	1.00 60.93	C
ATOM	4504	O	GLU	581	19.395	105.765	60.042	1.00 60.93	O
ATOM	4505	N	LEU	582	20.794	104.005	60.053	1.00129.42	N
ATOM	4506	CA	LEU	582	20.451	103.616	58.709	1.00129.42	C
ATOM	4507	CB	LEU	582	21.417	102.583	58.100	1.00129.42	C

ATOM	4508	CG	LEU	582	22.796	103.173	57.739	1.00129.42	C
ATOM	4509	CD1	LEU	582	23.543	103.678	58.980	1.00129.42	C
ATOM	4510	CD2	LEU	582	23.627	102.184	56.908	1.00129.42	C
ATOM	4511	C	LEU	582	19.061	103.061	58.612	1.00129.42	C
ATOM	4512	O	LEU	582	18.407	103.205	57.578	1.00129.42	O
ATOM	4513	N	MET	583	18.621	102.303	59.634	1.00 82.39	N
ATOM	4514	CA	MET	583	17.277	101.790	59.679	1.00 82.39	C
ATOM	4515	CB	MET	583	17.072	100.821	60.854	1.00 82.39	C
ATOM	4516	CG	MET	583	17.899	99.539	60.747	1.00 82.39	C
ATOM	4517	SD	MET	583	17.270	98.321	59.555	1.00 82.39	S
ATOM	4518	CE	MET	583	16.117	97.560	60.733	1.00 82.39	C
ATOM	4519	C	MET	583	16.347	102.944	59.908	1.00 82.39	C
ATOM	4520	O	MET	583	15.284	103.033	59.296	1.00 82.39	O
ATOM	4521	N	LYS	584	16.743	103.875	60.802	1.00148.83	N
ATOM	4522	CA	LYS	584	15.901	104.986	61.140	1.00148.83	C
ATOM	4523	CB	LYS	584	16.429	105.874	62.287	1.00148.83	C
ATOM	4524	CG	LYS	584	17.701	106.667	61.991	1.00148.83	C
ATOM	4525	CD	LYS	584	18.002	107.743	63.036	1.00148.83	C
ATOM	4526	CE	LYS	584	18.259	107.178	64.435	1.00148.83	C
ATOM	4527	NZ	LYS	584	19.594	106.541	64.489	1.00148.83	N
ATOM	4528	C	LYS	584	15.729	105.794	59.902	1.00148.83	C
ATOM	4529	O	LYS	584	14.703	106.447	59.707	1.00148.83	O
ATOM	4530	N	GLU	585	16.766	105.776	59.047	1.00111.28	N
ATOM	4531	CA	GLU	585	16.728	106.435	57.779	1.00111.28	C
ATOM	4532	CB	GLU	585	18.036	106.288	56.989	1.00111.28	C
ATOM	4533	CG	GLU	585	19.167	107.168	57.505	1.00111.28	C
ATOM	4534	CD	GLU	585	18.854	108.585	57.056	1.00111.28	C
ATOM	4535	OE1	GLU	585	17.831	108.763	56.341	1.00111.28	O
ATOM	4536	OE2	GLU	585	19.630	109.508	57.418	1.00111.28	O
ATOM	4537	C	GLU	585	15.672	105.773	56.953	1.00111.28	C
ATOM	4538	O	GLU	585	14.942	106.443	56.224	1.00111.28	O
ATOM	4539	N	LYS	586	15.550	104.435	57.068	1.00113.18	N
ATOM	4540	CA	LYS	586	14.626	103.719	56.235	1.00113.18	C
ATOM	4541	CB	LYS	586	13.186	104.252	56.324	1.00113.18	C
ATOM	4542	CG	LYS	586	12.522	104.029	57.682	1.00113.18	C
ATOM	4543	CD	LYS	586	12.322	102.554	58.031	1.00113.18	C
ATOM	4544	CE	LYS	586	11.657	102.341	59.392	1.00113.18	C
ATOM	4545	NZ	LYS	586	11.411	100.898	59.614	1.00113.18	N
ATOM	4546	C	LYS	586	15.103	103.949	54.846	1.00113.18	C
ATOM	4547	O	LYS	586	14.322	104.012	53.897	1.00113.18	O
ATOM	4548	N	GLY	587	16.434	104.062	54.707	1.00 42.84	N
ATOM	4549	CA	GLY	587	17.029	104.327	53.441	1.00 42.84	C
ATOM	4550	C	GLY	587	17.448	103.027	52.847	1.00 42.84	C
ATOM	4551	O	GLY	587	16.713	102.039	52.867	1.00 42.84	O
ATOM	4552	N	ILE	588	18.658	103.018	52.264	1.00 82.56	N
ATOM	4553	CA	ILE	588	19.132	101.848	51.601	1.00 82.56	C
ATOM	4554	CB	ILE	588	20.436	102.073	50.897	1.00 82.56	C
ATOM	4555	CG1	ILE	588	20.255	103.117	49.785	1.00 82.56	C
ATOM	4556	CG2	ILE	588	20.952	100.716	50.390	1.00 82.56	C
ATOM	4557	CD1	ILE	588	21.569	103.529	49.131	1.00 82.56	C
ATOM	4558	C	ILE	588	19.327	100.725	52.567	1.00 82.56	C
ATOM	4559	O	ILE	588	18.857	99.613	52.322	1.00 82.56	O
ATOM	4560	N	TYR	589	19.980	100.999	53.714	1.00132.30	N
ATOM	4561	CA	TYR	589	20.292	99.945	54.635	1.00132.30	C
ATOM	4562	CB	TYR	589	20.951	100.499	55.907	1.00132.30	C
ATOM	4563	CG	TYR	589	21.254	99.387	56.847	1.00132.30	C
ATOM	4564	CD1	TYR	589	22.270	98.500	56.580	1.00132.30	C
ATOM	4565	CD2	TYR	589	20.539	99.251	58.012	1.00132.30	C
ATOM	4566	CE1	TYR	589	22.557	97.483	57.455	1.00132.30	C
ATOM	4567	CE2	TYR	589	20.823	98.234	58.893	1.00132.30	C
ATOM	4568	CZ	TYR	589	21.833	97.347	58.614	1.00132.30	C
ATOM	4569	OH	TYR	589	22.126	96.305	59.518	1.00132.30	O
ATOM	4570	C	TYR	589	19.027	99.245	55.017	1.00132.30	C
ATOM	4571	O	TYR	589	18.867	98.042	54.806	1.00132.30	O
ATOM	4572	N	PHE	590	18.045	100.022	55.476	1.00105.77	N
ATOM	4573	CA	PHE	590	16.804	99.470	55.923	1.00105.77	C
ATOM	4574	CB	PHE	590	15.823	100.556	56.399	1.00105.77	C
ATOM	4575	CG	PHE	590	14.539	99.888	56.749	1.00105.77	C
ATOM	4576	CD1	PHE	590	14.381	99.254	57.959	1.00105.77	C
ATOM	4577	CD2	PHE	590	13.487	99.903	55.863	1.00105.77	C
ATOM	4578	CE1	PHE	590	13.193	98.640	58.278	1.00105.77	C
ATOM	4579	CE2	PHE	590	12.297	99.291	56.175	1.00105.77	C
ATOM	4580	CZ	PHE	590	12.149	98.656	57.384	1.00105.77	C
ATOM	4581	C	PHE	590	16.156	98.737	54.786	1.00105.77	C

ATOM	4582	O	PHE	590	15.737	97.586	54.923	1.00105.77	O
ATOM	4583	N	LYS	591	16.103	99.377	53.604	1.00148.88	N
ATOM	4584	CA	LYS	591	15.369	98.804	52.519	1.00148.88	C
ATOM	4585	CB	LYS	591	15.370	99.667	51.243	1.00148.88	C
ATOM	4586	CG	LYS	591	16.744	99.815	50.586	1.00148.88	C
ATOM	4587	CD	LYS	591	16.696	100.313	49.140	1.00148.88	C
ATOM	4588	CE	LYS	591	16.498	99.200	48.108	1.00148.88	C
ATOM	4589	NZ	LYS	591	15.093	98.735	48.123	1.00148.88	N
ATOM	4590	C	LYS	591	15.971	97.491	52.160	1.00148.88	C
ATOM	4591	O	LYS	591	15.286	96.481	52.014	1.00148.88	O
ATOM	4592	N	LEU	592	17.298	97.461	52.050	1.00 96.65	N
ATOM	4593	CA	LEU	592	17.955	96.261	51.652	1.00 96.65	C
ATOM	4594	CB	LEU	592	19.473	96.464	51.520	1.00 96.65	C
ATOM	4595	CG	LEU	592	19.828	97.629	50.576	1.00 96.65	C
ATOM	4596	CD1	LEU	592	21.342	97.731	50.343	1.00 96.65	C
ATOM	4597	CD2	LEU	592	19.012	97.572	49.278	1.00 96.65	C
ATOM	4598	C	LEU	592	17.707	95.238	52.701	1.00 96.65	C
ATOM	4599	O	LEU	592	17.564	94.052	52.402	1.00 96.65	O
ATOM	4600	N	VAL	593	17.632	95.696	53.965	1.00103.28	N
ATOM	4601	CA	VAL	593	17.467	94.792	55.062	1.00103.28	C
ATOM	4602	CB	VAL	593	17.281	95.474	56.390	1.00103.28	C
ATOM	4603	CG1	VAL	593	16.845	94.415	57.418	1.00103.28	C
ATOM	4604	CG2	VAL	593	18.597	96.170	56.781	1.00103.28	C
ATOM	4605	C	VAL	593	16.237	93.978	54.782	1.00103.28	C
ATOM	4606	O	VAL	593	16.257	92.752	54.853	1.00103.28	O
ATOM	4607	N	THR	594	15.143	94.643	54.386	1.00174.04	N
ATOM	4608	CA	THR	594	13.892	93.968	54.164	1.00174.04	C
ATOM	4609	CB	THR	594	12.756	94.922	53.940	1.00174.04	C
ATOM	4610	OG1	THR	594	12.957	95.653	52.740	1.00174.04	O
ATOM	4611	CG2	THR	594	12.680	95.886	55.134	1.00174.04	C
ATOM	4612	C	THR	594	13.964	93.085	52.945	1.00174.04	C
ATOM	4613	O	THR	594	13.467	91.960	52.917	1.00174.04	O
ATOM	4614	N	MET	595	14.649	93.589	51.914	1.00157.47	N
ATOM	4615	CA	MET	595	14.798	93.068	50.583	1.00157.47	C
ATOM	4616	CB	MET	595	15.487	94.083	49.652	1.00157.47	C
ATOM	4617	CG	MET	595	15.660	93.598	48.213	1.00157.47	C
ATOM	4618	SD	MET	595	16.472	94.803	47.120	1.00157.47	S
ATOM	4619	CE	MET	595	15.052	95.931	47.065	1.00157.47	C
ATOM	4620	C	MET	595	15.644	91.815	50.580	1.00157.47	C
ATOM	4621	O	MET	595	15.850	91.200	49.534	1.00157.47	O
ATOM	4622	N	GLN	596	16.128	91.391	51.760	1.00215.40	N
ATOM	4623	CA	GLN	596	17.228	90.491	52.004	1.00215.40	C
ATOM	4624	CB	GLN	596	17.273	89.946	53.440	1.00215.40	C
ATOM	4625	CG	GLN	596	18.111	90.797	54.384	1.00215.40	C
ATOM	4626	CD	GLN	596					

ATOM	4656	CB	GLU	600	16.105	77.765	43.590	1.00330.11	C
ATOM	4657	CG	GLU	600	15.434	78.720	42.591	1.00330.11	C
ATOM	4658	CD	GLU	600	15.993	80.131	42.741	1.00330.11	C
ATOM	4659	OE1	GLU	600	15.804	80.761	43.817	1.00330.11	O
ATOM	4660	OE2	GLU	600	16.647	80.583	41.764	1.00330.11	O
ATOM	4661	C	GLU	600	17.769	76.738	42.048	1.00330.11	C
ATOM	4662	O	GLU	600	18.029	77.262	40.972	1.00330.11	O
ATOM	4663	N	SER	601	17.565	75.382	42.097	1.00201.31	N
ATOM	4664	CA	SER	601	17.588	74.406	40.992	1.00201.31	C
ATOM	4665	CB	SER	601	18.956	73.729	40.797	1.00201.31	C
ATOM	4666	OG	SER	601	18.892	72.800	39.725	1.00201.31	O
ATOM	4667	C	SER	601	16.635	73.355	41.447	1.00201.31	C
ATOM	4668	O	SER	601	16.241	73.369	42.612	1.00201.31	O
ATOM	4669	N	ILE	602	16.209	72.424	40.568	1.00180.42	N
ATOM	4670	CA	ILE	602	15.211	71.528	41.089	1.00180.42	C
ATOM	4671	CB	ILE	602	13.855	71.912	40.567	1.00180.42	C
ATOM	4672	CG1	ILE	602	13.517	73.339	41.028	1.00180.42	C
ATOM	4673	CG2	ILE	602	12.819	70.870	40.999	1.00180.42	C
ATOM	4674	CD1	ILE	602	12.310	73.940	40.312	1.00180.42	C
ATOM	4675	C	ILE	602	15.452	70.076	40.763	1.00180.42	C
ATOM	4676	O	ILE	602	15.605	69.672	39.610	1.00180.42	O
ATOM	4677	N	PRO	603	15.485	69.283	41.810	1.00 83.46	N
ATOM	4678	CA	PRO	603	15.603	67.845	41.677	1.00 83.46	C
ATOM	4679	CD	PRO	603	16.096	69.758	43.043	1.00 83.46	C
ATOM	4680	CB	PRO	603	16.009	67.331	43.056	1.00 83.46	C
ATOM	4681	CG	PRO	603	16.745	68.524	43.690	1.00 83.46	C
ATOM	4682	C	PRO	603	14.390	67.136	41.128	1.00 83.46	C
ATOM	4683	O	PRO	603	14.561	66.083	40.512	1.00 83.46	O
ATOM	4684	N	PRO	604	13.196	67.629	41.313	1.00 93.44	N
ATOM	4685	CA	PRO	604	12.063	66.885	40.816	1.00 93.44	C
ATOM	4686	CD	PRO	604	12.874	68.291	42.567	1.00 93.44	C
ATOM	4687	CB	PRO	604	10.837	67.534	41.449	1.00 93.44	C
ATOM	4688	CG	PRO	604	11.376	68.024	42.808	1.00 93.44	C
ATOM	4689	C	PRO	604	12.051	66.776	39.326	1.00 93.44	C
ATOM	4690	O	PRO	604	12.439	67.725	38.647	1.00 93.44	O
ATOM	4691	N	VAL	605	11.577	65.629	38.804	1.00121.61	N
ATOM	4692	CA	VAL	605	11.621	65.367	37.394	1.00121.61	C
ATOM	4693	CB	VAL	605	12.343	64.070	37.105	1.00121.61	C
ATOM	4694	CG1	VAL	605	12.538	63.858	35.590	1.00121.61	C
ATOM	4695	CG2	VAL	605	13.664	64.093	37.894	1.00121.61	C
ATOM	4696	C	VAL	605	10.180	65.311	36.946	1.00121.61	C
ATOM	4697	O	VAL	605	9.353	66.064	37.461	1.00121.61	O
ATOM	4698	N	SER	606	9.838	64.514	35.910	1.00190.41	N
ATOM	4699	CA	SER	606	8.458	64.454	35.510	1.00190.41	C
ATOM	4700	CB	SER	606	8.051	65.709	34.711	1.00190.41	C
ATOM	4701	OG	SER	606	6.688	65.652	34.323	1.00190.41	O
ATOM	4702	C	SER	606	8.281	63.251	34.624	1.00190.41	C
ATOM	4703	O	SER	606	8.106	63.369	33.410	1.00190.41	O
ATOM	4704	N	PHE	607	8.221	62.050	35.228	1.00161.02	N
ATOM	4705	CA	PHE	607	8.173	60.848	34.439	1.00161.02	C
ATOM	4706	CB	PHE	607	8.279	59.580	35.318	1.00161.02	C
ATOM	4707	CG	PHE	607	7.137	59.584	36.282	1.00161.02	C
ATOM	4708	CD1	PHE	607	7.126	60.467	37.336	1.00161.02	C
ATOM	4709	CD2	PHE	607	6.059	58.743	36.115	1.00161.02	C
ATOM	4710	CE1	PHE	607	6.075	60.495	38.223	1.00161.02	C
ATOM	4711	CE2	PHE	607	5.005	58.765	36.998	1.00161.02	C
ATOM	4712	CZ	PHE	607	5.011	59.641	38.057	1.00161.02	C
ATOM	4713	C	PHE	607	6.913	60.793	33.619	1.00161.02	C
ATOM	4714	O	PHE	607	5.810	60.597	34.125	1.00161.02	O
ATOM	4715	N	TRP	608	7.044	61.042	32.298	1.00111.80	N
ATOM	4716	CA	TRP	608	5.969	60.908	31.347	1.00111.80	C
ATOM	4717	CB	TRP	608	5.460	59.462	31.234	1.00111.80	C
ATOM	4718	CG	TRP	608	6.396	58.595	30.426	1.00111.80	C
ATOM	4719	CD2	TRP	608	7.699	58.173	30.862	1.00111.80	C
ATOM	4720	CD1	TRP	608	6.244	58.118	29.157	1.00111.80	C
ATOM	4721	NE1	TRP	608	7.364	57.417	28.779	1.00111.80	N
ATOM	4722	CE2	TRP	608	8.269	57.446	29.818	1.00111.80	C
ATOM	4723	CE3	TRP	608	8.369	58.384	32.031	1.00111.80	C
ATOM	4724	CZ2	TRP	608	9.523	56.915	29.930	1.00111.80	C
ATOM	4725	CZ3	TRP	608	9.630	57.840	32.145	1.00111.80	C
ATOM	4726	CH2	TRP	608	10.195	57.119	31.114	1.00111.80	C
ATOM	4727	C	TRP	608	4.845	61.840	31.689	1.00111.80	C
ATOM	4728	O	TRP	608	3.823	61.864	31.006	1.00111.80	O
ATOM	4729	N	ARG	609	5.018	62.662	32.741	1.00 69.59	N

ATOM	4730	CA	ARG	609	3.996	63.563	33.170	1.00	69.59	C
ATOM	4731	CB	ARG	609	4.328	64.194	34.532	1.00	69.59	C
ATOM	4732	CG	ARG	609	3.276	65.167	35.059	1.00	69.59	C
ATOM	4733	CD	ARG	609	3.600	65.682	36.463	1.00	69.59	C
ATOM	4734	NE	ARG	609	2.512	66.614	36.864	1.00	69.59	N
ATOM	4735	CZ	ARG	609	2.784	67.936	37.067	1.00	69.59	C
ATOM	4736	NH1	ARG	609	4.060	68.403	36.946	1.00	69.59	N
ATOM	4737	NH2	ARG	609	1.775	68.791	37.401	1.00	69.59	N
ATOM	4738	C	ARG	609	3.867	64.639	32.154	1.00	69.59	C
ATOM	4739	O	ARG	609	2.769	65.011	31.753	1.00	69.59	O
ATOM	4740	N	ILE	610	5.021	65.131	31.683	1.00	93.71	N
ATOM	4741	CA	ILE	610	5.101	66.172	30.717	1.00	93.71	C
ATOM	4742	CB	ILE	610	6.510	66.597	30.415	1.00	93.71	C
ATOM	4743	CG1	ILE	610	7.320	65.436	29.817	1.00	93.71	C
ATOM	4744	CG2	ILE	610	7.108	67.185	31.705	1.00	93.71	C
ATOM	4745	CD1	ILE	610	8.680	65.865	29.269	1.00	93.71	C
ATOM	4746	C	ILE	610	4.472	65.662	29.484	1.00	93.71	C
ATOM	4747	O	ILE	610	4.124	66.470	28.641	1.00	93.71	O
ATOM	4748	N	MET	611	4.481	64.329	29.265	1.00	131.61	N
ATOM	4749	CA	MET	611	3.779	63.743	28.152	1.00	131.61	C
ATOM	4750	CB	MET	611	4.053	62.237	28.001	1.00	131.61	C
ATOM	4751	CG	MET	611	3.216	61.588	26.898	1.00	131.61	C
ATOM	4752	SD	MET	611	3.629	62.123	25.212	1.00	131.61	S
ATOM	4753	CE	MET	611	2.274	61.216	24.406	1.00	131.61	C
ATOM	4754	C	MET	611	2.305	63.896	28.372	1.00	131.61	C
ATOM	4755	O	MET	611	1.558	64.305	27.483	1.00	131.61	O
ATOM	4756	N	LYS	612	1.860	63.591	29.602	1.00	133.19	N
ATOM	4757	CA	LYS	612	0.469	63.621	29.947	1.00	133.19	C
ATOM	4758	CB	LYS	612	0.312	63.297	31.441	1.00	133.19	C
ATOM	4759	CG	LYS	612	-1.102	63.005	31.926	1.00	133.19	C
ATOM	4760	CD	LYS	612	-1.119	62.564	33.394	1.00	133.19	C
ATOM	4761	CE	LYS	612	0.022	61.609	33.762	1.00	133.19	C
ATOM	4762	NZ	LYS	612	0.127	61.482	35.235	1.00	133.19	N
ATOM	4763	C	LYS	612	0.014	65.026	29.751	1.00	133.19	C
ATOM	4764	O	LYS	612	-0.936	65.317	29.026	1.00	133.19	O
ATOM	4765	N	LEU	613	0.764	65.936	30.380	1.00	74.47	N
ATOM	4766	CA	LEU	613	0.553	67.339	30.349	1.00	74.47	C
ATOM	4767	CB	LEU	613	1.518	68.115	31.260	1.00	74.47	C
ATOM	4768	CG	LEU	613	1.313	67.824	32.758	1.00	74.47	C
ATOM	4769	CD1	LEU	613	2.299	68.624	33.624	1.00	74.47	C
ATOM	4770	CD2	LEU	613	-0.149	68.043	33.170	1.00	74.47	C
ATOM	4771	C	LEU	613	0.802	67.776	28.953	1.00	74.47	C
ATOM	4772	O	LEU	613	0.247	68.786	28.530	1.00	74.47	O
ATOM	4773	N	ASN	614	1.654	67.029	28.215	1.00	103.86	N
ATOM	4774	CA	ASN	614	2.029	67.410	26.877	1.00	103.86	C
ATOM	4775	CB	ASN	614	2.697	66.316	26.004	1.00	103.86	C
ATOM	4776	CG	ASN	614	4.215	66.412	25.945	1.00	103.86	C
ATOM	4777	OD1	ASN	614	4.797	67.427	26.324	1.00	103.86	O
ATOM	4778	ND2	ASN	614	4.873	65.328	25.451	1.00	103.86	N
ATOM	4779	C	ASN	614	0.762	67.618	26.152	1.00	103.86	C
ATOM	4780	O	ASN	614	0.458	68.717	25.702	1.00	103.86	O
ATOM	4781	N	LEU	615	-0.069	66.580	26.173	1.00	164.73	N
ATOM	4782	CA	LEU	615	-1.310	66.607	25.481	1.00	164.73	C
ATOM	4783	CB	LEU	615	-2.101	65.299	25.643	1.00	164.73	C
ATOM	4784	CG	LEU	615	-1.358	64.068	25.087	1.00	164.73	C
ATOM	4785	CD1	LEU	615	-2.191	62.787	25.262	1.00	164.73	C
ATOM	4786	CD2	LEU	615	-0.895	64.298	23.638	1.00	164.73	C
ATOM	4787	C	LEU	615	-2.135	67.718	26.052	1.00	164.73	C
ATOM	4788	O	LEU	615	-2.933	68.311	25.330	1.00	164.73	O
ATOM	4789	N	THR	616	-2.007	68.027	27.363	1.00	150.17	N
ATOM	4790	CA	THR	616	-2.849	69.095	27.834	1.00	150.17	C
ATOM	4791	CB	THR	616	-2.812	69.388	29.315	1.00	150.17	C
ATOM	4792	OG1	THR	616	-1.629	70.066	29.702	1.00	150.17	O
ATOM	4793	CG2	THR	616	-2.923	68.051	30.063	1.00	150.17	C
ATOM	4794	C	THR	616	-2.416	70.329	27.111	1.00	150.17	C
ATOM	4795	O	THR	616	-3.229	71.148	26.689	1.00	150.17	O
ATOM	4796	N	GLU	617	-1.095	70.453	26.913	1.00	170.59	N
ATOM	4797	CA	GLU	617	-0.461	71.514	26.188	1.00	170.59	C
ATOM	4798	CB	GLU	617	1.076	71.560	26.288	1.00	170.59	C
ATOM	4799	CG	GLU	617	1.612	72.167	27.587	1.00	170.59	C
ATOM	4800	CD	GLU	617	1.765	71.066	28.621	1.00	170.59	C
ATOM	4801	OE1	GLU	617	2.431	70.046	28.302	1.00	170.59	O
ATOM	4802	OE2	GLU	617	1.220	71.228	29.746	1.00	170.59	O
ATOM	4803	C	GLU	617	-0.789	71.348	24.746	1.00	170.59	C

ATOM	4804	O	GLU	617	-0.136	71.951	23.906	1.00170.59	O
ATOM	4805	N	TRP	618	-1.666	70.394	24.398	1.00140.84	N
ATOM	4806	CA	TRP	618	-1.876	70.134	23.008	1.00140.84	C
ATOM	4807	CB	TRP	618	-1.163	68.806	22.704	1.00140.84	C
ATOM	4808	CG	TRP	618	-1.175	68.224	21.320	1.00140.84	C
ATOM	4809	CD2	TRP	618	-1.830	66.986	21.010	1.00140.84	C
ATOM	4810	CD1	TRP	618	-0.522	68.614	20.188	1.00140.84	C
ATOM	4811	NE1	TRP	618	-0.716	67.682	19.195	1.00140.84	N
ATOM	4812	CE2	TRP	618	-1.520	66.675	19.690	1.00140.84	C
ATOM	4813	CE3	TRP	618	-2.603	66.162	21.776	1.00140.84	C
ATOM	4814	CZ2	TRP	618	-1.978	65.524	19.114	1.00140.84	C
ATOM	4815	CZ3	TRP	618	-3.090	65.019	21.182	1.00140.84	C
ATOM	4816	CH2	TRP	618	-2.781	64.706	19.876	1.00140.84	C
ATOM	4817	C	TRP	618	-3.342	70.032	22.652	1.00140.84	C
ATOM	4818	O	TRP	618	-4.113	69.372	23.346	1.00140.84	O
ATOM	4819	N	PRO	619	-3.772	70.768	21.639	1.00207.92	N
ATOM	4820	CA	PRO	619	-5.106	70.628	21.100	1.00207.92	C
ATOM	4821	CD	PRO	619	-3.208	72.077	21.360	1.00207.92	C
ATOM	4822	CB	PRO	619	-5.322	71.822	20.176	1.00207.92	C
ATOM	4823	CG	PRO	619	-4.355	72.884	20.725	1.00207.92	C
ATOM	4824	C	PRO	619	-5.324	69.312	20.409	1.00207.92	C
ATOM	4825	O	PRO	619	-6.059	68.474	20.930	1.00207.92	O
ATOM	4826	N	TYR	620	-4.724	69.140	19.201	1.00144.48	N
ATOM	4827	CA	TYR	620	-4.714	67.874	18.514	1.00144.48	C
ATOM	4828	CB	TYR	620	-6.106	67.282	18.221	1.00144.48	C
ATOM	4829	CG	TYR	620	-6.739	68.000	17.083	1.00144.48	C
ATOM	4830	CD1	TYR	620	-6.500	67.577	15.796	1.00144.48	C
ATOM	4831	CD2	TYR	620	-7.571	69.073	17.293	1.00144.48	C
ATOM	4832	CE1	TYR	620	-7.075	68.217	14.726	1.00144.48	C
ATOM	4833	CE2	TYR	620	-8.151	69.718	16.225	1.00144.48	C
ATOM	4834	CZ	TYR	620	-7.904	69.290	14.942	1.00144.48	C
ATOM	4835	OH	TYR	620	-8.499	69.951	13.846	1.00144.48	O
ATOM	4836	C	TYR	620	-3.957	68.027	17.217	1.00144.48	C
ATOM	4837	O	TYR	620	-4.164	68.977	16.462	1.00144.48	O
ATOM	4838	N	PHE	621	-2.926	67.182	17.049	1.00267.13	N
ATOM	4839	CA	PHE	621	-2.028	66.969	15.952	1.00267.13	C
ATOM	4840	CB	PHE	621	-0.577	67.382	16.228	1.00267.13	C
ATOM	4841	CG	PHE	621	-0.658	68.868	16.123	1.00267.13	C
ATOM	4842	CD1	PHE	621	-0.838	69.439	14.887	1.00267.13	C
ATOM	4843	CD2	PHE	621	-0.618	69.688	17.227	1.00267.13	C
ATOM	4844	CE1	PHE	621	-0.936	70.801	14.742	1.00267.13	C
ATOM	4845	CE2	PHE	621	-0.713	71.055	17.087	1.00267.13	C
ATOM	4846	CZ	PHE	621	-0.869	71.616	15.844	1.00267.13	C
ATOM	4847	C	PHE	621	-2.075	65.694	15.182	1.00267.13	C
ATOM	4848	O	PHE	621	-1.081	65.440	14.509	1.00267.13	O
ATOM	4849	N	VAL	622	-3.071	64.801	15.353	1.00135.47	N
ATOM	4850	CA	VAL	622	-3.032	63.469	14.794	1.00135.47	C
ATOM	4851	CB	VAL	622	-4.364	62.781	14.835	1.00135.47	C
ATOM	4852	CG1	VAL	622	-4.795	62.667	16.303	1.00135.47	C
ATOM	4853	CG2	VAL	622	-5.360	63.543	13.944	1.00135.47	C
ATOM	4854	C	VAL	622	-2.626	63.530	13.357	1.00135.47	C
ATOM	4855	O	VAL	622	-1.933	62.642	12.861	1.00135.47	O
ATOM	4856	N	VAL	623	-3.022	64.600	12.657	1.00123.76	N
ATOM	4857	CA	VAL	623	-2.647	64.745	11.286	1.00123.76	C
ATOM	4858	CB	VAL	623	-3.064	66.079	10.750	1.00123.76	C
ATOM	4859	CG1	VAL	623	-2.581	67.165	11.728	1.00123.76	C
ATOM	4860	CG2	VAL	623	-2.473	66.231	9.340	1.00123.76	C
ATOM	4861	C	VAL	623	-1.151	64.653	11.163	1.00123.76	C
ATOM	4862	O	VAL	623	-0.642	63.898	10.336	1.00123.76	O
ATOM	4863	N	GLY	624	-0.391	65.387	11.997	1.00 51.22	N
ATOM	4864	CA	GLY	624	1.036	65.352	11.856	1.00 51.22	C
ATOM	4865	C	GLY	624	1.514	63.947	12.040	1.00 51.22	C
ATOM	4866	O	GLY	624	2.197	63.409	11.173	1.00 51.22	O
ATOM	4867	N	VAL	625	1.101	63.275	13.129	1.00 44.64	N
ATOM	4868	CA	VAL	625	1.578	61.943	13.381	1.00 44.64	C
ATOM	4869	CB	VAL	625	0.968	61.323	14.603	1.00 44.64	C
ATOM	4870	CG1	VAL	625	1.438	59.862	14.692	1.00 44.64	C
ATOM	4871	CG2	VAL	625	1.344	62.173	15.829	1.00 44.64	C
ATOM	4872	C	VAL	625	1.175	61.102	12.217	1.00 44.64	C
ATOM	4873	O	VAL	625	1.866	60.151	11.854	1.00 44.64	O
ATOM	4874	N	PHE	626	0.029	61.440	11.600	1.00108.31	N
ATOM	4875	CA	PHE	626	-0.471	60.661	10.508	1.00108.31	C
ATOM	4876	CB	PHE	626	-1.798	61.212	9.956	1.00108.31	C
ATOM	4877	CG	PHE	626	-2.314	60.249	8.940	1.00108.31	C

ATOM	4878	CD1	PHE	626	-1.866	60.296	7.640	1.00108.31	C
ATOM	4879	CD2	PHE	626	-3.250	59.301	9.287	1.00108.31	C
ATOM	4880	CE1	PHE	626	-2.340	59.411	6.699	1.00108.31	C
ATOM	4881	CE2	PHE	626	-3.726	58.414	8.350	1.00108.31	C
ATOM	4882	CZ	PHE	626	-3.272	58.467	7.054	1.00108.31	C
ATOM	4883	C	PHE	626	0.529	60.653	9.388	1.00108.31	C
ATOM	4884	O	PHE	626	0.961	59.592	8.944	1.00108.31	O
ATOM	4885	N	CYS	627	0.975	61.838	8.935	1.00 65.30	N
ATOM	4886	CA	CYS	627	1.896	61.883	7.837	1.00 65.30	C
ATOM	4887	CB	CYS	627	2.169	63.314	7.327	1.00 65.30	C
ATOM	4888	SG	CYS	627	2.868	64.429	8.582	1.00 65.30	S
ATOM	4889	C	CYS	627	3.173	61.247	8.281	1.00 65.30	C
ATOM	4890	O	CYS	627	3.926	60.719	7.463	1.00 65.30	O
ATOM	4891	N	ALA	628	3.443	61.270	9.602	1.00 51.50	N
ATOM	4892	CA	ALA	628	4.669	60.708	10.095	1.00 51.50	C
ATOM	4893	CB	ALA	628	4.751	60.721	11.630	1.00 51.50	C
ATOM	4894	C	ALA	628	4.697	59.289	9.654	1.00 51.50	C
ATOM	4895	O	ALA	628	5.688	58.817	9.100	1.00 51.50	O
ATOM	4896	N	ILE	629	3.560	58.599	9.807	1.00111.39	N
ATOM	4897	CA	ILE	629	3.513	57.221	9.443	1.00111.39	C
ATOM	4898	CB	ILE	629	2.159	56.634	9.701	1.00111.39	C
ATOM	4899	CG1	ILE	629	1.723	56.972	11.137	1.00111.39	C
ATOM	4900	CG2	ILE	629	2.225	55.125	9.409	1.00111.39	C
ATOM	4901	CD1	ILE	629	2.743	56.580	12.202	1.00111.39	C
ATOM	4902	C	ILE	629	3.784	57.122	7.967	1.00111.39	C
ATOM	4903	O	ILE	629	4.575	56.286	7.534	1.00111.39	O
ATOM	4904	N	ILE	630	3.159	57.998	7.150	1.00 98.57	N
ATOM	4905	CA	ILE	630	3.297	57.879	5.721	1.00 98.57	C
ATOM	4906	CB	ILE	630	2.381	58.783	4.928	1.00 98.57	C
ATOM	4907	CG1	ILE	630	2.739	60.274	5.035	1.00 98.57	C
ATOM	4908	CG2	ILE	630	0.949	58.475	5.391	1.00 98.57	C
ATOM	4909	CD1	ILE	630	3.897	60.694	4.129	1.00 98.57	C
ATOM	4910	C	ILE	630	4.716	58.115	5.311	1.00 98.57	C
ATOM	4911	O	ILE	630	5.245	57.394	4.464	1.00 98.57	O
ATOM	4912	N	ASN	631	5.384	59.112	5.925	1.00 61.63	N
ATOM	4913	CA	ASN	631	6.730	59.432	5.548	1.00 61.63	C
ATOM	4914	CB	ASN	631	7.351	60.524	6.433	1.00 61.63	C
ATOM	4915	CG	ASN	631	8.631	61.002	5.762	1.00 61.63	C
ATOM	4916	OD1	ASN	631	9.346	60.228	5.128	1.00 61.63	O
ATOM	4917	ND2	ASN	631	8.926	62.323	5.900	1.00 61.63	N
ATOM	4918	C	ASN	631	7.532	58.197	5.730	1.00 61.63	C
ATOM	4919	O	ASN	631	8.372	57.848	4.898	1.00 61.63	O
ATOM	4920	N	GLY	632	7.253	57.475	6.825	1.00 52.71	N
ATOM	4921	CA	GLY	632	8.021	56.308	7.066	1.00 52.71	C
ATOM	4922	C	GLY	632	7.849	55.353	5.931	1.00 52.71	C
ATOM	4923	O	GLY	632	8.827	54.862	5.372	1.00 52.71	O
ATOM	4924	N	GLY	633	6.599	55.105	5.512	1.00 43.66	N
ATOM	4925	CA	GLY	633	6.359	54.154	4.463	1.00 43.66	C
ATOM	4926	C	GLY	633	7.066	54.627	3.236	1.00 43.66	C
ATOM	4927	O	GLY	633	7.577	53.834	2.444	1.00 43.66	O
ATOM	4928	N	LEU	634	7.132	55.955	3.064	1.00 76.21	N
ATOM	4929	CA	LEU	634	7.687	56.515	1.873	1.00 76.21	C
ATOM	4930	CB	LEU	634	7.718	58.053	1.929	1.00 76.21	C
ATOM	4931	CG	LEU	634	8.277	58.727	0.663	1.00 76.21	C
ATOM	4932	CD1	LEU	634	7.412	58.409	-0.567	1.00 76.21	C
ATOM	4933	CD2	LEU	634	8.458	60.238	0.877	1.00 76.21	C
ATOM	4934	C	LEU	634	9.091	56.001	1.715	1.00 76.21	C
ATOM	4935	O	LEU	634	9.508	55.678	0.601	1.00 76.21	O
ATOM	4936	N	GLN	635	9.858	55.907	2.823	1.00106.75	N
ATOM	4937	CA	GLN	635	11.224	55.468	2.717	1.00106.75	C
ATOM	4938	CB	GLN	635	12.023	55.665	4.020	1.00106.75	C
ATOM	4939	CG	GLN	635	13.501	55.295	3.894	1.00106.75	C
ATOM	4940	CD	GLN	635	14.233	56.480	3.283	1.00106.75	C
ATOM	4941	OE1	GLN	635	15.427	56.409	2.998	1.00106.75	O
ATOM	4942	NE2	GLN	635	13.499	57.607	3.081	1.00106.75	N
ATOM	4943	C	GLN	635	11.317	54.035	2.265	1.00106.75	C
ATOM	4944	O	GLN	635	11.971	53.777	1.254	1.00106.75	O
ATOM	4945	N	PRO	636	10.671	53.075	2.885	1.00111.94	N
ATOM	4946	CA	PRO	636	10.844	51.763	2.332	1.00111.94	C
ATOM	4947	CD	PRO	636	10.656	53.004	4.335	1.00111.94	C
ATOM	4948	CB	PRO	636	10.340	50.792	3.389	1.00111.94	C
ATOM	4949	CG	PRO	636	10.749	51.516	4.686	1.00111.94	C
ATOM	4950	C	PRO	636	10.278	51.641	0.950	1.00111.94	C
ATOM	4951	O	PRO	636	10.717	50.779	0.188	1.00111.94	O

ATOM	4952	N	ALA	637	9.334	52.521	0.587	1.00	43.95	N
ATOM	4953	CA	ALA	637	8.748	52.467	-0.724	1.00	43.95	C
ATOM	4954	CB	ALA	637	7.712	53.579	-0.954	1.00	43.95	C
ATOM	4955	C	ALA	637	9.842	52.657	-1.726	1.00	43.95	C
ATOM	4956	O	ALA	637	9.897	51.974	-2.749	1.00	43.95	O
ATOM	4957	N	PHE	638	10.768	53.583	-1.426	1.00	80.92	N
ATOM	4958	CA	PHE	638	11.853	53.879	-2.313	1.00	80.92	C
ATOM	4959	CB	PHE	638	12.780	54.984	-1.788	1.00	80.92	C
ATOM	4960	CG	PHE	638	13.976	54.965	-2.673	1.00	80.92	C
ATOM	4961	CD1	PHE	638	13.960	55.583	-3.900	1.00	80.92	C
ATOM	4962	CD2	PHE	638	15.119	54.317	-2.265	1.00	80.92	C
ATOM	4963	CE1	PHE	638	15.073	55.553	-4.708	1.00	80.92	C
ATOM	4964	CE2	PHE	638	16.234	54.284	-3.068	1.00	80.92	C
ATOM	4965	CZ	PHE	638	16.211	54.903	-4.294	1.00	80.92	C
ATOM	4966	C	PHE	638	12.676	52.665	-2.482	1.00	80.92	C
ATOM	4967	O	PHE	638	13.174	52.378	-3.572	1.00	80.92	O
ATOM	4968	N	ALA	639	12.825	51.912	-1.387	1.00	58.56	N
ATOM	4969	CA	ALA	639	13.646	50.753	-1.437	1.00	58.56	C
ATOM	4970	CB	ALA	639	13.569	50.005	-0.110	1.00	58.56	C
ATOM	4971	C	ALA	639	13.123	49.860	-2.541	1.00	58.56	C
ATOM	4972	O	ALA	639	13.898	49.329	-3.336	1.00	58.56	O
ATOM	4973	N	ILE	640	11.787	49.694	-2.631	1.00	115.59	N
ATOM	4974	CA	ILE	640	11.148	48.863	-3.627	1.00	115.59	C
ATOM	4975	CB	ILE	640	9.693	48.638	-3.336	1.00	115.59	C
ATOM	4976	CG1	ILE	640	9.512	47.905	-1.995	1.00	115.59	C
ATOM	4977	CG2	ILE	640	9.090	47.883	-4.532	1.00	115.59	C
ATOM	4978	CD1	ILE	640	10.151	46.519	-1.970	1.00	115.59	C
ATOM	4979	C	ILE	640	11.210	49.431	-5.018	1.00	115.59	C
ATOM	4980	O	ILE	640	11.510	48.713	-5.973	1.00	115.59	O
ATOM	4981	N	ILE	641	10.930	50.739	-5.177	1.00	129.16	N
ATOM	4982	CA	ILE	641	10.851	51.294	-6.503	1.00	129.16	C
ATOM	4983	CB	ILE	641	10.671	52.783	-6.529	1.00	129.16	C
ATOM	4984	CG1	ILE	641	9.227	53.202	-6.251	1.00	129.16	C
ATOM	4985	CG2	ILE	641	11.255	53.304	-7.847	1.00	129.16	C
ATOM	4986	CD1	ILE	641	9.067	54.718	-6.270	1.00	129.16	C
ATOM	4987	C	ILE	641	12.146	51.079	-7.198	1.00	129.16	C
ATOM	4988	O	ILE	641	12.181	50.708	-8.371	1.00	129.16	O
ATOM	4989	N	PHE	642	13.245	51.349	-6.480	1.00	111.95	N
ATOM	4990	CA	PHE	642	14.557	51.191	-7.025	1.00	111.95	C
ATOM	4991	CB	PHE	642	15.629	51.670	-6.028	1.00	111.95	C
ATOM	4992	CG	PHE	642	16.964	51.145	-6.434	1.00	111.95	C
ATOM	4993	CD1	PHE	642	17.774	51.836	-7.304	1.00	111.95	C
ATOM	4994	CD2	PHE	642	17.406	49.941	-5.931	1.00	111.95	C
ATOM	4995	CE1	PHE	642	19.003	51.333	-7.663	1.00	111.95	C
ATOM	4996	CE2	PHE	642	18.633	49.434	-6.286	1.00	111.95	C
ATOM	4997	CZ	PHE	642	19.436	50.132	-7.155	1.00	111.95	C
ATOM	4998	C	PHE	642	14.816	49.760	-7.338	1.00	111.95	C
ATOM	4999	O	PHE	642	15.196	49.424	-8.459	1.00	111.95	O
ATOM	5000	N	SER	643	14.550	48.876	-6.361	1.00	60.77	N
ATOM	5001	CA	SER	643	14.856	47.491	-6.536	1.00	60.77	C
ATOM	5002	CB	SER	643	14.431	46.642	-5.321	1.00	60.77	C
ATOM	5003	OG	SER	643	13.035	46.765	-5.093	1.00	60.77	O
ATOM	5004	C	SER	643	14.113	47.017	-7.740	1.00	60.77	C
ATOM	5005	O	SER	643	14.588	46.147	-8.468	1.00	60.77	O
ATOM	5006	N	LYS	644	12.919	47.586	-7.983	1.00	56.96	N
ATOM	5007	CA	LYS	644	12.154	47.170	-9.119	1.00	56.96	C
ATOM	5008	CB	LYS	644	10.745	47.782	-9.161	1.00	56.96	C
ATOM	5009	CG	LYS	644	9.930	47.319	-10.372	1.00	56.96	C
ATOM	5010	CD	LYS	644	8.434	47.622	-10.262	1.00	56.96	C
ATOM	5011	CE	LYS	644	7.628	47.167	-11.481	1.00	56.96	C
ATOM	5012	NZ	LYS	644	6.194	47.479	-11.287	1.00	56.96	N
ATOM	5013	C	LYS	644	12.841	47.552	-10.392	1.00	56.96	C
ATOM	5014	O	LYS	644	13.013	46.710	-11.270	1.00	56.96	O
ATOM	5015	N	ILE	645	13.304	48.813	-10.515	1.00	113.04	N
ATOM	5016	CA	ILE	645	13.832	49.238	-11.781	1.00	113.04	C
ATOM	5017	CB	ILE	645	14.237	50.690	-11.808	1.00	113.04	C
ATOM	5018	CG1	ILE	645	14.657	51.094	-13.231	1.00	113.04	C
ATOM	5019	CG2	ILE	645	15.305	50.954	-10.734	1.00	113.04	C
ATOM	5020	CD1	ILE	645	14.805	52.604	-13.415	1.00	113.04	C
ATOM	5021	C	ILE	645	15.007	48.406	-12.144	1.00	113.04	C
ATOM	5022	O	ILE	645	15.040	47.823	-13.226	1.00	113.04	O
ATOM	5023	N	ILE	646	15.969	48.259	-11.222	1.00	135.58	N
ATOM	5024	CA	ILE	646	17.143	47.519	-11.545	1.00	135.58	C
ATOM	5025	CB	ILE	646	18.124	47.461	-10.403	1.00	135.58	C

ATOM	5026	CG1	ILE	646	19.417	46.758	-10.842	1.00135.58	C
ATOM	5027	CG2	ILE	646	17.442	46.833	-9.176	1.00135.58	C
ATOM	5028	CD1	ILE	646	20.547	46.889	-9.821	1.00135.58	C
ATOM	5029	C	ILE	646	16.705	46.141	-11.884	1.00135.58	C
ATOM	5030	O	ILE	646	17.083	45.629	-12.929	1.00135.58	O
ATOM	5031	N	GLY	647	15.815	45.538	-11.078	1.00 57.27	N
ATOM	5032	CA	GLY	647	15.462	44.177	-11.353	1.00 57.27	C
ATOM	5033	C	GLY	647	14.840	44.061	-12.710	1.00 57.27	C
ATOM	5034	O	GLY	647	15.242	43.253	-13.546	1.00 57.27	O
ATOM	5035	N	VAL	648	13.870	44.934	-12.983	1.00119.45	N
ATOM	5036	CA	VAL	648	13.098	44.902	-14.184	1.00119.45	C
ATOM	5037	CB	VAL	648	11.966	45.882	-14.122	1.00119.45	C
ATOM	5038	CG1	VAL	648	11.177	45.797	-15.425	1.00119.45	C
ATOM	5039	CG2	VAL	648	11.109	45.569	-12.885	1.00119.45	C
ATOM	5040	C	VAL	648	13.995	45.223	-15.353	1.00119.45	C
ATOM	5041	O	VAL	648	13.584	45.133	-16.506	1.00119.45	O
ATOM	5042	N	PHE	649	15.148	45.847	-15.090	1.00199.14	N
ATOM	5043	CA	PHE	649	16.077	46.145	-16.143	1.00199.14	C
ATOM	5044	CB	PHE	649	16.755	47.510	-15.927	1.00199.14	C
ATOM	5045	CG	PHE	649	17.009	48.081	-17.279	1.00199.14	C
ATOM	5046	CD1	PHE	649	18.022	47.612	-18.077	1.00199.14	C
ATOM	5047	CD2	PHE	649	16.215	49.105	-17.745	1.00199.14	C
ATOM	5048	CE1	PHE	649	18.227	48.153	-19.321	1.00199.14	C
ATOM	5049	CE2	PHE	649	16.421	49.651	-18.989	1.00199.14	C
ATOM	5050	CZ	PHE	649	17.432	49.172	-19.783	1.00199.14	C
ATOM	5051	C	PHE	649	17.158	45.103	-16.295	1.00199.14	C
ATOM	5052	O	PHE	649	17.785	44.986	-17.346	1.00199.14	O
ATOM	5053	N	THR	650	17.504	44.435	-15.179	1.00 83.00	N
ATOM	5054	CA	THR	650	18.550	43.456	-15.071	1.00 83.00	C
ATOM	5055	CB	THR	650	18.923	43.130	-13.652	1.00 83.00	C
ATOM	5056	OG1	THR	650	17.787	42.670	-12.937	1.00 83.00	O
ATOM	5057	CG2	THR	650	19.521	44.381	-12.986	1.00 83.00	C
ATOM	5058	C	THR	650	18.144	42.182	-15.733	1.00 83.00	C
ATOM	5059	O	THR	650	18.997	41.421	-16.194	1.00 83.00	O
ATOM	5060	N	ARG	651	16.835	41.864	-15.700	1.00198.88	N
ATOM	5061	CA	ARG	651	16.392	40.680	-16.382	1.00198.88	C
ATOM	5062	CB	ARG	651	16.554	39.423	-15.518	1.00198.88	C
ATOM	5063	CG	ARG	651	15.887	39.544	-14.149	1.00198.88	C
ATOM	5064	CD	ARG	651	16.275	38.406	-13.208	1.00198.88	C
ATOM	5065	NE	ARG	651	17.758	38.282	-13.280	1.00198.88	N
ATOM	5066	CZ	ARG	651	18.552	39.105	-12.536	1.00198.88	C
ATOM	5067	NH1	ARG	651	17.988	40.041	-11.719	1.00198.88	N
ATOM	5068	NH2	ARG	651	19.910	38.996	-12.615	1.00198.88	N
ATOM	5069	C	ARG	651	14.951	40.837	-16.772	1.00198.88	C
ATOM	5070	O	ARG	651	14.081	40.950	-15.909	1.00198.88	O
ATOM	5071	N	ILE	652	14.659	40.867	-18.097	1.00154.62	N
ATOM	5072	CA	ILE	652	13.290	41.031	-18.516	1.00154.62	C
ATOM	5073	CB	ILE	652	12.686	42.309	-17.996	1.00154.62	C
ATOM	5074	CG1	ILE	652	11.149	42.291	-18.090	1.00154.62	C
ATOM	5075	CG2	ILE	652	13.346	43.474	-18.752	1.00154.62	C
ATOM	5076	CD1	ILE	652	10.492	41.248	-17.187	1.00154.62	C
ATOM	5077	C	ILE	652	13.225	41.055	-20.027	1.00154.62	C
ATOM	5078	O	ILE	652	14.223	40.817	-20.706	1.00154.62	O
ATOM	5079	N	ASP	653	12.018	41.325	-20.588	1.00105.23	N
ATOM	5080	CA	ASP	653	11.799	41.423	-22.010	1.00105.23	C
ATOM	5081	CB	ASP	653	10.318	41.388	-22.426	1.00105.23	C
ATOM	5082	CG	ASP	653	9.642	42.636	-21.879	1.00105.23	C
ATOM	5083	OD1	ASP	653	10.091	43.137	-20.814	1.00105.23	O
ATOM	5084	OD2	ASP	653	8.670	43.110	-22.525	1.00105.23	O
ATOM	5085	C	ASP	653	12.375	42.709	-22.531	1.00105.23	C
ATOM	5086	O	ASP	653	12.311	43.752	-21.881	1.00105.23	O
ATOM	5087	N	ASP	654	12.934	42.656	-23.758	1.00 87.48	N
ATOM	5088	CA	ASP	654	13.619	43.765	-24.360	1.00 87.48	C
ATOM	5089	CB	ASP	654	14.314	43.381	-25.682	1.00 87.48	C
ATOM	5090	CG	ASP	654	15.219	44.525	-26.121	1.00 87.48	C
ATOM	5091	OD1	ASP	654	15.297	45.543	-25.383	1.00 87.48	O
ATOM	5092	OD2	ASP	654	15.847	44.394	-27.205	1.00 87.48	O
ATOM	5093	C	ASP	654	12.697	44.912	-24.633	1.00 87.48	C
ATOM	5094	O	ASP	654	13.043	46.054	-24.330	1.00 87.48	O
ATOM	5095	N	PRO	655	11.540	44.686	-25.187	1.00 92.99	N
ATOM	5096	CA	PRO	655	10.683	45.801	-25.469	1.00 92.99	C
ATOM	5097	CD	PRO	655	11.327	43.590	-26.116	1.00 92.99	C
ATOM	5098	CB	PRO	655	9.725	45.341	-26.571	1.00 92.99	C
ATOM	5099	CG	PRO	655	9.895	43.813	-26.625	1.00 92.99	C

