

EXPDTA THEORETICAL MODEL, MODELLER 9.15 2016/04/13 12:29:12

REMARK 6 MODELLER OBJECTIVE FUNCTION: -131094.9688

REMARK 6 MODELLER BEST TEMPLATE % SEQ ID: 89.086

REMARK 6 SEQUENCE: human

REMARK 6 DOPE score: -131094.96875

REMARK 6 GA341 score: 1.00000

REMARK 6 TEMPLATE: 3G5UA

ATOM	1	N	VAL	1	48.630	81.373	6.865	1.00	29.05	N
ATOM	2	CA	VAL	1	49.384	82.279	7.763	1.00	29.05	C
ATOM	3	CB	VAL	1	48.998	83.706	7.510	1.00	29.05	C
ATOM	4	CG1	VAL	1	49.396	84.072	6.070	1.00	29.05	C
ATOM	5	CG2	VAL	1	47.497	83.873	7.804	1.00	29.05	C
ATOM	6	C	VAL	1	49.090	81.960	9.187	1.00	29.05	C
ATOM	7	O	VAL	1	48.920	80.804	9.548	1.00	29.05	O
ATOM	8	N	SER	2	49.002	82.976	10.054	1.00	79.41	N
ATOM	9	CA	SER	2	48.769	82.681	11.435	1.00	79.41	C
ATOM	10	CB	SER	2	48.666	83.943	12.304	1.00	79.41	C
ATOM	11	OG	SER	2	48.431	83.581	13.656	1.00	79.41	O
ATOM	12	C	SER	2	47.465	81.962	11.552	1.00	79.41	C
ATOM	13	O	SER	2	47.328	81.038	12.351	1.00	79.41	O
ATOM	14	N	VAL	3	46.457	82.356	10.752	1.00	80.97	N
ATOM	15	CA	VAL	3	45.198	81.707	10.939	1.00	80.97	C
ATOM	16	CB	VAL	3	44.118	82.292	10.066	1.00	80.97	C
ATOM	17	CG1	VAL	3	43.842	83.720	10.562	1.00	80.97	C
ATOM	18	CG2	VAL	3	44.560	82.264	8.592	1.00	80.97	C
ATOM	19	C	VAL	3	45.301	80.227	10.699	1.00	80.97	C
ATOM	20	O	VAL	3	45.243	79.476	11.665	1.00	80.97	O
ATOM	21	N	PHE	4	45.489	79.753	9.446	1.00	76.74	N
ATOM	22	CA	PHE	4	45.554	78.329	9.223	1.00	76.74	C
ATOM	23	CB	PHE	4	45.158	77.875	7.800	1.00	76.74	C
ATOM	24	CG	PHE	4	46.061	78.448	6.765	1.00	76.74	C
ATOM	25	CD1	PHE	4	47.274	77.862	6.486	1.00	76.74	C
ATOM	26	CD2	PHE	4	45.678	79.562	6.055	1.00	76.74	C
ATOM	27	CE1	PHE	4	48.101	78.389	5.522	1.00	76.74	C
ATOM	28	CE2	PHE	4	46.500	80.093	5.090	1.00	76.74	C
ATOM	29	CZ	PHE	4	47.714	79.507	4.823	1.00	76.74	C
ATOM	30	C	PHE	4	46.885	77.744	9.597	1.00	76.74	C
ATOM	31	O	PHE	4	46.954	76.690	10.228	1.00	76.74	O
ATOM	32	N	SER	5	47.985	78.411	9.199	1.00	56.05	N
ATOM	33	CA	SER	5	49.313	77.916	9.441	1.00	56.05	C
ATOM	34	CB	SER	5	50.415	78.682	8.684	1.00	56.05	C
ATOM	35	OG	SER	5	50.264	78.498	7.285	1.00	56.05	O
ATOM	36	C	SER	5	49.672	77.930	10.894	1.00	56.05	C
ATOM	37	O	SER	5	50.096	76.905	11.413	1.00	56.05	O
ATOM	38	N	MET	6	49.507	79.061	11.611	1.00	133.95	N
ATOM	39	CA	MET	6	49.856	79.068	13.011	1.00	133.95	C
ATOM	40	CB	MET	6	49.609	80.419	13.709	1.00	133.95	C
ATOM	41	CG	MET	6	49.836	80.430	15.225	1.00	133.95	C
ATOM	42	SD	MET	6	51.569	80.378	15.771	1.00	133.95	S
ATOM	43	CE	MET	6	51.786	78.611	15.429	1.00	133.95	C
ATOM	44	C	MET	6	48.958	78.052	13.611	1.00	133.95	C
ATOM	45	O	MET	6	49.343	77.310	14.513	1.00	133.95	O
ATOM	46	N	PHE	7	47.739	77.967	13.051	1.00	105.39	N
ATOM	47	CA	PHE	7	46.778	77.022	13.521	1.00	105.39	C
ATOM	48	CB	PHE	7	45.479	76.981	12.703	1.00	105.39	C
ATOM	49	CG	PHE	7	44.479	76.112	13.386	1.00	105.39	C
ATOM	50	CD1	PHE	7	43.640	76.642	14.338	1.00	105.39	C
ATOM	51	CD2	PHE	7	44.377	74.775	13.074	1.00	105.39	C
ATOM	52	CE1	PHE	7	42.712	75.849	14.972	1.00	105.39	C
ATOM	53	CE2	PHE	7	43.450	73.978	13.704	1.00	105.39	C
ATOM	54	CZ	PHE	7	42.616	74.515	14.655	1.00	105.39	C
ATOM	55	C	PHE	7	47.385	75.673	13.376	1.00	105.39	C
ATOM	56	O	PHE	7	47.252	74.844	14.273	1.00	105.39	O
ATOM	57	N	ARG	8	48.038	75.385	12.230	1.00	132.55	N
ATOM	58	CA	ARG	8	48.642	74.090	12.161	1.00	132.55	C
ATOM	59	CB	ARG	8	48.159	73.220	10.989	1.00	132.55	C
ATOM	60	CG	ARG	8	46.788	72.597	11.257	1.00	132.55	C
ATOM	61	CD	ARG	8	46.405	71.474	10.293	1.00	132.55	C
ATOM	62	NE	ARG	8	45.164	70.853	10.836	1.00	132.55	N
ATOM	63	CZ	ARG	8	44.468	69.930	10.110	1.00	132.55	C
ATOM	64	NH1	ARG	8	44.887	69.599	8.855	1.00	132.55	N
ATOM	65	NH2	ARG	8	43.358	69.338	10.640	1.00	132.55	N
ATOM	66	C	ARG	8	50.120	74.261	12.059	1.00	132.55	C
ATOM	67	O	ARG	8	50.690	74.240	10.969	1.00	132.55	O

ATOM	68	N	TYR	9	50.784	74.387	13.223	1.00127.50	N
ATOM	69	CA	TYR	9	52.201	74.593	13.274	1.00127.50	C
ATOM	70	CB	TYR	9	52.621	75.867	14.028	1.00127.50	C
ATOM	71	CG	TYR	9	52.438	75.630	15.489	1.00127.50	C
ATOM	72	CD1	TYR	9	51.185	75.496	16.038	1.00127.50	C
ATOM	73	CD2	TYR	9	53.534	75.567	16.318	1.00127.50	C
ATOM	74	CE1	TYR	9	51.028	75.283	17.388	1.00127.50	C
ATOM	75	CE2	TYR	9	53.385	75.355	17.667	1.00127.50	C
ATOM	76	CZ	TYR	9	52.131	75.210	18.207	1.00127.50	C
ATOM	77	OH	TYR	9	51.983	74.993	19.594	1.00127.50	O
ATOM	78	C	TYR	9	52.730	73.427	14.058	1.00127.50	C
ATOM	79	O	TYR	9	52.009	72.458	14.287	1.00127.50	O
ATOM	80	N	SER	10	54.022	73.483	14.439	1.00117.63	N
ATOM	81	CA	SER	10	54.677	72.507	15.276	1.00117.63	C
ATOM	82	CB	SER	10	54.258	72.618	16.753	1.00117.63	C
ATOM	83	OG	SER	10	52.872	72.342	16.891	1.00117.63	O
ATOM	84	C	SER	10	54.494	71.068	14.853	1.00117.63	C
ATOM	85	O	SER	10	53.750	70.346	15.513	1.00117.63	O
ATOM	86	N	ASN	11	55.131	70.591	13.747	1.00195.08	N
ATOM	87	CA	ASN	11	54.955	69.181	13.451	1.00195.08	C
ATOM	88	CB	ASN	11	53.659	68.888	12.660	1.00195.08	C
ATOM	89	CG	ASN	11	52.395	69.139	13.474	1.00195.08	C
ATOM	90	OD1	ASN	11	52.205	68.579	14.553	1.00195.08	O
ATOM	91	ND2	ASN	11	51.497	70.007	12.937	1.00195.08	N
ATOM	92	C	ASN	11	56.013	68.638	12.520	1.00195.08	C
ATOM	93	O	ASN	11	55.817	68.677	11.306	1.00195.08	O
ATOM	94	N	TRP	12	57.159	68.114	13.012	1.00120.97	N
ATOM	95	CA	TRP	12	58.062	67.497	12.072	1.00120.97	C
ATOM	96	CB	TRP	12	59.427	67.210	12.724	1.00120.97	C
ATOM	97	CG	TRP	12	60.447	66.532	11.840	1.00120.97	C
ATOM	98	CD2	TRP	12	61.858	66.779	11.935	1.00120.97	C
ATOM	99	CD1	TRP	12	60.280	65.626	10.834	1.00120.97	C
ATOM	100	NE1	TRP	12	61.500	65.288	10.299	1.00120.97	N
ATOM	101	CE2	TRP	12	62.480	65.992	10.966	1.00120.97	C
ATOM	102	CE3	TRP	12	62.575	67.597	12.758	1.00120.97	C
ATOM	103	CZ2	TRP	12	63.836	66.012	10.807	1.00120.97	C
ATOM	104	CZ3	TRP	12	63.942	67.614	12.598	1.00120.97	C
ATOM	105	CH2	TRP	12	64.561	66.836	11.641	1.00120.97	C
ATOM	106	C	TRP	12	57.489	66.195	11.583	1.00120.97	C
ATOM	107	O	TRP	12	56.877	66.100	10.520	1.00120.97	O
ATOM	108	N	LEU	13	57.583	65.171	12.450	1.00119.42	N
ATOM	109	CA	LEU	13	57.146	63.837	12.167	1.00119.42	C
ATOM	110	CB	LEU	13	57.459	62.857	13.308	1.00119.42	C
ATOM	111	CG	LEU	13	58.964	62.690	13.578	1.00119.42	C
ATOM	112	CD1	LEU	13	59.606	64.006	14.045	1.00119.42	C
ATOM	113	CD2	LEU	13	59.220	61.537	14.556	1.00119.42	C
ATOM	114	C	LEU	13	55.671	63.921	12.051	1.00119.42	C
ATOM	115	O	LEU	13	55.030	63.087	11.414	1.00119.42	O
ATOM	116	N	ASP	14	55.092	64.907	12.752	1.00 81.61	N
ATOM	117	CA	ASP	14	53.670	65.053	12.744	1.00 81.61	C
ATOM	118	CB	ASP	14	53.151	66.167	13.661	1.00 81.61	C
ATOM	119	CG	ASP	14	53.249	65.750	15.120	1.00 81.61	C
ATOM	120	OD1	ASP	14	54.034	64.817	15.438	1.00 81.61	O
ATOM	121	OD2	ASP	14	52.528	66.375	15.943	1.00 81.61	O
ATOM	122	C	ASP	14	53.183	65.390	11.370	1.00 81.61	C
ATOM	123	O	ASP	14	52.325	64.706	10.815	1.00 81.61	O
ATOM	124	N	LYS	15	53.777	66.424	10.750	1.00 72.32	N
ATOM	125	CA	LYS	15	53.313	66.874	9.469	1.00 72.32	C
ATOM	126	CB	LYS	15	54.184	68.009	8.906	1.00 72.32	C
ATOM	127	CG	LYS	15	53.739	68.534	7.540	1.00 72.32	C
ATOM	128	CD	LYS	15	54.447	69.829	7.135	1.00 72.32	C
ATOM	129	CE	LYS	15	54.168	70.269	5.697	1.00 72.32	C
ATOM	130	NZ	LYS	15	54.911	69.409	4.749	1.00 72.32	N
ATOM	131	C	LYS	15	53.389	65.733	8.503	1.00 72.32	C
ATOM	132	O	LYS	15	52.498	65.552	7.673	1.00 72.32	O
ATOM	133	N	LEU	16	54.464	64.933	8.573	1.00 94.59	N
ATOM	134	CA	LEU	16	54.587	63.831	7.661	1.00 94.59	C
ATOM	135	CB	LEU	16	55.918	63.068	7.786	1.00 94.59	C
ATOM	136	CG	LEU	16	57.143	63.822	7.236	1.00 94.59	C
ATOM	137	CD1	LEU	16	57.437	65.104	8.027	1.00 94.59	C
ATOM	138	CD2	LEU	16	58.356	62.887	7.138	1.00 94.59	C
ATOM	139	C	LEU	16	53.495	62.838	7.887	1.00 94.59	C
ATOM	140	O	LEU	16	52.861	62.381	6.938	1.00 94.59	O
ATOM	141	N	TYR	17	53.214	62.485	9.153	1.00 66.60	N

ATOM	142	CA	TYR	17	52.213	61.479	9.346	1.00	66.60	C
ATOM	143	CB	TYR	17	51.984	61.036	10.800	1.00	66.60	C
ATOM	144	CG	TYR	17	51.057	59.876	10.665	1.00	66.60	C
ATOM	145	CD1	TYR	17	51.558	58.653	10.283	1.00	66.60	C
ATOM	146	CD2	TYR	17	49.706	59.999	10.900	1.00	66.60	C
ATOM	147	CE1	TYR	17	50.730	57.566	10.139	1.00	66.60	C
ATOM	148	CE2	TYR	17	48.872	58.914	10.758	1.00	66.60	C
ATOM	149	CZ	TYR	17	49.384	57.696	10.376	1.00	66.60	C
ATOM	150	OH	TYR	17	48.535	56.580	10.226	1.00	66.60	O
ATOM	151	C	TYR	17	50.920	62.028	8.842	1.00	66.60	C
ATOM	152	O	TYR	17	50.088	61.302	8.302	1.00	66.60	O
ATOM	153	N	MET	18	50.718	63.344	9.026	1.00	74.25	N
ATOM	154	CA	MET	18	49.479	63.947	8.641	1.00	74.25	C
ATOM	155	CB	MET	18	49.477	65.460	8.930	1.00	74.25	C
ATOM	156	CG	MET	18	48.196	66.178	8.503	1.00	74.25	C
ATOM	157	SD	MET	18	48.034	67.875	9.133	1.00	74.25	S
ATOM	158	CE	MET	18	47.420	67.358	10.762	1.00	74.25	C
ATOM	159	C	MET	18	49.215	63.760	7.176	1.00	74.25	C
ATOM	160	O	MET	18	48.170	63.233	6.795	1.00	74.25	O
ATOM	161	N	VAL	19	50.183	64.104	6.309	1.00	97.24	N
ATOM	162	CA	VAL	19	49.941	64.036	4.897	1.00	97.24	C
ATOM	163	CB	VAL	19	51.137	64.454	4.094	1.00	97.24	C
ATOM	164	CG1	VAL	19	51.434	65.932	4.398	1.00	97.24	C
ATOM	165	CG2	VAL	19	52.305	63.509	4.425	1.00	97.24	C
ATOM	166	C	VAL	19	49.622	62.624	4.542	1.00	97.24	C
ATOM	167	O	VAL	19	48.778	62.365	3.684	1.00	97.24	O
ATOM	168	N	VAL	20	50.302	61.669	5.198	1.00	42.30	N
ATOM	169	CA	VAL	20	50.099	60.285	4.887	1.00	42.30	C
ATOM	170	CB	VAL	20	50.932	59.378	5.739	1.00	42.30	C
ATOM	171	CG1	VAL	20	50.507	57.927	5.460	1.00	42.30	C
ATOM	172	CG2	VAL	20	52.417	59.657	5.448	1.00	42.30	C
ATOM	173	C	VAL	20	48.668	59.909	5.124	1.00	42.30	C
ATOM	174	O	VAL	20	48.004	59.377	4.236	1.00	42.30	O
ATOM	175	N	GLY	21	48.139	60.232	6.316	1.00	34.10	N
ATOM	176	CA	GLY	21	46.808	59.837	6.681	1.00	34.10	C
ATOM	177	C	GLY	21	45.834	60.431	5.721	1.00	34.10	C
ATOM	178	O	GLY	21	44.822	59.812	5.393	1.00	34.10	O
ATOM	179	N	THR	22	46.107	61.660	5.250	1.00	50.96	N
ATOM	180	CA	THR	22	45.186	62.292	4.358	1.00	50.96	C
ATOM	181	CB	THR	22	45.675	63.619	3.855	1.00	50.96	C
ATOM	182	OG1	THR	22	45.945	64.487	4.945	1.00	50.96	O
ATOM	183	CG2	THR	22	44.585	64.229	2.956	1.00	50.96	C
ATOM	184	C	THR	22	45.039	61.392	3.174	1.00	50.96	C
ATOM	185	O	THR	22	43.926	61.083	2.755	1.00	50.96	O
ATOM	186	N	LEU	23	46.168	60.865	2.669	1.00	100.95	N
ATOM	187	CA	LEU	23	46.147	60.069	1.476	1.00	100.95	C
ATOM	188	CB	LEU	23	47.548	59.519	1.121	1.00	100.95	C
ATOM	189	CG	LEU	23	47.709	58.815	-0.251	1.00	100.95	C
ATOM	190	CD1	LEU	23	49.158	58.338	-0.433	1.00	100.95	C
ATOM	191	CD2	LEU	23	46.715	57.666	-0.495	1.00	100.95	C
ATOM	192	C	LEU	23	45.233	58.908	1.702	1.00	100.95	C
ATOM	193	O	LEU	23	44.412	58.591	0.841	1.00	100.95	O
ATOM	194	N	ALA	24	45.318	58.265	2.881	1.00	36.36	N
ATOM	195	CA	ALA	24	44.519	57.099	3.130	1.00	36.36	C
ATOM	196	CB	ALA	24	44.686	56.561	4.562	1.00	36.36	C
ATOM	197	C	ALA	24	43.092	57.498	2.970	1.00	36.36	C
ATOM	198	O	ALA	24	42.289	56.764	2.396	1.00	36.36	O
ATOM	199	N	ALA	25	42.750	58.708	3.441	1.00	47.38	N
ATOM	200	CA	ALA	25	41.391	59.147	3.355	1.00	47.38	C
ATOM	201	CB	ALA	25	41.187	60.560	3.926	1.00	47.38	C
ATOM	202	C	ALA	25	40.992	59.179	1.915	1.00	47.38	C
ATOM	203	O	ALA	25	39.909	58.726	1.544	1.00	47.38	O
ATOM	204	N	ILE	26	41.887	59.674	1.049	1.00	73.97	N
ATOM	205	CA	ILE	26	41.526	59.834	-0.326	1.00	73.97	C
ATOM	206	CB	ILE	26	42.664	60.423	-1.093	1.00	73.97	C
ATOM	207	CG1	ILE	26	42.989	61.798	-0.490	1.00	73.97	C
ATOM	208	CG2	ILE	26	42.291	60.461	-2.583	1.00	73.97	C
ATOM	209	CD1	ILE	26	44.376	62.310	-0.849	1.00	73.97	C
ATOM	210	C	ILE	26	41.169	58.504	-0.925	1.00	73.97	C
ATOM	211	O	ILE	26	40.075	58.334	-1.459	1.00	73.97	O
ATOM	212	N	ILE	27	42.037	57.492	-0.763	1.00	49.10	N
ATOM	213	CA	ILE	27	41.830	56.215	-1.393	1.00	49.10	C
ATOM	214	CB	ILE	27	42.912	55.228	-1.063	1.00	49.10	C
ATOM	215	CG1	ILE	27	42.915	54.894	0.438	1.00	49.10	C

ATOM	216	CG2	ILE	27	44.240	55.820	-1.559	1.00	49.10	C
ATOM	217	CD1	ILE	27	43.788	53.690	0.790	1.00	49.10	C
ATOM	218	C	ILE	27	40.535	55.636	-0.916	1.00	49.10	C
ATOM	219	O	ILE	27	39.802	55.014	-1.684	1.00	49.10	O
ATOM	220	N	HIS	28	40.229	55.818	0.379	1.00	75.81	N
ATOM	221	CA	HIS	28	39.045	55.272	0.977	1.00	75.81	C
ATOM	222	ND1	HIS	28	37.364	53.698	3.031	1.00	75.81	N
ATOM	223	CG	HIS	28	37.821	54.985	3.209	1.00	75.81	C
ATOM	224	CB	HIS	28	38.989	55.584	2.483	1.00	75.81	C
ATOM	225	NE2	HIS	28	36.072	54.622	4.588	1.00	75.81	N
ATOM	226	CD2	HIS	28	37.022	55.533	4.165	1.00	75.81	C
ATOM	227	CE1	HIS	28	36.317	53.535	3.879	1.00	75.81	C
ATOM	228	C	HIS	28	37.804	55.804	0.302	1.00	75.81	C
ATOM	229	O	HIS	28	36.900	55.032	-0.023	1.00	75.81	O
ATOM	230	N	GLY	29	37.727	57.128	0.045	1.00	33.51	N
ATOM	231	CA	GLY	29	36.542	57.685	-0.561	1.00	33.51	C
ATOM	232	C	GLY	29	36.375	57.054	-1.892	1.00	33.51	C
ATOM	233	O	GLY	29	35.274	56.678	-2.285	1.00	33.51	O
ATOM	234	N	ALA	30	37.494	56.878	-2.603	1.00	38.51	N
ATOM	235	CA	ALA	30	37.453	56.300	-3.908	1.00	38.51	C
ATOM	236	CB	ALA	30	38.847	56.112	-4.529	1.00	38.51	C
ATOM	237	C	ALA	30	36.834	54.944	-3.766	1.00	38.51	C
ATOM	238	O	ALA	30	36.150	54.466	-4.669	1.00	38.51	O
ATOM	239	N	GLY	31	37.061	54.279	-2.620	1.00	38.89	N
ATOM	240	CA	GLY	31	36.560	52.946	-2.453	1.00	38.89	C
ATOM	241	C	GLY	31	35.062	52.915	-2.609	1.00	38.89	C
ATOM	242	O	GLY	31	34.532	52.051	-3.304	1.00	38.89	O
ATOM	243	N	LEU	32	34.328	53.868	-2.003	1.00	112.49	N
ATOM	244	CA	LEU	32	32.888	53.802	-2.043	1.00	112.49	C
ATOM	245	CB	LEU	32	32.200	54.914	-1.229	1.00	112.49	C
ATOM	246	CG	LEU	32	32.286	54.700	0.291	1.00	112.49	C
ATOM	247	CD1	LEU	32	31.446	53.483	0.703	1.00	112.49	C
ATOM	248	CD2	LEU	32	33.741	54.603	0.775	1.00	112.49	C
ATOM	249	C	LEU	32	32.353	53.841	-3.447	1.00	112.49	C
ATOM	250	O	LEU	32	31.476	53.043	-3.775	1.00	112.49	O
ATOM	251	N	PRO	33	32.781	54.730	-4.295	1.00	98.48	N
ATOM	252	CA	PRO	33	32.288	54.702	-5.644	1.00	98.48	C
ATOM	253	CD	PRO	33	33.053	56.087	-3.883	1.00	98.48	C
ATOM	254	CB	PRO	33	32.654	56.053	-6.256	1.00	98.48	C
ATOM	255	CG	PRO	33	33.500	56.760	-5.180	1.00	98.48	C
ATOM	256	C	PRO	33	32.771	53.552	-6.457	1.00	98.48	C
ATOM	257	O	PRO	33	32.045	53.099	-7.341	1.00	98.48	O
ATOM	258	N	LEU	34	33.994	53.068	-6.193	1.00	46.86	N
ATOM	259	CA	LEU	34	34.485	51.977	-6.977	1.00	46.86	C
ATOM	260	CB	LEU	34	35.898	51.531	-6.569	1.00	46.86	C
ATOM	261	CG	LEU	34	36.970	52.610	-6.811	1.00	46.86	C
ATOM	262	CD1	LEU	34	38.372	52.094	-6.451	1.00	46.86	C
ATOM	263	CD2	LEU	34	36.886	53.175	-8.239	1.00	46.86	C
ATOM	264	C	LEU	34	33.550	50.860	-6.699	1.00	46.86	C
ATOM	265	O	LEU	34	33.134	50.128	-7.597	1.00	46.86	O
ATOM	266	N	MET	35	33.136	50.771	-5.425	1.00	49.12	N
ATOM	267	CA	MET	35	32.261	49.735	-4.991	1.00	49.12	C
ATOM	268	CB	MET	35	31.860	49.872	-3.513	1.00	49.12	C
ATOM	269	CG	MET	35	31.004	48.708	-3.009	1.00	49.12	C
ATOM	270	SD	MET	35	31.900	47.138	-2.819	1.00	49.12	S
ATOM	271	CE	MET	35	32.795	47.635	-1.319	1.00	49.12	C
ATOM	272	C	MET	35	31.019	49.846	-5.818	1.00	49.12	C
ATOM	273	O	MET	35	30.411	48.836	-6.167	1.00	49.12	O
ATOM	274	N	MET	36	30.589	51.079	-6.148	1.00	59.98	N
ATOM	275	CA	MET	36	29.397	51.196	-6.938	1.00	59.98	C
ATOM	276	CB	MET	36	29.008	52.654	-7.230	1.00	59.98	C
ATOM	277	CG	MET	36	28.481	53.406	-6.008	1.00	59.98	C
ATOM	278	SD	MET	36	26.874	52.810	-5.398	1.00	59.98	S
ATOM	279	CE	MET	36	27.504	51.266	-4.680	1.00	59.98	C
ATOM	280	C	MET	36	29.594	50.521	-8.260	1.00	59.98	C
ATOM	281	O	MET	36	28.821	49.642	-8.637	1.00	59.98	O
ATOM	282	N	LEU	37	30.701	50.837	-8.954	1.00	116.87	N
ATOM	283	CA	LEU	37	30.888	50.356	-10.294	1.00	116.87	C
ATOM	284	CB	LEU	37	32.232	50.821	-10.887	1.00	116.87	C
ATOM	285	CG	LEU	37	32.386	50.600	-12.407	1.00	116.87	C
ATOM	286	CD1	LEU	37	32.397	49.116	-12.797	1.00	116.87	C
ATOM	287	CD2	LEU	37	31.337	51.410	-13.184	1.00	116.87	C
ATOM	288	C	LEU	37	30.866	48.856	-10.296	1.00	116.87	C
ATOM	289	O	LEU	37	30.198	48.246	-11.131	1.00	116.87	O

ATOM	290	N	VAL	38	31.560	48.217	-9.335	1.00	99.65	N
ATOM	291	CA	VAL	38	31.635	46.783	-9.321	1.00	99.65	C
ATOM	292	CB	VAL	38	32.454	46.239	-8.184	1.00	99.65	C
ATOM	293	CG1	VAL	38	33.881	46.805	-8.294	1.00	99.65	C
ATOM	294	CG2	VAL	38	31.746	46.544	-6.856	1.00	99.65	C
ATOM	295	C	VAL	38	30.248	46.256	-9.187	1.00	99.65	C
ATOM	296	O	VAL	38	29.890	45.256	-9.806	1.00	99.65	O
ATOM	297	N	PHE	39	29.413	46.955	-8.401	1.00	98.26	N
ATOM	298	CA	PHE	39	28.057	46.543	-8.199	1.00	98.26	C
ATOM	299	CB	PHE	39	27.276	47.571	-7.356	1.00	98.26	C
ATOM	300	CG	PHE	39	25.817	47.268	-7.407	1.00	98.26	C
ATOM	301	CD1	PHE	39	25.271	46.283	-6.619	1.00	98.26	C
ATOM	302	CD2	PHE	39	24.993	47.972	-8.258	1.00	98.26	C
ATOM	303	CE1	PHE	39	23.924	46.009	-6.674	1.00	98.26	C
ATOM	304	CE2	PHE	39	23.646	47.705	-8.317	1.00	98.26	C
ATOM	305	CZ	PHE	39	23.109	46.720	-7.522	1.00	98.26	C
ATOM	306	C	PHE	39	27.441	46.451	-9.558	1.00	98.26	C
ATOM	307	O	PHE	39	26.653	45.548	-9.829	1.00	98.26	O
ATOM	308	N	GLY	40	27.778	47.395	-10.452	1.00	44.49	N
ATOM	309	CA	GLY	40	27.203	47.371	-11.765	1.00	44.49	C
ATOM	310	C	GLY	40	27.620	46.182	-12.577	1.00	44.49	C
ATOM	311	O	GLY	40	26.776	45.497	-13.148	1.00	44.49	O
ATOM	312	N	GLU	41	28.925	45.877	-12.635	1.00	40.11	N
ATOM	313	CA	GLU	41	29.376	44.819	-13.497	1.00	40.11	C
ATOM	314	CB	GLU	41	30.906	44.669	-13.502	1.00	40.11	C
ATOM	315	CG	GLU	41	31.611	45.871	-14.133	1.00	40.11	C
ATOM	316	CD	GLU	41	33.110	45.622	-14.088	1.00	40.11	C
ATOM	317	OE1	GLU	41	33.509	44.461	-13.808	1.00	40.11	O
ATOM	318	OE2	GLU	41	33.877	46.591	-14.336	1.00	40.11	O
ATOM	319	C	GLU	41	28.769	43.533	-13.045	1.00	40.11	C
ATOM	320	O	GLU	41	28.420	42.677	-13.858	1.00	40.11	O
ATOM	321	N	MET	42	28.635	43.348	-11.724	1.00	88.78	N
ATOM	322	CA	MET	42	28.038	42.132	-11.270	1.00	88.78	C
ATOM	323	CB	MET	42	28.008	41.988	-9.738	1.00	88.78	C
ATOM	324	CG	MET	42	27.058	42.954	-9.028	1.00	88.78	C
ATOM	325	SD	MET	42	27.012	42.760	-7.219	1.00	88.78	S
ATOM	326	CE	MET	42	28.698	43.371	-6.934	1.00	88.78	C
ATOM	327	C	MET	42	26.628	42.134	-11.765	1.00	88.78	C
ATOM	328	O	MET	42	26.098	41.106	-12.183	1.00	88.78	O
ATOM	329	N	THR	43	25.994	43.320	-11.739	1.00	51.03	N
ATOM	330	CA	THR	43	24.631	43.493	-12.147	1.00	51.03	C
ATOM	331	CB	THR	43	24.154	44.909	-11.982	1.00	51.03	C
ATOM	332	OG1	THR	43	24.210	45.298	-10.618	1.00	51.03	O
ATOM	333	CG2	THR	43	22.716	45.020	-12.514	1.00	51.03	C
ATOM	334	C	THR	43	24.478	43.174	-13.606	1.00	51.03	C
ATOM	335	O	THR	43	23.484	42.568	-14.003	1.00	51.03	O
ATOM	336	N	ASP	44	25.436	43.596	-14.457	1.00	59.74	N
ATOM	337	CA	ASP	44	25.286	43.362	-15.868	1.00	59.74	C
ATOM	338	CB	ASP	44	26.401	43.986	-16.729	1.00	59.74	C
ATOM	339	CG	ASP	44	26.074	45.452	-16.970	1.00	59.74	C
ATOM	340	OD1	ASP	44	24.859	45.777	-17.056	1.00	59.74	O
ATOM	341	OD2	ASP	44	27.032	46.263	-17.086	1.00	59.74	O
ATOM	342	C	ASP	44	25.265	41.898	-16.175	1.00	59.74	C
ATOM	343	O	ASP	44	24.394	41.423	-16.902	1.00	59.74	O
ATOM	344	N	ILE	45	26.200	41.125	-15.601	1.00	105.52	N
ATOM	345	CA	ILE	45	26.235	39.725	-15.916	1.00	105.52	C
ATOM	346	CB	ILE	45	27.343	38.953	-15.272	1.00	105.52	C
ATOM	347	CG1	ILE	45	27.396	37.556	-15.916	1.00	105.52	C
ATOM	348	CG2	ILE	45	27.129	38.954	-13.750	1.00	105.52	C
ATOM	349	CD1	ILE	45	28.681	36.780	-15.642	1.00	105.52	C
ATOM	350	C	ILE	45	24.928	39.143	-15.477	1.00	105.52	C
ATOM	351	O	ILE	45	24.409	38.196	-16.066	1.00	105.52	O
ATOM	352	N	PHE	46	24.384	39.720	-14.397	1.00	78.30	N
ATOM	353	CA	PHE	46	23.153	39.350	-13.762	1.00	78.30	C
ATOM	354	CB	PHE	46	22.917	40.300	-12.571	1.00	78.30	C
ATOM	355	CG	PHE	46	21.734	39.935	-11.745	1.00	78.30	C
ATOM	356	CD1	PHE	46	21.815	38.913	-10.830	1.00	78.30	C
ATOM	357	CD2	PHE	46	20.560	40.645	-11.855	1.00	78.30	C
ATOM	358	CE1	PHE	46	20.731	38.584	-10.053	1.00	78.30	C
ATOM	359	CE2	PHE	46	19.471	40.322	-11.081	1.00	78.30	C
ATOM	360	CZ	PHE	46	19.557	39.288	-10.180	1.00	78.30	C
ATOM	361	C	PHE	46	22.029	39.505	-14.752	1.00	78.30	C
ATOM	362	O	PHE	46	21.118	38.677	-14.815	1.00	78.30	O
ATOM	363	N	ALA	47	22.040	40.610	-15.520	1.00	51.72	N

ATOM	364	CA	ALA	47	21.020	40.857	-16.498	1.00	51.72	C
ATOM	365	CB	ALA	47	21.135	42.252	-17.139	1.00	51.72	C
ATOM	366	C	ALA	47	21.102	39.852	-17.601	1.00	51.72	C
ATOM	367	O	ALA	47	20.080	39.315	-18.013	1.00	51.72	O
ATOM	368	N	ASN	48	22.320	39.543	-18.091	1.00	78.79	N
ATOM	369	CA	ASN	48	22.474	38.665	-19.223	1.00	78.79	C
ATOM	370	CB	ASN	48	23.952	38.443	-19.596	1.00	78.79	C
ATOM	371	CG	ASN	48	24.017	37.796	-20.974	1.00	78.79	C
ATOM	372	OD1	ASN	48	23.030	37.766	-21.706	1.00	78.79	O
ATOM	373	ND2	ASN	48	25.214	37.263	-21.341	1.00	78.79	N
ATOM	374	C	ASN	48	21.902	37.326	-18.881	1.00	78.79	C
ATOM	375	O	ASN	48	21.171	36.729	-19.672	1.00	78.79	O
ATOM	376	N	ALA	49	22.221	36.819	-17.678	1.00	39.08	N
ATOM	377	CA	ALA	49	21.729	35.535	-17.276	1.00	39.08	C
ATOM	378	CB	ALA	49	22.235	35.110	-15.887	1.00	39.08	C
ATOM	379	C	ALA	49	20.237	35.616	-17.207	1.00	39.08	C
ATOM	380	O	ALA	49	19.514	34.704	-17.601	1.00	39.08	O
ATOM	381	N	GLY	50	19.726	36.732	-16.682	1.00	49.86	N
ATOM	382	CA	GLY	50	18.313	36.907	-16.575	1.00	49.86	C
ATOM	383	C	GLY	50	17.715	36.996	-17.945	1.00	49.86	C
ATOM	384	O	GLY	50	16.555	36.663	-18.133	1.00	49.86	O
ATOM	385	N	ASN	51	18.447	37.543	-18.925	1.00	58.28	N
ATOM	386	CA	ASN	51	17.947	37.743	-20.252	1.00	58.28	C
ATOM	387	CB	ASN	51	18.926	38.560	-21.113	1.00	58.28	C
ATOM	388	CG	ASN	51	18.220	38.995	-22.388	1.00	58.28	C
ATOM	389	OD1	ASN	51	17.748	38.169	-23.167	1.00	58.28	O
ATOM	390	ND2	ASN	51	18.143	40.335	-22.607	1.00	58.28	N
ATOM	391	C	ASN	51	17.752	36.428	-20.922	1.00	58.28	C
ATOM	392	O	ASN	51	16.718	36.176	-21.535	1.00	58.28	O
ATOM	393	N	LEU	52	18.772	35.558	-20.871	1.00	67.24	N
ATOM	394	CA	LEU	52	18.588	34.287	-21.490	1.00	67.24	C
ATOM	395	CB	LEU	52	19.890	33.477	-21.589	1.00	67.24	C
ATOM	396	CG	LEU	52	19.703	32.104	-22.256	1.00	67.24	C
ATOM	397	CD1	LEU	52	19.254	32.252	-23.718	1.00	67.24	C
ATOM	398	CD2	LEU	52	20.963	31.238	-22.104	1.00	67.24	C
ATOM	399	C	LEU	52	17.625	33.499	-20.668	1.00	67.24	C
ATOM	400	O	LEU	52	16.751	32.808	-21.190	1.00	67.24	O
ATOM	401	N	GLU	53	17.846	33.485	-19.341	1.00	211.93	N
ATOM	402	CA	GLU	53	16.980	32.699	-18.518	1.00	211.93	C
ATOM	403	CB	GLU	53	17.674	32.206	-17.249	1.00	211.93	C
ATOM	404	CG	GLU	53	16.873	31.150	-16.505	1.00	211.93	C
ATOM	405	CD	GLU	53	16.924	29.866	-17.322	1.00	211.93	C
ATOM	406	OE1	GLU	53	16.227	29.804	-18.370	1.00	211.93	O
ATOM	407	OE2	GLU	53	17.662	28.932	-16.908	1.00	211.93	O
ATOM	408	C	GLU	53	15.737	33.331	-18.052	1.00	211.93	C
ATOM	409	O	GLU	53	14.659	32.956	-18.495	1.00	211.93	O
ATOM	410	N	ASP	54	15.901	34.352	-17.180	1.00	214.03	N
ATOM	411	CA	ASP	54	14.901	35.043	-16.396	1.00	214.03	C
ATOM	412	CB	ASP	54	14.062	36.090	-17.160	1.00	214.03	C
ATOM	413	CG	ASP	54	13.252	36.962	-16.212	1.00	214.03	C
ATOM	414	OD1	ASP	54	13.656	37.092	-15.026	1.00	214.03	O
ATOM	415	OD2	ASP	54	12.217	37.516	-16.670	1.00	214.03	O
ATOM	416	C	ASP	54	13.954	34.061	-15.773	1.00	214.03	C
ATOM	417	O	ASP	54	13.943	32.869	-16.075	1.00	214.03	O
ATOM	418	N	LEU	55	13.151	34.534	-14.804	1.00	152.62	N
ATOM	419	CA	LEU	55	12.128	33.672	-14.321	1.00	152.62	C
ATOM	420	CB	LEU	55	11.201	34.338	-13.291	1.00	152.62	C
ATOM	421	CG	LEU	55	10.092	33.397	-12.781	1.00	152.62	C
ATOM	422	CD1	LEU	55	10.683	32.199	-12.023	1.00	152.62	C
ATOM	423	CD2	LEU	55	9.031	34.161	-11.971	1.00	152.62	C
ATOM	424	C	LEU	55	11.331	33.434	-15.551	1.00	152.62	C
ATOM	425	O	LEU	55	10.910	32.315	-15.841	1.00	152.62	O
ATOM	426	N	MET	56	11.147	34.515	-16.332	1.00	176.32	N
ATOM	427	CA	MET	56	10.467	34.364	-17.572	1.00	176.32	C
ATOM	428	CB	MET	56	9.143	35.141	-17.592	1.00	176.32	C
ATOM	429	CG	MET	56	8.133	34.618	-16.570	1.00	176.32	C
ATOM	430	SD	MET	56	6.732	35.732	-16.262	1.00	176.32	S
ATOM	431	CE	MET	56	7.640	36.810	-15.116	1.00	176.32	C
ATOM	432	C	MET	56	11.326	34.937	-18.661	1.00	176.32	C
ATOM	433	O	MET	56	10.904	35.863	-19.351	1.00	176.32	O
ATOM	434	N	SER	57	12.559	34.421	-18.866	1.00	177.75	N
ATOM	435	CA	SER	57	13.234	34.916	-20.025	1.00	177.75	C
ATOM	436	CB	SER	57	14.681	35.360	-19.918	1.00	177.75	C
ATOM	437	OG	SER	57	14.645	36.775	-19.805	1.00	177.75	O

ATOM	438	C	SER	57	13.083	33.981	-21.157	1.00177.75	C
ATOM	439	O	SER	57	12.004	33.429	-21.360	1.00177.75	O
ATOM	440	N	ASN	58	14.166	33.825	-21.947	1.00 89.29	N
ATOM	441	CA	ASN	58	14.086	33.041	-23.140	1.00 89.29	C
ATOM	442	CB	ASN	58	15.464	32.839	-23.796	1.00 89.29	C
ATOM	443	CG	ASN	58	15.263	32.226	-25.172	1.00 89.29	C
ATOM	444	OD1	ASN	58	14.140	32.122	-25.663	1.00 89.29	O
ATOM	445	ND2	ASN	58	16.384	31.798	-25.812	1.00 89.29	N
ATOM	446	C	ASN	58	13.554	31.690	-22.782	1.00 89.29	C
ATOM	447	O	ASN	58	12.438	31.378	-23.198	1.00 89.29	O
ATOM	448	N	ILE	59	14.282	30.920	-21.925	1.00172.67	N
ATOM	449	CA	ILE	59	13.887	29.600	-21.466	1.00172.67	C
ATOM	450	CB	ILE	59	12.970	29.639	-20.253	1.00172.67	C
ATOM	451	CG1	ILE	59	13.570	30.576	-19.212	1.00172.67	C
ATOM	452	CG2	ILE	59	12.851	28.249	-19.594	1.00172.67	C
ATOM	453	CD1	ILE	59	12.623	30.904	-18.058	1.00172.67	C
ATOM	454	C	ILE	59	13.236	28.851	-22.612	1.00172.67	C
ATOM	455	O	ILE	59	13.474	29.153	-23.780	1.00172.67	O
ATOM	456	N	THR	60	12.543	27.737	-22.309	1.00189.06	N
ATOM	457	CA	THR	60	11.753	26.994	-23.246	1.00189.06	C
ATOM	458	CB	THR	60	10.514	27.711	-23.721	1.00189.06	C
ATOM	459	OG1	THR	60	9.691	26.810	-24.443	1.00189.06	O
ATOM	460	CG2	THR	60	10.886	28.902	-24.619	1.00189.06	C
ATOM	461	C	THR	60	12.601	26.636	-24.407	1.00189.06	C
ATOM	462	O	THR	60	12.129	26.541	-25.538	1.00189.06	O
ATOM	463	N	ASN	61	13.896	26.416	-24.130	1.00 75.85	N
ATOM	464	CA	ASN	61	14.811	26.044	-25.158	1.00 75.85	C
ATOM	465	CB	ASN	61	15.537	27.233	-25.812	1.00 75.85	C
ATOM	466	CG	ASN	61	14.537	27.946	-26.717	1.00 75.85	C
ATOM	467	OD1	ASN	61	13.767	27.308	-27.434	1.00 75.85	O
ATOM	468	ND2	ASN	61	14.543	29.306	-26.685	1.00 75.85	N
ATOM	469	C	ASN	61	15.826	25.148	-24.525	1.00 75.85	C
ATOM	470	O	ASN	61	15.558	24.496	-23.516	1.00 75.85	O
ATOM	471	N	ARG	62	17.029	25.107	-25.125	1.00172.62	N
ATOM	472	CA	ARG	62	18.087	24.233	-24.708	1.00172.62	C
ATOM	473	CB	ARG	62	19.403	24.629	-25.393	1.00172.62	C
ATOM	474	CG	ARG	62	19.234	24.777	-26.906	1.00172.62	C
ATOM	475	CD	ARG	62	20.277	25.684	-27.561	1.00172.62	C
ATOM	476	NE	ARG	62	19.894	25.839	-28.994	1.00172.62	N
ATOM	477	CZ	ARG	62	18.973	26.776	-29.370	1.00172.62	C
ATOM	478	NH1	ARG	62	18.379	27.576	-28.437	1.00172.62	N
ATOM	479	NH2	ARG	62	18.640	26.911	-30.687	1.00172.62	N
ATOM	480	C	ARG	62	18.282	24.401	-23.230	1.00172.62	C
ATOM	481	O	ARG	62	18.797	25.415	-22.765	1.00172.62	O
ATOM	482	N	SER	63	17.874	23.378	-22.453	1.00 38.10	N
ATOM	483	CA	SER	63	17.977	23.396	-21.021	1.00 38.10	C
ATOM	484	CB	SER	63	17.262	22.202	-20.365	1.00 38.10	C
ATOM	485	OG	SER	63	17.395	22.266	-18.953	1.00 38.10	O
ATOM	486	C	SER	63	19.417	23.319	-20.609	1.00 38.10	C
ATOM	487	O	SER	63	19.861	24.042	-19.717	1.00 38.10	O
ATOM	488	N	ASP	64	20.192	22.443	-21.277	1.00 89.36	N
ATOM	489	CA	ASP	64	21.555	22.193	-20.904	1.00 89.36	C
ATOM	490	CB	ASP	64	22.234	21.118	-21.774	1.00 89.36	C
ATOM	491	CG	ASP	64	22.295	21.613	-23.214	1.00 89.36	C
ATOM	492	OD1	ASP	64	21.311	22.258	-23.665	1.00 89.36	O
ATOM	493	OD2	ASP	64	23.332	21.355	-23.882	1.00 89.36	O
ATOM	494	C	ASP	64	22.351	23.447	-21.045	1.00 89.36	C
ATOM	495	O	ASP	64	23.196	23.752	-20.206	1.00 89.36	O
ATOM	496	N	ILE	65	22.088	24.220	-22.110	1.00136.45	N
ATOM	497	CA	ILE	65	22.838	25.415	-22.346	1.00136.45	C
ATOM	498	CB	ILE	65	22.483	26.138	-23.619	1.00136.45	C
ATOM	499	CG1	ILE	65	23.557	27.189	-23.953	1.00136.45	C
ATOM	500	CG2	ILE	65	21.084	26.749	-23.460	1.00136.45	C
ATOM	501	CD1	ILE	65	24.908	26.589	-24.337	1.00136.45	C
ATOM	502	C	ILE	65	22.579	26.336	-21.203	1.00136.45	C
ATOM	503	O	ILE	65	23.427	27.153	-20.863	1.00136.45	O
ATOM	504	N	ASN	66	21.359	26.290	-20.639	1.00 67.24	N
ATOM	505	CA	ASN	66	21.002	27.120	-19.525	1.00 67.24	C
ATOM	506	CB	ASN	66	19.502	27.030	-19.200	1.00 67.24	C
ATOM	507	CG	ASN	66	18.750	27.568	-20.408	1.00 67.24	C
ATOM	508	OD1	ASN	66	17.796	26.956	-20.885	1.00 67.24	O
ATOM	509	ND2	ASN	66	19.194	28.745	-20.926	1.00 67.24	N
ATOM	510	C	ASN	66	21.769	26.703	-18.307	1.00 67.24	C
ATOM	511	O	ASN	66	22.246	27.536	-17.540	1.00 67.24	O

ATOM	512	N	ASP	67	21.911	25.390	-18.070	1.00103.66	N
ATOM	513	CA	ASP	67	22.622	25.006	-16.887	1.00103.66	C
ATOM	514	CB	ASP	67	22.579	23.486	-16.595	1.00103.66	C
ATOM	515	CG	ASP	67	23.237	22.656	-17.694	1.00103.66	C
ATOM	516	OD1	ASP	67	24.479	22.759	-17.880	1.00103.66	O
ATOM	517	OD2	ASP	67	22.498	21.873	-18.349	1.00103.66	O
ATOM	518	C	ASP	67	24.038	25.463	-17.018	1.00103.66	C
ATOM	519	O	ASP	67	24.643	25.912	-16.046	1.00103.66	O
ATOM	520	N	THR	68	24.611	25.341	-18.231	1.00110.35	N
ATOM	521	CA	THR	68	25.980	25.711	-18.444	1.00110.35	C
ATOM	522	CB	THR	68	26.552	25.204	-19.741	1.00110.35	C
ATOM	523	OG1	THR	68	27.949	25.455	-19.779	1.00110.35	O
ATOM	524	CG2	THR	68	25.857	25.887	-20.930	1.00110.35	C
ATOM	525	C	THR	68	26.170	27.193	-18.403	1.00110.35	C
ATOM	526	O	THR	68	27.080	27.684	-17.739	1.00110.35	O
ATOM	527	N	GLY	69	25.302	27.957	-19.091	1.00 31.75	N
ATOM	528	CA	GLY	69	25.521	29.369	-19.162	1.00 31.75	C
ATOM	529	C	GLY	69	25.436	29.942	-17.786	1.00 31.75	C
ATOM	530	O	GLY	69	26.228	30.805	-17.412	1.00 31.75	O
ATOM	531	N	PHE	70	24.435	29.487	-17.012	1.00 89.66	N
ATOM	532	CA	PHE	70	24.169	30.008	-15.704	1.00 89.66	C
ATOM	533	CB	PHE	70	22.758	29.654	-15.231	1.00 89.66	C
ATOM	534	CG	PHE	70	21.969	30.546	-16.116	1.00 89.66	C
ATOM	535	CD1	PHE	70	21.737	30.203	-17.427	1.00 89.66	C
ATOM	536	CD2	PHE	70	21.492	31.741	-15.644	1.00 89.66	C
ATOM	537	CE1	PHE	70	21.033	31.011	-18.276	1.00 89.66	C
ATOM	538	CE2	PHE	70	20.785	32.560	-16.484	1.00 89.66	C
ATOM	539	CZ	PHE	70	20.558	32.195	-17.791	1.00 89.66	C
ATOM	540	C	PHE	70	25.195	29.648	-14.682	1.00 89.66	C
ATOM	541	O	PHE	70	25.676	30.506	-13.946	1.00 89.66	O
ATOM	542	N	PHE	71	25.601	28.375	-14.631	1.00136.01	N
ATOM	543	CA	PHE	71	26.555	27.948	-13.653	1.00136.01	C
ATOM	544	CB	PHE	71	26.911	26.465	-13.836	1.00136.01	C
ATOM	545	CG	PHE	71	27.430	25.917	-12.554	1.00136.01	C
ATOM	546	CD1	PHE	71	28.664	26.270	-12.065	1.00136.01	C
ATOM	547	CD2	PHE	71	26.665	25.012	-11.854	1.00136.01	C
ATOM	548	CE1	PHE	71	29.109	25.732	-10.879	1.00136.01	C
ATOM	549	CE2	PHE	71	27.107	24.474	-10.671	1.00136.01	C
ATOM	550	CZ	PHE	71	28.336	24.838	-10.179	1.00136.01	C
ATOM	551	C	PHE	71	27.773	28.752	-13.968	1.00136.01	C
ATOM	552	O	PHE	71	28.553	29.112	-13.088	1.00136.01	O
ATOM	553	N	MET	72	27.961	29.030	-15.271	1.00119.08	N
ATOM	554	CA	MET	72	29.106	29.762	-15.727	1.00119.08	C
ATOM	555	CB	MET	72	29.088	29.945	-17.258	1.00119.08	C
ATOM	556	CG	MET	72	30.264	30.740	-17.836	1.00119.08	C
ATOM	557	SD	MET	72	30.136	32.547	-17.648	1.00119.08	S
ATOM	558	CE	MET	72	31.535	32.927	-18.741	1.00119.08	C
ATOM	559	C	MET	72	29.155	31.128	-15.111	1.00119.08	C
ATOM	560	O	MET	72	30.115	31.461	-14.420	1.00119.08	O
ATOM	561	N	ASN	73	28.097	31.941	-15.289	1.00102.19	N
ATOM	562	CA	ASN	73	28.121	33.283	-14.776	1.00102.19	C
ATOM	563	CB	ASN	73	26.986	34.180	-15.314	1.00102.19	C
ATOM	564	CG	ASN	73	25.633	33.596	-14.938	1.00102.19	C
ATOM	565	OD1	ASN	73	25.246	32.531	-15.416	1.00102.19	O
ATOM	566	ND2	ASN	73	24.884	34.320	-14.064	1.00102.19	N
ATOM	567	C	ASN	73	28.047	33.233	-13.286	1.00102.19	C
ATOM	568	O	ASN	73	28.555	34.118	-12.598	1.00102.19	O
ATOM	569	N	LEU	74	27.376	32.201	-12.745	1.00135.55	N
ATOM	570	CA	LEU	74	27.221	32.130	-11.322	1.00135.55	C
ATOM	571	CB	LEU	74	26.480	30.842	-10.902	1.00135.55	C
ATOM	572	CG	LEU	74	26.224	30.615	-9.391	1.00135.55	C
ATOM	573	CD1	LEU	74	25.247	29.453	-9.187	1.00135.55	C
ATOM	574	CD2	LEU	74	27.501	30.341	-8.582	1.00135.55	C
ATOM	575	C	LEU	74	28.565	32.067	-10.693	1.00135.55	C
ATOM	576	O	LEU	74	28.970	32.961	-9.952	1.00135.55	O
ATOM	577	N	GLU	75	29.323	31.018	-11.033	1.00141.63	N
ATOM	578	CA	GLU	75	30.582	30.824	-10.389	1.00141.63	C
ATOM	579	CB	GLU	75	31.292	29.555	-10.859	1.00141.63	C
ATOM	580	CG	GLU	75	30.487	28.309	-10.534	1.00141.63	C
ATOM	581	CD	GLU	75	30.303	28.253	-9.026	1.00141.63	C
ATOM	582	OE1	GLU	75	31.038	28.986	-8.311	1.00141.63	O
ATOM	583	OE2	GLU	75	29.420	27.479	-8.569	1.00141.63	O
ATOM	584	C	GLU	75	31.468	31.952	-10.763	1.00141.63	C
ATOM	585	O	GLU	75	32.207	32.470	-9.928	1.00141.63	O



ATOM	586	N	GLU	76	31.402	32.368	-12.041	1.00112.17	N
ATOM	587	CA	GLU	76	32.337	33.346	-12.507	1.00112.17	C
ATOM	588	CB	GLU	76	32.209	33.644	-14.015	1.00112.17	C
ATOM	589	CG	GLU	76	30.974	34.452	-14.419	1.00112.17	C
ATOM	590	CD	GLU	76	31.364	35.923	-14.370	1.00112.17	C
ATOM	591	OE1	GLU	76	32.410	36.266	-14.982	1.00112.17	O
ATOM	592	OE2	GLU	76	30.634	36.720	-13.722	1.00112.17	O
ATOM	593	C	GLU	76	32.179	34.633	-11.757	1.00112.17	C
ATOM	594	O	GLU	76	33.150	35.174	-11.233	1.00112.17	O
ATOM	595	N	ASP	77	30.946	35.151	-11.649	1.00 91.78	N
ATOM	596	CA	ASP	77	30.730	36.389	-10.958	1.00 91.78	C
ATOM	597	CB	ASP	77	29.277	36.883	-11.066	1.00 91.78	C
ATOM	598	CG	ASP	77	29.203	38.292	-10.494	1.00 91.78	C
ATOM	599	OD1	ASP	77	30.281	38.864	-10.178	1.00 91.78	O
ATOM	600	OD2	ASP	77	28.065	38.820	-10.372	1.00 91.78	O
ATOM	601	C	ASP	77	31.017	36.131	-9.523	1.00 91.78	C
ATOM	602	O	ASP	77	31.354	37.041	-8.774	1.00 91.78	O
ATOM	603	N	MET	78	30.857	34.869	-9.095	1.00 55.52	N
ATOM	604	CA	MET	78	31.075	34.527	-7.723	1.00 55.52	C
ATOM	605	CB	MET	78	30.756	33.051	-7.433	1.00 55.52	C
ATOM	606	CG	MET	78	30.719	32.696	-5.947	1.00 55.52	C
ATOM	607	SD	MET	78	29.908	31.106	-5.603	1.00 55.52	S
ATOM	608	CE	MET	78	28.229	31.771	-5.802	1.00 55.52	C
ATOM	609	C	MET	78	32.508	34.796	-7.396	1.00 55.52	C
ATOM	610	O	MET	78	32.819	35.253	-6.297	1.00 55.52	O
ATOM	611	N	THR	79	33.432	34.499	-8.334	1.00114.16	N
ATOM	612	CA	THR	79	34.805	34.800	-8.058	1.00114.16	C
ATOM	613	CB	THR	79	35.785	34.357	-9.109	1.00114.16	C
ATOM	614	OG1	THR	79	35.559	35.038	-10.333	1.00114.16	O
ATOM	615	CG2	THR	79	35.656	32.843	-9.306	1.00114.16	C
ATOM	616	C	THR	79	34.911	36.283	-7.985	1.00114.16	C
ATOM	617	O	THR	79	35.565	36.823	-7.096	1.00114.16	O
ATOM	618	N	ARG	80	34.210	36.972	-8.905	1.00 42.23	N
ATOM	619	CA	ARG	80	34.260	38.399	-9.022	1.00 42.23	C
ATOM	620	CB	ARG	80	33.300	38.942	-10.093	1.00 42.23	C
ATOM	621	CG	ARG	80	33.674	38.567	-11.526	1.00 42.23	C
ATOM	622	CD	ARG	80	32.699	39.126	-12.565	1.00 42.23	C
ATOM	623	NE	ARG	80	33.271	38.840	-13.908	1.00 42.23	N
ATOM	624	CZ	ARG	80	34.211	39.683	-14.426	1.00 42.23	C
ATOM	625	NH1	ARG	80	34.635	40.757	-13.699	1.00 42.23	N
ATOM	626	NH2	ARG	80	34.733	39.448	-15.666	1.00 42.23	N
ATOM	627	C	ARG	80	33.824	39.002	-7.725	1.00 42.23	C
ATOM	628	O	ARG	80	34.417	39.972	-7.256	1.00 42.23	O
ATOM	629	N	TYR	81	32.771	38.442	-7.106	1.00 62.53	N
ATOM	630	CA	TYR	81	32.284	38.984	-5.876	1.00 62.53	C
ATOM	631	CB	TYR	81	31.108	38.201	-5.253	1.00 62.53	C
ATOM	632	CG	TYR	81	29.879	38.265	-6.099	1.00 62.53	C
ATOM	633	CD1	TYR	81	29.158	39.432	-6.223	1.00 62.53	C
ATOM	634	CD2	TYR	81	29.419	37.135	-6.738	1.00 62.53	C
ATOM	635	CE1	TYR	81	28.017	39.478	-6.992	1.00 62.53	C
ATOM	636	CE2	TYR	81	28.280	37.173	-7.507	1.00 62.53	C
ATOM	637	CZ	TYR	81	27.577	38.347	-7.638	1.00 62.53	C
ATOM	638	OH	TYR	81	26.407	38.387	-8.427	1.00 62.53	O
ATOM	639	C	TYR	81	33.393	38.874	-4.882	1.00 62.53	C
ATOM	640	O	TYR	81	33.710	39.827	-4.174	1.00 62.53	O
ATOM	641	N	ALA	82	34.052	37.703	-4.842	1.00 39.63	N
ATOM	642	CA	ALA	82	35.058	37.477	-3.849	1.00 39.63	C
ATOM	643	CB	ALA	82	35.724	36.097	-3.985	1.00 39.63	C
ATOM	644	C	ALA	82	36.132	38.507	-4.000	1.00 39.63	C
ATOM	645	O	ALA	82	36.561	39.111	-3.020	1.00 39.63	O
ATOM	646	N	TYR	83	36.565	38.774	-5.243	1.00125.58	N
ATOM	647	CA	TYR	83	37.634	39.703	-5.451	1.00125.58	C
ATOM	648	CB	TYR	83	37.975	39.959	-6.932	1.00125.58	C
ATOM	649	CG	TYR	83	38.250	38.689	-7.659	1.00125.58	C
ATOM	650	CD1	TYR	83	39.397	37.959	-7.449	1.00125.58	C
ATOM	651	CD2	TYR	83	37.347	38.253	-8.599	1.00125.58	C
ATOM	652	CE1	TYR	83	39.617	36.797	-8.152	1.00125.58	C
ATOM	653	CE2	TYR	83	37.560	37.094	-9.304	1.00125.58	C
ATOM	654	CZ	TYR	83	38.698	36.361	-9.078	1.00125.58	C
ATOM	655	OH	TYR	83	38.927	35.169	-9.797	1.00125.58	O
ATOM	656	C	TYR	83	37.173	41.039	-4.966	1.00125.58	C
ATOM	657	O	TYR	83	37.961	41.804	-4.417	1.00125.58	O
ATOM	658	N	TYR	84	35.896	41.393	-5.216	1.00103.91	N
ATOM	659	CA	TYR	84	35.500	42.734	-4.891	1.00103.91	C

ATOM	660	CB	TYR	84	34.205	43.245	-5.566	1.00103.91	C
ATOM	661	CG	TYR	84	32.954	42.903	-4.829	1.00103.91	C
ATOM	662	CD1	TYR	84	32.544	43.685	-3.772	1.00103.91	C
ATOM	663	CD2	TYR	84	32.167	41.845	-5.210	1.00103.91	C
ATOM	664	CE1	TYR	84	31.385	43.400	-3.088	1.00103.91	C
ATOM	665	CE2	TYR	84	31.007	41.552	-4.532	1.00103.91	C
ATOM	666	CZ	TYR	84	30.615	42.327	-3.468	1.00103.91	C
ATOM	667	OH	TYR	84	29.424	42.025	-2.774	1.00103.91	O
ATOM	668	C	TYR	84	35.420	42.981	-3.415	1.00103.91	C
ATOM	669	O	TYR	84	35.947	43.981	-2.933	1.00103.91	O
ATOM	670	N	TYR	85	34.786	42.084	-2.636	1.00 65.54	N
ATOM	671	CA	TYR	85	34.702	42.377	-1.237	1.00 65.54	C
ATOM	672	CB	TYR	85	33.888	41.381	-0.400	1.00 65.54	C
ATOM	673	CG	TYR	85	34.641	40.113	-0.205	1.00 65.54	C
ATOM	674	CD1	TYR	85	34.568	39.090	-1.120	1.00 65.54	C
ATOM	675	CD2	TYR	85	35.416	39.951	0.921	1.00 65.54	C
ATOM	676	CE1	TYR	85	35.268	37.924	-0.914	1.00 65.54	C
ATOM	677	CE2	TYR	85	36.117	38.788	1.131	1.00 65.54	C
ATOM	678	CZ	TYR	85	36.043	37.772	0.210	1.00 65.54	C
ATOM	679	OH	TYR	85	36.759	36.576	0.419	1.00 65.54	O
ATOM	680	C	TYR	85	36.095	42.364	-0.723	1.00 65.54	C
ATOM	681	O	TYR	85	36.450	43.148	0.151	1.00 65.54	O
ATOM	682	N	SER	86	36.928	41.447	-1.242	1.00105.12	N
ATOM	683	CA	SER	86	38.265	41.378	-0.745	1.00105.12	C
ATOM	684	CB	SER	86	39.099	40.231	-1.349	1.00105.12	C
ATOM	685	OG	SER	86	39.343	40.438	-2.732	1.00105.12	O
ATOM	686	C	SER	86	38.981	42.673	-0.976	1.00105.12	C
ATOM	687	O	SER	86	39.271	43.382	-0.016	1.00105.12	O
ATOM	688	N	GLY	87	39.192	43.070	-2.249	1.00 39.60	N
ATOM	689	CA	GLY	87	40.027	44.206	-2.534	1.00 39.60	C
ATOM	690	C	GLY	87	39.515	45.420	-1.825	1.00 39.60	C
ATOM	691	O	GLY	87	40.293	46.153	-1.216	1.00 39.60	O
ATOM	692	N	ILE	88	38.199	45.686	-1.891	1.00110.20	N
ATOM	693	CA	ILE	88	37.696	46.848	-1.217	1.00110.20	C
ATOM	694	CB	ILE	88	36.246	47.107	-1.511	1.00110.20	C
ATOM	695	CG1	ILE	88	36.041	47.376	-3.010	1.00110.20	C
ATOM	696	CG2	ILE	88	35.772	48.258	-0.604	1.00110.20	C
ATOM	697	CD1	ILE	88	36.788	48.610	-3.513	1.00110.20	C
ATOM	698	C	ILE	88	37.788	46.660	0.266	1.00110.20	C
ATOM	699	O	ILE	88	38.422	47.443	0.968	1.00110.20	O
ATOM	700	N	GLY	89	37.230	45.547	0.770	1.00 42.43	N
ATOM	701	CA	GLY	89	37.085	45.357	2.184	1.00 42.43	C
ATOM	702	C	GLY	89	38.408	45.406	2.866	1.00 42.43	C
ATOM	703	O	GLY	89	38.582	46.151	3.829	1.00 42.43	O
ATOM	704	N	ALA	90	39.392	44.642	2.368	1.00 35.78	N
ATOM	705	CA	ALA	90	40.669	44.657	3.010	1.00 35.78	C
ATOM	706	CB	ALA	90	41.698	43.751	2.314	1.00 35.78	C
ATOM	707	C	ALA	90	41.148	46.058	2.894	1.00 35.78	C
ATOM	708	O	ALA	90	41.694	46.626	3.839	1.00 35.78	O
ATOM	709	N	GLY	91	40.877	46.674	1.730	1.00 48.49	N
ATOM	710	CA	GLY	91	41.387	47.987	1.507	1.00 48.49	C
ATOM	711	C	GLY	91	40.897	48.926	2.567	1.00 48.49	C
ATOM	712	O	GLY	91	41.697	49.569	3.238	1.00 48.49	O
ATOM	713	N	VAL	92	39.578	48.975	2.810	1.00133.31	N
ATOM	714	CA	VAL	92	39.029	49.928	3.735	1.00133.31	C
ATOM	715	CB	VAL	92	37.561	49.715	3.938	1.00133.31	C
ATOM	716	CG1	VAL	92	37.046	50.763	4.931	1.00133.31	C
ATOM	717	CG2	VAL	92	36.867	49.714	2.574	1.00133.31	C
ATOM	718	C	VAL	92	39.642	49.736	5.078	1.00133.31	C
ATOM	719	O	VAL	92	40.141	50.693	5.666	1.00133.31	O
ATOM	720	N	LEU	93	39.683	48.479	5.568	1.00 62.40	N
ATOM	721	CA	LEU	93	40.108	48.226	6.911	1.00 62.40	C
ATOM	722	CB	LEU	93	40.195	46.719	7.224	1.00 62.40	C
ATOM	723	CG	LEU	93	40.621	46.406	8.670	1.00 62.40	C
ATOM	724	CD1	LEU	93	39.536	46.838	9.670	1.00 62.40	C
ATOM	725	CD2	LEU	93	41.033	44.934	8.833	1.00 62.40	C
ATOM	726	C	LEU	93	41.479	48.802	7.102	1.00 62.40	C
ATOM	727	O	LEU	93	41.717	49.527	8.068	1.00 62.40	O
ATOM	728	N	VAL	94	42.410	48.542	6.164	1.00104.37	N
ATOM	729	CA	VAL	94	43.738	49.052	6.354	1.00104.37	C
ATOM	730	CB	VAL	94	44.724	48.564	5.326	1.00104.37	C
ATOM	731	CG1	VAL	94	44.840	47.038	5.462	1.00104.37	C
ATOM	732	CG2	VAL	94	44.298	49.027	3.923	1.00104.37	C
ATOM	733	C	VAL	94	43.751	50.560	6.343	1.00104.37	C

ATOM	734	O	VAL	94	44.300	51.183	7.250	1.00104.37	O
ATOM	735	N	ALA	95	43.139	51.186	5.318	1.00 53.96	N
ATOM	736	CA	ALA	95	43.166	52.615	5.122	1.00 53.96	C
ATOM	737	CB	ALA	95	42.580	53.032	3.763	1.00 53.96	C
ATOM	738	C	ALA	95	42.414	53.373	6.173	1.00 53.96	C
ATOM	739	O	ALA	95	42.821	54.472	6.550	1.00 53.96	O
ATOM	740	N	ALA	96	41.263	52.841	6.627	1.00 48.83	N
ATOM	741	CA	ALA	96	40.459	53.550	7.581	1.00 48.83	C
ATOM	742	CB	ALA	96	39.172	52.795	7.955	1.00 48.83	C
ATOM	743	C	ALA	96	41.263	53.711	8.823	1.00 48.83	C
ATOM	744	O	ALA	96	41.419	54.820	9.336	1.00 48.83	O
ATOM	745	N	TYR	97	41.888	52.604	9.263	1.00 65.24	N
ATOM	746	CA	TYR	97	42.660	52.609	10.465	1.00 65.24	C
ATOM	747	CB	TYR	97	43.354	51.263	10.735	1.00 65.24	C
ATOM	748	CG	TYR	97	44.335	51.484	11.832	1.00 65.24	C
ATOM	749	CD1	TYR	97	43.930	51.603	13.142	1.00 65.24	C
ATOM	750	CD2	TYR	97	45.676	51.562	11.537	1.00 65.24	C
ATOM	751	CE1	TYR	97	44.852	51.810	14.143	1.00 65.24	C
ATOM	752	CE2	TYR	97	46.601	51.768	12.530	1.00 65.24	C
ATOM	753	CZ	TYR	97	46.190	51.894	13.835	1.00 65.24	C
ATOM	754	OH	TYR	97	47.146	52.107	14.849	1.00 65.24	O
ATOM	755	C	TYR	97	43.707	53.657	10.300	1.00 65.24	C
ATOM	756	O	TYR	97	44.058	54.350	11.253	1.00 65.24	O
ATOM	757	N	ILE	98	44.245	53.787	9.075	1.00101.87	N
ATOM	758	CA	ILE	98	45.273	54.755	8.824	1.00101.87	C
ATOM	759	CB	ILE	98	45.802	54.684	7.421	1.00101.87	C
ATOM	760	CG1	ILE	98	46.440	53.310	7.168	1.00101.87	C
ATOM	761	CG2	ILE	98	46.777	55.857	7.217	1.00101.87	C
ATOM	762	CD1	ILE	98	47.599	53.003	8.115	1.00101.87	C
ATOM	763	C	ILE	98	44.753	56.155	9.034	1.00101.87	C
ATOM	764	O	ILE	98	45.376	56.942	9.743	1.00101.87	O
ATOM	765	N	GLN	99	43.570	56.490	8.476	1.00169.92	N
ATOM	766	CA	GLN	99	43.026	57.826	8.545	1.00169.92	C
ATOM	767	CB	GLN	99	41.574	57.908	8.027	1.00169.92	C
ATOM	768	CG	GLN	99	41.314	57.390	6.614	1.00169.92	C
ATOM	769	CD	GLN	99	39.806	57.452	6.365	1.00169.92	C
ATOM	770	OE1	GLN	99	39.277	56.744	5.510	1.00169.92	O
ATOM	771	NE2	GLN	99	39.089	58.317	7.132	1.00169.92	N
ATOM	772	C	GLN	99	42.860	58.209	9.985	1.00169.92	C
ATOM	773	O	GLN	99	43.012	59.367	10.360	1.00169.92	O
ATOM	774	N	VAL	100	42.448	57.257	10.828	1.00 69.17	N
ATOM	775	CA	VAL	100	42.223	57.541	12.217	1.00 69.17	C
ATOM	776	CB	VAL	100	41.564	56.399	12.933	1.00 69.17	C
ATOM	777	CG1	VAL	100	41.361	56.789	14.408	1.00 69.17	C
ATOM	778	CG2	VAL	100	40.271	56.030	12.186	1.00 69.17	C
ATOM	779	C	VAL	100	43.531	57.817	12.897	1.00 69.17	C
ATOM	780	O	VAL	100	43.612	58.639	13.811	1.00 69.17	O
ATOM	781	N	SER	101	44.598	57.108	12.484	1.00 44.10	N
ATOM	782	CA	SER	101	45.883	57.302	13.089	1.00 44.10	C
ATOM	783	CB	SER	101	46.963	56.375	12.512	1.00 44.10	C
ATOM	784	OG	SER	101	46.639	55.019	12.782	1.00 44.10	O
ATOM	785	C	SER	101	46.282	58.713	12.798	1.00 44.10	C
ATOM	786	O	SER	101	47.074	59.319	13.521	1.00 44.10	O
ATOM	787	N	PHE	102	45.741	59.261	11.695	1.00175.37	N
ATOM	788	CA	PHE	102	45.977	60.624	11.327	1.00175.37	C
ATOM	789	CB	PHE	102	45.152	61.016	10.081	1.00175.37	C
ATOM	790	CG	PHE	102	45.272	62.435	9.613	1.00175.37	C
ATOM	791	CD1	PHE	102	45.001	63.505	10.436	1.00175.37	C
ATOM	792	CD2	PHE	102	45.674	62.701	8.327	1.00175.37	C
ATOM	793	CE1	PHE	102	45.096	64.802	10.001	1.00175.37	C
ATOM	794	CE2	PHE	102	45.772	63.997	7.877	1.00175.37	C
ATOM	795	CZ	PHE	102	45.480	65.051	8.709	1.00175.37	C
ATOM	796	C	PHE	102	45.428	61.439	12.445	1.00175.37	C
ATOM	797	O	PHE	102	46.143	62.230	13.056	1.00175.37	O
ATOM	798	N	TRP	103	44.148	61.185	12.784	1.00137.99	N
ATOM	799	CA	TRP	103	43.443	62.039	13.688	1.00137.99	C
ATOM	800	CB	TRP	103	42.044	61.476	14.036	1.00137.99	C
ATOM	801	CG	TRP	103	41.243	62.222	15.086	1.00137.99	C
ATOM	802	CD2	TRP	103	39.840	62.522	14.961	1.00137.99	C
ATOM	803	CD1	TRP	103	41.641	62.753	16.280	1.00137.99	C
ATOM	804	NE1	TRP	103	40.577	63.354	16.908	1.00137.99	N
ATOM	805	CE2	TRP	103	39.464	63.224	16.106	1.00137.99	C
ATOM	806	CE3	TRP	103	38.943	62.250	13.966	1.00137.99	C
ATOM	807	CZ2	TRP	103	38.181	63.665	16.273	1.00137.99	C

ATOM	808	CZ3	TRP	103	37.647	62.684	14.145	1.00137.99	C
ATOM	809	CH2	TRP	103	37.273	63.379	15.276	1.00137.99	C
ATOM	810	C	TRP	103	44.210	62.254	14.953	1.00137.99	C
ATOM	811	O	TRP	103	44.722	63.347	15.182	1.00137.99	O
ATOM	812	N	CYS	104	44.387	61.212	15.769	1.00 98.13	N
ATOM	813	CA	CYS	104	44.988	61.430	17.047	1.00 98.13	C
ATOM	814	CB	CYS	104	44.781	60.258	18.010	1.00 98.13	C
ATOM	815	SG	CYS	104	43.034	59.991	18.433	1.00 98.13	S
ATOM	816	C	CYS	104	46.438	61.735	17.020	1.00 98.13	C
ATOM	817	O	CYS	104	46.855	62.602	17.780	1.00 98.13	O
ATOM	818	N	LEU	105	47.245	61.056	16.173	1.00165.17	N
ATOM	819	CA	LEU	105	48.661	61.283	16.256	1.00165.17	C
ATOM	820	CB	LEU	105	49.468	60.522	15.191	1.00165.17	C
ATOM	821	CG	LEU	105	49.515	59.005	15.435	1.00165.17	C
ATOM	822	CD1	LEU	105	50.339	58.284	14.356	1.00165.17	C
ATOM	823	CD2	LEU	105	50.013	58.703	16.859	1.00165.17	C
ATOM	824	C	LEU	105	48.879	62.735	16.035	1.00165.17	C
ATOM	825	O	LEU	105	49.526	63.404	16.842	1.00165.17	O
ATOM	826	N	ALA	106	48.246	63.276	14.986	1.00104.47	N
ATOM	827	CA	ALA	106	48.460	64.663	14.744	1.00104.47	C
ATOM	828	CB	ALA	106	47.794	65.126	13.439	1.00104.47	C
ATOM	829	C	ALA	106	47.918	65.533	15.841	1.00104.47	C
ATOM	830	O	ALA	106	48.676	66.086	16.633	1.00104.47	O
ATOM	831	N	ALA	107	46.591	65.523	16.046	1.00 73.48	N
ATOM	832	CA	ALA	107	45.958	66.453	16.942	1.00 73.48	C
ATOM	833	CB	ALA	107	44.440	66.234	17.048	1.00 73.48	C
ATOM	834	C	ALA	107	46.538	66.276	18.303	1.00 73.48	C
ATOM	835	O	ALA	107	46.751	67.239	19.037	1.00 73.48	O
ATOM	836	N	GLY	108	46.848	65.028	18.666	1.00 64.70	N
ATOM	837	CA	GLY	108	47.314	64.795	19.993	1.00 64.70	C
ATOM	838	C	GLY	108	48.561	65.589	20.265	1.00 64.70	C
ATOM	839	O	GLY	108	48.569	66.444	21.149	1.00 64.70	O
ATOM	840	N	ARG	109	49.621	65.404	19.457	1.00 71.31	N
ATOM	841	CA	ARG	109	50.865	66.065	19.746	1.00 71.31	C
ATOM	842	CB	ARG	109	51.989	65.630	18.791	1.00 71.31	C
ATOM	843	CG	ARG	109	52.358	64.153	18.954	1.00 71.31	C
ATOM	844	CD	ARG	109	53.488	63.684	18.035	1.00 71.31	C
ATOM	845	NE	ARG	109	53.820	62.281	18.410	1.00 71.31	N
ATOM	846	CZ	ARG	109	54.730	62.039	19.399	1.00 71.31	C
ATOM	847	NH1	ARG	109	55.281	63.080	20.087	1.00 71.31	N
ATOM	848	NH2	ARG	109	55.091	60.757	19.697	1.00 71.31	N
ATOM	849	C	ARG	109	50.678	67.539	19.620	1.00 71.31	C
ATOM	850	O	ARG	109	51.191	68.323	20.420	1.00 71.31	O
ATOM	851	N	GLN	110	49.896	67.955	18.615	1.00102.12	N
ATOM	852	CA	GLN	110	49.747	69.357	18.381	1.00102.12	C
ATOM	853	CB	GLN	110	48.861	69.685	17.171	1.00102.12	C
ATOM	854	CG	GLN	110	49.438	69.174	15.852	1.00102.12	C
ATOM	855	CD	GLN	110	48.680	69.856	14.727	1.00102.12	C
ATOM	856	OE1	GLN	110	49.006	70.979	14.345	1.00102.12	O
ATOM	857	NE2	GLN	110	47.640	69.170	14.183	1.00102.12	N
ATOM	858	C	GLN	110	49.137	70.012	19.580	1.00102.12	C
ATOM	859	O	GLN	110	49.528	71.115	19.958	1.00102.12	O
ATOM	860	N	ILE	111	48.137	69.367	20.198	1.00108.13	N
ATOM	861	CA	ILE	111	47.516	69.989	21.327	1.00108.13	C
ATOM	862	CB	ILE	111	46.190	69.420	21.716	1.00108.13	C
ATOM	863	CG1	ILE	111	45.189	69.773	20.611	1.00108.13	C
ATOM	864	CG2	ILE	111	45.789	69.980	23.093	1.00108.13	C
ATOM	865	CD1	ILE	111	43.794	69.252	20.889	1.00108.13	C
ATOM	866	C	ILE	111	48.409	70.037	22.515	1.00108.13	C
ATOM	867	O	ILE	111	48.423	71.052	23.200	1.00108.13	O
ATOM	868	N	HIS	112	49.194	68.975	22.780	1.00 97.27	N
ATOM	869	CA	HIS	112	50.014	68.904	23.960	1.00 97.27	C
ATOM	870	ND1	HIS	112	50.971	66.804	26.281	1.00 97.27	N
ATOM	871	CG	HIS	112	51.622	67.329	25.187	1.00 97.27	C
ATOM	872	CB	HIS	112	50.939	67.677	23.900	1.00 97.27	C
ATOM	873	NE2	HIS	112	53.124	66.926	26.821	1.00 97.27	N
ATOM	874	CD2	HIS	112	52.936	67.399	25.535	1.00 97.27	C
ATOM	875	CE1	HIS	112	51.916	66.581	27.229	1.00 97.27	C
ATOM	876	C	HIS	112	50.854	70.141	23.988	1.00 97.27	C
ATOM	877	O	HIS	112	50.957	70.820	25.011	1.00 97.27	O
ATOM	878	N	LYS	113	51.426	70.497	22.829	1.00 98.51	N
ATOM	879	CA	LYS	113	52.227	71.680	22.749	1.00 98.51	C
ATOM	880	CB	LYS	113	52.819	71.867	21.346	1.00 98.51	C
ATOM	881	CG	LYS	113	53.753	70.720	20.966	1.00 98.51	C

ATOM	882	CD	LYS	113	54.036	70.609	19.470	1.00	98.51	C
ATOM	883	CE	LYS	113	54.913	69.407	19.118	1.00	98.51	C
ATOM	884	NZ	LYS	113	54.999	69.249	17.650	1.00	98.51	N
ATOM	885	C	LYS	113	51.363	72.868	23.050	1.00	98.51	C
ATOM	886	O	LYS	113	51.733	73.746	23.832	1.00	98.51	O
ATOM	887	N	ILE	114	50.151	72.903	22.468	1.00	131.93	N
ATOM	888	CA	ILE	114	49.308	74.050	22.646	1.00	131.93	C
ATOM	889	CB	ILE	114	47.954	73.859	22.012	1.00	131.93	C
ATOM	890	CG1	ILE	114	48.057	73.786	20.480	1.00	131.93	C
ATOM	891	CG2	ILE	114	47.022	74.969	22.525	1.00	131.93	C
ATOM	892	CD1	ILE	114	48.530	75.091	19.844	1.00	131.93	C
ATOM	893	C	ILE	114	49.038	74.207	24.107	1.00	131.93	C
ATOM	894	O	ILE	114	49.308	75.245	24.705	1.00	131.93	O
ATOM	895	N	ARG	115	48.618	73.107	24.740	1.00	187.68	N
ATOM	896	CA	ARG	115	48.126	73.089	26.074	1.00	187.68	C
ATOM	897	CB	ARG	115	47.950	71.648	26.580	1.00	187.68	C
ATOM	898	CG	ARG	115	47.224	71.516	27.918	1.00	187.68	C
ATOM	899	CD	ARG	115	45.703	71.574	27.781	1.00	187.68	C
ATOM	900	NE	ARG	115	45.317	70.424	26.917	1.00	187.68	N
ATOM	901	CZ	ARG	115	44.004	70.105	26.729	1.00	187.68	C
ATOM	902	NH1	ARG	115	43.031	70.817	27.367	1.00	187.68	N
ATOM	903	NH2	ARG	115	43.667	69.065	25.912	1.00	187.68	N
ATOM	904	C	ARG	115	49.105	73.745	26.999	1.00	187.68	C
ATOM	905	O	ARG	115	48.744	74.674	27.719	1.00	187.68	O
ATOM	906	N	LYS	116	50.380	73.318	26.970	1.00	105.20	N
ATOM	907	CA	LYS	116	51.356	73.822	27.901	1.00	105.20	C
ATOM	908	CB	LYS	116	52.732	73.150	27.729	1.00	105.20	C
ATOM	909	CG	LYS	116	53.327	73.339	26.331	1.00	105.20	C
ATOM	910	CD	LYS	116	54.801	72.941	26.212	1.00	105.20	C
ATOM	911	CE	LYS	116	55.348	73.056	24.787	1.00	105.20	C
ATOM	912	NZ	LYS	116	56.786	72.705	24.763	1.00	105.20	N
ATOM	913	C	LYS	116	51.549	75.288	27.717	1.00	105.20	C
ATOM	914	O	LYS	116	51.628	76.040	28.691	1.00	105.20	O
ATOM	915	N	GLN	117	51.617	75.742	26.454	1.00	67.71	N
ATOM	916	CA	GLN	117	51.895	77.133	26.256	1.00	67.71	C
ATOM	917	CB	GLN	117	51.934	77.544	24.774	1.00	67.71	C
ATOM	918	CG	GLN	117	53.054	76.896	23.960	1.00	67.71	C
ATOM	919	CD	GLN	117	52.931	77.418	22.535	1.00	67.71	C
ATOM	920	OE1	GLN	117	52.574	76.678	21.620	1.00	67.71	O
ATOM	921	NE2	GLN	117	53.225	78.733	22.341	1.00	67.71	N
ATOM	922	C	GLN	117	50.791	77.925	26.879	1.00	67.71	C
ATOM	923	O	GLN	117	51.037	78.881	27.613	1.00	67.71	O
ATOM	924	N	PHE	118	49.538	77.506	26.635	1.00	132.78	N
ATOM	925	CA	PHE	118	48.404	78.268	27.071	1.00	132.78	C
ATOM	926	CB	PHE	118	47.086	77.711	26.502	1.00	132.78	C
ATOM	927	CG	PHE	118	45.995	78.718	26.663	1.00	132.78	C
ATOM	928	CD1	PHE	118	46.086	79.944	26.049	1.00	132.78	C
ATOM	929	CD2	PHE	118	44.896	78.471	27.445	1.00	132.78	C
ATOM	930	CE1	PHE	118	45.097	80.890	26.177	1.00	132.78	C
ATOM	931	CE2	PHE	118	43.899	79.409	27.577	1.00	132.78	C
ATOM	932	CZ	PHE	118	43.991	80.622	26.942	1.00	132.78	C
ATOM	933	C	PHE	118	48.365	78.301	28.570	1.00	132.78	C
ATOM	934	O	PHE	118	48.091	79.345	29.160	1.00	132.78	O
ATOM	935	N	PHE	119	48.677	77.167	29.230	1.00	140.54	N
ATOM	936	CA	PHE	119	48.618	77.089	30.665	1.00	140.54	C
ATOM	937	CB	PHE	119	49.173	75.742	31.165	1.00	140.54	C
ATOM	938	CG	PHE	119	48.064	74.750	31.229	1.00	140.54	C
ATOM	939	CD1	PHE	119	47.064	74.714	30.285	1.00	140.54	C
ATOM	940	CD2	PHE	119	48.065	73.801	32.224	1.00	140.54	C
ATOM	941	CE1	PHE	119	46.059	73.779	30.376	1.00	140.54	C
ATOM	942	CE2	PHE	119	47.069	72.862	32.319	1.00	140.54	C
ATOM	943	CZ	PHE	119	46.056	72.855	31.394	1.00	140.54	C
ATOM	944	C	PHE	119	49.447	78.182	31.286	1.00	140.54	C
ATOM	945	O	PHE	119	48.917	79.011	32.025	1.00	140.54	O
ATOM	946	N	HIS	120	50.755	78.246	30.972	1.00	98.55	N
ATOM	947	CA	HIS	120	51.641	79.251	31.512	1.00	98.55	C
ATOM	948	ND1	HIS	120	54.681	80.231	32.658	1.00	98.55	N
ATOM	949	CG	HIS	120	54.008	80.174	31.458	1.00	98.55	C
ATOM	950	CB	HIS	120	53.093	79.062	31.039	1.00	98.55	C
ATOM	951	NE2	HIS	120	55.238	82.065	31.530	1.00	98.55	N
ATOM	952	CD2	HIS	120	54.359	81.303	30.783	1.00	98.55	C
ATOM	953	CE1	HIS	120	55.401	81.381	32.649	1.00	98.55	C
ATOM	954	C	HIS	120	51.196	80.583	31.028	1.00	98.55	C
ATOM	955	O	HIS	120	51.331	81.592	31.722	1.00	98.55	O

ATOM	956	N	ALA	121	50.676	80.623	29.792	1.00	91.79	N
ATOM	957	CA	ALA	121	50.307	81.903	29.268	1.00	91.79	C
ATOM	958	CB	ALA	121	49.752	81.818	27.836	1.00	91.79	C
ATOM	959	C	ALA	121	49.241	82.495	30.122	1.00	91.79	C
ATOM	960	O	ALA	121	49.408	83.620	30.594	1.00	91.79	O
ATOM	961	N	ILE	122	48.174	81.718	30.423	1.00	113.25	N
ATOM	962	CA	ILE	122	47.083	82.280	31.168	1.00	113.25	C
ATOM	963	CB	ILE	122	45.980	81.315	31.490	1.00	113.25	C
ATOM	964	CG1	ILE	122	45.262	80.852	30.216	1.00	113.25	C
ATOM	965	CG2	ILE	122	45.038	81.995	32.498	1.00	113.25	C
ATOM	966	CD1	ILE	122	44.244	79.746	30.485	1.00	113.25	C
ATOM	967	C	ILE	122	47.629	82.763	32.475	1.00	113.25	C
ATOM	968	O	ILE	122	47.372	83.892	32.875	1.00	113.25	O
ATOM	969	N	MET	123	48.492	81.966	33.123	1.00	138.03	N
ATOM	970	CA	MET	123	49.009	82.274	34.428	1.00	138.03	C
ATOM	971	CB	MET	123	49.903	81.167	35.012	1.00	138.03	C
ATOM	972	CG	MET	123	49.110	79.953	35.497	1.00	138.03	C
ATOM	973	SD	MET	123	48.054	80.292	36.939	1.00	138.03	S
ATOM	974	CE	MET	123	49.425	80.387	38.128	1.00	138.03	C
ATOM	975	C	MET	123	49.797	83.548	34.443	1.00	138.03	C
ATOM	976	O	MET	123	50.024	84.101	35.513	1.00	138.03	O
ATOM	977	N	ARG	124	50.412	83.932	33.316	1.00	234.58	N
ATOM	978	CA	ARG	124	51.129	85.183	33.184	1.00	234.58	C
ATOM	979	CB	ARG	124	52.227	85.140	32.110	1.00	234.58	C
ATOM	980	CG	ARG	124	53.494	84.399	32.543	1.00	234.58	C
ATOM	981	CD	ARG	124	54.561	85.321	33.144	1.00	234.58	C
ATOM	982	NE	ARG	124	54.390	85.323	34.626	1.00	234.58	N
ATOM	983	CZ	ARG	124	54.879	86.357	35.372	1.00	234.58	C
ATOM	984	NH1	ARG	124	55.449	87.433	34.755	1.00	234.58	N
ATOM	985	NH2	ARG	124	54.804	86.316	36.734	1.00	234.58	N
ATOM	986	C	ARG	124	50.275	86.376	32.860	1.00	234.58	C
ATOM	987	O	ARG	124	50.676	87.509	33.123	1.00	234.58	O
ATOM	988	N	GLN	125	49.094	86.160	32.254	1.00	131.65	N
ATOM	989	CA	GLN	125	48.276	87.211	31.701	1.00	131.65	C
ATOM	990	CB	GLN	125	46.932	86.699	31.146	1.00	131.65	C
ATOM	991	CG	GLN	125	46.112	87.789	30.450	1.00	131.65	C
ATOM	992	CD	GLN	125	44.802	87.198	29.944	1.00	131.65	C
ATOM	993	OE1	GLN	125	44.489	86.031	30.176	1.00	131.65	O
ATOM	994	NE2	GLN	125	44.001	88.045	29.245	1.00	131.65	N
ATOM	995	C	GLN	125	47.975	88.204	32.777	1.00	131.65	C
ATOM	996	O	GLN	125	47.673	89.363	32.489	1.00	131.65	O
ATOM	997	N	GLU	126	47.971	87.749	34.042	1.00	301.48	N
ATOM	998	CA	GLU	126	47.743	88.621	35.146	1.00	301.48	C
ATOM	999	CB	GLU	126	48.874	89.626	35.420	1.00	301.48	C
ATOM	1000	CG	GLU	126	49.940	89.064	36.372	1.00	301.48	C
ATOM	1001	CD	GLU	126	50.332	87.649	35.956	1.00	301.48	C
ATOM	1002	OE1	GLU	126	49.482	86.725	36.082	1.00	301.48	O
ATOM	1003	OE2	GLU	126	51.502	87.471	35.522	1.00	301.48	O
ATOM	1004	C	GLU	126	46.407	89.274	35.068	1.00	301.48	C
ATOM	1005	O	GLU	126	45.385	88.658	34.785	1.00	301.48	O
ATOM	1006	N	ILE	127	46.410	90.585	35.277	1.00	260.53	N
ATOM	1007	CA	ILE	127	45.275	91.420	35.454	1.00	260.53	C
ATOM	1008	CB	ILE	127	45.767	92.829	35.500	1.00	260.53	C
ATOM	1009	CG1	ILE	127	44.813	93.808	36.142	1.00	260.53	C
ATOM	1010	CG2	ILE	127	46.092	93.267	34.077	1.00	260.53	C
ATOM	1011	CD1	ILE	127	45.499	95.163	36.093	1.00	260.53	C
ATOM	1012	C	ILE	127	44.265	91.320	34.342	1.00	260.53	C
ATOM	1013	O	ILE	127	43.088	91.599	34.564	1.00	260.53	O
ATOM	1014	N	GLY	128	44.695	91.021	33.104	1.00	84.06	N
ATOM	1015	CA	GLY	128	43.804	90.933	31.976	1.00	84.06	C
ATOM	1016	C	GLY	128	42.830	89.831	32.196	1.00	84.06	C
ATOM	1017	O	GLY	128	41.715	89.826	31.677	1.00	84.06	O
ATOM	1018	N	TRP	129	43.290	88.836	32.949	1.00	198.35	N
ATOM	1019	CA	TRP	129	42.594	87.646	33.318	1.00	198.35	C
ATOM	1020	CB	TRP	129	43.584	86.733	34.060	1.00	198.35	C
ATOM	1021	CG	TRP	129	43.119	85.587	34.908	1.00	198.35	C
ATOM	1022	CD2	TRP	129	43.940	85.132	35.990	1.00	198.35	C
ATOM	1023	CD1	TRP	129	42.061	84.731	34.831	1.00	198.35	C
ATOM	1024	NE1	TRP	129	42.160	83.782	35.825	1.00	198.35	N
ATOM	1025	CE2	TRP	129	43.320	84.013	36.537	1.00	198.35	C
ATOM	1026	CE3	TRP	129	45.128	85.605	36.470	1.00	198.35	C
ATOM	1027	CZ2	TRP	129	43.883	83.343	37.586	1.00	198.35	C
ATOM	1028	CZ3	TRP	129	45.685	84.939	37.534	1.00	198.35	C
ATOM	1029	CH2	TRP	129	45.074	83.829	38.082	1.00	198.35	C

ATOM	1030	C	TRP	129	41.395	88.020	34.105	1.00198.35	C
ATOM	1031	O	TRP	129	40.493	87.208	34.280	1.00198.35	O
ATOM	1032	N	PHE	130	41.461	89.166	34.788	1.00146.77	N
ATOM	1033	CA	PHE	130	40.325	89.810	35.365	1.00146.77	C
ATOM	1034	CB	PHE	130	40.746	90.643	36.585	1.00146.77	C
ATOM	1035	CG	PHE	130	39.531	91.017	37.355	1.00146.77	C
ATOM	1036	CD1	PHE	130	39.001	90.138	38.272	1.00146.77	C
ATOM	1037	CD2	PHE	130	38.931	92.239	37.168	1.00146.77	C
ATOM	1038	CE1	PHE	130	37.881	90.474	38.993	1.00146.77	C
ATOM	1039	CE2	PHE	130	37.810	92.580	37.887	1.00146.77	C
ATOM	1040	CZ	PHE	130	37.285	91.697	38.800	1.00146.77	C
ATOM	1041	C	PHE	130	39.741	90.761	34.333	1.00146.77	C
ATOM	1042	O	PHE	130	38.534	90.988	34.279	1.00146.77	O
ATOM	1043	N	ASP	131	40.616	91.353	33.482	1.00132.92	N
ATOM	1044	CA	ASP	131	40.281	92.413	32.558	1.00132.92	C
ATOM	1045	CB	ASP	131	41.461	92.805	31.648	1.00132.92	C
ATOM	1046	CG	ASP	131	42.519	93.501	32.492	1.00132.92	C
ATOM	1047	OD1	ASP	131	42.218	93.810	33.673	1.00132.92	O
ATOM	1048	OD2	ASP	131	43.642	93.732	31.968	1.00132.92	O
ATOM	1049	C	ASP	131	39.163	92.026	31.679	1.00132.92	C
ATOM	1050	O	ASP	131	38.147	92.709	31.579	1.00132.92	O
ATOM	1051	N	VAL	132	39.303	90.892	31.015	1.00127.15	N
ATOM	1052	CA	VAL	132	38.203	90.500	30.221	1.00127.15	C
ATOM	1053	CB	VAL	132	38.508	90.417	28.754	1.00127.15	C
ATOM	1054	CG1	VAL	132	38.845	91.830	28.252	1.00127.15	C
ATOM	1055	CG2	VAL	132	39.646	89.406	28.540	1.00127.15	C
ATOM	1056	C	VAL	132	37.986	89.146	30.726	1.00127.15	C
ATOM	1057	O	VAL	132	38.437	88.814	31.822	1.00127.15	O
ATOM	1058	N	HIS	133	37.227	88.359	29.975	1.00333.54	N
ATOM	1059	CA	HIS	133	37.089	86.995	30.344	1.00333.54	C
ATOM	1060	ND1	HIS	133	39.669	85.685	28.669	1.00333.54	N
ATOM	1061	CG	HIS	133	39.573	86.365	29.862	1.00333.54	C
ATOM	1062	CB	HIS	133	38.394	86.288	30.793	1.00333.54	C
ATOM	1063	NE2	HIS	133	41.579	86.796	28.917	1.00333.54	N
ATOM	1064	CD2	HIS	133	40.750	87.039	29.997	1.00333.54	C
ATOM	1065	CE1	HIS	133	40.887	85.978	28.146	1.00333.54	C
ATOM	1066	C	HIS	133	36.141	86.837	31.490	1.00333.54	C
ATOM	1067	O	HIS	133	36.344	87.374	32.578	1.00333.54	O
ATOM	1068	N	ASP	134	35.083	86.036	31.269	1.00125.85	N
ATOM	1069	CA	ASP	134	34.162	85.704	32.312	1.00125.85	C
ATOM	1070	CB	ASP	134	32.976	84.859	31.820	1.00125.85	C
ATOM	1071	CG	ASP	134	32.093	85.771	30.978	1.00125.85	C
ATOM	1072	OD1	ASP	134	31.734	86.870	31.478	1.00125.85	O
ATOM	1073	OD2	ASP	134	31.763	85.382	29.827	1.00125.85	O
ATOM	1074	C	ASP	134	34.968	84.894	33.270	1.00125.85	C
ATOM	1075	O	ASP	134	34.619	84.731	34.438	1.00125.85	O
ATOM	1076	N	VAL	135	36.053	84.304	32.737	1.00171.05	N
ATOM	1077	CA	VAL	135	37.017	83.495	33.428	1.00171.05	C
ATOM	1078	CB	VAL	135	37.393	84.047	34.769	1.00171.05	C
ATOM	1079	CG1	VAL	135	38.290	83.015	35.469	1.00171.05	C
ATOM	1080	CG2	VAL	135	38.056	85.422	34.580	1.00171.05	C
ATOM	1081	C	VAL	135	36.381	82.162	33.651	1.00171.05	C
ATOM	1082	O	VAL	135	37.067	81.138	33.652	1.00171.05	O
ATOM	1083	N	GLY	136	35.044	82.144	33.844	1.00 75.52	N
ATOM	1084	CA	GLY	136	34.328	80.912	33.892	1.00 75.52	C
ATOM	1085	C	GLY	136	34.289	80.460	32.478	1.00 75.52	C
ATOM	1086	O	GLY	136	34.587	79.314	32.152	1.00 75.52	O
ATOM	1087	N	GLU	137	33.955	81.418	31.593	1.00162.17	N
ATOM	1088	CA	GLU	137	33.857	81.145	30.198	1.00162.17	C
ATOM	1089	CB	GLU	137	33.320	82.339	29.375	1.00162.17	C
ATOM	1090	CG	GLU	137	34.205	83.588	29.361	1.00162.17	C
ATOM	1091	CD	GLU	137	35.127	83.510	28.152	1.00162.17	C
ATOM	1092	OE1	GLU	137	36.239	82.941	28.295	1.00162.17	O
ATOM	1093	OE2	GLU	137	34.732	84.017	27.068	1.00162.17	O
ATOM	1094	C	GLU	137	35.235	80.776	29.734	1.00162.17	C
ATOM	1095	O	GLU	137	35.371	80.001	28.792	1.00162.17	O
ATOM	1096	N	LEU	138	36.283	81.352	30.375	1.00158.59	N
ATOM	1097	CA	LEU	138	37.681	81.173	30.025	1.00158.59	C
ATOM	1098	CB	LEU	138	38.638	82.029	30.864	1.00158.59	C
ATOM	1099	CG	LEU	138	40.114	81.682	30.580	1.00158.59	C
ATOM	1100	CD1	LEU	138	40.587	82.215	29.218	1.00158.59	C
ATOM	1101	CD2	LEU	138	41.017	82.066	31.757	1.00158.59	C
ATOM	1102	C	LEU	138	38.189	79.788	30.210	1.00158.59	C
ATOM	1103	O	LEU	138	38.662	79.196	29.253	1.00158.59	O

ATOM	1104	N	ASN	139	38.104	79.214	31.422	1.00118.90	N
ATOM	1105	CA	ASN	139	38.637	77.895	31.621	1.00118.90	C
ATOM	1106	CB	ASN	139	38.468	77.390	33.066	1.00118.90	C
ATOM	1107	CG	ASN	139	36.999	77.482	33.453	1.00118.90	C
ATOM	1108	OD1	ASN	139	36.531	78.531	33.892	1.00118.90	O
ATOM	1109	ND2	ASN	139	36.247	76.363	33.281	1.00118.90	N
ATOM	1110	C	ASN	139	37.835	77.027	30.736	1.00118.90	C
ATOM	1111	O	ASN	139	38.367	76.110	30.114	1.00118.90	O
ATOM	1112	N	THR	140	36.529	77.347	30.635	1.00 78.01	N
ATOM	1113	CA	THR	140	35.653	76.582	29.809	1.00 78.01	C
ATOM	1114	CB	THR	140	34.275	77.168	29.695	1.00 78.01	C
ATOM	1115	OG1	THR	140	33.650	77.226	30.969	1.00 78.01	O
ATOM	1116	CG2	THR	140	33.448	76.299	28.732	1.00 78.01	C
ATOM	1117	C	THR	140	36.271	76.633	28.457	1.00 78.01	C
ATOM	1118	O	THR	140	36.355	75.617	27.777	1.00 78.01	O
ATOM	1119	N	ARG	141	36.764	77.828	28.078	1.00220.04	N
ATOM	1120	CA	ARG	141	37.434	78.096	26.835	1.00220.04	C
ATOM	1121	CB	ARG	141	37.781	79.590	26.693	1.00220.04	C
ATOM	1122	CG	ARG	141	38.693	79.914	25.514	1.00220.04	C
ATOM	1123	CD	ARG	141	39.258	81.337	25.538	1.00220.04	C
ATOM	1124	NE	ARG	141	38.109	82.289	25.578	1.00220.04	N
ATOM	1125	CZ	ARG	141	37.442	82.616	24.433	1.00220.04	C
ATOM	1126	NH1	ARG	141	37.755	81.989	23.262	1.00220.04	N
ATOM	1127	NH2	ARG	141	36.456	83.560	24.459	1.00220.04	N
ATOM	1128	C	ARG	141	38.731	77.334	26.751	1.00220.04	C
ATOM	1129	O	ARG	141	39.107	76.879	25.678	1.00220.04	O
ATOM	1130	N	LEU	142	39.488	77.185	27.853	1.00181.22	N
ATOM	1131	CA	LEU	142	40.747	76.502	27.757	1.00181.22	C
ATOM	1132	CB	LEU	142	41.437	76.396	29.136	1.00181.22	C
ATOM	1133	CG	LEU	142	42.706	75.514	29.196	1.00181.22	C
ATOM	1134	CD1	LEU	142	42.377	74.010	29.219	1.00181.22	C
ATOM	1135	CD2	LEU	142	43.680	75.866	28.065	1.00181.22	C
ATOM	1136	C	LEU	142	40.484	75.121	27.264	1.00181.22	C
ATOM	1137	O	LEU	142	41.025	74.724	26.238	1.00181.22	O
ATOM	1138	N	THR	143	39.628	74.354	27.963	1.00166.79	N
ATOM	1139	CA	THR	143	39.373	73.003	27.547	1.00166.79	C
ATOM	1140	CB	THR	143	38.646	72.202	28.584	1.00166.79	C
ATOM	1141	OG1	THR	143	37.380	72.782	28.861	1.00166.79	O
ATOM	1142	CG2	THR	143	39.504	72.159	29.857	1.00166.79	C
ATOM	1143	C	THR	143	38.549	72.974	26.311	1.00166.79	C
ATOM	1144	O	THR	143	38.876	72.269	25.362	1.00166.79	O
ATOM	1145	N	ASP	144	37.467	73.768	26.284	1.00137.68	N
ATOM	1146	CA	ASP	144	36.553	73.717	25.186	1.00137.68	C
ATOM	1147	CB	ASP	144	35.373	74.688	25.372	1.00137.68	C
ATOM	1148	CG	ASP	144	34.353	74.443	24.271	1.00137.68	C
ATOM	1149	OD1	ASP	144	34.636	73.615	23.365	1.00137.68	O
ATOM	1150	OD2	ASP	144	33.270	75.084	24.326	1.00137.68	O
ATOM	1151	C	ASP	144	37.281	74.100	23.938	1.00137.68	C
ATOM	1152	O	ASP	144	37.174	73.398	22.936	1.00137.68	O
ATOM	1153	N	ASP	145	38.042	75.215	23.965	1.00118.37	N
ATOM	1154	CA	ASP	145	38.737	75.678	22.800	1.00118.37	C
ATOM	1155	CB	ASP	145	39.334	77.087	22.956	1.00118.37	C
ATOM	1156	CG	ASP	145	38.170	78.063	23.047	1.00118.37	C
ATOM	1157	OD1	ASP	145	37.048	77.610	23.402	1.00118.37	O
ATOM	1158	OD2	ASP	145	38.386	79.273	22.771	1.00118.37	O
ATOM	1159	C	ASP	145	39.837	74.740	22.435	1.00118.37	C
ATOM	1160	O	ASP	145	39.894	74.311	21.287	1.00118.37	O
ATOM	1161	N	VAL	146	40.693	74.339	23.406	1.00175.39	N
ATOM	1162	CA	VAL	146	41.810	73.494	23.074	1.00175.39	C
ATOM	1163	CB	VAL	146	42.659	73.058	24.233	1.00175.39	C
ATOM	1164	CG1	VAL	146	43.323	74.298	24.834	1.00175.39	C
ATOM	1165	CG2	VAL	146	41.807	72.254	25.218	1.00175.39	C
ATOM	1166	C	VAL	146	41.251	72.264	22.426	1.00175.39	C
ATOM	1167	O	VAL	146	41.752	71.832	21.392	1.00175.39	O
ATOM	1168	N	SER	147	40.148	71.726	22.984	1.00 95.38	N
ATOM	1169	CA	SER	147	39.489	70.548	22.482	1.00 95.38	C
ATOM	1170	CB	SER	147	38.295	70.123	23.356	1.00 95.38	C
ATOM	1171	OG	SER	147	38.744	69.751	24.650	1.00 95.38	O
ATOM	1172	C	SER	147	38.948	70.810	21.100	1.00 95.38	C
ATOM	1173	O	SER	147	39.134	70.002	20.196	1.00 95.38	O
ATOM	1174	N	LYS	148	38.295	71.968	20.879	1.00129.52	N
ATOM	1175	CA	LYS	148	37.676	72.266	19.618	1.00129.52	C
ATOM	1176	CB	LYS	148	36.948	73.621	19.598	1.00129.52	C
ATOM	1177	CG	LYS	148	35.642	73.588	20.395	1.00129.52	C



