

EXPDTA THEORETICAL MODEL, MODELLER 9.15 2016/04/13 14:00:43

REMARK 6 MODELLER OBJECTIVE FUNCTION: -131149.7031

REMARK 6 MODELLER BEST TEMPLATE % SEQ ID: 89.086

REMARK 6 SEQUENCE: human

REMARK 6 DOPE score: -131149.70313

REMARK 6 GA341 score: 1.00000

REMARK 6 TEMPLATE: 3G5UA

ATOM	1	N	VAL	1	49.892	80.263	10.834	1.00	31.31	N
ATOM	2	CA	VAL	1	50.201	81.372	11.764	1.00	31.31	C
ATOM	3	CB	VAL	1	49.457	82.606	11.357	1.00	31.31	C
ATOM	4	CG1	VAL	1	49.964	83.050	9.974	1.00	31.31	C
ATOM	5	CG2	VAL	1	47.952	82.293	11.392	1.00	31.31	C
ATOM	6	C	VAL	1	49.805	81.016	13.154	1.00	31.31	C
ATOM	7	O	VAL	1	49.554	79.860	13.460	1.00	31.31	O
ATOM	8	N	SER	2	49.723	82.000	14.059	1.00	83.96	N
ATOM	9	CA	SER	2	49.399	81.652	15.409	1.00	83.96	C
ATOM	10	CB	SER	2	49.358	82.872	16.340	1.00	83.96	C
ATOM	11	OG	SER	2	50.656	83.435	16.447	1.00	83.96	O
ATOM	12	C	SER	2	48.049	81.013	15.429	1.00	83.96	C
ATOM	13	O	SER	2	47.826	80.052	16.165	1.00	83.96	O
ATOM	14	N	VAL	3	47.104	81.516	14.613	1.00	86.56	N
ATOM	15	CA	VAL	3	45.808	80.924	14.697	1.00	86.56	C
ATOM	16	CB	VAL	3	44.778	81.611	13.836	1.00	86.56	C
ATOM	17	CG1	VAL	3	44.551	83.017	14.409	1.00	86.56	C
ATOM	18	CG2	VAL	3	45.241	81.639	12.369	1.00	86.56	C
ATOM	19	C	VAL	3	45.850	79.466	14.347	1.00	86.56	C
ATOM	20	O	VAL	3	45.628	78.653	15.232	1.00	86.56	O
ATOM	21	N	PHE	4	46.149	79.078	13.084	1.00	131.13	N
ATOM	22	CA	PHE	4	46.145	77.684	12.698	1.00	131.13	C
ATOM	23	CB	PHE	4	46.257	77.463	11.178	1.00	131.13	C
ATOM	24	CG	PHE	4	45.125	78.095	10.446	1.00	131.13	C
ATOM	25	CD1	PHE	4	45.183	79.426	10.104	1.00	131.13	C
ATOM	26	CD2	PHE	4	44.022	77.359	10.079	1.00	131.13	C
ATOM	27	CE1	PHE	4	44.154	80.024	9.420	1.00	131.13	C
ATOM	28	CE2	PHE	4	42.990	77.954	9.393	1.00	131.13	C
ATOM	29	CZ	PHE	4	43.052	79.287	9.063	1.00	131.13	C
ATOM	30	C	PHE	4	47.341	76.966	13.244	1.00	131.13	C
ATOM	31	O	PHE	4	47.236	75.917	13.879	1.00	131.13	O
ATOM	32	N	SER	5	48.529	77.534	12.976	1.00	97.05	N
ATOM	33	CA	SER	5	49.796	76.947	13.304	1.00	97.05	C
ATOM	34	CB	SER	5	50.992	77.671	12.659	1.00	97.05	C
ATOM	35	OG	SER	5	52.206	77.036	13.030	1.00	97.05	O
ATOM	36	C	SER	5	50.039	76.897	14.776	1.00	97.05	C
ATOM	37	O	SER	5	50.376	75.839	15.291	1.00	97.05	O
ATOM	38	N	MET	6	49.869	78.012	15.514	1.00	85.10	N
ATOM	39	CA	MET	6	50.159	77.957	16.923	1.00	85.10	C
ATOM	40	CB	MET	6	49.996	79.299	17.654	1.00	85.10	C
ATOM	41	CG	MET	6	51.090	79.538	18.700	1.00	85.10	C
ATOM	42	SD	MET	6	51.236	78.287	20.008	1.00	85.10	S
ATOM	43	CE	MET	6	52.979	78.654	20.374	1.00	85.10	C
ATOM	44	C	MET	6	49.160	76.985	17.444	1.00	85.10	C
ATOM	45	O	MET	6	49.426	76.218	18.368	1.00	85.10	O
ATOM	46	N	PHE	7	47.984	76.979	16.792	1.00	117.96	N
ATOM	47	CA	PHE	7	46.927	76.078	17.136	1.00	117.96	C
ATOM	48	CB	PHE	7	45.736	76.126	16.172	1.00	117.96	C
ATOM	49	CG	PHE	7	44.622	75.235	16.598	1.00	117.96	C
ATOM	50	CD1	PHE	7	43.682	75.680	17.498	1.00	117.96	C
ATOM	51	CD2	PHE	7	44.509	73.958	16.095	1.00	117.96	C
ATOM	52	CE1	PHE	7	42.645	74.869	17.888	1.00	117.96	C
ATOM	53	CE2	PHE	7	43.473	73.142	16.480	1.00	117.96	C
ATOM	54	CZ	PHE	7	42.539	73.600	17.374	1.00	117.96	C
ATOM	55	C	PHE	7	47.472	74.707	16.988	1.00	117.96	C
ATOM	56	O	PHE	7	47.209	73.847	17.825	1.00	117.96	O
ATOM	57	N	ARG	8	48.216	74.438	15.898	1.00	220.52	N
ATOM	58	CA	ARG	8	48.728	73.108	15.836	1.00	220.52	C
ATOM	59	CB	ARG	8	48.276	72.344	14.580	1.00	220.52	C
ATOM	60	CG	ARG	8	48.716	70.880	14.572	1.00	220.52	C
ATOM	61	CD	ARG	8	47.840	69.983	13.696	1.00	220.52	C
ATOM	62	NE	ARG	8	47.756	70.599	12.342	1.00	220.52	N
ATOM	63	CZ	ARG	8	48.720	70.331	11.415	1.00	220.52	C
ATOM	64	NH1	ARG	8	49.754	69.501	11.734	1.00	220.52	N
ATOM	65	NH2	ARG	8	48.652	70.892	10.173	1.00	220.52	N
ATOM	66	C	ARG	8	50.218	73.190	15.880	1.00	220.52	C
ATOM	67	O	ARG	8	50.885	73.175	14.847	1.00	220.52	O

ATOM	68	N	TYR	9	50.779	73.251	17.103	1.00129.23	N
ATOM	69	CA	TYR	9	52.195	73.385	17.285	1.00129.23	C
ATOM	70	CB	TYR	9	52.605	74.640	18.081	1.00129.23	C
ATOM	71	CG	TYR	9	52.289	74.453	19.526	1.00129.23	C
ATOM	72	CD1	TYR	9	50.998	74.265	19.958	1.00129.23	C
ATOM	73	CD2	TYR	9	53.298	74.511	20.461	1.00129.23	C
ATOM	74	CE1	TYR	9	50.720	74.103	21.297	1.00129.23	C
ATOM	75	CE2	TYR	9	53.026	74.352	21.800	1.00129.23	C
ATOM	76	CZ	TYR	9	51.737	74.145	22.222	1.00129.23	C
ATOM	77	OH	TYR	9	51.462	73.981	23.596	1.00129.23	O
ATOM	78	C	TYR	9	52.615	72.168	18.063	1.00129.23	C
ATOM	79	O	TYR	9	51.836	71.228	18.198	1.00129.23	O
ATOM	80	N	SER	10	53.879	72.134	18.538	1.00160.35	N
ATOM	81	CA	SER	10	54.437	71.066	19.336	1.00160.35	C
ATOM	82	CB	SER	10	54.022	71.091	20.819	1.00160.35	C
ATOM	83	OG	SER	10	54.689	72.149	21.490	1.00160.35	O
ATOM	84	C	SER	10	54.190	69.668	18.820	1.00160.35	C
ATOM	85	O	SER	10	53.343	68.970	19.374	1.00160.35	O
ATOM	86	N	ASN	11	54.890	69.207	17.745	1.00198.89	N
ATOM	87	CA	ASN	11	54.658	67.828	17.352	1.00198.89	C
ATOM	88	CB	ASN	11	53.424	67.663	16.434	1.00198.89	C
ATOM	89	CG	ASN	11	52.119	68.011	17.135	1.00198.89	C
ATOM	90	OD1	ASN	11	51.749	67.395	18.134	1.00198.89	O
ATOM	91	ND2	ASN	11	51.403	69.035	16.599	1.00198.89	N
ATOM	92	C	ASN	11	55.749	67.277	16.466	1.00198.89	C
ATOM	93	O	ASN	11	55.626	67.387	15.247	1.00198.89	O
ATOM	94	N	TRP	12	56.846	66.680	16.989	1.00106.91	N
ATOM	95	CA	TRP	12	57.745	66.060	16.043	1.00106.91	C
ATOM	96	CB	TRP	12	59.087	65.647	16.669	1.00106.91	C
ATOM	97	CG	TRP	12	60.020	64.969	15.697	1.00106.91	C
ATOM	98	CD2	TRP	12	61.297	64.415	16.051	1.00106.91	C
ATOM	99	CD1	TRP	12	59.862	64.745	14.360	1.00106.91	C
ATOM	100	NE1	TRP	12	60.961	64.088	13.860	1.00106.91	N
ATOM	101	CE2	TRP	12	61.852	63.880	14.893	1.00106.91	C
ATOM	102	CE3	TRP	12	61.951	64.361	17.250	1.00106.91	C
ATOM	103	CZ2	TRP	12	63.078	63.276	14.910	1.00106.91	C
ATOM	104	CZ3	TRP	12	63.186	63.750	17.265	1.00106.91	C
ATOM	105	CH2	TRP	12	63.737	63.219	16.118	1.00106.91	C
ATOM	106	C	TRP	12	57.135	64.801	15.486	1.00106.91	C
ATOM	107	O	TRP	12	56.562	64.775	14.398	1.00106.91	O
ATOM	108	N	LEU	13	57.152	63.740	16.319	1.00111.31	N
ATOM	109	CA	LEU	13	56.667	62.435	15.971	1.00111.31	C
ATOM	110	CB	LEU	13	56.875	61.385	17.080	1.00111.31	C
ATOM	111	CG	LEU	13	58.352	61.112	17.428	1.00111.31	C
ATOM	112	CD1	LEU	13	59.108	60.465	16.256	1.00111.31	C
ATOM	113	CD2	LEU	13	59.040	62.382	17.949	1.00111.31	C
ATOM	114	C	LEU	13	55.202	62.601	15.801	1.00111.31	C
ATOM	115	O	LEU	13	54.540	61.833	15.104	1.00111.31	O
ATOM	116	N	ASP	14	54.651	63.589	16.522	1.00 75.71	N
ATOM	117	CA	ASP	14	53.243	63.826	16.463	1.00 75.71	C
ATOM	118	CB	ASP	14	52.778	64.957	17.398	1.00 75.71	C
ATOM	119	CG	ASP	14	52.868	64.515	18.852	1.00 75.71	C
ATOM	120	OD1	ASP	14	53.018	63.290	19.102	1.00 75.71	O
ATOM	121	OD2	ASP	14	52.780	65.409	19.737	1.00 75.71	O
ATOM	122	C	ASP	14	52.846	64.231	15.076	1.00 75.71	C
ATOM	123	O	ASP	14	52.010	63.591	14.441	1.00 75.71	O
ATOM	124	N	LYS	15	53.507	65.264	14.528	1.00 76.18	N
ATOM	125	CA	LYS	15	53.100	65.800	13.260	1.00 76.18	C
ATOM	126	CB	LYS	15	53.983	66.985	12.836	1.00 76.18	C
ATOM	127	CG	LYS	15	53.324	67.934	11.835	1.00 76.18	C
ATOM	128	CD	LYS	15	54.052	69.278	11.749	1.00 76.18	C
ATOM	129	CE	LYS	15	53.246	70.388	11.076	1.00 76.18	C
ATOM	130	NZ	LYS	15	52.354	71.034	12.065	1.00 76.18	N
ATOM	131	C	LYS	15	53.204	64.722	12.229	1.00 76.18	C
ATOM	132	O	LYS	15	52.372	64.623	11.327	1.00 76.18	O
ATOM	133	N	LEU	16	54.248	63.886	12.334	1.00 50.66	N
ATOM	134	CA	LEU	16	54.451	62.829	11.388	1.00 50.66	C
ATOM	135	CB	LEU	16	55.757	62.066	11.656	1.00 50.66	C
ATOM	136	CG	LEU	16	57.000	62.976	11.620	1.00 50.66	C
ATOM	137	CD1	LEU	16	58.289	62.164	11.812	1.00 50.66	C
ATOM	138	CD2	LEU	16	57.016	63.859	10.361	1.00 50.66	C
ATOM	139	C	LEU	16	53.327	61.846	11.479	1.00 50.66	C
ATOM	140	O	LEU	16	52.752	61.452	10.465	1.00 50.66	O
ATOM	141	N	TYR	17	52.947	61.442	12.704	1.00 63.71	N