ATOM	5100	C	PRO	655	10.012	46.282	-24.228	1.00	92.99	C
ATOM	5101	O	PRO	655	9.819	45.496	-23.302	1.00	92.99	O
ATOM	5102	N	GLU	656	9.652	47.575	-24.205	1.00	123.58	N
ATOM	5103	CA	GLU	656	8.955	48.168	-23.107	1.00	123.58	C
ATOM	5104	CB	GLU	656	7.744	47.320	-22.698	1.00	123.58	C
ATOM	5105	CG	GLU	656	6.930	47.915	-21.557	1.00	123.58	C
ATOM	5106	CD	GLU	656	5.648	47.106	-21.450	1.00	123.58	C
ATOM	5107	OE1	GLU	656	5.704	45.860	-21.630	1.00	123.58	O
ATOM	5108	OE2	GLU	656	4.588	47.734	-21.195	1.00	123.58	O
ATOM	5109	C	GLU	656	9.867	48.302	-21.929	1.00	123.58	C
ATOM	5110	O	GLU	656	9.450	48.756	-20.865	1.00	123.58	O
ATOM	5111	N	THR	657	11.160	47.986	-22.106	1.00	116.82	N
ATOM	5112	CA	THR	657	12.102	48.160	-21.045	1.00	116.82	C
ATOM	5113	CB	THR	657	13.473	47.698	-21.428	1.00	116.82	C
ATOM	5114	OG1	THR	657	13.445	46.328	-21.796	1.00	116.82	O
ATOM	5115	CG2	THR	657	14.404	47.895	-20.230	1.00	116.82	C
ATOM	5116	C	THR	657	12.167	49.631	-20.837	1.00	116.82	C
ATOM	5117	O	THR	657	12.389	50.116	-19.730	1.00	116.82	O
ATOM	5118	N	LYS	658	12.003	50.376	-21.942	1.00	105.97	N
ATOM	5119	CA	LYS	658	12.035	51.806	-21.924	1.00	105.97	C
ATOM	5120	CB	LYS	658	11.840	52.398	-23.328	1.00	105.97	C
ATOM	5121	CG	LYS	658	12.959	52.052	-24.310	1.00	105.97	C
ATOM	5122	CD	LYS	658	12.563	52.257	-25.774	1.00	105.97	C
ATOM	5123	CE	LYS	658	11.906	53.610	-26.056	1.00	105.97	C
ATOM	5124	NZ	LYS	658	11.568	53.719	-27.493	1.00	105.97	N
ATOM	5125	C	LYS	658	10.897	52.296	-21.091	1.00	105.97	C
ATOM	5126	O	LYS	658	11.070	53.164	-20.239	1.00	105.97	O
ATOM	5127	N	ARG	659	9.691	51.751	-21.328	1.00	44.61	N
ATOM	5128	CA	ARG	659	8.526	52.174	-20.611	1.00	44.61	C
ATOM	5129	CB	ARG	659	7.232	51.541	-21.145	1.00	44.61	C
ATOM	5130	CG	ARG	659	5.974	52.090	-20.471	1.00	44.61	C
ATOM	5131	CD	ARG	659	4.682	51.419	-20.936	1.00	44.61	C
ATOM	5132	NE	ARG	659	3.556	52.095	-20.232	1.00	44.61	N
ATOM	5133	CZ	ARG	659	3.185	51.689	-18.982	1.00	44.61	C
ATOM	5134	NH1	ARG	659	3.848	50.664	-18.372	1.00	44.61	N
ATOM	5135	NH2	ARG	659	2.154	52.314	-18.341	1.00	44.61	N
ATOM	5136	C	ARG	659	8.669	51.756	-19.191	1.00	44.61	C
ATOM	5137	O	ARG	659	8.313	52.495	-18.276	1.00	44.61	O
ATOM	5138	N	GLN	660	9.186	50.538	-18.968	1.00	133.20	N
ATOM	5139	CA	GLN	660	9.292	50.075	-17.625	1.00	133.20	C
ATOM	5140	CB	GLN	660	9.785	48.632	-17.526	1.00	133.20	C
ATOM	5141	CG	GLN	660	9.436	48.030	-16.174	1.00	133.20	C
ATOM	5142	CD	GLN	660	7.976	47.602	-16.214	1.00	133.20	C
ATOM	5143	OE1	GLN	660	7.435	47.105	-15.227	1.00	133.20	O
ATOM	5144	NE2	GLN	660	7.320	47.789	-17.392	1.00	133.20	N
ATOM	5145	C	GLN	660	10.272	50.957	-16.935	1.00	133.20	C
ATOM	5146	O	GLN	660	10.040	51.389	-15.806	1.00	133.20	O
ATOM	5147	N	ASN	661	11.407	51.258	-17.600	1.00	158.40	N
ATOM	5148	CA	ASN	661	12.322	52.110	-16.920	1.00	158.40	C
ATOM	5149	CB	ASN	661	13.744	52.204	-17.535	1.00	158.40	C
ATOM	5150	CG	ASN	661	13.798	52.678	-18.982	1.00	158.40	C
ATOM	5151	OD1	ASN	661	13.358	53.775	-19.318	1.00	158.40	O
ATOM	5152	ND2	ASN	661	14.411	51.838	-19.860	1.00	158.40	N
ATOM	5153	C	ASN	661	11.690	53.445	-16.724	1.00	158.40	C
ATOM	5154	O	ASN	661	11.448	53.817	-15.583	1.00	158.40	O
ATOM	5155	N	SER	662	11.240	54.104	-17.812	1.00	58.36	N
ATOM	5156	CA	SER	662	10.717	55.443	-17.762	1.00	58.36	C
ATOM	5157	CB	SER	662	10.082	55.884	-19.092	1.00	58.36	C
ATOM	5158	OG	SER	662	11.071	55.946	-20.110	1.00	58.36	O
ATOM	5159	C	SER	662	9.651	55.495	-16.720	1.00	58.36	C
ATOM	5160	O	SER	662	9.560	56.467	-15.973	1.00	58.36	O
ATOM	5161	N	ASN	663	8.832	54.435	-16.618	1.00	81.90	N
ATOM	5162	CA	ASN	663	7.809	54.448	-15.617	1.00	81.90	C
ATOM	5163	CB	ASN	663	6.893	53.215	-15.667	1.00	81.90	C
ATOM	5164	CG	ASN	663	5.960	53.292	-14.462	1.00	81.90	C
ATOM	5165	OD1	ASN	663	6.335	52.934	-13.346	1.00	81.90	O
ATOM	5166	ND2	ASN	663	4.712	53.780	-14.688	1.00	81.90	N
ATOM	5167	C	ASN	663	8.411	54.472	-14.251	1.00	81.90	C
ATOM	5168	O	ASN	663	8.224	55.430	-13.505	1.00	81.90	O
ATOM	5169	N	LEU	664	9.232	53.458	-13.916	1.00	82.03	N
ATOM	5170	CA	LEU	664	9.737	53.366	-12.573	1.00	82.03	C
ATOM	5171	CB	LEU	664	10.619	52.132	-12.338	1.00	82.03	C
ATOM	5172	CG	LEU	664	9.804	50.830	-12.293	1.00	82.03	C
ATOM	5173	CD1	LEU	664	10.709	49.610	-12.061	1.00	82.03	C

ATOM	5174	CD2	LEU	664	8.673	50.929	-11.252	1.00	82.03	C
ATOM	5175	C	LEU	664	10.532	54.589	-12.289	1.00	82.03	C
ATOM	5176	O	LEU	664	10.534	55.087	-11.166	1.00	82.03	O
ATOM	5177	N	PHE	665	11.230	55.108	-13.310	1.00	126.56	N
ATOM	5178	CA	PHE	665	12.007	56.294	-13.129	1.00	126.56	C
ATOM	5179	CB	PHE	665	12.680	56.652	-14.469	1.00	126.56	C
ATOM	5180	CG	PHE	665	12.529	58.086	-14.834	1.00	126.56	C
ATOM	5181	CD1	PHE	665	13.370	59.055	-14.344	1.00	126.56	C
ATOM	5182	CD2	PHE	665	11.519	58.443	-15.699	1.00	126.56	C
ATOM	5183	CE1	PHE	665	13.194	60.365	-14.720	1.00	126.56	C
ATOM	5184	CE2	PHE	665	11.340	59.750	-16.078	1.00	126.56	C
ATOM	5185	CZ	PHE	665	12.183	60.713	-15.585	1.00	126.56	C
ATOM	5186	C	PHE	665	11.133	57.398	-12.610	1.00	126.56	C
ATOM	5187	O	PHE	665	11.314	57.852	-11.482	1.00	126.56	O
ATOM	5188	N	SER	666	10.086	57.786	-13.356	1.00	41.28	N
ATOM	5189	CA	SER	666	9.258	58.878	-12.925	1.00	41.28	C
ATOM	5190	CB	SER	666	8.123	59.191	-13.914	1.00	41.28	C
ATOM	5191	OG	SER	666	7.344	60.275	-13.430	1.00	41.28	O
ATOM	5192	C	SER	666	8.615	58.505	-11.634	1.00	41.28	C
ATOM	5193	O	SER	666	8.468	59.328	-10.733	1.00	41.28	O
ATOM	5194	N	LEU	667	8.254	57.222	-11.498	1.00	116.92	N
ATOM	5195	CA	LEU	667	7.544	56.773	-10.344	1.00	116.92	C
ATOM	5196	CB	LEU	667	7.237	55.268	-10.443	1.00	116.92	C
ATOM	5197	CG	LEU	667	6.242	54.713	-9.407	1.00	116.92	C
ATOM	5198	CD1	LEU	667	6.017	53.217	-9.633	1.00	116.92	C
ATOM	5199	CD2	LEU	667	6.664	55.002	-7.964	1.00	116.92	C
ATOM	5200	C	LEU	667	8.407	57.048	-9.160	1.00	116.92	C
ATOM	5201	O	LEU	667	7.930	57.513	-8.126	1.00	116.92	O
ATOM	5202	N	LEU	668	9.716	56.795	-9.289	1.00	109.93	N
ATOM	5203	CA	LEU	668	10.582	56.996	-8.172	1.00	109.93	C
ATOM	5204	CB	LEU	668	12.018	56.561	-8.509	1.00	109.93	C
ATOM	5205	CG	LEU	668	12.932	56.348	-7.290	1.00	109.93	C
ATOM	5206	CD1	LEU	668	14.339	55.919	-7.732	1.00	109.93	C
ATOM	5207	CD2	LEU	668	12.928	57.552	-6.344	1.00	109.93	C
ATOM	5208	C	LEU	668	10.544	58.464	-7.843	1.00	109.93	C
ATOM	5209	O	LEU	668	10.488	58.853	-6.676	1.00	109.93	O
ATOM	5210	N	PHE	669	10.582	59.331	-8.877	1.00	94.10	N
ATOM	5211	CA	PHE	669	10.567	60.748	-8.652	1.00	94.10	C
ATOM	5212	CB	PHE	669	10.800	61.529	-9.955	1.00	94.10	C
ATOM	5213	CG	PHE	669	10.441	62.951	-9.705	1.00	94.10	C
ATOM	5214	CD1	PHE	669	11.304	63.790	-9.043	1.00	94.10	C
ATOM	5215	CD2	PHE	669	9.221	63.436	-10.114	1.00	94.10	C
ATOM	5216	CE1	PHE	669	10.961	65.100	-8.811	1.00	94.10	C
ATOM	5217	CE2	PHE	669	8.873	64.745	-9.886	1.00	94.10	C
ATOM	5218	CZ	PHE	669	9.746	65.582	-9.234	1.00	94.10	C
ATOM	5219	C	PHE	669	9.283	61.231	-8.056	1.00	94.10	C
ATOM	5220	O	PHE	669	9.258	61.711	-6.927	1.00	94.10	O
ATOM	5221	N	LEU	670	8.158	61.017	-8.756	1.00	134.91	N
ATOM	5222	CA	LEU	670	6.913	61.595	-8.342	1.00	134.91	C
ATOM	5223	CB	LEU	670	5.761	61.250	-9.320	1.00	134.91	C
ATOM	5224	CG	LEU	670	5.449	59.747	-9.531	1.00	134.91	C
ATOM	5225	CD1	LEU	670	4.621	59.146	-8.384	1.00	134.91	C
ATOM	5226	CD2	LEU	670	4.808	59.500	-10.907	1.00	134.91	C
ATOM	5227	C	LEU	670	6.601	61.093	-6.978	1.00	134.91	C
ATOM	5228	O	LEU	670	6.196	61.860	-6.104	1.00	134.91	O
ATOM	5229	N	ALA	671	6.809	59.790	-6.742	1.00	72.96	N
ATOM	5230	CA	ALA	671	6.441	59.326	-5.446	1.00	72.96	C
ATOM	5231	CB	ALA	671	6.573	57.800	-5.310	1.00	72.96	C
ATOM	5232	C	ALA	671	7.307	59.943	-4.396	1.00	72.96	C
ATOM	5233	O	ALA	671	6.839	60.724	-3.575	1.00	72.96	O
ATOM	5234	N	LEU	672	8.628	59.713	-4.465	1.00	105.82	N
ATOM	5235	CA	LEU	672	9.465	60.167	-3.397	1.00	105.82	C
ATOM	5236	CB	LEU	672	10.926	59.766	-3.633	1.00	105.82	C
ATOM	5237	CG	LEU	672	11.901	60.215	-2.535	1.00	105.82	C
ATOM	5238	CD1	LEU	672	11.731	59.402	-1.240	1.00	105.82	C
ATOM	5239	CD2	LEU	672	13.335	60.212	-3.065	1.00	105.82	C
ATOM	5240	C	LEU	672	9.439	61.656	-3.317	1.00	105.82	C
ATOM	5241	O	LEU	672	8.988	62.205	-2.315	1.00	105.82	O
ATOM	5242	N	GLY	673	9.808	62.339	-4.420	1.00	54.33	N
ATOM	5243	CA	GLY	673	10.000	63.751	-4.359	1.00	54.33	C
ATOM	5244	C	GLY	673	8.751	64.429	-3.898	1.00	54.33	C
ATOM	5245	O	GLY	673	8.793	65.237	-2.972	1.00	54.33	O
ATOM	5246	N	ILE	674	7.599	64.113	-4.513	1.00	114.52	N
ATOM	5247	CA	ILE	674	6.406	64.817	-4.146	1.00	114.52	C

ATOM	5248	CB	ILE	674	5.259	64.519	-5.067	1.00114.52	C
ATOM	5249	CG1	ILE	674	5.550	65.043	-6.484	1.00114.52	C
ATOM	5250	CG2	ILE	674	3.985	65.111	-4.440	1.00114.52	C
ATOM	5251	CD1	ILE	674	6.705	64.329	-7.186	1.00114.52	C
ATOM	5252	C	ILE	674	5.954	64.469	-2.765	1.00114.52	C
ATOM	5253	O	ILE	674	5.918	65.343	-1.902	1.00114.52	O
ATOM	5254	N	ILE	675	5.741	63.164	-2.487	1.00 58.16	N
ATOM	5255	CA	ILE	675	5.095	62.746	-1.270	1.00 58.16	C
ATOM	5256	CB	ILE	675	5.064	61.252	-1.106	1.00 58.16	C
ATOM	5257	CG1	ILE	675	4.211	60.599	-2.207	1.00 58.16	C
ATOM	5258	CG2	ILE	675	4.586	60.940	0.322	1.00 58.16	C
ATOM	5259	CD1	ILE	675	4.351	59.078	-2.262	1.00 58.16	C
ATOM	5260	C	ILE	675	5.854	63.292	-0.110	1.00 58.16	C
ATOM	5261	O	ILE	675	5.257	63.832	0.820	1.00 58.16	O
ATOM	5262	N	SER	676	7.193	63.193	-0.145	1.00123.08	N
ATOM	5263	CA	SER	676	7.963	63.659	0.970	1.00123.08	C
ATOM	5264	CB	SER	676	9.442	63.240	0.926	1.00123.08	C
ATOM	5265	OG	SER	676	10.135	63.941	-0.091	1.00123.08	O
ATOM	5266	C	SER	676	7.898	65.147	1.091	1.00123.08	C
ATOM	5267	O	SER	676	7.661	65.643	2.190	1.00123.08	O
ATOM	5268	N	PHE	677	8.035	65.889	-0.034	1.00 77.03	N
ATOM	5269	CA	PHE	677	8.039	67.328	-0.004	1.00 77.03	C
ATOM	5270	CB	PHE	677	8.012	67.948	-1.410	1.00 77.03	C
ATOM	5271	CG	PHE	677	7.832	69.418	-1.258	1.00 77.03	C
ATOM	5272	CD1	PHE	677	8.912	70.236	-1.029	1.00 77.03	C
ATOM	5273	CD2	PHE	677	6.577	69.978	-1.331	1.00 77.03	C
ATOM	5274	CE1	PHE	677	8.742	71.592	-0.885	1.00 77.03	C
ATOM	5275	CE2	PHE	677	6.401	71.334	-1.189	1.00 77.03	C
ATOM	5276	CZ	PHE	677	7.487	72.145	-0.966	1.00 77.03	C
ATOM	5277	C	PHE	677	6.784	67.705	0.687	1.00 77.03	C
ATOM	5278	O	PHE	677	6.764	68.598	1.534	1.00 77.03	O
ATOM	5279	N	ILE	678	5.708	66.980	0.351	1.00126.07	N
ATOM	5280	CA	ILE	678	4.469	67.202	1.018	1.00126.07	C
ATOM	5281	CB	ILE	678	3.360	66.342	0.486	1.00126.07	C
ATOM	5282	CG1	ILE	678	3.024	66.696	-0.972	1.00126.07	C
ATOM	5283	CG2	ILE	678	2.172	66.476	1.453	1.00126.07	C
ATOM	5284	CD1	ILE	678	2.503	68.121	-1.151	1.00126.07	C
ATOM	5285	C	ILE	678	4.619	66.829	2.461	1.00126.07	C
ATOM	5286	O	ILE	678	4.439	67.686	3.322	1.00126.07	O
ATOM	5287	N	THR	679	5.094	65.593	2.754	1.00138.41	N
ATOM	5288	CA	THR	679	5.063	65.072	4.098	1.00138.41	C
ATOM	5289	CB	THR	679	5.676	63.701	4.251	1.00138.41	C
ATOM	5290	OG1	THR	679	5.343	63.166	5.524	1.00138.41	O
ATOM	5291	CG2	THR	679	7.204	63.777	4.121	1.00138.41	C
ATOM	5292	C	THR	679	5.752	66.015	5.035	1.00138.41	C
ATOM	5293	O	THR	679	5.229	66.296	6.114	1.00138.41	O
ATOM	5294	N	PHE	680	6.932	66.540	4.650	1.00 90.01	N
ATOM	5295	CA	PHE	680	7.654	67.445	5.504	1.00 90.01	C
ATOM	5296	CB	PHE	680	9.013	67.849	4.909	1.00 90.01	C
ATOM	5297	CG	PHE	680	9.893	66.649	4.933	1.00 90.01	C
ATOM	5298	CD1	PHE	680	9.810	65.694	3.947	1.00 90.01	C
ATOM	5299	CD2	PHE	680	10.807	66.479	5.947	1.00 90.01	C
ATOM	5300	CE1	PHE	680	10.624	64.587	3.973	1.00 90.01	C
ATOM	5301	CE2	PHE	680	11.623	65.373	5.978	1.00 90.01	C
ATOM	5302	CZ	PHE	680	11.534	64.423	4.989	1.00 90.01	C
ATOM	5303	C	PHE	680	6.865	68.692	5.694	1.00 90.01	C
ATOM	5304	O	PHE	680	6.507	69.014	6.823	1.00 90.01	O
ATOM	5305	N	PHE	681	6.467	69.343	4.579	1.00 71.64	N
ATOM	5306	CA	PHE	681	5.836	70.633	4.612	1.00 71.64	C
ATOM	5307	CB	PHE	681	5.315	71.065	3.230	1.00 71.64	C
ATOM	5308	CG	PHE	681	4.683	72.405	3.381	1.00 71.64	C
ATOM	5309	CD1	PHE	681	5.464	73.535	3.442	1.00 71.64	C
ATOM	5310	CD2	PHE	681	3.315	72.536	3.452	1.00 71.64	C
ATOM	5311	CE1	PHE	681	4.889	74.776	3.580	1.00 71.64	C
ATOM	5312	CE2	PHE	681	2.735	73.776	3.589	1.00 71.64	C
ATOM	5313	CZ	PHE	681	3.523	74.900	3.654	1.00 71.64	C
ATOM	5314	C	PHE	681	4.668	70.557	5.535	1.00 71.64	C
ATOM	5315	O	PHE	681	4.513	71.412	6.403	1.00 71.64	O
ATOM	5316	N	LEU	682	3.837	69.515	5.378	1.00143.00	N
ATOM	5317	CA	LEU	682	2.674	69.318	6.196	1.00143.00	C
ATOM	5318	CB	LEU	682	1.914	68.059	5.721	1.00143.00	C
ATOM	5319	CG	LEU	682	0.713	67.590	6.571	1.00143.00	C
ATOM	5320	CD1	LEU	682	1.131	66.905	7.884	1.00143.00	C
ATOM	5321	CD2	LEU	682	-0.282	68.735	6.788	1.00143.00	C

ATOM	5322	C	LEU	682	3.054	69.108	7.632	1.00	143.00	C
ATOM	5323	O	LEU	682	2.652	69.879	8.500	1.00	143.00	O
ATOM	5324	N	GLN	683	3.896	68.092	7.909	1.00	74.85	N
ATOM	5325	CA	GLN	683	4.201	67.707	9.263	1.00	74.85	C
ATOM	5326	CB	GLN	683	5.117	66.469	9.311	1.00	74.85	C
ATOM	5327	CG	GLN	683	6.500	66.690	8.690	1.00	74.85	C
ATOM	5328	CD	GLN	683	7.139	65.324	8.463	1.00	74.85	C
ATOM	5329	OE1	GLN	683	8.214	65.027	8.980	1.00	74.85	O
ATOM	5330	NE2	GLN	683	6.458	64.469	7.655	1.00	74.85	N
ATOM	5331	C	GLN	683	4.875	68.833	9.967	1.00	74.85	C
ATOM	5332	O	GLN	683	4.525	69.162	11.098	1.00	74.85	O
ATOM	5333	N	GLY	684	5.837	69.481	9.295	1.00	38.55	N
ATOM	5334	CA	GLY	684	6.579	70.556	9.877	1.00	38.55	C
ATOM	5335	C	GLY	684	5.613	71.648	10.190	1.00	38.55	C
ATOM	5336	O	GLY	684	5.787	72.381	11.161	1.00	38.55	O
ATOM	5337	N	PHE	685	4.592	71.822	9.331	1.00	67.63	N
ATOM	5338	CA	PHE	685	3.632	72.860	9.552	1.00	67.63	C
ATOM	5339	CB	PHE	685	2.602	72.948	8.413	1.00	67.63	C
ATOM	5340	CG	PHE	685	1.786	74.177	8.620	1.00	67.63	C
ATOM	5341	CD1	PHE	685	2.196	75.369	8.072	1.00	67.63	C
ATOM	5342	CD2	PHE	685	0.624	74.149	9.356	1.00	67.63	C
ATOM	5343	CE1	PHE	685	1.462	76.517	8.249	1.00	67.63	C
ATOM	5344	CE2	PHE	685	-0.115	75.295	9.535	1.00	67.63	C
ATOM	5345	CZ	PHE	685	0.301	76.483	8.982	1.00	67.63	C
ATOM	5346	C	PHE	685	2.886	72.605	10.829	1.00	67.63	C
ATOM	5347	O	PHE	685	2.861	73.461	11.708	1.00	67.63	O
ATOM	5348	N	THR	686	2.270	71.411	10.967	1.00	74.89	N
ATOM	5349	CA	THR	686	1.456	71.092	12.111	1.00	74.89	C
ATOM	5350	CB	THR	686	0.722	69.792	11.941	1.00	74.89	C
ATOM	5351	OG1	THR	686	1.645	68.718	11.837	1.00	74.89	O
ATOM	5352	CG2	THR	686	-0.138	69.873	10.669	1.00	74.89	C
ATOM	5353	C	THR	686	2.252	70.975	13.385	1.00	74.89	C
ATOM	5354	O	THR	686	1.981	71.694	14.345	1.00	74.89	O
ATOM	5355	N	PHE	687	3.282	70.098	13.426	1.00	93.46	N
ATOM	5356	CA	PHE	687	3.996	69.869	14.659	1.00	93.46	C
ATOM	5357	CB	PHE	687	4.965	68.654	14.691	1.00	93.46	C
ATOM	5358	CG	PHE	687	6.213	68.824	13.881	1.00	93.46	C
ATOM	5359	CD1	PHE	687	7.216	69.675	14.289	1.00	93.46	C
ATOM	5360	CD2	PHE	687	6.419	68.077	12.744	1.00	93.46	C
ATOM	5361	CE1	PHE	687	8.371	69.818	13.557	1.00	93.46	C
ATOM	5362	CE2	PHE	687	7.572	68.213	12.005	1.00	93.46	C
ATOM	5363	CZ	PHE	687	8.550	69.089	12.407	1.00	93.46	C
ATOM	5364	C	PHE	687	4.752	71.096	15.037	1.00	93.46	C
ATOM	5365	O	PHE	687	4.875	71.418	16.217	1.00	93.46	O
ATOM	5366	N	GLY	688	5.313	71.801	14.041	1.00	38.70	N
ATOM	5367	CA	GLY	688	6.061	72.984	14.340	1.00	38.70	C
ATOM	5368	C	GLY	688	5.127	73.953	14.994	1.00	38.70	C
ATOM	5369	O	GLY	688	5.483	74.584	15.988	1.00	38.70	O
ATOM	5370	N	LYS	689	3.886	74.062	14.472	1.00	146.92	N
ATOM	5371	CA	LYS	689	2.918	74.983	15.002	1.00	146.92	C
ATOM	5372	CB	LYS	689	1.506	74.860	14.418	1.00	146.92	C
ATOM	5373	CG	LYS	689	1.319	75.336	12.985	1.00	146.92	C
ATOM	5374	CD	LYS	689	-0.061	74.943	12.462	1.00	146.92	C
ATOM	5375	CE	LYS	689	-0.416	73.492	12.795	1.00	146.92	C
ATOM	5376	NZ	LYS	689	-1.872	73.271	12.661	1.00	146.92	N
ATOM	5377	C	LYS	689	2.713	74.621	16.423	1.00	146.92	C
ATOM	5378	O	LYS	689	2.453	75.486	17.255	1.00	146.92	O
ATOM	5379	N	ALA	690	2.775	73.314	16.720	1.00	49.88	N
ATOM	5380	CA	ALA	690	2.585	72.850	18.058	1.00	49.88	C
ATOM	5381	CB	ALA	690	2.694	71.320	18.183	1.00	49.88	C
ATOM	5382	C	ALA	690	3.663	73.452	18.893	1.00	49.88	C
ATOM	5383	O	ALA	690	3.432	73.823	20.042	1.00	49.88	O
ATOM	5384	N	GLY	691	4.885	73.536	18.341	1.00	44.93	N
ATOM	5385	CA	GLY	691	5.976	74.112	19.066	1.00	44.93	C
ATOM	5386	C	GLY	691	5.720	75.565	19.281	1.00	44.93	C
ATOM	5387	O	GLY	691	6.003	76.105	20.350	1.00	44.93	O
ATOM	5388	N	GLU	692	5.199	76.252	18.249	1.00	98.38	N
ATOM	5389	CA	GLU	692	4.983	77.655	18.396	1.00	98.38	C
ATOM	5390	CB	GLU	692	4.323	78.251	17.147	1.00	98.38	C
ATOM	5391	CG	GLU	692	5.131	78.055	15.866	1.00	98.38	C
ATOM	5392	CD	GLU	692	4.220	78.445	14.717	1.00	98.38	C
ATOM	5393	OE1	GLU	692	3.321	79.294	14.957	1.00	98.38	O
ATOM	5394	OE2	GLU	692	4.398	77.902	13.594	1.00	98.38	O
ATOM	5395	C	GLU	692	4.009	77.849	19.512	1.00	98.38	C

ATOM	5396	O	GLU	692	4.376	78.334	20.578	1.00	98.38	O
ATOM	5397	N	ILE	693	2.781	77.318	19.349	1.00	128.34	N
ATOM	5398	CA	ILE	693	1.723	77.575	20.283	1.00	128.34	C
ATOM	5399	CB	ILE	693	0.416	76.919	19.897	1.00	128.34	C
ATOM	5400	CG1	ILE	693	0.469	75.378	19.932	1.00	128.34	C
ATOM	5401	CG2	ILE	693	0.027	77.478	18.519	1.00	128.34	C
ATOM	5402	CD1	ILE	693	0.212	74.765	21.311	1.00	128.34	C
ATOM	5403	C	ILE	693	2.144	77.112	21.633	1.00	128.34	C
ATOM	5404	O	ILE	693	2.006	77.869	22.588	1.00	128.34	O
ATOM	5405	N	LEU	694	2.749	75.912	21.739	1.00	108.00	N
ATOM	5406	CA	LEU	694	3.147	75.368	23.007	1.00	108.00	C
ATOM	5407	CB	LEU	694	4.055	74.137	22.856	1.00	108.00	C
ATOM	5408	CG	LEU	694	3.333	72.814	22.590	1.00	108.00	C
ATOM	5409	CD1	LEU	694	4.324	71.723	22.160	1.00	108.00	C
ATOM	5410	CD2	LEU	694	2.559	72.393	23.845	1.00	108.00	C
ATOM	5411	C	LEU	694	4.000	76.377	23.702	1.00	108.00	C
ATOM	5412	O	LEU	694	3.751	76.699	24.857	1.00	108.00	O
ATOM	5413	N	THR	695	5.008	76.932	23.016	1.00	75.24	N
ATOM	5414	CA	THR	695	5.887	77.883	23.633	1.00	75.24	C
ATOM	5415	CB	THR	695	7.016	78.282	22.729	1.00	75.24	C
ATOM	5416	OG1	THR	695	7.802	77.149	22.392	1.00	75.24	O
ATOM	5417	CG2	THR	695	7.872	79.348	23.434	1.00	75.24	C
ATOM	5418	C	THR	695	5.166	79.149	24.006	1.00	75.24	C
ATOM	5419	O	THR	695	5.386	79.680	25.093	1.00	75.24	O
ATOM	5420	N	LYS	696	4.329	79.698	23.100	1.00	123.14	N
ATOM	5421	CA	LYS	696	3.654	80.947	23.340	1.00	123.14	C
ATOM	5422	CB	LYS	696	2.937	81.489	22.095	1.00	123.14	C
ATOM	5423	CG	LYS	696	3.889	81.851	20.955	1.00	123.14	C
ATOM	5424	CD	LYS	696	3.168	82.116	19.633	1.00	123.14	C
ATOM	5425	CE	LYS	696	2.466	80.874	19.080	1.00	123.14	C
ATOM	5426	NZ	LYS	696	1.764	81.203	17.821	1.00	123.14	N
ATOM	5427	C	LYS	696	2.623	80.832	24.402	1.00	123.14	C
ATOM	5428	O	LYS	696	2.664	81.552	25.394	1.00	123.14	O
ATOM	5429	N	ARG	697	1.701	79.870	24.241	1.00	161.40	N
ATOM	5430	CA	ARG	697	0.633	79.681	25.168	1.00	161.40	C
ATOM	5431	CB	ARG	697	-0.219	78.436	24.885	1.00	161.40	C
ATOM	5432	CG	ARG	697	-1.356	78.256	25.895	1.00	161.40	C
ATOM	5433	CD	ARG	697	-1.918	76.834	25.937	1.00	161.40	C
ATOM	5434	NE	ARG	697	-2.395	76.496	24.569	1.00	161.40	N
ATOM	5435	CZ	ARG	697	-2.428	75.190	24.174	1.00	161.40	C
ATOM	5436	NH1	ARG	697	-2.022	74.209	25.032	1.00	161.40	N
ATOM	5437	NH2	ARG	697	-2.863	74.868	22.921	1.00	161.40	N
ATOM	5438	C	ARG	697	1.306	79.428	26.470	1.00	161.40	C
ATOM	5439	O	ARG	697	0.745	79.732	27.518	1.00	161.40	O
ATOM	5440	N	LEU	698	2.489	78.779	26.427	1.00	204.34	N
ATOM	5441	CA	LEU	698	3.260	78.505	27.604	1.00	204.34	C
ATOM	5442	CB	LEU	698	4.364	77.444	27.425	1.00	204.34	C
ATOM	5443	CG	LEU	698	3.927	76.002	27.779	1.00	204.34	C
ATOM	5444	CD1	LEU	698	3.789	75.854	29.302	1.00	204.34	C
ATOM	5445	CD2	LEU	698	2.640	75.554	27.067	1.00	204.34	C
ATOM	5446	C	LEU	698	3.864	79.716	28.250	1.00	204.34	C
ATOM	5447	O	LEU	698	3.649	79.916	29.440	1.00	204.34	O
ATOM	5448	N	ARG	699	4.585	80.585	27.507	1.00	152.77	N
ATOM	5449	CA	ARG	699	5.207	81.718	28.138	1.00	152.77	C
ATOM	5450	CB	ARG	699	5.988	82.616	27.164	1.00	152.77	C
ATOM	5451	CG	ARG	699	7.281	81.966	26.668	1.00	152.77	C
ATOM	5452	CD	ARG	699	8.032	82.788	25.621	1.00	152.77	C
ATOM	5453	NE	ARG	699	8.817	83.840	26.322	1.00	152.77	N
ATOM	5454	CZ	ARG	699	10.023	84.236	25.817	1.00	152.77	C
ATOM	5455	NH1	ARG	699	10.524	83.647	24.692	1.00	152.77	N
ATOM	5456	NH2	ARG	699	10.733	85.220	26.440	1.00	152.77	N
ATOM	5457	C	ARG	699	4.108	82.516	28.746	1.00	152.77	C
ATOM	5458	O	ARG	699	4.253	83.053	29.841	1.00	152.77	O
ATOM	5459	N	TYR	700	2.968	82.603	28.039	1.00	150.19	N
ATOM	5460	CA	TYR	700	1.853	83.322	28.566	1.00	150.19	C
ATOM	5461	CB	TYR	700	0.684	83.452	27.579	1.00	150.19	C
ATOM	5462	CG	TYR	700	-0.271	84.420	28.188	1.00	150.19	C
ATOM	5463	CD1	TYR	700	0.000	85.768	28.139	1.00	150.19	C
ATOM	5464	CD2	TYR	700	-1.428	83.998	28.800	1.00	150.19	C
ATOM	5465	CE1	TYR	700	-0.864	86.683	28.692	1.00	150.19	C
ATOM	5466	CE2	TYR	700	-2.297	84.909	29.355	1.00	150.19	C
ATOM	5467	CZ	TYR	700	-2.016	86.253	29.301	1.00	150.19	C
ATOM	5468	OH	TYR	700	-2.907	87.188	29.869	1.00	150.19	O
ATOM	5469	C	TYR	700	1.349	82.606	29.773	1.00	150.19	C

ATOM	5470	O	TYR	700	1.213	83.211	30.830	1.00150.19	O
ATOM	5471	N	MET	701	1.146	81.278	29.677	1.00150.05	N
ATOM	5472	CA	MET	701	0.549	80.542	30.753	1.00150.05	C
ATOM	5473	CB	MET	701	0.491	79.026	30.483	1.00150.05	C
ATOM	5474	CG	MET	701	-0.223	78.235	31.582	1.00150.05	C
ATOM	5475	SD	MET	701	-0.311	76.442	31.291	1.00150.05	S
ATOM	5476	CE	MET	701	-1.254	76.084	32.802	1.00150.05	C
ATOM	5477	C	MET	701	1.391	80.739	31.971	1.00150.05	C
ATOM	5478	O	MET	701	0.868	81.068	33.032	1.00150.05	O
ATOM	5479	N	VAL	702	2.723	80.596	31.837	1.00 71.73	N
ATOM	5480	CA	VAL	702	3.614	80.727	32.954	1.00 71.73	C
ATOM	5481	CB	VAL	702	5.040	80.439	32.592	1.00 71.73	C
ATOM	5482	CG1	VAL	702	5.921	80.720	33.822	1.00 71.73	C
ATOM	5483	CG2	VAL	702	5.130	78.992	32.079	1.00 71.73	C
ATOM	5484	C	VAL	702	3.575	82.122	33.492	1.00 71.73	C
ATOM	5485	O	VAL	702	3.430	82.311	34.697	1.00 71.73	O
ATOM	5486	N	PHE	703	3.674	83.140	32.614	1.00157.82	N
ATOM	5487	CA	PHE	703	3.762	84.493	33.094	1.00157.82	C
ATOM	5488	CB	PHE	703	3.844	85.547	31.974	1.00157.82	C
ATOM	5489	CG	PHE	703	4.336	86.822	32.580	1.00157.82	C
ATOM	5490	CD1	PHE	703	3.580	87.528	33.489	1.00157.82	C
ATOM	5491	CD2	PHE	703	5.589	87.296	32.266	1.00157.82	C
ATOM	5492	CE1	PHE	703	4.049	88.693	34.048	1.00157.82	C
ATOM	5493	CE2	PHE	703	6.065	88.461	32.819	1.00157.82	C
ATOM	5494	CZ	PHE	703	5.294	89.166	33.710	1.00157.82	C
ATOM	5495	C	PHE	703	2.523	84.810	33.851	1.00157.82	C
ATOM	5496	O	PHE	703	2.571	85.300	34.978	1.00157.82	O
ATOM	5497	N	ARG	704	1.369	84.508	33.247	1.00241.56	N
ATOM	5498	CA	ARG	704	0.129	84.819	33.863	1.00241.56	C
ATOM	5499	CB	ARG	704	-1.080	84.399	33.017	1.00241.56	C
ATOM	5500	CG	ARG	704	-2.363	85.123	33.418	1.00241.56	C
ATOM	5501	CD	ARG	704	-2.455	86.572	32.919	1.00241.56	C
ATOM	5502	NE	ARG	704	-1.383	87.389	33.559	1.00241.56	N
ATOM	5503	CZ	ARG	704	-0.192	87.589	32.920	1.00241.56	C
ATOM	5504	NH1	ARG	704	0.038	87.022	31.699	1.00241.56	N
ATOM	5505	NH2	ARG	704	0.775	88.356	33.503	1.00241.56	N
ATOM	5506	C	ARG	704	0.103	84.051	35.128	1.00241.56	C
ATOM	5507	O	ARG	704	-0.440	84.541	36.109	1.00241.56	O
ATOM	5508	N	SER	705	0.706	82.843	35.143	1.00 79.50	N
ATOM	5509	CA	SER	705	0.701	82.029	36.323	1.00 79.50	C
ATOM	5510	CB	SER	705	1.584	80.770	36.213	1.00 79.50	C
ATOM	5511	OG	SER	705	1.025	79.844	35.294	1.00 79.50	O
ATOM	5512	C	SER	705	1.270	82.862	37.410	1.00 79.50	C
ATOM	5513	O	SER	705	0.728	82.872	38.508	1.00 79.50	O
ATOM	5514	N	MET	706	2.384	83.565	37.127	1.00118.80	N
ATOM	5515	CA	MET	706	3.023	84.424	38.079	1.00118.80	C
ATOM	5516	CB	MET	706	4.358	84.972	37.546	1.00118.80	C
ATOM	5517	CG	MET	706	5.425	83.904	37.301	1.00118.80	C
ATOM	5518	SD	MET	706	6.866	84.507	36.369	1.00118.80	S
ATOM	5519	CE	MET	706	7.829	82.976	36.529	1.00118.80	C
ATOM	5520	C	MET	706	2.201	85.635	38.413	1.00118.80	C
ATOM	5521	O	MET	706	1.968	85.939	39.581	1.00118.80	O
ATOM	5522	N	LEU	707	1.709	86.355	37.390	1.00111.15	N
ATOM	5523	CA	LEU	707	1.038	87.584	37.671	1.00111.15	C
ATOM	5524	CB	LEU	707	0.743	88.371	36.391	1.00111.15	C
ATOM	5525	CG	LEU	707	0.291	89.808	36.662	1.00111.15	C
ATOM	5526	CD1	LEU	707	1.203	90.487	37.695	1.00111.15	C
ATOM	5527	CD2	LEU	707	0.306	90.598	35.351	1.00111.15	C
ATOM	5528	C	LEU	707	-0.196	87.273	38.457	1.00111.15	C
ATOM	5529	O	LEU	707	-0.513	87.968	39.422	1.00111.15	O
ATOM	5530	N	ARG	708	-0.920	86.206	38.064	1.00194.42	N
ATOM	5531	CA	ARG	708	-2.086	85.776	38.782	1.00194.42	C
ATOM	5532	CB	ARG	708	-2.917	84.686	38.077	1.00194.42	C
ATOM	5533	CG	ARG	708	-2.194	83.362	37.848	1.00194.42	C
ATOM	5534	CD	ARG	708	-3.043	82.326	37.111	1.00194.42	C
ATOM	5535	NE	ARG	708	-3.494	82.939	35.830	1.00194.42	N
ATOM	5536	CZ	ARG	708	-3.479	82.206	34.678	1.00194.42	C
ATOM	5537	NH1	ARG	708	-2.979	80.937	34.683	1.00194.42	N
ATOM	5538	NH2	ARG	708	-3.965	82.742	33.521	1.00194.42	N
ATOM	5539	C	ARG	708	-1.628	85.256	40.095	1.00194.42	C
ATOM	5540	O	ARG	708	-2.260	85.483	41.126	1.00194.42	O
ATOM	5541	N	GLN	709	-0.471	84.567	40.089	1.00191.28	N
ATOM	5542	CA	GLN	709	0.118	84.096	41.300	1.00191.28	C
ATOM	5543	CB	GLN	709	1.452	83.345	41.092	1.00191.28	C

ATOM	5544	CG	GLN	709	2.133	82.832	42.361	1.00191.28	C
ATOM	5545	CD	GLN	709	1.267	81.762	43.002	1.00191.28	C
ATOM	5546	OE1	GLN	709	0.440	81.130	42.347	1.00191.28	O
ATOM	5547	NE2	GLN	709	1.461	81.563	44.333	1.00191.28	N
ATOM	5548	C	GLN	709	0.409	85.348	42.048	1.00191.28	C
ATOM	5549	O	GLN	709	0.354	86.452	41.511	1.00191.28	O
ATOM	5550	N	ASP	710	0.640	85.212	43.349	1.00151.53	N
ATOM	5551	CA	ASP	710	0.921	86.340	44.161	1.00151.53	C
ATOM	5552	CB	ASP	710	-0.055	87.523	43.991	1.00151.53	C
ATOM	5553	CG	ASP	710	-1.488	87.046	44.173	1.00151.53	C
ATOM	5554	OD1	ASP	710	-1.700	85.834	44.440	1.00151.53	O
ATOM	5555	OD2	ASP	710	-2.398	87.903	44.026	1.00151.53	O
ATOM	5556	C	ASP	710	0.821	85.789	45.517	1.00151.53	C
ATOM	5557	O	ASP	710	1.067	84.597	45.702	1.00151.53	O
ATOM	5558	N	VAL	711	0.475	86.642	46.489	1.00127.13	N
ATOM	5559	CA	VAL	711	0.353	86.160	47.819	1.00127.13	C
ATOM	5560	CB	VAL	711	-0.455	84.885	47.936	1.00127.13	C
ATOM	5561	CG1	VAL	711	-0.597	84.433	49.403	1.00127.13	C
ATOM	5562	CG2	VAL	711	-1.800	85.149	47.241	1.00127.13	C
ATOM	5563	C	VAL	711	1.779	86.048	48.244	1.00127.13	C
ATOM	5564	O	VAL	711	2.625	86.721	47.660	1.00127.13	O
ATOM	5565	N	SER	712	2.096	85.175	49.212	1.00123.94	N
ATOM	5566	CA	SER	712	3.391	85.045	49.807	1.00123.94	C
ATOM	5567	CB	SER	712	3.411	83.929	50.864	1.00123.94	C
ATOM	5568	OG	SER	712	4.701	83.818	51.441	1.00123.94	O
ATOM	5569	C	SER	712	4.434	84.718	48.783	1.00123.94	C
ATOM	5570	O	SER	712	5.603	84.573	49.136	1.00123.94	O
ATOM	5571	N	TRP	713	4.060	84.563	47.497	1.00127.06	N
ATOM	5572	CA	TRP	713	5.054	84.262	46.508	1.00127.06	C
ATOM	5573	CB	TRP	713	4.422	84.204	45.108	1.00127.06	C
ATOM	5574	CG	TRP	713	5.299	83.666	44.006	1.00127.06	C
ATOM	5575	CD2	TRP	713	5.619	82.273	43.871	1.00127.06	C
ATOM	5576	CD1	TRP	713	5.927	84.309	42.980	1.00127.06	C
ATOM	5577	NE1	TRP	713	6.596	83.398	42.197	1.00127.06	N
ATOM	5578	CE2	TRP	713	6.420	82.142	42.738	1.00127.06	C
ATOM	5579	CE3	TRP	713	5.271	81.193	44.629	1.00127.06	C
ATOM	5580	CZ2	TRP	713	6.888	80.920	42.343	1.00127.06	C
ATOM	5581	CZ3	TRP	713	5.746	79.963	44.230	1.00127.06	C
ATOM	5582	CH2	TRP	713	6.538	79.829	43.107	1.00127.06	C
ATOM	5583	C	TRP	713	6.088	85.346	46.557	1.00127.06	C
ATOM	5584	O	TRP	713	7.186	85.100	47.038	1.00127.06	O
ATOM	5585	N	PHE	714	5.777	86.571	46.092	1.00120.73	N
ATOM	5586	CA	PHE	714	6.654	87.705	46.226	1.00120.73	C
ATOM	5587	CB	PHE	714	6.352	88.862	45.264	1.00120.73	C
ATOM	5588	CG	PHE	714	6.612	88.387	43.883	1.00120.73	C
ATOM	5589	CD1	PHE	714	7.884	88.041	43.496	1.00120.73	C
ATOM	5590	CD2	PHE	714	5.587	88.319	42.969	1.00120.73	C
ATOM	5591	CE1	PHE	714	8.127	87.610	42.215	1.00120.73	C
ATOM	5592	CE2	PHE	714	5.823	87.890	41.686	1.00120.73	C
ATOM	5593	CZ	PHE	714	7.096	87.532	41.309	1.00120.73	C
ATOM	5594	C	PHE	714	6.439	88.259	47.600	1.00120.73	C
ATOM	5595	O	PHE	714	7.296	88.943	48.152	1.00120.73	O
ATOM	5596	N	ASP	715	5.230	88.026	48.151	1.00 95.28	N
ATOM	5597	CA	ASP	715	4.826	88.558	49.423	1.00 95.28	C
ATOM	5598	CB	ASP	715	3.375	88.230	49.819	1.00 95.28	C
ATOM	5599	CG	ASP	715	2.441	89.102	48.985	1.00 95.28	C
ATOM	5600	OD1	ASP	715	2.845	89.492	47.858	1.00 95.28	O
ATOM	5601	OD2	ASP	715	1.311	89.388	49.464	1.00 95.28	O
ATOM	5602	C	ASP	715	5.739	88.053	50.506	1.00 95.28	C
ATOM	5603	O	ASP	715	5.878	88.710	51.539	1.00 95.28	O
ATOM	5604	N	ASP	716	6.299	86.833	50.339	1.00112.89	N
ATOM	5605	CA	ASP	716	7.307	86.281	51.213	1.00112.89	C
ATOM	5606	CB	ASP	716	6.722	85.480	52.390	1.00112.89	C
ATOM	5607	CG	ASP	716	7.779	85.331	53.477	1.00112.89	C
ATOM	5608	OD1	ASP	716	8.512	86.323	53.734	1.00112.89	O
ATOM	5609	OD2	ASP	716	7.868	84.220	54.064	1.00112.89	O
ATOM	5610	C	ASP	716	8.055	85.322	50.322	1.00112.89	C
ATOM	5611	O	ASP	716	7.829	84.112	50.348	1.00112.89	O
ATOM	5612	N	PRO	717	8.945	85.887	49.541	1.00177.84	N
ATOM	5613	CA	PRO	717	9.573	85.261	48.405	1.00177.84	C
ATOM	5614	CD	PRO	717	9.121	87.326	49.534	1.00177.84	C
ATOM	5615	CB	PRO	717	9.819	86.395	47.414	1.00177.84	C
ATOM	5616	CG	PRO	717	10.026	87.616	48.322	1.00177.84	C
ATOM	5617	C	PRO	717	10.811	84.454	48.492	1.00177.84	C

ATOM	5618	O	PRO	717	11.456	84.380	49.538	1.00177.84	O
ATOM	5619	N	LYS	718	11.118	83.851	47.322	1.00294.54	N
ATOM	5620	CA	LYS	718	12.328	83.149	47.050	1.00294.54	C
ATOM	5621	CB	LYS	718	12.312	81.753	47.682	1.00294.54	C
ATOM	5622	CG	LYS	718	12.431	81.840	49.203	1.00294.54	C
ATOM	5623	CD	LYS	718	11.835	80.647	49.940	1.00294.54	C
ATOM	5624	CE	LYS	718	10.391	80.888	50.381	1.00294.54	C
ATOM	5625	NZ	LYS	718	9.563	81.271	49.215	1.00294.54	N
ATOM	5626	C	LYS	718	12.417	83.019	45.557	1.00294.54	C
ATOM	5627	O	LYS	718	13.032	82.084	45.043	1.00294.54	O
ATOM	5628	N	ASN	719	11.805	83.958	44.799	1.00160.35	N
ATOM	5629	CA	ASN	719	11.921	83.823	43.379	1.00160.35	C
ATOM	5630	CB	ASN	719	10.619	83.301	42.757	1.00160.35	C
ATOM	5631	CG	ASN	719	10.326	81.950	43.393	1.00160.35	C
ATOM	5632	OD1	ASN	719	11.008	80.962	43.126	1.00160.35	O
ATOM	5633	ND2	ASN	719	9.288	81.910	44.272	1.00160.35	N
ATOM	5634	C	ASN	719	12.147	85.178	42.805	1.00160.35	C
ATOM	5635	O	ASN	719	11.202	85.890	42.477	1.00160.35	O
ATOM	5636	N	THR	720	13.420	85.524	42.577	1.00157.90	N
ATOM	5637	CA	THR	720	13.801	86.827	42.137	1.00157.90	C
ATOM	5638	CB	THR	720	15.283	87.056	42.244	1.00157.90	C
ATOM	5639	OG1	THR	720	15.626	88.360	41.797	1.00157.90	O
ATOM	5640	CG2	THR	720	16.026	85.973	41.444	1.00157.90	C
ATOM	5641	C	THR	720	13.358	87.043	40.731	1.00157.90	C
ATOM	5642	O	THR	720	12.950	86.119	40.027	1.00157.90	O
ATOM	5643	N	THR	721	13.420	88.319	40.312	1.00 60.29	N
ATOM	5644	CA	THR	721	12.992	88.704	39.010	1.00 60.29	C
ATOM	5645	CB	THR	721	13.206	90.165	38.744	1.00 60.29	C
ATOM	5646	OG1	THR	721	12.501	90.947	39.697	1.00 60.29	O
ATOM	5647	CG2	THR	721	12.712	90.486	37.324	1.00 60.29	C
ATOM	5648	C	THR	721	13.806	87.952	38.005	1.00 60.29	C
ATOM	5649	O	THR	721	13.267	87.383	37.057	1.00 60.29	O
ATOM	5650	N	GLY	722	15.133	87.897	38.209	1.00 59.16	N
ATOM	5651	CA	GLY	722	15.989	87.258	37.252	1.00 59.16	C
ATOM	5652	C	GLY	722	15.610	85.824	37.146	1.00 59.16	C
ATOM	5653	O	GLY	722	15.536	85.280	36.044	1.00 59.16	O
ATOM	5654	N	ALA	723	15.318	85.188	38.294	1.00 79.67	N
ATOM	5655	CA	ALA	723	15.013	83.794	38.278	1.00 79.67	C
ATOM	5656	CB	ALA	723	14.623	83.254	39.665	1.00 79.67	C
ATOM	5657	C	ALA	723	13.840	83.630	37.380	1.00 79.67	C
ATOM	5658	O	ALA	723	13.741	82.657	36.636	1.00 79.67	O
ATOM	5659	N	LEU	724	12.913	84.594	37.444	1.00113.85	N
ATOM	5660	CA	LEU	724	11.732	84.556	36.640	1.00113.85	C
ATOM	5661	CB	LEU	724	10.681	85.566	37.118	1.00113.85	C
ATOM	5662	CG	LEU	724	10.196	85.253	38.545	1.00113.85	C
ATOM	5663	CD1	LEU	724	9.065	86.200	38.975	1.00113.85	C
ATOM	5664	CD2	LEU	724	9.834	83.766	38.692	1.00113.85	C
ATOM	5665	C	LEU	724	11.971	84.785	35.171	1.00113.85	C
ATOM	5666	O	LEU	724	11.483	84.023	34.334	1.00113.85	O
ATOM	5667	N	THR	725	12.748	85.826	34.806	1.00 72.09	N
ATOM	5668	CA	THR	725	12.896	86.137	33.410	1.00 72.09	C
ATOM	5669	CB	THR	725	13.791	87.315	33.162	1.00 72.09	C
ATOM	5670	OG1	THR	725	15.116	87.029	33.585	1.00 72.09	O
ATOM	5671	CG2	THR	725	13.238	88.521	33.940	1.00 72.09	C
ATOM	5672	C	THR	725	13.518	84.954	32.756	1.00 72.09	C
ATOM	5673	O	THR	725	13.108	84.515	31.678	1.00 72.09	O
ATOM	5674	N	THR	726	14.510	84.373	33.446	1.00168.31	N
ATOM	5675	CA	THR	726	15.218	83.292	32.842	1.00168.31	C
ATOM	5676	CB	THR	726	16.356	82.777	33.684	1.00168.31	C
ATOM	5677	OG1	THR	726	17.132	81.867	32.923	1.00168.31	O
ATOM	5678	CG2	THR	726	15.839	82.091	34.959	1.00168.31	C
ATOM	5679	C	THR	726	14.266	82.185	32.557	1.00168.31	C
ATOM	5680	O	THR	726	14.216	81.659	31.444	1.00168.31	O
ATOM	5681	N	ARG	727	13.418	81.870	33.545	1.00242.29	N
ATOM	5682	CA	ARG	727	12.549	80.747	33.422	1.00242.29	C
ATOM	5683	CB	ARG	727	11.631	80.627	34.655	1.00242.29	C
ATOM	5684	CG	ARG	727	10.895	79.294	34.812	1.00242.29	C
ATOM	5685	CD	ARG	727	11.813	78.116	35.160	1.00242.29	C
ATOM	5686	NE	ARG	727	12.763	78.560	36.218	1.00242.29	N
ATOM	5687	CZ	ARG	727	13.855	77.798	36.517	1.00242.29	C
ATOM	5688	NH1	ARG	727	14.044	76.591	35.911	1.00242.29	N
ATOM	5689	NH2	ARG	727	14.768	78.245	37.424	1.00242.29	N
ATOM	5690	C	ARG	727	11.696	80.927	32.202	1.00242.29	C
ATOM	5691	O	ARG	727	11.547	80.002	31.401	1.00242.29	O