ATOM	1178	CD	LYS	148	34.658	72.533	19.878	1.00129.52	C
ATOM	1179	CE	LYS	148	33.339	72.468	20.650	1.00129.52	C
ATOM	1180	NZ	LYS	148	32.463	71.426	20.068	1.00129.52	N
ATOM	1181	C	LYS	148	38.736	72.272	18.569	1.00129.52	C
ATOM	1182	O	LYS	148	38.467	71.981	17.405	1.00129.52	O
ATOM	1183	N	ILE	149	39.967	72.648	18.952	1.00144.25	N
ATOM	1184	CA	ILE	149	41.060	72.650	18.035	1.00144.25	C
ATOM	1185	CB	ILE	149	42.329	73.072	18.699	1.00144.25	C
ATOM	1186	CG1	ILE	149	42.027	74.297	19.566	1.00144.25	C
ATOM	1187	CG2	ILE	149	43.405	73.289	17.622	1.00144.25	C
ATOM	1188	CD1	ILE	149	41.069	75.277	18.897	1.00144.25	C
ATOM	1189	C	ILE	149	41.242	71.219	17.648	1.00144.25	C
ATOM	1190	O	ILE	149	41.325	70.882	16.468	1.00144.25	O
ATOM	1191	N	ASN	150	41.233	70.332	18.665	1.00 89.29	N
ATOM	1192	CA	ASN	150	41.474	68.930	18.483	1.00 89.29	C
ATOM	1193	CB	ASN	150	41.306	68.130	19.785	1.00 89.29	C
ATOM	1194	CG	ASN	150	41.951	66.765	19.594	1.00 89.29	C
ATOM	1195	OD1	ASN	150	41.511	65.960	18.774	1.00 89.29	O
ATOM	1196	ND2	ASN	150	43.036	66.498	20.370	1.00 89.29	N
ATOM	1197	C	ASN	150	40.471	68.397	17.509	1.00 89.29	C
ATOM	1198	O	ASN	150	40.837	67.788	16.506	1.00 89.29	O
ATOM	1199	N	GLU	151	39.175	68.675	17.735	1.00 68.03	N
ATOM	1200	CA	GLU	151	38.166	68.143	16.868	1.00 68.03	C
ATOM	1201	CB	GLU	151	36.741	68.565	17.265	1.00 68.03	C
ATOM	1202	CG	GLU	151	36.228	67.835	18.508	1.00 68.03	C
ATOM	1203	CD	GLU	151	34.823	68.337	18.805	1.00 68.03	C
ATOM	1204	OE1	GLU	151	34.441	69.394	18.236	1.00 68.03	O
ATOM	1205	OE2	GLU	151	34.113	67.671	19.605	1.00 68.03	O
ATOM	1206	C	GLU	151	38.452	68.660	15.493	1.00 68.03	C
ATOM	1207	O	GLU	151	38.306	67.934	14.515	1.00 68.03	O
ATOM	1208	N	GLY	152	38.935	69.912	15.383	1.00 54.66	N
ATOM	1209	CA	GLY	152	39.165	70.491	14.095	1.00 54.66	C
ATOM	1210	C	GLY	152	40.111	69.624	13.318	1.00 54.66	C
ATOM	1211	O	GLY	152	39.911	69.421	12.122	1.00 54.66	O
ATOM	1212	N	ILE	153	41.183	69.116	13.961	1.00151.01	N
ATOM	1213	CA	ILE	153	42.175	68.360	13.239	1.00151.01	C
ATOM	1214	CB	ILE	153	43.403	68.112	14.059	1.00151.01	C
ATOM	1215	CG1	ILE	153	43.944	69.442	14.603	1.00151.01	C
ATOM	1216	CG2	ILE	153	44.408	67.347	13.178	1.00151.01	C
ATOM	1217	CD1	ILE	153	44.216	70.476	13.515	1.00151.01	C
ATOM	1218	C	ILE	153	41.716	66.992	12.762	1.00151.01	C
ATOM	1219	O	ILE	153	41.778	66.704	11.569	1.00151.01	O
ATOM	1220	N	GLY	154	41.237	66.111	13.673	1.00 69.94	N
ATOM	1221	CA	GLY	154	40.868	64.750	13.341	1.00 69.94	C
ATOM	1222	C	GLY	154	39.666	64.691	12.439	1.00 69.94	C
ATOM	1223	O	GLY	154	39.615	63.856	11.540	1.00 69.94	O
ATOM	1224	N	ASP	155	38.629	65.519	12.683	1.00153.07	N
ATOM	1225	CA	ASP	155	37.464	65.454	11.844	1.00153.07	C
ATOM	1226	CB	ASP	155	36.164	66.051	12.434	1.00153.07	C
ATOM	1227	CG	ASP	155	36.279	67.528	12.740	1.00153.07	C
ATOM	1228	OD1	ASP	155	37.206	68.192	12.208	1.00153.07	O
ATOM	1229	OD2	ASP	155	35.447	68.011	13.553	1.00153.07	O
ATOM	1230	C	ASP	155	37.781	66.003	10.498	1.00153.07	C
ATOM	1231	O	ASP	155	37.255	65.512	9.505	1.00153.07	O
ATOM	1232	N	LYS	156	38.686	66.994	10.416	1.00157.37	N
ATOM	1233	CA	LYS	156	39.056	67.553	9.154	1.00157.37	C
ATOM	1234	CB	LYS	156	40.131	68.649	9.292	1.00157.37	C
ATOM	1235	CG	LYS	156	40.997	68.916	8.058	1.00157.37	C
ATOM	1236	CD	LYS	156	42.193	67.963	7.967	1.00157.37	C
ATOM	1237	CE	LYS	156	42.095	66.851	6.927	1.00157.37	C
ATOM	1238	NZ	LYS	156	43.047	65.774	7.272	1.00157.37	N
ATOM	1239	C	LYS	156	39.538	66.426	8.312	1.00157.37	C
ATOM	1240	O	LYS	156	39.340	66.418	7.097	1.00157.37	O
ATOM	1241	N	ILE	157	40.169	65.420	8.944	1.00133.31	N
ATOM	1242	CA	ILE	157	40.672	64.349	8.144	1.00133.31	C
ATOM	1243	CB	ILE	157	41.443	63.305	8.910	1.00133.31	C
ATOM	1244	CG1	ILE	157	40.601	62.216	9.603	1.00133.31	C
ATOM	1245	CG2	ILE	157	42.185	64.142	9.955	1.00133.31	C
ATOM	1246	CD1	ILE	157	40.132	61.087	8.682	1.00133.31	C
ATOM	1247	C	ILE	157	39.470	63.712	7.535	1.00133.31	C
ATOM	1248	O	ILE	157	39.412	63.494	6.329	1.00133.31	O
ATOM	1249	N	GLY	158	38.425	63.499	8.355	1.00 47.94	N
ATOM	1250	CA	GLY	158	37.247	62.808	7.925	1.00 47.94	C
ATOM	1251	C	GLY	158	36.705	63.477	6.704	1.00 47.94	C

ATOM	1252	O	GLY	158	36.368	62.799	5.734	1.00	47.94	O
ATOM	1253	N	MET	159	36.644	64.821	6.696	1.00	72.65	N
ATOM	1254	CA	MET	159	36.081	65.499	5.568	1.00	72.65	C
ATOM	1255	CB	MET	159	36.049	67.027	5.734	1.00	72.65	C
ATOM	1256	CG	MET	159	35.216	67.754	4.673	1.00	72.65	C
ATOM	1257	SD	MET	159	35.929	67.796	3.000	1.00	72.65	S
ATOM	1258	CE	MET	159	37.220	69.007	3.406	1.00	72.65	C
ATOM	1259	C	MET	159	36.886	65.215	4.345	1.00	72.65	C
ATOM	1260	O	MET	159	36.318	64.822	3.333	1.00	72.65	O
ATOM	1261	N	PHE	160	38.228	65.311	4.437	1.00	133.42	N
ATOM	1262	CA	PHE	160	39.112	65.213	3.302	1.00	133.42	C
ATOM	1263	CB	PHE	160	40.585	65.119	3.739	1.00	133.42	C
ATOM	1264	CG	PHE	160	41.456	65.359	2.557	1.00	133.42	C
ATOM	1265	CD1	PHE	160	41.668	64.373	1.622	1.00	133.42	C
ATOM	1266	CD2	PHE	160	42.077	66.576	2.398	1.00	133.42	C
ATOM	1267	CE1	PHE	160	42.478	64.605	0.536	1.00	133.42	C
ATOM	1268	CE2	PHE	160	42.889	66.812	1.314	1.00	133.42	C
ATOM	1269	CZ	PHE	160	43.089	65.825	0.379	1.00	133.42	C
ATOM	1270	C	PHE	160	38.756	63.942	2.618	1.00	133.42	C
ATOM	1271	O	PHE	160	38.485	63.920	1.418	1.00	133.42	O
ATOM	1272	N	PHE	161	38.617	62.875	3.417	1.00	109.03	N
ATOM	1273	CA	PHE	161	38.224	61.612	2.886	1.00	109.03	C
ATOM	1274	CB	PHE	161	38.059	60.588	4.028	1.00	109.03	C
ATOM	1275	CG	PHE	161	37.045	59.553	3.688	1.00	109.03	C
ATOM	1276	CD1	PHE	161	37.181	58.712	2.612	1.00	109.03	C
ATOM	1277	CD2	PHE	161	35.951	59.406	4.512	1.00	109.03	C
ATOM	1278	CE1	PHE	161	36.214	57.768	2.356	1.00	109.03	C
ATOM	1279	CE2	PHE	161	34.986	58.463	4.259	1.00	109.03	C
ATOM	1280	CZ	PHE	161	35.115	57.639	3.170	1.00	109.03	C
ATOM	1281	C	PHE	161	36.937	61.754	2.116	1.00	109.03	C
ATOM	1282	O	PHE	161	36.890	61.455	0.926	1.00	109.03	O
ATOM	1283	N	GLN	162	35.869	62.290	2.725	1.00	133.29	N
ATOM	1284	CA	GLN	162	34.601	62.349	2.042	1.00	133.29	C
ATOM	1285	CB	GLN	162	33.466	62.876	2.935	1.00	133.29	C
ATOM	1286	CG	GLN	162	32.085	62.768	2.286	1.00	133.29	C
ATOM	1287	CD	GLN	162	31.682	61.299	2.290	1.00	133.29	C
ATOM	1288	OE1	GLN	162	31.842	60.595	1.295	1.00	133.29	O
ATOM	1289	NE2	GLN	162	31.150	60.819	3.447	1.00	133.29	N
ATOM	1290	C	GLN	162	34.682	63.245	0.844	1.00	133.29	C
ATOM	1291	O	GLN	162	34.076	62.958	-0.188	1.00	133.29	O
ATOM	1292	N	SER	163	35.444	64.351	0.937	1.00	50.06	N
ATOM	1293	CA	SER	163	35.494	65.303	-0.131	1.00	50.06	C
ATOM	1294	CB	SER	163	36.480	66.458	0.113	1.00	50.06	C
ATOM	1295	OG	SER	163	37.819	65.991	0.038	1.00	50.06	O
ATOM	1296	C	SER	163	35.941	64.579	-1.360	1.00	50.06	C
ATOM	1297	O	SER	163	35.503	64.893	-2.463	1.00	50.06	O
ATOM	1298	N	MET	164	36.871	63.623	-1.195	1.00	98.26	N
ATOM	1299	CA	MET	164	37.389	62.819	-2.270	1.00	98.26	C
ATOM	1300	CB	MET	164	38.703	62.124	-1.892	1.00	98.26	C
ATOM	1301	CG	MET	164	39.823	63.135	-1.656	1.00	98.26	C
ATOM	1302	SD	MET	164	40.170	64.185	-3.099	1.00	98.26	S
ATOM	1303	CE	MET	164	41.552	65.070	-2.326	1.00	98.26	C
ATOM	1304	C	MET	164	36.431	61.774	-2.758	1.00	98.26	C
ATOM	1305	O	MET	164	36.406	61.461	-3.946	1.00	98.26	O
ATOM	1306	N	ALA	165	35.647	61.155	-1.857	1.00	43.13	N
ATOM	1307	CA	ALA	165	34.758	60.123	-2.308	1.00	43.13	C
ATOM	1308	CB	ALA	165	33.938	59.497	-1.166	1.00	43.13	C
ATOM	1309	C	ALA	165	33.810	60.780	-3.243	1.00	43.13	C
ATOM	1310	O	ALA	165	33.448	60.216	-4.271	1.00	43.13	O
ATOM	1311	N	THR	166	33.375	61.996	-2.875	1.00	85.55	N
ATOM	1312	CA	THR	166	32.467	62.794	-3.643	1.00	85.55	C
ATOM	1313	CB	THR	166	32.274	64.135	-2.998	1.00	85.55	C
ATOM	1314	OG1	THR	166	31.833	64.024	-1.656	1.00	85.55	O
ATOM	1315	CG2	THR	166	31.274	64.928	-3.836	1.00	85.55	C
ATOM	1316	C	THR	166	33.106	63.170	-4.937	1.00	85.55	C
ATOM	1317	O	THR	166	32.594	62.898	-6.021	1.00	85.55	O
ATOM	1318	N	PHE	167	34.290	63.796	-4.830	1.00	116.51	N
ATOM	1319	CA	PHE	167	34.902	64.377	-5.982	1.00	116.51	C
ATOM	1320	CB	PHE	167	36.230	65.069	-5.629	1.00	116.51	C
ATOM	1321	CG	PHE	167	36.587	65.972	-6.756	1.00	116.51	C
ATOM	1322	CD1	PHE	167	37.299	65.520	-7.842	1.00	116.51	C
ATOM	1323	CD2	PHE	167	36.197	67.291	-6.715	1.00	116.51	C
ATOM	1324	CE1	PHE	167	37.616	66.375	-8.872	1.00	116.51	C
ATOM	1325	CE2	PHE	167	36.512	68.149	-7.741	1.00	116.51	C

ATOM	1326	CZ	PHE	167	37.224	67.691	-8.824	1.00116.51	C
ATOM	1327	C	PHE	167	35.179	63.305	-6.982	1.00116.51	C
ATOM	1328	O	PHE	167	34.691	63.351	-8.108	1.00116.51	O
ATOM	1329	N	PHE	168	35.929	62.274	-6.563	1.00 85.95	N
ATOM	1330	CA	PHE	168	36.312	61.199	-7.426	1.00 85.95	C
ATOM	1331	CB	PHE	168	37.354	60.251	-6.817	1.00 85.95	C
ATOM	1332	CG	PHE	168	38.641	60.992	-6.869	1.00 85.95	C
ATOM	1333	CD1	PHE	168	39.351	61.031	-8.045	1.00 85.95	C
ATOM	1334	CD2	PHE	168	39.131	61.646	-5.761	1.00 85.95	C
ATOM	1335	CE1	PHE	168	40.541	61.712	-8.118	1.00 85.95	C
ATOM	1336	CE2	PHE	168	40.321	62.329	-5.830	1.00 85.95	C
ATOM	1337	CZ	PHE	168	41.027	62.362	-7.009	1.00 85.95	C
ATOM	1338	C	PHE	168	35.129	60.388	-7.819	1.00 85.95	C
ATOM	1339	O	PHE	168	35.112	59.880	-8.930	1.00 85.95	O
ATOM	1340	N	THR	169	34.132	60.169	-6.940	1.00147.64	N
ATOM	1341	CA	THR	169	33.051	59.349	-7.419	1.00147.64	C
ATOM	1342	CB	THR	169	31.944	59.036	-6.420	1.00147.64	C
ATOM	1343	OG1	THR	169	30.972	58.220	-7.057	1.00147.64	O
ATOM	1344	CG2	THR	169	31.242	60.291	-5.857	1.00147.64	C
ATOM	1345	C	THR	169	32.403	60.008	-8.593	1.00147.64	C
ATOM	1346	O	THR	169	32.463	59.496	-9.709	1.00147.64	O
ATOM	1347	N	GLY	170	31.912	61.240	-8.393	1.00 56.00	N
ATOM	1348	CA	GLY	170	31.157	61.940	-9.374	1.00 56.00	C
ATOM	1349	C	GLY	170	32.018	62.057	-10.574	1.00 56.00	C
ATOM	1350	O	GLY	170	31.516	62.219	-11.680	1.00 56.00	O
ATOM	1351	N	PHE	171	33.340	62.153	-10.370	1.00117.03	N
ATOM	1352	CA	PHE	171	34.208	62.208	-11.504	1.00117.03	C
ATOM	1353	CB	PHE	171	35.605	62.730	-11.127	1.00117.03	C
ATOM	1354	CG	PHE	171	36.444	62.763	-12.357	1.00117.03	C
ATOM	1355	CD1	PHE	171	36.261	63.752	-13.296	1.00117.03	C
ATOM	1356	CD2	PHE	171	37.428	61.824	-12.565	1.00117.03	C
ATOM	1357	CE1	PHE	171	37.034	63.794	-14.433	1.00117.03	C
ATOM	1358	CE2	PHE	171	38.204	61.862	-13.700	1.00117.03	C
ATOM	1359	CZ	PHE	171	38.008	62.848	-14.638	1.00117.03	C
ATOM	1360	C	PHE	171	34.385	60.885	-12.182	1.00117.03	C
ATOM	1361	O	PHE	171	33.834	60.653	-13.248	1.00117.03	O
ATOM	1362	N	ILE	172	35.004	59.917	-11.487	1.00165.37	N
ATOM	1363	CA	ILE	172	35.463	58.692	-12.068	1.00165.37	C
ATOM	1364	CB	ILE	172	36.130	57.810	-11.031	1.00165.37	C
ATOM	1365	CG1	ILE	172	37.011	56.755	-11.708	1.00165.37	C
ATOM	1366	CG2	ILE	172	35.095	57.254	-10.039	1.00165.37	C
ATOM	1367	CD1	ILE	172	38.281	57.367	-12.296	1.00165.37	C
ATOM	1368	C	ILE	172	34.296	58.022	-12.725	1.00165.37	C
ATOM	1369	O	ILE	172	34.352	57.701	-13.910	1.00165.37	O
ATOM	1370	N	VAL	173	33.180	57.836	-12.006	1.00 61.19	N
ATOM	1371	CA	VAL	173	32.021	57.269	-12.624	1.00 61.19	C
ATOM	1372	CB	VAL	173	31.003	56.826	-11.615	1.00 61.19	C
ATOM	1373	CG1	VAL	173	29.757	56.316	-12.359	1.00 61.19	C
ATOM	1374	CG2	VAL	173	31.655	55.785	-10.688	1.00 61.19	C
ATOM	1375	C	VAL	173	31.364	58.293	-13.490	1.00 61.19	C
ATOM	1376	O	VAL	173	31.013	58.036	-14.638	1.00 61.19	O
ATOM	1377	N	GLY	174	31.260	59.523	-12.961	1.00 88.82	N
ATOM	1378	CA	GLY	174	30.485	60.568	-13.556	1.00 88.82	C
ATOM	1379	C	GLY	174	30.933	60.875	-14.943	1.00 88.82	C
ATOM	1380	O	GLY	174	30.158	61.443	-15.697	1.00 88.82	O
ATOM	1381	N	PHE	175	32.224	60.785	-15.267	1.00128.80	N
ATOM	1382	CA	PHE	175	32.654	60.869	-16.632	1.00128.80	C
ATOM	1383	CB	PHE	175	33.968	61.660	-16.734	1.00128.80	C
ATOM	1384	CG	PHE	175	34.426	61.673	-18.150	1.00128.80	C
ATOM	1385	CD1	PHE	175	33.842	62.512	-19.070	1.00128.80	C
ATOM	1386	CD2	PHE	175	35.458	60.855	-18.550	1.00128.80	C
ATOM	1387	CE1	PHE	175	34.274	62.523	-20.376	1.00128.80	C
ATOM	1388	CE2	PHE	175	35.893	60.862	-19.854	1.00128.80	C
ATOM	1389	CZ	PHE	175	35.299	61.697	-20.770	1.00128.80	C
ATOM	1390	C	PHE	175	32.876	59.535	-17.298	1.00128.80	C
ATOM	1391	O	PHE	175	32.319	59.222	-18.348	1.00128.80	O
ATOM	1392	N	THR	176	33.659	58.665	-16.626	1.00 57.15	N
ATOM	1393	CA	THR	176	34.218	57.503	-17.261	1.00 57.15	C
ATOM	1394	CB	THR	176	35.071	56.677	-16.346	1.00 57.15	C
ATOM	1395	OG1	THR	176	36.140	57.458	-15.832	1.00 57.15	O
ATOM	1396	CG2	THR	176	35.618	55.480	-17.141	1.00 57.15	C
ATOM	1397	C	THR	176	33.164	56.601	-17.794	1.00 57.15	C
ATOM	1398	O	THR	176	33.265	56.138	-18.929	1.00 57.15	O
ATOM	1399	N	ARG	177	32.113	56.321	-17.012	1.00152.36	N

ATOM	1400	CA	ARG	177	31.189	55.369	-17.542	1.00152.36	C
ATOM	1401	CB	ARG	177	30.650	54.384	-16.491	1.00152.36	C
ATOM	1402	CG	ARG	177	31.658	53.293	-16.126	1.00152.36	C
ATOM	1403	CD	ARG	177	32.937	53.824	-15.477	1.00152.36	C
ATOM	1404	NE	ARG	177	33.808	52.650	-15.188	1.00152.36	N
ATOM	1405	CZ	ARG	177	34.635	52.163	-16.158	1.00152.36	C
ATOM	1406	NH1	ARG	177	34.665	52.754	-17.388	1.00152.36	N
ATOM	1407	NH2	ARG	177	35.438	51.089	-15.898	1.00152.36	N
ATOM	1408	C	ARG	177	30.029	56.058	-18.153	1.00152.36	C
ATOM	1409	O	ARG	177	29.190	56.613	-17.451	1.00152.36	O
ATOM	1410	N	GLY	178	29.900	55.943	-19.487	1.00 61.37	N
ATOM	1411	CA	GLY	178	28.820	56.590	-20.166	1.00 61.37	C
ATOM	1412	C	GLY	178	29.322	57.328	-21.357	1.00 61.37	C
ATOM	1413	O	GLY	178	28.702	57.207	-22.413	1.00 61.37	O
ATOM	1414	N	TRP	179	30.468	58.039	-21.242	1.00 97.38	N
ATOM	1415	CA	TRP	179	31.010	58.800	-22.339	1.00 97.38	C
ATOM	1416	CB	TRP	179	31.678	57.898	-23.389	1.00 97.38	C
ATOM	1417	CG	TRP	179	32.832	57.111	-22.811	1.00 97.38	C
ATOM	1418	CD2	TRP	179	33.463	55.993	-23.455	1.00 97.38	C
ATOM	1419	CD1	TRP	179	33.451	57.258	-21.604	1.00 97.38	C
ATOM	1420	NE1	TRP	179	34.423	56.299	-21.452	1.00 97.38	N
ATOM	1421	CE2	TRP	179	34.442	55.513	-22.584	1.00 97.38	C
ATOM	1422	CE3	TRP	179	33.238	55.408	-24.668	1.00 97.38	C
ATOM	1423	CZ2	TRP	179	35.215	54.436	-22.914	1.00 97.38	C
ATOM	1424	CZ3	TRP	179	34.027	54.329	-25.000	1.00 97.38	C
ATOM	1425	CH2	TRP	179	34.995	53.851	-24.141	1.00 97.38	C
ATOM	1426	C	TRP	179	29.881	59.564	-22.958	1.00 97.38	C
ATOM	1427	O	TRP	179	29.428	59.226	-24.048	1.00 97.38	O
ATOM	1428	N	LYS	180	29.389	60.584	-22.228	1.00204.48	N
ATOM	1429	CA	LYS	180	28.273	61.441	-22.535	1.00204.48	C
ATOM	1430	CB	LYS	180	28.124	61.703	-24.041	1.00204.48	C
ATOM	1431	CG	LYS	180	27.241	60.685	-24.761	1.00204.48	C
ATOM	1432	CD	LYS	180	27.305	60.828	-26.276	1.00204.48	C
ATOM	1433	CE	LYS	180	28.550	60.157	-26.860	1.00204.48	C
ATOM	1434	NZ	LYS	180	29.772	60.766	-26.286	1.00204.48	N
ATOM	1435	C	LYS	180	26.995	60.800	-22.055	1.00204.48	C
ATOM	1436	O	LYS	180	25.972	61.476	-21.955	1.00204.48	O
ATOM	1437	N	LEU	181	26.993	59.479	-21.777	1.00152.14	N
ATOM	1438	CA	LEU	181	25.885	58.841	-21.114	1.00152.14	C
ATOM	1439	CB	LEU	181	25.894	57.308	-21.288	1.00152.14	C
ATOM	1440	CG	LEU	181	24.830	56.544	-20.471	1.00152.14	C
ATOM	1441	CD1	LEU	181	25.222	56.413	-18.990	1.00152.14	C
ATOM	1442	CD2	LEU	181	23.445	57.181	-20.637	1.00152.14	C
ATOM	1443	C	LEU	181	26.033	59.159	-19.678	1.00152.14	C
ATOM	1444	O	LEU	181	25.082	59.450	-18.958	1.00152.14	O
ATOM	1445	N	THR	182	27.298	59.109	-19.245	1.00152.14	N
ATOM	1446	CA	THR	182	27.688	59.419	-17.912	1.00152.14	C
ATOM	1447	CB	THR	182	29.153	59.285	-17.718	1.00152.14	C
ATOM	1448	OG1	THR	182	29.391	59.072	-16.342	1.00152.14	O
ATOM	1449	CG2	THR	182	29.914	60.507	-18.254	1.00152.14	C
ATOM	1450	C	THR	182	27.359	60.856	-17.790	1.00152.14	C
ATOM	1451	O	THR	182	27.185	61.384	-16.692	1.00152.14	O
ATOM	1452	N	LEU	183	27.402	61.520	-18.960	1.00189.07	N
ATOM	1453	CA	LEU	183	27.049	62.883	-19.167	1.00189.07	C
ATOM	1454	CB	LEU	183	27.473	63.451	-20.532	1.00189.07	C
ATOM	1455	CG	LEU	183	28.965	63.813	-20.613	1.00189.07	C
ATOM	1456	CD1	LEU	183	29.278	65.009	-19.702	1.00189.07	C
ATOM	1457	CD2	LEU	183	29.869	62.608	-20.322	1.00189.07	C
ATOM	1458	C	LEU	183	25.579	63.014	-19.072	1.00189.07	C
ATOM	1459	O	LEU	183	25.091	64.070	-18.700	1.00189.07	O
ATOM	1460	N	VAL	184	24.820	61.983	-19.474	1.00 55.89	N
ATOM	1461	CA	VAL	184	23.406	62.065	-19.282	1.00 55.89	C
ATOM	1462	CB	VAL	184	22.686	60.800	-19.638	1.00 55.89	C
ATOM	1463	CG1	VAL	184	21.208	60.950	-19.238	1.00 55.89	C
ATOM	1464	CG2	VAL	184	22.904	60.513	-21.133	1.00 55.89	C
ATOM	1465	C	VAL	184	23.284	62.237	-17.811	1.00 55.89	C
ATOM	1466	O	VAL	184	22.495	63.045	-17.325	1.00 55.89	O
ATOM	1467	N	ILE	185	24.130	61.499	-17.068	1.00135.81	N
ATOM	1468	CA	ILE	185	24.112	61.632	-15.644	1.00135.81	C
ATOM	1469	CB	ILE	185	25.144	60.812	-14.916	1.00135.81	C
ATOM	1470	CG1	ILE	185	24.890	59.302	-15.022	1.00135.81	C
ATOM	1471	CG2	ILE	185	25.183	61.323	-13.466	1.00135.81	C
ATOM	1472	CD1	ILE	185	25.305	58.679	-16.346	1.00135.81	C
ATOM	1473	C	ILE	185	24.465	63.030	-15.294	1.00135.81	C

ATOM	1474	O	ILE	185	23.641	63.739	-14.727	1.00135.81	O
ATOM	1475	N	LEU	186	25.638	63.502	-15.759	1.00 71.95	N
ATOM	1476	CA	LEU	186	26.148	64.778	-15.345	1.00 71.95	C
ATOM	1477	CB	LEU	186	27.436	65.174	-16.089	1.00 71.95	C
ATOM	1478	CG	LEU	186	28.637	64.264	-15.774	1.00 71.95	C
ATOM	1479	CD1	LEU	186	29.892	64.711	-16.539	1.00 71.95	C
ATOM	1480	CD2	LEU	186	28.868	64.147	-14.260	1.00 71.95	C
ATOM	1481	C	LEU	186	25.119	65.817	-15.654	1.00 71.95	C
ATOM	1482	O	LEU	186	24.892	66.729	-14.861	1.00 71.95	O
ATOM	1483	N	ALA	187	24.481	65.729	-16.830	1.00 91.28	N
ATOM	1484	CA	ALA	187	23.514	66.726	-17.152	1.00 91.28	C
ATOM	1485	CB	ALA	187	23.043	66.637	-18.612	1.00 91.28	C
ATOM	1486	C	ALA	187	22.286	66.655	-16.297	1.00 91.28	C
ATOM	1487	O	ALA	187	22.109	67.472	-15.403	1.00 91.28	O
ATOM	1488	N	ILE	188	21.464	65.599	-16.433	1.00123.71	N
ATOM	1489	CA	ILE	188	20.226	65.632	-15.711	1.00123.71	C
ATOM	1490	CB	ILE	188	19.268	64.557	-16.178	1.00123.71	C
ATOM	1491	CG1	ILE	188	19.878	63.140	-16.153	1.00123.71	C
ATOM	1492	CG2	ILE	188	18.769	64.974	-17.570	1.00123.71	C
ATOM	1493	CD1	ILE	188	19.898	62.431	-14.802	1.00123.71	C
ATOM	1494	C	ILE	188	20.495	65.579	-14.246	1.00123.71	C
ATOM	1495	O	ILE	188	20.037	66.438	-13.494	1.00123.71	O
ATOM	1496	N	SER	189	21.328	64.626	-13.808	1.00 89.10	N
ATOM	1497	CA	SER	189	21.527	64.480	-12.402	1.00 89.10	C
ATOM	1498	CB	SER	189	22.330	63.218	-12.019	1.00 89.10	C
ATOM	1499	OG	SER	189	21.616	62.054	-12.410	1.00 89.10	O
ATOM	1500	C	SER	189	22.122	65.732	-11.824	1.00 89.10	C
ATOM	1501	O	SER	189	21.419	66.379	-11.053	1.00 89.10	O
ATOM	1502	N	PRO	190	23.306	66.194	-12.171	1.00 94.15	N
ATOM	1503	CA	PRO	190	23.775	67.386	-11.517	1.00 94.15	C
ATOM	1504	CD	PRO	190	24.425	65.314	-12.483	1.00 94.15	C
ATOM	1505	CB	PRO	190	25.226	67.554	-11.953	1.00 94.15	C
ATOM	1506	CG	PRO	190	25.699	66.097	-12.114	1.00 94.15	C
ATOM	1507	C	PRO	190	22.886	68.579	-11.711	1.00 94.15	C
ATOM	1508	O	PRO	190	22.954	69.483	-10.880	1.00 94.15	O
ATOM	1509	N	VAL	191	22.077	68.633	-12.789	1.00 50.54	N
ATOM	1510	CA	VAL	191	21.170	69.740	-12.943	1.00 50.54	C
ATOM	1511	CB	VAL	191	20.510	69.809	-14.289	1.00 50.54	C
ATOM	1512	CG1	VAL	191	19.395	70.867	-14.228	1.00 50.54	C
ATOM	1513	CG2	VAL	191	21.588	70.156	-15.330	1.00 50.54	C
ATOM	1514	C	VAL	191	20.091	69.672	-11.906	1.00 50.54	C
ATOM	1515	O	VAL	191	19.790	70.673	-11.257	1.00 50.54	O
ATOM	1516	N	LEU	192	19.479	68.486	-11.707	1.00100.40	N
ATOM	1517	CA	LEU	192	18.438	68.393	-10.723	1.00100.40	C
ATOM	1518	CB	LEU	192	17.791	66.997	-10.620	1.00100.40	C
ATOM	1519	CG	LEU	192	16.753	66.676	-11.718	1.00100.40	C
ATOM	1520	CD1	LEU	192	15.507	67.562	-11.570	1.00100.40	C
ATOM	1521	CD2	LEU	192	17.343	66.746	-13.130	1.00100.40	C
ATOM	1522	C	LEU	192	19.060	68.704	-9.406	1.00100.40	C
ATOM	1523	O	LEU	192	18.526	69.484	-8.620	1.00100.40	O
ATOM	1524	N	GLY	193	20.265	68.158	-9.179	1.00 45.98	N
ATOM	1525	CA	GLY	193	20.949	68.324	-7.934	1.00 45.98	C
ATOM	1526	C	GLY	193	21.097	69.786	-7.707	1.00 45.98	C
ATOM	1527	O	GLY	193	21.131	70.240	-6.566	1.00 45.98	O
ATOM	1528	N	LEU	194	21.248	70.553	-8.800	1.00138.86	N
ATOM	1529	CA	LEU	194	21.393	71.971	-8.693	1.00138.86	C
ATOM	1530	CB	LEU	194	21.671	72.616	-10.063	1.00138.86	C
ATOM	1531	CG	LEU	194	21.846	74.144	-10.031	1.00138.86	C
ATOM	1532	CD1	LEU	194	20.510	74.892	-9.876	1.00138.86	C
ATOM	1533	CD2	LEU	194	22.876	74.541	-8.962	1.00138.86	C
ATOM	1534	C	LEU	194	20.132	72.554	-8.131	1.00138.86	C
ATOM	1535	O	LEU	194	20.180	73.361	-7.206	1.00138.86	O
ATOM	1536	N	SER	195	18.958	72.144	-8.648	1.00 38.18	N
ATOM	1537	CA	SER	195	17.735	72.727	-8.168	1.00 38.18	C
ATOM	1538	CB	SER	195	16.483	72.178	-8.879	1.00 38.18	C
ATOM	1539	OG	SER	195	16.302	70.804	-8.570	1.00 38.18	O
ATOM	1540	C	SER	195	17.607	72.393	-6.718	1.00 38.18	C
ATOM	1541	O	SER	195	17.160	73.213	-5.918	1.00 38.18	O
ATOM	1542	N	ALA	196	17.993	71.161	-6.342	1.00 47.57	N
ATOM	1543	CA	ALA	196	17.881	70.753	-4.975	1.00 47.57	C
ATOM	1544	CB	ALA	196	18.271	69.281	-4.756	1.00 47.57	C
ATOM	1545	C	ALA	196	18.791	71.582	-4.122	1.00 47.57	C
ATOM	1546	O	ALA	196	18.387	72.093	-3.081	1.00 47.57	O
ATOM	1547	N	ALA	197	20.047	71.776	-4.555	1.00 50.33	N

ATOM	1548	CA	ALA	197	20.964	72.476	-3.706	1.00	50.33	C
ATOM	1549	CB	ALA	197	22.371	72.589	-4.316	1.00	50.33	C
ATOM	1550	C	ALA	197	20.459	73.866	-3.483	1.00	50.33	C
ATOM	1551	O	ALA	197	20.432	74.337	-2.348	1.00	50.33	O
ATOM	1552	N	VAL	198	20.038	74.558	-4.559	1.00	56.78	N
ATOM	1553	CA	VAL	198	19.615	75.925	-4.446	1.00	56.78	C
ATOM	1554	CB	VAL	198	19.330	76.553	-5.778	1.00	56.78	C
ATOM	1555	CG1	VAL	198	18.770	77.967	-5.542	1.00	56.78	C
ATOM	1556	CG2	VAL	198	20.612	76.512	-6.626	1.00	56.78	C
ATOM	1557	C	VAL	198	18.357	76.070	-3.650	1.00	56.78	C
ATOM	1558	O	VAL	198	18.346	76.735	-2.620	1.00	56.78	O
ATOM	1559	N	TRP	199	17.264	75.409	-4.068	1.00	78.57	N
ATOM	1560	CA	TRP	199	16.006	75.671	-3.426	1.00	78.57	C
ATOM	1561	CB	TRP	199	14.823	74.897	-4.048	1.00	78.57	C
ATOM	1562	CG	TRP	199	13.445	75.393	-3.645	1.00	78.57	C
ATOM	1563	CD2	TRP	199	12.743	75.062	-2.433	1.00	78.57	C
ATOM	1564	CD1	TRP	199	12.626	76.233	-4.342	1.00	78.57	C
ATOM	1565	NE1	TRP	199	11.461	76.445	-3.646	1.00	78.57	N
ATOM	1566	CE2	TRP	199	11.519	75.732	-2.469	1.00	78.57	C
ATOM	1567	CE3	TRP	199	13.085	74.269	-1.377	1.00	78.57	C
ATOM	1568	CZ2	TRP	199	10.619	75.617	-1.448	1.00	78.57	C
ATOM	1569	CZ3	TRP	199	12.175	74.156	-0.349	1.00	78.57	C
ATOM	1570	CH2	TRP	199	10.965	74.817	-0.383	1.00	78.57	C
ATOM	1571	C	TRP	199	16.100	75.258	-1.992	1.00	78.57	C
ATOM	1572	O	TRP	199	15.715	76.005	-1.097	1.00	78.57	O
ATOM	1573	N	ALA	200	16.629	74.051	-1.725	1.00	56.88	N
ATOM	1574	CA	ALA	200	16.663	73.598	-0.369	1.00	56.88	C
ATOM	1575	CB	ALA	200	17.233	72.177	-0.242	1.00	56.88	C
ATOM	1576	C	ALA	200	17.528	74.503	0.456	1.00	56.88	C
ATOM	1577	O	ALA	200	17.119	74.978	1.513	1.00	56.88	O
ATOM	1578	N	LYS	201	18.741	74.812	-0.026	1.00	104.26	N
ATOM	1579	CA	LYS	201	19.653	75.601	0.748	1.00	104.26	C
ATOM	1580	CB	LYS	201	21.057	75.679	0.126	1.00	104.26	C
ATOM	1581	CG	LYS	201	21.738	74.309	0.060	1.00	104.26	C
ATOM	1582	CD	LYS	201	21.812	73.596	1.412	1.00	104.26	C
ATOM	1583	CE	LYS	201	22.273	72.140	1.311	1.00	104.26	C
ATOM	1584	NZ	LYS	201	22.286	71.519	2.654	1.00	104.26	N
ATOM	1585	C	LYS	201	19.111	76.980	0.907	1.00	104.26	C
ATOM	1586	O	LYS	201	19.312	77.610	1.944	1.00	104.26	O
ATOM	1587	N	ILE	202	18.415	77.498	-0.122	1.00	118.83	N
ATOM	1588	CA	ILE	202	17.944	78.843	-0.005	1.00	118.83	C
ATOM	1589	CB	ILE	202	17.293	79.415	-1.238	1.00	118.83	C
ATOM	1590	CG1	ILE	202	16.008	78.672	-1.630	1.00	118.83	C
ATOM	1591	CG2	ILE	202	18.356	79.462	-2.343	1.00	118.83	C
ATOM	1592	CD1	ILE	202	15.190	79.395	-2.700	1.00	118.83	C
ATOM	1593	C	ILE	202	16.967	78.893	1.114	1.00	118.83	C
ATOM	1594	O	ILE	202	17.001	79.794	1.947	1.00	118.83	O
ATOM	1595	N	LEU	203	16.083	77.893	1.172	1.00	168.40	N
ATOM	1596	CA	LEU	203	15.084	77.842	2.179	1.00	168.40	C
ATOM	1597	CB	LEU	203	14.165	76.642	1.931	1.00	168.40	C
ATOM	1598	CG	LEU	203	12.954	76.539	2.857	1.00	168.40	C
ATOM	1599	CD1	LEU	203	12.086	77.808	2.799	1.00	168.40	C
ATOM	1600	CD2	LEU	203	12.158	75.280	2.499	1.00	168.40	C
ATOM	1601	C	LEU	203	15.786	77.703	3.491	1.00	168.40	C
ATOM	1602	O	LEU	203	15.395	78.326	4.471	1.00	168.40	O
ATOM	1603	N	SER	204	16.874	76.911	3.540	1.00	36.94	N
ATOM	1604	CA	SER	204	17.569	76.686	4.779	1.00	36.94	C
ATOM	1605	CB	SER	204	18.825	75.813	4.608	1.00	36.94	C
ATOM	1606	OG	SER	204	18.463	74.510	4.172	1.00	36.94	O
ATOM	1607	C	SER	204	18.008	78.003	5.339	1.00	36.94	C
ATOM	1608	O	SER	204	17.852	78.266	6.530	1.00	36.94	O
ATOM	1609	N	SER	205	18.572	78.882	4.496	1.00	71.13	N
ATOM	1610	CA	SER	205	18.987	80.161	4.991	1.00	71.13	C
ATOM	1611	CB	SER	205	19.623	81.028	3.900	1.00	71.13	C
ATOM	1612	OG	SER	205	19.800	82.344	4.393	1.00	71.13	O
ATOM	1613	C	SER	205	17.753	80.865	5.441	1.00	71.13	C
ATOM	1614	O	SER	205	17.738	81.557	6.457	1.00	71.13	O
ATOM	1615	N	PHE	206	16.662	80.646	4.695	1.00	66.59	N
ATOM	1616	CA	PHE	206	15.410	81.284	4.953	1.00	66.59	C
ATOM	1617	CB	PHE	206	14.322	80.858	3.950	1.00	66.59	C
ATOM	1618	CG	PHE	206	13.070	81.610	4.252	1.00	66.59	C
ATOM	1619	CD1	PHE	206	12.976	82.949	3.946	1.00	66.59	C
ATOM	1620	CD2	PHE	206	11.983	80.981	4.814	1.00	66.59	C
ATOM	1621	CE1	PHE	206	11.826	83.652	4.214	1.00	66.59	C

ATOM	1622	CE2	PHE	206	10.828	81.678	5.083	1.00	66.59	C
ATOM	1623	CZ	PHE	206	10.749	83.018	4.785	1.00	66.59	C
ATOM	1624	C	PHE	206	14.966	80.893	6.328	1.00	66.59	C
ATOM	1625	O	PHE	206	14.412	81.715	7.055	1.00	66.59	O
ATOM	1626	N	THR	207	15.182	79.623	6.721	1.00	115.20	N
ATOM	1627	CA	THR	207	14.717	79.192	8.005	1.00	115.20	C
ATOM	1628	CB	THR	207	14.841	77.710	8.260	1.00	115.20	C
ATOM	1629	OG1	THR	207	14.015	77.343	9.355	1.00	115.20	O
ATOM	1630	CG2	THR	207	16.297	77.343	8.584	1.00	115.20	C
ATOM	1631	C	THR	207	15.454	79.929	9.080	1.00	115.20	C
ATOM	1632	O	THR	207	14.848	80.381	10.050	1.00	115.20	O
ATOM	1633	N	ASP	208	16.781	80.102	8.925	1.00	75.06	N
ATOM	1634	CA	ASP	208	17.543	80.735	9.963	1.00	75.06	C
ATOM	1635	CB	ASP	208	19.044	80.819	9.632	1.00	75.06	C
ATOM	1636	CG	ASP	208	19.807	81.099	10.921	1.00	75.06	C
ATOM	1637	OD1	ASP	208	19.207	81.692	11.856	1.00	75.06	O
ATOM	1638	OD2	ASP	208	21.006	80.716	10.986	1.00	75.06	O
ATOM	1639	C	ASP	208	17.016	82.124	10.134	1.00	75.06	C
ATOM	1640	O	ASP	208	16.794	82.582	11.254	1.00	75.06	O
ATOM	1641	N	LYS	209	16.744	82.816	9.013	1.00	98.60	N
ATOM	1642	CA	LYS	209	16.248	84.157	9.097	1.00	98.60	C
ATOM	1643	CB	LYS	209	15.837	84.752	7.749	1.00	98.60	C
ATOM	1644	CG	LYS	209	15.011	86.013	7.983	1.00	98.60	C
ATOM	1645	CD	LYS	209	14.520	86.721	6.731	1.00	98.60	C
ATOM	1646	CE	LYS	209	13.338	87.628	7.065	1.00	98.60	C
ATOM	1647	NZ	LYS	209	12.247	86.823	7.662	1.00	98.60	N
ATOM	1648	C	LYS	209	14.979	84.118	9.880	1.00	98.60	C
ATOM	1649	O	LYS	209	14.712	85.000	10.695	1.00	98.60	O
ATOM	1650	N	GLU	210	14.156	83.080	9.653	1.00	95.08	N
ATOM	1651	CA	GLU	210	12.905	83.010	10.343	1.00	95.08	C
ATOM	1652	CB	GLU	210	12.069	81.771	9.981	1.00	95.08	C
ATOM	1653	CG	GLU	210	11.355	81.902	8.637	1.00	95.08	C
ATOM	1654	CD	GLU	210	10.368	83.055	8.769	1.00	95.08	C
ATOM	1655	OE1	GLU	210	10.833	84.204	8.994	1.00	95.08	O
ATOM	1656	OE2	GLU	210	9.139	82.802	8.655	1.00	95.08	O
ATOM	1657	C	GLU	210	13.186	82.962	11.807	1.00	95.08	C
ATOM	1658	O	GLU	210	12.484	83.593	12.594	1.00	95.08	O
ATOM	1659	N	LEU	211	14.235	82.221	12.206	1.00	56.18	N
ATOM	1660	CA	LEU	211	14.580	82.076	13.591	1.00	56.18	C
ATOM	1661	CB	LEU	211	15.753	81.100	13.804	1.00	56.18	C
ATOM	1662	CG	LEU	211	15.392	79.633	13.503	1.00	56.18	C
ATOM	1663	CD1	LEU	211	16.589	78.695	13.727	1.00	56.18	C
ATOM	1664	CD2	LEU	211	14.161	79.202	14.315	1.00	56.18	C
ATOM	1665	C	LEU	211	14.965	83.404	14.187	1.00	56.18	C
ATOM	1666	O	LEU	211	14.606	83.697	15.326	1.00	56.18	O
ATOM	1667	N	LEU	212	15.711	84.245	13.440	1.00	124.63	N
ATOM	1668	CA	LEU	212	16.193	85.503	13.951	1.00	124.63	C
ATOM	1669	CB	LEU	212	17.097	86.225	12.925	1.00	124.63	C
ATOM	1670	CG	LEU	212	17.681	87.586	13.367	1.00	124.63	C
ATOM	1671	CD1	LEU	212	16.629	88.707	13.418	1.00	124.63	C
ATOM	1672	CD2	LEU	212	18.461	87.441	14.683	1.00	124.63	C
ATOM	1673	C	LEU	212	15.033	86.394	14.275	1.00	124.63	C
ATOM	1674	O	LEU	212	14.970	86.978	15.356	1.00	124.63	O
ATOM	1675	N	ALA	213	14.059	86.494	13.356	1.00	38.83	N
ATOM	1676	CA	ALA	213	12.925	87.346	13.582	1.00	38.83	C
ATOM	1677	CB	ALA	213	11.891	87.289	12.443	1.00	38.83	C
ATOM	1678	C	ALA	213	12.268	86.830	14.818	1.00	38.83	C
ATOM	1679	O	ALA	213	11.735	87.586	15.628	1.00	38.83	O
ATOM	1680	N	TYR	214	12.307	85.499	14.986	1.00	146.22	N
ATOM	1681	CA	TYR	214	11.734	84.836	16.115	1.00	146.22	C
ATOM	1682	CB	TYR	214	11.977	83.317	16.000	1.00	146.22	C
ATOM	1683	CG	TYR	214	11.761	82.612	17.291	1.00	146.22	C
ATOM	1684	CD1	TYR	214	10.528	82.125	17.638	1.00	146.22	C
ATOM	1685	CD2	TYR	214	12.816	82.426	18.153	1.00	146.22	C
ATOM	1686	CE1	TYR	214	10.358	81.469	18.833	1.00	146.22	C
ATOM	1687	CE2	TYR	214	12.650	81.770	19.349	1.00	146.22	C
ATOM	1688	CZ	TYR	214	11.413	81.289	19.692	1.00	146.22	C
ATOM	1689	OH	TYR	214	11.228	80.613	20.916	1.00	146.22	O
ATOM	1690	C	TYR	214	12.363	85.370	17.375	1.00	146.22	C
ATOM	1691	O	TYR	214	11.665	85.702	18.331	1.00	146.22	O
ATOM	1692	N	ALA	215	13.699	85.522	17.404	1.00	39.96	N
ATOM	1693	CA	ALA	215	14.379	85.958	18.598	1.00	39.96	C
ATOM	1694	CB	ALA	215	15.905	86.030	18.413	1.00	39.96	C
ATOM	1695	C	ALA	215	13.913	87.326	18.996	1.00	39.96	C

ATOM	1696	O	ALA	215	13.733	87.605	20.182	1.00	39.96	O
ATOM	1697	N	LYS	216	13.706	88.219	18.011	1.00	166.82	N
ATOM	1698	CA	LYS	216	13.305	89.573	18.282	1.00	166.82	C
ATOM	1699	CB	LYS	216	13.045	90.362	16.985	1.00	166.82	C
ATOM	1700	CG	LYS	216	14.263	90.554	16.075	1.00	166.82	C
ATOM	1701	CD	LYS	216	15.334	91.508	16.612	1.00	166.82	C
ATOM	1702	CE	LYS	216	16.125	90.980	17.810	1.00	166.82	C
ATOM	1703	NZ	LYS	216	15.452	91.362	19.071	1.00	166.82	N
ATOM	1704	C	LYS	216	11.991	89.533	18.997	1.00	166.82	C
ATOM	1705	O	LYS	216	11.781	90.209	20.004	1.00	166.82	O
ATOM	1706	N	ALA	217	11.078	88.689	18.495	1.00	48.51	N
ATOM	1707	CA	ALA	217	9.743	88.597	19.002	1.00	48.51	C
ATOM	1708	CB	ALA	217	8.911	87.550	18.246	1.00	48.51	C
ATOM	1709	C	ALA	217	9.793	88.173	20.436	1.00	48.51	C
ATOM	1710	O	ALA	217	8.960	88.587	21.241	1.00	48.51	O
ATOM	1711	N	GLY	218	10.757	87.297	20.769	1.00	46.16	N
ATOM	1712	CA	GLY	218	10.929	86.735	22.083	1.00	46.16	C
ATOM	1713	C	GLY	218	11.299	87.768	23.119	1.00	46.16	C
ATOM	1714	O	GLY	218	10.929	87.637	24.285	1.00	46.16	O
ATOM	1715	N	ALA	219	12.127	88.768	22.763	1.00	39.72	N
ATOM	1716	CA	ALA	219	12.505	89.781	23.716	1.00	39.72	C
ATOM	1717	CB	ALA	219	13.572	90.738	23.160	1.00	39.72	C
ATOM	1718	C	ALA	219	11.299	90.597	24.060	1.00	39.72	C
ATOM	1719	O	ALA	219	11.061	90.932	25.220	1.00	39.72	O
ATOM	1720	N	VAL	220	10.503	90.924	23.026	1.00	72.64	N
ATOM	1721	CA	VAL	220	9.286	91.672	23.152	1.00	72.64	C
ATOM	1722	CB	VAL	220	8.620	91.954	21.836	1.00	72.64	C
ATOM	1723	CG1	VAL	220	7.301	92.695	22.110	1.00	72.64	C
ATOM	1724	CG2	VAL	220	9.595	92.739	20.942	1.00	72.64	C
ATOM	1725	C	VAL	220	8.377	90.800	23.948	1.00	72.64	C
ATOM	1726	O	VAL	220	7.327	91.219	24.428	1.00	72.64	O
ATOM	1727	N	ALA	221	8.694	89.499	23.961	1.00	103.53	N
ATOM	1728	CA	ALA	221	8.003	88.538	24.756	1.00	103.53	C
ATOM	1729	CB	ALA	221	8.268	87.072	24.366	1.00	103.53	C
ATOM	1730	C	ALA	221	8.333	88.726	26.223	1.00	103.53	C
ATOM	1731	O	ALA	221	7.598	88.231	27.074	1.00	103.53	O
ATOM	1732	N	GLU	222	9.533	89.269	26.552	1.00	211.65	N
ATOM	1733	CA	GLU	222	9.982	89.435	27.920	1.00	211.65	C
ATOM	1734	CB	GLU	222	11.508	89.607	27.978	1.00	211.65	C
ATOM	1735	CG	GLU	222	12.027	89.956	29.369	1.00	211.65	C
ATOM	1736	CD	GLU	222	11.663	88.828	30.319	1.00	211.65	C
ATOM	1737	OE1	GLU	222	11.073	87.816	29.852	1.00	211.65	O
ATOM	1738	OE2	GLU	222	11.976	88.968	31.531	1.00	211.65	O
ATOM	1739	C	GLU	222	9.381	90.546	28.769	1.00	211.65	C
ATOM	1740	O	GLU	222	8.589	90.279	29.671	1.00	211.65	O
ATOM	1741	N	GLU	223	9.687	91.835	28.478	1.00	260.20	N
ATOM	1742	CA	GLU	223	9.231	92.929	29.317	1.00	260.20	C
ATOM	1743	CB	GLU	223	7.704	93.114	29.306	1.00	260.20	C
ATOM	1744	CG	GLU	223	7.170	93.645	27.973	1.00	260.20	C
ATOM	1745	CD	GLU	223	7.362	92.566	26.918	1.00	260.20	C
ATOM	1746	OE1	GLU	223	8.447	92.559	26.277	1.00	260.20	O
ATOM	1747	OE2	GLU	223	6.430	91.736	26.744	1.00	260.20	O
ATOM	1748	C	GLU	223	9.686	92.745	30.752	1.00	260.20	C
ATOM	1749	O	GLU	223	10.430	91.817	31.058	1.00	260.20	O
ATOM	1750	N	VAL	224	9.293	93.676	31.666	1.00	119.72	N
ATOM	1751	CA	VAL	224	9.661	93.607	33.065	1.00	119.72	C
ATOM	1752	CB	VAL	224	9.586	94.924	33.786	1.00	119.72	C
ATOM	1753	CG1	VAL	224	9.785	94.663	35.290	1.00	119.72	C
ATOM	1754	CG2	VAL	224	10.645	95.870	33.192	1.00	119.72	C
ATOM	1755	C	VAL	224	8.762	92.642	33.782	1.00	119.72	C
ATOM	1756	O	VAL	224	7.573	92.536	33.489	1.00	119.72	O
ATOM	1757	N	LEU	225	9.395	91.750	34.564	1.00	225.20	N
ATOM	1758	CA	LEU	225	8.825	90.745	35.421	1.00	225.20	C
ATOM	1759	CB	LEU	225	9.492	89.394	35.121	1.00	225.20	C
ATOM	1760	CG	LEU	225	9.095	88.833	33.729	1.00	225.20	C
ATOM	1761	CD1	LEU	225	9.325	89.801	32.557	1.00	225.20	C
ATOM	1762	CD2	LEU	225	9.846	87.535	33.457	1.00	225.20	C
ATOM	1763	C	LEU	225	8.818	91.053	36.899	1.00	225.20	C
ATOM	1764	O	LEU	225	8.129	90.380	37.663	1.00	225.20	O
ATOM	1765	N	ALA	226	9.697	91.974	37.349	1.00	91.64	N
ATOM	1766	CA	ALA	226	9.960	92.265	38.744	1.00	91.64	C
ATOM	1767	CB	ALA	226	11.407	92.720	38.998	1.00	91.64	C
ATOM	1768	C	ALA	226	9.073	93.354	39.268	1.00	91.64	C
ATOM	1769	O	ALA	226	8.089	93.729	38.637	1.00	91.64	O



ATOM	1770	N	ALA	227	9.414	93.858	40.483	1.00	83.55	N
ATOM	1771	CA	ALA	227	8.689	94.903	41.160	1.00	83.55	C
ATOM	1772	CB	ALA	227	8.539	96.176	40.311	1.00	83.55	C
ATOM	1773	C	ALA	227	7.336	94.358	41.427	1.00	83.55	C
ATOM	1774	O	ALA	227	6.365	95.071	41.663	1.00	83.55	O
ATOM	1775	N	ILE	228	7.301	93.032	41.512	1.00	153.17	N
ATOM	1776	CA	ILE	228	6.129	92.234	41.617	1.00	153.17	C
ATOM	1777	CB	ILE	228	6.510	90.778	41.678	1.00	153.17	C
ATOM	1778	CG1	ILE	228	5.352	89.834	41.315	1.00	153.17	C
ATOM	1779	CG2	ILE	228	7.140	90.529	43.056	1.00	153.17	C
ATOM	1780	CD1	ILE	228	4.168	89.864	42.268	1.00	153.17	C
ATOM	1781	C	ILE	228	5.339	92.623	42.827	1.00	153.17	C
ATOM	1782	O	ILE	228	4.120	92.554	42.773	1.00	153.17	O
ATOM	1783	N	ARG	229	5.959	93.019	43.957	1.00	128.04	N
ATOM	1784	CA	ARG	229	5.133	93.335	45.099	1.00	128.04	C
ATOM	1785	CB	ARG	229	5.935	93.790	46.331	1.00	128.04	C
ATOM	1786	CG	ARG	229	5.046	94.067	47.547	1.00	128.04	C
ATOM	1787	CD	ARG	229	5.817	94.390	48.828	1.00	128.04	C
ATOM	1788	NE	ARG	229	6.273	95.805	48.740	1.00	128.04	N
ATOM	1789	CZ	ARG	229	6.230	96.596	49.852	1.00	128.04	C
ATOM	1790	NH1	ARG	229	5.740	96.095	51.024	1.00	128.04	N
ATOM	1791	NH2	ARG	229	6.675	97.884	49.792	1.00	128.04	N
ATOM	1792	C	ARG	229	4.217	94.450	44.714	1.00	128.04	C
ATOM	1793	O	ARG	229	3.010	94.382	44.939	1.00	128.04	O
ATOM	1794	N	THR	230	4.762	95.476	44.042	1.00	45.43	N
ATOM	1795	CA	THR	230	3.940	96.569	43.634	1.00	45.43	C
ATOM	1796	CB	THR	230	4.710	97.625	42.900	1.00	45.43	C
ATOM	1797	OG1	THR	230	5.755	98.125	43.721	1.00	45.43	O
ATOM	1798	CG2	THR	230	3.747	98.762	42.519	1.00	45.43	C
ATOM	1799	C	THR	230	2.918	96.024	42.687	1.00	45.43	C
ATOM	1800	O	THR	230	1.767	96.460	42.685	1.00	45.43	O
ATOM	1801	N	VAL	231	3.325	95.065	41.834	1.00	168.17	N
ATOM	1802	CA	VAL	231	2.421	94.521	40.854	1.00	168.17	C
ATOM	1803	CB	VAL	231	3.033	93.789	39.679	1.00	168.17	C
ATOM	1804	CG1	VAL	231	4.002	94.735	38.958	1.00	168.17	C
ATOM	1805	CG2	VAL	231	3.616	92.438	40.095	1.00	168.17	C
ATOM	1806	C	VAL	231	1.348	93.647	41.455	1.00	168.17	C
ATOM	1807	O	VAL	231	0.303	93.466	40.836	1.00	168.17	O
ATOM	1808	N	ILE	232	1.577	93.010	42.622	1.00	124.13	N
ATOM	1809	CA	ILE	232	0.563	92.174	43.207	1.00	124.13	C
ATOM	1810	CB	ILE	232	0.988	91.493	44.479	1.00	124.13	C
ATOM	1811	CG1	ILE	232	2.024	90.393	44.212	1.00	124.13	C
ATOM	1812	CG2	ILE	232	-0.284	90.970	45.165	1.00	124.13	C
ATOM	1813	CD1	ILE	232	1.477	89.246	43.360	1.00	124.13	C
ATOM	1814	C	ILE	232	-0.586	93.052	43.574	1.00	124.13	C
ATOM	1815	O	ILE	232	-1.747	92.715	43.351	1.00	124.13	O
ATOM	1816	N	ALA	233	-0.266	94.208	44.176	1.00	79.35	N
ATOM	1817	CA	ALA	233	-1.222	95.213	44.547	1.00	79.35	C
ATOM	1818	CB	ALA	233	-0.592	96.390	45.313	1.00	79.35	C
ATOM	1819	C	ALA	233	-1.815	95.754	43.279	1.00	79.35	C
ATOM	1820	O	ALA	233	-2.854	96.413	43.289	1.00	79.35	O
ATOM	1821	N	PHE	234	-1.050	95.639	42.180	1.00	105.91	N
ATOM	1822	CA	PHE	234	-1.432	96.077	40.860	1.00	105.91	C
ATOM	1823	CB	PHE	234	-0.206	96.075	39.924	1.00	105.91	C
ATOM	1824	CG	PHE	234	-0.484	96.875	38.698	1.00	105.91	C
ATOM	1825	CD1	PHE	234	-0.597	98.244	38.786	1.00	105.91	C
ATOM	1826	CD2	PHE	234	-0.587	96.274	37.465	1.00	105.91	C
ATOM	1827	CE1	PHE	234	-0.841	99.001	37.665	1.00	105.91	C
ATOM	1828	CE2	PHE	234	-0.831	97.027	36.340	1.00	105.91	C
ATOM	1829	CZ	PHE	234	-0.961	98.392	36.439	1.00	105.91	C
ATOM	1830	C	PHE	234	-2.500	95.175	40.288	1.00	105.91	C
ATOM	1831	O	PHE	234	-3.491	95.658	39.735	1.00	105.91	O
ATOM	1832	N	GLY	235	-2.328	93.837	40.441	1.00	90.16	N
ATOM	1833	CA	GLY	235	-3.272	92.852	39.977	1.00	90.16	C
ATOM	1834	C	GLY	235	-2.594	91.766	39.202	1.00	90.16	C
ATOM	1835	O	GLY	235	-2.655	90.590	39.566	1.00	90.16	O
ATOM	1836	N	GLY	236	-1.904	92.128	38.120	1.00	97.91	N
ATOM	1837	CA	GLY	236	-1.242	91.146	37.335	1.00	97.91	C
ATOM	1838	C	GLY	236	-1.514	91.592	35.966	1.00	97.91	C
ATOM	1839	O	GLY	236	-2.681	91.660	35.573	1.00	97.91	O
ATOM	1840	N	GLN	237	-0.436	91.912	35.222	1.00	180.96	N
ATOM	1841	CA	GLN	237	-0.660	92.397	33.904	1.00	180.96	C
ATOM	1842	CB	GLN	237	0.645	92.705	33.145	1.00	180.96	C
ATOM	1843	CG	GLN	237	1.245	94.091	33.433	1.00	180.96	C

ATOM	1844	CD	GLN	237	1.886	94.189	34.817	1.00180.96	C
ATOM	1845	OE1	GLN	237	1.718	93.324	35.674	1.00180.96	O
ATOM	1846	NE2	GLN	237	2.642	95.297	35.045	1.00180.96	N
ATOM	1847	C	GLN	237	-1.388	91.277	33.224	1.00180.96	C
ATOM	1848	O	GLN	237	-2.553	91.422	32.858	1.00180.96	O
ATOM	1849	N	LYS	238	-0.732	90.105	33.165	1.00193.09	N
ATOM	1850	CA	LYS	238	-1.230	88.833	32.733	1.00193.09	C
ATOM	1851	CB	LYS	238	-2.474	88.395	33.519	1.00193.09	C
ATOM	1852	CG	LYS	238	-2.231	88.260	35.023	1.00193.09	C
ATOM	1853	CD	LYS	238	-3.523	88.119	35.831	1.00193.09	C
ATOM	1854	CE	LYS	238	-4.424	89.356	35.777	1.00193.09	C
ATOM	1855	NZ	LYS	238	-5.002	89.513	34.422	1.00193.09	N
ATOM	1856	C	LYS	238	-1.584	88.819	31.279	1.00193.09	C
ATOM	1857	O	LYS	238	-1.314	87.826	30.609	1.00193.09	O
ATOM	1858	N	LYS	239	-2.275	89.873	30.793	1.00154.20	N
ATOM	1859	CA	LYS	239	-2.627	90.097	29.420	1.00154.20	C
ATOM	1860	CB	LYS	239	-3.899	90.926	29.201	1.00154.20	C
ATOM	1861	CG	LYS	239	-4.151	91.104	27.703	1.00154.20	C
ATOM	1862	CD	LYS	239	-5.517	91.667	27.334	1.00154.20	C
ATOM	1863	CE	LYS	239	-5.703	91.827	25.823	1.00154.20	C
ATOM	1864	NZ	LYS	239	-5.521	90.521	25.151	1.00154.20	N
ATOM	1865	C	LYS	239	-1.561	90.811	28.656	1.00154.20	C
ATOM	1866	O	LYS	239	-1.399	90.560	27.469	1.00154.20	O
ATOM	1867	N	GLU	240	-0.861	91.786	29.274	1.00 74.24	N
ATOM	1868	CA	GLU	240	0.123	92.519	28.521	1.00 74.24	C
ATOM	1869	CB	GLU	240	0.845	93.589	29.359	1.00 74.24	C
ATOM	1870	CG	GLU	240	-0.032	94.767	29.788	1.00 74.24	C
ATOM	1871	CD	GLU	240	0.844	95.711	30.604	1.00 74.24	C
ATOM	1872	OE1	GLU	240	2.020	95.342	30.864	1.00 74.24	O
ATOM	1873	OE2	GLU	240	0.355	96.810	30.978	1.00 74.24	O
ATOM	1874	C	GLU	240	1.160	91.532	28.124	1.00 74.24	C
ATOM	1875	O	GLU	240	1.540	91.446	26.958	1.00 74.24	O
ATOM	1876	N	LEU	241	1.621	90.740	29.108	1.00174.25	N
ATOM	1877	CA	LEU	241	2.631	89.757	28.864	1.00174.25	C
ATOM	1878	CB	LEU	241	3.067	88.991	30.123	1.00174.25	C
ATOM	1879	CG	LEU	241	1.964	88.883	31.187	1.00174.25	C
ATOM	1880	CD1	LEU	241	2.293	87.811	32.229	1.00174.25	C
ATOM	1881	CD2	LEU	241	1.764	90.243	31.874	1.00174.25	C
ATOM	1882	C	LEU	241	2.110	88.730	27.916	1.00174.25	C
ATOM	1883	O	LEU	241	2.729	88.469	26.893	1.00174.25	O
ATOM	1884	N	GLU	242	0.924	88.157	28.191	1.00127.08	N
ATOM	1885	CA	GLU	242	0.420	87.097	27.365	1.00127.08	C
ATOM	1886	CB	GLU	242	-0.918	86.555	27.911	1.00127.08	C
ATOM	1887	CG	GLU	242	-1.413	85.251	27.281	1.00127.08	C
ATOM	1888	CD	GLU	242	-2.505	85.589	26.280	1.00127.08	C
ATOM	1889	OE1	GLU	242	-2.580	86.774	25.855	1.00127.08	O
ATOM	1890	OE2	GLU	242	-3.285	84.663	25.932	1.00127.08	O
ATOM	1891	C	GLU	242	0.231	87.620	25.975	1.00127.08	C
ATOM	1892	O	GLU	242	0.601	86.955	25.011	1.00127.08	O
ATOM	1893	N	ARG	243	-0.307	88.847	25.831	1.00136.93	N
ATOM	1894	CA	ARG	243	-0.588	89.362	24.523	1.00136.93	C
ATOM	1895	CB	ARG	243	-1.223	90.759	24.530	1.00136.93	C
ATOM	1896	CG	ARG	243	-1.167	91.406	23.148	1.00136.93	C
ATOM	1897	CD	ARG	243	-2.241	92.459	22.899	1.00136.93	C
ATOM	1898	NE	ARG	243	-3.478	91.710	22.547	1.00136.93	N
ATOM	1899	CZ	ARG	243	-3.692	91.333	21.252	1.00136.93	C
ATOM	1900	NH1	ARG	243	-2.804	91.695	20.280	1.00136.93	N
ATOM	1901	NH2	ARG	243	-4.792	90.593	20.929	1.00136.93	N
ATOM	1902	C	ARG	243	0.664	89.434	23.713	1.00136.93	C
ATOM	1903	O	ARG	243	0.705	88.900	22.609	1.00136.93	O
ATOM	1904	N	TYR	244	1.727	90.074	24.230	1.00 92.69	N
ATOM	1905	CA	TYR	244	2.951	90.150	23.488	1.00 92.69	C
ATOM	1906	CB	TYR	244	3.980	91.105	24.110	1.00 92.69	C
ATOM	1907	CG	TYR	244	3.527	92.469	23.731	1.00 92.69	C
ATOM	1908	CD1	TYR	244	2.593	93.144	24.481	1.00 92.69	C
ATOM	1909	CD2	TYR	244	4.030	93.057	22.595	1.00 92.69	C
ATOM	1910	CE1	TYR	244	2.180	94.400	24.104	1.00 92.69	C
ATOM	1911	CE2	TYR	244	3.623	94.311	22.214	1.00 92.69	C
ATOM	1912	CZ	TYR	244	2.696	94.984	22.971	1.00 92.69	C
ATOM	1913	OH	TYR	244	2.276	96.272	22.579	1.00 92.69	O
ATOM	1914	C	TYR	244	3.558	88.786	23.367	1.00 92.69	C
ATOM	1915	O	TYR	244	4.095	88.434	22.320	1.00 92.69	O
ATOM	1916	N	ASN	245	3.514	87.968	24.433	1.00101.82	N
ATOM	1917	CA	ASN	245	4.155	86.687	24.321	1.00101.82	C

ATOM	1918	CB	ASN	245	4.008	85.819	25.585	1.00101.82	C
ATOM	1919	CG	ASN	245	5.028	86.277	26.616	1.00101.82	C
ATOM	1920	OD1	ASN	245	6.233	86.198	26.387	1.00101.82	O
ATOM	1921	ND2	ASN	245	4.544	86.756	27.792	1.00101.82	N
ATOM	1922	C	ASN	245	3.562	85.898	23.195	1.00101.82	C
ATOM	1923	O	ASN	245	4.231	85.664	22.194	1.00101.82	O
ATOM	1924	N	LYS	246	2.265	85.553	23.285	1.00114.11	N
ATOM	1925	CA	LYS	246	1.609	84.730	22.310	1.00114.11	C
ATOM	1926	CB	LYS	246	0.171	84.350	22.712	1.00114.11	C
ATOM	1927	CG	LYS	246	0.109	83.458	23.956	1.00114.11	C
ATOM	1928	CD	LYS	246	-1.297	83.301	24.541	1.00114.11	C
ATOM	1929	CE	LYS	246	-1.348	82.408	25.784	1.00114.11	C
ATOM	1930	NZ	LYS	246	-1.041	81.009	25.411	1.00114.11	N
ATOM	1931	C	LYS	246	1.547	85.444	21.003	1.00114.11	C
ATOM	1932	O	LYS	246	1.538	84.788	19.964	1.00114.11	O
ATOM	1933	N	ASN	247	1.440	86.792	20.987	1.00153.92	N
ATOM	1934	CA	ASN	247	1.297	87.337	19.670	1.00153.92	C
ATOM	1935	CB	ASN	247	0.675	88.754	19.555	1.00153.92	C
ATOM	1936	CG	ASN	247	1.495	89.878	20.156	1.00153.92	C
ATOM	1937	OD1	ASN	247	2.527	89.657	20.778	1.00153.92	O
ATOM	1938	ND2	ASN	247	1.008	91.135	19.974	1.00153.92	N
ATOM	1939	C	ASN	247	2.548	87.173	18.852	1.00153.92	C
ATOM	1940	O	ASN	247	2.492	86.553	17.794	1.00153.92	O
ATOM	1941	N	LEU	248	3.725	87.641	19.321	1.00110.43	N
ATOM	1942	CA	LEU	248	4.909	87.475	18.523	1.00110.43	C
ATOM	1943	CB	LEU	248	6.165	88.112	19.142	1.00110.43	C
ATOM	1944	CG	LEU	248	6.183	89.651	19.171	1.00110.43	C
ATOM	1945	CD1	LEU	248	6.114	90.235	17.751	1.00110.43	C
ATOM	1946	CD2	LEU	248	5.125	90.222	20.123	1.00110.43	C
ATOM	1947	C	LEU	248	5.200	86.014	18.424	1.00110.43	C
ATOM	1948	O	LEU	248	5.497	85.501	17.346	1.00110.43	O
ATOM	1949	N	GLU	249	5.095	85.293	19.557	1.00102.51	N
ATOM	1950	CA	GLU	249	5.455	83.909	19.541	1.00102.51	C
ATOM	1951	CB	GLU	249	5.314	83.180	20.891	1.00102.51	C
ATOM	1952	CG	GLU	249	6.423	83.510	21.891	1.00102.51	C
ATOM	1953	CD	GLU	249	6.458	82.393	22.927	1.00102.51	C
ATOM	1954	OE1	GLU	249	5.366	81.991	23.411	1.00102.51	O
ATOM	1955	OE2	GLU	249	7.582	81.916	23.235	1.00102.51	O
ATOM	1956	C	GLU	249	4.610	83.187	18.573	1.00102.51	C
ATOM	1957	O	GLU	249	5.167	82.522	17.723	1.00102.51	O
ATOM	1958	N	GLU	250	3.275	83.322	18.599	1.00109.04	N
ATOM	1959	CA	GLU	250	2.484	82.540	17.693	1.00109.04	C
ATOM	1960	CB	GLU	250	0.973	82.717	17.919	1.00109.04	C
ATOM	1961	CG	GLU	250	0.138	81.612	17.270	1.00109.04	C
ATOM	1962	CD	GLU	250	-1.307	81.774	17.721	1.00109.04	C
ATOM	1963	OE1	GLU	250	-1.540	82.498	18.725	1.00109.04	O
ATOM	1964	OE2	GLU	250	-2.199	81.170	17.068	1.00109.04	O
ATOM	1965	C	GLU	250	2.825	82.938	16.291	1.00109.04	C
ATOM	1966	O	GLU	250	2.927	82.082	15.414	1.00109.04	O
ATOM	1967	N	ALA	251	3.054	84.246	16.043	1.00 74.49	N
ATOM	1968	CA	ALA	251	3.255	84.687	14.691	1.00 74.49	C
ATOM	1969	CB	ALA	251	3.529	86.196	14.612	1.00 74.49	C
ATOM	1970	C	ALA	251	4.432	83.988	14.090	1.00 74.49	C
ATOM	1971	O	ALA	251	4.285	83.278	13.100	1.00 74.49	O
ATOM	1972	N	LYS	252	5.613	84.112	14.719	1.00134.40	N
ATOM	1973	CA	LYS	252	6.814	83.469	14.282	1.00134.40	C
ATOM	1974	CB	LYS	252	8.072	83.901	15.057	1.00134.40	C
ATOM	1975	CG	LYS	252	8.579	85.303	14.715	1.00134.40	C
ATOM	1976	CD	LYS	252	7.675	86.436	15.200	1.00134.40	C
ATOM	1977	CE	LYS	252	8.219	87.821	14.849	1.00134.40	C
ATOM	1978	NZ	LYS	252	7.326	88.870	15.383	1.00134.40	N
ATOM	1979	C	LYS	252	6.625	82.021	14.555	1.00134.40	C
ATOM	1980	O	LYS	252	7.437	81.207	14.142	1.00134.40	O
ATOM	1981	N	ARG	253	5.641	81.653	15.388	1.00195.89	N
ATOM	1982	CA	ARG	253	5.501	80.260	15.681	1.00195.89	C
ATOM	1983	CB	ARG	253	4.287	79.858	16.548	1.00195.89	C
ATOM	1984	CG	ARG	253	4.458	79.913	18.066	1.00195.89	C
ATOM	1985	CD	ARG	253	5.712	79.207	18.582	1.00195.89	C
ATOM	1986	NE	ARG	253	6.412	80.187	19.456	1.00195.89	N
ATOM	1987	CZ	ARG	253	7.215	81.141	18.904	1.00195.89	C
ATOM	1988	NH1	ARG	253	7.473	81.134	17.564	1.00195.89	N
ATOM	1989	NH2	ARG	253	7.715	82.138	19.688	1.00195.89	N
ATOM	1990	C	ARG	253	5.214	79.618	14.410	1.00195.89	C
ATOM	1991	O	ARG	253	6.117	79.068	13.808	1.00195.89	O

ATOM	1992	N	ILE	254	3.992	79.847	13.907	1.00168.76	N
ATOM	1993	CA	ILE	254	3.513	79.277	12.697	1.00168.76	C
ATOM	1994	CB	ILE	254	2.065	79.600	12.412	1.00168.76	C
ATOM	1995	CG1	ILE	254	1.817	81.111	12.244	1.00168.76	C
ATOM	1996	CG2	ILE	254	1.219	78.971	13.528	1.00168.76	C
ATOM	1997	CD1	ILE	254	2.225	81.684	10.887	1.00168.76	C
ATOM	1998	C	ILE	254	4.371	79.801	11.605	1.00168.76	C
ATOM	1999	O	ILE	254	4.542	79.106	10.617	1.00168.76	O
ATOM	2000	N	GLY	255	4.856	81.060	11.704	1.00 65.54	N
ATOM	2001	CA	GLY	255	5.664	81.651	10.662	1.00 65.54	C
ATOM	2002	C	GLY	255	7.013	80.999	10.504	1.00 65.54	C
ATOM	2003	O	GLY	255	7.362	80.526	9.425	1.00 65.54	O
ATOM	2004	N	ILE	256	7.797	80.941	11.595	1.00180.11	N
ATOM	2005	CA	ILE	256	9.104	80.353	11.653	1.00180.11	C
ATOM	2006	CB	ILE	256	9.803	80.462	12.990	1.00180.11	C
ATOM	2007	CG1	ILE	256	11.340	80.479	12.847	1.00180.11	C
ATOM	2008	CG2	ILE	256	9.344	79.272	13.853	1.00180.11	C
ATOM	2009	CD1	ILE	256	11.977	79.188	12.333	1.00180.11	C
ATOM	2010	C	ILE	256	8.817	78.932	11.441	1.00180.11	C
ATOM	2011	O	ILE	256	9.726	78.169	11.185	1.00180.11	O
ATOM	2012	N	LYS	257	7.583	78.523	11.768	1.00172.89	N
ATOM	2013	CA	LYS	257	7.073	77.207	11.554	1.00172.89	C
ATOM	2014	CB	LYS	257	5.977	76.703	12.500	1.00172.89	C
ATOM	2015	CG	LYS	257	6.629	76.385	13.847	1.00172.89	C
ATOM	2016	CD	LYS	257	5.692	75.877	14.923	1.00172.89	C
ATOM	2017	CE	LYS	257	6.401	75.518	16.231	1.00172.89	C
ATOM	2018	NZ	LYS	257	6.780	76.750	16.959	1.00172.89	N
ATOM	2019	C	LYS	257	6.676	76.991	10.139	1.00172.89	C
ATOM	2020	O	LYS	257	6.360	75.871	9.765	1.00172.89	O
ATOM	2021	N	LYS	258	6.495	78.063	9.357	1.00149.41	N
ATOM	2022	CA	LYS	258	6.217	77.925	7.967	1.00149.41	C
ATOM	2023	CB	LYS	258	5.831	79.246	7.292	1.00149.41	C
ATOM	2024	CG	LYS	258	4.490	79.787	7.782	1.00149.41	C
ATOM	2025	CD	LYS	258	4.214	81.227	7.353	1.00149.41	C
ATOM	2026	CE	LYS	258	3.999	81.378	5.847	1.00149.41	C
ATOM	2027	NZ	LYS	258	3.477	82.729	5.543	1.00149.41	N
ATOM	2028	C	LYS	258	7.517	77.511	7.440	1.00149.41	C
ATOM	2029	O	LYS	258	7.594	76.733	6.501	1.00149.41	O
ATOM	2030	N	ALA	259	8.556	78.135	8.026	1.00 85.70	N
ATOM	2031	CA	ALA	259	9.940	77.850	7.858	1.00 85.70	C
ATOM	2032	CB	ALA	259	10.851	78.903	8.510	1.00 85.70	C
ATOM	2033	C	ALA	259	10.228	76.534	8.517	1.00 85.70	C
ATOM	2034	O	ALA	259	11.129	75.837	8.076	1.00 85.70	O
ATOM	2035	N	ILE	260	9.568	76.186	9.647	1.00190.72	N
ATOM	2036	CA	ILE	260	9.938	74.965	10.303	1.00190.72	C
ATOM	2037	CB	ILE	260	9.507	74.705	11.728	1.00190.72	C
ATOM	2038	CG1	ILE	260	8.010	74.455	11.908	1.00190.72	C
ATOM	2039	CG2	ILE	260	10.053	75.844	12.591	1.00190.72	C
ATOM	2040	CD1	ILE	260	7.709	73.724	13.212	1.00190.72	C
ATOM	2041	C	ILE	260	9.383	73.889	9.476	1.00190.72	C
ATOM	2042	O	ILE	260	10.074	72.955	9.097	1.00190.72	O
ATOM	2043	N	THR	261	8.106	74.079	9.124	1.00176.21	N
ATOM	2044	CA	THR	261	7.315	73.239	8.300	1.00176.21	C
ATOM	2045	CB	THR	261	5.860	73.620	8.260	1.00176.21	C
ATOM	2046	CG1	THR	261	5.315	73.543	9.566	1.00176.21	O
ATOM	2047	CG2	THR	261	5.093	72.653	7.343	1.00176.21	C
ATOM	2048	C	THR	261	7.916	73.392	6.957	1.00176.21	C
ATOM	2049	O	THR	261	7.488	72.740	6.021	1.00176.21	O
ATOM	2050	N	ALA	262	8.732	74.448	6.794	1.00110.41	N
ATOM	2051	CA	ALA	262	9.558	74.721	5.652	1.00110.41	C
ATOM	2052	CB	ALA	262	10.052	76.161	5.478	1.00110.41	C
ATOM	2053	C	ALA	262	10.793	73.908	5.681	1.00110.41	C
ATOM	2054	O	ALA	262	11.388	73.737	4.633	1.00110.41	O
ATOM	2055	N	ASN	263	11.319	73.590	6.882	1.00 71.05	N
ATOM	2056	CA	ASN	263	12.473	72.764	7.053	1.00 71.05	C
ATOM	2057	CB	ASN	263	12.985	72.751	8.503	1.00 71.05	C
ATOM	2058	CG	ASN	263	14.366	72.114	8.512	1.00 71.05	C
ATOM	2059	OD1	ASN	263	14.586	71.067	7.907	1.00 71.05	O
ATOM	2060	ND2	ASN	263	15.330	72.771	9.211	1.00 71.05	N
ATOM	2061	C	ASN	263	11.916	71.436	6.738	1.00 71.05	C
ATOM	2062	O	ASN	263	12.523	70.576	6.103	1.00 71.05	O
ATOM	2063	N	ILE	264	10.674	71.278	7.210	1.00124.31	N
ATOM	2064	CA	ILE	264	9.933	70.101	6.960	1.00124.31	C
ATOM	2065	CB	ILE	264	8.584	70.146	7.611	1.00124.31	C

ATOM	2066	CG1	ILE	264	8.742	70.223	9.139	1.00124.31	C
ATOM	2067	CG2	ILE	264	7.774	68.933	7.130	1.00124.31	C
ATOM	2068	CD1	ILE	264	9.497	69.031	9.729	1.00124.31	C
ATOM	2069	C	ILE	264	9.737	70.100	5.491	1.00124.31	C
ATOM	2070	O	ILE	264	10.065	69.148	4.791	1.00124.31	O
ATOM	2071	N	SER	265	9.292	71.252	4.978	1.00 80.17	N
ATOM	2072	CA	SER	265	9.020	71.420	3.591	1.00 80.17	C
ATOM	2073	CB	SER	265	8.464	72.802	3.200	1.00 80.17	C
ATOM	2074	OG	SER	265	7.077	72.882	3.488	1.00 80.17	O
ATOM	2075	C	SER	265	10.317	71.255	2.891	1.00 80.17	C
ATOM	2076	O	SER	265	10.333	71.084	1.678	1.00 80.17	O
ATOM	2077	N	ILE	266	11.429	71.395	3.639	1.00 76.16	N
ATOM	2078	CA	ILE	266	12.762	71.230	3.141	1.00 76.16	C
ATOM	2079	CB	ILE	266	13.880	71.723	4.024	1.00 76.16	C
ATOM	2080	CG1	ILE	266	13.993	73.256	4.016	1.00 76.16	C
ATOM	2081	CG2	ILE	266	15.167	71.016	3.570	1.00 76.16	C
ATOM	2082	CD1	ILE	266	14.879	73.819	5.127	1.00 76.16	C
ATOM	2083	C	ILE	266	13.001	69.795	2.929	1.00 76.16	C
ATOM	2084	O	ILE	266	13.570	69.405	1.913	1.00 76.16	O
ATOM	2085	N	GLY	267	12.571	68.977	3.908	1.00 48.52	N
ATOM	2086	CA	GLY	267	12.759	67.571	3.770	1.00 48.52	C
ATOM	2087	C	GLY	267	12.005	67.265	2.525	1.00 48.52	C
ATOM	2088	O	GLY	267	12.444	66.508	1.662	1.00 48.52	O
ATOM	2089	N	ALA	268	10.851	67.934	2.395	1.00 60.42	N
ATOM	2090	CA	ALA	268	10.020	67.810	1.247	1.00 60.42	C
ATOM	2091	CB	ALA	268	8.737	68.645	1.365	1.00 60.42	C
ATOM	2092	C	ALA	268	10.783	68.295	0.053	1.00 60.42	C
ATOM	2093	O	ALA	268	10.625	67.755	-1.038	1.00 60.42	O
ATOM	2094	N	ALA	269	11.595	69.361	0.194	1.00 84.10	N
ATOM	2095	CA	ALA	269	12.283	69.852	-0.965	1.00 84.10	C
ATOM	2096	CB	ALA	269	13.096	71.122	-0.669	1.00 84.10	C
ATOM	2097	C	ALA	269	13.248	68.821	-1.450	1.00 84.10	C
ATOM	2098	O	ALA	269	13.008	68.210	-2.488	1.00 84.10	O
ATOM	2099	N	PHE	270	14.245	68.469	-0.603	1.00 94.89	N
ATOM	2100	CA	PHE	270	15.304	67.578	-0.980	1.00 94.89	C
ATOM	2101	CB	PHE	270	16.208	67.152	0.194	1.00 94.89	C
ATOM	2102	CG	PHE	270	17.170	68.229	0.548	1.00 94.89	C
ATOM	2103	CD1	PHE	270	18.323	68.370	-0.188	1.00 94.89	C
ATOM	2104	CD2	PHE	270	16.944	69.073	1.611	1.00 94.89	C
ATOM	2105	CE1	PHE	270	19.238	69.347	0.119	1.00 94.89	C
ATOM	2106	CE2	PHE	270	17.857	70.053	1.922	1.00 94.89	C
ATOM	2107	CZ	PHE	270	19.003	70.192	1.177	1.00 94.89	C
ATOM	2108	C	PHE	270	14.691	66.307	-1.460	1.00 94.89	C
ATOM	2109	O	PHE	270	15.132	65.772	-2.472	1.00 94.89	O
ATOM	2110	N	LEU	271	13.702	65.767	-0.720	1.00130.75	N
ATOM	2111	CA	LEU	271	13.060	64.537	-1.107	1.00130.75	C
ATOM	2112	CB	LEU	271	12.200	63.868	-0.020	1.00130.75	C
ATOM	2113	CG	LEU	271	13.004	63.134	1.072	1.00130.75	C
ATOM	2114	CD1	LEU	271	13.643	64.086	2.092	1.00130.75	C
ATOM	2115	CD2	LEU	271	12.165	62.021	1.712	1.00130.75	C
ATOM	2116	C	LEU	271	12.187	64.640	-2.330	1.00130.75	C
ATOM	2117	O	LEU	271	12.239	63.771	-3.197	1.00130.75	O
ATOM	2118	N	LEU	272	11.348	65.688	-2.444	1.00 65.54	N
ATOM	2119	CA	LEU	272	10.462	65.809	-3.572	1.00 65.54	C
ATOM	2120	CB	LEU	272	9.654	67.119	-3.525	1.00 65.54	C
ATOM	2121	CG	LEU	272	8.711	67.336	-4.722	1.00 65.54	C
ATOM	2122	CD1	LEU	272	7.572	66.308	-4.744	1.00 65.54	C
ATOM	2123	CD2	LEU	272	8.202	68.786	-4.765	1.00 65.54	C
ATOM	2124	C	LEU	272	11.331	65.869	-4.780	1.00 65.54	C
ATOM	2125	O	LEU	272	11.103	65.187	-5.778	1.00 65.54	O
ATOM	2126	N	ILE	273	12.379	66.695	-4.675	1.00122.79	N
ATOM	2127	CA	ILE	273	13.381	66.900	-5.672	1.00122.79	C
ATOM	2128	CB	ILE	273	14.355	67.971	-5.285	1.00122.79	C
ATOM	2129	CG1	ILE	273	13.615	69.307	-5.119	1.00122.79	C
ATOM	2130	CG2	ILE	273	15.474	68.005	-6.338	1.00122.79	C
ATOM	2131	CD1	ILE	273	12.844	69.721	-6.370	1.00122.79	C
ATOM	2132	C	ILE	273	14.132	65.623	-5.810	1.00122.79	C
ATOM	2133	O	ILE	273	14.739	65.354	-6.844	1.00122.79	O
ATOM	2134	N	TYR	274	14.203	64.853	-4.713	1.00182.33	N
ATOM	2135	CA	TYR	274	14.899	63.609	-4.723	1.00182.33	C
ATOM	2136	CB	TYR	274	14.924	62.967	-3.320	1.00182.33	C
ATOM	2137	CG	TYR	274	15.330	61.535	-3.389	1.00182.33	C
ATOM	2138	CD1	TYR	274	16.616	61.149	-3.689	1.00182.33	C
ATOM	2139	CD2	TYR	274	14.386	60.564	-3.168	1.00182.33	C

ATOM	2140	CE1	TYR	274	16.946	59.813	-3.743	1.00182.33	C
ATOM	2141	CE2	TYR	274	14.705	59.230	-3.218	1.00182.33	C
ATOM	2142	CZ	TYR	274	15.993	58.851	-3.504	1.00182.33	C
ATOM	2143	OH	TYR	274	16.330	57.482	-3.558	1.00182.33	O
ATOM	2144	C	TYR	274	14.208	62.732	-5.702	1.00182.33	C
ATOM	2145	O	TYR	274	14.825	62.276	-6.649	1.00182.33	O
ATOM	2146	N	ALA	275	12.885	62.569	-5.589	1.00 76.41	N
ATOM	2147	CA	ALA	275	12.156	61.721	-6.483	1.00 76.41	C
ATOM	2148	CB	ALA	275	10.655	61.663	-6.151	1.00 76.41	C
ATOM	2149	C	ALA	275	12.307	62.272	-7.860	1.00 76.41	C
ATOM	2150	O	ALA	275	12.249	61.521	-8.833	1.00 76.41	O
ATOM	2151	N	SER	276	12.448	63.608	-7.982	1.00 89.72	N
ATOM	2152	CA	SER	276	12.591	64.187	-9.286	1.00 89.72	C
ATOM	2153	CB	SER	276	12.715	65.722	-9.328	1.00 89.72	C
ATOM	2154	OG	SER	276	14.071	66.122	-9.202	1.00 89.72	O
ATOM	2155	C	SER	276	13.854	63.640	-9.859	1.00 89.72	C
ATOM	2156	O	SER	276	13.927	63.407	-11.065	1.00 89.72	O
ATOM	2157	N	TYR	277	14.866	63.392	-8.992	1.00238.20	N
ATOM	2158	CA	TYR	277	16.121	62.867	-9.440	1.00238.20	C
ATOM	2159	CB	TYR	277	17.152	62.499	-8.332	1.00238.20	C
ATOM	2160	CG	TYR	277	17.327	61.014	-8.083	1.00238.20	C
ATOM	2161	CD1	TYR	277	16.556	60.302	-7.192	1.00238.20	C
ATOM	2162	CD2	TYR	277	18.305	60.304	-8.741	1.00238.20	C
ATOM	2163	CE1	TYR	277	16.710	58.962	-6.949	1.00238.20	C
ATOM	2164	CE2	TYR	277	18.476	58.956	-8.508	1.00238.20	C
ATOM	2165	CZ	TYR	277	17.684	58.277	-7.618	1.00238.20	C
ATOM	2166	OH	TYR	277	17.869	56.897	-7.389	1.00238.20	O
ATOM	2167	C	TYR	277	15.720	61.599	-10.076	1.00238.20	C
ATOM	2168	O	TYR	277	16.078	61.367	-11.217	1.00238.20	O
ATOM	2169	N	ALA	278	14.849	60.818	-9.409	1.00 53.36	N
ATOM	2170	CA	ALA	278	14.434	59.547	-9.914	1.00 53.36	C
ATOM	2171	CB	ALA	278	13.372	58.869	-9.031	1.00 53.36	C
ATOM	2172	C	ALA	278	13.823	59.775	-11.257	1.00 53.36	C
ATOM	2173	O	ALA	278	14.036	58.993	-12.182	1.00 53.36	O
ATOM	2174	N	LEU	279	13.065	60.875	-11.405	1.00109.28	N
ATOM	2175	CA	LEU	279	12.370	61.153	-12.629	1.00109.28	C
ATOM	2176	CB	LEU	279	11.762	62.563	-12.549	1.00109.28	C
ATOM	2177	CG	LEU	279	10.840	62.976	-13.704	1.00109.28	C
ATOM	2178	CD1	LEU	279	9.447	62.345	-13.554	1.00109.28	C
ATOM	2179	CD2	LEU	279	10.801	64.504	-13.861	1.00109.28	C
ATOM	2180	C	LEU	279	13.341	61.195	-13.779	1.00109.28	C
ATOM	2181	O	LEU	279	13.392	60.288	-14.605	1.00109.28	O
ATOM	2182	N	ALA	280	14.232	62.197	-13.813	1.00 60.81	N
ATOM	2183	CA	ALA	280	15.136	62.317	-14.922	1.00 60.81	C
ATOM	2184	CB	ALA	280	16.060	63.542	-14.819	1.00 60.81	C
ATOM	2185	C	ALA	280	15.990	61.105	-14.906	1.00 60.81	C
ATOM	2186	O	ALA	280	16.418	60.614	-15.949	1.00 60.81	O
ATOM	2187	N	PHE	281	16.258	60.605	-13.689	1.00154.70	N
ATOM	2188	CA	PHE	281	17.132	59.494	-13.485	1.00154.70	C
ATOM	2189	CB	PHE	281	17.017	58.971	-12.043	1.00154.70	C
ATOM	2190	CG	PHE	281	18.026	57.963	-11.624	1.00154.70	C
ATOM	2191	CD1	PHE	281	19.289	58.361	-11.258	1.00154.70	C
ATOM	2192	CD2	PHE	281	17.708	56.626	-11.574	1.00154.70	C
ATOM	2193	CE1	PHE	281	20.217	57.439	-10.842	1.00154.70	C
ATOM	2194	CE2	PHE	281	18.636	55.699	-11.163	1.00154.70	C
ATOM	2195	CZ	PHE	281	19.895	56.106	-10.793	1.00154.70	C
ATOM	2196	C	PHE	281	16.652	58.403	-14.358	1.00154.70	C
ATOM	2197	O	PHE	281	17.219	58.150	-15.412	1.00154.70	O
ATOM	2198	N	TRP	282	15.501	57.823	-14.017	1.00123.59	N
ATOM	2199	CA	TRP	282	15.063	56.696	-14.766	1.00123.59	C
ATOM	2200	CB	TRP	282	13.996	55.881	-14.036	1.00123.59	C
ATOM	2201	CG	TRP	282	14.656	55.235	-12.849	1.00123.59	C
ATOM	2202	CD2	TRP	282	15.570	54.134	-12.949	1.00123.59	C
ATOM	2203	CD1	TRP	282	14.615	55.584	-11.534	1.00123.59	C
ATOM	2204	NE1	TRP	282	15.430	54.758	-10.801	1.00123.59	N
ATOM	2205	CE2	TRP	282	16.031	53.865	-11.662	1.00123.59	C
ATOM	2206	CE3	TRP	282	16.000	53.418	-14.028	1.00123.59	C
ATOM	2207	CZ2	TRP	282	16.934	52.867	-11.432	1.00123.59	C
ATOM	2208	CZ3	TRP	282	16.901	52.404	-13.792	1.00123.59	C
ATOM	2209	CH2	TRP	282	17.359	52.134	-12.518	1.00123.59	C
ATOM	2210	C	TRP	282	14.634	57.086	-16.133	1.00123.59	C
ATOM	2211	O	TRP	282	14.853	56.330	-17.076	1.00123.59	O
ATOM	2212	N	TYR	283	14.009	58.266	-16.298	1.00 88.61	N
ATOM	2213	CA	TYR	283	13.505	58.550	-17.607	1.00 88.61	C

ATOM	2214	CB	TYR	283	12.690	59.848	-17.685	1.00	88.61	C
ATOM	2215	CG	TYR	283	11.915	59.757	-18.955	1.00	88.61	C
ATOM	2216	CD1	TYR	283	10.718	59.078	-18.968	1.00	88.61	C
ATOM	2217	CD2	TYR	283	12.369	60.324	-20.123	1.00	88.61	C
ATOM	2218	CE1	TYR	283	9.980	58.972	-20.121	1.00	88.61	C
ATOM	2219	CE2	TYR	283	11.635	60.221	-21.283	1.00	88.61	C
ATOM	2220	CZ	TYR	283	10.438	59.545	-21.282	1.00	88.61	C
ATOM	2221	OH	TYR	283	9.683	59.437	-22.468	1.00	88.61	O
ATOM	2222	C	TYR	283	14.630	58.660	-18.596	1.00	88.61	C
ATOM	2223	O	TYR	283	14.681	57.909	-19.566	1.00	88.61	O
ATOM	2224	N	GLY	284	15.620	59.532	-18.333	1.00	44.48	N
ATOM	2225	CA	GLY	284	16.690	59.738	-19.267	1.00	44.48	C
ATOM	2226	C	GLY	284	17.377	58.429	-19.417	1.00	44.48	C
ATOM	2227	O	GLY	284	17.948	58.121	-20.462	1.00	44.48	O
ATOM	2228	N	THR	285	17.395	57.655	-18.320	1.00	77.14	N
ATOM	2229	CA	THR	285	18.010	56.366	-18.322	1.00	77.14	C
ATOM	2230	CB	THR	285	17.937	55.685	-16.992	1.00	77.14	C
ATOM	2231	OG1	THR	285	18.839	56.270	-16.065	1.00	77.14	O
ATOM	2232	CG2	THR	285	18.181	54.186	-17.185	1.00	77.14	C
ATOM	2233	C	THR	285	17.349	55.443	-19.279	1.00	77.14	C
ATOM	2234	O	THR	285	17.997	54.920	-20.177	1.00	77.14	O
ATOM	2235	N	THR	286	16.027	55.267	-19.151	1.00	124.71	N
ATOM	2236	CA	THR	286	15.333	54.287	-19.922	1.00	124.71	C
ATOM	2237	CB	THR	286	13.862	54.243	-19.611	1.00	124.71	C
ATOM	2238	OG1	THR	286	13.235	53.208	-20.354	1.00	124.71	O
ATOM	2239	CG2	THR	286	13.214	55.602	-19.926	1.00	124.71	C
ATOM	2240	C	THR	286	15.505	54.585	-21.374	1.00	124.71	C
ATOM	2241	O	THR	286	15.851	53.697	-22.151	1.00	124.71	O
ATOM	2242	N	LEU	287	15.322	55.855	-21.777	1.00	51.56	N
ATOM	2243	CA	LEU	287	15.411	56.157	-23.171	1.00	51.56	C
ATOM	2244	CB	LEU	287	15.181	57.646	-23.483	1.00	51.56	C
ATOM	2245	CG	LEU	287	15.273	57.977	-24.985	1.00	51.56	C
ATOM	2246	CD1	LEU	287	14.140	57.307	-25.777	1.00	51.56	C
ATOM	2247	CD2	LEU	287	15.359	59.493	-25.223	1.00	51.56	C
ATOM	2248	C	LEU	287	16.786	55.798	-23.639	1.00	51.56	C
ATOM	2249	O	LEU	287	16.955	55.111	-24.644	1.00	51.56	O
ATOM	2250	N	VAL	288	17.806	56.213	-22.873	1.00	112.39	N
ATOM	2251	CA	VAL	288	19.184	56.003	-23.206	1.00	112.39	C
ATOM	2252	CB	VAL	288	20.120	56.881	-22.406	1.00	112.39	C
ATOM	2253	CG1	VAL	288	21.579	56.663	-22.852	1.00	112.39	C
ATOM	2254	CG2	VAL	288	19.665	58.339	-22.588	1.00	112.39	C
ATOM	2255	C	VAL	288	19.512	54.539	-23.046	1.00	112.39	C
ATOM	2256	O	VAL	288	20.651	54.141	-23.249	1.00	112.39	O
ATOM	2257	N	LEU	289	18.627	53.747	-22.413	1.00	192.37	N
ATOM	2258	CA	LEU	289	18.757	52.313	-22.345	1.00	192.37	C
ATOM	2259	CB	LEU	289	18.205	51.683	-21.055	1.00	192.37	C
ATOM	2260	CG	LEU	289	19.237	51.608	-19.910	1.00	192.37	C
ATOM	2261	CD1	LEU	289	20.358	50.627	-20.280	1.00	192.37	O
ATOM	2262	CD2	LEU	289	19.793	52.978	-19.499	1.00	192.37	C
ATOM	2263	C	LEU	289	18.163	51.585	-23.511	1.00	192.37	C
ATOM	2264	O	LEU	289	18.614	50.495	-23.853	1.00	192.37	O
ATOM	2265	N	SER	290	17.048	52.097	-24.068	1.00	63.60	N
ATOM	2266	CA	SER	290	16.398	51.420	-25.152	1.00	63.60	C
ATOM	2267	CB	SER	290	14.979	51.956	-25.409	1.00	63.60	C
ATOM	2268	OG	SER	290	14.165	51.729	-24.267	1.00	63.60	O
ATOM	2269	C	SER	290	17.184	51.579	-26.415	1.00	63.60	C
ATOM	2270	O	SER	290	17.425	50.604	-27.128	1.00	63.60	O
ATOM	2271	N	GLY	291	17.530	52.838	-26.769	1.00	66.84	N
ATOM	2272	CA	GLY	291	18.240	53.055	-27.998	1.00	66.84	C
ATOM	2273	C	GLY	291	19.681	52.626	-27.974	1.00	66.84	C
ATOM	2274	O	GLY	291	20.070	51.680	-28.651	1.00	66.84	O
ATOM	2275	N	GLU	292	20.499	53.253	-27.112	1.00	136.19	N
ATOM	2276	CA	GLU	292	21.921	53.041	-27.111	1.00	136.19	C
ATOM	2277	CB	GLU	292	22.681	54.368	-27.283	1.00	136.19	C
ATOM	2278	CG	GLU	292	24.202	54.253	-27.291	1.00	136.19	C
ATOM	2279	CD	GLU	292	24.762	55.668	-27.238	1.00	136.19	C
ATOM	2280	OE1	GLU	292	24.320	56.441	-26.346	1.00	136.19	O
ATOM	2281	OE2	GLU	292	25.631	55.997	-28.089	1.00	136.19	O
ATOM	2282	C	GLU	292	22.260	52.532	-25.757	1.00	136.19	C
ATOM	2283	O	GLU	292	21.357	52.439	-24.934	1.00	136.19	O
ATOM	2284	N	TYR	293	23.530	52.100	-25.544	1.00	107.92	N
ATOM	2285	CA	TYR	293	24.072	51.757	-24.250	1.00	107.92	C
ATOM	2286	CB	TYR	293	24.426	53.044	-23.472	1.00	107.92	C
ATOM	2287	CG	TYR	293	25.179	52.751	-22.221	1.00	107.92	C