ATOM	142	CA	TYR	17	51.910	60.456	12.795	1.00	63.71	C
ATOM	143	CB	TYR	17	51.585	59.954	14.210	1.00	63.71	C
ATOM	144	CG	TYR	17	50.658	58.804	13.983	1.00	63.71	C
ATOM	145	CD1	TYR	17	51.168	57.597	13.560	1.00	63.71	C
ATOM	146	CD2	TYR	17	49.299	58.915	14.176	1.00	63.71	C
ATOM	147	CE1	TYR	17	50.345	56.519	13.333	1.00	63.71	C
ATOM	148	CE2	TYR	17	48.469	57.839	13.950	1.00	63.71	C
ATOM	149	CZ	TYR	17	48.991	56.638	13.528	1.00	63.71	C
ATOM	150	OH	TYR	17	48.147	55.532	13.295	1.00	63.71	O
ATOM	151	C	TYR	17	50.671	61.068	12.238	1.00	63.71	C
ATOM	152	O	TYR	17	49.844	60.387	11.635	1.00	63.71	O
ATOM	153	N	MET	18	50.503	62.385	12.455	1.00	69.41	N
ATOM	154	CA	MET	18	49.314	63.045	12.007	1.00	69.41	C
ATOM	155	CB	MET	18	49.343	64.545	12.346	1.00	69.41	C
ATOM	156	CG	MET	18	48.098	65.313	11.895	1.00	69.41	C
ATOM	157	SD	MET	18	48.041	67.038	12.467	1.00	69.41	S
ATOM	158	CE	MET	18	47.541	66.623	14.162	1.00	69.41	C
ATOM	159	C	MET	18	49.166	62.920	10.516	1.00	69.41	C
ATOM	160	O	MET	18	48.141	62.446	10.030	1.00	69.41	O
ATOM	161	N	VAL	19	50.213	63.258	9.744	1.00	39.32	N
ATOM	162	CA	VAL	19	50.086	63.257	8.314	1.00	39.32	C
ATOM	163	CB	VAL	19	51.360	63.649	7.627	1.00	39.32	C
ATOM	164	CG1	VAL	19	51.166	63.512	6.107	1.00	39.32	C
ATOM	165	CG2	VAL	19	51.737	65.069	8.081	1.00	39.32	C
ATOM	166	C	VAL	19	49.742	61.876	7.872	1.00	39.32	C
ATOM	167	O	VAL	19	48.964	61.690	6.936	1.00	39.32	O
ATOM	168	N	VAL	20	50.320	60.864	8.538	1.00	42.75	N
ATOM	169	CA	VAL	20	50.066	59.509	8.150	1.00	42.75	C
ATOM	170	CB	VAL	20	50.752	58.504	9.028	1.00	42.75	C
ATOM	171	CG1	VAL	20	50.251	57.105	8.633	1.00	42.75	C
ATOM	172	CG2	VAL	20	52.276	58.673	8.898	1.00	42.75	C
ATOM	173	C	VAL	20	48.600	59.225	8.264	1.00	42.75	C
ATOM	174	O	VAL	20	47.974	58.763	7.312	1.00	42.75	O
ATOM	175	N	GLY	21	48.004	59.553	9.424	1.00	34.78	N
ATOM	176	CA	GLY	21	46.631	59.232	9.693	1.00	34.78	C
ATOM	177	C	GLY	21	45.744	59.893	8.692	1.00	34.78	C
ATOM	178	O	GLY	21	44.750	59.306	8.266	1.00	34.78	O
ATOM	179	N	THR	22	46.066	61.139	8.292	1.00	142.27	N
ATOM	180	CA	THR	22	45.201	61.780	7.350	1.00	142.27	C
ATOM	181	CB	THR	22	45.586	63.178	6.950	1.00	142.27	C
ATOM	182	OG1	THR	22	46.933	63.226	6.512	1.00	142.27	O
ATOM	183	CG2	THR	22	45.342	64.143	8.118	1.00	142.27	C
ATOM	184	C	THR	22	45.164	60.943	6.120	1.00	142.27	C
ATOM	185	O	THR	22	44.093	60.698	5.573	1.00	142.27	O
ATOM	186	N	LEU	23	46.323	60.401	5.711	1.00	57.52	N
ATOM	187	CA	LEU	23	46.403	59.635	4.502	1.00	57.52	C
ATOM	188	CB	LEU	23	47.780	58.974	4.345	1.00	57.52	C
ATOM	189	CG	LEU	23	47.908	58.124	3.071	1.00	57.52	C
ATOM	190	CD1	LEU	23	47.893	59.002	1.811	1.00	57.52	C
ATOM	191	CD2	LEU	23	49.123	57.186	3.150	1.00	57.52	C
ATOM	192	C	LEU	23	45.416	58.516	4.577	1.00	57.52	C
ATOM	193	O	LEU	23	44.650	58.287	3.640	1.00	57.52	O
ATOM	194	N	ALA	24	45.369	57.826	5.728	1.00	38.17	N
ATOM	195	CA	ALA	24	44.497	56.699	5.865	1.00	38.17	C
ATOM	196	CB	ALA	24	44.534	56.089	7.274	1.00	38.17	C
ATOM	197	C	ALA	24	43.106	57.179	5.618	1.00	38.17	C
ATOM	198	O	ALA	24	42.304	56.499	4.979	1.00	38.17	O
ATOM	199	N	ALA	25	42.785	58.390	6.099	1.00	48.76	N
ATOM	200	CA	ALA	25	41.456	58.890	5.914	1.00	48.76	C
ATOM	201	CB	ALA	25	41.270	60.297	6.505	1.00	48.76	C
ATOM	202	C	ALA	25	41.186	58.969	4.441	1.00	48.76	C
ATOM	203	O	ALA	25	40.116	58.583	3.971	1.00	48.76	O
ATOM	204	N	ILE	26	42.182	59.424	3.663	1.00	129.54	N
ATOM	205	CA	ILE	26	41.961	59.643	2.265	1.00	129.54	C
ATOM	206	CB	ILE	26	43.226	60.085	1.587	1.00	129.54	C
ATOM	207	CG1	ILE	26	43.823	61.304	2.314	1.00	129.54	C
ATOM	208	CG2	ILE	26	42.918	60.319	0.103	1.00	129.54	C
ATOM	209	CD1	ILE	26	42.829	62.440	2.531	1.00	129.54	C
ATOM	210	C	ILE	26	41.544	58.355	1.613	1.00	129.54	C
ATOM	211	O	ILE	26	40.477	58.274	1.006	1.00	129.54	O
ATOM	212	N	ILE	27	42.328	57.281	1.803	1.00	134.05	N
ATOM	213	CA	ILE	27	42.075	56.032	1.136	1.00	134.05	C
ATOM	214	CB	ILE	27	43.068	54.963	1.486	1.00	134.05	C
ATOM	215	CG1	ILE	27	42.738	53.681	0.717	1.00	134.05	C

ATOM	216	CG2	ILE	27	43.086	54.768	3.007	1.00134.05	C
ATOM	217	CD1	ILE	27	43.822	52.617	0.844	1.00134.05	C
ATOM	218	C	ILE	27	40.725	55.511	1.519	1.00134.05	C
ATOM	219	O	ILE	27	40.014	54.937	0.697	1.00134.05	O
ATOM	220	N	HIS	28	40.357	55.686	2.794	1.00 93.59	N
ATOM	221	CA	HIS	28	39.127	55.210	3.357	1.00 93.59	C
ATOM	222	ND1	HIS	28	37.340	53.973	5.689	1.00 93.59	N
ATOM	223	CG	HIS	28	37.895	55.232	5.669	1.00 93.59	C
ATOM	224	CB	HIS	28	39.077	55.643	4.843	1.00 93.59	C
ATOM	225	NE2	HIS	28	36.207	55.190	7.168	1.00 93.59	N
ATOM	226	CD2	HIS	28	37.193	55.961	6.579	1.00 93.59	C
ATOM	227	CE1	HIS	28	36.334	54.004	6.601	1.00 93.59	C
ATOM	228	C	HIS	28	37.946	55.775	2.605	1.00 93.59	C
ATOM	229	O	HIS	28	37.054	55.029	2.191	1.00 93.59	O
ATOM	230	N	GLY	29	37.925	57.103	2.366	1.00 40.98	N
ATOM	231	CA	GLY	29	36.797	57.705	1.705	1.00 40.98	C
ATOM	232	C	GLY	29	36.691	57.108	0.356	1.00 40.98	C
ATOM	233	O	GLY	29	35.600	56.767	-0.085	1.00 40.98	O
ATOM	234	N	ALA	30	37.839	56.925	-0.312	1.00 41.17	N
ATOM	235	CA	ALA	30	37.870	56.392	-1.641	1.00 41.17	C
ATOM	236	CB	ALA	30	39.297	56.230	-2.186	1.00 41.17	C
ATOM	237	C	ALA	30	37.236	55.037	-1.601	1.00 41.17	C
ATOM	238	O	ALA	30	36.612	54.605	-2.568	1.00 41.17	O
ATOM	239	N	GLY	31	37.382	54.321	-0.473	1.00 38.16	N
ATOM	240	CA	GLY	31	36.851	52.991	-0.404	1.00 38.16	C
ATOM	241	C	GLY	31	35.368	53.013	-0.668	1.00 38.16	C
ATOM	242	O	GLY	31	34.855	52.179	-1.411	1.00 38.16	O
ATOM	243	N	LEU	32	34.634	53.988	-0.100	1.00118.42	N
ATOM	244	CA	LEU	32	33.202	53.989	-0.246	1.00118.42	C
ATOM	245	CB	LEU	32	32.513	55.171	0.466	1.00118.42	C
ATOM	246	CG	LEU	32	32.480	55.060	2.003	1.00118.42	C
ATOM	247	CD1	LEU	32	31.584	53.896	2.450	1.00118.42	C
ATOM	248	CD2	LEU	32	33.891	54.993	2.606	1.00118.42	C
ATOM	249	C	LEU	32	32.783	54.047	-1.695	1.00118.42	C
ATOM	250	O	LEU	32	31.911	53.263	-2.067	1.00118.42	O
ATOM	251	N	PRO	33	33.274	54.904	-2.559	1.00111.77	N
ATOM	252	CA	PRO	33	32.869	54.892	-3.934	1.00111.77	C
ATOM	253	CD	PRO	33	34.040	56.083	-2.258	1.00111.77	C
ATOM	254	CB	PRO	33	33.464	56.123	-4.592	1.00111.77	C
ATOM	255	CG	PRO	33	34.581	56.544	-3.624	1.00111.77	C
ATOM	256	C	PRO	33	33.356	53.720	-4.685	1.00111.77	C
ATOM	257	O	PRO	33	32.668	53.282	-5.604	1.00111.77	O
ATOM	258	N	LEU	34	34.557	53.234	-4.342	1.00133.31	N
ATOM	259	CA	LEU	34	35.092	52.164	-5.114	1.00133.31	C
ATOM	260	CB	LEU	34	36.472	51.697	-4.622	1.00133.31	C
ATOM	261	CG	LEU	34	37.186	50.749	-5.607	1.00133.31	C
ATOM	262	CD1	LEU	34	36.411	49.440	-5.821	1.00133.31	C
ATOM	263	CD2	LEU	34	37.510	51.477	-6.923	1.00133.31	C
ATOM	264	C	LEU	34	34.120	51.058	-4.921	1.00133.31	C
ATOM	265	O	LEU	34	33.751	50.360	-5.864	1.00133.31	O
ATOM	266	N	MET	35	33.617	50.949	-3.678	1.00 52.85	N
ATOM	267	CA	MET	35	32.690	49.920	-3.337	1.00 52.85	C
ATOM	268	CB	MET	35	32.193	50.005	-1.886	1.00 52.85	C
ATOM	269	CG	MET	35	31.215	48.883	-1.527	1.00 52.85	C
ATOM	270	SD	MET	35	31.975	47.235	-1.396	1.00 52.85	S
ATOM	271	CE	MET	35	32.801	47.554	0.190	1.00 52.85	C
ATOM	272	C	MET	35	31.501	50.085	-4.229	1.00 52.85	C
ATOM	273	O	MET	35	30.886	49.104	-4.640	1.00 52.85	O
ATOM	274	N	MET	36	31.121	51.339	-4.541	1.00180.54	N
ATOM	275	CA	MET	36	29.972	51.503	-5.383	1.00180.54	C
ATOM	276	CB	MET	36	29.629	52.980	-5.626	1.00180.54	C
ATOM	277	CG	MET	36	28.248	53.186	-6.246	1.00180.54	C
ATOM	278	SD	MET	36	26.869	52.830	-5.117	1.00180.54	S
ATOM	279	CE	MET	36	27.072	51.027	-5.153	1.00180.54	C
ATOM	280	C	MET	36	30.234	50.863	-6.718	1.00180.54	C
ATOM	281	O	MET	36	29.472	50.006	-7.167	1.00180.54	O
ATOM	282	N	LEU	37	31.387	51.179	-7.338	1.00117.49	N
ATOM	283	CA	LEU	37	31.663	50.745	-8.680	1.00117.49	C
ATOM	284	CB	LEU	37	33.051	51.218	-9.150	1.00117.49	C
ATOM	285	CG	LEU	37	33.305	51.110	-10.668	1.00117.49	C
ATOM	286	CD1	LEU	37	33.228	49.668	-11.190	1.00117.49	C
ATOM	287	CD2	LEU	37	32.400	52.084	-11.437	1.00117.49	C
ATOM	288	C	LEU	37	31.638	49.244	-8.748	1.00117.49	C
ATOM	289	O	LEU	37	31.043	48.670	-9.663	1.00117.49	O