ATOM	5692	N	LEU	728	11.169	82.146	31.983	1.00101.64	N
ATOM	5693	CA	LEU	728	10.240	82.276	30.900	1.00101.64	C
ATOM	5694	CB	LEU	728	9.666	83.693	30.756	1.00101.64	C
ATOM	5695	CG	LEU	728	8.803	84.126	31.952	1.00101.64	C
ATOM	5696	CD1	LEU	728	8.020	85.404	31.623	1.00101.64	C
ATOM	5697	CD2	LEU	728	7.907	82.980	32.446	1.00101.64	C
ATOM	5698	C	LEU	728	10.837	81.905	29.572	1.00101.64	C
ATOM	5699	O	LEU	728	10.358	80.982	28.914	1.00101.64	O
ATOM	5700	N	ALA	729	11.932	82.562	29.155	1.00 91.46	N
ATOM	5701	CA	ALA	729	12.373	82.317	27.808	1.00 91.46	C
ATOM	5702	CB	ALA	729	13.486	83.287	27.374	1.00 91.46	C
ATOM	5703	C	ALA	729	12.885	80.929	27.562	1.00 91.46	C
ATOM	5704	O	ALA	729	12.370	80.219	26.695	1.00 91.46	O
ATOM	5705	N	ASN	730	13.862	80.464	28.366	1.00116.99	N
ATOM	5706	CA	ASN	730	14.497	79.235	27.966	1.00116.99	C
ATOM	5707	CB	ASN	730	15.718	78.835	28.828	1.00116.99	C
ATOM	5708	CG	ASN	730	15.283	78.394	30.220	1.00116.99	C
ATOM	5709	OD1	ASN	730	14.846	77.260	30.409	1.00116.99	O
ATOM	5710	ND2	ASN	730	15.424	79.299	31.226	1.00116.99	N
ATOM	5711	C	ASN	730	13.518	78.107	27.997	1.00116.99	C
ATOM	5712	O	ASN	730	13.404	77.342	27.038	1.00116.99	O
ATOM	5713	N	ASP	731	12.727	78.044	29.080	1.00 93.81	N
ATOM	5714	CA	ASP	731	11.874	76.924	29.360	1.00 93.81	C
ATOM	5715	CB	ASP	731	11.198	77.050	30.732	1.00 93.81	C
ATOM	5716	CG	ASP	731	12.311	76.928	31.763	1.00 93.81	C
ATOM	5717	OD1	ASP	731	12.988	75.865	31.788	1.00 93.81	O
ATOM	5718	OD2	ASP	731	12.519	77.913	32.520	1.00 93.81	O
ATOM	5719	C	ASP	731	10.814	76.710	28.328	1.00 93.81	C
ATOM	5720	O	ASP	731	10.523	75.560	28.000	1.00 93.81	O
ATOM	5721	N	ALA	732	10.197	77.777	27.783	1.00 65.85	N
ATOM	5722	CA	ALA	732	9.156	77.504	26.828	1.00 65.85	C
ATOM	5723	CB	ALA	732	8.519	78.780	26.256	1.00 65.85	C
ATOM	5724	C	ALA	732	9.747	76.740	25.680	1.00 65.85	C
ATOM	5725	O	ALA	732	9.203	75.726	25.242	1.00 65.85	O
ATOM	5726	N	ALA	733	10.935	77.152	25.216	1.00 78.14	N
ATOM	5727	CA	ALA	733	11.472	76.494	24.056	1.00 78.14	C
ATOM	5728	CB	ALA	733	12.828	77.076	23.624	1.00 78.14	C
ATOM	5729	C	ALA	733	11.679	75.025	24.292	1.00 78.14	C
ATOM	5730	O	ALA	733	11.236	74.191	23.502	1.00 78.14	O
ATOM	5731	N	GLN	734	12.284	74.668	25.434	1.00103.07	N
ATOM	5732	CA	GLN	734	12.688	73.316	25.700	1.00103.07	C
ATOM	5733	CB	GLN	734	13.224	73.201	27.135	1.00103.07	C
ATOM	5734	CG	GLN	734	14.166	74.345	27.528	1.00103.07	C
ATOM	5735	CD	GLN	734	15.512	74.161	26.852	1.00103.07	C
ATOM	5736	OE1	GLN	734	16.195	73.162	27.069	1.00103.07	O
ATOM	5737	NE2	GLN	734	15.913	75.156	26.016	1.00103.07	N
ATOM	5738	C	GLN	734	11.490	72.407	25.635	1.00103.07	C
ATOM	5739	O	GLN	734	11.521	71.359	24.985	1.00103.07	O
ATOM	5740	N	VAL	735	10.375	72.819	26.267	1.00 80.02	N
ATOM	5741	CA	VAL	735	9.218	71.967	26.378	1.00 80.02	C
ATOM	5742	CB	VAL	735	8.078	72.605	27.124	1.00 80.02	C
ATOM	5743	CG1	VAL	735	8.553	72.940	28.549	1.00 80.02	C
ATOM	5744	CG2	VAL	735	7.558	73.811	26.324	1.00 80.02	C
ATOM	5745	C	VAL	735	8.715	71.601	25.020	1.00 80.02	C
ATOM	5746	O	VAL	735	8.323	70.455	24.779	1.00 80.02	O
ATOM	5747	N	LYS	736	8.774	72.570	24.091	1.00143.78	N
ATOM	5748	CA	LYS	736	8.329	72.407	22.738	1.00143.78	C
ATOM	5749	CB	LYS	736	8.857	73.598	21.922	1.00143.78	C
ATOM	5750	CG	LYS	736	8.515	73.654	20.440	1.00143.78	C
ATOM	5751	CD	LYS	736	9.149	72.602	19.533	1.00143.78	C
ATOM	5752	CE	LYS	736	8.715	72.785	18.075	1.00143.78	C
ATOM	5753	NZ	LYS	736	9.617	72.051	17.163	1.00143.78	N
ATOM	5754	C	LYS	736	9.012	71.165	22.258	1.00143.78	C
ATOM	5755	O	LYS	736	8.442	70.330	21.553	1.00143.78	O
ATOM	5756	N	GLY	737	10.262	70.991	22.714	1.00 63.54	N
ATOM	5757	CA	GLY	737	11.047	69.853	22.332	1.00 63.54	C
ATOM	5758	C	GLY	737	10.439	68.556	22.799	1.00 63.54	C
ATOM	5759	O	GLY	737	10.416	67.577	22.052	1.00 63.54	O
ATOM	5760	N	ALA	738	9.912	68.505	24.040	1.00 85.98	N
ATOM	5761	CA	ALA	738	9.431	67.256	24.581	1.00 85.98	C
ATOM	5762	CB	ALA	738	8.888	67.406	26.013	1.00 85.98	C
ATOM	5763	C	ALA	738	8.316	66.671	23.738	1.00 85.98	C
ATOM	5764	O	ALA	738	8.213	65.449	23.607	1.00 85.98	O
ATOM	5765	N	ILE	739	7.393	67.509	23.216	1.00 96.70	N

ATOM	5766	CA	ILE	739	6.285	67.011	22.423	1.00	96.70	C
ATOM	5767	CB	ILE	739	5.160	67.997	22.303	1.00	96.70	C
ATOM	5768	CG1	ILE	739	4.574	68.282	23.697	1.00	96.70	C
ATOM	5769	CG2	ILE	739	4.132	67.433	21.307	1.00	96.70	C
ATOM	5770	CD1	ILE	739	3.501	69.368	23.723	1.00	96.70	C
ATOM	5771	C	ILE	739	6.638	66.545	21.024	1.00	96.70	C
ATOM	5772	O	ILE	739	6.226	65.464	20.592	1.00	96.70	O
ATOM	5773	N	GLY	740	7.428	67.336	20.271	1.00	71.51	N
ATOM	5774	CA	GLY	740	7.730	66.985	18.904	1.00	71.51	C
ATOM	5775	C	GLY	740	8.382	65.640	18.912	1.00	71.51	C
ATOM	5776	O	GLY	740	8.263	64.870	17.955	1.00	71.51	O
ATOM	5777	N	SER	741	9.113	65.348	20.005	1.00	95.13	N
ATOM	5778	CA	SER	741	9.839	64.114	20.134	1.00	95.13	C
ATOM	5779	CB	SER	741	10.615	64.018	21.459	1.00	95.13	C
ATOM	5780	OG	SER	741	11.308	62.780	21.523	1.00	95.13	O
ATOM	5781	C	SER	741	8.902	62.948	20.080	1.00	95.13	C
ATOM	5782	O	SER	741	9.169	61.947	19.408	1.00	95.13	O
ATOM	5783	N	ARG	742	7.740	63.069	20.748	1.00	163.09	N
ATOM	5784	CA	ARG	742	6.843	61.953	20.807	1.00	163.09	C
ATOM	5785	CB	ARG	742	5.567	62.261	21.615	1.00	163.09	C
ATOM	5786	CG	ARG	742	5.857	62.684	23.064	1.00	163.09	C
ATOM	5787	CD	ARG	742	6.404	61.571	23.966	1.00	163.09	C
ATOM	5788	NE	ARG	742	6.698	62.172	25.301	1.00	163.09	N
ATOM	5789	CZ	ARG	742	7.104	61.387	26.345	1.00	163.09	C
ATOM	5790	NH1	ARG	742	7.184	60.033	26.196	1.00	163.09	N
ATOM	5791	NH2	ARG	742	7.440	61.951	27.542	1.00	163.09	N
ATOM	5792	C	ARG	742	6.466	61.604	19.381	1.00	163.09	C
ATOM	5793	O	ARG	742	6.264	60.440	19.028	1.00	163.09	O
ATOM	5794	N	LEU	743	6.376	62.629	18.510	1.00	98.72	N
ATOM	5795	CA	LEU	743	5.976	62.458	17.130	1.00	98.72	C
ATOM	5796	CB	LEU	743	5.849	63.809	16.404	1.00	98.72	C
ATOM	5797	CG	LEU	743	4.771	64.743	16.989	1.00	98.72	C
ATOM	5798	CD1	LEU	743	4.703	66.066	16.211	1.00	98.72	C
ATOM	5799	CD2	LEU	743	3.405	64.043	17.073	1.00	98.72	C
ATOM	5800	C	LEU	743	6.930	61.623	16.300	1.00	98.72	C
ATOM	5801	O	LEU	743	6.524	60.687	15.610	1.00	98.72	O
ATOM	5802	N	ALA	744	8.237	61.926	16.358	1.00	103.41	N
ATOM	5803	CA	ALA	744	9.262	61.291	15.560	1.00	103.41	C
ATOM	5804	CB	ALA	744	10.656	61.896	15.799	1.00	103.41	C
ATOM	5805	C	ALA	744	9.323	59.846	15.916	1.00	103.41	C
ATOM	5806	O	ALA	744	9.916	59.044	15.194	1.00	103.41	O
ATOM	5807	N	VAL	745	8.856	59.516	17.131	1.00	99.34	N
ATOM	5808	CA	VAL	745	8.869	58.159	17.583	1.00	99.34	C
ATOM	5809	CB	VAL	745	8.415	58.026	19.006	1.00	99.34	C
ATOM	5810	CG1	VAL	745	8.346	56.530	19.359	1.00	99.34	C
ATOM	5811	CG2	VAL	745	9.363	58.838	19.903	1.00	99.34	C
ATOM	5812	C	VAL	745	7.956	57.310	16.762	1.00	99.34	C
ATOM	5813	O	VAL	745	8.376	56.340	16.128	1.00	99.34	O
ATOM	5814	N	ILE	746	6.674	57.706	16.693	1.00	151.63	N
ATOM	5815	CA	ILE	746	5.722	56.863	16.033	1.00	151.63	C
ATOM	5816	CB	ILE	746	4.322	57.420	16.076	1.00	151.63	C
ATOM	5817	CG1	ILE	746	3.302	56.347	15.663	1.00	151.63	C
ATOM	5818	CG2	ILE	746	4.267	58.704	15.231	1.00	151.63	C
ATOM	5819	CD1	ILE	746	3.178	55.206	16.672	1.00	151.63	C
ATOM	5820	C	ILE	746	6.149	56.704	14.607	1.00	151.63	C
ATOM	5821	O	ILE	746	6.092	55.610	14.042	1.00	151.63	O
ATOM	5822	N	THR	747	6.640	57.799	14.003	1.00	165.70	N
ATOM	5823	CA	THR	747	6.966	57.767	12.607	1.00	165.70	C
ATOM	5824	CB	THR	747	7.385	59.114	12.081	1.00	165.70	C
ATOM	5825	OG1	THR	747	7.695	59.018	10.700	1.00	165.70	O
ATOM	5826	CG2	THR	747	8.605	59.624	12.862	1.00	165.70	C
ATOM	5827	C	THR	747	8.030	56.778	12.234	1.00	165.70	C
ATOM	5828	O	THR	747	7.760	55.858	11.464	1.00	165.70	O
ATOM	5829	N	GLN	748	9.232	56.872	12.830	1.00	179.66	N
ATOM	5830	CA	GLN	748	10.352	56.080	12.392	1.00	179.66	C
ATOM	5831	CB	GLN	748	11.529	56.155	13.365	1.00	179.66	C
ATOM	5832	CG	GLN	748	11.949	57.560	13.757	1.00	179.66	C
ATOM	5833	CD	GLN	748	12.848	57.388	14.971	1.00	179.66	C
ATOM	5834	OE1	GLN	748	12.658	58.044	15.994	1.00	179.66	O
ATOM	5835	NE2	GLN	748	13.848	56.472	14.862	1.00	179.66	N
ATOM	5836	C	GLN	748	9.942	54.659	12.514	1.00	179.66	C
ATOM	5837	O	GLN	748	10.185	53.833	11.632	1.00	179.66	O
ATOM	5838	N	ASN	749	9.221	54.389	13.611	1.00	104.72	N
ATOM	5839	CA	ASN	749	8.873	53.048	13.938	1.00	104.72	C

ATOM	5840	CB	ASN	749	7.903	52.982	15.124	1.00104.72	C
ATOM	5841	CG	ASN	749	7.521	51.525	15.325	1.00104.72	C
ATOM	5842	OD1	ASN	749	8.312	50.619	15.066	1.00104.72	O
ATOM	5843	ND2	ASN	749	6.260	51.292	15.778	1.00104.72	N
ATOM	5844	C	ASN	749	8.179	52.371	12.809	1.00104.72	C
ATOM	5845	O	ASN	749	8.660	51.366	12.287	1.00104.72	O
ATOM	5846	N	ILE	750	7.053	52.931	12.351	1.00 76.65	N
ATOM	5847	CA	ILE	750	6.314	52.208	11.359	1.00 76.65	C
ATOM	5848	CB	ILE	750	5.016	52.855	10.983	1.00 76.65	C
ATOM	5849	CG1	ILE	750	4.063	52.833	12.188	1.00 76.65	C
ATOM	5850	CG2	ILE	750	4.465	52.133	9.741	1.00 76.65	C
ATOM	5851	CD1	ILE	750	2.789	53.642	11.975	1.00 76.65	C
ATOM	5852	C	ILE	750	7.126	52.041	10.120	1.00 76.65	C
ATOM	5853	O	ILE	750	7.155	50.951	9.548	1.00 76.65	O
ATOM	5854	N	ALA	751	7.843	53.101	9.700	1.00 97.11	N
ATOM	5855	CA	ALA	751	8.517	53.044	8.435	1.00 97.11	C
ATOM	5856	CB	ALA	751	9.540	54.168	8.286	1.00 97.11	C
ATOM	5857	C	ALA	751	9.434	51.882	8.370	1.00 97.11	C
ATOM	5858	O	ALA	751	9.183	50.914	7.656	1.00 97.11	O
ATOM	5859	N	ASN	752	10.463	51.908	9.223	1.00110.22	N
ATOM	5860	CA	ASN	752	11.489	50.926	9.098	1.00110.22	C
ATOM	5861	CB	ASN	752	12.581	51.125	10.167	1.00110.22	C
ATOM	5862	CG	ASN	752	13.673	50.073	10.025	1.00110.22	C
ATOM	5863	OD1	ASN	752	14.764	50.368	9.540	1.00110.22	O
ATOM	5864	ND2	ASN	752	13.402	48.821	10.481	1.00110.22	N
ATOM	5865	C	ASN	752	10.914	49.575	9.305	1.00110.22	C
ATOM	5866	O	ASN	752	10.942	48.733	8.408	1.00110.22	O
ATOM	5867	N	LEU	753	10.362	49.334	10.505	1.00209.57	N
ATOM	5868	CA	LEU	753	9.932	47.992	10.733	1.00209.57	C
ATOM	5869	CB	LEU	753	9.562	47.696	12.194	1.00209.57	C
ATOM	5870	CG	LEU	753	10.786	47.576	13.112	1.00209.57	C
ATOM	5871	CD1	LEU	753	11.620	46.335	12.751	1.00209.57	C
ATOM	5872	CD2	LEU	753	11.613	48.870	13.113	1.00209.57	C
ATOM	5873	C	LEU	753	8.755	47.613	9.914	1.00209.57	C
ATOM	5874	O	LEU	753	8.891	46.804	9.003	1.00209.57	O
ATOM	5875	N	GLY	754	7.619	48.311	10.109	1.00 58.22	N
ATOM	5876	CA	GLY	754	6.375	47.819	9.587	1.00 58.22	C
ATOM	5877	C	GLY	754	6.449	47.598	8.113	1.00 58.22	C
ATOM	5878	O	GLY	754	6.113	46.517	7.628	1.00 58.22	O
ATOM	5879	N	THR	755	6.920	48.593	7.350	1.00142.95	N
ATOM	5880	CA	THR	755	6.948	48.343	5.941	1.00142.95	C
ATOM	5881	CB	THR	755	7.107	49.551	5.078	1.00142.95	C
ATOM	5882	OG1	THR	755	8.340	50.172	5.350	1.00142.95	O
ATOM	5883	CG2	THR	755	5.956	50.527	5.357	1.00142.95	C
ATOM	5884	C	THR	755	8.020	47.348	5.610	1.00142.95	C
ATOM	5885	O	THR	755	7.857	46.536	4.702	1.00142.95	O
ATOM	5886	N	GLY	756	9.155	47.382	6.333	1.00 38.58	N
ATOM	5887	CA	GLY	756	10.230	46.485	6.013	1.00 38.58	C
ATOM	5888	C	GLY	756	9.779	45.075	6.216	1.00 38.58	C
ATOM	5889	O	GLY	756	10.109	44.188	5.433	1.00 38.58	O
ATOM	5890	N	ILE	757	9.015	44.835	7.294	1.00105.06	N
ATOM	5891	CA	ILE	757	8.581	43.518	7.652	1.00105.06	C
ATOM	5892	CB	ILE	757	7.834	43.498	8.952	1.00105.06	C
ATOM	5893	CG1	ILE	757	8.719	44.036	10.092	1.00105.06	C
ATOM	5894	CG2	ILE	757	7.331	42.063	9.178	1.00105.06	C
ATOM	5895	CD1	ILE	757	10.006	43.243	10.312	1.00105.06	C
ATOM	5896	C	ILE	757	7.670	42.973	6.597	1.00105.06	C
ATOM	5897	O	ILE	757	7.790	41.817	6.197	1.00105.06	O
ATOM	5898	N	ILE	758	6.730	43.792	6.100	1.00 49.55	N
ATOM	5899	CA	ILE	758	5.812	43.274	5.127	1.00 49.55	C
ATOM	5900	CB	ILE	758	4.846	44.313	4.655	1.00 49.55	C
ATOM	5901	CG1	ILE	758	4.024	44.833	5.842	1.00 49.55	C
ATOM	5902	CG2	ILE	758	3.993	43.703	3.529	1.00 49.55	C
ATOM	5903	CD1	ILE	758	3.284	46.130	5.536	1.00 49.55	C
ATOM	5904	C	ILE	758	6.615	42.846	3.943	1.00 49.55	C
ATOM	5905	O	ILE	758	6.472	41.737	3.432	1.00 49.55	O
ATOM	5906	N	ILE	759	7.539	43.714	3.516	1.00 86.31	N
ATOM	5907	CA	ILE	759	8.377	43.432	2.394	1.00 86.31	C
ATOM	5908	CB	ILE	759	9.322	44.540	2.047	1.00 86.31	C
ATOM	5909	CG1	ILE	759	8.526	45.810	1.713	1.00 86.31	C
ATOM	5910	CG2	ILE	759	10.222	44.059	0.894	1.00 86.31	C
ATOM	5911	CD1	ILE	759	9.397	47.058	1.648	1.00 86.31	C
ATOM	5912	C	ILE	759	9.185	42.241	2.766	1.00 86.31	C
ATOM	5913	O	ILE	759	9.690	41.534	1.896	1.00 86.31	O

ATOM	5914	N	SER	760	9.404	42.065	4.084	1.00	50.51	N
ATOM	5915	CA	SER	760	10.151	40.954	4.591	1.00	50.51	C
ATOM	5916	CB	SER	760	10.392	40.991	6.111	1.00	50.51	C
ATOM	5917	OG	SER	760	11.222	42.092	6.447	1.00	50.51	O
ATOM	5918	C	SER	760	9.403	39.701	4.269	1.00	50.51	C
ATOM	5919	O	SER	760	10.006	38.639	4.121	1.00	50.51	O
ATOM	5920	N	PHE	761	8.061	39.784	4.164	1.00	94.89	N
ATOM	5921	CA	PHE	761	7.303	38.614	3.818	1.00	94.89	C
ATOM	5922	CB	PHE	761	5.788	38.867	3.734	1.00	94.89	C
ATOM	5923	CG	PHE	761	5.266	39.099	5.107	1.00	94.89	C
ATOM	5924	CD1	PHE	761	5.372	40.336	5.699	1.00	94.89	C
ATOM	5925	CD2	PHE	761	4.661	38.075	5.800	1.00	94.89	C
ATOM	5926	CE1	PHE	761	4.884	40.547	6.966	1.00	94.89	C
ATOM	5927	CE2	PHE	761	4.171	38.281	7.068	1.00	94.89	C
ATOM	5928	CZ	PHE	761	4.284	39.519	7.653	1.00	94.89	C
ATOM	5929	C	PHE	761	7.736	38.202	2.450	1.00	94.89	C
ATOM	5930	O	PHE	761	8.092	37.051	2.208	1.00	94.89	O
ATOM	5931	N	ILE	762	7.783	39.180	1.532	1.00	171.33	N
ATOM	5932	CA	ILE	762	8.155	38.955	0.167	1.00	171.33	C
ATOM	5933	CB	ILE	762	8.296	40.245	-0.584	1.00	171.33	C
ATOM	5934	CG1	ILE	762	6.932	40.912	-0.767	1.00	171.33	C
ATOM	5935	CG2	ILE	762	9.039	39.969	-1.894	1.00	171.33	C
ATOM	5936	CD1	ILE	762	5.969	40.057	-1.586	1.00	171.33	C
ATOM	5937	C	ILE	762	9.514	38.348	0.203	1.00	171.33	C
ATOM	5938	O	ILE	762	9.868	37.522	-0.637	1.00	171.33	O
ATOM	5939	N	TYR	763	10.333	38.799	1.163	1.00	177.49	N
ATOM	5940	CA	TYR	763	11.637	38.228	1.333	1.00	177.49	C
ATOM	5941	CB	TYR	763	12.318	38.618	2.641	1.00	177.49	C
ATOM	5942	CG	TYR	763	12.996	39.944	2.683	1.00	177.49	C
ATOM	5943	CD1	TYR	763	12.297	41.119	2.595	1.00	177.49	C
ATOM	5944	CD2	TYR	763	14.365	39.998	2.802	1.00	177.49	C
ATOM	5945	CE1	TYR	763	12.934	42.333	2.658	1.00	177.49	C
ATOM	5946	CE2	TYR	763	15.017	41.206	2.868	1.00	177.49	C
ATOM	5947	CZ	TYR	763	14.296	42.372	2.801	1.00	177.49	C
ATOM	5948	OH	TYR	763	14.952	43.615	2.876	1.00	177.49	O
ATOM	5949	C	TYR	763	11.469	36.747	1.452	1.00	177.49	C
ATOM	5950	O	TYR	763	10.513	36.277	2.069	1.00	177.49	O
ATOM	5951	N	GLY	764	12.407	35.970	0.867	1.00	70.87	N
ATOM	5952	CA	GLY	764	12.282	34.542	0.920	1.00	70.87	C
ATOM	5953	C	GLY	764	13.196	33.951	1.962	1.00	70.87	C
ATOM	5954	O	GLY	764	13.954	33.023	1.686	1.00	70.87	O
ATOM	5955	N	TRP	765	13.188	34.517	3.181	1.00	129.47	N
ATOM	5956	CA	TRP	765	13.755	33.880	4.342	1.00	129.47	C
ATOM	5957	CB	TRP	765	13.059	32.534	4.601	1.00	129.47	C
ATOM	5958	CG	TRP	765	11.555	32.644	4.693	1.00	129.47	C
ATOM	5959	CD2	TRP	765	10.805	32.748	5.913	1.00	129.47	C
ATOM	5960	CD1	TRP	765	10.644	32.660	3.677	1.00	129.47	C
ATOM	5961	NE1	TRP	765	9.373	32.772	4.186	1.00	129.47	N
ATOM	5962	CE2	TRP	765	9.457	32.827	5.561	1.00	129.47	C
ATOM	5963	CE3	TRP	765	11.206	32.777	7.217	1.00	129.47	C
ATOM	5964	CZ2	TRP	765	8.485	32.935	6.513	1.00	129.47	C
ATOM	5965	CZ3	TRP	765	10.223	32.887	8.175	1.00	129.47	C
ATOM	5966	CH2	TRP	765	8.889	32.965	7.830	1.00	129.47	C
ATOM	5967	C	TRP	765	15.231	33.586	4.226	1.00	129.47	C
ATOM	5968	O	TRP	765	15.727	32.743	4.972	1.00	129.47	O
ATOM	5969	N	GLN	766	15.957	34.097	3.215	1.00	152.22	N
ATOM	5970	CA	GLN	766	17.387	33.895	3.221	1.00	152.22	C
ATOM	5971	CB	GLN	766	17.909	33.564	1.819	1.00	152.22	C
ATOM	5972	CG	GLN	766	17.160	32.374	1.219	1.00	152.22	C
ATOM	5973	CD	GLN	766	17.060	31.307	2.300	1.00	152.22	C
ATOM	5974	OE1	GLN	766	18.065	30.877	2.863	1.00	152.22	O
ATOM	5975	NE2	GLN	766	15.808	30.874	2.609	1.00	152.22	N
ATOM	5976	C	GLN	766	18.166	35.077	3.740	1.00	152.22	C
ATOM	5977	O	GLN	766	19.250	34.940	4.306	1.00	152.22	O
ATOM	5978	N	LEU	767	17.736	36.272	3.294	1.00	190.88	N
ATOM	5979	CA	LEU	767	18.284	37.559	3.611	1.00	190.88	C
ATOM	5980	CB	LEU	767	18.200	38.542	2.437	1.00	190.88	C
ATOM	5981	CG	LEU	767	19.164	38.184	1.294	1.00	190.88	C
ATOM	5982	CD1	LEU	767	20.623	38.414	1.714	1.00	190.88	C
ATOM	5983	CD2	LEU	767	18.910	36.763	0.768	1.00	190.88	C
ATOM	5984	C	LEU	767	17.648	38.203	4.782	1.00	190.88	C
ATOM	5985	O	LEU	767	18.340	38.865	5.539	1.00	190.88	O
ATOM	5986	N	THR	768	16.318	38.043	4.952	1.00	87.06	N
ATOM	5987	CA	THR	768	15.590	38.750	5.974	1.00	87.06	C

ATOM	5988	CB	THR	768	14.246	38.159	6.237	1.00	87.06	C
ATOM	5989	OG1	THR	768	13.533	38.001	5.031	1.00	87.06	O
ATOM	5990	CG2	THR	768	13.476	39.105	7.173	1.00	87.06	C
ATOM	5991	C	THR	768	16.291	38.462	7.242	1.00	87.06	C
ATOM	5992	O	THR	768	16.698	39.359	7.979	1.00	87.06	O
ATOM	5993	N	LEU	769	16.482	37.160	7.475	1.00	131.67	N
ATOM	5994	CA	LEU	769	17.186	36.712	8.625	1.00	131.67	C
ATOM	5995	CB	LEU	769	17.140	35.186	8.808	1.00	131.67	C
ATOM	5996	CG	LEU	769	17.667	34.705	10.175	1.00	131.67	C
ATOM	5997	CD1	LEU	769	19.168	34.956	10.372	1.00	131.67	C
ATOM	5998	CD2	LEU	769	16.823	35.297	11.314	1.00	131.67	C
ATOM	5999	C	LEU	769	18.612	37.108	8.444	1.00	131.67	C
ATOM	6000	O	LEU	769	19.285	37.512	9.387	1.00	131.67	O
ATOM	6001	N	LEU	770	19.099	37.045	7.197	1.00	159.44	N
ATOM	6002	CA	LEU	770	20.483	37.268	6.924	1.00	159.44	C
ATOM	6003	CB	LEU	770	20.768	37.167	5.409	1.00	159.44	C
ATOM	6004	CG	LEU	770	22.253	37.176	4.995	1.00	159.44	C
ATOM	6005	CD1	LEU	770	22.399	36.885	3.497	1.00	159.44	C
ATOM	6006	CD2	LEU	770	22.954	38.488	5.361	1.00	159.44	C
ATOM	6007	C	LEU	770	20.899	38.617	7.463	1.00	159.44	C
ATOM	6008	O	LEU	770	21.958	38.720	8.073	1.00	159.44	O
ATOM	6009	N	LEU	771	20.111	39.681	7.199	1.00	130.35	N
ATOM	6010	CA	LEU	771	20.283	41.058	7.581	1.00	130.35	C
ATOM	6011	CB	LEU	771	19.396	42.010	6.783	1.00	130.35	C
ATOM	6012	CG	LEU	771	19.617	43.460	7.237	1.00	130.35	C
ATOM	6013	CD1	LEU	771	20.921	44.027	6.662	1.00	130.35	C
ATOM	6014	CD2	LEU	771	18.377	44.329	7.017	1.00	130.35	C
ATOM	6015	C	LEU	771	19.917	41.374	8.990	1.00	130.35	C
ATOM	6016	O	LEU	771	20.643	42.080	9.673	1.00	130.35	O
ATOM	6017	N	LEU	772	18.778	40.856	9.464	1.00	156.50	N
ATOM	6018	CA	LEU	772	18.235	41.209	10.742	1.00	156.50	C
ATOM	6019	CB	LEU	772	17.012	40.318	11.040	1.00	156.50	C
ATOM	6020	CG	LEU	772	16.396	40.436	12.441	1.00	156.50	C
ATOM	6021	CD1	LEU	772	17.260	39.765	13.522	1.00	156.50	C
ATOM	6022	CD2	LEU	772	16.061	41.897	12.765	1.00	156.50	C
ATOM	6023	C	LEU	772	19.291	40.928	11.748	1.00	156.50	C
ATOM	6024	O	LEU	772	19.384	41.598	12.769	1.00	156.50	O
ATOM	6025	N	ALA	773	20.100	39.890	11.529	1.00	48.92	N
ATOM	6026	CA	ALA	773	21.137	39.662	12.487	1.00	48.92	C
ATOM	6027	CB	ALA	773	21.948	38.395	12.178	1.00	48.92	C
ATOM	6028	C	ALA	773	22.097	40.816	12.456	1.00	48.92	C
ATOM	6029	O	ALA	773	22.454	41.371	13.494	1.00	48.92	O
ATOM	6030	N	ILE	774	22.495	41.223	11.235	1.00	109.90	N
ATOM	6031	CA	ILE	774	23.469	42.242	10.958	1.00	109.90	C
ATOM	6032	CB	ILE	774	23.724	42.397	9.484	1.00	109.90	C
ATOM	6033	CG1	ILE	774	24.305	41.097	8.903	1.00	109.90	C
ATOM	6034	CG2	ILE	774	24.637	43.618	9.280	1.00	109.90	C
ATOM	6035	CD1	ILE	774	25.656	40.712	9.507	1.00	109.90	C
ATOM	6036	C	ILE	774	23.062	43.592	11.471	1.00	109.90	C
ATOM	6037	O	ILE	774	23.832	44.229	12.188	1.00	109.90	O
ATOM	6038	N	VAL	775	21.839	44.063	11.157	1.00	60.81	N
ATOM	6039	CA	VAL	775	21.499	45.400	11.556	1.00	60.81	C
ATOM	6040	CB	VAL	775	20.154	45.852	11.047	1.00	60.81	C
ATOM	6041	CG1	VAL	775	19.856	47.246	11.622	1.00	60.81	C
ATOM	6042	CG2	VAL	775	20.162	45.800	9.509	1.00	60.81	C
ATOM	6043	C	VAL	775	21.555	45.489	13.049	1.00	60.81	C
ATOM	6044	O	VAL	775	22.201	46.396	13.564	1.00	60.81	O
ATOM	6045	N	PRO	776	20.955	44.602	13.792	1.00	102.29	N
ATOM	6046	CA	PRO	776	21.146	44.743	15.199	1.00	102.29	C
ATOM	6047	CD	PRO	776	19.566	44.265	13.534	1.00	102.29	C
ATOM	6048	CB	PRO	776	20.155	43.793	15.855	1.00	102.29	C
ATOM	6049	CG	PRO	776	18.952	43.894	14.898	1.00	102.29	C
ATOM	6050	C	PRO	776	22.562	44.708	15.685	1.00	102.29	C
ATOM	6051	O	PRO	776	22.861	45.521	16.553	1.00	102.29	O
ATOM	6052	N	ILE	777	23.469	43.844	15.179	1.00	174.31	N
ATOM	6053	CA	ILE	777	24.782	43.963	15.756	1.00	174.31	C
ATOM	6054	CB	ILE	777	25.793	42.859	15.545	1.00	174.31	C
ATOM	6055	CG1	ILE	777	26.192	42.636	14.086	1.00	174.31	C
ATOM	6056	CG2	ILE	777	25.231	41.599	16.212	1.00	174.31	C
ATOM	6057	CD1	ILE	777	25.144	41.855	13.321	1.00	174.31	C
ATOM	6058	C	ILE	777	25.428	45.248	15.347	1.00	174.31	C
ATOM	6059	O	ILE	777	26.069	45.901	16.166	1.00	174.31	O
ATOM	6060	N	ILE	778	25.302	45.650	14.069	1.00	45.44	N
ATOM	6061	CA	ILE	778	25.937	46.866	13.647	1.00	45.44	C

ATOM	6062	CB	ILE	778	25.796	47.118	12.172	1.00	45.44	C
ATOM	6063	CG1	ILE	778	24.318	47.264	11.778	1.00	45.44	C
ATOM	6064	CG2	ILE	778	26.536	45.997	11.423	1.00	45.44	C
ATOM	6065	CD1	ILE	778	24.121	47.772	10.350	1.00	45.44	C
ATOM	6066	C	ILE	778	25.329	48.015	14.395	1.00	45.44	C
ATOM	6067	O	ILE	778	26.041	48.902	14.860	1.00	45.44	O
ATOM	6068	N	ALA	779	23.990	48.032	14.535	1.00	31.94	N
ATOM	6069	CA	ALA	779	23.324	49.103	15.226	1.00	31.94	C
ATOM	6070	CB	ALA	779	21.794	48.939	15.246	1.00	31.94	C
ATOM	6071	C	ALA	779	23.799	49.090	16.640	1.00	31.94	C
ATOM	6072	O	ALA	779	24.111	50.132	17.217	1.00	31.94	O
ATOM	6073	N	ILE	780	23.914	47.883	17.220	1.00	100.23	N
ATOM	6074	CA	ILE	780	24.356	47.775	18.575	1.00	100.23	C
ATOM	6075	CB	ILE	780	24.470	46.364	19.088	1.00	100.23	C
ATOM	6076	CG1	ILE	780	23.082	45.724	19.266	1.00	100.23	C
ATOM	6077	CG2	ILE	780	25.283	46.402	20.392	1.00	100.23	C
ATOM	6078	CD1	ILE	780	22.187	46.466	20.255	1.00	100.23	C
ATOM	6079	C	ILE	780	25.706	48.398	18.628	1.00	100.23	C
ATOM	6080	O	ILE	780	26.062	49.010	19.630	1.00	100.23	O
ATOM	6081	N	ALA	781	26.497	48.247	17.550	1.00	51.51	N
ATOM	6082	CA	ALA	781	27.822	48.792	17.528	1.00	51.51	C
ATOM	6083	CB	ALA	781	28.553	48.515	16.205	1.00	51.51	C
ATOM	6084	C	ALA	781	27.754	50.278	17.695	1.00	51.51	C
ATOM	6085	O	ALA	781	28.489	50.828	18.510	1.00	51.51	O
ATOM	6086	N	GLY	782	26.830	50.966	16.991	1.00	40.69	N
ATOM	6087	CA	GLY	782	26.791	52.406	17.050	1.00	40.69	C
ATOM	6088	C	GLY	782	26.638	52.816	18.480	1.00	40.69	C
ATOM	6089	O	GLY	782	27.335	53.714	18.952	1.00	40.69	O
ATOM	6090	N	VAL	783	25.729	52.149	19.211	1.00	53.38	N
ATOM	6091	CA	VAL	783	25.528	52.455	20.597	1.00	53.38	C
ATOM	6092	CB	VAL	783	24.378	51.693	21.183	1.00	53.38	C
ATOM	6093	CG1	VAL	783	24.325	51.972	22.694	1.00	53.38	C
ATOM	6094	CG2	VAL	783	23.095	52.077	20.426	1.00	53.38	C
ATOM	6095	C	VAL	783	26.743	52.080	21.401	1.00	53.38	C
ATOM	6096	O	VAL	783	27.271	52.892	22.156	1.00	53.38	O
ATOM	6097	N	VAL	784	27.245	50.842	21.221	1.00	123.69	N
ATOM	6098	CA	VAL	784	28.306	50.302	22.031	1.00	123.69	C
ATOM	6099	CB	VAL	784	28.646	48.884	21.673	1.00	123.69	C
ATOM	6100	CG1	VAL	784	27.385	48.038	21.884	1.00	123.69	C
ATOM	6101	CG2	VAL	784	29.192	48.820	20.237	1.00	123.69	C
ATOM	6102	C	VAL	784	29.550	51.115	21.883	1.00	123.69	C
ATOM	6103	O	VAL	784	30.234	51.375	22.871	1.00	123.69	O
ATOM	6104	N	GLU	785	29.891	51.532	20.649	1.00	69.84	N
ATOM	6105	CA	GLU	785	31.097	52.289	20.483	1.00	69.84	C
ATOM	6106	CB	GLU	785	31.366	52.734	19.042	1.00	69.84	C
ATOM	6107	CG	GLU	785	32.658	53.547	18.949	1.00	69.84	C
ATOM	6108	CD	GLU	785	32.622	54.353	17.663	1.00	69.84	C
ATOM	6109	OE1	GLU	785	32.782	53.745	16.571	1.00	69.84	O
ATOM	6110	OE2	GLU	785	32.429	55.594	17.760	1.00	69.84	O
ATOM	6111	C	GLU	785	30.953	53.551	21.256	1.00	69.84	C
ATOM	6112	O	GLU	785	31.851	53.946	21.995	1.00	69.84	O
ATOM	6113	N	MET	786	29.790	54.207	21.128	1.00	119.52	N
ATOM	6114	CA	MET	786	29.603	55.439	21.829	1.00	119.52	C
ATOM	6115	CB	MET	786	28.203	56.041	21.639	1.00	119.52	C
ATOM	6116	CG	MET	786	27.759	56.814	22.883	1.00	119.52	C
ATOM	6117	SD	MET	786	28.798	58.230	23.335	1.00	119.52	S
ATOM	6118	CE	MET	786	28.485	58.025	25.112	1.00	119.52	C
ATOM	6119	C	MET	786	29.759	55.193	23.296	1.00	119.52	C
ATOM	6120	O	MET	786	30.423	55.961	23.987	1.00	119.52	O
ATOM	6121	N	LYS	787	29.167	54.100	23.808	1.00	114.98	N
ATOM	6122	CA	LYS	787	29.174	53.826	25.219	1.00	114.98	C
ATOM	6123	CB	LYS	787	28.368	52.550	25.544	1.00	114.98	C
ATOM	6124	CG	LYS	787	28.293	52.143	27.022	1.00	114.98	C
ATOM	6125	CD	LYS	787	29.598	51.621	27.628	1.00	114.98	C
ATOM	6126	CE	LYS	787	29.450	51.136	29.072	1.00	114.98	C
ATOM	6127	NZ	LYS	787	30.718	50.528	29.535	1.00	114.98	N
ATOM	6128	C	LYS	787	30.586	53.639	25.727	1.00	114.98	C
ATOM	6129	O	LYS	787	30.961	54.230	26.735	1.00	114.98	O
ATOM	6130	N	MET	788	31.425	52.822	25.056	1.00	86.09	N
ATOM	6131	CA	MET	788	32.775	52.581	25.518	1.00	86.09	C
ATOM	6132	CB	MET	788	33.528	51.544	24.665	1.00	86.09	C
ATOM	6133	CG	MET	788	35.002	51.384	25.052	1.00	86.09	C
ATOM	6134	SD	MET	788	35.308	50.588	26.657	1.00	86.09	S
ATOM	6135	CE	MET	788	37.102	50.869	26.617	1.00	86.09	C

ATOM	6136	C	MET	788	33.534	53.859	25.436	1.00	86.09	C
ATOM	6137	O	MET	788	34.384	54.151	26.277	1.00	86.09	O
ATOM	6138	N	LEU	789	33.230	54.652	24.397	1.00	115.31	N
ATOM	6139	CA	LEU	789	33.871	55.904	24.162	1.00	115.31	C
ATOM	6140	CB	LEU	789	33.289	56.590	22.906	1.00	115.31	C
ATOM	6141	CG	LEU	789	33.945	57.911	22.445	1.00	115.31	C
ATOM	6142	CD1	LEU	789	33.261	58.418	21.165	1.00	115.31	C
ATOM	6143	CD2	LEU	789	33.958	58.996	23.535	1.00	115.31	C
ATOM	6144	C	LEU	789	33.593	56.737	25.372	1.00	115.31	C
ATOM	6145	O	LEU	789	34.466	57.476	25.819	1.00	115.31	O
ATOM	6146	N	SER	790	32.364	56.660	25.925	1.00	99.83	N
ATOM	6147	CA	SER	790	32.052	57.449	27.082	1.00	99.83	C
ATOM	6148	CB	SER	790	30.546	57.540	27.415	1.00	99.83	C
ATOM	6149	OG	SER	790	30.047	56.314	27.925	1.00	99.83	O
ATOM	6150	C	SER	790	32.782	56.926	28.289	1.00	99.83	C
ATOM	6151	O	SER	790	33.184	57.709	29.146	1.00	99.83	O
ATOM	6152	N	GLY	791	32.990	55.597	28.403	1.00	35.97	N
ATOM	6153	CA	GLY	791	33.630	55.075	29.583	1.00	35.97	C
ATOM	6154	C	GLY	791	35.019	55.620	29.688	1.00	35.97	C
ATOM	6155	O	GLY	791	35.436	56.065	30.755	1.00	35.97	O
ATOM	6156	N	GLN	792	35.786	55.587	28.583	1.00	77.23	N
ATOM	6157	CA	GLN	792	37.117	56.118	28.609	1.00	77.23	C
ATOM	6158	CB	GLN	792	37.917	55.826	27.329	1.00	77.23	C
ATOM	6159	CG	GLN	792	38.517	54.420	27.306	1.00	77.23	C
ATOM	6160	CD	GLN	792	39.740	54.465	28.213	1.00	77.23	C
ATOM	6161	OE1	GLN	792	40.300	55.531	28.461	1.00	77.23	O
ATOM	6162	NE2	GLN	792	40.173	53.283	28.724	1.00	77.23	N
ATOM	6163	C	GLN	792	37.031	57.596	28.776	1.00	77.23	C
ATOM	6164	O	GLN	792	37.830	58.181	29.501	1.00	77.23	O
ATOM	6165	N	ALA	793	36.050	58.245	28.120	1.00	62.42	N
ATOM	6166	CA	ALA	793	35.957	59.676	28.197	1.00	62.42	C
ATOM	6167	CB	ALA	793	34.776	60.243	27.393	1.00	62.42	C
ATOM	6168	C	ALA	793	35.749	60.047	29.632	1.00	62.42	C
ATOM	6169	O	ALA	793	36.404	60.959	30.125	1.00	62.42	O
ATOM	6170	N	LEU	794	34.845	59.340	30.342	1.00	124.67	N
ATOM	6171	CA	LEU	794	34.516	59.645	31.709	1.00	124.67	C
ATOM	6172	CB	LEU	794	33.301	58.834	32.212	1.00	124.67	C
ATOM	6173	CG	LEU	794	32.776	59.225	33.612	1.00	124.67	C
ATOM	6174	CD1	LEU	794	33.731	58.817	34.745	1.00	124.67	C
ATOM	6175	CD2	LEU	794	32.408	60.717	33.661	1.00	124.67	C
ATOM	6176	C	LEU	794	35.681	59.365	32.614	1.00	124.67	C
ATOM	6177	O	LEU	794	36.007	60.187	33.467	1.00	124.67	O
ATOM	6178	N	LYS	795	36.356	58.207	32.455	1.00	141.84	N
ATOM	6179	CA	LYS	795	37.417	57.875	33.366	1.00	141.84	C
ATOM	6180	CB	LYS	795	38.069	56.509	33.096	1.00	141.84	C
ATOM	6181	CG	LYS	795	38.816	56.428	31.765	1.00	141.84	C
ATOM	6182	CD	LYS	795	39.781	55.243	31.695	1.00	141.84	C
ATOM	6183	CE	LYS	795	41.093	55.488	32.445	1.00	141.84	C
ATOM	6184	NZ	LYS	795	40.825	55.683	33.888	1.00	141.84	N
ATOM	6185	C	LYS	795	38.486	58.910	33.240	1.00	141.84	C
ATOM	6186	O	LYS	795	39.017	59.380	34.244	1.00	141.84	O
ATOM	6187	N	ASP	796	38.824	59.293	31.994	1.00	122.04	N
ATOM	6188	CA	ASP	796	39.829	60.290	31.742	1.00	122.04	C
ATOM	6189	CB	ASP	796	40.124	60.485	30.248	1.00	122.04	C
ATOM	6190	CG	ASP	796	40.927	59.284	29.776	1.00	122.04	C
ATOM	6191	OD1	ASP	796	41.944	58.949	30.441	1.00	122.04	O
ATOM	6192	OD2	ASP	796	40.528	58.677	28.748	1.00	122.04	O
ATOM	6193	C	ASP	796	39.332	61.575	32.279	1.00	122.04	C
ATOM	6194	O	ASP	796	40.111	62.356	32.817	1.00	122.04	O
ATOM	6195	N	LYS	797	38.011	61.808	32.167	1.00	166.49	N
ATOM	6196	CA	LYS	797	37.444	63.027	32.648	1.00	166.49	C
ATOM	6197	CB	LYS	797	35.903	63.079	32.606	1.00	166.49	C
ATOM	6198	CG	LYS	797	35.289	63.205	31.213	1.00	166.49	C
ATOM	6199	CD	LYS	797	35.722	64.456	30.448	1.00	166.49	C
ATOM	6200	CE	LYS	797	35.092	64.556	29.059	1.00	166.49	C
ATOM	6201	NZ	LYS	797	35.442	63.359	28.263	1.00	166.49	N
ATOM	6202	C	LYS	797	37.799	63.062	34.092	1.00	166.49	C
ATOM	6203	O	LYS	797	38.016	64.144	34.619	1.00	166.49	O
ATOM	6204	N	LYS	798	37.811	61.890	34.771	1.00	164.97	N
ATOM	6205	CA	LYS	798	38.150	61.795	36.169	1.00	164.97	C
ATOM	6206	CB	LYS	798	37.713	60.474	36.817	1.00	164.97	C
ATOM	6207	CG	LYS	798	36.237	60.509	37.212	1.00	164.97	C
ATOM	6208	CD	LYS	798	35.938	61.598	38.249	1.00	164.97	C
ATOM	6209	CE	LYS	798	34.451	61.807	38.543	1.00	164.97	C

ATOM	6210	NZ	LYS	798	33.836	62.631	37.478	1.00164.97
ATOM	6211	C	LYS	798	39.610	62.030	36.480	1.00164.97
ATOM	6212	O	LYS	798	39.925	62.758	37.416	1.00164.97
ATOM	6213	N	GLU	799	40.562	61.430	35.738	1.00 94.07
ATOM	6214	CA	GLU	799	41.949	61.626	36.085	1.00 94.07
ATOM	6215	CB	GLU	799	42.867	60.819	35.155	1.00 94.07
ATOM	6216	CG	GLU	799	42.659	59.308	35.278	1.00 94.07
ATOM	6217	CD	GLU	799	43.163	58.651	34.000	1.00 94.07
ATOM	6218	OE1	GLU	799	43.518	59.398	33.049	1.00 94.07
ATOM	6219	OE2	GLU	799	43.187	57.392	33.955	1.00 94.07
ATOM	6220	C	GLU	799	42.256	63.074	35.881	1.00 94.07
ATOM	6221	O	GLU	799	42.804	63.743	36.757	1.00 94.07
ATOM	6222	N	LEU	800	41.845	63.586	34.706	1.00163.24
ATOM	6223	CA	LEU	800	42.015	64.947	34.299	1.00163.24
ATOM	6224	CB	LEU	800	41.519	65.230	32.861	1.00163.24
ATOM	6225	CG	LEU	800	40.002	65.084	32.608	1.00163.24
ATOM	6226	CD1	LEU	800	39.185	66.247	33.198	1.00163.24
ATOM	6227	CD2	LEU	800	39.720	64.854	31.114	1.00163.24
ATOM	6228	C	LEU	800	41.215	65.733	35.259	1.00163.24
ATOM	6229	O	LEU	800	41.538	66.879	35.511	1.00163.24
ATOM	6230	N	GLU	801	40.129	65.145	35.789	1.00164.20
ATOM	6231	CA	GLU	801	39.265	65.771	36.748	1.00164.20
ATOM	6232	CB	GLU	801	38.154	64.837	37.253	1.00164.20
ATOM	6233	CG	GLU	801	37.345	65.384	38.424	1.00164.20
ATOM	6234	CD	GLU	801	36.085	66.022	37.868	1.00164.20
ATOM	6235	OE1	GLU	801	35.971	66.120	36.617	1.00164.20
ATOM	6236	OE2	GLU	801	35.211	66.410	38.688	1.00164.20
ATOM	6237	C	GLU	801	40.084	66.033	37.948	1.00164.20
ATOM	6238	O	GLU	801	39.902	67.042	38.617	1.00164.20
ATOM	6239	N	GLY	802	40.994	65.108	38.283	1.00 70.28
ATOM	6240	CA	GLY	802	41.754	65.350	39.458	1.00 70.28
ATOM	6241	C	GLY	802	42.528	66.615	39.261	1.00 70.28
ATOM	6242	O	GLY	802	42.481	67.510	40.104	1.00 70.28
ATOM	6243	N	SER	803	43.240	66.720	38.121	1.00 90.54
ATOM	6244	CA	SER	803	44.065	67.861	37.830	1.00 90.54
ATOM	6245	CB	SER	803	44.962	67.663	36.595	1.00 90.54
ATOM	6246	OG	SER	803	45.887	66.609	36.813	1.00 90.54
ATOM	6247	C	SER	803	43.245	69.098	37.566	1.00 90.54
ATOM	6248	O	SER	803	43.347	70.104	38.250	1.00 90.54
ATOM	6249	N	GLY	804	42.369	69.065	36.563	1.00 84.02
ATOM	6250	CA	GLY	804	41.594	70.193	36.151	1.00 84.02
ATOM	6251	C	GLY	804	40.731	70.629	37.262	1.00 84.02
ATOM	6252	O	GLY	804	40.511	71.825	37.419	1.00 84.02
ATOM	6253	N	LYS	805	40.186	69.683	38.043	1.00143.55
ATOM	6254	CA	LYS	805	39.327	70.150	39.075	1.00143.55
ATOM	6255	CB	LYS	805	38.630	69.069	39.916	1.00143.55
ATOM	6256	CG	LYS	805	37.505	69.623	40.793	1.00143.55
ATOM	6257	CD	LYS	805	36.554	68.550	41.324	1.00143.55
ATOM	6258	CE	LYS	805	35.366	69.124	42.098	1.00143.55
ATOM	6259	NZ	LYS	805	34.396	68.053	42.415	1.00143.55
ATOM	6260	C	LYS	805	40.181	70.959	39.987	1.00143.55
ATOM	6261	O	LYS	805	39.723	71.975	40.496	1.00143.55
ATOM	6262	N	ILE	806	41.437	70.520	40.224	1.00249.16
ATOM	6263	CA	ILE	806	42.332	71.259	41.059	1.00249.16
ATOM	6264	CB	ILE	806	43.458	70.465	41.689	1.00249.16
ATOM	6265	CG1	ILE	806	44.092	71.320	42.775	1.00249.16
ATOM	6266	CG2	ILE	806	44.482	69.924	40.691	1.00249.16
ATOM	6267	CD1	ILE	806	45.071	70.523	43.635	1.00249.16
ATOM	6268	C	ILE	806	42.785	72.546	40.429	1.00249.16
ATOM	6269	O	ILE	806	42.972	73.550	41.112	1.00249.16
ATOM	6270	N	ALA	807	43.013	72.559	39.108	1.00 94.99
ATOM	6271	CA	ALA	807	43.389	73.772	38.437	1.00 94.99
ATOM	6272	CB	ALA	807	43.652	73.572	36.935	1.00 94.99
ATOM	6273	C	ALA	807	42.242	74.725	38.581	1.00 94.99
ATOM	6274	O	ALA	807	42.436	75.936	38.680	1.00 94.99
ATOM	6275	N	THR	808	41.007	74.188	38.531	1.00100.86
ATOM	6276	CA	THR	808	39.799	74.940	38.710	1.00100.86
ATOM	6277	CB	THR	808	38.578	74.126	38.406	1.00100.86
ATOM	6278	OG1	THR	808	38.635	73.644	37.072	1.00100.86
ATOM	6279	CG2	THR	808	37.341	75.013	38.585	1.00100.86
ATOM	6280	C	THR	808	39.752	75.348	40.132	1.00100.86
ATOM	6281	O	THR	808	39.273	76.431	40.454	1.00100.86
ATOM	6282	N	GLU	809	40.258	74.479	41.025	1.00180.93
ATOM	6283	CA	GLU	809	40.224	74.800	42.408	1.00180.93