ATOM	2288	CD1	TYR	293	26.485	52.323	-22.283	1.00107.92	C
ATOM	2289	CD2	TYR	293	24.601	52.947	-20.988	1.00107.92	C
ATOM	2290	CE1	TYR	293	27.193	52.063	-21.135	1.00107.92	C
ATOM	2291	CE2	TYR	293	25.305	52.690	-19.835	1.00107.92	C
ATOM	2292	CZ	TYR	293	26.603	52.243	-19.908	1.00107.92	C
ATOM	2293	OH	TYR	293	27.330	51.976	-18.729	1.00107.92	O
ATOM	2294	C	TYR	293	23.068	50.942	-23.475	1.00107.92	C
ATOM	2295	O	TYR	293	22.794	51.241	-22.314	1.00107.92	O
ATOM	2296	N	SER	294	22.502	49.879	-24.093	1.00100.26	N
ATOM	2297	CA	SER	294	21.402	49.175	-23.478	1.00100.26	C
ATOM	2298	CB	SER	294	20.560	48.392	-24.501	1.00100.26	C
ATOM	2299	OG	SER	294	20.109	49.249	-25.539	1.00100.26	O
ATOM	2300	C	SER	294	21.901	48.144	-22.507	1.00100.26	C
ATOM	2301	O	SER	294	21.810	46.943	-22.762	1.00100.26	O
ATOM	2302	N	ILE	295	22.521	48.609	-21.409	1.00195.97	N
ATOM	2303	CA	ILE	295	23.008	47.842	-20.292	1.00195.97	C
ATOM	2304	CB	ILE	295	24.312	48.397	-19.809	1.00195.97	C
ATOM	2305	CG1	ILE	295	24.260	49.933	-19.851	1.00195.97	C
ATOM	2306	CG2	ILE	295	25.434	47.789	-20.671	1.00195.97	C
ATOM	2307	CD1	ILE	295	23.076	50.564	-19.131	1.00195.97	C
ATOM	2308	C	ILE	295	22.080	47.517	-19.137	1.00195.97	C
ATOM	2309	O	ILE	295	22.170	46.433	-18.560	1.00195.97	O
ATOM	2310	N	GLY	296	21.231	48.471	-18.679	1.00 80.35	N
ATOM	2311	CA	GLY	296	20.477	48.281	-17.456	1.00 80.35	C
ATOM	2312	C	GLY	296	21.481	48.570	-16.369	1.00 80.35	C
ATOM	2313	O	GLY	296	21.260	48.310	-15.185	1.00 80.35	O
ATOM	2314	N	GLN	297	22.682	48.963	-16.843	1.00174.84	N
ATOM	2315	CA	GLN	297	23.903	49.351	-16.204	1.00174.84	C
ATOM	2316	CB	GLN	297	25.173	48.851	-16.901	1.00174.84	C
ATOM	2317	CG	GLN	297	26.293	48.803	-15.870	1.00174.84	C
ATOM	2318	CD	GLN	297	25.663	48.086	-14.677	1.00174.84	C
ATOM	2319	OE1	GLN	297	25.311	46.910	-14.758	1.00174.84	O
ATOM	2320	NE2	GLN	297	25.477	48.821	-13.549	1.00174.84	N
ATOM	2321	C	GLN	297	24.026	50.815	-15.950	1.00174.84	C
ATOM	2322	O	GLN	297	24.968	51.251	-15.295	1.00174.84	O
ATOM	2323	N	VAL	298	23.148	51.653	-16.531	1.00 93.46	N
ATOM	2324	CA	VAL	298	23.227	53.073	-16.300	1.00 93.46	C
ATOM	2325	CB	VAL	298	22.134	53.827	-16.977	1.00 93.46	C
ATOM	2326	CG1	VAL	298	22.415	53.879	-18.488	1.00 93.46	C
ATOM	2327	CG2	VAL	298	20.840	53.078	-16.642	1.00 93.46	C
ATOM	2328	C	VAL	298	23.107	53.270	-14.824	1.00 93.46	C
ATOM	2329	O	VAL	298	23.560	54.273	-14.274	1.00 93.46	O
ATOM	2330	N	LEU	299	22.508	52.272	-14.152	1.00123.55	N
ATOM	2331	CA	LEU	299	22.291	52.280	-12.746	1.00123.55	C
ATOM	2332	CB	LEU	299	21.934	50.869	-12.250	1.00123.55	C
ATOM	2333	CG	LEU	299	21.709	50.756	-10.734	1.00123.55	C
ATOM	2334	CD1	LEU	299	20.449	51.518	-10.297	1.00123.55	C
ATOM	2335	CD2	LEU	299	21.718	49.285	-10.284	1.00123.55	C
ATOM	2336	C	LEU	299	23.553	52.675	-12.049	1.00123.55	C
ATOM	2337	O	LEU	299	23.563	53.742	-11.442	1.00123.55	O
ATOM	2338	N	THR	300	24.669	51.929	-12.221	1.00 80.20	N
ATOM	2339	CA	THR	300	25.856	52.236	-11.465	1.00 80.20	C
ATOM	2340	CB	THR	300	27.045	51.423	-11.829	1.00 80.20	C
ATOM	2341	OG1	THR	300	26.772	50.073	-11.535	1.00 80.20	O
ATOM	2342	CG2	THR	300	28.262	51.918	-11.027	1.00 80.20	C
ATOM	2343	C	THR	300	26.267	53.646	-11.679	1.00 80.20	C
ATOM	2344	O	THR	300	26.600	54.337	-10.718	1.00 80.20	O
ATOM	2345	N	VAL	301	26.253	54.114	-12.935	1.00 99.48	N
ATOM	2346	CA	VAL	301	26.718	55.449	-13.172	1.00 99.48	C
ATOM	2347	CB	VAL	301	26.672	55.804	-14.625	1.00 99.48	C
ATOM	2348	CG1	VAL	301	27.332	57.180	-14.818	1.00 99.48	C
ATOM	2349	CG2	VAL	301	27.277	54.648	-15.436	1.00 99.48	C
ATOM	2350	C	VAL	301	25.857	56.456	-12.455	1.00 99.48	C
ATOM	2351	O	VAL	301	26.268	56.998	-11.433	1.00 99.48	O
ATOM	2352	N	PHE	302	24.586	56.622	-12.889	1.00101.79	N
ATOM	2353	CA	PHE	302	23.734	57.663	-12.365	1.00101.79	C
ATOM	2354	CB	PHE	302	22.296	57.578	-12.906	1.00101.79	C
ATOM	2355	CG	PHE	302	22.224	57.951	-14.348	1.00101.79	C
ATOM	2356	CD1	PHE	302	22.574	57.052	-15.327	1.00101.79	C
ATOM	2357	CD2	PHE	302	21.775	59.198	-14.721	1.00101.79	C
ATOM	2358	CE1	PHE	302	22.495	57.398	-16.655	1.00101.79	C
ATOM	2359	CE2	PHE	302	21.694	59.550	-16.048	1.00101.79	C
ATOM	2360	CZ	PHE	302	22.056	58.649	-17.019	1.00101.79	C
ATOM	2361	C	PHE	302	23.636	57.512	-10.875	1.00101.79	C



ATOM	2362	O	PHE	302	23.872	58.461	-10.130	1.00101.79	O
ATOM	2363	N	PHE	303	23.361	56.290	-10.394	1.00 96.39	N
ATOM	2364	CA	PHE	303	23.185	56.029	-8.994	1.00 96.39	C
ATOM	2365	CB	PHE	303	22.982	54.518	-8.759	1.00 96.39	C
ATOM	2366	CG	PHE	303	22.684	54.209	-7.330	1.00 96.39	C
ATOM	2367	CD1	PHE	303	21.406	54.353	-6.841	1.00 96.39	C
ATOM	2368	CD2	PHE	303	23.674	53.770	-6.480	1.00 96.39	C
ATOM	2369	CE1	PHE	303	21.118	54.066	-5.527	1.00 96.39	C
ATOM	2370	CE2	PHE	303	23.392	53.480	-5.165	1.00 96.39	C
ATOM	2371	CZ	PHE	303	22.112	53.627	-4.685	1.00 96.39	C
ATOM	2372	C	PHE	303	24.415	56.492	-8.263	1.00 96.39	C
ATOM	2373	O	PHE	303	24.315	57.102	-7.199	1.00 96.39	O
ATOM	2374	N	SER	304	25.609	56.209	-8.817	1.00 50.43	N
ATOM	2375	CA	SER	304	26.865	56.573	-8.218	1.00 50.43	C
ATOM	2376	CB	SER	304	28.072	55.995	-8.976	1.00 50.43	C
ATOM	2377	OG	SER	304	29.281	56.384	-8.341	1.00 50.43	O
ATOM	2378	C	SER	304	27.041	58.065	-8.166	1.00 50.43	C
ATOM	2379	O	SER	304	27.529	58.590	-7.167	1.00 50.43	O
ATOM	2380	N	VAL	305	26.650	58.805	-9.223	1.00106.49	N
ATOM	2381	CA	VAL	305	26.842	60.231	-9.181	1.00106.49	C
ATOM	2382	CB	VAL	305	26.369	60.954	-10.415	1.00106.49	C
ATOM	2383	CG1	VAL	305	24.834	61.002	-10.428	1.00106.49	C
ATOM	2384	CG2	VAL	305	27.019	62.347	-10.430	1.00106.49	C
ATOM	2385	C	VAL	305	26.046	60.731	-8.013	1.00106.49	C
ATOM	2386	O	VAL	305	26.446	61.659	-7.310	1.00106.49	O
ATOM	2387	N	LEU	306	24.901	60.075	-7.757	1.00 82.90	N
ATOM	2388	CA	LEU	306	24.015	60.447	-6.695	1.00 82.90	C
ATOM	2389	CB	LEU	306	22.858	59.442	-6.551	1.00 82.90	C
ATOM	2390	CG	LEU	306	21.779	59.861	-5.538	1.00 82.90	C
ATOM	2391	CD1	LEU	306	20.890	60.977	-6.112	1.00 82.90	C
ATOM	2392	CD2	LEU	306	20.987	58.652	-5.018	1.00 82.90	C
ATOM	2393	C	LEU	306	24.795	60.377	-5.418	1.00 82.90	C
ATOM	2394	O	LEU	306	24.730	61.279	-4.584	1.00 82.90	O
ATOM	2395	N	ILE	307	25.611	59.319	-5.266	1.00 99.02	N
ATOM	2396	CA	ILE	307	26.386	59.129	-4.076	1.00 99.02	C
ATOM	2397	CB	ILE	307	27.308	57.948	-4.155	1.00 99.02	C
ATOM	2398	CG1	ILE	307	26.505	56.648	-4.334	1.00 99.02	C
ATOM	2399	CG2	ILE	307	28.187	57.958	-2.893	1.00 99.02	C
ATOM	2400	CD1	ILE	307	25.537	56.361	-3.187	1.00 99.02	C
ATOM	2401	C	ILE	307	27.227	60.350	-3.923	1.00 99.02	C
ATOM	2402	O	ILE	307	27.485	60.802	-2.808	1.00 99.02	O
ATOM	2403	N	GLY	308	27.684	60.913	-5.054	1.00 38.59	N
ATOM	2404	CA	GLY	308	28.536	62.064	-5.013	1.00 38.59	C
ATOM	2405	C	GLY	308	27.852	63.216	-4.332	1.00 38.59	C
ATOM	2406	O	GLY	308	28.454	63.897	-3.503	1.00 38.59	O
ATOM	2407	N	ALA	309	26.571	63.480	-4.645	1.00 50.91	N
ATOM	2408	CA	ALA	309	25.970	64.639	-4.051	1.00 50.91	C
ATOM	2409	CB	ALA	309	24.525	64.873	-4.521	1.00 50.91	C
ATOM	2410	C	ALA	309	25.940	64.475	-2.562	1.00 50.91	C
ATOM	2411	O	ALA	309	26.381	65.352	-1.820	1.00 50.91	O
ATOM	2412	N	PHE	310	25.501	63.296	-2.087	1.00110.83	N
ATOM	2413	CA	PHE	310	25.321	63.086	-0.680	1.00110.83	C
ATOM	2414	CB	PHE	310	24.730	61.703	-0.364	1.00110.83	C
ATOM	2415	CG	PHE	310	23.366	61.714	-0.970	1.00110.83	C
ATOM	2416	CD1	PHE	310	23.184	61.347	-2.283	1.00110.83	C
ATOM	2417	CD2	PHE	310	22.272	62.109	-0.236	1.00110.83	C
ATOM	2418	CE1	PHE	310	21.931	61.363	-2.849	1.00110.83	C
ATOM	2419	CE2	PHE	310	21.016	62.127	-0.797	1.00110.83	C
ATOM	2420	CZ	PHE	310	20.842	61.752	-2.106	1.00110.83	C
ATOM	2421	C	PHE	310	26.628	63.258	0.027	1.00110.83	C
ATOM	2422	O	PHE	310	26.689	63.850	1.104	1.00110.83	O
ATOM	2423	N	SER	311	27.719	62.754	-0.568	1.00 57.17	N
ATOM	2424	CA	SER	311	29.001	62.862	0.063	1.00 57.17	C
ATOM	2425	CB	SER	311	30.072	62.081	-0.714	1.00 57.17	C
ATOM	2426	OG	SER	311	29.923	62.306	-2.108	1.00 57.17	O
ATOM	2427	C	SER	311	29.373	64.307	0.216	1.00 57.17	C
ATOM	2428	O	SER	311	30.062	64.679	1.166	1.00 57.17	O
ATOM	2429	N	VAL	312	28.900	65.175	-0.696	1.00 40.09	N
ATOM	2430	CA	VAL	312	29.201	66.573	-0.577	1.00 40.09	C
ATOM	2431	CB	VAL	312	28.577	67.397	-1.662	1.00 40.09	C
ATOM	2432	CG1	VAL	312	28.871	68.879	-1.374	1.00 40.09	C
ATOM	2433	CG2	VAL	312	29.093	66.899	-3.022	1.00 40.09	C
ATOM	2434	C	VAL	312	28.610	67.031	0.712	1.00 40.09	C
ATOM	2435	O	VAL	312	29.160	67.893	1.398	1.00 40.09	O

ATOM	2436	N	GLY	313	27.440	66.473	1.065	1.00	46.36	N
ATOM	2437	CA	GLY	313	26.808	66.904	2.271	1.00	46.36	C
ATOM	2438	C	GLY	313	27.672	66.579	3.451	1.00	46.36	C
ATOM	2439	O	GLY	313	27.964	67.447	4.265	1.00	46.36	O
ATOM	2440	N	GLN	314	28.174	65.340	3.550	1.00	120.96	N
ATOM	2441	CA	GLN	314	28.907	64.951	4.723	1.00	120.96	C
ATOM	2442	CB	GLN	314	29.395	63.497	4.640	1.00	120.96	C
ATOM	2443	CG	GLN	314	29.869	62.951	5.982	1.00	120.96	C
ATOM	2444	CD	GLN	314	28.622	62.775	6.834	1.00	120.96	C
ATOM	2445	OE1	GLN	314	27.650	63.516	6.694	1.00	120.96	O
ATOM	2446	NE2	GLN	314	28.641	61.757	7.736	1.00	120.96	N
ATOM	2447	C	GLN	314	30.106	65.826	4.845	1.00	120.96	C
ATOM	2448	O	GLN	314	30.501	66.232	5.940	1.00	120.96	O
ATOM	2449	N	ALA	315	30.704	66.160	3.695	1.00	37.54	N
ATOM	2450	CA	ALA	315	31.885	66.956	3.704	1.00	37.54	C
ATOM	2451	CB	ALA	315	32.393	67.270	2.288	1.00	37.54	C
ATOM	2452	C	ALA	315	31.566	68.258	4.372	1.00	37.54	C
ATOM	2453	O	ALA	315	32.379	68.777	5.134	1.00	37.54	O
ATOM	2454	N	SER	316	30.363	68.811	4.123	1.00	91.69	N
ATOM	2455	CA	SER	316	30.034	70.114	4.635	1.00	91.69	C
ATOM	2456	CB	SER	316	28.635	70.599	4.205	1.00	91.69	C
ATOM	2457	OG	SER	316	28.579	70.742	2.793	1.00	91.69	O
ATOM	2458	C	SER	316	30.126	70.166	6.135	1.00	91.69	C
ATOM	2459	O	SER	316	30.834	71.037	6.640	1.00	91.69	O
ATOM	2460	N	PRO	317	29.494	69.323	6.914	1.00	76.46	N
ATOM	2461	CA	PRO	317	29.686	69.501	8.323	1.00	76.46	C
ATOM	2462	CD	PRO	317	28.129	68.901	6.648	1.00	76.46	C
ATOM	2463	CB	PRO	317	28.632	68.639	9.009	1.00	76.46	C
ATOM	2464	CG	PRO	317	27.459	68.692	8.017	1.00	76.46	C
ATOM	2465	C	PRO	317	31.087	69.293	8.795	1.00	76.46	C
ATOM	2466	O	PRO	317	31.484	69.934	9.766	1.00	76.46	O
ATOM	2467	N	SER	318	31.865	68.416	8.141	1.00	32.23	N
ATOM	2468	CA	SER	318	33.202	68.204	8.609	1.00	32.23	C
ATOM	2469	CB	SER	318	33.950	67.126	7.806	1.00	32.23	C
ATOM	2470	OG	SER	318	33.319	65.864	7.966	1.00	32.23	O
ATOM	2471	C	SER	318	33.948	69.492	8.451	1.00	32.23	C
ATOM	2472	O	SER	318	34.712	69.894	9.328	1.00	32.23	O
ATOM	2473	N	ILE	319	33.713	70.186	7.324	1.00	38.98	N
ATOM	2474	CA	ILE	319	34.402	71.405	7.008	1.00	38.98	C
ATOM	2475	CB	ILE	319	34.004	71.959	5.676	1.00	38.98	C
ATOM	2476	CG1	ILE	319	34.393	70.975	4.561	1.00	38.98	C
ATOM	2477	CG2	ILE	319	34.645	73.349	5.531	1.00	38.98	C
ATOM	2478	CD1	ILE	319	33.749	71.288	3.214	1.00	38.98	C
ATOM	2479	C	ILE	319	34.070	72.429	8.036	1.00	38.98	C
ATOM	2480	O	ILE	319	34.952	73.152	8.499	1.00	38.98	O
ATOM	2481	N	GLU	320	32.785	72.496	8.435	1.00	42.75	N
ATOM	2482	CA	GLU	320	32.378	73.485	9.386	1.00	42.75	C
ATOM	2483	CB	GLU	320	30.918	73.333	9.841	1.00	42.75	C
ATOM	2484	CG	GLU	320	30.511	74.401	10.858	1.00	42.75	C
ATOM	2485	CD	GLU	320	29.171	74.009	11.464	1.00	42.75	C
ATOM	2486	OE1	GLU	320	28.683	72.890	11.155	1.00	42.75	O
ATOM	2487	OE2	GLU	320	28.621	74.824	12.251	1.00	42.75	O
ATOM	2488	C	GLU	320	33.210	73.284	10.604	1.00	42.75	C
ATOM	2489	O	GLU	320	33.705	74.238	11.199	1.00	42.75	O
ATOM	2490	N	ALA	321	33.433	72.017	10.976	1.00	42.82	N
ATOM	2491	CA	ALA	321	34.169	71.759	12.173	1.00	42.82	C
ATOM	2492	CB	ALA	321	34.339	70.258	12.439	1.00	42.82	C
ATOM	2493	C	ALA	321	35.538	72.361	12.062	1.00	42.82	C
ATOM	2494	O	ALA	321	36.002	73.019	12.992	1.00	42.82	O
ATOM	2495	N	PHE	322	36.209	72.194	10.907	1.00	116.77	N
ATOM	2496	CA	PHE	322	37.558	72.670	10.776	1.00	116.77	C
ATOM	2497	CB	PHE	322	38.133	72.433	9.366	1.00	116.77	C
ATOM	2498	CG	PHE	322	39.566	72.856	9.353	1.00	116.77	C
ATOM	2499	CD1	PHE	322	39.920	74.181	9.225	1.00	116.77	C
ATOM	2500	CD2	PHE	322	40.565	71.915	9.455	1.00	116.77	C
ATOM	2501	CE1	PHE	322	41.240	74.563	9.212	1.00	116.77	C
ATOM	2502	CE2	PHE	322	41.888	72.289	9.440	1.00	116.77	C
ATOM	2503	CZ	PHE	322	42.228	73.615	9.320	1.00	116.77	C
ATOM	2504	C	PHE	322	37.582	74.146	11.008	1.00	116.77	C
ATOM	2505	O	PHE	322	38.311	74.634	11.867	1.00	116.77	O
ATOM	2506	N	ALA	323	36.732	74.895	10.288	1.00	39.39	N
ATOM	2507	CA	ALA	323	36.778	76.328	10.344	1.00	39.39	C
ATOM	2508	CB	ALA	323	35.713	76.989	9.452	1.00	39.39	C
ATOM	2509	C	ALA	323	36.531	76.786	11.746	1.00	39.39	C

ATOM	2510	O	ALA	323	37.187	77.715	12.216	1.00	39.39	O
ATOM	2511	N	ASN	324	35.581	76.144	12.455	1.00	48.70	N
ATOM	2512	CA	ASN	324	35.237	76.570	13.784	1.00	48.70	C
ATOM	2513	CB	ASN	324	34.138	75.707	14.434	1.00	48.70	C
ATOM	2514	CG	ASN	324	32.816	75.937	13.717	1.00	48.70	C
ATOM	2515	OD1	ASN	324	32.778	76.206	12.518	1.00	48.70	O
ATOM	2516	ND2	ASN	324	31.693	75.823	14.475	1.00	48.70	N
ATOM	2517	C	ASN	324	36.431	76.436	14.670	1.00	48.70	C
ATOM	2518	O	ASN	324	36.784	77.366	15.394	1.00	48.70	O
ATOM	2519	N	ALA	325	37.104	75.273	14.610	1.00	43.51	N
ATOM	2520	CA	ALA	325	38.221	75.016	15.467	1.00	43.51	C
ATOM	2521	CB	ALA	325	38.837	73.627	15.234	1.00	43.51	C
ATOM	2522	C	ALA	325	39.269	76.029	15.172	1.00	43.51	C
ATOM	2523	O	ALA	325	39.938	76.511	16.084	1.00	43.51	O
ATOM	2524	N	ARG	326	39.452	76.363	13.882	1.00	113.52	N
ATOM	2525	CA	ARG	326	40.468	77.309	13.541	1.00	113.52	C
ATOM	2526	CB	ARG	326	40.585	77.549	12.027	1.00	113.52	C
ATOM	2527	CG	ARG	326	41.839	78.333	11.629	1.00	113.52	C
ATOM	2528	CD	ARG	326	42.037	78.428	10.115	1.00	113.52	C
ATOM	2529	NE	ARG	326	41.794	79.840	9.707	1.00	113.52	N
ATOM	2530	CZ	ARG	326	41.078	80.116	8.578	1.00	113.52	C
ATOM	2531	NH1	ARG	326	40.442	79.110	7.909	1.00	113.52	N
ATOM	2532	NH2	ARG	326	40.998	81.400	8.119	1.00	113.52	N
ATOM	2533	C	ARG	326	40.147	78.621	14.173	1.00	113.52	C
ATOM	2534	O	ARG	326	40.952	79.147	14.937	1.00	113.52	O
ATOM	2535	N	GLY	327	38.920	79.133	13.954	1.00	35.77	N
ATOM	2536	CA	GLY	327	38.582	80.445	14.428	1.00	35.77	C
ATOM	2537	C	GLY	327	38.774	80.466	15.905	1.00	35.77	C
ATOM	2538	O	GLY	327	39.327	81.418	16.457	1.00	35.77	O
ATOM	2539	N	ALA	328	38.335	79.397	16.588	1.00	74.52	N
ATOM	2540	CA	ALA	328	38.473	79.431	18.005	1.00	74.52	C
ATOM	2541	CB	ALA	328	37.875	78.187	18.684	1.00	74.52	C
ATOM	2542	C	ALA	328	39.919	79.491	18.379	1.00	74.52	C
ATOM	2543	O	ALA	328	40.355	80.494	18.937	1.00	74.52	O
ATOM	2544	N	ALA	329	40.726	78.481	17.982	1.00	107.06	N
ATOM	2545	CA	ALA	329	42.088	78.463	18.430	1.00	107.06	C
ATOM	2546	CB	ALA	329	42.923	77.300	17.872	1.00	107.06	C
ATOM	2547	C	ALA	329	42.762	79.659	17.922	1.00	107.06	C
ATOM	2548	O	ALA	329	43.040	80.516	18.723	1.00	107.06	O
ATOM	2549	N	TYR	330	42.834	79.879	16.605	1.00	173.07	N
ATOM	2550	CA	TYR	330	43.688	80.893	16.054	1.00	173.07	C
ATOM	2551	CB	TYR	330	43.493	80.971	14.529	1.00	173.07	C
ATOM	2552	CG	TYR	330	43.916	82.314	14.062	1.00	173.07	C
ATOM	2553	CD1	TYR	330	45.226	82.593	13.753	1.00	173.07	C
ATOM	2554	CD2	TYR	330	42.968	83.302	13.944	1.00	173.07	C
ATOM	2555	CE1	TYR	330	45.582	83.851	13.327	1.00	173.07	C
ATOM	2556	CE2	TYR	330	43.319	84.560	13.518	1.00	173.07	C
ATOM	2557	CZ	TYR	330	44.629	84.834	13.209	1.00	173.07	C
ATOM	2558	OH	TYR	330	44.993	86.125	12.772	1.00	173.07	O
ATOM	2559	C	TYR	330	43.467	82.255	16.651	1.00	173.07	C
ATOM	2560	O	TYR	330	44.434	82.896	17.061	1.00	173.07	O
ATOM	2561	N	GLU	331	42.217	82.746	16.731	1.00	64.70	N
ATOM	2562	CA	GLU	331	42.019	84.076	17.252	1.00	64.70	C
ATOM	2563	CB	GLU	331	40.552	84.528	17.141	1.00	64.70	C
ATOM	2564	CG	GLU	331	40.078	84.734	15.702	1.00	64.70	C
ATOM	2565	CD	GLU	331	38.572	84.959	15.734	1.00	64.70	C
ATOM	2566	OE1	GLU	331	37.837	83.999	16.088	1.00	64.70	O
ATOM	2567	OE2	GLU	331	38.136	86.094	15.406	1.00	64.70	O
ATOM	2568	C	GLU	331	42.388	84.133	18.708	1.00	64.70	C
ATOM	2569	O	GLU	331	43.207	84.947	19.131	1.00	64.70	O
ATOM	2570	N	ILE	332	41.811	83.215	19.499	1.00	131.16	N
ATOM	2571	CA	ILE	332	41.944	83.115	20.927	1.00	131.16	C
ATOM	2572	CB	ILE	332	41.100	82.076	21.597	1.00	131.16	C
ATOM	2573	CG1	ILE	332	41.662	80.675	21.315	1.00	131.16	C
ATOM	2574	CG2	ILE	332	39.650	82.276	21.127	1.00	131.16	C
ATOM	2575	CD1	ILE	332	41.061	79.583	22.197	1.00	131.16	C
ATOM	2576	C	ILE	332	43.333	82.695	21.257	1.00	131.16	C
ATOM	2577	O	ILE	332	43.615	82.447	22.422	1.00	131.16	O
ATOM	2578	N	PHE	333	44.048	82.245	20.214	1.00	161.46	N
ATOM	2579	CA	PHE	333	45.397	81.756	20.111	1.00	161.46	C
ATOM	2580	CB	PHE	333	45.691	81.061	18.767	1.00	161.46	C
ATOM	2581	CG	PHE	333	47.045	80.450	18.760	1.00	161.46	C
ATOM	2582	CD1	PHE	333	48.147	81.207	18.444	1.00	161.46	C
ATOM	2583	CD2	PHE	333	47.207	79.114	19.051	1.00	161.46	C

ATOM	2584	CE1	PHE	333	49.398	80.639	18.428	1.00161.46	C
ATOM	2585	CE2	PHE	333	48.457	78.542	19.037	1.00161.46	C
ATOM	2586	CZ	PHE	333	49.555	79.307	18.726	1.00161.46	C
ATOM	2587	C	PHE	333	46.290	82.925	20.139	1.00161.46	C
ATOM	2588	O	PHE	333	47.360	82.893	20.731	1.00161.46	O
ATOM	2589	N	LYS	334	45.886	83.997	19.442	1.00 90.11	N
ATOM	2590	CA	LYS	334	46.676	85.177	19.523	1.00 90.11	C
ATOM	2591	CB	LYS	334	46.116	86.344	18.689	1.00 90.11	C
ATOM	2592	CG	LYS	334	46.273	86.135	17.180	1.00 90.11	C
ATOM	2593	CD	LYS	334	45.468	87.115	16.325	1.00 90.11	C
ATOM	2594	CE	LYS	334	43.995	86.729	16.176	1.00 90.11	C
ATOM	2595	NZ	LYS	334	43.303	87.701	15.302	1.00 90.11	N
ATOM	2596	C	LYS	334	46.558	85.499	20.951	1.00 90.11	C
ATOM	2597	O	LYS	334	47.502	85.970	21.574	1.00 90.11	O
ATOM	2598	N	ILE	335	45.361	85.212	21.489	1.00 76.75	N
ATOM	2599	CA	ILE	335	45.088	85.336	22.877	1.00 76.75	C
ATOM	2600	CB	ILE	335	43.651	85.066	23.222	1.00 76.75	C
ATOM	2601	CG1	ILE	335	42.723	86.059	22.504	1.00 76.75	C
ATOM	2602	CG2	ILE	335	43.516	85.105	24.752	1.00 76.75	C
ATOM	2603	CD1	ILE	335	41.244	85.679	22.579	1.00 76.75	C
ATOM	2604	C	ILE	335	45.933	84.331	23.594	1.00 76.75	C
ATOM	2605	O	ILE	335	46.440	84.600	24.683	1.00 76.75	O
ATOM	2606	N	ILE	336	46.060	83.117	23.018	1.00134.87	N
ATOM	2607	CA	ILE	336	46.773	82.077	23.699	1.00134.87	C
ATOM	2608	CB	ILE	336	46.611	80.753	23.009	1.00134.87	C
ATOM	2609	CG1	ILE	336	45.153	80.275	23.124	1.00134.87	C
ATOM	2610	CG2	ILE	336	47.656	79.773	23.568	1.00134.87	C
ATOM	2611	CD1	ILE	336	44.820	79.096	22.212	1.00134.87	C
ATOM	2612	C	ILE	336	48.248	82.360	23.794	1.00134.87	C
ATOM	2613	O	ILE	336	48.736	82.784	24.840	1.00134.87	O
ATOM	2614	N	ASP	337	48.965	82.304	22.655	1.00144.01	N
ATOM	2615	CA	ASP	337	50.391	82.394	22.670	1.00144.01	C
ATOM	2616	CB	ASP	337	51.056	82.330	21.279	1.00144.01	C
ATOM	2617	CG	ASP	337	51.123	80.881	20.806	1.00144.01	C
ATOM	2618	OD1	ASP	337	50.421	80.019	21.399	1.00144.01	O
ATOM	2619	OD2	ASP	337	51.897	80.614	19.847	1.00144.01	O
ATOM	2620	C	ASP	337	50.852	83.692	23.320	1.00144.01	C
ATOM	2621	O	ASP	337	51.593	83.642	24.301	1.00144.01	O
ATOM	2622	N	ASN	338	50.341	84.870	22.883	1.00185.75	N
ATOM	2623	CA	ASN	338	50.856	86.178	23.266	1.00185.75	C
ATOM	2624	CB	ASN	338	49.940	87.373	22.901	1.00185.75	C
ATOM	2625	CG	ASN	338	48.589	87.414	23.633	1.00185.75	C
ATOM	2626	OD1	ASN	338	47.626	87.954	23.099	1.00185.75	O
ATOM	2627	ND2	ASN	338	48.469	86.897	24.880	1.00185.75	N
ATOM	2628	C	ASN	338	51				

ATOM	2658	C	ILE	342	52.943	95.141	33.173	1.00230.37
ATOM	2659	O	ILE	342	53.596	95.731	34.037	1.00230.37
ATOM	2660	N	ASP	343	51.621	95.003	33.262	1.00166.65
ATOM	2661	CA	ASP	343	50.791	95.596	34.268	1.00166.65
ATOM	2662	CB	ASP	343	49.297	95.375	33.974	1.00166.65
ATOM	2663	CG	ASP	343	49.037	93.880	33.877	1.00166.65
ATOM	2664	OD1	ASP	343	49.352	93.148	34.853	1.00166.65
ATOM	2665	OD2	ASP	343	48.513	93.453	32.813	1.00166.65
ATOM	2666	C	ASP	343	51.100	95.106	35.646	1.00166.65
ATOM	2667	O	ASP	343	50.485	95.569	36.603	1.00166.65
ATOM	2668	N	SER	344	51.965	94.091	35.796	1.00259.67
ATOM	2669	CA	SER	344	52.207	93.582	37.114	1.00259.67
ATOM	2670	CB	SER	344	51.229	92.460	37.490	1.00259.67
ATOM	2671	OG	SER	344	49.889	92.907	37.378	1.00259.67
ATOM	2672	C	SER	344	53.541	92.936	37.123	1.00259.67
ATOM	2673	O	SER	344	54.471	93.438	37.756	1.00259.67
ATOM	2674	N	TYR	345	53.619	91.749	36.475	1.00301.41
ATOM	2675	CA	TYR	345	54.868	91.069	36.371	1.00301.41
ATOM	2676	CB	TYR	345	56.023	92.014	35.986	1.00301.41
ATOM	2677	CG	TYR	345	57.177	91.215	35.483	1.00301.41
ATOM	2678	CD1	TYR	345	56.968	90.029	34.817	1.00301.41
ATOM	2679	CD2	TYR	345	58.468	91.638	35.692	1.00301.41
ATOM	2680	CE1	TYR	345	58.027	89.287	34.349	1.00301.41
ATOM	2681	CE2	TYR	345	59.528	90.901	35.220	1.00301.41
ATOM	2682	CZ	TYR	345	59.312	89.726	34.548	1.00301.41
ATOM	2683	OH	TYR	345	60.405	88.973	34.069	1.00301.41
ATOM	2684	C	TYR	345	55.081	90.398	37.683	1.00301.41
ATOM	2685	O	TYR	345	54.265	90.551	38.589	1.00301.41
ATOM	2686	N	SER	346	56.045	89.464	37.750	1.00275.42
ATOM	2687	CA	SER	346	56.402	88.927	39.015	1.00275.42
ATOM	2688	CB	SER	346	55.855	87.510	39.244	1.00275.42
ATOM	2689	OG	SER	346	54.435	87.534	39.249	1.00275.42
ATOM	2690	C	SER	346	57.887	88.831	38.975	1.00275.42
ATOM	2691	O	SER	346	58.408	87.750	38.708	1.00275.42
ATOM	2692	N	LYS	347	58.583	89.959	39.270	1.00246.75
ATOM	2693	CA	LYS	347	60.018	90.061	39.199	1.00246.75
ATOM	2694	CB	LYS	347	60.548	90.778	37.962	1.00246.75
ATOM	2695	CG	LYS	347	60.229	92.271	38.005	1.00246.75
ATOM	2696	CD	LYS	347	61.082	93.126	37.073	1.00246.75
ATOM	2697	CE	LYS	347	61.023	94.609	37.432	1.00246.75
ATOM	2698	NZ	LYS	347	59.630	94.992	37.748	1.00246.75
ATOM	2699	C	LYS	347	60.503	90.954	40.352	1.00246.75
ATOM	2700	O	LYS	347	59.765	91.183	41.304	1.00246.75
ATOM	2701	N	SER	348	61.745	91.527	40.264	1.00182.34
ATOM	2702	CA	SER	348	62.455	92.307	41.284	1.00182.34
ATOM	2703	CB	SER	348	63.876	92.708	40.846	1.00182.34
ATOM	2704	OG	SER	348	63.813	93.529	39.689	1.00182.34
ATOM	2705	C	SER	348	61.730	93.577	41.708	1.00182.34
ATOM	2706	O	SER	348	60.599	93.826	41.310	1.00182.34
ATOM	2707	N	GLY	349	62.316	94.417	42.606	1.00 93.58
ATOM	2708	CA	GLY	349	61.560	95.604	42.958	1.00 93.58
ATOM	2709	C	GLY	349	62.063	96.323	44.203	1.00 93.58
ATOM	2710	O	GLY	349	63.260	96.346	44.493	1.00 93.58
ATOM	2711	N	HIS	350	61.107	96.958	44.946	1.00110.60
ATOM	2712	CA	HIS	350	61.293	97.827	46.105	1.00110.60
ATOM	2713	ND1	HIS	350	59.981	101.360	47.016	1.00110.60
ATOM	2714	CG	HIS	350	60.714	100.196	46.972	1.00110.60
ATOM	2715	CB	HIS	350	60.505	99.140	45.926	1.00110.60
ATOM	2716	NE2	HIS	350	61.427	101.461	48.699	1.00110.60
ATOM	2717	CD2	HIS	350	61.594	100.273	48.008	1.00110.60
ATOM	2718	CE1	HIS	350	60.447	102.080	48.067	1.00110.60
ATOM	2719	C	HIS	350	60.757	97.166	47.359	1.00110.60
ATOM	2720	O	HIS	350	59.835	96.358	47.277	1.00110.60
ATOM	2721	N	LYS	351	61.305	97.472	48.571	1.00133.99
ATOM	2722	CA	LYS	351	60.753	96.801	49.736	1.00133.99
ATOM	2723	CB	LYS	351	61.508	95.514	50.078	1.00133.99
ATOM	2724	CG	LYS	351	61.281	94.471	48.987	1.00133.99
ATOM	2725	CD	LYS	351	62.237	93.287	49.029	1.00133.99
ATOM	2726	CE	LYS	351	61.828	92.165	48.076	1.00133.99
ATOM	2727	NZ	LYS	351	62.834	91.082	48.103	1.00133.99
ATOM	2728	C	LYS	351	60.632	97.646	50.993	1.00133.99
ATOM	2729	O	LYS	351	61.617	98.010	51.637	1.00133.99
ATOM	2730	N	PRO	352	59.406	97.977	51.351	1.00168.42
ATOM	2731	CA	PRO	352	59.083	98.691	52.579	1.00168.42

ATOM	2732	CD	PRO	352	58.318	98.017	50.398	1.00168.42	C
ATOM	2733	CB	PRO	352	57.685	99.262	52.380	1.00168.42	C
ATOM	2734	CG	PRO	352	57.093	98.421	51.236	1.00168.42	C
ATOM	2735	C	PRO	352	59.150	97.795	53.772	1.00168.42	C
ATOM	2736	O	PRO	352	58.122	97.245	54.173	1.00168.42	O
ATOM	2737	N	ASP	353	60.319	97.732	54.415	1.00133.56	N
ATOM	2738	CA	ASP	353	60.548	96.831	55.500	1.00133.56	C
ATOM	2739	CB	ASP	353	62.043	96.601	55.743	1.00133.56	C
ATOM	2740	CG	ASP	353	62.529	95.874	54.491	1.00133.56	C
ATOM	2741	OD1	ASP	353	61.693	95.666	53.570	1.00133.56	O
ATOM	2742	OD2	ASP	353	63.736	95.523	54.434	1.00133.56	O
ATOM	2743	C	ASP	353	59.864	97.285	56.741	1.00133.56	C
ATOM	2744	O	ASP	353	59.558	96.459	57.602	1.00133.56	O
ATOM	2745	N	ASN	354	59.650	98.611	56.880	1.00256.70	N
ATOM	2746	CA	ASN	354	58.925	99.095	58.015	1.00256.70	C
ATOM	2747	CB	ASN	354	58.659	100.609	57.956	1.00256.70	C
ATOM	2748	CG	ASN	354	57.861	100.890	56.690	1.00256.70	C
ATOM	2749	OD1	ASN	354	56.636	100.787	56.686	1.00256.70	O
ATOM	2750	ND2	ASN	354	58.567	101.230	55.578	1.00256.70	N
ATOM	2751	C	ASN	354	57.634	98.368	57.878	1.00256.70	C
ATOM	2752	O	ASN	354	57.045	98.291	56.812	1.00256.70	O
ATOM	2753	N	ILE	355	57.211	97.641	58.898	1.00255.90	N
ATOM	2754	CA	ILE	355	56.056	96.891	58.553	1.00255.90	C
ATOM	2755	CB	ILE	355	55.882	95.788	59.543	1.00255.90	C
ATOM	2756	CG1	ILE	355	57.178	94.960	59.574	1.00255.90	C
ATOM	2757	CG2	ILE	355	54.632	94.982	59.183	1.00255.90	C
ATOM	2758	CD1	ILE	355	57.610	94.461	58.196	1.00255.90	C
ATOM	2759	C	ILE	355	54.775	97.702	58.482	1.00255.90	C
ATOM	2760	O	ILE	355	54.355	98.098	57.400	1.00255.90	O
ATOM	2761	N	LYS	356	54.250	98.152	59.644	1.00196.40	N
ATOM	2762	CA	LYS	356	52.916	98.703	59.812	1.00196.40	C
ATOM	2763	CB	LYS	356	52.583	99.026	61.280	1.00196.40	C
ATOM	2764	CG	LYS	356	52.487	97.800	62.188	1.00196.40	C
ATOM	2765	CD	LYS	356	51.351	96.845	61.818	1.00196.40	C
ATOM	2766	CE	LYS	356	49.965	97.368	62.200	1.00196.40	C
ATOM	2767	NZ	LYS	356	48.938	96.340	61.917	1.00196.40	N
ATOM	2768	C	LYS	356	52.697	99.975	59.057	1.00196.40	C
ATOM	2769	O	LYS	356	53.640	100.663	58.667	1.00196.40	O
ATOM	2770	N	GLY	357	51.398	100.293	58.818	1.00 55.98	N
ATOM	2771	CA	GLY	357	51.039	101.516	58.154	1.00 55.98	C
ATOM	2772	C	GLY	357	49.552	101.591	57.943	1.00 55.98	C
ATOM	2773	O	GLY	357	48.800	100.661	58.234	1.00 55.98	O
ATOM	2774	N	ASN	358	49.090	102.735	57.398	1.00 79.48	N
ATOM	2775	CA	ASN	358	47.684	102.934	57.190	1.00 79.48	C
ATOM	2776	CB	ASN	358	47.167	104.269	57.757	1.00 79.48	C
ATOM	2777	CG	ASN	358	47.363	104.268	59.269	1.00 79.48	C
ATOM	2778	OD1	ASN	358	47.892	103.318	59.843	1.00 79.48	O
ATOM	2779	ND2	ASN	358	46.922	105.364	59.941	1.00 79.48	N
ATOM	2780	C	ASN	358	47.454	102.970	55.719	1.00 79.48	C
ATOM	2781	O	ASN	358	48.310	103.404	54.953	1.00 79.48	O
ATOM	2782	N	LEU	359	46.285	102.468	55.287	1.00136.54	N
ATOM	2783	CA	LEU	359	45.919	102.474	53.907	1.00136.54	C
ATOM	2784	CB	LEU	359	44.692	101.595	53.605	1.00136.54	C
ATOM	2785	CG	LEU	359	44.895	100.097	53.886	1.00136.54	C
ATOM	2786	CD1	LEU	359	45.237	99.844	55.362	1.00136.54	C
ATOM	2787	CD2	LEU	359	43.676	99.284	53.424	1.00136.54	C
ATOM	2788	C	LEU	359	45.500	103.866	53.604	1.00136.54	C
ATOM	2789	O	LEU	359	44.918	104.541	54.451	1.00136.54	O
ATOM	2790	N	GLU	360	45.807	104.347	52.387	1.00144.86	N
ATOM	2791	CA	GLU	360	45.381	105.669	52.066	1.00144.86	C
ATOM	2792	CB	GLU	360	46.530	106.689	52.128	1.00144.86	C
ATOM	2793	CG	GLU	360	47.186	106.795	53.509	1.00144.86	C
ATOM	2794	CD	GLU	360	46.218	107.477	54.466	1.00144.86	C
ATOM	2795	OE1	GLU	360	45.983	108.703	54.297	1.00144.86	O
ATOM	2796	OE2	GLU	360	45.702	106.779	55.380	1.00144.86	O
ATOM	2797	C	GLU	360	44.894	105.647	50.654	1.00144.86	C
ATOM	2798	O	GLU	360	45.692	105.599	49.721	1.00144.86	O
ATOM	2799	N	PHE	361	43.564	105.683	50.448	1.00160.57	N
ATOM	2800	CA	PHE	361	43.085	105.776	49.100	1.00160.57	C
ATOM	2801	CB	PHE	361	41.735	105.073	48.858	1.00160.57	C
ATOM	2802	CG	PHE	361	41.989	103.621	48.627	1.00160.57	C
ATOM	2803	CD1	PHE	361	42.265	102.766	49.669	1.00160.57	C
ATOM	2804	CD2	PHE	361	41.970	103.121	47.344	1.00160.57	C
ATOM	2805	CE1	PHE	361	42.502	101.431	49.431	1.00160.57	C

ATOM	2806	CE2	PHE	361	42.204	101.789	47.099	1.00160.57	C
ATOM	2807	CZ	PHE	361	42.470	100.940	48.147	1.00160.57	C
ATOM	2808	C	PHE	361	42.895	107.235	48.868	1.00160.57	C
ATOM	2809	O	PHE	361	41.981	107.847	49.420	1.00160.57	O
ATOM	2810	N	ARG	362	43.760	107.845	48.036	1.00131.01	N
ATOM	2811	CA	ARG	362	43.645	109.264	47.911	1.00131.01	C
ATOM	2812	CB	ARG	362	44.956	109.996	48.246	1.00131.01	C
ATOM	2813	CG	ARG	362	45.469	109.696	49.657	1.00131.01	C
ATOM	2814	CD	ARG	362	45.237	110.813	50.676	1.00131.01	C
ATOM	2815	NE	ARG	362	46.162	111.929	50.332	1.00131.01	N
ATOM	2816	CZ	ARG	362	47.478	111.861	50.691	1.00131.01	C
ATOM	2817	NH1	ARG	362	47.969	110.737	51.291	1.00131.01	N
ATOM	2818	NH2	ARG	362	48.306	112.918	50.443	1.00131.01	N
ATOM	2819	C	ARG	362	43.293	109.632	46.509	1.00131.01	C
ATOM	2820	O	ARG	362	44.085	109.418	45.592	1.00131.01	O
ATOM	2821	N	ASN	363	42.079	110.203	46.341	1.00 76.08	N
ATOM	2822	CA	ASN	363	41.573	110.754	45.113	1.00 76.08	C
ATOM	2823	CB	ASN	363	42.102	112.172	44.832	1.00 76.08	C
ATOM	2824	CG	ASN	363	41.317	112.764	43.669	1.00 76.08	C
ATOM	2825	OD1	ASN	363	40.285	112.233	43.261	1.00 76.08	O
ATOM	2826	ND2	ASN	363	41.823	113.898	43.115	1.00 76.08	N
ATOM	2827	C	ASN	363	41.945	109.880	43.962	1.00 76.08	C
ATOM	2828	O	ASN	363	42.729	110.292	43.108	1.00 76.08	O
ATOM	2829	N	VAL	364	41.411	108.644	43.908	1.00 56.57	N
ATOM	2830	CA	VAL	364	41.814	107.780	42.840	1.00 56.57	C
ATOM	2831	CB	VAL	364	42.266	106.428	43.311	1.00 56.57	C
ATOM	2832	CG1	VAL	364	42.617	105.572	42.083	1.00 56.57	C
ATOM	2833	CG2	VAL	364	43.432	106.618	44.295	1.00 56.57	C
ATOM	2834	C	VAL	364	40.684	107.557	41.897	1.00 56.57	C
ATOM	2835	O	VAL	364	39.593	107.129	42.275	1.00 56.57	O
ATOM	2836	N	HIS	365	40.954	107.839	40.612	1.00 70.79	N
ATOM	2837	CA	HIS	365	40.014	107.611	39.567	1.00 70.79	C
ATOM	2838	ND1	HIS	365	40.551	110.740	39.961	1.00 70.79	N
ATOM	2839	CG	HIS	365	39.708	110.082	39.093	1.00 70.79	C
ATOM	2840	CB	HIS	365	40.004	108.731	38.514	1.00 70.79	C
ATOM	2841	NE2	HIS	365	38.807	112.079	39.632	1.00 70.79	N
ATOM	2842	CD2	HIS	365	38.647	110.913	38.903	1.00 70.79	C
ATOM	2843	CE1	HIS	365	39.964	111.928	40.251	1.00 70.79	C
ATOM	2844	C	HIS	365	40.561	106.401	38.893	1.00 70.79	C
ATOM	2845	O	HIS	365	41.775	106.208	38.850	1.00 70.79	O
ATOM	2846	N	PHE	366	39.681	105.519	38.400	1.00 98.57	N
ATOM	2847	CA	PHE	366	40.170	104.348	37.760	1.00 98.57	C
ATOM	2848	CB	PHE	366	40.593	103.271	38.774	1.00 98.57	C
ATOM	2849	CG	PHE	366	40.750	101.979	38.058	1.00 98.57	C
ATOM	2850	CD1	PHE	366	41.860	101.710	37.291	1.00 98.57	C
ATOM	2851	CD2	PHE	366	39.769	101.021	38.176	1.00 98.57	C
ATOM	2852	CE1	PHE	366	41.979	100.504	36.642	1.00 98.57	C
ATOM	2853	CE2	PHE	366	39.883	99.815	37.531	1.00 98.57	C
ATOM	2854	CZ	PHE	366	40.990	99.556	36.761	1.00 98.57	C
ATOM	2855	C	PHE	366	39.082	103.799	36.927	1.00 98.57	C
ATOM	2856	O	PHE	366	37.922	103.735	37.331	1.00 98.57	O
ATOM	2857	N	SER	367	39.451	103.380	35.715	1.00124.40	N
ATOM	2858	CA	SER	367	38.494	102.774	34.864	1.00124.40	C
ATOM	2859	CB	SER	367	38.271	103.502	33.529	1.00124.40	C
ATOM	2860	OG	SER	367	39.423	103.376	32.709	1.00124.40	O
ATOM	2861	C	SER	367	39.099	101.465	34.542	1.00124.40	C
ATOM	2862	O	SER	367	40.318	101.296	34.523	1.00124.40	O
ATOM	2863	N	TYR	368	38.235	100.482	34.310	1.00214.86	N
ATOM	2864	CA	TYR	368	38.729	99.200	33.956	1.00214.86	C
ATOM	2865	CB	TYR	368	37.617	98.160	33.692	1.00214.86	C
ATOM	2866	CG	TYR	368	37.129	97.726	35.031	1.00214.86	C
ATOM	2867	CD1	TYR	368	37.865	96.837	35.781	1.00214.86	C
ATOM	2868	CD2	TYR	368	35.963	98.221	35.555	1.00214.86	C
ATOM	2869	CE1	TYR	368	37.432	96.436	37.024	1.00214.86	C
ATOM	2870	CE2	TYR	368	35.520	97.827	36.795	1.00214.86	C
ATOM	2871	CZ	TYR	368	36.255	96.931	37.532	1.00214.86	C
ATOM	2872	OH	TYR	368	35.802	96.525	38.805	1.00214.86	O
ATOM	2873	C	TYR	368	39.652	99.306	32.764	1.00214.86	C
ATOM	2874	O	TYR	368	39.599	100.269	31.999	1.00214.86	O
ATOM	2875	N	PRO	369	40.548	98.357	32.615	1.00128.86	N
ATOM	2876	CA	PRO	369	41.525	98.393	31.559	1.00128.86	C
ATOM	2877	CD	PRO	369	40.310	96.995	33.065	1.00128.86	C
ATOM	2878	CB	PRO	369	42.197	97.028	31.569	1.00128.86	C
ATOM	2879	CG	PRO	369	41.078	96.113	32.081	1.00128.86	C

ATOM	2880	C	PRO	369	40.923	98.654	30.216	1.00128.86	C
ATOM	2881	O	PRO	369	41.651	99.138	29.352	1.00128.86	O
ATOM	2882	N	SER	370	39.656	98.283	29.953	1.0081.76	N
ATOM	2883	CA	SER	370	39.164	98.681	28.667	1.0081.76	C
ATOM	2884	CB	SER	370	37.766	98.141	28.335	1.0081.76	C
ATOM	2885	OG	SER	370	37.791	96.722	28.305	1.0081.76	O
ATOM	2886	C	SER	370	39.097	100.167	28.758	1.0081.76	C
ATOM	2887	O	SER	370	38.403	100.720	29.601	1.0081.76	O
ATOM	2888	N	ARG	371	39.745	100.875	27.831	1.00179.30	N
ATOM	2889	CA	ARG	371	39.929	102.285	28.031	1.00179.30	C
ATOM	2890	CB	ARG	371	40.828	102.974	26.983	1.00179.30	C
ATOM	2891	CG	ARG	371	40.320	103.002	25.543	1.00179.30	C
ATOM	2892	CD	ARG	371	41.365	103.578	24.583	1.00179.30	C
ATOM	2893	NE	ARG	371	40.675	103.966	23.322	1.00179.30	N
ATOM	2894	CZ	ARG	371	40.196	105.237	23.183	1.00179.30	C
ATOM	2895	NH1	ARG	371	40.365	106.143	24.190	1.00179.30	N
ATOM	2896	NH2	ARG	371	39.560	105.606	22.034	1.00179.30	N
ATOM	2897	C	ARG	371	38.641	103.065	28.155	1.00179.30	C
ATOM	2898	O	ARG	371	38.637	104.129	28.771	1.00179.30	O
ATOM	2899	N	LYS	372	37.545	102.620	27.515	1.00173.71	N
ATOM	2900	CA	LYS	372	36.286	103.334	27.462	1.00173.71	C
ATOM	2901	CB	LYS	372	35.373	102.766	26.368	1.00173.71	C
ATOM	2902	CG	LYS	372	35.975	102.908	24.973	1.00173.71	C
ATOM	2903	CD	LYS	372	37.226	102.054	24.762	1.00173.71	C
ATOM	2904	CE	LYS	372	36.920	100.603	24.387	1.00173.71	C
ATOM	2905	NZ	LYS	372	38.182	99.855	24.200	1.00173.71	N
ATOM	2906	C	LYS	372	35.440	103.412	28.712	1.00173.71	C
ATOM	2907	O	LYS	372	34.939	104.487	29.039	1.00173.71	O
ATOM	2908	N	GLU	373	35.261	102.307	29.463	1.00111.78	N
ATOM	2909	CA	GLU	373	34.249	102.270	30.498	1.00111.78	C
ATOM	2910	CB	GLU	373	34.196	100.958	31.298	1.00111.78	C
ATOM	2911	CG	GLU	373	33.755	99.767	30.454	1.00111.78	C
ATOM	2912	CD	GLU	373	34.925	99.465	29.541	1.00111.78	C
ATOM	2913	OE1	GLU	373	36.054	99.357	30.086	1.00111.78	O
ATOM	2914	OE2	GLU	373	34.719	99.359	28.302	1.00111.78	O
ATOM	2915	C	GLU	373	34.402	103.371	31.492	1.00111.78	C
ATOM	2916	O	GLU	373	35.459	103.985	31.626	1.00111.78	O
ATOM	2917	N	VAL	374	33.288	103.648	32.209	1.00127.98	N
ATOM	2918	CA	VAL	374	33.267	104.683	33.197	1.00127.98	C
ATOM	2919	CB	VAL	374	31.994	104.782	33.987	1.00127.98	C
ATOM	2920	CG1	VAL	374	30.851	105.120	33.034	1.00127.98	C
ATOM	2921	CG2	VAL	374	31.782	103.477	34.771	1.00127.98	C
ATOM	2922	C	VAL	374	34.309	104.367	34.195	1.00127.98	C
ATOM	2923	O	VAL	374	34.514	103.209	34.550	1.00127.98	O
ATOM	29								



ATOM	2954	CE	LYS	378	31.300	107.986	43.374	1.00155.54	C
ATOM	2955	NZ	LYS	378	29.959	108.526	43.676	1.00155.54	N
ATOM	2956	C	LYS	378	35.733	109.018	40.453	1.00155.54	C
ATOM	2957	O	LYS	378	35.353	110.177	40.280	1.00155.54	O
ATOM	2958	N	GLY	379	36.797	108.737	41.229	1.00 79.86	N
ATOM	2959	CA	GLY	379	37.396	109.816	41.958	1.00 79.86	C
ATOM	2960	C	GLY	379	36.981	109.585	43.366	1.00 79.86	C
ATOM	2961	O	GLY	379	36.037	110.184	43.881	1.00 79.86	O
ATOM	2962	N	LEU	380	37.665	108.601	43.982	1.00149.81	N
ATOM	2963	CA	LEU	380	37.337	108.145	45.296	1.00149.81	C
ATOM	2964	CB	LEU	380	37.105	106.617	45.306	1.00149.81	C
ATOM	2965	CG	LEU	380	36.957	105.944	46.683	1.00149.81	C
ATOM	2966	CD1	LEU	380	38.322	105.748	47.361	1.00149.81	C
ATOM	2967	CD2	LEU	380	35.950	106.692	47.570	1.00149.81	C
ATOM	2968	C	LEU	380	38.412	108.485	46.269	1.00149.81	C
ATOM	2969	O	LEU	380	39.603	108.352	45.991	1.00149.81	O
ATOM	2970	N	ASN	381	37.975	108.952	47.455	1.00 72.07	N
ATOM	2971	CA	ASN	381	38.847	109.274	48.538	1.00 72.07	C
ATOM	2972	CB	ASN	381	38.749	110.738	49.004	1.00 72.07	C
ATOM	2973	CG	ASN	381	39.445	111.629	47.986	1.00 72.07	C
ATOM	2974	OD1	ASN	381	40.672	111.713	47.955	1.00 72.07	O
ATOM	2975	ND2	ASN	381	38.642	112.315	47.130	1.00 72.07	N
ATOM	2976	C	ASN	381	38.417	108.435	49.691	1.00 72.07	C
ATOM	2977	O	ASN	381	37.224	108.303	49.978	1.00 72.07	O
ATOM	2978	N	LEU	382	39.399	107.799	50.351	1.00120.00	N
ATOM	2979	CA	LEU	382	39.080	107.033	51.506	1.00120.00	C
ATOM	2980	CB	LEU	382	38.567	105.612	51.217	1.00120.00	C
ATOM	2981	CG	LEU	382	38.189	104.846	52.502	1.00120.00	C
ATOM	2982	CD1	LEU	382	36.844	105.329	53.073	1.00120.00	C
ATOM	2983	CD2	LEU	382	38.275	103.326	52.316	1.00120.00	C
ATOM	2984	C	LEU	382	40.356	106.835	52.237	1.00120.00	C
ATOM	2985	O	LEU	382	41.435	106.741	51.649	1.00120.00	O
ATOM	2986	N	LYS	383	40.256	106.774	53.567	1.00187.01	N
ATOM	2987	CA	LYS	383	41.430	106.533	54.332	1.00187.01	C
ATOM	2988	CB	LYS	383	41.897	107.766	55.116	1.00187.01	C
ATOM	2989	CG	LYS	383	40.920	108.139	56.230	1.00187.01	C
ATOM	2990	CD	LYS	383	39.506	108.438	55.730	1.00187.01	C
ATOM	2991	CE	LYS	383	38.473	108.566	56.849	1.00187.01	C
ATOM	2992	NZ	LYS	383	37.163	108.954	56.282	1.00187.01	N
ATOM	2993	C	LYS	383	41.013	105.535	55.349	1.00187.01	C
ATOM	2994	O	LYS	383	39.831	105.468	55.692	1.00187.01	O
ATOM	2995	N	VAL	384	41.956	104.691	55.811	1.00178.61	N
ATOM	2996	CA	VAL	384	41.588	103.817	56.883	1.00178.61	C
ATOM	2997	CB	VAL	384	41.233	102.409	56.474	1.00178.61	C
ATOM	2998	CG1	VAL	384	40.012	102.453	55.550	1.00178.61	C
ATOM	2999	CG2	VAL	384	42.447	101.722	55.842	1.00178.61	C
ATOM	3000	C	VAL	384	42.753	103.737	57.827	1.00178.61	C
ATOM	3001	O	VAL	384	43.881	103.417	57.446	1.00178.61	O
ATOM	3002	N	GLN	385	42.464	103.995	59.114	1.00166.67	N
ATOM	3003	CA	GLN	385	43.412	104.008	60.189	1.00166.67	C
ATOM	3004	CB	GLN	385	42.760	104.314	61.550	1.00166.67	C
ATOM	3005	CG	GLN	385	43.728	104.344	62.736	1.00166.67	C
ATOM	3006	CD	GLN	385	44.245	105.764	62.905	1.00166.67	C
ATOM	3007	OE1	GLN	385	43.556	106.732	62.587	1.00166.67	O
ATOM	3008	NE2	GLN	385	45.494	105.897	63.427	1.00166.67	N
ATOM	3009	C	GLN	385	43.999	102.644	60.285	1.00166.67	C
ATOM	3010	O	GLN	385	43.508	101.740	59.615	1.00166.67	O
ATOM	3011	N	SER	386	45.090	102.496	61.082	1.00167.79	N
ATOM	3012	CA	SER	386	45.807	101.253	61.237	1.00167.79	C
ATOM	3013	CB	SER	386	46.992	101.368	62.217	1.00167.79	C
ATOM	3014	OG	SER	386	46.548	101.793	63.497	1.00167.79	O
ATOM	3015	C	SER	386	44.924	100.118	61.673	1.00167.79	C
ATOM	3016	O	SER	386	44.045	99.704	60.943	1.00167.79	O
ATOM	3017	N	GLY	387	44.982	99.710	62.945	1.00144.75	N
ATOM	3018	CA	GLY	387	44.399	98.500	63.484	1.00144.75	C
ATOM	3019	C	GLY	387	42.927	98.338	63.169	1.00144.75	C
ATOM	3020	O	GLY	387	42.361	97.272	63.403	1.00144.75	O
ATOM	3021	N	GLN	388	42.237	99.408	62.749	1.00132.34	N
ATOM	3022	CA	GLN	388	40.842	99.387	62.413	1.00132.34	C
ATOM	3023	CB	GLN	388	40.347	100.704	61.802	1.00132.34	C
ATOM	3024	CG	GLN	388	40.448	101.893	62.751	1.00132.34	C
ATOM	3025	CD	GLN	388	39.916	103.104	62.005	1.00132.34	C
ATOM	3026	OE1	GLN	388	39.864	103.121	60.776	1.00132.34	O
ATOM	3027	NE2	GLN	388	39.499	104.147	62.770	1.00132.34	N

ATOM	3028	C	GLN	388	40.508	98.324	61.413	1.00132.34	C
ATOM	3029	O	GLN	388	41.348	97.531	60.983	1.00132.34	O
ATOM	3030	N	THR	389	39.191	98.234	61.121	1.00165.54	N
ATOM	3031	CA	THR	389	38.666	97.336	60.140	1.00165.54	C
ATOM	3032	CB	THR	389	38.086	96.102	60.753	1.00165.54	C
ATOM	3033	OG1	THR	389	39.061	95.431	61.533	1.00165.54	O
ATOM	3034	CG2	THR	389	37.625	95.187	59.622	1.00165.54	C
ATOM	3035	C	THR	389	37.527	98.078	59.497	1.00165.54	C
ATOM	3036	O	THR	389	36.638	98.563	60.197	1.00165.54	O
ATOM	3037	N	VAL	390	37.496	98.169	58.148	1.00150.34	N
ATOM	3038	CA	VAL	390	36.457	98.944	57.519	1.00150.34	C
ATOM	3039	CB	VAL	390	36.956	99.986	56.559	1.00150.34	C
ATOM	3040	CG1	VAL	390	37.943	100.907	57.284	1.00150.34	C
ATOM	3041	CG2	VAL	390	37.524	99.292	55.314	1.00150.34	C
ATOM	3042	C	VAL	390	35.609	98.041	56.677	1.00150.34	C
ATOM	3043	O	VAL	390	36.095	97.079	56.082	1.00150.34	O
ATOM	3044	N	ALA	391	34.299	98.356	56.584	1.00 68.62	N
ATOM	3045	CA	ALA	391	33.413	97.528	55.813	1.00 68.62	C
ATOM	3046	CB	ALA	391	32.134	97.119	56.566	1.00 68.62	C
ATOM	3047	C	ALA	391	32.977	98.257	54.577	1.00 68.62	C
ATOM	3048	O	ALA	391	32.574	99.417	54.614	1.00 68.62	O
ATOM	3049	N	LEU	392	33.048	97.577	53.421	1.00124.60	N
ATOM	3050	CA	LEU	392	32.595	98.196	52.209	1.00124.60	C
ATOM	3051	CB	LEU	392	33.627	98.147	51.070	1.00124.60	C
ATOM	3052	CG	LEU	392	34.771	99.158	51.276	1.00124.60	C
ATOM	3053	CD1	LEU	392	35.420	99.000	52.660	1.00124.60	C
ATOM	3054	CD2	LEU	392	35.792	99.075	50.131	1.00124.60	C
ATOM	3055	C	LEU	392	31.341	97.511	51.786	1.00124.60	C
ATOM	3056	O	LEU	392	31.224	96.286	51.837	1.00124.60	O
ATOM	3057	N	VAL	393	30.335	98.301	51.380	1.00155.33	N
ATOM	3058	CA	VAL	393	29.095	97.678	51.035	1.00155.33	C
ATOM	3059	CB	VAL	393	28.013	98.103	51.985	1.00155.33	C
ATOM	3060	CG1	VAL	393	26.706	97.425	51.591	1.00155.33	C
ATOM	3061	CG2	VAL	393	28.455	97.772	53.420	1.00155.33	C
ATOM	3062	C	VAL	393	28.708	98.069	49.634	1.00155.33	C
ATOM	3063	O	VAL	393	28.451	99.238	49.372	1.00155.33	O
ATOM	3064	N	GLY	394	28.614	97.091	48.702	1.00 84.58	N
ATOM	3065	CA	GLY	394	28.278	97.367	47.322	1.00 84.58	C
ATOM	3066	C	GLY	394	27.537	96.175	46.784	1.00 84.58	C
ATOM	3067	O	GLY	394	27.344	95.195	47.504	1.00 84.58	O
ATOM	3068	N	ASN	395	27.079	96.231	45.504	1.00204.25	N
ATOM	3069	CA	ASN	395	26.322	95.126	44.969	1.00204.25	C
ATOM	3070	CB	ASN	395	24.830	95.183	45.347	1.00204.25	C
ATOM	3071	CG	ASN	395	24.661	94.656	46.768	1.00204.25	C
ATOM	3072	OD1	ASN	395	25.023	93.522	47.074	1.00204.25	O
ATOM	3073	ND2	ASN	395	24.097	95.497	47.673	1.00204.25	N
ATOM	3074	C	ASN	395	26.374	95.053	43.470	1.00204.25	C
ATOM	3075	O	ASN	395	26.647	93.990	42.916	1.00204.25	O
ATOM	3076	N	SER	396	26.128	96.177	42.759	1.00136.66	N
ATOM	3077	CA	SER	396	26.034	96.184	41.318	1.00136.66	C
ATOM	3078	CB	SER	396	25.578	97.528	40.736	1.00136.66	C
ATOM	3079	OG	SER	396	24.248	97.802	41.141	1.00136.66	O
ATOM	3080	C	SER	396	27.352	95.830	40.720	1.00136.66	C
ATOM	3081	O	SER	396	27.506	95.830	39.501	1.00136.66	O
ATOM	3082	N	GLY	397	28.361	95.591	41.567	1.00 56.92	N
ATOM	3083	CA	GLY	397	29.605	95.072	41.101	1.00 56.92	C
ATOM	3084	C	GLY	397	30.436	96.167	40.536	1.00 56.92	C
ATOM	3085	O	GLY	397	30.064	97.331	40.520	1.00 56.92	O
ATOM	3086	N	CYS	398	31.592	95.803	39.981	1.00107.70	N
ATOM	3087	CA	CYS	398	32.439	96.799	39.419	1.00107.70	C
ATOM	3088	CB	CYS	398	31.856	97.437	38.145	1.00107.70	C
ATOM	3089	SG	CYS	398	31.719	96.256	36.770	1.00107.70	S
ATOM	3090	C	CYS	398	32.774	97.907	40.369	1.00107.70	C
ATOM	3091	O	CYS	398	32.537	99.075	40.061	1.00107.70	O
ATOM	3092	N	GLY	399	33.426	97.585	41.509	1.00228.61	N
ATOM	3093	CA	GLY	399	33.887	98.670	42.333	1.00228.61	C
ATOM	3094	C	GLY	399	34.401	98.228	43.676	1.00228.61	C
ATOM	3095	O	GLY	399	35.609	98.304	43.909	1.00228.61	O
ATOM	3096	N	LYS	400	33.553	97.697	44.572	1.00199.29	N
ATOM	3097	CA	LYS	400	34.024	97.422	45.910	1.00199.29	C
ATOM	3098	CB	LYS	400	32.976	96.730	46.794	1.00199.29	C
ATOM	3099	CG	LYS	400	31.659	97.493	46.903	1.00199.29	C
ATOM	3100	CD	LYS	400	30.861	97.446	45.603	1.00199.29	C
ATOM	3101	CE	LYS	400	30.557	96.017	45.156	1.00199.29	C

ATOM	3102	NZ	LYS	400	29.928	96.036	43.823	1.00199.29	N
ATOM	3103	C	LYS	400	35.172	96.478	45.847	1.00199.29	C
ATOM	3104	O	LYS	400	36.288	96.833	46.221	1.00199.29	O
ATOM	3105	N	SER	401	34.939	95.317	45.218	1.00102.74	N
ATOM	3106	CA	SER	401	35.912	94.285	45.146	1.00102.74	C
ATOM	3107	CB	SER	401	35.463	93.107	44.270	1.00102.74	C
ATOM	3108	OG	SER	401	35.315	93.536	42.924	1.00102.74	O
ATOM	3109	C	SER	401	37.124	94.873	44.512	1.00102.74	C
ATOM	3110	O	SER	401	38.210	94.486	44.926	1.00102.74	O
ATOM	3111	N	THR	402	36.962	95.815	43.537	1.00208.11	N
ATOM	3112	CA	THR	402	38.055	96.387	42.779	1.00208.11	C
ATOM	3113	CB	THR	402	37.666	97.059	41.485	1.00208.11	C
ATOM	3114	OG1	THR	402	38.805	97.099	40.648	1.00208.11	O
ATOM	3115	CG2	THR	402	37.197	98.503	41.702	1.00208.11	C
ATOM	3116	C	THR	402	38.951	97.297	43.567	1.00208.11	C
ATOM	3117	O	THR	402	40.161	97.293	43.361	1.00208.11	O
ATOM	3118	N	THR	403	38.421	98.148	44.458	1.00 85.69	N
ATOM	3119	CA	THR	403	39.342	98.913	45.251	1.00 85.69	C
ATOM	3120	CB	THR	403	38.668	99.890	46.171	1.00 85.69	C
ATOM	3121	OG1	THR	403	37.768	99.209	47.033	1.00 85.69	O
ATOM	3122	CG2	THR	403	37.923	100.945	45.338	1.00 85.69	C
ATOM	3123	C	THR	403	40.065	97.912	46.099	1.00 85.69	C
ATOM	3124	O	THR	403	41.265	98.018	46.341	1.00 85.69	O
ATOM	3125	N	VAL	404	39.327	96.881	46.551	1.00 90.39	N
ATOM	3126	CA	VAL	404	39.876	95.822	47.344	1.00 90.39	C
ATOM	3127	CB	VAL	404	38.857	94.772	47.678	1.00 90.39	C
ATOM	3128	CG1	VAL	404	39.560	93.616	48.408	1.00 90.39	C
ATOM	3129	CG2	VAL	404	37.726	95.425	48.490	1.00 90.39	C
ATOM	3130	C	VAL	404	40.900	95.201	46.481	1.00 90.39	C
ATOM	3131	O	VAL	404	41.826	94.549	46.965	1.00 90.39	O
ATOM	3132	N	GLN	405	40.663	95.314	45.162	1.00218.47	N
ATOM	3133	CA	GLN	405	41.546	94.760	44.202	1.00218.47	C
ATOM	3134	CB	GLN	405	40.984	94.751	42.770	1.00218.47	C
ATOM	3135	CG	GLN	405	40.076	93.565	42.484	1.00218.47	C
ATOM	3136	CD	GLN	405	40.986	92.348	42.518	1.00218.47	C
ATOM	3137	OE1	GLN	405	42.208	92.473	42.570	1.00218.47	O
ATOM	3138	NE2	GLN	405	40.387	91.131	42.492	1.00218.47	N
ATOM	3139	C	GLN	405	42.869	95.451	44.100	1.00218.47	C
ATOM	3140	O	GLN	405	43.887	94.861	44.438	1.00218.47	O
ATOM	3141	N	LEU	406	42.875	96.748	43.740	1.00218.40	N
ATOM	3142	CA	LEU	406	44.061	97.506	43.464	1.00218.40	C
ATOM	3143	CB	LEU	406	43.755	98.898	42.876	1.00218.40	C
ATOM	3144	CG	LEU	406	43.056	99.886	43.825	1.00218.40	C
ATOM	3145	CD1	LEU	406	44.040	100.484	44.843	1.00218.40	C
ATOM	3146	CD2	LEU	406	42.268	100.944	43.037	1.00218.40	C
ATOM	3147	C	LEU	406	44.832	97.625	44.723	1.00218.40	C
ATOM	3148	O	LEU	406	45.991	98.028	44.734	1.00218.40	O
ATOM	3149	N	MET	407	44.171	97.319	45.840	1.00129.16	N
ATOM	3150	CA	MET	407	44.809	97.360	47.114	1.00129.16	C
ATOM	3151	CB	MET	407	43.863	96.983	48.265	1.00129.16	C
ATOM	3152	CG	MET	407	44.521	97.024	49.645	1.00129.16	C
ATOM	3153	SD	MET	407	44.987	98.687	50.212	1.00129.16	S
ATOM	3154	CE	MET	407	46.627	98.656	49.433	1.00129.16	C
ATOM	3155	C	MET	407	45.926	96.351	47.060	1.00129.16	C
ATOM	3156	O	MET	407	46.768	96.284	47.953	1.00129.16	O
ATOM	3157	N	GLN	408	45.795	95.373	46.152	1.00252.77	N
ATOM	3158	CA	GLN	408	46.788	94.400	45.790	1.00252.77	C
ATOM	3159	CB	GLN	408	46.321	92.927	45.825	1.00252.77	C
ATOM	3160	CG	GLN	408	45.154	92.504	44.950	1.00252.77	C
ATOM	3161	CD	GLN	408	44.588	91.239	45.583	1.00252.77	C
ATOM	3162	OE1	GLN	408	43.800	90.520	44.973	1.00252.77	O
ATOM	3163	NE2	GLN	408	44.994	90.964	46.852	1.00252.77	N
ATOM	3164	C	GLN	408	47.631	94.793	44.603	1.00252.77	C
ATOM	3165	O	GLN	408	48.422	93.995	44.108	1.00252.77	O
ATOM	3166	N	ARG	409	47.362	95.967	44.005	1.00188.09	N
ATOM	3167	CA	ARG	409	48.117	96.487	42.899	1.00188.09	C
ATOM	3168	CB	ARG	409	49.626	96.341	43.151	1.00188.09	C
ATOM	3169	CG	ARG	409	50.480	97.451	42.541	1.00188.09	C
ATOM	3170	CD	ARG	409	51.150	97.143	41.205	1.00188.09	C
ATOM	3171	NE	ARG	409	52.174	98.213	41.037	1.00188.09	N
ATOM	3172	CZ	ARG	409	52.796	98.432	39.843	1.00188.09	C
ATOM	3173	NH1	ARG	409	52.458	97.699	38.744	1.00188.09	N
ATOM	3174	NH2	ARG	409	53.754	99.400	39.753	1.00188.09	N
ATOM	3175	C	ARG	409	47.740	95.670	41.735	1.00188.09	C

ATOM	3176	O	ARG	409	48.412	95.664	40.704	1.00188.09	O
ATOM	3177	N	LEU	410	46.557	95.054	41.874	1.00190.34	N
ATOM	3178	CA	LEU	410	46.048	94.179	40.885	1.00190.34	C
ATOM	3179	CB	LEU	410	44.622	93.698	41.199	1.00190.34	C
ATOM	3180	CG	LEU	410	44.212	92.453	40.391	1.00190.34	C
ATOM	3181	CD1	LEU	410	44.252	92.696	38.875	1.00190.34	C
ATOM	3182	CD2	LEU	410	45.045	91.237	40.827	1.00190.34	C
ATOM	3183	C	LEU	410	46.015	95.001	39.630	1.00190.34	C
ATOM	3184	O	LEU	410	46.402	94.509	38.580	1.00190.34	O
ATOM	3185	N	TYR	411	45.606	96.287	39.713	1.00146.48	N
ATOM	3186	CA	TYR	411	45.627	97.198	38.594	1.00146.48	C
ATOM	3187	CB	TYR	411	44.232	97.697	38.173	1.00146.48	C
ATOM	3188	CG	TYR	411	43.404	96.608	37.589	1.00146.48	C
ATOM	3189	CD1	TYR	411	42.995	95.545	38.359	1.00146.48	C
ATOM	3190	CD2	TYR	411	42.992	96.684	36.277	1.00146.48	C
ATOM	3191	CE1	TYR	411	42.217	94.551	37.816	1.00146.48	C
ATOM	3192	CE2	TYR	411	42.214	95.693	35.728	1.00146.48	C
ATOM	3193	CZ	TYR	411	41.830	94.624	36.500	1.00146.48	C
ATOM	3194	OH	TYR	411	41.031	93.602	35.950	1.00146.48	O
ATOM	3195	C	TYR	411	46.279	98.440	39.078	1.00146.48	C
ATOM	3196	O	TYR	411	46.051	98.835	40.219	1.00146.48	O
ATOM	3197	N	ASP	412	47.105	99.096	38.237	1.00113.06	N
ATOM	3198	CA	ASP	412	47.641	100.346	38.700	1.00113.06	C
ATOM	3199	CB	ASP	412	48.794	100.922	37.860	1.00113.06	C
ATOM	3200	CG	ASP	412	50.087	100.226	38.251	1.00113.06	C
ATOM	3201	OD1	ASP	412	50.039	99.298	39.103	1.00113.06	O
ATOM	3202	OD2	ASP	412	51.150	100.633	37.712	1.00113.06	O
ATOM	3203	C	ASP	412	46.527	101.352	38.663	1.00113.06	C
ATOM	3204	O	ASP	412	45.634	101.260	37.827	1.00113.06	O
ATOM	3205	N	PRO	413	46.537	102.303	39.563	1.00103.38	N
ATOM	3206	CA	PRO	413	45.525	103.326	39.661	1.00103.38	C
ATOM	3207	CD	PRO	413	47.671	102.554	40.436	1.00103.38	C
ATOM	3208	CB	PRO	413	45.883	104.126	40.911	1.00103.38	C
ATOM	3209	CG	PRO	413	47.412	103.957	41.015	1.00103.38	C
ATOM	3210	C	PRO	413	45.517	104.192	38.444	1.00103.38	C
ATOM	3211	O	PRO	413	46.584	104.620	38.008	1.00103.38	O
ATOM	3212	N	THR	414	44.322	104.487	37.898	1.00 47.46	N
ATOM	3213	CA	THR	414	44.254	105.314	36.730	1.00 47.46	C
ATOM	3214	CB	THR	414	42.854	105.461	36.213	1.00 47.46	C
ATOM	3215	OG1	THR	414	42.311	104.187	35.900	1.00 47.46	O
ATOM	3216	CG2	THR	414	42.885	106.347	34.956	1.00 47.46	C
ATOM	3217	C	THR	414	44.752	106.684	37.073	1.00 47.46	C
ATOM	3218	O	THR	414	45.621	107.227	36.393	1.00 47.46	O
ATOM	3219	N	GLU	415	44.220	107.278	38.159	1.00 93.49	N
ATOM	3220	CA	GLU	415	44.634	108.593	38.563	1.00 93.49	C
ATOM	3221	CB	GLU	415	43.723	109.741	38.095	1.00 93.49	C
ATOM	3222	CG	GLU	415	44.052	110.254	36.696	1.00 93.49	C
ATOM	3223	CD	GLU	415	45.298	111.121	36.829	1.00 93.49	C
ATOM	3224	OE1	GLU	415	45.774	111.291	37.984	1.00 93.49	O
ATOM	3225	OE2	GLU	415	45.787	111.627	35.784	1.00 93.49	O
ATOM	3226	C	GLU	415	44.640	108.640	40.044	1.00 93.49	C
ATOM	3227	O	GLU	415	44.051	107.793	40.713	1.00 93.49	O
ATOM	3228	N	GLY	416	45.319	109.660	40.595	1.00 38.07	N
ATOM	3229	CA	GLY	416	45.390	109.753	42.016	1.00 38.07	C
ATOM	3230	C	GLY	416	46.356	108.702	42.431	1.00 38.07	C
ATOM	3231	O	GLY	416	47.248	108.341	41.666	1.00 38.07	O
ATOM	3232	N	MET	417	46.217	108.190	43.667	1.00148.33	N
ATOM	3233	CA	MET	417	47.143	107.180	44.087	1.00148.33	C
ATOM	3234	CB	MET	417	48.537	107.709	44.477	1.00148.33	C
ATOM	3235	CG	MET	417	49.420	108.192	43.331	1.00148.33	C
ATOM	3236	SD	MET	417	50.082	106.875	42.266	1.00148.33	S
ATOM	3237	CE	MET	417	51.015	108.009	41.197	1.00148.33	C
ATOM	3238	C	MET	417	46.645	106.559	45.341	1.00148.33	C
ATOM	3239	O	MET	417	45.628	106.955	45.908	1.00148.33	O
ATOM	3240	N	VAL	418	47.384	105.529	45.785	1.00137.69	N
ATOM	3241	CA	VAL	418	47.113	104.862	47.017	1.00137.69	C
ATOM	3242	CB	VAL	418	46.445	103.533	46.831	1.00137.69	C
ATOM	3243	CG1	VAL	418	47.198	102.766	45.734	1.00137.69	C
ATOM	3244	CG2	VAL	418	46.438	102.798	48.181	1.00137.69	C
ATOM	3245	C	VAL	418	48.425	104.641	47.677	1.00137.69	C
ATOM	3246	O	VAL	418	49.450	104.467	47.017	1.00137.69	O
ATOM	3247	N	SER	419	48.427	104.673	49.020	1.00113.13	N
ATOM	3248	CA	SER	419	49.666	104.459	49.693	1.00113.13	C
ATOM	3249	CB	SER	419	50.249	105.728	50.339	1.00113.13	C

ATOM	3250	OG	SER	419	49.558	106.027	51.542	1.00113.13	O
ATOM	3251	C	SER	419	49.423	103.493	50.804	1.00113.13	C
ATOM	3252	O	SER	419	48.388	103.536	51.467	1.00113.13	O
ATOM	3253	N	VAL	420	50.376	102.563	50.997	1.00104.53	N
ATOM	3254	CA	VAL	420	50.353	101.662	52.105	1.00104.53	C
ATOM	3255	CB	VAL	420	50.913	100.303	51.801	1.00104.53	C
ATOM	3256	CG1	VAL	420	50.996	99.504	53.114	1.00104.53	C
ATOM	3257	CG2	VAL	420	50.045	99.639	50.717	1.00104.53	C
ATOM	3258	C	VAL	420	51.265	102.296	53.070	1.00104.53	C
ATOM	3259	O	VAL	420	52.203	102.953	52.625	1.00104.53	O
ATOM	3260	N	ASP	421	51.030	102.109	54.388	1.00186.69	N
ATOM	3261	CA	ASP	421	51.849	102.806	55.332	1.00186.69	C
ATOM	3262	CB	ASP	421	53.335	102.403	55.244	1.00186.69	C
ATOM	3263	CG	ASP	421	54.091	103.007	56.420	1.00186.69	C
ATOM	3264	OD1	ASP	421	53.423	103.542	57.344	1.00186.69	O
ATOM	3265	OD2	ASP	421	55.349	102.955	56.398	1.00186.69	O
ATOM	3266	C	ASP	421	51.698	104.237	54.917	1.00186.69	C
ATOM	3267	O	ASP	421	50.579	104.740	54.819	1.00186.69	O
ATOM	3268	N	GLY	422	52.847	104.923	54.787	1.00115.68	N
ATOM	3269	CA	GLY	422	53.107	106.205	54.197	1.00115.68	C
ATOM	3270	C	GLY	422	53.385	106.192	52.704	1.00115.68	C
ATOM	3271	O	GLY	422	53.261	107.228	52.052	1.00115.68	O
ATOM	3272	N	GLN	423	53.887	105.060	52.150	1.00106.59	N
ATOM	3273	CA	GLN	423	54.427	104.997	50.809	1.00106.59	C
ATOM	3274	CB	GLN	423	55.572	103.982	50.688	1.00106.59	C
ATOM	3275	CG	GLN	423	56.772	104.304	51.579	1.00106.59	C
ATOM	3276	CD	GLN	423	57.663	103.076	51.553	1.00106.59	C
ATOM	3277	OE1	GLN	423	57.188	101.961	51.749	1.00106.59	O
ATOM	3278	NE2	GLN	423	58.982	103.276	51.291	1.00106.59	N
ATOM	3279	C	GLN	423	53.402	104.595	49.797	1.00106.59	C
ATOM	3280	O	GLN	423	52.368	104.012	50.114	1.00106.59	O
ATOM	3281	N	ASP	424	53.701	104.917	48.522	1.00 95.02	N
ATOM	3282	CA	ASP	424	52.861	104.641	47.396	1.00 95.02	C
ATOM	3283	CB	ASP	424	53.290	105.473	46.169	1.00 95.02	C
ATOM	3284	CG	ASP	424	52.451	105.121	44.952	1.00 95.02	C
ATOM	3285	OD1	ASP	424	52.547	103.961	44.476	1.00 95.02	O
ATOM	3286	OD2	ASP	424	51.706	106.014	44.472	1.00 95.02	O
ATOM	3287	C	ASP	424	53.009	103.191	47.065	1.00 95.02	C
ATOM	3288	O	ASP	424	54.110	102.668	46.916	1.00 95.02	O
ATOM	3289	N	ILE	425	51.870	102.513	46.883	1.00107.77	N
ATOM	3290	CA	ILE	425	51.829	101.092	46.677	1.00107.77	C
ATOM	3291	CB	ILE	425	50.413	100.630	46.496	1.00107.77	C
ATOM	3292	CG1	ILE	425	50.358	99.114	46.316	1.00107.77	C
ATOM	3293	CG2	ILE	425	49.786	101.414	45.334	1.00107.77	C
ATOM	3294	CD1	ILE	425	48.939	98.554	46.369	1.00107.77	C
ATOM	3295	C	ILE	425	52.607	100.663	45.460	1.00107.77	C
ATOM	3296	O	ILE	425	53.439	99.759	45.538	1.00107.77	O
ATOM	3297	N	ARG	426	52.420	101.357	44.326	1.00178.62	N
ATOM	3298	CA	ARG	426	52.949	100.974	43.048	1.00178.62	C
ATOM	3299	CB	ARG	426	52.650	102.044	41.993	1.00178.62	C
ATOM	3300	CG	ARG	426	51.154	102.318	41.853	1.00178.62	C
ATOM	3301	CD	ARG	426	50.841	103.639	41.154	1.00178.62	C
ATOM	3302	NE	ARG	426	51.264	103.508	39.735	1.00178.62	N
ATOM	3303	CZ	ARG	426	50.950	104.498	38.852	1.00178.62	C
ATOM	3304	NH1	ARG	426	50.246	105.586	39.280	1.00178.62	N
ATOM	3305	NH2	ARG	426	51.345	104.403	37.549	1.00178.62	N
ATOM	3306	C	ARG	426	54.432	100.855	43.154	1.00178.62	C
ATOM	3307	O	ARG	426	55.041	99.974	42.546	1.00178.62	O
ATOM	3308	N	THR	427	55.036	101.740	43.961	1.00164.62	N
ATOM	3309	CA	THR	427	56.456	101.829	44.101	1.00164.62	C
ATOM	3310	CB	THR	427	56.820	102.814	45.165	1.00164.62	C
ATOM	3311	OG1	THR	427	56.289	104.091	44.866	1.00164.62	O
ATOM	3312	CG2	THR	427	58.339	102.898	45.240	1.00164.62	C
ATOM	3313	C	THR	427	57.033	100.526	44.560	1.00164.62	C
ATOM	3314	O	THR	427	58.075	100.099	44.071	1.00164.62	O
ATOM	3315	N	ILE	428	56.367	99.869	45.520	1.00210.96	N
ATOM	3316	CA	ILE	428	56.853	98.670	46.150	1.00210.96	C
ATOM	3317	CB	ILE	428	55.996	98.236	47.296	1.00210.96	C
ATOM	3318	CG1	ILE	428	55.695	99.390	48.250	1.00210.96	C
ATOM	3319	CG2	ILE	428	56.726	97.089	47.999	1.00210.96	C
ATOM	3320	CD1	ILE	428	54.551	99.060	49.206	1.00210.96	C
ATOM	3321	C	ILE	428	56.777	97.506	45.197	1.00210.96	C
ATOM	3322	O	ILE	428	55.958	97.485	44.280	1.00210.96	O
ATOM	3323	N	ASN	429	57.667	96.506	45.399	1.00 96.92	N

ATOM	3324	CA	ASN	429	57.705	95.281	44.644	1.00	96.92	C
ATOM	3325	CB	ASN	429	58.907	94.394	45.013	1.00	96.92	C
ATOM	3326	CG	ASN	429	58.748	93.045	44.332	1.00	96.92	C
ATOM	3327	OD1	ASN	429	58.697	92.011	44.995	1.00	96.92	O
ATOM	3328	ND2	ASN	429	58.657	93.049	42.976	1.00	96.92	N
ATOM	3329	C	ASN	429	56.463	94.478	44.905	1.00	96.92	C
ATOM	3330	O	ASN	429	55.897	94.505	45.996	1.00	96.92	O
ATOM	3331	N	VAL	430	56.007	93.754	43.859	1.00	111.77	N
ATOM	3332	CA	VAL	430	54.781	92.996	43.877	1.00	111.77	C
ATOM	3333	CB	VAL	430	54.429	92.465	42.519	1.00	111.77	C
ATOM	3334	CG1	VAL	430	53.127	91.649	42.623	1.00	111.77	C
ATOM	3335	CG2	VAL	430	54.364	93.646	41.537	1.00	111.77	C
ATOM	3336	C	VAL	430	54.777	91.820	44.809	1.00	111.77	C
ATOM	3337	O	VAL	430	53.998	91.819	45.761	1.00	111.77	O
ATOM	3338	N	ARG	431	55.703	90.846	44.625	1.00	178.91	N
ATOM	3339	CA	ARG	431	55.639	89.593	45.341	1.00	178.91	C
ATOM	3340	CB	ARG	431	56.826	88.650	45.081	1.00	178.91	C
ATOM	3341	CG	ARG	431	58.176	89.218	45.515	1.00	178.91	C
ATOM	3342	CD	ARG	431	59.331	88.222	45.393	1.00	178.91	C
ATOM	3343	NE	ARG	431	59.492	87.889	43.950	1.00	178.91	N
ATOM	3344	CZ	ARG	431	59.366	86.597	43.529	1.00	178.91	C
ATOM	3345	NH1	ARG	431	59.100	85.606	44.428	1.00	178.91	N
ATOM	3346	NH2	ARG	431	59.515	86.296	42.205	1.00	178.91	N
ATOM	3347	C	ARG	431	55.648	89.939	46.804	1.00	178.91	C
ATOM	3348	O	ARG	431	54.993	89.284	47.617	1.00	178.91	O
ATOM	3349	N	PHE	432	56.403	91.000	47.154	1.00	170.16	N
ATOM	3350	CA	PHE	432	56.500	91.509	48.498	1.00	170.16	C
ATOM	3351	CB	PHE	432	57.540	92.651	48.553	1.00	170.16	C
ATOM	3352	CG	PHE	432	57.845	93.088	49.949	1.00	170.16	C
ATOM	3353	CD1	PHE	432	57.088	94.049	50.580	1.00	170.16	C
ATOM	3354	CD2	PHE	432	58.916	92.544	50.624	1.00	170.16	C
ATOM	3355	CE1	PHE	432	57.387	94.450	51.863	1.00	170.16	C
ATOM	3356	CE2	PHE	432	59.220	92.940	51.905	1.00	170.16	C
ATOM	3357	CZ	PHE	432	58.454	93.896	52.529	1.00	170.16	C
ATOM	3358	C	PHE	432	55.167	92.050	48.952	1.00	170.16	C
ATOM	3359	O	PHE	432	54.658	91.674	50.009	1.00	170.16	O
ATOM	3360	N	LEU	433	54.539	92.924	48.136	1.00	150.89	N
ATOM	3361	CA	LEU	433	53.316	93.570	48.544	1.00	150.89	C
ATOM	3362	CB	LEU	433	52.819	94.545	47.458	1.00	150.89	C
ATOM	3363	CG	LEU	433	51.515	95.324	47.735	1.00	150.89	C
ATOM	3364	CD1	LEU	433	51.306	96.350	46.620	1.00	150.89	C
ATOM	3365	CD2	LEU	433	50.269	94.433	47.856	1.00	150.89	C
ATOM	3366	C	LEU	433	52.290	92.519	48.767	1.00	150.89	C
ATOM	3367	O	LEU	433	51.688	92.428	49.837	1.00	150.89	O
ATOM	3368	N	ARG	434	52.148	91.629	47.779	1.00	158.23	N
ATOM	3369	CA	ARG	434	51.125	90.637	47.810	1.00	158.23	C
ATOM	3370	CB	ARG	434	51.195	89.690	46.603	1.00	158.23	C
ATOM	3371	CG	ARG	434	50.907	90.406	45.283	1.00	158.23	C
ATOM	3372	CD	ARG	434	49.414	90.579	45.001	1.00	158.23	C
ATOM	3373	NE	ARG	434	49.278	91.420	43.778	1.00	158.23	N
ATOM	3374	CZ	ARG	434	49.377	90.851	42.542	1.00	158.23	C
ATOM	3375	NH1	ARG	434	49.672	89.523	42.427	1.00	158.23	N
ATOM	3376	NH2	ARG	434	49.186	91.611	41.425	1.00	158.23	N
ATOM	3377	C	ARG	434	51.303	89.831	49.058	1.00	158.23	C
ATOM	3378	O	ARG	434	50.330	89.351	49.634	1.00	158.23	O
ATOM	3379	N	GLU	435	52.556	89.619	49.497	1.00	86.98	N
ATOM	3380	CA	GLU	435	52.771	88.870	50.706	1.00	86.98	C
ATOM	3381	CB	GLU	435	54.260	88.540	50.899	1.00	86.98	C
ATOM	3382	CG	GLU	435	54.774	87.560	49.836	1.00	86.98	C
ATOM	3383	CD	GLU	435	56.297	87.570	49.831	1.00	86.98	C
ATOM	3384	OE1	GLU	435	56.893	88.424	50.540	1.00	86.98	O
ATOM	3385	OE2	GLU	435	56.885	86.724	49.106	1.00	86.98	O
ATOM	3386	C	GLU	435	52.258	89.640	51.906	1.00	86.98	C
ATOM	3387	O	GLU	435	51.572	89.096	52.770	1.00	86.98	O
ATOM	3388	N	ILE	436	52.538	90.954	51.944	1.00	164.62	N
ATOM	3389	CA	ILE	436	52.241	91.893	52.998	1.00	164.62	C
ATOM	3390	CB	ILE	436	52.819	93.250	52.704	1.00	164.62	C
ATOM	3391	CG1	ILE	436	54.337	93.118	52.502	1.00	164.62	C
ATOM	3392	CG2	ILE	436	52.449	94.218	53.843	1.00	164.62	C
ATOM	3393	CD1	ILE	436	55.062	92.531	53.712	1.00	164.62	C
ATOM	3394	C	ILE	436	50.761	92.028	53.178	1.00	164.62	C
ATOM	3395	O	ILE	436	50.304	92.555	54.192	1.00	164.62	O
ATOM	3396	N	ILE	437	49.967	91.696	52.144	1.00	101.70	N
ATOM	3397	CA	ILE	437	48.554	91.884	52.302	1.00	101.70	C

ATOM	3398	CB	ILE	437	47.988	92.744	51.209	1.00101.70	C
ATOM	3399	CG1	ILE	437	48.651	94.133	51.260	1.00101.70	C
ATOM	3400	CG2	ILE	437	46.459	92.785	51.354	1.00101.70	C
ATOM	3401	CD1	ILE	437	48.367	95.006	50.038	1.00101.70	C
ATOM	3402	C	ILE	437	47.823	90.569	52.307	1.00101.70	C
ATOM	3403	O	ILE	437	47.598	89.957	51.266	1.00101.70	O
ATOM	3404	N	GLY	438	47.379	90.125	53.501	1.00 50.02	N
ATOM	3405	CA	GLY	438	46.671	88.882	53.642	1.00 50.02	C
ATOM	3406	C	GLY	438	45.327	89.070	53.018	1.00 50.02	C
ATOM	3407	O	GLY	438	44.713	90.122	53.183	1.00 50.02	O
ATOM	3408	N	VAL	439	44.825	88.049	52.287	1.00108.41	N
ATOM	3409	CA	VAL	439	43.540	88.201	51.655	1.00108.41	C
ATOM	3410	CB	VAL	439	43.645	88.592	50.204	1.00108.41	C
ATOM	3411	CG1	VAL	439	42.237	88.605	49.586	1.00108.41	C
ATOM	3412	CG2	VAL	439	44.377	89.941	50.099	1.00108.41	C
ATOM	3413	C	VAL	439	42.751	86.914	51.703	1.00108.41	C
ATOM	3414	O	VAL	439	43.277	85.823	51.492	1.00108.41	O
ATOM	3415	N	VAL	440	41.435	87.009	51.984	1.00102.41	N
ATOM	3416	CA	VAL	440	40.606	85.827	51.985	1.00102.41	C
ATOM	3417	CB	VAL	440	40.282	85.350	53.371	1.00102.41	C
ATOM	3418	CG1	VAL	440	39.396	84.099	53.278	1.00102.41	C
ATOM	3419	CG2	VAL	440	41.605	85.113	54.119	1.00102.41	C
ATOM	3420	C	VAL	440	39.314	86.153	51.296	1.00102.41	C
ATOM	3421	O	VAL	440	38.507	86.912	51.826	1.00102.41	O
ATOM	3422	N	SER	441	39.082	85.563	50.100	1.00148.75	N
ATOM	3423	CA	SER	441	37.884	85.763	49.319	1.00148.75	C
ATOM	3424	CB	SER	441	38.127	85.742	47.803	1.00148.75	C
ATOM	3425	OG	SER	441	39.040	86.760	47.437	1.00148.75	O
ATOM	3426	C	SER	441	36.943	84.617	49.580	1.00148.75	C
ATOM	3427	O	SER	441	37.192	83.775	50.444	1.00148.75	O
ATOM	3428	N	GLN	442	35.823	84.576	48.817	1.00227.30	N
ATOM	3429	CA	GLN	442	34.757	83.645	49.076	1.00227.30	C
ATOM	3430	CB	GLN	442	33.580	83.820	48.104	1.00227.30	C
ATOM	3431	CG	GLN	442	33.113	85.261	47.934	1.00227.30	C
ATOM	3432	CD	GLN	442	33.843	85.828	46.722	1.00227.30	C
ATOM	3433	OE1	GLN	442	35.056	85.683	46.578	1.00227.30	O
ATOM	3434	NE2	GLN	442	33.076	86.478	45.808	1.00227.30	N
ATOM	3435	C	GLN	442	35.128	82.208	48.920	1.00227.30	C
ATOM	3436	O	GLN	442	35.434	81.547	49.909	1.00227.30	O
ATOM	3437	N	GLU	443	35.249	81.726	47.664	1.00187.26	N
ATOM	3438	CA	GLU	443	35.446	80.321	47.455	1.00187.26	C
ATOM	3439	CB	GLU	443	35.594	79.994	45.956	1.00187.26	C
ATOM	3440	CG	GLU	443	36.531	78.825	45.638	1.00187.26	C
ATOM	3441	CD	GLU	443	35.930	77.519	46.118	1.00187.26	C
ATOM	3442	OE1	GLU	443	35.669	77.390	47.343	1.00187.26	O
ATOM	3443	OE2	GLU	443	35.731	76.625	45.255	1.00187.26	O
ATOM	3444	C	GLU	443	36.724	79.948	48.117	1.00187.26	C
ATOM	3445	O	GLU	443	37.791	80.307	47.634	1.00187.26	O
ATOM	3446	N	PRO	444	36.663	79.282	49.240	1.00140.32	N
ATOM	3447	CA	PRO	444	37.839	78.857	49.926	1.00140.32	C
ATOM	3448	CD	PRO	444	35.445	78.736	49.818	1.00140.32	C
ATOM	3449	CB	PRO	444	37.348	78.333	51.274	1.00140.32	C
ATOM	3450	CG	PRO	444	35.932	77.813	50.950	1.00140.32	C
ATOM	3451	C	PRO	444	38.329	77.763	49.067	1.00140.32	C
ATOM	3452	O	PRO	444	37.614	76.770	48.936	1.00140.32	O
ATOM	3453	N	VAL	445	39.545	77.862	48.522	1.00187.27	N
ATOM	3454	CA	VAL	445	39.873	76.763	47.698	1.00187.27	C
ATOM	3455	CB	VAL	445	40.193	77.143	46.279	1.00187.27	C
ATOM	3456	CG1	VAL	445	41.501	77.954	46.262	1.00187.27	C
ATOM	3457	CG2	VAL	445	40.230	75.860	45.431	1.00187.27	C
ATOM	3458	C	VAL	445	41.051	76.089	48.269	1.00187.27	C
ATOM	3459	O	VAL	445	42.023	76.720	48.681	1.00187.27	O
ATOM	3460	N	LEU	446	40.961	74.755	48.312	1.00131.66	N
ATOM	3461	CA	LEU	446	42.026	73.982	48.844	1.00131.66	C
ATOM	3462	CB	LEU	446	41.606	73.126	50.048	1.00131.66	C
ATOM	3463	CG	LEU	446	41.200	73.989	51.253	1.00131.66	C
ATOM	3464	CD1	LEU	446	40.784	73.123	52.451	1.00131.66	C
ATOM	3465	CD2	LEU	446	42.304	75.000	51.596	1.00131.66	C
ATOM	3466	C	LEU	446	42.428	73.076	47.743	1.00131.66	C
ATOM	3467	O	LEU	446	41.610	72.355	47.174	1.00131.66	O
ATOM	3468	N	PHE	447	43.724	73.107	47.413	1.00232.49	N
ATOM	3469	CA	PHE	447	44.212	72.306	46.349	1.00232.49	C
ATOM	3470	CB	PHE	447	45.674	72.621	45.999	1.00232.49	C
ATOM	3471	CG	PHE	447	45.762	74.101	45.832	1.00232.49	C