ATOM	290	N	VAL	38	32.259	48.558	-7.771	1.00	96.10	N
ATOM	291	CA	VAL	38	32.319	47.122	-7.813	1.00	96.10	C
ATOM	292	CB	VAL	38	33.064	46.517	-6.662	1.00	96.10	C
ATOM	293	CG1	VAL	38	34.532	46.973	-6.729	1.00	96.10	C
ATOM	294	CG2	VAL	38	32.349	46.900	-5.358	1.00	96.10	C
ATOM	295	C	VAL	38	30.921	46.603	-7.781	1.00	96.10	C
ATOM	296	O	VAL	38	30.596	45.621	-8.445	1.00	96.10	O
ATOM	297	N	PHE	39	30.046	47.286	-7.026	1.00	105.61	N
ATOM	298	CA	PHE	39	28.673	46.893	-6.930	1.00	105.61	C
ATOM	299	CB	PHE	39	27.859	47.921	-6.117	1.00	105.61	C
ATOM	300	CG	PHE	39	26.392	47.709	-6.299	1.00	105.61	C
ATOM	301	CD1	PHE	39	25.712	46.762	-5.570	1.00	105.61	C
ATOM	302	CD2	PHE	39	25.697	48.470	-7.212	1.00	105.61	C
ATOM	303	CE1	PHE	39	24.360	46.581	-5.750	1.00	105.61	C
ATOM	304	CE2	PHE	39	24.345	48.296	-7.394	1.00	105.61	C
ATOM	305	CZ	PHE	39	23.674	47.347	-6.663	1.00	105.61	C
ATOM	306	C	PHE	39	28.155	46.849	-8.333	1.00	105.61	C
ATOM	307	O	PHE	39	27.387	45.960	-8.692	1.00	105.61	O
ATOM	308	N	GLY	40	28.556	47.818	-9.171	1.00	45.82	N
ATOM	309	CA	GLY	40	28.076	47.827	-10.523	1.00	45.82	C
ATOM	310	C	GLY	40	28.566	46.674	-11.351	1.00	45.82	C
ATOM	311	O	GLY	40	27.788	46.016	-12.035	1.00	45.82	O
ATOM	312	N	GLU	41	29.869	46.367	-11.316	1.00	48.36	N
ATOM	313	CA	GLU	41	30.368	45.347	-12.196	1.00	48.36	C
ATOM	314	CB	GLU	41	31.893	45.189	-12.092	1.00	48.36	C
ATOM	315	CG	GLU	41	32.639	46.423	-12.605	1.00	48.36	C
ATOM	316	CD	GLU	41	34.115	46.266	-12.275	1.00	48.36	C
ATOM	317	OE1	GLU	41	34.780	45.414	-12.924	1.00	48.36	O
ATOM	318	OE2	GLU	41	34.595	46.992	-11.366	1.00	48.36	O
ATOM	319	C	GLU	41	29.719	44.047	-11.848	1.00	48.36	C
ATOM	320	O	GLU	41	29.418	43.231	-12.719	1.00	48.36	O
ATOM	321	N	MET	42	29.498	43.810	-10.546	1.00	93.13	N
ATOM	322	CA	MET	42	28.867	42.585	-10.171	1.00	93.13	C
ATOM	323	CB	MET	42	28.736	42.402	-8.650	1.00	93.13	C
ATOM	324	CG	MET	42	27.692	43.323	-8.019	1.00	93.13	C
ATOM	325	SD	MET	42	27.387	43.041	-6.249	1.00	93.13	S
ATOM	326	CE	MET	42	28.963	43.742	-5.678	1.00	93.13	C
ATOM	327	C	MET	42	27.483	42.607	-10.737	1.00	93.13	C
ATOM	328	O	MET	42	26.982	41.597	-11.229	1.00	93.13	O
ATOM	329	N	THR	43	26.827	43.785	-10.688	1.00	143.93	N
ATOM	330	CA	THR	43	25.473	43.885	-11.149	1.00	143.93	C
ATOM	331	CB	THR	43	24.753	45.155	-10.749	1.00	143.93	C
ATOM	332	OG1	THR	43	25.344	46.313	-11.310	1.00	143.93	O
ATOM	333	CG2	THR	43	24.785	45.257	-9.217	1.00	143.93	C
ATOM	334	C	THR	43	25.398	43.682	-12.639	1.00	143.93	C
ATOM	335	O	THR	43	24.421	43.116	-13.127	1.00	143.93	O
ATOM	336	N	ASP	44	26.410	44.139	-13.410	1.00	64.39	N
ATOM	337	CA	ASP	44	26.368	43.977	-14.843	1.00	64.39	C
ATOM	338	CB	ASP	44	27.596	44.560	-15.572	1.00	64.39	C
ATOM	339	CG	ASP	44	27.431	46.059	-15.758	1.00	64.39	C
ATOM	340	OD1	ASP	44	26.307	46.480	-16.140	1.00	64.39	O
ATOM	341	OD2	ASP	44	28.423	46.802	-15.531	1.00	64.39	O
ATOM	342	C	ASP	44	26.344	42.524	-15.214	1.00	64.39	C
ATOM	343	O	ASP	44	25.503	42.083	-15.996	1.00	64.39	O
ATOM	344	N	ILE	45	27.245	41.724	-14.623	1.00	54.71	N
ATOM	345	CA	ILE	45	27.335	40.335	-14.976	1.00	54.71	C
ATOM	346	CB	ILE	45	28.386	39.589	-14.210	1.00	54.71	C
ATOM	347	CG1	ILE	45	29.768	40.192	-14.512	1.00	54.71	C
ATOM	348	CG2	ILE	45	28.274	38.098	-14.577	1.00	54.71	C
ATOM	349	CD1	ILE	45	30.866	39.726	-13.557	1.00	54.71	C
ATOM	350	C	ILE	45	26.002	39.739	-14.662	1.00	54.71	C
ATOM	351	O	ILE	45	25.527	38.819	-15.329	1.00	54.71	O
ATOM	352	N	PHE	46	25.376	40.281	-13.609	1.00	75.16	N
ATOM	353	CA	PHE	46	24.104	39.874	-13.092	1.00	75.16	C
ATOM	354	CB	PHE	46	23.724	40.758	-11.891	1.00	75.16	C
ATOM	355	CG	PHE	46	22.509	40.225	-11.219	1.00	75.16	C
ATOM	356	CD1	PHE	46	22.609	39.132	-10.393	1.00	75.16	C
ATOM	357	CD2	PHE	46	21.285	40.830	-11.388	1.00	75.16	C
ATOM	358	CE1	PHE	46	21.498	38.634	-9.756	1.00	75.16	C
ATOM	359	CE2	PHE	46	20.170	40.337	-10.753	1.00	75.16	C
ATOM	360	CZ	PHE	46	20.276	39.236	-9.937	1.00	75.16	C
ATOM	361	C	PHE	46	23.051	40.049	-14.156	1.00	75.16	C
ATOM	362	O	PHE	46	22.150	39.218	-14.299	1.00	75.16	O
ATOM	363	N	ALA	47	23.105	41.174	-14.895	1.00	48.01	N

ATOM	364	CA	ALA	47	22.146	41.450	-15.930	1.00	48.01	C
ATOM	365	CB	ALA	47	22.318	42.853	-16.539	1.00	48.01	C
ATOM	366	C	ALA	47	22.284	40.473	-17.060	1.00	48.01	C
ATOM	367	O	ALA	47	21.294	39.943	-17.561	1.00	48.01	O
ATOM	368	N	ASN	48	23.536	40.194	-17.470	1.00	75.23	N
ATOM	369	CA	ASN	48	23.810	39.355	-18.604	1.00	75.23	C
ATOM	370	CB	ASN	48	25.327	39.173	-18.814	1.00	75.23	C
ATOM	371	CG	ASN	48	25.598	38.402	-20.101	1.00	75.23	C
ATOM	372	OD1	ASN	48	24.897	37.451	-20.443	1.00	75.23	O
ATOM	373	ND2	ASN	48	26.661	38.824	-20.839	1.00	75.23	N
ATOM	374	C	ASN	48	23.228	38.005	-18.343	1.00	75.23	C
ATOM	375	O	ASN	48	22.571	37.418	-19.204	1.00	75.23	O
ATOM	376	N	ALA	49	23.451	37.480	-17.127	1.00	37.05	N
ATOM	377	CA	ALA	49	22.958	36.180	-16.796	1.00	37.05	C
ATOM	378	CB	ALA	49	23.351	35.743	-15.376	1.00	37.05	C
ATOM	379	C	ALA	49	21.466	36.212	-16.856	1.00	37.05	C
ATOM	380	O	ALA	49	20.835	35.277	-17.342	1.00	37.05	O
ATOM	381	N	GLY	50	20.867	37.300	-16.343	1.00	41.68	N
ATOM	382	CA	GLY	50	19.441	37.459	-16.310	1.00	41.68	C
ATOM	383	C	GLY	50	18.903	37.578	-17.706	1.00	41.68	C
ATOM	384	O	GLY	50	17.763	37.198	-17.973	1.00	41.68	O
ATOM	385	N	ASN	51	19.684	38.184	-18.621	1.00	74.23	N
ATOM	386	CA	ASN	51	19.223	38.396	-19.963	1.00	74.23	C
ATOM	387	CB	ASN	51	20.243	39.119	-20.864	1.00	74.23	C
ATOM	388	CG	ASN	51	20.342	40.582	-20.460	1.00	74.23	C
ATOM	389	OD1	ASN	51	19.409	41.153	-19.899	1.00	74.23	O
ATOM	390	ND2	ASN	51	21.507	41.212	-20.768	1.00	74.23	N
ATOM	391	C	ASN	51	18.991	37.073	-20.617	1.00	74.23	C
ATOM	392	O	ASN	51	17.963	36.855	-21.253	1.00	74.23	O
ATOM	393	N	LEU	52	19.982	36.171	-20.508	1.00	169.21	N
ATOM	394	CA	LEU	52	19.914	34.861	-21.083	1.00	169.21	C
ATOM	395	CB	LEU	52	21.281	34.152	-21.110	1.00	169.21	C
ATOM	396	CG	LEU	52	22.332	34.882	-21.974	1.00	169.21	C
ATOM	397	CD1	LEU	52	23.643	34.083	-22.058	1.00	169.21	C
ATOM	398	CD2	LEU	52	21.767	35.250	-23.355	1.00	169.21	C
ATOM	399	C	LEU	52	18.957	33.991	-20.314	1.00	169.21	C
ATOM	400	O	LEU	52	18.343	33.095	-20.890	1.00	169.21	O
ATOM	401	N	GLU	53	18.829	34.236	-18.980	1.00	199.90	N
ATOM	402	CA	GLU	53	18.132	33.470	-17.944	1.00	199.90	C
ATOM	403	CB	GLU	53	18.598	33.913	-16.557	1.00	199.90	C
ATOM	404	CG	GLU	53	18.277	32.936	-15.433	1.00	199.90	C
ATOM	405	CD	GLU	53	18.878	33.534	-14.171	1.00	199.90	C
ATOM	406	OE1	GLU	53	18.921	34.790	-14.090	1.00	199.90	O
ATOM	407	OE2	GLU	53	19.310	32.755	-13.281	1.00	199.90	O
ATOM	408	C	GLU	53	16.636	33.384	-17.712	1.00	199.90	C
ATOM	409	O	GLU	53	15.982	32.405	-18.063	1.00	199.90	O
ATOM	410	N	ASP	54	16.007	34.494	-17.290	1.00	177.32	N
ATOM	411	CA	ASP	54	14.709	34.381	-16.665	1.00	177.32	C
ATOM	412	CB	ASP	54	14.299	35.690	-15.954	1.00	177.32	C
ATOM	413	CG	ASP	54	13.346	35.433	-14.783	1.00	177.32	C
ATOM	414	OD1	ASP	54	12.840	34.292	-14.620	1.00	177.32	O
ATOM	415	OD2	ASP	54	13.126	36.406	-14.012	1.00	177.32	O
ATOM	416	C	ASP	54	13.637	33.988	-17.638	1.00	177.32	C
ATOM	417	O	ASP	54	13.890	33.628	-18.784	1.00	177.32	O
ATOM	418	N	LEU	55	12.379	33.972	-17.165	1.00	104.86	N
ATOM	419	CA	LEU	55	11.284	33.678	-18.033	1.00	104.86	C
ATOM	420	CB	LEU	55	9.940	33.822	-17.287	1.00	104.86	C
ATOM	421	CG	LEU	55	8.650	33.510	-18.077	1.00	104.86	C
ATOM	422	CD1	LEU	55	7.418	33.703	-17.180	1.00	104.86	C
ATOM	423	CD2	LEU	55	8.531	34.317	-19.381	1.00	104.86	C
ATOM	424	C	LEU	55	11.412	34.776	-19.024	1.00	104.86	C
ATOM	425	O	LEU	55	11.237	34.601	-20.229	1.00	104.86	O
ATOM	426	N	MET	56	11.773	35.946	-18.484	1.00	75.43	N
ATOM	427	CA	MET	56	12.004	37.121	-19.245	1.00	75.43	C
ATOM	428	CB	MET	56	12.253	38.347	-18.348	1.00	75.43	C
ATOM	429	CG	MET	56	10.991	38.712	-17.557	1.00	75.43	C
ATOM	430	SD	MET	56	11.160	40.038	-16.327	1.00	75.43	S
ATOM	431	CE	MET	56	9.450	39.900	-15.735	1.00	75.43	C
ATOM	432	C	MET	56	13.188	36.867	-20.120	1.00	75.43	C
ATOM	433	O	MET	56	13.239	37.358	-21.246	1.00	75.43	O
ATOM	434	N	SER	57	14.178	36.073	-19.656	1.00	209.26	N
ATOM	435	CA	SER	57	15.277	35.944	-20.543	1.00	209.26	C
ATOM	436	CB	SER	57	16.315	35.049	-20.041	1.00	209.26	C
ATOM	437	OG	SER	57	15.921	33.713	-20.333	1.00	209.26	O