ATOM	6284	CB	GLU	809	41.016	73.843	43.313	1.00180.93	C
ATOM	6285	CG	GLU	809	40.381	72.489	43.608	1.00180.93	C
ATOM	6286	CD	GLU	809	41.318	71.806	44.598	1.00180.93	C
ATOM	6287	OE1	GLU	809	42.466	72.302	44.759	1.00180.93	O
ATOM	6288	OE2	GLU	809	40.900	70.789	45.212	1.00180.93	O
ATOM	6289	C	GLU	809	40.949	76.080	42.548	1.00180.93	C
ATOM	6290	O	GLU	809	40.425	77.011	43.145	1.00180.93	O
ATOM	6291	N	ALA	810	42.162	76.160	41.974	1.00137.23	N
ATOM	6292	CA	ALA	810	42.924	77.359	42.118	1.00137.23	C
ATOM	6293	CB	ALA	810	44.386	77.196	41.663	1.00137.23	C
ATOM	6294	C	ALA	810	42.338	78.522	41.370	1.00137.23	C
ATOM	6295	O	ALA	810	42.007	79.540	41.965	1.00137.23	O
ATOM	6296	N	ILE	811	42.096	78.393	40.055	1.00114.24	N
ATOM	6297	CA	ILE	811	41.673	79.556	39.326	1.00114.24	C
ATOM	6298	CB	ILE	811	41.541	79.329	37.857	1.00114.24	C
ATOM	6299	CG1	ILE	811	40.438	78.307	37.578	1.00114.24	C
ATOM	6300	CG2	ILE	811	42.921	78.922	37.313	1.00114.24	C
ATOM	6301	CD1	ILE	811	40.011	78.319	36.120	1.00114.24	C
ATOM	6302	C	ILE	811	40.334	79.990	39.844	1.00114.24	C
ATOM	6303	O	ILE	811	40.082	81.182	40.002	1.00114.24	O
ATOM	6304	N	GLU	812	39.434	79.026	40.122	1.00159.66	N
ATOM	6305	CA	GLU	812	38.122	79.332	40.613	1.00159.66	C
ATOM	6306	CB	GLU	812	37.164	78.144	40.777	1.00159.66	C
ATOM	6307	CG	GLU	812	36.520	77.703	39.466	1.00159.66	C
ATOM	6308	CD	GLU	812	35.346	76.800	39.812	1.00159.66	C
ATOM	6309	OE1	GLU	812	35.131	76.550	41.028	1.00159.66	O
ATOM	6310	OE2	GLU	812	34.649	76.347	38.865	1.00159.66	O
ATOM	6311	C	GLU	812	38.272	79.943	41.936	1.00159.66	C
ATOM	6312	O	GLU	812	37.426	80.719	42.370	1.00159.66	O
ATOM	6313	N	ASN	813	39.333	79.547	42.640	1.00254.70	N
ATOM	6314	CA	ASN	813	39.533	80.104	43.922	1.00254.70	C
ATOM	6315	CB	ASN	813	39.907	79.064	44.996	1.00254.70	C
ATOM	6316	CG	ASN	813	38.685	78.211	45.317	1.00254.70	C
ATOM	6317	OD1	ASN	813	37.602	78.725	45.590	1.00254.70	O
ATOM	6318	ND2	ASN	813	38.864	76.863	45.296	1.00254.70	N
ATOM	6319	C	ASN	813	40.675	81.048	43.821	1.00254.70	C
ATOM	6320	O	ASN	813	41.720	80.778	44.398	1.00254.70	O
ATOM	6321	N	PHE	814	40.454	82.271	43.267	1.00194.89	N
ATOM	6322	CA	PHE	814	41.432	83.327	43.089	1.00194.89	C
ATOM	6323	CB	PHE	814	40.906	84.584	42.360	1.00194.89	C
ATOM	6324	CG	PHE	814	39.946	85.353	43.206	1.00194.89	C
ATOM	6325	CD1	PHE	814	40.403	86.239	44.158	1.00194.89	C
ATOM	6326	CD2	PHE	814	38.588	85.221	43.029	1.00194.89	C
ATOM	6327	CE1	PHE	814	39.530	86.958	44.937	1.00194.89	C
ATOM	6328	CE2	PHE	814	37.707	85.939	43.804	1.00194.89	C
ATOM	6329	CZ	PHE	814	38.177	86.806	44.762	1.00194.89	C
ATOM	6330	C	PHE	814	41.876	83.719	44.456	1.00194.89	C
ATOM	6331	O	PHE	814	42.850	84.441	44.652	1.00194.89	O
ATOM	6332	N	ARG	815	41.119	83.213	45.436	1.00342.48	N
ATOM	6333	CA	ARG	815	41.235	83.282	46.837	1.00342.48	C
ATOM	6334	CB	ARG	815	40.199	82.432	47.593	1.00342.48	C
ATOM	6335	CG	ARG	815	38.795	83.026	47.547	1.00342.48	C
ATOM	6336	CD	ARG	815	38.219	83.075	46.136	1.00342.48	C
ATOM	6337	NE	ARG	815	37.478	81.805	45.918	1.00342.48	N
ATOM	6338	CZ	ARG	815	36.685	81.694	44.816	1.00342.48	C
ATOM	6339	NH1	ARG	815	36.641	82.726	43.925	1.00342.48	N
ATOM	6340	NH2	ARG	815	35.954	80.562	44.598	1.00342.48	N
ATOM	6341	C	ARG	815	42.590	82.780	47.258	1.00342.48	C
ATOM	6342	O	ARG	815	42.814	82.564	48.445	1.00342.48	O
ATOM	6343	N	THR	816	43.394	82.277	46.306	1.00259.79	N
ATOM	6344	CA	THR	816	44.776	81.930	46.479	1.00259.79	C
ATOM	6345	CB	THR	816	45.234	80.970	45.422	1.00259.79	C
ATOM	6346	OG1	THR	816	45.361	81.609	44.160	1.00259.79	O
ATOM	6347	CG2	THR	816	44.150	79.893	45.304	1.00259.79	C
ATOM	6348	C	THR	816	45.680	83.129	46.388	1.00259.79	C
ATOM	6349	O	THR	816	46.494	83.370	47.276	1.00259.79	O
ATOM	6350	N	VAL	817	45.486	83.981	45.346	1.00170.89	N
ATOM	6351	CA	VAL	817	46.287	85.132	45.010	1.00170.89	C
ATOM	6352	CB	VAL	817	45.801	85.889	43.808	1.00170.89	C
ATOM	6353	CG1	VAL	817	44.478	86.589	44.160	1.00170.89	C
ATOM	6354	CG2	VAL	817	46.911	86.856	43.363	1.00170.89	C
ATOM	6355	C	VAL	817	46.137	86.011	46.183	1.00170.89	C
ATOM	6356	O	VAL	817	46.941	86.908	46.429	1.00170.89	O
ATOM	6357	N	VAL	818	45.042	85.772	46.920	1.00209.04	N

ATOM	6358	CA	VAL	818	44.811	86.515	48.090	1.00209.04	C
ATOM	6359	CB	VAL	818	43.582	86.126	48.868	1.00209.04	C
ATOM	6360	CG1	VAL	818	43.807	84.807	49.613	1.00209.04	C
ATOM	6361	CG2	VAL	818	43.240	87.294	49.805	1.00209.04	C
ATOM	6362	C	VAL	818	46.022	86.385	48.961	1.00209.04	C
ATOM	6363	O	VAL	818	46.460	87.390	49.508	1.00209.04	O
ATOM	6364	N	SER	819	46.552	85.159	49.179	1.00127.71	N
ATOM	6365	CA	SER	819	47.763	84.952	49.924	1.00127.71	C
ATOM	6366	CB	SER	819	47.750	83.644	50.734	1.00127.71	C
ATOM	6367	OG	SER	819	47.575	82.529	49.875	1.00127.71	O
ATOM	6368	C	SER	819	48.980	84.942	49.026	1.00127.71	C
ATOM	6369	O	SER	819	50.051	85.397	49.415	1.00127.71	O
ATOM	6370	N	LEU	820	48.850	84.360	47.813	1.00183.40	N
ATOM	6371	CA	LEU	820	49.884	84.240	46.808	1.00183.40	C
ATOM	6372	CB	LEU	820	50.402	85.639	46.379	1.00183.40	C
ATOM	6373	CG	LEU	820	51.517	85.718	45.311	1.00183.40	C
ATOM	6374	CD1	LEU	820	51.527	87.113	44.666	1.00183.40	C
ATOM	6375	CD2	LEU	820	52.912	85.453	45.901	1.00183.40	C
ATOM	6376	C	LEU	820	50.967	83.333	47.321	1.00183.40	C
ATOM	6377	O	LEU	820	51.948	83.020	46.649	1.00183.40	O
ATOM	6378	N	THR	821	50.707	82.770	48.501	1.00258.21	N
ATOM	6379	CA	THR	821	51.581	81.943	49.266	1.00258.21	C
ATOM	6380	CB	THR	821	51.058	81.817	50.670	1.00258.21	C
ATOM	6381	OG1	THR	821	52.026	81.241	51.524	1.00258.21	O
ATOM	6382	CG2	THR	821	49.768	80.995	50.672	1.00258.21	C
ATOM	6383	C	THR	821	51.850	80.579	48.633	1.00258.21	C
ATOM	6384	O	THR	821	52.571	79.806	49.254	1.00258.21	O
ATOM	6385	N	GLN	822	51.057	80.128	47.620	1.00308.25	N
ATOM	6386	CA	GLN	822	51.163	78.908	46.821	1.00308.25	C
ATOM	6387	CB	GLN	822	49.847	78.130	46.830	1.00308.25	C
ATOM	6388	CG	GLN	822	49.380	77.721	48.228	1.00308.25	C
ATOM	6389	CD	GLN	822	48.595	78.883	48.825	1.00308.25	C
ATOM	6390	OE1	GLN	822	48.202	78.848	49.990	1.00308.25	O
ATOM	6391	NE2	GLN	822	48.349	79.943	48.008	1.00308.25	N
ATOM	6392	C	GLN	822	51.612	78.940	45.360	1.00308.25	C
ATOM	6393	O	GLN	822	51.994	77.894	44.832	1.00308.25	O
ATOM	6394	N	GLU	823	51.590	80.092	44.655	1.00240.75	N
ATOM	6395	CA	GLU	823	51.372	80.152	43.213	1.00240.75	C
ATOM	6396	CB	GLU	823	51.910	81.471	42.629	1.00240.75	C
ATOM	6397	CG	GLU	823	51.421	82.741	43.333	1.00240.75	C
ATOM	6398	CD	GLU	823	49.911	82.853	43.200	1.00240.75	C
ATOM	6399	OE1	GLU	823	49.281	81.865	42.740	1.00240.75	O
ATOM	6400	OE2	GLU	823	49.367	83.929	43.564	1.00240.75	O
ATOM	6401	C	GLU	823	52.000	79.069	42.361	1.00240.75	C
ATOM	6402	O	GLU	823	51.311	78.146	41.913	1.00240.75	O
ATOM	6403	N	GLN	824	53.318	79.094	42.135	1.00114.68	N
ATOM	6404	CA	GLN	824	53.857	78.086	41.266	1.00114.68	C
ATOM	6405	CB	GLN	824	55.352	78.277	40.964	1.00114.68	C
ATOM	6406	CG	GLN	824	55.856	77.350	39.857	1.00114.68	C
ATOM	6407	CD	GLN	824	55.169	77.766	38.562	1.00114.68	C
ATOM	6408	OE1	GLN	824	55.336	78.887	38.084	1.00114.68	O
ATOM	6409	NE2	GLN	824	54.363	76.839	37.980	1.00114.68	N
ATOM	6410	C	GLN	824	53.682	76.780	41.953	1.00114.68	C
ATOM	6411	O	GLN	824	53.370	75.773	41.315	1.00114.68	O
ATOM	6412	N	LYS	825	53.806	76.817	43.297	1.00195.04	N
ATOM	6413	CA	LYS	825	53.733	75.647	44.119	1.00195.04	C
ATOM	6414	CB	LYS	825	53.740	75.956	45.632	1.00195.04	C
ATOM	6415	CG	LYS	825	53.730	74.729	46.551	1.00195.04	C
ATOM	6416	CD	LYS	825	52.451	73.890	46.481	1.00195.04	C
ATOM	6417	CE	LYS	825	51.354	74.349	47.445	1.00195.04	C
ATOM	6418	NZ	LYS	825	51.753	74.056	48.838	1.00195.04	N
ATOM	6419	C	LYS	825	52.454	74.973	43.741	1.00195.04	C
ATOM	6420	O	LYS	825	52.397	73.747	43.661	1.00195.04	O
ATOM	6421	N	PHE	826	51.388	75.755	43.481	1.00250.51	N
ATOM	6422	CA	PHE	826	50.171	75.123	43.064	1.00250.51	C
ATOM	6423	CB	PHE	826	48.943	76.030	42.887	1.00250.51	C
ATOM	6424	CG	PHE	826	48.148	76.124	44.136	1.00250.51	C
ATOM	6425	CD1	PHE	826	47.661	74.976	44.718	1.00250.51	C
ATOM	6426	CD2	PHE	826	47.904	77.337	44.732	1.00250.51	C
ATOM	6427	CE1	PHE	826	46.918	75.038	45.870	1.00250.51	C
ATOM	6428	CE2	PHE	826	47.157	77.405	45.882	1.00250.51	C
ATOM	6429	CZ	PHE	826	46.663	76.257	46.450	1.00250.51	C
ATOM	6430	C	PHE	826	50.196	74.424	41.743	1.00250.51	C
ATOM	6431	O	PHE	826	50.150	73.196	41.685	1.00250.51	O

ATOM	6432	N	GLU	827	50.366	75.194	40.647	1.00151.57	N
ATOM	6433	CA	GLU	827	50.223	74.676	39.306	1.00151.57	C
ATOM	6434	CB	GLU	827	50.559	75.726	38.230	1.00151.57	C
ATOM	6435	CG	GLU	827	49.587	76.910	38.186	1.00151.57	C
ATOM	6436	CD	GLU	827	48.321	76.467	37.468	1.00151.57	C
ATOM	6437	OE1	GLU	827	48.301	75.300	36.999	1.00151.57	O
ATOM	6438	OE2	GLU	827	47.363	77.281	37.378	1.00151.57	O
ATOM	6439	C	GLU	827	51.215	73.581	39.196	1.00151.57	C
ATOM	6440	O	GLU	827	51.048	72.638	38.421	1.00151.57	O
ATOM	6441	N	HIS	828	52.287	73.711	39.994	1.00145.43	N
ATOM	6442	CA	HIS	828	53.351	72.762	39.995	1.00145.43	C
ATOM	6443	ND1	HIS	828	56.704	72.709	39.830	1.00145.43	N
ATOM	6444	CG	HIS	828	55.733	72.354	40.740	1.00145.43	C
ATOM	6445	CB	HIS	828	54.478	73.143	40.969	1.00145.43	C
ATOM	6446	NE2	HIS	828	57.393	70.826	40.791	1.00145.43	N
ATOM	6447	CD2	HIS	828	56.170	71.202	41.319	1.00145.43	C
ATOM	6448	CE1	HIS	828	57.673	71.761	39.901	1.00145.43	C
ATOM	6449	C	HIS	828	52.838	71.417	40.396	1.00145.43	C
ATOM	6450	O	HIS	828	53.125	70.417	39.738	1.00145.43	O
ATOM	6451	N	MET	829	52.014	71.366	41.459	1.00110.69	N
ATOM	6452	CA	MET	829	51.524	70.106	41.935	1.00110.69	C
ATOM	6453	CB	MET	829	50.547	70.258	43.113	1.00110.69	C
ATOM	6454	CG	MET	829	51.202	70.853	44.362	1.00110.69	C
ATOM	6455	SD	MET	829	50.090	71.059	45.786	1.00110.69	S
ATOM	6456	CE	MET	829	49.370	72.624	45.221	1.00110.69	C
ATOM	6457	C	MET	829	50.777	69.492	40.790	1.00110.69	C
ATOM	6458	O	MET	829	50.809	68.281	40.563	1.00110.69	O
ATOM	6459	N	TYR	830	50.094	70.347	40.017	1.00134.67	N
ATOM	6460	CA	TYR	830	49.299	69.912	38.905	1.00134.67	C
ATOM	6461	CB	TYR	830	48.476	71.034	38.251	1.00134.67	C
ATOM	6462	CG	TYR	830	47.790	71.737	39.366	1.00134.67	C
ATOM	6463	CD1	TYR	830	47.341	71.032	40.453	1.00134.67	C
ATOM	6464	CD2	TYR	830	47.561	73.092	39.306	1.00134.67	C
ATOM	6465	CE1	TYR	830	46.704	71.686	41.476	1.00134.67	C
ATOM	6466	CE2	TYR	830	46.919	73.748	40.328	1.00134.67	C
ATOM	6467	CZ	TYR	830	46.490	73.041	41.422	1.00134.67	C
ATOM	6468	OH	TYR	830	45.828	73.697	42.481	1.00134.67	O
ATOM	6469	C	TYR	830	50.178	69.347	37.845	1.00134.67	C
ATOM	6470	O	TYR	830	49.759	68.475	37.085	1.00134.67	O
ATOM	6471	N	ALA	831	51.412	69.866	37.731	1.00 71.07	N
ATOM	6472	CA	ALA	831	52.254	69.398	36.671	1.00 71.07	C
ATOM	6473	CB	ALA	831	53.653	70.035	36.698	1.00 71.07	C
ATOM	6474	C	ALA	831	52.424	67.923	36.828	1.00 71.07	C
ATOM	6475	O	ALA	831	52.398	67.172	35.852	1.00 71.07	O
ATOM	6476	N	GLN	832	52.589	67.464	38.077	1.00 72.85	N
ATOM	6477	CA	GLN	832	52.802	66.063	38.282	1.00 72.85	C
ATOM	6478	CB	GLN	832	53.133	65.733	39.744	1.00 72.85	C
ATOM	6479	CG	GLN	832	54.381	66.456	40.252	1.00 72.85	C
ATOM	6480	CD	GLN	832	55.559	66.041	39.382	1.00 72.85	C
ATOM	6481	OE1	GLN	832	55.546	66.232	38.167	1.00 72.85	O
ATOM	6482	NE2	GLN	832	56.610	65.459	40.019	1.00 72.85	N
ATOM	6483	C	GLN	832	51.583	65.277	37.917	1.00 72.85	C
ATOM	6484	O	GLN	832	51.665	64.258	37.228	1.00 72.85	O
ATOM	6485	N	SER	833	50.408	65.772	38.339	1.00114.26	N
ATOM	6486	CA	SER	833	49.176	65.057	38.171	1.00114.26	C
ATOM	6487	CB	SER	833	47.969	65.924	38.552	1.00114.26	C
ATOM	6488	OG	SER	833	48.186	66.507	39.827	1.00114.26	O
ATOM	6489	C	SER	833	49.022	64.747	36.730	1.00114.26	C
ATOM	6490	O	SER	833	48.882	63.593	36.341	1.00114.26	O
ATOM	6491	N	LEU	834	49.167	65.773	35.891	1.00189.64	N
ATOM	6492	CA	LEU	834	48.905	65.655	34.493	1.00189.64	C
ATOM	6493	CB	LEU	834	49.167	67.003	33.809	1.00189.64	C
ATOM	6494	CG	LEU	834	48.717	67.125	32.347	1.00189.64	C
ATOM	6495	CD1	LEU	834	47.215	66.848	32.176	1.00189.64	C
ATOM	6496	CD2	LEU	834	49.089	68.518	31.826	1.00189.64	C
ATOM	6497	C	LEU	834	49.786	64.591	33.941	1.00189.64	C
ATOM	6498	O	LEU	834	49.353	63.797	33.106	1.00189.64	O
ATOM	6499	N	GLN	835	51.016	64.496	34.473	1.00 97.03	N
ATOM	6500	CA	GLN	835	51.999	63.581	33.975	1.00 97.03	C
ATOM	6501	CB	GLN	835	53.174	63.509	34.958	1.00 97.03	C
ATOM	6502	CG	GLN	835	54.170	62.382	34.705	1.00 97.03	C
ATOM	6503	CD	GLN	835	55.130	62.398	35.887	1.00 97.03	C
ATOM	6504	OE1	GLN	835	55.922	63.326	36.049	1.00 97.03	O
ATOM	6505	NE2	GLN	835	55.046	61.352	36.751	1.00 97.03	N

ATOM	6506	C	GLN	835	51.412	62.200	33.891	1.00	97.03	C
ATOM	6507	O	GLN	835	51.491	61.555	32.845	1.00	97.03	O
ATOM	6508	N	VAL	836	50.759	61.721	34.965	1.00	64.28	N
ATOM	6509	CA	VAL	836	50.246	60.377	34.906	1.00	64.28	C
ATOM	6510	CB	VAL	836	49.757	59.872	36.237	1.00	64.28	C
ATOM	6511	CG1	VAL	836	49.159	58.469	36.042	1.00	64.28	C
ATOM	6512	CG2	VAL	836	50.919	59.926	37.243	1.00	64.28	C
ATOM	6513	C	VAL	836	49.142	60.244	33.884	1.00	64.28	C
ATOM	6514	O	VAL	836	49.197	59.342	33.046	1.00	64.28	O
ATOM	6515	N	PRO	837	48.149	61.095	33.859	1.00	100.15	N
ATOM	6516	CA	PRO	837	47.149	60.881	32.856	1.00	100.15	C
ATOM	6517	CD	PRO	837	47.506	61.516	35.093	1.00	100.15	C
ATOM	6518	CB	PRO	837	45.970	61.769	33.234	1.00	100.15	C
ATOM	6519	CG	PRO	837	46.022	61.749	34.768	1.00	100.15	C
ATOM	6520	C	PRO	837	47.671	61.061	31.476	1.00	100.15	C
ATOM	6521	O	PRO	837	46.964	60.716	30.531	1.00	100.15	O
ATOM	6522	N	TYR	838	48.868	61.647	31.327	1.00	147.15	N
ATOM	6523	CA	TYR	838	49.420	61.832	30.020	1.00	147.15	C
ATOM	6524	CB	TYR	838	50.666	62.735	30.095	1.00	147.15	C
ATOM	6525	CG	TYR	838	51.233	62.961	28.740	1.00	147.15	C
ATOM	6526	CD1	TYR	838	50.660	63.871	27.885	1.00	147.15	C
ATOM	6527	CD2	TYR	838	52.332	62.254	28.317	1.00	147.15	C
ATOM	6528	CE1	TYR	838	51.185	64.086	26.632	1.00	147.15	C
ATOM	6529	CE2	TYR	838	52.861	62.464	27.068	1.00	147.15	C
ATOM	6530	CZ	TYR	838	52.290	63.383	26.223	1.00	147.15	C
ATOM	6531	OH	TYR	838	52.840	63.596	24.941	1.00	147.15	O
ATOM	6532	C	TYR	838	49.769	60.496	29.435	1.00	147.15	C
ATOM	6533	O	TYR	838	49.397	60.179	28.305	1.00	147.15	O
ATOM	6534	N	ARG	839	50.459	59.646	30.219	1.00	72.08	N
ATOM	6535	CA	ARG	839	50.869	58.370	29.697	1.00	72.08	C
ATOM	6536	CB	ARG	839	51.687	57.563	30.720	1.00	72.08	C
ATOM	6537	CG	ARG	839	53.055	58.187	31.009	1.00	72.08	C
ATOM	6538	CD	ARG	839	53.792	57.558	32.194	1.00	72.08	C
ATOM	6539	NE	ARG	839	53.095	57.995	33.437	1.00	72.08	N
ATOM	6540	CZ	ARG	839	53.764	58.019	34.627	1.00	72.08	C
ATOM	6541	NH1	ARG	839	55.067	57.618	34.687	1.00	72.08	N
ATOM	6542	NH2	ARG	839	53.132	58.455	35.755	1.00	72.08	N
ATOM	6543	C	ARG	839	49.643	57.584	29.358	1.00	72.08	C
ATOM	6544	O	ARG	839	49.531	56.992	28.283	1.00	72.08	O
ATOM	6545	N	ASN	840	48.656	57.619	30.265	1.00	66.16	N
ATOM	6546	CA	ASN	840	47.443	56.873	30.106	1.00	66.16	C
ATOM	6547	CB	ASN	840	46.460	57.121	31.265	1.00	66.16	C
ATOM	6548	CG	ASN	840						

ATOM	6580	CB	LYS	844	42.683	56.301	26.082	1.00139.22	C
ATOM	6581	CG	LYS	844	43.056	57.755	25.803	1.00139.22	C
ATOM	6582	CD	LYS	844	42.092	58.754	26.440	1.00139.22	C
ATOM	6583	CE	LYS	844	42.324	60.198	25.999	1.00139.22	C
ATOM	6584	NZ	LYS	844	43.728	60.588	26.246	1.00139.22	N
ATOM	6585	C	LYS	844	43.394	55.732	23.809	1.00139.22	C
ATOM	6586	O	LYS	844	42.390	55.517	23.134	1.00139.22	O
ATOM	6587	N	ALA	845	44.446	56.416	23.328	1.00 61.24	N
ATOM	6588	CA	ALA	845	44.421	56.822	21.954	1.00 61.24	C
ATOM	6589	CB	ALA	845	45.760	57.434	21.521	1.00 61.24	C
ATOM	6590	C	ALA	845	44.281	55.562	21.170	1.00 61.24	C
ATOM	6591	O	ALA	845	43.366	55.398	20.366	1.00 61.24	O
ATOM	6592	N	HIS	846	45.124	54.581	21.513	1.00 68.61	N
ATOM	6593	CA	HIS	846	45.151	53.323	20.836	1.00 68.61	C
ATOM	6594	ND1	HIS	846	44.930	50.112	20.963	1.00 68.61	N
ATOM	6595	CG	HIS	846	46.045	50.921	20.994	1.00 68.61	C
ATOM	6596	CB	HIS	846	46.054	52.311	21.570	1.00 68.61	C
ATOM	6597	NE2	HIS	846	46.592	48.933	20.075	1.00 68.61	N
ATOM	6598	CD2	HIS	846	47.052	50.184	20.450	1.00 68.61	C
ATOM	6599	CE1	HIS	846	45.313	48.937	20.404	1.00 68.61	C
ATOM	6600	C	HIS	846	43.778	52.731	20.873	1.00 68.61	C
ATOM	6601	O	HIS	846	43.262	52.293	19.846	1.00 68.61	O
ATOM	6602	N	ILE	847	43.127	52.737	22.050	1.00138.55	N
ATOM	6603	CA	ILE	847	41.872	52.048	22.168	1.00138.55	C
ATOM	6604	CB	ILE	847	41.303	52.044	23.563	1.00138.55	C
ATOM	6605	CG1	ILE	847	40.213	50.967	23.684	1.00138.55	C
ATOM	6606	CG2	ILE	847	40.782	53.446	23.899	1.00138.55	C
ATOM	6607	CD1	ILE	847	40.756	49.542	23.588	1.00138.55	C
ATOM	6608	C	ILE	847	40.852	52.631	21.236	1.00138.55	C
ATOM	6609	O	ILE	847	40.115	51.896	20.580	1.00138.55	O
ATOM	6610	N	PHE	848	40.794	53.969	21.119	1.00 67.35	N
ATOM	6611	CA	PHE	848	39.797	54.557	20.271	1.00 67.35	C
ATOM	6612	CB	PHE	848	39.815	56.094	20.248	1.00 67.35	C
ATOM	6613	CG	PHE	848	39.207	56.547	21.531	1.00 67.35	C
ATOM	6614	CD1	PHE	848	39.976	56.727	22.656	1.00 67.35	C
ATOM	6615	CD2	PHE	848	37.854	56.782	21.607	1.00 67.35	C
ATOM	6616	CE1	PHE	848	39.403	57.139	23.836	1.00 67.35	C
ATOM	6617	CE2	PHE	848	37.275	57.194	22.783	1.00 67.35	C
ATOM	6618	CZ	PHE	848	38.052	57.374	23.902	1.00 67.35	C
ATOM	6619	C	PHE	848	40.007	54.057	18.893	1.00 67.35	C
ATOM	6620	O	PHE	848	39.047	53.801	18.168	1.00 67.35	O
ATOM	6621	N	GLY	849	41.275	53.913	18.483	1.00 52.64	N
ATOM	6622	CA	GLY	849	41.480	53.467	17.144	1.00 52.64	C
ATOM	6623	C	GLY	849	40.893	52.101	16.950	1.00 52.64	C
ATOM	6624	O	GLY	849	40.056	51.911	16.071	1.00 52.64	O
ATOM	6625	N	ILE	850	41.234	51.135	17.826	1.00 92.50	N
ATOM	6626	CA	ILE	850	40.828	49.774	17.598	1.00 92.50	C
ATOM	6627	CB	ILE	850	41.294	48.831	18.676	1.00 92.50	C
ATOM	6628	CG1	ILE	850	40.985	47.376	18.288	1.00 92.50	C
ATOM	6629	CG2	ILE	850	40.678	49.270	20.012	1.00 92.50	C
ATOM	6630	CD1	ILE	850	41.816	46.871	17.109	1.00 92.50	C
ATOM	6631	C	ILE	850	39.339	49.713	17.521	1.00 92.50	C
ATOM	6632	O	ILE	850	38.783	49.068	16.635	1.00 92.50	O
ATOM	6633	N	THR	851	38.651	50.429	18.420	1.00126.25	N
ATOM	6634	CA	THR	851	37.220	50.367	18.440	1.00126.25	C
ATOM	6635	CB	THR	851	36.661	51.321	19.444	1.00126.25	C
ATOM	6636	OG1	THR	851	37.261	51.090	20.707	1.00126.25	O
ATOM	6637	CG2	THR	851	35.141	51.112	19.534	1.00126.25	C
ATOM	6638	C	THR	851	36.683	50.815	17.118	1.00126.25	C
ATOM	6639	O	THR	851	36.016	50.058	16.416	1.00126.25	O
ATOM	6640	N	PHE	852	37.057	52.034	16.698	1.00117.83	N
ATOM	6641	CA	PHE	852	36.518	52.627	15.505	1.00117.83	C
ATOM	6642	CB	PHE	852	37.184	53.986	15.206	1.00117.83	C
ATOM	6643	CG	PHE	852	36.942	54.406	13.793	1.00117.83	C
ATOM	6644	CD1	PHE	852	35.692	54.765	13.348	1.00117.83	C
ATOM	6645	CD2	PHE	852	37.989	54.412	12.898	1.00117.83	C
ATOM	6646	CE1	PHE	852	35.500	55.145	12.039	1.00117.83	C
ATOM	6647	CE2	PHE	852	37.804	54.792	11.589	1.00117.83	C
ATOM	6648	CZ	PHE	852	36.555	55.164	11.157	1.00117.83	C
ATOM	6649	C	PHE	852	36.724	51.705	14.351	1.00117.83	C
ATOM	6650	O	PHE	852	35.786	51.436	13.598	1.00117.83	O
ATOM	6651	N	SER	853	37.942	51.153	14.218	1.00 56.68	N
ATOM	6652	CA	SER	853	38.234	50.307	13.100	1.00 56.68	C
ATOM	6653	CB	SER	853	39.655	49.724	13.153	1.00 56.68	C

ATOM	6654	OG	SER	853	39.777	48.851	14.266	1.00	56.68	O
ATOM	6655	C	SER	853	37.284	49.154	13.095	1.00	56.68	C
ATOM	6656	O	SER	853	36.643	48.882	12.084	1.00	56.68	O
ATOM	6657	N	PHE	854	37.090	48.513	14.259	1.00	114.84	N
ATOM	6658	CA	PHE	854	36.283	47.328	14.366	1.00	114.84	C
ATOM	6659	CB	PHE	854	36.089	46.873	15.825	1.00	114.84	C
ATOM	6660	CG	PHE	854	35.193	45.678	15.836	1.00	114.84	C
ATOM	6661	CD1	PHE	854	33.825	45.834	15.852	1.00	114.84	C
ATOM	6662	CD2	PHE	854	35.714	44.405	15.835	1.00	114.84	C
ATOM	6663	CE1	PHE	854	32.992	44.741	15.864	1.00	114.84	C
ATOM	6664	CE2	PHE	854	34.884	43.307	15.847	1.00	114.84	C
ATOM	6665	CZ	PHE	854	33.520	43.473	15.862	1.00	114.84	C
ATOM	6666	C	PHE	854	34.936	47.645	13.808	1.00	114.84	C
ATOM	6667	O	PHE	854	34.274	46.786	13.229	1.00	114.84	O
ATOM	6668	N	THR	855	34.479	48.891	13.992	1.00	48.39	N
ATOM	6669	CA	THR	855	33.194	49.258	13.477	1.00	48.39	C
ATOM	6670	CB	THR	855	32.826	50.668	13.827	1.00	48.39	C
ATOM	6671	OG1	THR	855	32.827	50.832	15.237	1.00	48.39	O
ATOM	6672	CG2	THR	855	31.432	50.979	13.261	1.00	48.39	C
ATOM	6673	C	THR	855	33.194	49.146	11.983	1.00	48.39	C
ATOM	6674	O	THR	855	32.255	48.618	11.394	1.00	48.39	O
ATOM	6675	N	GLN	856	34.254	49.647	11.326	1.00	82.99	N
ATOM	6676	CA	GLN	856	34.339	49.649	9.889	1.00	82.99	C
ATOM	6677	CB	GLN	856	35.484	50.531	9.383	1.00	82.99	C
ATOM	6678	CG	GLN	856	35.411	51.950	9.954	1.00	82.99	C
ATOM	6679	CD	GLN	856	33.959	52.420	9.969	1.00	82.99	C
ATOM	6680	OE1	GLN	856	33.148	51.959	10.771	1.00	82.99	O
ATOM	6681	NE2	GLN	856	33.620	53.387	9.078	1.00	82.99	N
ATOM	6682	C	GLN	856	34.516	48.248	9.385	1.00	82.99	C
ATOM	6683	O	GLN	856	34.077	47.912	8.286	1.00	82.99	O
ATOM	6684	N	ALA	857	35.202	47.399	10.170	1.00	51.17	N
ATOM	6685	CA	ALA	857	35.375	46.031	9.781	1.00	51.17	C
ATOM	6686	CB	ALA	857	36.063	45.173	10.853	1.00	51.17	C
ATOM	6687	C	ALA	857	34.001	45.485	9.662	1.00	51.17	C
ATOM	6688	O	ALA	857	33.695	44.723	8.750	1.00	51.17	O
ATOM	6689	N	MET	858	33.117	45.903	10.578	1.00	58.41	N
ATOM	6690	CA	MET	858	31.775	45.419	10.537	1.00	58.41	C
ATOM	6691	CB	MET	858	30.864	46.016	11.623	1.00	58.41	C
ATOM	6692	CG	MET	858	31.194	45.503	13.026	1.00	58.41	C
ATOM	6693	SD	MET	858	30.866	43.730	13.276	1.00	58.41	S
ATOM	6694	CE	MET	858	29.092	43.916	13.619	1.00	58.41	C
ATOM	6695	C	MET	858	31.236	45.827	9.212	1.00	58.41	C
ATOM	6696	O	MET	858	30.466	45.096	8.596	1.00	58.41	O
ATOM	6697	N	MET	859	31.667	46.997	8.715	1.00	80.76	N
ATOM	6698	CA	MET	859	31.149	47.467	7.467	1.00	80.76	C
ATOM	6699	CB	MET	859	31.797	48.800	7.050	1.00	80.76	C
ATOM	6700	CG	MET	859	31.477	49.250	5.626	1.00	80.76	C
ATOM	6701	SD	MET	859	32.579	48.556	4.360	1.00	80.76	S
ATOM	6702	CE	MET	859	33.828	49.863	4.546	1.00	80.76	C
ATOM	6703	C	MET	859	31.361	46.449	6.383	1.00	80.76	C
ATOM	6704	O	MET	859	30.392	46.018	5.757	1.00	80.76	O
ATOM	6705	N	TYR	860	32.607	45.985	6.158	1.00	83.21	N
ATOM	6706	CA	TYR	860	32.815	45.056	5.084	1.00	83.21	C
ATOM	6707	CB	TYR	860	34.285	44.845	4.678	1.00	83.21	C
ATOM	6708	CG	TYR	860	35.042	44.022	5.661	1.00	83.21	C
ATOM	6709	CD1	TYR	860	35.596	44.575	6.792	1.00	83.21	C
ATOM	6710	CD2	TYR	860	35.218	42.678	5.425	1.00	83.21	C
ATOM	6711	CE1	TYR	860	36.310	43.798	7.673	1.00	83.21	C
ATOM	6712	CE2	TYR	860	35.930	41.895	6.301	1.00	83.21	C
ATOM	6713	CZ	TYR	860	36.479	42.456	7.427	1.00	83.21	C
ATOM	6714	OH	TYR	860	37.215	41.654	8.324	1.00	83.21	O
ATOM	6715	C	TYR	860	32.205	43.736	5.413	1.00	83.21	C
ATOM	6716	O	TYR	860	31.572	43.128	4.551	1.00	83.21	O
ATOM	6717	N	PHE	861	32.347	43.280	6.679	1.00	129.97	N
ATOM	6718	CA	PHE	861	31.838	41.988	7.055	1.00	129.97	C
ATOM	6719	CB	PHE	861	31.811	41.695	8.571	1.00	129.97	C
ATOM	6720	CG	PHE	861	33.126	41.272	9.131	1.00	129.97	C
ATOM	6721	CD1	PHE	861	33.487	39.946	9.097	1.00	129.97	C
ATOM	6722	CD2	PHE	861	33.987	42.176	9.705	1.00	129.97	C
ATOM	6723	CE1	PHE	861	34.688	39.529	9.619	1.00	129.97	C
ATOM	6724	CE2	PHE	861	35.190	41.769	10.231	1.00	129.97	C
ATOM	6725	CZ	PHE	861	35.542	40.441	10.188	1.00	129.97	C
ATOM	6726	C	PHE	861	30.396	41.950	6.703	1.00	129.97	C
ATOM	6727	O	PHE	861	29.947	41.033	6.018	1.00	129.97	O

ATOM	6728	N	SER	862	29.648	42.983	7.125	1.00101.61	N
ATOM	6729	CA	SER	862	28.239	42.964	6.908	1.00101.61	C
ATOM	6730	CB	SER	862	27.517	44.208	7.462	1.00101.61	C
ATOM	6731	OG	SER	862	27.967	45.387	6.816	1.00101.61	O
ATOM	6732	C	SER	862	27.955	42.837	5.446	1.00101.61	C
ATOM	6733	O	SER	862	27.352	41.856	5.023	1.00101.61	O
ATOM	6734	N	TYR	863	28.450	43.770	4.612	1.00 69.95	N
ATOM	6735	CA	TYR	863	28.070	43.733	3.227	1.00 69.95	C
ATOM	6736	CB	TYR	863	28.692	44.865	2.383	1.00 69.95	C
ATOM	6737	CG	TYR	863	27.913	46.119	2.603	1.00 69.95	C
ATOM	6738	CD1	TYR	863	28.104	46.910	3.714	1.00 69.95	C
ATOM	6739	CD2	TYR	863	26.981	46.508	1.668	1.00 69.95	C
ATOM	6740	CE1	TYR	863	27.370	48.062	3.886	1.00 69.95	C
ATOM	6741	CE2	TYR	863	26.245	47.657	1.834	1.00 69.95	C
ATOM	6742	CZ	TYR	863	26.439	48.437	2.946	1.00 69.95	C
ATOM	6743	OH	TYR	863	25.683	49.617	3.118	1.00 69.95	O
ATOM	6744	C	TYR	863	28.447	42.435	2.579	1.00 69.95	C
ATOM	6745	O	TYR	863	27.594	41.787	1.974	1.00 69.95	O
ATOM	6746	N	ALA	864	29.702	41.981	2.743	1.00 50.10	N
ATOM	6747	CA	ALA	864	30.152	40.826	2.019	1.00 50.10	C
ATOM	6748	CB	ALA	864	31.597	40.446	2.358	1.00 50.10	C
ATOM	6749	C	ALA	864	29.321	39.631	2.346	1.00 50.10	C
ATOM	6750	O	ALA	864	28.823	38.957	1.445	1.00 50.10	O
ATOM	6751	N	GLY	865	29.096	39.365	3.642	1.00 26.34	N
ATOM	6752	CA	GLY	865	28.382	38.176	3.997	1.00 26.34	C
ATOM	6753	C	GLY	865	27.030	38.261	3.381	1.00 26.34	C
ATOM	6754	O	GLY	865	26.522	37.278	2.842	1.00 26.34	O
ATOM	6755	N	CYS	866	26.428	39.462	3.422	1.00 92.16	N
ATOM	6756	CA	CYS	866	25.095	39.611	2.927	1.00 92.16	C
ATOM	6757	CB	CYS	866	24.582	41.055	3.032	1.00 92.16	C
ATOM	6758	SG	CYS	866	22.886	41.231	2.402	1.00 92.16	S
ATOM	6759	C	CYS	866	25.017	39.231	1.479	1.00 92.16	C
ATOM	6760	O	CYS	866	24.346	38.268	1.118	1.00 92.16	O
ATOM	6761	N	PHE	867	25.772	39.924	0.618	1.00 80.95	N
ATOM	6762	CA	PHE	867	25.657	39.685	-0.790	1.00 80.95	C
ATOM	6763	CB	PHE	867	26.559	40.590	-1.649	1.00 80.95	C
ATOM	6764	CG	PHE	867	25.919	41.932	-1.722	1.00 80.95	C
ATOM	6765	CD1	PHE	867	24.963	42.189	-2.680	1.00 80.95	C
ATOM	6766	CD2	PHE	867	26.266	42.933	-0.845	1.00 80.95	C
ATOM	6767	CE1	PHE	867	24.363	43.423	-2.764	1.00 80.95	C
ATOM	6768	CE2	PHE	867	25.667	44.169	-0.925	1.00 80.95	C
ATOM	6769	CZ	PHE	867	24.715	44.417	-1.884	1.00 80.95	C
ATOM	6770	C	PHE	867	26.022	38.270	-1.081	1.00 80.95	C
ATOM	6771	O	PHE	867	25.408	37.635	-1.936	1.00 80.95	O
ATOM	6772	N	ARG	868	27.059	37.735	-0.414	1.00204.05	N
ATOM	6773	CA	ARG	868	27.416	36.400	-0.780	1.00204.05	C
ATOM	6774	CB	ARG	868	28.791	35.935	-0.259	1.00204.05	C
ATOM	6775	CG	ARG	868	28.927	35.784	1.249	1.00204.05	C
ATOM	6776	CD	ARG	868	28.278	34.497	1.753	1.00204.05	C
ATOM	6777	NE	ARG	868	28.881	33.362	1.001	1.00204.05	N
ATOM	6778	CZ	ARG	868	28.357	32.107	1.127	1.00204.05	C
ATOM	6779	NH1	ARG	868	27.278	31.894	1.934	1.00204.05	N
ATOM	6780	NH2	ARG	868	28.914	31.061	0.451	1.00204.05	N
ATOM	6781	C	ARG	868	26.345	35.422	-0.379	1.00204.05	C
ATOM	6782	O	ARG	868	25.946	34.575	-1.177	1.00204.05	O
ATOM	6783	N	PHE	869	25.808	35.539	0.852	1.00 79.34	N
ATOM	6784	CA	PHE	869	24.836	34.593	1.327	1.00 79.34	C
ATOM	6785	CB	PHE	869	24.420	34.858	2.786	1.00 79.34	C
ATOM	6786	CG	PHE	869	23.477	33.786	3.215	1.00 79.34	C
ATOM	6787	CD1	PHE	869	23.959	32.582	3.678	1.00 79.34	C
ATOM	6788	CD2	PHE	869	22.115	33.974	3.146	1.00 79.34	C
ATOM	6789	CE1	PHE	869	23.097	31.587	4.075	1.00 79.34	C
ATOM	6790	CE2	PHE	869	21.249	32.983	3.543	1.00 79.34	C
ATOM	6791	CZ	PHE	869	21.739	31.787	4.009	1.00 79.34	C
ATOM	6792	C	PHE	869	23.626	34.673	0.459	1.00 79.34	C
ATOM	6793	O	PHE	869	23.092	33.649	0.034	1.00 79.34	O
ATOM	6794	N	GLY	870	23.179	35.900	0.138	1.00 53.64	N
ATOM	6795	CA	GLY	870	21.986	36.036	-0.639	1.00 53.64	C
ATOM	6796	C	GLY	870	22.168	35.333	-1.949	1.00 53.64	C
ATOM	6797	O	GLY	870	21.358	34.493	-2.327	1.00 53.64	O
ATOM	6798	N	ALA	871	23.309	35.560	-2.613	1.00 70.68	N
ATOM	6799	CA	ALA	871	23.564	35.075	-3.940	1.00 70.68	C
ATOM	6800	CB	ALA	871	25.001	35.353	-4.410	1.00 70.68	C
ATOM	6801	C	ALA	871	23.377	33.601	-3.950	1.00 70.68	C

ATOM	6802	O	ALA	871	22.969	33.058	-4.975	1.00	70.68	O
ATOM	6803	N	TYR	872	23.679	32.951	-2.807	1.00	100.71	N
ATOM	6804	CA	TYR	872	23.638	31.527	-2.585	1.00	100.71	C
ATOM	6805	CB	TYR	872	23.250	31.162	-1.140	1.00	100.71	C
ATOM	6806	CG	TYR	872	23.153	29.677	-1.047	1.00	100.71	C
ATOM	6807	CD1	TYR	872	24.275	28.907	-0.842	1.00	100.71	C
ATOM	6808	CD2	TYR	872	21.931	29.055	-1.163	1.00	100.71	C
ATOM	6809	CE1	TYR	872	24.177	27.537	-0.756	1.00	100.71	C
ATOM	6810	CE2	TYR	872	21.828	27.686	-1.079	1.00	100.71	C
ATOM	6811	CZ	TYR	872	22.953	26.924	-0.875	1.00	100.71	C
ATOM	6812	OH	TYR	872	22.851	25.519	-0.788	1.00	100.71	O
ATOM	6813	C	TYR	872	22.687	30.810	-3.515	1.00	100.71	C
ATOM	6814	O	TYR	872	21.528	31.189	-3.659	1.00	100.71	O
ATOM	6815	N	LEU	873	23.201	29.722	-4.129	1.00	194.94	N
ATOM	6816	CA	LEU	873	22.644	28.759	-5.063	1.00	194.94	C
ATOM	6817	CB	LEU	873	21.712	27.704	-4.428	1.00	194.94	C
ATOM	6818	CG	LEU	873	21.468	26.450	-5.312	1.00	194.94	C
ATOM	6819	CD1	LEU	873	20.635	26.697	-6.582	1.00	194.94	C
ATOM	6820	CD2	LEU	873	22.807	25.791	-5.663	1.00	194.94	C
ATOM	6821	C	LEU	873	21.963	29.301	-6.291	1.00	194.94	C
ATOM	6822	O	LEU	873	20.742	29.426	-6.363	1.00	194.94	O
ATOM	6823	N	VAL	874	22.792	29.715	-7.259	1.00	199.08	N
ATOM	6824	CA	VAL	874	22.502	30.164	-8.590	1.00	199.08	C
ATOM	6825	CB	VAL	874	23.525	31.171	-9.034	1.00	199.08	C
ATOM	6826	CG1	VAL	874	23.048	31.848	-10.322	1.00	199.08	C
ATOM	6827	CG2	VAL	874	23.802	32.144	-7.878	1.00	199.08	C
ATOM	6828	C	VAL	874	22.476	29.007	-9.577	1.00	199.08	C
ATOM	6829	O	VAL	874	22.447	29.229	-10.788	1.00	199.08	O
ATOM	6830	N	ALA	875	22.651	27.745	-9.128	1.00	86.61	N
ATOM	6831	CA	ALA	875	22.800	26.668	-10.082	1.00	86.61	C
ATOM	6832	CB	ALA	875	23.261	25.347	-9.440	1.00	86.61	C
ATOM	6833	C	ALA	875	21.540	26.369	-10.855	1.00	86.61	C
ATOM	6834	O	ALA	875	20.605	25.750	-10.358	1.00	86.61	O
ATOM	6835	N	HIS	876	21.557	26.701	-12.162	1.00	123.38	N
ATOM	6836	CA	HIS	876	20.489	26.454	-13.095	1.00	123.38	C
ATOM	6837	ND1	HIS	876	19.651	24.619	-15.626	1.00	123.38	N
ATOM	6838	CG	HIS	876	19.244	24.612	-14.312	1.00	123.38	C
ATOM	6839	CB	HIS	876	20.131	24.956	-13.157	1.00	123.38	C
ATOM	6840	NE2	HIS	876	17.491	24.090	-15.629	1.00	123.38	N
ATOM	6841	CD2	HIS	876	17.924	24.285	-14.331	1.00	123.38	C
ATOM	6842	CE1	HIS	876	18.563	24.302	-16.370	1.00	123.38	C
ATOM	6843	C	HIS	876	19.244	27.266	-12.809	1.00	123.38	C
ATOM	6844	O	HIS	876	18.160	26.944	-13.294	1.00	123.38	O
ATOM	6845	N	LYS	877	19.380	28.390	-12.079	1.00	218.68	N
ATOM	6846	CA	LYS	877	18.299	29.314	-11.812	1.00	218.68	C
ATOM	6847	CB	LYS	877	17.397	29.564	-13.036	1.00	218.68	C
ATOM	6848	CG	LYS	877	16.491	30.794	-12.918	1.00	218.68	C
ATOM	6849	CD	LYS	877	15.459	30.718	-11.791	1.00	218.68	C
ATOM	6850	CE	LYS	877	14.229	29.878	-12.140	1.00	218.68	C
ATOM	6851	NZ	LYS	877	13.263	29.902	-11.018	1.00	218.68	N
ATOM	6852	C	LYS	877	17.445	28.831	-10.673	1.00	218.68	C
ATOM	6853	O	LYS	877	16.541	28.016	-10.858	1.00	218.68	O
ATOM	6854	N	LEU	878	17.688	29.394	-9.469	1.00	121.17	N
ATOM	6855	CA	LEU	878	17.027	29.046	-8.241	1.00	121.17	C
ATOM	6856	CB	LEU	878	18.032	28.441	-7.220	1.00	121.17	C
ATOM	6857	CG	LEU	878	17.454	28.021	-5.847	1.00	121.17	C
ATOM	6858	CD1	LEU	878	16.412	26.917	-6.002	1.00	121.17	C
ATOM	6859	CD2	LEU	878	18.531	27.710	-4.801	1.00	121.17	C
ATOM	6860	C	LEU	878	16.430	30.318	-7.673	1.00	121.17	C
ATOM	6861	O	LEU	878	16.511	31.382	-8.280	1.00	121.17	O
ATOM	6862	N	MET	879	15.897	30.244	-6.437	1.00	219.81	N
ATOM	6863	CA	MET	879	15.195	31.250	-5.698	1.00	219.81	C
ATOM	6864	CB	MET	879	14.808	30.789	-4.283	1.00	219.81	C
ATOM	6865	CG	MET	879	13.941	31.807	-3.548	1.00	219.81	C
ATOM	6866	SD	MET	879	12.270	31.978	-4.239	1.00	219.81	S
ATOM	6867	CE	MET	879	11.930	33.539	-3.379	1.00	219.81	C
ATOM	6868	C	MET	879	16.100	32.428	-5.562	1.00	219.81	C
ATOM	6869	O	MET	879	15.660	33.510	-5.178	1.00	219.81	O
ATOM	6870	N	SER	880	17.411	32.219	-5.759	1.00	103.59	N
ATOM	6871	CA	SER	880	18.365	33.293	-5.701	1.00	103.59	C
ATOM	6872	CB	SER	880	19.804	32.777	-5.535	1.00	103.59	C
ATOM	6873	OG	SER	880	20.147	31.946	-6.635	1.00	103.59	O
ATOM	6874	C	SER	880	18.330	34.085	-6.986	1.00	103.59	C
ATOM	6875	O	SER	880	18.654	33.561	-8.053	1.00	103.59	O