ATOM	3472	CD1	PHE	447	45.435	74.714	44.645	1.00232.49
ATOM	3473	CD2	PHE	447	46.153	74.883	46.894	1.00232.49
ATOM	3474	CE1	PHE	447	45.520	76.081	44.516	1.00232.49
ATOM	3475	CE2	PHE	447	46.239	76.249	46.770	1.00232.49
ATOM	3476	CZ	PHE	447	45.925	76.854	45.577	1.00232.49
ATOM	3477	C	PHE	447	44.139	70.894	46.825	1.00232.49
ATOM	3478	O	PHE	447	44.057	70.636	48.024	1.00232.49
ATOM	3479	N	ALA	448	44.121	69.921	45.902	1.00105.66
ATOM	3480	CA	ALA	448	44.009	68.585	46.408	1.00105.66
ATOM	3481	CB	ALA	448	43.648	67.553	45.327	1.00105.66
ATOM	3482	C	ALA	448	45.337	68.220	46.968	1.00105.66
ATOM	3483	O	ALA	448	46.305	68.035	46.229	1.00105.66
ATOM	3484	N	THR	449	45.404	68.116	48.313	1.00147.35
ATOM	3485	CA	THR	449	46.658	67.810	48.921	1.00147.35
ATOM	3486	CB	THR	449	47.644	68.923	48.709	1.00147.35
ATOM	3487	OG1	THR	449	48.964	68.463	48.927	1.00147.35
ATOM	3488	CG2	THR	449	47.317	70.078	49.669	1.00147.35
ATOM	3489	C	THR	449	46.441	67.619	50.393	1.00147.35
ATOM	3490	O	THR	449	45.318	67.475	50.870	1.00147.35
ATOM	3491	N	THR	450	47.552	67.615	51.149	1.00127.76
ATOM	3492	CA	THR	450	47.581	67.429	52.570	1.00127.76
ATOM	3493	CB	THR	450	49.009	67.277	53.007	1.00127.76
ATOM	3494	OG1	THR	450	49.659	66.325	52.188	1.00127.76
ATOM	3495	CG2	THR	450	49.068	66.776	54.446	1.00127.76
ATOM	3496	C	THR	450	47.103	68.729	53.145	1.00127.76
ATOM	3497	O	THR	450	47.210	69.770	52.500	1.00127.76
ATOM	3498	N	ILE	451	46.550	68.713	54.374	1.00107.09
ATOM	3499	CA	ILE	451	46.138	69.950	54.972	1.00107.09
ATOM	3500	CB	ILE	451	45.562	69.762	56.348	1.00107.09
ATOM	3501	CG1	ILE	451	44.305	68.876	56.289	1.00107.09
ATOM	3502	CG2	ILE	451	45.299	71.152	56.951	1.00107.09
ATOM	3503	CD1	ILE	451	43.169	69.464	55.450	1.00107.09
ATOM	3504	C	ILE	451	47.392	70.749	55.108	1.00107.09
ATOM	3505	O	ILE	451	47.458	71.915	54.719	1.00107.09
ATOM	3506	N	ALA	452	48.459	70.088	55.589	1.00 61.88
ATOM	3507	CA	ALA	452	49.691	70.769	55.844	1.00 61.88
ATOM	3508	CB	ALA	452	50.809	69.812	56.291	1.00 61.88
ATOM	3509	C	ALA	452	50.155	71.422	54.581	1.00 61.88
ATOM	3510	O	ALA	452	50.463	72.612	54.571	1.00 61.88
ATOM	3511	N	GLU	453	50.123	70.690	53.456	1.00113.30
ATOM	3512	CA	GLU	453	50.629	71.204	52.217	1.00113.30
ATOM	3513	CB	GLU	453	50.367	70.264	51.030	1.00113.30
ATOM	3514	CG	GLU	453	51.393	69.151	50.858	1.00113.30
ATOM	3515	CD	GLU	453	52.557	69.782	50.112	1.00113.30
ATOM	3516	OE1	GLU	453	52.632	71.039	50.103	1.00113.30
ATOM	3517	OE2	GLU	453	53.382	69.025	49.537	1.00113.30
ATOM	3518	C	GLU	453	49.925	72.477	51.874	1.00113.30
ATOM	3519	O	GLU	453	50.545	73.404	51.359	1.00113.30
ATOM	3520	N	ASN	454	48.607	72.556	52.121	1.00 73.09
ATOM	3521	CA	ASN	454	47.880	73.740	51.757	1.00 73.09
ATOM	3522	CB	ASN	454	46.374	73.623	52.039	1.00 73.09
ATOM	3523	CG	ASN	454	45.791	72.667	51.007	1.00 73.09
ATOM	3524	OD1	ASN	454	45.842	72.925	49.805	1.00 73.09
ATOM	3525	ND2	ASN	454	45.232	71.524	51.487	1.00 73.09
ATOM	3526	C	ASN	454	48.408	74.903	52.532	1.00 73.09
ATOM	3527	O	ASN	454	48.690	75.957	51.965	1.00 73.09
ATOM	3528	N	ILE	455	48.600	74.730	53.851	1.00103.40
ATOM	3529	CA	ILE	455	49.116	75.812	54.638	1.00103.40
ATOM	3530	CB	ILE	455	49.309	75.476	56.094	1.00103.40
ATOM	3531	CG1	ILE	455	47.956	75.306	56.815	1.00103.40
ATOM	3532	CG2	ILE	455	50.187	76.580	56.705	1.00103.40
ATOM	3533	CD1	ILE	455	47.144	74.098	56.356	1.00103.40
ATOM	3534	C	ILE	455	50.452	76.145	54.049	1.00103.40
ATOM	3535	O	ILE	455	50.819	77.313	53.931	1.00103.40
ATOM	3536	N	ARG	456	51.199	75.109	53.624	1.00136.33
ATOM	3537	CA	ARG	456	52.498	75.301	53.053	1.00136.33
ATOM	3538	CB	ARG	456	53.266	74.000	52.760	1.00136.33
ATOM	3539	CG	ARG	456	54.644	74.280	52.155	1.00136.33
ATOM	3540	CD	ARG	456	55.701	73.212	52.444	1.00136.33
ATOM	3541	NE	ARG	456	55.286	71.941	51.790	1.00136.33
ATOM	3542	CZ	ARG	456	55.241	70.797	52.533	1.00136.33
ATOM	3543	NH1	ARG	456	55.529	70.847	53.866	1.00136.33
ATOM	3544	NH2	ARG	456	54.910	69.609	51.948	1.00136.33
ATOM	3545	C	ARG	456	52.375	76.091	51.783	1.00136.33



ATOM	3546	O	ARG	456	53.288	76.819	51.418	1.00136.33
ATOM	3547	N	TYR	457	51.263	75.973	51.042	1.00170.36
ATOM	3548	CA	TYR	457	51.103	76.787	49.867	1.00170.36
ATOM	3549	CB	TYR	457	49.727	76.614	49.199	1.00170.36
ATOM	3550	CG	TYR	457	49.763	75.429	48.295	1.00170.36
ATOM	3551	CD1	TYR	457	49.829	74.145	48.785	1.00170.36
ATOM	3552	CD2	TYR	457	49.764	75.624	46.933	1.00170.36
ATOM	3553	CE1	TYR	457	49.869	73.073	47.923	1.00170.36
ATOM	3554	CE2	TYR	457	49.802	74.558	46.068	1.00170.36
ATOM	3555	CZ	TYR	457	49.853	73.279	46.564	1.00170.36
ATOM	3556	OH	TYR	457	49.893	72.181	45.679	1.00170.36
ATOM	3557	C	TYR	457	51.187	78.196	50.335	1.00170.36
ATOM	3558	O	TYR	457	51.756	79.056	49.664	1.00170.36
ATOM	3559	N	GLY	458	50.636	78.451	51.532	1.00 45.33
ATOM	3560	CA	GLY	458	50.642	79.779	52.058	1.00 45.33
ATOM	3561	C	GLY	458	52.064	80.225	52.127	1.00 45.33
ATOM	3562	O	GLY	458	52.378	81.363	51.783	1.00 45.33
ATOM	3563	N	ARG	459	52.969	79.346	52.594	1.00154.94
ATOM	3564	CA	ARG	459	54.347	79.740	52.605	1.00154.94
ATOM	3565	CB	ARG	459	54.773	80.378	53.936	1.00154.94
ATOM	3566	CG	ARG	459	56.130	81.080	53.877	1.00154.94
ATOM	3567	CD	ARG	459	56.417	81.935	55.112	1.00154.94
ATOM	3568	NE	ARG	459	56.514	81.018	56.281	1.00154.94
ATOM	3569	CZ	ARG	459	56.068	81.428	57.503	1.00154.94
ATOM	3570	NH1	ARG	459	55.502	82.662	57.644	1.00154.94
ATOM	3571	NH2	ARG	459	56.187	80.604	58.585	1.00154.94
ATOM	3572	C	ARG	459	55.160	78.511	52.376	1.00154.94
ATOM	3573	O	ARG	459	55.093	77.582	53.181	1.00154.94
ATOM	3574	N	GLU	460	55.955	78.481	51.280	1.00140.07
ATOM	3575	CA	GLU	460	56.630	77.275	50.869	1.00140.07
ATOM	3576	CB	GLU	460	57.624	77.521	49.721	1.00140.07
ATOM	3577	CG	GLU	460	56.976	78.103	48.464	1.00140.07
ATOM	3578	CD	GLU	460	56.802	79.604	48.665	1.00140.07
ATOM	3579	OE1	GLU	460	57.253	80.123	49.721	1.00140.07
ATOM	3580	OE2	GLU	460	56.224	80.256	47.755	1.00140.07
ATOM	3581	C	GLU	460	57.440	76.768	52.036	1.00140.07
ATOM	3582	O	GLU	460	57.127	75.715	52.592	1.00140.07
ATOM	3583	N	ASN	461	58.445	77.537	52.514	1.00 72.97
ATOM	3584	CA	ASN	461	59.222	77.035	53.615	1.00 72.97
ATOM	3585	CB	ASN	461	60.627	77.653	53.723	1.00 72.97
ATOM	3586	CG	ASN	461	60.467	79.134	54.027	1.00 72.97
ATOM	3587	OD1	ASN	461	60.284	79.527	55.178	1.00 72.97
ATOM	3588	ND2	ASN	461	60.543	79.984	52.968	1.00 72.97
ATOM	3589	C	ASN	461	58.483	77.355	54.879	1.00 72.97
ATOM	3590	O	ASN	461	57.984	78.466	55.049	1.00 72.97
ATOM	3591	N	VAL	462	58.376	76.376	55.802	1.00136.19
ATOM	3592	CA	VAL	462	57.660	76.636	57.020	1.00136.19
ATOM	3593	CB	VAL	462	56.272	77.126	56.726	1.00136.19
ATOM	3594	CG1	VAL	462	55.576	76.074	55.847	1.00136.19
ATOM	3595	CG2	VAL	462	55.539	77.419	58.040	1.00136.19
ATOM	3596	C	VAL	462	57.559	75.344	57.777	1.00136.19
ATOM	3597	O	VAL	462	57.309	74.293	57.189	1.00136.19
ATOM	3598	N	THR	463	57.722	75.391	59.117	1.00 62.55
ATOM	3599	CA	THR	463	57.696	74.180	59.890	1.00 62.55
ATOM	3600	CB	THR	463	58.633	74.205	61.066	1.00 62.55
ATOM	3601	OG1	THR	463	59.968	74.419	60.628	1.00 62.55
ATOM	3602	CG2	THR	463	58.524	72.868	61.822	1.00 62.55
ATOM	3603	C	THR	463	56.314	73.940	60.418	1.00 62.55
ATOM	3604	O	THR	463	55.576	74.864	60.752	1.00 62.55
ATOM	3605	N	MET	464	55.971	72.652	60.591	1.00144.83
ATOM	3606	CA	MET	464	54.680	72.214	61.036	1.00144.83
ATOM	3607	CB	MET	464	54.551	70.690	61.144	1.00144.83
ATOM	3608	CG	MET	464	54.279	70.049	59.792	1.00144.83
ATOM	3609	SD	MET	464	52.764	70.706	59.040	1.00144.83
ATOM	3610	CE	MET	464	51.756	70.464	60.531	1.00144.83
ATOM	3611	C	MET	464	54.461	72.778	62.381	1.00144.83
ATOM	3612	O	MET	464	53.329	72.899	62.835	1.00144.83
ATOM	3613	N	ASP	465	55.548	73.063	63.098	1.00101.90
ATOM	3614	CA	ASP	465	55.339	73.647	64.378	1.00101.90
ATOM	3615	CB	ASP	465	56.663	73.952	65.094	1.00101.90
ATOM	3616	CG	ASP	465	56.365	74.219	66.559	1.00101.90
ATOM	3617	OD1	ASP	465	55.162	74.334	66.918	1.00101.90
ATOM	3618	OD2	ASP	465	57.347	74.310	67.342	1.00101.90
ATOM	3619	C	ASP	465	54.608	74.935	64.152	1.00101.90

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ATOM	3620	O	ASP	465	53.626	75.215	64.836	1.00101.90
ATOM	3621	N	GLU	466	55.048	75.757	63.174	1.00153.82
ATOM	3622	CA	GLU	466	54.335	76.985	62.966	1.00153.82
ATOM	3623	CB	GLU	466	55.074	78.067	62.156	1.00153.82
ATOM	3624	CG	GLU	466	55.871	77.576	60.959	1.00153.82
ATOM	3625	CD	GLU	466	57.323	77.499	61.403	1.00153.82
ATOM	3626	OE1	GLU	466	57.674	76.543	62.144	1.00153.82
ATOM	3627	OE2	GLU	466	58.098	78.413	61.014	1.00153.82
ATOM	3628	C	GLU	466	52.973	76.730	62.405	1.00153.82
ATOM	3629	O	GLU	466	52.017	77.407	62.773	1.00153.82
ATOM	3630	N	ILE	467	52.831	75.736	61.514	1.00 64.50
ATOM	3631	CA	ILE	467	51.545	75.451	60.948	1.00 64.50
ATOM	3632	CB	ILE	467	51.629	74.329	59.970	1.00 64.50
ATOM	3633	CG1	ILE	467	52.552	74.756	58.820	1.00 64.50
ATOM	3634	CG2	ILE	467	50.204	73.948	59.535	1.00 64.50
ATOM	3635	CD1	ILE	467	53.103	73.590	58.011	1.00 64.50
ATOM	3636	C	ILE	467	50.625	75.063	62.060	1.00 64.50
ATOM	3637	O	ILE	467	49.479	75.505	62.119	1.00 64.50
ATOM	3638	N	GLU	468	51.120	74.248	63.003	1.00 53.56
ATOM	3639	CA	GLU	468	50.320	73.789	64.094	1.00 53.56
ATOM	3640	CB	GLU	468	51.128	72.938	65.086	1.00 53.56
ATOM	3641	CG	GLU	468	50.282	72.293	66.186	1.00 53.56
ATOM	3642	CD	GLU	468	51.203	71.410	67.018	1.00 53.56
ATOM	3643	OE1	GLU	468	52.429	71.408	66.731	1.00 53.56
ATOM	3644	OE2	GLU	468	50.695	70.727	67.947	1.00 53.56
ATOM	3645	C	GLU	468	49.832	75.014	64.787	1.00 53.56
ATOM	3646	O	GLU	468	48.643	75.155	65.064	1.00 53.56
ATOM	3647	N	LYS	469	50.738	75.975	65.021	1.00116.28
ATOM	3648	CA	LYS	469	50.318	77.186	65.652	1.00116.28
ATOM	3649	CB	LYS	469	51.467	78.174	65.901	1.00116.28
ATOM	3650	CG	LYS	469	50.955	79.606	66.033	1.00116.28
ATOM	3651	CD	LYS	469	49.864	79.792	67.084	1.00116.28
ATOM	3652	CE	LYS	469	49.095	81.096	66.875	1.00116.28
ATOM	3653	NZ	LYS	469	47.797	81.041	67.577	1.00116.28
ATOM	3654	C	LYS	469	49.302	77.869	64.789	1.00116.28
ATOM	3655	O	LYS	469	48.261	78.307	65.275	1.00116.28
ATOM	3656	N	ALA	470	49.547	77.927	63.469	1.00 58.13
ATOM	3657	CA	ALA	470	48.677	78.677	62.613	1.00 58.13
ATOM	3658	CB	ALA	470	49.095	78.585	61.136	1.00 58.13
ATOM	3659	C	ALA	470	47.285	78.137	62.715	1.00 58.13
ATOM	3660	O	ALA	470	46.336	78.876	62.970	1.00 58.13
ATOM	3661	N	VAL	471	47.147	76.809	62.606	1.00135.04
ATOM	3662	CA	VAL	471	45.878	76.146	62.584	1.00135.04
ATOM	3663	CB	VAL	471	46.119	74.663	62.641	1.00135.04
ATOM	3664	CG1	VAL	471	44.799	73.890	62.628	1.00135.04
ATOM	3665	CG2	VAL	471	47.088	74.291	61.512	1.00135.04
ATOM	3666	C	VAL	471	45.139	76.514	63.825	1.00135.04
ATOM	3667	O	VAL	471	44.030	77.044	63.774	1.00135.04
ATOM	3668	N	LYS	472	45.791	76.321	64.981	1.00110.64
ATOM	3669	CA	LYS	472	45.142	76.531	66.238	1.00110.64
ATOM	3670	CB	LYS	472	46.086	76.336	67.435	1.00110.64
ATOM	3671	CG	LYS	472	46.672	74.927	67.527	1.00110.64
ATOM	3672	CD	LYS	472	47.819	74.810	68.531	1.00110.64
ATOM	3673	CE	LYS	472	48.489	73.436	68.534	1.00110.64
ATOM	3674	NZ	LYS	472	47.489	72.380	68.803	1.00110.64
ATOM	3675	C	LYS	472	44.656	77.943	66.287	1.00110.64
ATOM	3676	O	LYS	472	43.574	78.212	66.805	1.00110.64
ATOM	3677	N	GLU	473	45.438	78.891	65.743	1.00 71.37
ATOM	3678	CA	GLU	473	45.031	80.267	65.817	1.00 71.37
ATOM	3679	CB	GLU	473	46.076	81.226	65.230	1.00 71.37
ATOM	3680	CG	GLU	473	45.826	82.686	65.607	1.00 71.37
ATOM	3681	CD	GLU	473	46.972	83.517	65.051	1.00 71.37
ATOM	3682	OE1	GLU	473	48.132	83.301	65.493	1.00 71.37
ATOM	3683	OE2	GLU	473	46.702	84.378	64.173	1.00 71.37
ATOM	3684	C	GLU	473	43.751	80.454	65.050	1.00 71.37
ATOM	3685	O	GLU	473	42.848	81.176	65.467	1.00 71.37
ATOM	3686	N	ALA	474	43.686	79.801	63.883	1.00129.91
ATOM	3687	CA	ALA	474	42.641	79.714	62.899	1.00129.91
ATOM	3688	CB	ALA	474	43.119	79.115	61.564	1.00129.91
ATOM	3689	C	ALA	474	41.486	78.888	63.388	1.00129.91
ATOM	3690	O	ALA	474	40.623	78.540	62.591	1.00129.91
ATOM	3691	N	ASN	475	41.584	78.316	64.602	1.00128.61
ATOM	3692	CA	ASN	475	40.575	77.469	65.197	1.00128.61
ATOM	3693	CB	ASN	475	39.237	78.138	65.611	1.00128.61

ATOM	3694	CG	ASN	475	38.342	78.513	64.434	1.00128.61	C
ATOM	3695	OD1	ASN	475	38.584	79.488	63.730	1.00128.61	O
ATOM	3696	ND2	ASN	475	37.242	77.737	64.238	1.00128.61	N
ATOM	3697	C	ASN	475	40.297	76.323	64.276	1.00128.61	C
ATOM	3698	O	ASN	475	39.156	75.893	64.120	1.00128.61	O
ATOM	3699	N	ALA	476	41.335	75.920	63.520	1.00102.14	N
ATOM	3700	CA	ALA	476	41.390	74.771	62.658	1.00102.14	C
ATOM	3701	CB	ALA	476	42.334	74.973	61.463	1.00102.14	C
ATOM	3702	C	ALA	476	41.753	73.506	63.382	1.00102.14	C
ATOM	3703	O	ALA	476	41.403	72.404	62.965	1.00102.14	O
ATOM	3704	N	TYR	477	42.498	73.645	64.490	1.00103.38	N
ATOM	3705	CA	TYR	477	43.168	72.563	65.154	1.00103.38	C
ATOM	3706	CB	TYR	477	43.927	73.069	66.396	1.00103.38	C
ATOM	3707	CG	TYR	477	44.636	71.937	67.050	1.00103.38	C
ATOM	3708	CD1	TYR	477	45.659	71.284	66.401	1.00103.38	C
ATOM	3709	CD2	TYR	477	44.305	71.557	68.329	1.00103.38	C
ATOM	3710	CE1	TYR	477	46.322	70.245	67.010	1.00103.38	C
ATOM	3711	CE2	TYR	477	44.966	70.520	68.943	1.00103.38	C
ATOM	3712	CZ	TYR	477	45.974	69.860	68.282	1.00103.38	C
ATOM	3713	OH	TYR	477	46.653	68.795	68.912	1.00103.38	O
ATOM	3714	C	TYR	477	42.244	71.440	65.530	1.00103.38	C
ATOM	3715	O	TYR	477	42.640	70.281	65.430	1.00103.38	O
ATOM	3716	N	ASP	478	41.013	71.718	65.997	1.00 75.93	N
ATOM	3717	CA	ASP	478	40.156	70.647	66.437	1.00 75.93	C
ATOM	3718	CB	ASP	478	38.870	71.165	67.110	1.00 75.93	C
ATOM	3719	CG	ASP	478	38.093	72.069	66.154	1.00 75.93	C
ATOM	3720	OD1	ASP	478	38.675	72.533	65.139	1.00 75.93	O
ATOM	3721	OD2	ASP	478	36.897	72.328	66.446	1.00 75.93	O
ATOM	3722	C	ASP	478	39.771	69.665	65.356	1.00 75.93	C
ATOM	3723	O	ASP	478	40.040	68.471	65.485	1.00 75.93	O
ATOM	3724	N	PHE	479	39.168	70.125	64.242	1.00 73.46	N
ATOM	3725	CA	PHE	479	38.684	69.215	63.239	1.00 73.46	C
ATOM	3726	CB	PHE	479	37.799	69.865	62.155	1.00 73.46	C
ATOM	3727	CG	PHE	479	38.543	70.894	61.372	1.00 73.46	C
ATOM	3728	CD1	PHE	479	39.421	70.530	60.377	1.00 73.46	C
ATOM	3729	CD2	PHE	479	38.333	72.233	61.615	1.00 73.46	C
ATOM	3730	CE1	PHE	479	40.092	71.486	59.650	1.00 73.46	C
ATOM	3731	CE2	PHE	479	39.000	73.193	60.890	1.00 73.46	C
ATOM	3732	CZ	PHE	479	39.884	72.820	59.906	1.00 73.46	C
ATOM	3733	C	PHE	479	39.827	68.514	62.587	1.00 73.46	C
ATOM	3734	O	PHE	479	39.744	67.329	62.268	1.00 73.46	O
ATOM	3735	N	ILE	480	40.940	69.230	62.376	1.00103.85	N
ATOM	3736	CA	ILE	480	42.074	68.623	61.753	1.00103.85	C
ATOM	3737	CB	ILE	480	43.225	69.578	61.544	1.00103.85	C
ATOM	3738	CG1	ILE	480	43.724	70.208	62.862	1.00103.85	C
ATOM	3739	CG2	ILE	480	42.780	70.607	60.492	1.00103.85	C
ATOM	3740	CD1	ILE	480	44.613	69.314	63.726	1.00103.85	C
ATOM	3741	C	ILE	480	42.492	67.471	62.605	1.00103.85	C
ATOM	3742	O	ILE	480	42.980	66.470	62.087	1.00103.85	O
ATOM	3743	N	MET	481	42.383	67.611	63.940	1.00 59.54	N
ATOM	3744	CA	MET	481	42.738	66.540	64.825	1.00 59.54	C
ATOM	3745	CB	MET	481	42.776	66.977	66.295	1.00 59.54	C
ATOM	3746	CG	MET	481	43.931	67.930	66.583	1.00 59.54	C
ATOM	3747	SD	MET	481	45.555	67.204	66.219	1.00 59.54	S
ATOM	3748	CE	MET	481	45.374	65.840	67.405	1.00 59.54	C
ATOM	3749	C	MET	481	41.778	65.388	64.743	1.00 59.54	C
ATOM	3750	O	MET	481	42.196	64.237	64.625	1.00 59.54	O
ATOM	3751	N	LYS	482	40.458	65.669	64.796	1.00116.10	N
ATOM	3752	CA	LYS	482	39.465	64.627	64.828	1.00116.10	C
ATOM	3753	CB	LYS	482	38.037	65.164	65.037	1.00116.10	C
ATOM	3754	CG	LYS	482	37.018	64.081	65.405	1.00116.10	C
ATOM	3755	CD	LYS	482	36.794	63.024	64.322	1.00116.10	C
ATOM	3756	CE	LYS	482	35.940	61.842	64.788	1.00116.10	C
ATOM	3757	NZ	LYS	482	34.582	62.302	65.157	1.00116.10	N
ATOM	3758	C	LYS	482	39.495	63.900	63.531	1.00116.10	C
ATOM	3759	O	LYS	482	39.452	62.671	63.494	1.00116.10	O
ATOM	3760	N	LEU	483	39.606	64.665	62.433	1.00 71.99	N
ATOM	3761	CA	LEU	483	39.646	64.103	61.121	1.00 71.99	C
ATOM	3762	CB	LEU	483	39.947	65.169	60.050	1.00 71.99	C
ATOM	3763	CG	LEU	483	40.269	64.628	58.645	1.00 71.99	C
ATOM	3764	CD1	LEU	483	39.112	63.817	58.047	1.00 71.99	C
ATOM	3765	CD2	LEU	483	40.727	65.772	57.725	1.00 71.99	C
ATOM	3766	C	LEU	483	40.746	63.098	61.123	1.00 71.99	C
ATOM	3767	O	LEU	483	41.758	63.253	61.804	1.00 71.99	O

ATOM	3768	N	PRO	484	40.539	62.046	60.387	1.00175.79	N
ATOM	3769	CA	PRO	484	41.501	60.985	60.360	1.00175.79	C
ATOM	3770	CD	PRO	484	39.196	61.578	60.088	1.00175.79	C
ATOM	3771	CB	PRO	484	40.830	59.840	59.608	1.00175.79	C
ATOM	3772	CG	PRO	484	39.332	60.060	59.885	1.00175.79	C
ATOM	3773	C	PRO	484	42.720	61.498	59.707	1.00175.79	C
ATOM	3774	O	PRO	484	42.646	62.603	59.194	1.00175.79	O
ATOM	3775	N	HIS	485	43.844	60.768	59.822	1.00 99.32	N
ATOM	3776	CA	HIS	485	45.111	60.998	59.180	1.00 99.32	C
ATOM	3777	ND1	HIS	485	45.173	58.712	56.776	1.00 99.32	N
ATOM	3778	CG	HIS	485	44.452	59.868	56.983	1.00 99.32	C
ATOM	3779	CB	HIS	485	44.999	61.097	57.646	1.00 99.32	C
ATOM	3780	NE2	HIS	485	43.150	58.361	55.921	1.00 99.32	N
ATOM	3781	CD2	HIS	485	43.219	59.635	56.455	1.00 99.32	C
ATOM	3782	CE1	HIS	485	44.347	57.845	56.138	1.00 99.32	C
ATOM	3783	C	HIS	485	45.785	62.261	59.632	1.00 99.32	C
ATOM	3784	O	HIS	485	46.959	62.451	59.320	1.00 99.32	O
ATOM	3785	N	LYS	486	45.118	63.127	60.423	1.00122.16	N
ATOM	3786	CA	LYS	486	45.800	64.291	60.935	1.00122.16	C
ATOM	3787	CB	LYS	486	47.135	63.938	61.616	1.00122.16	C
ATOM	3788	CG	LYS	486	47.654	65.010	62.573	1.00122.16	C
ATOM	3789	CD	LYS	486	48.710	64.478	63.545	1.00122.16	C
ATOM	3790	CE	LYS	486	49.108	65.480	64.631	1.00122.16	C
ATOM	3791	NZ	LYS	486	49.914	64.802	65.672	1.00122.16	N
ATOM	3792	C	LYS	486	46.030	65.335	59.871	1.00122.16	C
ATOM	3793	O	LYS	486	45.210	65.564	58.988	1.00122.16	O
ATOM	3794	N	PHE	487	47.160	66.058	59.979	1.00 83.36	N
ATOM	3795	CA	PHE	487	47.538	67.115	59.077	1.00 83.36	C
ATOM	3796	CB	PHE	487	48.785	67.890	59.541	1.00 83.36	C
ATOM	3797	CG	PHE	487	48.418	68.676	60.756	1.00 83.36	C
ATOM	3798	CD1	PHE	487	47.716	69.855	60.634	1.00 83.36	C
ATOM	3799	CD2	PHE	487	48.780	68.249	62.014	1.00 83.36	C
ATOM	3800	CE1	PHE	487	47.374	70.592	61.743	1.00 83.36	C
ATOM	3801	CE2	PHE	487	48.440	68.982	63.129	1.00 83.36	C
ATOM	3802	CZ	PHE	487	47.735	70.155	62.995	1.00 83.36	C
ATOM	3803	C	PHE	487	47.826	66.541	57.732	1.00 83.36	C
ATOM	3804	O	PHE	487	47.633	67.204	56.715	1.00 83.36	O
ATOM	3805	N	ASP	488	48.334	65.297	57.730	1.00 69.52	N
ATOM	3806	CA	ASP	488	48.747	64.526	56.593	1.00 69.52	C
ATOM	3807	CB	ASP	488	49.379	63.189	56.999	1.00 69.52	C
ATOM	3808	CG	ASP	488	50.654	63.510	57.758	1.00 69.52	C
ATOM	3809	OD1	ASP	488	51.310	64.529	57.416	1.00 69.52	O
ATOM	3810	OD2	ASP	488	50.979	62.745	58.704	1.00 69.52	O
ATOM	3811	C	ASP	488	47.563	64.199	55.746	1.00 69.52	C
ATOM	3812	O	ASP	488	47.732	63.771	54.605	1.00 69.52	O
ATOM	3813	N	THR	489	46.340	64.328	56.299	1.00 81.99	N
ATOM	3814	CA	THR	489	45.161	63.973	55.563	1.00 81.99	C
ATOM	3815	CB	THR	489	43.894	64.435	56.173	1.00 81.99	C
ATOM	3816	OG1	THR	489	43.873	63.986	57.499	1.00 81.99	O
ATOM	3817	CG2	THR	489	42.699	63.824	55.419	1.00 81.99	C
ATOM	3818	C	THR	489	45.190	64.704	54.268	1.00 81.99	C
ATOM	3819	O	THR	489	45.823	65.751	54.156	1.00 81.99	O
ATOM	3820	N	LEU	490	44.497	64.131	53.266	1.00169.39	N
ATOM	3821	CA	LEU	490	44.429	64.639	51.927	1.00169.39	C
ATOM	3822	CB	LEU	490	44.178	63.579	50.856	1.00169.39	C
ATOM	3823	CG	LEU	490	45.250	62.511	50.681	1.00169.39	C
ATOM	3824	CD1	LEU	490	45.444	61.680	51.960	1.00169.39	C
ATOM	3825	CD2	LEU	490	44.889	61.653	49.464	1.00169.39	C
ATOM	3826	C	LEU	490	43.212	65.474	51.770	1.00169.39	C
ATOM	3827	O	LEU	490	42.546	65.845	52.737	1.00169.39	O
ATOM	3828	N	VAL	491	42.936	65.844	50.499	1.00104.17	N
ATOM	3829	CA	VAL	491	41.724	66.553	50.264	1.00104.17	C
ATOM	3830	CB	VAL	491	41.956	68.027	50.094	1.00104.17	C
ATOM	3831	CG1	VAL	491	40.610	68.719	49.837	1.00104.17	C
ATOM	3832	CG2	VAL	491	42.686	68.549	51.342	1.00104.17	C
ATOM	3833	C	VAL	491	41.070	66.025	49.017	1.00104.17	C
ATOM	3834	O	VAL	491	41.072	66.706	47.995	1.00104.17	O
ATOM	3835	N	GLY	492	40.578	64.766	49.068	1.00 74.07	N
ATOM	3836	CA	GLY	492	39.675	64.119	48.144	1.00 74.07	C
ATOM	3837	C	GLY	492	39.610	64.754	46.785	1.00 74.07	C
ATOM	3838	O	GLY	492	38.515	65.071	46.321	1.00 74.07	O
ATOM	3839	N	GLU	493	40.744	64.922	46.086	1.00137.11	N
ATOM	3840	CA	GLU	493	40.700	65.506	44.775	1.00137.11	C
ATOM	3841	CB	GLU	493	40.161	64.543	43.700	1.00137.11	C

ATOM	3842	CG	GLU	493	41.124	63.401	43.369	1.00137.11	C
ATOM	3843	CD	GLU	493	42.197	63.944	42.435	1.00137.11	C
ATOM	3844	OE1	GLU	493	41.834	64.368	41.305	1.00137.11	O
ATOM	3845	OE2	GLU	493	43.391	63.944	42.836	1.00137.11	O
ATOM	3846	C	GLU	493	39.916	66.786	44.703	1.00137.11	C
ATOM	3847	O	GLU	493	38.741	66.805	44.343	1.00137.11	O
ATOM	3848	N	ARG	494	40.562	67.891	45.118	1.00273.96	N
ATOM	3849	CA	ARG	494	40.040	69.226	45.073	1.00273.96	C
ATOM	3850	CB	ARG	494	38.925	69.529	44.053	1.00273.96	C
ATOM	3851	CG	ARG	494	38.923	71.024	43.692	1.00273.96	C
ATOM	3852	CD	ARG	494	37.583	71.605	43.237	1.00273.96	C
ATOM	3853	NE	ARG	494	37.038	72.385	44.385	1.00273.96	N
ATOM	3854	CZ	ARG	494	37.336	73.708	44.564	1.00273.96	C
ATOM	3855	NH1	ARG	494	38.002	74.428	43.614	1.00273.96	N
ATOM	3856	NH2	ARG	494	36.960	74.314	45.727	1.00273.96	N
ATOM	3857	C	ARG	494	39.518	69.494	46.415	1.00273.96	C
ATOM	3858	O	ARG	494	39.597	68.654	47.301	1.00273.96	O
ATOM	3859	N	GLY	495	38.919	70.671	46.558	1.00128.97	N
ATOM	3860	CA	GLY	495	38.390	71.181	47.777	1.00128.97	C
ATOM	3861	C	GLY	495	37.294	70.295	48.278	1.00128.97	C
ATOM	3862	O	GLY	495	36.714	70.612	49.310	1.00128.97	O
ATOM	3863	N	ALA	496	36.849	69.267	47.520	1.00130.30	N
ATOM	3864	CA	ALA	496	35.695	68.572	48.043	1.00130.30	C
ATOM	3865	CB	ALA	496	34.755	68.095	46.924	1.00130.30	C
ATOM	3866	C	ALA	496	35.980	67.361	48.895	1.00130.30	C
ATOM	3867	O	ALA	496	35.937	66.236	48.401	1.00130.30	O
ATOM	3868	N	GLN	497	36.456	67.525	50.148	1.00167.32	N
ATOM	3869	CA	GLN	497	36.379	66.479	51.135	1.00167.32	C
ATOM	3870	CB	GLN	497	37.775	66.087	51.647	1.00167.32	C
ATOM	3871	CG	GLN	497	37.822	64.769	52.421	1.00167.32	C
ATOM	3872	CD	GLN	497	39.271	64.298	52.404	1.00167.32	C
ATOM	3873	OE1	GLN	497	40.109	64.871	51.710	1.00167.32	O
ATOM	3874	NE2	GLN	497	39.579	63.219	53.172	1.00167.32	N
ATOM	3875	C	GLN	497	35.495	66.876	52.299	1.00167.32	C
ATOM	3876	O	GLN	497	34.755	66.069	52.864	1.00167.32	O
ATOM	3877	N	LEU	498	35.586	68.179	52.677	1.00200.30	N
ATOM	3878	CA	LEU	498	35.079	68.714	53.922	1.00200.30	C
ATOM	3879	CB	LEU	498	36.176	69.380	54.774	1.00200.30	C
ATOM	3880	CG	LEU	498	37.418	68.532	55.104	1.00200.30	C
ATOM	3881	CD1	LEU	498	37.084	67.364	56.039	1.00200.30	C
ATOM	3882	CD2	LEU	498	38.165	68.103	53.830	1.00200.30	C
ATOM	3883	C	LEU	498	34.137	69.856	53.686	1.00200.30	C
ATOM	3884	O	LEU	498	33.934	70.320	52.566	1.00200.30	O
ATOM	3885	N	SER	499	33.558	70.357	54.799	1.00 53.49	N
ATOM	3886	CA	SER	499	32.626	71.444	54.762	1.00 53.49	C
ATOM	3887	CB	SER	499	31.908	71.672	56.100	1.00 53.49	C
ATOM	3888	OG	SER	499	32.850	72.051	57.092	1.00 53.49	O
ATOM	3889	C	SER	499	33.347	72.707	54.420	1.00 53.49	C
ATOM	3890	O	SER	499	34.463	72.964	54.871	1.00 53.49	O
ATOM	3891	N	GLY	500	32.653	73.574	53.662	1.00 50.45	N
ATOM	3892	CA	GLY	500	33.193	74.811	53.185	1.00 50.45	C
ATOM	3893	C	GLY	500	33.615	75.585	54.380	1.00 50.45	C
ATOM	3894	O	GLY	500	34.538	76.398	54.319	1.00 50.45	O
ATOM	3895	N	GLY	501	32.912	75.375	55.504	1.00 51.86	N
ATOM	3896	CA	GLY	501	33.260	76.137	56.659	1.00 51.86	C
ATOM	3897	C	GLY	501	34.692	75.860	57.004	1.00 51.86	C
ATOM	3898	O	GLY	501	35.486	76.787	57.136	1.00 51.86	O
ATOM	3899	N	GLN	502	35.076	74.573	57.104	1.00 74.87	N
ATOM	3900	CA	GLN	502	36.416	74.209	57.473	1.00 74.87	C
ATOM	3901	CB	GLN	502	36.559	72.686	57.629	1.00 74.87	C
ATOM	3902	CG	GLN	502	35.713	72.130	58.777	1.00 74.87	C
ATOM	3903	CD	GLN	502	35.625	70.620	58.615	1.00 74.87	C
ATOM	3904	OE1	GLN	502	35.003	70.120	57.678	1.00 74.87	O
ATOM	3905	NE2	GLN	502	36.259	69.866	59.552	1.00 74.87	N
ATOM	3906	C	GLN	502	37.345	74.660	56.396	1.00 74.87	C
ATOM	3907	O	GLN	502	38.439	75.149	56.678	1.00 74.87	O
ATOM	3908	N	LYS	503	36.913	74.530	55.127	1.00 99.37	N
ATOM	3909	CA	LYS	503	37.778	74.888	54.041	1.00 99.37	C
ATOM	3910	CB	LYS	503	37.101	74.775	52.664	1.00 99.37	C
ATOM	3911	CG	LYS	503	36.771	73.335	52.265	1.00 99.37	C
ATOM	3912	CD	LYS	503	35.898	73.235	51.014	1.00 99.37	C
ATOM	3913	CE	LYS	503	36.688	73.389	49.713	1.00 99.37	C
ATOM	3914	NZ	LYS	503	35.787	73.230	48.550	1.00 99.37	N
ATOM	3915	C	LYS	503	38.186	76.311	54.230	1.00 99.37	C

ATOM	3916	O	LYS	503	39.375	76.620	54.301	1.00	99.37	O
ATOM	3917	N	GLN	504	37.200	77.189	54.456	1.00	75.27	N
ATOM	3918	CA	GLN	504	37.481	78.586	54.611	1.00	75.27	C
ATOM	3919	CB	GLN	504	36.223	79.399	54.958	1.00	75.27	C
ATOM	3920	CG	GLN	504	36.488	80.892	55.164	1.00	75.27	C
ATOM	3921	CD	GLN	504	36.922	81.484	53.835	1.00	75.27	C
ATOM	3922	OE1	GLN	504	38.113	81.548	53.532	1.00	75.27	O
ATOM	3923	NE2	GLN	504	35.931	81.927	53.017	1.00	75.27	N
ATOM	3924	C	GLN	504	38.437	78.733	55.749	1.00	75.27	C
ATOM	3925	O	GLN	504	39.393	79.506	55.675	1.00	75.27	O
ATOM	3926	N	ARG	505	38.227	77.946	56.817	1.00	206.26	N
ATOM	3927	CA	ARG	505	39.056	78.061	57.978	1.00	206.26	C
ATOM	3928	CB	ARG	505	38.622	77.091	59.088	1.00	206.26	C
ATOM	3929	CG	ARG	505	37.322	77.537	59.757	1.00	206.26	C
ATOM	3930	CD	ARG	505	36.464	76.395	60.298	1.00	206.26	C
ATOM	3931	NE	ARG	505	37.020	75.953	61.601	1.00	206.26	N
ATOM	3932	CZ	ARG	505	36.268	75.130	62.386	1.00	206.26	C
ATOM	3933	NH1	ARG	505	35.016	74.761	61.983	1.00	206.26	N
ATOM	3934	NH2	ARG	505	36.765	74.678	63.573	1.00	206.26	N
ATOM	3935	C	ARG	505	40.469	77.763	57.611	1.00	206.26	C
ATOM	3936	O	ARG	505	41.365	78.550	57.910	1.00	206.26	O
ATOM	3937	N	ILE	506	40.690	76.661	56.871	1.00	64.53	N
ATOM	3938	CA	ILE	506	42.027	76.254	56.541	1.00	64.53	C
ATOM	3939	CB	ILE	506	42.067	75.055	55.634	1.00	64.53	C
ATOM	3940	CG1	ILE	506	41.479	73.822	56.344	1.00	64.53	C
ATOM	3941	CG2	ILE	506	43.515	74.863	55.155	1.00	64.53	C
ATOM	3942	CD1	ILE	506	41.234	72.631	55.416	1.00	64.53	C
ATOM	3943	C	ILE	506	42.670	77.392	55.820	1.00	64.53	C
ATOM	3944	O	ILE	506	43.823	77.732	56.082	1.00	64.53	O
ATOM	3945	N	ALA	507	41.904	78.051	54.935	1.00	65.42	N
ATOM	3946	CA	ALA	507	42.462	79.120	54.163	1.00	65.42	C
ATOM	3947	CB	ALA	507	41.431	79.773	53.228	1.00	65.42	C
ATOM	3948	C	ALA	507	42.962	80.180	55.085	1.00	65.42	C
ATOM	3949	O	ALA	507	44.093	80.641	54.954	1.00	65.42	O
ATOM	3950	N	ILE	508	42.162	80.529	56.102	1.00	58.47	N
ATOM	3951	CA	ILE	508	42.524	81.583	57.002	1.00	58.47	C
ATOM	3952	CB	ILE	508	41.528	81.752	58.109	1.00	58.47	C
ATOM	3953	CG1	ILE	508	40.161	82.141	57.520	1.00	58.47	C
ATOM	3954	CG2	ILE	508	42.089	82.775	59.110	1.00	58.47	C
ATOM	3955	CD1	ILE	508	39.009	82.029	58.516	1.00	58.47	C
ATOM	3956	C	ILE	508	43.836	81.218	57.601	1.00	58.47	C
ATOM	3957	O	ILE	508	44.691	82.075	57.810	1.00	58.47	O
ATOM	3958	N	ALA	509	44.028	79.923	57.892	1.00	49.26	N
ATOM	3959	CA	ALA	509	45.288	79.503	58.421	1.00	49.26	C
ATOM	3960	CB	ALA	509	45.333	77.994	58.715	1.00	49.26	C
ATOM	3961	C	ALA	509	46.353	79.790	57.404	1.00	49.26	C
ATOM	3962	O	ALA	509	47.394	80.352	57.743	1.00	49.26	O
ATOM	3963	N	ARG	510	46.112	79.461	56.114	1.00	181.26	N
ATOM	3964	CA	ARG	510	47.178	79.645	55.163	1.00	181.26	C
ATOM	3965	CB	ARG	510	46.891	79.178	53.716	1.00	181.26	C
ATOM	3966	CG	ARG	510	45.812	79.947	52.952	1.00	181.26	C
ATOM	3967	CD	ARG	510	45.730	79.578	51.470	1.00	181.26	C
ATOM	3968	NE	ARG	510	45.199	78.190	51.382	1.00	181.26	N
ATOM	3969	CZ	ARG	510	44.756	77.712	50.184	1.00	181.26	C
ATOM	3970	NH1	ARG	510	44.787	78.513	49.079	1.00	181.26	N
ATOM	3971	NH2	ARG	510	44.284	76.436	50.090	1.00	181.26	N
ATOM	3972	C	ARG	510	47.553	81.090	55.119	1.00	181.26	C
ATOM	3973	O	ARG	510	48.720	81.442	55.273	1.00	181.26	O
ATOM	3974	N	ALA	511	46.556	81.976	54.995	1.00	55.60	N
ATOM	3975	CA	ALA	511	46.823	83.383	54.959	1.00	55.60	C
ATOM	3976	CB	ALA	511	45.548	84.229	54.817	1.00	55.60	C
ATOM	3977	C	ALA	511	47.463	83.743	56.258	1.00	55.60	C
ATOM	3978	O	ALA	511	48.301	84.640	56.328	1.00	55.60	O
ATOM	3979	N	LEU	512	47.070	83.039	57.331	1.00	128.26	N
ATOM	3980	CA	LEU	512	47.532	83.343	58.652	1.00	128.26	C
ATOM	3981	CB	LEU	512	46.919	82.400	59.704	1.00	128.26	C
ATOM	3982	CG	LEU	512	47.098	82.853	61.166	1.00	128.26	C
ATOM	3983	CD1	LEU	512	48.571	82.874	61.604	1.00	128.26	C
ATOM	3984	CD2	LEU	512	46.378	84.189	61.407	1.00	128.26	C
ATOM	3985	C	LEU	512	49.029	83.201	58.703	1.00	128.26	C
ATOM	3986	O	LEU	512	49.702	83.999	59.352	1.00	128.26	O
ATOM	3987	N	VAL	513	49.586	82.163	58.042	1.00	67.00	N
ATOM	3988	CA	VAL	513	51.005	81.914	58.003	1.00	67.00	C
ATOM	3989	CB	VAL	513	51.338	80.600	57.354	1.00	67.00	C

ATOM	3990	CG1	VAL	513	52.867	80.433	57.302	1.00	67.00	C
ATOM	3991	CG2	VAL	513	50.613	79.485	58.128	1.00	67.00	C
ATOM	3992	C	VAL	513	51.661	83.003	57.218	1.00	67.00	C
ATOM	3993	O	VAL	513	52.797	83.391	57.487	1.00	67.00	O
ATOM	3994	N	ARG	514	50.953	83.513	56.198	1.00	205.19	N
ATOM	3995	CA	ARG	514	51.473	84.591	55.410	1.00	205.19	C
ATOM	3996	CB	ARG	514	50.526	84.996	54.270	1.00	205.19	C
ATOM	3997	CG	ARG	514	50.402	83.874	53.235	1.00	205.19	C
ATOM	3998	CD	ARG	514	49.532	84.199	52.021	1.00	205.19	C
ATOM	3999	NE	ARG	514	50.179	85.321	51.289	1.00	205.19	N
ATOM	4000	CZ	ARG	514	51.225	85.079	50.451	1.00	205.19	C
ATOM	4001	NH1	ARG	514	51.752	83.823	50.363	1.00	205.19	N
ATOM	4002	NH2	ARG	514	51.743	86.100	49.710	1.00	205.19	N
ATOM	4003	C	ARG	514	51.703	85.760	56.336	1.00	205.19	C
ATOM	4004	O	ARG	514	52.642	86.529	56.140	1.00	205.19	O
ATOM	4005	N	ASN	515	50.839	85.910	57.366	1.00	106.58	N
ATOM	4006	CA	ASN	515	50.884	86.905	58.424	1.00	106.58	C
ATOM	4007	CB	ASN	515	51.778	86.532	59.629	1.00	106.58	C
ATOM	4008	CG	ASN	515	53.241	86.450	59.215	1.00	106.58	C
ATOM	4009	OD1	ASN	515	53.613	85.683	58.328	1.00	106.58	O
ATOM	4010	ND2	ASN	515	54.104	87.260	59.886	1.00	106.58	N
ATOM	4011	C	ASN	515	51.210	88.304	57.966	1.00	106.58	C
ATOM	4012	O	ASN	515	52.324	88.799	58.123	1.00	106.58	O
ATOM	4013	N	PRO	516	50.213	88.923	57.388	1.00	142.56	N
ATOM	4014	CA	PRO	516	50.238	90.262	56.836	1.00	142.56	C
ATOM	4015	CD	PRO	516	49.060	88.168	56.933	1.00	142.56	C
ATOM	4016	CB	PRO	516	49.155	90.277	55.777	1.00	142.56	C
ATOM	4017	CG	PRO	516	48.163	89.205	56.250	1.00	142.56	C
ATOM	4018	C	PRO	516	49.969	91.373	57.813	1.00	142.56	C
ATOM	4019	O	PRO	516	49.834	91.142	59.011	1.00	142.56	O
ATOM	4020	N	LYS	517	50.077	92.615	57.310	1.00	193.18	N
ATOM	4021	CA	LYS	517	49.739	93.874	57.917	1.00	193.18	C
ATOM	4022	CB	LYS	517	50.670	94.991	57.426	1.00	193.18	C
ATOM	4023	CG	LYS	517	52.149	94.657	57.637	1.00	193.18	C
ATOM	4024	CD	LYS	517	52.665	93.551	56.709	1.00	193.18	C
ATOM	4025	CE	LYS	517	54.111	93.116	56.962	1.00	193.18	C
ATOM	4026	NZ	LYS	517	54.178	92.212	58.133	1.00	193.18	N
ATOM	4027	C	LYS	517	48.344	94.288	57.576	1.00	193.18	C
ATOM	4028	O	LYS	517	47.733	95.097	58.276	1.00	193.18	O
ATOM	4029	N	ILE	518	47.861	93.833	56.402	1.00	91.97	N
ATOM	4030	CA	ILE	518	46.574	94.259	55.948	1.00	91.97	C
ATOM	4031	CB	ILE	518	46.658	95.151	54.749	1.00	91.97	C
ATOM	4032	CG1	ILE	518	47.529	96.365	55.107	1.00	91.97	C
ATOM	4033	CG2	ILE	518	45.236	95.540	54.316	1.00	91.97	C
ATOM	4034	CD1	ILE	518	47.920	97.221	53.909	1.00	91.97	C
ATOM	4035	C	ILE	518	45.823	93.022	55.600	1.00	91.97	C
ATOM	4036	O	ILE	518	46.415	92.031	55.178	1.00	91.97	O
ATOM	4037	N	LEU	519	44.496	93.030	55.812	1.00	133.63	N
ATOM	4038	CA	LEU	519	43.745	91.841	55.561	1.00	133.63	C
ATOM	4039	CB	LEU	519	43.371	91.124	56.875	1.00	133.63	C
ATOM	4040	CG	LEU	519	42.837	89.683	56.739	1.00	133.63	C
ATOM	4041	CD1	LEU	519	42.507	89.094	58.119	1.00	133.63	C
ATOM	4042	CD2	LEU	519	41.660	89.581	55.760	1.00	133.63	C
ATOM	4043	C	LEU	519	42.499	92.248	54.838	1.00	133.63	C
ATOM	4044	O	LEU	519	41.750	93.105	55.306	1.00	133.63	O
ATOM	4045	N	LEU	520	42.256	91.640	53.659	1.00	110.99	N
ATOM	4046	CA	LEU	520	41.081	91.955	52.903	1.00	110.99	C
ATOM	4047	CB	LEU	520	41.375	92.277	51.427	1.00	110.99	C
ATOM	4048	CG	LEU	520	42.244	93.532	51.218	1.00	110.99	C
ATOM	4049	CD1	LEU	520	43.616	93.375	51.892	1.00	110.99	C
ATOM	4050	CD2	LEU	520	42.365	93.886	49.725	1.00	110.99	C
ATOM	4051	C	LEU	520	40.204	90.747	52.909	1.00	110.99	C
ATOM	4052	O	LEU	520	40.653	89.631	52.652	1.00	110.99	O
ATOM	4053	N	LEU	521	38.913	90.935	53.228	1.00	128.19	N
ATOM	4054	CA	LEU	521	38.033	89.804	53.192	1.00	128.19	C
ATOM	4055	CB	LEU	521	37.261	89.582	54.504	1.00	128.19	C
ATOM	4056	CG	LEU	521	38.171	89.351	55.725	1.00	128.19	C
ATOM	4057	CD1	LEU	521	38.928	90.634	56.107	1.00	128.19	C
ATOM	4058	CD2	LEU	521	37.388	88.734	56.895	1.00	128.19	C
ATOM	4059	C	LEU	521	37.024	90.098	52.122	1.00	128.19	C
ATOM	4060	O	LEU	521	36.211	91.010	52.258	1.00	128.19	O
ATOM	4061	N	ASP	522	37.042	89.330	51.016	1.00	122.82	N
ATOM	4062	CA	ASP	522	36.108	89.591	49.962	1.00	122.82	C
ATOM	4063	CB	ASP	522	36.721	89.329	48.574	1.00	122.82	C

ATOM	4064	CG	ASP	522	35.879	90.017	47.509	1.00122.82
ATOM	4065	OD1	ASP	522	34.791	90.550	47.855	1.00122.82
ATOM	4066	OD2	ASP	522	36.326	90.027	46.331	1.00122.82
ATOM	4067	C	ASP	522	34.944	88.665	50.146	1.00122.82
ATOM	4068	O	ASP	522	34.843	87.624	49.498	1.00122.82
ATOM	4069	N	GLU	523	34.015	89.041	51.043	1.00151.58
ATOM	4070	CA	GLU	523	32.818	88.277	51.280	1.00151.58
ATOM	4071	CB	GLU	523	32.037	88.041	49.976	1.00151.58
ATOM	4072	CG	GLU	523	31.606	89.323	49.259	1.00151.58
ATOM	4073	CD	GLU	523	31.135	88.932	47.864	1.00151.58
ATOM	4074	OE1	GLU	523	30.650	87.780	47.709	1.00151.58
ATOM	4075	OE2	GLU	523	31.255	89.775	46.935	1.00151.58
ATOM	4076	C	GLU	523	33.154	86.912	51.824	1.00151.58
ATOM	4077	O	GLU	523	32.311	86.015	51.768	1.00151.58
ATOM	4078	N	ALA	524	34.311	86.764	52.513	1.00126.93
ATOM	4079	CA	ALA	524	34.837	85.455	52.807	1.00126.93
ATOM	4080	CB	ALA	524	36.062	85.519	53.733	1.00126.93
ATOM	4081	C	ALA	524	33.834	84.542	53.470	1.00126.93
ATOM	4082	O	ALA	524	33.425	83.567	52.851	1.00126.93
ATOM	4083	N	THR	525	33.258	84.892	54.630	1.00126.02
ATOM	4084	CA	THR	525	32.400	83.971	55.334	1.00126.02
ATOM	4085	CB	THR	525	31.799	84.569	56.552	1.00126.02
ATOM	4086	OG1	THR	525	32.802	84.968	57.469	1.00126.02
ATOM	4087	CG2	THR	525	30.911	83.495	57.168	1.00126.02
ATOM	4088	C	THR	525	31.232	83.552	54.487	1.00126.02
ATOM	4089	O	THR	525	30.730	82.441	54.643	1.00126.02
ATOM	4090	N	SER	526	30.775	84.427	53.572	1.00102.17
ATOM	4091	CA	SER	526	29.589	84.250	52.764	1.00102.17
ATOM	4092	CB	SER	526	29.483	85.271	51.616	1.00102.17
ATOM	4093	OG	SER	526	29.371	86.589	52.132	1.00102.17
ATOM	4094	C	SER	526	29.475	82.894	52.143	1.00102.17
ATOM	4095	O	SER	526	30.392	82.076	52.168	1.00102.17
ATOM	4096	N	ALA	527	28.267	82.625	51.597	1.00 58.25
ATOM	4097	CA	ALA	527	27.950	81.391	50.939	1.00 58.25
ATOM	4098	CB	ALA	527	28.694	81.204	49.605	1.00 58.25
ATOM	4099	C	ALA	527	28.328	80.275	51.851	1.00 58.25
ATOM	4100	O	ALA	527	28.978	79.320	51.433	1.00 58.25
ATOM	4101	N	LEU	528	27.945	80.388	53.137	1.00 77.12
ATOM	4102	CA	LEU	528	28.246	79.362	54.096	1.00 77.12
ATOM	4103	CB	LEU	528	29.540	79.677	54.868	1.00 77.12
ATOM	4104	CG	LEU	528	30.059	78.542	55.766	1.00 77.12
ATOM	4105	CD1	LEU	528	30.472	77.313	54.939	1.00 77.12
ATOM	4106	CD2	LEU	528	31.186	79.044	56.686	1.00 77.12
ATOM	4107	C	LEU	528	27.082	79.348	55.048	1.00 77.12
ATOM	4108	O	LEU	528	26.314	80.305	55.098	1.00 77.12
ATOM	4109	N	ASP	529	26.893	78.270	55.838	1.00 72.42
ATOM	4110	CA	ASP	529	25.725	78.250	56.684	1.00 72.42
ATOM	4111	CB	ASP	529	25.393	76.871	57.283	1.00 72.42
ATOM	4112	CG	ASP	529	26.464	76.495	58.287	1.00 72.42
ATOM	4113	OD1	ASP	529	26.427	77.077	59.401	1.00 72.42
ATOM	4114	OD2	ASP	529	27.318	75.625	57.971	1.00 72.42
ATOM	4115	C	ASP	529	25.898	79.261	57.793	1.00 72.42
ATOM	4116	O	ASP	529	27.013	79.700	58.065	1.00 72.42
ATOM	4117	N	THR	530	24.781	79.668	58.452	1.00140.50
ATOM	4118	CA	THR	530	24.781	80.698	59.474	1.00140.50
ATOM	4119	CB	THR	530	23.421	80.945	60.051	1.00140.50
ATOM	4120	OG1	THR	530	22.512	81.305	59.023	1.00140.50
ATOM	4121	CG2	THR	530	23.537	82.091	61.070	1.00140.50
ATOM	4122	C	THR	530	25.674	80.282	60.607	1.00140.50
ATOM	4123	O	THR	530	26.587	81.016	60.976	1.00140.50
ATOM	4124	N	GLU	531	25.493	79.059	61.143	1.00115.37
ATOM	4125	CA	GLU	531	26.226	78.670	62.319	1.00115.37
ATOM	4126	CB	GLU	531	25.882	77.234	62.760	1.00115.37
ATOM	4127	CG	GLU	531	26.940	76.552	63.633	1.00115.37
ATOM	4128	CD	GLU	531	27.398	77.505	64.722	1.00115.37
ATOM	4129	OE1	GLU	531	26.540	78.020	65.486	1.00115.37
ATOM	4130	OE2	GLU	531	28.633	77.743	64.783	1.00115.37
ATOM	4131	C	GLU	531	27.701	78.761	62.084	1.00115.37
ATOM	4132	O	GLU	531	28.420	79.389	62.862	1.00115.37
ATOM	4133	N	SER	532	28.189	78.164	60.989	1.00 64.07
ATOM	4134	CA	SER	532	29.590	78.159	60.705	1.00 64.07
ATOM	4135	CB	SER	532	29.908	77.366	59.431	1.00 64.07
ATOM	4136	OG	SER	532	29.199	77.927	58.337	1.00 64.07
ATOM	4137	C	SER	532	30.012	79.568	60.501	1.00 64.07



ATOM	4138	O	SER	532	31.051	79.969	61.019	1.00	64.07	O
ATOM	4139	N	GLU	533	29.163	80.372	59.825	1.00	85.14	N
ATOM	4140	CA	GLU	533	29.480	81.733	59.510	1.00	85.14	C
ATOM	4141	CB	GLU	533	28.283	82.503	58.922	1.00	85.14	C
ATOM	4142	CG	GLU	533	28.519	84.011	58.794	1.00	85.14	C
ATOM	4143	CD	GLU	533	27.473	84.577	57.847	1.00	85.14	C
ATOM	4144	OE1	GLU	533	27.346	84.029	56.720	1.00	85.14	O
ATOM	4145	OE2	GLU	533	26.785	85.557	58.237	1.00	85.14	O
ATOM	4146	C	GLU	533	29.859	82.394	60.789	1.00	85.14	C
ATOM	4147	O	GLU	533	30.739	83.253	60.815	1.00	85.14	O
ATOM	4148	N	ALA	534	29.201	82.008	61.894	1.00	59.35	N
ATOM	4149	CA	ALA	534	29.591	82.590	63.142	1.00	59.35	C
ATOM	4150	CB	ALA	534	28.699	82.142	64.311	1.00	59.35	C
ATOM	4151	C	ALA	534	30.999	82.187	63.477	1.00	59.35	C
ATOM	4152	O	ALA	534	31.865	83.039	63.660	1.00	59.35	O
ATOM	4153	N	VAL	535	31.291	80.872	63.459	1.00	54.62	N
ATOM	4154	CA	VAL	535	32.574	80.366	63.872	1.00	54.62	C
ATOM	4155	CB	VAL	535	32.656	78.874	63.744	1.00	54.62	C
ATOM	4156	CG1	VAL	535	34.052	78.411	64.195	1.00	54.62	C
ATOM	4157	CG2	VAL	535	31.491	78.252	64.531	1.00	54.62	C
ATOM	4158	C	VAL	535	33.628	80.956	62.984	1.00	54.62	C
ATOM	4159	O	VAL	535	34.688	81.361	63.457	1.00	54.62	O
ATOM	4160	N	VAL	536	33.349	81.012	61.670	1.00	58.14	N
ATOM	4161	CA	VAL	536	34.278	81.503	60.691	1.00	58.14	C
ATOM	4162	CB	VAL	536	33.743	81.390	59.293	1.00	58.14	C
ATOM	4163	CG1	VAL	536	34.742	82.049	58.328	1.00	58.14	C
ATOM	4164	CG2	VAL	536	33.467	79.906	58.993	1.00	58.14	C
ATOM	4165	C	VAL	536	34.557	82.947	60.950	1.00	58.14	C
ATOM	4166	O	VAL	536	35.711	83.370	60.983	1.00	58.14	O
ATOM	4167	N	GLN	537	33.503	83.745	61.176	1.00	74.14	N
ATOM	4168	CA	GLN	537	33.701	85.144	61.402	1.00	74.14	C
ATOM	4169	CB	GLN	537	32.373	85.880	61.665	1.00	74.14	C
ATOM	4170	CG	GLN	537	32.480	87.407	61.698	1.00	74.14	C
ATOM	4171	CD	GLN	537	32.416	87.921	60.267	1.00	74.14	C
ATOM	4172	OE1	GLN	537	31.537	87.538	59.496	1.00	74.14	O
ATOM	4173	NE2	GLN	537	33.371	88.816	59.899	1.00	74.14	N
ATOM	4174	C	GLN	537	34.540	85.250	62.642	1.00	74.14	C
ATOM	4175	O	GLN	537	35.384	86.136	62.756	1.00	74.14	O
ATOM	4176	N	VAL	538	34.323	84.328	63.602	1.00	45.67	N
ATOM	4177	CA	VAL	538	35.019	84.327	64.861	1.00	45.67	C
ATOM	4178	CB	VAL	538	34.618	83.176	65.737	1.00	45.67	C
ATOM	4179	CG1	VAL	538	35.532	83.164	66.973	1.00	45.67	C
ATOM	4180	CG2	VAL	538	33.126	83.315	66.079	1.00	45.67	C
ATOM	4181	C	VAL	538	36.499	84.217	64.643	1.00	45.67	C
ATOM	4182	O	VAL	538	37.272	84.961	65.242	1.00	45.67	O
ATOM	4183	N	ALA	539	36.936	83.275	63.788	1.00	41.66	N
ATOM	4184	CA	ALA	539	38.332	83.086	63.502	1.00	41.66	C
ATOM	4185	CB	ALA	539	38.590	81.940	62.515	1.00	41.66	C
ATOM	4186	C	ALA	539	38.832	84.320	62.838	1.00	41.66	C
ATOM	4187	O	ALA	539	39.942	84.777	63.104	1.00	41.66	O
ATOM	4188	N	LEU	540	38.007	84.892	61.944	1.00	65.32	N
ATOM	4189	CA	LEU	540	38.413	86.055	61.225	1.00	65.32	C
ATOM	4190	CB	LEU	540	37.310	86.582	60.287	1.00	65.32	C
ATOM	4191	CG	LEU	540	36.953	85.618	59.139	1.00	65.32	C
ATOM	4192	CD1	LEU	540	35.853	86.202	58.237	1.00	65.32	C
ATOM	4193	CD2	LEU	540	38.204	85.209	58.346	1.00	65.32	C
ATOM	4194	C	LEU	540	38.676	87.110	62.243	1.00	65.32	C
ATOM	4195	O	LEU	540	39.713	87.768	62.209	1.00	65.32	O
ATOM	4196	N	ASP	541	37.759	87.240	63.218	1.00	63.31	N
ATOM	4197	CA	ASP	541	37.833	88.265	64.217	1.00	63.31	C
ATOM	4198	CB	ASP	541	36.674	88.177	65.225	1.00	63.31	C
ATOM	4199	CG	ASP	541	35.372	88.447	64.481	1.00	63.31	C
ATOM	4200	OD1	ASP	541	35.436	88.687	63.247	1.00	63.31	O
ATOM	4201	OD2	ASP	541	34.296	88.414	65.136	1.00	63.31	O
ATOM	4202	C	ASP	541	39.108	88.118	64.989	1.00	63.31	C
ATOM	4203	O	ASP	541	39.843	89.085	65.172	1.00	63.31	O
ATOM	4204	N	LYS	542	39.441	86.893	65.428	1.00	96.72	N
ATOM	4205	CA	LYS	542	40.627	86.731	66.211	1.00	96.72	C
ATOM	4206	CB	LYS	542	40.880	85.285	66.677	1.00	96.72	C
ATOM	4207	CG	LYS	542	39.878	84.799	67.727	1.00	96.72	C
ATOM	4208	CD	LYS	542	40.122	83.361	68.189	1.00	96.72	C
ATOM	4209	CE	LYS	542	40.080	82.328	67.063	1.00	96.72	C
ATOM	4210	NZ	LYS	542	40.514	81.008	67.573	1.00	96.72	N
ATOM	4211	C	LYS	542	41.789	87.158	65.373	1.00	96.72	C

ATOM	4212	O	LYS	542	42.821	87.561	65.902	1.00	96.72	O
ATOM	4213	N	ALA	543	41.694	86.965	64.046	1.00	75.39	N
ATOM	4214	CA	ALA	543	42.759	87.321	63.146	1.00	75.39	C
ATOM	4215	CB	ALA	543	42.600	86.658	61.768	1.00	75.39	C
ATOM	4216	C	ALA	543	42.950	88.798	62.887	1.00	75.39	C
ATOM	4217	O	ALA	543	44.063	89.308	62.998	1.00	75.39	O
ATOM	4218	N	ARG	544	41.851	89.510	62.555	1.00	119.59	N
ATOM	4219	CA	ARG	544	41.855	90.839	61.985	1.00	119.59	C
ATOM	4220	CB	ARG	544	40.460	91.287	61.515	1.00	119.59	C
ATOM	4221	CG	ARG	544	39.827	90.420	60.428	1.00	119.59	C
ATOM	4222	CD	ARG	544	38.637	91.106	59.753	1.00	119.59	C
ATOM	4223	NE	ARG	544	37.666	91.496	60.816	1.00	119.59	N
ATOM	4224	CZ	ARG	544	36.618	90.681	61.131	1.00	119.59	C
ATOM	4225	NH1	ARG	544	36.459	89.490	60.484	1.00	119.59	N
ATOM	4226	NH2	ARG	544	35.720	91.064	62.086	1.00	119.59	N
ATOM	4227	C	ARG	544	42.336	91.975	62.819	1.00	119.59	C
ATOM	4228	O	ARG	544	43.132	92.744	62.309	1.00	119.59	O
ATOM	4229	N	LYS	545	41.929	92.132	64.093	1.00	156.45	N
ATOM	4230	CA	LYS	545	42.191	93.381	64.776	1.00	156.45	C
ATOM	4231	CB	LYS	545	41.692	93.411	66.231	1.00	156.45	C
ATOM	4232	CG	LYS	545	40.180	93.597	66.367	1.00	156.45	C
ATOM	4233	CD	LYS	545	39.358	92.412	65.863	1.00	156.45	C
ATOM	4234	CE	LYS	545	37.852	92.626	66.019	1.00	156.45	C
ATOM	4235	NZ	LYS	545	37.524	92.838	67.447	1.00	156.45	N
ATOM	4236	C	LYS	545	43.648	93.709	64.813	1.00	156.45	C
ATOM	4237	O	LYS	545	44.017	94.868	64.621	1.00	156.45	O
ATOM	4238	N	GLY	546	44.513	92.700	65.014	1.00	42.24	N
ATOM	4239	CA	GLY	546	45.923	92.941	65.097	1.00	42.24	C
ATOM	4240	C	GLY	546	46.321	93.633	63.832	1.00	42.24	C
ATOM	4241	O	GLY	546	47.228	94.464	63.823	1.00	42.24	O
ATOM	4242	N	ARG	547	45.637	93.298	62.725	1.00	134.34	N
ATOM	4243	CA	ARG	547	45.946	93.853	61.436	1.00	134.34	C
ATOM	4244	CB	ARG	547	46.038	92.766	60.357	1.00	134.34	C
ATOM	4245	CG	ARG	547	47.291	91.902	60.499	1.00	134.34	C
ATOM	4246	CD	ARG	547	47.244	90.590	59.715	1.00	134.34	C
ATOM	4247	NE	ARG	547	46.549	89.583	60.562	1.00	134.34	N
ATOM	4248	CZ	ARG	547	47.247	88.960	61.557	1.00	134.34	C
ATOM	4249	NH1	ARG	547	48.532	89.332	61.821	1.00	134.34	N
ATOM	4250	NH2	ARG	547	46.666	87.969	62.292	1.00	134.34	N
ATOM	4251	C	ARG	547	44.931	94.882	60.969	1.00	134.34	C
ATOM	4252	O	ARG	547	43.773	94.931	61.366	1.00	134.34	O
ATOM	4253	N	THR	548	45.346	95.812	60.098	1.00	152.95	N
ATOM	4254	CA	THR	548	44.351	96.725	59.596	1.00	152.95	C
ATOM	4255	CB	THR	548	44.949	97.974	59.010	1.00	152.95	C
ATOM	4256	OG1	THR	548	43.930	98.832	58.519	1.00	152.95	O
ATOM	4257	CG2	THR	548	45.931	97.595	57.890	1.00	152.95	C
ATOM	4258	C	THR	548	43.625	95.989	58.503	1.00	152.95	C
ATOM	4259	O	THR	548	44.284	95.420	57.636	1.00	152.95	O
ATOM	4260	N	THR	549	42.262	95.961	58.496	1.00	184.58	N
ATOM	4261	CA	THR	549	41.651	95.164	57.464	1.00	184.58	C
ATOM	4262	CB	THR	549	41.129	93.827	57.913	1.00	184.58	C
ATOM	4263	OG1	THR	549	39.961	93.996	58.694	1.00	184.58	O
ATOM	4264	CG2	THR	549	42.203	93.104	58.739	1.00	184.58	C
ATOM	4265	C	THR	549	40.473	95.813	56.795	1.00	184.58	C
ATOM	4266	O	THR	549	39.582	96.386	57.424	1.00	184.58	O
ATOM	4267	N	ILE	550	40.410	95.654	55.458	1.00	129.76	N
ATOM	4268	CA	ILE	550	39.308	96.192	54.722	1.00	129.76	C
ATOM	4269	CB	ILE	550	39.757	96.979	53.514	1.00	129.76	C
ATOM	4270	CG1	ILE	550	38.609	97.803	52.913	1.00	129.76	C
ATOM	4271	CG2	ILE	550	40.425	96.017	52.517	1.00	129.76	C
ATOM	4272	CD1	ILE	550	37.500	96.949	52.307	1.00	129.76	C
ATOM	4273	C	ILE	550	38.450	95.022	54.322	1.00	129.76	C
ATOM	4274	O	ILE	550	38.919	94.066	53.707	1.00	129.76	O
ATOM	4275	N	VAL	551	37.153	95.044	54.703	1.00	118.97	N
ATOM	4276	CA	VAL	551	36.303	93.930	54.371	1.00	118.97	C
ATOM	4277	CB	VAL	551	35.756	93.218	55.573	1.00	118.97	C
ATOM	4278	CG1	VAL	551	34.869	94.197	56.363	1.00	118.97	C
ATOM	4279	CG2	VAL	551	35.016	91.957	55.096	1.00	118.97	C
ATOM	4280	C	VAL	551	35.121	94.402	53.571	1.00	118.97	C
ATOM	4281	O	VAL	551	34.476	95.395	53.906	1.00	118.97	O
ATOM	4282	N	ILE	552	34.803	93.671	52.481	1.00	134.69	N
ATOM	4283	CA	ILE	552	33.679	93.985	51.638	1.00	134.69	C
ATOM	4284	CB	ILE	552	34.070	94.201	50.196	1.00	134.69	C
ATOM	4285	CG1	ILE	552	32.885	94.670	49.324	1.00	134.69	C

ATOM	4286	CG2	ILE	552	34.747	92.916	49.692	1.00134.69	C
ATOM	4287	CD1	ILE	552	31.804	93.616	49.064	1.00134.69	C
ATOM	4288	C	ILE	552	32.765	92.813	51.724	1.00134.69	C
ATOM	4289	O	ILE	552	33.195	91.670	51.580	1.00134.69	O
ATOM	4290	N	ALA	553	31.465	93.038	51.986	1.00104.57	N
ATOM	4291	CA	ALA	553	30.695	91.840	52.088	1.00104.57	C
ATOM	4292	CB	ALA	553	30.997	91.039	53.367	1.00104.57	C
ATOM	4293	C	ALA	553	29.230	92.114	52.090	1.00104.57	C
ATOM	4294	O	ALA	553	28.759	93.250	52.147	1.00104.57	O
ATOM	4295	N	HIS	554	28.489	91.013	51.884	1.00161.53	N
ATOM	4296	CA	HIS	554	27.070	90.949	51.917	1.00161.53	C
ATOM	4297	ND1	HIS	554	26.243	91.072	48.838	1.00161.53	N
ATOM	4298	CG	HIS	554	26.823	90.075	49.590	1.00161.53	C
ATOM	4299	CB	HIS	554	26.506	89.827	51.033	1.00161.53	C
ATOM	4300	NE2	HIS	554	27.684	90.029	47.506	1.00161.53	N
ATOM	4301	CD2	HIS	554	27.700	89.447	48.761	1.00161.53	C
ATOM	4302	CE1	HIS	554	26.794	91.000	47.601	1.00161.53	C
ATOM	4303	C	HIS	554	26.488	90.793	53.304	1.00161.53	C
ATOM	4304	O	HIS	554	25.372	91.243	53.543	1.00161.53	O
ATOM	4305	N	ARG	555	27.192	90.146	54.261	1.00264.60	N
ATOM	4306	CA	ARG	555	26.552	89.795	55.505	1.00264.60	C
ATOM	4307	CB	ARG	555	27.398	88.854	56.385	1.00264.60	C
ATOM	4308	CG	ARG	555	27.912	87.583	55.697	1.00264.60	C
ATOM	4309	CD	ARG	555	27.200	87.227	54.393	1.00264.60	C
ATOM	4310	NE	ARG	555	25.741	87.139	54.672	1.00264.60	N
ATOM	4311	CZ	ARG	555	24.855	87.303	53.649	1.00264.60	C
ATOM	4312	NH1	ARG	555	25.310	87.512	52.379	1.00264.60	N
ATOM	4313	NH2	ARG	555	23.514	87.269	53.895	1.00264.60	N
ATOM	4314	C	ARG	555	26.345	91.020	56.300	1.00264.60	C
ATOM	4315	O	ARG	555	27.168	91.391	57.132	1.00264.60	O
ATOM	4316	N	LEU	556	25.166	91.621	56.125	1.00163.81	N
ATOM	4317	CA	LEU	556	24.870	92.820	56.834	1.00163.81	C
ATOM	4318	CB	LEU	556	23.454	93.366	56.586	1.00163.81	C
ATOM	4319	CG	LEU	556	23.214	93.890	55.160	1.00163.81	C
ATOM	4320	CD1	LEU	556	24.205	95.010	54.804	1.00163.81	C
ATOM	4321	CD2	LEU	556	23.170	92.753	54.134	1.00163.81	C
ATOM	4322	C	LEU	556	24.954	92.472	58.273	1.00163.81	C
ATOM	4323	O	LEU	556	25.306	93.301	59.104	1.00163.81	O
ATOM	4324	N	SER	557	24.647	91.212	58.606	1.00128.68	N
ATOM	4325	CA	SER	557	24.718	90.837	59.991	1.00128.68	C
ATOM	4326	CB	SER	557	24.456	89.340	60.197	1.00128.68	C
ATOM	4327	OG	SER	557	23.194	88.996	59.651	1.00128.68	O
ATOM	4328	C	SER	557	26.110	91.094	60.515	1.00128.68	C
ATOM	4329	O	SER	557	26.279	91.701	61.570	1.00128.68	O
ATOM	4330	N	THR	558	27.138	90.614	59.785	1.00120.70	N
ATOM	4331	CA	THR	558	28.539	90.691	60.127	1.00120.70	C
ATOM	4332	CB	THR	558	29.383	89.691	59.390	1.00120.70	C
ATOM	4333	OG1	THR	558	29.390	89.969	57.997	1.00120.70	O
ATOM	4334	CG2	THR	558	28.801	88.292	59.643	1.00120.70	C
ATOM	4335	C	THR	558	29.110	92.037	59.853	1.00120.70	C
ATOM	4336	O	THR	558	30.256	92.306	60.214	1.00120.70	O
ATOM	4337	N	VAL	559	28.403	92.863	59.067	1.00189.64	N
ATOM	4338	CA	VAL	559	28.952	94.152	58.788	1.00189.64	C
ATOM	4339	CB	VAL	559	28.236	94.983	57.757	1.00189.64	C
ATOM	4340	CG1	VAL	559	28.242	94.245	56.419	1.00189.64	C
ATOM	4341	CG2	VAL	559	26.856	95.388	58.274	1.00189.64	C
ATOM	4342	C	VAL	559	28.952	94.962	60.027	1.00189.64	C
ATOM	4343	O	VAL	559	29.879	95.732	60.262	1.00189.64	O
ATOM	4344	N	ARG	560	27.952	94.722	60.892	1.00194.97	N
ATOM	4345	CA	ARG	560	27.648	95.610	61.968	1.00194.97	C
ATOM	4346	CB	ARG	560	26.606	95.034	62.931	1.00194.97	C
ATOM	4347	CG	ARG	560	26.231	96.004	64.047	1.00194.97	C
ATOM	4348	CD	ARG	560	24.915	95.636	64.723	1.00194.97	C
ATOM	4349	NE	ARG	560	23.851	95.766	63.687	1.00194.97	N
ATOM	4350	CZ	ARG	560	22.800	94.897	63.679	1.00194.97	C
ATOM	4351	NH1	ARG	560	22.724	93.911	64.620	1.00194.97	N
ATOM	4352	NH2	ARG	560	21.827	95.008	62.728	1.00194.97	N
ATOM	4353	C	ARG	560	28.872	95.988	62.767	1.00194.97	C
ATOM	4354	O	ARG	560	29.103	97.177	62.982	1.00194.97	O
ATOM	4355	N	ASN	561	29.729	95.034	63.180	1.00140.13	N
ATOM	4356	CA	ASN	561	30.866	95.451	63.962	1.00140.13	C
ATOM	4357	CB	ASN	561	31.465	94.296	64.785	1.00140.13	C
ATOM	4358	CG	ASN	561	31.929	93.200	63.832	1.00140.13	C
ATOM	4359	OD1	ASN	561	31.271	92.898	62.837	1.00140.13	O

ATOM	4360	ND2	ASN	561	33.107	92.594	64.139	1.00140.13	N
ATOM	4361	C	ASN	561	31.941	95.998	63.062	1.00140.13	C
ATOM	4362	O	ASN	561	33.093	95.567	63.100	1.00140.13	O
ATOM	4363	N	ALA	562	31.608	97.030	62.266	1.00 61.55	N
ATOM	4364	CA	ALA	562	32.580	97.624	61.402	1.00 61.55	C
ATOM	4365	CB	ALA	562	32.048	97.911	59.986	1.00 61.55	C
ATOM	4366	C	ALA	562	32.938	98.930	62.023	1.00 61.55	C
ATOM	4367	O	ALA	562	32.067	99.673	62.478	1.00 61.55	O
ATOM	4368	N	ASP	563	34.249	99.237	62.056	1.00 77.12	N
ATOM	4369	CA	ASP	563	34.685	100.473	62.629	1.00 77.12	C
ATOM	4370	CB	ASP	563	36.209	100.664	62.548	1.00 77.12	C
ATOM	4371	CG	ASP	563	36.857	99.687	63.519	1.00 77.12	C
ATOM	4372	OD1	ASP	563	36.127	99.154	64.397	1.00 77.12	O
ATOM	4373	OD2	ASP	563	38.090	99.459	63.395	1.00 77.12	O
ATOM	4374	C	ASP	563	34.040	101.541	61.810	1.00 77.12	C
ATOM	4375	O	ASP	563	33.653	102.590	62.321	1.00 77.12	O
ATOM	4376	N	VAL	564	33.927	101.287	60.495	1.00142.57	N
ATOM	4377	CA	VAL	564	33.310	102.213	59.595	1.00142.57	C
ATOM	4378	CB	VAL	564	34.297	103.228	59.085	1.00142.57	C
ATOM	4379	CG1	VAL	564	35.524	102.482	58.529	1.00142.57	C
ATOM	4380	CG2	VAL	564	33.604	104.131	58.050	1.00142.57	C
ATOM	4381	C	VAL	564	32.789	101.430	58.427	1.00142.57	C
ATOM	4382	O	VAL	564	33.250	100.320	58.161	1.00142.57	O
ATOM	4383	N	ILE	565	31.791	101.993	57.712	1.00 97.27	N
ATOM	4384	CA	ILE	565	31.222	101.357	56.555	1.00 97.27	C
ATOM	4385	CB	ILE	565	29.853	100.814	56.823	1.00 97.27	C
ATOM	4386	CG1	ILE	565	29.975	99.774	57.950	1.00 97.27	C
ATOM	4387	CG2	ILE	565	29.281	100.234	55.517	1.00 97.27	C
ATOM	4388	CD1	ILE	565	28.669	99.453	58.660	1.00 97.27	C
ATOM	4389	C	ILE	565	31.164	102.396	55.481	1.00 97.27	C
ATOM	4390	O	ILE	565	31.162	103.590	55.773	1.00 97.27	O
ATOM	4391	N	ALA	566	31.177	101.968	54.201	1.00 65.52	N
ATOM	4392	CA	ALA	566	31.134	102.911	53.119	1.00 65.52	C
ATOM	4393	CB	ALA	566	32.488	103.083	52.415	1.00 65.52	C
ATOM	4394	C	ALA	566	30.149	102.410	52.101	1.00 65.52	C
ATOM	4395	O	ALA	566	29.997	101.206	51.890	1.00 65.52	O
ATOM	4396	N	GLY	567	29.462	103.342	51.409	1.00 66.01	N
ATOM	4397	CA	GLY	567	28.437	102.924	50.499	1.00 66.01	C
ATOM	4398	C	GLY	567	28.965	102.859	49.112	1.00 66.01	C
ATOM	4399	O	GLY	567	29.435	103.845	48.554	1.00 66.01	O
ATOM	4400	N	PHE	568	28.844	101.661	48.519	1.00108.06	N
ATOM	4401	CA	PHE	568	29.233	101.364	47.176	1.00108.06	C
ATOM	4402	CB	PHE	568	30.459	100.433	47.037	1.00108.06	C
ATOM	4403	CG	PHE	568	31.731	101.140	47.385	1.00108.06	C
ATOM	4404	CD1	PHE	568	32.298	102.032	46.503	1.00108.06	C
ATOM	4405	CD2	PHE	568	32.383	100.886	48.572	1.00108.06	C
ATOM	4406	CE1	PHE	568	33.474	102.678	46.809	1.00108.06	C
ATOM	4407	CE2	PHE	568	33.560	101.528	48.885	1.00108.06	C
ATOM	4408	CZ	PHE	568	34.107	102.429	48.004	1.00108.06	C
ATOM	4409	C	PHE	568	28.086	100.615	46.581	1.00108.06	C
ATOM	4410	O	PHE	568	27.133	100.254	47.271	1.00108.06	O
ATOM	4411	N	ASP	569	28.138	100.417	45.254	1.00200.63	N
ATOM	4412	CA	ASP	569	27.130	99.689	44.548	1.00200.63	C
ATOM	4413	CB	ASP	569	25.709	100.196	44.850	1.00200.63	C
ATOM	4414	CG	ASP	569	24.707	99.160	44.361	1.00200.63	C
ATOM	4415	OD1	ASP	569	24.849	97.970	44.750	1.00200.63	O
ATOM	4416	OD2	ASP	569	23.793	99.544	43.583	1.00200.63	O
ATOM	4417	C	ASP	569	27.391	99.996	43.115	1.00200.63	C
ATOM	4418	O	ASP	569	26.692	100.802	42.505	1.00200.63	O
ATOM	4419	N	ASP	570	28.339	99.275	42.505	1.00148.87	N
ATOM	4420	CA	ASP	570	28.747	99.586	41.165	1.00148.87	C
ATOM	4421	CB	ASP	570	27.615	99.550	40.123	1.00148.87	C
ATOM	4422	CG	ASP	570	28.207	99.484	38.714	1.00148.87	C
ATOM	4423	OD1	ASP	570	29.401	99.845	38.536	1.00148.87	O
ATOM	4424	OD2	ASP	570	27.461	99.058	37.792	1.00148.87	O
ATOM	4425	C	ASP	570	29.398	100.933	41.047	1.00148.87	C
ATOM	4426	O	ASP	570	28.931	101.779	40.291	1.00148.87	O
ATOM	4427	N	GLY	571	30.503	101.167	41.789	1.00 77.32	N
ATOM	4428	CA	GLY	571	31.271	102.371	41.627	1.00 77.32	C
ATOM	4429	C	GLY	571	30.550	103.611	42.096	1.00 77.32	C
ATOM	4430	O	GLY	571	30.314	104.507	41.290	1.00 77.32	O
ATOM	4431	N	VAL	572	30.129	103.699	43.382	1.00118.21	N
ATOM	4432	CA	VAL	572	29.542	104.934	43.864	1.00118.21	C
ATOM	4433	CB	VAL	572	28.056	104.992	43.645	1.00118.21	C

ATOM	4434	CG1	VAL	572	27.485	106.174	44.428	1.00118.21	C
ATOM	4435	CG2	VAL	572	27.778	105.109	42.142	1.00118.21	C
ATOM	4436	C	VAL	572	29.749	105.037	45.354	1.00118.21	C
ATOM	4437	O	VAL	572	29.125	104.278	46.089	1.00118.21	O
ATOM	4438	N	ILE	573	30.555	106.015	45.856	1.00157.64	N
ATOM	4439	CA	ILE	573	30.795	106.106	47.284	1.00157.64	C
ATOM	4440	CB	ILE	573	32.233	106.328	47.657	1.00157.64	C
ATOM	4441	CG1	ILE	573	32.359	106.415	49.188	1.00157.64	C
ATOM	4442	CG2	ILE	573	32.764	107.557	46.901	1.00157.64	C
ATOM	4443	CD1	ILE	573	31.920	105.147	49.915	1.00157.64	C
ATOM	4444	C	ILE	573	29.983	107.208	47.915	1.00157.64	C
ATOM	4445	O	ILE	573	30.298	108.385	47.760	1.00157.64	O
ATOM	4446	N	VAL	574	28.814	106.872	48.509	1.00141.77	N
ATOM	4447	CA	VAL	574	28.021	107.858	49.202	1.00141.77	C
ATOM	4448	CB	VAL	574	26.572	107.717	48.836	1.00141.77	C
ATOM	4449	CG1	VAL	574	26.446	108.039	47.336	1.00141.77	C
ATOM	4450	CG2	VAL	574	26.100	106.291	49.173	1.00141.77	C
ATOM	4451	C	VAL	574	28.123	107.985	50.709	1.00141.77	C
ATOM	4452	O	VAL	574	28.683	108.948	51.234	1.00141.77	O
ATOM	4453	N	GLU	575	27.652	106.939	51.438	1.00107.55	N
ATOM	4454	CA	GLU	575	27.382	107.030	52.857	1.00107.55	C
ATOM	4455	CB	GLU	575	26.064	106.329	53.226	1.00107.55	C
ATOM	4456	CG	GLU	575	24.839	106.962	52.562	1.00107.55	C
ATOM	4457	CD	GLU	575	23.704	105.947	52.606	1.00107.55	C
ATOM	4458	OE1	GLU	575	23.982	104.766	52.943	1.00107.55	O
ATOM	4459	OE2	GLU	575	22.546	106.336	52.298	1.00107.55	O
ATOM	4460	C	GLU	575	28.456	106.362	53.646	1.00107.55	C
ATOM	4461	O	GLU	575	28.581	105.139	53.616	1.00107.55	O
ATOM	4462	N	LYS	576	29.217	107.163	54.422	1.00129.30	N
ATOM	4463	CA	LYS	576	30.286	106.643	55.225	1.00129.30	C
ATOM	4464	CB	LYS	576	31.603	107.431	55.079	1.00129.30	C
ATOM	4465	CG	LYS	576	32.815	106.741	55.711	1.00129.30	C
ATOM	4466	CD	LYS	576	34.135	107.504	55.559	1.00129.30	C
ATOM	4467	CE	LYS	576	34.296	108.231	54.224	1.00129.30	C
ATOM	4468	NZ	LYS	576	33.778	109.612	54.343	1.00129.30	N
ATOM	4469	C	LYS	576	29.860	106.789	56.647	1.00129.30	C
ATOM	4470	O	LYS	576	29.136	107.724	56.989	1.00129.30	O
ATOM	4471	N	GLY	577	30.272	105.842	57.515	1.00 59.96	N
ATOM	4472	CA	GLY	577	29.931	106.010	58.891	1.00 59.96	C
ATOM	4473	C	GLY	577	29.487	104.714	59.486	1.00 59.96	C
ATOM	4474	O	GLY	577	29.522	103.658	58.856	1.00 59.96	O
ATOM	4475	N	ASN	578	29.019	104.812	60.744	1.00 87.10	N
ATOM	4476	CA	ASN	578	28.623	103.701	61.554	1.00 87.10	C
ATOM	4477	CB	ASN	578	28.434	104.087	63.036	1.00 87.10	C
ATOM	4478	CG	ASN	578	28.272	102.815	63.855	1.00 87.10	C
ATOM	4479	OD1	ASN	578	29.146	101.949	63.859	1.00 87.10	O
ATOM	4480	ND2	ASN	578	27.114	102.685	64.556	1.00 87.10	N
ATOM	4481	C	ASN	578	27.326	103.126	61.060	1.00 87.10	C
ATOM	4482	O	ASN	578	26.566	103.759	60.331	1.00 87.10	O
ATOM	4483	N	HIS	579	27.045	101.883	61.498	1.00120.52	N
ATOM	4484	CA	HIS	579	25.929	101.078	61.076	1.00120.52	C
ATOM	4485	ND1	HIS	579	24.292	98.180	60.638	1.00120.52	N
ATOM	4486	CG	HIS	579	24.602	98.974	61.718	1.00120.52	C
ATOM	4487	CB	HIS	579	25.871	99.761	61.878	1.00120.52	C
ATOM	4488	NE2	HIS	579	22.578	98.033	62.049	1.00120.52	N
ATOM	4489	CD2	HIS	579	23.545	98.872	62.570	1.00120.52	C
ATOM	4490	CE1	HIS	579	23.070	97.641	60.889	1.00120.52	C
ATOM	4491	C	HIS	579	24.613	101.745	61.268	1.00120.52	C
ATOM	4492	O	HIS	579	23.882	101.943	60.297	1.00120.52	O
ATOM	4493	N	ASP	580	24.305	102.160	62.508	1.00125.94	N
ATOM	4494	CA	ASP	580	23.014	102.706	62.800	1.00125.94	C
ATOM	4495	CB	ASP	580	22.852	103.136	64.270	1.00125.94	C
ATOM	4496	CG	ASP	580	23.815	104.278	64.569	1.00125.94	C
ATOM	4497	OD1	ASP	580	24.983	104.217	64.103	1.00125.94	O
ATOM	4498	OD2	ASP	580	23.387	105.236	65.267	1.00125.94	O
ATOM	4499	C	ASP	580	22.860	103.914	61.956	1.00125.94	C
ATOM	4500	O	ASP	580	21.746	104.326	61.643	1.00125.94	O
ATOM	4501	N	GLU	581	23.996	104.539	61.617	1.00 66.94	N
ATOM	4502	CA	GLU	581	23.988	105.729	60.827	1.00 66.94	C
ATOM	4503	CB	GLU	581	25.411	106.279	60.671	1.00 66.94	C
ATOM	4504	CG	GLU	581	26.064	106.597	62.016	1.00 66.94	C
ATOM	4505	CD	GLU	581	27.463	107.125	61.743	1.00 66.94	C
ATOM	4506	OE1	GLU	581	27.740	107.509	60.575	1.00 66.94	O
ATOM	4507	OE2	GLU	581	28.275	107.149	62.705	1.00 66.94	O

ATOM	4508	C	GLU	581	23.468	105.423	59.450	1.00	66.94	C
ATOM	4509	O	GLU	581	22.605	106.131	58.937	1.00	66.94	O
ATOM	4510	N	LEU	582	23.988	104.362	58.804	1.00	130.57	N
ATOM	4511	CA	LEU	582	23.581	104.020	57.465	1.00	130.57	C
ATOM	4512	CB	LEU	582	24.504	102.991	56.784	1.00	130.57	C
ATOM	4513	CG	LEU	582	25.883	103.555	56.383	1.00	130.57	C
ATOM	4514	CD1	LEU	582	26.689	104.011	57.606	1.00	130.57	C
ATOM	4515	CD2	LEU	582	26.657	102.565	55.497	1.00	130.57	C
ATOM	4516	C	LEU	582	22.179	103.482	57.418	1.00	130.57	C
ATOM	4517	O	LEU	582	21.481	103.657	56.419	1.00	130.57	O
ATOM	4518	N	MET	583	21.776	102.703	58.440	1.00	86.96	N
ATOM	4519	CA	MET	583	20.427	102.206	58.532	1.00	86.96	C
ATOM	4520	CB	MET	583	20.255	101.233	59.714	1.00	86.96	C
ATOM	4521	CG	MET	583	21.045	99.927	59.593	1.00	86.96	C
ATOM	4522	SD	MET	583	20.265	98.651	58.560	1.00	86.96	S
ATOM	4523	CE	MET	583	19.198	98.035	59.893	1.00	86.96	C
ATOM	4524	C	MET	583	19.521	103.367	58.818	1.00	86.96	C
ATOM	4525	O	MET	583	18.448	103.497	58.232	1.00	86.96	O
ATOM	4526	N	LYS	584	19.953	104.262	59.733	1.00	155.82	N
ATOM	4527	CA	LYS	584	19.135	105.373	60.127	1.00	155.82	C
ATOM	4528	CB	LYS	584	19.697	106.206	61.297	1.00	155.82	C
ATOM	4529	CG	LYS	584	21.020	106.919	61.026	1.00	155.82	C
ATOM	4530	CD	LYS	584	21.364	107.994	62.060	1.00	155.82	C
ATOM	4531	CE	LYS	584	21.379	107.486	63.504	1.00	155.82	C
ATOM	4532	NZ	LYS	584	19.992	107.282	63.983	1.00	155.82	N
ATOM	4533	C	LYS	584	18.948	106.240	58.930	1.00	155.82	C
ATOM	4534	O	LYS	584	17.923	106.906	58.779	1.00	155.82	O
ATOM	4535	N	GLU	585	19.974	106.257	58.061	1.00	117.64	N
ATOM	4536	CA	GLU	585	19.933	106.989	56.833	1.00	117.64	C
ATOM	4537	CB	GLU	585	21.234	106.890	56.022	1.00	117.64	C
ATOM	4538	CG	GLU	585	22.381	107.706	56.606	1.00	117.64	C
ATOM	4539	CD	GLU	585	22.068	109.172	56.342	1.00	117.64	C
ATOM	4540	OE1	GLU	585	21.276	109.443	55.400	1.00	117.64	O
ATOM	4541	OE2	GLU	585	22.614	110.039	57.075	1.00	117.64	O
ATOM	4542	C	GLU	585	18.868	106.387	55.982	1.00	117.64	C
ATOM	4543	O	GLU	585	18.225	107.102	55.216	1.00	117.64	O
ATOM	4544	N	LYS	586	18.686	105.051	56.100	1.00	160.07	N
ATOM	4545	CA	LYS	586	17.774	104.266	55.311	1.00	160.07	C
ATOM	4546	CB	LYS	586	16.270	104.512	55.552	1.00	160.07	C
ATOM	4547	CG	LYS	586	15.774	105.907	55.185	1.00	160.07	C
ATOM	4548	CD	LYS	586	14.279	105.957	54.884	1.00	160.07	C
ATOM	4549	CE	LYS	586	13.964	105.294	53.541	1.00	160.07	C
ATOM	4550	NZ	LYS	586	12.534	105.444	53.193	1.00	160.07	N
ATOM	4551	C	LYS	586	18.111	104.562	53.898	1.00	160.07	C
ATOM	4552	O	LYS	586	17.248	104.676	53.029	1.00	160.07	O
ATOM	4553	N	GLY	587	19.427	104.673	53.653	1.00	44.96	N
ATOM	4554	CA	GLY	587	19.924	104.994	52.362	1.00	44.96	C
ATOM	4555	C	GLY	587	20.320	103.724	51.695	1.00	44.96	C
ATOM	4556	O	GLY	587	19.580	102.740	51.677	1.00	44.96	O
ATOM	4557	N	ILE	588	21.522	103.741	51.099	1.00	131.69	N
ATOM	4558	CA	ILE	588	21.983	102.615	50.361	1.00	131.69	C
ATOM	4559	CB	ILE	588	23.329	102.880	49.750	1.00	131.69	C
ATOM	4560	CG1	ILE	588	23.273	104.085	48.794	1.00	131.69	C
ATOM	4561	CG2	ILE	588	23.798	101.585	49.068	1.00	131.69	C
ATOM	4562	CD1	ILE	588	22.355	103.871	47.592	1.00	131.69	C
ATOM	4563	C	ILE	588	22.142	101.438	51.269	1.00	131.69	C
ATOM	4564	O	ILE	588	21.578	100.373	51.011	1.00	131.69	O
ATOM	4565	N	TYR	589	22.847	101.633	52.403	1.00	142.75	N
ATOM	4566	CA	TYR	589	23.164	100.526	53.258	1.00	142.75	C
ATOM	4567	CB	TYR	589	23.923	100.978	54.519	1.00	142.75	C
ATOM	4568	CG	TYR	589	24.049	99.814	55.437	1.00	142.75	C
ATOM	4569	CD1	TYR	589	24.875	98.757	55.136	1.00	142.75	C
ATOM	4570	CD2	TYR	589	23.348	99.799	56.619	1.00	142.75	C
ATOM	4571	CE1	TYR	589	24.980	97.690	55.999	1.00	142.75	C
ATOM	4572	CE2	TYR	589	23.449	98.738	57.485	1.00	142.75	C
ATOM	4573	CZ	TYR	589	24.264	97.680	57.173	1.00	142.75	C
ATOM	4574	OH	TYR	589	24.361	96.593	58.064	1.00	142.75	O
ATOM	4575	C	TYR	589	21.905	99.827	53.664	1.00	142.75	C
ATOM	4576	O	TYR	589	21.724	98.635	53.415	1.00	142.75	O
ATOM	4577	N	PHE	590	20.949	100.592	54.193	1.00	111.97	N
ATOM	4578	CA	PHE	590	19.717	100.054	54.676	1.00	111.97	C
ATOM	4579	CB	PHE	590	18.793	101.155	55.225	1.00	111.97	C
ATOM	4580	CG	PHE	590	17.533	100.515	55.694	1.00	111.97	C
ATOM	4581	CD1	PHE	590	17.476	99.891	56.918	1.00	111.97	C