ATOM	438	C	SER	57	14.862	35.162	-21.741	1.00209.26	C
ATOM	439	O	SER	57	13.710	34.755	-21.882	1.00209.26	O
ATOM	440	N	ASN	58	15.838	34.937	-22.651	1.00 92.04	N
ATOM	441	CA	ASN	58	15.529	34.105	-23.764	1.00 92.04	C
ATOM	442	CB	ASN	58	16.700	33.901	-24.738	1.00 92.04	C
ATOM	443	CG	ASN	58	16.141	33.207	-25.975	1.00 92.04	C
ATOM	444	OD1	ASN	58	14.979	32.803	-26.004	1.00 92.04	O
ATOM	445	ND2	ASN	58	16.990	33.056	-27.027	1.00 92.04	N
ATOM	446	C	ASN	58	15.112	32.753	-23.263	1.00 92.04	C
ATOM	447	O	ASN	58	13.972	32.367	-23.517	1.00 92.04	O
ATOM	448	N	ILE	59	15.979	32.037	-22.487	1.00202.11	N
ATOM	449	CA	ILE	59	15.666	30.722	-21.956	1.00202.11	C
ATOM	450	CB	ILE	59	14.826	30.760	-20.706	1.00202.11	C
ATOM	451	CG1	ILE	59	14.895	29.420	-19.947	1.00202.11	C
ATOM	452	CG2	ILE	59	13.403	31.184	-21.104	1.00202.11	C
ATOM	453	CD1	ILE	59	14.289	29.479	-18.546	1.00202.11	C
ATOM	454	C	ILE	59	14.974	29.895	-23.016	1.00202.11	C
ATOM	455	O	ILE	59	15.069	30.192	-24.206	1.00202.11	O
ATOM	456	N	THR	60	14.398	28.739	-22.633	1.00153.03	N
ATOM	457	CA	THR	60	13.615	27.929	-23.528	1.00153.03	C
ATOM	458	CB	THR	60	12.332	28.577	-23.972	1.00153.03	C
ATOM	459	OG1	THR	60	12.587	29.752	-24.726	1.00153.03	O
ATOM	460	CG2	THR	60	11.514	28.923	-22.718	1.00153.03	C
ATOM	461	C	THR	60	14.440	27.570	-24.717	1.00153.03	C
ATOM	462	O	THR	60	13.922	27.402	-25.821	1.00153.03	O
ATOM	463	N	ASN	61	15.759	27.426	-24.488	1.00 90.83	N
ATOM	464	CA	ASN	61	16.710	27.038	-25.488	1.00 90.83	C
ATOM	465	CB	ASN	61	17.594	28.189	-25.999	1.00 90.83	C
ATOM	466	CG	ASN	61	16.733	29.116	-26.850	1.00 90.83	C
ATOM	467	OD1	ASN	61	15.511	29.155	-26.720	1.00 90.83	O
ATOM	468	ND2	ASN	61	17.387	29.884	-27.760	1.00 90.83	N
ATOM	469	C	ASN	61	17.607	26.045	-24.816	1.00 90.83	C
ATOM	470	O	ASN	61	17.220	25.462	-23.804	1.00 90.83	O
ATOM	471	N	ARG	62	18.826	25.822	-25.355	1.00243.51	N
ATOM	472	CA	ARG	62	19.691	24.832	-24.765	1.00243.51	C
ATOM	473	CB	ARG	62	21.087	24.711	-25.409	1.00243.51	C
ATOM	474	CG	ARG	62	21.197	23.578	-26.431	1.00243.51	C
ATOM	475	CD	ARG	62	20.185	23.639	-27.574	1.00243.51	C
ATOM	476	NE	ARG	62	20.809	24.398	-28.689	1.00243.51	N
ATOM	477	CZ	ARG	62	20.895	23.827	-29.926	1.00243.51	C
ATOM	478	NH1	ARG	62	20.461	22.549	-30.122	1.00243.51	N
ATOM	479	NH2	ARG	62	21.425	24.535	-30.966	1.00243.51	N
ATOM	480	C	ARG	62	19.884	25.098	-23.311	1.00243.51	C
ATOM	481	O	ARG	62	20.451	26.107	-22.894	1.00243.51	O
ATOM	482	N	SER	63	19.397	24.133	-22.510	1.00 88.38	N
ATOM	483	CA	SER	63	19.433	24.149	-21.080	1.00 88.38	C
ATOM	484	CB	SER	63	18.715	22.926	-20.486	1.00 88.38	C
ATOM	485	OG	SER	63	17.344	22.934	-20.852	1.00 88.38	O
ATOM	486	C	SER	63	20.855	24.061	-20.621	1.00 88.38	C
ATOM	487	O	SER	63	21.276	24.775	-19.713	1.00 88.38	O
ATOM	488	N	ASP	64	21.640	23.188	-21.275	1.00 47.28	N
ATOM	489	CA	ASP	64	22.988	22.902	-20.873	1.00 47.28	C
ATOM	490	CB	ASP	64	23.687	21.919	-21.829	1.00 47.28	C
ATOM	491	CG	ASP	64	23.012	20.561	-21.734	1.00 47.28	C
ATOM	492	OD1	ASP	64	22.423	20.259	-20.662	1.00 47.28	O
ATOM	493	OD2	ASP	64	23.084	19.800	-22.737	1.00 47.28	O
ATOM	494	C	ASP	64	23.804	24.151	-20.926	1.00 47.28	C
ATOM	495	O	ASP	64	24.588	24.428	-20.019	1.00 47.28	O
ATOM	496	N	ILE	65	23.630	24.944	-21.994	1.00 97.69	N
ATOM	497	CA	ILE	65	24.425	26.120	-22.181	1.00 97.69	C
ATOM	498	CB	ILE	65	24.171	26.834	-23.484	1.00 97.69	C
ATOM	499	CG1	ILE	65	25.300	27.844	-23.766	1.00 97.69	C
ATOM	500	CG2	ILE	65	22.772	27.468	-23.431	1.00 97.69	C
ATOM	501	CD1	ILE	65	25.311	28.380	-25.199	1.00 97.69	C
ATOM	502	C	ILE	65	24.143	27.059	-21.060	1.00 97.69	C
ATOM	503	O	ILE	65	25.010	27.835	-20.668	1.00 97.69	O
ATOM	504	N	ASN	66	22.892	27.076	-20.572	1.00 74.30	N
ATOM	505	CA	ASN	66	22.517	27.943	-19.493	1.00 74.30	C
ATOM	506	CB	ASN	66	20.994	28.029	-19.318	1.00 74.30	C
ATOM	507	CG	ASN	66	20.466	28.735	-20.562	1.00 74.30	C
ATOM	508	OD1	ASN	66	19.600	28.216	-21.265	1.00 74.30	O
ATOM	509	ND2	ASN	66	21.007	29.949	-20.851	1.00 74.30	N
ATOM	510	C	ASN	66	23.154	27.501	-18.209	1.00 74.30	C
ATOM	511	O	ASN	66	23.532	28.332	-17.383	1.00 74.30	O

ATOM	512	N	ASP	67	23.265	26.176	-17.991	1.00	48.45	N
ATOM	513	CA	ASP	67	23.877	25.683	-16.791	1.00	48.45	C
ATOM	514	CB	ASP	67	23.879	24.147	-16.726	1.00	48.45	C
ATOM	515	CG	ASP	67	22.459	23.684	-16.431	1.00	48.45	C
ATOM	516	OD1	ASP	67	21.670	23.520	-17.401	1.00	48.45	O
ATOM	517	OD2	ASP	67	22.141	23.503	-15.226	1.00	48.45	O
ATOM	518	C	ASP	67	25.301	26.132	-16.807	1.00	48.45	C
ATOM	519	O	ASP	67	25.847	26.553	-15.789	1.00	48.45	O
ATOM	520	N	THR	68	25.941	26.026	-17.983	1.00	37.50	N
ATOM	521	CA	THR	68	27.319	26.392	-18.133	1.00	37.50	C
ATOM	522	CB	THR	68	27.876	26.008	-19.474	1.00	37.50	C
ATOM	523	OG1	THR	68	27.745	24.609	-19.679	1.00	37.50	O
ATOM	524	CG2	THR	68	29.363	26.404	-19.517	1.00	37.50	C
ATOM	525	C	THR	68	27.498	27.872	-17.995	1.00	37.50	C
ATOM	526	O	THR	68	28.358	28.330	-17.246	1.00	37.50	O
ATOM	527	N	GLY	69	26.669	28.667	-18.699	1.00	27.90	N
ATOM	528	CA	GLY	69	26.852	30.090	-18.693	1.00	27.90	C
ATOM	529	C	GLY	69	26.657	30.594	-17.300	1.00	27.90	C
ATOM	530	O	GLY	69	27.384	31.475	-16.841	1.00	27.90	O
ATOM	531	N	PHE	70	25.633	30.060	-16.610	1.00	137.08	N
ATOM	532	CA	PHE	70	25.285	30.485	-15.285	1.00	137.08	C
ATOM	533	CB	PHE	70	23.947	29.930	-14.792	1.00	137.08	C
ATOM	534	CG	PHE	70	22.993	30.919	-15.320	1.00	137.08	C
ATOM	535	CD1	PHE	70	22.817	32.088	-14.619	1.00	137.08	C
ATOM	536	CD2	PHE	70	22.311	30.695	-16.490	1.00	137.08	C
ATOM	537	CE1	PHE	70	21.954	33.043	-15.078	1.00	137.08	C
ATOM	538	CE2	PHE	70	21.444	31.647	-16.957	1.00	137.08	C
ATOM	539	CZ	PHE	70	21.279	32.807	-16.245	1.00	137.08	C
ATOM	540	C	PHE	70	26.295	30.168	-14.247	1.00	137.08	C
ATOM	541	O	PHE	70	26.728	31.063	-13.525	1.00	137.08	O
ATOM	542	N	PHE	71	26.729	28.903	-14.155	1.00	141.66	N
ATOM	543	CA	PHE	71	27.648	28.579	-13.109	1.00	141.66	C
ATOM	544	CB	PHE	71	28.057	27.101	-13.030	1.00	141.66	C
ATOM	545	CG	PHE	71	28.711	26.996	-11.697	1.00	141.66	C
ATOM	546	CD1	PHE	71	30.052	27.252	-11.539	1.00	141.66	C
ATOM	547	CD2	PHE	71	27.961	26.667	-10.593	1.00	141.66	C
ATOM	548	CE1	PHE	71	30.638	27.166	-10.300	1.00	141.66	C
ATOM	549	CE2	PHE	71	28.543	26.579	-9.352	1.00	141.66	C
ATOM	550	CZ	PHE	71	29.885	26.826	-9.203	1.00	141.66	C
ATOM	551	C	PHE	71	28.866	29.380	-13.397	1.00	141.66	C
ATOM	552	O	PHE	71	29.600	29.780	-12.497	1.00	141.66	O
ATOM	553	N	MET	72	29.101	29.634	-14.693	1.00	99.87	N
ATOM	554	CA	MET	72	30.276	30.345	-15.087	1.00	99.87	C
ATOM	555	CB	MET	72	30.294	30.513	-16.621	1.00	99.87	C
ATOM	556	CG	MET	72	31.612	30.931	-17.281	1.00	99.87	C
ATOM	557	SD	MET	72	31.963	32.715	-17.317	1.00	99.87	S
ATOM	558	CE	MET	72	32.789	32.792	-15.702	1.00	99.87	C
ATOM	559	C	MET	72	30.301	31.696	-14.424	1.00	99.87	C
ATOM	560	O	MET	72	31.197	31.978	-13.632	1.00	99.87	O
ATOM	561	N	ASN	73	29.273	32.540	-14.640	1.00	65.06	N
ATOM	562	CA	ASN	73	29.281	33.856	-14.061	1.00	65.06	C
ATOM	563	CB	ASN	73	28.253	34.811	-14.687	1.00	65.06	C
ATOM	564	CG	ASN	73	28.843	35.238	-16.025	1.00	65.06	C
ATOM	565	OD1	ASN	73	30.042	35.490	-16.132	1.00	65.06	O
ATOM	566	ND2	ASN	73	27.987	35.317	-17.079	1.00	65.06	N
ATOM	567	C	ASN	73	29.077	33.758	-12.584	1.00	65.06	C
ATOM	568	O	ASN	73	29.510	34.626	-11.828	1.00	65.06	O
ATOM	569	N	LEU	74	28.377	32.700	-12.138	1.00	149.93	N
ATOM	570	CA	LEU	74	28.105	32.497	-10.742	1.00	149.93	C
ATOM	571	CB	LEU	74	27.452	31.114	-10.554	1.00	149.93	C
ATOM	572	CG	LEU	74	27.072	30.682	-9.123	1.00	149.93	C
ATOM	573	CD1	LEU	74	28.291	30.338	-8.257	1.00	149.93	C
ATOM	574	CD2	LEU	74	26.161	31.719	-8.465	1.00	149.93	C
ATOM	575	C	LEU	74	29.400	32.426	-10.005	1.00	149.93	C
ATOM	576	O	LEU	74	29.728	33.285	-9.191	1.00	149.93	O
ATOM	577	N	GLU	75	30.214	31.414	-10.332	1.00	58.02	N
ATOM	578	CA	GLU	75	31.440	31.231	-9.620	1.00	58.02	C
ATOM	579	CB	GLU	75	32.220	29.991	-10.081	1.00	58.02	C
ATOM	580	CG	GLU	75	32.711	30.100	-11.526	1.00	58.02	C
ATOM	581	CD	GLU	75	33.468	28.829	-11.883	1.00	58.02	C
ATOM	582	OE1	GLU	75	33.364	27.838	-11.114	1.00	58.02	O
ATOM	583	OE2	GLU	75	34.160	28.834	-12.936	1.00	58.02	O
ATOM	584	C	GLU	75	32.306	32.402	-9.926	1.00	58.02	C
ATOM	585	O	GLU	75	33.022	32.905	-9.063	1.00	58.02	O