ATOM	6876	N	PHE	881	17.969	35.391	-6.897	1.00195.58	N
ATOM	6877	CA	PHE	881	17.873	36.248	-8.051	1.00195.58	C
ATOM	6878	CB	PHE	881	16.620	35.950	-8.911	1.00195.58	C
ATOM	6879	CG	PHE	881	15.366	36.296	-8.174	1.00195.58	C
ATOM	6880	CD1	PHE	881	15.008	35.618	-7.032	1.00195.58	C
ATOM	6881	CD2	PHE	881	14.557	37.322	-8.610	1.00195.58	C
ATOM	6882	CE1	PHE	881	13.857	35.947	-6.354	1.00195.58	C
ATOM	6883	CE2	PHE	881	13.405	37.656	-7.939	1.00195.58	C
ATOM	6884	CZ	PHE	881	13.052	36.965	-6.807	1.00195.58	C
ATOM	6885	C	PHE	881	17.860	37.694	-7.589	1.00195.58	C
ATOM	6886	O	PHE	881	18.539	38.064	-6.633	1.00195.58	O
ATOM	6887	N	GLU	882	17.063	38.551	-8.266	1.00189.51	N
ATOM	6888	CA	GLU	882	16.983	39.981	-8.073	1.00189.51	C
ATOM	6889	CB	GLU	882	15.974	40.675	-9.014	1.00189.51	C
ATOM	6890	CG	GLU	882	14.498	40.353	-8.734	1.00189.51	C
ATOM	6891	CD	GLU	882	13.956	41.266	-7.631	1.00189.51	C
ATOM	6892	OE1	GLU	882	14.652	42.253	-7.268	1.00189.51	O
ATOM	6893	OE2	GLU	882	12.840	40.972	-7.127	1.00189.51	O
ATOM	6894	C	GLU	882	16.586	40.399	-6.679	1.00189.51	C
ATOM	6895	O	GLU	882	17.038	41.442	-6.213	1.00189.51	O
ATOM	6896	N	ASP	883	15.776	39.603	-5.956	1.00138.99	N
ATOM	6897	CA	ASP	883	15.163	39.957	-4.693	1.00138.99	C
ATOM	6898	CB	ASP	883	14.526	38.741	-3.993	1.00138.99	C
ATOM	6899	CG	ASP	883	15.604	37.699	-3.701	1.00138.99	C
ATOM	6900	OD1	ASP	883	16.550	37.558	-4.522	1.00138.99	O
ATOM	6901	OD2	ASP	883	15.482	37.015	-2.650	1.00138.99	O
ATOM	6902	C	ASP	883	16.173	40.562	-3.765	1.00138.99	C
ATOM	6903	O	ASP	883	15.817	41.349	-2.889	1.00138.99	O
ATOM	6904	N	VAL	884	17.464	40.248	-3.955	1.00 89.01	N
ATOM	6905	CA	VAL	884	18.518	40.799	-3.153	1.00 89.01	C
ATOM	6906	CB	VAL	884	19.879	40.485	-3.708	1.00 89.01	C
ATOM	6907	CG1	VAL	884	20.087	38.961	-3.665	1.00 89.01	C
ATOM	6908	CG2	VAL	884	19.981	41.075	-5.126	1.00 89.01	C
ATOM	6909	C	VAL	884	18.368	42.301	-3.130	1.00 89.01	C
ATOM	6910	O	VAL	884	18.810	42.963	-2.196	1.00 89.01	O
ATOM	6911	N	LEU	885	17.764	42.906	-4.163	1.00125.33	N
ATOM	6912	CA	LEU	885	17.593	44.336	-4.143	1.00125.33	C
ATOM	6913	CB	LEU	885	16.972	44.889	-5.438	1.00125.33	C
ATOM	6914	CG	LEU	885	17.969	44.960	-6.611	1.00125.33	C
ATOM	6915	CD1	LEU	885	19.061	46.003	-6.327	1.00125.33	C
ATOM	6916	CD2	LEU	885	18.561	43.588	-6.962	1.00125.33	C
ATOM	6917	C	LEU	885	16.729	44.742	-2.983	1.00125.33	C
ATOM	6918	O	LEU	885	16.947	45.792	-2.379	1.00125.33	O
ATOM	6919	N	LEU	886	15.697	43.945	-2.654	1.00143.07	N
ATOM	6920	CA	LEU	886	14.899	44.274	-1.511	1.00143.07	C
ATOM	6921	CB	LEU	886	13.674	43.374	-1.265	1.00143.07	C
ATOM	6922	CG	LEU	886	12.655	43.364	-2.414	1.00143.07	C
ATOM	6923	CD1	LEU	886	12.350	44.787	-2.899	1.00143.07	C
ATOM	6924	CD2	LEU	886	13.042	42.381	-3.523	1.00143.07	C
ATOM	6925	C	LEU	886	15.766	44.127	-0.308	1.00143.07	C
ATOM	6926	O	LEU	886	15.548	44.804	0.689	1.00143.07	O
ATOM	6927	N	VAL	887	16.757	43.214	-0.327	1.00160.02	N
ATOM	6928	CA	VAL	887	17.532	43.090	0.881	1.00160.02	C
ATOM	6929	CB	VAL	887	18.574	42.000	0.911	1.00160.02	C
ATOM	6930	CG1	VAL	887	17.924	40.705	0.408	1.00160.02	C
ATOM	6931	CG2	VAL	887	19.884	42.432	0.245	1.00160.02	C
ATOM	6932	C	VAL	887	18.209	44.407	1.126	1.00160.02	C
ATOM	6933	O	VAL	887	18.326	44.862	2.264	1.00160.02	O
ATOM	6934	N	PHE	888	18.618	45.089	0.042	1.00136.58	N
ATOM	6935	CA	PHE	888	19.232	46.379	0.172	1.00136.58	C
ATOM	6936	CB	PHE	888	19.518	47.029	-1.199	1.00136.58	C
ATOM	6937	CG	PHE	888	19.978	48.435	-0.998	1.00136.58	C
ATOM	6938	CD1	PHE	888	19.060	49.454	-0.870	1.00136.58	C
ATOM	6939	CD2	PHE	888	21.318	48.742	-0.948	1.00136.58	C
ATOM	6940	CE1	PHE	888	19.468	50.754	-0.689	1.00136.58	C
ATOM	6941	CE2	PHE	888	21.734	50.042	-0.768	1.00136.58	C
ATOM	6942	CZ	PHE	888	20.809	51.050	-0.636	1.00136.58	C
ATOM	6943	C	PHE	888	18.235	47.235	0.890	1.00136.58	C
ATOM	6944	O	PHE	888	18.592	48.078	1.713	1.00136.58	O
ATOM	6945	N	SER	889	16.939	47.026	0.599	1.00126.20	N
ATOM	6946	CA	SER	889	15.911	47.834	1.186	1.00126.20	C
ATOM	6947	CB	SER	889	14.489	47.386	0.779	1.00126.20	C
ATOM	6948	OG	SER	889	13.915	46.480	1.707	1.00126.20	O
ATOM	6949	C	SER	889	15.968	47.760	2.694	1.00126.20	C

ATOM	6950	O	SER	889	15.892	48.781	3.371	1.00126.20	O
ATOM	6951	N	ALA	890	16.072	46.547	3.272	1.00 71.87	N
ATOM	6952	CA	ALA	890	16.096	46.360	4.706	1.00 71.87	C
ATOM	6953	CB	ALA	890	16.000	44.883	5.120	1.00 71.87	C
ATOM	6954	C	ALA	890	17.341	46.910	5.336	1.00 71.87	C
ATOM	6955	O	ALA	890	17.308	47.404	6.464	1.00 71.87	O
ATOM	6956	N	VAL	891	18.492	46.767	4.655	1.00 54.61	N
ATOM	6957	CA	VAL	891	19.732	47.234	5.210	1.00 54.61	C
ATOM	6958	CB	VAL	891	20.906	46.931	4.325	1.00 54.61	C
ATOM	6959	CG1	VAL	891	22.175	47.497	4.983	1.00 54.61	C
ATOM	6960	CG2	VAL	891	20.953	45.417	4.063	1.00 54.61	C
ATOM	6961	C	VAL	891	19.641	48.721	5.324	1.00 54.61	C
ATOM	6962	O	VAL	891	19.919	49.307	6.371	1.00 54.61	O
ATOM	6963	N	VAL	892	19.194	49.360	4.227	1.00126.07	N
ATOM	6964	CA	VAL	892	19.076	50.781	4.174	1.00126.07	C
ATOM	6965	CB	VAL	892	18.704	51.316	2.814	1.00126.07	C
ATOM	6966	CG1	VAL	892	17.237	50.995	2.505	1.00126.07	C
ATOM	6967	CG2	VAL	892	19.026	52.818	2.779	1.00126.07	C
ATOM	6968	C	VAL	892	18.040	51.178	5.177	1.00126.07	C
ATOM	6969	O	VAL	892	18.015	52.314	5.649	1.00126.07	O
ATOM	6970	N	PHE	893	17.114	50.257	5.507	1.00114.44	N
ATOM	6971	CA	PHE	893	16.116	50.638	6.463	1.00114.44	C
ATOM	6972	CB	PHE	893	15.035	49.581	6.768	1.00114.44	C
ATOM	6973	CG	PHE	893	14.268	49.295	5.524	1.00114.44	C
ATOM	6974	CD1	PHE	893	13.977	50.294	4.625	1.00114.44	C
ATOM	6975	CD2	PHE	893	13.768	48.035	5.298	1.00114.44	C
ATOM	6976	CE1	PHE	893	13.260	50.013	3.487	1.00114.44	C
ATOM	6977	CE2	PHE	893	13.048	47.747	4.165	1.00114.44	C
ATOM	6978	CZ	PHE	893	12.799	48.740	3.250	1.00114.44	C
ATOM	6979	C	PHE	893	16.765	50.966	7.773	1.00114.44	C
ATOM	6980	O	PHE	893	16.512	52.026	8.348	1.00114.44	O
ATOM	6981	N	GLY	894	17.664	50.086	8.253	1.00 51.56	N
ATOM	6982	CA	GLY	894	18.257	50.272	9.548	1.00 51.56	C
ATOM	6983	C	GLY	894	18.920	51.611	9.552	1.00 51.56	C
ATOM	6984	O	GLY	894	18.833	52.371	10.518	1.00 51.56	O
ATOM	6985	N	ALA	895	19.558	51.953	8.424	1.00 54.47	N
ATOM	6986	CA	ALA	895	20.246	53.200	8.316	1.00 54.47	C
ATOM	6987	CB	ALA	895	20.905	53.401	6.941	1.00 54.47	C
ATOM	6988	C	ALA	895	19.261	54.317	8.514	1.00 54.47	C
ATOM	6989	O	ALA	895	19.583	55.339	9.118	1.00 54.47	O
ATOM	6990	N	MET	896	18.022	54.141	8.021	1.00140.23	N
ATOM	6991	CA	MET	896	17.025	55.182	8.054	1.00140.23	C
ATOM	6992	CB	MET	896	15.633	54.661	7.688	1.00140.23	C
ATOM	6993	CG	MET	896	15.509	53.962	6.348	1.00140.23	C
ATOM	6994	SD	MET	896	14.040	52.894	6.268	1.00140.23	S
ATOM	6995	CE	MET	896	12.823	54.211	6.552	1.00140.23	C
ATOM	6996	C	MET	896	16.792	55.630	9.467	1.00140.23	C
ATOM	6997	O	MET	896	16.847	56.819	9.786	1.00140.23	O
ATOM	6998	N	ALA	897	16.544	54.658	10.360	1.00 75.58	N
ATOM	6999	CA	ALA	897	16.202	54.929	11.726	1.00 75.58	C
ATOM	7000	CB	ALA	897	15.936	53.651	12.541	1.00 75.58	C
ATOM	7001	C	ALA	897	17.346	55.638	12.361	1.00 75.58	C
ATOM	7002	O	ALA	897	17.166	56.485	13.235	1.00 75.58	O
ATOM	7003	N	VAL	898	18.568	55.298	11.926	1.00 62.31	N
ATOM	7004	CA	VAL	898	19.729	55.880	12.524	1.00 62.31	C
ATOM	7005	CB	VAL	898	21.002	55.465	11.846	1.00 62.31	C
ATOM	7006	CG1	VAL	898	22.164	56.259	12.465	1.00 62.31	C
ATOM	7007	CG2	VAL	898	21.157	53.941	11.979	1.00 62.31	C
ATOM	7008	C	VAL	898	19.619	57.366	12.404	1.00 62.31	C
ATOM	7009	O	VAL	898	19.922	58.104	13.343	1.00 62.31	O
ATOM	7010	N	GLY	899	19.119	57.841	11.252	1.00 46.76	N
ATOM	7011	CA	GLY	899	19.046	59.254	11.037	1.00 46.76	C
ATOM	7012	C	GLY	899	18.224	59.881	12.128	1.00 46.76	C
ATOM	7013	O	GLY	899	18.563	60.952	12.629	1.00 46.76	O
ATOM	7014	N	GLN	900	17.118	59.230	12.533	1.00135.55	N
ATOM	7015	CA	GLN	900	16.217	59.846	13.476	1.00135.55	C
ATOM	7016	CB	GLN	900	14.882	59.095	13.614	1.00135.55	C
ATOM	7017	CG	GLN	900	13.940	59.287	12.419	1.00135.55	C
ATOM	7018	CD	GLN	900	14.428	58.447	11.249	1.00135.55	C
ATOM	7019	OE1	GLN	900	14.991	57.371	11.433	1.00135.55	O
ATOM	7020	NE2	GLN	900	14.203	58.950	10.005	1.00135.55	N
ATOM	7021	C	GLN	900	16.773	60.065	14.869	1.00135.55	C
ATOM	7022	O	GLN	900	16.630	61.159	15.419	1.00135.55	O
ATOM	7023	N	VAL	901	17.433	59.067	15.494	1.00154.88	N

ATOM	7024	CA	VAL	901	17.864	59.288	16.859	1.00154.88	C
ATOM	7025	CB	VAL	901	18.527	58.102	17.501	1.00154.88	C
ATOM	7026	CG1	VAL	901	19.740	57.681	16.652	1.00154.88	C
ATOM	7027	CG2	VAL	901	18.887	58.489	18.951	1.00154.88	C
ATOM	7028	C	VAL	901	18.841	60.406	16.866	1.00154.88	C
ATOM	7029	O	VAL	901	18.827	61.271	17.744	1.00154.88	O
ATOM	7030	N	SER	902	19.720	60.390	15.856	1.00 74.35	N
ATOM	7031	CA	SER	902	20.766	61.351	15.720	1.00 74.35	C
ATOM	7032	CB	SER	902	21.851	60.912	14.722	1.00 74.35	C
ATOM	7033	OG	SER	902	22.517	59.753	15.201	1.00 74.35	O
ATOM	7034	C	SER	902	20.217	62.658	15.230	1.00 74.35	C
ATOM	7035	O	SER	902	20.995	63.576	14.984	1.00 74.35	O
ATOM	7036	N	SER	903	18.887	62.802	15.037	1.00 74.66	N
ATOM	7037	CA	SER	903	18.449	64.056	14.474	1.00 74.66	C
ATOM	7038	CB	SER	903	18.065	63.947	12.989	1.00 74.66	C
ATOM	7039	OG	SER	903	19.201	63.583	12.219	1.00 74.66	O
ATOM	7040	C	SER	903	17.246	64.589	15.195	1.00 74.66	C
ATOM	7041	O	SER	903	16.769	63.997	16.164	1.00 74.66	O
ATOM	7042	N	PHE	904	16.778	65.784	14.751	1.00132.68	N
ATOM	7043	CA	PHE	904	15.599	66.423	15.283	1.00132.68	C
ATOM	7044	CB	PHE	904	14.356	65.518	15.412	1.00132.68	C
ATOM	7045	CG	PHE	904	13.560	65.612	14.152	1.00132.68	C
ATOM	7046	CD1	PHE	904	13.893	64.920	13.011	1.00132.68	C
ATOM	7047	CD2	PHE	904	12.443	66.417	14.132	1.00132.68	C
ATOM	7048	CE1	PHE	904	13.124	65.042	11.875	1.00132.68	C
ATOM	7049	CE2	PHE	904	11.672	66.542	13.001	1.00132.68	C
ATOM	7050	CZ	PHE	904	12.013	65.853	11.865	1.00132.68	C
ATOM	7051	C	PHE	904	15.870	67.076	16.612	1.00132.68	C
ATOM	7052	O	PHE	904	17.000	67.417	16.956	1.00132.68	O
ATOM	7053	N	ALA	905	14.787	67.237	17.401	1.00102.75	N
ATOM	7054	CA	ALA	905	14.705	67.923	18.668	1.00102.75	C
ATOM	7055	CB	ALA	905	13.327	67.681	19.319	1.00102.75	C
ATOM	7056	C	ALA	905	15.789	67.434	19.586	1.00102.75	C
ATOM	7057	O	ALA	905	16.429	66.424	19.289	1.00102.75	O
ATOM	7058	N	PRO	906	16.059	68.154	20.676	1.00141.88	N
ATOM	7059	CA	PRO	906	17.064	67.753	21.628	1.00141.88	C
ATOM	7060	CD	PRO	906	15.122	69.103	21.263	1.00141.88	C
ATOM	7061	CB	PRO	906	16.939	68.714	22.808	1.00141.88	C
ATOM	7062	CG	PRO	906	15.463	69.139	22.761	1.00141.88	C
ATOM	7063	C	PRO	906	16.700	66.357	21.995	1.00141.88	C
ATOM	7064	O	PRO	906	15.509	66.068	21.926	1.00141.88	O
ATOM	7065	N	ASP	907	17.683	65.512	22.397	1.00269.23	N
ATOM	7066	CA	ASP	907	17.582	64.102	22.708	1.00269.23	C
ATOM	7067	CB	ASP	907	18.912	63.329	22.848	1.00269.23	C
ATOM	7068	CG	ASP	907	19.685	63.691	24.100	1.00269.23	C
ATOM	7069	OD1	ASP	907	19.767	64.898	24.444	1.00269.23	O
ATOM	7070	OD2	ASP	907	20.226	62.739	24.724	1.00269.23	O
ATOM	7071	C	ASP	907	16.750	63.956	23.958	1.00269.23	C
ATOM	7072	O	ASP	907	17.088	63.201	24.866	1.00269.23	O
ATOM	7073	N	TYR	908	15.713	64.810	24.115	1.00285.04	N
ATOM	7074	CA	TYR	908	14.978	64.808	25.327	1.00285.04	C
ATOM	7075	CB	TYR	908	14.582	63.440	25.926	1.00285.04	C
ATOM	7076	CG	TYR	908	13.284	62.964	25.373	1.00285.04	C
ATOM	7077	CD1	TYR	908	12.119	63.498	25.871	1.00285.04	C
ATOM	7078	CD2	TYR	908	13.209	61.985	24.408	1.00285.04	C
ATOM	7079	CE1	TYR	908	10.896	63.081	25.404	1.00285.04	C
ATOM	7080	CE2	TYR	908	11.987	61.563	23.937	1.00285.04	C
ATOM	7081	CZ	TYR	908	10.829	62.112	24.433	1.00285.04	C
ATOM	7082	OH	TYR	908	9.575	61.679	23.951	1.00285.04	O
ATOM	7083	C	TYR	908	15.968	65.428	26.220	1.00285.04	C
ATOM	7084	O	TYR	908	16.653	66.356	25.795	1.00285.04	O
ATOM	7085	N	ALA	909	15.930	65.085	27.511	1.00290.24	N
ATOM	7086	CA	ALA	909	17.009	65.525	28.346	1.00290.24	C
ATOM	7087	CB	ALA	909	18.407	65.493	27.692	1.00290.24	C
ATOM	7088	C	ALA	909	16.698	66.891	28.811	1.00290.24	C
ATOM	7089	O	ALA	909	15.681	67.115	29.451	1.00290.24	O
ATOM	7090	N	LYS	910	17.563	67.847	28.452	1.00246.64	N
ATOM	7091	CA	LYS	910	17.491	69.210	28.894	1.00246.64	C
ATOM	7092	CB	LYS	910	18.398	70.118	28.051	1.00246.64	C
ATOM	7093	CG	LYS	910	19.788	69.536	27.782	1.00246.64	C
ATOM	7094	CD	LYS	910	19.780	68.365	26.793	1.00246.64	C
ATOM	7095	CE	LYS	910	18.901	68.623	25.567	1.00246.64	C
ATOM	7096	NZ	LYS	910	18.870	67.430	24.697	1.00246.64	N
ATOM	7097	C	LYS	910	16.091	69.672	28.633	1.00246.64	C

ATOM	7098	O	LYS	910	15.566	70.506	29.367	1.00246.64	O
ATOM	7099	N	ALA	911	15.446	69.149	27.570	1.00 81.06	N
ATOM	7100	CA	ALA	911	14.098	69.579	27.316	1.00 81.06	C
ATOM	7101	CB	ALA	911	13.512	68.948	26.043	1.00 81.06	C
ATOM	7102	C	ALA	911	13.206	69.182	28.469	1.00 81.06	C
ATOM	7103	O	ALA	911	12.443	69.985	29.004	1.00 81.06	O
ATOM	7104	N	LYS	912	13.303	67.920	28.914	1.00107.70	N
ATOM	7105	CA	LYS	912	12.528	67.420	30.014	1.00107.70	C
ATOM	7106	CB	LYS	912	12.833	65.938	30.304	1.00107.70	C
ATOM	7107	CG	LYS	912	12.033	65.348	31.467	1.00107.70	C
ATOM	7108	CD	LYS	912	12.141	63.825	31.563	1.00107.70	C
ATOM	7109	CE	LYS	912	11.395	63.223	32.755	1.00107.70	C
ATOM	7110	NZ	LYS	912	11.560	61.753	32.759	1.00107.70	N
ATOM	7111	C	LYS	912	12.831	68.200	31.266	1.00107.70	C
ATOM	7112	O	LYS	912	11.920	68.595	31.994	1.00107.70	O
ATOM	7113	N	ILE	913	14.121	68.479	31.552	1.00136.62	N
ATOM	7114	CA	ILE	913	14.426	69.174	32.781	1.00136.62	C
ATOM	7115	CB	ILE	913	15.900	69.385	33.004	1.00136.62	C
ATOM	7116	CG1	ILE	913	16.521	70.295	31.929	1.00136.62	C
ATOM	7117	CG2	ILE	913	16.554	67.996	33.083	1.00136.62	C
ATOM	7118	CD1	ILE	913	17.919	70.797	32.286	1.00136.62	C
ATOM	7119	C	ILE	913	13.756	70.500	32.727	1.00136.62	C
ATOM	7120	O	ILE	913	13.109	70.937	33.681	1.00136.62	O
ATOM	7121	N	SER	914	13.860	71.169	31.574	1.00 89.64	N
ATOM	7122	CA	SER	914	13.264	72.466	31.506	1.00 89.64	C
ATOM	7123	CB	SER	914	13.542	73.166	30.168	1.00 89.64	C
ATOM	7124	OG	SER	914	14.937	73.392	30.028	1.00 89.64	O
ATOM	7125	C	SER	914	11.777	72.306	31.656	1.00 89.64	C
ATOM	7126	O	SER	914	11.114	73.160	32.244	1.00 89.64	O
ATOM	7127	N	ALA	915	11.208	71.195	31.139	1.00 73.13	N
ATOM	7128	CA	ALA	915	9.780	71.032	31.219	1.00 73.13	C
ATOM	7129	CB	ALA	915	9.294	69.736	30.547	1.00 73.13	C
ATOM	7130	C	ALA	915	9.336	70.976	32.658	1.00 73.13	C
ATOM	7131	O	ALA	915	8.408	71.681	33.063	1.00 73.13	O
ATOM	7132	N	ALA	916	10.034	70.180	33.492	1.00 63.95	N
ATOM	7133	CA	ALA	916	9.600	70.001	34.849	1.00 63.95	C
ATOM	7134	CB	ALA	916	10.546	69.098	35.658	1.00 63.95	C
ATOM	7135	C	ALA	916	9.565	71.334	35.520	1.00 63.95	C
ATOM	7136	O	ALA	916	8.597	71.682	36.197	1.00 63.95	O
ATOM	7137	N	HIS	917	10.602	72.149	35.298	1.00123.10	N
ATOM	7138	CA	HIS	917	10.652	73.397	35.994	1.00123.10	C
ATOM	7139	ND1	HIS	917	13.558	74.221	37.473	1.00123.10	N
ATOM	7140	CG	HIS	917	13.162	73.826	36.216	1.00123.10	C
ATOM	7141	CB	HIS	917	11.866	74.246	35.599	1.00123.10	C
ATOM	7142	NE2	HIS	917	15.212	72.991	36.642	1.00123.10	N
ATOM	7143	CD2	HIS	917	14.183	73.073	35.722	1.00123.10	C
ATOM	7144	CE1	HIS	917	14.792	73.695	37.678	1.00123.10	C
ATOM	7145	C	HIS	917	9.460	74.251	35.679	1.00123.10	C
ATOM	7146	O	HIS	917	8.723	74.684	36.565	1.00123.10	O
ATOM	7147	N	ILE	918	9.206	74.466	34.383	1.00148.39	N
ATOM	7148	CA	ILE	918	8.184	75.371	33.951	1.00148.39	C
ATOM	7149	CB	ILE	918	8.192	75.501	32.443	1.00148.39	C
ATOM	7150	CG1	ILE	918	7.173	76.526	31.923	1.00148.39	C
ATOM	7151	CG2	ILE	918	8.019	74.102	31.839	1.00148.39	C
ATOM	7152	CD1	ILE	918	5.727	76.050	32.015	1.00148.39	C
ATOM	7153	C	ILE	918	6.871	74.894	34.473	1.00148.39	C
ATOM	7154	O	ILE	918	5.969	75.692	34.727	1.00148.39	O
ATOM	7155	N	ILE	919	6.722	73.565	34.601	1.00133.50	N
ATOM	7156	CA	ILE	919	5.493	72.974	35.044	1.00133.50	C
ATOM	7157	CB	ILE	919	5.548	71.475	35.029	1.00133.50	C
ATOM	7158	CG1	ILE	919	5.829	70.927	33.620	1.00133.50	C
ATOM	7159	CG2	ILE	919	4.227	70.967	35.629	1.00133.50	C
ATOM	7160	CD1	ILE	919	4.710	71.179	32.615	1.00133.50	C
ATOM	7161	C	ILE	919	5.169	73.341	36.456	1.00133.50	C
ATOM	7162	O	ILE	919	4.047	73.756	36.744	1.00133.50	O
ATOM	7163	N	MET	920	6.148	73.224	37.373	1.00104.39	N
ATOM	7164	CA	MET	920	5.834	73.442	38.760	1.00104.39	C
ATOM	7165	CB	MET	920	7.069	73.318	39.670	1.00104.39	C
ATOM	7166	CG	MET	920	7.671	71.912	39.721	1.00104.39	C
ATOM	7167	SD	MET	920	6.678	70.688	40.626	1.00104.39	S
ATOM	7168	CE	MET	920	7.158	71.274	42.276	1.00104.39	C
ATOM	7169	C	MET	920	5.320	74.842	38.907	1.00104.39	C
ATOM	7170	O	MET	920	4.335	75.103	39.599	1.00104.39	O
ATOM	7171	N	ILE	921	5.972	75.784	38.216	1.00 98.47	N

ATOM	7172	CA	ILE	921	5.634	77.177	38.321	1.00	98.47	C
ATOM	7173	CB	ILE	921	6.623	78.031	37.595	1.00	98.47	C
ATOM	7174	CG1	ILE	921	8.002	77.843	38.246	1.00	98.47	C
ATOM	7175	CG2	ILE	921	6.121	79.485	37.598	1.00	98.47	C
ATOM	7176	CD1	ILE	921	9.154	78.320	37.375	1.00	98.47	C
ATOM	7177	C	ILE	921	4.276	77.471	37.786	1.00	98.47	C
ATOM	7178	O	ILE	921	3.558	78.335	38.293	1.00	98.47	O
ATOM	7179	N	ILE	922	3.924	76.805	36.684	1.00	160.13	N
ATOM	7180	CA	ILE	922	2.650	77.029	36.085	1.00	160.13	C
ATOM	7181	CB	ILE	922	2.489	76.412	34.733	1.00	160.13	C
ATOM	7182	CG1	ILE	922	2.468	74.882	34.786	1.00	160.13	C
ATOM	7183	CG2	ILE	922	3.637	76.956	33.880	1.00	160.13	C
ATOM	7184	CD1	ILE	922	2.005	74.260	33.468	1.00	160.13	C
ATOM	7185	C	ILE	922	1.566	76.506	36.957	1.00	160.13	C
ATOM	7186	O	ILE	922	0.442	76.991	36.889	1.00	160.13	O
ATOM	7187	N	GLU	923	1.838	75.452	37.743	1.00	109.01	N
ATOM	7188	CA	GLU	923	0.772	74.850	38.493	1.00	109.01	C
ATOM	7189	CB	GLU	923	1.318	73.739	39.398	1.00	109.01	C
ATOM	7190	CG	GLU	923	1.953	72.592	38.612	1.00	109.01	C
ATOM	7191	CD	GLU	923	2.986	71.955	39.524	1.00	109.01	C
ATOM	7192	OE1	GLU	923	3.490	72.686	40.418	1.00	109.01	O
ATOM	7193	OE2	GLU	923	3.295	70.747	39.340	1.00	109.01	O
ATOM	7194	C	GLU	923	0.105	75.869	39.367	1.00	109.01	C
ATOM	7195	O	GLU	923	-1.027	76.261	39.091	1.00	109.01	O
ATOM	7196	N	LYS	924	0.846	76.394	40.365	1.00	235.57	N
ATOM	7197	CA	LYS	924	0.412	77.382	41.330	1.00	235.57	C
ATOM	7198	CB	LYS	924	0.892	78.799	40.978	1.00	235.57	C
ATOM	7199	CG	LYS	924	0.544	79.255	39.561	1.00	235.57	C
ATOM	7200	CD	LYS	924	-0.953	79.447	39.316	1.00	235.57	C
ATOM	7201	CE	LYS	924	-1.274	80.135	37.988	1.00	235.57	C
ATOM	7202	NZ	LYS	924	-1.125	79.183	36.868	1.00	235.57	N
ATOM	7203	C	LYS	924	-1.080	77.408	41.659	1.00	235.57	C
ATOM	7204	O	LYS	924	-1.807	76.435	41.466	1.00	235.57	O
ATOM	7205	N	THR	925	-1.549	78.505	42.327	1.00	177.24	N
ATOM	7206	CA	THR	925	-2.953	78.712	42.643	1.00	177.24	C
ATOM	7207	CB	THR	925	-3.326	78.235	44.022	1.00	177.24	C
ATOM	7208	OG1	THR	925	-4.708	78.461	44.264	1.00	177.24	O
ATOM	7209	CG2	THR	925	-2.455	78.925	45.085	1.00	177.24	C
ATOM	7210	C	THR	925	-3.292	80.186	42.508	1.00	177.24	C
ATOM	7211	O	THR	925	-2.949	80.993	43.368	1.00	177.24	O
ATOM	7212	N	PRO	926	-4.056	80.548	41.503	1.00	108.93	N
ATOM	7213	CA	PRO	926	-4.356	81.920	41.141	1.00	108.93	C
ATOM	7214	CD	PRO	926	-4.703	79.582	40.634	1.00	108.93	C
ATOM	7215	CB	PRO	926	-5.437	81.831	40.066	1.00	108.93	C
ATOM	7216	CG	PRO	926	-5.265	80.419	39.470	1.00	108.93	C
ATOM	7217	C	PRO	926	-4.748	82.763	42.303	1.00	108.93	C
ATOM	7218	O	PRO	926	-4.291	83.899	42.418	1.00	108.93	O
ATOM	7219	N	LEU	927	-5.647	82.254	43.139	1.00	169.77	N
ATOM	7220	CA	LEU	927	-5.961	82.906	44.367	1.00	169.77	C
ATOM	7221	CB	LEU	927	-4.706	83.264	45.181	1.00	169.77	C
ATOM	7222	CG	LEU	927	-3.946	82.032	45.701	1.00	169.77	C
ATOM	7223	CD1	LEU	927	-2.704	82.440	46.509	1.00	169.77	C
ATOM	7224	CD2	LEU	927	-4.879	81.083	46.469	1.00	169.77	C
ATOM	7225	C	LEU	927	-6.785	84.155	44.181	1.00	169.77	C
ATOM	7226	O	LEU	927	-7.613	84.419	45.047	1.00	169.77	O
ATOM	7227	N	ILE	928	-6.607	84.957	43.093	1.00	162.74	N
ATOM	7228	CA	ILE	928	-7.435	86.143	42.931	1.00	162.74	C
ATOM	7229	CB	ILE	928	-6.980	87.293	43.797	1.00	162.74	C
ATOM	7230	CG1	ILE	928	-5.477	87.516	43.596	1.00	162.74	C
ATOM	7231	CG2	ILE	928	-7.424	87.124	45.256	1.00	162.74	C
ATOM	7232	CD1	ILE	928	-4.982	88.792	44.261	1.00	162.74	C
ATOM	7233	C	ILE	928	-7.443	86.681	41.521	1.00	162.74	C
ATOM	7234	O	ILE	928	-6.910	87.769	41.279	1.00	162.74	O
ATOM	7235	N	ASP	929	-8.015	85.953	40.537	1.00	129.89	N
ATOM	7236	CA	ASP	929	-8.085	86.542	39.225	1.00	129.89	C
ATOM	7237	CB	ASP	929	-8.164	85.481	38.113	1.00	129.89	C
ATOM	7238	CG	ASP	929	-7.765	86.148	36.806	1.00	129.89	C
ATOM	7239	OD1	ASP	929	-8.323	87.233	36.496	1.00	129.89	O
ATOM	7240	OD2	ASP	929	-6.890	85.578	36.100	1.00	129.89	O
ATOM	7241	C	ASP	929	-9.258	87.467	39.077	1.00	129.89	C
ATOM	7242	O	ASP	929	-9.127	88.689	39.013	1.00	129.89	O
ATOM	7243	N	SER	930	-10.467	86.871	39.105	1.00	156.24	N
ATOM	7244	CA	SER	930	-11.694	87.594	38.937	1.00	156.24	C
ATOM	7245	CB	SER	930	-12.338	87.488	37.546	1.00	156.24	C

ATOM	7246	OG	SER	930	-11.643	88.308	36.623	1.00156.24
ATOM	7247	C	SER	930	-12.643	86.957	39.870	1.00156.24
ATOM	7248	O	SER	930	-12.408	85.844	40.329	1.00156.24
ATOM	7249	N	TYR	931	-13.698	87.696	40.236	1.00133.77
ATOM	7250	CA	TYR	931	-14.720	87.175	41.087	1.00133.77
ATOM	7251	CB	TYR	931	-14.372	87.200	42.595	1.00133.77
ATOM	7252	CG	TYR	931	-13.161	86.385	42.890	1.00133.77
ATOM	7253	CD1	TYR	931	-13.216	85.014	42.815	1.00133.77
ATOM	7254	CD2	TYR	931	-11.979	86.991	43.256	1.00133.77
ATOM	7255	CE1	TYR	931	-12.104	84.256	43.086	1.00133.77
ATOM	7256	CE2	TYR	931	-10.861	86.238	43.529	1.00133.77
ATOM	7257	CZ	TYR	931	-10.928	84.867	43.442	1.00133.77
ATOM	7258	OH	TYR	931	-9.794	84.078	43.717	1.00133.77
ATOM	7259	C	TYR	931	-15.831	88.170	40.971	1.00133.77
ATOM	7260	O	TYR	931	-15.684	89.186	40.293	1.00133.77
ATOM	7261	N	SER	932	-17.025	87.846	41.500	1.00 90.02
ATOM	7262	CA	SER	932	-18.007	88.876	41.684	1.00 90.02
ATOM	7263	CB	SER	932	-19.447	88.341	41.667	1.00 90.02
ATOM	7264	OG	SER	932	-20.362	89.411	41.855	1.00 90.02
ATOM	7265	C	SER	932	-17.773	89.493	43.033	1.00 90.02
ATOM	7266	O	SER	932	-17.384	90.653	43.169	1.00 90.02
ATOM	7267	N	THR	933	-18.084	88.680	44.075	1.00109.94
ATOM	7268	CA	THR	933	-17.930	88.953	45.477	1.00109.94
ATOM	7269	CB	THR	933	-16.633	88.460	46.053	1.00109.94
ATOM	7270	OG1	THR	933	-15.547	88.840	45.231	1.00109.94
ATOM	7271	CG2	THR	933	-16.687	86.926	46.166	1.00109.94
ATOM	7272	C	THR	933	-18.261	90.374	45.765	1.00109.94
ATOM	7273	O	THR	933	-17.697	90.981	46.674	1.00109.94
ATOM	7274	N	GLU	934	-19.243	90.893	44.999	1.00212.18
ATOM	7275	CA	GLU	934	-19.767	92.226	45.081	1.00212.18
ATOM	7276	CB	GLU	934	-18.851	93.264	45.758	1.00212.18
ATOM	7277	CG	GLU	934	-17.467	93.368	45.118	1.00212.18
ATOM	7278	CD	GLU	934	-17.564	94.336	43.952	1.00212.18
ATOM	7279	OE1	GLU	934	-17.659	95.562	44.225	1.00212.18
ATOM	7280	OE2	GLU	934	-17.543	93.876	42.779	1.00212.18
ATOM	7281	C	GLU	934	-20.030	92.698	43.690	1.00212.18
ATOM	7282	O	GLU	934	-19.454	92.218	42.714	1.00212.18
ATOM	7283	N	GLY	935	-21.045	93.564	43.597	1.00 95.86
ATOM	7284	CA	GLY	935	-21.528	94.292	42.463	1.00 95.86
ATOM	7285	C	GLY	935	-20.760	95.552	42.172	1.00 95.86
ATOM	7286	O	GLY	935	-20.902	96.120	41.090	1.00 95.86
ATOM	7287	N	LEU	936	-19.992	96.082	43.146	1.00163.98
ATOM	7288	CA	LEU	936	-19.442	97.405	42.986	1.00163.98
ATOM	7289	CB	LEU	936	-18.663	97.603	41.666	1.00163.98
ATOM	7290	CG	LEU	936	-17.696	98.817	41.604	1.00163.98
ATOM	7291	CD1	LEU	936	-17.189	99.025	40.169	1.00163.98
ATOM	7292	CD2	LEU	936	-18.229	100.109	42.246	1.00163.98
ATOM	7293	C	LEU	936	-20.654	98.290	42.974	1.00163.98
ATOM	7294	O	LEU	936	-20.797	99.236	42.202	1.00163.98
ATOM	7295	N	MET	937	-21.593	97.976	43.879	1.00 71.77
ATOM	7296	CA	MET	937	-22.813	98.718	43.948	1.00 71.77
ATOM	7297	CB	MET	937	-23.733	98.233	45.075	1.00 71.77
ATOM	7298	CG	MET	937	-24.186	96.795	44.829	1.00 71.77
ATOM	7299	SD	MET	937	-24.951	95.952	46.240	1.00 71.77
ATOM	7300	CE	MET	937	-24.734	94.319	45.476	1.00 71.77
ATOM	7301	C	MET	937	-22.491	100.168	44.139	1.00 71.77
ATOM	7302	O	MET	937	-21.472	100.562	44.703	1.00 71.77
ATOM	7303	N	PRO	938	-23.386	100.954	43.618	1.00 93.16
ATOM	7304	CA	PRO	938	-23.233	102.383	43.619	1.00 93.16
ATOM	7305	CD	PRO	938	-24.167	100.496	42.481	1.00 93.16
ATOM	7306	CB	PRO	938	-24.322	102.911	42.691	1.00 93.16
ATOM	7307	CG	PRO	938	-24.521	101.762	41.685	1.00 93.16
ATOM	7308	C	PRO	938	-23.219	103.002	44.984	1.00 93.16
ATOM	7309	O	PRO	938	-22.946	104.199	45.056	1.00 93.16
ATOM	7310	N	ASN	939	-23.638	102.251	46.028	1.00 86.34
ATOM	7311	CA	ASN	939	-23.646	102.620	47.429	1.00 86.34
ATOM	7312	CB	ASN	939	-24.741	101.902	48.237	1.00 86.34
ATOM	7313	CG	ASN	939	-24.509	100.403	48.145	1.00 86.34
ATOM	7314	OD1	ASN	939	-24.725	99.798	47.097	1.00 86.34
ATOM	7315	ND2	ASN	939	-24.063	99.784	49.271	1.00 86.34
ATOM	7316	C	ASN	939	-22.327	102.373	48.127	1.00 86.34
ATOM	7317	O	ASN	939	-22.034	102.994	49.148	1.00 86.34
ATOM	7318	N	THR	940	-21.490	101.474	47.576	1.00162.90
ATOM	7319	CA	THR	940	-20.291	100.922	48.164	1.00162.90

ATOM	7320	CB	THR	940	-19.605	99.941	47.261	1.00162.90	C
ATOM	7321	OG1	THR	940	-18.560	99.281	47.960	1.00162.90	O
ATOM	7322	CG2	THR	940	-19.038	100.700	46.049	1.00162.90	C
ATOM	7323	C	THR	940	-19.290	101.987	48.493	1.00162.90	C
ATOM	7324	O	THR	940	-18.235	101.697	49.051	1.00162.90	O
ATOM	7325	N	LEU	941	-19.567	103.228	48.078	1.00135.22	N
ATOM	7326	CA	LEU	941	-18.730	104.386	48.215	1.00135.22	C
ATOM	7327	CB	LEU	941	-19.327	105.632	47.538	1.00135.22	C
ATOM	7328	CG	LEU	941	-19.364	105.553	46.000	1.00135.22	C
ATOM	7329	CD1	LEU	941	-20.249	104.394	45.517	1.00135.22	C
ATOM	7330	CD2	LEU	941	-19.761	106.904	45.383	1.00135.22	C
ATOM	7331	C	LEU	941	-18.410	104.781	49.637	1.00135.22	C
ATOM	7332	O	LEU	941	-17.415	105.477	49.829	1.00135.22	O
ATOM	7333	N	GLU	942	-19.215	104.411	50.662	1.00158.29	N
ATOM	7334	CA	GLU	942	-19.002	104.959	51.988	1.00158.29	C
ATOM	7335	CB	GLU	942	-19.920	104.337	53.054	1.00158.29	C
ATOM	7336	CG	GLU	942	-19.769	104.982	54.433	1.00158.29	C
ATOM	7337	CD	GLU	942	-20.298	106.408	54.353	1.00158.29	C
ATOM	7338	OE1	GLU	942	-20.692	106.840	53.236	1.00158.29	O
ATOM	7339	OE2	GLU	942	-20.308	107.088	55.414	1.00158.29	O
ATOM	7340	C	GLU	942	-17.577	104.779	52.449	1.00158.29	C
ATOM	7341	O	GLU	942	-16.881	105.774	52.640	1.00158.29	O
ATOM	7342	N	GLY	943	-17.055	103.540	52.544	1.00 54.31	N
ATOM	7343	CA	GLY	943	-15.663	103.418	52.881	1.00 54.31	C
ATOM	7344	C	GLY	943	-15.379	103.329	54.356	1.00 54.31	C
ATOM	7345	O	GLY	943	-14.354	103.841	54.807	1.00 54.31	O
ATOM	7346	N	ASN	944	-16.263	102.693	55.156	1.00 65.72	N
ATOM	7347	CA	ASN	944	-15.940	102.485	56.546	1.00 65.72	C
ATOM	7348	CB	ASN	944	-17.153	102.458	57.494	1.00 65.72	C
ATOM	7349	CG	ASN	944	-17.657	103.880	57.695	1.00 65.72	C
ATOM	7350	OD1	ASN	944	-17.197	104.818	57.045	1.00 65.72	O
ATOM	7351	ND2	ASN	944	-18.619	104.049	58.641	1.00 65.72	N
ATOM	7352	C	ASN	944	-15.280	101.137	56.643	1.00 65.72	C
ATOM	7353	O	ASN	944	-15.833	100.139	56.186	1.00 65.72	O
ATOM	7354	N	VAL	945	-14.069	101.071	57.246	1.00 61.33	N
ATOM	7355	CA	VAL	945	-13.331	99.831	57.288	1.00 61.33	C
ATOM	7356	CB	VAL	945	-11.850	100.019	57.121	1.00 61.33	C
ATOM	7357	CG1	VAL	945	-11.158	98.652	57.262	1.00 61.33	C
ATOM	7358	CG2	VAL	945	-11.594	100.713	55.773	1.00 61.33	C
ATOM	7359	C	VAL	945	-13.534	99.097	58.588	1.00 61.33	C
ATOM	7360	O	VAL	945	-13.473	99.683	59.668	1.00 61.33	O
ATOM	7361	N	THR	946	-13.752	97.761	58.521	1.00130.21	N
ATOM	7362	CA	THR	946	-13.954	97.047	59.751	1.00130.21	C
ATOM	7363	CB	THR	946	-15.322	96.442	59.891	1.00130.21	C
ATOM	7364	OG1	THR	946	-15.504	95.404	58.942	1.00130.21	O
ATOM	7365	CG2	THR	946	-16.370	97.545	59.663	1.00130.21	C
ATOM	7366	C	THR	946	-12.966	95.926	59.893	1.00130.21	C
ATOM	7367	O	THR	946	-12.842	95.070	59.023	1.00130.21	O
ATOM	7368	N	PHE	947	-12.227	95.896	61.019	1.00 90.44	N
ATOM	7369	CA	PHE	947	-11.328	94.803	61.261	1.00 90.44	C
ATOM	7370	CB	PHE	947	-9.871	95.187	61.581	1.00 90.44	C
ATOM	7371	CG	PHE	947	-9.103	95.366	60.319	1.00 90.44	C
ATOM	7372	CD1	PHE	947	-8.794	94.260	59.561	1.00 90.44	C
ATOM	7373	CD2	PHE	947	-8.658	96.602	59.910	1.00 90.44	C
ATOM	7374	CE1	PHE	947	-8.078	94.377	58.395	1.00 90.44	C
ATOM	7375	CE2	PHE	947	-7.938	96.724	58.743	1.00 90.44	C
ATOM	7376	CZ	PHE	947	-7.650	95.614	57.983	1.00 90.44	C
ATOM	7377	C	PHE	947	-11.804	94.071	62.468	1.00 90.44	C
ATOM	7378	O	PHE	947	-11.928	94.645	63.551	1.00 90.44	O
ATOM	7379	N	GLY	948	-12.053	92.757	62.324	1.00 41.58	N
ATOM	7380	CA	GLY	948	-12.521	92.052	63.475	1.00 41.58	C
ATOM	7381	C	GLY	948	-11.804	90.747	63.594	1.00 41.58	C
ATOM	7382	O	GLY	948	-11.684	89.976	62.644	1.00 41.58	O
ATOM	7383	N	GLU	949	-11.297	90.496	64.811	1.00164.36	N
ATOM	7384	CA	GLU	949	-10.678	89.275	65.230	1.00164.36	C
ATOM	7385	CB	GLU	949	-11.538	88.048	64.879	1.00164.36	C
ATOM	7386	CG	GLU	949	-10.944	86.712	65.330	1.00164.36	C
ATOM	7387	CD	GLU	949	-11.273	86.521	66.802	1.00164.36	C
ATOM	7388	OE1	GLU	949	-11.916	87.435	67.383	1.00164.36	O
ATOM	7389	OE2	GLU	949	-10.889	85.459	67.361	1.00164.36	O
ATOM	7390	C	GLU	949	-9.353	89.087	64.568	1.00164.36	C
ATOM	7391	O	GLU	949	-8.519	88.389	65.142	1.00164.36	O
ATOM	7392	N	VAL	950	-9.082	89.856	63.485	1.00 87.64	N
ATOM	7393	CA	VAL	950	-7.957	89.730	62.588	1.00 87.64	C

ATOM	7394	CB	VAL	950	-7.564	91.060	62.005	1.00	87.64	C
ATOM	7395	CG1	VAL	950	-6.309	90.886	61.138	1.00	87.64	C
ATOM	7396	CG2	VAL	950	-8.774	91.651	61.259	1.00	87.64	C
ATOM	7397	C	VAL	950	-6.740	89.163	63.266	1.00	87.64	C
ATOM	7398	O	VAL	950	-6.112	89.808	64.104	1.00	87.64	O
ATOM	7399	N	VAL	951	-6.396	87.904	62.905	1.00	59.86	N
ATOM	7400	CA	VAL	951	-5.244	87.224	63.443	1.00	59.86	C
ATOM	7401	CB	VAL	951	-5.591	86.027	64.283	1.00	59.86	C
ATOM	7402	CG1	VAL	951	-6.442	86.505	65.471	1.00	59.86	C
ATOM	7403	CG2	VAL	951	-6.290	84.973	63.407	1.00	59.86	C
ATOM	7404	C	VAL	951	-4.453	86.737	62.260	1.00	59.86	C
ATOM	7405	O	VAL	951	-5.036	86.217	61.310	1.00	59.86	O
ATOM	7406	N	PHE	952	-3.105	86.895	62.260	1.00	109.83	N
ATOM	7407	CA	PHE	952	-2.412	86.492	61.061	1.00	109.83	C
ATOM	7408	CB	PHE	952	-2.958	87.293	59.863	1.00	109.83	C
ATOM	7409	CG	PHE	952	-1.949	87.385	58.775	1.00	109.83	C
ATOM	7410	CD1	PHE	952	-1.751	86.364	57.875	1.00	109.83	C
ATOM	7411	CD2	PHE	952	-1.208	88.540	58.659	1.00	109.83	C
ATOM	7412	CE1	PHE	952	-0.811	86.496	56.880	1.00	109.83	C
ATOM	7413	CE2	PHE	952	-0.269	88.678	57.667	1.00	109.83	C
ATOM	7414	CZ	PHE	952	-0.070	87.650	56.776	1.00	109.83	C
ATOM	7415	C	PHE	952	-0.913	86.687	61.115	1.00	109.83	C
ATOM	7416	O	PHE	952	-0.414	87.594	61.783	1.00	109.83	O
ATOM	7417	N	ASN	953	-0.147	85.802	60.413	1.00	142.75	N
ATOM	7418	CA	ASN	953	1.265	86.046	60.235	1.00	142.75	C
ATOM	7419	CB	ASN	953	2.243	85.422	61.244	1.00	142.75	C
ATOM	7420	CG	ASN	953	2.517	83.986	60.888	1.00	142.75	C
ATOM	7421	OD1	ASN	953	3.337	83.730	60.009	1.00	142.75	O
ATOM	7422	ND2	ASN	953	1.834	83.038	61.581	1.00	142.75	N
ATOM	7423	C	ASN	953	1.669	85.572	58.863	1.00	142.75	C
ATOM	7424	O	ASN	953	1.379	84.448	58.447	1.00	142.75	O
ATOM	7425	N	TYR	954	2.409	86.427	58.132	1.00	92.91	N
ATOM	7426	CA	TYR	954	2.818	86.114	56.789	1.00	92.91	C
ATOM	7427	CB	TYR	954	3.690	87.212	56.146	1.00	92.91	C
ATOM	7428	CG	TYR	954	4.881	87.437	57.016	1.00	92.91	C
ATOM	7429	CD1	TYR	954	4.747	88.115	58.205	1.00	92.91	C
ATOM	7430	CD2	TYR	954	6.128	86.991	56.640	1.00	92.91	C
ATOM	7431	CE1	TYR	954	5.835	88.335	59.016	1.00	92.91	C
ATOM	7432	CE2	TYR	954	7.221	87.208	57.447	1.00	92.91	C
ATOM	7433	CZ	TYR	954	7.074	87.880	58.638	1.00	92.91	C
ATOM	7434	OH	TYR	954	8.189	88.107	59.472	1.00	92.91	O
ATOM	7435	C	TYR	954	3.583	84.839	56.818	1.00	92.91	C
ATOM	7436	O	TYR	954	4.453	84.648	57.664	1.00	92.91	O
ATOM	7437	N	PRO	955	3.261	83.993	55.867	1.00	134.87	N
ATOM	7438	CA	PRO	955	3.736	82.633	55.786	1.00	134.87	C
ATOM	7439	CD	PRO	955	2.730	84.461	54.600	1.00	134.87	C
ATOM	7440	CB	PRO	955	3.498	82.179	54.347	1.00	134.87	C
ATOM	7441	CG	PRO	955	2.464	83.177	53.797	1.00	134.87	C
ATOM	7442	C	PRO	955	5.164	82.485	56.178	1.00	134.87	C
ATOM	7443	O	PRO	955	6.072	82.655	55.366	1.00	134.87	O
ATOM	7444	N	THR	956	5.326	82.186	57.471	1.00	240.74	N
ATOM	7445	CA	THR	956	6.505	81.902	58.214	1.00	240.74	C
ATOM	7446	CB	THR	956	7.478	83.045	58.234	1.00	240.74	C
ATOM	7447	OG1	THR	956	8.677	82.654	58.885	1.00	240.74	O
ATOM	7448	CG2	THR	956	6.840	84.245	58.954	1.00	240.74	C
ATOM	7449	C	THR	956	5.898	81.779	59.573	1.00	240.74	C
ATOM	7450	O	THR	956	6.507	82.082	60.598	1.00	240.74	O
ATOM	7451	N	ARG	957	4.691	81.184	59.569	1.00	132.07	N
ATOM	7452	CA	ARG	957	3.731	81.115	60.633	1.00	132.07	C
ATOM	7453	CB	ARG	957	2.531	80.220	60.284	1.00	132.07	C
ATOM	7454	CG	ARG	957	1.456	80.198	61.372	1.00	132.07	C
ATOM	7455	CD	ARG	957	0.240	79.350	60.999	1.00	132.07	C
ATOM	7456	NE	ARG	957	-0.445	80.032	59.865	1.00	132.07	N
ATOM	7457	CZ	ARG	957	-0.838	79.313	58.773	1.00	132.07	C
ATOM	7458	NH1	ARG	957	-0.575	77.976	58.705	1.00	132.07	N
ATOM	7459	NH2	ARG	957	-1.491	79.934	57.748	1.00	132.07	N
ATOM	7460	C	ARG	957	4.328	80.611	61.907	1.00	132.07	C
ATOM	7461	O	ARG	957	3.821	80.992	62.960	1.00	132.07	O
ATOM	7462	N	PRO	958	5.333	79.784	61.934	1.00	94.01	N
ATOM	7463	CA	PRO	958	5.851	79.353	63.201	1.00	94.01	C
ATOM	7464	CD	PRO	958	5.604	78.799	60.901	1.00	94.01	C
ATOM	7465	CB	PRO	958	6.895	78.278	62.884	1.00	94.01	C
ATOM	7466	CG	PRO	958	6.953	78.219	61.342	1.00	94.01	C
ATOM	7467	C	PRO	958	6.352	80.509	64.005	1.00	94.01	C