ATOM	4582	CD2	PHE	590	16.404	100.551	54.907	1.00111.97	C
ATOM	4583	CE1	PHE	590	16.311	99.302	57.350	1.00111.97	C
ATOM	4584	CE2	PHE	590	15.237	99.964	55.334	1.00111.97	C
ATOM	4585	CZ	PHE	590	15.190	99.338	56.557	1.00111.97	C
ATOM	4586	C	PHE	590	18.999	99.380	53.544	1.00111.97	C
ATOM	4587	O	PHE	590	18.561	98.233	53.656	1.00111.97	O
ATOM	4588	N	LYS	591	18.906	100.067	52.393	1.00107.55	N
ATOM	4589	CA	LYS	591	18.113	99.566	51.314	1.00107.55	C
ATOM	4590	CB	LYS	591	18.152	100.456	50.064	1.00107.55	C
ATOM	4591	CG	LYS	591	17.293	99.895	48.927	1.00107.55	C
ATOM	4592	CD	LYS	591	17.170	100.822	47.718	1.00107.55	C
ATOM	4593	CE	LYS	591	18.378	100.779	46.779	1.00107.55	C
ATOM	4594	NZ	LYS	591	18.166	101.703	45.643	1.00107.55	N
ATOM	4595	C	LYS	591	18.634	98.245	50.882	1.00107.55	C
ATOM	4596	O	LYS	591	17.907	97.256	50.783	1.00107.55	O
ATOM	4597	N	LEU	592	19.947	98.189	50.650	1.00133.71	N
ATOM	4598	CA	LEU	592	20.530	96.976	50.192	1.00133.71	C
ATOM	4599	CB	LEU	592	22.022	97.120	49.832	1.00133.71	C
ATOM	4600	CG	LEU	592	22.260	97.857	48.492	1.00133.71	C
ATOM	4601	CD1	LEU	592	21.718	97.038	47.308	1.00133.71	C
ATOM	4602	CD2	LEU	592	21.699	99.287	48.499	1.00133.71	C
ATOM	4603	C	LEU	592	20.347	95.933	51.237	1.00133.71	C
ATOM	4604	O	LEU	592	20.184	94.755	50.914	1.00133.71	O
ATOM	4605	N	VAL	593	20.339	96.354	52.518	1.00111.21	N
ATOM	4606	CA	VAL	593	20.241	95.422	53.604	1.00111.21	C
ATOM	4607	CB	VAL	593	20.075	96.066	54.957	1.00111.21	C
ATOM	4608	CG1	VAL	593	19.657	94.978	55.963	1.00111.21	C
ATOM	4609	CG2	VAL	593	21.397	96.740	55.355	1.00111.21	C
ATOM	4610	C	VAL	593	19.017	94.588	53.369	1.00111.21	C
ATOM	4611	O	VAL	593	19.076	93.359	53.344	1.00111.21	O
ATOM	4612	N	THR	594	17.883	95.252	53.104	1.00179.42	N
ATOM	4613	CA	THR	594	16.623	94.579	52.975	1.00179.42	C
ATOM	4614	CB	THR	594	15.476	95.542	52.882	1.00179.42	C
ATOM	4615	OG1	THR	594	15.580	96.316	51.696	1.00179.42	O
ATOM	4616	CG2	THR	594	15.510	96.463	54.114	1.00179.42	C
ATOM	4617	C	THR	594	16.582	93.716	51.741	1.00179.42	C
ATOM	4618	O	THR	594	16.104	92.583	51.747	1.00179.42	O
ATOM	4619	N	MET	595	17.151	94.245	50.656	1.00196.13	N
ATOM	4620	CA	MET	595	17.158	93.759	49.303	1.00196.13	C
ATOM	4621	CB	MET	595	17.724	94.849	48.361	1.00196.13	C
ATOM	4622	CG	MET	595	17.454	94.702	46.858	1.00196.13	C
ATOM	4623	SD	MET	595	18.578	93.609	45.938	1.00196.13	S
ATOM	4624	CE	MET	595	20.086	94.472	46.464	1.00196.13	C
ATOM	4625	C	MET	595	18.001	92.505	49.190	1.00196.13	C
ATOM	4626	O	MET	595	18.060	91.869	48.140	1.00196.13	O
ATOM	4627	N	GLN	596	18.619	92.080	50.301	1.00243.77	N
ATOM	4628	CA	GLN	596	19.821	91.293	50.391	1.00243.77	C
ATOM	4629	CB	GLN	596	20.104	90.779	51.812	1.00243.77	C
ATOM	4630	CG	GLN	596	21.494	90.147	51.907	1.00243.77	C
ATOM	4631	CD	GLN	596	21.870	89.990	53.372	1.00243.77	C
ATOM	4632	OE1	GLN	596	23.050	89.940	53.714	1.00243.77	O
ATOM	4633	NE2	GLN	596	20.844	89.924	54.261	1.00243.77	N
ATOM	4634	C	GLN	596	20.187	90.147	49.455	1.00243.77	C
ATOM	4635	O	GLN	596	21.325	90.167	48.996	1.00243.77	O
ATOM	4636	N	THR	597	19.398	89.124	49.082	1.00504.29	N
ATOM	4637	CA	THR	597	20.196	88.074	48.360	1.00504.29	C
ATOM	4638	CB	THR	597	20.666	86.999	49.296	1.00504.29	C
ATOM	4639	OG1	THR	597	19.543	86.361	49.883	1.00504.29	O
ATOM	4640	CG2	THR	597	21.554	87.612	50.392	1.00504.29	C
ATOM	4641	C	THR	597	19.499	87.261	47.107	1.00504.29	C
ATOM	4642	O	THR	597	18.492	87.929	46.849	1.00504.29	O
ATOM	4643	N	LEU	598	20.014	86.024	46.335	1.00402.30	N
ATOM	4644	CA	LEU	598	19.512	84.947	45.212	1.00402.30	C
ATOM	4645	CB	LEU	598	18.743	85.666	44.073	1.00402.30	C
ATOM	4646	CG	LEU	598	18.132	84.783	42.949	1.00402.30	C
ATOM	4647	CD1	LEU	598	19.138	84.367	41.858	1.00402.30	C
ATOM	4648	CD2	LEU	598	17.358	83.595	43.545	1.00402.30	C
ATOM	4649	C	LEU	598	20.335	83.670	44.434	1.00402.30	C
ATOM	4650	O	LEU	598	21.211	83.938	43.606	1.00402.30	O
ATOM	4651	N	ASP	599	20.008	82.252	44.487	1.00223.11	N
ATOM	4652	CA	ASP	599	20.659	81.019	43.771	1.00223.11	C
ATOM	4653	CB	ASP	599	21.768	80.372	44.621	1.00223.11	C
ATOM	4654	CG	ASP	599	22.959	81.323	44.611	1.00223.11	C
ATOM	4655	OD1	ASP	599	23.218	81.926	43.535	1.00223.11	O

ATOM	4656	OD2	ASP	599	23.621	81.465	45.674	1.00223.11	
ATOM	4657	C	ASP	599	19.732	79.822	43.232	1.00223.11	
ATOM	4658	O	ASP	599	18.546	79.819	43.542	1.00223.11	
ATOM	4659	N	GLU	600	20.224	78.743	42.442	1.00388.46	
ATOM	4660	CA	GLU	600	19.353	77.719	41.733	1.00388.46	
ATOM	4661	CB	GLU	600	18.715	78.389	40.509	1.00388.46	
ATOM	4662	CG	GLU	600	19.733	79.248	39.746	1.00388.46	
ATOM	4663	CD	GLU	600	19.764	80.629	40.393	1.00388.46	
ATOM	4664	OE1	GLU	600	18.719	81.321	40.278	1.00388.46	
ATOM	4665	OE2	GLU	600	20.799	81.012	41.005	1.00388.46	
ATOM	4666	C	GLU	600	19.908	76.344	41.250	1.00388.46	
ATOM	4667	O	GLU	600	20.918	75.838	41.724	1.00388.46	
ATOM	4668	N	SER	601	19.148	75.642	40.332	1.00221.43	
ATOM	4669	CA	SER	601	19.418	74.350	39.660	1.00221.43	
ATOM	4670	CB	SER	601	20.882	73.888	39.754	1.00221.43	
ATOM	4671	OG	SER	601	21.731	74.804	39.076	1.00221.43	
ATOM	4672	C	SER	601	18.566	73.310	40.318	1.00221.43	
ATOM	4673	O	SER	601	18.167	73.485	41.468	1.00221.43	
ATOM	4674	N	ILE	602	18.242	72.197	39.613	1.00191.65	
ATOM	4675	CA	ILE	602	17.396	71.243	40.288	1.00191.65	
ATOM	4676	CB	ILE	602	15.950	71.524	40.007	1.00191.65	
ATOM	4677	CG1	ILE	602	15.592	72.932	40.503	1.00191.65	
ATOM	4678	CG2	ILE	602	15.090	70.423	40.635	1.00191.65	
ATOM	4679	CD1	ILE	602	14.235	73.422	40.004	1.00191.65	
ATOM	4680	C	ILE	602	17.676	69.801	39.928	1.00191.65	
ATOM	4681	O	ILE	602	17.677	69.398	38.764	1.00191.65	
ATOM	4682	N	PRO	603	17.908	69.016	40.955	1.00 83.58	
ATOM	4683	CA	PRO	603	18.113	67.591	40.793	1.00 83.58	
ATOM	4684	CD	PRO	603	18.669	69.540	42.079	1.00 83.58	
ATOM	4685	CB	PRO	603	18.773	67.114	42.083	1.00 83.58	
ATOM	4686	CG	PRO	603	19.507	68.362	42.601	1.00 83.58	
ATOM	4687	C	PRO	603	16.905	66.769	40.414	1.00 83.58	
ATOM	4688	O	PRO	603	17.093	65.730	39.780	1.00 83.58	
ATOM	4689	N	PRO	604	15.702	67.144	40.754	1.00 95.33	
ATOM	4690	CA	PRO	604	14.592	66.289	40.407	1.00 95.33	
ATOM	4691	CD	PRO	604	15.482	67.781	42.043	1.00 95.33	
ATOM	4692	CB	PRO	604	13.403	66.815	41.201	1.00 95.33	
ATOM	4693	CG	PRO	604	14.065	67.364	42.480	1.00 95.33	
ATOM	4694	C	PRO	604	14.379	66.155	38.936	1.00 95.33	
ATOM	4695	O	PRO	604	14.567	67.124	38.204	1.00 95.33	
ATOM	4696	N	VAL	605	13.949	64.955	38.499	1.00164.51	
ATOM	4697	CA	VAL	605	13.792	64.646	37.105	1.00164.51	
ATOM	4698	CB	VAL	605	14.555	63.409	36.710	1.00164.51	
ATOM	4699	CG1	VAL	605	13.894	62.186	37.370	1.00164.51	
ATOM	4700	CG2	VAL	605	14.678	63.344	35.176	1.00164.51	



ATOM	4730	CZ3	TRP	608	10.993	57.848	28.888	1.00152.24	C
ATOM	4731	CH2	TRP	608	11.823	56.757	29.049	1.00152.24	C
ATOM	4732	C	TRP	608	6.830	60.352	32.083	1.00152.24	C
ATOM	4733	O	TRP	608	5.763	60.319	31.473	1.00152.24	O
ATOM	4734	N	ARG	609	7.030	61.183	33.123	1.00 97.69	N
ATOM	4735	CA	ARG	609	5.984	61.996	33.662	1.00 97.69	C
ATOM	4736	CB	ARG	609	6.393	62.644	34.988	1.00 97.69	C
ATOM	4737	CG	ARG	609	5.368	63.609	35.572	1.00 97.69	C
ATOM	4738	CD	ARG	609	5.846	64.224	36.887	1.00 97.69	C
ATOM	4739	NE	ARG	609	4.850	65.249	37.294	1.00 97.69	N
ATOM	4740	CZ	ARG	609	4.707	65.563	38.614	1.00 97.69	C
ATOM	4741	NH1	ARG	609	5.458	64.917	39.553	1.00 97.69	N
ATOM	4742	NH2	ARG	609	3.808	66.517	38.991	1.00 97.69	N
ATOM	4743	C	ARG	609	5.632	63.059	32.687	1.00 97.69	C
ATOM	4744	O	ARG	609	4.461	63.319	32.429	1.00 97.69	O
ATOM	4745	N	ILE	610	6.660	63.677	32.092	1.00147.34	N
ATOM	4746	CA	ILE	610	6.480	64.716	31.136	1.00147.34	C
ATOM	4747	CB	ILE	610	7.763	65.334	30.643	1.00147.34	C
ATOM	4748	CG1	ILE	610	8.646	64.313	29.907	1.00147.34	C
ATOM	4749	CG2	ILE	610	8.459	65.984	31.851	1.00147.34	C
ATOM	4750	CD1	ILE	610	9.201	63.213	30.809	1.00147.34	C
ATOM	4751	C	ILE	610	5.765	64.121	29.981	1.00147.34	C
ATOM	4752	O	ILE	610	5.246	64.867	29.163	1.00147.34	O
ATOM	4753	N	MET	611	5.893	62.793	29.771	1.00 68.83	N
ATOM	4754	CA	MET	611	5.121	62.131	28.752	1.00 68.83	C
ATOM	4755	CB	MET	611	5.531	60.663	28.542	1.00 68.83	C
ATOM	4756	CG	MET	611	4.789	59.987	27.386	1.00 68.83	C
ATOM	4757	SD	MET	611	5.215	58.239	27.124	1.00 68.83	S
ATOM	4758	CE	MET	611	4.278	57.643	28.561	1.00 68.83	C
ATOM	4759	C	MET	611	3.680	62.125	29.175	1.00 68.83	C
ATOM	4760	O	MET	611	2.781	62.427	28.391	1.00 68.83	O
ATOM	4761	N	LYS	612	3.425	61.793	30.457	1.00133.07	N
ATOM	4762	CA	LYS	612	2.068	61.694	30.920	1.00133.07	C
ATOM	4763	CB	LYS	612	1.982	61.329	32.415	1.00133.07	C
ATOM	4764	CG	LYS	612	2.703	60.039	32.822	1.00133.07	C
ATOM	4765	CD	LYS	612	2.193	58.772	32.134	1.00133.07	C
ATOM	4766	CE	LYS	612	2.731	57.481	32.761	1.00133.07	C
ATOM	4767	NZ	LYS	612	4.211	57.494	32.784	1.00133.07	N
ATOM	4768	C	LYS	612	1.473	63.055	30.802	1.00133.07	C
ATOM	4769	O	LYS	612	0.436	63.265	30.174	1.00133.07	O
ATOM	4770	N	LEU	613	2.187	64.030	31.382	1.00 70.78	N
ATOM	4771	CA	LEU	613	1.804	65.402	31.405	1.00 70.78	C
ATOM	4772	CB	LEU	613	2.753	66.291	32.231	1.00 70.78	C
ATOM	4773	CG	LEU	613	2.720	65.989	33.742	1.00 70.78	C
ATOM	4774	CD1	LEU	613	3.613	66.964	34.527	1.00 70.78	C
ATOM	4775	CD2	LEU	613	1.278	65.948	34.272	1.00 70.78	C
ATOM	4776	C	LEU	613	1.836	65.872	29.999	1.00 70.78	C
ATOM	4777	O	LEU	613	1.110	66.796	29.645	1.00 70.78	O
ATOM	4778	N	ASN	614	2.684	65.228	29.170	1.00118.83	N
ATOM	4779	CA	ASN	614	2.904	65.642	27.811	1.00118.83	C
ATOM	4780	CB	ASN	614	3.662	64.592	26.970	1.00118.83	C
ATOM	4781	CG	ASN	614	4.428	65.264	25.842	1.00118.83	C
ATOM	4782	OD1	ASN	614	4.420	66.487	25.712	1.00118.83	O
ATOM	4783	ND2	ASN	614	5.126	64.439	25.014	1.00118.83	N
ATOM	4784	C	ASN	614	1.555	65.711	27.193	1.00118.83	C
ATOM	4785	O	ASN	614	1.102	66.770	26.771	1.00118.83	O
ATOM	4786	N	LEU	615	0.826	64.594	27.276	1.00111.55	N
ATOM	4787	CA	LEU	615	-0.481	64.457	26.711	1.00111.55	C
ATOM	4788	CB	LEU	615	-1.050	63.049	27.007	1.00111.55	C
ATOM	4789	CG	LEU	615	-2.426	62.676	26.408	1.00111.55	C
ATOM	4790	CD1	LEU	615	-2.774	61.220	26.757	1.00111.55	C
ATOM	4791	CD2	LEU	615	-3.555	63.622	26.842	1.00111.55	C
ATOM	4792	C	LEU	615	-1.345	65.492	27.362	1.00111.55	C
ATOM	4793	O	LEU	615	-2.254	66.028	26.734	1.00111.55	O
ATOM	4794	N	THR	616	-1.101	65.802	28.649	1.00 49.94	N
ATOM	4795	CA	THR	616	-1.913	66.802	29.287	1.00 49.94	C
ATOM	4796	CB	THR	616	-1.474	67.092	30.694	1.00 49.94	C
ATOM	4797	OG1	THR	616	-1.529	65.912	31.482	1.00 49.94	O
ATOM	4798	CG2	THR	616	-2.400	68.167	31.285	1.00 49.94	C
ATOM	4799	C	THR	616	-1.741	68.065	28.500	1.00 49.94	C
ATOM	4800	O	THR	616	-2.696	68.764	28.172	1.00 49.94	O
ATOM	4801	N	GLU	617	-0.481	68.343	28.145	1.00166.09	N
ATOM	4802	CA	GLU	617	-0.014	69.444	27.359	1.00166.09	C
ATOM	4803	CB	GLU	617	1.517	69.580	27.358	1.00166.09	C

ATOM	4804	CG	GLU	617	2.095	70.298	28.582	1.00166.09	C
ATOM	4805	CD	GLU	617	2.079	69.354	29.772	1.00166.09	C
ATOM	4806	OE1	GLU	617	0.998	69.214	30.404	1.00166.09	O
ATOM	4807	OE2	GLU	617	3.150	68.757	30.064	1.00166.09	O
ATOM	4808	C	GLU	617	-0.455	69.233	25.950	1.00166.09	C
ATOM	4809	O	GLU	617	0.093	69.848	25.043	1.00166.09	O
ATOM	4810	N	TRP	618	-1.312	68.226	25.711	1.00141.91	N
ATOM	4811	CA	TRP	618	-1.660	67.856	24.371	1.00141.91	C
ATOM	4812	CB	TRP	618	-0.978	66.499	24.121	1.00141.91	C
ATOM	4813	CG	TRP	618	-1.121	65.800	22.799	1.00141.91	C
ATOM	4814	CD2	TRP	618	-1.972	64.665	22.580	1.00141.91	C
ATOM	4815	CD1	TRP	618	-0.448	66.013	21.635	1.00141.91	C
ATOM	4816	NE1	TRP	618	-0.828	65.079	20.699	1.00141.91	N
ATOM	4817	CE2	TRP	618	-1.764	64.242	21.269	1.00141.91	C
ATOM	4818	CE3	TRP	618	-2.844	64.020	23.409	1.00141.91	C
ATOM	4819	CZ2	TRP	618	-2.431	63.162	20.762	1.00141.91	C
ATOM	4820	CZ3	TRP	618	-3.523	62.938	22.892	1.00141.91	C
ATOM	4821	CH2	TRP	618	-3.320	62.517	21.594	1.00141.91	C
ATOM	4822	C	TRP	618	-3.155	67.702	24.187	1.00141.91	C
ATOM	4823	O	TRP	618	-3.810	67.021	24.976	1.00141.91	O
ATOM	4824	N	PRO	619	-3.739	68.403	23.229	1.00128.97	N
ATOM	4825	CA	PRO	619	-5.113	68.202	22.818	1.00128.97	C
ATOM	4826	CD	PRO	619	-3.183	69.639	22.710	1.00128.97	C
ATOM	4827	CB	PRO	619	-5.478	69.413	21.958	1.00128.97	C
ATOM	4828	CG	PRO	619	-4.119	70.012	21.547	1.00128.97	C
ATOM	4829	C	PRO	619	-5.324	66.882	22.128	1.00128.97	C
ATOM	4830	O	PRO	619	-5.966	66.003	22.701	1.00128.97	O
ATOM	4831	N	TYR	620	-4.830	66.752	20.868	1.00147.99	N
ATOM	4832	CA	TYR	620	-4.762	65.494	20.164	1.00147.99	C
ATOM	4833	CB	TYR	620	-6.070	64.679	20.098	1.00147.99	C
ATOM	4834	CG	TYR	620	-7.068	65.301	19.194	1.00147.99	C
ATOM	4835	CD1	TYR	620	-6.959	65.135	17.834	1.00147.99	C
ATOM	4836	CD2	TYR	620	-8.124	66.017	19.706	1.00147.99	C
ATOM	4837	CE1	TYR	620	-7.886	65.693	16.989	1.00147.99	C
ATOM	4838	CE2	TYR	620	-9.055	66.577	18.864	1.00147.99	C
ATOM	4839	CZ	TYR	620	-8.935	66.415	17.504	1.00147.99	C
ATOM	4840	OH	TYR	620	-9.890	66.987	16.637	1.00147.99	O
ATOM	4841	C	TYR	620	-4.198	65.719	18.781	1.00147.99	C
ATOM	4842	O	TYR	620	-4.575	66.656	18.078	1.00147.99	O
ATOM	4843	N	PHE	621	-3.134	64.959	18.462	1.00261.74	N
ATOM	4844	CA	PHE	621	-2.361	64.894	17.255	1.00261.74	C
ATOM	4845	CB	PHE	621	-0.908	65.346	17.450	1.00261.74	C
ATOM	4846	CG	PHE	621	-1.044	66.803	17.756	1.00261.74	C
ATOM	4847	CD1	PHE	621	-1.441	67.676	16.776	1.00261.74	C
ATOM	4848	CD2	PHE	621	-0.842	67.305	19.019	1.00261.74	C
ATOM	4849	CE1	PHE	621	-1.593	69.019	17.018	1.00261.74	C
ATOM	4850	CE2	PHE	621	-0.989	68.649	19.277	1.00261.74	C
ATOM	4851	CZ	PHE	621	-1.361	69.513	18.277	1.00261.74	C
ATOM	4852	C	PHE	621	-2.422	63.673	16.400	1.00261.74	C
ATOM	4853	O	PHE	621	-1.526	63.550	15.571	1.00261.74	O
ATOM	4854	N	VAL	622	-3.314	62.691	16.638	1.00127.19	N
ATOM	4855	CA	VAL	622	-3.250	61.398	15.995	1.00127.19	C
ATOM	4856	CB	VAL	622	-4.506	60.597	16.180	1.00127.19	C
ATOM	4857	CG1	VAL	622	-5.671	61.352	15.518	1.00127.19	C
ATOM	4858	CG2	VAL	622	-4.278	59.189	15.604	1.00127.19	C
ATOM	4859	C	VAL	622	-3.030	61.549	14.521	1.00127.19	C
ATOM	4860	O	VAL	622	-2.363	60.725	13.898	1.00127.19	O
ATOM	4861	N	VAL	623	-3.563	62.620	13.922	1.00123.05	N
ATOM	4862	CA	VAL	623	-3.351	62.844	12.525	1.00123.05	C
ATOM	4863	CB	VAL	623	-3.894	64.177	12.117	1.00123.05	C
ATOM	4864	CG1	VAL	623	-3.387	65.227	13.123	1.00123.05	C
ATOM	4865	CG2	VAL	623	-3.439	64.459	10.676	1.00123.05	C
ATOM	4866	C	VAL	623	-1.875	62.853	12.235	1.00123.05	C
ATOM	4867	O	VAL	623	-1.416	62.152	11.334	1.00123.05	O
ATOM	4868	N	GLY	624	-1.072	63.614	13.002	1.00 53.20	N
ATOM	4869	CA	GLY	624	0.327	63.685	12.702	1.00 53.20	C
ATOM	4870	C	GLY	624	0.920	62.316	12.789	1.00 53.20	C
ATOM	4871	O	GLY	624	1.534	61.853	11.832	1.00 53.20	O
ATOM	4872	N	VAL	625	0.684	61.591	13.899	1.00111.26	N
ATOM	4873	CA	VAL	625	1.292	60.297	14.037	1.00111.26	C
ATOM	4874	CB	VAL	625	0.958	59.588	15.319	1.00111.26	C
ATOM	4875	CG1	VAL	625	1.474	60.436	16.493	1.00111.26	C
ATOM	4876	CG2	VAL	625	-0.548	59.293	15.365	1.00111.26	C
ATOM	4877	C	VAL	625	0.804	59.454	12.904	1.00111.26	C

ATOM	4878	O	VAL	625	1.502	58.550	12.450	1.00111.26	O
ATOM	4879	N	PHE	626	-0.419	59.738	12.418	1.00109.24	N
ATOM	4880	CA	PHE	626	-0.988	58.963	11.354	1.00109.24	C
ATOM	4881	CB	PHE	626	-2.386	59.468	10.953	1.00109.24	C
ATOM	4882	CG	PHE	626	-2.922	58.571	9.889	1.00109.24	C
ATOM	4883	CD1	PHE	626	-2.632	58.797	8.562	1.00109.24	C
ATOM	4884	CD2	PHE	626	-3.718	57.499	10.221	1.00109.24	C
ATOM	4885	CE1	PHE	626	-3.127	57.968	7.582	1.00109.24	C
ATOM	4886	CE2	PHE	626	-4.216	56.667	9.246	1.00109.24	C
ATOM	4887	CZ	PHE	626	-3.921	56.900	7.924	1.00109.24	C
ATOM	4888	C	PHE	626	-0.107	59.038	10.139	1.00109.24	C
ATOM	4889	O	PHE	626	0.347	58.013	9.633	1.00109.24	O
ATOM	4890	N	CYS	627	0.213	60.256	9.667	1.00 70.70	N
ATOM	4891	CA	CYS	627	1.019	60.382	8.487	1.00 70.70	C
ATOM	4892	CB	CYS	627	1.144	61.834	7.984	1.00 70.70	C
ATOM	4893	SG	CYS	627	1.817	62.989	9.215	1.00 70.70	S
ATOM	4894	C	CYS	627	2.373	59.835	8.798	1.00 70.70	C
ATOM	4895	O	CYS	627	3.078	59.377	7.899	1.00 70.70	O
ATOM	4896	N	ALA	628	2.765	59.860	10.089	1.00 55.83	N
ATOM	4897	CA	ALA	628	4.068	59.379	10.455	1.00 55.83	C
ATOM	4898	CB	ALA	628	4.293	59.374	11.977	1.00 55.83	C
ATOM	4899	C	ALA	628	4.144	57.975	9.980	1.00 55.83	C
ATOM	4900	O	ALA	628	5.108	57.578	9.328	1.00 55.83	O
ATOM	4901	N	ILE	629	3.071	57.210	10.212	1.00118.02	N
ATOM	4902	CA	ILE	629	3.089	55.843	9.811	1.00118.02	C
ATOM	4903	CB	ILE	629	1.798	55.158	10.133	1.00118.02	C
ATOM	4904	CG1	ILE	629	1.409	55.447	11.594	1.00118.02	C
ATOM	4905	CG2	ILE	629	1.959	53.663	9.810	1.00118.02	C
ATOM	4906	CD1	ILE	629	2.505	55.129	12.607	1.00118.02	C
ATOM	4907	C	ILE	629	3.245	55.807	8.316	1.00118.02	C
ATOM	4908	O	ILE	629	4.062	55.054	7.789	1.00118.02	O
ATOM	4909	N	ILE	630	2.488	56.654	7.584	1.00108.14	N
ATOM	4910	CA	ILE	630	2.507	56.574	6.147	1.00108.14	C
ATOM	4911	CB	ILE	630	1.457	57.419	5.461	1.00108.14	C
ATOM	4912	CG1	ILE	630	1.702	58.933	5.574	1.00108.14	C
ATOM	4913	CG2	ILE	630	0.103	56.986	6.045	1.00108.14	C
ATOM	4914	CD1	ILE	630	2.737	59.469	4.582	1.00108.14	C
ATOM	4915	C	ILE	630	3.858	56.921	5.610	1.00108.14	C
ATOM	4916	O	ILE	630	4.346	56.248	4.701	1.00108.14	O
ATOM	4917	N	ASN	631	4.521	57.961	6.159	1.00140.16	N
ATOM	4918	CA	ASN	631	5.774	58.306	5.560	1.00140.16	C
ATOM	4919	CB	ASN	631	6.396	59.662	5.977	1.00140.16	C
ATOM	4920	CG	ASN	631	6.923	59.703	7.395	1.00140.16	C
ATOM	4921	OD1	ASN	631	7.016	58.687	8.078	1.00140.16	O
ATOM	4922	ND2	ASN	631	7.302	60.928	7.848	1.00140.16	N
ATOM	4923	C	ASN	631	6.709	57.163	5.731	1.00140.16	C
ATOM	4924	O	ASN	631	7.549	56.901	4.867	1.00140.16	O
ATOM	4925	N	GLY	632	6.557	56.421	6.841	1.00 59.35	N
ATOM	4926	CA	GLY	632	7.424	55.311	7.009	1.00 59.35	C
ATOM	4927	C	GLY	632	7.215	54.370	5.868	1.00 59.35	C
ATOM	4928	O	GLY	632	8.169	53.975	5.207	1.00 59.35	O
ATOM	4929	N	GLY	633	5.952	54.047	5.548	1.00 49.22	N
ATOM	4930	CA	GLY	633	5.672	53.104	4.499	1.00 49.22	C
ATOM	4931	C	GLY	633	6.234	53.634	3.222	1.00 49.22	C
ATOM	4932	O	GLY	633	6.709	52.884	2.369	1.00 49.22	O
ATOM	4933	N	LEU	634	6.215	54.965	3.073	1.00 87.39	N
ATOM	4934	CA	LEU	634	6.632	55.585	1.855	1.00 87.39	C
ATOM	4935	CB	LEU	634	6.605	57.117	1.997	1.00 87.39	C
ATOM	4936	CG	LEU	634	6.993	57.901	0.734	1.00 87.39	C
ATOM	4937	CD1	LEU	634	6.019	57.618	-0.422	1.00 87.39	C
ATOM	4938	CD2	LEU	634	7.111	59.401	1.053	1.00 87.39	C
ATOM	4939	C	LEU	634	8.040	55.140	1.560	1.00 87.39	C
ATOM	4940	O	LEU	634	8.377	54.866	0.406	1.00 87.39	O
ATOM	4941	N	GLN	635	8.898	55.051	2.600	1.00104.80	N
ATOM	4942	CA	GLN	635	10.274	54.671	2.409	1.00104.80	C
ATOM	4943	CB	GLN	635	11.102	54.821	3.703	1.00104.80	C
ATOM	4944	CG	GLN	635	12.607	54.608	3.527	1.00104.80	C
ATOM	4945	CD	GLN	635	13.224	55.943	3.140	1.00104.80	C
ATOM	4946	OE1	GLN	635	13.326	56.855	3.960	1.00104.80	O
ATOM	4947	NE2	GLN	635	13.646	56.064	1.853	1.00104.80	N
ATOM	4948	C	GLN	635	10.392	53.257	1.896	1.00104.80	C
ATOM	4949	O	GLN	635	10.990	53.069	0.835	1.00104.80	O
ATOM	4950	N	PRO	636	9.823	52.242	2.512	1.00101.59	N
ATOM	4951	CA	PRO	636	9.999	50.953	1.911	1.00101.59	C

ATOM	4952	CD	PRO	636	9.823	52.108	3.959	1.00101.59	C
ATOM	4953	CB	PRO	636	9.465	49.948	2.917	1.00101.59	C
ATOM	4954	CG	PRO	636	9.815	50.602	4.262	1.00101.59	C
ATOM	4955	C	PRO	636	9.369	50.875	0.558	1.00101.59	C
ATOM	4956	O	PRO	636	9.799	50.069	-0.266	1.00101.59	O
ATOM	4957	N	ALA	637	8.363	51.720	0.298	1.00 47.21	N
ATOM	4958	CA	ALA	637	7.695	51.681	-0.970	1.00 47.21	C
ATOM	4959	CB	ALA	637	6.577	52.731	-1.080	1.00 47.21	C
ATOM	4960	C	ALA	637	8.703	51.965	-2.039	1.00 47.21	C
ATOM	4961	O	ALA	637	8.719	51.323	-3.088	1.00 47.21	O
ATOM	4962	N	PHE	638	9.605	52.924	-1.778	1.00 80.92	N
ATOM	4963	CA	PHE	638	10.589	53.280	-2.753	1.00 80.92	C
ATOM	4964	CB	PHE	638	11.512	54.427	-2.311	1.00 80.92	C
ATOM	4965	CG	PHE	638	12.573	54.517	-3.352	1.00 80.92	C
ATOM	4966	CD1	PHE	638	12.351	55.171	-4.543	1.00 80.92	C
ATOM	4967	CD2	PHE	638	13.797	53.932	-3.127	1.00 80.92	C
ATOM	4968	CE1	PHE	638	13.343	55.239	-5.493	1.00 80.92	C
ATOM	4969	CE2	PHE	638	14.791	53.997	-4.073	1.00 80.92	C
ATOM	4970	CZ	PHE	638	14.564	54.652	-5.260	1.00 80.92	C
ATOM	4971	C	PHE	638	11.444	52.106	-3.019	1.00 80.92	C
ATOM	4972	O	PHE	638	11.854	51.867	-4.156	1.00 80.92	O
ATOM	4973	N	ALA	639	11.722	51.335	-1.960	1.00 58.67	N
ATOM	4974	CA	ALA	639	12.588	50.221	-2.135	1.00 58.67	C
ATOM	4975	CB	ALA	639	12.728	49.425	-0.841	1.00 58.67	C
ATOM	4976	C	ALA	639	12.006	49.324	-3.208	1.00 58.67	C
ATOM	4977	O	ALA	639	12.734	48.866	-4.088	1.00 58.67	O
ATOM	4978	N	ILE	640	10.679	49.068	-3.182	1.00113.49	N
ATOM	4979	CA	ILE	640	10.049	48.210	-4.164	1.00113.49	C
ATOM	4980	CB	ILE	640	8.684	47.717	-3.760	1.00113.49	C
ATOM	4981	CG1	ILE	640	8.267	46.533	-4.649	1.00113.49	C
ATOM	4982	CG2	ILE	640	7.694	48.889	-3.812	1.00113.49	C
ATOM	4983	CD1	ILE	640	7.041	45.783	-4.129	1.00113.49	C
ATOM	4984	C	ILE	640	9.918	48.814	-5.535	1.00113.49	C
ATOM	4985	O	ILE	640	10.189	48.155	-6.539	1.00113.49	O
ATOM	4986	N	ILE	641	9.498	50.089	-5.632	1.00130.20	N
ATOM	4987	CA	ILE	641	9.246	50.648	-6.931	1.00130.20	C
ATOM	4988	CB	ILE	641	8.674	52.041	-6.855	1.00130.20	C
ATOM	4989	CG1	ILE	641	8.431	52.631	-8.258	1.00130.20	C
ATOM	4990	CG2	ILE	641	9.544	52.869	-5.902	1.00130.20	C
ATOM	4991	CD1	ILE	641	7.376	51.885	-9.069	1.00130.20	C
ATOM	4992	C	ILE	641	10.511	50.602	-7.733	1.00130.20	C
ATOM	4993	O	ILE	641	10.485	50.296	-8.926	1.00130.20	O
ATOM	4994	N	PHE	642	11.654	50.910	-7.094	1.00112.28	N
ATOM	4995	CA	PHE	642	12.935	50.855	-7.744	1.00112.28	C
ATOM	4996	CB	PHE	642	14.046	51.390	-6.822	1.00112.28	C
ATOM	4997	CG	PHE	642	15.376	51.015	-7.374	1.00112.28	C
ATOM	4998	CD1	PHE	642	16.018	51.811	-8.294	1.00112.28	C
ATOM	4999	CD2	PHE	642	15.982	49.850	-6.962	1.00112.28	C
ATOM	5000	CE1	PHE	642	17.248	51.445	-8.789	1.00112.28	C
ATOM	5001	CE2	PHE	642	17.211	49.481	-7.453	1.00112.28	C
ATOM	5002	CZ	PHE	642	17.847	50.282	-8.370	1.00112.28	C
ATOM	5003	C	PHE	642	13.276	49.454	-8.121	1.00112.28	C
ATOM	5004	O	PHE	642	13.603	49.173	-9.275	1.00112.28	O
ATOM	5005	N	SER	643	13.146	48.527	-7.158	1.00 58.82	N
ATOM	5006	CA	SER	643	13.522	47.170	-7.401	1.00 58.82	C
ATOM	5007	CB	SER	643	13.252	46.263	-6.187	1.00 58.82	C
ATOM	5008	OG	SER	643	11.874	46.294	-5.845	1.00 58.82	O
ATOM	5009	C	SER	643	12.705	46.686	-8.553	1.00 58.82	C
ATOM	5010	O	SER	643	13.151	45.846	-9.332	1.00 58.82	O
ATOM	5011	N	LYS	644	11.476	47.213	-8.688	1.00 79.51	N
ATOM	5012	CA	LYS	644	10.624	46.796	-9.763	1.00 79.51	C
ATOM	5013	CB	LYS	644	9.211	47.397	-9.663	1.00 79.51	C
ATOM	5014	CG	LYS	644	8.271	46.966	-10.794	1.00 79.51	C
ATOM	5015	CD	LYS	644	6.801	47.308	-10.532	1.00 79.51	C
ATOM	5016	CE	LYS	644	5.857	46.934	-11.678	1.00 79.51	C
ATOM	5017	NZ	LYS	644	5.397	45.537	-11.521	1.00 79.51	N
ATOM	5018	C	LYS	644	11.195	47.219	-11.080	1.00 79.51	C
ATOM	5019	O	LYS	644	11.300	46.403	-11.992	1.00 79.51	O
ATOM	5020	N	ILE	645	11.625	48.493	-11.206	1.00 70.82	N
ATOM	5021	CA	ILE	645	12.037	48.981	-12.493	1.00 70.82	C
ATOM	5022	CB	ILE	645	12.519	50.396	-12.459	1.00 70.82	C
ATOM	5023	CG1	ILE	645	11.440	51.317	-11.891	1.00 70.82	C
ATOM	5024	CG2	ILE	645	12.961	50.779	-13.881	1.00 70.82	C
ATOM	5025	CD1	ILE	645	11.941	52.737	-11.668	1.00 70.82	C

ATOM	5026	C	ILE	645	13.197	48.194	-12.971	1.00	70.82	C
ATOM	5027	O	ILE	645	13.160	47.634	-14.065	1.00	70.82	O
ATOM	5028	N	ILE	646	14.235	48.075	-12.129	1.00	133.75	N
ATOM	5029	CA	ILE	646	15.406	47.390	-12.566	1.00	133.75	C
ATOM	5030	CB	ILE	646	16.499	47.340	-11.532	1.00	133.75	C
ATOM	5031	CG1	ILE	646	17.772	46.726	-12.138	1.00	133.75	C
ATOM	5032	CG2	ILE	646	15.982	46.619	-10.276	1.00	133.75	C
ATOM	5033	CD1	ILE	646	19.010	46.900	-11.260	1.00	133.75	C
ATOM	5034	C	ILE	646	14.995	46.005	-12.897	1.00	133.75	C
ATOM	5035	O	ILE	646	15.321	45.526	-13.973	1.00	133.75	O
ATOM	5036	N	GLY	647	14.186	45.354	-12.045	1.00	51.86	N
ATOM	5037	CA	GLY	647	13.849	43.993	-12.340	1.00	51.86	C
ATOM	5038	C	GLY	647	13.131	43.905	-13.654	1.00	51.86	C
ATOM	5039	O	GLY	647	13.512	43.146	-14.542	1.00	51.86	O
ATOM	5040	N	VAL	648	12.108	44.747	-13.837	1.00	163.86	N
ATOM	5041	CA	VAL	648	11.261	44.724	-14.996	1.00	163.86	C
ATOM	5042	CB	VAL	648	10.075	45.650	-14.873	1.00	163.86	C
ATOM	5043	CG1	VAL	648	10.564	47.104	-14.783	1.00	163.86	C
ATOM	5044	CG2	VAL	648	9.123	45.391	-16.052	1.00	163.86	C
ATOM	5045	C	VAL	648	12.053	45.110	-16.211	1.00	163.86	C
ATOM	5046	O	VAL	648	11.534	45.067	-17.323	1.00	163.86	O
ATOM	5047	N	PHE	649	13.212	45.757	-16.015	1.00	165.68	N
ATOM	5048	CA	PHE	649	14.082	46.109	-17.104	1.00	165.68	C
ATOM	5049	CB	PHE	649	14.723	47.490	-16.882	1.00	165.68	C
ATOM	5050	CG	PHE	649	15.263	47.966	-18.185	1.00	165.68	C
ATOM	5051	CD1	PHE	649	14.461	48.702	-19.028	1.00	165.68	C
ATOM	5052	CD2	PHE	649	16.553	47.682	-18.571	1.00	165.68	C
ATOM	5053	CE1	PHE	649	14.938	49.151	-20.236	1.00	165.68	C
ATOM	5054	CE2	PHE	649	17.035	48.128	-19.778	1.00	165.68	C
ATOM	5055	CZ	PHE	649	16.227	48.863	-20.613	1.00	165.68	C
ATOM	5056	C	PHE	649	15.182	45.115	-17.357	1.00	165.68	C
ATOM	5057	O	PHE	649	15.747	45.064	-18.449	1.00	165.68	O
ATOM	5058	N	THR	650	15.618	44.426	-16.286	1.00	87.39	N
ATOM	5059	CA	THR	650	16.702	43.484	-16.276	1.00	87.39	C
ATOM	5060	CB	THR	650	17.166	43.108	-14.898	1.00	87.39	C
ATOM	5061	OG1	THR	650	16.087	42.582	-14.141	1.00	87.39	O
ATOM	5062	CG2	THR	650	17.777	44.341	-14.211	1.00	87.39	C
ATOM	5063	C	THR	650	16.292	42.227	-16.958	1.00	87.39	C
ATOM	5064	O	THR	650	17.134	41.521	-17.515	1.00	87.39	O
ATOM	5065	N	ARG	651	15.002	41.857	-16.837	1.00	187.75	N
ATOM	5066	CA	ARG	651	14.575	40.697	-17.564	1.00	187.75	C
ATOM	5067	CB	ARG	651	14.800	39.383	-16.809	1.00	187.75	C
ATOM	5068	CG	ARG	651	16.258	39.098	-16.445	1.00	187.75	C
ATOM	5069	CD	ARG	651	16.740	39.875	-15.220	1.00	187.75	C
ATOM	5070	NE	ARG	651	15.689	39.733	-14.174	1.00	187.75	N
ATOM	5071	CZ	ARG	651	15.617	38.597	-13.421	1.00	187.75	C
ATOM	5072	NH1	ARG	651	16.451	37.549	-13.683	1.00	187.75	N
ATOM	5073	NH2	ARG	651	14.701	38.506	-12.413	1.00	187.75	N
ATOM	5074	C	ARG	651	13.104	40.816	-17.834	1.00	187.75	C
ATOM	5075	O	ARG	651	12.308	40.887	-16.897	1.00	187.75	O
ATOM	5076	N	ILE	652	12.702	40.873	-19.128	1.00	117.43	N
ATOM	5077	CA	ILE	652	11.300	40.960	-19.446	1.00	117.43	C
ATOM	5078	CB	ILE	652	10.635	42.166	-18.839	1.00	117.43	C
ATOM	5079	CG1	ILE	652	9.104	42.006	-18.826	1.00	117.43	C
ATOM	5080	CG2	ILE	652	11.138	43.413	-19.585	1.00	117.43	C
ATOM	5081	CD1	ILE	652	8.386	43.038	-17.959	1.00	117.43	C
ATOM	5082	C	ILE	652	11.135	41.035	-20.947	1.00	117.43	C
ATOM	5083	O	ILE	652	12.101	40.887	-21.694	1.00	117.43	O
ATOM	5084	N	ASP	653	9.881	41.250	-21.422	1.00	88.04	N
ATOM	5085	CA	ASP	653	9.572	41.362	-22.826	1.00	88.04	C
ATOM	5086	CB	ASP	653	8.069	41.244	-23.145	1.00	88.04	C
ATOM	5087	CG	ASP	653	7.901	40.956	-24.635	1.00	88.04	C
ATOM	5088	OD1	ASP	653	8.936	40.786	-25.332	1.00	88.04	O
ATOM	5089	OD2	ASP	653	6.730	40.895	-25.095	1.00	88.04	O
ATOM	5090	C	ASP	653	10.049	42.686	-23.348	1.00	88.04	C
ATOM	5091	O	ASP	653	9.934	43.715	-22.685	1.00	88.04	O
ATOM	5092	N	ASP	654	10.577	42.683	-24.590	1.00	49.88	N
ATOM	5093	CA	ASP	654	11.160	43.853	-25.182	1.00	49.88	C
ATOM	5094	CB	ASP	654	11.857	43.572	-26.529	1.00	49.88	C
ATOM	5095	CG	ASP	654	13.149	42.817	-26.249	1.00	49.88	C
ATOM	5096	OD1	ASP	654	13.793	43.114	-25.207	1.00	49.88	O
ATOM	5097	OD2	ASP	654	13.516	41.940	-27.077	1.00	49.88	O
ATOM	5098	C	ASP	654	10.156	44.944	-25.390	1.00	49.88	C
ATOM	5099	O	ASP	654	10.441	46.091	-25.051	1.00	49.88	O

ATOM	5100	N	PRO	655	8.996	44.676	-25.918	1.00161.18	N
ATOM	5101	CA	PRO	655	8.099	45.780	-26.113	1.00161.18	C
ATOM	5102	CD	PRO	655	8.868	43.687	-26.977	1.00161.18	C
ATOM	5103	CB	PRO	655	7.084	45.325	-27.158	1.00161.18	C
ATOM	5104	CG	PRO	655	7.861	44.279	-27.976	1.00161.18	C
ATOM	5105	C	PRO	655	7.490	46.208	-24.821	1.00161.18	C
ATOM	5106	O	PRO	655	7.362	45.389	-23.913	1.00161.18	O
ATOM	5107	N	GLU	656	7.109	47.495	-24.737	1.00 81.20	N
ATOM	5108	CA	GLU	656	6.454	48.077	-23.605	1.00 81.20	C
ATOM	5109	CB	GLU	656	5.219	47.268	-23.192	1.00 81.20	C
ATOM	5110	CG	GLU	656	4.152	47.280	-24.288	1.00 81.20	C
ATOM	5111	CD	GLU	656	2.969	46.460	-23.807	1.00 81.20	C
ATOM	5112	OE1	GLU	656	2.472	46.746	-22.686	1.00 81.20	O
ATOM	5113	OE2	GLU	656	2.548	45.535	-24.553	1.00 81.20	O
ATOM	5114	C	GLU	656	7.395	48.193	-22.446	1.00 81.20	C
ATOM	5115	O	GLU	656	6.998	48.597	-21.353	1.00 81.20	O
ATOM	5116	N	THR	657	8.691	47.919	-22.676	1.00 62.89	N
ATOM	5117	CA	THR	657	9.668	48.114	-21.649	1.00 62.89	C
ATOM	5118	CB	THR	657	11.051	47.693	-22.051	1.00 62.89	C
ATOM	5119	OG1	THR	657	11.448	48.384	-23.226	1.00 62.89	O
ATOM	5120	CG2	THR	657	11.079	46.175	-22.278	1.00 62.89	C
ATOM	5121	C	THR	657	9.695	49.584	-21.424	1.00 62.89	C
ATOM	5122	O	THR	657	10.001	50.059	-20.333	1.00 62.89	O
ATOM	5123	N	LYS	658	9.418	50.343	-22.499	1.00 70.91	N
ATOM	5124	CA	LYS	658	9.372	51.771	-22.434	1.00 70.91	C
ATOM	5125	CB	LYS	658	9.063	52.398	-23.804	1.00 70.91	C
ATOM	5126	CG	LYS	658	8.857	53.913	-23.761	1.00 70.91	C
ATOM	5127	CD	LYS	658	8.902	54.576	-25.139	1.00 70.91	C
ATOM	5128	CE	LYS	658	8.378	56.013	-25.137	1.00 70.91	C
ATOM	5129	NZ	LYS	658	8.968	56.765	-24.007	1.00 70.91	N
ATOM	5130	C	LYS	658	8.274	52.174	-21.506	1.00 70.91	C
ATOM	5131	O	LYS	658	8.472	53.018	-20.637	1.00 70.91	O
ATOM	5132	N	ARG	659	7.081	51.576	-21.672	1.00 78.20	N
ATOM	5133	CA	ARG	659	5.957	51.919	-20.852	1.00 78.20	C
ATOM	5134	CB	ARG	659	4.647	51.279	-21.334	1.00 78.20	C
ATOM	5135	CG	ARG	659	3.416	51.851	-20.634	1.00 78.20	C
ATOM	5136	CD	ARG	659	2.108	51.226	-21.109	1.00 78.20	C
ATOM	5137	NE	ARG	659	0.997	52.040	-20.543	1.00 78.20	N
ATOM	5138	CZ	ARG	659	-0.242	51.963	-21.107	1.00 78.20	C
ATOM	5139	NH1	ARG	659	-0.449	51.129	-22.167	1.00 78.20	N
ATOM	5140	NH2	ARG	659	-1.272	52.711	-20.614	1.00 78.20	N
ATOM	5141	C	ARG	659	6.212	51.452	-19.460	1.00 78.20	C
ATOM	5142	O	ARG	659	5.886	52.140	-18.496	1.00 78.20	O
ATOM	5143	N	GLN	660	6.799	50.250	-19.315	1.00 47.73	N
ATOM	5144	CA	GLN	660	7.045	49.744	-18.001	1.00 47.73	C
ATOM	5145	CB	GLN	660	7.671	48.341	-18.030	1.00 47.73	C
ATOM	5146	CG	GLN	660	6.763	47.300	-18.691	1.00 47.73	C
ATOM	5147	CD	GLN	660	5.528	47.136	-17.818	1.00 47.73	C
ATOM	5148	OE1	GLN	660	5.606	47.216	-16.593	1.00 47.73	O
ATOM	5149	NE2	GLN	660	4.353	46.904	-18.463	1.00 47.73	N
ATOM	5150	C	GLN	660	8.014	50.676	-17.360	1.00 47.73	C
ATOM	5151	O	GLN	660	7.841	51.087	-16.214	1.00 47.73	O
ATOM	5152	N	ASN	661	9.060	51.059	-18.111	1.00102.05	N
ATOM	5153	CA	ASN	661	10.039	51.920	-17.536	1.00102.05	C
ATOM	5154	CB	ASN	661	11.191	52.202	-18.516	1.00102.05	C
ATOM	5155	CG	ASN	661	12.455	52.482	-17.714	1.00102.05	C
ATOM	5156	OD1	ASN	661	12.460	53.290	-16.788	1.00102.05	O
ATOM	5157	ND2	ASN	661	13.564	51.783	-18.080	1.00102.05	N
ATOM	5158	C	ASN	661	9.358	53.202	-17.187	1.00102.05	C
ATOM	5159	O	ASN	661	9.166	53.491	-16.011	1.00102.05	O
ATOM	5160	N	SER	662	8.805	53.896	-18.203	1.00 94.12	N
ATOM	5161	CA	SER	662	8.226	55.205	-18.059	1.00 94.12	C
ATOM	5162	CB	SER	662	7.473	55.653	-19.323	1.00 94.12	C
ATOM	5163	OG	SER	662	6.923	56.948	-19.134	1.00 94.12	O
ATOM	5164	C	SER	662	7.237	55.163	-16.941	1.00 94.12	C
ATOM	5165	O	SER	662	7.149	56.099	-16.149	1.00 94.12	O
ATOM	5166	N	ASN	663	6.481	54.058	-16.833	1.00 85.07	N
ATOM	5167	CA	ASN	663	5.515	53.943	-15.784	1.00 85.07	C
ATOM	5168	CB	ASN	663	4.747	52.611	-15.888	1.00 85.07	C
ATOM	5169	CG	ASN	663	3.819	52.443	-14.694	1.00 85.07	C
ATOM	5170	OD1	ASN	663	4.268	52.250	-13.565	1.00 85.07	O
ATOM	5171	ND2	ASN	663	2.484	52.498	-14.949	1.00 85.07	N
ATOM	5172	C	ASN	663	6.203	53.974	-14.457	1.00 85.07	C
ATOM	5173	O	ASN	663	6.044	54.918	-13.686	1.00 85.07	O

ATOM	5174	N	LEU	664	7.090	52.996	-14.208	1.00124.36	N
ATOM	5175	CA	LEU	664	7.713	52.870	-12.924	1.00124.36	C
ATOM	5176	CB	LEU	664	8.704	51.697	-12.887	1.00124.36	C
ATOM	5177	CG	LEU	664	8.062	50.297	-12.783	1.00124.36	C
ATOM	5178	CD1	LEU	664	7.547	50.036	-11.365	1.00124.36	C
ATOM	5179	CD2	LEU	664	6.960	50.075	-13.825	1.00124.36	C
ATOM	5180	C	LEU	664	8.453	54.135	-12.639	1.00124.36	C
ATOM	5181	O	LEU	664	8.497	54.595	-11.499	1.00124.36	O
ATOM	5182	N	PHE	665	9.051	54.738	-13.678	1.00128.66	N
ATOM	5183	CA	PHE	665	9.775	55.961	-13.510	1.00128.66	C
ATOM	5184	CB	PHE	665	10.328	56.401	-14.882	1.00128.66	C
ATOM	5185	CG	PHE	665	10.099	57.841	-15.180	1.00128.66	C
ATOM	5186	CD1	PHE	665	10.952	58.830	-14.753	1.00128.66	C
ATOM	5187	CD2	PHE	665	8.996	58.186	-15.927	1.00128.66	C
ATOM	5188	CE1	PHE	665	10.691	60.143	-15.074	1.00128.66	C
ATOM	5189	CE2	PHE	665	8.731	59.493	-16.252	1.00128.66	C
ATOM	5190	CZ	PHE	665	9.586	60.475	-15.822	1.00128.66	C
ATOM	5191	C	PHE	665	8.880	56.996	-12.893	1.00128.66	C
ATOM	5192	O	PHE	665	9.131	57.441	-11.775	1.00128.66	O
ATOM	5193	N	SER	666	7.753	57.334	-13.539	1.00 45.22	N
ATOM	5194	CA	SER	666	6.902	58.357	-12.998	1.00 45.22	C
ATOM	5195	CB	SER	666	5.678	58.668	-13.877	1.00 45.22	C
ATOM	5196	OG	SER	666	4.893	59.686	-13.272	1.00 45.22	O
ATOM	5197	C	SER	666	6.390	57.897	-11.671	1.00 45.22	C
ATOM	5198	O	SER	666	6.283	58.688	-10.736	1.00 45.22	O
ATOM	5199	N	LEU	667	6.101	56.588	-11.534	1.00169.86	N
ATOM	5200	CA	LEU	667	5.571	56.101	-10.292	1.00169.86	C
ATOM	5201	CB	LEU	667	5.310	54.585	-10.242	1.00169.86	C
ATOM	5202	CG	LEU	667	3.930	54.183	-10.781	1.00169.86	C
ATOM	5203	CD1	LEU	667	2.819	54.733	-9.870	1.00169.86	C
ATOM	5204	CD2	LEU	667	3.742	54.597	-12.244	1.00169.86	C
ATOM	5205	C	LEU	667	6.530	56.413	-9.205	1.00169.86	C
ATOM	5206	O	LEU	667	6.128	56.831	-8.121	1.00169.86	O
ATOM	5207	N	LEU	668	7.833	56.241	-9.471	1.00 92.19	N
ATOM	5208	CA	LEU	668	8.802	56.525	-8.458	1.00 92.19	C
ATOM	5209	CB	LEU	668	10.238	56.464	-8.998	1.00 92.19	C
ATOM	5210	CG	LEU	668	10.772	55.072	-9.350	1.00 92.19	C
ATOM	5211	CD1	LEU	668	12.117	55.191	-10.056	1.00 92.19	C
ATOM	5212	CD2	LEU	668	10.939	54.213	-8.099	1.00 92.19	C
ATOM	5213	C	LEU	668	8.628	57.957	-8.066	1.00 92.19	C
ATOM	5214	O	LEU	668	8.582	58.286	-6.882	1.00 92.19	O
ATOM	5215	N	PHE	669	8.541	58.853	-9.067	1.00 98.99	N
ATOM	5216	CA	PHE	669	8.458	60.251	-8.767	1.00 98.99	C
ATOM	5217	CB	PHE	669	8.578	61.139	-10.014	1.00 98.99	C
ATOM	5218	CG	PHE	669	8.201	62.514	-9.590	1.00 98.99	C
ATOM	5219	CD1	PHE	669	9.084	63.300	-8.889	1.00 98.99	C
ATOM	5220	CD2	PHE	669	6.948	63.006	-9.870	1.00 98.99	C
ATOM	5221	CE1	PHE	669	8.729	64.567	-8.493	1.00 98.99	C
ATOM	5222	CE2	PHE	669	6.589	64.273	-9.477	1.00 98.99	C
ATOM	5223	CZ	PHE	669	7.480	65.058	-8.788	1.00 98.99	C
ATOM	5224	C	PHE	669	7.190	60.623	-8.077	1.00 98.99	C
ATOM	5225	O	PHE	669	7.204	61.082	-6.939	1.00 98.99	O
ATOM	5226	N	LEU	670	6.049	60.333	-8.710	1.00138.33	N
ATOM	5227	CA	LEU	670	4.778	60.788	-8.237	1.00138.33	C
ATOM	5228	CB	LEU	670	3.664	60.194	-9.124	1.00138.33	C
ATOM	5229	CG	LEU	670	2.222	60.613	-8.797	1.00138.33	C
ATOM	5230	CD1	LEU	670	1.733	60.085	-7.439	1.00138.33	C
ATOM	5231	CD2	LEU	670	2.054	62.128	-8.961	1.00138.33	C
ATOM	5232	C	LEU	670	4.604	60.269	-6.853	1.00138.33	C
ATOM	5233	O	LEU	670	4.250	61.014	-5.938	1.00138.33	O
ATOM	5234	N	ALA	671	4.870	58.971	-6.656	1.00 77.47	N
ATOM	5235	CA	ALA	671	4.620	58.469	-5.344	1.00 77.47	C
ATOM	5236	CB	ALA	671	4.804	56.945	-5.253	1.00 77.47	C
ATOM	5237	C	ALA	671	5.536	59.097	-4.342	1.00 77.47	C
ATOM	5238	O	ALA	671	5.095	59.832	-3.464	1.00 77.47	O
ATOM	5239	N	LEU	672	6.856	58.928	-4.508	1.00107.56	N
ATOM	5240	CA	LEU	672	7.739	59.403	-3.486	1.00107.56	C
ATOM	5241	CB	LEU	672	9.200	59.084	-3.820	1.00107.56	C
ATOM	5242	CG	LEU	672	10.209	59.564	-2.769	1.00107.56	C
ATOM	5243	CD1	LEU	672	10.133	58.743	-1.476	1.00107.56	C
ATOM	5244	CD2	LEU	672	11.613	59.611	-3.372	1.00107.56	C
ATOM	5245	C	LEU	672	7.644	60.884	-3.361	1.00107.56	C
ATOM	5246	O	LEU	672	7.235	61.385	-2.316	1.00107.56	O
ATOM	5247	N	GLY	673	7.902	61.612	-4.467	1.00 55.55	N

ATOM	5248	CA	GLY	673	8.023	63.035	-4.386	1.00	55.55	C
ATOM	5249	C	GLY	673	6.775	63.627	-3.817	1.00	55.55	C
ATOM	5250	O	GLY	673	6.842	64.425	-2.883	1.00	55.55	O
ATOM	5251	N	ILE	674	5.599	63.254	-4.349	1.00	116.25	N
ATOM	5252	CA	ILE	674	4.412	63.888	-3.855	1.00	116.25	C
ATOM	5253	CB	ILE	674	3.193	63.581	-4.677	1.00	116.25	C
ATOM	5254	CG1	ILE	674	3.325	64.186	-6.085	1.00	116.25	C
ATOM	5255	CG2	ILE	674	1.966	64.093	-3.903	1.00	116.25	C
ATOM	5256	CD1	ILE	674	4.447	63.571	-6.918	1.00	116.25	C
ATOM	5257	C	ILE	674	4.092	63.478	-2.455	1.00	116.25	C
ATOM	5258	O	ILE	674	4.119	64.319	-1.561	1.00	116.25	O
ATOM	5259	N	ILE	675	3.941	62.158	-2.206	1.00	61.94	N
ATOM	5260	CA	ILE	675	3.397	61.670	-0.964	1.00	61.94	C
ATOM	5261	CB	ILE	675	3.455	60.174	-0.854	1.00	61.94	C
ATOM	5262	CG1	ILE	675	2.602	59.515	-1.950	1.00	61.94	C
ATOM	5263	CG2	ILE	675	3.046	59.784	0.576	1.00	61.94	C
ATOM	5264	CD1	ILE	675	2.835	58.010	-2.083	1.00	61.94	C
ATOM	5265	C	ILE	675	4.202	62.214	0.164	1.00	61.94	C
ATOM	5266	O	ILE	675	3.646	62.672	1.161	1.00	61.94	O
ATOM	5267	N	SER	676	5.537	62.195	0.024	1.00	77.35	N
ATOM	5268	CA	SER	676	6.378	62.656	1.088	1.00	77.35	C
ATOM	5269	CB	SER	676	7.867	62.361	0.856	1.00	77.35	C
ATOM	5270	OG	SER	676	8.611	62.746	2.003	1.00	77.35	O
ATOM	5271	C	SER	676	6.233	64.128	1.279	1.00	77.35	C
ATOM	5272	O	SER	676	6.045	64.574	2.410	1.00	77.35	O
ATOM	5273	N	PHE	677	6.248	64.900	0.169	1.00	76.04	N
ATOM	5274	CA	PHE	677	6.184	66.334	0.213	1.00	76.04	C
ATOM	5275	CB	PHE	677	6.000	66.920	-1.195	1.00	76.04	C
ATOM	5276	CG	PHE	677	5.939	68.400	-1.092	1.00	76.04	C
ATOM	5277	CD1	PHE	677	7.096	69.139	-1.070	1.00	76.04	C
ATOM	5278	CD2	PHE	677	4.728	69.046	-1.010	1.00	76.04	C
ATOM	5279	CE1	PHE	677	7.044	70.509	-0.977	1.00	76.04	C
ATOM	5280	CE2	PHE	677	4.670	70.416	-0.916	1.00	76.04	C
ATOM	5281	CZ	PHE	677	5.831	71.149	-0.901	1.00	76.04	C
ATOM	5282	C	PHE	677	4.972	66.629	1.016	1.00	76.04	C
ATOM	5283	O	PHE	677	4.984	67.489	1.898	1.00	76.04	O
ATOM	5284	N	ILE	678	3.898	65.874	0.741	1.00	122.40	N
ATOM	5285	CA	ILE	678	2.724	66.028	1.536	1.00	122.40	C
ATOM	5286	CB	ILE	678	1.541	65.241	1.055	1.00	122.40	C
ATOM	5287	CG1	ILE	678	0.934	65.871	-0.211	1.00	122.40	C
ATOM	5288	CG2	ILE	678	0.550	65.153	2.228	1.00	122.40	C
ATOM	5289	CD1	ILE	678	1.830	65.819	-1.444	1.00	122.40	C
ATOM	5290	C	ILE	678	2.988	65.596	2.943	1.00	122.40	C
ATOM	5291	O	ILE	678	2.807	66.411	3.843	1.00	122.40	O
ATOM	5292	N	THR	679	3.542	64.375	3.163	1.00	144.52	N
ATOM	5293	CA	THR	679	3.631	63.825	4.495	1.00	144.52	C
ATOM	5294	CB	THR	679	4.335	62.493	4.590	1.00	144.52	C
ATOM	5295	OG1	THR	679	4.116	61.930	5.876	1.00	144.52	O
ATOM	5296	CG2	THR	679	5.845	62.661	4.358	1.00	144.52	C
ATOM	5297	C	THR	679	4.331	64.788	5.405	1.00	144.52	C
ATOM	5298	O	THR	679	3.863	65.023	6.519	1.00	144.52	O
ATOM	5299	N	PHE	680	5.451	65.387	4.953	1.00	106.47	N
ATOM	5300	CA	PHE	680	6.162	66.320	5.780	1.00	106.47	C
ATOM	5301	CB	PHE	680	7.502	66.751	5.166	1.00	106.47	C
ATOM	5302	CG	PHE	680	8.449	65.620	5.392	1.00	106.47	C
ATOM	5303	CD1	PHE	680	8.364	64.464	4.650	1.00	106.47	C
ATOM	5304	CD2	PHE	680	9.431	65.719	6.350	1.00	106.47	C
ATOM	5305	CE1	PHE	680	9.240	63.425	4.863	1.00	106.47	C
ATOM	5306	CE2	PHE	680	10.311	64.684	6.568	1.00	106.47	C
ATOM	5307	CZ	PHE	680	10.216	63.533	5.824	1.00	106.47	C
ATOM	5308	C	PHE	680	5.313	67.515	6.032	1.00	106.47	C
ATOM	5309	O	PHE	680	5.029	67.811	7.187	1.00	106.47	O
ATOM	5310	N	PHE	681	4.777	68.134	4.960	1.00	80.15	N
ATOM	5311	CA	PHE	681	4.042	69.366	5.050	1.00	80.15	C
ATOM	5312	CB	PHE	681	3.361	69.707	3.711	1.00	80.15	C
ATOM	5313	CG	PHE	681	2.559	70.951	3.864	1.00	80.15	C
ATOM	5314	CD1	PHE	681	3.168	72.183	3.854	1.00	80.15	C
ATOM	5315	CD2	PHE	681	1.190	70.884	3.999	1.00	80.15	C
ATOM	5316	CE1	PHE	681	2.424	73.331	3.989	1.00	80.15	C
ATOM	5317	CE2	PHE	681	0.441	72.028	4.134	1.00	80.15	C
ATOM	5318	CZ	PHE	681	1.059	73.255	4.130	1.00	80.15	C
ATOM	5319	C	PHE	681	2.972	69.209	6.085	1.00	80.15	C
ATOM	5320	O	PHE	681	2.862	70.041	6.982	1.00	80.15	O
ATOM	5321	N	LEU	682	2.184	68.123	6.004	1.00	147.44	N



ATOM	5322	CA	LEU	682	1.114	67.866	6.931	1.00147.44	C
ATOM	5323	CB	LEU	682	0.359	66.580	6.523	1.00147.44	C
ATOM	5324	CG	LEU	682	-0.739	66.064	7.480	1.00147.44	C
ATOM	5325	CD1	LEU	682	-0.179	65.389	8.745	1.00147.44	C
ATOM	5326	CD2	LEU	682	-1.756	67.168	7.795	1.00147.44	C
ATOM	5327	C	LEU	682	1.628	67.662	8.327	1.00147.44	C
ATOM	5328	O	LEU	682	1.247	68.377	9.250	1.00147.44	O
ATOM	5329	N	GLN	683	2.557	66.705	8.491	1.00165.91	N
ATOM	5330	CA	GLN	683	3.085	66.255	9.754	1.00165.91	C
ATOM	5331	CB	GLN	683	4.154	65.209	9.423	1.00165.91	C
ATOM	5332	CG	GLN	683	4.905	64.541	10.560	1.00165.91	C
ATOM	5333	CD	GLN	683	5.852	63.600	9.827	1.00165.91	C
ATOM	5334	OE1	GLN	683	6.855	63.142	10.371	1.00165.91	O
ATOM	5335	NE2	GLN	683	5.527	63.318	8.536	1.00165.91	N
ATOM	5336	C	GLN	683	3.735	67.401	10.456	1.00165.91	C
ATOM	5337	O	GLN	683	3.495	67.649	11.637	1.00165.91	O
ATOM	5338	N	GLY	684	4.560	68.156	9.720	1.00 42.72	N
ATOM	5339	CA	GLY	684	5.271	69.268	10.265	1.00 42.72	C
ATOM	5340	C	GLY	684	4.260	70.272	10.701	1.00 42.72	C
ATOM	5341	O	GLY	684	4.474	70.997	11.669	1.00 42.72	O
ATOM	5342	N	PHE	685	3.152	70.378	9.948	1.00 69.97	N
ATOM	5343	CA	PHE	685	2.140	71.336	10.270	1.00 69.97	C
ATOM	5344	CB	PHE	685	1.006	71.341	9.232	1.00 69.97	C
ATOM	5345	CG	PHE	685	0.052	72.420	9.606	1.00 69.97	C
ATOM	5346	CD1	PHE	685	0.247	73.710	9.169	1.00 69.97	C
ATOM	5347	CD2	PHE	685	-1.037	72.143	10.397	1.00 69.97	C
ATOM	5348	CE1	PHE	685	-0.634	74.707	9.514	1.00 69.97	C
ATOM	5349	CE2	PHE	685	-1.922	73.136	10.746	1.00 69.97	C
ATOM	5350	CZ	PHE	685	-1.722	74.422	10.304	1.00 69.97	C
ATOM	5351	C	PHE	685	1.530	71.015	11.603	1.00 69.97	C
ATOM	5352	O	PHE	685	1.482	71.864	12.489	1.00 69.97	O
ATOM	5353	N	THR	686	1.052	69.767	11.769	1.00150.82	N
ATOM	5354	CA	THR	686	0.346	69.332	12.943	1.00150.82	C
ATOM	5355	CB	THR	686	-0.166	67.941	12.725	1.00150.82	C
ATOM	5356	OG1	THR	686	-0.898	67.893	11.513	1.00150.82	O
ATOM	5357	CG2	THR	686	-1.100	67.551	13.866	1.00150.82	C
ATOM	5358	C	THR	686	1.231	69.297	14.162	1.00150.82	C
ATOM	5359	O	THR	686	0.974	69.999	15.138	1.00150.82	O
ATOM	5360	N	PHE	687	2.328	68.504	14.121	1.00108.85	N
ATOM	5361	CA	PHE	687	3.143	68.329	15.295	1.00108.85	C
ATOM	5362	CB	PHE	687	4.111	67.118	15.303	1.00108.85	C
ATOM	5363	CG	PHE	687	5.312	67.290	14.439	1.00108.85	C
ATOM	5364	CD1	PHE	687	6.343	68.104	14.843	1.00108.85	C
ATOM	5365	CD2	PHE	687	5.439	66.598	13.257	1.00108.85	C
ATOM	5366	CE1	PHE	687	7.467	68.255	14.063	1.00108.85	C
ATOM	5367	CE2	PHE	687	6.561	66.745	12.474	1.00108.85	C
ATOM	5368	CZ	PHE	687	7.578	67.577	12.874	1.00108.85	C
ATOM	5369	C	PHE	687	3.888	69.585	15.598	1.00108.85	C
ATOM	5370	O	PHE	687	4.131	69.900	16.760	1.00108.85	O
ATOM	5371	N	GLY	688	4.299	70.333	14.560	1.00 40.22	N
ATOM	5372	CA	GLY	688	5.002	71.557	14.810	1.00 40.22	C
ATOM	5373	C	GLY	688	4.071	72.445	15.577	1.00 40.22	C
ATOM	5374	O	GLY	688	4.470	73.100	16.538	1.00 40.22	O
ATOM	5375	N	LYS	689	2.785	72.448	15.175	1.00129.67	N
ATOM	5376	CA	LYS	689	1.750	73.241	15.776	1.00129.67	C
ATOM	5377	CB	LYS	689	0.386	72.988	15.092	1.00129.67	C
ATOM	5378	CG	LYS	689	-0.859	73.547	15.793	1.00129.67	C
ATOM	5379	CD	LYS	689	-1.254	72.752	17.039	1.00129.67	C
ATOM	5380	CE	LYS	689	-2.605	73.127	17.643	1.00129.67	C
ATOM	5381	NZ	LYS	689	-2.997	72.103	18.638	1.00129.67	N
ATOM	5382	C	LYS	689	1.675	72.855	17.215	1.00129.67	C
ATOM	5383	O	LYS	689	1.383	73.693	18.065	1.00129.67	O
ATOM	5384	N	ALA	690	1.906	71.565	17.519	1.00 53.45	N
ATOM	5385	CA	ALA	690	1.894	71.105	18.877	1.00 53.45	C
ATOM	5386	CB	ALA	690	2.138	69.594	19.016	1.00 53.45	C
ATOM	5387	C	ALA	690	2.997	71.801	19.603	1.00 53.45	C
ATOM	5388	O	ALA	690	2.862	72.129	20.780	1.00 53.45	O
ATOM	5389	N	GLY	691	4.144	71.997	18.927	1.00 48.37	N
ATOM	5390	CA	GLY	691	5.252	72.679	19.531	1.00 48.37	C
ATOM	5391	C	GLY	691	4.860	74.103	19.775	1.00 48.37	C
ATOM	5392	O	GLY	691	5.197	74.672	20.812	1.00 48.37	O
ATOM	5393	N	GLU	692	4.152	74.729	18.810	1.00109.57	N
ATOM	5394	CA	GLU	692	3.797	76.108	18.984	1.00109.57	C
ATOM	5395	CB	GLU	692	2.811	76.617	17.917	1.00109.57	C

ATOM	5396	CG	GLU	692	3.322	76.612	16.484	1.00109.57	C
ATOM	5397	CD	GLU	692	2.150	76.922	15.565	1.00109.57	C
ATOM	5398	OE1	GLU	692	1.275	77.730	15.974	1.00109.57	O
ATOM	5399	OE2	GLU	692	2.110	76.346	14.445	1.00109.57	O
ATOM	5400	C	GLU	692	2.984	76.197	20.223	1.00109.57	C
ATOM	5401	O	GLU	692	3.438	76.706	21.243	1.00109.57	O
ATOM	5402	N	ILE	693	1.810	75.544	20.191	1.00177.19	N
ATOM	5403	CA	ILE	693	0.850	75.657	21.244	1.00177.19	C
ATOM	5404	CB	ILE	693	-0.326	74.749	21.038	1.00177.19	C
ATOM	5405	CG1	ILE	693	-1.263	74.861	22.242	1.00177.19	C
ATOM	5406	CG2	ILE	693	0.165	73.321	20.746	1.00177.19	C
ATOM	5407	CD1	ILE	693	-2.576	74.102	22.064	1.00177.19	C
ATOM	5408	C	ILE	693	1.466	75.264	22.534	1.00177.19	C
ATOM	5409	O	ILE	693	1.385	76.030	23.490	1.00177.19	O
ATOM	5410	N	LEU	694	2.166	74.116	22.572	1.00181.56	N
ATOM	5411	CA	LEU	694	2.712	73.617	23.793	1.00181.56	C
ATOM	5412	CB	LEU	694	3.568	72.356	23.583	1.00181.56	C
ATOM	5413	CG	LEU	694	4.208	71.845	24.884	1.00181.56	C
ATOM	5414	CD1	LEU	694	3.138	71.581	25.944	1.00181.56	C
ATOM	5415	CD2	LEU	694	5.089	70.612	24.643	1.00181.56	C
ATOM	5416	C	LEU	694	3.580	74.683	24.384	1.00181.56	C
ATOM	5417	O	LEU	694	3.469	74.974	25.568	1.00181.56	O
ATOM	5418	N	THR	695	4.438	75.330	23.581	1.00 73.31	N
ATOM	5419	CA	THR	695	5.294	76.363	24.094	1.00 73.31	C
ATOM	5420	CB	THR	695	6.271	76.847	23.063	1.00 73.31	C
ATOM	5421	OG1	THR	695	7.113	75.781	22.648	1.00 73.31	O
ATOM	5422	CG2	THR	695	7.105	77.995	23.654	1.00 73.31	C
ATOM	5423	C	THR	695	4.507	77.564	24.554	1.00 73.31	C
ATOM	5424	O	THR	695	4.801	78.121	25.610	1.00 73.31	O
ATOM	5425	N	LYS	696	3.521	78.029	23.756	1.00129.61	N
ATOM	5426	CA	LYS	696	2.761	79.214	24.070	1.00129.61	C
ATOM	5427	CB	LYS	696	1.814	79.632	22.933	1.00129.61	C
ATOM	5428	CG	LYS	696	2.520	80.011	21.631	1.00129.61	C
ATOM	5429	CD	LYS	696	1.555	80.128	20.448	1.00129.61	C
ATOM	5430	CE	LYS	696	0.800	78.830	20.146	1.00129.61	C
ATOM	5431	NZ	LYS	696	-0.243	79.074	19.125	1.00129.61	N
ATOM	5432	C	LYS	696	1.891	79.014	25.261	1.00129.61	C
ATOM	5433	O	LYS	696	2.000	79.733	26.251	1.00129.61	O
ATOM	5434	N	ARG	697	1.049	77.972	25.212	1.00197.69	N
ATOM	5435	CA	ARG	697	0.121	77.677	26.253	1.00197.69	C
ATOM	5436	CB	ARG	697	-0.629	76.355	26.005	1.00197.69	C
ATOM	5437	CG	ARG	697	0.317	75.155	25.887	1.00197.69	C
ATOM	5438	CD	ARG	697	-0.337	73.869	25.376	1.00197.69	C
ATOM	5439	NE	ARG	697	-1.201	73.325	26.460	1.00197.69	N
ATOM	5440	CZ	ARG	697	-1.998	72.246	26.206	1.00197.69	C
ATOM	5441	NH1	ARG	697	-2.007	71.685	24.962	1.00197.69	N
ATOM	5442	NH2	ARG	697	-2.780	71.723	27.194	1.00197.69	N
ATOM	5443	C	ARG	697	0.971	77.498	27.463	1.00197.69	C
ATOM	5444	O	ARG	697	0.516	77.746	28.575	1.00197.69	O
ATOM	5445	N	LEU	698	2.204	76.979	27.272	1.00209.37	N
ATOM	5446	CA	LEU	698	3.145	76.794	28.343	1.00209.37	C
ATOM	5447	CB	LEU	698	4.320	75.847	28.021	1.00209.37	C
ATOM	5448	CG	LEU	698	4.093	74.368	28.420	1.00209.37	C
ATOM	5449	CD1	LEU	698	4.221	74.212	29.943	1.00209.37	C
ATOM	5450	CD2	LEU	698	2.759	73.788	27.920	1.00209.37	C
ATOM	5451	C	LEU	698	3.705	78.062	28.922	1.00209.37	C
ATOM	5452	O	LEU	698	3.609	78.237	30.133	1.00209.37	O
ATOM	5453	N	ARG	699	4.254	79.004	28.115	1.00120.06	N
ATOM	5454	CA	ARG	699	4.829	80.187	28.706	1.00120.06	C
ATOM	5455	CB	ARG	699	5.398	81.225	27.725	1.00120.06	C
ATOM	5456	CG	ARG	699	6.762	80.890	27.118	1.00120.06	C
ATOM	5457	CD	ARG	699	7.456	82.153	26.604	1.00120.06	C
ATOM	5458	NE	ARG	699	8.574	81.771	25.700	1.00120.06	N
ATOM	5459	CZ	ARG	699	9.438	82.741	25.279	1.00120.06	C
ATOM	5460	NH1	ARG	699	9.362	83.994	25.816	1.00120.06	N
ATOM	5461	NH2	ARG	699	10.365	82.467	24.316	1.00120.06	N
ATOM	5462	C	ARG	699	3.732	80.868	29.442	1.00120.06	C
ATOM	5463	O	ARG	699	3.943	81.429	30.514	1.00120.06	O
ATOM	5464	N	TYR	700	2.523	80.828	28.861	1.00155.16	N
ATOM	5465	CA	TYR	700	1.368	81.408	29.466	1.00155.16	C
ATOM	5466	CB	TYR	700	0.146	81.310	28.536	1.00155.16	C
ATOM	5467	CG	TYR	700	-1.065	81.805	29.245	1.00155.16	C
ATOM	5468	CD1	TYR	700	-1.317	83.151	29.353	1.00155.16	C
ATOM	5469	CD2	TYR	700	-1.947	80.920	29.817	1.00155.16	C

ATOM	5470	CE1	TYR	700	-2.438	83.606	30.008	1.00155.16	C
ATOM	5471	CE2	TYR	700	-3.068	81.367	30.473	1.00155.16	C
ATOM	5472	CZ	TYR	700	-3.318	82.712	30.569	1.00155.16	C
ATOM	5473	OH	TYR	700	-4.471	83.168	31.243	1.00155.16	O
ATOM	5474	C	TYR	700	1.074	80.691	30.739	1.00155.16	C
ATOM	5475	O	TYR	700	0.999	81.323	31.788	1.00155.16	O
ATOM	5476	N	MET	701	0.995	79.347	30.710	1.00 81.90	N
ATOM	5477	CA	MET	701	0.618	78.646	31.899	1.00 81.90	C
ATOM	5478	CB	MET	701	0.537	77.117	31.758	1.00 81.90	C
ATOM	5479	CG	MET	701	-0.704	76.633	31.009	1.00 81.90	C
ATOM	5480	SD	MET	701	-1.066	74.866	31.240	1.00 81.90	S
ATOM	5481	CE	MET	701	-1.518	75.032	32.993	1.00 81.90	C
ATOM	5482	C	MET	701	1.613	78.941	32.974	1.00 81.90	C
ATOM	5483	O	MET	701	1.226	79.246	34.097	1.00 81.90	O
ATOM	5484	N	VAL	702	2.917	78.901	32.651	1.00 68.35	N
ATOM	5485	CA	VAL	702	3.930	79.134	33.638	1.00 68.35	C
ATOM	5486	CB	VAL	702	5.320	79.007	33.088	1.00 68.35	C
ATOM	5487	CG1	VAL	702	6.318	79.399	34.189	1.00 68.35	C
ATOM	5488	CG2	VAL	702	5.515	77.579	32.556	1.00 68.35	C
ATOM	5489	C	VAL	702	3.821	80.529	34.169	1.00 68.35	C
ATOM	5490	O	VAL	702	3.813	80.732	35.381	1.00 68.35	O
ATOM	5491	N	PHE	703	3.703	81.531	33.276	1.00155.51	N
ATOM	5492	CA	PHE	703	3.733	82.899	33.716	1.00155.51	C
ATOM	5493	CB	PHE	703	3.535	83.912	32.576	1.00155.51	C
ATOM	5494	CG	PHE	703	4.048	85.231	33.051	1.00155.51	C
ATOM	5495	CD1	PHE	703	3.474	85.886	34.117	1.00155.51	C
ATOM	5496	CD2	PHE	703	5.151	85.794	32.453	1.00155.51	C
ATOM	5497	CE1	PHE	703	3.967	87.094	34.552	1.00155.51	C
ATOM	5498	CE2	PHE	703	5.648	87.002	32.881	1.00155.51	C
ATOM	5499	CZ	PHE	703	5.054	87.658	33.930	1.00155.51	C
ATOM	5500	C	PHE	703	2.591	83.130	34.643	1.00155.51	C
ATOM	5501	O	PHE	703	2.761	83.647	35.745	1.00155.51	O
ATOM	5502	N	ARG	704	1.391	82.721	34.214	1.00195.92	N
ATOM	5503	CA	ARG	704	0.222	82.919	35.000	1.00195.92	C
ATOM	5504	CB	ARG	704	-1.045	82.373	34.331	1.00195.92	C
ATOM	5505	CG	ARG	704	-1.512	83.268	33.189	1.00195.92	C
ATOM	5506	CD	ARG	704	-2.326	84.464	33.682	1.00195.92	C
ATOM	5507	NE	ARG	704	-3.610	83.921	34.211	1.00195.92	N
ATOM	5508	CZ	ARG	704	-4.105	84.353	35.407	1.00195.92	C
ATOM	5509	NH1	ARG	704	-3.413	85.270	36.145	1.00195.92	N
ATOM	5510	NH2	ARG	704	-5.291	83.862	35.871	1.00195.92	N
ATOM	5511	C	ARG	704	0.430	82.181	36.265	1.00195.92	C
ATOM	5512	O	ARG	704	-0.037	82.628	37.306	1.00195.92	O
ATOM	5513	N	SER	705	1.141	81.038	36.214	1.00 68.63	N
ATOM	5514	CA	SER	705	1.351	80.276	37.409	1.00 68.63	C
ATOM	5515	CB	SER	705	2.263	79.053	37.206	1.00 68.63	C
ATOM	5516	OG	SER	705	1.624	78.098	36.372	1.00 68.63	O
ATOM	5517	C	SER	705	2.016	81.184	38.388	1.00 68.63	C
ATOM	5518	O	SER	705	1.696	81.162	39.573	1.00 68.63	O
ATOM	5519	N	MET	706	2.989	81.980	37.911	1.00 94.96	N
ATOM	5520	CA	MET	706	3.686	82.924	38.732	1.00 94.96	C
ATOM	5521	CB	MET	706	4.869	83.534	37.966	1.00 94.96	C
ATOM	5522	CG	MET	706	5.911	82.495	37.548	1.00 94.96	C
ATOM	5523	SD	MET	706	6.996	83.024	36.189	1.00 94.96	S
ATOM	5524	CE	MET	706	7.824	84.339	37.127	1.00 94.96	C
ATOM	5525	C	MET	706	2.815	84.073	39.170	1.00 94.96	C
ATOM	5526	O	MET	706	2.723	84.371	40.359	1.00 94.96	O
ATOM	5527	N	LEU	707	2.114	84.734	38.224	1.00181.70	N
ATOM	5528	CA	LEU	707	1.342	85.894	38.577	1.00181.70	C
ATOM	5529	CB	LEU	707	0.601	86.523	37.389	1.00181.70	C
ATOM	5530	CG	LEU	707	1.518	87.276	36.417	1.00181.70	C
ATOM	5531	CD1	LEU	707	0.706	87.874	35.261	1.00181.70	C
ATOM	5532	CD2	LEU	707	2.361	88.328	37.158	1.00181.70	C
ATOM	5533	C	LEU	707	0.301	85.479	39.551	1.00181.70	C
ATOM	5534	O	LEU	707	0.072	86.146	40.561	1.00181.70	O
ATOM	5535	N	ARG	708	-0.362	84.354	39.244	1.00 99.58	N
ATOM	5536	CA	ARG	708	-1.393	83.814	40.074	1.00 99.58	C
ATOM	5537	CB	ARG	708	-2.076	82.589	39.448	1.00 99.58	C
ATOM	5538	CG	ARG	708	-2.788	82.894	38.127	1.00 99.58	C
ATOM	5539	CD	ARG	708	-3.332	81.645	37.431	1.00 99.58	C
ATOM	5540	NE	ARG	708	-2.180	80.718	37.239	1.00 99.58	N
ATOM	5541	CZ	ARG	708	-2.217	79.750	36.277	1.00 99.58	C
ATOM	5542	NH1	ARG	708	-3.285	79.663	35.434	1.00 99.58	N
ATOM	5543	NH2	ARG	708	-1.183	78.868	36.151	1.00 99.58	N

ATOM	5544	C	ARG	708	-0.749	83.383	41.333	1.00	99.58	C
ATOM	5545	O	ARG	708	-1.257	83.630	42.426	1.00	99.58	O
ATOM	5546	N	GLN	709	0.431	82.749	41.218	1.00	231.01	N
ATOM	5547	CA	GLN	709	1.033	82.374	42.442	1.00	231.01	C
ATOM	5548	CB	GLN	709	2.166	81.337	42.395	1.00	231.01	C
ATOM	5549	CG	GLN	709	3.459	81.705	41.691	1.00	231.01	C
ATOM	5550	CD	GLN	709	4.415	80.642	42.197	1.00	231.01	C
ATOM	5551	OE1	GLN	709	5.081	79.953	41.427	1.00	231.01	O
ATOM	5552	NE2	GLN	709	4.466	80.499	43.549	1.00	231.01	N
ATOM	5553	C	GLN	709	1.461	83.652	43.062	1.00	231.01	C
ATOM	5554	O	GLN	709	1.316	84.731	42.491	1.00	231.01	O
ATOM	5555	N	ASP	710	1.896	83.571	44.312	1.00	155.19	N
ATOM	5556	CA	ASP	710	2.264	84.738	45.026	1.00	155.19	C
ATOM	5557	CB	ASP	710	1.210	85.863	44.980	1.00	155.19	C
ATOM	5558	CG	ASP	710	-0.137	85.333	45.456	1.00	155.19	C
ATOM	5559	OD1	ASP	710	-0.257	84.109	45.728	1.00	155.19	O
ATOM	5560	OD2	ASP	710	-1.079	86.165	45.539	1.00	155.19	O
ATOM	5561	C	ASP	710	2.398	84.216	46.393	1.00	155.19	C
ATOM	5562	O	ASP	710	2.774	83.055	46.553	1.00	155.19	O
ATOM	5563	N	VAL	711	2.097	85.056	47.395	1.00	123.54	N
ATOM	5564	CA	VAL	711	2.203	84.608	48.741	1.00	123.54	C
ATOM	5565	CB	VAL	711	1.597	83.249	48.998	1.00	123.54	C
ATOM	5566	CG1	VAL	711	1.643	82.887	50.495	1.00	123.54	C
ATOM	5567	CG2	VAL	711	0.183	83.272	48.404	1.00	123.54	C
ATOM	5568	C	VAL	711	3.677	84.648	48.962	1.00	123.54	C
ATOM	5569	O	VAL	711	4.363	85.385	48.259	1.00	123.54	O
ATOM	5570	N	SER	712	4.208	83.834	49.887	1.00	88.65	N
ATOM	5571	CA	SER	712	5.587	83.870	50.267	1.00	88.65	C
ATOM	5572	CB	SER	712	5.925	82.894	51.397	1.00	88.65	C
ATOM	5573	OG	SER	712	5.310	83.346	52.592	1.00	88.65	O
ATOM	5574	C	SER	712	6.492	83.562	49.117	1.00	88.65	C
ATOM	5575	O	SER	712	7.700	83.456	49.319	1.00	88.65	O
ATOM	5576	N	TRP	713	5.955	83.365	47.898	1.00	125.33	N
ATOM	5577	CA	TRP	713	6.826	83.144	46.779	1.00	125.33	C
ATOM	5578	CB	TRP	713	6.033	83.108	45.460	1.00	125.33	C
ATOM	5579	CG	TRP	713	6.825	82.971	44.179	1.00	125.33	C
ATOM	5580	CD2	TRP	713	7.360	81.731	43.695	1.00	125.33	C
ATOM	5581	CD1	TRP	713	7.156	83.920	43.255	1.00	125.33	C
ATOM	5582	NE1	TRP	713	7.845	83.344	42.214	1.00	125.33	N
ATOM	5583	CE2	TRP	713	7.981	81.997	42.474	1.00	125.33	C
ATOM	5584	CE3	TRP	713	7.330	80.474	44.223	1.00	125.33	C
ATOM	5585	CZ2	TRP	713	8.583	81.000	41.758	1.00	125.33	C
ATOM	5586	CZ3	TRP	713	7.940	79.473	43.502	1.00	125.33	C
ATOM	5587	CH2	TRP	713	8.553	79.730	42.293	1.00	125.33	C
ATOM	5588	C	TRP	713	7.767	84.303	46.724	1.00	125.33	C
ATOM	5589	O	TRP	713	8.927	84.154	47.083	1.00	125.33	O
ATOM	5590	N	PHE	714	7.297	85.491	46.305	1.00	120.57	N
ATOM	5591	CA	PHE	714	8.080	86.695	46.329	1.00	120.57	C
ATOM	5592	CB	PHE	714	7.548	87.811	45.422	1.00	120.57	C
ATOM	5593	CG	PHE	714	7.622	87.329	44.021	1.00	120.57	C
ATOM	5594	CD1	PHE	714	8.841	87.082	43.436	1.00	120.57	C
ATOM	5595	CD2	PHE	714	6.475	87.157	43.283	1.00	120.57	C
ATOM	5596	CE1	PHE	714	8.913	86.644	42.136	1.00	120.57	C
ATOM	5597	CE2	PHE	714	6.540	86.721	41.982	1.00	120.57	C
ATOM	5598	CZ	PHE	714	7.762	86.462	41.407	1.00	120.57	C
ATOM	5599	C	PHE	714	7.990	87.236	47.720	1.00	120.57	C
ATOM	5600	O	PHE	714	8.831	88.015	48.159	1.00	120.57	O
ATOM	5601	N	ASP	715	6.890	86.892	48.417	1.00	94.05	N
ATOM	5602	CA	ASP	715	6.617	87.399	49.729	1.00	94.05	C
ATOM	5603	CB	ASP	715	5.255	86.969	50.303	1.00	94.05	C
ATOM	5604	CG	ASP	715	4.178	87.769	49.577	1.00	94.05	C
ATOM	5605	OD1	ASP	715	4.347	87.993	48.349	1.00	94.05	O
ATOM	5606	OD2	ASP	715	3.181	88.169	50.235	1.00	94.05	O
ATOM	5607	C	ASP	715	7.697	86.972	50.684	1.00	94.05	C
ATOM	5608	O	ASP	715	7.923	87.644	51.691	1.00	94.05	O
ATOM	5609	N	ASP	716	8.318	85.797	50.440	1.00	111.69	N
ATOM	5610	CA	ASP	716	9.457	85.319	51.186	1.00	111.69	C
ATOM	5611	CB	ASP	716	9.061	84.451	52.393	1.00	111.69	C
ATOM	5612	CG	ASP	716	10.243	84.380	53.352	1.00	111.69	C
ATOM	5613	OD1	ASP	716	11.043	85.353	53.376	1.00	111.69	O
ATOM	5614	OD2	ASP	716	10.362	83.356	54.076	1.00	111.69	O
ATOM	5615	C	ASP	716	10.175	84.429	50.208	1.00	111.69	C
ATOM	5616	O	ASP	716	10.055	83.205	50.257	1.00	111.69	O
ATOM	5617	N	PRO	717	10.917	85.056	49.329	1.00	178.62	N

ATOM	5618	CA	PRO	717	11.455	84.454	48.137	1.00178.62	C
ATOM	5619	CD	PRO	717	10.914	86.502	49.250	1.00178.62	C
ATOM	5620	CB	PRO	717	11.410	85.555	47.079	1.00178.62	C
ATOM	5621	CG	PRO	717	11.589	86.836	47.906	1.00178.62	C
ATOM	5622	C	PRO	717	12.803	83.833	48.096	1.00178.62	C
ATOM	5623	O	PRO	717	13.569	83.900	49.058	1.00178.62	O
ATOM	5624	N	LYS	718	13.064	83.216	46.923	1.00352.77	N
ATOM	5625	CA	LYS	718	14.328	82.702	46.515	1.00352.77	C
ATOM	5626	CB	LYS	718	14.690	81.362	47.182	1.00352.77	C
ATOM	5627	CG	LYS	718	13.574	80.313	47.184	1.00352.77	C
ATOM	5628	CD	LYS	718	12.347	80.710	48.011	1.00352.77	C
ATOM	5629	CE	LYS	718	12.676	81.200	49.425	1.00352.77	C
ATOM	5630	NZ	LYS	718	13.181	80.091	50.257	1.00352.77	N
ATOM	5631	C	LYS	718	14.239	82.506	45.029	1.00352.77	C
ATOM	5632	O	LYS	718	14.847	81.591	44.475	1.00352.77	O
ATOM	5633	N	ASN	719	13.472	83.370	44.328	1.00155.09	N
ATOM	5634	CA	ASN	719	13.359	83.194	42.911	1.00155.09	C
ATOM	5635	CB	ASN	719	12.026	82.529	42.542	1.00155.09	C
ATOM	5636	CG	ASN	719	11.954	81.216	43.305	1.00155.09	C
ATOM	5637	OD1	ASN	719	12.757	80.311	43.087	1.00155.09	O
ATOM	5638	ND2	ASN	719	10.973	81.116	44.241	1.00155.09	N
ATOM	5639	C	ASN	719	13.339	84.550	42.293	1.00155.09	C
ATOM	5640	O	ASN	719	12.272	85.119	42.073	1.00155.09	O
ATOM	5641	N	THR	720	14.514	85.071	41.909	1.00161.97	N
ATOM	5642	CA	THR	720	14.551	86.411	41.412	1.00161.97	C
ATOM	5643	CB	THR	720	15.909	87.032	41.319	1.00161.97	C
ATOM	5644	OG1	THR	720	16.763	86.248	40.500	1.00161.97	O
ATOM	5645	CG2	THR	720	16.472	87.198	42.733	1.00161.97	C
ATOM	5646	C	THR	720	13.967	86.480	40.056	1.00161.97	C
ATOM	5647	O	THR	720	13.588	85.480	39.445	1.00161.97	O
ATOM	5648	N	THR	721	13.883	87.730	39.574	1.00 66.16	N
ATOM	5649	CA	THR	721	13.309	88.013	38.304	1.00 66.16	C
ATOM	5650	CB	THR	721	13.351	89.471	37.946	1.00 66.16	C
ATOM	5651	OG1	THR	721	12.662	90.237	38.922	1.00 66.16	O
ATOM	5652	CG2	THR	721	12.696	89.660	36.566	1.00 66.16	C
ATOM	5653	C	THR	721	14.089	87.302	37.250	1.00 66.16	C
ATOM	5654	O	THR	721	13.513	86.658	36.376	1.00 66.16	O
ATOM	5655	N	GLY	722	15.429	87.371	37.321	1.00 59.59	N
ATOM	5656	CA	GLY	722	16.220	86.788	36.277	1.00 59.59	C
ATOM	5657	C	GLY	722	15.931	85.333	36.229	1.00 59.59	C
ATOM	5658	O	GLY	722	15.758	84.763	35.152	1.00 59.59	O
ATOM	5659	N	ALA	723	15.826	84.702	37.408	1.00 82.19	N
ATOM	5660	CA	ALA	723	15.617	83.292	37.436	1.00 82.19	C
ATOM	5661	CB	ALA	723	15.463	82.745	38.865	1.00 82.19	C
ATOM	5662	C	ALA	723	14.350	83.021	36.703	1.00 82.19	C
ATOM	5663	O	ALA	723	14.242	82.039	35.974	1.00 82.19	O
ATOM	5664	N	LEU	724	13.356	83.898	36.890	1.00111.38	N
ATOM	5665	CA	LEU	724	12.077	83.741	36.264	1.00111.38	C
ATOM	5666	CB	LEU	724	11.053	84.725	36.843	1.00111.38	C
ATOM	5667	CG	LEU	724	10.872	84.547	38.362	1.00111.38	C
ATOM	5668	CD1	LEU	724	9.837	85.532	38.929	1.00111.38	C
ATOM	5669	CD2	LEU	724	10.577	83.080	38.716	1.00111.38	C
ATOM	5670	C	LEU	724	12.113	83.944	34.775	1.00111.38	C
ATOM	5671	O	LEU	724	11.598	83.127	34.010	1.00111.38	O
ATOM	5672	N	THR	725	12.753	85.034	34.320	1.00143.93	N
ATOM	5673	CA	THR	725	12.749	85.360	32.925	1.00143.93	C
ATOM	5674	CB	THR	725	13.635	86.531	32.662	1.00143.93	C
ATOM	5675	OG1	THR	725	13.185	87.657	33.399	1.00143.93	O
ATOM	5676	CG2	THR	725	13.645	86.820	31.160	1.00143.93	C
ATOM	5677	C	THR	725	13.349	84.211	32.199	1.00143.93	C
ATOM	5678	O	THR	725	12.815	83.722	31.200	1.00143.93	O
ATOM	5679	N	THR	726	14.475	83.722	32.740	1.00174.93	N
ATOM	5680	CA	THR	726	15.181	82.690	32.052	1.00174.93	C
ATOM	5681	CB	THR	726	16.403	82.208	32.774	1.00174.93	C
ATOM	5682	OG1	THR	726	16.062	81.682	34.048	1.00174.93	O
ATOM	5683	CG2	THR	726	17.378	83.380	32.915	1.00174.93	C
ATOM	5684	C	THR	726	14.292	81.518	31.895	1.00174.93	C
ATOM	5685	O	THR	726	14.135	80.988	30.794	1.00174.93	O
ATOM	5686	N	ARG	727	13.625	81.139	32.993	1.00140.11	N
ATOM	5687	CA	ARG	727	12.833	79.952	32.949	1.00140.11	C
ATOM	5688	CB	ARG	727	12.087	79.677	34.268	1.00140.11	C
ATOM	5689	CG	ARG	727	12.993	79.124	35.369	1.00140.11	C
ATOM	5690	CD	ARG	727	12.998	77.595	35.431	1.00140.11	C
ATOM	5691	NE	ARG	727	14.073	77.180	36.377	1.00140.11	N

ATOM	5692	CZ	ARG	727	15.318	76.888	35.899	1.00140.11	C
ATOM	5693	NH1	ARG	727	15.575	76.981	34.562	1.00140.11	N
ATOM	5694	NH2	ARG	727	16.307	76.495	36.755	1.00140.11	N
ATOM	5695	C	ARG	727	11.811	80.050	31.865	1.00140.11	C
ATOM	5696	O	ARG	727	11.635	79.103	31.097	1.00140.11	O
ATOM	5697	N	LEU	728	11.149	81.212	31.725	1.00 98.91	N
ATOM	5698	CA	LEU	728	10.079	81.243	30.776	1.00 98.91	C
ATOM	5699	CB	LEU	728	9.370	82.600	30.710	1.00 98.91	C
ATOM	5700	CG	LEU	728	8.679	82.978	32.029	1.00 98.91	C
ATOM	5701	CD1	LEU	728	7.739	84.176	31.832	1.00 98.91	C
ATOM	5702	CD2	LEU	728	7.992	81.764	32.671	1.00 98.91	C
ATOM	5703	C	LEU	728	10.538	80.916	29.383	1.00 98.91	C
ATOM	5704	O	LEU	728	10.067	79.947	28.788	1.00 98.91	O
ATOM	5705	N	ALA	729	11.510	81.660	28.836	1.00 90.74	N
ATOM	5706	CA	ALA	729	11.814	81.439	27.447	1.00 90.74	C
ATOM	5707	CB	ALA	729	12.777	82.505	26.899	1.00 90.74	C
ATOM	5708	C	ALA	729	12.417	80.099	27.137	1.00 90.74	C
ATOM	5709	O	ALA	729	11.869	79.334	26.340	1.00 90.74	O
ATOM	5710	N	ASN	730	13.523	79.734	27.813	1.00117.50	N
ATOM	5711	CA	ASN	730	14.206	78.555	27.348	1.00117.50	C
ATOM	5712	CB	ASN	730	15.560	78.286	28.043	1.00117.50	C
ATOM	5713	CG	ASN	730	15.363	77.861	29.490	1.00117.50	C
ATOM	5714	OD1	ASN	730	15.040	76.706	29.762	1.00117.50	O
ATOM	5715	ND2	ASN	730	15.598	78.801	30.445	1.00117.50	N
ATOM	5716	C	ASN	730	13.345	77.345	27.511	1.00117.50	C
ATOM	5717	O	ASN	730	13.184	76.560	26.576	1.00117.50	O
ATOM	5718	N	ASP	731	12.707	77.224	28.688	1.00 88.60	N
ATOM	5719	CA	ASP	731	11.987	76.040	29.073	1.00 88.60	C
ATOM	5720	CB	ASP	731	11.416	76.143	30.498	1.00 88.60	C
ATOM	5721	CG	ASP	731	12.576	76.076	31.481	1.00 88.60	C
ATOM	5722	OD1	ASP	731	13.495	75.247	31.243	1.00 88.60	O
ATOM	5723	OD2	ASP	731	12.565	76.852	32.475	1.00 88.60	O
ATOM	5724	C	ASP	731	10.844	75.715	28.164	1.00 88.60	C
ATOM	5725	O	ASP	731	10.623	74.541	27.869	1.00 88.60	O
ATOM	5726	N	ALA	732	10.070	76.715	27.699	1.00 68.39	N
ATOM	5727	CA	ALA	732	8.959	76.339	26.868	1.00 68.39	C
ATOM	5728	CB	ALA	732	8.140	77.546	26.385	1.00 68.39	C
ATOM	5729	C	ALA	732	9.486	75.630	25.653	1.00 68.39	C
ATOM	5730	O	ALA	732	8.978	74.586	25.246	1.00 68.39	O
ATOM	5731	N	ALA	733	10.580	76.134	25.068	1.00 85.55	N
ATOM	5732	CA	ALA	733	11.036	75.505	23.857	1.00 85.55	C
ATOM	5733	CB	ALA	733	12.278	76.198	23.273	1.00 85.55	C
ATOM	5734	C	ALA	733	11.400	74.064	24.070	1.00 85.55	C
ATOM	5735	O	ALA	733	10.937	73.177	23.353	1.00 85.55	O
ATOM	5736	N	GLN	734	12.173	73.782	25.125	1.00105.20	N
ATOM	5737	CA	GLN	734	12.729	72.476	25.331	1.00105.20	C
ATOM	5738	CB	GLN	734	13.424	72.425	26.697	1.00105.20	C
ATOM	5739	CG	GLN	734	14.298	73.654	26.970	1.00105.20	C
ATOM	5740	CD	GLN	734	15.559	73.571	26.129	1.00105.20	C
ATOM	5741	OE1	GLN	734	16.198	72.523	26.051	1.00105.20	O
ATOM	5742	NE2	GLN	734	15.931	74.706	25.479	1.00105.20	N
ATOM	5743	C	GLN	734	11.617	71.471	25.401	1.00105.20	C
ATOM	5744	O	GLN	734	11.655	70.427	24.746	1.00105.20	O
ATOM	5745	N	VAL	735	10.562	71.797	26.167	1.00155.41	N
ATOM	5746	CA	VAL	735	9.507	70.851	26.382	1.00155.41	C
ATOM	5747	CB	VAL	735	8.465	71.323	27.361	1.00155.41	C
ATOM	5748	CG1	VAL	735	8.111	72.795	27.120	1.00155.41	C
ATOM	5749	CG2	VAL	735	7.247	70.416	27.181	1.00155.41	C
ATOM	5750	C	VAL	735	8.861	70.445	25.095	1.00155.41	C
ATOM	5751	O	VAL	735	8.554	69.261	24.918	1.00155.41	O
ATOM	5752	N	LYS	736	8.690	71.398	24.149	1.00160.09	N
ATOM	5753	CA	LYS	736	8.047	71.063	22.906	1.00160.09	C
ATOM	5754	CB	LYS	736	8.001	72.197	21.859	1.00160.09	C
ATOM	5755	CG	LYS	736	9.344	72.552	21.215	1.00160.09	C
ATOM	5756	CD	LYS	736	9.204	73.328	19.901	1.00160.09	C
ATOM	5757	CE	LYS	736	8.085	74.373	19.909	1.00160.09	C
ATOM	5758	NZ	LYS	736	8.647	75.733	20.067	1.00160.09	N
ATOM	5759	C	LYS	736	8.835	69.930	22.322	1.00160.09	C
ATOM	5760	O	LYS	736	8.300	69.043	21.655	1.00160.09	O
ATOM	5761	N	GLY	737	10.142	69.914	22.630	1.00 63.09	N
ATOM	5762	CA	GLY	737	11.004	68.868	22.152	1.00 63.09	C
ATOM	5763	C	GLY	737	10.582	67.519	22.675	1.00 63.09	C
ATOM	5764	O	GLY	737	10.577	66.539	21.930	1.00 63.09	O
ATOM	5765	N	ALA	738	10.198	67.426	23.964	1.00 91.33	N