ATOM	586	N	GLU	76	32.231	32.871	-11.182	1.00127.55	N
ATOM	587	CA	GLU	76	33.080	33.918	-11.663	1.00127.55	C
ATOM	588	CB	GLU	76	32.603	34.391	-13.046	1.00127.55	C
ATOM	589	CG	GLU	76	33.072	35.802	-13.396	1.00127.55	C
ATOM	590	CD	GLU	76	34.552	35.680	-13.624	1.00127.55	C
ATOM	591	OE1	GLU	76	34.985	34.508	-13.769	1.00127.55	O
ATOM	592	OE2	GLU	76	35.266	36.716	-13.651	1.00127.55	O
ATOM	593	C	GLU	76	32.980	35.128	-10.800	1.00127.55	C
ATOM	594	O	GLU	76	33.950	35.535	-10.165	1.00127.55	O
ATOM	595	N	ASP	77	31.781	35.719	-10.720	1.00130.30	N
ATOM	596	CA	ASP	77	31.663	36.921	-9.959	1.00130.30	C
ATOM	597	CB	ASP	77	30.379	37.739	-10.214	1.00130.30	C
ATOM	598	CG	ASP	77	29.157	36.963	-9.761	1.00130.30	C
ATOM	599	OD1	ASP	77	29.314	35.764	-9.417	1.00130.30	O
ATOM	600	OD2	ASP	77	28.046	37.551	-9.755	1.00130.30	O
ATOM	601	C	ASP	77	31.781	36.572	-8.521	1.00130.30	C
ATOM	602	O	ASP	77	32.021	37.442	-7.692	1.00130.30	O
ATOM	603	N	MET	78	31.555	35.297	-8.163	1.00112.89	N
ATOM	604	CA	MET	78	31.676	34.943	-6.782	1.00112.89	C
ATOM	605	CB	MET	78	31.215	33.518	-6.444	1.00112.89	C
ATOM	606	CG	MET	78	29.690	33.427	-6.407	1.00112.89	C
ATOM	607	SD	MET	78	29.026	31.939	-5.608	1.00112.89	S
ATOM	608	CE	MET	78	27.368	32.654	-5.400	1.00112.89	C
ATOM	609	C	MET	78	33.091	35.138	-6.368	1.00112.89	C
ATOM	610	O	MET	78	33.354	35.532	-5.234	1.00112.89	O
ATOM	611	N	THR	79	34.054	34.842	-7.261	1.00114.01	N
ATOM	612	CA	THR	79	35.403	35.116	-6.873	1.00114.01	C
ATOM	613	CB	THR	79	36.446	34.675	-7.861	1.00114.01	C
ATOM	614	OG1	THR	79	36.288	35.336	-9.106	1.00114.01	O
ATOM	615	CG2	THR	79	36.337	33.156	-8.041	1.00114.01	C
ATOM	616	C	THR	79	35.506	36.597	-6.729	1.00114.01	C
ATOM	617	O	THR	79	36.068	37.103	-5.762	1.00114.01	O
ATOM	618	N	ARG	80	34.891	37.333	-7.672	1.00152.15	N
ATOM	619	CA	ARG	80	34.974	38.762	-7.688	1.00152.15	C
ATOM	620	CB	ARG	80	34.144	39.391	-8.821	1.00152.15	C
ATOM	621	CG	ARG	80	34.067	40.917	-8.740	1.00152.15	C
ATOM	622	CD	ARG	80	33.425	41.568	-9.967	1.00152.15	C
ATOM	623	NE	ARG	80	34.435	41.530	-11.062	1.00152.15	N
ATOM	624	CZ	ARG	80	34.558	40.421	-11.849	1.00152.15	C
ATOM	625	NH1	ARG	80	33.729	39.355	-11.663	1.00152.15	N
ATOM	626	NH2	ARG	80	35.518	40.380	-12.818	1.00152.15	N
ATOM	627	C	ARG	80	34.445	39.305	-6.398	1.00152.15	C
ATOM	628	O	ARG	80	35.012	40.242	-5.840	1.00152.15	O
ATOM	629	N	TYR	81	33.343	38.736	-5.881	1.00 66.77	N
ATOM	630	CA	TYR	81	32.770	39.237	-4.671	1.00 66.77	C
ATOM	631	CB	TYR	81	31.520	38.479	-4.180	1.00 66.77	C
ATOM	632	CG	TYR	81	30.379	38.604	-5.134	1.00 66.77	C
ATOM	633	CD1	TYR	81	29.763	39.815	-5.358	1.00 66.77	C
ATOM	634	CD2	TYR	81	29.891	37.487	-5.775	1.00 66.77	C
ATOM	635	CE1	TYR	81	28.700	39.913	-6.226	1.00 66.77	C
ATOM	636	CE2	TYR	81	28.827	37.578	-6.642	1.00 66.77	C
ATOM	637	CZ	TYR	81	28.232	38.795	-6.871	1.00 66.77	C
ATOM	638	OH	TYR	81	27.138	38.900	-7.757	1.00 66.77	O
ATOM	639	C	TYR	81	33.781	39.060	-3.586	1.00 66.77	C
ATOM	640	O	TYR	81	34.059	39.983	-2.824	1.00 66.77	O
ATOM	641	N	ALA	82	34.401	37.868	-3.523	1.00 40.15	N
ATOM	642	CA	ALA	82	35.286	37.582	-2.434	1.00 40.15	C
ATOM	643	CB	ALA	82	35.914	36.181	-2.536	1.00 40.15	C
ATOM	644	C	ALA	82	36.392	38.581	-2.433	1.00 40.15	C
ATOM	645	O	ALA	82	36.723	39.154	-1.397	1.00 40.15	O
ATOM	646	N	TYR	83	36.963	38.855	-3.612	1.00123.51	N
ATOM	647	CA	TYR	83	38.057	39.765	-3.672	1.00123.51	C
ATOM	648	CB	TYR	83	38.707	39.849	-5.065	1.00123.51	C
ATOM	649	CG	TYR	83	39.248	38.487	-5.348	1.00123.51	C
ATOM	650	CD1	TYR	83	40.301	38.002	-4.610	1.00123.51	C
ATOM	651	CD2	TYR	83	38.684	37.675	-6.306	1.00123.51	C
ATOM	652	CE1	TYR	83	40.809	36.747	-4.843	1.00123.51	C
ATOM	653	CE2	TYR	83	39.187	36.417	-6.547	1.00123.51	C
ATOM	654	CZ	TYR	83	40.253	35.953	-5.816	1.00123.51	C
ATOM	655	OH	TYR	83	40.771	34.663	-6.058	1.00123.51	O
ATOM	656	C	TYR	83	37.583	41.124	-3.259	1.00123.51	C
ATOM	657	O	TYR	83	38.339	41.869	-2.643	1.00123.51	O
ATOM	658	N	TYR	84	36.341	41.516	-3.621	1.00103.97	N
ATOM	659	CA	TYR	84	35.936	42.861	-3.305	1.00103.97	C

ATOM	660	CB	TYR	84	34.716	43.409	-4.086	1.00103.97	C
ATOM	661	CG	TYR	84	33.387	43.123	-3.470	1.00103.97	C
ATOM	662	CD1	TYR	84	32.885	43.957	-2.496	1.00103.97	C
ATOM	663	CD2	TYR	84	32.618	42.064	-3.884	1.00103.97	C
ATOM	664	CE1	TYR	84	31.653	43.725	-1.929	1.00103.97	C
ATOM	665	CE2	TYR	84	31.384	41.823	-3.324	1.00103.97	C
ATOM	666	CZ	TYR	84	30.899	42.652	-2.342	1.00103.97	C
ATOM	667	OH	TYR	84	29.635	42.410	-1.765	1.00103.97	O
ATOM	668	C	TYR	84	35.729	43.077	-1.833	1.00103.97	C
ATOM	669	O	TYR	84	36.213	44.066	-1.288	1.00103.97	O
ATOM	670	N	TYR	85	35.029	42.168	-1.123	1.00150.23	N
ATOM	671	CA	TYR	85	34.833	42.432	0.273	1.00150.23	C
ATOM	672	CB	TYR	85	33.961	41.420	1.034	1.00150.23	C
ATOM	673	CG	TYR	85	34.684	40.137	1.253	1.00150.23	C
ATOM	674	CD1	TYR	85	35.453	39.966	2.382	1.00150.23	C
ATOM	675	CD2	TYR	85	34.587	39.105	0.349	1.00150.23	C
ATOM	676	CE1	TYR	85	36.126	38.790	2.603	1.00150.23	C
ATOM	677	CE2	TYR	85	35.257	37.924	0.567	1.00150.23	C
ATOM	678	CZ	TYR	85	36.028	37.766	1.693	1.00150.23	C
ATOM	679	OH	TYR	85	36.716	36.555	1.915	1.00150.23	O
ATOM	680	C	TYR	85	36.181	42.400	0.892	1.00150.23	C
ATOM	681	O	TYR	85	36.458	43.125	1.840	1.00150.23	O
ATOM	682	N	SER	86	37.050	41.510	0.389	1.00 59.93	N
ATOM	683	CA	SER	86	38.362	41.393	0.942	1.00 59.93	C
ATOM	684	CB	SER	86	39.231	40.362	0.206	1.00 59.93	C
ATOM	685	OG	SER	86	38.660	39.068	0.326	1.00 59.93	O
ATOM	686	C	SER	86	39.077	42.700	0.849	1.00 59.93	C
ATOM	687	O	SER	86	39.275	43.365	1.864	1.00 59.93	O
ATOM	688	N	GLY	87	39.394	43.145	-0.385	1.00 38.19	N
ATOM	689	CA	GLY	87	40.249	44.286	-0.558	1.00 38.19	C
ATOM	690	C	GLY	87	39.679	45.467	0.158	1.00 38.19	C
ATOM	691	O	GLY	87	40.400	46.160	0.872	1.00 38.19	O
ATOM	692	N	ILE	88	38.371	45.737	-0.005	1.00100.81	N
ATOM	693	CA	ILE	88	37.829	46.874	0.682	1.00100.81	C
ATOM	694	CB	ILE	88	36.416	47.198	0.280	1.00100.81	C
ATOM	695	CG1	ILE	88	36.353	47.678	-1.180	1.00100.81	C
ATOM	696	CG2	ILE	88	35.870	48.241	1.271	1.00100.81	C
ATOM	697	CD1	ILE	88	36.688	46.607	-2.215	1.00100.81	C
ATOM	698	C	ILE	88	37.806	46.625	2.158	1.00100.81	C
ATOM	699	O	ILE	88	38.384	47.375	2.939	1.00100.81	O
ATOM	700	N	GLY	89	37.213	45.496	2.572	1.00 43.71	N
ATOM	701	CA	GLY	89	36.964	45.256	3.960	1.00 43.71	C
ATOM	702	C	GLY	89	38.222	45.256	4.751	1.00 43.71	C
ATOM	703	O	GLY	89	38.319	45.955	5.760	1.00 43.71	O
ATOM	704	N	ALA	90	39.233	44.496	4.303	1.00 35.98	N
ATOM	705	CA	ALA	90	40.454	44.465	5.045	1.00 35.98	C
ATOM	706	CB	ALA	90	41.532	43.589	4.386	1.00 35.98	C
ATOM	707	C	ALA	90	40.944	45.865	5.022	1.00 35.98	C
ATOM	708	O	ALA	90	41.414	46.395	6.029	1.00 35.98	O
ATOM	709	N	GLY	91	40.768	46.522	3.863	1.00 48.28	N
ATOM	710	CA	GLY	91	41.297	47.837	3.726	1.00 48.28	C
ATOM	711	C	GLY	91	40.726	48.743	4.777	1.00 48.28	C
ATOM	712	O	GLY	91	41.476	49.352	5.533	1.00 48.28	O
ATOM	713	N	VAL	92	39.391	48.810	4.915	1.00 64.24	N
ATOM	714	CA	VAL	92	38.822	49.758	5.833	1.00 64.24	C
ATOM	715	CB	VAL	92	37.316	49.742	5.838	1.00 64.24	C
ATOM	716	CG1	VAL	92	36.825	50.113	4.428	1.00 64.24	C
ATOM	717	CG2	VAL	92	36.808	48.377	6.332	1.00 64.24	C
ATOM	718	C	VAL	92	39.300	49.479	7.222	1.00 64.24	C
ATOM	719	O	VAL	92	39.755	50.395	7.901	1.00 64.24	O
ATOM	720	N	LEU	93	39.291	48.204	7.661	1.00 56.33	N
ATOM	721	CA	LEU	93	39.606	47.897	9.026	1.00 56.33	C
ATOM	722	CB	LEU	93	39.600	46.379	9.283	1.00 56.33	C
ATOM	723	CG	LEU	93	39.919	45.979	10.733	1.00 56.33	C
ATOM	724	CD1	LEU	93	38.830	46.479	11.698	1.00 56.33	C
ATOM	725	CD2	LEU	93	40.162	44.467	10.850	1.00 56.33	C
ATOM	726	C	LEU	93	40.973	48.425	9.345	1.00 56.33	C
ATOM	727	O	LEU	93	41.161	49.104	10.353	1.00 56.33	O
ATOM	728	N	VAL	94	41.966	48.172	8.471	1.00105.73	N
ATOM	729	CA	VAL	94	43.291	48.633	8.779	1.00105.73	C
ATOM	730	CB	VAL	94	44.323	48.148	7.799	1.00105.73	C
ATOM	731	CG1	VAL	94	44.385	46.613	7.886	1.00105.73	C
ATOM	732	CG2	VAL	94	43.989	48.663	6.389	1.00105.73	C
ATOM	733	C	VAL	94	43.336	50.140	8.823	1.00105.73	C