ATOM	7468	O	PRO	958	6.482	80.391	65.222	1.00	94.01	O
ATOM	7469	N	ASP	959	6.634	81.634	63.338	1.00	146.67	N
ATOM	7470	CA	ASP	959	7.081	82.852	63.945	1.00	146.67	C
ATOM	7471	CB	ASP	959	7.498	83.915	62.917	1.00	146.67	C
ATOM	7472	CG	ASP	959	8.796	83.447	62.277	1.00	146.67	C
ATOM	7473	OD1	ASP	959	9.502	82.619	62.912	1.00	146.67	O
ATOM	7474	OD2	ASP	959	9.096	83.905	61.143	1.00	146.67	O
ATOM	7475	C	ASP	959	5.936	83.397	64.740	1.00	146.67	C
ATOM	7476	O	ASP	959	6.052	84.437	65.386	1.00	146.67	O
ATOM	7477	N	ILE	960	4.748	82.777	64.624	1.00	131.66	N
ATOM	7478	CA	ILE	960	3.618	83.294	65.336	1.00	131.66	C
ATOM	7479	CB	ILE	960	3.858	83.584	66.796	1.00	131.66	C
ATOM	7480	CG1	ILE	960	4.159	82.281	67.556	1.00	131.66	C
ATOM	7481	CG2	ILE	960	2.637	84.336	67.351	1.00	131.66	C
ATOM	7482	CD1	ILE	960	4.636	82.510	68.989	1.00	131.66	C
ATOM	7483	C	ILE	960	3.217	84.545	64.629	1.00	131.66	C
ATOM	7484	O	ILE	960	4.019	85.176	63.942	1.00	131.66	O
ATOM	7485	N	PRO	961	1.950	84.835	64.699	1.00	176.08	N
ATOM	7486	CA	PRO	961	1.415	85.993	64.035	1.00	176.08	C
ATOM	7487	CD	PRO	961	0.966	83.774	64.823	1.00	176.08	C
ATOM	7488	CB	PRO	961	-0.085	85.724	63.870	1.00	176.08	C
ATOM	7489	CG	PRO	961	-0.377	84.507	64.766	1.00	176.08	C
ATOM	7490	C	PRO	961	1.714	87.317	64.676	1.00	176.08	C
ATOM	7491	O	PRO	961	1.901	87.379	65.889	1.00	176.08	O
ATOM	7492	N	VAL	962	1.835	88.366	63.835	1.00	93.41	N
ATOM	7493	CA	VAL	962	2.000	89.750	64.182	1.00	93.41	C
ATOM	7494	CB	VAL	962	2.588	90.548	63.055	1.00	93.41	C
ATOM	7495	CG1	VAL	962	4.039	90.078	62.864	1.00	93.41	C
ATOM	7496	CG2	VAL	962	1.745	90.328	61.790	1.00	93.41	C
ATOM	7497	C	VAL	962	0.671	90.314	64.581	1.00	93.41	C
ATOM	7498	O	VAL	962	0.600	91.366	65.215	1.00	93.41	O
ATOM	7499	N	LEU	963	-0.424	89.675	64.123	1.00	133.32	N
ATOM	7500	CA	LEU	963	-1.752	90.110	64.460	1.00	133.32	C
ATOM	7501	CB	LEU	963	-2.608	90.370	63.215	1.00	133.32	C
ATOM	7502	CG	LEU	963	-2.245	91.672	62.483	1.00	133.32	C
ATOM	7503	CD1	LEU	963	-0.738	91.824	62.277	1.00	133.32	C
ATOM	7504	CD2	LEU	963	-2.982	91.738	61.145	1.00	133.32	C
ATOM	7505	C	LEU	963	-2.412	89.007	65.221	1.00	133.32	C
ATOM	7506	O	LEU	963	-2.730	87.961	64.658	1.00	133.32	O
ATOM	7507	N	GLN	964	-2.651	89.223	66.529	1.00	144.50	N
ATOM	7508	CA	GLN	964	-3.246	88.196	67.332	1.00	144.50	C
ATOM	7509	CB	GLN	964	-2.396	87.851	68.564	1.00	144.50	C
ATOM	7510	CG	GLN	964	-0.958	87.429	68.269	1.00	144.50	C
ATOM	7511	CD	GLN	964	-0.228	87.388	69.604	1.00	144.50	C
ATOM	7512	OE1	GLN	964	-0.668	86.734	70.548	1.00	144.50	O
ATOM	7513	NE2	GLN	964	0.912	88.124	69.695	1.00	144.50	N
ATOM	7514	C	GLN	964	-4.506	88.748	67.927	1.00	144.50	C
ATOM	7515	O	GLN	964	-4.463	89.314	69.019	1.00	144.50	O
ATOM	7516	N	GLY	965	-5.666	88.547	67.269	1.00	35.76	N
ATOM	7517	CA	GLY	965	-6.901	89.010	67.845	1.00	35.76	C
ATOM	7518	C	GLY	965	-7.014	90.503	67.746	1.00	35.76	C
ATOM	7519	O	GLY	965	-7.267	91.176	68.745	1.00	35.76	O
ATOM	7520	N	LEU	966	-6.837	91.063	66.533	1.00	72.74	N
ATOM	7521	CA	LEU	966	-6.890	92.492	66.369	1.00	72.74	C
ATOM	7522	CB	LEU	966	-5.858	93.008	65.354	1.00	72.74	C
ATOM	7523	CG	LEU	966	-5.965	94.517	65.089	1.00	72.74	C
ATOM	7524	CD1	LEU	966	-5.753	95.315	66.381	1.00	72.74	C
ATOM	7525	CD2	LEU	966	-5.019	94.952	63.958	1.00	72.74	C
ATOM	7526	C	LEU	966	-8.241	92.921	65.873	1.00	72.74	C
ATOM	7527	O	LEU	966	-8.869	92.218	65.083	1.00	72.74	O
ATOM	7528	N	SER	967	-8.734	94.088	66.358	1.00	68.90	N
ATOM	7529	CA	SER	967	-9.991	94.619	65.899	1.00	68.90	C
ATOM	7530	CB	SER	967	-11.196	94.105	66.703	1.00	68.90	C
ATOM	7531	OG	SER	967	-11.324	92.700	66.544	1.00	68.90	O
ATOM	7532	C	SER	967	-9.983	96.120	66.025	1.00	68.90	C
ATOM	7533	O	SER	967	-9.810	96.662	67.116	1.00	68.90	O
ATOM	7534	N	LEU	968	-10.215	96.825	64.895	1.00	108.88	N
ATOM	7535	CA	LEU	968	-10.212	98.265	64.840	1.00	108.88	C
ATOM	7536	CB	LEU	968	-8.882	98.815	64.303	1.00	108.88	C
ATOM	7537	CG	LEU	968	-7.654	98.224	65.023	1.00	108.88	C
ATOM	7538	CD1	LEU	968	-6.345	98.794	64.471	1.00	108.88	C
ATOM	7539	CD2	LEU	968	-7.750	98.369	66.545	1.00	108.88	C
ATOM	7540	C	LEU	968	-11.248	98.622	63.816	1.00	108.88	C
ATOM	7541	O	LEU	968	-11.939	97.746	63.299	1.00	108.88	O

ATOM	7542	N	GLU	969	-11.416	99.928	63.525	1.00134.27	N
ATOM	7543	CA	GLU	969	-12.355	100.315	62.508	1.00134.27	C
ATOM	7544	CB	GLU	969	-13.821	100.196	62.966	1.00134.27	C
ATOM	7545	CG	GLU	969	-14.177	101.069	64.173	1.00134.27	C
ATOM	7546	CD	GLU	969	-14.818	102.359	63.688	1.00134.27	C
ATOM	7547	OE1	GLU	969	-15.729	102.264	62.824	1.00134.27	O
ATOM	7548	OE2	GLU	969	-14.427	103.450	64.183	1.00134.27	O
ATOM	7549	C	GLU	969	-12.091	101.746	62.167	1.00134.27	C
ATOM	7550	O	GLU	969	-11.376	102.449	62.879	1.00134.27	O
ATOM	7551	N	VAL	970	-12.634	102.207	61.026	1.00127.94	N
ATOM	7552	CA	VAL	970	-12.438	103.578	60.661	1.00127.94	C
ATOM	7553	CB	VAL	970	-11.300	103.750	59.690	1.00127.94	C
ATOM	7554	CG1	VAL	970	-11.657	103.047	58.369	1.00127.94	C
ATOM	7555	CG2	VAL	970	-10.984	105.244	59.540	1.00127.94	C
ATOM	7556	C	VAL	970	-13.705	104.068	60.025	1.00127.94	C
ATOM	7557	O	VAL	970	-14.262	103.437	59.130	1.00127.94	O
ATOM	7558	N	LYS	971	-14.173	105.248	60.464	1.00121.24	N
ATOM	7559	CA	LYS	971	-15.392	105.839	59.997	1.00121.24	C
ATOM	7560	CB	LYS	971	-15.774	107.041	60.860	1.00121.24	C
ATOM	7561	CG	LYS	971	-15.975	106.559	62.294	1.00121.24	C
ATOM	7562	CD	LYS	971	-15.783	107.627	63.360	1.00121.24	C
ATOM	7563	CE	LYS	971	-15.775	107.043	64.774	1.00121.24	C
ATOM	7564	NZ	LYS	971	-14.628	106.120	64.930	1.00121.24	N
ATOM	7565	C	LYS	971	-15.192	106.241	58.571	1.00121.24	C
ATOM	7566	O	LYS	971	-14.323	105.702	57.888	1.00121.24	O
ATOM	7567	N	LYS	972	-16.039	107.158	58.066	1.00148.24	N
ATOM	7568	CA	LYS	972	-15.983	107.520	56.677	1.00148.24	C
ATOM	7569	CB	LYS	972	-17.395	107.467	56.051	1.00148.24	C
ATOM	7570	CG	LYS	972	-17.518	107.653	54.535	1.00148.24	C
ATOM	7571	CD	LYS	972	-17.300	109.078	54.026	1.00148.24	C
ATOM	7572	CE	LYS	972	-17.597	109.249	52.534	1.00148.24	C
ATOM	7573	NZ	LYS	972	-16.741	108.344	51.734	1.00148.24	N
ATOM	7574	C	LYS	972	-15.425	108.906	56.532	1.00148.24	C
ATOM	7575	O	LYS	972	-15.436	109.705	57.465	1.00148.24	O
ATOM	7576	N	GLY	973	-14.818	109.178	55.359	1.00 51.03	N
ATOM	7577	CA	GLY	973	-14.361	110.486	54.984	1.00 51.03	C
ATOM	7578	C	GLY	973	-13.493	111.046	56.064	1.00 51.03	C
ATOM	7579	O	GLY	973	-13.408	112.264	56.211	1.00 51.03	O
ATOM	7580	N	GLN	974	-12.802	110.184	56.833	1.00135.73	N
ATOM	7581	CA	GLN	974	-12.048	110.671	57.953	1.00135.73	C
ATOM	7582	CB	GLN	974	-12.811	110.491	59.281	1.00135.73	C
ATOM	7583	CG	GLN	974	-13.496	109.135	59.474	1.00135.73	C
ATOM	7584	CD	GLN	974	-12.478	108.022	59.584	1.00135.73	C
ATOM	7585	OE1	GLN	974	-11.764	107.719	58.629	1.00135.73	O
ATOM	7586	NE2	GLN	974	-12.426	107.384	60.784	1.00135.73	N
ATOM	7587	C	GLN	974	-10.638	110.144	58.003	1.00135.73	C
ATOM	7588	O	GLN	974	-10.020	109.916	56.963	1.00135.73	O
ATOM	7589	N	THR	975	-10.042	110.040	59.219	1.00 81.81	N
ATOM	7590	CA	THR	975	-8.660	109.630	59.263	1.00 81.81	C
ATOM	7591	CB	THR	975	-7.731	110.801	59.368	1.00 81.81	C
ATOM	7592	OG1	THR	975	-7.924	111.666	58.258	1.00 81.81	O
ATOM	7593	CG2	THR	975	-6.279	110.295	59.405	1.00 81.81	C
ATOM	7594	C	THR	975	-8.341	108.726	60.421	1.00 81.81	C
ATOM	7595	O	THR	975	-8.316	109.152	61.578	1.00 81.81	O
ATOM	7596	N	LEU	976	-7.990	107.457	60.111	1.00120.60	N
ATOM	7597	CA	LEU	976	-7.634	106.504	61.127	1.00120.60	C
ATOM	7598	CB	LEU	976	-7.937	105.048	60.715	1.00120.60	C
ATOM	7599	CG	LEU	976	-7.669	103.960	61.782	1.00120.60	C
ATOM	7600	CD1	LEU	976	-6.176	103.804	62.114	1.00120.60	C
ATOM	7601	CD2	LEU	976	-8.542	104.172	63.028	1.00120.60	C
ATOM	7602	C	LEU	976	-6.157	106.644	61.356	1.00120.60	C
ATOM	7603	O	LEU	976	-5.345	106.436	60.454	1.00120.60	O
ATOM	7604	N	ALA	977	-5.774	106.984	62.604	1.00 51.91	N
ATOM	7605	CA	ALA	977	-4.391	107.216	62.931	1.00 51.91	C
ATOM	7606	CB	ALA	977	-4.184	108.320	63.982	1.00 51.91	C
ATOM	7607	C	ALA	977	-3.784	105.965	63.475	1.00 51.91	C
ATOM	7608	O	ALA	977	-4.292	105.345	64.410	1.00 51.91	O
ATOM	7609	N	LEU	978	-2.634	105.570	62.903	1.00132.36	N
ATOM	7610	CA	LEU	978	-2.064	104.340	63.348	1.00132.36	C
ATOM	7611	CB	LEU	978	-1.914	103.343	62.182	1.00132.36	C
ATOM	7612	CG	LEU	978	-1.607	101.894	62.594	1.00132.36	C
ATOM	7613	CD1	LEU	978	-0.246	101.758	63.292	1.00132.36	C
ATOM	7614	CD2	LEU	978	-2.771	101.312	63.410	1.00132.36	C
ATOM	7615	C	LEU	978	-0.709	104.592	63.939	1.00132.36	C

ATOM	7616	O	LEU	978	0.177	105.151	63.291	1.00132.36	O
ATOM	7617	N	VAL	979	-0.531	104.190	65.218	1.00120.47	N
ATOM	7618	CA	VAL	979	0.750	104.279	65.863	1.00120.47	C
ATOM	7619	CB	VAL	979	0.806	105.341	66.933	1.00120.47	C
ATOM	7620	CG1	VAL	979	-0.325	105.111	67.950	1.00120.47	C
ATOM	7621	CG2	VAL	979	2.211	105.329	67.559	1.00120.47	C
ATOM	7622	C	VAL	979	1.045	102.940	66.478	1.00120.47	C
ATOM	7623	O	VAL	979	0.397	102.521	67.436	1.00120.47	O
ATOM	7624	N	GLY	980	2.040	102.216	65.921	1.00 46.12	N
ATOM	7625	CA	GLY	980	2.374	100.919	66.442	1.00 46.12	C
ATOM	7626	C	GLY	980	3.738	100.956	67.056	1.00 46.12	C
ATOM	7627	O	GLY	980	4.282	102.023	67.339	1.00 46.12	O
ATOM	7628	N	SER	981	4.296	99.750	67.317	1.00 64.53	N
ATOM	7629	CA	SER	981	5.618	99.602	67.858	1.00 64.53	C
ATOM	7630	CB	SER	981	5.909	98.169	68.346	1.00 64.53	C
ATOM	7631	OG	SER	981	5.750	97.236	67.288	1.00 64.53	O
ATOM	7632	C	SER	981	6.643	99.992	66.837	1.00 64.53	C
ATOM	7633	O	SER	981	7.287	101.034	66.948	1.00 64.53	O
ATOM	7634	N	SER	982	6.811	99.154	65.793	1.00 89.65	N
ATOM	7635	CA	SER	982	7.765	99.439	64.765	1.00 89.65	C
ATOM	7636	CB	SER	982	9.217	99.499	65.268	1.00 89.65	C
ATOM	7637	OG	SER	982	9.629	98.218	65.722	1.00 89.65	O
ATOM	7638	C	SER	982	7.689	98.334	63.761	1.00 89.65	C
ATOM	7639	O	SER	982	7.266	97.222	64.074	1.00 89.65	O
ATOM	7640	N	GLY	983	8.100	98.632	62.514	1.00 32.63	N
ATOM	7641	CA	GLY	983	8.155	97.652	61.470	1.00 32.63	C
ATOM	7642	C	GLY	983	6.803	97.064	61.221	1.00 32.63	C
ATOM	7643	O	GLY	983	5.864	97.746	60.811	1.00 32.63	O
ATOM	7644	N	CYS	984	6.689	95.749	61.476	1.00 95.95	N
ATOM	7645	CA	CYS	984	5.508	94.999	61.176	1.00 95.95	C
ATOM	7646	CB	CYS	984	5.658	93.504	61.511	1.00 95.95	C
ATOM	7647	SG	CYS	984	4.254	92.492	60.956	1.00 95.95	S
ATOM	7648	C	CYS	984	4.357	95.543	61.960	1.00 95.95	C
ATOM	7649	O	CYS	984	4.525	96.351	62.870	1.00 95.95	O
ATOM	7650	N	GLY	985	3.135	95.156	61.545	1.00 46.71	N
ATOM	7651	CA	GLY	985	1.924	95.525	62.214	1.00 46.71	C
ATOM	7652	C	GLY	985	1.228	96.554	61.393	1.00 46.71	C
ATOM	7653	O	GLY	985	0.107	96.357	60.929	1.00 46.71	O
ATOM	7654	N	LYS	986	1.902	97.690	61.177	1.00 64.46	N
ATOM	7655	CA	LYS	986	1.327	98.752	60.413	1.00 64.46	C
ATOM	7656	CB	LYS	986	2.238	99.986	60.447	1.00 64.46	C
ATOM	7657	CG	LYS	986	2.516	100.440	61.883	1.00 64.46	C
ATOM	7658	CD	LYS	986	3.711	101.383	62.031	1.00 64.46	C
ATOM	7659	CE	LYS	986	3.958	101.819	63.479	1.00 64.46	C
ATOM	7660	NZ	LYS	986	5.155	102.688	63.553	1.00 64.46	N
ATOM	7661	C	LYS	986	1.220	98.274	59.001	1.00 64.46	C
ATOM	7662	O	LYS	986	0.210	98.479	58.328	1.00 64.46	O
ATOM	7663	N	SER	987	2.289	97.609	58.525	1.00 49.36	N
ATOM	7664	CA	SER	987	2.350	97.146	57.172	1.00 49.36	C
ATOM	7665	CB	SER	987	3.721	96.546	56.821	1.00 49.36	C
ATOM	7666	OG	SER	987	3.978	95.413	57.638	1.00 49.36	O
ATOM	7667	C	SER	987	1.330	96.078	56.964	1.00 49.36	C
ATOM	7668	O	SER	987	0.571	96.116	55.998	1.00 49.36	O
ATOM	7669	N	THR	988	1.268	95.111	57.898	1.00117.55	N
ATOM	7670	CA	THR	988	0.397	93.983	57.754	1.00117.55	C
ATOM	7671	CB	THR	988	0.524	93.016	58.888	1.00117.55	C
ATOM	7672	OG1	THR	988	-0.356	91.930	58.679	1.00117.55	O
ATOM	7673	CG2	THR	988	0.189	93.712	60.210	1.00117.55	C
ATOM	7674	C	THR	988	-1.020	94.445	57.688	1.00117.55	C
ATOM	7675	O	THR	988	-1.807	93.926	56.898	1.00117.55	O
ATOM	7676	N	VAL	989	-1.392	95.430	58.522	1.00 51.93	N
ATOM	7677	CA	VAL	989	-2.749	95.883	58.507	1.00 51.93	C
ATOM	7678	CB	VAL	989	-2.995	97.000	59.481	1.00 51.93	C
ATOM	7679	CG1	VAL	989	-4.429	97.521	59.282	1.00 51.93	C
ATOM	7680	CG2	VAL	989	-2.716	96.483	60.901	1.00 51.93	C
ATOM	7681	C	VAL	989	-3.076	96.408	57.144	1.00 51.93	C
ATOM	7682	O	VAL	989	-4.043	95.959	56.528	1.00 51.93	O
ATOM	7683	N	VAL	990	-2.242	97.322	56.601	1.00127.03	N
ATOM	7684	CA	VAL	990	-2.587	97.912	55.335	1.00127.03	C
ATOM	7685	CB	VAL	990	-1.624	98.950	54.819	1.00127.03	C
ATOM	7686	CG1	VAL	990	-1.649	100.149	55.774	1.00127.03	C
ATOM	7687	CG2	VAL	990	-0.232	98.339	54.623	1.00127.03	C
ATOM	7688	C	VAL	990	-2.696	96.836	54.315	1.00127.03	C
ATOM	7689	O	VAL	990	-3.673	96.777	53.571	1.00127.03	O

ATOM	7690	N	GLN	991	-1.732	95.907	54.311	1.00	80.71	N
ATOM	7691	CA	GLN	991	-1.727	94.871	53.327	1.00	80.71	C
ATOM	7692	CB	GLN	991	-0.583	93.876	53.565	1.00	80.71	C
ATOM	7693	CG	GLN	991	0.797	94.509	53.375	1.00	80.71	C
ATOM	7694	CD	GLN	991	1.832	93.599	54.014	1.00	80.71	C
ATOM	7695	OE1	GLN	991	1.692	93.202	55.170	1.00	80.71	O
ATOM	7696	NE2	GLN	991	2.902	93.258	53.249	1.00	80.71	N
ATOM	7697	C	GLN	991	-3.015	94.130	53.442	1.00	80.71	C
ATOM	7698	O	GLN	991	-3.688	93.913	52.442	1.00	80.71	O
ATOM	7699	N	LEU	992	-3.456	93.827	54.674	1.00	69.03	N
ATOM	7700	CA	LEU	992	-4.640	93.033	54.857	1.00	69.03	C
ATOM	7701	CB	LEU	992	-5.019	92.857	56.336	1.00	69.03	C
ATOM	7702	CG	LEU	992	-4.058	91.928	57.097	1.00	69.03	C
ATOM	7703	CD1	LEU	992	-4.469	91.772	58.568	1.00	69.03	C
ATOM	7704	CD2	LEU	992	-3.944	90.568	56.389	1.00	69.03	C
ATOM	7705	C	LEU	992	-5.802	93.688	54.176	1.00	69.03	C
ATOM	7706	O	LEU	992	-6.637	92.999	53.591	1.00	69.03	O
ATOM	7707	N	LEU	993	-5.904	95.029	54.245	1.00	62.32	N
ATOM	7708	CA	LEU	993	-6.983	95.729	53.594	1.00	62.32	C
ATOM	7709	CB	LEU	993	-6.911	97.248	53.811	1.00	62.32	C
ATOM	7710	CG	LEU	993	-7.955	98.030	52.996	1.00	62.32	C
ATOM	7711	CD1	LEU	993	-9.387	97.666	53.417	1.00	62.32	C
ATOM	7712	CD2	LEU	993	-7.679	99.541	53.047	1.00	62.32	C
ATOM	7713	C	LEU	993	-6.854	95.500	52.126	1.00	62.32	C
ATOM	7714	O	LEU	993	-7.839	95.317	51.410	1.00	62.32	O
ATOM	7715	N	GLU	994	-5.599	95.522	51.657	1.00	134.00	N
ATOM	7716	CA	GLU	994	-5.226	95.273	50.300	1.00	134.00	C
ATOM	7717	CB	GLU	994	-3.737	95.541	50.028	1.00	134.00	C
ATOM	7718	CG	GLU	994	-3.397	97.031	49.964	1.00	134.00	C
ATOM	7719	CD	GLU	994	-3.885	97.546	48.616	1.00	134.00	C
ATOM	7720	OE1	GLU	994	-4.935	97.042	48.135	1.00	134.00	O
ATOM	7721	OE2	GLU	994	-3.208	98.442	48.046	1.00	134.00	O
ATOM	7722	C	GLU	994	-5.514	93.830	50.040	1.00	134.00	C
ATOM	7723	O	GLU	994	-5.410	93.343	48.918	1.00	134.00	O
ATOM	7724	N	ARG	995	-5.769	93.083	51.122	1.00	142.00	N
ATOM	7725	CA	ARG	995	-6.088	91.695	51.052	1.00	142.00	C
ATOM	7726	CB	ARG	995	-7.435	91.405	50.372	1.00	142.00	C
ATOM	7727	CG	ARG	995	-7.960	90.005	50.693	1.00	142.00	C
ATOM	7728	CD	ARG	995	-9.290	89.665	50.021	1.00	142.00	C
ATOM	7729	NE	ARG	995	-9.002	88.644	48.976	1.00	142.00	N
ATOM	7730	CZ	ARG	995	-10.024	87.929	48.422	1.00	142.00	C
ATOM	7731	NH1	ARG	995	-11.314	88.205	48.768	1.00	142.00	N
ATOM	7732	NH2	ARG	995	-9.758	86.948	47.511	1.00	142.00	N
ATOM	7733	C	ARG	995	-5.004	91.002	50.295	1.00	142.00	C
ATOM	7734	O	ARG	995	-5.290	90.193	49.413	1.00	142.00	O
ATOM	7735	N	PHE	996	-3.729	91.362	50.569	1.00	99.18	N
ATOM	7736	CA	PHE	996	-2.640	90.658	49.961	1.00	99.18	C
ATOM	7737	CB	PHE	996	-1.257	91.306	50.145	1.00	99.18	C
ATOM	7738	CG	PHE	996	-1.238	92.590	49.393	1.00	99.18	C
ATOM	7739	CD1	PHE	996	-1.588	92.618	48.062	1.00	99.18	C
ATOM	7740	CD2	PHE	996	-0.820	93.752	49.999	1.00	99.18	C
ATOM	7741	CE1	PHE	996	-1.561	93.796	47.355	1.00	99.18	C
ATOM	7742	CE2	PHE	996	-0.789	94.933	49.295	1.00	99.18	C
ATOM	7743	CZ	PHE	996	-1.165	94.958	47.973	1.00	99.18	C
ATOM	7744	C	PHE	996	-2.567	89.308	50.586	1.00	99.18	C
ATOM	7745	O	PHE	996	-2.494	88.289	49.905	1.00	99.18	O
ATOM	7746	N	TYR	997	-2.614	89.285	51.929	1.00	98.73	N
ATOM	7747	CA	TYR	997	-2.561	88.066	52.677	1.00	98.73	C
ATOM	7748	CB	TYR	997	-1.538	88.098	53.824	1.00	98.73	C
ATOM	7749	CG	TYR	997	-0.206	88.549	53.329	1.00	98.73	C
ATOM	7750	CD1	TYR	997	-0.011	89.883	53.058	1.00	98.73	C
ATOM	7751	CD2	TYR	997	0.846	87.673	53.167	1.00	98.73	C
ATOM	7752	CE1	TYR	997	1.206	90.341	52.619	1.00	98.73	C
ATOM	7753	CE2	TYR	997	2.069	88.128	52.727	1.00	98.73	C
ATOM	7754	CZ	TYR	997	2.249	89.464	52.453	1.00	98.73	C
ATOM	7755	OH	TYR	997	3.498	89.943	52.007	1.00	98.73	O
ATOM	7756	C	TYR	997	-3.888	88.031	53.373	1.00	98.73	C
ATOM	7757	O	TYR	997	-4.361	89.061	53.852	1.00	98.73	O
ATOM	7758	N	ASP	998	-4.546	86.859	53.434	1.00	75.21	N
ATOM	7759	CA	ASP	998	-5.823	86.806	54.097	1.00	75.21	C
ATOM	7760	CB	ASP	998	-6.812	85.792	53.491	1.00	75.21	C
ATOM	7761	CG	ASP	998	-7.473	86.432	52.279	1.00	75.21	C
ATOM	7762	OD1	ASP	998	-7.949	87.589	52.428	1.00	75.21	O
ATOM	7763	OD2	ASP	998	-7.514	85.786	51.199	1.00	75.21	O

ATOM	7764	C	ASP	998	-5.618	86.430	55.525	1.00	75.21	C
ATOM	7765	O	ASP	998	-4.881	85.501	55.851	1.00	75.21	O
ATOM	7766	N	PRO	999	-6.298	87.150	56.378	1.00	82.35	N
ATOM	7767	CA	PRO	999	-6.195	86.952	57.797	1.00	82.35	C
ATOM	7768	CD	PRO	999	-7.538	87.807	56.001	1.00	82.35	C
ATOM	7769	CB	PRO	999	-7.272	87.846	58.408	1.00	82.35	C
ATOM	7770	CG	PRO	999	-8.345	87.914	57.305	1.00	82.35	C
ATOM	7771	C	PRO	999	-6.414	85.511	58.126	1.00	82.35	C
ATOM	7772	O	PRO	999	-7.265	84.873	57.510	1.00	82.35	O
ATOM	7773	N	LEU	1000	-5.637	84.978	59.085	1.00	46.88	N
ATOM	7774	CA	LEU	1000	-5.764	83.612	59.487	1.00	46.88	C
ATOM	7775	CB	LEU	1000	-4.712	83.186	60.528	1.00	46.88	C
ATOM	7776	CG	LEU	1000	-3.272	83.216	59.986	1.00	46.88	C
ATOM	7777	CD1	LEU	1000	-2.261	82.771	61.054	1.00	46.88	C
ATOM	7778	CD2	LEU	1000	-3.153	82.417	58.679	1.00	46.88	C
ATOM	7779	C	LEU	1000	-7.119	83.441	60.094	1.00	46.88	C
ATOM	7780	O	LEU	1000	-7.750	82.404	59.909	1.00	46.88	O
ATOM	7781	N	ALA	1001	-7.603	84.440	60.859	1.00	36.83	N
ATOM	7782	CA	ALA	1001	-8.908	84.305	61.449	1.00	36.83	C
ATOM	7783	CB	ALA	1001	-8.883	83.675	62.852	1.00	36.83	C
ATOM	7784	C	ALA	1001	-9.517	85.671	61.591	1.00	36.83	C
ATOM	7785	O	ALA	1001	-8.809	86.663	61.764	1.00	36.83	O
ATOM	7786	N	GLY	1002	-10.867	85.751	61.549	1.00	32.73	N
ATOM	7787	CA	GLY	1002	-11.541	87.016	61.678	1.00	32.73	C
ATOM	7788	C	GLY	1002	-11.835	87.530	60.300	1.00	32.73	C
ATOM	7789	O	GLY	1002	-11.607	86.824	59.320	1.00	32.73	O
ATOM	7790	N	LYS	1003	-12.378	88.769	60.185	1.00	143.23	N
ATOM	7791	CA	LYS	1003	-12.715	89.264	58.876	1.00	143.23	C
ATOM	7792	CB	LYS	1003	-14.092	88.795	58.380	1.00	143.23	C
ATOM	7793	CG	LYS	1003	-14.137	87.295	58.084	1.00	143.23	C
ATOM	7794	CD	LYS	1003	-15.550	86.754	57.863	1.00	143.23	C
ATOM	7795	CE	LYS	1003	-16.288	86.434	59.164	1.00	143.23	C
ATOM	7796	NZ	LYS	1003	-15.716	85.217	59.779	1.00	143.23	N
ATOM	7797	C	LYS	1003	-12.698	90.769	58.838	1.00	143.23	C
ATOM	7798	O	LYS	1003	-12.380	91.434	59.821	1.00	143.23	O
ATOM	7799	N	VAL	1004	-13.028	91.350	57.660	1.00	105.71	N
ATOM	7800	CA	VAL	1004	-12.973	92.780	57.518	1.00	105.71	C
ATOM	7801	CB	VAL	1004	-11.705	93.193	56.823	1.00	105.71	C
ATOM	7802	CG1	VAL	1004	-11.643	94.707	56.600	1.00	105.71	C
ATOM	7803	CG2	VAL	1004	-10.516	92.642	57.592	1.00	105.71	C
ATOM	7804	C	VAL	1004	-14.145	93.214	56.687	1.00	105.71	C
ATOM	7805	O	VAL	1004	-14.842	92.374	56.129	1.00	105.71	O
ATOM	7806	N	LEU	1005	-14.454	94.531	56.661	1.00	126.13	N
ATOM	7807	CA	LEU	1005	-15.485	95.066	55.813	1.00	126.13	C
ATOM	7808	CB	LEU	1005	-16.868	95.185	56.480	1.00	126.13	C
ATOM	7809	CG	LEU	1005	-17.546	93.837	56.801	1.00	126.13	C
ATOM	7810	CD1	LEU	1005	-16.817	93.076	57.918	1.00	126.13	C
ATOM	7811	CD2	LEU	1005	-19.043	94.021	57.092	1.00	126.13	C
ATOM	7812	C	LEU	1005	-15.075	96.457	55.435	1.00	126.13	C
ATOM	7813	O	LEU	1005	-15.100	97.375	56.251	1.00	126.13	O
ATOM	7814	N	LEU	1006	-14.744	96.662	54.153	1.00	217.02	N
ATOM	7815	CA	LEU	1006	-14.337	97.940	53.641	1.00	217.02	C
ATOM	7816	CB	LEU	1006	-13.886	97.898	52.165	1.00	217.02	C
ATOM	7817	CG	LEU	1006	-14.783	97.068	51.225	1.00	217.02	C
ATOM	7818	CD1	LEU	1006	-14.685	95.574	51.548	1.00	217.02	C
ATOM	7819	CD2	LEU	1006	-16.231	97.570	51.206	1.00	217.02	C
ATOM	7820	C	LEU	1006	-15.494	98.868	53.777	1.00	217.02	C
ATOM	7821	O	LEU	1006	-15.347	100.087	53.692	1.00	217.02	O
ATOM	7822	N	ASP	1007	-16.708	98.308	53.888	1.00	182.77	N
ATOM	7823	CA	ASP	1007	-17.833	99.172	54.035	1.00	182.77	C
ATOM	7824	CB	ASP	1007	-18.247	99.822	52.711	1.00	182.77	C
ATOM	7825	CG	ASP	1007	-19.444	100.716	52.988	1.00	182.77	C
ATOM	7826	OD1	ASP	1007	-19.510	101.299	54.104	1.00	182.77	O
ATOM	7827	OD2	ASP	1007	-20.324	100.809	52.092	1.00	182.77	O
ATOM	7828	C	ASP	1007	-19.001	98.357	54.473	1.00	182.77	C
ATOM	7829	O	ASP	1007	-19.819	98.822	55.261	1.00	182.77	O
ATOM	7830	N	GLY	1008	-19.070	97.067	54.107	1.00	188.91	N
ATOM	7831	CA	GLY	1008	-20.335	96.484	54.425	1.00	188.91	C
ATOM	7832	C	GLY	1008	-20.369	95.009	54.199	1.00	188.91	C
ATOM	7833	O	GLY	1008	-21.366	94.376	54.539	1.00	188.91	O
ATOM	7834	N	LYS	1009	-19.332	94.395	53.609	1.00	231.88	N
ATOM	7835	CA	LYS	1009	-19.448	92.969	53.514	1.00	231.88	C
ATOM	7836	CB	LYS	1009	-20.264	92.514	52.288	1.00	231.88	C
ATOM	7837	CG	LYS	1009	-19.752	93.066	50.952	1.00	231.88	C

ATOM	7838	CD	LYS	1009	-19.793	94.593	50.835	1.00231.88	C
ATOM	7839	CE	LYS	1009	-21.204	95.173	50.725	1.00231.88	C
ATOM	7840	NZ	LYS	1009	-21.156	96.643	50.901	1.00231.88	N
ATOM	7841	C	LYS	1009	-18.082	92.404	53.402	1.00231.88	C
ATOM	7842	O	LYS	1009	-17.304	92.862	52.574	1.00231.88	O
ATOM	7843	N	GLU	1010	-17.828	91.330	54.175	1.00129.33	N
ATOM	7844	CA	GLU	1010	-16.571	90.669	54.393	1.00129.33	C
ATOM	7845	CB	GLU	1010	-16.694	89.138	54.506	1.00129.33	C
ATOM	7846	CG	GLU	1010	-17.482	88.644	55.718	1.00129.33	C
ATOM	7847	CD	GLU	1010	-17.489	87.122	55.656	1.00129.33	C
ATOM	7848	OE1	GLU	1010	-16.693	86.558	54.859	1.00129.33	O
ATOM	7849	OE2	GLU	1010	-18.293	86.504	56.403	1.00129.33	O
ATOM	7850	C	GLU	1010	-15.571	90.908	53.321	1.00129.33	C
ATOM	7851	O	GLU	1010	-15.681	90.409	52.200	1.00129.33	O
ATOM	7852	N	ILE	1011	-14.507	91.664	53.681	1.00288.19	N
ATOM	7853	CA	ILE	1011	-13.373	91.708	52.836	1.00288.19	C
ATOM	7854	CB	ILE	1011	-12.669	93.036	52.673	1.00288.19	C
ATOM	7855	CG1	ILE	1011	-11.694	92.951	51.500	1.00288.19	C
ATOM	7856	CG2	ILE	1011	-11.973	93.473	53.944	1.00288.19	C
ATOM	7857	CD1	ILE	1011	-12.375	92.843	50.141	1.00288.19	C
ATOM	7858	C	ILE	1011	-12.528	90.599	53.360	1.00288.19	C
ATOM	7859	O	ILE	1011	-11.529	90.774	54.056	1.00288.19	O
ATOM	7860	N	LYS	1012	-13.228	89.454	53.394	1.00218.31	N
ATOM	7861	CA	LYS	1012	-12.840	88.102	53.309	1.00218.31	C
ATOM	7862	CB	LYS	1012	-13.744	87.228	54.194	1.00218.31	C
ATOM	7863	CG	LYS	1012	-13.425	85.735	54.177	1.00218.31	C
ATOM	7864	CD	LYS	1012	-13.656	85.075	52.816	1.00218.31	C
ATOM	7865	CE	LYS	1012	-13.409	83.565	52.805	1.00218.31	C
ATOM	7866	NZ	LYS	1012	-11.960	83.290	52.910	1.00218.31	N
ATOM	7867	C	LYS	1012	-13.167	87.830	51.887	1.00218.31	C
ATOM	7868	O	LYS	1012	-12.360	87.381	51.075	1.00218.31	O
ATOM	7869	N	ARG	1013	-14.431	88.200	51.562	1.00169.48	N
ATOM	7870	CA	ARG	1013	-14.908	88.010	50.236	1.00169.48	C
ATOM	7871	CB	ARG	1013	-15.691	86.702	50.000	1.00169.48	C
ATOM	7872	CG	ARG	1013	-16.912	86.449	50.883	1.00169.48	C
ATOM	7873	CD	ARG	1013	-17.474	85.043	50.648	1.00169.48	C
ATOM	7874	NE	ARG	1013	-18.529	84.769	51.663	1.00169.48	N
ATOM	7875	CZ	ARG	1013	-18.939	83.483	51.871	1.00169.48	C
ATOM	7876	NH1	ARG	1013	-18.377	82.462	51.159	1.00169.48	N
ATOM	7877	NH2	ARG	1013	-19.908	83.214	52.794	1.00169.48	N
ATOM	7878	C	ARG	1013	-15.677	89.195	49.740	1.00169.48	C
ATOM	7879	O	ARG	1013	-16.854	89.389	50.042	1.00169.48	O
ATOM	7880	N	LEU	1014	-14.946	90.034	48.983	1.00236.10	N
ATOM	7881	CA	LEU	1014	-15.387	91.116	48.144	1.00236.10	C
ATOM	7882	CB	LEU	1014	-14.928	92.560	48.397	1.00236.10	C
ATOM	7883	CG	LEU	1014	-15.642	93.332	49.482	1.00236.10	C
ATOM	7884	CD1	LEU	1014	-17.155	93.418	49.224	1.00236.10	C
ATOM	7885	CD2	LEU	1014	-15.233	92.771	50.828	1.00236.10	C
ATOM	7886	C	LEU	1014	-14.566	90.891	46.936	1.00236.10	C
ATOM	7887	O	LEU	1014	-13.493	90.300	47.041	1.00236.10	O
ATOM	7888	N	ASN	1015	-15.011	91.382	45.767	1.00101.22	N
ATOM	7889	CA	ASN	1015	-14.178	91.166	44.623	1.00101.22	C
ATOM	7890	CB	ASN	1015	-14.786	91.629	43.289	1.00101.22	C
ATOM	7891	CG	ASN	1015	-13.683	91.506	42.252	1.00101.22	C
ATOM	7892	OD1	ASN	1015	-12.846	92.397	42.132	1.00101.22	O
ATOM	7893	ND2	ASN	1015	-13.647	90.373	41.504	1.00101.22	N
ATOM	7894	C	ASN	1015	-12.896	91.895	44.831	1.00101.22	C
ATOM	7895	O	ASN	1015	-12.871	93.119	44.916	1.00101.22	O
ATOM	7896	N	VAL	1016	-11.783	91.138	44.838	1.00 98.14	N
ATOM	7897	CA	VAL	1016	-10.487	91.670	45.134	1.00 98.14	C
ATOM	7898	CB	VAL	1016	-9.396	90.658	44.957	1.00 98.14	C
ATOM	7899	CG1	VAL	1016	-8.051	91.383	45.037	1.00 98.14	C
ATOM	7900	CG2	VAL	1016	-9.545	89.570	46.021	1.00 98.14	C
ATOM	7901	C	VAL	1016	-10.133	92.780	44.204	1.00 98.14	C
ATOM	7902	O	VAL	1016	-9.697	93.839	44.656	1.00 98.14	O
ATOM	7903	N	GLN	1017	-10.326	92.587	42.886	1.00152.50	N
ATOM	7904	CA	GLN	1017	-9.869	93.615	41.996	1.00152.50	C
ATOM	7905	CB	GLN	1017	-9.988	93.293	40.496	1.00152.50	C
ATOM	7906	CG	GLN	1017	-11.397	93.149	39.929	1.00152.50	C
ATOM	7907	CD	GLN	1017	-11.194	92.859	38.454	1.00152.50	C
ATOM	7908	OE1	GLN	1017	-10.059	92.828	37.982	1.00152.50	O
ATOM	7909	NE2	GLN	1017	-12.309	92.649	37.704	1.00152.50	N
ATOM	7910	C	GLN	1017	-10.591	94.885	42.295	1.00152.50	C
ATOM	7911	O	GLN	1017	-10.011	95.967	42.224	1.00152.50	O

ATOM	7912	N	TRP	1018	-11.890	94.789	42.618	1.00122.87	N
ATOM	7913	CA	TRP	1018	-12.653	95.946	42.992	1.00122.87	C
ATOM	7914	CB	TRP	1018	-14.150	95.662	43.150	1.00122.87	C
ATOM	7915	CG	TRP	1018	-14.877	96.832	43.759	1.00122.87	C
ATOM	7916	CD2	TRP	1018	-15.185	96.938	45.159	1.00122.87	C
ATOM	7917	CD1	TRP	1018	-15.349	97.968	43.172	1.00122.87	C
ATOM	7918	NE1	TRP	1018	-15.928	98.779	44.118	1.00122.87	N
ATOM	7919	CE2	TRP	1018	-15.834	98.156	45.345	1.00122.87	C
ATOM	7920	CE3	TRP	1018	-14.942	96.088	46.203	1.00122.87	C
ATOM	7921	CZ2	TRP	1018	-16.252	98.547	46.585	1.00122.87	C
ATOM	7922	CZ3	TRP	1018	-15.368	96.483	47.451	1.00122.87	C
ATOM	7923	CH2	TRP	1018	-16.011	97.690	47.637	1.00122.87	C
ATOM	7924	C	TRP	1018	-12.193	96.466	44.317	1.00122.87	C
ATOM	7925	O	TRP	1018	-12.070	97.676	44.504	1.00122.87	O
ATOM	7926	N	LEU	1019	-11.921	95.558	45.276	1.00 83.68	N
ATOM	7927	CA	LEU	1019	-11.535	95.986	46.593	1.00 83.68	C
ATOM	7928	CB	LEU	1019	-11.122	94.825	47.510	1.00 83.68	C
ATOM	7929	CG	LEU	1019	-10.616	95.305	48.883	1.00 83.68	C
ATOM	7930	CD1	LEU	1019	-11.753	95.903	49.722	1.00 83.68	C
ATOM	7931	CD2	LEU	1019	-9.816	94.212	49.609	1.00 83.68	C
ATOM	7932	C	LEU	1019	-10.321	96.841	46.429	1.00 83.68	C
ATOM	7933	O	LEU	1019	-10.194	97.899	47.040	1.00 83.68	O
ATOM	7934	N	ARG	1020	-9.407	96.387	45.567	1.00128.57	N
ATOM	7935	CA	ARG	1020	-8.179	97.058	45.259	1.00128.57	C
ATOM	7936	CB	ARG	1020	-7.176	96.134	44.550	1.00128.57	C
ATOM	7937	CG	ARG	1020	-6.794	94.967	45.466	1.00128.57	C
ATOM	7938	CD	ARG	1020	-5.798	93.967	44.882	1.00128.57	C
ATOM	7939	NE	ARG	1020	-5.593	92.918	45.921	1.00128.57	N
ATOM	7940	CZ	ARG	1020	-4.910	91.776	45.619	1.00128.57	C
ATOM	7941	NH1	ARG	1020	-4.392	91.609	44.367	1.00128.57	N
ATOM	7942	NH2	ARG	1020	-4.748	90.806	46.566	1.00128.57	N
ATOM	7943	C	ARG	1020	-8.459	98.266	44.429	1.00128.57	C
ATOM	7944	O	ARG	1020	-7.594	99.119	44.254	1.00128.57	O
ATOM	7945	N	ALA	1021	-9.658	98.343	43.833	1.00 52.70	N
ATOM	7946	CA	ALA	1021	-9.983	99.485	43.034	1.00 52.70	C
ATOM	7947	CB	ALA	1021	-11.437	99.474	42.530	1.00 52.70	C
ATOM	7948	C	ALA	1021	-9.819	100.681	43.923	1.00 52.70	C
ATOM	7949	O	ALA	1021	-9.265	101.698	43.508	1.00 52.70	O
ATOM	7950	N	HIS	1022	-10.268	100.583	45.191	1.00 62.36	N
ATOM	7951	CA	HIS	1022	-10.117	101.709	46.067	1.00 62.36	C
ATOM	7952	ND1	HIS	1022	-13.428	101.241	45.614	1.00 62.36	N
ATOM	7953	CG	HIS	1022	-12.576	102.228	46.057	1.00 62.36	C
ATOM	7954	CB	HIS	1022	-11.372	101.975	46.914	1.00 62.36	C
ATOM	7955	NE2	HIS	1022	-14.185	103.153	44.772	1.00 62.36	N
ATOM	7956	CD2	HIS	1022	-13.054	103.390	45.534	1.00 62.36	C
ATOM	7957	CE1	HIS	1022	-14.370	101.848	44.851	1.00 62.36	C
ATOM	7958	C	HIS	1022	-8.974	101.456	47.008	1.00 62.36	C
ATOM	7959	O	HIS	1022	-9.034	100.574	47.864	1.00 62.36	O
ATOM	7960	N	LEU	1023	-7.873	102.222	46.857	1.00164.12	N
ATOM	7961	CA	LEU	1023	-6.768	102.061	47.759	1.00164.12	C
ATOM	7962	CB	LEU	1023	-6.053	100.698	47.578	1.00164.12	C
ATOM	7963	CG	LEU	1023	-5.289	100.485	46.249	1.00164.12	C
ATOM	7964	CD1	LEU	1023	-4.971	99.001	46.017	1.00164.12	C
ATOM	7965	CD2	LEU	1023	-5.974	101.168	45.056	1.00164.12	C
ATOM	7966	C	LEU	1023	-5.807	103.194	47.535	1.00164.12	C
ATOM	7967	O	LEU	1023	-4.955	103.157	46.650	1.00164.12	O
ATOM	7968	N	GLY	1024	-5.885	104.251	48.359	1.00 54.29	N
ATOM	7969	CA	GLY	1024	-4.959	105.317	48.121	1.00 54.29	C
ATOM	7970	C	GLY	1024	-3.716	104.939	48.847	1.00 54.29	C
ATOM	7971	O	GLY	1024	-3.456	105.426	49.944	1.00 54.29	O
ATOM	7972	N	ILE	1025	-2.886	104.087	48.215	1.00112.44	N
ATOM	7973	CA	ILE	1025	-1.709	103.586	48.859	1.00112.44	C
ATOM	7974	CB	ILE	1025	-1.462	102.126	48.598	1.00112.44	C
ATOM	7975	CG1	ILE	1025	-0.203	101.638	49.339	1.00112.44	C
ATOM	7976	CG2	ILE	1025	-1.406	101.927	47.075	1.00112.44	C
ATOM	7977	CD1	ILE	1025	-0.333	101.650	50.861	1.00112.44	C
ATOM	7978	C	ILE	1025	-0.509	104.332	48.376	1.00112.44	C
ATOM	7979	O	ILE	1025	-0.400	104.673	47.200	1.00112.44	O
ATOM	7980	N	VAL	1026	0.385	104.673	49.325	1.00 71.76	N
ATOM	7981	CA	VAL	1026	1.652	105.285	49.050	1.00 71.76	C
ATOM	7982	CB	VAL	1026	1.594	106.785	49.037	1.00 71.76	C
ATOM	7983	CG1	VAL	1026	3.012	107.327	48.800	1.00 71.76	C
ATOM	7984	CG2	VAL	1026	0.576	107.227	47.970	1.00 71.76	C
ATOM	7985	C	VAL	1026	2.524	104.858	50.192	1.00 71.76	C

ATOM	7986	O	VAL	1026	2.112	104.949	51.348	1.00	71.76	O
ATOM	7987	N	SER	1027	3.764	104.405	49.912	1.00	69.27	N
ATOM	7988	CA	SER	1027	4.561	103.862	50.978	1.00	69.27	C
ATOM	7989	CB	SER	1027	4.727	102.330	50.874	1.00	69.27	C
ATOM	7990	OG	SER	1027	5.324	101.795	52.047	1.00	69.27	O
ATOM	7991	C	SER	1027	5.923	104.492	50.982	1.00	69.27	C
ATOM	7992	O	SER	1027	6.224	105.380	50.184	1.00	69.27	O
ATOM	7993	N	GLN	1028	6.792	103.998	51.891	1.00	96.75	N
ATOM	7994	CA	GLN	1028	8.081	104.566	52.147	1.00	96.75	C
ATOM	7995	CB	GLN	1028	8.934	103.619	53.003	1.00	96.75	C
ATOM	7996	CG	GLN	1028	8.325	103.291	54.365	1.00	96.75	C
ATOM	7997	CD	GLN	1028	8.928	104.253	55.368	1.00	96.75	C
ATOM	7998	OE1	GLN	1028	8.308	104.607	56.369	1.00	96.75	O
ATOM	7999	NE2	GLN	1028	10.191	104.674	55.092	1.00	96.75	N
ATOM	8000	C	GLN	1028	8.812	104.696	50.858	1.00	96.75	C
ATOM	8001	O	GLN	1028	9.113	105.809	50.430	1.00	96.75	O
ATOM	8002	N	GLU	1029	9.050	103.575	50.154	1.00	75.56	N
ATOM	8003	CA	GLU	1029	9.758	103.730	48.921	1.00	75.56	C
ATOM	8004	CB	GLU	1029	10.843	102.678	48.659	1.00	75.56	C
ATOM	8005	CG	GLU	1029	11.672	103.026	47.424	1.00	75.56	C
ATOM	8006	CD	GLU	1029	12.743	101.970	47.268	1.00	75.56	C
ATOM	8007	OE1	GLU	1029	13.484	101.731	48.259	1.00	75.56	O
ATOM	8008	OE2	GLU	1029	12.832	101.385	46.156	1.00	75.56	O
ATOM	8009	C	GLU	1029	8.757	103.639	47.822	1.00	75.56	C
ATOM	8010	O	GLU	1029	8.109	102.614	47.613	1.00	75.56	O
ATOM	8011	N	PRO	1030	8.635	104.724	47.117	1.00	127.45	N
ATOM	8012	CA	PRO	1030	7.739	104.823	46.001	1.00	127.45	C
ATOM	8013	CD	PRO	1030	9.017	106.030	47.624	1.00	127.45	C
ATOM	8014	CB	PRO	1030	7.521	106.320	45.758	1.00	127.45	C
ATOM	8015	CG	PRO	1030	8.693	107.002	46.480	1.00	127.45	C
ATOM	8016	C	PRO	1030	8.432	104.133	44.877	1.00	127.45	C
ATOM	8017	O	PRO	1030	9.432	103.473	45.146	1.00	127.45	O
ATOM	8018	N	ILE	1031	7.854	104.160	43.659	1.00	214.14	N
ATOM	8019	CA	ILE	1031	8.476	103.613	42.474	1.00	214.14	C
ATOM	8020	CB	ILE	1031	8.516	102.092	42.353	1.00	214.14	C
ATOM	8021	CG1	ILE	1031	7.111	101.454	42.406	1.00	214.14	C
ATOM	8022	CG2	ILE	1031	9.526	101.470	43.318	1.00	214.14	C
ATOM	8023	CD1	ILE	1031	6.336	101.410	41.086	1.00	214.14	C
ATOM	8024	C	ILE	1031	7.666	104.004	41.288	1.00	214.14	C
ATOM	8025	O	ILE	1031	6.505	104.387	41.413	1.00	214.14	O
ATOM	8026	N	LEU	1032	8.262	103.875	40.087	1.00	149.87	N
ATOM	8027	CA	LEU	1032	7.506	104.088	38.883	1.00	149.87	C
ATOM	8028	CB	LEU	1032	7.500	105.550	38.393	1.00	149.87	C
ATOM	8029	CG	LEU	1032	7.063	106.614	39.418	1.00	149.87	C
ATOM	8030	CD1	LEU	1032	8.125	106.809	40.511	1.00	149.87	C
ATOM	8031	CD2	LEU	1032	6.701	107.935	38.720	1.00	149.87	C
ATOM	8032	C	LEU	1032	8.196	103.342	37.774	1.00	149.87	C
ATOM	8033	O	LEU	1032	9.421	103.371	37.671	1.00	149.87	O
ATOM	8034	N	PHE	1033	7.422	102.667	36.899	1.00	128.72	N
ATOM	8035	CA	PHE	1033	7.974	102.018	35.737	1.00	128.72	C
ATOM	8036	CB	PHE	1033	7.001	101.018	35.079	1.00	128.72	C
ATOM	8037	CG	PHE	1033	7.739	100.265	34.025	1.00	128.72	C
ATOM	8038	CD1	PHE	1033	8.766	99.421	34.375	1.00	128.72	C
ATOM	8039	CD2	PHE	1033	7.390	100.369	32.697	1.00	128.72	C
ATOM	8040	CE1	PHE	1033	9.448	98.715	33.414	1.00	128.72	C
ATOM	8041	CE2	PHE	1033	8.071	99.662	31.732	1.00	128.72	C
ATOM	8042	CZ	PHE	1033	9.106	98.833	32.089	1.00	128.72	C
ATOM	8043	C	PHE	1033	8.263	103.152	34.787	1.00	128.72	C
ATOM	8044	O	PHE	1033	7.713	104.240	34.934	1.00	128.72	O
ATOM	8045	N	ASP	1034	9.076	102.873	33.752	1.00	218.12	N
ATOM	8046	CA	ASP	1034	9.738	103.701	32.775	1.00	218.12	C
ATOM	8047	CB	ASP	1034	10.577	102.862	31.799	1.00	218.12	C
ATOM	8048	CG	ASP	1034	11.637	102.107	32.584	1.00	218.12	C
ATOM	8049	OD1	ASP	1034	12.314	102.740	33.436	1.00	218.12	O
ATOM	8050	OD2	ASP	1034	11.787	100.882	32.334	1.00	218.12	O
ATOM	8051	C	ASP	1034	8.838	104.528	31.903	1.00	218.12	C
ATOM	8052	O	ASP	1034	9.325	105.072	30.915	1.00	218.12	O
ATOM	8053	N	CYS	1035	7.511	104.536	32.104	1.00	65.66	N
ATOM	8054	CA	CYS	1035	6.708	105.375	31.249	1.00	65.66	C
ATOM	8055	CB	CYS	1035	5.196	105.141	31.408	1.00	65.66	C
ATOM	8056	SG	CYS	1035	4.704	103.449	30.963	1.00	65.66	S
ATOM	8057	C	CYS	1035	6.982	106.811	31.603	1.00	65.66	C
ATOM	8058	O	CYS	1035	7.639	107.108	32.599	1.00	65.66	O
ATOM	8059	N	SER	1036	6.515	107.757	30.759	1.00	49.74	N