ATOM	5766	CA	ALA	738	9.895	66.139	24.546	1.00	91.33	C
ATOM	5767	CB	ALA	738	9.495	66.234	26.031	1.00	91.33	C
ATOM	5768	C	ALA	738	8.751	65.457	23.822	1.00	91.33	C
ATOM	5769	O	ALA	738	8.739	64.231	23.696	1.00	91.33	O
ATOM	5770	N	ILE	739	7.711	66.214	23.405	1.00	194.69	N
ATOM	5771	CA	ILE	739	6.555	65.641	22.739	1.00	194.69	C
ATOM	5772	CB	ILE	739	5.374	66.589	22.754	1.00	194.69	C
ATOM	5773	CG1	ILE	739	4.041	65.872	22.447	1.00	194.69	C
ATOM	5774	CG2	ILE	739	5.681	67.773	21.823	1.00	194.69	C
ATOM	5775	CD1	ILE	739	3.878	65.328	21.026	1.00	194.69	C
ATOM	5776	C	ILE	739	6.797	65.185	21.309	1.00	194.69	C
ATOM	5777	O	ILE	739	6.434	64.068	20.927	1.00	194.69	O
ATOM	5778	N	GLY	740	7.436	66.026	20.471	1.00	74.07	N
ATOM	5779	CA	GLY	740	7.607	65.699	19.075	1.00	74.07	C
ATOM	5780	C	GLY	740	8.352	64.407	18.997	1.00	74.07	C
ATOM	5781	O	GLY	740	8.191	63.636	18.048	1.00	74.07	O
ATOM	5782	N	SER	741	9.217	64.169	20.001	1.00	100.36	N
ATOM	5783	CA	SER	741	10.035	62.989	20.062	1.00	100.36	C
ATOM	5784	CB	SER	741	10.907	62.946	21.327	1.00	100.36	C
ATOM	5785	OG	SER	741	11.687	61.760	21.348	1.00	100.36	O
ATOM	5786	C	SER	741	9.174	61.759	20.079	1.00	100.36	C
ATOM	5787	O	SER	741	9.454	60.779	19.383	1.00	100.36	O
ATOM	5788	N	ARG	742	8.069	61.793	20.845	1.00	155.41	N
ATOM	5789	CA	ARG	742	7.257	60.616	20.953	1.00	155.41	C
ATOM	5790	CB	ARG	742	6.015	60.822	21.840	1.00	155.41	C
ATOM	5791	CG	ARG	742	6.353	61.147	23.298	1.00	155.41	C
ATOM	5792	CD	ARG	742	6.936	59.966	24.079	1.00	155.41	C
ATOM	5793	NE	ARG	742	7.209	60.444	25.464	1.00	155.41	N
ATOM	5794	CZ	ARG	742	7.981	59.700	26.310	1.00	155.41	C
ATOM	5795	NH1	ARG	742	8.494	58.502	25.904	1.00	155.41	N
ATOM	5796	NH2	ARG	742	8.241	60.157	27.569	1.00	155.41	N
ATOM	5797	C	ARG	742	6.782	60.258	19.557	1.00	155.41	C
ATOM	5798	O	ARG	742	6.636	59.089	19.195	1.00	155.41	O
ATOM	5799	N	LEU	743	6.536	61.286	18.726	1.00	196.12	N
ATOM	5800	CA	LEU	743	6.011	61.132	17.389	1.00	196.12	C
ATOM	5801	CB	LEU	743	5.682	62.522	16.801	1.00	196.12	C
ATOM	5802	CG	LEU	743	5.104	62.564	15.372	1.00	196.12	C
ATOM	5803	CD1	LEU	743	6.164	62.265	14.302	1.00	196.12	C
ATOM	5804	CD2	LEU	743	3.851	61.682	15.250	1.00	196.12	C
ATOM	5805	C	LEU	743	6.928	60.387	16.436	1.00	196.12	C
ATOM	5806	O	LEU	743	6.512	59.449	15.754	1.00	196.12	O
ATOM	5807	N	ALA	744	8.216	60.763	16.381	1.00	109.15	N
ATOM	5808	CA	ALA	744	9.185	60.203	15.467	1.00	109.15	C
ATOM	5809	CB	ALA	744	10.568	60.869	15.586	1.00	109.15	C
ATOM	5810	C	ALA	744	9.357	58.759	15.781	1.00	109.15	C
ATOM	5811	O	ALA	744	9.918	58.004	14.987	1.00	109.15	O
ATOM	5812	N	VAL	745	9.030	58.386	17.029	1.00	105.11	N
ATOM	5813	CA	VAL	745	9.175	57.028	17.446	1.00	105.11	C
ATOM	5814	CB	VAL	745	8.880	56.846	18.905	1.00	105.11	C
ATOM	5815	CG1	VAL	745	9.003	55.351	19.245	1.00	105.11	C
ATOM	5816	CG2	VAL	745	9.823	57.755	19.713	1.00	105.11	C
ATOM	5817	C	VAL	745	8.247	56.129	16.695	1.00	105.11	C
ATOM	5818	O	VAL	745	8.675	55.219	15.984	1.00	105.11	O
ATOM	5819	N	ILE	746	6.937	56.422	16.766	1.00	116.55	N
ATOM	5820	CA	ILE	746	5.996	55.514	16.177	1.00	116.55	C
ATOM	5821	CB	ILE	746	4.561	55.926	16.370	1.00	116.55	C
ATOM	5822	CG1	ILE	746	3.620	54.762	16.013	1.00	116.55	C
ATOM	5823	CG2	ILE	746	4.300	57.214	15.570	1.00	116.55	C
ATOM	5824	CD1	ILE	746	2.182	54.970	16.489	1.00	116.55	C
ATOM	5825	C	ILE	746	6.282	55.422	14.710	1.00	116.55	C
ATOM	5826	O	ILE	746	6.246	54.342	14.118	1.00	116.55	O
ATOM	5827	N	THR	747	6.621	56.568	14.096	1.00	166.87	N
ATOM	5828	CA	THR	747	6.805	56.595	12.675	1.00	166.87	C
ATOM	5829	CB	THR	747	7.070	57.982	12.159	1.00	166.87	C
ATOM	5830	OG1	THR	747	7.225	57.953	10.749	1.00	166.87	O
ATOM	5831	CG2	THR	747	8.329	58.557	12.823	1.00	166.87	C
ATOM	5832	C	THR	747	7.890	55.694	12.166	1.00	166.87	C
ATOM	5833	O	THR	747	7.605	54.774	11.401	1.00	166.87	O
ATOM	5834	N	GLN	748	9.141	55.859	12.632	1.00	96.72	N
ATOM	5835	CA	GLN	748	10.234	55.126	12.052	1.00	96.72	C
ATOM	5836	CB	GLN	748	11.567	55.375	12.776	1.00	96.72	C
ATOM	5837	CG	GLN	748	11.557	54.856	14.217	1.00	96.72	C
ATOM	5838	CD	GLN	748	12.941	55.023	14.824	1.00	96.72	C
ATOM	5839	OE1	GLN	748	13.579	54.054	15.234	1.00	96.72	O

ATOM	5840	NE2	GLN	748	13.419	56.292	14.895	1.00	96.72	N
ATOM	5841	C	GLN	748	9.935	53.674	12.210	1.00	96.72	C
ATOM	5842	O	GLN	748	10.139	52.876	11.293	1.00	96.72	O
ATOM	5843	N	ASN	749	9.338	53.333	13.364	1.00	97.82	N
ATOM	5844	CA	ASN	749	9.104	51.961	13.685	1.00	97.82	C
ATOM	5845	CB	ASN	749	8.278	51.797	14.970	1.00	97.82	C
ATOM	5846	CG	ASN	749	7.969	50.316	15.139	1.00	97.82	C
ATOM	5847	OD1	ASN	749	8.713	49.449	14.682	1.00	97.82	O
ATOM	5848	ND2	ASN	749	6.814	50.020	15.793	1.00	97.82	N
ATOM	5849	C	ASN	749	8.332	51.272	12.614	1.00	97.82	C
ATOM	5850	O	ASN	749	8.803	50.300	12.026	1.00	97.82	O
ATOM	5851	N	ILE	750	7.142	51.786	12.279	1.00	77.96	N
ATOM	5852	CA	ILE	750	6.348	51.050	11.341	1.00	77.96	C
ATOM	5853	CB	ILE	750	4.985	51.638	11.117	1.00	77.96	C
ATOM	5854	CG1	ILE	750	4.154	51.506	12.405	1.00	77.96	C
ATOM	5855	CG2	ILE	750	4.357	50.948	9.894	1.00	77.96	C
ATOM	5856	CD1	ILE	750	2.803	52.210	12.352	1.00	77.96	C
ATOM	5857	C	ILE	750	7.045	50.947	10.023	1.00	77.96	C
ATOM	5858	O	ILE	750	7.071	49.869	9.428	1.00	77.96	O
ATOM	5859	N	ALA	751	7.670	52.045	9.556	1.00	95.23	N
ATOM	5860	CA	ALA	751	8.217	52.041	8.227	1.00	95.23	C
ATOM	5861	CB	ALA	751	9.162	53.218	8.003	1.00	95.23	C
ATOM	5862	C	ALA	751	9.173	50.921	8.040	1.00	95.23	C
ATOM	5863	O	ALA	751	8.903	49.962	7.318	1.00	95.23	O
ATOM	5864	N	ASN	752	10.272	50.979	8.800	1.00	107.13	N
ATOM	5865	CA	ASN	752	11.325	50.047	8.573	1.00	107.13	C
ATOM	5866	CB	ASN	752	12.494	50.277	9.553	1.00	107.13	C
ATOM	5867	CG	ASN	752	13.572	49.210	9.382	1.00	107.13	C
ATOM	5868	OD1	ASN	752	14.606	49.448	8.762	1.00	107.13	O
ATOM	5869	ND2	ASN	752	13.344	48.006	9.975	1.00	107.13	N
ATOM	5870	C	ASN	752	10.822	48.671	8.805	1.00	107.13	C
ATOM	5871	O	ASN	752	10.822	47.837	7.901	1.00	107.13	O
ATOM	5872	N	LEU	753	10.366	48.404	10.039	1.00	160.02	N
ATOM	5873	CA	LEU	753	10.030	47.045	10.313	1.00	160.02	C
ATOM	5874	CB	LEU	753	9.788	46.813	11.820	1.00	160.02	C
ATOM	5875	CG	LEU	753	9.502	45.356	12.248	1.00	160.02	C
ATOM	5876	CD1	LEU	753	8.106	44.867	11.827	1.00	160.02	C
ATOM	5877	CD2	LEU	753	10.627	44.421	11.778	1.00	160.02	C
ATOM	5878	C	LEU	753	8.816	46.610	9.571	1.00	160.02	C
ATOM	5879	O	LEU	753	8.918	45.826	8.632	1.00	160.02	O
ATOM	5880	N	GLY	754	7.661	47.239	9.867	1.00	50.13	N
ATOM	5881	CA	GLY	754	6.406	46.702	9.422	1.00	50.13	C
ATOM	5882	C	GLY	754	6.385	46.555	7.939	1.00	50.13	C
ATOM	5883	O	GLY	754	6.008	45.508	7.412	1.00	50.13	O
ATOM	5884	N	THR	755	6.811	47.594	7.214	1.00	50.38	N
ATOM	5885	CA	THR	755	6.772	47.473	5.790	1.00	50.38	C
ATOM	5886	CB	THR	755	7.093	48.749	5.082	1.00	50.38	C
ATOM	5887	OG1	THR	755	6.224	49.781	5.524	1.00	50.38	O
ATOM	5888	CG2	THR	755	6.887	48.511	3.574	1.00	50.38	C
ATOM	5889	C	THR	755	7.784	46.465	5.359	1.00	50.38	C
ATOM	5890	O	THR	755	7.531	45.644	4.479	1.00	50.38	O
ATOM	5891	N	GLY	756	8.972	46.492	5.985	1.00	39.44	N
ATOM	5892	CA	GLY	756	10.026	45.622	5.558	1.00	39.44	C
ATOM	5893	C	GLY	756	9.613	44.201	5.748	1.00	39.44	C
ATOM	5894	O	GLY	756	9.916	43.355	4.914	1.00	39.44	O
ATOM	5895	N	ILE	757	8.931	43.896	6.866	1.00	114.11	N
ATOM	5896	CA	ILE	757	8.553	42.546	7.176	1.00	114.11	C
ATOM	5897	CB	ILE	757	7.973	42.386	8.552	1.00	114.11	C
ATOM	5898	CG1	ILE	757	6.672	43.183	8.704	1.00	114.11	C
ATOM	5899	CG2	ILE	757	9.055	42.789	9.562	1.00	114.11	C
ATOM	5900	CD1	ILE	757	5.913	42.870	9.993	1.00	114.11	C
ATOM	5901	C	ILE	757	7.558	42.019	6.189	1.00	114.11	C
ATOM	5902	O	ILE	757	7.631	40.862	5.779	1.00	114.11	O
ATOM	5903	N	ILE	758	6.578	42.840	5.779	1.00	105.54	N
ATOM	5904	CA	ILE	758	5.593	42.319	4.875	1.00	105.54	C
ATOM	5905	CB	ILE	758	4.577	43.354	4.492	1.00	105.54	C
ATOM	5906	CG1	ILE	758	3.860	43.889	5.742	1.00	105.54	C
ATOM	5907	CG2	ILE	758	3.628	42.724	3.460	1.00	105.54	C
ATOM	5908	CD1	ILE	758	3.139	42.802	6.536	1.00	105.54	C
ATOM	5909	C	ILE	758	6.308	41.915	3.623	1.00	105.54	C
ATOM	5910	O	ILE	758	6.159	40.802	3.120	1.00	105.54	O
ATOM	5911	N	ILE	759	7.160	42.818	3.119	1.00	127.67	N
ATOM	5912	CA	ILE	759	7.949	42.583	1.947	1.00	127.67	C
ATOM	5913	CB	ILE	759	8.727	43.791	1.494	1.00	127.67	C



ATOM	5914	CG1	ILE	759	7.761	44.830	0.898	1.00127.67	C
ATOM	5915	CG2	ILE	759	9.790	43.350	0.474	1.00127.67	C
ATOM	5916	CD1	ILE	759	6.728	45.376	1.876	1.00127.67	C
ATOM	5917	C	ILE	759	8.865	41.456	2.277	1.00127.67	C
ATOM	5918	O	ILE	759	9.427	40.801	1.403	1.00127.67	O
ATOM	5919	N	SER	760	9.127	41.273	3.576	1.00 97.66	N
ATOM	5920	CA	SER	760	9.955	40.195	4.005	1.00 97.66	C
ATOM	5921	CB	SER	760	10.267	40.240	5.509	1.00 97.66	C
ATOM	5922	OG	SER	760	10.896	39.039	5.912	1.00 97.66	O
ATOM	5923	C	SER	760	9.252	38.917	3.685	1.00 97.66	C
ATOM	5924	O	SER	760	9.892	37.898	3.427	1.00 97.66	O
ATOM	5925	N	PHE	761	7.906	38.935	3.697	1.00 92.91	N
ATOM	5926	CA	PHE	761	7.184	37.739	3.379	1.00 92.91	C
ATOM	5927	CB	PHE	761	5.656	37.901	3.478	1.00 92.91	C
ATOM	5928	CG	PHE	761	5.295	38.057	4.915	1.00 92.91	C
ATOM	5929	CD1	PHE	761	5.295	39.297	5.510	1.00 92.91	C
ATOM	5930	CD2	PHE	761	4.957	36.957	5.670	1.00 92.91	C
ATOM	5931	CE1	PHE	761	4.962	39.436	6.836	1.00 92.91	C
ATOM	5932	CE2	PHE	761	4.623	37.090	6.997	1.00 92.91	C
ATOM	5933	CZ	PHE	761	4.625	38.333	7.582	1.00 92.91	C
ATOM	5934	C	PHE	761	7.500	37.381	1.964	1.00 92.91	C
ATOM	5935	O	PHE	761	7.894	36.254	1.668	1.00 92.91	O
ATOM	5936	N	ILE	762	7.399	38.364	1.052	1.00 80.74	N
ATOM	5937	CA	ILE	762	7.641	38.074	-0.329	1.00 80.74	C
ATOM	5938	CB	ILE	762	7.424	39.214	-1.291	1.00 80.74	C
ATOM	5939	CG1	ILE	762	7.411	38.653	-2.718	1.00 80.74	C
ATOM	5940	CG2	ILE	762	8.499	40.291	-1.106	1.00 80.74	C
ATOM	5941	CD1	ILE	762	6.965	39.670	-3.764	1.00 80.74	C
ATOM	5942	C	ILE	762	9.047	37.595	-0.448	1.00 80.74	C
ATOM	5943	O	ILE	762	9.375	36.843	-1.365	1.00 80.74	O
ATOM	5944	N	TYR	763	9.942	38.071	0.439	1.00135.02	N
ATOM	5945	CA	TYR	763	11.282	37.568	0.335	1.00135.02	C
ATOM	5946	CB	TYR	763	12.332	38.017	1.360	1.00135.02	C
ATOM	5947	CG	TYR	763	12.553	39.484	1.372	1.00135.02	C
ATOM	5948	CD1	TYR	763	12.776	40.204	0.224	1.00135.02	C
ATOM	5949	CD2	TYR	763	12.509	40.144	2.572	1.00135.02	C
ATOM	5950	CE1	TYR	763	12.966	41.564	0.298	1.00135.02	C
ATOM	5951	CE2	TYR	763	12.698	41.499	2.652	1.00135.02	C
ATOM	5952	CZ	TYR	763	12.929	42.214	1.509	1.00135.02	C
ATOM	5953	OH	TYR	763	13.120	43.608	1.590	1.00135.02	O
ATOM	5954	C	TYR	763	11.214	36.088	0.524	1.00135.02	C
ATOM	5955	O	TYR	763	10.380	35.592	1.282	1.00135.02	O
ATOM	5956	N	GLY	764	12.094	35.346	-0.181	1.00 74.42	N
ATOM	5957	CA	GLY	764	12.039	33.916	-0.115	1.00 74.42	C
ATOM	5958	C	GLY	764	13.065	33.353	0.831	1.00 74.42	C
ATOM	5959	O	GLY	764	13.849	32.480	0.466	1.00 74.42	O
ATOM	5960	N	TRP	765	13.120	33.883	2.065	1.00136.75	N
ATOM	5961	CA	TRP	765	13.787	33.231	3.161	1.00136.75	C
ATOM	5962	CB	TRP	765	13.176	31.839	3.381	1.00136.75	C
ATOM	5963	CG	TRP	765	11.669	31.877	3.463	1.00136.75	C
ATOM	5964	CD2	TRP	765	10.887	31.755	4.661	1.00136.75	C
ATOM	5965	CD1	TRP	765	10.780	32.021	2.438	1.00136.75	C
ATOM	5966	NE1	TRP	765	9.495	32.007	2.921	1.00136.75	N
ATOM	5967	CE2	TRP	765	9.545	31.841	4.288	1.00136.75	C
ATOM	5968	CE3	TRP	765	11.256	31.586	5.964	1.00136.75	C
ATOM	5969	CZ2	TRP	765	8.548	31.760	5.216	1.00136.75	C
ATOM	5970	CZ3	TRP	765	10.247	31.502	6.898	1.00136.75	C
ATOM	5971	CH2	TRP	765	8.920	31.588	6.530	1.00136.75	C
ATOM	5972	C	TRP	765	15.265	33.015	2.949	1.00136.75	C
ATOM	5973	O	TRP	765	15.848	32.196	3.657	1.00136.75	O
ATOM	5974	N	GLN	766	15.901	33.566	1.899	1.00155.26	N
ATOM	5975	CA	GLN	766	17.335	33.427	1.822	1.00155.26	C
ATOM	5976	CB	GLN	766	17.798	33.077	0.404	1.00155.26	C
ATOM	5977	CG	GLN	766	17.140	31.784	-0.072	1.00155.26	C
ATOM	5978	CD	GLN	766	17.208	30.805	1.091	1.00155.26	C
ATOM	5979	OE1	GLN	766	18.282	30.513	1.612	1.00155.26	O
ATOM	5980	NE2	GLN	766	16.021	30.300	1.524	1.00155.26	N
ATOM	5981	C	GLN	766	18.101	34.636	2.293	1.00155.26	C
ATOM	5982	O	GLN	766	19.232	34.537	2.767	1.00155.26	O
ATOM	5983	N	LEU	767	17.595	35.821	1.902	1.00186.18	N
ATOM	5984	CA	LEU	767	18.132	37.113	2.213	1.00186.18	C
ATOM	5985	CB	LEU	767	18.013	38.107	1.053	1.00186.18	C
ATOM	5986	CG	LEU	767	18.962	37.747	-0.103	1.00186.18	C
ATOM	5987	CD1	LEU	767	20.432	37.897	0.325	1.00186.18	C

ATOM	5988	CD2	LEU	767	18.657	36.349	-0.665	1.00186.18	C
ATOM	5989	C	LEU	767	17.549	37.727	3.426	1.00186.18	C
ATOM	5990	O	LEU	767	18.262	38.408	4.147	1.00186.18	O
ATOM	5991	N	THR	768	16.238	37.527	3.674	1.00 80.25	N
ATOM	5992	CA	THR	768	15.583	38.198	4.764	1.00 80.25	C
ATOM	5993	CB	THR	768	14.220	37.661	5.047	1.00 80.25	C
ATOM	5994	OG1	THR	768	13.407	37.749	3.894	1.00 80.25	O
ATOM	5995	CG2	THR	768	13.608	38.482	6.192	1.00 80.25	C
ATOM	5996	C	THR	768	16.357	37.874	5.982	1.00 80.25	C
ATOM	5997	O	THR	768	16.775	38.755	6.732	1.00 80.25	O
ATOM	5998	N	LEU	769	16.600	36.572	6.157	1.00131.47	N
ATOM	5999	CA	LEU	769	17.392	36.118	7.246	1.00131.47	C
ATOM	6000	CB	LEU	769	17.429	34.589	7.375	1.00131.47	C
ATOM	6001	CG	LEU	769	18.098	34.087	8.673	1.00131.47	C
ATOM	6002	CD1	LEU	769	19.606	34.377	8.742	1.00131.47	C
ATOM	6003	CD2	LEU	769	17.345	34.618	9.900	1.00131.47	C
ATOM	6004	C	LEU	769	18.782	36.580	6.984	1.00131.47	C
ATOM	6005	O	LEU	769	19.503	36.984	7.890	1.00131.47	O
ATOM	6006	N	LEU	770	19.180	36.574	5.706	1.00162.65	N
ATOM	6007	CA	LEU	770	20.529	36.851	5.328	1.00162.65	C
ATOM	6008	CB	LEU	770	20.663	36.904	3.793	1.00162.65	C
ATOM	6009	CG	LEU	770	22.102	36.885	3.252	1.00162.65	C
ATOM	6010	CD1	LEU	770	22.916	38.105	3.693	1.00162.65	C
ATOM	6011	CD2	LEU	770	22.785	35.555	3.585	1.00162.65	C
ATOM	6012	C	LEU	770	20.946	38.189	5.896	1.00162.65	C
ATOM	6013	O	LEU	770	22.040	38.303	6.439	1.00162.65	O
ATOM	6014	N	LEU	771	20.110	39.232	5.720	1.00163.34	N
ATOM	6015	CA	LEU	771	20.255	40.605	6.120	1.00163.34	C
ATOM	6016	CB	LEU	771	19.328	41.496	5.266	1.00163.34	C
ATOM	6017	CG	LEU	771	19.355	43.028	5.483	1.00163.34	C
ATOM	6018	CD1	LEU	771	18.495	43.690	4.401	1.00163.34	C
ATOM	6019	CD2	LEU	771	18.886	43.489	6.875	1.00163.34	C
ATOM	6020	C	LEU	771	19.959	40.864	7.557	1.00163.34	C
ATOM	6021	O	LEU	771	20.695	41.584	8.215	1.00163.34	O
ATOM	6022	N	LEU	772	18.879	40.284	8.092	1.00151.38	N
ATOM	6023	CA	LEU	772	18.409	40.597	9.411	1.00151.38	C
ATOM	6024	CB	LEU	772	17.246	39.657	9.779	1.00151.38	C
ATOM	6025	CG	LEU	772	16.633	39.852	11.173	1.00151.38	C
ATOM	6026	CD1	LEU	772	17.571	39.384	12.297	1.00151.38	C
ATOM	6027	CD2	LEU	772	16.144	41.295	11.358	1.00151.38	C
ATOM	6028	C	LEU	772	19.540	40.341	10.337	1.00151.38	C
ATOM	6029	O	LEU	772	19.683	41.004	11.358	1.00151.38	O
ATOM	6030	N	ALA	773	20.365	39.337	10.035	1.00 56.85	N
ATOM	6031	CA	ALA	773	21.485	39.133	10.897	1.00 56.85	C
ATOM	6032	CB	ALA	773	22.304	37.890	10.513	1.00 56.85	C
ATOM	6033	C	ALA	773	22.409	40.317	10.809	1.00 56.85	C
ATOM	6034	O	ALA	773	22.827	40.862	11.829	1.00 56.85	O
ATOM	6035	N	ILE	774	22.729	40.767	9.577	1.00144.11	N
ATOM	6036	CA	ILE	774	23.677	41.833	9.397	1.00144.11	C
ATOM	6037	CB	ILE	774	24.133	42.106	7.987	1.00144.11	C
ATOM	6038	CG1	ILE	774	22.983	42.527	7.066	1.00144.11	C
ATOM	6039	CG2	ILE	774	24.945	40.905	7.508	1.00144.11	C
ATOM	6040	CD1	ILE	774	23.448	43.080	5.723	1.00144.11	C
ATOM	6041	C	ILE	774	23.219	43.149	9.939	1.00144.11	C
ATOM	6042	O	ILE	774	23.992	43.797	10.638	1.00144.11	O
ATOM	6043	N	VAL	775	21.979	43.598	9.658	1.00 80.10	N
ATOM	6044	CA	VAL	775	21.643	44.919	10.115	1.00 80.10	C
ATOM	6045	CB	VAL	775	20.309	45.424	9.656	1.00 80.10	C
ATOM	6046	CG1	VAL	775	19.980	46.702	10.447	1.00 80.10	C
ATOM	6047	CG2	VAL	775	20.401	45.677	8.142	1.00 80.10	C
ATOM	6048	C	VAL	775	21.726	44.980	11.601	1.00 80.10	C
ATOM	6049	O	VAL	775	22.343	45.904	12.118	1.00 80.10	O
ATOM	6050	N	PRO	776	21.173	44.068	12.337	1.00104.44	N
ATOM	6051	CA	PRO	776	21.388	44.191	13.745	1.00104.44	C
ATOM	6052	CD	PRO	776	19.795	43.696	12.082	1.00104.44	C
ATOM	6053	CB	PRO	776	20.428	43.201	14.391	1.00104.44	C
ATOM	6054	CG	PRO	776	19.210	43.290	13.450	1.00104.44	C
ATOM	6055	C	PRO	776	22.825	44.148	14.154	1.00104.44	C
ATOM	6056	O	PRO	776	23.178	44.880	15.071	1.00104.44	O
ATOM	6057	N	ILE	777	23.682	43.348	13.500	1.00109.96	N
ATOM	6058	CA	ILE	777	25.055	43.321	13.916	1.00109.96	C
ATOM	6059	CB	ILE	777	25.821	42.183	13.302	1.00109.96	C
ATOM	6060	CG1	ILE	777	27.106	41.933	14.089	1.00109.96	C
ATOM	6061	CG2	ILE	777	26.066	42.451	11.810	1.00109.96	C

ATOM	6062	CD1	ILE	777	27.724	40.593	13.721	1.00109.96	C
ATOM	6063	C	ILE	777	25.712	44.631	13.592	1.00109.96	C
ATOM	6064	O	ILE	777	26.429	45.195	14.415	1.00109.96	O
ATOM	6065	N	ILE	778	25.479	45.155	12.375	1.00200.38	N
ATOM	6066	CA	ILE	778	26.049	46.396	11.940	1.00200.38	C
ATOM	6067	CB	ILE	778	25.788	46.589	10.465	1.00200.38	C
ATOM	6068	CG1	ILE	778	26.387	47.884	9.925	1.00200.38	C
ATOM	6069	CG2	ILE	778	24.279	46.485	10.214	1.00200.38	C
ATOM	6070	CD1	ILE	778	25.618	49.138	10.329	1.00200.38	C
ATOM	6071	C	ILE	778	25.491	47.515	12.778	1.00200.38	C
ATOM	6072	O	ILE	778	26.225	48.398	13.216	1.00200.38	O
ATOM	6073	N	ALA	779	24.171	47.507	13.034	1.00 37.00	N
ATOM	6074	CA	ALA	779	23.538	48.531	13.819	1.00 37.00	C
ATOM	6075	CB	ALA	779	22.019	48.328	13.946	1.00 37.00	C
ATOM	6076	C	ALA	779	24.116	48.466	15.195	1.00 37.00	C
ATOM	6077	O	ALA	779	24.461	49.489	15.787	1.00 37.00	O
ATOM	6078	N	ILE	780	24.282	47.236	15.717	1.00 52.07	N
ATOM	6079	CA	ILE	780	24.825	47.063	17.029	1.00 52.07	C
ATOM	6080	CB	ILE	780	24.963	45.634	17.483	1.00 52.07	C
ATOM	6081	CG1	ILE	780	23.582	45.016	17.767	1.00 52.07	C
ATOM	6082	CG2	ILE	780	25.895	45.615	18.707	1.00 52.07	C
ATOM	6083	CD1	ILE	780	23.605	43.495	17.912	1.00 52.07	C
ATOM	6084	C	ILE	780	26.178	47.678	17.014	1.00 52.07	C
ATOM	6085	O	ILE	780	26.631	48.202	18.026	1.00 52.07	O
ATOM	6086	N	ALA	781	26.875	47.607	15.867	1.00 49.97	N
ATOM	6087	CA	ALA	781	28.184	48.177	15.789	1.00 49.97	C
ATOM	6088	CB	ALA	781	28.815	48.014	14.397	1.00 49.97	C
ATOM	6089	C	ALA	781	28.088	49.642	16.073	1.00 49.97	C
ATOM	6090	O	ALA	781	28.864	50.152	16.877	1.00 49.97	O
ATOM	6091	N	GLY	782	27.090	50.343	15.491	1.00 45.04	N
ATOM	6092	CA	GLY	782	27.003	51.773	15.653	1.00 45.04	C
ATOM	6093	C	GLY	782	26.959	52.078	17.119	1.00 45.04	C
ATOM	6094	O	GLY	782	27.678	52.956	17.595	1.00 45.04	O
ATOM	6095	N	VAL	783	26.121	51.349	17.878	1.00113.35	N
ATOM	6096	CA	VAL	783	26.049	51.593	19.290	1.00113.35	C
ATOM	6097	CB	VAL	783	24.873	50.929	19.955	1.00113.35	C
ATOM	6098	CG1	VAL	783	25.039	49.403	19.905	1.00113.35	C
ATOM	6099	CG2	VAL	783	24.754	51.483	21.383	1.00113.35	C
ATOM	6100	C	VAL	783	27.309	51.142	20.000	1.00113.35	C
ATOM	6101	O	VAL	783	27.873	51.892	20.794	1.00113.35	O
ATOM	6102	N	VAL	784	27.813	49.920	19.714	1.00104.35	N
ATOM	6103	CA	VAL	784	28.933	49.343	20.428	1.00104.35	C
ATOM	6104	CB	VAL	784	29.249	47.943	19.982	1.00104.35	C
ATOM	6105	CG1	VAL	784	29.671	47.980	18.505	1.00104.35	C
ATOM	6106	CG2	VAL	784	30.320	47.354	20.917	1.00104.35	C
ATOM	6107	C	VAL	784	30.165	50.170	20.242	1.00104.35	C
ATOM	6108	O	VAL	784	30.930	50.371	21.186	1.00104.35	O
ATOM	6109	N	GLU	785	30.404	50.661	19.014	1.00 72.61	N
ATOM	6110	CA	GLU	785	31.560	51.469	18.776	1.00 72.61	C
ATOM	6111	CB	GLU	785	31.636	51.977	17.336	1.00 72.61	C
ATOM	6112	CG	GLU	785	32.864	52.846	17.084	1.00 72.61	C
ATOM	6113	CD	GLU	785	32.546	53.684	15.861	1.00 72.61	C
ATOM	6114	OE1	GLU	785	31.649	54.561	15.981	1.00 72.61	O
ATOM	6115	OE2	GLU	785	33.177	53.459	14.794	1.00 72.61	O
ATOM	6116	C	GLU	785	31.412	52.679	19.628	1.00 72.61	C
ATOM	6117	O	GLU	785	32.340	53.079	20.323	1.00 72.61	O
ATOM	6118	N	MET	786	30.203	53.260	19.645	1.00 94.01	N
ATOM	6119	CA	MET	786	29.978	54.445	20.414	1.00 94.01	C
ATOM	6120	CB	MET	786	28.506	54.899	20.392	1.00 94.01	C
ATOM	6121	CG	MET	786	28.093	55.709	21.629	1.00 94.01	C
ATOM	6122	SD	MET	786	27.550	54.682	23.037	1.00 94.01	S
ATOM	6123	CE	MET	786	27.961	55.877	24.339	1.00 94.01	C
ATOM	6124	C	MET	786	30.314	54.143	21.838	1.00 94.01	C
ATOM	6125	O	MET	786	30.963	54.950	22.498	1.00 94.01	O
ATOM	6126	N	LYS	787	29.904	52.962	22.340	1.00115.31	N
ATOM	6127	CA	LYS	787	30.079	52.623	23.728	1.00115.31	C
ATOM	6128	CB	LYS	787	29.696	51.164	24.031	1.00115.31	C
ATOM	6129	CG	LYS	787	29.973	50.768	25.485	1.00115.31	C
ATOM	6130	CD	LYS	787	29.619	49.319	25.828	1.00115.31	C
ATOM	6131	CE	LYS	787	28.344	48.808	25.163	1.00115.31	C
ATOM	6132	NZ	LYS	787	28.191	47.363	25.435	1.00115.31	N
ATOM	6133	C	LYS	787	31.534	52.666	24.115	1.00115.31	C
ATOM	6134	O	LYS	787	31.901	53.359	25.061	1.00115.31	O
ATOM	6135	N	MET	788	32.403	51.928	23.389	1.00 52.72	N

ATOM	6136	CA	MET	788	33.800	51.848	23.743	1.00	52.72	C
ATOM	6137	CB	MET	788	34.609	50.828	22.921	1.00	52.72	C
ATOM	6138	CG	MET	788	36.086	50.782	23.330	1.00	52.72	C
ATOM	6139	SD	MET	788	36.400	50.150	25.008	1.00	52.72	S
ATOM	6140	CE	MET	788	35.984	48.422	24.639	1.00	52.72	C
ATOM	6141	C	MET	788	34.437	53.185	23.572	1.00	52.72	C
ATOM	6142	O	MET	788	35.302	53.571	24.357	1.00	52.72	O
ATOM	6143	N	LEU	789	34.023	53.928	22.530	1.00	132.32	N
ATOM	6144	CA	LEU	789	34.555	55.237	22.297	1.00	132.32	C
ATOM	6145	CB	LEU	789	33.986	55.927	21.051	1.00	132.32	C
ATOM	6146	CG	LEU	789	34.718	55.544	19.754	1.00	132.32	C
ATOM	6147	CD1	LEU	789	34.776	54.028	19.538	1.00	132.32	C
ATOM	6148	CD2	LEU	789	34.109	56.288	18.559	1.00	132.32	C
ATOM	6149	C	LEU	789	34.224	56.068	23.484	1.00	132.32	C
ATOM	6150	O	LEU	789	34.994	56.947	23.862	1.00	132.32	O
ATOM	6151	N	SER	790	33.046	55.825	24.081	1.00	95.69	N
ATOM	6152	CA	SER	790	32.612	56.542	25.240	1.00	95.69	C
ATOM	6153	CB	SER	790	31.196	56.127	25.672	1.00	95.69	C
ATOM	6154	OG	SER	790	30.802	56.860	26.820	1.00	95.69	O
ATOM	6155	C	SER	790	33.537	56.247	26.384	1.00	95.69	C
ATOM	6156	O	SER	790	33.960	57.158	27.092	1.00	95.69	O
ATOM	6157	N	GLY	791	33.903	54.965	26.583	1.00	31.74	N
ATOM	6158	CA	GLY	791	34.706	54.623	27.720	1.00	31.74	C
ATOM	6159	C	GLY	791	36.014	55.341	27.641	1.00	31.74	C
ATOM	6160	O	GLY	791	36.484	55.894	28.632	1.00	31.74	O
ATOM	6161	N	GLN	792	36.647	55.338	26.456	1.00	142.41	N
ATOM	6162	CA	GLN	792	37.912	55.989	26.298	1.00	142.41	C
ATOM	6163	CB	GLN	792	38.544	55.705	24.929	1.00	142.41	C
ATOM	6164	CG	GLN	792	39.906	56.370	24.752	1.00	142.41	C
ATOM	6165	CD	GLN	792	40.891	55.634	25.649	1.00	142.41	C
ATOM	6166	OE1	GLN	792	41.100	54.430	25.511	1.00	142.41	O
ATOM	6167	NE2	GLN	792	41.508	56.377	26.607	1.00	142.41	N
ATOM	6168	C	GLN	792	37.732	57.476	26.417	1.00	142.41	C
ATOM	6169	O	GLN	792	38.542	58.147	27.049	1.00	142.41	O
ATOM	6170	N	ALA	793	36.658	58.032	25.816	1.00	66.00	N
ATOM	6171	CA	ALA	793	36.441	59.458	25.817	1.00	66.00	C
ATOM	6172	CB	ALA	793	35.163	59.859	25.059	1.00	66.00	C
ATOM	6173	C	ALA	793	36.267	59.921	27.231	1.00	66.00	C
ATOM	6174	O	ALA	793	36.849	60.927	27.627	1.00	66.00	O
ATOM	6175	N	LEU	794	35.456	59.196	28.027	1.00	125.10	N
ATOM	6176	CA	LEU	794	35.160	59.583	29.379	1.00	125.10	C
ATOM	6177	CB	LEU	794	34.046	58.710	29.996	1.00	125.10	C
ATOM	6178	CG	LEU	794	33.488	59.182	31.358	1.00	125.10	C
ATOM	6179	CD1	LEU	794	34.529	59.105	32.485	1.00	125.10	C
ATOM	6180	CD2	LEU	794	32.829	60.566	31.239	1.00	125.10	C
ATOM	6181	C	LEU	794	36.386	59.449	30.230	1.00	125.10	C
ATOM	6182	O	LEU	794	36.715	60.356	30.991	1.00	125.10	O
ATOM	6183	N	LYS	795	37.109	58.317	30.110	1.00	129.24	N
ATOM	6184	CA	LYS	795	38.232	58.070	30.968	1.00	129.24	C
ATOM	6185	CB	LYS	795	38.912	56.714	30.723	1.00	129.24	C
ATOM	6186	CG	LYS	795	39.569	56.605	29.349	1.00	129.24	C
ATOM	6187	CD	LYS	795	40.630	55.507	29.274	1.00	129.24	C
ATOM	6188	CE	LYS	795	41.929	55.894	29.984	1.00	129.24	C
ATOM	6189	NZ	LYS	795	42.944	54.836	29.811	1.00	129.24	N
ATOM	6190	C	LYS	795	39.266	59.124	30.735	1.00	129.24	C
ATOM	6191	O	LYS	795	39.832	59.653	31.688	1.00	129.24	O
ATOM	6192	N	ASP	796	39.548	59.451	29.459	1.00	115.88	N
ATOM	6193	CA	ASP	796	40.550	60.434	29.153	1.00	115.88	C
ATOM	6194	CB	ASP	796	40.892	60.527	27.659	1.00	115.88	C
ATOM	6195	CG	ASP	796	42.261	61.187	27.561	1.00	115.88	C
ATOM	6196	OD1	ASP	796	42.336	62.443	27.620	1.00	115.88	O
ATOM	6197	OD2	ASP	796	43.257	60.427	27.426	1.00	115.88	O
ATOM	6198	C	ASP	796	40.059	61.752	29.613	1.00	115.88	C
ATOM	6199	O	ASP	796	40.831	62.583	30.084	1.00	115.88	O
ATOM	6200	N	LYS	797	38.744	61.969	29.503	1.00	168.51	N
ATOM	6201	CA	LYS	797	38.195	63.207	29.933	1.00	168.51	C
ATOM	6202	CB	LYS	797	36.679	63.262	29.764	1.00	168.51	C
ATOM	6203	CG	LYS	797	36.118	64.663	29.949	1.00	168.51	C
ATOM	6204	CD	LYS	797	34.711	64.795	29.377	1.00	168.51	C
ATOM	6205	CE	LYS	797	34.633	64.428	27.892	1.00	168.51	C
ATOM	6206	NZ	LYS	797	33.223	64.241	27.485	1.00	168.51	N
ATOM	6207	C	LYS	797	38.524	63.275	31.389	1.00	168.51	C
ATOM	6208	O	LYS	797	38.652	64.366	31.929	1.00	168.51	O
ATOM	6209	N	LYS	798	38.598	62.105	32.066	1.00	140.94	N

ATOM	6210	CA	LYS	798	38.936	61.989	33.465	1.00140.94	C
ATOM	6211	CB	LYS	798	38.645	60.583	34.019	1.00140.94	C
ATOM	6212	CG	LYS	798	37.151	60.254	34.035	1.00140.94	C
ATOM	6213	CD	LYS	798	36.324	61.212	34.896	1.00140.94	C
ATOM	6214	CE	LYS	798	34.813	61.022	34.751	1.00140.94	C
ATOM	6215	NZ	LYS	798	34.097	61.987	35.616	1.00140.94	N
ATOM	6216	C	LYS	798	40.388	62.302	33.762	1.00140.94	C
ATOM	6217	O	LYS	798	40.684	63.086	34.658	1.00140.94	O
ATOM	6218	N	GLU	799	41.354	61.710	33.031	1.00 93.72	N
ATOM	6219	CA	GLU	799	42.741	61.940	33.357	1.00 93.72	C
ATOM	6220	CB	GLU	799	43.664	61.145	32.418	1.00 93.72	C
ATOM	6221	CG	GLU	799	43.485	59.629	32.548	1.00 93.72	C
ATOM	6222	CD	GLU	799	44.022	58.966	31.285	1.00 93.72	C
ATOM	6223	OE1	GLU	799	44.408	59.710	30.344	1.00 93.72	O
ATOM	6224	OE2	GLU	799	44.043	57.707	31.239	1.00 93.72	O
ATOM	6225	C	GLU	799	42.999	63.394	33.133	1.00 93.72	C
ATOM	6226	O	GLU	799	43.566	64.094	33.970	1.00 93.72	O
ATOM	6227	N	LEU	800	42.506	63.864	31.980	1.00179.29	N
ATOM	6228	CA	LEU	800	42.547	65.192	31.453	1.00179.29	C
ATOM	6229	CB	LEU	800	41.747	65.169	30.134	1.00179.29	C
ATOM	6230	CG	LEU	800	41.360	66.507	29.492	1.00179.29	C
ATOM	6231	CD1	LEU	800	40.237	67.218	30.266	1.00179.29	C
ATOM	6232	CD2	LEU	800	42.591	67.385	29.260	1.00179.29	C
ATOM	6233	C	LEU	800	41.848	66.059	32.430	1.00179.29	C
ATOM	6234	O	LEU	800	42.305	67.162	32.706	1.00179.29	O
ATOM	6235	N	GLU	801	40.715	65.581	32.974	1.00 98.54	N
ATOM	6236	CA	GLU	801	39.947	66.362	33.894	1.00 98.54	C
ATOM	6237	CB	GLU	801	38.542	65.827	34.240	1.00 98.54	C
ATOM	6238	CG	GLU	801	38.489	64.627	35.179	1.00 98.54	C
ATOM	6239	CD	GLU	801	37.023	64.270	35.370	1.00 98.54	C
ATOM	6240	OE1	GLU	801	36.220	64.569	34.446	1.00 98.54	O
ATOM	6241	OE2	GLU	801	36.687	63.690	36.437	1.00 98.54	O
ATOM	6242	C	GLU	801	40.743	66.486	35.133	1.00 98.54	C
ATOM	6243	O	GLU	801	40.586	67.445	35.879	1.00 98.54	O
ATOM	6244	N	GLY	802	41.599	65.493	35.419	1.00 68.55	N
ATOM	6245	CA	GLY	802	42.376	65.644	36.599	1.00 68.55	C
ATOM	6246	C	GLY	802	43.204	66.871	36.431	1.00 68.55	C
ATOM	6247	O	GLY	802	43.173	67.759	37.278	1.00 68.55	O
ATOM	6248	N	SER	803	43.925	66.963	35.299	1.00 74.84	N
ATOM	6249	CA	SER	803	44.793	68.068	35.023	1.00 74.84	C
ATOM	6250	CB	SER	803	45.610	67.860	33.738	1.00 74.84	C
ATOM	6251	OG	SER	803	46.438	66.714	33.870	1.00 74.84	O
ATOM	6252	C	SER	803	44.004	69.333	34.847	1.00 74.84	C
ATOM	6253	O	SER	803	44.151	70.271	35.622	1.00 74.84	O
ATOM	6254	N	GLY	804	43.099	69.362	33.850	1.00 82.38	N
ATOM	6255	CA	GLY	804	42.345	70.516	33.448	1.00 82.38	C
ATOM	6256	C	GLY	804	41.512	70.994	34.563	1.00 82.38	C
ATOM	6257	O	GLY	804	41.317	72.199	34.699	1.00 82.38	O
ATOM	6258	N	LYS	805	40.962	70.074	35.368	1.00128.07	N
ATOM	6259	CA	LYS	805	40.164	70.571	36.433	1.00128.07	C
ATOM	6260	CB	LYS	805	39.510	69.503	37.325	1.00128.07	C
ATOM	6261	CG	LYS	805	38.329	68.792	36.660	1.00128.07	C
ATOM	6262	CD	LYS	805	37.861	67.547	37.415	1.00128.07	C
ATOM	6263	CE	LYS	805	36.881	67.851	38.550	1.00128.07	C
ATOM	6264	NZ	LYS	805	36.484	66.595	39.223	1.00128.07	N
ATOM	6265	C	LYS	805	41.092	71.370	37.287	1.00128.07	C
ATOM	6266	O	LYS	805	40.691	72.397	37.827	1.00128.07	O
ATOM	6267	N	ILE	806	42.357	70.912	37.420	1.00225.33	N
ATOM	6268	CA	ILE	806	43.347	71.613	38.186	1.00225.33	C
ATOM	6269	CB	ILE	806	44.691	70.958	38.327	1.00225.33	C
ATOM	6270	CG1	ILE	806	44.625	69.508	38.777	1.00225.33	C
ATOM	6271	CG2	ILE	806	45.431	71.769	39.396	1.00225.33	C
ATOM	6272	CD1	ILE	806	45.974	68.806	38.627	1.00225.33	C
ATOM	6273	C	ILE	806	43.688	72.905	37.525	1.00225.33	C
ATOM	6274	O	ILE	806	43.904	73.921	38.177	1.00225.33	O
ATOM	6275	N	ALA	807	43.814	72.900	36.195	1.00101.95	N
ATOM	6276	CA	ALA	807	44.224	74.104	35.539	1.00101.95	C
ATOM	6277	CB	ALA	807	44.349	73.950	34.014	1.00101.95	C
ATOM	6278	C	ALA	807	43.148	75.096	35.806	1.00101.95	C
ATOM	6279	O	ALA	807	43.410	76.288	35.952	1.00101.95	O
ATOM	6280	N	THR	808	41.892	74.611	35.820	1.00100.75	N
ATOM	6281	CA	THR	808	40.756	75.433	36.102	1.00100.75	C
ATOM	6282	CB	THR	808	39.446	74.747	35.859	1.00100.75	C
ATOM	6283	OG1	THR	808	39.357	74.335	34.503	1.00100.75	O

ATOM	6284	CG2	THR	808	38.312	75.735	36.184	1.00100.75
ATOM	6285	C	THR	808	40.815	75.805	37.526	1.00100.75
ATOM	6286	O	THR	808	40.416	76.908	37.884	1.00100.75
ATOM	6287	N	GLU	809	41.309	74.889	38.382	1.00177.99
ATOM	6288	CA	GLU	809	41.316	75.254	39.753	1.00177.99
ATOM	6289	CB	GLU	809	41.797	74.174	40.756	1.00177.99
ATOM	6290	CG	GLU	809	43.304	73.925	40.843	1.00177.99
ATOM	6291	CD	GLU	809	43.553	72.906	41.951	1.00177.99
ATOM	6292	OE1	GLU	809	42.590	72.589	42.701	1.00177.99
ATOM	6293	OE2	GLU	809	44.715	72.431	42.062	1.00177.99
ATOM	6294	C	GLU	809	42.178	76.458	39.876	1.00177.99
ATOM	6295	O	GLU	809	41.771	77.416	40.521	1.00177.99
ATOM	6296	N	ALA	810	43.357	76.469	39.224	1.00141.04
ATOM	6297	CA	ALA	810	44.199	77.625	39.325	1.00141.04
ATOM	6298	CB	ALA	810	45.612	77.377	38.767	1.00141.04
ATOM	6299	C	ALA	810	43.628	78.828	38.626	1.00141.04
ATOM	6300	O	ALA	810	43.375	79.850	39.252	1.00141.04
ATOM	6301	N	ILE	811	43.305	78.738	37.325	1.00116.32
ATOM	6302	CA	ILE	811	42.895	79.934	36.640	1.00116.32
ATOM	6303	CB	ILE	811	42.674	79.740	35.174	1.00116.32
ATOM	6304	CG1	ILE	811	41.515	78.767	34.939	1.00116.32
ATOM	6305	CG2	ILE	811	44.007	79.299	34.544	1.00116.32
ATOM	6306	CD1	ILE	811	40.996	78.823	33.511	1.00116.32
ATOM	6307	C	ILE	811	41.607	80.423	37.236	1.00116.32
ATOM	6308	O	ILE	811	41.417	81.624	37.416	1.00116.32
ATOM	6309	N	GLU	812	40.681	79.497	37.553	1.00138.12
ATOM	6310	CA	GLU	812	39.405	79.857	38.101	1.00138.12
ATOM	6311	CB	GLU	812	38.395	78.709	38.259	1.00138.12
ATOM	6312	CG	GLU	812	37.024	79.195	38.738	1.00138.12
ATOM	6313	CD	GLU	812	36.054	78.024	38.704	1.00138.12
ATOM	6314	OE1	GLU	812	36.064	77.218	39.672	1.00138.12
ATOM	6315	OE2	GLU	812	35.291	77.917	37.706	1.00138.12
ATOM	6316	C	GLU	812	39.636	80.435	39.428	1.00138.12
ATOM	6317	O	GLU	812	38.819	81.194	39.941	1.00138.12
ATOM	6318	N	ASN	813	40.735	80.012	40.055	1.00267.15
ATOM	6319	CA	ASN	813	41.033	80.547	41.328	1.00267.15
ATOM	6320	CB	ASN	813	41.360	79.470	42.375	1.00267.15
ATOM	6321	CG	ASN	813	40.081	78.694	42.676	1.00267.15
ATOM	6322	OD1	ASN	813	39.025	79.270	42.932	1.00267.15
ATOM	6323	ND2	ASN	813	40.179	77.338	42.650	1.00267.15
ATOM	6324	C	ASN	813	42.227	81.421	41.169	1.00267.15
ATOM	6325	O	ASN	813	43.296	81.068	41.653	1.00267.15
ATOM	6326	N	PHE	814	42.046	82.674	40.664	1.00211.64
ATOM	6327	CA	PHE	814	43.089	83.660	40.448	1.00211.64
ATOM	6328	CB	PHE	814	42.649	84.974	39.757	1.00211.64
ATOM	6329	CG	PHE	814	41.954	85.895	40.703	1.00211.64
ATOM	6330	CD1	PHE	814	42.681	86.753	41.499	1.00211.64
ATOM	6331	CD2	PHE	814	40.583	85.938	40.779	1.00211.64
ATOM	6332	CE1	PHE	814	42.055	87.608	42.371	1.00211.64
ATOM	6333	CE2	PHE	814	39.946	86.792	41.649	1.00211.64
ATOM	6334	CZ	PHE	814	40.683	87.628	42.452	1.00211.64
ATOM	6335	C	PHE	814	43.612	83.995	41.806	1.00211.64
ATOM	6336	O	PHE	814	44.611	84.691	41.969	1.00211.64
ATOM	6337	N	ARG	815	42.886	83.492	42.815	1.00366.49
ATOM	6338	CA	ARG	815	43.097	83.533	44.211	1.00366.49
ATOM	6339	CB	ARG	815	42.190	82.648	45.093	1.00366.49
ATOM	6340	CG	ARG	815	40.724	83.044	45.246	1.00366.49
ATOM	6341	CD	ARG	815	39.784	82.408	44.227	1.00366.49
ATOM	6342	NE	ARG	815	39.845	83.174	42.960	1.00366.49
ATOM	6343	CZ	ARG	815	38.863	82.963	42.040	1.00366.49
ATOM	6344	NH1	ARG	815	37.888	82.039	42.289	1.00366.49
ATOM	6345	NH2	ARG	815	38.848	83.673	40.877	1.00366.49
ATOM	6346	C	ARG	815	44.461	82.995	44.526	1.00366.49
ATOM	6347	O	ARG	815	44.776	82.801	45.693	1.00366.49
ATOM	6348	N	THR	816	45.156	82.436	43.532	1.00249.14
ATOM	6349	CA	THR	816	46.533	82.050	43.605	1.00249.14
ATOM	6350	CB	THR	816	46.871	81.097	42.505	1.00249.14
ATOM	6351	OG1	THR	816	48.257	80.797	42.529	1.00249.14
ATOM	6352	CG2	THR	816	46.463	81.724	41.161	1.00249.14
ATOM	6353	C	THR	816	47.473	83.210	43.478	1.00249.14
ATOM	6354	O	THR	816	48.341	83.392	44.325	1.00249.14
ATOM	6355	N	VAL	817	47.272	84.095	42.466	1.00212.03
ATOM	6356	CA	VAL	817	48.150	85.196	42.156	1.00212.03
ATOM	6357	CB	VAL	817	47.765	86.017	40.963	1.00212.03

ATOM	6358	CG1	VAL	817	47.583	85.061	39.784	1.00212.03
ATOM	6359	CG2	VAL	817	46.563	86.910	41.284	1.00212.03
ATOM	6360	C	VAL	817	48.073	86.061	43.346	1.00212.03
ATOM	6361	O	VAL	817	48.917	86.925	43.573	1.00212.03
ATOM	6362	N	VAL	818	46.994	85.861	44.115	1.00215.26
ATOM	6363	CA	VAL	818	46.852	86.598	45.303	1.00215.26
ATOM	6364	CB	VAL	818	45.632	86.286	46.126	1.00215.26
ATOM	6365	CG1	VAL	818	45.829	84.987	46.913	1.00215.26
ATOM	6366	CG2	VAL	818	45.369	87.502	47.025	1.00215.26
ATOM	6367	C	VAL	818	48.081	86.379	46.128	1.00215.26
ATOM	6368	O	VAL	818	48.576	87.334	46.713	1.00215.26
ATOM	6369	N	SER	819	48.554	85.121	46.268	1.00154.90
ATOM	6370	CA	SER	819	49.763	84.784	46.970	1.00154.90
ATOM	6371	CB	SER	819	49.690	83.365	47.553	1.00154.90
ATOM	6372	OG	SER	819	48.536	83.237	48.369	1.00154.90
ATOM	6373	C	SER	819	50.946	84.793	46.035	1.00154.90
ATOM	6374	O	SER	819	52.043	85.214	46.394	1.00154.90
ATOM	6375	N	LEU	820	50.750	84.251	44.815	1.00174.65
ATOM	6376	CA	LEU	820	51.738	84.139	43.773	1.00174.65
ATOM	6377	CB	LEU	820	52.294	85.542	43.420	1.00174.65
ATOM	6378	CG	LEU	820	53.372	85.672	42.323	1.00174.65
ATOM	6379	CD1	LEU	820	53.442	87.126	41.829	1.00174.65
ATOM	6380	CD2	LEU	820	54.765	85.250	42.822	1.00174.65
ATOM	6381	C	LEU	820	52.794	83.160	44.210	1.00174.65
ATOM	6382	O	LEU	820	53.715	82.818	43.470	1.00174.65
ATOM	6383	N	THR	821	52.586	82.583	45.402	1.00182.29
ATOM	6384	CA	THR	821	53.466	81.665	46.059	1.00182.29
ATOM	6385	CB	THR	821	53.121	81.453	47.510	1.00182.29
ATOM	6386	OG1	THR	821	51.762	81.068	47.651	1.00182.29
ATOM	6387	CG2	THR	821	53.402	82.752	48.284	1.00182.29
ATOM	6388	C	THR	821	53.592	80.311	45.368	1.00182.29
ATOM	6389	O	THR	821	54.331	79.492	45.905	1.00182.29
ATOM	6390	N	GLN	822	52.689	79.918	44.421	1.00203.12
ATOM	6391	CA	GLN	822	52.726	78.711	43.589	1.00203.12
ATOM	6392	CB	GLN	822	51.351	78.031	43.573	1.00203.12
ATOM	6393	CG	GLN	822	50.268	78.905	42.939	1.00203.12
ATOM	6394	CD	GLN	822	48.953	78.144	42.989	1.00203.12
ATOM	6395	OE1	GLN	822	48.188	78.140	42.025	1.00203.12
ATOM	6396	NE2	GLN	822	48.668	77.498	44.151	1.00203.12
ATOM	6397	C	GLN	822	53.192	78.790	42.137	1.00203.12
ATOM	6398	O	GLN	822	53.757	77.832	41.607	1.00203.12
ATOM	6399	N	GLU	823	52.871	79.901	41.433	1.00274.28
ATOM	6400	CA	GLU	823	53.043	80.177	40.016	1.00274.28
ATOM	6401	CB	GLU	823	54.070	81.293	39.753	1.00274.28
ATOM	6402	CG	GLU	823	53.752	82.621	40.457	1.00274.28
ATOM	6403	CD	GLU	823	52.353	83.110	40.081	1.00274.28
ATOM	6404	OE1	GLU	823	51.376	82.331	40.242	1.00274.28
ATOM	6405	OE2	GLU	823	52.241	84.289	39.653	1.00274.28
ATOM	6406	C	GLU	823	53.402	78.983	39.161	1.00274.28
ATOM	6407	O	GLU	823	52.620	78.055	38.933	1.00274.28
ATOM	6408	N	GLN	824	54.630	79.014	38.621	1.00113.30
ATOM	6409	CA	GLN	824	55.068	77.978	37.737	1.00113.30
ATOM	6410	CB	GLN	824	56.527	78.157	37.286	1.00113.30
ATOM	6411	CG	GLN	824	56.947	77.168	36.199	1.00113.30
ATOM	6412	CD	GLN	824	56.229	77.566	34.918	1.00113.30
ATOM	6413	OE1	GLN	824	56.456	78.645	34.372	1.00113.30
ATOM	6414	NE2	GLN	824	55.329	76.674	34.425	1.00113.30
ATOM	6415	C	GLN	824	54.972	76.687	38.466	1.00113.30
ATOM	6416	O	GLN	824	54.582	75.681	37.872	1.00113.30
ATOM	6417	N	LYS	825	55.264	76.712	39.784	1.00150.62
ATOM	6418	CA	LYS	825	55.247	75.526	40.592	1.00150.62
ATOM	6419	CB	LYS	825	55.509	75.807	42.086	1.00150.62
ATOM	6420	CG	LYS	825	55.475	74.593	43.013	1.00150.62
ATOM	6421	CD	LYS	825	54.080	73.993	43.180	1.00150.62
ATOM	6422	CE	LYS	825	54.004	72.947	44.293	1.00150.62
ATOM	6423	NZ	LYS	825	52.592	72.684	44.646	1.00150.62
ATOM	6424	C	LYS	825	53.904	74.914	40.377	1.00150.62
ATOM	6425	O	LYS	825	53.750	73.693	40.356	1.00150.62
ATOM	6426	N	PHE	826	52.888	75.769	40.190	1.00190.42
ATOM	6427	CA	PHE	826	51.567	75.269	39.981	1.00190.42
ATOM	6428	CB	PHE	826	50.563	76.416	40.157	1.00190.42
ATOM	6429	CG	PHE	826	49.397	75.873	40.900	1.00190.42
ATOM	6430	CD1	PHE	826	49.598	75.385	42.171	1.00190.42
ATOM	6431	CD2	PHE	826	48.139	75.812	40.353	1.00190.42

ATOM	6432	CE1	PHE	826	48.563	74.869	42.909	1.00190.42	C
ATOM	6433	CE2	PHE	826	47.099	75.301	41.092	1.00190.42	C
ATOM	6434	CZ	PHE	826	47.305	74.832	42.366	1.00190.42	C
ATOM	6435	C	PHE	826	51.353	74.576	38.657	1.00190.42	C
ATOM	6436	O	PHE	826	51.216	73.354	38.612	1.00190.42	O
ATOM	6437	N	GLU	827	51.472	75.311	37.528	1.00151.67	N
ATOM	6438	CA	GLU	827	51.180	74.775	36.214	1.00151.67	C
ATOM	6439	CB	GLU	827	51.411	75.796	35.083	1.00151.67	C
ATOM	6440	CG	GLU	827	50.463	77.003	35.132	1.00151.67	C
ATOM	6441	CD	GLU	827	49.078	76.569	34.668	1.00151.67	C
ATOM	6442	OE1	GLU	827	48.932	75.381	34.282	1.00151.67	O
ATOM	6443	OE2	GLU	827	48.148	77.420	34.694	1.00151.67	O
ATOM	6444	C	GLU	827	52.120	73.639	36.035	1.00151.67	C
ATOM	6445	O	GLU	827	51.871	72.713	35.261	1.00151.67	O
ATOM	6446	N	HIS	828	53.248	73.719	36.761	1.00109.64	N
ATOM	6447	CA	HIS	828	54.276	72.729	36.719	1.00109.64	C
ATOM	6448	ND1	HIS	828	56.570	70.867	38.263	1.00109.64	N
ATOM	6449	CG	HIS	828	56.562	72.056	37.568	1.00109.64	C
ATOM	6450	CB	HIS	828	55.455	73.065	37.645	1.00109.64	C
ATOM	6451	NE2	HIS	828	58.452	70.923	37.080	1.00109.64	N
ATOM	6452	CD2	HIS	828	57.718	72.073	36.850	1.00109.64	C
ATOM	6453	CE1	HIS	828	57.721	70.229	37.935	1.00109.64	C
ATOM	6454	C	HIS	828	53.731	71.411	37.160	1.00109.64	C
ATOM	6455	O	HIS	828	53.979	70.391	36.517	1.00109.64	O
ATOM	6456	N	MET	829	52.936	71.400	38.247	1.00101.55	N
ATOM	6457	CA	MET	829	52.417	70.153	38.731	1.00101.55	C
ATOM	6458	CB	MET	829	51.476	70.309	39.936	1.00101.55	C
ATOM	6459	CG	MET	829	52.183	70.774	41.208	1.00101.55	C
ATOM	6460	SD	MET	829	51.090	70.950	42.651	1.00101.55	S
ATOM	6461	CE	MET	829	50.335	72.511	42.116	1.00101.55	C
ATOM	6462	C	MET	829	51.610	69.574	37.611	1.00101.55	C
ATOM	6463	O	MET	829	51.581	68.363	37.392	1.00101.55	O
ATOM	6464	N	TYR	830	50.937	70.450	36.854	1.00186.26	N
ATOM	6465	CA	TYR	830	50.115	70.025	35.753	1.00186.26	C
ATOM	6466	CB	TYR	830	49.415	71.153	34.996	1.00186.26	C
ATOM	6467	CG	TYR	830	48.589	71.928	35.939	1.00186.26	C
ATOM	6468	CD1	TYR	830	49.218	72.691	36.879	1.00186.26	C
ATOM	6469	CD2	TYR	830	47.223	71.928	35.883	1.00186.26	C
ATOM	6470	CE1	TYR	830	48.533	73.459	37.779	1.00186.26	C
ATOM	6471	CE2	TYR	830	46.534	72.697	36.783	1.00186.26	C
ATOM	6472	CZ	TYR	830	47.169	73.462	37.722	1.00186.26	C
ATOM	6473	OH	TYR	830	46.421	74.243	38.622	1.00186.26	O
ATOM	6474	C	TYR	830	50.972	69.422	34.702	1.00186.26	C
ATOM	6475	O	TYR	830	50.523	68.539	33.974	1.00186.26	O
ATOM	6476	N	ALA	831	52.208	69.931	34.546	1.00 62.24	N
ATOM	6477	CA	ALA	831	53.026	69.442	33.474	1.00 62.24	C
ATOM	6478	CB	ALA	831	54.437	70.053	33.466	1.00 62.24	C
ATOM	6479	C	ALA	831	53.175	67.969	33.661	1.00 62.24	C
ATOM	6480	O	ALA	831	53.151	67.203	32.697	1.00 62.24	O
ATOM	6481	N	GLN	832	53.328	67.537	34.922	1.00 66.80	N
ATOM	6482	CA	GLN	832	53.491	66.139	35.187	1.00 66.80	C
ATOM	6483	CB	GLN	832	53.783	65.858	36.668	1.00 66.80	C
ATOM	6484	CG	GLN	832	55.054	66.540	37.168	1.00 66.80	C
ATOM	6485	CD	GLN	832	56.209	66.017	36.331	1.00 66.80	C
ATOM	6486	OE1	GLN	832	56.347	66.359	35.157	1.00 66.80	O
ATOM	6487	OE2	GLN	832	57.062	65.158	36.950	1.00 66.80	N
ATOM	6488	C	GLN	832	52.238	65.395	34.856	1.00 66.80	C
ATOM	6489	O	GLN	832	52.268	64.346	34.214	1.00 66.80	O
ATOM	6490	N	SER	833	51.087	65.948	35.262	1.00102.32	N
ATOM	6491	CA	SER	833	49.838	65.266	35.096	1.00102.32	C
ATOM	6492	CB	SER	833	48.657	66.166	35.478	1.00102.32	C
ATOM	6493	OG	SER	833	48.921	66.782	36.728	1.00102.32	O
ATOM	6494	C	SER	833	49.673	64.967	33.652	1.00102.32	C
ATOM	6495	O	SER	833	49.486	63.818	33.267	1.00102.32	O
ATOM	6496	N	LEU	834	49.852	65.987	32.802	1.00128.23	N
ATOM	6497	CA	LEU	834	49.611	65.814	31.403	1.00128.23	C
ATOM	6498	CB	LEU	834	49.921	67.066	30.555	1.00128.23	C
ATOM	6499	CG	LEU	834	48.862	68.190	30.592	1.00128.23	C
ATOM	6500	CD1	LEU	834	47.569	67.750	29.889	1.00128.23	C
ATOM	6501	CD2	LEU	834	48.615	68.719	32.012	1.00128.23	C
ATOM	6502	C	LEU	834	50.461	64.718	30.868	1.00128.23	C
ATOM	6503	O	LEU	834	49.958	63.901	30.097	1.00128.23	O
ATOM	6504	N	GLN	835	51.730	64.624	31.318	1.00112.17	N
ATOM	6505	CA	GLN	835	52.645	63.714	30.684	1.00112.17	C



ATOM	6506	CB	GLN	835	54.026	63.633	31.358	1.00112.17	C
ATOM	6507	CG	GLN	835	54.033	62.916	32.707	1.00112.17	C
ATOM	6508	CD	GLN	835	55.401	63.110	33.343	1.00112.17	C
ATOM	6509	OE1	GLN	835	56.310	63.670	32.732	1.00112.17	O
ATOM	6510	NE2	GLN	835	55.554	62.642	34.611	1.00112.17	N
ATOM	6511	C	GLN	835	52.081	62.323	30.687	1.00112.17	C
ATOM	6512	O	GLN	835	52.116	61.647	29.659	1.00112.17	O
ATOM	6513	N	VAL	836	51.507	61.862	31.815	1.00 58.98	N
ATOM	6514	CA	VAL	836	50.999	60.516	31.805	1.00 58.98	C
ATOM	6515	CB	VAL	836	50.590	60.021	33.167	1.00 58.98	C
ATOM	6516	CG1	VAL	836	50.019	58.600	33.028	1.00 58.98	C
ATOM	6517	CG2	VAL	836	51.804	60.113	34.106	1.00 58.98	C
ATOM	6518	C	VAL	836	49.844	60.374	30.843	1.00 58.98	C
ATOM	6519	O	VAL	836	49.869	59.479	29.998	1.00 58.98	O
ATOM	6520	N	PRO	837	48.840	61.212	30.872	1.00 94.39	N
ATOM	6521	CA	PRO	837	47.804	61.002	29.904	1.00 94.39	C
ATOM	6522	CD	PRO	837	48.239	61.595	32.139	1.00 94.39	C
ATOM	6523	CB	PRO	837	46.629	61.866	30.342	1.00 94.39	C
ATOM	6524	CG	PRO	837	46.739	61.809	31.873	1.00 94.39	C
ATOM	6525	C	PRO	837	48.270	61.204	28.504	1.00 94.39	C
ATOM	6526	O	PRO	837	47.529	60.857	27.586	1.00 94.39	O
ATOM	6527	N	TYR	838	49.453	61.811	28.311	1.00148.20	N
ATOM	6528	CA	TYR	838	49.955	62.027	26.984	1.00148.20	C
ATOM	6529	CB	TYR	838	51.168	62.984	27.011	1.00148.20	C
ATOM	6530	CG	TYR	838	51.569	63.367	25.627	1.00148.20	C
ATOM	6531	CD1	TYR	838	50.827	64.284	24.917	1.00148.20	C
ATOM	6532	CD2	TYR	838	52.675	62.810	25.030	1.00148.20	C
ATOM	6533	CE1	TYR	838	51.186	64.646	23.639	1.00148.20	C
ATOM	6534	CE2	TYR	838	53.039	63.170	23.753	1.00148.20	C
ATOM	6535	CZ	TYR	838	52.296	64.090	23.054	1.00148.20	C
ATOM	6536	OH	TYR	838	52.670	64.458	21.743	1.00148.20	O
ATOM	6537	C	TYR	838	50.332	60.712	26.362	1.00148.20	C
ATOM	6538	O	TYR	838	49.921	60.403	25.244	1.00148.20	O
ATOM	6539	N	ARG	839	51.095	59.868	27.086	1.00150.09	N
ATOM	6540	CA	ARG	839	51.491	58.624	26.483	1.00150.09	C
ATOM	6541	CB	ARG	839	52.462	57.795	27.342	1.00150.09	C
ATOM	6542	CG	ARG	839	53.909	58.289	27.261	1.00150.09	C
ATOM	6543	CD	ARG	839	54.146	59.659	27.895	1.00150.09	C
ATOM	6544	NE	ARG	839	54.156	59.464	29.371	1.00150.09	N
ATOM	6545	CZ	ARG	839	54.970	60.230	30.153	1.00150.09	C
ATOM	6546	NH1	ARG	839	55.772	61.176	29.585	1.00150.09	N
ATOM	6547	NH2	ARG	839	54.986	60.046	31.505	1.00150.09	N
ATOM	6548	C	ARG	839	50.265	57.810	26.231	1.00150.09	C
ATOM	6549	O	ARG	839	50.102	57.199	25.174	1.00150.09	O
ATOM	6550	N	ASN	840	49.341	57.834	27.200	1.00 69.69	N
ATOM	6551	CA	ASN	840	48.125	57.082	27.123	1.00 69.69	C
ATOM	6552	CB	ASN	840	47.220	57.363	28.335	1.00 69.69	C
ATOM	6553	CG	ASN	840	45.848	56.758	28.085	1.00 69.69	C
ATOM	6554	OD1	ASN	840	44.972	57.405	27.513	1.00 69.69	O
ATOM	6555	ND2	ASN	840	45.654	55.486	28.519	1.00 69.69	N
ATOM	6556	C	ASN	840	47.373	57.491	25.895	1.00 69.69	C
ATOM	6557	O	ASN	840	46.735	56.658	25.249	1.00 69.69	O
ATOM	6558	N	SER	841	47.424	58.788	25.539	1.00 51.76	N
ATOM	6559	CA	SER	841	46.652	59.262	24.422	1.00 51.76	C
ATOM	6560	CB	SER	841	46.722	60.787	24.213	1.00 51.76	C
ATOM	6561	OG	SER	841	47.996	61.167	23.716	1.00 51.76	O
ATOM	6562	C	SER	841	47.101	58.612	23.156	1.00 51.76	C
ATOM	6563	O	SER	841	46.276	58.241	22.325	1.00 51.76	O
ATOM	6564	N	LEU	842	48.419	58.421	22.981	1.00 47.27	N
ATOM	6565	CA	LEU	842	48.881	57.874	21.740	1.00 47.27	C
ATOM	6566	CB	LEU	842	50.409	57.702	21.701	1.00 47.27	C
ATOM	6567	CG	LEU	842	51.178	59.031	21.818	1.00 47.27	C
ATOM	6568	CD1	LEU	842	52.697	58.805	21.765	1.00 47.27	C
ATOM	6569	CD2	LEU	842	50.692	60.052	20.777	1.00 47.27	C
ATOM	6570	C	LEU	842	48.269	56.522	21.543	1.00 47.27	C
ATOM	6571	O	LEU	842	47.810	56.196	20.448	1.00 47.27	O
ATOM	6572	N	ARG	843	48.227	55.696	22.604	1.00127.18	N
ATOM	6573	CA	ARG	843	47.713	54.365	22.444	1.00127.18	C
ATOM	6574	CB	ARG	843	47.777	53.552	23.749	1.00127.18	C
ATOM	6575	CG	ARG	843	47.344	52.096	23.576	1.00127.18	C
ATOM	6576	CD	ARG	843	48.335	51.265	22.757	1.00127.18	C
ATOM	6577	NE	ARG	843	49.441	50.857	23.668	1.00127.18	N
ATOM	6578	CZ	ARG	843	50.570	50.281	23.160	1.00127.18	C
ATOM	6579	NH1	ARG	843	50.701	50.105	21.812	1.00127.18	N

ATOM	6580	NH2	ARG	843	51.567	49.875	23.998	1.00127.18	N
ATOM	6581	C	ARG	843	46.278	54.424	22.019	1.00127.18	C
ATOM	6582	O	ARG	843	45.887	53.820	21.021	1.00127.18	O
ATOM	6583	N	LYS	844	45.466	55.228	22.725	1.00133.48	N
ATOM	6584	CA	LYS	844	44.057	55.299	22.460	1.00133.48	C
ATOM	6585	CB	LYS	844	43.313	56.247	23.414	1.00133.48	C
ATOM	6586	CG	LYS	844	43.802	57.694	23.383	1.00133.48	C
ATOM	6587	CD	LYS	844	42.868	58.653	24.123	1.00133.48	C
ATOM	6588	CE	LYS	844	43.431	60.066	24.271	1.00133.48	C
ATOM	6589	NZ	LYS	844	43.421	60.751	22.961	1.00133.48	N
ATOM	6590	C	LYS	844	43.863	55.771	21.063	1.00133.48	C
ATOM	6591	O	LYS	844	42.827	55.499	20.461	1.00133.48	O
ATOM	6592	N	ALA	845	44.833	56.524	20.516	1.00 60.59	N
ATOM	6593	CA	ALA	845	44.684	56.952	19.156	1.00 60.59	C
ATOM	6594	CB	ALA	845	45.953	57.642	18.638	1.00 60.59	C
ATOM	6595	C	ALA	845	44.548	55.699	18.355	1.00 60.59	C
ATOM	6596	O	ALA	845	43.584	55.511	17.614	1.00 60.59	O
ATOM	6597	N	HIS	846	45.457	54.747	18.606	1.00 66.86	N
ATOM	6598	CA	HIS	846	45.469	53.507	17.893	1.00 66.86	C
ATOM	6599	ND1	HIS	846	45.348	50.253	18.534	1.00 66.86	N
ATOM	6600	CG	HIS	846	46.302	51.102	18.017	1.00 66.86	C
ATOM	6601	CB	HIS	846	46.485	52.516	18.491	1.00 66.86	C
ATOM	6602	NE2	HIS	846	46.447	49.099	16.986	1.00 66.86	N
ATOM	6603	CD2	HIS	846	46.964	50.380	17.073	1.00 66.86	C
ATOM	6604	CE1	HIS	846	45.479	49.071	17.883	1.00 66.86	C
ATOM	6605	C	HIS	846	44.133	52.855	18.028	1.00 66.86	C
ATOM	6606	O	HIS	846	43.557	52.404	17.039	1.00 66.86	O
ATOM	6607	N	ILE	847	43.575	52.823	19.250	1.00148.38	N
ATOM	6608	CA	ILE	847	42.359	52.087	19.450	1.00148.38	C
ATOM	6609	CB	ILE	847	41.919	52.030	20.894	1.00148.38	C
ATOM	6610	CG1	ILE	847	40.952	50.856	21.131	1.00148.38	C
ATOM	6611	CG2	ILE	847	41.303	53.381	21.282	1.00148.38	C
ATOM	6612	CD1	ILE	847	39.609	50.998	20.419	1.00148.38	C
ATOM	6613	C	ILE	847	41.249	52.652	18.611	1.00148.38	C
ATOM	6614	O	ILE	847	40.504	51.897	17.987	1.00148.38	O
ATOM	6615	N	PHE	848	41.123	53.992	18.529	1.00124.51	N
ATOM	6616	CA	PHE	848	40.034	54.565	17.786	1.00124.51	C
ATOM	6617	CB	PHE	848	40.010	56.108	17.773	1.00124.51	C
ATOM	6618	CG	PHE	848	39.611	56.579	19.131	1.00124.51	C
ATOM	6619	CD1	PHE	848	38.285	56.620	19.496	1.00124.51	C
ATOM	6620	CD2	PHE	848	40.556	56.968	20.049	1.00124.51	C
ATOM	6621	CE1	PHE	848	37.914	57.048	20.749	1.00124.51	C
ATOM	6622	CE2	PHE	848	40.195	57.397	21.303	1.00124.51	C
ATOM	6623	CZ	PHE	848	38.869	57.439	21.656	1.00124.51	C
ATOM	6624	C	PHE	848	40.144	54.093	16.385	1.00124.51	C
ATOM	6625	O	PHE	848	39.140	53.790	15.742	1.00124.51	O
ATOM	6626	N	GLY	849	41.377	54.023	15.865	1.00 51.91	N
ATOM	6627	CA	GLY	849	41.487	53.612	14.503	1.00 51.91	C
ATOM	6628	C	GLY	849	40.966	52.218	14.324	1.00 51.91	C
ATOM	6629	O	GLY	849	40.071	51.998	13.511	1.00 51.91	O
ATOM	6630	N	ILE	850	41.433	51.254	15.139	1.00 54.35	N
ATOM	6631	CA	ILE	850	41.089	49.879	14.897	1.00 54.35	C
ATOM	6632	CB	ILE	850	41.709	48.941	15.891	1.00 54.35	C
ATOM	6633	CG1	ILE	850	41.466	47.485	15.467	1.00 54.35	C
ATOM	6634	CG2	ILE	850	41.194	49.300	17.294	1.00 54.35	C
ATOM	6635	CD1	ILE	850	42.330	46.480	16.226	1.00 54.35	C
ATOM	6636	C	ILE	850	39.606	49.720	14.941	1.00 54.35	C
ATOM	6637	O	ILE	850	39.023	49.073	14.072	1.00 54.35	O
ATOM	6638	N	THR	851	38.944	50.338	15.929	1.00 65.61	N
ATOM	6639	CA	THR	851	37.525	50.162	16.011	1.00 65.61	C
ATOM	6640	CB	THR	851	36.924	50.883	17.179	1.00 65.61	C
ATOM	6641	OG1	THR	851	37.208	52.272	17.094	1.00 65.61	O
ATOM	6642	CG2	THR	851	37.505	50.297	18.476	1.00 65.61	C
ATOM	6643	C	THR	851	36.861	50.673	14.768	1.00 65.61	C
ATOM	6644	O	THR	851	36.164	49.927	14.085	1.00 65.61	O
ATOM	6645	N	PHE	852	37.143	51.930	14.382	1.00117.15	N
ATOM	6646	CA	PHE	852	36.470	52.549	13.268	1.00117.15	C
ATOM	6647	CB	PHE	852	37.019	53.965	12.999	1.00117.15	C
ATOM	6648	CG	PHE	852	36.596	54.471	11.660	1.00117.15	C
ATOM	6649	CD1	PHE	852	35.275	54.719	11.366	1.00117.15	C
ATOM	6650	CD2	PHE	852	37.540	54.670	10.677	1.00117.15	C
ATOM	6651	CE1	PHE	852	34.911	55.185	10.123	1.00117.15	C
ATOM	6652	CE2	PHE	852	37.183	55.137	9.434	1.00117.15	C
ATOM	6653	CZ	PHE	852	35.864	55.399	9.154	1.00117.15	C

ATOM	6654	C	PHE	852	36.619	51.694	12.051	1.00117.15
ATOM	6655	O	PHE	852	35.636	51.412	11.363	1.00117.15
ATOM	6656	N	SER	853	37.844	51.209	11.793	1.00 56.38
ATOM	6657	CA	SER	853	38.084	50.415	10.626	1.00 56.38
ATOM	6658	CB	SER	853	39.535	49.917	10.545	1.00 56.38
ATOM	6659	OG	SER	853	39.797	49.018	11.612	1.00 56.38
ATOM	6660	C	SER	853	37.204	49.206	10.658	1.00 56.38
ATOM	6661	O	SER	853	36.501	48.926	9.691	1.00 56.38
ATOM	6662	N	PHE	854	37.138	48.517	11.809	1.00113.97
ATOM	6663	CA	PHE	854	36.403	47.287	11.940	1.00113.97
ATOM	6664	CB	PHE	854	36.355	46.776	13.393	1.00113.97
ATOM	6665	CG	PHE	854	35.501	45.553	13.436	1.00113.97
ATOM	6666	CD1	PHE	854	34.138	45.663	13.601	1.00113.97
ATOM	6667	CD2	PHE	854	36.056	44.300	13.313	1.00113.97
ATOM	6668	CE1	PHE	854	33.341	44.543	13.643	1.00113.97
ATOM	6669	CE2	PHE	854	35.264	43.176	13.353	1.00113.97
ATOM	6670	CZ	PHE	854	33.905	43.296	13.518	1.00113.97
ATOM	6671	C	PHE	854	35.002	47.553	11.503	1.00113.97
ATOM	6672	O	PHE	854	34.334	46.678	10.956	1.00113.97
ATOM	6673	N	THR	855	34.511	48.774	11.757	1.00 50.56
ATOM	6674	CA	THR	855	33.176	49.104	11.358	1.00 50.56
ATOM	6675	CB	THR	855	32.789	50.493	11.768	1.00 50.56
ATOM	6676	OG1	THR	855	32.924	50.641	13.173	1.00 50.56
ATOM	6677	CG2	THR	855	31.328	50.740	11.354	1.00 50.56
ATOM	6678	C	THR	855	33.062	49.025	9.863	1.00 50.56
ATOM	6679	O	THR	855	32.114	48.448	9.334	1.00 50.56
ATOM	6680	N	GLN	856	34.035	49.607	9.141	1.00 80.93
ATOM	6681	CA	GLN	856	34.030	49.652	7.704	1.00 80.93
ATOM	6682	CB	GLN	856	35.119	50.581	7.157	1.00 80.93
ATOM	6683	CG	GLN	856	35.036	51.986	7.759	1.00 80.93
ATOM	6684	CD	GLN	856	33.569	52.386	7.850	1.00 80.93
ATOM	6685	OE1	GLN	856	32.832	51.902	8.709	1.00 80.93
ATOM	6686	NE2	GLN	856	33.128	53.302	6.948	1.00 80.93
ATOM	6687	C	GLN	856	34.237	48.280	7.144	1.00 80.93
ATOM	6688	O	GLN	856	33.734	47.950	6.072	1.00 80.93
ATOM	6689	N	ALA	857	35.025	47.445	7.840	1.00 45.11
ATOM	6690	CA	ALA	857	35.238	46.110	7.375	1.00 45.11
ATOM	6691	CB	ALA	857	36.145	45.285	8.305	1.00 45.11
ATOM	6692	C	ALA	857	33.890	45.482	7.359	1.00 45.11
ATOM	6693	O	ALA	857	33.554	44.727	6.450	1.00 45.11
ATOM	6694	N	MET	858	33.055	45.826	8.352	1.00 58.64
ATOM	6695	CA	MET	858	31.737	45.278	8.398	1.00 58.64
ATOM	6696	CB	MET	858	30.872	45.834	9.539	1.00 58.64
ATOM	6697	CG	MET	858	31.296	45.331	10.916	1.00 58.64
ATOM	6698	SD	MET	858	31.002	43.557	11.170	1.00 58.64
ATOM	6699	CE	MET	858	29.208	43.738	11.381	1.00 58.64
ATOM	6700	C	MET	858	31.084	45.683	7.122	1.00 58.64
ATOM	6701	O	MET	858	30.304	44.925	6.552	1.00 58.64
ATOM	6702	N	MET	859	31.416	46.884	6.619	1.00139.11
ATOM	6703	CA	MET	859	30.784	47.350	5.419	1.00139.11
ATOM	6704	CB	MET	859	31.375	48.664	4.888	1.00139.11
ATOM	6705	CG	MET	859	30.896	48.997	3.476	1.00139.11
ATOM	6706	SD	MET	859	31.748	50.403	2.702	1.00139.11
ATOM	6707	CE	MET	859	33.334	49.571	2.410	1.00139.11
ATOM	6708	C	MET	859	30.953	46.361	4.307	1.00139.11
ATOM	6709	O	MET	859	29.958	45.896	3.753	1.00139.11
ATOM	6710	N	TYR	860	32.199	45.975	3.970	1.00 85.03
ATOM	6711	CA	TYR	860	32.362	45.097	2.848	1.00 85.03
ATOM	6712	CB	TYR	860	33.806	44.950	2.334	1.00 85.03
ATOM	6713	CG	TYR	860	34.622	44.042	3.188	1.00 85.03
ATOM	6714	CD1	TYR	860	35.261	44.487	4.322	1.00 85.03
ATOM	6715	CD2	TYR	860	34.759	42.724	2.820	1.00 85.03
ATOM	6716	CE1	TYR	860	36.023	43.625	5.077	1.00 85.03
ATOM	6717	CE2	TYR	860	35.516	41.857	3.568	1.00 85.03
ATOM	6718	CZ	TYR	860	36.151	42.309	4.698	1.00 85.03
ATOM	6719	OH	TYR	860	36.933	41.420	5.464	1.00 85.03
ATOM	6720	C	TYR	860	31.831	43.747	3.185	1.00 85.03
ATOM	6721	O	TYR	860	31.166	43.130	2.355	1.00 85.03
ATOM	6722	N	PHE	861	32.083	43.272	4.425	1.00131.89
ATOM	6723	CA	PHE	861	31.650	41.957	4.812	1.00131.89
ATOM	6724	CB	PHE	861	31.736	41.650	6.323	1.00131.89
ATOM	6725	CG	PHE	861	33.090	41.235	6.789	1.00131.89
ATOM	6726	CD1	PHE	861	33.434	39.902	6.778	1.00131.89
ATOM	6727	CD2	PHE	861	34.003	42.149	7.259	1.00131.89

ATOM	6728	CE1	PHE	861	34.672	39.493	7.215	1.00131.89	C
ATOM	6729	CE2	PHE	861	35.243	41.746	7.698	1.00131.89	C
ATOM	6730	CZ	PHE	861	35.581	40.414	7.676	1.00131.89	C
ATOM	6731	C	PHE	861	30.189	41.871	4.559	1.00131.89	C
ATOM	6732	O	PHE	861	29.727	40.949	3.889	1.00131.89	O
ATOM	6733	N	SER	862	29.433	42.867	5.054	1.00108.47	N
ATOM	6734	CA	SER	862	28.016	42.789	4.929	1.00108.47	C
ATOM	6735	CB	SER	862	27.261	43.959	5.596	1.00108.47	C
ATOM	6736	OG	SER	862	27.587	45.202	4.995	1.00108.47	O
ATOM	6737	C	SER	862	27.635	42.704	3.484	1.00108.47	C
ATOM	6738	O	SER	862	27.022	41.726	3.069	1.00108.47	O
ATOM	6739	N	TYR	863	28.055	43.670	2.649	1.00 64.34	N
ATOM	6740	CA	TYR	863	27.569	43.671	1.297	1.00 64.34	C
ATOM	6741	CB	TYR	863	28.117	44.830	0.446	1.00 64.34	C
ATOM	6742	CG	TYR	863	27.504	46.101	0.923	1.00 64.34	C
ATOM	6743	CD1	TYR	863	28.092	46.842	1.922	1.00 64.34	C
ATOM	6744	CD2	TYR	863	26.330	46.549	0.363	1.00 64.34	C
ATOM	6745	CE1	TYR	863	27.519	48.015	2.353	1.00 64.34	C
ATOM	6746	CE2	TYR	863	25.752	47.721	0.790	1.00 64.34	C
ATOM	6747	CZ	TYR	863	26.347	48.456	1.786	1.00 64.34	C
ATOM	6748	OH	TYR	863	25.756	49.660	2.224	1.00 64.34	O
ATOM	6749	C	TYR	863	27.930	42.409	0.576	1.00 64.34	C
ATOM	6750	O	TYR	863	27.055	41.754	0.010	1.00 64.34	O
ATOM	6751	N	ALA	864	29.208	41.995	0.631	1.00 50.06	N
ATOM	6752	CA	ALA	864	29.648	40.885	-0.163	1.00 50.06	C
ATOM	6753	CB	ALA	864	31.118	40.540	0.083	1.00 50.06	C
ATOM	6754	C	ALA	864	28.889	39.651	0.178	1.00 50.06	C
ATOM	6755	O	ALA	864	28.349	38.987	-0.706	1.00 50.06	O
ATOM	6756	N	GLY	865	28.778	39.338	1.478	1.00 25.43	N
ATOM	6757	CA	GLY	865	28.142	38.112	1.849	1.00 25.43	C
ATOM	6758	C	GLY	865	26.744	38.159	1.341	1.00 25.43	C
ATOM	6759	O	GLY	865	26.237	37.174	0.807	1.00 25.43	O
ATOM	6760	N	CYS	866	26.096	39.329	1.470	1.00 57.03	N
ATOM	6761	CA	CYS	866	24.726	39.424	1.077	1.00 57.03	C
ATOM	6762	CB	CYS	866	24.143	40.822	1.325	1.00 57.03	C
ATOM	6763	SG	CYS	866	24.137	41.259	3.090	1.00 57.03	S
ATOM	6764	C	CYS	866	24.554	39.110	-0.382	1.00 57.03	C
ATOM	6765	O	CYS	866	23.896	38.136	-0.741	1.00 57.03	O
ATOM	6766	N	PHE	867	25.218	39.866	-1.270	1.00 75.42	N
ATOM	6767	CA	PHE	867	25.003	39.682	-2.679	1.00 75.42	C
ATOM	6768	CB	PHE	867	25.810	40.659	-3.554	1.00 75.42	C
ATOM	6769	CG	PHE	867	25.197	42.014	-3.431	1.00 75.42	C
ATOM	6770	CD1	PHE	867	24.148	42.383	-4.243	1.00 75.42	C
ATOM	6771	CD2	PHE	867	25.670	42.917	-2.508	1.00 75.42	C
ATOM	6772	CE1	PHE	867	23.579	43.630	-4.136	1.00 75.42	C
ATOM	6773	CE2	PHE	867	25.105	44.165	-2.397	1.00 75.42	C
ATOM	6774	CZ	PHE	867	24.058	44.525	-3.210	1.00 75.42	C
ATOM	6775	C	PHE	867	25.400	38.292	-3.055	1.00 75.42	C
ATOM	6776	O	PHE	867	24.762	37.666	-3.900	1.00 75.42	O
ATOM	6777	N	ARG	868	26.493	37.780	-2.468	1.00151.89	N
ATOM	6778	CA	ARG	868	26.946	36.471	-2.830	1.00151.89	C
ATOM	6779	CB	ARG	868	28.270	36.117	-2.132	1.00151.89	C
ATOM	6780	CG	ARG	868	29.037	34.956	-2.769	1.00151.89	C
ATOM	6781	CD	ARG	868	28.655	33.583	-2.221	1.00151.89	C
ATOM	6782	NE	ARG	868	27.624	33.004	-3.125	1.00151.89	N
ATOM	6783	CZ	ARG	868	27.055	31.803	-2.815	1.00151.89	C
ATOM	6784	NH1	ARG	868	27.377	31.182	-1.643	1.00151.89	N
ATOM	6785	NH2	ARG	868	26.166	31.224	-3.673	1.00151.89	N
ATOM	6786	C	ARG	868	25.919	35.444	-2.442	1.00151.89	C
ATOM	6787	O	ARG	868	25.484	34.634	-3.260	1.00151.89	O
ATOM	6788	N	PHE	869	25.456	35.499	-1.181	1.00 80.72	N
ATOM	6789	CA	PHE	869	24.556	34.522	-0.640	1.00 80.72	C
ATOM	6790	CB	PHE	869	24.251	34.823	0.838	1.00 80.72	C
ATOM	6791	CG	PHE	869	23.557	33.653	1.439	1.00 80.72	C
ATOM	6792	CD1	PHE	869	24.292	32.617	1.966	1.00 80.72	C
ATOM	6793	CD2	PHE	869	22.184	33.585	1.472	1.00 80.72	C
ATOM	6794	CE1	PHE	869	23.667	31.529	2.527	1.00 80.72	C
ATOM	6795	CE2	PHE	869	21.553	32.500	2.031	1.00 80.72	C
ATOM	6796	CZ	PHE	869	22.294	31.471	2.560	1.00 80.72	C
ATOM	6797	C	PHE	869	23.283	34.563	-1.417	1.00 80.72	C
ATOM	6798	O	PHE	869	22.758	33.525	-1.817	1.00 80.72	O
ATOM	6799	N	GLY	870	22.767	35.776	-1.686	1.00 53.93	N
ATOM	6800	CA	GLY	870	21.514	35.869	-2.370	1.00 53.93	C
ATOM	6801	C	GLY	870	21.624	35.203	-3.706	1.00 53.93	C

ATOM	6802	O	GLY	870	20.830	34.329	-4.037	1.00	53.93	O
ATOM	6803	N	ALA	871	22.693	35.502	-4.456	1.00	70.88	N
ATOM	6804	CA	ALA	871	22.858	35.057	-5.811	1.00	70.88	C
ATOM	6805	CB	ALA	871	24.231	35.426	-6.397	1.00	70.88	C
ATOM	6806	C	ALA	871	22.750	33.574	-5.838	1.00	70.88	C
ATOM	6807	O	ALA	871	22.307	33.021	-6.843	1.00	70.88	O
ATOM	6808	N	TYR	872	23.161	32.926	-4.727	1.00	95.02	N
ATOM	6809	CA	TYR	872	23.237	31.500	-4.534	1.00	95.02	C
ATOM	6810	CB	TYR	872	23.004	31.094	-3.068	1.00	95.02	C
ATOM	6811	CG	TYR	872	23.207	29.624	-2.941	1.00	95.02	C
ATOM	6812	CD1	TYR	872	24.466	29.116	-2.720	1.00	95.02	C
ATOM	6813	CD2	TYR	872	22.145	28.756	-3.038	1.00	95.02	C
ATOM	6814	CE1	TYR	872	24.668	27.761	-2.598	1.00	95.02	C
ATOM	6815	CE2	TYR	872	22.340	27.400	-2.918	1.00	95.02	C
ATOM	6816	CZ	TYR	872	23.601	26.901	-2.698	1.00	95.02	C
ATOM	6817	OH	TYR	872	23.797	25.509	-2.575	1.00	95.02	O
ATOM	6818	C	TYR	872	22.252	30.743	-5.395	1.00	95.02	C
ATOM	6819	O	TYR	872	21.054	31.008	-5.388	1.00	95.02	O
ATOM	6820	N	LEU	873	22.793	29.745	-6.126	1.00	136.17	N
ATOM	6821	CA	LEU	873	22.228	28.784	-7.056	1.00	136.17	C
ATOM	6822	CB	LEU	873	21.496	27.598	-6.420	1.00	136.17	C
ATOM	6823	CG	LEU	873	21.084	26.602	-7.521	1.00	136.17	C
ATOM	6824	CD1	LEU	873	22.322	25.987	-8.189	1.00	136.17	C
ATOM	6825	CD2	LEU	873	20.089	25.552	-7.023	1.00	136.17	C
ATOM	6826	C	LEU	873	21.357	29.259	-8.191	1.00	136.17	C
ATOM	6827	O	LEU	873	20.130	29.202	-8.132	1.00	136.17	O
ATOM	6828	N	VAL	874	22.002	29.803	-9.238	1.00	142.17	N
ATOM	6829	CA	VAL	874	21.476	30.195	-10.521	1.00	142.17	C
ATOM	6830	CB	VAL	874	22.159	31.386	-11.112	1.00	142.17	C
ATOM	6831	CG1	VAL	874	22.002	32.565	-10.138	1.00	142.17	C
ATOM	6832	CG2	VAL	874	23.603	31.010	-11.435	1.00	142.17	C
ATOM	6833	C	VAL	874	21.498	29.074	-11.540	1.00	142.17	C
ATOM	6834	O	VAL	874	21.412	29.352	-12.737	1.00	142.17	O
ATOM	6835	N	ALA	875	21.798	27.816	-11.151	1.00	87.50	N
ATOM	6836	CA	ALA	875	21.937	26.776	-12.148	1.00	87.50	C
ATOM	6837	CB	ALA	875	22.489	25.459	-11.572	1.00	87.50	C
ATOM	6838	C	ALA	875	20.638	26.449	-12.845	1.00	87.50	C
ATOM	6839	O	ALA	875	19.763	25.781	-12.305	1.00	87.50	O
ATOM	6840	N	HIS	876	20.548	26.838	-14.133	1.00	162.13	N
ATOM	6841	CA	HIS	876	19.454	26.629	-15.048	1.00	162.13	C
ATOM	6842	ND1	HIS	876	17.056	24.213	-14.429	1.00	162.13	N
ATOM	6843	CG	HIS	876	18.431	24.296	-14.462	1.00	162.13	C
ATOM	6844	CB	HIS	876	19.198	25.151	-15.435	1.00	162.13	C
ATOM	6845	NE2	HIS	876	17.812	22.813	-12.876	1.00	162.13	N
ATOM	6846	CD2	HIS	876	18.876	23.435	-13.507	1.00	162.13	C
ATOM	6847	CE1	HIS	876	16.740	23.312	-13.463	1.00	162.13	C
ATOM	6848	C	HIS	876	18.168	27.277	-14.614	1.00	162.13	C
ATOM	6849	O	HIS	876	17.091	26.815	-14.983	1.00	162.13	O
ATOM	6850	N	LYS	877	18.252	28.408	-13.881	1.00	222.85	N
ATOM	6851	CA	LYS	877	17.116	29.194	-13.458	1.00	222.85	C
ATOM	6852	CB	LYS	877	15.959	29.253	-14.461	1.00	222.85	C
ATOM	6853	CG	LYS	877	14.871	30.224	-14.012	1.00	222.85	C
ATOM	6854	CD	LYS	877	15.331	31.683	-14.039	1.00	222.85	C
ATOM	6855	CE	LYS	877	16.435	32.028	-13.037	1.00	222.85	C
ATOM	6856	NZ	LYS	877	16.895	33.419	-13.249	1.00	222.85	N
ATOM	6857	C	LYS	877	16.503	28.638	-12.212	1.00	222.85	C
ATOM	6858	O	LYS	877	15.728	27.686	-12.259	1.00	222.85	O
ATOM	6859	N	LEU	878	16.769	29.307	-11.075	1.00	164.92	N
ATOM	6860	CA	LEU	878	16.360	28.867	-9.772	1.00	164.92	C
ATOM	6861	CB	LEU	878	17.616	28.310	-9.054	1.00	164.92	C
ATOM	6862	CG	LEU	878	17.505	27.754	-7.624	1.00	164.92	C
ATOM	6863	CD1	LEU	878	17.572	28.851	-6.552	1.00	164.92	C
ATOM	6864	CD2	LEU	878	16.289	26.825	-7.501	1.00	164.92	C
ATOM	6865	C	LEU	878	15.755	30.065	-9.068	1.00	164.92	C
ATOM	6866	O	LEU	878	15.747	31.167	-9.611	1.00	164.92	O
ATOM	6867	N	MET	879	15.295	29.903	-7.808	1.00	194.89	N
ATOM	6868	CA	MET	879	14.601	30.925	-7.067	1.00	194.89	C
ATOM	6869	CB	MET	879	14.089	30.532	-5.664	1.00	194.89	C
ATOM	6870	CG	MET	879	15.069	29.829	-4.726	1.00	194.89	C
ATOM	6871	SD	MET	879	15.097	28.027	-4.942	1.00	194.89	S
ATOM	6872	CE	MET	879	13.293	27.867	-4.830	1.00	194.89	C
ATOM	6873	C	MET	879	15.471	32.134	-6.950	1.00	194.89	C
ATOM	6874	O	MET	879	15.013	33.186	-6.508	1.00	194.89	O
ATOM	6875	N	SER	880	16.777	31.988	-7.226	1.00	89.92	N