ATOM	734	O	VAL	94	43.828	50.719	9.790	1.00105.73	O
ATOM	735	N	ALA	95	42.809	50.811	7.778	1.00 57.48	N
ATOM	736	CA	ALA	95	42.871	52.241	7.624	1.00 57.48	C
ATOM	737	CB	ALA	95	42.407	52.699	6.229	1.00 57.48	C
ATOM	738	C	ALA	95	42.060	52.990	8.640	1.00 57.48	C
ATOM	739	O	ALA	95	42.463	54.066	9.080	1.00 57.48	O
ATOM	740	N	ALA	96	40.866	52.478	8.997	1.00 49.21	N
ATOM	741	CA	ALA	96	40.015	53.178	9.918	1.00 49.21	C
ATOM	742	CB	ALA	96	38.682	52.454	10.176	1.00 49.21	C
ATOM	743	C	ALA	96	40.737	53.269	11.217	1.00 49.21	C
ATOM	744	O	ALA	96	40.895	54.354	11.776	1.00 49.21	O
ATOM	745	N	TYR	97	41.295	52.130	11.661	1.00 62.95	N
ATOM	746	CA	TYR	97	41.973	52.066	12.918	1.00 62.95	C
ATOM	747	CB	TYR	97	42.598	50.690	13.204	1.00 62.95	C
ATOM	748	CG	TYR	97	43.458	50.847	14.410	1.00 62.95	C
ATOM	749	CD1	TYR	97	42.923	50.841	15.679	1.00 62.95	C
ATOM	750	CD2	TYR	97	44.816	51.004	14.260	1.00 62.95	C
ATOM	751	CE1	TYR	97	43.738	50.991	16.778	1.00 62.95	C
ATOM	752	CE2	TYR	97	45.633	51.153	15.353	1.00 62.95	C
ATOM	753	CZ	TYR	97	45.094	51.149	16.616	1.00 62.95	C
ATOM	754	OH	TYR	97	45.934	51.305	17.739	1.00 62.95	O
ATOM	755	C	TYR	97	43.068	53.074	12.867	1.00 62.95	C
ATOM	756	O	TYR	97	43.395	53.703	13.872	1.00 62.95	O
ATOM	757	N	ILE	98	43.683	53.234	11.683	1.00105.40	N
ATOM	758	CA	ILE	98	44.759	54.167	11.525	1.00105.40	C
ATOM	759	CB	ILE	98	45.341	54.107	10.144	1.00105.40	C
ATOM	760	CG1	ILE	98	45.895	52.699	9.872	1.00105.40	C
ATOM	761	CG2	ILE	98	46.394	55.220	10.015	1.00105.40	C
ATOM	762	CD1	ILE	98	46.980	52.280	10.864	1.00105.40	C
ATOM	763	C	ILE	98	44.278	55.578	11.757	1.00105.40	C
ATOM	764	O	ILE	98	44.868	56.314	12.542	1.00105.40	O
ATOM	765	N	GLN	99	43.154	55.973	11.129	1.00162.71	N
ATOM	766	CA	GLN	99	42.616	57.308	11.212	1.00162.71	C
ATOM	767	CB	GLN	99	41.275	57.381	10.455	1.00162.71	C
ATOM	768	CG	GLN	99	40.479	58.671	10.649	1.00162.71	C
ATOM	769	CD	GLN	99	39.175	58.562	9.861	1.00162.71	C
ATOM	770	OE1	GLN	99	38.925	57.580	9.161	1.00162.71	O
ATOM	771	NE2	GLN	99	38.315	59.607	9.982	1.00162.71	N
ATOM	772	C	GLN	99	42.320	57.655	12.644	1.00162.71	C
ATOM	773	O	GLN	99	42.458	58.800	13.061	1.00162.71	O
ATOM	774	N	VAL	100	41.833	56.688	13.431	1.00 74.40	N
ATOM	775	CA	VAL	100	41.518	56.926	14.813	1.00 74.40	C
ATOM	776	CB	VAL	100	40.793	55.767	15.431	1.00 74.40	C
ATOM	777	CG1	VAL	100	40.488	56.091	16.905	1.00 74.40	C
ATOM	778	CG2	VAL	100	39.555	55.453	14.571	1.00 74.40	C
ATOM	779	C	VAL	100	42.784	57.134	15.594	1.00 74.40	C
ATOM	780	O	VAL	100	42.824	57.918	16.544	1.00 74.40	O
ATOM	781	N	SER	101	43.855	56.405	15.231	1.00 46.42	N
ATOM	782	CA	SER	101	45.107	56.519	15.925	1.00 46.42	C
ATOM	783	CB	SER	101	46.184	55.580	15.359	1.00 46.42	C
ATOM	784	OG	SER	101	45.772	54.231	15.515	1.00 46.42	O
ATOM	785	C	SER	101	45.572	57.921	15.719	1.00 46.42	C
ATOM	786	O	SER	101	46.325	58.475	16.520	1.00 46.42	O
ATOM	787	N	PHE	102	45.131	58.517	14.600	1.00183.92	N
ATOM	788	CA	PHE	102	45.434	59.876	14.276	1.00183.92	C
ATOM	789	CB	PHE	102	44.732	60.285	12.963	1.00183.92	C
ATOM	790	CG	PHE	102	44.934	61.702	12.537	1.00183.92	C
ATOM	791	CD1	PHE	102	44.510	62.748	13.322	1.00183.92	C
ATOM	792	CD2	PHE	102	45.547	61.988	11.343	1.00183.92	C
ATOM	793	CE1	PHE	102	44.679	64.053	12.944	1.00183.92	C
ATOM	794	CE2	PHE	102	45.720	63.295	10.952	1.00183.92	C
ATOM	795	CZ	PHE	102	45.283	64.326	11.745	1.00183.92	C
ATOM	796	C	PHE	102	44.839	60.690	15.373	1.00183.92	C
ATOM	797	O	PHE	102	45.546	61.442	16.044	1.00183.92	O
ATOM	798	N	TRP	103	43.532	60.471	15.637	1.00138.78	N
ATOM	799	CA	TRP	103	42.816	61.316	16.547	1.00138.78	C
ATOM	800	CB	TRP	103	41.394	60.787	16.867	1.00138.78	C
ATOM	801	CG	TRP	103	40.603	61.490	17.970	1.00138.78	C
ATOM	802	CD2	TRP	103	39.189	61.724	17.897	1.00138.78	C
ATOM	803	CD1	TRP	103	41.006	62.008	19.172	1.00138.78	C
ATOM	804	NE1	TRP	103	39.940	62.543	19.844	1.00138.78	N
ATOM	805	CE2	TRP	103	38.812	62.381	19.072	1.00138.78	C
ATOM	806	CE3	TRP	103	38.273	61.421	16.931	1.00138.78	C
ATOM	807	CZ2	TRP	103	37.515	62.740	19.297	1.00138.78	C

ATOM	808	CZ3	TRP	103	36.965	61.787	17.161	1.00138.78	C
ATOM	809	CH2	TRP	103	36.594	62.435	18.321	1.00138.78	C
ATOM	810	C	TRP	103	43.535	61.446	17.849	1.00138.78	C
ATOM	811	O	TRP	103	44.115	62.492	18.130	1.00138.78	O
ATOM	812	N	CYS	104	43.576	60.374	18.646	1.00 99.15	N
ATOM	813	CA	CYS	104	44.076	60.530	19.974	1.00 99.15	C
ATOM	814	CB	CYS	104	43.709	59.358	20.888	1.00 99.15	C
ATOM	815	SG	CYS	104	41.914	59.187	21.116	1.00 99.15	S
ATOM	816	C	CYS	104	45.537	60.754	20.067	1.00 99.15	C
ATOM	817	O	CYS	104	45.940	61.570	20.887	1.00 99.15	O
ATOM	818	N	LEU	105	46.365	60.067	19.253	1.00121.60	N
ATOM	819	CA	LEU	105	47.782	60.193	19.439	1.00121.60	C
ATOM	820	CB	LEU	105	48.574	59.386	18.389	1.00121.60	C
ATOM	821	CG	LEU	105	50.094	59.254	18.637	1.00121.60	C
ATOM	822	CD1	LEU	105	50.753	58.429	17.520	1.00121.60	C
ATOM	823	CD2	LEU	105	50.792	60.609	18.837	1.00121.60	C
ATOM	824	C	LEU	105	48.081	61.645	19.285	1.00121.60	C
ATOM	825	O	LEU	105	48.694	62.257	20.161	1.00121.60	O
ATOM	826	N	ALA	106	47.551	62.256	18.215	1.00104.08	N
ATOM	827	CA	ALA	106	47.850	63.638	18.049	1.00104.08	C
ATOM	828	CB	ALA	106	47.313	64.196	16.723	1.00104.08	C
ATOM	829	C	ALA	106	47.272	64.490	19.141	1.00104.08	C
ATOM	830	O	ALA	106	47.998	64.972	20.005	1.00104.08	O
ATOM	831	N	ALA	107	45.934	64.540	19.249	1.00 76.54	N
ATOM	832	CA	ALA	107	45.285	65.473	20.131	1.00 76.54	C
ATOM	833	CB	ALA	107	43.754	65.331	20.134	1.00 76.54	C
ATOM	834	C	ALA	107	45.757	65.228	21.523	1.00 76.54	C
ATOM	835	O	ALA	107	45.969	66.157	22.300	1.00 76.54	O
ATOM	836	N	GLY	108	45.977	63.955	21.866	1.00 67.39	N
ATOM	837	CA	GLY	108	46.326	63.655	23.215	1.00 67.39	C
ATOM	838	C	GLY	108	47.584	64.374	23.615	1.00 67.39	C
ATOM	839	O	GLY	108	47.560	65.194	24.532	1.00 67.39	O
ATOM	840	N	ARG	109	48.698	64.164	22.887	1.00153.12	N
ATOM	841	CA	ARG	109	49.949	64.744	23.300	1.00153.12	C
ATOM	842	CB	ARG	109	51.132	64.288	22.428	1.00153.12	C
ATOM	843	CG	ARG	109	51.391	62.784	22.510	1.00153.12	C
ATOM	844	CD	ARG	109	52.814	62.397	22.111	1.00153.12	C
ATOM	845	NE	ARG	109	53.719	63.177	23.004	1.00153.12	N
ATOM	846	CZ	ARG	109	54.573	62.539	23.856	1.00153.12	C
ATOM	847	NH1	ARG	109	54.629	61.176	23.880	1.00153.12	N
ATOM	848	NH2	ARG	109	55.367	63.270	24.691	1.00153.12	N
ATOM	849	C	ARG	109	49.848	66.227	23.214	1.00153.12	C
ATOM	850	O	ARG	109	50.362	66.967	24.053	1.00153.12	O
ATOM	851	N	GLN	110	49.139	66.687	22.180	1.00160.49	N
ATOM	852	CA	GLN	110	49.012	68.080	21.898	1.00160.49	C
ATOM	853	CB	GLN	110	48.053	68.276	20.714	1.00160.49	C
ATOM	854	CG	GLN	110	48.054	69.670	20.104	1.00160.49	C
ATOM	855	CD	GLN	110	49.163	69.692	19.068	1.00160.49	C
ATOM	856	OE1	GLN	110	50.340	69.566	19.400	1.00160.49	O
ATOM	857	NE2	GLN	110	48.777	69.835	17.772	1.00160.49	N
ATOM	858	C	GLN	110	48.396	68.761	23.086	1.00160.49	C
ATOM	859	O	GLN	110	48.834	69.832	23.506	1.00160.49	O
ATOM	860	N	ILE	111	47.338	68.161	23.656	1.00109.10	N
ATOM	861	CA	ILE	111	46.687	68.775	24.771	1.00109.10	C
ATOM	862	CB	ILE	111	45.308	68.268	25.058	1.00109.10	C
ATOM	863	CG1	ILE	111	44.392	68.696	23.901	1.00109.10	C
ATOM	864	CG2	ILE	111	44.859	68.803	26.431	1.00109.10	C
ATOM	865	CD1	ILE	111	42.953	68.241	24.065	1.00109.10	C
ATOM	866	C	ILE	111	47.503	68.726	26.018	1.00109.10	C
ATOM	867	O	ILE	111	47.512	69.696	26.765	1.00109.10	O
ATOM	868	N	HIS	112	48.224	67.620	26.277	1.00 99.30	N
ATOM	869	CA	HIS	112	48.957	67.466	27.505	1.00 99.30	C
ATOM	870	ND1	HIS	112	49.565	65.190	29.780	1.00 99.30	N
ATOM	871	CG	HIS	112	50.345	65.743	28.786	1.00 99.30	C
ATOM	872	CB	HIS	112	49.810	66.186	27.462	1.00 99.30	C
ATOM	873	NE2	HIS	112	51.653	65.199	30.543	1.00 99.30	N
ATOM	874	CD2	HIS	112	51.617	65.741	29.270	1.00 99.30	C
ATOM	875	CE1	HIS	112	50.396	64.882	30.805	1.00 99.30	C
ATOM	876	C	HIS	112	49.859	68.655	27.633	1.00 99.30	C
ATOM	877	O	HIS	112	49.926	69.294	28.683	1.00 99.30	O
ATOM	878	N	LYS	113	50.525	69.023	26.526	1.00135.39	N
ATOM	879	CA	LYS	113	51.371	70.176	26.557	1.00135.39	C
ATOM	880	CB	LYS	113	52.058	70.469	25.212	1.00135.39	C
ATOM	881	CG	LYS	113	53.235	69.556	24.867	1.00135.39	C