ATOM	8060	CA	SER	1036	6.699	109.136	31.089	1.00	49.74	C
ATOM	8061	CB	SER	1036	6.189	110.102	30.005	1.00	49.74	C
ATOM	8062	OG	SER	1036	4.791	109.938	29.824	1.00	49.74	O
ATOM	8063	C	SER	1036	5.884	109.343	32.324	1.00	49.74	C
ATOM	8064	O	SER	1036	5.018	108.532	32.641	1.00	49.74	O
ATOM	8065	N	ILE	1037	6.141	110.435	33.064	1.00	76.71	N
ATOM	8066	CA	ILE	1037	5.439	110.656	34.294	1.00	76.71	C
ATOM	8067	CB	ILE	1037	5.831	111.935	34.962	1.00	76.71	C
ATOM	8068	CG1	ILE	1037	5.470	113.115	34.045	1.00	76.71	C
ATOM	8069	CG2	ILE	1037	7.321	111.852	35.335	1.00	76.71	C
ATOM	8070	CD1	ILE	1037	5.433	114.462	34.755	1.00	76.71	C
ATOM	8071	C	ILE	1037	3.981	110.769	33.983	1.00	76.71	C
ATOM	8072	O	ILE	1037	3.137	110.369	34.783	1.00	76.71	O
ATOM	8073	N	ALA	1038	3.640	111.346	32.816	1.00	56.89	N
ATOM	8074	CA	ALA	1038	2.257	111.530	32.485	1.00	56.89	C
ATOM	8075	CB	ALA	1038	2.059	112.136	31.086	1.00	56.89	C
ATOM	8076	C	ALA	1038	1.564	110.197	32.502	1.00	56.89	C
ATOM	8077	O	ALA	1038	0.434	110.091	32.977	1.00	56.89	O
ATOM	8078	N	GLU	1039	2.205	109.149	31.948	1.00	97.73	N
ATOM	8079	CA	GLU	1039	1.642	107.824	31.936	1.00	97.73	C
ATOM	8080	CB	GLU	1039	2.435	106.858	31.043	1.00	97.73	C
ATOM	8081	CG	GLU	1039	2.404	107.253	29.566	1.00	97.73	C
ATOM	8082	CD	GLU	1039	0.945	107.322	29.135	1.00	97.73	C
ATOM	8083	OE1	GLU	1039	0.297	106.243	29.069	1.00	97.73	O
ATOM	8084	OE2	GLU	1039	0.459	108.456	28.878	1.00	97.73	O
ATOM	8085	C	GLU	1039	1.649	107.261	33.326	1.00	97.73	C
ATOM	8086	O	GLU	1039	0.670	106.665	33.776	1.00	97.73	O
ATOM	8087	N	ASN	1040	2.763	107.457	34.056	1.00	93.36	N
ATOM	8088	CA	ASN	1040	2.868	106.904	35.372	1.00	93.36	C
ATOM	8089	CB	ASN	1040	4.173	107.273	36.098	1.00	93.36	C
ATOM	8090	CG	ASN	1040	5.305	106.436	35.525	1.00	93.36	C
ATOM	8091	OD1	ASN	1040	6.469	106.828	35.578	1.00	93.36	O
ATOM	8092	ND2	ASN	1040	4.960	105.243	34.971	1.00	93.36	N
ATOM	8093	C	ASN	1040	1.754	107.469	36.166	1.00	93.36	C
ATOM	8094	O	ASN	1040	1.014	106.711	36.764	1.00	93.36	O
ATOM	8095	N	ILE	1041	1.537	108.796	36.115	1.00	88.11	N
ATOM	8096	CA	ILE	1041	0.486	109.428	36.862	1.00	88.11	C
ATOM	8097	CB	ILE	1041	0.310	110.867	36.471	1.00	88.11	C
ATOM	8098	CG1	ILE	1041	1.588	111.672	36.765	1.00	88.11	C
ATOM	8099	CG2	ILE	1041	-0.946	111.404	37.176	1.00	88.11	C
ATOM	8100	CD1	ILE	1041	1.602	113.053	36.107	1.00	88.11	C
ATOM	8101	C	ILE	1041	-0.765	108.707	36.466	1.00	88.11	C
ATOM	8102	O	ILE	1041	-1.558	108.280	37.301	1.00	88.11	O
ATOM	8103	N	ALA	1042	-0.845	108.415	35.163	1.00	113.02	N
ATOM	8104	CA	ALA	1042	-1.903	107.765	34.454	1.00	113.02	C
ATOM	8105	CB	ALA	1042	-1.699	107.727	32.928	1.00	113.02	C
ATOM	8106	C	ALA	1042	-2.107	106.365	34.935	1.00	113.02	C
ATOM	8107	O	ALA	1042	-2.992	105.712	34.389	1.00	113.02	O
ATOM	8108	N	TYR	1043	-1.215	105.850	35.825	1.00	199.76	N
ATOM	8109	CA	TYR	1043	-1.127	104.483	36.300	1.00	199.76	C
ATOM	8110	CB	TYR	1043	-0.806	104.246	37.799	1.00	199.76	C
ATOM	8111	CG	TYR	1043	0.655	104.333	38.066	1.00	199.76	C
ATOM	8112	CD1	TYR	1043	1.523	103.483	37.421	1.00	199.76	C
ATOM	8113	CD2	TYR	1043	1.156	105.209	39.002	1.00	199.76	C
ATOM	8114	CE1	TYR	1043	2.875	103.545	37.662	1.00	199.76	C
ATOM	8115	CE2	TYR	1043	2.507	105.277	39.245	1.00	199.76	C
ATOM	8116	CZ	TYR	1043	3.369	104.449	38.570	1.00	199.76	C
ATOM	8117	OH	TYR	1043	4.755	104.519	38.821	1.00	199.76	O
ATOM	8118	C	TYR	1043	-2.387	103.754	36.104	1.00	199.76	C
ATOM	8119	O	TYR	1043	-3.331	103.943	36.863	1.00	199.76	O
ATOM	8120	N	GLY	1044	-2.412	103.063	34.945	1.00	176.99	N
ATOM	8121	CA	GLY	1044	-3.290	102.065	34.402	1.00	176.99	C
ATOM	8122	C	GLY	1044	-4.009	101.279	35.447	1.00	176.99	C
ATOM	8123	O	GLY	1044	-3.913	100.055	35.431	1.00	176.99	O
ATOM	8124	N	ASP	1045	-4.784	101.917	36.328	1.00	183.81	N
ATOM	8125	CA	ASP	1045	-5.399	101.267	37.439	1.00	183.81	C
ATOM	8126	CB	ASP	1045	-6.375	102.215	38.140	1.00	183.81	C
ATOM	8127	CG	ASP	1045	-5.681	103.561	38.240	1.00	183.81	C
ATOM	8128	OD1	ASP	1045	-4.685	103.692	38.999	1.00	183.81	O
ATOM	8129	OD2	ASP	1045	-6.150	104.487	37.526	1.00	183.81	O
ATOM	8130	C	ASP	1045	-6.249	100.217	36.826	1.00	183.81	C
ATOM	8131	O	ASP	1045	-6.362	99.096	37.319	1.00	183.81	O
ATOM	8132	N	ASN	1046	-6.866	100.591	35.698	1.00	100.07	N
ATOM	8133	CA	ASN	1046	-7.726	99.697	34.996	1.00	100.07	C

ATOM	8134	CB	ASN	1046	-9.030	99.404	35.762	1.00100.07	C
ATOM	8135	CG	ASN	1046	-9.678	100.726	36.154	1.00100.07	C
ATOM	8136	OD1	ASN	1046	-10.226	101.447	35.321	1.00100.07	O
ATOM	8137	ND2	ASN	1046	-9.618	101.052	37.473	1.00100.07	N
ATOM	8138	C	ASN	1046	-8.037	100.329	33.686	1.00100.07	C
ATOM	8139	O	ASN	1046	-7.200	101.000	33.082	1.00100.07	O
ATOM	8140	N	SER	1047	-9.294	100.168	33.235	1.00 95.68	N
ATOM	8141	CA	SER	1047	-9.757	100.678	31.976	1.00 95.68	C
ATOM	8142	CB	SER	1047	-11.235	100.354	31.716	1.00 95.68	C
ATOM	8143	OG	SER	1047	-11.411	98.948	31.654	1.00 95.68	O
ATOM	8144	C	SER	1047	-9.616	102.166	31.978	1.00 95.68	C
ATOM	8145	O	SER	1047	-9.774	102.799	30.933	1.00 95.68	O
ATOM	8146	N	ARG	1048	-9.320	102.751	33.157	1.00132.80	N
ATOM	8147	CA	ARG	1048	-9.134	104.161	33.304	1.00132.80	C
ATOM	8148	CB	ARG	1048	-8.460	104.534	34.638	1.00132.80	C
ATOM	8149	CG	ARG	1048	-9.341	104.319	35.868	1.00132.80	C
ATOM	8150	CD	ARG	1048	-9.763	105.629	36.535	1.00132.80	C
ATOM	8151	NE	ARG	1048	-10.391	106.485	35.491	1.00132.80	N
ATOM	8152	CZ	ARG	1048	-10.280	107.843	35.572	1.00132.80	C
ATOM	8153	NH1	ARG	1048	-9.568	108.409	36.590	1.00132.80	N
ATOM	8154	NH2	ARG	1048	-10.873	108.637	34.633	1.00132.80	N
ATOM	8155	C	ARG	1048	-8.204	104.608	32.224	1.00132.80	C
ATOM	8156	O	ARG	1048	-7.038	104.219	32.171	1.00132.80	O
ATOM	8157	N	VAL	1049	-8.735	105.451	31.322	1.00102.39	N
ATOM	8158	CA	VAL	1049	-7.991	105.967	30.214	1.00102.39	C
ATOM	8159	CB	VAL	1049	-8.855	106.507	29.111	1.00102.39	C
ATOM	8160	CG1	VAL	1049	-9.694	107.669	29.668	1.00102.39	C
ATOM	8161	CG2	VAL	1049	-7.952	106.901	27.930	1.00102.39	C
ATOM	8162	C	VAL	1049	-7.151	107.077	30.738	1.00102.39	C
ATOM	8163	O	VAL	1049	-7.445	107.637	31.792	1.00102.39	O
ATOM	8164	N	VAL	1050	-6.057	107.404	30.023	1.00 80.55	N
ATOM	8165	CA	VAL	1050	-5.179	108.430	30.497	1.00 80.55	C
ATOM	8166	CB	VAL	1050	-3.883	108.464	29.739	1.00 80.55	C
ATOM	8167	CG1	VAL	1050	-3.000	109.592	30.293	1.00 80.55	C
ATOM	8168	CG2	VAL	1050	-3.236	107.071	29.824	1.00 80.55	C
ATOM	8169	C	VAL	1050	-5.859	109.752	30.320	1.00 80.55	C
ATOM	8170	O	VAL	1050	-5.558	110.502	29.393	1.00 80.55	O
ATOM	8171	N	SER	1051	-6.778	110.095	31.247	1.00117.18	N
ATOM	8172	CA	SER	1051	-7.456	111.354	31.130	1.00117.18	C
ATOM	8173	CB	SER	1051	-8.560	111.589	32.172	1.00117.18	C
ATOM	8174	OG	SER	1051	-9.694	110.789	31.892	1.00117.18	O
ATOM	8175	C	SER	1051	-6.441	112.417	31.365	1.00117.18	C
ATOM	8176	O	SER	1051	-5.889	112.528	32.458	1.00117.18	O
ATOM	8177	N	GLN	1052	-6.203	113.267	30.353	1.00 56.55	N
ATOM	8178	CA	GLN	1052	-5.172	114.249	30.506	1.00 56.55	C
ATOM	8179	CB	GLN	1052	-4.993	115.125	29.255	1.00 56.55	C
ATOM	8180	CG	GLN	1052	-3.892	116.179	29.397	1.00 56.55	C
ATOM	8181	CD	GLN	1052	-3.849	116.988	28.109	1.00 56.55	C
ATOM	8182	OE1	GLN	1052	-2.898	117.724	27.853	1.00 56.55	O
ATOM	8183	NE2	GLN	1052	-4.913	116.850	27.272	1.00 56.55	N
ATOM	8184	C	GLN	1052	-5.514	115.176	31.628	1.00 56.55	C
ATOM	8185	O	GLN	1052	-4.747	115.322	32.575	1.00 56.55	O
ATOM	8186	N	GLU	1053	-6.720	115.762	31.606	1.00 90.98	N
ATOM	8187	CA	GLU	1053	-7.077	116.723	32.613	1.00 90.98	C
ATOM	8188	CB	GLU	1053	-8.492	117.296	32.418	1.00 90.98	C
ATOM	8189	CG	GLU	1053	-9.579	116.228	32.287	1.00 90.98	C
ATOM	8190	CD	GLU	1053	-9.527	115.710	30.857	1.00 90.98	C
ATOM	8191	OE1	GLU	1053	-9.677	116.542	29.923	1.00 90.98	O
ATOM	8192	OE2	GLU	1053	-9.327	114.480	30.681	1.00 90.98	O
ATOM	8193	C	GLU	1053	-7.029	116.010	33.918	1.00 90.98	C
ATOM	8194	O	GLU	1053	-6.743	116.594	34.962	1.00 90.98	O
ATOM	8195	N	GLU	1054	-7.340	114.709	33.889	1.00111.83	N
ATOM	8196	CA	GLU	1054	-7.277	113.945	35.094	1.00111.83	C
ATOM	8197	CB	GLU	1054	-7.701	112.487	34.847	1.00111.83	C
ATOM	8198	CG	GLU	1054	-7.376	111.514	35.981	1.00111.83	C
ATOM	8199	CD	GLU	1054	-8.273	111.813	37.168	1.00111.83	C
ATOM	8200	OE1	GLU	1054	-8.127	112.915	37.759	1.00111.83	O
ATOM	8201	OE2	GLU	1054	-9.113	110.937	37.504	1.00111.83	O
ATOM	8202	C	GLU	1054	-5.861	113.928	35.589	1.00111.83	C
ATOM	8203	O	GLU	1054	-5.592	114.316	36.725	1.00111.83	O
ATOM	8204	N	ILE	1055	-4.902	113.565	34.713	1.00 76.18	N
ATOM	8205	CA	ILE	1055	-3.538	113.429	35.143	1.00 76.18	C
ATOM	8206	CB	ILE	1055	-2.569	112.981	34.083	1.00 76.18	C
ATOM	8207	CG1	ILE	1055	-2.381	114.043	32.992	1.00 76.18	C

ATOM	8208	CG2	ILE	1055	-3.063	111.627	33.551	1.00	76.18	C
ATOM	8209	CD1	ILE	1055	-1.236	113.735	32.031	1.00	76.18	C
ATOM	8210	C	ILE	1055	-3.084	114.759	35.645	1.00	76.18	C
ATOM	8211	O	ILE	1055	-2.232	114.830	36.530	1.00	76.18	O
ATOM	8212	N	VAL	1056	-3.570	115.854	35.025	1.00	142.37	N
ATOM	8213	CA	VAL	1056	-3.212	117.157	35.508	1.00	142.37	C
ATOM	8214	CB	VAL	1056	-3.429	118.307	34.556	1.00	142.37	C
ATOM	8215	CG1	VAL	1056	-2.440	118.139	33.396	1.00	142.37	C
ATOM	8216	CG2	VAL	1056	-4.880	118.382	34.088	1.00	142.37	C
ATOM	8217	C	VAL	1056	-3.852	117.424	36.833	1.00	142.37	C
ATOM	8218	O	VAL	1056	-3.262	118.090	37.682	1.00	142.37	O
ATOM	8219	N	ARG	1057	-5.075	116.909	37.059	1.00	150.26	N
ATOM	8220	CA	ARG	1057	-5.708	117.153	38.321	1.00	150.26	C
ATOM	8221	CB	ARG	1057	-7.075	116.463	38.435	1.00	150.26	C
ATOM	8222	CG	ARG	1057	-7.945	117.031	39.554	1.00	150.26	C
ATOM	8223	CD	ARG	1057	-8.334	118.486	39.293	1.00	150.26	C
ATOM	8224	NE	ARG	1057	-8.545	118.618	37.823	1.00	150.26	N
ATOM	8225	CZ	ARG	1057	-9.397	119.562	37.325	1.00	150.26	C
ATOM	8226	NH1	ARG	1057	-10.089	120.375	38.175	1.00	150.26	N
ATOM	8227	NH2	ARG	1057	-9.558	119.691	35.976	1.00	150.26	N
ATOM	8228	C	ARG	1057	-4.809	116.567	39.361	1.00	150.26	C
ATOM	8229	O	ARG	1057	-4.554	117.178	40.398	1.00	150.26	O
ATOM	8230	N	ALA	1058	-4.288	115.355	39.090	1.00	62.59	N
ATOM	8231	CA	ALA	1058	-3.423	114.718	40.034	1.00	62.59	C
ATOM	8232	CB	ALA	1058	-2.953	113.333	39.576	1.00	62.59	C
ATOM	8233	C	ALA	1058	-2.206	115.554	40.213	1.00	62.59	C
ATOM	8234	O	ALA	1058	-1.911	115.937	41.331	1.00	62.59	O
ATOM	8235	N	ALA	1059	-1.539	115.973	39.125	1.00	57.99	N
ATOM	8236	CA	ALA	1059	-0.312	116.716	39.230	1.00	57.99	C
ATOM	8237	CB	ALA	1059	0.218	117.191	37.866	1.00	57.99	C
ATOM	8238	C	ALA	1059	-0.592	117.934	40.048	1.00	57.99	C
ATOM	8239	O	ALA	1059	0.273	118.411	40.782	1.00	57.99	O
ATOM	8240	N	LYS	1060	-1.810	118.490	39.922	1.00	109.38	N
ATOM	8241	CA	LYS	1060	-2.089	119.661	40.694	1.00	109.38	C
ATOM	8242	CB	LYS	1060	-3.415	120.316	40.287	1.00	109.38	C
ATOM	8243	CG	LYS	1060	-3.301	120.919	38.885	1.00	109.38	C
ATOM	8244	CD	LYS	1060	-4.627	121.324	38.248	1.00	109.38	C
ATOM	8245	CE	LYS	1060	-4.460	121.929	36.853	1.00	109.38	C
ATOM	8246	NZ	LYS	1060	-4.260	120.856	35.855	1.00	109.38	N
ATOM	8247	C	LYS	1060	-2.078	119.385	42.177	1.00	109.38	C
ATOM	8248	O	LYS	1060	-1.195	119.866	42.882	1.00	109.38	O
ATOM	8249	N	GLU	1061	-2.984	118.523	42.683	1.00	107.87	N
ATOM	8250	CA	GLU	1061	-3.081	118.276	44.102	1.00	107.87	C
ATOM	8251	CB	GLU	1061	-4.273	117.382	44.484	1.00	107.87	C
ATOM	8252	CG	GLU	1061	-4.446	117.247	45.997	1.00	107.87	C
ATOM	8253	CD	GLU	1061	-4.851	118.613	46.532	1.00	107.87	C
ATOM	8254	OE1	GLU	1061	-5.485	119.386	45.766	1.00	107.87	O
ATOM	8255	OE2	GLU	1061	-4.528	118.903	47.714	1.00	107.87	O
ATOM	8256	C	GLU	1061	-1.832	117.592	44.548	1.00	107.87	C
ATOM	8257	O	GLU	1061	-1.434	117.655	45.709	1.00	107.87	O
ATOM	8258	N	ALA	1062	-1.210	116.866	43.614	1.00	47.30	N
ATOM	8259	CA	ALA	1062	-0.014	116.118	43.832	1.00	47.30	C
ATOM	8260	CB	ALA	1062	0.466	115.370	42.577	1.00	47.30	C
ATOM	8261	C	ALA	1062	1.047	117.094	44.212	1.00	47.30	C
ATOM	8262	O	ALA	1062	1.836	116.838	45.118	1.00	47.30	O
ATOM	8263	N	ASN	1063	1.042	118.270	43.555	1.00	82.79	N
ATOM	8264	CA	ASN	1063	2.024	119.292	43.786	1.00	82.79	C
ATOM	8265	CB	ASN	1063	2.304	119.534	45.281	1.00	82.79	C
ATOM	8266	CG	ASN	1063	1.037	120.068	45.931	1.00	82.79	C
ATOM	8267	OD1	ASN	1063	0.598	121.182	45.651	1.00	82.79	O
ATOM	8268	ND2	ASN	1063	0.425	119.250	46.827	1.00	82.79	N
ATOM	8269	C	ASN	1063	3.316	118.887	43.146	1.00	82.79	C
ATOM	8270	O	ASN	1063	4.380	119.402	43.479	1.00	82.79	O
ATOM	8271	N	ILE	1064	3.244	117.896	42.246	1.00	136.05	N
ATOM	8272	CA	ILE	1064	4.298	117.456	41.378	1.00	136.05	C
ATOM	8273	CB	ILE	1064	4.051	116.105	40.775	1.00	136.05	C
ATOM	8274	CG1	ILE	1064	5.303	115.645	40.014	1.00	136.05	C
ATOM	8275	CG2	ILE	1064	2.781	116.179	39.915	1.00	136.05	C
ATOM	8276	CD1	ILE	1064	6.519	115.455	40.918	1.00	136.05	C
ATOM	8277	C	ILE	1064	4.399	118.465	40.283	1.00	136.05	C
ATOM	8278	O	ILE	1064	5.406	118.580	39.586	1.00	136.05	O
ATOM	8279	N	HIS	1065	3.289	119.197	40.094	1.00	87.24	N
ATOM	8280	CA	HIS	1065	3.075	120.114	39.017	1.00	87.24	C
ATOM	8281	ND1	HIS	1065	1.808	122.393	37.110	1.00	87.24	N

ATOM	8282	CG	HIS	1065	1.210	121.422	37.881	1.00	87.24	C
ATOM	8283	CB	HIS	1065	1.756	120.892	39.175	1.00	87.24	C
ATOM	8284	NE2	HIS	1065	-0.060	121.804	36.054	1.00	87.24	N
ATOM	8285	CD2	HIS	1065	0.071	121.075	37.222	1.00	87.24	C
ATOM	8286	CE1	HIS	1065	1.007	122.582	36.030	1.00	87.24	C
ATOM	8287	C	HIS	1065	4.201	121.102	38.988	1.00	87.24	C
ATOM	8288	O	HIS	1065	4.516	121.637	37.927	1.00	87.24	O
ATOM	8289	N	ALA	1066	4.845	121.372	40.142	1.00	43.98	N
ATOM	8290	CA	ALA	1066	5.912	122.335	40.172	1.00	43.98	C
ATOM	8291	CB	ALA	1066	6.610	122.414	41.541	1.00	43.98	C
ATOM	8292	C	ALA	1066	6.939	121.913	39.163	1.00	43.98	C
ATOM	8293	O	ALA	1066	7.522	122.753	38.482	1.00	43.98	O
ATOM	8294	N	PHE	1067	7.213	120.598	39.076	1.00	73.08	N
ATOM	8295	CA	PHE	1067	8.086	120.027	38.090	1.00	73.08	C
ATOM	8296	CB	PHE	1067	8.490	118.582	38.423	1.00	73.08	C
ATOM	8297	CG	PHE	1067	9.476	118.678	39.533	1.00	73.08	C
ATOM	8298	CD1	PHE	1067	9.070	118.968	40.814	1.00	73.08	C
ATOM	8299	CD2	PHE	1067	10.814	118.470	39.286	1.00	73.08	C
ATOM	8300	CE1	PHE	1067	9.991	119.058	41.832	1.00	73.08	C
ATOM	8301	CE2	PHE	1067	11.739	118.557	40.299	1.00	73.08	C
ATOM	8302	CZ	PHE	1067	11.326	118.854	41.575	1.00	73.08	C
ATOM	8303	C	PHE	1067	7.400	120.042	36.758	1.00	73.08	C
ATOM	8304	O	PHE	1067	8.032	120.219	35.719	1.00	73.08	O
ATOM	8305	N	ILE	1068	6.073	119.831	36.762	1.00	121.90	N
ATOM	8306	CA	ILE	1068	5.289	119.711	35.568	1.00	121.90	C
ATOM	8307	CB	ILE	1068	3.853	119.413	35.862	1.00	121.90	C
ATOM	8308	CG1	ILE	1068	3.738	118.116	36.679	1.00	121.90	C
ATOM	8309	CG2	ILE	1068	3.097	119.398	34.527	1.00	121.90	C
ATOM	8310	CD1	ILE	1068	4.462	116.929	36.051	1.00	121.90	C
ATOM	8311	C	ILE	1068	5.302	120.980	34.779	1.00	121.90	C
ATOM	8312	O	ILE	1068	5.426	120.947	33.557	1.00	121.90	O
ATOM	8313	N	GLU	1069	5.156	122.142	35.439	1.00	60.52	N
ATOM	8314	CA	GLU	1069	5.056	123.338	34.658	1.00	60.52	C
ATOM	8315	CB	GLU	1069	4.839	124.595	35.520	1.00	60.52	C
ATOM	8316	CG	GLU	1069	3.491	124.615	36.245	1.00	60.52	C
ATOM	8317	CD	GLU	1069	3.388	125.917	37.029	1.00	60.52	C
ATOM	8318	OE1	GLU	1069	4.362	126.715	36.977	1.00	60.52	O
ATOM	8319	OE2	GLU	1069	2.335	126.135	37.686	1.00	60.52	O
ATOM	8320	C	GLU	1069	6.306	123.565	33.855	1.00	60.52	C
ATOM	8321	O	GLU	1069	6.242	123.703	32.633	1.00	60.52	O
ATOM	8322	N	SER	1070	7.473	123.642	34.528	1.00	130.20	N
ATOM	8323	CA	SER	1070	8.722	123.930	33.875	1.00	130.20	C
ATOM	8324	CB	SER	1070	9.778	124.458	34.857	1.00	130.20	C
ATOM	8325	OG	SER	1070	10.987	124.727	34.165	1.00	130.20	O
ATOM	8326	C	SER	1070	9.332	122.770	33.152	1.00	130.20	C
ATOM	8327	O	SER	1070	9.092	122.592	31.957	1.00	130.20	O
ATOM	8328	N	LEU	1071	10.052	121.925	33.943	1.00	150.50	N
ATOM	8329	CA	LEU	1071	10.942	120.847	33.566	1.00	150.50	C
ATOM	8330	CB	LEU	1071	10.843	119.609	34.477	1.00	150.50	C
ATOM	8331	CG	LEU	1071	11.345	119.853	35.914	1.00	150.50	C
ATOM	8332	CD1	LEU	1071	12.856	120.134	35.944	1.00	150.50	C
ATOM	8333	CD2	LEU	1071	10.524	120.945	36.617	1.00	150.50	C
ATOM	8334	C	LEU	1071	10.684	120.425	32.160	1.00	150.50	C
ATOM	8335	O	LEU	1071	9.559	120.106	31.780	1.00	150.50	O
ATOM	8336	N	PRO	1072	11.752	120.410	31.406	1.00	208.85	N
ATOM	8337	CA	PRO	1072	11.709	120.322	29.972	1.00	208.85	C
ATOM	8338	CD	PRO	1072	13.065	120.100	31.944	1.00	208.85	C
ATOM	8339	CB	PRO	1072	13.114	119.908	29.531	1.00	208.85	C
ATOM	8340	CG	PRO	1072	14.011	120.235	30.739	1.00	208.85	C
ATOM	8341	C	PRO	1072	10.666	119.444	29.367	1.00	208.85	C
ATOM	8342	O	PRO	1072	9.645	119.946	28.923	1.00	208.85	O
ATOM	8343	N	ASN	1073	10.798	118.129	29.412	1.00	201.60	N
ATOM	8344	CA	ASN	1073	9.824	117.361	28.692	1.00	201.60	C
ATOM	8345	CB	ASN	1073	10.134	115.856	28.657	1.00	201.60	C
ATOM	8346	CG	ASN	1073	11.374	115.657	27.797	1.00	201.60	C
ATOM	8347	OD1	ASN	1073	12.358	115.057	28.228	1.00	201.60	O
ATOM	8348	ND2	ASN	1073	11.325	116.176	26.541	1.00	201.60	N
ATOM	8349	C	ASN	1073	8.466	117.558	29.306	1.00	201.60	C
ATOM	8350	O	ASN	1073	7.449	117.204	28.710	1.00	201.60	O
ATOM	8351	N	LYS	1074	8.419	118.104	30.538	1.00	130.35	N
ATOM	8352	CA	LYS	1074	7.139	118.327	31.142	1.00	130.35	C
ATOM	8353	CB	LYS	1074	6.124	119.057	30.242	1.00	130.35	C
ATOM	8354	CG	LYS	1074	6.465	120.525	29.984	1.00	130.35	C
ATOM	8355	CD	LYS	1074	5.669	121.135	28.829	1.00	130.35	C

ATOM	8356	CE	LYS	1074	5.999	122.604	28.565	1.00130.35	C
ATOM	8357	NZ	LYS	1074	7.340	122.723	27.951	1.00130.35	N
ATOM	8358	C	LYS	1074	6.605	116.969	31.445	1.00130.35	C
ATOM	8359	O	LYS	1074	7.364	116.056	31.767	1.00130.35	O
ATOM	8360	N	TYR	1075	5.279	116.794	31.306	1.00153.97	N
ATOM	8361	CA	TYR	1075	4.662	115.532	31.607	1.00153.97	C
ATOM	8362	CB	TYR	1075	3.155	115.443	31.281	1.00153.97	C
ATOM	8363	CG	TYR	1075	2.325	116.226	32.245	1.00153.97	C
ATOM	8364	CD1	TYR	1075	2.052	115.716	33.494	1.00153.97	C
ATOM	8365	CD2	TYR	1075	1.816	117.461	31.911	1.00153.97	C
ATOM	8366	CE1	TYR	1075	1.282	116.417	34.392	1.00153.97	C
ATOM	8367	CE2	TYR	1075	1.044	118.167	32.803	1.00153.97	C
ATOM	8368	CZ	TYR	1075	0.774	117.645	34.046	1.00153.97	C
ATOM	8369	OH	TYR	1075	-0.018	118.368	34.963	1.00153.97	O
ATOM	8370	C	TYR	1075	5.313	114.476	30.771	1.00153.97	C
ATOM	8371	O	TYR	1075	5.461	113.334	31.207	1.00153.97	O
ATOM	8372	N	SER	1076	5.698	114.837	29.534	1.00 83.29	N
ATOM	8373	CA	SER	1076	6.270	113.915	28.593	1.00 83.29	C
ATOM	8374	CB	SER	1076	6.617	114.583	27.252	1.00 83.29	C
ATOM	8375	OG	SER	1076	7.179	113.629	26.363	1.00 83.29	O
ATOM	8376	C	SER	1076	7.537	113.335	29.140	1.00 83.29	C
ATOM	8377	O	SER	1076	7.936	112.245	28.730	1.00 83.29	O
ATOM	8378	N	THR	1077	8.196	114.041	30.078	1.00 67.59	N
ATOM	8379	CA	THR	1077	9.444	113.565	30.612	1.00 67.59	C
ATOM	8380	CB	THR	1077	9.932	114.374	31.784	1.00 67.59	C
ATOM	8381	OG1	THR	1077	10.058	115.744	31.433	1.00 67.59	O
ATOM	8382	CG2	THR	1077	11.296	113.821	32.230	1.00 67.59	C
ATOM	8383	C	THR	1077	9.272	112.172	31.121	1.00 67.59	C
ATOM	8384	O	THR	1077	8.505	111.890	32.040	1.00 67.59	O
ATOM	8385	N	LYS	1078	10.027	111.248	30.519	1.00 94.54	N
ATOM	8386	CA	LYS	1078	9.981	109.882	30.941	1.00 94.54	C
ATOM	8387	CB	LYS	1078	10.833	108.962	30.048	1.00 94.54	C
ATOM	8388	CG	LYS	1078	10.866	107.492	30.472	1.00 94.54	C
ATOM	8389	CD	LYS	1078	11.513	106.587	29.420	1.00 94.54	C
ATOM	8390	CE	LYS	1078	11.888	105.197	29.938	1.00 94.54	C
ATOM	8391	NZ	LYS	1078	12.999	105.308	30.910	1.00 94.54	N
ATOM	8392	C	LYS	1078	10.580	109.874	32.303	1.00 94.54	C
ATOM	8393	O	LYS	1078	11.253	110.814	32.714	1.00 94.54	O
ATOM	8394	N	VAL	1079	10.374	108.781	33.045	1.00 69.11	N
ATOM	8395	CA	VAL	1079	10.933	108.637	34.356	1.00 69.11	C
ATOM	8396	CB	VAL	1079	10.682	107.286	34.957	1.00 69.11	C
ATOM	8397	CG1	VAL	1079	9.166	107.105	35.133	1.00 69.11	C
ATOM	8398	CG2	VAL	1079	11.339	106.219	34.064	1.00 69.11	C
ATOM	8399	C	VAL	1079	12.409	108.792	34.165	1.00 69.11	C
ATOM	8400	O	VAL	1079	13.123	109.192	35.082	1.00 69.11	O
ATOM	8401	N	GLY	1080	12.906	108.456	32.957	1.00 68.50	N
ATOM	8402	CA	GLY	1080	14.287	108.662	32.644	1.00 68.50	C
ATOM	8403	C	GLY	1080	15.163	107.719	33.403	1.00 68.50	C
ATOM	8404	O	GLY	1080	15.550	107.990	34.537	1.00 68.50	O
ATOM	8405	N	ASP	1081	15.519	106.589	32.759	1.00106.02	N
ATOM	8406	CA	ASP	1081	16.388	105.593	33.326	1.00106.02	C
ATOM	8407	CB	ASP	1081	17.728	106.167	33.824	1.00106.02	C
ATOM	8408	CG	ASP	1081	18.582	106.568	32.631	1.00106.02	C
ATOM	8409	OD1	ASP	1081	18.276	106.118	31.495	1.00106.02	O
ATOM	8410	OD2	ASP	1081	19.560	107.332	32.850	1.00106.02	O
ATOM	8411	C	ASP	1081	15.753	104.928	34.497	1.00106.02	C
ATOM	8412	O	ASP	1081	16.422	104.589	35.472	1.00106.02	O
ATOM	8413	N	LYS	1082	14.440	104.682	34.408	1.00134.66	N
ATOM	8414	CA	LYS	1082	13.748	103.955	35.429	1.00134.66	C
ATOM	8415	CB	LYS	1082	14.461	102.649	35.814	1.00134.66	C
ATOM	8416	CG	LYS	1082	14.536	101.658	34.655	1.00134.66	C
ATOM	8417	CD	LYS	1082	15.399	102.175	33.505	1.00134.66	C
ATOM	8418	CE	LYS	1082	15.317	101.336	32.234	1.00134.66	C
ATOM	8419	NZ	LYS	1082	15.784	102.142	31.087	1.00134.66	N
ATOM	8420	C	LYS	1082	13.606	104.776	36.671	1.00134.66	C
ATOM	8421	O	LYS	1082	13.149	104.252	37.687	1.00134.66	O
ATOM	8422	N	GLY	1083	13.917	106.090	36.616	1.00 70.40	N
ATOM	8423	CA	GLY	1083	13.623	106.888	37.771	1.00 70.40	C
ATOM	8424	C	GLY	1083	14.717	107.816	38.208	1.00 70.40	C
ATOM	8425	O	GLY	1083	14.452	109.013	38.254	1.00 70.40	O
ATOM	8426	N	THR	1084	15.957	107.347	38.479	1.00150.95	N
ATOM	8427	CA	THR	1084	16.955	108.198	39.083	1.00150.95	C
ATOM	8428	CB	THR	1084	18.284	107.514	39.275	1.00150.95	C
ATOM	8429	OG1	THR	1084	19.209	108.406	39.876	1.00150.95	O

ATOM	8430	CG2	THR	1084	18.816	106.998	37.927	1.00150.95	
ATOM	8431	C	THR	1084	17.156	109.469	38.314	1.00150.95	
ATOM	8432	O	THR	1084	17.912	109.512	37.346	1.00150.95	
ATOM	8433	N	GLN	1085	16.485	110.550	38.774	1.00227.62	
ATOM	8434	CA	GLN	1085	16.553	111.844	38.156	1.00227.62	
ATOM	8435	CB	GLN	1085	15.822	111.921	36.802	1.00227.62	
ATOM	8436	CG	GLN	1085	16.425	111.088	35.678	1.00227.62	
ATOM	8437	CD	GLN	1085	15.577	111.295	34.437	1.00227.62	
ATOM	8438	OE1	GLN	1085	15.888	110.769	33.371	1.00227.62	
ATOM	8439	NE2	GLN	1085	14.479	112.087	34.575	1.00227.62	
ATOM	8440	C	GLN	1085	15.775	112.788	39.014	1.00227.62	
ATOM	8441	O	GLN	1085	15.761	113.990	38.751	1.00227.62	
ATOM	8442	N	LEU	1086	15.065	112.272	40.041	1.0083.64	
ATOM	8443	CA	LEU	1086	14.283	113.155	40.866	1.0083.64	
ATOM	8444	CB	LEU	1086	12.820	113.314	40.417	1.0083.64	
ATOM	8445	CG	LEU	1086	12.643	114.186	39.163	1.0083.64	
ATOM	8446	CD1	LEU	1086	11.162	114.308	38.772	1.0083.64	
ATOM	8447	CD2	LEU	1086	13.310	115.561	39.354	1.0083.64	
ATOM	8448	C	LEU	1086	14.255	112.655	42.275	1.0083.64	
ATOM	8449	O	LEU	1086	14.258	111.452	42.537	1.0083.64	
ATOM	8450	N	SER	1087	14.185	113.610	43.222	1.0037.06	
ATOM	8451	CA	SER	1087	14.179	113.313	44.624	1.0037.06	
ATOM	8452	CB	SER	1087	14.217	114.568	45.512	1.0037.06	
ATOM	8453	OG	SER	1087	14.204	114.201	46.883	1.0037.06	
ATOM	8454	C	SER	1087	12.923	112.572	44.951	1.0037.06	
ATOM	8455	O	SER	1087	11.929	112.623	44.228	1.0037.06	
ATOM	8456	N	GLY	1088	12.960	111.854	46.084	1.0034.24	
ATOM	8457	CA	GLY	1088	11.857	111.052	46.523	1.0034.24	
ATOM	8458	C	GLY	1088	10.694	111.951	46.783	1.0034.24	
ATOM	8459	O	GLY	1088	9.544	111.537	46.636	1.0034.24	
ATOM	8460	N	GLY	1089	10.959	113.199	47.218	1.0035.08	
ATOM	8461	CA	GLY	1089	9.863	114.058	47.550	1.0035.08	
ATOM	8462	C	GLY	1089	8.993	114.226	46.348	1.0035.08	
ATOM	8463	O	GLY	1089	7.778	114.058	46.427	1.0035.08	
ATOM	8464	N	GLN	1090	9.600	114.527	45.188	1.0084.74	
ATOM	8465	CA	GLN	1090	8.836	114.720	43.991	1.0084.74	
ATOM	8466	CB	GLN	1090	9.719	115.093	42.787	1.0084.74	
ATOM	8467	CG	GLN	1090	10.515	116.388	42.973	1.0084.74	
ATOM	8468	CD	GLN	1090	11.812	116.087	43.722	1.0084.74	
ATOM	8469	OE1	GLN	1090	11.821	115.895	44.937	1.0084.74	
ATOM	8470	NE2	GLN	1090	12.946	116.056	42.972	1.0084.74	
ATOM	8471	C	GLN	1090	8.174	113.419	43.673	1.0084.74	
ATOM	8472	O	GLN	1090	7.008	113.373	43.279	1.0084.74	
ATOM	8473	N	LYS	1091	8.904	112.307	43.876	1.0084.12	
ATOM	8474	CA							

ATOM	8504	CB	ILE	1094	4.757	110.920	40.928	1.00	62.66	C
ATOM	8505	CG1	ILE	1094	5.743	111.990	40.438	1.00	62.66	C
ATOM	8506	CG2	ILE	1094	4.067	110.171	39.775	1.00	62.66	C
ATOM	8507	CD1	ILE	1094	7.018	111.401	39.836	1.00	62.66	C
ATOM	8508	C	ILE	1094	2.849	110.408	42.298	1.00	62.66	C
ATOM	8509	O	ILE	1094	1.714	110.223	41.856	1.00	62.66	O
ATOM	8510	N	ALA	1095	3.371	109.648	43.286	1.00	46.55	N
ATOM	8511	CA	ALA	1095	2.691	108.472	43.756	1.00	46.55	C
ATOM	8512	CB	ALA	1095	3.406	107.796	44.937	1.00	46.55	C
ATOM	8513	C	ALA	1095	1.343	108.896	44.230	1.00	46.55	C
ATOM	8514	O	ALA	1095	0.338	108.269	43.898	1.00	46.55	O
ATOM	8515	N	ILE	1096	1.292	110.011	44.980	1.00	106.15	N
ATOM	8516	CA	ILE	1096	0.048	110.532	45.466	1.00	106.15	C
ATOM	8517	CB	ILE	1096	0.179	111.756	46.326	1.00	106.15	C
ATOM	8518	CG1	ILE	1096	0.590	111.373	47.760	1.00	106.15	C
ATOM	8519	CG2	ILE	1096	-1.157	112.518	46.253	1.00	106.15	C
ATOM	8520	CD1	ILE	1096	1.928	110.651	47.879	1.00	106.15	C
ATOM	8521	C	ILE	1096	-0.808	110.879	44.305	1.00	106.15	C
ATOM	8522	O	ILE	1096	-2.027	110.705	44.368	1.00	106.15	O
ATOM	8523	N	ALA	1097	-0.192	111.400	43.225	1.00	80.41	N
ATOM	8524	CA	ALA	1097	-0.985	111.759	42.092	1.00	80.41	C
ATOM	8525	CB	ALA	1097	-0.142	112.246	40.903	1.00	80.41	C
ATOM	8526	C	ALA	1097	-1.683	110.523	41.672	1.00	80.41	C
ATOM	8527	O	ALA	1097	-2.900	110.479	41.799	1.00	80.41	O
ATOM	8528	N	ARG	1098	-0.910	109.440	41.437	1.00	125.22	N
ATOM	8529	CA	ARG	1098	-1.375	108.173	40.940	1.00	125.22	C
ATOM	8530	CB	ARG	1098	-0.335	107.081	41.258	1.00	125.22	C
ATOM	8531	CG	ARG	1098	-0.833	105.639	41.140	1.00	125.22	C
ATOM	8532	CD	ARG	1098	-0.110	104.669	42.091	1.00	125.22	C
ATOM	8533	NE	ARG	1098	1.354	104.735	41.809	1.00	125.22	N
ATOM	8534	CZ	ARG	1098	2.214	103.808	42.324	1.00	125.22	C
ATOM	8535	NH1	ARG	1098	1.756	102.850	43.182	1.00	125.22	N
ATOM	8536	NH2	ARG	1098	3.534	103.835	41.972	1.00	125.22	N
ATOM	8537	C	ARG	1098	-2.581	107.828	41.744	1.00	125.22	C
ATOM	8538	O	ARG	1098	-3.647	107.567	41.188	1.00	125.22	O
ATOM	8539	N	ALA	1099	-2.460	107.930	43.081	1.00	79.11	N
ATOM	8540	CA	ALA	1099	-3.569	107.607	43.931	1.00	79.11	C
ATOM	8541	CB	ALA	1099	-3.192	107.646	45.421	1.00	79.11	C
ATOM	8542	C	ALA	1099	-4.731	108.542	43.752	1.00	79.11	C
ATOM	8543	O	ALA	1099	-5.819	108.130	43.367	1.00	79.11	O
ATOM	8544	N	LEU	1100	-4.512	109.852	43.903	1.00	106.67	N
ATOM	8545	CA	LEU	1100	-5.585	110.805	43.835	1.00	106.67	C
ATOM	8546	CB	LEU	1100	-5.074	112.236	44.056	1.00	106.67	C
ATOM	8547	CG	LEU	1100	-6.154	113.313	43.902	1.00	106.67	C
ATOM	8548	CD1	LEU	1100	-7.308	113.080	44.884	1.00	106.67	C
ATOM	8549	CD2	LEU	1100	-5.548	114.720	44.023	1.00	106.67	C
ATOM	8550	C	LEU	1100	-6.200	110.731	42.465	1.00	106.67	C
ATOM	8551	O	LEU	1100	-7.290	111.245	42.222	1.00	106.67	O
ATOM	8552	N	VAL	1101	-5.446	110.202	41.494	1.00	65.22	N
ATOM	8553	CA	VAL	1101	-5.908	110.036	40.146	1.00	65.22	C
ATOM	8554	CB	VAL	1101	-4.857	109.527	39.204	1.00	65.22	C
ATOM	8555	CG1	VAL	1101	-5.513	109.304	37.831	1.00	65.22	C
ATOM	8556	CG2	VAL	1101	-3.681	110.510	39.172	1.00	65.22	C
ATOM	8557	C	VAL	1101	-6.975	108.993	40.140	1.00	65.22	C
ATOM	8558	O	VAL	1101	-7.969	109.100	39.425	1.00	65.22	O
ATOM	8559	N	ARG	1102	-6.754	107.940	40.945	1.00	103.08	N
ATOM	8560	CA	ARG	1102	-7.602	106.795	41.096	1.00	103.08	C
ATOM	8561	CB	ARG	1102	-6.958	105.699	41.966	1.00	103.08	C
ATOM	8562	CG	ARG	1102	-7.492	104.292	41.680	1.00	103.08	C
ATOM	8563	CD	ARG	1102	-6.873	103.207	42.565	1.00	103.08	C
ATOM	8564	NE	ARG	1102	-5.390	103.371	42.537	1.00	103.08	N
ATOM	8565	CZ	ARG	1102	-4.596	102.637	41.702	1.00	103.08	C
ATOM	8566	NH1	ARG	1102	-5.136	101.775	40.792	1.00	103.08	N
ATOM	8567	NH2	ARG	1102	-3.240	102.754	41.795	1.00	103.08	N
ATOM	8568	C	ARG	1102	-8.872	107.250	41.749	1.00	103.08	C
ATOM	8569	O	ARG	1102	-9.914	106.608	41.627	1.00	103.08	O
ATOM	8570	N	GLN	1103	-8.813	108.387	42.467	1.00	75.81	N
ATOM	8571	CA	GLN	1103	-9.935	108.864	43.229	1.00	75.81	C
ATOM	8572	CB	GLN	1103	-11.091	109.388	42.358	1.00	75.81	C
ATOM	8573	CG	GLN	1103	-10.725	110.632	41.545	1.00	75.81	C
ATOM	8574	CD	GLN	1103	-10.536	111.799	42.507	1.00	75.81	C
ATOM	8575	OE1	GLN	1103	-10.878	111.713	43.686	1.00	75.81	O
ATOM	8576	NE2	GLN	1103	-9.975	112.926	41.990	1.00	75.81	N
ATOM	8577	C	GLN	1103	-10.465	107.769	44.123	1.00	75.81	C

ATOM	8578	O	GLN	1103	-11.568	107.273	43.896	1.00	75.81	O
ATOM	8579	N	PRO	1104	-9.712	107.362	45.132	1.00	130.01	N
ATOM	8580	CA	PRO	1104	-10.159	106.336	46.037	1.00	130.01	C
ATOM	8581	CD	PRO	1104	-8.253	107.412	45.095	1.00	130.01	C
ATOM	8582	CB	PRO	1104	-8.916	105.804	46.750	1.00	130.01	C
ATOM	8583	CG	PRO	1104	-7.762	106.146	45.803	1.00	130.01	C
ATOM	8584	C	PRO	1104	-11.124	106.909	47.023	1.00	130.01	C
ATOM	8585	O	PRO	1104	-11.585	108.028	46.821	1.00	130.01	O
ATOM	8586	N	HIS	1105	-11.653	106.057	47.918	1.00	129.97	N
ATOM	8587	CA	HIS	1105	-12.384	106.442	49.091	1.00	129.97	C
ATOM	8588	ND1	HIS	1105	-14.413	105.629	46.790	1.00	129.97	N
ATOM	8589	CG	HIS	1105	-14.609	106.036	48.089	1.00	129.97	C
ATOM	8590	CB	HIS	1105	-13.698	105.665	49.221	1.00	129.97	C
ATOM	8591	NE2	HIS	1105	-16.231	106.906	46.783	1.00	129.97	N
ATOM	8592	CD2	HIS	1105	-15.724	106.817	48.068	1.00	129.97	C
ATOM	8593	CE1	HIS	1105	-15.410	106.177	46.050	1.00	129.97	C
ATOM	8594	C	HIS	1105	-11.568	106.316	50.351	1.00	129.97	C
ATOM	8595	O	HIS	1105	-11.819	106.986	51.351	1.00	129.97	O
ATOM	8596	N	ILE	1106	-10.594	105.387	50.357	1.00	132.83	N
ATOM	8597	CA	ILE	1106	-9.837	105.088	51.542	1.00	132.83	C
ATOM	8598	CB	ILE	1106	-10.047	103.654	51.966	1.00	132.83	C
ATOM	8599	CG1	ILE	1106	-9.722	103.391	53.452	1.00	132.83	C
ATOM	8600	CG2	ILE	1106	-9.264	102.770	50.982	1.00	132.83	C
ATOM	8601	CD1	ILE	1106	-8.247	103.449	53.839	1.00	132.83	C
ATOM	8602	C	ILE	1106	-8.399	105.308	51.159	1.00	132.83	C
ATOM	8603	O	ILE	1106	-8.093	105.347	49.969	1.00	132.83	O
ATOM	8604	N	LEU	1107	-7.487	105.552	52.132	1.00	86.54	N
ATOM	8605	CA	LEU	1107	-6.101	105.752	51.778	1.00	86.54	C
ATOM	8606	CB	LEU	1107	-5.651	107.230	51.804	1.00	86.54	C
ATOM	8607	CG	LEU	1107	-6.359	108.165	50.800	1.00	86.54	C
ATOM	8608	CD1	LEU	1107	-5.757	109.578	50.844	1.00	86.54	C
ATOM	8609	CD2	LEU	1107	-6.383	107.576	49.380	1.00	86.54	C
ATOM	8610	C	LEU	1107	-5.204	105.032	52.750	1.00	86.54	C
ATOM	8611	O	LEU	1107	-5.463	104.984	53.948	1.00	86.54	O
ATOM	8612	N	LEU	1108	-4.107	104.441	52.246	1.00	79.10	N
ATOM	8613	CA	LEU	1108	-3.149	103.797	53.091	1.00	79.10	C
ATOM	8614	CB	LEU	1108	-2.843	102.360	52.644	1.00	79.10	C
ATOM	8615	CG	LEU	1108	-4.083	101.448	52.673	1.00	79.10	C
ATOM	8616	CD1	LEU	1108	-3.739	100.019	52.223	1.00	79.10	C
ATOM	8617	CD2	LEU	1108	-4.777	101.488	54.042	1.00	79.10	C
ATOM	8618	C	LEU	1108	-1.890	104.597	52.990	1.00	79.10	C
ATOM	8619	O	LEU	1108	-1.114	104.438	52.047	1.00	79.10	O
ATOM	8620	N	LEU	1109	-1.648	105.492	53.969	1.00	127.91	N
ATOM	8621	CA	LEU	1109	-0.439	106.256	53.908	1.00	127.91	C
ATOM	8622	CB	LEU	1109	-0.585	107.709	54.398	1.00	127.91	C
ATOM	8623	CG	LEU	1109	-1.775	108.475	53.780	1.00	127.91	C
ATOM	8624	CD1	LEU	1109	-1.828	108.326	52.251	1.00	127.91	C
ATOM	8625	CD2	LEU	1109	-3.095	108.144	54.490	1.00	127.91	C
ATOM	8626	C	LEU	1109	0.513	105.567	54.834	1.00	127.91	C
ATOM	8627	O	LEU	1109	0.531	105.826	56.037	1.00	127.91	O
ATOM	8628	N	ASP	1110	1.357	104.679	54.277	1.00	73.60	N
ATOM	8629	CA	ASP	1110	2.236	103.882	55.083	1.00	73.60	C
ATOM	8630	CB	ASP	1110	2.562	102.522	54.437	1.00	73.60	C
ATOM	8631	CG	ASP	1110	3.284	101.612	55.429	1.00	73.60	C
ATOM	8632	OD1	ASP	1110	4.062	102.118	56.281	1.00	73.60	O
ATOM	8633	OD2	ASP	1110	3.058	100.376	55.339	1.00	73.60	O
ATOM	8634	C	ASP	1110	3.524	104.606	55.286	1.00	73.60	C
ATOM	8635	O	ASP	1110	4.470	104.400	54.524	1.00	73.60	O
ATOM	8636	N	GLU	1111	3.567	105.470	56.328	1.00	82.96	N
ATOM	8637	CA	GLU	1111	4.738	106.200	56.733	1.00	82.96	C
ATOM	8638	CB	GLU	1111	5.806	105.341	57.433	1.00	82.96	C
ATOM	8639	CG	GLU	1111	5.395	104.812	58.807	1.00	82.96	C
ATOM	8640	CD	GLU	1111	6.562	103.997	59.350	1.00	82.96	C
ATOM	8641	OE1	GLU	1111	7.130	103.184	58.572	1.00	82.96	O
ATOM	8642	OE2	GLU	1111	6.911	104.187	60.545	1.00	82.96	O
ATOM	8643	C	GLU	1111	5.374	106.760	55.515	1.00	82.96	C
ATOM	8644	O	GLU	1111	6.602	106.758	55.426	1.00	82.96	O
ATOM	8645	N	ALA	1112	4.549	107.314	54.597	1.00	76.64	N
ATOM	8646	CA	ALA	1112	5.033	107.659	53.293	1.00	76.64	C
ATOM	8647	CB	ALA	1112	3.984	108.434	52.481	1.00	76.64	C
ATOM	8648	C	ALA	1112	6.237	108.535	53.418	1.00	76.64	C
ATOM	8649	O	ALA	1112	7.326	108.109	53.041	1.00	76.64	O
ATOM	8650	N	THR	1113	6.131	109.697	54.085	1.00	84.67	N
ATOM	8651	CA	THR	1113	7.309	110.511	54.176	1.00	84.67	C