ATOM	6876	CA	SER	880	17.663	33.121	-7.207	1.00	89.92	C
ATOM	6877	CB	SER	880	19.143	32.712	-7.135	1.00	89.92	C
ATOM	6878	OG	SER	880	19.502	31.989	-8.305	1.00	89.92	O
ATOM	6879	C	SER	880	17.502	33.928	-8.470	1.00	89.92	C
ATOM	6880	O	SER	880	17.753	33.435	-9.570	1.00	89.92	O
ATOM	6881	N	PHE	881	17.103	35.216	-8.326	1.00	194.12	N
ATOM	6882	CA	PHE	881	16.911	36.099	-9.447	1.00	194.12	C
ATOM	6883	CB	PHE	881	15.649	35.762	-10.274	1.00	194.12	C
ATOM	6884	CG	PHE	881	14.419	35.973	-9.457	1.00	194.12	C
ATOM	6885	CD1	PHE	881	14.182	35.193	-8.350	1.00	194.12	C
ATOM	6886	CD2	PHE	881	13.515	36.962	-9.775	1.00	194.12	C
ATOM	6887	CE1	PHE	881	13.056	35.381	-7.584	1.00	194.12	C
ATOM	6888	CE2	PHE	881	12.387	37.156	-9.015	1.00	194.12	C
ATOM	6889	CZ	PHE	881	12.155	36.363	-7.918	1.00	194.12	C
ATOM	6890	C	PHE	881	16.841	37.524	-8.937	1.00	194.12	C
ATOM	6891	O	PHE	881	17.549	37.909	-8.008	1.00	194.12	O
ATOM	6892	N	GLU	882	15.954	38.344	-9.537	1.00	158.93	N
ATOM	6893	CA	GLU	882	15.809	39.762	-9.300	1.00	158.93	C
ATOM	6894	CB	GLU	882	14.691	40.397	-10.147	1.00	158.93	C
ATOM	6895	CG	GLU	882	14.647	41.931	-10.078	1.00	158.93	C
ATOM	6896	CD	GLU	882	13.910	42.401	-8.825	1.00	158.93	C
ATOM	6897	OE1	GLU	882	13.192	41.578	-8.198	1.00	158.93	O
ATOM	6898	OE2	GLU	882	14.068	43.600	-8.473	1.00	158.93	O
ATOM	6899	C	GLU	882	15.502	40.134	-7.870	1.00	158.93	C
ATOM	6900	O	GLU	882	15.959	41.181	-7.414	1.00	158.93	O
ATOM	6901	N	ASP	883	14.778	39.299	-7.105	1.00	145.25	N
ATOM	6902	CA	ASP	883	14.249	39.618	-5.796	1.00	145.25	C
ATOM	6903	CB	ASP	883	13.689	38.375	-5.082	1.00	145.25	C
ATOM	6904	CG	ASP	883	14.799	37.348	-4.903	1.00	145.25	C
ATOM	6905	OD1	ASP	883	15.606	37.155	-5.852	1.00	145.25	O
ATOM	6906	OD2	ASP	883	14.839	36.723	-3.810	1.00	145.25	O
ATOM	6907	C	ASP	883	15.300	40.246	-4.924	1.00	145.25	C
ATOM	6908	O	ASP	883	14.977	41.010	-4.013	1.00	145.25	O
ATOM	6909	N	VAL	884	16.585	39.982	-5.206	1.00	84.02	N
ATOM	6910	CA	VAL	884	17.677	40.541	-4.460	1.00	84.02	C
ATOM	6911	CB	VAL	884	18.997	40.304	-5.133	1.00	84.02	C
ATOM	6912	CG1	VAL	884	19.256	38.789	-5.186	1.00	84.02	C
ATOM	6913	CG2	VAL	884	18.964	40.966	-6.522	1.00	84.02	C
ATOM	6914	C	VAL	884	17.488	42.035	-4.359	1.00	84.02	C
ATOM	6915	O	VAL	884	17.968	42.664	-3.417	1.00	84.02	O
ATOM	6916	N	LEU	885	16.802	42.659	-5.333	1.00	118.33	N
ATOM	6917	CA	LEU	885	16.582	44.081	-5.271	1.00	118.33	C
ATOM	6918	CB	LEU	885	15.859	44.639	-6.509	1.00	118.33	C
ATOM	6919	CG	LEU	885	16.774	44.745	-7.745	1.00	118.33	C
ATOM	6920	CD1	LEU	885	17.830	45.845	-7.553	1.00	118.33	C
ATOM	6921	CD2	LEU	885	17.417	43.397	-8.100	1.00	118.33	C
ATOM	6922	C	LEU	885	15.787	44.435	-4.046	1.00	118.33	C
ATOM	6923	O	LEU	885	16.014	45.482	-3.442	1.00	118.33	O
ATOM	6924	N	LEU	886	14.802	43.602	-3.663	1.00	126.39	N
ATOM	6925	CA	LEU	886	14.062	43.855	-2.457	1.00	126.39	C
ATOM	6926	CB	LEU	886	12.831	42.953	-2.292	1.00	126.39	C
ATOM	6927	CG	LEU	886	11.683	43.329	-3.247	1.00	126.39	C
ATOM	6928	CD1	LEU	886	12.107	43.183	-4.715	1.00	126.39	C
ATOM	6929	CD2	LEU	886	10.397	42.556	-2.911	1.00	126.39	C
ATOM	6930	C	LEU	886	15.000	43.668	-1.307	1.00	126.39	C
ATOM	6931	O	LEU	886	14.827	44.236	-0.232	1.00	126.39	O
ATOM	6932	N	VAL	887	16.023	42.821	-1.477	1.00	56.99	N
ATOM	6933	CA	VAL	887	16.959	42.672	-0.399	1.00	56.99	C
ATOM	6934	CB	VAL	887	18.074	41.725	-0.733	1.00	56.99	C
ATOM	6935	CG1	VAL	887	19.074	41.712	0.436	1.00	56.99	C
ATOM	6936	CG2	VAL	887	17.468	40.347	-1.053	1.00	56.99	C
ATOM	6937	C	VAL	887	17.561	44.025	-0.128	1.00	56.99	C
ATOM	6938	O	VAL	887	17.708	44.446	1.020	1.00	56.99	O
ATOM	6939	N	PHE	888	17.877	44.775	-1.200	1.00	131.81	N
ATOM	6940	CA	PHE	888	18.460	46.081	-1.056	1.00	131.81	C
ATOM	6941	CB	PHE	888	18.657	46.783	-2.413	1.00	131.81	C
ATOM	6942	CG	PHE	888	19.155	48.166	-2.166	1.00	131.81	C
ATOM	6943	CD1	PHE	888	18.262	49.191	-1.956	1.00	131.81	C
ATOM	6944	CD2	PHE	888	20.503	48.442	-2.147	1.00	131.81	C
ATOM	6945	CE1	PHE	888	18.703	50.473	-1.728	1.00	131.81	C
ATOM	6946	CE2	PHE	888	20.950	49.724	-1.918	1.00	131.81	C
ATOM	6947	CZ	PHE	888	20.050	50.741	-1.709	1.00	131.81	C
ATOM	6948	C	PHE	888	17.493	46.891	-0.250	1.00	131.81	C
ATOM	6949	O	PHE	888	17.869	47.726	0.571	1.00	131.81	O

ATOM	6950	N	SER	889	16.198	46.650	-0.475	1.00123.78	N
ATOM	6951	CA	SER	889	15.163	47.355	0.214	1.00123.78	C
ATOM	6952	CB	SER	889	13.803	46.759	-0.199	1.00123.78	C
ATOM	6953	OG	SER	889	12.763	47.120	0.685	1.00123.78	O
ATOM	6954	C	SER	889	15.342	47.247	1.715	1.00123.78	C
ATOM	6955	O	SER	889	15.281	48.249	2.426	1.00123.78	O
ATOM	6956	N	ALA	890	15.545	46.031	2.252	1.00 74.82	N
ATOM	6957	CA	ALA	890	15.695	45.821	3.674	1.00 74.82	C
ATOM	6958	CB	ALA	890	15.637	44.334	4.061	1.00 74.82	C
ATOM	6959	C	ALA	890	16.974	46.398	4.219	1.00 74.82	C
ATOM	6960	O	ALA	890	17.014	46.864	5.359	1.00 74.82	O
ATOM	6961	N	VAL	891	18.080	46.315	3.453	1.00115.69	N
ATOM	6962	CA	VAL	891	19.327	46.824	3.959	1.00115.69	C
ATOM	6963	CB	VAL	891	20.519	46.536	3.076	1.00115.69	C
ATOM	6964	CG1	VAL	891	20.741	45.016	3.028	1.00115.69	C
ATOM	6965	CG2	VAL	891	20.307	47.155	1.687	1.00115.69	C
ATOM	6966	C	VAL	891	19.191	48.306	4.101	1.00115.69	C
ATOM	6967	O	VAL	891	19.544	48.886	5.129	1.00115.69	O
ATOM	6968	N	VAL	892	18.622	48.948	3.064	1.00128.41	N
ATOM	6969	CA	VAL	892	18.444	50.364	3.058	1.00128.41	C
ATOM	6970	CB	VAL	892	17.962	50.920	1.742	1.00128.41	C
ATOM	6971	CG1	VAL	892	16.506	50.508	1.496	1.00128.41	C
ATOM	6972	CG2	VAL	892	18.186	52.441	1.750	1.00128.41	C
ATOM	6973	C	VAL	892	17.477	50.692	4.151	1.00128.41	C
ATOM	6974	O	VAL	892	17.435	51.819	4.644	1.00128.41	O
ATOM	6975	N	PHE	893	16.631	49.716	4.540	1.00119.72	N
ATOM	6976	CA	PHE	893	15.708	50.009	5.599	1.00119.72	C
ATOM	6977	CB	PHE	893	14.829	48.845	6.093	1.00119.72	C
ATOM	6978	CG	PHE	893	13.828	48.436	5.082	1.00119.72	C
ATOM	6979	CD1	PHE	893	13.219	49.366	4.278	1.00119.72	C
ATOM	6980	CD2	PHE	893	13.435	47.121	5.014	1.00119.72	C
ATOM	6981	CE1	PHE	893	12.279	48.959	3.367	1.00119.72	C
ATOM	6982	CE2	PHE	893	12.493	46.710	4.106	1.00119.72	C
ATOM	6983	CZ	PHE	893	11.917	47.637	3.275	1.00119.72	C
ATOM	6984	C	PHE	893	16.465	50.373	6.835	1.00119.72	C
ATOM	6985	O	PHE	893	16.231	51.424	7.432	1.00119.72	O
ATOM	6986	N	GLY	894	17.438	49.528	7.223	1.00 54.62	N
ATOM	6987	CA	GLY	894	18.128	49.725	8.467	1.00 54.62	C
ATOM	6988	C	GLY	894	18.734	51.090	8.442	1.00 54.62	C
ATOM	6989	O	GLY	894	18.698	51.835	9.424	1.00 54.62	O
ATOM	6990	N	ALA	895	19.259	51.470	7.272	1.00 55.00	N
ATOM	6991	CA	ALA	895	19.877	52.748	7.147	1.00 55.00	C
ATOM	6992	CB	ALA	895	20.427	53.008	5.734	1.00 55.00	C
ATOM	6993	C	ALA	895	18.861	53.817	7.440	1.00 55.00	C
ATOM	6994	O	ALA	895	19.185	54.828	8.061	1.00 55.00	O
ATOM	6995	N	MET	896	17.596	53.620	7.018	1.00136.93	N
ATOM	6996	CA	MET	896	16.607	54.661	7.155	1.00136.93	C
ATOM	6997	CB	MET	896	15.223	54.268	6.589	1.00136.93	C
ATOM	6998	CG	MET	896	14.365	53.418	7.531	1.00136.93	C
ATOM	6999	SD	MET	896	12.987	52.534	6.740	1.00136.93	S
ATOM	7000	CE	MET	896	11.890	53.972	6.585	1.00136.93	C
ATOM	7001	C	MET	896	16.417	55.038	8.603	1.00136.93	C
ATOM	7002	O	MET	896	16.410	56.218	8.955	1.00136.93	O
ATOM	7003	N	ALA	897	16.293	54.039	9.493	1.00 72.63	N
ATOM	7004	CA	ALA	897	16.057	54.282	10.890	1.00 72.63	C
ATOM	7005	CB	ALA	897	15.876	52.989	11.701	1.00 72.63	C
ATOM	7006	C	ALA	897	17.226	55.010	11.461	1.00 72.63	C
ATOM	7007	O	ALA	897	17.082	55.825	12.372	1.00 72.63	O
ATOM	7008	N	VAL	898	18.430	54.723	10.937	1.00 64.41	N
ATOM	7009	CA	VAL	898	19.613	55.327	11.475	1.00 64.41	C
ATOM	7010	CB	VAL	898	20.852	54.984	10.699	1.00 64.41	C
ATOM	7011	CG1	VAL	898	22.035	55.774	11.287	1.00 64.41	C
ATOM	7012	CG2	VAL	898	21.049	53.459	10.736	1.00 64.41	C
ATOM	7013	C	VAL	898	19.440	56.812	11.411	1.00 64.41	C
ATOM	7014	O	VAL	898	19.790	57.539	12.343	1.00 64.41	O
ATOM	7015	N	GLY	899	18.827	57.296	10.320	1.00 49.22	N
ATOM	7016	CA	GLY	899	18.674	58.708	10.151	1.00 49.22	C
ATOM	7017	C	GLY	899	17.913	59.268	11.319	1.00 49.22	C
ATOM	7018	O	GLY	899	18.206	60.363	11.797	1.00 49.22	O
ATOM	7019	N	GLN	900	16.907	58.523	11.810	1.00151.87	N
ATOM	7020	CA	GLN	900	16.000	59.021	12.813	1.00151.87	C
ATOM	7021	CB	GLN	900	14.916	57.983	13.137	1.00151.87	C
ATOM	7022	CG	GLN	900	14.233	57.367	11.912	1.00151.87	C
ATOM	7023	CD	GLN	900	13.371	58.408	11.224	1.00151.87	C

ATOM	7024	OE1	GLN	900	12.668	58.099	10.264	1.00151.87
ATOM	7025	NE2	GLN	900	13.424	59.673	11.720	1.00151.87
ATOM	7026	C	GLN	900	16.664	59.328	14.138	1.00151.87
ATOM	7027	O	GLN	900	16.504	60.423	14.684	1.00151.87
ATOM	7028	N	VAL	901	17.445	58.380	14.695	1.00151.42
ATOM	7029	CA	VAL	901	17.992	58.587	16.017	1.00151.42
ATOM	7030	CB	VAL	901	18.761	57.403	16.536	1.00151.42
ATOM	7031	CG1	VAL	901	19.922	57.087	15.576	1.00151.42
ATOM	7032	CG2	VAL	901	19.206	57.718	17.976	1.00151.42
ATOM	7033	C	VAL	901	18.901	59.756	15.964	1.00151.42
ATOM	7034	O	VAL	901	18.924	60.603	16.859	1.00151.42
ATOM	7035	N	SER	902	19.673	59.810	14.873	1.00 81.64
ATOM	7036	CA	SER	902	20.642	60.833	14.665	1.00 81.64
ATOM	7037	CB	SER	902	21.659	60.470	13.569	1.00 81.64
ATOM	7038	OG	SER	902	22.401	59.322	13.954	1.00 81.64
ATOM	7039	C	SER	902	19.974	62.116	14.247	1.00 81.64
ATOM	7040	O	SER	902	20.675	63.079	13.945	1.00 81.64
ATOM	7041	N	SER	903	18.624	62.194	14.179	1.00119.20
ATOM	7042	CA	SER	903	18.064	63.423	13.661	1.00119.20
ATOM	7043	CB	SER	903	17.575	63.283	12.211	1.00119.20
ATOM	7044	OG	SER	903	16.543	62.310	12.143	1.00119.20
ATOM	7045	C	SER	903	16.892	63.889	14.479	1.00119.20
ATOM	7046	O	SER	903	16.534	63.270	15.480	1.00119.20
ATOM	7047	N	PHE	904	16.315	65.057	14.083	1.00190.21
ATOM	7048	CA	PHE	904	15.146	65.624	14.719	1.00190.21
ATOM	7049	CB	PHE	904	14.008	64.635	15.047	1.00190.21
ATOM	7050	CG	PHE	904	12.976	64.663	13.969	1.00190.21
ATOM	7051	CD1	PHE	904	12.059	65.689	13.964	1.00190.21
ATOM	7052	CD2	PHE	904	12.882	63.693	12.998	1.00190.21
ATOM	7053	CE1	PHE	904	11.078	65.767	13.006	1.00190.21
ATOM	7054	CE2	PHE	904	11.899	63.766	12.035	1.00190.21
ATOM	7055	CZ	PHE	904	10.996	64.802	12.034	1.00190.21
ATOM	7056	C	PHE	904	15.494	66.352	15.986	1.00190.21
ATOM	7057	O	PHE	904	16.614	66.816	16.192	1.00190.21
ATOM	7058	N	ALA	905	14.484	66.433	16.878	1.00103.85
ATOM	7059	CA	ALA	905	14.460	67.137	18.135	1.00103.85
ATOM	7060	CB	ALA	905	13.175	66.794	18.918	1.00103.85
ATOM	7061	C	ALA	905	15.663	66.739	18.936	1.00103.85
ATOM	7062	O	ALA	905	16.345	65.780	18.572	1.00103.85
ATOM	7063	N	PRO	906	15.985	67.482	19.992	1.00144.90
ATOM	7064	CA	PRO	906	17.115	67.161	20.823	1.00144.90
ATOM	7065	CD	PRO	906	15.042	68.348	20.688	1.00144.90
ATOM	7066	CB	PRO	906	17.045	68.112	22.018	1.00144.90
ATOM	7067	CG	PRO	906	15.543	68.416	22.139	1.00144.90
ATOM	7068	C	PRO	906	16.919	65.737	21.228	1.00144.90
ATOM	7069	O	PRO	906	15.760	65.333	21.271	1.00144.90
ATOM	7070	N	ASP	907	18.010	65.003	21.587	1.00223.17
ATOM	7071	CA	ASP	907	18.175	63.602	21.959	1.00223.17
ATOM	7072	CB	ASP	907	19.638	63.196	22.189	1.00223.17
ATOM	7073	CG	ASP	907	19.702	61.677	22.085	1.00223.17
ATOM	7074	OD1	ASP	907	18.617	61.045	21.968	1.00223.17
ATOM	7075	OD2	ASP	907	20.835	61.127	22.112	1.00223.17
ATOM	7076	C	ASP	907	17.414	63.371	23.250	1.00223.17
ATOM	7077	O	ASP	907	17.778	62.573	24.109	1.00223.17
ATOM	7078	N	TYR	908	16.390	64.201	23.466	1.00241.64
ATOM	7079	CA	TYR	908	15.540	64.300	24.589	1.00241.64
ATOM	7080	CB	TYR	908	15.268	62.901	25.174	1.00241.64
ATOM	7081	CG	TYR	908	13.818	62.730	25.466	1.00241.64
ATOM	7082	CD1	TYR	908	13.198	63.418	26.477	1.00241.64
ATOM	7083	CD2	TYR	908	13.080	61.838	24.719	1.00241.64
ATOM	7084	CE1	TYR	908	11.859	63.233	26.728	1.00241.64
ATOM	7085	CE2	TYR	908	11.741	61.645	24.961	1.00241.64
ATOM	7086	CZ	TYR	908	11.129	62.348	25.970	1.00241.64
ATOM	7087	OH	TYR	908	9.755	62.161	26.231	1.00241.64
ATOM	7088	C	TYR	908	16.463	65.028	25.510	1.00241.64
ATOM	7089	O	TYR	908	16.810	66.175	25.233	1.00241.64
ATOM	7090	N	ALA	909	16.974	64.367	26.561	1.00256.25
ATOM	7091	CA	ALA	909	18.011	65.003	27.330	1.00256.25
ATOM	7092	CB	ALA	909	19.308	65.214	26.528	1.00256.25
ATOM	7093	C	ALA	909	17.569	66.319	27.865	1.00256.25
ATOM	7094	O	ALA	909	16.590	66.438	28.587	1.00256.25
ATOM	7095	N	LYS	910	18.305	67.365	27.471	1.00245.65
ATOM	7096	CA	LYS	910	18.183	68.716	27.938	1.00245.65
ATOM	7097	CB	LYS	910	18.919	69.681	26.995	1.00245.65



ATOM	7098	CG	LYS	910	20.337	69.234	26.616	1.00245.65	C
ATOM	7099	CD	LYS	910	20.390	68.005	25.697	1.00245.65	C
ATOM	7100	CE	LYS	910	19.379	68.049	24.548	1.00245.65	C
ATOM	7101	NZ	LYS	910	19.167	66.688	24.005	1.00245.65	N
ATOM	7102	C	LYS	910	16.734	69.073	27.855	1.00245.65	C
ATOM	7103	O	LYS	910	16.244	69.868	28.656	1.00245.65	O
ATOM	7104	N	ALA	911	16.005	68.518	26.867	1.00 82.70	N
ATOM	7105	CA	ALA	911	14.613	68.858	26.777	1.00 82.70	C
ATOM	7106	CB	ALA	911	13.915	68.183	25.585	1.00 82.70	C
ATOM	7107	C	ALA	911	13.900	68.404	28.029	1.00 82.70	C
ATOM	7108	O	ALA	911	13.149	69.156	28.647	1.00 82.70	O
ATOM	7109	N	LYS	912	14.137	67.158	28.467	1.00 86.27	N
ATOM	7110	CA	LYS	912	13.542	66.658	29.674	1.00 86.27	C
ATOM	7111	CB	LYS	912	13.945	65.218	30.037	1.00 86.27	C
ATOM	7112	CG	LYS	912	13.147	64.128	29.328	1.00 86.27	C
ATOM	7113	CD	LYS	912	13.730	62.728	29.537	1.00 86.27	C
ATOM	7114	CE	LYS	912	12.856	61.604	28.977	1.00 86.27	C
ATOM	7115	NZ	LYS	912	13.467	60.289	29.276	1.00 86.27	N
ATOM	7116	C	LYS	912	13.956	67.491	30.856	1.00 86.27	C
ATOM	7117	O	LYS	912	13.119	67.818	31.696	1.00 86.27	O
ATOM	7118	N	ILE	913	15.247	67.871	30.965	1.00177.52	N
ATOM	7119	CA	ILE	913	15.655	68.607	32.139	1.00177.52	C
ATOM	7120	CB	ILE	913	17.138	68.898	32.180	1.00177.52	C
ATOM	7121	CG1	ILE	913	17.619	69.812	31.035	1.00177.52	C
ATOM	7122	CG2	ILE	913	17.855	67.538	32.221	1.00177.52	C
ATOM	7123	CD1	ILE	913	17.430	71.309	31.289	1.00177.52	C
ATOM	7124	C	ILE	913	14.870	69.867	32.169	1.00177.52	C
ATOM	7125	O	ILE	913	14.316	70.258	33.198	1.00177.52	O
ATOM	7126	N	SER	914	14.746	70.514	31.006	1.00 93.81	N
ATOM	7127	CA	SER	914	14.027	71.747	31.017	1.00 93.81	C
ATOM	7128	CB	SER	914	14.081	72.467	29.662	1.00 93.81	C
ATOM	7129	OG	SER	914	15.422	72.843	29.381	1.00 93.81	O
ATOM	7130	C	SER	914	12.589	71.451	31.350	1.00 93.81	C
ATOM	7131	O	SER	914	11.924	72.245	32.014	1.00 93.81	O
ATOM	7132	N	ALA	915	12.066	70.286	30.914	1.00 78.23	N
ATOM	7133	CA	ALA	915	10.680	69.993	31.170	1.00 78.23	C
ATOM	7134	CB	ALA	915	10.241	68.642	30.578	1.00 78.23	C
ATOM	7135	C	ALA	915	10.422	69.923	32.654	1.00 78.23	C
ATOM	7136	O	ALA	915	9.485	70.539	33.169	1.00 78.23	O
ATOM	7137	N	ALA	916	11.293	69.214	33.397	1.00 62.78	N
ATOM	7138	CA	ALA	916	11.051	69.020	34.798	1.00 62.78	C
ATOM	7139	CB	ALA	916	12.172	68.225	35.488	1.00 62.78	C
ATOM	7140	C	ALA	916	10.975	70.354	35.462	1.00 62.78	C
ATOM	7141	O	ALA	916	10.067	70.617	36.253	1.00 62.78	O
ATOM	7142	N	HIS	917	11.901	71.259	35.112	1.00113.08	N
ATOM	7143	CA	HIS	917	11.920	72.525	35.778	1.00113.08	C
ATOM	7144	ND1	HIS	917	14.906	73.601	36.906	1.00113.08	N
ATOM	7145	CG	HIS	917	14.397	73.164	35.704	1.00113.08	C
ATOM	7146	CB	HIS	917	13.007	73.471	35.237	1.00113.08	C
ATOM	7147	NE2	HIS	917	16.535	72.470	35.900	1.00113.08	N
ATOM	7148	CD2	HIS	917	15.404	72.473	35.102	1.00113.08	C
ATOM	7149	CE1	HIS	917	16.188	73.159	36.972	1.00113.08	C
ATOM	7150	C	HIS	917	10.619	73.254	35.597	1.00113.08	C
ATOM	7151	O	HIS	917	9.958	73.638	36.562	1.00113.08	O
ATOM	7152	N	ILE	918	10.178	73.404	34.340	1.00148.69	N
ATOM	7153	CA	ILE	918	9.020	74.201	34.051	1.00148.69	C
ATOM	7154	CB	ILE	918	8.765	74.287	32.559	1.00148.69	C
ATOM	7155	CG1	ILE	918	7.601	75.234	32.204	1.00148.69	C
ATOM	7156	CG2	ILE	918	8.597	72.862	32.014	1.00148.69	C
ATOM	7157	CD1	ILE	918	6.214	74.702	32.564	1.00148.69	C
ATOM	7158	C	ILE	918	7.847	73.623	34.769	1.00148.69	C
ATOM	7159	O	ILE	918	6.945	74.353	35.178	1.00148.69	O
ATOM	7160	N	ILE	919	7.822	72.286	34.908	1.00 78.40	N
ATOM	7161	CA	ILE	919	6.723	71.606	35.538	1.00 78.40	C
ATOM	7162	CB	ILE	919	6.839	70.109	35.458	1.00 78.40	C
ATOM	7163	CG1	ILE	919	6.739	69.648	33.995	1.00 78.40	C
ATOM	7164	CG2	ILE	919	5.776	69.488	36.382	1.00 78.40	C
ATOM	7165	CD1	ILE	919	7.074	68.172	33.791	1.00 78.40	C
ATOM	7166	C	ILE	919	6.584	71.949	36.987	1.00 78.40	C
ATOM	7167	O	ILE	919	5.478	72.234	37.446	1.00 78.40	O
ATOM	7168	N	MET	920	7.688	71.954	37.754	1.00109.93	N
ATOM	7169	CA	MET	920	7.549	72.189	39.166	1.00109.93	C
ATOM	7170	CB	MET	920	8.916	72.223	39.870	1.00109.93	C
ATOM	7171	CG	MET	920	8.845	72.410	41.386	1.00109.93	C

ATOM	7172	SD	MET	920	10.469	72.483	42.202	1.00109.93	S
ATOM	7173	CE	MET	920	10.931	70.773	41.801	1.00109.93	C
ATOM	7174	C	MET	920	6.921	73.542	39.361	1.00109.93	C
ATOM	7175	O	MET	920	6.019	73.732	40.180	1.00109.93	O
ATOM	7176	N	ILE	921	7.372	74.521	38.564	1.00149.61	N
ATOM	7177	CA	ILE	921	6.934	75.887	38.687	1.00149.61	C
ATOM	7178	CB	ILE	921	7.700	76.796	37.770	1.00149.61	C
ATOM	7179	CG1	ILE	921	9.211	76.673	38.041	1.00149.61	C
ATOM	7180	CG2	ILE	921	7.148	78.221	37.938	1.00149.61	C
ATOM	7181	CD1	ILE	921	9.613	76.944	39.489	1.00149.61	C
ATOM	7182	C	ILE	921	5.489	76.044	38.352	1.00149.61	C
ATOM	7183	O	ILE	921	4.770	76.851	38.947	1.00149.61	O
ATOM	7184	N	ILE	922	5.052	75.321	37.317	1.00 92.86	N
ATOM	7185	CA	ILE	922	3.699	75.406	36.879	1.00 92.86	C
ATOM	7186	CB	ILE	922	3.434	74.733	35.561	1.00 92.86	C
ATOM	7187	CG1	ILE	922	2.053	75.154	35.034	1.00 92.86	C
ATOM	7188	CG2	ILE	922	3.587	73.216	35.731	1.00 92.86	C
ATOM	7189	CD1	ILE	922	1.799	74.760	33.579	1.00 92.86	C
ATOM	7190	C	ILE	922	2.775	74.832	37.896	1.00 92.86	C
ATOM	7191	O	ILE	922	1.625	75.250	37.977	1.00 92.86	O
ATOM	7192	N	GLU	923	3.209	73.814	38.656	1.00107.52	N
ATOM	7193	CA	GLU	923	2.257	73.190	39.533	1.00107.52	C
ATOM	7194	CB	GLU	923	2.887	72.047	40.333	1.00107.52	C
ATOM	7195	CG	GLU	923	3.269	70.871	39.437	1.00107.52	C
ATOM	7196	CD	GLU	923	4.260	70.025	40.210	1.00107.52	C
ATOM	7197	OE1	GLU	923	5.326	70.583	40.580	1.00107.52	O
ATOM	7198	OE2	GLU	923	3.970	68.821	40.443	1.00107.52	O
ATOM	7199	C	GLU	923	1.666	74.176	40.498	1.00107.52	C
ATOM	7200	O	GLU	923	0.482	74.489	40.392	1.00107.52	O
ATOM	7201	N	LYS	924	2.500	74.760	41.384	1.00239.65	N
ATOM	7202	CA	LYS	924	2.126	75.733	42.395	1.00239.65	C
ATOM	7203	CB	LYS	924	2.457	77.182	41.981	1.00239.65	C
ATOM	7204	CG	LYS	924	1.862	77.602	40.635	1.00239.65	C
ATOM	7205	CD	LYS	924	0.339	77.711	40.647	1.00239.65	C
ATOM	7206	CE	LYS	924	-0.250	78.260	39.347	1.00239.65	C
ATOM	7207	NZ	LYS	924	-0.164	77.245	38.275	1.00239.65	N
ATOM	7208	C	LYS	924	0.689	75.654	42.927	1.00239.65	C
ATOM	7209	O	LYS	924	0.026	74.620	42.852	1.00239.65	O
ATOM	7210	N	THR	925	0.228	76.734	43.631	1.00186.96	N
ATOM	7211	CA	THR	925	-1.122	76.848	44.166	1.00186.96	C
ATOM	7212	CB	THR	925	-1.199	76.391	45.600	1.00186.96	C
ATOM	7213	OG1	THR	925	-2.522	76.533	46.096	1.00186.96	O
ATOM	7214	CG2	THR	925	-0.178	77.161	46.461	1.00186.96	C
ATOM	7215	C	THR	925	-1.615	78.287	44.073	1.00186.96	C
ATOM	7216	O	THR	925	-1.291	79.118	44.920	1.00186.96	O
ATOM	7217	N	PRO	926	-2.483	78.586	43.127	1.00200.55	N
ATOM	7218	CA	PRO	926	-2.934	79.938	42.834	1.00200.55	C
ATOM	7219	CD	PRO	926	-3.392	77.582	42.602	1.00200.55	C
ATOM	7220	CB	PRO	926	-4.095	79.782	41.853	1.00200.55	C
ATOM	7221	CG	PRO	926	-4.632	78.369	42.145	1.00200.55	C
ATOM	7222	C	PRO	926	-3.299	80.746	44.034	1.00200.55	C
ATOM	7223	O	PRO	926	-2.887	81.898	44.150	1.00200.55	O
ATOM	7224	N	LEU	927	-4.134	80.188	44.902	1.00166.96	N
ATOM	7225	CA	LEU	927	-4.437	80.773	46.166	1.00166.96	C
ATOM	7226	CB	LEU	927	-3.202	81.084	47.026	1.00166.96	C
ATOM	7227	CG	LEU	927	-3.608	81.604	48.418	1.00166.96	C
ATOM	7228	CD1	LEU	927	-4.402	80.539	49.191	1.00166.96	C
ATOM	7229	CD2	LEU	927	-2.402	82.120	49.211	1.00166.96	C
ATOM	7230	C	LEU	927	-5.262	82.034	46.076	1.00166.96	C
ATOM	7231	O	LEU	927	-5.946	82.347	47.049	1.00166.96	O
ATOM	7232	N	ILE	928	-5.242	82.818	44.964	1.00227.33	N
ATOM	7233	CA	ILE	928	-6.044	84.028	45.011	1.00227.33	C
ATOM	7234	CB	ILE	928	-5.251	85.155	45.646	1.00227.33	C
ATOM	7235	CG1	ILE	928	-4.642	84.751	46.999	1.00227.33	C
ATOM	7236	CG2	ILE	928	-6.160	86.371	45.816	1.00227.33	C
ATOM	7237	CD1	ILE	928	-3.580	85.723	47.506	1.00227.33	C
ATOM	7238	C	ILE	928	-6.377	84.495	43.606	1.00227.33	C
ATOM	7239	O	ILE	928	-5.984	85.599	43.216	1.00227.33	O
ATOM	7240	N	ASP	929	-7.048	83.677	42.767	1.00123.52	N
ATOM	7241	CA	ASP	929	-7.372	84.197	41.461	1.00123.52	C
ATOM	7242	CB	ASP	929	-7.623	83.077	40.438	1.00123.52	C
ATOM	7243	CG	ASP	929	-7.581	83.681	39.042	1.00123.52	C
ATOM	7244	OD1	ASP	929	-7.030	84.804	38.891	1.00123.52	O
ATOM	7245	OD2	ASP	929	-8.100	83.020	38.104	1.00123.52	O

ATOM	7246	C	ASP	929	-8.596	85.061	41.470	1.00123.52	C
ATOM	7247	O	ASP	929	-8.548	86.286	41.361	1.00123.52	O
ATOM	7248	N	SER	930	-9.747	84.400	41.690	1.00108.64	N
ATOM	7249	CA	SER	930	-11.021	85.051	41.665	1.00108.64	C
ATOM	7250	CB	SER	930	-11.773	84.902	40.332	1.00108.64	C
ATOM	7251	OG	SER	930	-13.023	85.572	40.397	1.00108.64	O
ATOM	7252	C	SER	930	-11.813	84.351	42.699	1.00108.64	C
ATOM	7253	O	SER	930	-11.464	83.243	43.089	1.00108.64	O
ATOM	7254	N	TYR	931	-12.843	85.019	43.233	1.00123.88	N
ATOM	7255	CA	TYR	931	-13.702	84.419	44.205	1.00123.88	C
ATOM	7256	CB	TYR	931	-13.147	84.428	45.651	1.00123.88	C
ATOM	7257	CG	TYR	931	-11.847	83.700	45.744	1.00123.88	C
ATOM	7258	CD1	TYR	931	-11.798	82.328	45.651	1.00123.88	C
ATOM	7259	CD2	TYR	931	-10.673	84.393	45.937	1.00123.88	C
ATOM	7260	CE1	TYR	931	-10.599	81.662	45.738	1.00123.88	C
ATOM	7261	CE2	TYR	931	-9.470	83.731	46.027	1.00123.88	C
ATOM	7262	CZ	TYR	931	-9.433	82.361	45.925	1.00123.88	C
ATOM	7263	OH	TYR	931	-8.209	81.667	46.015	1.00123.88	O
ATOM	7264	C	TYR	931	-14.875	85.345	44.249	1.00123.88	C
ATOM	7265	O	TYR	931	-14.891	86.347	43.536	1.00123.88	O
ATOM	7266	N	SER	932	-15.957	84.974	44.961	1.00 86.94	N
ATOM	7267	CA	SER	932	-16.984	85.938	45.241	1.00 86.94	C
ATOM	7268	CB	SER	932	-18.360	85.278	45.439	1.00 86.94	C
ATOM	7269	OG	SER	932	-19.344	86.263	45.714	1.00 86.94	O
ATOM	7270	C	SER	932	-16.624	86.661	46.511	1.00 86.94	C
ATOM	7271	O	SER	932	-16.295	87.848	46.521	1.00 86.94	O
ATOM	7272	N	THR	933	-16.746	85.906	47.630	1.00104.70	N
ATOM	7273	CA	THR	933	-16.435	86.279	48.982	1.00104.70	C
ATOM	7274	CB	THR	933	-15.049	85.901	49.425	1.00104.70	C
ATOM	7275	OG1	THR	933	-14.090	86.286	48.459	1.00104.70	O
ATOM	7276	CG2	THR	933	-14.998	84.378	49.637	1.00104.70	C
ATOM	7277	C	THR	933	-16.797	87.702	49.220	1.00104.70	C
ATOM	7278	O	THR	933	-16.135	88.409	49.980	1.00104.70	O
ATOM	7279	N	GLU	934	-17.919	88.113	48.600	1.00230.56	N
ATOM	7280	CA	GLU	934	-18.437	89.448	48.639	1.00230.56	C
ATOM	7281	CB	GLU	934	-17.374	90.554	48.836	1.00230.56	C
ATOM	7282	CG	GLU	934	-16.187	90.517	47.868	1.00230.56	C
ATOM	7283	CD	GLU	934	-16.489	91.409	46.673	1.00230.56	C
ATOM	7284	OE1	GLU	934	-16.296	92.649	46.795	1.00230.56	O
ATOM	7285	OE2	GLU	934	-16.931	90.863	45.628	1.00230.56	O
ATOM	7286	C	GLU	934	-19.119	89.635	47.331	1.00230.56	C
ATOM	7287	O	GLU	934	-19.424	88.657	46.660	1.00230.56	O
ATOM	7288	N	GLY	935	-19.248	90.886	46.862	1.00168.98	N
ATOM	7289	CA	GLY	935	-20.063	91.191	45.728	1.00168.98	C
ATOM	7290	C	GLY	935	-19.993	92.672	45.610	1.00168.98	C
ATOM	7291	O	GLY	935	-20.729	93.292	44.844	1.00168.98	O
ATOM	7292	N	LEU	936	-19.076	93.265	46.401	1.00163.72	N
ATOM	7293	CA	LEU	936	-18.824	94.676	46.354	1.00163.72	C
ATOM	7294	CB	LEU	936	-18.230	95.122	44.996	1.00163.72	C
ATOM	7295	CG	LEU	936	-17.551	96.518	44.919	1.00163.72	C
ATOM	7296	CD1	LEU	936	-17.227	96.870	43.457	1.00163.72	C
ATOM	7297	CD2	LEU	936	-18.297	97.647	45.651	1.00163.72	C
ATOM	7298	C	LEU	936	-20.144	95.345	46.562	1.00163.72	C
ATOM	7299	O	LEU	936	-20.581	96.184	45.778	1.00163.72	O
ATOM	7300	N	MET	937	-20.840	94.965	47.646	1.00111.56	N
ATOM	7301	CA	MET	937	-22.115	95.564	47.907	1.00111.56	C
ATOM	7302	CB	MET	937	-22.756	95.051	49.205	1.00111.56	C
ATOM	7303	CG	MET	937	-23.223	93.597	49.093	1.00111.56	C
ATOM	7304	SD	MET	937	-21.890	92.388	48.824	1.00111.56	S
ATOM	7305	CE	MET	937	-21.100	92.616	50.442	1.00111.56	C
ATOM	7306	C	MET	937	-21.924	97.052	47.991	1.00111.56	C
ATOM	7307	O	MET	937	-20.874	97.559	48.378	1.00111.56	O
ATOM	7308	N	PRO	938	-22.946	97.757	47.595	1.00 88.60	N
ATOM	7309	CA	PRO	938	-22.878	99.192	47.526	1.00 88.60	C
ATOM	7310	CD	PRO	938	-23.870	97.216	46.611	1.00 88.60	C
ATOM	7311	CB	PRO	938	-24.141	99.626	46.788	1.00 88.60	C
ATOM	7312	CG	PRO	938	-24.437	98.434	45.860	1.00 88.60	C
ATOM	7313	C	PRO	938	-22.665	99.858	48.851	1.00 88.60	C
ATOM	7314	O	PRO	938	-22.411	101.061	48.849	1.00 88.60	O
ATOM	7315	N	ASN	939	-22.886	99.128	49.966	1.00 87.65	N
ATOM	7316	CA	ASN	939	-22.709	99.553	51.337	1.00 87.65	C
ATOM	7317	CB	ASN	939	-23.604	98.783	52.322	1.00 87.65	C
ATOM	7318	CG	ASN	939	-23.239	97.310	52.248	1.00 87.65	C
ATOM	7319	OD1	ASN	939	-23.597	96.619	51.296	1.00 87.65	O

ATOM	7320	ND2	ASN	939	-22.505	96.811	53.279	1.00	87.65	N
ATOM	7321	C	ASN	939	-21.288	99.437	51.845	1.00	87.65	C
ATOM	7322	O	ASN	939	-20.898	100.159	52.761	1.00	87.65	O
ATOM	7323	N	THR	940	-20.473	98.551	51.240	1.00	167.15	N
ATOM	7324	CA	THR	940	-19.173	98.100	51.683	1.00	167.15	C
ATOM	7325	CB	THR	940	-18.564	97.097	50.751	1.00	167.15	C
ATOM	7326	OG1	THR	940	-17.422	96.508	51.353	1.00	167.15	O
ATOM	7327	CG2	THR	940	-18.171	97.808	49.444	1.00	167.15	C
ATOM	7328	C	THR	940	-18.200	99.233	51.822	1.00	167.15	C
ATOM	7329	O	THR	940	-17.043	99.031	52.178	1.00	167.15	O
ATOM	7330	N	LEU	941	-18.632	100.438	51.449	1.00	110.06	N
ATOM	7331	CA	LEU	941	-17.903	101.672	51.409	1.00	110.06	C
ATOM	7332	CB	LEU	941	-18.793	102.779	50.833	1.00	110.06	C
ATOM	7333	CG	LEU	941	-19.311	102.407	49.433	1.00	110.06	C
ATOM	7334	CD1	LEU	941	-20.365	103.402	48.941	1.00	110.06	C
ATOM	7335	CD2	LEU	941	-18.154	102.228	48.438	1.00	110.06	C
ATOM	7336	C	LEU	941	-17.396	102.141	52.755	1.00	110.06	C
ATOM	7337	O	LEU	941	-16.436	102.909	52.781	1.00	110.06	O
ATOM	7338	N	GLU	942	-18.008	101.754	53.901	1.00	124.66	N
ATOM	7339	CA	GLU	942	-17.616	102.361	55.158	1.00	124.66	C
ATOM	7340	CB	GLU	942	-18.323	101.758	56.382	1.00	124.66	C
ATOM	7341	CG	GLU	942	-19.714	102.347	56.613	1.00	124.66	C
ATOM	7342	CD	GLU	942	-19.487	103.784	57.065	1.00	124.66	C
ATOM	7343	OE1	GLU	942	-18.293	104.168	57.180	1.00	124.66	O
ATOM	7344	OE2	GLU	942	-20.487	104.514	57.299	1.00	124.66	O
ATOM	7345	C	GLU	942	-16.134	102.275	55.407	1.00	124.66	C
ATOM	7346	O	GLU	942	-15.480	103.315	55.470	1.00	124.66	O
ATOM	7347	N	GLY	943	-15.533	101.069	55.460	1.00	53.06	N
ATOM	7348	CA	GLY	943	-14.104	101.032	55.610	1.00	53.06	C
ATOM	7349	C	GLY	943	-13.629	101.012	57.039	1.00	53.06	C
ATOM	7350	O	GLY	943	-12.601	101.616	57.347	1.00	53.06	O
ATOM	7351	N	ASN	944	-14.350	100.334	57.956	1.00	62.22	N
ATOM	7352	CA	ASN	944	-13.866	100.197	59.309	1.00	62.22	C
ATOM	7353	CB	ASN	944	-14.983	100.066	60.361	1.00	62.22	C
ATOM	7354	CG	ASN	944	-15.757	101.374	60.462	1.00	62.22	C
ATOM	7355	OD1	ASN	944	-15.426	102.366	59.816	1.00	62.22	O
ATOM	7356	ND2	ASN	944	-16.818	101.380	61.313	1.00	62.22	N
ATOM	7357	C	ASN	944	-13.096	98.903	59.355	1.00	62.22	C
ATOM	7358	O	ASN	944	-13.645	97.850	59.035	1.00	62.22	O
ATOM	7359	N	VAL	945	-11.803	98.938	59.762	1.00	64.59	N
ATOM	7360	CA	VAL	945	-10.993	97.741	59.724	1.00	64.59	C
ATOM	7361	CB	VAL	945	-9.570	98.009	59.318	1.00	64.59	C
ATOM	7362	CG1	VAL	945	-8.791	96.682	59.342	1.00	64.59	C
ATOM	7363	CG2	VAL	945	-9.566	98.715	57.949	1.00	64.59	C
ATOM	7364	C	VAL	945	-10.957	97.043	61.057	1.00	64.59	C
ATOM	7365	O	VAL	945	-10.827	97.673	62.106	1.00	64.59	O
ATOM	7366	N	THR	946	-11.054	95.692	61.061	1.00	124.93	N
ATOM	7367	CA	THR	946	-11.016	95.029	62.333	1.00	124.93	C
ATOM	7368	CB	THR	946	-12.328	94.434	62.775	1.00	124.93	C
ATOM	7369	OG1	THR	946	-12.262	94.086	64.151	1.00	124.93	O
ATOM	7370	CG2	THR	946	-12.634	93.185	61.941	1.00	124.93	C
ATOM	7371	C	THR	946	-9.976	93.955	62.343	1.00	124.93	C
ATOM	7372	O	THR	946	-9.932	93.104	61.459	1.00	124.93	O
ATOM	7373	N	PHE	947	-9.086	93.978	63.356	1.00	86.31	N
ATOM	7374	CA	PHE	947	-8.114	92.934	63.492	1.00	86.31	C
ATOM	7375	CB	PHE	947	-6.644	93.389	63.582	1.00	86.31	C
ATOM	7376	CG	PHE	947	-6.090	93.578	62.215	1.00	86.31	C
ATOM	7377	CD1	PHE	947	-5.831	92.470	61.444	1.00	86.31	C
ATOM	7378	CD2	PHE	947	-5.795	94.825	61.715	1.00	86.31	C
ATOM	7379	CE1	PHE	947	-5.310	92.594	60.181	1.00	86.31	C
ATOM	7380	CE2	PHE	947	-5.272	94.955	60.449	1.00	86.31	C
ATOM	7381	CZ	PHE	947	-5.031	93.841	59.679	1.00	86.31	C
ATOM	7382	C	PHE	947	-8.379	92.221	64.773	1.00	86.31	C
ATOM	7383	O	PHE	947	-8.378	92.819	65.850	1.00	86.31	O
ATOM	7384	N	GLY	948	-8.578	90.894	64.693	1.00	45.23	N
ATOM	7385	CA	GLY	948	-8.852	90.193	65.907	1.00	45.23	C
ATOM	7386	C	GLY	948	-8.024	88.949	65.965	1.00	45.23	C
ATOM	7387	O	GLY	948	-7.977	88.147	65.035	1.00	45.23	O
ATOM	7388	N	GLU	949	-7.327	88.801	67.100	1.00	140.24	N
ATOM	7389	CA	GLU	949	-6.548	87.669	67.496	1.00	140.24	C
ATOM	7390	CB	GLU	949	-7.344	86.353	67.450	1.00	140.24	C
ATOM	7391	CG	GLU	949	-8.509	86.308	68.440	1.00	140.24	C
ATOM	7392	CD	GLU	949	-9.612	87.203	67.895	1.00	140.24	C
ATOM	7393	OE1	GLU	949	-9.941	87.068	66.686	1.00	140.24	O

ATOM	7394	OE2	GLU	949	-10.135	88.039	68.679	1.00140.24	O
ATOM	7395	C	GLU	949	-5.349	87.500	66.626	1.00140.24	C
ATOM	7396	O	GLU	949	-4.409	86.851	67.080	1.00140.24	O
ATOM	7397	N	VAL	950	-5.288	88.233	65.483	1.00168.48	N
ATOM	7398	CA	VAL	950	-4.309	88.064	64.436	1.00168.48	C
ATOM	7399	CB	VAL	950	-4.141	89.274	63.562	1.00168.48	C
ATOM	7400	CG1	VAL	950	-5.384	89.393	62.681	1.00168.48	C
ATOM	7401	CG2	VAL	950	-3.949	90.516	64.447	1.00168.48	C
ATOM	7402	C	VAL	950	-2.968	87.648	64.948	1.00168.48	C
ATOM	7403	O	VAL	950	-2.282	88.370	65.669	1.00168.48	O
ATOM	7404	N	VAL	951	-2.597	86.406	64.578	1.00134.84	N
ATOM	7405	CA	VAL	951	-1.362	85.800	64.976	1.00134.84	C
ATOM	7406	CB	VAL	951	-1.583	84.566	65.795	1.00134.84	C
ATOM	7407	CG1	VAL	951	-0.220	83.994	66.172	1.00134.84	C
ATOM	7408	CG2	VAL	951	-2.474	84.902	66.999	1.00134.84	C
ATOM	7409	C	VAL	951	-0.716	85.357	63.696	1.00134.84	C
ATOM	7410	O	VAL	951	-1.395	84.771	62.856	1.00134.84	O
ATOM	7411	N	PHE	952	0.601	85.614	63.493	1.00104.31	N
ATOM	7412	CA	PHE	952	1.140	85.238	62.208	1.00104.31	C
ATOM	7413	CB	PHE	952	0.420	86.026	61.096	1.00104.31	C
ATOM	7414	CG	PHE	952	1.275	86.094	59.883	1.00104.31	C
ATOM	7415	CD1	PHE	952	1.333	85.067	58.969	1.00104.31	C
ATOM	7416	CD2	PHE	952	2.020	87.231	59.668	1.00104.31	C
ATOM	7417	CE1	PHE	952	2.137	85.179	57.859	1.00104.31	C
ATOM	7418	CE2	PHE	952	2.824	87.348	58.562	1.00104.31	C
ATOM	7419	CZ	PHE	952	2.883	86.317	57.655	1.00104.31	C
ATOM	7420	C	PHE	952	2.626	85.473	62.066	1.00104.31	C
ATOM	7421	O	PHE	952	3.179	86.419	62.627	1.00104.31	O
ATOM	7422	N	ASN	953	3.308	84.591	61.284	1.00 82.44	N
ATOM	7423	CA	ASN	953	4.708	84.739	60.963	1.00 82.44	C
ATOM	7424	CB	ASN	953	5.657	83.898	61.828	1.00 82.44	C
ATOM	7425	CG	ASN	953	7.074	84.284	61.423	1.00 82.44	C
ATOM	7426	OD1	ASN	953	7.729	83.578	60.658	1.00 82.44	O
ATOM	7427	ND2	ASN	953	7.548	85.459	61.917	1.00 82.44	N
ATOM	7428	C	ASN	953	4.934	84.308	59.538	1.00 82.44	C
ATOM	7429	O	ASN	953	4.670	83.162	59.174	1.00 82.44	O
ATOM	7430	N	TYR	954	5.496	85.209	58.700	1.00 97.66	N
ATOM	7431	CA	TYR	954	5.698	84.894	57.309	1.00 97.66	C
ATOM	7432	CB	TYR	954	6.294	86.049	56.473	1.00 97.66	C
ATOM	7433	CG	TYR	954	7.623	86.461	57.014	1.00 97.66	C
ATOM	7434	CD1	TYR	954	7.711	87.191	58.178	1.00 97.66	C
ATOM	7435	CD2	TYR	954	8.779	86.146	56.338	1.00 97.66	C
ATOM	7436	CE1	TYR	954	8.935	87.580	58.672	1.00 97.66	C
ATOM	7437	CE2	TYR	954	10.005	86.533	56.826	1.00 97.66	C
ATOM	7438	CZ	TYR	954	10.086	87.249	57.995	1.00 97.66	C
ATOM	7439	OH	TYR	954	11.345	87.645	58.495	1.00 97.66	O
ATOM	7440	C	TYR	954	6.584	83.703	57.230	1.00 97.66	C
ATOM	7441	O	TYR	954	7.614	83.643	57.897	1.00 97.66	O
ATOM	7442	N	PRO	955	6.195	82.774	56.388	1.00136.45	N
ATOM	7443	CA	PRO	955	6.793	81.473	56.283	1.00136.45	C
ATOM	7444	CD	PRO	955	5.123	82.972	55.429	1.00136.45	C
ATOM	7445	CB	PRO	955	6.246	80.858	54.996	1.00136.45	C
ATOM	7446	CG	PRO	955	4.900	81.582	54.801	1.00136.45	C
ATOM	7447	C	PRO	955	8.276	81.464	56.403	1.00136.45	C
ATOM	7448	O	PRO	955	9.010	81.664	55.437	1.00136.45	O
ATOM	7449	N	THR	956	8.677	81.259	57.662	1.00239.50	N
ATOM	7450	CA	THR	956	9.965	81.098	58.243	1.00239.50	C
ATOM	7451	CB	THR	956	10.839	82.305	58.086	1.00239.50	C
ATOM	7452	OG1	THR	956	12.136	82.046	58.605	1.00239.50	O
ATOM	7453	CG2	THR	956	10.191	83.488	58.824	1.00239.50	C
ATOM	7454	C	THR	956	9.549	81.021	59.674	1.00239.50	C
ATOM	7455	O	THR	956	10.278	81.394	60.592	1.00239.50	O
ATOM	7456	N	ARG	957	8.363	80.406	59.854	1.00180.23	N
ATOM	7457	CA	ARG	957	7.544	80.323	61.031	1.00180.23	C
ATOM	7458	CB	ARG	957	6.311	79.423	60.821	1.00180.23	C
ATOM	7459	CG	ARG	957	5.367	79.966	59.744	1.00180.23	C
ATOM	7460	CD	ARG	957	4.231	79.021	59.341	1.00180.23	C
ATOM	7461	NE	ARG	957	3.034	79.359	60.161	1.00180.23	N
ATOM	7462	CZ	ARG	957	2.729	78.618	61.266	1.00180.23	C
ATOM	7463	NH1	ARG	957	3.500	77.542	61.596	1.00180.23	N
ATOM	7464	NH2	ARG	957	1.648	78.945	62.031	1.00180.23	N
ATOM	7465	C	ARG	957	8.318	79.797	62.202	1.00180.23	C
ATOM	7466	O	ARG	957	7.916	80.090	63.325	1.00180.23	O
ATOM	7467	N	PRO	958	9.362	79.026	62.074	1.00 94.34	N

ATOM	7468	CA	PRO	958	10.058	78.612	63.260	1.00	94.34	C
ATOM	7469	CD	PRO	958	9.530	78.045	61.016	1.00	94.34	C
ATOM	7470	CB	PRO	958	11.110	77.598	62.798	1.00	94.34	C
ATOM	7471	CG	PRO	958	10.954	77.531	61.262	1.00	94.34	C
ATOM	7472	C	PRO	958	10.588	79.795	64.012	1.00	94.34	C
ATOM	7473	O	PRO	958	10.868	79.675	65.203	1.00	94.34	O
ATOM	7474	N	ASP	959	10.723	80.941	63.329	1.00	145.55	N
ATOM	7475	CA	ASP	959	11.169	82.182	63.891	1.00	145.55	C
ATOM	7476	CB	ASP	959	11.377	83.285	62.838	1.00	145.55	C
ATOM	7477	CG	ASP	959	12.085	84.457	63.509	1.00	145.55	C
ATOM	7478	OD1	ASP	959	12.543	84.291	64.671	1.00	145.55	O
ATOM	7479	OD2	ASP	959	12.180	85.536	62.865	1.00	145.55	O
ATOM	7480	C	ASP	959	10.093	82.650	64.820	1.00	145.55	C
ATOM	7481	O	ASP	959	10.208	83.690	65.464	1.00	145.55	O
ATOM	7482	N	ILE	960	8.941	81.958	64.830	1.00	132.69	N
ATOM	7483	CA	ILE	960	7.866	82.407	65.663	1.00	132.69	C
ATOM	7484	CB	ILE	960	8.235	82.700	67.093	1.00	132.69	C
ATOM	7485	CG1	ILE	960	8.691	81.409	67.798	1.00	132.69	C
ATOM	7486	CG2	ILE	960	7.033	83.377	67.776	1.00	132.69	C
ATOM	7487	CD1	ILE	960	9.324	81.650	69.167	1.00	132.69	C
ATOM	7488	C	ILE	960	7.323	83.640	65.019	1.00	132.69	C
ATOM	7489	O	ILE	960	8.017	84.341	64.284	1.00	132.69	O
ATOM	7490	N	PRO	961	6.055	83.844	65.211	1.00	96.14	N
ATOM	7491	CA	PRO	961	5.389	84.968	64.605	1.00	96.14	C
ATOM	7492	CD	PRO	961	5.175	82.691	65.331	1.00	96.14	C
ATOM	7493	CB	PRO	961	3.901	84.637	64.683	1.00	96.14	C
ATOM	7494	CG	PRO	961	3.856	83.102	64.669	1.00	96.14	C
ATOM	7495	C	PRO	961	5.701	86.327	65.163	1.00	96.14	C
ATOM	7496	O	PRO	961	6.061	86.449	66.333	1.00	96.14	O
ATOM	7497	N	VAL	962	5.619	87.350	64.286	1.00	144.27	N
ATOM	7498	CA	VAL	962	5.749	88.756	64.549	1.00	144.27	C
ATOM	7499	CB	VAL	962	5.919	89.539	63.280	1.00	144.27	C
ATOM	7500	CG1	VAL	962	6.044	91.025	63.633	1.00	144.27	C
ATOM	7501	CG2	VAL	962	7.104	88.969	62.484	1.00	144.27	C
ATOM	7502	C	VAL	962	4.475	89.231	65.180	1.00	144.27	C
ATOM	7503	O	VAL	962	4.454	90.261	65.851	1.00	144.27	O
ATOM	7504	N	LEU	963	3.357	88.538	64.878	1.00	114.55	N
ATOM	7505	CA	LEU	963	2.079	88.922	65.409	1.00	114.55	C
ATOM	7506	CB	LEU	963	0.990	89.111	64.335	1.00	114.55	C
ATOM	7507	CG	LEU	963	1.331	90.195	63.298	1.00	114.55	C
ATOM	7508	CD1	LEU	963	1.536	91.562	63.971	1.00	114.55	C
ATOM	7509	CD2	LEU	963	2.514	89.772	62.413	1.00	114.55	C
ATOM	7510	C	LEU	963	1.606	87.811	66.281	1.00	114.55	C
ATOM	7511	O	LEU	963	1.291	86.723	65.803	1.00	114.55	O
ATOM	7512	N	GLN	964	1.524	88.068	67.597	1.00	142.98	N
ATOM	7513	CA	GLN	964	1.126	87.034	68.498	1.00	142.98	C
ATOM	7514	CB	GLN	964	2.238	86.746	69.512	1.00	142.98	C
ATOM	7515	CG	GLN	964	1.907	85.661	70.525	1.00	142.98	C
ATOM	7516	CD	GLN	964	3.069	85.613	71.503	1.00	142.98	C
ATOM	7517	OE1	GLN	964	4.227	85.508	71.101	1.00	142.98	O
ATOM	7518	NE2	GLN	964	2.760	85.711	72.824	1.00	142.98	N
ATOM	7519	C	GLN	964	-0.053	87.516	69.284	1.00	142.98	C
ATOM	7520	O	GLN	964	0.118	88.098	70.354	1.00	142.98	O
ATOM	7521	N	GLY	965	-1.285	87.231	68.809	1.00	35.59	N
ATOM	7522	CA	GLY	965	-2.455	87.625	69.546	1.00	35.59	C
ATOM	7523	C	GLY	965	-2.689	89.103	69.428	1.00	35.59	C
ATOM	7524	O	GLY	965	-2.866	89.786	70.436	1.00	35.59	O
ATOM	7525	N	LEU	966	-2.707	89.634	68.188	1.00	67.29	N
ATOM	7526	CA	LEU	966	-2.874	91.049	67.985	1.00	67.29	C
ATOM	7527	CB	LEU	966	-2.040	91.571	66.804	1.00	67.29	C
ATOM	7528	CG	LEU	966	-2.203	93.077	66.553	1.00	67.29	C
ATOM	7529	CD1	LEU	966	-1.711	93.887	67.759	1.00	67.29	C
ATOM	7530	CD2	LEU	966	-1.536	93.496	65.233	1.00	67.29	C
ATOM	7531	C	LEU	966	-4.309	91.382	67.682	1.00	67.29	C
ATOM	7532	O	LEU	966	-5.005	90.616	67.017	1.00	67.29	O
ATOM	7533	N	SER	967	-4.796	92.539	68.199	1.00	62.70	N
ATOM	7534	CA	SER	967	-6.135	92.984	67.910	1.00	62.70	C
ATOM	7535	CB	SER	967	-7.186	92.397	68.867	1.00	62.70	C
ATOM	7536	OG	SER	967	-7.235	90.985	68.724	1.00	62.70	O
ATOM	7537	C	SER	967	-6.217	94.489	68.019	1.00	62.70	C
ATOM	7538	O	SER	967	-5.918	95.069	69.063	1.00	62.70	O
ATOM	7539	N	LEU	968	-6.657	95.157	66.927	1.00	124.82	N
ATOM	7540	CA	LEU	968	-6.808	96.591	66.878	1.00	124.82	C
ATOM	7541	CB	LEU	968	-5.637	97.325	66.203	1.00	124.82	C

ATOM	7542	CG	LEU	968	-4.255	96.964	66.775	1.00124.82	C
ATOM	7543	CD1	LEU	968	-4.166	97.251	68.281	1.00124.82	C
ATOM	7544	CD2	LEU	968	-3.866	95.528	66.398	1.00124.82	C
ATOM	7545	C	LEU	968	-7.997	96.845	66.001	1.00124.82	C
ATOM	7546	O	LEU	968	-8.729	95.920	65.653	1.00124.82	O
ATOM	7547	N	GLU	969	-8.249	98.124	65.654	1.00113.38	N
ATOM	7548	CA	GLU	969	-9.334	98.430	64.762	1.00113.38	C
ATOM	7549	CB	GLU	969	-10.708	98.478	65.433	1.00113.38	C
ATOM	7550	CG	GLU	969	-10.825	99.727	66.308	1.00113.38	C
ATOM	7551	CD	GLU	969	-12.283	99.975	66.644	1.00113.38	C
ATOM	7552	OE1	GLU	969	-13.142	99.889	65.725	1.00113.38	O
ATOM	7553	OE2	GLU	969	-12.553	100.266	67.837	1.00113.38	O
ATOM	7554	C	GLU	969	-9.145	99.843	64.315	1.00113.38	C
ATOM	7555	O	GLU	969	-8.285	100.562	64.822	1.00113.38	O
ATOM	7556	N	VAL	970	-9.949	100.271	63.323	1.00125.87	N
ATOM	7557	CA	VAL	970	-9.896	101.637	62.895	1.00125.87	C
ATOM	7558	CB	VAL	970	-8.935	101.852	61.752	1.00125.87	C
ATOM	7559	CG1	VAL	970	-9.430	101.086	60.513	1.00125.87	C
ATOM	7560	CG2	VAL	970	-8.755	103.361	61.527	1.00125.87	C
ATOM	7561	C	VAL	970	-11.276	102.031	62.451	1.00125.87	C
ATOM	7562	O	VAL	970	-11.910	101.340	61.654	1.00125.87	O
ATOM	7563	N	LYS	971	-11.762	103.193	62.932	1.00102.30	N
ATOM	7564	CA	LYS	971	-13.072	103.684	62.600	1.00102.30	C
ATOM	7565	CB	LYS	971	-13.472	104.946	63.380	1.00102.30	C
ATOM	7566	CG	LYS	971	-13.649	104.702	64.879	1.00102.30	C
ATOM	7567	CD	LYS	971	-12.342	104.357	65.597	1.00102.30	C
ATOM	7568	CE	LYS	971	-12.506	104.139	67.102	1.00102.30	C
ATOM	7569	NZ	LYS	971	-11.203	103.781	67.703	1.00102.30	N
ATOM	7570	C	LYS	971	-13.076	104.030	61.145	1.00102.30	C
ATOM	7571	O	LYS	971	-12.256	103.532	60.376	1.00102.30	O
ATOM	7572	N	LYS	972	-14.053	104.847	60.704	1.00165.19	N
ATOM	7573	CA	LYS	972	-14.072	105.156	59.305	1.00165.19	C
ATOM	7574	CB	LYS	972	-15.414	104.841	58.613	1.00165.19	C
ATOM	7575	CG	LYS	972	-16.633	105.589	59.159	1.00165.19	C
ATOM	7576	CD	LYS	972	-16.738	107.049	58.718	1.00165.19	C
ATOM	7577	CE	LYS	972	-17.295	107.218	57.303	1.00165.19	C
ATOM	7578	NZ	LYS	972	-17.485	108.652	56.995	1.00165.19	N
ATOM	7579	C	LYS	972	-13.720	106.595	59.084	1.00165.19	C
ATOM	7580	O	LYS	972	-13.704	107.409	60.004	1.00165.19	O
ATOM	7581	N	GLY	973	-13.311	106.905	57.839	1.00 49.88	N
ATOM	7582	CA	GLY	973	-13.029	108.244	57.408	1.00 49.88	C
ATOM	7583	C	GLY	973	-12.041	108.880	58.339	1.00 49.88	C
ATOM	7584	O	GLY	973	-12.003	110.105	58.439	1.00 49.88	O
ATOM	7585	N	GLN	974	-11.190	108.084	59.020	1.00137.71	N
ATOM	7586	CA	GLN	974	-10.314	108.658	60.007	1.00137.71	C
ATOM	7587	CB	GLN	974	-10.870	108.503	61.437	1.00137.71	C
ATOM	7588	CG	GLN	974	-11.457	107.127	61.767	1.00137.71	C
ATOM	7589	CD	GLN	974	-10.388	106.057	61.753	1.00137.71	C
ATOM	7590	OE1	GLN	974	-9.788	105.772	60.718	1.00137.71	O
ATOM	7591	NE2	GLN	974	-10.160	105.426	62.936	1.00137.71	N
ATOM	7592	C	GLN	974	-8.876	108.218	59.878	1.00137.71	C
ATOM	7593	O	GLN	974	-8.392	107.991	58.770	1.00137.71	O
ATOM	7594	N	THR	975	-8.111	108.189	61.002	1.00 89.10	N
ATOM	7595	CA	THR	975	-6.711	107.860	60.860	1.00 89.10	C
ATOM	7596	CB	THR	975	-5.835	109.082	60.817	1.00 89.10	C
ATOM	7597	OG1	THR	975	-6.227	109.930	59.748	1.00 89.10	O
ATOM	7598	CG2	THR	975	-4.372	108.644	60.627	1.00 89.10	C
ATOM	7599	C	THR	975	-6.180	107.001	61.978	1.00 89.10	C
ATOM	7600	O	THR	975	-6.016	107.451	63.114	1.00 89.10	O
ATOM	7601	N	LEU	976	-5.810	105.746	61.645	1.00 93.59	N
ATOM	7602	CA	LEU	976	-5.230	104.858	62.615	1.00 93.59	C
ATOM	7603	CB	LEU	976	-5.531	103.377	62.346	1.00 93.59	C
ATOM	7604	CG	LEU	976	-4.662	102.423	63.179	1.00 93.59	C
ATOM	7605	CD1	LEU	976	-4.615	102.829	64.656	1.00 93.59	C
ATOM	7606	CD2	LEU	976	-5.142	100.979	63.008	1.00 93.59	C
ATOM	7607	C	LEU	976	-3.748	105.064	62.619	1.00 93.59	C
ATOM	7608	O	LEU	976	-3.068	104.850	61.616	1.00 93.59	O
ATOM	7609	N	ALA	977	-3.209	105.478	63.785	1.00 55.89	N
ATOM	7610	CA	ALA	977	-1.810	105.790	63.894	1.00 55.89	C
ATOM	7611	CB	ALA	977	-1.506	106.961	64.844	1.00 55.89	C
ATOM	7612	C	ALA	977	-1.064	104.600	64.393	1.00 55.89	C
ATOM	7613	O	ALA	977	-1.409	103.997	65.409	1.00 55.89	O
ATOM	7614	N	LEU	978	0.017	104.232	63.683	1.00135.19	N
ATOM	7615	CA	LEU	978	0.690	103.068	64.155	1.00135.19	C

ATOM	7616	CB	LEU	978	0.654	101.909	63.145	1.00135.19	C
ATOM	7617	CG	LEU	978	1.018	100.533	63.732	1.00135.19	C
ATOM	7618	CD1	LEU	978	2.460	100.484	64.255	1.00135.19	C
ATOM	7619	CD2	LEU	978	-0.019	100.100	64.781	1.00135.19	C
ATOM	7620	C	LEU	978	2.114	103.402	64.478	1.00135.19	C
ATOM	7621	O	LEU	978	2.843	103.974	63.666	1.00135.19	O
ATOM	7622	N	VAL	979	2.523	103.070	65.721	1.00121.03	N
ATOM	7623	CA	VAL	979	3.884	103.240	66.142	1.00121.03	C
ATOM	7624	CB	VAL	979	4.055	104.354	67.140	1.00121.03	C
ATOM	7625	CG1	VAL	979	3.088	104.135	68.316	1.00121.03	C
ATOM	7626	CG2	VAL	979	5.535	104.420	67.555	1.00121.03	C
ATOM	7627	C	VAL	979	4.332	101.946	66.760	1.00121.03	C
ATOM	7628	O	VAL	979	3.858	101.552	67.826	1.00121.03	O
ATOM	7629	N	GLY	980	5.257	101.233	66.083	1.00 48.73	N
ATOM	7630	CA	GLY	980	5.736	99.980	66.593	1.00 48.73	C
ATOM	7631	C	GLY	980	7.175	100.103	66.988	1.00 48.73	C
ATOM	7632	O	GLY	980	7.704	101.201	67.167	1.00 48.73	O
ATOM	7633	N	SER	981	7.824	98.932	67.172	1.00106.27	N
ATOM	7634	CA	SER	981	9.217	98.822	67.508	1.00106.27	C
ATOM	7635	CB	SER	981	9.621	97.370	67.806	1.00106.27	C
ATOM	7636	OG	SER	981	11.029	97.272	67.937	1.00106.27	O
ATOM	7637	C	SER	981	10.059	99.283	66.362	1.00106.27	C
ATOM	7638	O	SER	981	10.621	100.378	66.373	1.00106.27	O
ATOM	7639	N	SER	982	10.159	98.426	65.326	1.00 91.28	N
ATOM	7640	CA	SER	982	10.937	98.749	64.169	1.00 91.28	C
ATOM	7641	CB	SER	982	12.439	98.912	64.460	1.00 91.28	C
ATOM	7642	OG	SER	982	12.994	97.673	64.880	1.00 91.28	O
ATOM	7643	C	SER	982	10.796	97.620	63.204	1.00 91.28	C
ATOM	7644	O	SER	982	10.504	96.488	63.589	1.00 91.28	O
ATOM	7645	N	GLY	983	10.999	97.921	61.908	1.00 30.88	N
ATOM	7646	CA	GLY	983	10.967	96.926	60.878	1.00 30.88	C
ATOM	7647	C	GLY	983	9.634	96.253	60.841	1.00 30.88	C
ATOM	7648	O	GLY	983	8.606	96.867	60.557	1.00 30.88	O
ATOM	7649	N	CYS	984	9.635	94.942	61.142	1.00 58.16	N
ATOM	7650	CA	CYS	984	8.459	94.135	61.034	1.00 58.16	C
ATOM	7651	CB	CYS	984	8.691	92.655	61.383	1.00 58.16	C
ATOM	7652	SG	CYS	984	9.807	91.823	60.215	1.00 58.16	S
ATOM	7653	C	CYS	984	7.405	94.641	61.958	1.00 58.16	C
ATOM	7654	O	CYS	984	7.646	95.489	62.814	1.00 58.16	O
ATOM	7655	N	GLY	985	6.168	94.160	61.732	1.00 48.82	N
ATOM	7656	CA	GLY	985	5.043	94.480	62.558	1.00 48.82	C
ATOM	7657	C	GLY	985	4.175	95.440	61.819	1.00 48.82	C
ATOM	7658	O	GLY	985	3.024	95.145	61.503	1.00 48.82	O
ATOM	7659	N	LYS	986	4.730	96.617	61.497	1.00 64.50	N
ATOM	7660	CA	LYS	986	3.980	97.617	60.795	1.00 64.50	C
ATOM	7661	CB	LYS	986	4.794	98.902	60.598	1.00 64.50	C
ATOM	7662	CG	LYS	986	5.343	99.477	61.903	1.00 64.50	C
ATOM	7663	CD	LYS	986	6.472	100.482	61.680	1.00 64.50	C
ATOM	7664	CE	LYS	986	7.208	100.869	62.963	1.00 64.50	C
ATOM	7665	NZ	LYS	986	8.427	101.635	62.626	1.00 64.50	N
ATOM	7666	C	LYS	986	3.709	97.082	59.427	1.00 64.50	C
ATOM	7667	O	LYS	986	2.614	97.218	58.881	1.00 64.50	O
ATOM	7668	N	SER	987	4.744	96.458	58.840	1.00 96.57	N
ATOM	7669	CA	SER	987	4.676	95.956	57.503	1.00 96.57	C
ATOM	7670	CB	SER	987	6.008	95.343	57.058	1.00 96.57	C
ATOM	7671	OG	SER	987	7.052	96.281	57.257	1.00 96.57	O
ATOM	7672	C	SER	987	3.679	94.848	57.453	1.00 96.57	C
ATOM	7673	O	SER	987	2.779	94.854	56.615	1.00 96.57	O
ATOM	7674	N	THR	988	3.806	93.891	58.394	1.00 52.61	N
ATOM	7675	CA	THR	988	3.003	92.703	58.399	1.00 52.61	C
ATOM	7676	CB	THR	988	3.337	91.784	59.542	1.00 52.61	C
ATOM	7677	OG1	THR	988	3.118	92.438	60.783	1.00 52.61	O
ATOM	7678	CG2	THR	988	4.810	91.356	59.423	1.00 52.61	C
ATOM	7679	C	THR	988	1.567	93.080	58.519	1.00 52.61	C
ATOM	7680	O	THR	988	0.714	92.507	57.842	1.00 52.61	O
ATOM	7681	N	VAL	989	1.254	94.058	59.386	1.00 46.98	N
ATOM	7682	CA	VAL	989	-0.120	94.429	59.557	1.00 46.98	C
ATOM	7683	CB	VAL	989	-0.297	95.551	60.537	1.00 46.98	C
ATOM	7684	CG1	VAL	989	-1.776	95.969	60.546	1.00 46.98	C
ATOM	7685	CG2	VAL	989	0.223	95.086	61.907	1.00 46.98	C
ATOM	7686	C	VAL	989	-0.659	94.896	58.243	1.00 46.98	C
ATOM	7687	O	VAL	989	-1.670	94.383	57.765	1.00 46.98	O
ATOM	7688	N	VAL	990	0.053	95.831	57.587	1.00 54.84	N
ATOM	7689	CA	VAL	990	-0.425	96.411	56.362	1.00 54.84	C



ATOM	7690	CB	VAL	990	0.600	97.329	55.755	1.00	54.84	C
ATOM	7691	CG1	VAL	990	0.101	97.815	54.385	1.00	54.84	C
ATOM	7692	CG2	VAL	990	0.896	98.458	56.758	1.00	54.84	C
ATOM	7693	C	VAL	990	-0.660	95.303	55.393	1.00	54.84	C
ATOM	7694	O	VAL	990	-1.744	95.161	54.828	1.00	54.84	O
ATOM	7695	N	GLN	991	0.338	94.425	55.250	1.00	94.13	N
ATOM	7696	CA	GLN	991	0.253	93.374	54.291	1.00	94.13	C
ATOM	7697	CB	GLN	991	1.535	92.528	54.315	1.00	94.13	C
ATOM	7698	CG	GLN	991	2.718	93.358	53.805	1.00	94.13	C
ATOM	7699	CD	GLN	991	4.031	92.789	54.318	1.00	94.13	C
ATOM	7700	OE1	GLN	991	5.018	93.512	54.446	1.00	94.13	O
ATOM	7701	NE2	GLN	991	4.050	91.468	54.634	1.00	94.13	N
ATOM	7702	C	GLN	991	-0.949	92.547	54.607	1.00	94.13	C
ATOM	7703	O	GLN	991	-1.734	92.248	53.714	1.00	94.13	O
ATOM	7704	N	LEU	992	-1.199	92.253	55.895	1.00	67.17	N
ATOM	7705	CA	LEU	992	-2.291	91.392	56.257	1.00	67.17	C
ATOM	7706	CB	LEU	992	-2.452	91.234	57.780	1.00	67.17	C
ATOM	7707	CG	LEU	992	-1.304	90.444	58.438	1.00	67.17	C
ATOM	7708	CD1	LEU	992	-1.506	90.311	59.956	1.00	67.17	C
ATOM	7709	CD2	LEU	992	-1.111	89.081	57.753	1.00	67.17	C
ATOM	7710	C	LEU	992	-3.579	91.954	55.728	1.00	67.17	C
ATOM	7711	O	LEU	992	-4.443	91.200	55.287	1.00	67.17	O
ATOM	7712	N	LEU	993	-3.749	93.290	55.772	1.00	126.34	N
ATOM	7713	CA	LEU	993	-4.941	93.937	55.279	1.00	126.34	C
ATOM	7714	CB	LEU	993	-4.834	95.472	55.418	1.00	126.34	C
ATOM	7715	CG	LEU	993	-6.060	96.316	54.996	1.00	126.34	C
ATOM	7716	CD1	LEU	993	-6.418	96.199	53.506	1.00	126.34	C
ATOM	7717	CD2	LEU	993	-7.252	96.058	55.921	1.00	126.34	C
ATOM	7718	C	LEU	993	-5.006	93.644	53.815	1.00	126.34	C
ATOM	7719	O	LEU	993	-6.067	93.373	53.252	1.00	126.34	O
ATOM	7720	N	GLU	994	-3.832	93.719	53.173	1.00	139.58	N
ATOM	7721	CA	GLU	994	-3.642	93.439	51.785	1.00	139.58	C
ATOM	7722	CB	GLU	994	-2.236	93.789	51.273	1.00	139.58	C
ATOM	7723	CG	GLU	994	-2.053	95.288	51.029	1.00	139.58	C
ATOM	7724	CD	GLU	994	-2.830	95.644	49.766	1.00	139.58	C
ATOM	7725	OE1	GLU	994	-3.912	95.041	49.531	1.00	139.58	O
ATOM	7726	OE2	GLU	994	-2.338	96.524	49.011	1.00	139.58	O
ATOM	7727	C	GLU	994	-3.871	91.975	51.601	1.00	139.58	C
ATOM	7728	O	GLU	994	-3.901	91.469	50.483	1.00	139.58	O
ATOM	7729	N	ARG	995	-3.921	91.238	52.721	1.00	109.40	N
ATOM	7730	CA	ARG	995	-4.160	89.829	52.695	1.00	109.40	C
ATOM	7731	CB	ARG	995	-5.564	89.461	52.171	1.00	109.40	C
ATOM	7732	CG	ARG	995	-5.867	87.959	52.199	1.00	109.40	C
ATOM	7733	CD	ARG	995	-7.240	87.588	51.636	1.00	109.40	C
ATOM	7734	NE	ARG	995	-7.310	86.100	51.578	1.00	109.40	N
ATOM	7735	CZ	ARG	995	-8.487	85.476	51.278	1.00	109.40	C
ATOM	7736	NH1	ARG	995	-9.615	86.212	51.058	1.00	109.40	N
ATOM	7737	NH2	ARG	995	-8.534	84.114	51.196	1.00	109.40	N
ATOM	7738	C	ARG	995	-3.129	89.199	51.815	1.00	109.40	C
ATOM	7739	O	ARG	995	-3.452	88.355	50.980	1.00	109.40	O
ATOM	7740	N	PHE	996	-1.862	89.657	51.917	1.00	101.79	N
ATOM	7741	CA	PHE	996	-0.828	89.003	51.175	1.00	101.79	C
ATOM	7742	CB	PHE	996	0.507	89.765	51.115	1.00	101.79	C
ATOM	7743	CG	PHE	996	0.294	90.995	50.299	1.00	101.79	C
ATOM	7744	CD1	PHE	996	-0.254	90.905	49.040	1.00	101.79	C
ATOM	7745	CD2	PHE	996	0.689	92.228	50.768	1.00	101.79	C
ATOM	7746	CE1	PHE	996	-0.443	92.030	48.273	1.00	101.79	C
ATOM	7747	CE2	PHE	996	0.505	93.357	50.004	1.00	101.79	C
ATOM	7748	CZ	PHE	996	-0.065	93.260	48.757	1.00	101.79	C
ATOM	7749	C	PHE	996	-0.576	87.678	51.812	1.00	101.79	C
ATOM	7750	O	PHE	996	-0.528	86.645	51.147	1.00	101.79	O
ATOM	7751	N	TYR	997	-0.440	87.688	53.149	1.00	98.99	N
ATOM	7752	CA	TYR	997	-0.199	86.501	53.915	1.00	98.99	C
ATOM	7753	CB	TYR	997	0.955	86.652	54.921	1.00	98.99	C
ATOM	7754	CG	TYR	997	2.160	87.193	54.233	1.00	98.99	C
ATOM	7755	CD1	TYR	997	2.184	88.518	53.864	1.00	98.99	C
ATOM	7756	CD2	TYR	997	3.263	86.410	53.981	1.00	98.99	C
ATOM	7757	CE1	TYR	997	3.282	89.060	53.241	1.00	98.99	C
ATOM	7758	CE2	TYR	997	4.366	86.949	53.357	1.00	98.99	C
ATOM	7759	CZ	TYR	997	4.377	88.273	52.986	1.00	98.99	C
ATOM	7760	OH	TYR	997	5.510	88.826	52.350	1.00	98.99	O
ATOM	7761	C	TYR	997	-1.416	86.397	54.781	1.00	98.99	C
ATOM	7762	O	TYR	997	-1.898	87.408	55.290	1.00	98.99	O
ATOM	7763	N	ASP	998	-1.971	85.184	54.964	1.00	70.11	N

ATOM	7764	CA	ASP	998	-3.152	85.076	55.780	1.00	70.11	C
ATOM	7765	CB	ASP	998	-4.128	83.974	55.334	1.00	70.11	C
ATOM	7766	CG	ASP	998	-4.824	84.461	54.076	1.00	70.11	C
ATOM	7767	OD1	ASP	998	-4.608	85.648	53.716	1.00	70.11	O
ATOM	7768	OD2	ASP	998	-5.587	83.666	53.464	1.00	70.11	O
ATOM	7769	C	ASP	998	-2.743	84.757	57.178	1.00	70.11	C
ATOM	7770	O	ASP	998	-1.919	83.878	57.425	1.00	70.11	O
ATOM	7771	N	PRO	999	-3.342	85.465	58.096	1.00	81.82	N
ATOM	7772	CA	PRO	999	-3.040	85.318	59.493	1.00	81.82	C
ATOM	7773	CD	PRO	999	-4.653	86.052	57.872	1.00	81.82	C
ATOM	7774	CB	PRO	999	-4.066	86.184	60.221	1.00	81.82	C
ATOM	7775	CG	PRO	999	-5.278	86.169	59.271	1.00	81.82	C
ATOM	7776	C	PRO	999	-3.131	83.881	59.888	1.00	81.82	C
ATOM	7777	O	PRO	999	-4.015	83.173	59.411	1.00	81.82	O
ATOM	7778	N	LEU	1000	-2.205	83.433	60.755	1.00	47.72	N
ATOM	7779	CA	LEU	1000	-2.171	82.080	61.220	1.00	47.72	C
ATOM	7780	CB	LEU	1000	-0.983	81.818	62.161	1.00	47.72	C
ATOM	7781	CG	LEU	1000	0.385	82.063	61.499	1.00	47.72	C
ATOM	7782	CD1	LEU	1000	1.538	81.775	62.476	1.00	47.72	C
ATOM	7783	CD2	LEU	1000	0.511	81.302	60.170	1.00	47.72	C
ATOM	7784	C	LEU	1000	-3.424	81.832	62.000	1.00	47.72	C
ATOM	7785	O	LEU	1000	-3.998	80.751	61.920	1.00	47.72	O
ATOM	7786	N	ALA	1001	-3.875	82.821	62.799	1.00	37.41	N
ATOM	7787	CA	ALA	1001	-5.071	82.623	63.574	1.00	37.41	C
ATOM	7788	CB	ALA	1001	-4.797	82.052	64.976	1.00	37.41	C
ATOM	7789	C	ALA	1001	-5.738	83.955	63.764	1.00	37.41	C
ATOM	7790	O	ALA	1001	-5.076	84.991	63.801	1.00	37.41	O
ATOM	7791	N	GLY	1002	-7.082	83.955	63.916	1.00	31.99	N
ATOM	7792	CA	GLY	1002	-7.810	85.183	64.108	1.00	31.99	C
ATOM	7793	C	GLY	1002	-8.312	85.639	62.768	1.00	31.99	C
ATOM	7794	O	GLY	1002	-8.167	84.918	61.784	1.00	31.99	O
ATOM	7795	N	LYS	1003	-8.944	86.838	62.694	1.00	143.57	N
ATOM	7796	CA	LYS	1003	-9.463	87.288	61.428	1.00	143.57	C
ATOM	7797	CB	LYS	1003	-10.858	86.731	61.087	1.00	143.57	C
ATOM	7798	CG	LYS	1003	-11.913	86.977	62.166	1.00	143.57	C
ATOM	7799	CD	LYS	1003	-11.619	86.241	63.474	1.00	143.57	C
ATOM	7800	CE	LYS	1003	-12.712	86.402	64.531	1.00	143.57	C
ATOM	7801	NZ	LYS	1003	-12.399	85.565	65.710	1.00	143.57	N
ATOM	7802	C	LYS	1003	-9.544	88.792	61.367	1.00	143.57	C
ATOM	7803	O	LYS	1003	-9.174	89.499	62.302	1.00	143.57	O
ATOM	7804	N	VAL	1004	-10.010	89.330	60.218	1.00	155.87	N
ATOM	7805	CA	VAL	1004	-10.119	90.759	60.067	1.00	155.87	C
ATOM	7806	CB	VAL	1004	-8.874	91.355	59.419	1.00	155.87	C
ATOM	7807	CG1	VAL	1004	-8.398	90.404	58.330	1.00	155.87	C
ATOM	7808	CG2	VAL	1004	-9.103	92.776	58.873	1.00	155.87	C
ATOM	7809	C	VAL	1004	-11.401	91.086	59.352	1.00	155.87	C
ATOM	7810	O	VAL	1004	-12.092	90.187	58.891	1.00	155.87	O
ATOM	7811	N	LEU	1005	-11.828	92.369	59.365	1.00	120.20	N
ATOM	7812	CA	LEU	1005	-13.002	92.812	58.653	1.00	120.20	C
ATOM	7813	CB	LEU	1005	-14.289	92.840	59.502	1.00	120.20	C
ATOM	7814	CG	LEU	1005	-14.830	91.458	59.925	1.00	120.20	C
ATOM	7815	CD1	LEU	1005	-13.887	90.730	60.896	1.00	120.20	C
ATOM	7816	CD2	LEU	1005	-16.262	91.577	60.472	1.00	120.20	C
ATOM	7817	C	LEU	1005	-12.757	94.227	58.217	1.00	120.20	C
ATOM	7818	O	LEU	1005	-12.785	95.154	59.022	1.00	120.20	O
ATOM	7819	N	LEU	1006	-12.586	94.438	56.903	1.00	145.15	N
ATOM	7820	CA	LEU	1006	-12.315	95.724	56.330	1.00	145.15	C
ATOM	7821	CB	LEU	1006	-12.134	95.701	54.807	1.00	145.15	C
ATOM	7822	CG	LEU	1006	-13.459	95.551	54.045	1.00	145.15	C
ATOM	7823	CD1	LEU	1006	-13.205	95.530	52.534	1.00	145.15	C
ATOM	7824	CD2	LEU	1006	-14.280	94.354	54.550	1.00	145.15	C
ATOM	7825	C	LEU	1006	-13.498	96.570	56.615	1.00	145.15	C
ATOM	7826	O	LEU	1006	-13.462	97.793	56.489	1.00	145.15	O
ATOM	7827	N	ASP	1007	-14.630	95.912	56.888	1.00	152.57	N
ATOM	7828	CA	ASP	1007	-15.808	96.639	57.210	1.00	152.57	C
ATOM	7829	CB	ASP	1007	-16.514	97.180	55.955	1.00	152.57	C
ATOM	7830	CG	ASP	1007	-17.724	98.003	56.376	1.00	152.57	C
ATOM	7831	OD1	ASP	1007	-17.651	98.678	57.438	1.00	152.57	O
ATOM	7832	OD2	ASP	1007	-18.746	97.956	55.641	1.00	152.57	O
ATOM	7833	C	ASP	1007	-16.733	95.655	57.847	1.00	152.57	C
ATOM	7834	O	ASP	1007	-16.938	95.649	59.058	1.00	152.57	O
ATOM	7835	N	GLY	1008	-17.429	94.897	56.987	1.00	118.33	N
ATOM	7836	CA	GLY	1008	-18.411	93.924	57.359	1.00	118.33	C
ATOM	7837	C	GLY	1008	-18.018	92.520	57.712	1.00	118.33	C

ATOM	7838	O	GLY	1008	-18.607	91.950	58.630	1.00118.33	O
ATOM	7839	N	LYS	1009	-17.092	91.876	56.962	1.00142.61	N
ATOM	7840	CA	LYS	1009	-16.995	90.462	57.216	1.00142.61	C
ATOM	7841	CB	LYS	1009	-18.019	89.629	56.421	1.00142.61	C
ATOM	7842	CG	LYS	1009	-19.461	90.138	56.504	1.00142.61	C
ATOM	7843	CD	LYS	1009	-19.720	91.358	55.615	1.00142.61	C
ATOM	7844	CE	LYS	1009	-21.073	92.031	55.851	1.00142.61	C
ATOM	7845	NZ	LYS	1009	-21.038	93.414	55.323	1.00142.61	N
ATOM	7846	C	LYS	1009	-15.667	89.948	56.788	1.00142.61	C
ATOM	7847	O	LYS	1009	-15.119	90.370	55.770	1.00142.61	O
ATOM	7848	N	GLU	1010	-15.224	88.908	57.523	1.00130.74	N
ATOM	7849	CA	GLU	1010	-13.946	88.267	57.495	1.00130.74	C
ATOM	7850	CB	GLU	1010	-14.003	86.731	57.606	1.00130.74	C
ATOM	7851	CG	GLU	1010	-14.487	86.192	58.953	1.00130.74	C
ATOM	7852	CD	GLU	1010	-14.464	84.671	58.862	1.00130.74	C
ATOM	7853	OE1	GLU	1010	-13.396	84.119	58.484	1.00130.74	O
ATOM	7854	OE2	GLU	1010	-15.513	84.041	59.162	1.00130.74	O
ATOM	7855	C	GLU	1010	-13.161	88.556	56.273	1.00130.74	C
ATOM	7856	O	GLU	1010	-13.440	88.070	55.181	1.00130.74	O
ATOM	7857	N	ILE	1011	-12.074	89.326	56.480	1.00233.26	N
ATOM	7858	CA	ILE	1011	-11.025	89.524	55.546	1.00233.26	C
ATOM	7859	CB	ILE	1011	-10.351	90.875	55.660	1.00233.26	C
ATOM	7860	CG1	ILE	1011	-11.276	91.935	55.042	1.00233.26	C
ATOM	7861	CG2	ILE	1011	-8.989	90.854	54.938	1.00233.26	C
ATOM	7862	CD1	ILE	1011	-12.688	91.944	55.606	1.00233.26	C
ATOM	7863	C	ILE	1011	-10.118	88.400	55.924	1.00233.26	C
ATOM	7864	O	ILE	1011	-9.015	88.571	56.426	1.00233.26	O
ATOM	7865	N	LYS	1012	-10.765	87.238	56.075	1.00225.00	N
ATOM	7866	CA	LYS	1012	-10.292	85.919	55.937	1.00225.00	C
ATOM	7867	CB	LYS	1012	-10.956	84.972	56.944	1.00225.00	C
ATOM	7868	CG	LYS	1012	-10.488	83.523	56.839	1.00225.00	C
ATOM	7869	CD	LYS	1012	-9.037	83.288	57.272	1.00225.00	C
ATOM	7870	CE	LYS	1012	-8.006	83.558	56.174	1.00225.00	C
ATOM	7871	NZ	LYS	1012	-7.563	84.968	56.221	1.00225.00	N
ATOM	7872	C	LYS	1012	-10.810	85.575	54.589	1.00225.00	C
ATOM	7873	O	LYS	1012	-10.103	85.170	53.669	1.00225.00	O
ATOM	7874	N	ARG	1013	-12.135	85.848	54.465	1.00122.46	N
ATOM	7875	CA	ARG	1013	-12.865	85.520	53.282	1.00122.46	C
ATOM	7876	CB	ARG	1013	-13.776	84.291	53.448	1.00122.46	C
ATOM	7877	CG	ARG	1013	-12.971	82.996	53.590	1.00122.46	C
ATOM	7878	CD	ARG	1013	-13.815	81.727	53.719	1.00122.46	C
ATOM	7879	NE	ARG	1013	-12.864	80.580	53.755	1.00122.46	N
ATOM	7880	CZ	ARG	1013	-12.505	79.952	52.598	1.00122.46	C
ATOM	7881	NH1	ARG	1013	-13.078	80.321	51.415	1.00122.46	N
ATOM	7882	NH2	ARG	1013	-11.570	78.958	52.621	1.00122.46	N
ATOM	7883	C	ARG	1013	-13.698	86.681	52.849	1.00122.46	C
ATOM	7884	O	ARG	1013	-14.812	86.904	53.325	1.00122.46	O
ATOM	7885	N	LEU	1014	-13.115	87.469	51.936	1.00 91.11	N
ATOM	7886	CA	LEU	1014	-13.702	88.582	51.255	1.00 91.11	C
ATOM	7887	CB	LEU	1014	-13.354	89.938	51.883	1.00 91.11	C
ATOM	7888	CG	LEU	1014	-13.982	91.138	51.154	1.00 91.11	C
ATOM	7889	CD1	LEU	1014	-15.518	91.088	51.207	1.00 91.11	C
ATOM	7890	CD2	LEU	1014	-13.410	92.462	51.683	1.00 91.11	C
ATOM	7891	C	LEU	1014	-13.026	88.494	49.924	1.00 91.11	C
ATOM	7892	O	LEU	1014	-11.877	88.055	49.874	1.00 91.11	O
ATOM	7893	N	ASN	1015	-13.689	88.879	48.812	1.00 91.82	N
ATOM	7894	CA	ASN	1015	-13.017	88.677	47.557	1.00 91.82	C
ATOM	7895	CB	ASN	1015	-13.837	89.058	46.318	1.00 91.82	C
ATOM	7896	CG	ASN	1015	-12.940	88.778	45.120	1.00 91.82	C
ATOM	7897	OD1	ASN	1015	-12.324	89.688	44.567	1.00 91.82	O
ATOM	7898	ND2	ASN	1015	-12.815	87.482	44.734	1.00 91.82	N
ATOM	7899	C	ASN	1015	-11.766	89.478	47.533	1.00 91.82	C
ATOM	7900	O	ASN	1015	-11.784	90.705	47.508	1.00 91.82	O
ATOM	7901	N	VAL	1016	-10.631	88.771	47.463	1.00161.06	N
ATOM	7902	CA	VAL	1016	-9.355	89.402	47.547	1.00161.06	C
ATOM	7903	CB	VAL	1016	-8.256	88.388	47.595	1.00161.06	C
ATOM	7904	CG1	VAL	1016	-8.770	87.108	46.916	1.00161.06	C
ATOM	7905	CG2	VAL	1016	-6.995	88.995	46.959	1.00161.06	C
ATOM	7906	C	VAL	1016	-9.160	90.418	46.464	1.00161.06	C
ATOM	7907	O	VAL	1016	-8.676	91.504	46.784	1.00161.06	O
ATOM	7908	N	PRO	1017	-9.513	90.196	45.223	1.00152.54	N
ATOM	7909	CA	PRO	1017	-9.274	91.225	44.251	1.00152.54	C
ATOM	7910	CD	PRO	1017	-9.570	88.879	44.613	1.00152.54	C
ATOM	7911	CB	PRO	1017	-9.624	90.610	42.899	1.00152.54	C

ATOM	7912	CG	PRO	1017	-9.329	89.112	43.111	1.00152.54	C
ATOM	7913	C	PRO	1017	-10.021	92.468	44.598	1.00152.54	C
ATOM	7914	O	PRO	1017	-9.513	93.560	44.348	1.00152.54	O
ATOM	7915	N	TRP	1018	-11.244	92.329	45.135	1.00112.51	N
ATOM	7916	CA	TRP	1018	-11.982	93.487	45.538	1.00112.51	C
ATOM	7917	CB	TRP	1018	-13.459	93.213	45.821	1.00112.51	C
ATOM	7918	CG	TRP	1018	-14.152	94.472	46.266	1.00112.51	C
ATOM	7919	CD2	TRP	1018	-14.378	94.817	47.639	1.00112.51	C
ATOM	7920	CD1	TRP	1018	-14.646	95.498	45.519	1.00112.51	C
ATOM	7921	NE1	TRP	1018	-15.156	96.472	46.343	1.00112.51	N
ATOM	7922	CE2	TRP	1018	-15.000	96.065	47.651	1.00112.51	C
ATOM	7923	CE3	TRP	1018	-14.083	94.152	48.792	1.00112.51	C
ATOM	7924	CZ2	TRP	1018	-15.338	96.672	48.825	1.00112.51	C
ATOM	7925	CZ3	TRP	1018	-14.435	94.762	49.972	1.00112.51	C
ATOM	7926	CH2	TRP	1018	-15.049	95.997	49.989	1.00112.51	C
ATOM	7927	C	TRP	1018	-11.393	94.064	46.786	1.00112.51	C
ATOM	7928	O	TRP	1018	-11.316	95.283	46.941	1.00112.51	O
ATOM	7929	N	LEU	1019	-10.962	93.190	47.716	1.00 74.39	N
ATOM	7930	CA	LEU	1019	-10.424	93.668	48.961	1.00 74.39	C
ATOM	7931	CB	LEU	1019	-9.874	92.534	49.846	1.00 74.39	C
ATOM	7932	CG	LEU	1019	-9.290	93.017	51.187	1.00 74.39	C
ATOM	7933	CD1	LEU	1019	-10.360	93.694	52.056	1.00 74.39	C
ATOM	7934	CD2	LEU	1019	-8.559	91.878	51.917	1.00 74.39	C
ATOM	7935	C	LEU	1019	-9.287	94.580	48.624	1.00 74.39	C
ATOM	7936	O	LEU	1019	-9.163	95.668	49.181	1.00 74.39	O
ATOM	7937	N	ARG	1020	-8.438	94.168	47.674	1.00217.49	N
ATOM	7938	CA	ARG	1020	-7.337	94.986	47.251	1.00217.49	C
ATOM	7939	CB	ARG	1020	-6.151	94.231	46.622	1.00217.49	C
ATOM	7940	CG	ARG	1020	-6.441	93.359	45.410	1.00217.49	C
ATOM	7941	CD	ARG	1020	-5.240	92.478	45.054	1.00217.49	C
ATOM	7942	NE	ARG	1020	-4.958	91.615	46.238	1.00217.49	N
ATOM	7943	CZ	ARG	1020	-4.030	90.617	46.155	1.00217.49	C
ATOM	7944	NH1	ARG	1020	-3.342	90.420	44.993	1.00217.49	N
ATOM	7945	NH2	ARG	1020	-3.788	89.816	47.234	1.00217.49	N
ATOM	7946	C	ARG	1020	-7.805	96.118	46.398	1.00217.49	C
ATOM	7947	O	ARG	1020	-7.034	97.013	46.068	1.00217.49	O
ATOM	7948	N	ALA	1021	-9.067	96.080	45.947	1.00 56.59	N
ATOM	7949	CA	ALA	1021	-9.568	97.168	45.165	1.00 56.59	C
ATOM	7950	CB	ALA	1021	-11.064	97.028	44.839	1.00 56.59	C
ATOM	7951	C	ALA	1021	-9.390	98.403	46.000	1.00 56.59	C
ATOM	7952	O	ALA	1021	-8.957	99.438	45.494	1.00 56.59	O
ATOM	7953	N	HIS	1022	-9.683	98.329	47.315	1.00 85.74	N
ATOM	7954	CA	HIS	1022	-9.479	99.503	48.119	1.00 85.74	C
ATOM	7955	ND1	HIS	1022	-12.222	101.171	47.705	1.00 85.74	N
ATOM	7956	CG	HIS	1022	-11.937	100.034	48.428	1.00 85.74	C
ATOM	7957	CB	HIS	1022	-10.624	99.777	49.111	1.00 85.74	C
ATOM	7958	NE2	HIS	1022	-14.041	99.895	47.619	1.00 85.74	N
ATOM	7959	CD2	HIS	1022	-13.060	99.265	48.365	1.00 85.74	C
ATOM	7960	CE1	HIS	1022	-13.492	101.035	47.243	1.00 85.74	C
ATOM	7961	C	HIS	1022	-8.214	99.341	48.909	1.00 85.74	C
ATOM	7962	O	HIS	1022	-8.105	98.473	49.773	1.00 85.74	O
ATOM	7963	N	LEU	1023	-7.197	100.174	48.606	1.00165.91	N
ATOM	7964	CA	LEU	1023	-5.961	100.082	49.329	1.00165.91	C
ATOM	7965	CB	LEU	1023	-5.211	98.762	49.005	1.00165.91	C
ATOM	7966	CG	LEU	1023	-4.668	98.595	47.559	1.00165.91	C
ATOM	7967	CD1	LEU	1023	-4.340	97.129	47.239	1.00165.91	C
ATOM	7968	CD2	LEU	1023	-5.556	99.270	46.501	1.00165.91	C
ATOM	7969	C	LEU	1023	-5.116	101.270	48.964	1.00165.91	C
ATOM	7970	O	LEU	1023	-4.388	101.268	47.974	1.00165.91	O
ATOM	7971	N	GLY	1024	-5.152	102.340	49.772	1.00 60.56	N
ATOM	7972	CA	GLY	1024	-4.333	103.447	49.380	1.00 60.56	C
ATOM	7973	C	GLY	1024	-2.979	103.162	49.924	1.00 60.56	C
ATOM	7974	O	GLY	1024	-2.610	103.681	50.974	1.00 60.56	O
ATOM	7975	N	ILE	1025	-2.169	102.363	49.199	1.00164.93	N
ATOM	7976	CA	ILE	1025	-0.906	102.062	49.795	1.00164.93	C
ATOM	7977	CB	ILE	1025	-0.443	100.635	49.782	1.00164.93	C
ATOM	7978	CG1	ILE	1025	-0.034	100.189	48.381	1.00164.93	C
ATOM	7979	CG2	ILE	1025	-1.533	99.758	50.415	1.00164.93	C
ATOM	7980	CD1	ILE	1025	0.883	98.975	48.457	1.00164.93	C
ATOM	7981	C	ILE	1025	0.166	102.813	49.079	1.00164.93	C
ATOM	7982	O	ILE	1025	0.091	103.061	47.877	1.00164.93	O
ATOM	7983	N	VAL	1026	1.154	103.274	49.864	1.00154.58	N
ATOM	7984	CA	VAL	1026	2.371	103.875	49.402	1.00154.58	C
ATOM	7985	CB	VAL	1026	2.367	105.378	49.308	1.00154.58	C

ATOM	7986	CG1	VAL	1026	1.583	105.812	48.067	1.00154.58	C
ATOM	7987	CG2	VAL	1026	1.769	105.937	50.607	1.00154.58	C
ATOM	7988	C	VAL	1026	3.388	103.497	50.424	1.00154.58	C
ATOM	7989	O	VAL	1026	3.108	103.542	51.621	1.00154.58	O
ATOM	7990	N	SER	1027	4.610	103.137	49.988	1.00 69.42	N
ATOM	7991	CA	SER	1027	5.576	102.660	50.936	1.00 69.42	C
ATOM	7992	CB	SER	1027	5.827	101.145	50.812	1.00 69.42	C
ATOM	7993	OG	SER	1027	6.673	100.681	51.856	1.00 69.42	O
ATOM	7994	C	SER	1027	6.876	103.382	50.739	1.00 69.42	C
ATOM	7995	O	SER	1027	6.999	104.247	49.871	1.00 69.42	O
ATOM	7996	N	GLN	1028	7.896	103.017	51.550	1.00112.49	N
ATOM	7997	CA	GLN	1028	9.132	103.738	51.565	1.00112.49	C
ATOM	7998	CB	GLN	1028	10.171	103.118	52.513	1.00112.49	C
ATOM	7999	CG	GLN	1028	9.735	103.200	53.980	1.00112.49	C
ATOM	8000	CD	GLN	1028	10.809	102.573	54.857	1.00112.49	C
ATOM	8001	OE1	GLN	1028	10.508	101.871	55.821	1.00112.49	O
ATOM	8002	NE2	GLN	1028	12.100	102.846	54.527	1.00112.49	N
ATOM	8003	C	GLN	1028	9.703	103.796	50.189	1.00112.49	C
ATOM	8004	O	GLN	1028	9.890	104.891	49.661	1.00112.49	O
ATOM	8005	N	GLU	1029	9.934	102.645	49.532	1.00122.53	N
ATOM	8006	CA	GLU	1029	10.432	102.752	48.192	1.00122.53	C
ATOM	8007	CB	GLU	1029	11.432	101.686	47.749	1.00122.53	C
ATOM	8008	CG	GLU	1029	12.865	101.999	48.137	1.00122.53	C
ATOM	8009	CD	GLU	1029	13.692	101.247	47.118	1.00122.53	C
ATOM	8010	OE1	GLU	1029	13.898	100.021	47.315	1.00122.53	O
ATOM	8011	OE2	GLU	1029	14.104	101.887	46.114	1.00122.53	O
ATOM	8012	C	GLU	1029	9.283	102.621	47.263	1.00122.53	C
ATOM	8013	O	GLU	1029	8.626	101.587	47.171	1.00122.53	O
ATOM	8014	N	PRO	1030	9.062	103.681	46.554	1.00123.61	N
ATOM	8015	CA	PRO	1030	8.018	103.764	45.581	1.00123.61	C
ATOM	8016	CD	PRO	1030	9.647	104.975	46.855	1.00123.61	C
ATOM	8017	CB	PRO	1030	7.805	105.256	45.325	1.00123.61	C
ATOM	8018	CG	PRO	1030	9.139	105.898	45.737	1.00123.61	C
ATOM	8019	C	PRO	1030	8.548	103.056	44.383	1.00123.61	C
ATOM	8020	O	PRO	1030	9.546	102.344	44.504	1.00123.61	O
ATOM	8021	N	ILE	1031	7.824	103.127	43.255	1.00133.61	N
ATOM	8022	CA	ILE	1031	8.348	102.565	42.045	1.00133.61	C
ATOM	8023	CB	ILE	1031	8.644	101.100	42.163	1.00133.61	C
ATOM	8024	CG1	ILE	1031	9.244	100.559	40.855	1.00133.61	C
ATOM	8025	CG2	ILE	1031	7.347	100.397	42.595	1.00133.61	C
ATOM	8026	CD1	ILE	1031	10.585	101.188	40.482	1.00133.61	C
ATOM	8027	C	ILE	1031	7.342	102.749	40.958	1.00133.61	C
ATOM	8028	O	ILE	1031	6.162	102.974	41.222	1.00133.61	O
ATOM	8029	N	LEU	1032	7.791	102.678	39.688	1.00143.78	N
ATOM	8030	CA	LEU	1032	6.857	102.774	38.603	1.00143.78	C
ATOM	8031	CB	LEU	1032	6.648	104.205	38.075	1.00143.78	C
ATOM	8032	CG	LEU	1032	6.253	105.257	39.121	1.00143.78	C
ATOM	8033	CD1	LEU	1032	7.419	105.559	40.075	1.00143.78	C
ATOM	8034	CD2	LEU	1032	5.722	106.526	38.441	1.00143.78	C
ATOM	8035	C	LEU	1032	7.448	102.062	37.424	1.00143.78	C
ATOM	8036	O	LEU	1032	8.639	102.190	37.144	1.00143.78	O
ATOM	8037	N	PHE	1033	6.611	101.308	36.686	1.00122.16	N
ATOM	8038	CA	PHE	1033	7.032	100.673	35.468	1.00122.16	C
ATOM	8039	CB	PHE	1033	6.054	99.580	35.001	1.00122.16	C
ATOM	8040	CG	PHE	1033	6.618	98.930	33.789	1.00122.16	C
ATOM	8041	CD1	PHE	1033	7.825	98.276	33.858	1.00122.16	C
ATOM	8042	CD2	PHE	1033	5.928	98.934	32.598	1.00122.16	C
ATOM	8043	CE1	PHE	1033	8.351	97.664	32.746	1.00122.16	C
ATOM	8044	CE2	PHE	1033	6.451	98.321	31.484	1.00122.16	C
ATOM	8045	CZ	PHE	1033	7.667	97.686	31.555	1.00122.16	C
ATOM	8046	C	PHE	1033	7.089	101.798	34.466	1.00122.16	C
ATOM	8047	O	PHE	1033	6.423	102.815	34.642	1.00122.16	O
ATOM	8048	N	ASP	1034	7.847	101.604	33.370	1.00182.54	N
ATOM	8049	CA	ASP	1034	8.259	102.544	32.359	1.00182.54	C
ATOM	8050	CB	ASP	1034	9.444	102.072	31.500	1.00182.54	C
ATOM	8051	CG	ASP	1034	9.118	100.728	30.891	1.00182.54	C
ATOM	8052	OD1	ASP	1034	8.150	100.637	30.091	1.00182.54	O
ATOM	8053	OD2	ASP	1034	9.840	99.759	31.244	1.00182.54	O
ATOM	8054	C	ASP	1034	7.200	103.167	31.497	1.00182.54	C
ATOM	8055	O	ASP	1034	7.515	103.609	30.393	1.00182.54	O
ATOM	8056	N	CYS	1035	5.911	103.092	31.864	1.00 67.56	N
ATOM	8057	CA	CYS	1035	4.955	103.832	31.081	1.00 67.56	C
ATOM	8058	CB	CYS	1035	3.492	103.516	31.435	1.00 67.56	C
ATOM	8059	SG	CYS	1035	3.068	101.772	31.148	1.00 67.56	S