ATOM	882	CD	LYS	113	52.850	68.114	24.540	1.00135.39	C
ATOM	883	CE	LYS	113	54.039	67.279	24.055	1.00135.39	C
ATOM	884	NZ	LYS	113	53.613	65.886	23.808	1.00135.39	N
ATOM	885	C	LYS	113	50.532	71.379	26.849	1.00135.39	C
ATOM	886	O	LYS	113	50.885	72.208	27.690	1.00135.39	O
ATOM	887	N	ILE	114	49.370	71.491	26.181	1.00172.47	N
ATOM	888	CA	ILE	114	48.618	72.700	26.334	1.00172.47	C
ATOM	889	CB	ILE	114	47.390	72.779	25.437	1.00172.47	C
ATOM	890	CG1	ILE	114	47.018	74.248	25.224	1.00172.47	C
ATOM	891	CG2	ILE	114	46.208	71.971	25.997	1.00172.47	C
ATOM	892	CD1	ILE	114	48.023	74.985	24.345	1.00172.47	C
ATOM	893	C	ILE	114	48.216	72.823	27.773	1.00172.47	C
ATOM	894	O	ILE	114	48.461	73.837	28.419	1.00172.47	O
ATOM	895	N	ARG	115	47.717	71.723	28.349	1.00218.82	N
ATOM	896	CA	ARG	115	47.133	71.706	29.644	1.00218.82	C
ATOM	897	CB	ARG	115	46.751	70.274	30.064	1.00218.82	C
ATOM	898	CG	ARG	115	45.895	70.177	31.329	1.00218.82	C
ATOM	899	CD	ARG	115	44.506	70.797	31.172	1.00218.82	C
ATOM	900	NE	ARG	115	43.924	70.301	29.892	1.00218.82	N
ATOM	901	CZ	ARG	115	43.202	69.143	29.854	1.00218.82	C
ATOM	902	NH1	ARG	115	43.043	68.396	30.985	1.00218.82	N
ATOM	903	NH2	ARG	115	42.625	68.741	28.684	1.00218.82	N
ATOM	904	C	ARG	115	48.088	72.263	30.656	1.00218.82	C
ATOM	905	O	ARG	115	47.726	73.173	31.399	1.00218.82	O
ATOM	906	N	LYS	116	49.346	71.782	30.681	1.00 71.62	N
ATOM	907	CA	LYS	116	50.275	72.209	31.699	1.00 71.62	C
ATOM	908	CB	LYS	116	51.652	71.532	31.588	1.00 71.62	C
ATOM	909	CG	LYS	116	51.653	70.027	31.842	1.00 71.62	C
ATOM	910	CD	LYS	116	52.980	69.368	31.459	1.00 71.62	C
ATOM	911	CE	LYS	116	53.011	67.859	31.696	1.00 71.62	C
ATOM	912	NZ	LYS	116	54.314	67.310	31.256	1.00 71.62	N
ATOM	913	C	LYS	116	50.544	73.669	31.585	1.00 71.62	C
ATOM	914	O	LYS	116	50.576	74.385	32.588	1.00 71.62	O
ATOM	915	N	GLN	117	50.740	74.152	30.348	1.00153.81	N
ATOM	916	CA	GLN	117	51.107	75.527	30.215	1.00153.81	C
ATOM	917	CB	GLN	117	51.327	75.951	28.751	1.00153.81	C
ATOM	918	CG	GLN	117	51.640	77.441	28.584	1.00153.81	C
ATOM	919	CD	GLN	117	53.000	77.737	29.199	1.00153.81	C
ATOM	920	OE1	GLN	117	53.444	78.883	29.224	1.00153.81	O
ATOM	921	NE2	GLN	117	53.685	76.679	29.713	1.00153.81	N
ATOM	922	C	GLN	117	50.008	76.364	30.773	1.00153.81	C
ATOM	923	O	GLN	117	50.251	77.288	31.548	1.00153.81	O
ATOM	924	N	PHE	118	48.756	76.019	30.432	1.00146.71	N
ATOM	925	CA	PHE	118	47.659	76.846	30.830	1.00146.71	C
ATOM	926	CB	PHE	118	46.344	76.507	30.103	1.00146.71	C
ATOM	927	CG	PHE	118	45.383	77.637	30.299	1.00146.71	C
ATOM	928	CD1	PHE	118	45.757	78.928	29.996	1.00146.71	C
ATOM	929	CD2	PHE	118	44.129	77.425	30.821	1.00146.71	C
ATOM	930	CE1	PHE	118	44.892	79.985	30.167	1.00146.71	C
ATOM	931	CE2	PHE	118	43.259	78.477	30.993	1.00146.71	C
ATOM	932	CZ	PHE	118	43.631	79.758	30.666	1.00146.71	C
ATOM	933	C	PHE	118	47.487	76.810	32.320	1.00146.71	C
ATOM	934	O	PHE	118	47.168	77.841	32.911	1.00146.71	O
ATOM	935	N	PHE	119	47.710	75.646	32.978	1.00180.89	N
ATOM	936	CA	PHE	119	47.485	75.595	34.402	1.00180.89	C
ATOM	937	CB	PHE	119	47.939	74.317	35.132	1.00180.89	C
ATOM	938	CG	PHE	119	47.021	73.160	34.961	1.00180.89	C
ATOM	939	CD1	PHE	119	45.666	73.284	35.164	1.00180.89	C
ATOM	940	CD2	PHE	119	47.544	71.919	34.690	1.00180.89	C
ATOM	941	CE1	PHE	119	44.838	72.193	35.031	1.00180.89	C
ATOM	942	CE2	PHE	119	46.724	70.826	34.558	1.00180.89	C
ATOM	943	CZ	PHE	119	45.367	70.964	34.722	1.00180.89	C
ATOM	944	C	PHE	119	48.301	76.649	35.101	1.00180.89	C
ATOM	945	O	PHE	119	47.757	77.487	35.817	1.00180.89	O
ATOM	946	N	HIS	120	49.632	76.643	34.893	1.00104.33	N
ATOM	947	CA	HIS	120	50.534	77.574	35.528	1.00104.33	C
ATOM	948	ND1	HIS	120	53.514	78.210	36.987	1.00104.33	N
ATOM	949	CG	HIS	120	52.998	78.240	35.709	1.00104.33	C
ATOM	950	CB	HIS	120	51.998	77.268	35.166	1.00104.33	C
ATOM	951	NE2	HIS	120	54.501	79.906	35.940	1.00104.33	N
ATOM	952	CD2	HIS	120	53.609	79.283	35.086	1.00104.33	C
ATOM	953	CE1	HIS	120	54.408	79.228	37.070	1.00104.33	C
ATOM	954	C	HIS	120	50.210	78.939	35.038	1.00104.33	C
ATOM	955	O	HIS	120	50.352	79.928	35.758	1.00104.33	O

ATOM	956	N	ALA	121	49.789	79.030	33.767	1.00	95.92	N
ATOM	957	CA	ALA	121	49.527	80.344	33.270	1.00	95.92	C
ATOM	958	CB	ALA	121	49.107	80.353	31.791	1.00	95.92	C
ATOM	959	C	ALA	121	48.416	80.951	34.054	1.00	95.92	C
ATOM	960	O	ALA	121	48.585	82.047	34.593	1.00	95.92	O
ATOM	961	N	ILE	122	47.299	80.207	34.228	1.00	201.21	N
ATOM	962	CA	ILE	122	46.149	80.785	34.858	1.00	201.21	C
ATOM	963	CB	ILE	122	44.970	79.844	34.929	1.00	201.21	C
ATOM	964	CG1	ILE	122	43.681	80.646	35.128	1.00	201.21	C
ATOM	965	CG2	ILE	122	45.204	78.786	36.017	1.00	201.21	C
ATOM	966	CD1	ILE	122	43.311	81.497	33.914	1.00	201.21	C
ATOM	967	C	ILE	122	46.561	81.229	36.230	1.00	201.21	C
ATOM	968	O	ILE	122	46.290	82.357	36.624	1.00	201.21	O
ATOM	969	N	MET	123	47.339	80.403	36.945	1.00	140.58	N
ATOM	970	CA	MET	123	47.745	80.675	38.299	1.00	140.58	C
ATOM	971	CB	MET	123	48.488	79.509	38.966	1.00	140.58	C
ATOM	972	CG	MET	123	47.583	78.299	39.203	1.00	140.58	C
ATOM	973	SD	MET	123	46.148	78.628	40.276	1.00	140.58	S
ATOM	974	CE	MET	123	47.102	78.783	41.813	1.00	140.58	C
ATOM	975	C	MET	123	48.598	81.906	38.406	1.00	140.58	C
ATOM	976	O	MET	123	48.794	82.412	39.506	1.00	140.58	O
ATOM	977	N	ARG	124	49.305	82.286	37.331	1.00	225.38	N
ATOM	978	CA	ARG	124	50.102	83.495	37.274	1.00	225.38	C
ATOM	979	CB	ARG	124	51.217	83.436	36.223	1.00	225.38	C
ATOM	980	CG	ARG	124	52.270	82.359	36.469	1.00	225.38	C
ATOM	981	CD	ARG	124	53.495	82.514	35.566	1.00	225.38	C
ATOM	982	NE	ARG	124	54.573	83.148	36.375	1.00	225.38	N
ATOM	983	CZ	ARG	124	55.751	83.497	35.781	1.00	225.38	C
ATOM	984	NH1	ARG	124	55.929	83.283	34.444	1.00	225.38	N
ATOM	985	NH2	ARG	124	56.749	84.063	36.521	1.00	225.38	N
ATOM	986	C	ARG	124	49.340	84.741	36.931	1.00	225.38	C
ATOM	987	O	ARG	124	49.786	85.841	37.255	1.00	225.38	O
ATOM	988	N	GLN	125	48.199	84.611	36.228	1.00	138.26	N
ATOM	989	CA	GLN	125	47.499	85.730	35.636	1.00	138.26	C
ATOM	990	CB	GLN	125	46.176	85.349	34.937	1.00	138.26	C
ATOM	991	CG	GLN	125	45.444	86.555	34.328	1.00	138.26	C
ATOM	992	CD	GLN	125	44.173	86.081	33.627	1.00	138.26	C
ATOM	993	OE1	GLN	125	43.732	84.945	33.797	1.00	138.26	O
ATOM	994	NE2	GLN	125	43.565	86.982	32.808	1.00	138.26	N
ATOM	995	C	GLN	125	47.169	86.713	36.700	1.00	138.26	C
ATOM	996	O	GLN	125	46.961	87.895	36.422	1.00	138.26	O
ATOM	997	N	GLU	126	47.025	86.216	37.935	1.00	303.03	N
ATOM	998	CA	GLU	126	46.780	87.031	39.070	1.00	303.03	C
ATOM	999	CB	GLU	126	47.928	87.992	39.411	1.00	303.03	C
ATOM	1000	CG	GLU	126	49.318	87.332	39.509	1.00	303.03	C
ATOM	1001	CD	GLU	126	49.370	85.980	40.242	1.00	303.03	C
ATOM	1002	OE1	GLU	126	48.348	85.257	40.389	1.00	303.03	O
ATOM	1003	OE2	GLU	126	50.510	85.637	40.650	1.00	303.03	O
ATOM	1004	C	GLU	126	45.478	87.743	38.924	1.00	303.03	C
ATOM	1005	O	GLU	126	44.458	87.172	38.553	1.00	303.03	O
ATOM	1006	N	ILE	127	45.511	89.050	39.175	1.00	249.93	N
ATOM	1007	CA	ILE	127	44.382	89.906	39.313	1.00	249.93	C
ATOM	1008	CB	ILE	127	44.851	91.307	39.490	1.00	249.93	C
ATOM	1009	CG1	ILE	127	46.024	91.293	40.482	1.00	249.93	C
ATOM	1010	CG2	ILE	127	43.662	92.160	39.937	1.00	249.93	C
ATOM	1011	CD1	ILE	127	45.765	90.398	41.687	1.00	249.93	C
ATOM	1012	C	ILE	127	43.471	89.913	38.124	1.00	249.93	C
ATOM	1013	O	ILE	127	42.297	90.261	38.253	1.00	249.93	O
ATOM	1014	N	GLY	128	44.001	89.658	36.920	1.00	79.07	N
ATOM	1015	CA	GLY	128	43.176	89.656	35.744	1.00	79.07	C
ATOM	1016	C	GLY	128	42.143	88.596	35.880	1.00	79.07	C
ATOM	1017	O	GLY	128	41.032	88.688	35.359	1.00	79.07	O
ATOM	1018	N	TRP	129	42.530	87.539	36.588	1.00	201.20	N
ATOM	1019	CA	TRP	129	41.749	86.380	36.874	1.00	201.20	C
ATOM	1020	CB	TRP	129	42.653	85.361	37.593	1.00	201.20	C
ATOM	1021	CG	TRP	129	42.116	84.325	38.538	1.00	201.20	C
ATOM	1022	CD2	TRP	129	42.965	83.819	39.579	1.00	201.20	C
ATOM	1023	CD1	TRP	129	40.949	83.624	38.613	1.00	201.20	C
ATOM	1024	NE1	TRP	129	41.011	82.730	39.661	1.00	201.20	N
ATOM	1025	CE2	TRP	129	42.255	82.838	40.255	1.00	201.20	C
ATOM	1026	CE3	TRP	129	44.247	84.149	39.925	1.00	201.20	C
ATOM	1027	CZ2	TRP	129	42.818	82.159	41.301	1.00	201.20	C
ATOM	1028	CZ3	TRP	129	44.810	83.476	40.986	1.00	201.20	C
ATOM	1029	CH2	TRP	129	44.107	82.499	41.661	1.00	201.20	C