ATOM	8652	CB	THR	1113	6.998	111.984	54.206	1.00	84.67	C
ATOM	8653	OG1	THR	1113	6.179	112.305	55.321	1.00	84.67	O
ATOM	8654	CG2	THR	1113	6.262	112.346	52.904	1.00	84.67	C
ATOM	8655	C	THR	1113	8.016	110.127	55.442	1.00	84.67	C
ATOM	8656	O	THR	1113	7.781	110.682	56.515	1.00	84.67	O
ATOM	8657	N	SER	1114	8.809	109.043	55.359	1.00	90.71	N
ATOM	8658	CA	SER	1114	9.654	108.615	56.433	1.00	90.71	C
ATOM	8659	CB	SER	1114	9.732	107.089	56.563	1.00	90.71	C
ATOM	8660	OG	SER	1114	10.546	106.741	57.673	1.00	90.71	O
ATOM	8661	C	SER	1114	11.035	109.139	56.213	1.00	90.71	C
ATOM	8662	O	SER	1114	11.854	109.132	57.127	1.00	90.71	O
ATOM	8663	N	ALA	1115	11.365	109.520	54.965	1.00	64.79	N
ATOM	8664	CA	ALA	1115	12.662	110.071	54.697	1.00	64.79	C
ATOM	8665	CB	ALA	1115	13.625	109.073	54.033	1.00	64.79	C
ATOM	8666	C	ALA	1115	12.445	111.185	53.728	1.00	64.79	C
ATOM	8667	O	ALA	1115	12.005	110.956	52.601	1.00	64.79	O
ATOM	8668	N	LEU	1116	12.777	112.424	54.147	1.00	198.60	N
ATOM	8669	CA	LEU	1116	12.552	113.577	53.322	1.00	198.60	C
ATOM	8670	CB	LEU	1116	11.076	113.997	53.189	1.00	198.60	C
ATOM	8671	CG	LEU	1116	10.225	113.165	52.225	1.00	198.60	C
ATOM	8672	CD1	LEU	1116	8.786	113.688	52.189	1.00	198.60	C
ATOM	8673	CD2	LEU	1116	10.840	113.133	50.820	1.00	198.60	C
ATOM	8674	C	LEU	1116	13.222	114.768	53.932	1.00	198.60	C
ATOM	8675	O	LEU	1116	14.115	114.644	54.769	1.00	198.60	O
ATOM	8676	N	ASP	1117	12.788	115.963	53.464	1.00	173.03	N
ATOM	8677	CA	ASP	1117	13.280	117.253	53.873	1.00	173.03	C
ATOM	8678	CB	ASP	1117	14.030	117.980	52.752	1.00	173.03	C
ATOM	8679	CG	ASP	1117	15.347	117.263	52.543	1.00	173.03	C
ATOM	8680	OD1	ASP	1117	16.149	117.246	53.512	1.00	173.03	O
ATOM	8681	OD2	ASP	1117	15.575	116.734	51.422	1.00	173.03	O
ATOM	8682	C	ASP	1117	12.121	118.148	54.214	1.00	173.03	C
ATOM	8683	O	ASP	1117	10.962	117.753	54.122	1.00	173.03	O
ATOM	8684	N	THR	1118	12.431	119.412	54.582	1.00	184.49	N
ATOM	8685	CA	THR	1118	11.469	120.355	55.093	1.00	184.49	C
ATOM	8686	CB	THR	1118	12.101	121.660	55.479	1.00	184.49	C
ATOM	8687	OG1	THR	1118	11.108	122.546	55.973	1.00	184.49	O
ATOM	8688	CG2	THR	1118	12.819	122.269	54.262	1.00	184.49	C
ATOM	8689	C	THR	1118	10.314	120.670	54.177	1.00	184.49	C
ATOM	8690	O	THR	1118	9.166	120.453	54.556	1.00	184.49	O
ATOM	8691	N	GLU	1119	10.558	121.193	52.957	1.00	139.00	N
ATOM	8692	CA	GLU	1119	9.498	121.597	52.064	1.00	139.00	C
ATOM	8693	CB	GLU	1119	10.015	122.436	50.881	1.00	139.00	C
ATOM	8694	CG	GLU	1119	8.919	122.910	49.922	1.00	139.00	C
ATOM	8695	CD	GLU	1119	8.631	121.788	48.935	1.00	139.00	C
ATOM	8696	OE1	GLU	1119	9.447	120.829	48.878	1.00	139.00	O
ATOM	8697	OE2	GLU	1119	7.593	121.874	48.225	1.00	139.00	O
ATOM	8698	C	GLU	1119	8.814	120.391	51.522	1.00	139.00	C
ATOM	8699	O	GLU	1119	7.625	120.411	51.209	1.00	139.00	O
ATOM	8700	N	SER	1120	9.585	119.314	51.326	1.00	57.07	N
ATOM	8701	CA	SER	1120	9.024	118.114	50.794	1.00	57.07	C
ATOM	8702	CB	SER	1120	10.084	117.014	50.618	1.00	57.07	C
ATOM	8703	OG	SER	1120	11.135	117.477	49.783	1.00	57.07	O
ATOM	8704	C	SER	1120	8.055	117.610	51.797	1.00	57.07	C
ATOM	8705	O	SER	1120	6.877	117.405	51.509	1.00	57.07	O
ATOM	8706	N	GLU	1121	8.538	117.452	53.039	1.00	75.62	N
ATOM	8707	CA	GLU	1121	7.712	116.872	54.047	1.00	75.62	C
ATOM	8708	CB	GLU	1121	8.409	116.832	55.416	1.00	75.62	C
ATOM	8709	CG	GLU	1121	9.568	115.840	55.494	1.00	75.62	C
ATOM	8710	CD	GLU	1121	10.464	116.275	56.646	1.00	75.62	C
ATOM	8711	OE1	GLU	1121	10.819	117.483	56.685	1.00	75.62	O
ATOM	8712	OE2	GLU	1121	10.806	115.412	57.497	1.00	75.62	O
ATOM	8713	C	GLU	1121	6.497	117.719	54.204	1.00	75.62	C
ATOM	8714	O	GLU	1121	5.382	117.245	54.000	1.00	75.62	O
ATOM	8715	N	LYS	1122	6.683	119.024	54.474	1.00	164.92	N
ATOM	8716	CA	LYS	1122	5.547	119.840	54.773	1.00	164.92	C
ATOM	8717	CB	LYS	1122	5.915	121.256	55.274	1.00	164.92	C
ATOM	8718	CG	LYS	1122	6.502	122.233	54.248	1.00	164.92	C
ATOM	8719	CD	LYS	1122	5.467	122.812	53.281	1.00	164.92	C
ATOM	8720	CE	LYS	1122	4.079	122.979	53.901	1.00	164.92	C
ATOM	8721	NZ	LYS	1122	3.063	123.129	52.834	1.00	164.92	N
ATOM	8722	C	LYS	1122	4.614	119.933	53.606	1.00	164.92	C
ATOM	8723	O	LYS	1122	3.413	119.732	53.768	1.00	164.92	O
ATOM	8724	N	VAL	1123	5.126	120.168	52.384	1.00	97.18	N
ATOM	8725	CA	VAL	1123	4.231	120.382	51.282	1.00	97.18	C

ATOM	8726	CB	VAL	1123	4.926	120.679	49.981	1.00	97.18	C
ATOM	8727	CG1	VAL	1123	5.706	119.436	49.516	1.00	97.18	C
ATOM	8728	CG2	VAL	1123	3.863	121.149	48.973	1.00	97.18	C
ATOM	8729	C	VAL	1123	3.409	119.150	51.093	1.00	97.18	C
ATOM	8730	O	VAL	1123	2.216	119.226	50.806	1.00	97.18	O
ATOM	8731	N	VAL	1124	4.041	117.977	51.264	1.00	46.72	N
ATOM	8732	CA	VAL	1124	3.392	116.713	51.079	1.00	46.72	C
ATOM	8733	CB	VAL	1124	4.331	115.548	51.200	1.00	46.72	C
ATOM	8734	CG1	VAL	1124	3.505	114.251	51.173	1.00	46.72	C
ATOM	8735	CG2	VAL	1124	5.365	115.634	50.063	1.00	46.72	C
ATOM	8736	C	VAL	1124	2.316	116.539	52.099	1.00	46.72	C
ATOM	8737	O	VAL	1124	1.271	115.968	51.799	1.00	46.72	O
ATOM	8738	N	GLN	1125	2.544	117.010	53.337	1.00	124.82	N
ATOM	8739	CA	GLN	1125	1.566	116.875	54.376	1.00	124.82	C
ATOM	8740	CB	GLN	1125	2.035	117.437	55.727	1.00	124.82	C
ATOM	8741	CG	GLN	1125	1.071	117.116	56.870	1.00	124.82	C
ATOM	8742	CD	GLN	1125	1.175	115.622	57.155	1.00	124.82	C
ATOM	8743	OE1	GLN	1125	1.163	114.800	56.241	1.00	124.82	O
ATOM	8744	NE2	GLN	1125	1.293	115.261	58.462	1.00	124.82	N
ATOM	8745	C	GLN	1125	0.378	117.656	53.937	1.00	124.82	C
ATOM	8746	O	GLN	1125	-0.757	117.316	54.268	1.00	124.82	O
ATOM	8747	N	GLU	1126	0.635	118.766	53.220	1.00	74.02	N
ATOM	8748	CA	GLU	1126	-0.403	119.592	52.686	1.00	74.02	C
ATOM	8749	CB	GLU	1126	0.149	120.888	52.058	1.00	74.02	C
ATOM	8750	CG	GLU	1126	-0.923	121.859	51.552	1.00	74.02	C
ATOM	8751	CD	GLU	1126	-1.053	121.691	50.044	1.00	74.02	C
ATOM	8752	OE1	GLU	1126	-0.021	121.880	49.345	1.00	74.02	O
ATOM	8753	OE2	GLU	1126	-2.177	121.376	49.569	1.00	74.02	O
ATOM	8754	C	GLU	1126	-1.126	118.807	51.636	1.00	74.02	C
ATOM	8755	O	GLU	1126	-2.352	118.851	51.558	1.00	74.02	O
ATOM	8756	N	ALA	1127	-0.381	118.072	50.784	1.00	57.41	N
ATOM	8757	CA	ALA	1127	-1.038	117.313	49.760	1.00	57.41	C
ATOM	8758	CB	ALA	1127	-0.048	116.619	48.810	1.00	57.41	C
ATOM	8759	C	ALA	1127	-1.866	116.250	50.406	1.00	57.41	C
ATOM	8760	O	ALA	1127	-3.082	116.214	50.245	1.00	57.41	O
ATOM	8761	N	LEU	1128	-1.237	115.445	51.278	1.00	90.30	N
ATOM	8762	CA	LEU	1128	-1.894	114.360	51.944	1.00	90.30	C
ATOM	8763	CB	LEU	1128	-1.029	113.726	53.038	1.00	90.30	C
ATOM	8764	CG	LEU	1128	-1.767	112.614	53.799	1.00	90.30	C
ATOM	8765	CD1	LEU	1128	-1.863	111.331	52.966	1.00	90.30	C
ATOM	8766	CD2	LEU	1128	-1.187	112.414	55.202	1.00	90.30	C
ATOM	8767	C	LEU	1128	-3.045	114.962	52.673	1.00	90.30	C
ATOM	8768	O	LEU	1128	-4.087	114.329	52.842	1.00	90.30	O
ATOM	8769	N	ASP	1129	-2.857	116.203	53.156	1.00	82.97	N
ATOM	8770	CA	ASP	1129	-3.888	116.844	53.914	1.00	82.97	C
ATOM	8771	CB	ASP	1129	-3.464	118.216	54.456	1.00	82.97	C
ATOM	8772	CG	ASP	1129	-4.537	118.652	55.440	1.00	82.97	C
ATOM	8773	OD1	ASP	1129	-5.663	118.987	54.983	1.00	82.97	O
ATOM	8774	OD2	ASP	1129	-4.246	118.652	56.665	1.00	82.97	O
ATOM	8775	C	ASP	1129	-5.133	117.039	53.096	1.00	82.97	C
ATOM	8776	O	ASP	1129	-6.173	116.460	53.398	1.00	82.97	O
ATOM	8777	N	LYS	1130	-5.043	117.806	51.994	1.00	139.57	N
ATOM	8778	CA	LYS	1130	-6.182	118.112	51.171	1.00	139.57	C
ATOM	8779	CB	LYS	1130	-5.877	119.157	50.088	1.00	139.57	C
ATOM	8780	CG	LYS	1130	-5.553	120.525	50.691	1.00	139.57	C
ATOM	8781	CD	LYS	1130	-6.689	121.086	51.549	1.00	139.57	C
ATOM	8782	CE	LYS	1130	-6.281	122.288	52.403	1.00	139.57	C
ATOM	8783	NZ	LYS	1130	-5.461	121.834	53.547	1.00	139.57	N
ATOM	8784	C	LYS	1130	-6.618	116.846	50.524	1.00	139.57	C
ATOM	8785	O	LYS	1130	-7.761	116.697	50.096	1.00	139.57	O
ATOM	8786	N	ALA	1131	-5.667	115.914	50.397	1.00	45.47	N
ATOM	8787	CA	ALA	1131	-5.894	114.633	49.812	1.00	45.47	C
ATOM	8788	CB	ALA	1131	-4.623	113.768	49.771	1.00	45.47	C
ATOM	8789	C	ALA	1131	-6.904	113.920	50.656	1.00	45.47	C
ATOM	8790	O	ALA	1131	-7.721	113.162	50.137	1.00	45.47	O
ATOM	8791	N	ARG	1132	-6.836	114.136	51.986	1.00	247.21	N
ATOM	8792	CA	ARG	1132	-7.677	113.530	52.985	1.00	247.21	C
ATOM	8793	CB	ARG	1132	-7.016	113.527	54.369	1.00	247.21	C
ATOM	8794	CG	ARG	1132	-5.712	112.746	54.451	1.00	247.21	C
ATOM	8795	CD	ARG	1132	-4.727	113.356	55.450	1.00	247.21	C
ATOM	8796	NE	ARG	1132	-5.506	113.894	56.602	1.00	247.21	N
ATOM	8797	CZ	ARG	1132	-4.901	114.734	57.492	1.00	247.21	C
ATOM	8798	NH1	ARG	1132	-3.589	115.072	57.322	1.00	247.21	N
ATOM	8799	NH2	ARG	1132	-5.602	115.235	58.550	1.00	247.21	N

ATOM	8800	C	ARG	1132	-8.900	114.369	53.181	1.00247.21
ATOM	8801	O	ARG	1132	-9.146	115.333	52.461	1.00247.21
ATOM	8802	N	GLU	1133	-9.746	113.923	54.137	1.00123.08
ATOM	8803	CA	GLU	1133	-10.967	114.511	54.634	1.00123.08
ATOM	8804	CB	GLU	1133	-10.851	115.979	55.111	1.00123.08
ATOM	8805	CG	GLU	1133	-10.642	117.026	54.013	1.00123.08
ATOM	8806	CD	GLU	1133	-10.698	118.406	54.658	1.00123.08
ATOM	8807	OE1	GLU	1133	-9.981	118.619	55.672	1.00123.08
ATOM	8808	OE2	GLU	1133	-11.465	119.265	54.146	1.00123.08
ATOM	8809	C	GLU	1133	-12.009	114.445	53.571	1.00123.08
ATOM	8810	O	GLU	1133	-13.206	114.524	53.843	1.00123.08
ATOM	8811	N	GLY	1134	-11.566	114.281	52.318	1.00 52.29
ATOM	8812	CA	GLY	1134	-12.436	114.032	51.220	1.00 52.29
ATOM	8813	C	GLY	1134	-12.836	112.609	51.371	1.00 52.29
ATOM	8814	O	GLY	1134	-13.925	112.200	50.972	1.00 52.29
ATOM	8815	N	ARG	1135	-11.903	111.805	51.922	1.00 89.55
ATOM	8816	CA	ARG	1135	-12.132	110.395	52.008	1.00 89.55
ATOM	8817	CB	ARG	1135	-11.561	109.648	50.798	1.00 89.55
ATOM	8818	CG	ARG	1135	-10.042	109.781	50.692	1.00 89.55
ATOM	8819	CD	ARG	1135	-9.590	111.159	50.214	1.00 89.55
ATOM	8820	NE	ARG	1135	-9.910	111.255	48.764	1.00 89.55
ATOM	8821	CZ	ARG	1135	-8.966	110.894	47.847	1.00 89.55
ATOM	8822	NH1	ARG	1135	-7.732	110.485	48.262	1.00 89.55
ATOM	8823	NH2	ARG	1135	-9.250	110.938	46.514	1.00 89.55
ATOM	8824	C	ARG	1135	-11.440	109.843	53.216	1.00 89.55
ATOM	8825	O	ARG	1135	-10.582	110.488	53.818	1.00 89.55
ATOM	8826	N	THR	1136	-11.810	108.599	53.590	1.00 41.87
ATOM	8827	CA	THR	1136	-11.244	107.942	54.733	1.00 41.87
ATOM	8828	CB	THR	1136	-11.971	106.686	55.116	1.00 41.87
ATOM	8829	OG1	THR	1136	-13.326	106.972	55.424	1.00 41.87
ATOM	8830	CG2	THR	1136	-11.266	106.061	56.331	1.00 41.87
ATOM	8831	C	THR	1136	-9.840	107.551	54.405	1.00 41.87
ATOM	8832	O	THR	1136	-9.532	107.196	53.267	1.00 41.87
ATOM	8833	N	CYS	1137	-8.932	107.632	55.400	1.00 67.71
ATOM	8834	CA	CYS	1137	-7.590	107.227	55.112	1.00 67.71
ATOM	8835	CB	CYS	1137	-6.763	108.301	54.377	1.00 67.71
ATOM	8836	SG	CYS	1137	-6.599	109.849	55.314	1.00 67.71
ATOM	8837	C	CYS	1137	-6.881	106.858	56.378	1.00 67.71
ATOM	8838	O	CYS	1137	-6.915	107.570	57.381	1.00 67.71
ATOM	8839	N	ILE	1138	-6.183	105.712	56.341	1.00132.14
ATOM	8840	CA	ILE	1138	-5.457	105.253	57.479	1.00132.14
ATOM	8841	CB	ILE	1138	-5.280	103.760	57.492	1.00132.14
ATOM	8842	CG1	ILE	1138	-6.617	103.025	57.291	1.00132.14
ATOM	8843	CG2	ILE	1138	-4.572	103.392	58.806	1.00132.14
ATOM	8844	CD1	ILE	1138	-7.648	103.264	58.386	1.00132.14
ATOM	8845	C	ILE	1138	-4.087	105.798	57.284	1.00132.14
ATOM	8846	O	ILE	1138	-3.291	105.260	56.512	1.00132.14
ATOM	8847	N	VAL	1139	-3.798	106.918	57.964	1.00119.28
ATOM	8848	CA	VAL	1139	-2.482	107.457	57.904	1.00119.28
ATOM	8849	CB	VAL	1139	-2.443	108.958	58.035	1.00119.28
ATOM	8850	CG1	VAL	1139	-3.137	109.386	59.340	1.00119.28
ATOM	8851	CG2	VAL	1139	-0.978	109.415	57.924	1.00119.28
ATOM	8852	C	VAL	1139	-1.786	106.817	59.054	1.00119.28
ATOM	8853	O	VAL	1139	-2.146	106.990	60.217	1.00119.28
ATOM	8854	N	ILE	1140	-0.779	106.001	58.729	1.00200.32
ATOM	8855	CA	ILE	1140	-0.056	105.274	59.721	1.00200.32
ATOM	8856	CB	ILE	1140	-0.174	103.792	59.460	1.00200.32
ATOM	8857	CG1	ILE	1140	0.707	102.923	60.371	1.00200.32
ATOM	8858	CG2	ILE	1140	0.032	103.575	57.957	1.00200.32
ATOM	8859	CD1	ILE	1140	2.203	102.968	60.049	1.00200.32
ATOM	8860	C	ILE	1140	1.349	105.740	59.605	1.00200.32
ATOM	8861	O	ILE	1140	1.848	105.928	58.498	1.00200.32
ATOM	8862	N	ALA	1141	2.024	105.981	60.747	1.00 68.74
ATOM	8863	CA	ALA	1141	3.358	106.467	60.588	1.00 68.74
ATOM	8864	CB	ALA	1141	3.413	107.915	60.071	1.00 68.74
ATOM	8865	C	ALA	1141	4.118	106.433	61.872	1.00 68.74
ATOM	8866	O	ALA	1141	3.598	106.133	62.948	1.00 68.74
ATOM	8867	N	HIS	1142	5.440	106.620	61.706	1.00106.30
ATOM	8868	CA	HIS	1142	6.438	106.772	62.718	1.00106.30
ATOM	8869	ND1	HIS	1142	8.739	105.327	64.410	1.00106.30
ATOM	8870	CG	HIS	1142	8.802	106.295	63.432	1.00106.30
ATOM	8871	CB	HIS	1142	7.852	106.365	62.272	1.00106.30
ATOM	8872	NE2	HIS	1142	10.448	106.648	64.938	1.00106.30
ATOM	8873	CD2	HIS	1142	9.852	107.094	63.770	1.00106.30

ATOM	8874	CE1	HIS	1142	9.745	105.585	65.284	1.00106.30	C
ATOM	8875	C	HIS	1142	6.487	108.204	63.144	1.00106.30	C
ATOM	8876	O	HIS	1142	7.213	108.542	64.074	1.00106.30	O
ATOM	8877	N	ARG	1143	5.833	109.116	62.395	1.00167.13	N
ATOM	8878	CA	ARG	1143	5.914	110.495	62.786	1.00167.13	C
ATOM	8879	CB	ARG	1143	5.476	111.480	61.692	1.00167.13	C
ATOM	8880	CG	ARG	1143	6.526	111.627	60.597	1.00167.13	C
ATOM	8881	CD	ARG	1143	7.689	112.530	61.009	1.00167.13	C
ATOM	8882	NE	ARG	1143	8.741	112.367	59.971	1.00167.13	N
ATOM	8883	CZ	ARG	1143	8.671	113.080	58.811	1.00167.13	C
ATOM	8884	NH1	ARG	1143	7.670	113.990	58.624	1.00167.13	N
ATOM	8885	NH2	ARG	1143	9.596	112.870	57.831	1.00167.13	N
ATOM	8886	C	ARG	1143	5.012	110.697	63.963	1.00167.13	C
ATOM	8887	O	ARG	1143	3.921	111.253	63.853	1.00167.13	O
ATOM	8888	N	LEU	1144	5.521	110.345	65.155	1.00178.28	N
ATOM	8889	CA	LEU	1144	4.776	110.411	66.377	1.00178.28	C
ATOM	8890	CB	LEU	1144	5.609	110.085	67.632	1.00178.28	C
ATOM	8891	CG	LEU	1144	6.011	108.612	67.827	1.00178.28	C
ATOM	8892	CD1	LEU	1144	4.770	107.731	68.000	1.00178.28	C
ATOM	8893	CD2	LEU	1144	6.983	108.104	66.758	1.00178.28	C
ATOM	8894	C	LEU	1144	4.343	111.824	66.555	1.00178.28	C
ATOM	8895	O	LEU	1144	3.339	112.100	67.207	1.00178.28	O
ATOM	8896	N	SER	1145	5.173	112.750	66.053	1.00108.76	N
ATOM	8897	CA	SER	1145	4.956	114.166	66.105	1.00108.76	C
ATOM	8898	CB	SER	1145	6.168	114.907	65.526	1.00108.76	C
ATOM	8899	OG	SER	1145	5.826	116.253	65.254	1.00108.76	O
ATOM	8900	C	SER	1145	3.753	114.629	65.316	1.00108.76	C
ATOM	8901	O	SER	1145	2.755	115.073	65.881	1.00108.76	O
ATOM	8902	N	THR	1146	3.826	114.488	63.977	1.00 85.28	N
ATOM	8903	CA	THR	1146	2.904	114.996	62.983	1.00 85.28	C
ATOM	8904	CB	THR	1146	3.410	114.836	61.577	1.00 85.28	C
ATOM	8905	OG1	THR	1146	3.563	113.461	61.257	1.00 85.28	O
ATOM	8906	CG2	THR	1146	4.760	115.561	61.453	1.00 85.28	C
ATOM	8907	C	THR	1146	1.570	114.316	63.054	1.00 85.28	C
ATOM	8908	O	THR	1146	0.602	114.765	62.443	1.00 85.28	O
ATOM	8909	N	ILE	1147	1.509	113.173	63.746	1.00117.33	N
ATOM	8910	CA	ILE	1147	0.360	112.318	63.877	1.00117.33	C
ATOM	8911	CB	ILE	1147	0.635	111.097	64.705	1.00117.33	C
ATOM	8912	CG1	ILE	1147	-0.509	110.080	64.556	1.00117.33	C
ATOM	8913	CG2	ILE	1147	0.865	111.553	66.154	1.00117.33	C
ATOM	8914	CD1	ILE	1147	-0.603	109.470	63.159	1.00117.33	C
ATOM	8915	C	ILE	1147	-0.803	113.025	64.521	1.00117.33	C
ATOM	8916	O	ILE	1147	-1.954	112.629	64.337	1.00117.33	O
ATOM	8917	N	GLN	1148	-0.538	114.082	65.304	1.00161.42	N
ATOM	8918	CA	GLN	1148	-1.511	114.697	66.161	1.00161.42	C
ATOM	8919	CB	GLN	1148	-0.963	115.988	66.799	1.00161.42	C
ATOM	8920	CG	GLN	1148	-1.655	116.391	68.102	1.00161.42	C
ATOM	8921	CD	GLN	1148	-3.090	116.795	67.811	1.00161.42	C
ATOM	8922	OE1	GLN	1148	-3.396	117.343	66.753	1.00161.42	O
ATOM	8923	NE2	GLN	1148	-4.002	116.512	68.780	1.00161.42	N
ATOM	8924	C	GLN	1148	-2.783	115.023	65.421	1.00161.42	C
ATOM	8925	O	GLN	1148	-3.863	114.891	65.994	1.00161.42	O
ATOM	8926	N	ASN	1149	-2.736	115.466	64.150	1.00138.68	N
ATOM	8927	CA	ASN	1149	-3.991	115.767	63.511	1.00138.68	C
ATOM	8928	CB	ASN	1149	-3.814	116.675	62.280	1.00138.68	C
ATOM	8929	CG	ASN	1149	-2.825	116.008	61.331	1.00138.68	C
ATOM	8930	OD1	ASN	1149	-1.701	115.684	61.710	1.00138.68	O
ATOM	8931	ND2	ASN	1149	-3.258	115.791	60.060	1.00138.68	N
ATOM	8932	C	ASN	1149	-4.660	114.489	63.074	1.00138.68	C
ATOM	8933	O	ASN	1149	-4.856	114.255	61.882	1.00138.68	O
ATOM	8934	N	ALA	1150	-5.104	113.653	64.040	1.00 57.10	N
ATOM	8935	CA	ALA	1150	-5.708	112.395	63.683	1.00 57.10	C
ATOM	8936	CB	ALA	1150	-4.901	111.175	64.155	1.00 57.10	C
ATOM	8937	C	ALA	1150	-7.064	112.301	64.311	1.00 57.10	C
ATOM	8938	O	ALA	1150	-7.293	112.828	65.398	1.00 57.10	O
ATOM	8939	N	ASP	1151	-8.025	111.677	63.593	1.00 71.62	N
ATOM	8940	CA	ASP	1151	-9.353	111.520	64.120	1.00 71.62	C
ATOM	8941	CB	ASP	1151	-10.345	111.007	63.065	1.00 71.62	C
ATOM	8942	CG	ASP	1151	-10.480	112.094	62.009	1.00 71.62	C
ATOM	8943	OD1	ASP	1151	-9.755	113.119	62.121	1.00 71.62	O
ATOM	8944	OD2	ASP	1151	-11.303	111.914	61.074	1.00 71.62	O
ATOM	8945	C	ASP	1151	-9.359	110.542	65.254	1.00 71.62	C
ATOM	8946	O	ASP	1151	-9.708	110.883	66.382	1.00 71.62	O
ATOM	8947	N	LEU	1152	-8.934	109.291	64.985	1.00 61.34	N

ATOM	8948	CA	LEU	1152	-8.916	108.289	66.010	1.00	61.34	C
ATOM	8949	CB	LEU	1152	-9.950	107.173	65.783	1.00	61.34	C
ATOM	8950	CG	LEU	1152	-9.954	106.086	66.873	1.00	61.34	C
ATOM	8951	CD1	LEU	1152	-10.302	106.671	68.250	1.00	61.34	C
ATOM	8952	CD2	LEU	1152	-10.873	104.916	66.479	1.00	61.34	C
ATOM	8953	C	LEU	1152	-7.557	107.679	65.975	1.00	61.34	C
ATOM	8954	O	LEU	1152	-7.204	106.981	65.026	1.00	61.34	O
ATOM	8955	N	ILE	1153	-6.767	107.903	67.038	1.00	85.88	N
ATOM	8956	CA	ILE	1153	-5.417	107.421	67.042	1.00	85.88	C
ATOM	8957	CB	ILE	1153	-4.451	108.393	67.663	1.00	85.88	C
ATOM	8958	CG1	ILE	1153	-4.406	109.703	66.854	1.00	85.88	C
ATOM	8959	CG2	ILE	1153	-3.081	107.703	67.780	1.00	85.88	C
ATOM	8960	CD1	ILE	1153	-5.700	110.515	66.915	1.00	85.88	C
ATOM	8961	C	ILE	1153	-5.388	106.168	67.850	1.00	85.88	C
ATOM	8962	O	ILE	1153	-5.665	106.178	69.050	1.00	85.88	O
ATOM	8963	N	VAL	1154	-5.046	105.043	67.190	1.00	45.95	N
ATOM	8964	CA	VAL	1154	-5.023	103.784	67.872	1.00	45.95	C
ATOM	8965	CB	VAL	1154	-5.682	102.671	67.106	1.00	45.95	C
ATOM	8966	CG1	VAL	1154	-5.486	101.355	67.879	1.00	45.95	C
ATOM	8967	CG2	VAL	1154	-7.157	103.038	66.868	1.00	45.95	C
ATOM	8968	C	VAL	1154	-3.603	103.385	68.081	1.00	45.95	C
ATOM	8969	O	VAL	1154	-2.778	103.435	67.169	1.00	45.95	O
ATOM	8970	N	VAL	1155	-3.292	102.980	69.325	1.00	55.93	N
ATOM	8971	CA	VAL	1155	-1.971	102.540	69.643	1.00	55.93	C
ATOM	8972	CB	VAL	1155	-1.495	103.023	70.981	1.00	55.93	C
ATOM	8973	CG1	VAL	1155	-0.098	102.440	71.251	1.00	55.93	C
ATOM	8974	CG2	VAL	1155	-1.541	104.561	70.986	1.00	55.93	C
ATOM	8975	C	VAL	1155	-2.034	101.057	69.687	1.00	55.93	C
ATOM	8976	O	VAL	1155	-2.670	100.460	70.556	1.00	55.93	O
ATOM	8977	N	PHE	1156	-1.344	100.433	68.727	1.00	120.64	N
ATOM	8978	CA	PHE	1156	-1.362	99.018	68.567	1.00	120.64	C
ATOM	8979	CB	PHE	1156	-1.492	98.696	67.066	1.00	120.64	C
ATOM	8980	CG	PHE	1156	-1.557	97.242	66.770	1.00	120.64	C
ATOM	8981	CD1	PHE	1156	-2.738	96.557	66.923	1.00	120.64	C
ATOM	8982	CD2	PHE	1156	-0.453	96.571	66.299	1.00	120.64	C
ATOM	8983	CE1	PHE	1156	-2.818	95.219	66.633	1.00	120.64	C
ATOM	8984	CE2	PHE	1156	-0.525	95.231	66.006	1.00	120.64	C
ATOM	8985	CZ	PHE	1156	-1.711	94.555	66.174	1.00	120.64	C
ATOM	8986	C	PHE	1156	-0.046	98.515	69.063	1.00	120.64	C
ATOM	8987	O	PHE	1156	1.003	99.076	68.753	1.00	120.64	O
ATOM	8988	N	GLN	1157	-0.074	97.467	69.904	1.00	77.57	N
ATOM	8989	CA	GLN	1157	1.143	96.848	70.334	1.00	77.57	C
ATOM	8990	CB	GLN	1157	1.150	96.512	71.835	1.00	77.57	C
ATOM	8991	CG	GLN	1157	2.457	95.891	72.327	1.00	77.57	C
ATOM	8992	CD	GLN	1157	3.496	97.001	72.386	1.00	77.57	C
ATOM	8993	OE1	GLN	1157	3.689	97.739	71.422	1.00	77.57	O
ATOM	8994	NE2	GLN	1157	4.177	97.132	73.557	1.00	77.57	N
ATOM	8995	C	GLN	1157	1.100	95.572	69.588	1.00	77.57	C
ATOM	8996	O	GLN	1157	0.235	94.759	69.904	1.00	77.57	O
ATOM	8997	N	ASN	1158	2.062	95.370	68.651	1.00	89.30	N
ATOM	8998	CA	ASN	1158	2.066	94.320	67.657	1.00	89.30	C
ATOM	8999	CB	ASN	1158	3.462	93.861	67.190	1.00	89.30	C
ATOM	9000	CG	ASN	1158	3.947	94.787	66.082	1.00	89.30	C
ATOM	9001	OD1	ASN	1158	3.153	95.347	65.329	1.00	89.30	O
ATOM	9002	ND2	ASN	1158	5.294	94.929	65.958	1.00	89.30	N
ATOM	9003	C	ASN	1158	1.322	93.103	68.100	1.00	89.30	C
ATOM	9004	O	ASN	1158	1.708	92.394	69.026	1.00	89.30	O
ATOM	9005	N	GLY	1159	0.173	92.888	67.433	1.00	47.31	N
ATOM	9006	CA	GLY	1159	-0.697	91.776	67.668	1.00	47.31	C
ATOM	9007	C	GLY	1159	-1.932	92.198	68.416	1.00	47.31	C
ATOM	9008	O	GLY	1159	-3.000	91.630	68.193	1.00	47.31	O
ATOM	9009	N	ARG	1160	-1.850	93.206	69.313	1.00	119.69	N
ATOM	9010	CA	ARG	1160	-3.030	93.559	70.063	1.00	119.69	C
ATOM	9011	CB	ARG	1160	-3.069	92.865	71.432	1.00	119.69	C
ATOM	9012	CG	ARG	1160	-1.842	93.158	72.296	1.00	119.69	C
ATOM	9013	CD	ARG	1160	-0.553	92.484	71.820	1.00	119.69	C
ATOM	9014	NE	ARG	1160	0.526	92.880	72.769	1.00	119.69	N
ATOM	9015	CZ	ARG	1160	1.733	92.243	72.741	1.00	119.69	C
ATOM	9016	NH1	ARG	1160	1.958	91.249	71.833	1.00	119.69	N
ATOM	9017	NH2	ARG	1160	2.714	92.602	73.620	1.00	119.69	N
ATOM	9018	C	ARG	1160	-3.101	95.048	70.273	1.00	119.69	C
ATOM	9019	O	ARG	1160	-2.079	95.694	70.498	1.00	119.69	O
ATOM	9020	N	VAL	1161	-4.324	95.639	70.213	1.00	145.14	N
ATOM	9021	CA	VAL	1161	-4.405	97.069	70.400	1.00	145.14	C

ATOM	9022	CB	VAL	1161	-5.471	97.800	69.611	1.00145.14	C
ATOM	9023	CG1	VAL	1161	-5.204	97.635	68.111	1.00145.14	C
ATOM	9024	CG2	VAL	1161	-6.868	97.353	70.058	1.00145.14	C
ATOM	9025	C	VAL	1161	-4.646	97.385	71.850	1.00145.14	C
ATOM	9026	O	VAL	1161	-5.620	96.941	72.457	1.00145.14	O
ATOM	9027	N	LYS	1162	-3.680	98.101	72.461	1.00116.11	N
ATOM	9028	CA	LYS	1162	-3.736	98.524	73.832	1.00116.11	C
ATOM	9029	CB	LYS	1162	-2.339	98.769	74.417	1.00116.11	C
ATOM	9030	CG	LYS	1162	-2.348	98.950	75.933	1.00116.11	C
ATOM	9031	CD	LYS	1162	-0.958	98.820	76.552	1.00116.11	C
ATOM	9032	CE	LYS	1162	-0.299	97.471	76.262	1.00116.11	C
ATOM	9033	NZ	LYS	1162	1.047	97.428	76.876	1.00116.11	N
ATOM	9034	C	LYS	1162	-4.542	99.773	74.082	1.00116.11	C
ATOM	9035	O	LYS	1162	-5.334	99.829	75.022	1.00116.11	O
ATOM	9036	N	GLU	1163	-4.360	100.835	73.268	1.00140.92	N
ATOM	9037	CA	GLU	1163	-5.046	102.049	73.618	1.00140.92	C
ATOM	9038	CB	GLU	1163	-4.230	102.983	74.533	1.00140.92	C
ATOM	9039	CG	GLU	1163	-2.829	103.337	74.043	1.00140.92	C
ATOM	9040	CD	GLU	1163	-2.135	104.056	75.193	1.00140.92	C
ATOM	9041	OE1	GLU	1163	-1.714	103.363	76.158	1.00140.92	O
ATOM	9042	OE2	GLU	1163	-2.025	105.309	75.126	1.00140.92	O
ATOM	9043	C	GLU	1163	-5.501	102.758	72.386	1.00140.92	C
ATOM	9044	O	GLU	1163	-5.236	102.311	71.272	1.00140.92	O
ATOM	9045	N	HIS	1164	-6.286	103.844	72.568	1.00 54.81	N
ATOM	9046	CA	HIS	1164	-6.753	104.600	71.442	1.00 54.81	C
ATOM	9047	ND1	HIS	1164	-10.026	104.251	71.057	1.00 54.81	N
ATOM	9048	CG	HIS	1164	-8.945	103.400	71.001	1.00 54.81	C
ATOM	9049	CB	HIS	1164	-7.606	103.788	70.449	1.00 54.81	C
ATOM	9050	NE2	HIS	1164	-10.697	102.313	71.916	1.00 54.81	N
ATOM	9051	CD2	HIS	1164	-9.372	102.221	71.529	1.00 54.81	C
ATOM	9052	CE1	HIS	1164	-11.047	103.550	71.613	1.00 54.81	C
ATOM	9053	C	HIS	1164	-7.609	105.723	71.940	1.00 54.81	C
ATOM	9054	O	HIS	1164	-8.002	105.755	73.106	1.00 54.81	O
ATOM	9055	N	GLY	1165	-7.916	106.686	71.043	1.00 25.64	N
ATOM	9056	CA	GLY	1165	-8.734	107.810	71.398	1.00 25.64	C
ATOM	9057	C	GLY	1165	-8.122	109.031	70.780	1.00 25.64	C
ATOM	9058	O	GLY	1165	-7.428	108.945	69.768	1.00 25.64	O
ATOM	9059	N	THR	1166	-8.390	110.214	71.377	1.00125.49	N
ATOM	9060	CA	THR	1166	-7.846	111.450	70.886	1.00125.49	C
ATOM	9061	CB	THR	1166	-8.636	112.667	71.268	1.00125.49	C
ATOM	9062	OG1	THR	1166	-8.593	112.865	72.672	1.00125.49	O
ATOM	9063	CG2	THR	1166	-10.088	112.466	70.824	1.00125.49	C
ATOM	9064	C	THR	1166	-6.491	111.625	71.497	1.00125.49	C
ATOM	9065	O	THR	1166	-6.148	110.972	72.480	1.00125.49	O
ATOM	9066	N	HIS	1167	-5.695	112.554	70.937	1.00 71.44	N
ATOM	9067	CA	HIS	1167	-4.332	112.737	71.357	1.00 71.44	C
ATOM	9068	ND1	HIS	1167	-1.559	114.391	71.914	1.00 71.44	N
ATOM	9069	CG	HIS	1167	-2.177	113.968	70.759	1.00 71.44	C
ATOM	9070	CB	HIS	1167	-3.661	113.878	70.573	1.00 71.44	C
ATOM	9071	NE2	HIS	1167	0.056	113.944	70.453	1.00 71.44	N
ATOM	9072	CD2	HIS	1167	-1.176	113.699	69.878	1.00 71.44	C
ATOM	9073	CE1	HIS	1167	-0.223	114.357	71.676	1.00 71.44	C
ATOM	9074	C	HIS	1167	-4.252	113.086	72.815	1.00 71.44	C
ATOM	9075	O	HIS	1167	-3.602	112.387	73.592	1.00 71.44	O
ATOM	9076	N	GLN	1168	-4.957	114.150	73.237	1.00154.41	N
ATOM	9077	CA	GLN	1168	-4.881	114.639	74.588	1.00154.41	C
ATOM	9078	CB	GLN	1168	-5.864	115.790	74.840	1.00154.41	C
ATOM	9079	CG	GLN	1168	-5.910	116.813	73.710	1.00154.41	C
ATOM	9080	CD	GLN	1168	-6.814	116.220	72.633	1.00154.41	C
ATOM	9081	OE1	GLN	1168	-7.344	115.120	72.784	1.00154.41	O
ATOM	9082	NE2	GLN	1168	-7.006	116.972	71.517	1.00154.41	N
ATOM	9083	C	GLN	1168	-5.385	113.548	75.457	1.00154.41	C
ATOM	9084	O	GLN	1168	-4.865	113.293	76.542	1.00154.41	O
ATOM	9085	N	GLN	1169	-6.437	112.876	74.969	1.00 44.02	N
ATOM	9086	CA	GLN	1169	-7.083	111.836	75.702	1.00 44.02	C
ATOM	9087	CB	GLN	1169	-8.276	111.255	74.923	1.00 44.02	C
ATOM	9088	CG	GLN	1169	-9.098	110.212	75.677	1.00 44.02	C
ATOM	9089	CD	GLN	1169	-10.219	109.772	74.745	1.00 44.02	C
ATOM	9090	OE1	GLN	1169	-10.225	110.106	73.560	1.00 44.02	O
ATOM	9091	NE2	GLN	1169	-11.199	109.005	75.293	1.00 44.02	N
ATOM	9092	C	GLN	1169	-6.081	110.747	75.915	1.00 44.02	C
ATOM	9093	O	GLN	1169	-6.031	110.146	76.987	1.00 44.02	O
ATOM	9094	N	LEU	1170	-5.251	110.463	74.889	1.00 46.22	N
ATOM	9095	CA	LEU	1170	-4.265	109.428	74.983	1.00 46.22	C

ATOM	9096	CB	LEU	1170	-3.492	109.222	73.669	1.00	46.22	C
ATOM	9097	CG	LEU	1170	-4.354	108.676	72.516	1.00	46.22	C
ATOM	9098	CD1	LEU	1170	-3.517	108.483	71.240	1.00	46.22	C
ATOM	9099	CD2	LEU	1170	-5.086	107.388	72.927	1.00	46.22	C
ATOM	9100	C	LEU	1170	-3.256	109.802	76.023	1.00	46.22	C
ATOM	9101	O	LEU	1170	-2.879	108.983	76.861	1.00	46.22	O
ATOM	9102	N	LEU	1171	-2.810	111.071	76.001	1.00	46.38	N
ATOM	9103	CA	LEU	1171	-1.832	111.539	76.939	1.00	46.38	C
ATOM	9104	CB	LEU	1171	-1.508	113.028	76.746	1.00	46.38	C
ATOM	9105	CG	LEU	1171	-0.464	113.575	77.733	1.00	46.38	C
ATOM	9106	CD1	LEU	1171	0.901	112.905	77.527	1.00	46.38	C
ATOM	9107	CD2	LEU	1171	-0.380	115.107	77.658	1.00	46.38	C
ATOM	9108	C	LEU	1171	-2.464	111.397	78.282	1.00	46.38	C
ATOM	9109	O	LEU	1171	-1.804	111.032	79.254	1.00	46.38	O
ATOM	9110	N	ALA	1172	-3.781	111.658	78.347	1.00	33.68	N
ATOM	9111	CA	ALA	1172	-4.471	111.572	79.597	1.00	33.68	C
ATOM	9112	CB	ALA	1172	-5.984	111.810	79.457	1.00	33.68	C
ATOM	9113	C	ALA	1172	-4.271	110.180	80.091	1.00	33.68	C
ATOM	9114	O	ALA	1172	-4.005	109.966	81.273	1.00	33.68	O
ATOM	9115	N	GLN	1173	-4.380	109.185	79.191	1.00	107.37	N
ATOM	9116	CA	GLN	1173	-4.098	107.862	79.651	1.00	107.37	C
ATOM	9117	CB	GLN	1173	-4.660	106.734	78.763	1.00	107.37	C
ATOM	9118	CG	GLN	1173	-6.153	106.441	78.949	1.00	107.37	C
ATOM	9119	CD	GLN	1173	-6.976	107.534	78.289	1.00	107.37	C
ATOM	9120	OE1	GLN	1173	-7.042	108.659	78.780	1.00	107.37	O
ATOM	9121	NE2	GLN	1173	-7.635	107.190	77.150	1.00	107.37	N
ATOM	9122	C	GLN	1173	-2.615	107.739	79.647	1.00	107.37	C
ATOM	9123	O	GLN	1173	-2.027	107.115	78.765	1.00	107.37	O
ATOM	9124	N	LYS	1174	-1.967	108.310	80.677	1.00	82.26	N
ATOM	9125	CA	LYS	1174	-0.540	108.259	80.729	1.00	82.26	C
ATOM	9126	CB	LYS	1174	0.051	108.953	81.967	1.00	82.26	C
ATOM	9127	CG	LYS	1174	-0.102	110.475	81.926	1.00	82.26	C
ATOM	9128	CD	LYS	1174	-1.550	110.957	81.995	1.00	82.26	C
ATOM	9129	CE	LYS	1174	-1.681	112.480	81.949	1.00	82.26	C
ATOM	9130	NZ	LYS	1174	-3.103	112.866	81.813	1.00	82.26	N
ATOM	9131	C	LYS	1174	-0.173	106.819	80.769	1.00	82.26	C
ATOM	9132	O	LYS	1174	-0.758	106.032	81.514	1.00	82.26	O
ATOM	9133	N	GLY	1175	0.819	106.435	79.947	1.00	32.25	N
ATOM	9134	CA	GLY	1175	1.172	105.054	79.900	1.00	32.25	C
ATOM	9135	C	GLY	1175	1.937	104.812	78.640	1.00	32.25	C
ATOM	9136	O	GLY	1175	2.963	105.442	78.390	1.00	32.25	O
ATOM	9137	N	ILE	1176	1.451	103.865	77.815	1.00	106.07	N
ATOM	9138	CA	ILE	1176	2.193	103.477	76.651	1.00	106.07	C
ATOM	9139	CB	ILE	1176	1.529	102.358	75.897	1.00	106.07	C
ATOM	9140	CG1	ILE	1176	1.403	101.101	76.775	1.00	106.07	C
ATOM	9141	CG2	ILE	1176	2.337	102.120	74.612	1.00	106.07	C
ATOM	9142	CD1	ILE	1176	0.402	101.245	77.920	1.00	106.07	C
ATOM	9143	C	ILE	1176	2.347	104.615	75.681	1.00	106.07	C
ATOM	9144	O	ILE	1176	3.466	105.047	75.413	1.00	106.07	O
ATOM	9145	N	TYR	1177	1.233	105.213	75.218	1.00	81.38	N
ATOM	9146	CA	TYR	1177	1.287	106.249	74.215	1.00	81.38	C
ATOM	9147	CB	TYR	1177	-0.102	106.827	73.892	1.00	81.38	C
ATOM	9148	CG	TYR	1177	0.057	107.987	72.968	1.00	81.38	C
ATOM	9149	CD1	TYR	1177	0.248	107.793	71.620	1.00	81.38	C
ATOM	9150	CD2	TYR	1177	0.003	109.273	73.456	1.00	81.38	C
ATOM	9151	CE1	TYR	1177	0.390	108.868	70.774	1.00	81.38	C
ATOM	9152	CE2	TYR	1177	0.143	110.351	72.616	1.00	81.38	C
ATOM	9153	CZ	TYR	1177	0.338	110.148	71.271	1.00	81.38	C
ATOM	9154	OH	TYR	1177	0.482	111.251	70.403	1.00	81.38	O
ATOM	9155	C	TYR	1177	2.125	107.356	74.759	1.00	81.38	C
ATOM	9156	O	TYR	1177	2.865	108.010	74.025	1.00	81.38	O
ATOM	9157	N	PHE	1178	1.996	107.604	76.070	1.00	108.27	N
ATOM	9158	CA	PHE	1178	2.726	108.640	76.738	1.00	108.27	C
ATOM	9159	CB	PHE	1178	2.392	108.657	78.240	1.00	108.27	C
ATOM	9160	CG	PHE	1178	3.018	109.843	78.884	1.00	108.27	C
ATOM	9161	CD1	PHE	1178	4.367	109.869	79.152	1.00	108.27	C
ATOM	9162	CD2	PHE	1178	2.244	110.922	79.245	1.00	108.27	C
ATOM	9163	CE1	PHE	1178	4.935	110.967	79.754	1.00	108.27	C
ATOM	9164	CE2	PHE	1178	2.806	112.022	79.847	1.00	108.27	C
ATOM	9165	CZ	PHE	1178	4.157	112.046	80.100	1.00	108.27	C
ATOM	9166	C	PHE	1178	4.187	108.327	76.610	1.00	108.27	C
ATOM	9167	O	PHE	1178	4.991	109.162	76.199	1.00	108.27	O
ATOM	9168	N	SER	1179	4.570	107.077	76.911	1.00	35.48	N
ATOM	9169	CA	SER	1179	5.960	106.739	76.868	1.00	35.48	C

ATOM	9170	CB	SER	1179	6.225	105.271	77.245	1.00	35.48	C
ATOM	9171	OG	SER	1179	7.616	104.996	77.184	1.00	35.48	O
ATOM	9172	C	SER	1179	6.428	106.942	75.463	1.00	35.48	C
ATOM	9173	O	SER	1179	7.599	107.224	75.232	1.00	35.48	O
ATOM	9174	N	MET	1180	5.529	106.788	74.475	1.00	87.35	N
ATOM	9175	CA	MET	1180	5.904	106.974	73.102	1.00	87.35	C
ATOM	9176	CB	MET	1180	4.750	106.675	72.131	1.00	87.35	C
ATOM	9177	CG	MET	1180	4.315	105.210	72.120	1.00	87.35	C
ATOM	9178	SD	MET	1180	5.579	104.064	71.497	1.00	87.35	S
ATOM	9179	CE	MET	1180	5.619	104.792	69.835	1.00	87.35	C
ATOM	9180	C	MET	1180	6.288	108.399	72.888	1.00	87.35	C
ATOM	9181	O	MET	1180	7.291	108.692	72.238	1.00	87.35	O
ATOM	9182	N	VAL	1181	5.493	109.341	73.426	1.00	126.22	N
ATOM	9183	CA	VAL	1181	5.890	110.700	73.246	1.00	126.22	C
ATOM	9184	CB	VAL	1181	4.848	111.736	73.594	1.00	126.22	C
ATOM	9185	CG1	VAL	1181	3.740	111.651	72.530	1.00	126.22	C
ATOM	9186	CG2	VAL	1181	4.309	111.519	75.011	1.00	126.22	C
ATOM	9187	C	VAL	1181	7.157	110.856	74.023	1.00	126.22	C
ATOM	9188	O	VAL	1181	8.018	111.665	73.682	1.00	126.22	O
ATOM	9189	N	SER	1182	7.297	110.058	75.100	1.00	97.23	N
ATOM	9190	CA	SER	1182	8.469	110.069	75.933	1.00	97.23	C
ATOM	9191	CB	SER	1182	8.361	109.079	77.106	1.00	97.23	C
ATOM	9192	OG	SER	1182	7.214	109.373	77.888	1.00	97.23	O
ATOM	9193	C	SER	1182	9.711	109.672	75.147	1.00	97.23	C
ATOM	9194	O	SER	1182	10.711	110.387	75.189	1.00	97.23	O
ATOM	9195	N	VAL	1183	9.689	108.536	74.402	1.00	128.49	N
ATOM	9196	CA	VAL	1183	10.828	108.049	73.646	1.00	128.49	C
ATOM	9197	CB	VAL	1183	10.549	106.778	72.893	1.00	128.49	C
ATOM	9198	CG1	VAL	1183	9.443	107.035	71.856	1.00	128.49	C
ATOM	9199	CG2	VAL	1183	11.867	106.282	72.276	1.00	128.49	C
ATOM	9200	C	VAL	1183	11.116	109.141	72.659	1.00	128.49	C
ATOM	9201	O	VAL	1183	12.271	109.443	72.366	1.00	128.49	O
ATOM	9202	N	GLN	1184	10.040	109.781	72.153	1.00	53.26	N
ATOM	9203	CA	GLN	1184	10.095	110.818	71.158	1.00	53.26	C
ATOM	9204	CB	GLN	1184	8.685	111.256	70.724	1.00	53.26	C
ATOM	9205	CG	GLN	1184	8.657	112.253	69.567	1.00	53.26	C
ATOM	9206	CD	GLN	1184	7.195	112.563	69.284	1.00	53.26	C
ATOM	9207	OE1	GLN	1184	6.316	112.221	70.073	1.00	53.26	O
ATOM	9208	NE2	GLN	1184	6.922	113.224	68.128	1.00	53.26	N
ATOM	9209	C	GLN	1184	10.819	112.015	71.684	1.00	53.26	C
ATOM	9210	O	GLN	1184	11.625	112.615	70.973	1.00	53.26	O
ATOM	9211	N	ALA	1185	10.557	112.400	72.947	1.00	25.43	N