ATOM	8060	C	CYS	1035	5.179	105.290	31.377	1.00	67.56	C
ATOM	8061	O	CYS	1035	5.948	105.645	32.269	1.00	67.56	O
ATOM	8062	N	SER	1036	4.540	106.191	30.599	1.00	44.95	N
ATOM	8063	CA	SER	1036	4.685	107.592	30.875	1.00	44.95	C
ATOM	8064	CB	SER	1036	3.976	108.498	29.853	1.00	44.95	C
ATOM	8065	OG	SER	1036	2.576	108.261	29.876	1.00	44.95	O
ATOM	8066	C	SER	1036	4.037	107.785	32.208	1.00	44.95	C
ATOM	8067	O	SER	1036	3.246	106.945	32.632	1.00	44.95	O
ATOM	8068	N	ILE	1037	4.348	108.888	32.920	1.00	134.82	N
ATOM	8069	CA	ILE	1037	3.778	109.008	34.229	1.00	134.82	C
ATOM	8070	CB	ILE	1037	4.227	110.163	35.093	1.00	134.82	C
ATOM	8071	CG1	ILE	1037	3.769	111.532	34.575	1.00	134.82	C
ATOM	8072	CG2	ILE	1037	5.752	110.040	35.252	1.00	134.82	C
ATOM	8073	CD1	ILE	1037	4.489	112.003	33.324	1.00	134.82	C
ATOM	8074	C	ILE	1037	2.295	109.069	34.088	1.00	134.82	C
ATOM	8075	O	ILE	1037	1.577	108.635	34.981	1.00	134.82	O
ATOM	8076	N	ALA	1038	1.778	109.622	32.976	1.00	52.16	N
ATOM	8077	CA	ALA	1038	0.353	109.717	32.832	1.00	52.16	C
ATOM	8078	CB	ALA	1038	-0.076	110.290	31.471	1.00	52.16	C
ATOM	8079	C	ALA	1038	-0.245	108.341	32.949	1.00	52.16	C
ATOM	8080	O	ALA	1038	-1.293	108.171	33.572	1.00	52.16	O
ATOM	8081	N	GLU	1039	0.382	107.326	32.322	1.00	93.47	N
ATOM	8082	CA	GLU	1039	-0.092	105.967	32.386	1.00	93.47	C
ATOM	8083	CB	GLU	1039	0.682	105.042	31.432	1.00	93.47	C
ATOM	8084	CG	GLU	1039	0.570	105.450	29.961	1.00	93.47	C
ATOM	8085	CD	GLU	1039	-0.883	105.310	29.530	1.00	93.47	C
ATOM	8086	OE1	GLU	1039	-1.750	105.986	30.144	1.00	93.47	O
ATOM	8087	OE2	GLU	1039	-1.145	104.526	28.580	1.00	93.47	O
ATOM	8088	C	GLU	1039	0.116	105.432	33.770	1.00	93.47	C
ATOM	8089	O	GLU	1039	-0.773	104.814	34.357	1.00	93.47	O
ATOM	8090	N	ASN	1040	1.309	105.665	34.349	1.00	175.25	N
ATOM	8091	CA	ASN	1040	1.519	105.112	35.648	1.00	175.25	C
ATOM	8092	CB	ASN	1040	2.981	105.057	36.155	1.00	175.25	C
ATOM	8093	CG	ASN	1040	3.765	106.335	35.936	1.00	175.25	C
ATOM	8094	OD1	ASN	1040	3.708	107.280	36.718	1.00	175.25	O
ATOM	8095	ND2	ASN	1040	4.580	106.325	34.849	1.00	175.25	N
ATOM	8096	C	ASN	1040	0.550	105.709	36.603	1.00	175.25	C
ATOM	8097	O	ASN	1040	-0.033	104.957	37.364	1.00	175.25	O
ATOM	8098	N	ILE	1041	0.254	107.021	36.530	1.00	168.48	N
ATOM	8099	CA	ILE	1041	-0.714	107.643	37.399	1.00	168.48	C
ATOM	8100	CB	ILE	1041	-1.160	108.997	36.915	1.00	168.48	C
ATOM	8101	CG1	ILE	1041	-0.015	110.007	36.725	1.00	168.48	C
ATOM	8102	CG2	ILE	1041	-2.243	109.481	37.891	1.00	168.48	C
ATOM	8103	CD1	ILE	1041	0.682	110.450	38.002	1.00	168.48	C
ATOM	8104	C	ILE	1041	-1.950	106.813	37.219	1.00	168.48	C
ATOM	8105	O	ILE	1041	-2.573	106.350	38.169	1.00	168.48	O
ATOM	8106	N	ALA	1042	-2.192	106.474	35.947	1.00	116.45	N
ATOM	8107	CA	ALA	1042	-3.287	105.734	35.404	1.00	116.45	C
ATOM	8108	CB	ALA	1042	-3.311	105.700	33.866	1.00	116.45	C
ATOM	8109	C	ALA	1042	-3.320	104.332	35.916	1.00	116.45	C
ATOM	8110	O	ALA	1042	-4.220	103.610	35.494	1.00	116.45	O
ATOM	8111	N	TYR	1043	-2.284	103.892	36.685	1.00	220.67	N
ATOM	8112	CA	TYR	1043	-2.064	102.530	37.127	1.00	220.67	C
ATOM	8113	CB	TYR	1043	-1.448	102.282	38.522	1.00	220.67	C
ATOM	8114	CG	TYR	1043	0.018	102.446	38.418	1.00	220.67	C
ATOM	8115	CD1	TYR	1043	0.711	101.751	37.456	1.00	220.67	C
ATOM	8116	CD2	TYR	1043	0.701	103.238	39.309	1.00	220.67	C
ATOM	8117	CE1	TYR	1043	2.071	101.890	37.340	1.00	220.67	C
ATOM	8118	CE2	TYR	1043	2.059	103.382	39.192	1.00	220.67	C
ATOM	8119	CZ	TYR	1043	2.738	102.716	38.207	1.00	220.67	C
ATOM	8120	OH	TYR	1043	4.130	102.873	38.098	1.00	220.67	O
ATOM	8121	C	TYR	1043	-3.295	101.731	37.147	1.00	220.67	C
ATOM	8122	O	TYR	1043	-4.131	101.897	38.028	1.00	220.67	O
ATOM	8123	N	GLY	1044	-3.447	101.003	36.023	1.00	178.52	N
ATOM	8124	CA	GLY	1044	-4.328	99.938	35.636	1.00	178.52	C
ATOM	8125	C	GLY	1044	-4.838	99.143	36.791	1.00	178.52	C
ATOM	8126	O	GLY	1044	-4.674	97.927	36.786	1.00	178.52	O
ATOM	8127	N	ASP	1045	-5.512	99.765	37.762	1.00	187.13	N
ATOM	8128	CA	ASP	1045	-5.923	99.117	38.965	1.00	187.13	C
ATOM	8129	CB	ASP	1045	-6.846	100.028	39.777	1.00	187.13	C
ATOM	8130	CG	ASP	1045	-6.217	101.410	39.755	1.00	187.13	C
ATOM	8131	OD1	ASP	1045	-5.120	101.598	40.345	1.00	187.13	O
ATOM	8132	OD2	ASP	1045	-6.840	102.305	39.123	1.00	187.13	O
ATOM	8133	C	ASP	1045	-6.786	98.004	38.506	1.00	187.13	C

ATOM	8134	O	ASP	1045	-6.779	96.903	39.053	1.00187.13	O
ATOM	8135	N	ASN	1046	-7.559	98.299	37.453	1.00100.67	N
ATOM	8136	CA	ASN	1046	-8.459	97.338	36.905	1.00100.67	C
ATOM	8137	CB	ASN	1046	-9.609	96.997	37.870	1.00100.67	C
ATOM	8138	CG	ASN	1046	-10.250	98.295	38.345	1.00100.67	C
ATOM	8139	OD1	ASN	1046	-10.907	99.006	37.588	1.00100.67	O
ATOM	8140	ND2	ASN	1046	-10.051	98.613	39.652	1.00100.67	N
ATOM	8141	C	ASN	1046	-9.007	97.917	35.647	1.00100.67	C
ATOM	8142	O	ASN	1046	-8.311	98.607	34.903	1.00100.67	O
ATOM	8143	N	SER	1047	-10.311	97.681	35.409	1.00 51.87	N
ATOM	8144	CA	SER	1047	-11.011	98.126	34.236	1.00 51.87	C
ATOM	8145	CB	SER	1047	-12.503	97.754	34.263	1.00 51.87	C
ATOM	8146	OG	SER	1047	-13.139	98.401	35.355	1.00 51.87	O
ATOM	8147	C	SER	1047	-10.933	99.617	34.168	1.00 51.87	C
ATOM	8148	O	SER	1047	-11.266	100.209	33.140	1.00 51.87	O
ATOM	8149	N	ARG	1048	-10.489	100.258	35.268	1.00137.26	N
ATOM	8150	CA	ARG	1048	-10.369	101.680	35.335	1.00137.26	C
ATOM	8151	CB	ARG	1048	-9.559	102.146	36.556	1.00137.26	C
ATOM	8152	CG	ARG	1048	-10.238	101.861	37.895	1.00137.26	C
ATOM	8153	CD	ARG	1048	-10.909	103.099	38.489	1.00137.26	C
ATOM	8154	NE	ARG	1048	-12.042	103.466	37.594	1.00137.26	N
ATOM	8155	CZ	ARG	1048	-12.336	104.780	37.369	1.00137.26	C
ATOM	8156	NH1	ARG	1048	-11.556	105.757	37.915	1.00137.26	N
ATOM	8157	NH2	ARG	1048	-13.401	105.119	36.586	1.00137.26	N
ATOM	8158	C	ARG	1048	-9.619	102.142	34.127	1.00137.26	C
ATOM	8159	O	ARG	1048	-8.449	101.819	33.930	1.00137.26	O
ATOM	8160	N	VAL	1049	-10.314	102.930	33.287	1.00103.84	N
ATOM	8161	CA	VAL	1049	-9.772	103.460	32.073	1.00103.84	C
ATOM	8162	CB	VAL	1049	-10.821	103.944	31.114	1.00103.84	C
ATOM	8163	CG1	VAL	1049	-11.641	105.051	31.798	1.00103.84	C
ATOM	8164	CG2	VAL	1049	-10.124	104.404	29.821	1.00103.84	C
ATOM	8165	C	VAL	1049	-8.919	104.619	32.448	1.00103.84	C
ATOM	8166	O	VAL	1049	-9.095	105.189	33.523	1.00103.84	O
ATOM	8167	N	VAL	1050	-7.953	104.974	31.576	1.00 80.52	N
ATOM	8168	CA	VAL	1050	-7.067	106.059	31.875	1.00 80.52	C
ATOM	8169	CB	VAL	1050	-5.905	106.131	30.921	1.00 80.52	C
ATOM	8170	CG1	VAL	1050	-5.009	107.323	31.301	1.00 80.52	C
ATOM	8171	CG2	VAL	1050	-5.175	104.775	30.934	1.00 80.52	C
ATOM	8172	C	VAL	1050	-7.846	107.335	31.759	1.00 80.52	C
ATOM	8173	O	VAL	1050	-7.721	108.075	30.785	1.00 80.52	O
ATOM	8174	N	SER	1051	-8.648	107.645	32.796	1.00 70.52	N
ATOM	8175	CA	SER	1051	-9.441	108.838	32.779	1.00 70.52	C
ATOM	8176	CB	SER	1051	-10.390	108.922	33.986	1.00 70.52	C
ATOM	8177	OG	SER	1051	-11.156	110.116	33.937	1.00 70.52	O
ATOM	8178	C	SER	1051	-8.477	109.976	32.857	1.00 70.52	C
ATOM	8179	O	SER	1051	-7.839	110.190	33.886	1.00 70.52	O
ATOM	8180	N	GLN	1052	-8.376	110.778	31.780	1.00118.76	N
ATOM	8181	CA	GLN	1052	-7.348	111.775	31.798	1.00118.76	C
ATOM	8182	CB	GLN	1052	-7.179	112.555	30.477	1.00118.76	C
ATOM	8183	CG	GLN	1052	-8.347	113.460	30.089	1.00118.76	C
ATOM	8184	CD	GLN	1052	-7.920	114.265	28.876	1.00118.76	C
ATOM	8185	OE1	GLN	1052	-6.771	114.181	28.446	1.00118.76	O
ATOM	8186	NE2	GLN	1052	-8.859	115.071	28.310	1.00118.76	N
ATOM	8187	C	GLN	1052	-7.586	112.754	32.897	1.00118.76	C
ATOM	8188	O	GLN	1052	-6.692	113.000	33.706	1.00118.76	O
ATOM	8189	N	GLU	1053	-8.825	113.265	33.009	1.00129.88	N
ATOM	8190	CA	GLU	1053	-9.128	114.282	33.972	1.00129.88	C
ATOM	8191	CB	GLU	1053	-10.627	114.607	34.027	1.00129.88	C
ATOM	8192	CG	GLU	1053	-11.231	114.852	32.649	1.00129.88	C
ATOM	8193	CD	GLU	1053	-11.557	113.476	32.078	1.00129.88	C
ATOM	8194	OE1	GLU	1053	-12.595	112.896	32.490	1.00129.88	O
ATOM	8195	OE2	GLU	1053	-10.775	112.976	31.230	1.00129.88	O
ATOM	8196	C	GLU	1053	-8.814	113.681	35.290	1.00129.88	C
ATOM	8197	O	GLU	1053	-8.308	114.350	36.190	1.00129.88	O
ATOM	8198	N	GLU	1054	-9.116	112.379	35.424	1.00 84.22	N
ATOM	8199	CA	GLU	1054	-8.881	111.744	36.680	1.00 84.22	C
ATOM	8200	CB	GLU	1054	-9.354	110.290	36.762	1.00 84.22	C
ATOM	8201	CG	GLU	1054	-9.377	109.813	38.215	1.00 84.22	C
ATOM	8202	CD	GLU	1054	-9.523	108.308	38.224	1.00 84.22	C
ATOM	8203	OE1	GLU	1054	-8.862	107.660	37.372	1.00 84.22	O
ATOM	8204	OE2	GLU	1054	-10.285	107.786	39.080	1.00 84.22	O
ATOM	8205	C	GLU	1054	-7.410	111.746	36.963	1.00 84.22	C
ATOM	8206	O	GLU	1054	-6.998	112.114	38.061	1.00 84.22	O
ATOM	8207	N	ILE	1055	-6.578	111.410	35.954	1.00179.31	N

ATOM	8208	CA	ILE	1055	-5.150	111.341	36.124	1.00179.31	C
ATOM	8209	CB	ILE	1055	-4.384	111.298	34.841	1.00179.31	C
ATOM	8210	CG1	ILE	1055	-4.810	110.164	33.921	1.00179.31	C
ATOM	8211	CG2	ILE	1055	-2.894	111.264	35.204	1.00179.31	C
ATOM	8212	CD1	ILE	1055	-4.243	110.346	32.514	1.00179.31	C
ATOM	8213	C	ILE	1055	-4.743	112.685	36.615	1.00179.31	C
ATOM	8214	O	ILE	1055	-3.782	112.830	37.370	1.00179.31	O
ATOM	8215	N	VAL	1056	-5.424	113.709	36.078	1.00 53.82	N
ATOM	8216	CA	VAL	1056	-5.193	115.080	36.417	1.00 53.82	C
ATOM	8217	CB	VAL	1056	-5.983	116.024	35.561	1.00 53.82	C
ATOM	8218	CG1	VAL	1056	-5.697	117.462	36.028	1.00 53.82	C
ATOM	8219	CG2	VAL	1056	-5.622	115.762	34.089	1.00 53.82	C
ATOM	8220	C	VAL	1056	-5.584	115.310	37.841	1.00 53.82	C
ATOM	8221	O	VAL	1056	-4.894	116.018	38.574	1.00 53.82	O
ATOM	8222	N	ARG	1057	-6.707	114.710	38.278	1.00164.40	N
ATOM	8223	CA	ARG	1057	-7.145	114.911	39.628	1.00164.40	C
ATOM	8224	CB	ARG	1057	-8.375	114.066	39.992	1.00164.40	C
ATOM	8225	CG	ARG	1057	-9.638	114.521	39.276	1.00164.40	C
ATOM	8226	CD	ARG	1057	-9.823	116.034	39.368	1.00164.40	C
ATOM	8227	NE	ARG	1057	-11.098	116.373	38.687	1.00164.40	N
ATOM	8228	CZ	ARG	1057	-12.258	116.352	39.405	1.00164.40	C
ATOM	8229	NH1	ARG	1057	-12.231	116.011	40.727	1.00164.40	N
ATOM	8230	NH2	ARG	1057	-13.440	116.677	38.806	1.00164.40	N
ATOM	8231	C	ARG	1057	-6.046	114.431	40.504	1.00164.40	C
ATOM	8232	O	ARG	1057	-5.679	115.083	41.481	1.00164.40	O
ATOM	8233	N	ALA	1058	-5.482	113.264	40.153	1.00 66.88	N
ATOM	8234	CA	ALA	1058	-4.442	112.701	40.952	1.00 66.88	C
ATOM	8235	CB	ALA	1058	-3.925	111.373	40.383	1.00 66.88	C
ATOM	8236	C	ALA	1058	-3.287	113.633	40.972	1.00 66.88	C
ATOM	8237	O	ALA	1058	-2.887	114.067	42.040	1.00 66.88	O
ATOM	8238	N	ALA	1059	-2.804	114.078	39.802	1.00 56.60	N
ATOM	8239	CA	ALA	1059	-1.633	114.907	39.743	1.00 56.60	C
ATOM	8240	CB	ALA	1059	-1.296	115.372	38.317	1.00 56.60	C
ATOM	8241	C	ALA	1059	-1.894	116.122	40.570	1.00 56.60	C
ATOM	8242	O	ALA	1059	-0.978	116.675	41.178	1.00 56.60	O
ATOM	8243	N	LYS	1060	-3.155	116.588	40.594	1.00110.10	N
ATOM	8244	CA	LYS	1060	-3.418	117.757	41.377	1.00110.10	C
ATOM	8245	CB	LYS	1060	-4.844	118.283	41.169	1.00110.10	C
ATOM	8246	CG	LYS	1060	-4.995	118.908	39.782	1.00110.10	C
ATOM	8247	CD	LYS	1060	-6.435	119.168	39.354	1.00110.10	C
ATOM	8248	CE	LYS	1060	-6.545	119.849	37.987	1.00110.10	C
ATOM	8249	NZ	LYS	1060	-6.108	121.260	38.085	1.00110.10	N
ATOM	8250	C	LYS	1060	-3.181	117.527	42.847	1.00110.10	C
ATOM	8251	O	LYS	1060	-2.248	118.089	43.415	1.00110.10	O
ATOM	8252	N	GLU	1061	-3.946	116.617	43.486	1.00125.69	N
ATOM	8253	CA	GLU	1061	-3.869	116.404	44.912	1.00125.69	C
ATOM	8254	CB	GLU	1061	-4.925	115.400	45.412	1.00125.69	C
ATOM	8255	CG	GLU	1061	-5.544	115.724	46.780	1.00125.69	C
ATOM	8256	CD	GLU	1061	-4.484	116.144	47.790	1.00125.69	C
ATOM	8257	OE1	GLU	1061	-3.807	117.178	47.546	1.00125.69	O
ATOM	8258	OE2	GLU	1061	-4.358	115.451	48.835	1.00125.69	O
ATOM	8259	C	GLU	1061	-2.520	115.824	45.200	1.00125.69	C
ATOM	8260	O	GLU	1061	-1.970	115.955	46.292	1.00125.69	O
ATOM	8261	N	ALA	1062	-1.978	115.110	44.205	1.00 48.39	N
ATOM	8262	CA	ALA	1062	-0.709	114.453	44.274	1.00 48.39	C
ATOM	8263	CB	ALA	1062	-0.343	113.693	42.989	1.00 48.39	C
ATOM	8264	C	ALA	1062	0.327	115.506	44.477	1.00 48.39	C
ATOM	8265	O	ALA	1062	1.253	115.327	45.265	1.00 48.39	O
ATOM	8266	N	ASN	1063	0.156	116.658	43.801	1.00 81.22	N
ATOM	8267	CA	ASN	1063	1.094	117.742	43.873	1.00 81.22	C
ATOM	8268	CB	ASN	1063	1.531	118.056	45.314	1.00 81.22	C
ATOM	8269	CG	ASN	1063	0.311	118.548	46.079	1.00 81.22	C
ATOM	8270	OD1	ASN	1063	-0.246	119.601	45.776	1.00 81.22	O
ATOM	8271	ND2	ASN	1063	-0.124	117.761	47.099	1.00 81.22	N
ATOM	8272	C	ASN	1063	2.317	117.395	43.080	1.00 81.22	C
ATOM	8273	O	ASN	1063	3.385	117.976	43.267	1.00 81.22	O
ATOM	8274	N	ILE	1064	2.188	116.381	42.210	1.00132.53	N
ATOM	8275	CA	ILE	1064	3.139	115.981	41.211	1.00132.53	C
ATOM	8276	CB	ILE	1064	2.887	114.608	40.662	1.00132.53	C
ATOM	8277	CG1	ILE	1064	4.026	114.207	39.709	1.00132.53	C
ATOM	8278	CG2	ILE	1064	1.493	114.598	40.016	1.00132.53	C
ATOM	8279	CD1	ILE	1064	5.390	114.120	40.393	1.00132.53	C
ATOM	8280	C	ILE	1064	3.026	116.965	40.095	1.00132.53	C
ATOM	8281	O	ILE	1064	3.917	117.121	39.260	1.00132.53	O



ATOM	8282	N	HIS	1065	1.857	117.620	40.049	1.00	86.94	N
ATOM	8283	CA	HIS	1065	1.434	118.499	39.004	1.00	86.94	C
ATOM	8284	ND1	HIS	1065	-0.252	120.678	37.306	1.00	86.94	N
ATOM	8285	CG	HIS	1065	-0.657	119.669	38.149	1.00	86.94	C
ATOM	8286	CB	HIS	1065	0.105	119.194	39.350	1.00	86.94	C
ATOM	8287	NE2	HIS	1065	-2.197	119.935	36.522	1.00	86.94	N
ATOM	8288	CD2	HIS	1065	-1.847	119.227	37.656	1.00	86.94	C
ATOM	8289	CE1	HIS	1065	-1.209	120.795	36.351	1.00	86.94	C
ATOM	8290	C	HIS	1065	2.480	119.555	38.810	1.00	86.94	C
ATOM	8291	O	HIS	1065	2.607	120.094	37.714	1.00	86.94	O
ATOM	8292	N	ALA	1066	3.263	119.884	39.857	1.00	42.57	N
ATOM	8293	CA	ALA	1066	4.262	120.910	39.723	1.00	42.57	C
ATOM	8294	CB	ALA	1066	5.140	121.056	40.978	1.00	42.57	C
ATOM	8295	C	ALA	1066	5.164	120.529	38.587	1.00	42.57	C
ATOM	8296	O	ALA	1066	5.597	121.388	37.821	1.00	42.57	O
ATOM	8297	N	PHE	1067	5.505	119.231	38.484	1.00	76.72	N
ATOM	8298	CA	PHE	1067	6.274	118.691	37.396	1.00	76.72	C
ATOM	8299	CB	PHE	1067	6.829	117.292	37.703	1.00	76.72	C
ATOM	8300	CG	PHE	1067	7.938	117.511	38.671	1.00	76.72	C
ATOM	8301	CD1	PHE	1067	7.669	117.821	39.983	1.00	76.72	C
ATOM	8302	CD2	PHE	1067	9.248	117.407	38.262	1.00	76.72	C
ATOM	8303	CE1	PHE	1067	8.695	118.028	40.873	1.00	76.72	C
ATOM	8304	CE2	PHE	1067	10.278	117.611	39.148	1.00	76.72	C
ATOM	8305	CZ	PHE	1067	10.001	117.924	40.456	1.00	76.72	C
ATOM	8306	C	PHE	1067	5.424	118.615	36.165	1.00	76.72	C
ATOM	8307	O	PHE	1067	5.906	118.786	35.047	1.00	76.72	O
ATOM	8308	N	ILE	1068	4.126	118.320	36.351	1.00	119.40	N
ATOM	8309	CA	ILE	1068	3.195	118.120	35.280	1.00	119.40	C
ATOM	8310	CB	ILE	1068	1.846	117.699	35.784	1.00	119.40	C
ATOM	8311	CG1	ILE	1068	1.979	116.405	36.605	1.00	119.40	C
ATOM	8312	CG2	ILE	1068	0.889	117.592	34.588	1.00	119.40	C
ATOM	8313	CD1	ILE	1068	2.721	115.287	35.878	1.00	119.40	C
ATOM	8314	C	ILE	1068	3.006	119.375	34.488	1.00	119.40	C
ATOM	8315	O	ILE	1068	2.915	119.332	33.263	1.00	119.40	O
ATOM	8316	N	GLU	1069	2.917	120.535	35.159	1.00	71.72	N
ATOM	8317	CA	GLU	1069	2.609	121.732	34.437	1.00	71.72	C
ATOM	8318	CB	GLU	1069	2.598	122.971	35.349	1.00	71.72	C
ATOM	8319	CG	GLU	1069	1.532	122.947	36.446	1.00	71.72	C
ATOM	8320	CD	GLU	1069	1.743	124.189	37.301	1.00	71.72	C
ATOM	8321	OE1	GLU	1069	1.220	125.270	36.919	1.00	71.72	O
ATOM	8322	OE2	GLU	1069	2.441	124.074	38.344	1.00	71.72	O
ATOM	8323	C	GLU	1069	3.654	122.012	33.397	1.00	71.72	C
ATOM	8324	O	GLU	1069	3.340	122.113	32.212	1.00	71.72	O
ATOM	8325	N	SER	1070	4.917	122.194	33.832	1.00	129.69	N
ATOM	8326	CA	SER	1070	5.988	122.562	32.948	1.00	129.69	C
ATOM	8327	CB	SER	1070	7.095	123.333	33.683	1.00	129.69	C
ATOM	8328	OG	SER	1070	8.129	123.678	32.775	1.00	129.69	O
ATOM	8329	C	SER	1070	6.647	121.434	32.221	1.00	129.69	C
ATOM	8330	O	SER	1070	6.365	121.195	31.047	1.00	129.69	O
ATOM	8331	N	LEU	1071	7.449	120.655	32.993	1.00	130.36	N
ATOM	8332	CA	LEU	1071	8.439	119.700	32.556	1.00	130.36	C
ATOM	8333	CB	LEU	1071	8.689	118.566	33.567	1.00	130.36	C
ATOM	8334	CG	LEU	1071	9.314	119.043	34.893	1.00	130.36	C
ATOM	8335	CD1	LEU	1071	10.718	119.626	34.668	1.00	130.36	C
ATOM	8336	CD2	LEU	1071	8.382	120.004	35.646	1.00	130.36	C
ATOM	8337	C	LEU	1071	8.057	119.094	31.253	1.00	130.36	C
ATOM	8338	O	LEU	1071	6.947	118.607	31.051	1.00	130.36	O
ATOM	8339	N	PRO	1072	9.033	119.135	30.379	1.00	89.19	N
ATOM	8340	CA	PRO	1072	8.893	118.800	28.993	1.00	89.19	C
ATOM	8341	CD	PRO	1072	10.418	119.332	30.774	1.00	89.19	C
ATOM	8342	CB	PRO	1072	10.316	118.670	28.448	1.00	89.19	C
ATOM	8343	CG	PRO	1072	11.182	119.462	29.445	1.00	89.19	C
ATOM	8344	C	PRO	1072	8.095	117.560	28.805	1.00	89.19	C
ATOM	8345	O	PRO	1072	8.227	116.631	29.596	1.00	89.19	O
ATOM	8346	N	ASN	1073	7.214	117.574	27.790	1.00	76.57	N
ATOM	8347	CA	ASN	1073	6.374	116.471	27.440	1.00	76.57	C
ATOM	8348	CB	ASN	1073	7.163	115.159	27.267	1.00	76.57	C
ATOM	8349	CG	ASN	1073	8.024	115.275	26.014	1.00	76.57	C
ATOM	8350	OD1	ASN	1073	7.516	115.494	24.915	1.00	76.57	O
ATOM	8351	ND2	ASN	1073	9.366	115.131	26.181	1.00	76.57	N
ATOM	8352	C	ASN	1073	5.340	116.255	28.506	1.00	76.57	C
ATOM	8353	O	ASN	1073	4.435	115.446	28.314	1.00	76.57	O
ATOM	8354	N	LYS	1074	5.400	117.017	29.619	1.00	101.58	N
ATOM	8355	CA	LYS	1074	4.418	116.910	30.670	1.00	101.58	C

ATOM	8356	CB	LYS	1074	3.080	117.566	30.306	1.00101.58	C
ATOM	8357	CG	LYS	1074	3.207	119.062	30.032	1.00101.58	C
ATOM	8358	CD	LYS	1074	1.972	119.650	29.355	1.00101.58	C
ATOM	8359	CE	LYS	1074	2.084	121.149	29.080	1.00101.58	C
ATOM	8360	NZ	LYS	1074	0.848	121.630	28.425	1.00101.58	N
ATOM	8361	C	LYS	1074	4.148	115.470	31.020	1.00101.58	C
ATOM	8362	O	LYS	1074	5.060	114.656	31.159	1.00101.58	O
ATOM	8363	N	TYR	1075	2.846	115.127	31.124	1.00177.13	N
ATOM	8364	CA	TYR	1075	2.399	113.811	31.501	1.00177.13	C
ATOM	8365	CB	TYR	1075	0.878	113.558	31.431	1.00177.13	C
ATOM	8366	CG	TYR	1075	0.116	114.183	32.553	1.00177.13	C
ATOM	8367	CD1	TYR	1075	0.150	113.627	33.812	1.00177.13	C
ATOM	8368	CD2	TYR	1075	-0.635	115.317	32.350	1.00177.13	C
ATOM	8369	CE1	TYR	1075	-0.558	114.186	34.850	1.00177.13	C
ATOM	8370	CE2	TYR	1075	-1.347	115.881	33.382	1.00177.13	C
ATOM	8371	CZ	TYR	1075	-1.310	115.317	34.633	1.00177.13	C
ATOM	8372	OH	TYR	1075	-2.044	115.902	35.687	1.00177.13	O
ATOM	8373	C	TYR	1075	2.966	112.796	30.556	1.00177.13	C
ATOM	8374	O	TYR	1075	3.204	111.653	30.943	1.00177.13	O
ATOM	8375	N	SER	1076	3.148	113.159	29.276	1.00 90.22	N
ATOM	8376	CA	SER	1076	3.599	112.188	28.317	1.00 90.22	C
ATOM	8377	CB	SER	1076	3.681	112.718	26.872	1.00 90.22	C
ATOM	8378	OG	SER	1076	4.853	113.498	26.691	1.00 90.22	O
ATOM	8379	C	SER	1076	4.969	111.704	28.681	1.00 90.22	C
ATOM	8380	O	SER	1076	5.382	110.633	28.240	1.00 90.22	O
ATOM	8381	N	THR	1077	5.709	112.472	29.505	1.00 54.13	N
ATOM	8382	CA	THR	1077	7.054	112.091	29.839	1.00 54.13	C
ATOM	8383	CB	THR	1077	7.661	112.955	30.899	1.00 54.13	C
ATOM	8384	OG1	THR	1077	7.613	114.312	30.502	1.00 54.13	O
ATOM	8385	CG2	THR	1077	9.120	112.521	31.123	1.00 54.13	C
ATOM	8386	C	THR	1077	7.049	110.716	30.414	1.00 54.13	C
ATOM	8387	O	THR	1077	6.414	110.445	31.431	1.00 54.13	O
ATOM	8388	N	LYS	1078	7.798	109.804	29.776	1.00134.84	N
ATOM	8389	CA	LYS	1078	7.871	108.476	30.297	1.00134.84	C
ATOM	8390	CB	LYS	1078	8.737	107.494	29.491	1.00134.84	C
ATOM	8391	CG	LYS	1078	8.159	107.002	28.171	1.00134.84	C
ATOM	8392	CD	LYS	1078	9.175	106.206	27.347	1.00134.84	C
ATOM	8393	CE	LYS	1078	9.617	104.900	28.016	1.00134.84	C
ATOM	8394	NZ	LYS	1078	10.558	104.167	27.138	1.00134.84	N
ATOM	8395	C	LYS	1078	8.604	108.599	31.577	1.00134.84	C
ATOM	8396	O	LYS	1078	9.248	109.605	31.861	1.00134.84	O
ATOM	8397	N	VAL	1079	8.552	107.532	32.379	1.00148.18	N
ATOM	8398	CA	VAL	1079	9.286	107.504	33.597	1.00148.18	C
ATOM	8399	CB	VAL	1079	9.039	106.253	34.381	1.00148.18	C
ATOM	8400	CG1	VAL	1079	9.291	105.049	33.485	1.00148.18	C
ATOM	8401	CG2	VAL	1079	9.940	106.268	35.612	1.00148.18	C
ATOM	8402	C	VAL	1079	10.724	107.657	33.197	1.00148.18	C
ATOM	8403	O	VAL	1079	11.556	108.075	33.998	1.00148.18	O
ATOM	8404	N	GLY	1080	11.054	107.294	31.938	1.00 66.90	N
ATOM	8405	CA	GLY	1080	12.356	107.566	31.406	1.00 66.90	C
ATOM	8406	C	GLY	1080	13.401	106.694	32.015	1.00 66.90	C
ATOM	8407	O	GLY	1080	13.977	107.021	33.050	1.00 66.90	O
ATOM	8408	N	ASP	1081	13.688	105.564	31.340	1.00 77.25	N
ATOM	8409	CA	ASP	1081	14.691	104.626	31.757	1.00 77.25	C
ATOM	8410	CB	ASP	1081	16.079	105.273	31.922	1.00 77.25	C
ATOM	8411	CG	ASP	1081	17.112	104.166	32.090	1.00 77.25	C
ATOM	8412	OD1	ASP	1081	16.713	102.972	32.033	1.00 77.25	O
ATOM	8413	OD2	ASP	1081	18.311	104.498	32.286	1.00 77.25	O
ATOM	8414	C	ASP	1081	14.299	103.994	33.050	1.00 77.25	C
ATOM	8415	O	ASP	1081	15.126	103.732	33.922	1.00 77.25	O
ATOM	8416	N	LYS	1082	12.997	103.707	33.180	1.00137.89	N
ATOM	8417	CA	LYS	1082	12.464	103.004	34.306	1.00137.89	C
ATOM	8418	CB	LYS	1082	13.165	101.660	34.558	1.00137.89	C
ATOM	8419	CG	LYS	1082	12.926	100.661	33.426	1.00137.89	C
ATOM	8420	CD	LYS	1082	13.502	101.141	32.095	1.00137.89	C
ATOM	8421	CE	LYS	1082	13.059	100.302	30.899	1.00137.89	C
ATOM	8422	NZ	LYS	1082	13.122	101.126	29.673	1.00137.89	N
ATOM	8423	C	LYS	1082	12.539	103.819	35.557	1.00137.89	C
ATOM	8424	O	LYS	1082	12.335	103.271	36.639	1.00137.89	O
ATOM	8425	N	GLY	1083	12.749	105.151	35.457	1.00 64.38	N
ATOM	8426	CA	GLY	1083	12.654	105.919	36.666	1.00 64.38	C
ATOM	8427	C	GLY	1083	13.723	106.950	36.869	1.00 64.38	C
ATOM	8428	O	GLY	1083	13.364	108.121	36.963	1.00 64.38	O
ATOM	8429	N	THR	1084	15.027	106.593	36.886	1.00148.61	N

ATOM	8430	CA	THR	1084	16.046	107.539	37.272	1.00148.61	C
ATOM	8431	CB	THR	1084	17.444	106.988	37.158	1.00148.61	C
ATOM	8432	OG1	THR	1084	18.388	107.957	37.586	1.00148.61	O
ATOM	8433	CG2	THR	1084	17.729	106.559	35.709	1.00148.61	C
ATOM	8434	C	THR	1084	15.952	108.817	36.490	1.00148.61	C
ATOM	8435	O	THR	1084	16.395	108.918	35.347	1.00148.61	O
ATOM	8436	N	GLN	1085	15.336	109.843	37.116	1.00139.46	N
ATOM	8437	CA	GLN	1085	15.225	111.121	36.480	1.00139.46	C
ATOM	8438	CB	GLN	1085	14.422	111.078	35.173	1.00139.46	C
ATOM	8439	CG	GLN	1085	12.957	110.692	35.372	1.00139.46	C
ATOM	8440	CD	GLN	1085	12.289	110.719	34.007	1.00139.46	C
ATOM	8441	OE1	GLN	1085	12.843	110.234	33.022	1.00139.46	O
ATOM	8442	NE2	GLN	1085	11.065	111.308	33.943	1.00139.46	N
ATOM	8443	C	GLN	1085	14.503	112.059	37.405	1.00139.46	C
ATOM	8444	O	GLN	1085	14.433	113.254	37.132	1.00139.46	O
ATOM	8445	N	LEU	1086	13.904	111.544	38.502	1.00144.62	N
ATOM	8446	CA	LEU	1086	13.240	112.401	39.452	1.00144.62	C
ATOM	8447	CB	LEU	1086	11.718	112.583	39.275	1.00144.62	C
ATOM	8448	CG	LEU	1086	11.289	113.648	38.245	1.00144.62	C
ATOM	8449	CD1	LEU	1086	11.758	115.050	38.663	1.00144.62	C
ATOM	8450	CD2	LEU	1086	11.705	113.288	36.822	1.00144.62	C
ATOM	8451	C	LEU	1086	13.445	111.889	40.843	1.00144.62	C
ATOM	8452	O	LEU	1086	13.540	110.685	41.081	1.00144.62	O
ATOM	8453	N	SER	1087	13.485	112.820	41.817	1.00 88.81	N
ATOM	8454	CA	SER	1087	13.728	112.427	43.171	1.00 88.81	C
ATOM	8455	CB	SER	1087	14.064	113.578	44.140	1.00 88.81	C
ATOM	8456	OG	SER	1087	12.906	114.332	44.453	1.00 88.81	O
ATOM	8457	C	SER	1087	12.528	111.711	43.689	1.00 88.81	C
ATOM	8458	O	SER	1087	11.439	111.761	43.119	1.00 88.81	O
ATOM	8459	N	GLY	1088	12.724	111.016	44.818	1.00 39.63	N
ATOM	8460	CA	GLY	1088	11.713	110.198	45.413	1.00 39.63	C
ATOM	8461	C	GLY	1088	10.550	111.051	45.796	1.00 39.63	C
ATOM	8462	O	GLY	1088	9.414	110.577	45.810	1.00 39.63	O
ATOM	8463	N	GLY	1089	10.800	112.326	46.155	1.00 36.64	N
ATOM	8464	CA	GLY	1089	9.709	113.138	46.606	1.00 36.64	C
ATOM	8465	C	GLY	1089	8.672	113.208	45.532	1.00 36.64	C
ATOM	8466	O	GLY	1089	7.493	112.967	45.788	1.00 36.64	O
ATOM	8467	N	GLN	1090	9.090	113.504	44.289	1.00101.32	N
ATOM	8468	CA	GLN	1090	8.154	113.597	43.205	1.00101.32	C
ATOM	8469	CB	GLN	1090	8.815	113.929	41.853	1.00101.32	C
ATOM	8470	CG	GLN	1090	9.445	115.319	41.758	1.00101.32	C
ATOM	8471	CD	GLN	1090	10.736	115.332	42.558	1.00101.32	C
ATOM	8472	OE1	GLN	1090	10.716	115.494	43.776	1.00101.32	O
ATOM	8473	NE2	GLN	1090	11.889	115.166	41.855	1.00101.32	N
ATOM	8474	C	GLN	1090	7.538	112.248	43.035	1.00101.32	C
ATOM	8475	O	GLN	1090	6.334	112.117	42.815	1.00101.32	O
ATOM	8476	N	LYS	1091	8.363	111.194	43.167	1.00 92.86	N
ATOM	8477	CA	LYS	1091	7.872	109.867	42.940	1.00 92.86	C
ATOM	8478	CB	LYS	1091	8.934	108.785	43.187	1.00 92.86	C
ATOM	8479	CG	LYS	1091	10.100	108.838	42.199	1.00 92.86	C
ATOM	8480	CD	LYS	1091	11.284	107.961	42.609	1.00 92.86	C
ATOM	8481	CE	LYS	1091	11.132	106.500	42.183	1.00 92.86	C
ATOM	8482	NZ	LYS	1091	11.388	106.374	40.731	1.00 92.86	N
ATOM	8483	C	LYS	1091	6.732	109.610	43.875	1.00 92.86	C
ATOM	8484	O	LYS	1091	5.671	109.152	43.453	1.00 92.86	O
ATOM	8485	N	GLN	1092	6.898	109.954	45.164	1.00 61.49	N
ATOM	8486	CA	GLN	1092	5.864	109.704	46.128	1.00 61.49	C
ATOM	8487	CB	GLN	1092	6.244	110.131	47.556	1.00 61.49	C
ATOM	8488	CG	GLN	1092	7.267	109.199	48.207	1.00 61.49	C
ATOM	8489	CD	GLN	1092	6.601	107.836	48.337	1.00 61.49	C
ATOM	8490	OE1	GLN	1092	6.156	107.254	47.349	1.00 61.49	O
ATOM	8491	NE2	GLN	1092	6.518	107.315	49.590	1.00 61.49	N
ATOM	8492	C	GLN	1092	4.651	110.469	45.716	1.00 61.49	C
ATOM	8493	O	GLN	1092	3.524	110.031	45.938	1.00 61.49	O
ATOM	8494	N	ARG	1093	4.846	111.650	45.107	1.00 91.98	N
ATOM	8495	CA	ARG	1093	3.704	112.400	44.685	1.00 91.98	C
ATOM	8496	CB	ARG	1093	4.090	113.709	43.978	1.00 91.98	C
ATOM	8497	CG	ARG	1093	4.640	114.753	44.951	1.00 91.98	C
ATOM	8498	CD	ARG	1093	5.190	116.017	44.290	1.00 91.98	C
ATOM	8499	NE	ARG	1093	5.454	116.990	45.388	1.00 91.98	N
ATOM	8500	CZ	ARG	1093	6.681	117.571	45.522	1.00 91.98	C
ATOM	8501	NH1	ARG	1093	7.686	117.253	44.656	1.00 91.98	N
ATOM	8502	NH2	ARG	1093	6.908	118.465	46.528	1.00 91.98	N
ATOM	8503	C	ARG	1093	2.929	111.553	43.722	1.00 91.98	C

ATOM	8504	O	ARG	1093	1.702	111.491	43.787	1.00	91.98	O
ATOM	8505	N	ILE	1094	3.632	110.866	42.805	1.00	61.81	N
ATOM	8506	CA	ILE	1094	2.984	110.053	41.808	1.00	61.81	C
ATOM	8507	CB	ILE	1094	3.969	109.473	40.836	1.00	61.81	C
ATOM	8508	CG1	ILE	1094	4.814	110.586	40.200	1.00	61.81	C
ATOM	8509	CG2	ILE	1094	3.191	108.641	39.801	1.00	61.81	C
ATOM	8510	CD1	ILE	1094	6.050	110.058	39.472	1.00	61.81	C
ATOM	8511	C	ILE	1094	2.290	108.885	42.452	1.00	61.81	C
ATOM	8512	O	ILE	1094	1.119	108.623	42.171	1.00	61.81	O
ATOM	8513	N	ALA	1095	2.985	108.183	43.375	1.00	52.93	N
ATOM	8514	CA	ALA	1095	2.454	106.973	43.943	1.00	52.93	C
ATOM	8515	CB	ALA	1095	3.362	106.380	45.033	1.00	52.93	C
ATOM	8516	C	ALA	1095	1.156	107.315	44.580	1.00	52.93	C
ATOM	8517	O	ALA	1095	0.157	106.620	44.400	1.00	52.93	O
ATOM	8518	N	ILE	1096	1.140	108.442	45.301	1.00	72.15	N
ATOM	8519	CA	ILE	1096	-0.033	108.910	45.970	1.00	72.15	C
ATOM	8520	CB	ILE	1096	0.245	110.148	46.756	1.00	72.15	C
ATOM	8521	CG1	ILE	1096	1.203	109.772	47.899	1.00	72.15	C
ATOM	8522	CG2	ILE	1096	-1.091	110.766	47.203	1.00	72.15	C
ATOM	8523	CD1	ILE	1096	1.901	110.955	48.552	1.00	72.15	C
ATOM	8524	C	ILE	1096	-1.074	109.182	44.947	1.00	72.15	C
ATOM	8525	O	ILE	1096	-2.257	108.931	45.187	1.00	72.15	O
ATOM	8526	N	ALA	1097	-0.654	109.712	43.780	1.00	81.81	N
ATOM	8527	CA	ALA	1097	-1.623	109.994	42.767	1.00	81.81	C
ATOM	8528	CB	ALA	1097	-0.993	110.501	41.459	1.00	81.81	C
ATOM	8529	C	ALA	1097	-2.291	108.708	42.470	1.00	81.81	C
ATOM	8530	O	ALA	1097	-3.473	108.590	42.769	1.00	81.81	O
ATOM	8531	N	ARG	1098	-1.491	107.670	42.146	1.00	127.33	N
ATOM	8532	CA	ARG	1098	-1.940	106.370	41.728	1.00	127.33	C
ATOM	8533	CB	ARG	1098	-0.799	105.357	41.890	1.00	127.33	C
ATOM	8534	CG	ARG	1098	-1.123	103.912	41.525	1.00	127.33	C
ATOM	8535	CD	ARG	1098	-0.162	102.919	42.190	1.00	127.33	C
ATOM	8536	NE	ARG	1098	1.212	103.499	42.117	1.00	127.33	N
ATOM	8537	CZ	ARG	1098	2.313	102.695	42.040	1.00	127.33	C
ATOM	8538	NH1	ARG	1098	2.171	101.346	41.892	1.00	127.33	N
ATOM	8539	NH2	ARG	1098	3.562	103.246	42.074	1.00	127.33	N
ATOM	8540	C	ARG	1098	-2.992	105.963	42.702	1.00	127.33	C
ATOM	8541	O	ARG	1098	-4.101	105.605	42.307	1.00	127.33	O
ATOM	8542	N	ALA	1099	-2.691	106.114	44.006	1.00	79.98	N
ATOM	8543	CA	ALA	1099	-3.644	105.746	45.010	1.00	79.98	C
ATOM	8544	CB	ALA	1099	-3.063	105.861	46.431	1.00	79.98	C
ATOM	8545	C	ALA	1099	-4.881	106.596	44.978	1.00	79.98	C
ATOM	8546	O								

ATOM	8578	OE1	GLN	1103	-10.724	109.401	44.971	1.00	84.56	O
ATOM	8579	NE2	GLN	1103	-11.190	110.312	42.940	1.00	84.56	N
ATOM	8580	C	GLN	1103	-10.472	105.489	46.125	1.00	84.56	C
ATOM	8581	O	GLN	1103	-11.560	104.914	46.082	1.00	84.56	O
ATOM	8582	N	PRO	1104	-9.562	105.163	47.032	1.00	129.09	N
ATOM	8583	CA	PRO	1104	-9.811	104.138	48.017	1.00	129.09	C
ATOM	8584	CD	PRO	1104	-8.129	105.293	46.787	1.00	129.09	C
ATOM	8585	CB	PRO	1104	-8.451	103.709	48.562	1.00	129.09	C
ATOM	8586	CG	PRO	1104	-7.466	104.083	47.452	1.00	129.09	C
ATOM	8587	C	PRO	1104	-10.674	104.660	49.120	1.00	129.09	C
ATOM	8588	O	PRO	1104	-11.247	105.735	48.966	1.00	129.09	O
ATOM	8589	N	HIS	1105	-11.007	103.792	50.092	1.00	133.55	N
ATOM	8590	CA	HIS	1105	-11.606	104.139	51.349	1.00	133.55	C
ATOM	8591	ND1	HIS	1105	-13.818	103.096	49.325	1.00	133.55	N
ATOM	8592	CG	HIS	1105	-13.888	103.514	50.635	1.00	133.55	C
ATOM	8593	CB	HIS	1105	-12.818	103.252	51.653	1.00	133.55	C
ATOM	8594	NE2	HIS	1105	-15.722	104.227	49.529	1.00	133.55	N
ATOM	8595	CD2	HIS	1105	-15.057	104.203	50.742	1.00	133.55	C
ATOM	8596	CE1	HIS	1105	-14.939	103.549	48.709	1.00	133.55	C
ATOM	8597	C	HIS	1105	-10.622	104.106	52.490	1.00	133.55	C
ATOM	8598	O	HIS	1105	-10.775	104.791	53.500	1.00	133.55	O
ATOM	8599	N	ILE	1106	-9.599	103.237	52.381	1.00	91.93	N
ATOM	8600	CA	ILE	1106	-8.643	103.042	53.435	1.00	91.93	C
ATOM	8601	CB	ILE	1106	-8.561	101.635	53.938	1.00	91.93	C
ATOM	8602	CG1	ILE	1106	-7.600	101.584	55.136	1.00	91.93	C
ATOM	8603	CG2	ILE	1106	-8.169	100.718	52.769	1.00	91.93	C
ATOM	8604	CD1	ILE	1106	-7.433	100.201	55.745	1.00	91.93	C
ATOM	8605	C	ILE	1106	-7.298	103.355	52.857	1.00	91.93	C
ATOM	8606	O	ILE	1106	-7.161	103.411	51.637	1.00	91.93	O
ATOM	8607	N	LEU	1107	-6.285	103.637	53.712	1.00	93.29	N
ATOM	8608	CA	LEU	1107	-4.971	103.927	53.192	1.00	93.29	C
ATOM	8609	CB	LEU	1107	-4.613	105.423	53.197	1.00	93.29	C
ATOM	8610	CG	LEU	1107	-5.508	106.310	52.316	1.00	93.29	C
ATOM	8611	CD1	LEU	1107	-5.040	107.774	52.366	1.00	93.29	C
ATOM	8612	CD2	LEU	1107	-5.610	105.767	50.882	1.00	93.29	C
ATOM	8613	C	LEU	1107	-3.918	103.268	54.035	1.00	93.29	C
ATOM	8614	O	LEU	1107	-4.011	103.205	55.257	1.00	93.29	O
ATOM	8615	N	LEU	1108	-2.861	102.755	53.384	1.00	91.95	N
ATOM	8616	CA	LEU	1108	-1.764	102.153	54.070	1.00	91.95	C
ATOM	8617	CB	LEU	1108	-1.493	100.738	53.527	1.00	91.95	C
ATOM	8618	CG	LEU	1108	-2.741	99.830	53.633	1.00	91.95	C
ATOM	8619	CD1	LEU	1108	-2.475	98.419	53.088	1.00	91.95	C
ATOM	8620	CD2	LEU	1108	-3.298	99.802	55.066	1.00	91.95	C
ATOM	8621	C	LEU	1108	-0.575	103.022	53.785	1.00	91.95	C
ATOM	8622	O	LEU	1108	0.075	102.879	52.749	1.00	91.95	O
ATOM	8623	N	LEU	1109	-0.259	103.962	54.704	1.00	130.12	N
ATOM	8624	CA	LEU	1109	0.876	104.806	54.466	1.00	130.12	C
ATOM	8625	CB	LEU	1109	0.700	106.262	54.936	1.00	130.12	C
ATOM	8626	CG	LEU	1109	-0.602	106.931	54.446	1.00	130.12	C
ATOM	8627	CD1	LEU	1109	-0.822	106.732	52.938	1.00	130.12	C
ATOM	8628	CD2	LEU	1109	-1.806	106.526	55.307	1.00	130.12	C
ATOM	8629	C	LEU	1109	1.994	104.212	55.261	1.00	130.12	C
ATOM	8630	O	LEU	1109	2.156	104.510	56.444	1.00	130.12	O
ATOM	8631	N	ASP	1110	2.815	103.377	54.597	1.00	75.21	N
ATOM	8632	CA	ASP	1110	3.863	102.634	55.234	1.00	75.21	C
ATOM	8633	CB	ASP	1110	4.186	101.331	54.476	1.00	75.21	C
ATOM	8634	CG	ASP	1110	5.156	100.462	55.273	1.00	75.21	C
ATOM	8635	OD1	ASP	1110	6.166	100.990	55.811	1.00	75.21	O
ATOM	8636	OD2	ASP	1110	4.886	99.234	55.347	1.00	75.21	O
ATOM	8637	C	ASP	1110	5.107	103.453	55.274	1.00	75.21	C
ATOM	8638	O	ASP	1110	5.971	103.289	54.411	1.00	75.21	O
ATOM	8639	N	GLU	1111	5.206	104.346	56.287	1.00	89.64	N
ATOM	8640	CA	GLU	1111	6.369	105.154	56.536	1.00	89.64	C
ATOM	8641	CB	GLU	1111	7.555	104.347	57.086	1.00	89.64	C
ATOM	8642	CG	GLU	1111	7.321	103.782	58.486	1.00	89.64	C
ATOM	8643	CD	GLU	1111	8.557	102.982	58.869	1.00	89.64	C
ATOM	8644	OE1	GLU	1111	8.920	102.054	58.099	1.00	89.64	O
ATOM	8645	OE2	GLU	1111	9.156	103.288	59.934	1.00	89.64	O
ATOM	8646	C	GLU	1111	6.806	105.732	55.242	1.00	89.64	C
ATOM	8647	O	GLU	1111	8.012	105.817	55.008	1.00	89.64	O
ATOM	8648	N	ALA	1112	5.841	106.201	54.417	1.00	78.90	N
ATOM	8649	CA	ALA	1112	6.158	106.536	53.059	1.00	78.90	C
ATOM	8650	CB	ALA	1112	4.975	107.172	52.309	1.00	78.90	C
ATOM	8651	C	ALA	1112	7.296	107.504	53.017	1.00	78.90	C

ATOM	8652	O	ALA	1112	8.358	107.154	52.509	1.00	78.90	O
ATOM	8653	N	THR	1113	7.186	108.668	53.679	1.00	143.32	N
ATOM	8654	CA	THR	1113	8.288	109.586	53.601	1.00	143.32	C
ATOM	8655	CB	THR	1113	7.860	111.009	53.814	1.00	143.32	C
ATOM	8656	OG1	THR	1113	6.841	111.352	52.889	1.00	143.32	O
ATOM	8657	CG2	THR	1113	9.066	111.934	53.605	1.00	143.32	C
ATOM	8658	C	THR	1113	9.204	109.244	54.736	1.00	143.32	C
ATOM	8659	O	THR	1113	9.101	109.807	55.825	1.00	143.32	O
ATOM	8660	N	SER	1114	10.038	108.205	54.541	1.00	93.11	N
ATOM	8661	CA	SER	1114	11.043	107.834	55.493	1.00	93.11	C
ATOM	8662	CB	SER	1114	11.204	106.310	55.623	1.00	93.11	C
ATOM	8663	OG	SER	1114	12.124	106.002	56.658	1.00	93.11	O
ATOM	8664	C	SER	1114	12.359	108.427	55.098	1.00	93.11	C
ATOM	8665	O	SER	1114	13.287	108.464	55.899	1.00	93.11	O
ATOM	8666	N	ALA	1115	12.508	108.824	53.819	1.00	60.94	N
ATOM	8667	CA	ALA	1115	13.731	109.439	53.383	1.00	60.94	C
ATOM	8668	CB	ALA	1115	14.651	108.489	52.597	1.00	60.94	C
ATOM	8669	C	ALA	1115	13.327	110.530	52.448	1.00	60.94	C
ATOM	8670	O	ALA	1115	12.700	110.268	51.421	1.00	60.94	O
ATOM	8671	N	LEU	1116	13.691	111.789	52.769	1.00	102.79	N
ATOM	8672	CA	LEU	1116	13.240	112.847	51.918	1.00	102.79	C
ATOM	8673	CB	LEU	1116	11.704	112.917	51.892	1.00	102.79	C
ATOM	8674	CG	LEU	1116	11.100	113.778	50.776	1.00	102.79	C
ATOM	8675	CD1	LEU	1116	11.551	113.274	49.393	1.00	102.79	C
ATOM	8676	CD2	LEU	1116	9.567	113.803	50.908	1.00	102.79	C
ATOM	8677	C	LEU	1116	13.810	114.139	52.445	1.00	102.79	C
ATOM	8678	O	LEU	1116	14.765	114.122	53.223	1.00	102.79	O
ATOM	8679	N	ASP	1117	13.253	115.293	51.995	1.00	170.06	N
ATOM	8680	CA	ASP	1117	13.724	116.603	52.376	1.00	170.06	C
ATOM	8681	CB	ASP	1117	14.261	117.424	51.201	1.00	170.06	C
ATOM	8682	CG	ASP	1117	15.458	116.719	50.604	1.00	170.06	C
ATOM	8683	OD1	ASP	1117	16.277	116.148	51.374	1.00	170.06	O
ATOM	8684	OD2	ASP	1117	15.555	116.736	49.350	1.00	170.06	O
ATOM	8685	C	ASP	1117	12.576	117.429	52.879	1.00	170.06	C
ATOM	8686	O	ASP	1117	11.454	116.949	53.012	1.00	170.06	O
ATOM	8687	N	THR	1118	12.856	118.731	53.127	1.00	118.30	N
ATOM	8688	CA	THR	1118	11.949	119.656	53.755	1.00	118.30	C
ATOM	8689	CB	THR	1118	12.542	121.023	53.890	1.00	118.30	C
ATOM	8690	OG1	THR	1118	13.741	120.966	54.643	1.00	118.30	O
ATOM	8691	CG2	THR	1118	11.517	121.923	54.594	1.00	118.30	C
ATOM	8692	C	THR	1118	10.644	119.864	53.034	1.00	118.30	C
ATOM	8693	O	THR	1118	9.589	119.557	53.583	1.00	118.30	O
ATOM	8694	N	GLU	1119	10.672	120.393	51.793	1.00	144.22	N
ATOM	8695	CA	GLU	1119	9.471	120.731	51.064	1.00	144.22	C
ATOM	8696	CB	GLU	1119	9.752	121.590	49.817	1.00	144.22	C
ATOM	8697	CG	GLU	1119	8.493	122.201	49.194	1.00	144.22	C
ATOM	8698	CD	GLU	1119	8.044	123.363	50.072	1.00	144.22	C
ATOM	8699	OE1	GLU	1119	7.838	123.135	51.294	1.00	144.22	O
ATOM	8700	OE2	GLU	1119	7.906	124.494	49.535	1.00	144.22	O
ATOM	8701	C	GLU	1119	8.793	119.487	50.618	1.00	144.22	C
ATOM	8702	O	GLU	1119	7.573	119.425	50.469	1.00	144.22	O
ATOM	8703	N	SER	1120	9.599	118.468	50.312	1.00	57.89	N
ATOM	8704	CA	SER	1120	9.036	117.246	49.853	1.00	57.89	C
ATOM	8705	CB	SER	1120	10.132	116.268	49.416	1.00	57.89	C
ATOM	8706	OG	SER	1120	10.946	116.873	48.422	1.00	57.89	O
ATOM	8707	C	SER	1120	8.281	116.658	50.991	1.00	57.89	C
ATOM	8708	O	SER	1120	7.098	116.343	50.874	1.00	57.89	O
ATOM	8709	N	GLU	1121	8.941	116.551	52.156	1.00	120.38	N
ATOM	8710	CA	GLU	1121	8.285	115.913	53.252	1.00	120.38	C
ATOM	8711	CB	GLU	1121	9.165	115.832	54.508	1.00	120.38	C
ATOM	8712	CG	GLU	1121	9.620	117.193	55.030	1.00	120.38	C
ATOM	8713	CD	GLU	1121	10.567	116.947	56.190	1.00	120.38	C
ATOM	8714	OE1	GLU	1121	10.506	115.834	56.778	1.00	120.38	O
ATOM	8715	OE2	GLU	1121	11.368	117.869	56.500	1.00	120.38	O
ATOM	8716	C	GLU	1121	7.057	116.690	53.591	1.00	120.38	C
ATOM	8717	O	GLU	1121	5.958	116.143	53.598	1.00	120.38	O
ATOM	8718	N	LYS	1122	7.207	118.010	53.790	1.00	127.58	N
ATOM	8719	CA	LYS	1122	6.121	118.835	54.222	1.00	127.58	C
ATOM	8720	CB	LYS	1122	6.592	120.290	54.429	1.00	127.58	C
ATOM	8721	CG	LYS	1122	5.533	121.294	54.895	1.00	127.58	C
ATOM	8722	CD	LYS	1122	4.491	121.653	53.833	1.00	127.58	C
ATOM	8723	CE	LYS	1122	3.110	121.050	54.082	1.00	127.58	C
ATOM	8724	NZ	LYS	1122	2.197	121.428	52.980	1.00	127.58	N
ATOM	8725	C	LYS	1122	5.004	118.808	53.225	1.00	127.58	C

ATOM	8726	O	LYS	1122	3.877	118.461	53.571	1.00127.58	O
ATOM	8727	N	VAL	1123	5.294	119.076	51.940	1.00 98.71	N
ATOM	8728	CA	VAL	1123	4.237	119.186	50.975	1.00 98.71	C
ATOM	8729	CB	VAL	1123	4.732	119.493	49.588	1.00 98.71	C
ATOM	8730	CG1	VAL	1123	5.524	118.289	49.046	1.00 98.71	C
ATOM	8731	CG2	VAL	1123	3.523	119.883	48.723	1.00 98.71	C
ATOM	8732	C	VAL	1123	3.481	117.895	50.923	1.00 98.71	C
ATOM	8733	O	VAL	1123	2.256	117.889	50.812	1.00 98.71	O
ATOM	8734	N	VAL	1124	4.204	116.765	51.018	1.00 50.25	N
ATOM	8735	CA	VAL	1124	3.625	115.454	50.948	1.00 50.25	C
ATOM	8736	CB	VAL	1124	4.653	114.358	50.964	1.00 50.25	C
ATOM	8737	CG1	VAL	1124	3.932	113.006	51.105	1.00 50.25	C
ATOM	8738	CG2	VAL	1124	5.498	114.466	49.682	1.00 50.25	C
ATOM	8739	C	VAL	1124	2.712	115.235	52.110	1.00 50.25	C
ATOM	8740	O	VAL	1124	1.677	114.587	51.973	1.00 50.25	O
ATOM	8741	N	GLN	1125	3.080	115.756	53.292	1.00120.63	N
ATOM	8742	CA	GLN	1125	2.287	115.592	54.472	1.00120.63	C
ATOM	8743	CB	GLN	1125	2.928	116.260	55.699	1.00120.63	C
ATOM	8744	CG	GLN	1125	2.293	115.841	57.023	1.00120.63	C
ATOM	8745	CD	GLN	1125	2.749	114.416	57.308	1.00120.63	C
ATOM	8746	OE1	GLN	1125	2.647	113.536	56.454	1.00120.63	O
ATOM	8747	NE2	GLN	1125	3.279	114.182	58.539	1.00120.63	N
ATOM	8748	C	GLN	1125	0.993	116.271	54.191	1.00120.63	C
ATOM	8749	O	GLN	1125	-0.055	115.857	54.684	1.00120.63	O
ATOM	8750	N	GLU	1126	1.059	117.374	53.422	1.00 71.68	N
ATOM	8751	CA	GLU	1126	-0.108	118.099	53.025	1.00 71.68	C
ATOM	8752	CB	GLU	1126	0.228	119.405	52.283	1.00 71.68	C
ATOM	8753	CG	GLU	1126	-0.995	120.216	51.847	1.00 71.68	C
ATOM	8754	CD	GLU	1126	-1.310	119.874	50.398	1.00 71.68	C
ATOM	8755	OE1	GLU	1126	-0.343	119.611	49.635	1.00 71.68	O
ATOM	8756	OE2	GLU	1126	-2.516	119.877	50.034	1.00 71.68	O
ATOM	8757	C	GLU	1126	-0.903	117.231	52.104	1.00 71.68	C
ATOM	8758	O	GLU	1126	-2.128	117.174	52.201	1.00 71.68	O
ATOM	8759	N	ALA	1127	-0.226	116.536	51.168	1.00 57.04	N
ATOM	8760	CA	ALA	1127	-0.964	115.713	50.256	1.00 57.04	C
ATOM	8761	CB	ALA	1127	-0.068	115.048	49.199	1.00 57.04	C
ATOM	8762	C	ALA	1127	-1.626	114.622	51.032	1.00 57.04	C
ATOM	8763	O	ALA	1127	-2.847	114.513	51.042	1.00 57.04	O
ATOM	8764	N	LEU	1128	-0.839	113.878	51.826	1.00120.62	N
ATOM	8765	CA	LEU	1128	-1.331	112.767	52.588	1.00120.62	C
ATOM	8766	CB	LEU	1128	-0.202	112.148	53.446	1.00120.62	C
ATOM	8767	CG	LEU	1128	-0.538	110.885	54.271	1.00120.62	C
ATOM	8768	CD1	LEU	1128	0.711	110.392	55.017	1.00120.62	C
ATOM	8769	CD2	LEU	1128	-1.703	111.094	55.248	1.00120.62	C
ATOM	8770	C	LEU	1128	-2.402	113.331	53.468	1.00120.62	C
ATOM	8771	O	LEU	1128	-3.388	112.661	53.776	1.00120.62	O
ATOM	8772	N	ASP	1129	-2.224	114.594	53.897	1.00 76.01	N
ATOM	8773	CA	ASP	1129	-3.183	115.207	54.767	1.00 76.01	C
ATOM	8774	CB	ASP	1129	-2.764	116.626	55.188	1.00 76.01	C
ATOM	8775	CG	ASP	1129	-3.620	117.045	56.376	1.00 76.01	C
ATOM	8776	OD1	ASP	1129	-4.872	116.933	56.288	1.00 76.01	O
ATOM	8777	OD2	ASP	1129	-3.026	117.488	57.393	1.00 76.01	O
ATOM	8778	C	ASP	1129	-4.536	115.303	54.111	1.00 76.01	C
ATOM	8779	O	ASP	1129	-5.496	114.680	54.560	1.00 76.01	O
ATOM	8780	N	LYS	1130	-4.637	116.032	52.984	1.00140.66	N
ATOM	8781	CA	LYS	1130	-5.890	116.249	52.308	1.00140.66	C
ATOM	8782	CB	LYS	1130	-5.759	117.189	51.101	1.00140.66	C
ATOM	8783	CG	LYS	1130	-5.277	118.580	51.504	1.00140.66	C
ATOM	8784	CD	LYS	1130	-6.203	119.273	52.503	1.00140.66	C
ATOM	8785	CE	LYS	1130	-5.542	120.449	53.222	1.00140.66	C
ATOM	8786	NZ	LYS	1130	-4.509	119.945	54.156	1.00140.66	N
ATOM	8787	C	LYS	1130	-6.337	114.931	51.797	1.00140.66	C
ATOM	8788	O	LYS	1130	-7.520	114.685	51.576	1.00140.66	O
ATOM	8789	N	ALA	1131	-5.354	114.061	51.550	1.00 45.69	N
ATOM	8790	CA	ALA	1131	-5.586	112.754	51.038	1.00 45.69	C
ATOM	8791	CB	ALA	1131	-4.287	111.958	50.820	1.00 45.69	C
ATOM	8792	C	ALA	1131	-6.415	112.018	52.039	1.00 45.69	C
ATOM	8793	O	ALA	1131	-7.282	111.239	51.658	1.00 45.69	O
ATOM	8794	N	ARG	1132	-6.159	112.238	53.346	1.00113.16	N
ATOM	8795	CA	ARG	1132	-6.865	111.547	54.391	1.00113.16	C
ATOM	8796	CB	ARG	1132	-6.004	111.298	55.644	1.00113.16	C
ATOM	8797	CG	ARG	1132	-5.544	112.586	56.335	1.00113.16	C
ATOM	8798	CD	ARG	1132	-4.406	112.384	57.341	1.00113.16	C
ATOM	8799	NE	ARG	1132	-4.183	113.672	58.061	1.00113.16	N

ATOM	8800	CZ	ARG	1132	-2.980	113.921	58.661	1.00113.16	C
ATOM	8801	NH1	ARG	1132	-1.956	113.029	58.532	1.00113.16	N
ATOM	8802	NH2	ARG	1132	-2.797	115.061	59.390	1.00113.16	N
ATOM	8803	C	ARG	1132	-8.048	112.356	54.825	1.00113.16	C
ATOM	8804	O	ARG	1132	-8.407	113.357	54.211	1.00113.16	O
ATOM	8805	N	GLU	1133	-8.747	111.856	55.866	1.00 80.77	N
ATOM	8806	CA	GLU	1133	-9.886	112.470	56.498	1.00 80.77	C
ATOM	8807	CB	GLU	1133	-9.645	113.964	56.773	1.00 80.77	C
ATOM	8808	CG	GLU	1133	-10.732	114.638	57.609	1.00 80.77	C
ATOM	8809	CD	GLU	1133	-10.329	116.096	57.779	1.00 80.77	C
ATOM	8810	OE1	GLU	1133	-9.217	116.458	57.311	1.00 80.77	O
ATOM	8811	OE2	GLU	1133	-11.127	116.867	58.376	1.00 80.77	O
ATOM	8812	C	GLU	1133	-11.065	112.331	55.591	1.00 80.77	C
ATOM	8813	O	GLU	1133	-12.215	112.370	56.027	1.00 80.77	O
ATOM	8814	N	GLY	1134	-10.797	112.141	54.292	1.00 57.18	N
ATOM	8815	CA	GLY	1134	-11.796	111.812	53.332	1.00 57.18	C
ATOM	8816	C	GLY	1134	-12.102	110.377	53.574	1.00 57.18	C
ATOM	8817	O	GLY	1134	-13.214	109.905	53.345	1.00 57.18	O
ATOM	8818	N	ARG	1135	-11.063	109.630	54.003	1.00170.29	N
ATOM	8819	CA	ARG	1135	-11.235	108.222	54.179	1.00170.29	C
ATOM	8820	CB	ARG	1135	-10.974	107.441	52.884	1.00170.29	C
ATOM	8821	CG	ARG	1135	-9.560	107.588	52.323	1.00170.29	C
ATOM	8822	CD	ARG	1135	-9.314	108.908	51.594	1.00170.29	C
ATOM	8823	NE	ARG	1135	-7.986	108.792	50.935	1.00170.29	N
ATOM	8824	CZ	ARG	1135	-7.876	108.523	49.601	1.00170.29	C
ATOM	8825	NH1	ARG	1135	-8.986	108.403	48.814	1.00170.29	N
ATOM	8826	NH2	ARG	1135	-6.636	108.405	49.045	1.00170.29	N
ATOM	8827	C	ARG	1135	-10.317	107.722	55.255	1.00170.29	C
ATOM	8828	O	ARG	1135	-9.411	108.424	55.705	1.00170.29	O
ATOM	8829	N	THR	1136	-10.551	106.469	55.701	1.00119.45	N
ATOM	8830	CA	THR	1136	-9.784	105.894	56.769	1.00119.45	C
ATOM	8831	CB	THR	1136	-10.363	104.625	57.328	1.00119.45	C
ATOM	8832	OG1	THR	1136	-9.777	104.323	58.583	1.00119.45	O
ATOM	8833	CG2	THR	1136	-10.062	103.482	56.351	1.00119.45	C
ATOM	8834	C	THR	1136	-8.424	105.566	56.250	1.00119.45	C
ATOM	8835	O	THR	1136	-8.260	105.192	55.089	1.00119.45	O
ATOM	8836	N	CYS	1137	-7.392	105.726	57.104	1.00 70.40	N
ATOM	8837	CA	CYS	1137	-6.079	105.402	56.636	1.00 70.40	C
ATOM	8838	CB	CYS	1137	-5.439	106.527	55.803	1.00 70.40	C
ATOM	8839	SG	CYS	1137	-5.308	108.098	56.706	1.00 70.40	S
ATOM	8840	C	CYS	1137	-5.182	105.106	57.797	1.00 70.40	C
ATOM	8841	O	CYS	1137	-5.102	105.857	58.769	1.00 70.40	O
ATOM	8842	N	ILE	1138	-4.448	103.985	57.707	1.00 73.38	N
ATOM	8843	CA	ILE	1138	-3.551	103.656	58.766	1.0	



ATOM	8874	CB	HIS	1142	10.231	105.574	61.668	1.00112.72	C
ATOM	8875	NE2	HIS	1142	12.888	105.791	64.277	1.00112.72	N
ATOM	8876	CD2	HIS	1142	12.252	106.287	63.152	1.00112.72	C
ATOM	8877	CE1	HIS	1142	12.234	104.681	64.568	1.00112.72	C
ATOM	8878	C	HIS	1142	8.869	107.392	62.604	1.00112.72	C
ATOM	8879	O	HIS	1142	9.670	107.794	63.445	1.00112.72	O
ATOM	8880	N	ARG	1143	8.084	108.239	61.901	1.00152.98	N
ATOM	8881	CA	ARG	1143	8.092	109.650	62.183	1.00152.98	C
ATOM	8882	CB	ARG	1143	7.318	110.474	61.142	1.00152.98	C
ATOM	8883	CG	ARG	1143	7.945	110.451	59.750	1.00152.98	C
ATOM	8884	CD	ARG	1143	9.125	111.409	59.606	1.00152.98	C
ATOM	8885	NE	ARG	1143	9.616	111.297	58.205	1.00152.98	N
ATOM	8886	CZ	ARG	1143	9.938	112.431	57.520	1.00152.98	C
ATOM	8887	NH1	ARG	1143	9.800	113.645	58.126	1.00152.98	N
ATOM	8888	NH2	ARG	1143	10.393	112.356	56.235	1.00152.98	N
ATOM	8889	C	ARG	1143	7.387	109.847	63.486	1.00152.98	C
ATOM	8890	O	ARG	1143	6.263	110.340	63.549	1.00152.98	O
ATOM	8891	N	LEU	1144	8.105	109.563	64.580	1.00138.51	N
ATOM	8892	CA	LEU	1144	7.581	109.588	65.907	1.00138.51	C
ATOM	8893	CB	LEU	1144	8.675	109.302	66.944	1.00138.51	C
ATOM	8894	CG	LEU	1144	9.495	108.035	66.634	1.00138.51	C
ATOM	8895	CD1	LEU	1144	10.469	107.717	67.779	1.00138.51	C
ATOM	8896	CD2	LEU	1144	8.607	106.846	66.236	1.00138.51	C
ATOM	8897	C	LEU	1144	7.095	110.979	66.154	1.00138.51	C
ATOM	8898	O	LEU	1144	6.172	111.193	66.938	1.00138.51	O
ATOM	8899	N	SER	1145	7.779	111.963	65.544	1.00 68.29	N
ATOM	8900	CA	SER	1145	7.448	113.356	65.669	1.00 68.29	C
ATOM	8901	CB	SER	1145	8.529	114.256	65.049	1.00 68.29	C
ATOM	8902	OG	SER	1145	8.662	113.976	63.663	1.00 68.29	O
ATOM	8903	C	SER	1145	6.132	113.734	65.029	1.00 68.29	C
ATOM	8904	O	SER	1145	5.193	114.134	65.715	1.00 68.29	O
ATOM	8905	N	THR	1146	6.029	113.573	63.692	1.00 87.51	N
ATOM	8906	CA	THR	1146	4.946	114.017	62.838	1.00 87.51	C
ATOM	8907	CB	THR	1146	5.260	113.896	61.375	1.00 87.51	C
ATOM	8908	OG1	THR	1146	5.428	112.533	61.017	1.00 87.51	O
ATOM	8909	CG2	THR	1146	6.548	114.684	61.084	1.00 87.51	C
ATOM	8910	C	THR	1146	3.676	113.258	63.086	1.00 87.51	C
ATOM	8911	O	THR	1146	2.607	113.641	62.613	1.00 87.51	O
ATOM	8912	N	ILE	1147	3.777	112.119	63.777	1.00 89.96	N
ATOM	8913	CA	ILE	1147	2.700	111.210	64.053	1.00 89.96	C
ATOM	8914	CB	ILE	1147	3.145	109.976	64.777	1.00 89.96	C
ATOM	8915	CG1	ILE	1147	2.014	108.938	64.762	1.00 89.96	C
ATOM	8916	CG2	ILE	1147	3.619	110.375	66.185	1.00 89.96	C
ATOM	8917	CD1	ILE	1147	2.473	107.535	65.142	1.00 89.96	C
ATOM	8918	C	ILE	1147	1.602	111.850	64.857	1.00 89.96	C
ATOM	8919	O	ILE	1147	0.463	111.385	64.835	1.00 89.96	O
ATOM	8920	N	GLN	1148	1.912	112.927	65.597	1.00 84.98	N
ATOM	8921	CA	GLN	1148	1.019	113.509	66.560	1.00 84.98	C
ATOM	8922	CB	GLN	1148	1.533	114.859	67.087	1.00 84.98	C
ATOM	8923	CG	GLN	1148	2.805	114.736	67.928	1.00 84.98	C
ATOM	8924	CD	GLN	1148	3.231	116.138	68.340	1.00 84.98	C
ATOM	8925	OE1	GLN	1148	3.904	116.839	67.587	1.00 84.98	O
ATOM	8926	NE2	GLN	1148	2.830	116.561	69.568	1.00 84.98	N
ATOM	8927	C	GLN	1148	-0.354	113.736	65.991	1.00 84.98	C
ATOM	8928	O	GLN	1148	-1.335	113.613	66.722	1.00 84.98	O
ATOM	8929	N	ASN	1149	-0.494	114.084	64.699	1.00204.57	N
ATOM	8930	CA	ASN	1149	-1.819	114.341	64.193	1.00204.57	C
ATOM	8931	CB	ASN	1149	-1.794	114.967	62.791	1.00204.57	C
ATOM	8932	CG	ASN	1149	-0.768	116.086	62.726	1.00204.57	C
ATOM	8933	OD1	ASN	1149	-0.190	116.497	63.731	1.00204.57	O
ATOM	8934	ND2	ASN	1149	-0.522	116.582	61.484	1.00204.57	N
ATOM	8935	C	ASN	1149	-2.492	113.014	63.955	1.00204.57	C
ATOM	8936	O	ASN	1149	-2.834	112.704	62.815	1.00204.57	O
ATOM	8937	N	ALA	1150	-2.765	112.218	65.011	1.00 60.77	N
ATOM	8938	CA	ALA	1150	-3.346	110.919	64.774	1.00 60.77	C
ATOM	8939	CB	ALA	1150	-2.410	109.758	65.150	1.00 60.77	C
ATOM	8940	C	ALA	1150	-4.596	110.764	65.586	1.00 60.77	C
ATOM	8941	O	ALA	1150	-4.710	111.316	66.679	1.00 60.77	O
ATOM	8942	N	ASP	1151	-5.605	110.052	65.029	1.00 74.17	N
ATOM	8943	CA	ASP	1151	-6.832	109.830	65.747	1.00 74.17	C
ATOM	8944	CB	ASP	1151	-7.933	109.223	64.860	1.00 74.17	C
ATOM	8945	CG	ASP	1151	-8.291	110.246	63.790	1.00 74.17	C
ATOM	8946	OD1	ASP	1151	-7.530	111.238	63.641	1.00 74.17	O
ATOM	8947	OD2	ASP	1151	-9.328	110.045	63.104	1.00 74.17	O

ATOM	8948	C	ASP	1151	-6.613	108.879	66.887	1.00	74.17	C
ATOM	8949	O	ASP	1151	-6.814	109.222	68.052	1.00	74.17	O
ATOM	8950	N	LEU	1152	-6.150	107.653	66.570	1.00	71.22	N
ATOM	8951	CA	LEU	1152	-5.926	106.641	67.566	1.00	71.22	C
ATOM	8952	CB	LEU	1152	-6.846	105.418	67.386	1.00	71.22	C
ATOM	8953	CG	LEU	1152	-6.590	104.280	68.392	1.00	71.22	C
ATOM	8954	CD1	LEU	1152	-6.867	104.737	69.832	1.00	71.22	C
ATOM	8955	CD2	LEU	1152	-7.365	103.007	68.009	1.00	71.22	C
ATOM	8956	C	LEU	1152	-4.533	106.156	67.363	1.00	71.22	C
ATOM	8957	O	LEU	1152	-4.247	105.480	66.377	1.00	71.22	O
ATOM	8958	N	ILE	1153	-3.634	106.454	68.317	1.00	84.49	N
ATOM	8959	CA	ILE	1153	-2.266	106.066	68.142	1.00	84.49	C
ATOM	8960	CB	ILE	1153	-1.297	107.121	68.606	1.00	84.49	C
ATOM	8961	CG1	ILE	1153	-1.467	108.411	67.781	1.00	84.49	C
ATOM	8962	CG2	ILE	1153	0.123	106.534	68.544	1.00	84.49	C
ATOM	8963	CD1	ILE	1153	-2.793	109.134	68.022	1.00	84.49	C
ATOM	8964	C	ILE	1153	-2.038	104.838	68.960	1.00	84.49	C
ATOM	8965	O	ILE	1153	-2.130	104.866	70.187	1.00	84.49	O
ATOM	8966	N	VAL	1154	-1.732	103.713	68.282	1.00	44.15	N
ATOM	8967	CA	VAL	1154	-1.532	102.485	68.993	1.00	44.15	C
ATOM	8968	CB	VAL	1154	-2.252	101.313	68.391	1.00	44.15	C
ATOM	8969	CG1	VAL	1154	-1.895	100.054	69.199	1.00	44.15	C
ATOM	8970	CG2	VAL	1154	-3.758	101.624	68.358	1.00	44.15	C
ATOM	8971	C	VAL	1154	-0.079	102.161	68.975	1.00	44.15	C
ATOM	8972	O	VAL	1154	0.587	102.240	67.944	1.00	44.15	O
ATOM	8973	N	VAL	1155	0.451	101.791	70.153	1.00	52.35	N
ATOM	8974	CA	VAL	1155	1.832	101.443	70.255	1.00	52.35	C
ATOM	8975	CB	VAL	1155	2.474	101.999	71.494	1.00	52.35	C
ATOM	8976	CG1	VAL	1155	3.944	101.550	71.544	1.00	52.35	C
ATOM	8977	CG2	VAL	1155	2.277	103.526	71.505	1.00	52.35	C
ATOM	8978	C	VAL	1155	1.872	99.962	70.350	1.00	52.35	C
ATOM	8979	O	VAL	1155	1.455	99.388	71.356	1.00	52.35	O
ATOM	8980	N	PHE	1156	2.375	99.293	69.297	1.00	72.41	N
ATOM	8981	CA	PHE	1156	2.389	97.870	69.405	1.00	72.41	C
ATOM	8982	CB	PHE	1156	1.848	97.096	68.182	1.00	72.41	C
ATOM	8983	CG	PHE	1156	2.860	97.034	67.091	1.00	72.41	C
ATOM	8984	CD1	PHE	1156	3.775	96.005	67.075	1.00	72.41	C
ATOM	8985	CD2	PHE	1156	2.892	97.971	66.085	1.00	72.41	C
ATOM	8986	CE1	PHE	1156	4.718	95.913	66.081	1.00	72.41	C
ATOM	8987	CE2	PHE	1156	3.833	97.884	65.086	1.00	72.41	C
ATOM	8988	CZ	PHE	1156	4.747	96.857	65.083	1.00	72.41	C
ATOM	8989	C	PHE	1156	3.801	97.463	69.635	1.00	72.41	C
ATOM	8990	O	PHE	1156	4.737	98.103	69.154	1.00	72.41	O
ATOM	8991	N	GLN	1157	3.995	96.394	70.426	1.00	126.14	N
ATOM	8992	CA	GLN	1157	5.335	95.974	70.668	1.00	126.14	C
ATOM	8993	CB	GLN	1157	5.655	95.878	72.171	1.00	126.14	C
ATOM	8994	CG	GLN	1157	7.148	95.847	72.503	1.00	126.14	C
ATOM	8995	CD	GLN	1157	7.742	94.568	71.945	1.00	126.14	C
ATOM	8996	OE1	GLN	1157	8.262	94.550	70.831	1.00	126.14	O
ATOM	8997	NE2	GLN	1157	7.643	93.464	72.732	1.00	126.14	N
ATOM	8998	C	GLN	1157	5.475	94.618	70.071	1.00	126.14	C
ATOM	8999	O	GLN	1157	5.236	93.624	70.757	1.00	126.14	O
ATOM	9000	N	ASN	1158	5.833	94.581	68.765	1.00	117.88	N
ATOM	9001	CA	ASN	1158	6.147	93.398	68.006	1.00	117.88	C
ATOM	9002	CB	ASN	1158	7.646	93.050	67.949	1.00	117.88	C
ATOM	9003	CG	ASN	1158	8.299	93.939	66.897	1.00	117.88	C
ATOM	9004	OD1	ASN	1158	7.780	94.099	65.793	1.00	117.88	O
ATOM	9005	ND2	ASN	1158	9.472	94.530	67.246	1.00	117.88	N
ATOM	9006	C	ASN	1158	5.390	92.192	68.468	1.00	117.88	C
ATOM	9007	O	ASN	1158	5.889	91.431	69.296	1.00	117.88	O
ATOM	9008	N	GLY	1159	4.141	92.016	67.999	1.00	49.11	N
ATOM	9009	CA	GLY	1159	3.405	90.832	68.336	1.00	49.11	C
ATOM	9010	C	GLY	1159	2.292	91.151	69.287	1.00	49.11	C
ATOM	9011	O	GLY	1159	1.246	90.505	69.234	1.00	49.11	O
ATOM	9012	N	ARG	1160	2.464	92.146	70.181	1.00	143.21	N
ATOM	9013	CA	ARG	1160	1.393	92.429	71.100	1.00	143.21	C
ATOM	9014	CB	ARG	1160	1.583	91.740	72.462	1.00	143.21	C
ATOM	9015	CG	ARG	1160	2.895	92.099	73.159	1.00	143.21	C
ATOM	9016	CD	ARG	1160	4.119	91.353	72.622	1.00	143.21	C
ATOM	9017	NE	ARG	1160	3.916	89.904	72.903	1.00	143.21	N
ATOM	9018	CZ	ARG	1160	4.990	89.072	73.031	1.00	143.21	C
ATOM	9019	NH1	ARG	1160	6.257	89.569	72.930	1.00	143.21	N
ATOM	9020	NH2	ARG	1160	4.798	87.741	73.265	1.00	143.21	N
ATOM	9021	C	ARG	1160	1.277	93.914	71.308	1.00	143.21	C

ATOM	9022	O	ARG	1160	2.285	94.612	71.411	1.00143.21	O
ATOM	9023	N	VAL	1161	0.029	94.444	71.381	1.00144.86	N
ATOM	9024	CA	VAL	1161	-0.100	95.872	71.542	1.00144.86	C
ATOM	9025	CB	VAL	1161	-1.256	96.521	70.827	1.00144.86	C
ATOM	9026	CG1	VAL	1161	-1.082	96.312	69.315	1.00144.86	C
ATOM	9027	CG2	VAL	1161	-2.586	96.021	71.410	1.00144.86	C
ATOM	9028	C	VAL	1161	-0.214	96.234	72.995	1.00144.86	C
ATOM	9029	O	VAL	1161	-1.116	95.792	73.707	1.00144.86	O
ATOM	9030	N	LYS	1162	0.790	96.992	73.482	1.00146.64	N
ATOM	9031	CA	LYS	1162	0.862	97.462	74.837	1.00146.64	C
ATOM	9032	CB	LYS	1162	2.309	97.707	75.290	1.00146.64	C
ATOM	9033	CG	LYS	1162	2.442	97.803	76.809	1.00146.64	C
ATOM	9034	CD	LYS	1162	2.161	96.473	77.512	1.00146.64	C
ATOM	9035	CE	LYS	1162	2.284	96.547	79.032	1.00146.64	C
ATOM	9036	NZ	LYS	1162	3.694	96.782	79.414	1.00146.64	N
ATOM	9037	C	LYS	1162	0.083	98.723	75.134	1.00146.64	C
ATOM	9038	O	LYS	1162	-0.565	98.820	76.175	1.00146.64	O
ATOM	9039	N	GLU	1163	0.129	99.746	74.248	1.00 83.64	N
ATOM	9040	CA	GLU	1163	-0.453	101.011	74.635	1.00 83.64	C
ATOM	9041	CB	GLU	1163	0.597	102.088	74.949	1.00 83.64	C
ATOM	9042	CG	GLU	1163	1.447	101.778	76.181	1.00 83.64	C
ATOM	9043	CD	GLU	1163	2.445	102.912	76.351	1.00 83.64	C
ATOM	9044	OE1	GLU	1163	2.316	103.926	75.614	1.00 83.64	O
ATOM	9045	OE2	GLU	1163	3.352	102.778	77.216	1.00 83.64	O
ATOM	9046	C	GLU	1163	-1.282	101.554	73.517	1.00 83.64	C
ATOM	9047	O	GLU	1163	-1.295	101.004	72.418	1.00 83.64	O
ATOM	9048	N	HIS	1164	-2.044	102.638	73.797	1.00 65.90	N
ATOM	9049	CA	HIS	1164	-2.818	103.255	72.756	1.00 65.90	C
ATOM	9050	ND1	HIS	1164	-6.213	103.006	72.804	1.00 65.90	N
ATOM	9051	CG	HIS	1164	-5.095	102.222	72.981	1.00 65.90	C
ATOM	9052	CB	HIS	1164	-3.866	102.324	72.129	1.00 65.90	C
ATOM	9053	NE2	HIS	1164	-6.626	101.699	74.554	1.00 65.90	N
ATOM	9054	CD2	HIS	1164	-5.365	101.428	74.053	1.00 65.90	C
ATOM	9055	CE1	HIS	1164	-7.097	102.653	73.771	1.00 65.90	C
ATOM	9056	C	HIS	1164	-3.589	104.397	73.341	1.00 65.90	C
ATOM	9057	O	HIS	1164	-3.740	104.500	74.558	1.00 65.90	O
ATOM	9058	N	GLY	1165	-4.106	105.288	72.465	1.00 29.29	N
ATOM	9059	CA	GLY	1165	-4.895	106.398	72.919	1.00 29.29	C
ATOM	9060	C	GLY	1165	-4.451	107.626	72.187	1.00 29.29	C
ATOM	9061	O	GLY	1165	-3.924	107.553	71.078	1.00 29.29	O
ATOM	9062	N	THR	1166	-4.683	108.802	72.808	1.00 70.81	N
ATOM	9063	CA	THR	1166	-4.326	110.069	72.237	1.00 70.81	C
ATOM	9064	CB	THR	1166	-5.147	111.191	72.792	1.00 70.81	C
ATOM	9065	OG1	THR	1166	-6.524	110.911	72.631	1.00 70.81	O
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ATOM	9096	O	GLN	1169	-1.529	109.058	78.001	1.00	42.64	O
ATOM	9097	N	LEU	1170	-1.104	109.337	75.800	1.00	52.92	N
ATOM	9098	CA	LEU	1170	-0.059	108.351	75.768	1.00	52.92	C
ATOM	9099	CB	LEU	1170	0.526	108.137	74.362	1.00	52.92	C
ATOM	9100	CG	LEU	1170	-0.447	107.525	73.337	1.00	52.92	C
ATOM	9101	CD1	LEU	1170	0.240	107.356	71.972	1.00	52.92	C
ATOM	9102	CD2	LEU	1170	-1.063	106.213	73.852	1.00	52.92	C
ATOM	9103	C	LEU	1170	1.079	108.811	76.621	1.00	52.92	C
ATOM	9104	O	LEU	1170	1.614	108.049	77.425	1.00	52.92	O
ATOM	9105	N	LEU	1171	1.467	110.091	76.472	1.00	48.75	N
ATOM	9106	CA	LEU	1171	2.560	110.632	77.221	1.00	48.75	C
ATOM	9107	CB	LEU	1171	2.836	112.106	76.879	1.00	48.75	C
ATOM	9108	CG	LEU	1171	4.004	112.717	77.670	1.00	48.75	C
ATOM	9109	CD1	LEU	1171	5.312	111.955	77.411	1.00	48.75	C
ATOM	9110	CD2	LEU	1171	4.130	114.223	77.388	1.00	48.75	C
ATOM	9111	C	LEU	1171	2.159	110.545	78.647	1.00	48.75	C
ATOM	9112	O	LEU	1171	2.978	110.258	79.516	1.00	48.75	O
ATOM	9113	N	ALA	1172	0.859	110.758	78.916	1.00	39.03	N
ATOM	9114	CA	ALA	1172	0.383	110.708	80.262	1.00	39.03	C
ATOM	9115	CB	ALA	1172	-1.142	110.883	80.362	1.00	39.03	C
ATOM	9116	C	ALA	1172	0.718	109.349	80.769	1.00	39.03	C
ATOM	9117	O	ALA	1172	1.136	109.188	81.915	1.00	39.03	O
ATOM	9118	N	GLN	1173	0.554	108.329	79.911	1.00	75.00	N
ATOM	9119	CA	GLN	1173	0.903	107.007	80.319	1.00	75.00	C
ATOM	9120	CB	GLN	1173	0.248	105.951	79.419	1.00	75.00	C
ATOM	9121	CG	GLN	1173	-1.280	105.988	79.497	1.00	75.00	C
ATOM	9122	CD	GLN	1173	-1.816	105.255	78.282	1.00	75.00	C
ATOM	9123	OE1	GLN	1173	-1.133	105.155	77.264	1.00	75.00	O
ATOM	9124	NE2	GLN	1173	-3.070	104.738	78.379	1.00	75.00	N
ATOM	9125	C	GLN	1173	2.382	106.924	80.149	1.00	75.00	C
ATOM	9126	O	GLN	1173	2.882	106.299	79.216	1.00	75.00	O
ATOM	9127	N	LYS	1174	3.122	107.533	81.093	1.00	136.05	N
ATOM	9128	CA	LYS	1174	4.550	107.577	81.002	1.00	136.05	C
ATOM	9129	CB	LYS	1174	5.220	108.192	82.242	1.00	136.05	C
ATOM	9130	CG	LYS	1174	4.623	109.532	82.674	1.00	136.05	C
ATOM	9131	CD	LYS	1174	4.697	110.623	81.612	1.00	136.05	C
ATOM	9132	CE	LYS	1174	3.914	111.884	81.981	1.00	136.05	C
ATOM	9133	NZ	LYS	1174	2.473	111.569	82.095	1.00	136.05	N
ATOM	9134	C	LYS	1174	5.000	106.161	80.956	1.00	136.05	C
ATOM	9135	O	LYS	1174	4.567	105.337	81.762	1.00	136.05	O
ATOM	9136	N	GLY	1175	5.894	105.836	80.007	1.00	38.13	N
ATOM	9137	CA	GLY	1175	6.306	104.473	79.930	1.00	38.13	C
ATOM	9138	C	GLY	1175	6.902	104.232	78.584	1.00	38.13	C
ATOM	9139	O	GLY	1175	7.859	104.890	78.181	1.00	38.13	O
ATOM	9140	N	ILE	1176	6.346	103.242	77.864	1.00	84.06	N
ATOM	9141	CA	ILE	1176	6.911	102.828	76.616	1.00	84.06	C
ATOM	9142	CB	ILE	1176	6.161	101.654	76.073	1.00	84.06	C
ATOM	9143	CG1	ILE	1176	6.192	100.528	77.118	1.00	84.06	C
ATOM	9144	CG2	ILE	1176	6.764	101.257	74.715	1.00	84.06	C
ATOM	9145	CD1	ILE	1176	5.120	99.471	76.896	1.00	84.06	C
ATOM	9146	C	ILE	1176	6.857	103.925	75.589	1.00	84.06	C
ATOM	9147	O	ILE	1176	7.897	104.380	75.119	1.00	84.06	O
ATOM	9148	N	TYR	1177	5.658	104.461	75.295	1.00	81.93	N
ATOM	9149	CA	TYR	1177	5.503	105.461	74.268	1.00	81.93	C
ATOM	9150	CB	TYR	1177	4.052	105.959	74.147	1.00	81.93	C
ATOM	9151	CG	TYR	1177	4.030	107.090	73.177	1.00	81.93	C
ATOM	9152	CD1	TYR	1177	4.039	106.855	71.821	1.00	81.93	C
ATOM	9153	CD2	TYR	1177	3.993	108.390	73.627	1.00	81.93	C
ATOM	9154	CE1	TYR	1177	4.016	107.903	70.931	1.00	81.93	C
ATOM	9155	CE2	TYR	1177	3.970	109.441	72.742	1.00	81.93	C
ATOM	9156	CZ	TYR	1177	3.981	109.198	71.390	1.00	81.93	C
ATOM	9157	OH	TYR	1177	3.956	110.274	70.477	1.00	81.93	O
ATOM	9158	C	TYR	1177	6.354	106.624	74.648	1.00	81.93	C
ATOM	9159	O	TYR	1177	6.937	107.291	73.795	1.00	81.93	O
ATOM	9160	N	PHE	1178	6.414	106.906	75.958	1.00	113.04	N
ATOM	9161	CA	PHE	1178	7.184	107.994	76.484	1.00	113.04	C
ATOM	9162	CB	PHE	1178	7.087	108.036	78.023	1.00	113.04	C
ATOM	9163	CG	PHE	1178	7.815	109.221	78.563	1.00	113.04	C
ATOM	9164	CD1	PHE	1178	9.191	109.256	78.596	1.00	113.04	C
ATOM	9165	CD2	PHE	1178	7.113	110.290	79.070	1.00	113.04	C
ATOM	9166	CE1	PHE	1178	9.858	110.345	79.102	1.00	113.04	C
ATOM	9167	CE2	PHE	1178	7.772	111.383	79.578	1.00	113.04	C
ATOM	9168	CZ	PHE	1178	9.146	111.412	79.592	1.00	113.04	C
ATOM	9169	C	PHE	1178	8.620	107.748	76.133	1.00	113.04	C

ATOM	9170	O	PHE	1178	9.303	108.606	75.575	1.00	113.04	O
ATOM	9171	N	SER	1179	9.112	106.530	76.411	1.00	84.67	N
ATOM	9172	CA	SER	1179	10.495	106.260	76.168	1.00	84.67	C
ATOM	9173	CB	SER	1179	10.897	104.824	76.538	1.00	84.67	C
ATOM	9174	OG	SER	1179	10.740	104.626	77.934	1.00	84.67	O
ATOM	9175	C	SER	1179	10.726	106.428	74.706	1.00	84.67	C
ATOM	9176	O	SER	1179	11.837	106.720	74.284	1.00	84.67	O
ATOM	9177	N	MET	1180	9.690	106.218	73.880	1.00	95.78	N
ATOM	9178	CA	MET	1180	9.862	106.386	72.465	1.00	95.78	C
ATOM	9179	CB	MET	1180	8.617	105.971	71.661	1.00	95.78	C
ATOM	9180	CG	MET	1180	8.274	104.483	71.779	1.00	95.78	C
ATOM	9181	SD	MET	1180	9.565	103.358	71.166	1.00	95.78	S
ATOM	9182	CE	MET	1180	9.429	103.852	69.424	1.00	95.78	C
ATOM	9183	C	MET	1180	10.131	107.824	72.160	1.00	95.78	C
ATOM	9184	O	MET	1180	11.012	108.144	71.362	1.00	95.78	O
ATOM	9185	N	VAL	1181	9.380	108.750	72.785	1.00	131.45	N
ATOM	9186	CA	VAL	1181	9.682	110.117	72.496	1.00	131.45	C
ATOM	9187	CB	VAL	1181	8.675	111.126	72.988	1.00	131.45	C
ATOM	9188	CG1	VAL	1181	7.407	110.960	72.134	1.00	131.45	C
ATOM	9189	CG2	VAL	1181	8.402	110.940	74.484	1.00	131.45	C
ATOM	9190	C	VAL	1181	11.049	110.343	73.048	1.00	131.45	C
ATOM	9191	O	VAL	1181	11.812	111.173	72.558	1.00	131.45	O
ATOM	9192	N	SER	1182	11.381	109.579	74.102	1.00	103.93	N
ATOM	9193	CA	SER	1182	12.659	109.631	74.750	1.00	103.93	C
ATOM	9194	CB	SER	1182	12.695	108.701	75.973	1.00	103.93	C
ATOM	9195	OG	SER	1182	13.964	108.765	76.598	1.00	103.93	O
ATOM	9196	C	SER	1182	13.790	109.228	73.804	1.00	103.93	C
ATOM	9197	O	SER	1182	14.783	109.947	73.707	1.00	103.93	O
ATOM	9198	N	VAL	1183	13.676	108.087	73.074	1.00	128.18	N
ATOM	9199	CA	VAL	1183	14.689	107.582	72.164	1.00	128.18	C
ATOM	9200	CB	VAL	1183	14.312	106.285	71.503	1.00	128.18	C
ATOM	9201	CG1	VAL	1183	13.080	106.510	70.612	1.00	128.18	C
ATOM	9202	CG2	VAL	1183	15.536	105.757	70.734	1.00	128.18	C
ATOM	9203	C	VAL	1183	14.806	108.636	71.106	1.00	128.18	C
ATOM	9204	O	VAL	1183	15.890	108.907	70.593	1.00	128.18	O
ATOM	9205	N	GLN	1184	13.662	109.275	70.778	1.00	45.64	N
ATOM	9206	CA	GLN	1184	13.581	110.286	69.759	1.00	45.64	C
ATOM	9207	CB	GLN	1184	12.154	110.825	69.567	1.00	45.64	C
ATOM	9208	CG	GLN	1184	12.052	111.904	68.488	1.00	45.64	C
ATOM	9209	CD	GLN	1184	10.597	112.341	68.411	1.00	45.64	C
ATOM	9210	OE1	GLN	1184	9.990	112.708	69.416	1.00	45.64	O
ATOM	9211	NE2	GLN	1184	10.015	112.287	67.184			