ATOM	1030	C	TRP	129	40.530	86.783	37.613	1.00201.20	C
ATOM	1031	O	TRP	129	39.581	86.009	37.692	1.00201.20	O
ATOM	1032	N	PHE	130	40.584	87.896	38.353	1.00146.55	N
ATOM	1033	CA	PHE	130	39.374	88.484	38.826	1.00146.55	C
ATOM	1034	CB	PHE	130	39.561	89.264	40.137	1.00146.55	C
ATOM	1035	CG	PHE	130	38.190	89.571	40.633	1.00146.55	C
ATOM	1036	CD1	PHE	130	37.525	88.671	41.431	1.00146.55	C
ATOM	1037	CD2	PHE	130	37.570	90.750	40.291	1.00146.55	C
ATOM	1038	CE1	PHE	130	36.258	88.946	41.888	1.00146.55	C
ATOM	1039	CE2	PHE	130	36.303	91.031	40.744	1.00146.55	C
ATOM	1040	CZ	PHE	130	35.644	90.128	41.545	1.00146.55	C
ATOM	1041	C	PHE	130	38.870	89.467	37.793	1.00146.55	C
ATOM	1042	O	PHE	130	37.667	89.632	37.600	1.00146.55	O
ATOM	1043	N	ASP	131	39.781	90.189	37.101	1.00225.09	N
ATOM	1044	CA	ASP	131	39.273	91.257	36.286	1.00225.09	C
ATOM	1045	CB	ASP	131	40.267	92.352	35.881	1.00225.09	C
ATOM	1046	CG	ASP	131	41.416	91.876	35.031	1.00225.09	C
ATOM	1047	OD1	ASP	131	41.198	91.118	34.052	1.00225.09	O
ATOM	1048	OD2	ASP	131	42.557	92.293	35.361	1.00225.09	O
ATOM	1049	C	ASP	131	38.444	90.846	35.142	1.00225.09	C
ATOM	1050	O	ASP	131	37.411	91.451	34.866	1.00225.09	O
ATOM	1051	N	VAL	132	38.852	89.810	34.431	1.00192.77	N
ATOM	1052	CA	VAL	132	37.990	89.415	33.384	1.00192.77	C
ATOM	1053	CB	VAL	132	38.682	89.385	32.052	1.00192.77	C
ATOM	1054	CG1	VAL	132	39.854	88.398	32.141	1.00192.77	C
ATOM	1055	CG2	VAL	132	37.656	89.062	30.954	1.00192.77	C
ATOM	1056	C	VAL	132	37.665	88.045	33.805	1.00192.77	C
ATOM	1057	O	VAL	132	38.112	87.610	34.863	1.00192.77	O
ATOM	1058	N	HIS	133	36.799	87.375	33.048	1.00344.20	N
ATOM	1059	CA	HIS	133	36.530	86.005	33.322	1.00344.20	C
ATOM	1060	ND1	HIS	133	39.019	84.710	31.570	1.00344.20	N
ATOM	1061	CG	HIS	133	38.975	85.183	32.864	1.00344.20	C
ATOM	1062	CB	HIS	133	37.755	85.149	33.752	1.00344.20	C
ATOM	1063	NE2	HIS	133	41.074	85.409	32.057	1.00344.20	N
ATOM	1064	CD2	HIS	133	40.239	85.607	33.143	1.00344.20	C
ATOM	1065	CE1	HIS	133	40.294	84.870	31.138	1.00344.20	C
ATOM	1066	C	HIS	133	35.497	85.852	34.396	1.00344.20	C
ATOM	1067	O	HIS	133	35.637	86.351	35.512	1.00344.20	O
ATOM	1068	N	ASP	134	34.435	85.092	34.069	1.00125.69	N
ATOM	1069	CA	ASP	134	33.393	84.776	35.000	1.00125.69	C
ATOM	1070	CB	ASP	134	32.271	83.935	34.366	1.00125.69	C
ATOM	1071	CG	ASP	134	31.538	84.815	33.361	1.00125.69	C
ATOM	1072	OD1	ASP	134	31.357	86.027	33.654	1.00125.69	O
ATOM	1073	OD2	ASP	134	31.147	84.286	32.287	1.00125.69	O
ATOM	1074	C	ASP	134	34.067	83.949	36.043	1.00125.69	C
ATOM	1075	O	ASP	134	33.603	83.821	37.175	1.00125.69	O
ATOM	1076	N	VAL	135	35.174	83.308	35.624	1.00172.77	N
ATOM	1077	CA	VAL	135	36.036	82.469	36.410	1.00172.77	C
ATOM	1078	CB	VAL	135	36.314	83.036	37.771	1.00172.77	C
ATOM	1079	CG1	VAL	135	37.146	82.009	38.554	1.00172.77	C
ATOM	1080	CG2	VAL	135	37.001	84.405	37.611	1.00172.77	C
ATOM	1081	C	VAL	135	35.327	81.168	36.586	1.00172.77	C
ATOM	1082	O	VAL	135	35.962	80.113	36.618	1.00172.77	O
ATOM	1083	N	GLY	136	33.981	81.213	36.691	1.00 77.62	N
ATOM	1084	CA	GLY	136	33.206	80.016	36.681	1.00 77.62	C
ATOM	1085	C	GLY	136	33.244	79.573	35.267	1.00 77.62	C
ATOM	1086	O	GLY	136	33.512	78.417	34.952	1.00 77.62	O
ATOM	1087	N	GLU	137	33.020	80.549	34.369	1.00131.98	N
ATOM	1088	CA	GLU	137	33.011	80.316	32.962	1.00131.98	C
ATOM	1089	CB	GLU	137	32.686	81.589	32.158	1.00131.98	C
ATOM	1090	CG	GLU	137	32.682	81.397	30.637	1.00131.98	C
ATOM	1091	CD	GLU	137	34.059	81.779	30.107	1.00131.98	C
ATOM	1092	OE1	GLU	137	34.927	82.170	30.931	1.00131.98	O
ATOM	1093	OE2	GLU	137	34.256	81.693	28.864	1.00131.98	O
ATOM	1094	C	GLU	137	34.388	79.862	32.587	1.00131.98	C
ATOM	1095	O	GLU	137	34.533	79.060	31.671	1.00131.98	O
ATOM	1096	N	LEU	138	35.419	80.393	33.284	1.00204.34	N
ATOM	1097	CA	LEU	138	36.824	80.170	33.011	1.00204.34	C
ATOM	1098	CB	LEU	138	37.736	81.061	33.893	1.00204.34	C
ATOM	1099	CG	LEU	138	39.260	81.115	33.568	1.00204.34	C
ATOM	1100	CD1	LEU	138	39.970	82.061	34.551	1.00204.34	C
ATOM	1101	CD2	LEU	138	39.972	79.752	33.549	1.00204.34	C
ATOM	1102	C	LEU	138	37.251	78.755	33.205	1.00204.34	C
ATOM	1103	O	LEU	138	37.781	78.172	32.273	1.00204.34	O

ATOM	1104	N	ASN	139	37.038	78.147	34.385	1.00184.55	N
ATOM	1105	CA	ASN	139	37.538	76.814	34.617	1.00184.55	C
ATOM	1106	CB	ASN	139	37.111	76.267	35.978	1.00184.55	C
ATOM	1107	CG	ASN	139	37.346	77.372	36.977	1.00184.55	C
ATOM	1108	OD1	ASN	139	38.265	78.174	36.833	1.00184.55	O
ATOM	1109	ND2	ASN	139	36.459	77.435	38.002	1.00184.55	N
ATOM	1110	C	ASN	139	36.796	75.984	33.660	1.00184.55	C
ATOM	1111	O	ASN	139	37.348	75.075	33.041	1.00184.55	O
ATOM	1112	N	THR	140	35.504	76.329	33.517	1.00 88.08	N
ATOM	1113	CA	THR	140	34.641	75.612	32.645	1.00 88.08	C
ATOM	1114	CB	THR	140	33.289	76.246	32.514	1.00 88.08	C
ATOM	1115	OG1	THR	140	32.649	76.292	33.780	1.00 88.08	O
ATOM	1116	CG2	THR	140	32.450	75.417	31.531	1.00 88.08	C
ATOM	1117	C	THR	140	35.325	75.682	31.330	1.00 88.08	C
ATOM	1118	O	THR	140	35.394	74.690	30.613	1.00 88.08	O
ATOM	1119	N	ARG	141	35.892	76.861	31.023	1.00264.61	N
ATOM	1120	CA	ARG	141	36.642	77.105	29.823	1.00264.61	C
ATOM	1121	CB	ARG	141	37.024	78.581	29.673	1.00264.61	C
ATOM	1122	CG	ARG	141	37.674	78.895	28.336	1.00264.61	C
ATOM	1123	CD	ARG	141	37.898	80.389	28.124	1.00264.61	C
ATOM	1124	NE	ARG	141	37.934	80.594	26.653	1.00264.61	N
ATOM	1125	CZ	ARG	141	36.767	80.736	25.962	1.00264.61	C
ATOM	1126	NH1	ARG	141	35.578	80.777	26.630	1.00264.61	N
ATOM	1127	NH2	ARG	141	36.786	80.817	24.600	1.00264.61	N
ATOM	1128	C	ARG	141	37.926	76.314	29.815	1.00264.61	C
ATOM	1129	O	ARG	141	38.366	75.883	28.762	1.00264.61	O
ATOM	1130	N	LEU	142	38.602	76.109	30.959	1.00184.33	N
ATOM	1131	CA	LEU	142	39.855	75.404	30.942	1.00184.33	C
ATOM	1132	CB	LEU	142	40.388	75.234	32.384	1.00184.33	C
ATOM	1133	CG	LEU	142	41.669	74.391	32.587	1.00184.33	C
ATOM	1134	CD1	LEU	142	41.415	72.889	32.375	1.00184.33	C
ATOM	1135	CD2	LEU	142	42.840	74.932	31.756	1.00184.33	C
ATOM	1136	C	LEU	142	39.596	74.051	30.374	1.00184.33	C
ATOM	1137	O	LEU	142	40.196	73.683	29.369	1.00184.33	O
ATOM	1138	N	THR	143	38.663	73.290	30.976	1.00169.24	N
ATOM	1139	CA	THR	143	38.382	71.966	30.492	1.00169.24	C
ATOM	1140	CB	THR	143	37.549	71.158	31.443	1.00169.24	C
ATOM	1141	OG1	THR	143	36.287	71.774	31.646	1.00169.24	O
ATOM	1142	CG2	THR	143	38.305	71.038	32.773	1.00169.24	C
ATOM	1143	C	THR	143	37.658	72.011	29.192	1.00169.24	C
ATOM	1144	O	THR	143	38.037	71.318	28.253	1.00169.24	O
ATOM	1145	N	ASP	144	36.605	72.843	29.098	1.00102.55	N
ATOM	1146	CA	ASP	144	35.795	72.842	27.916	1.00102.55	C
ATOM	1147	CB	ASP	144	34.589	73.791	28.001	1.00102.55	C
ATOM	1148	CG	ASP	144	33.562	73.120	28.898	1.00102.55	C
ATOM	1149	OD1	ASP	144	33.735	71.904	29.178	1.00102.55	O
ATOM	1150	OD2	ASP	144	32.593	73.809	29.311	1.00102.55	O
ATOM	1151	C	ASP	144	36.616	73.262	26.745	1.00102.55	C
ATOM	1152	O	ASP	144	36.553	72.621	25.702	1.00102.55	O
ATOM	1153	N	ASP	145	37.399	74.347	26.885	1.00162.91	N
ATOM	1154	CA	ASP	145	38.184	74.846	25.798	1.00162.91	C
ATOM	1155	CB	ASP	145	38.860	76.192	26.100	1.00162.91	C
ATOM	1156	CG	ASP	145	39.178	76.835	24.773	1.00162.91	C
ATOM	1157	OD1	ASP	145	38.902	76.168	23.744	1.00162.91	O
ATOM	1158	OD2	ASP	145	39.677	77.994	24.762	1.00162.91	O
ATOM	1159	C	ASP	145	39.258	73.866	25.470	1.00162.91	C
ATOM	1160	O	ASP	145	39.404	73.497	24.307	1.00162.91	O
ATOM	1161	N	VAL	146	39.997	73.371	26.490	1.00185.71	N
ATOM	1162	CA	VAL	146	41.075	72.466	26.206	1.00185.71	C
ATOM	1163	CB	VAL	146	41.805	71.923	27.399	1.00185.71	C
ATOM	1164	CG1	VAL	146	42.525	73.085	28.080	1.00185.71	C
ATOM	1165	CG2	VAL	146	40.834	71.159	28.309	1.00185.71	C
ATOM	1166	C	VAL	146	40.484	71.301	25.479	1.00185.71	C
ATOM	1167	O	VAL	146	41.020	70.867	24.468	1.00185.71	O
ATOM	1168	N	SER	147	39.323	70.809	25.936	1.00155.20	N
ATOM	1169	CA	SER	147	38.678	69.673	25.337	1.00155.20	C
ATOM	1170	CB	SER	147	37.430	69.251	26.131	1.00155.20	C
ATOM	1171	OG	SER	147	36.826	68.124	25.520	1.00155.20	O
ATOM	1172	C	SER	147	38.250	70.011	23.927	1.00155.20	C
ATOM	1173	O	SER	147	38.458	69.226	23.006	1.00155.20	O
ATOM	1174	N	LYS	148	37.670	71.208	23.700	1.00113.94	N
ATOM	1175	CA	LYS	148	37.144	71.584	22.417	1.00113.94	C
ATOM	1176	CB	LYS	148	36.402	72.931	22.453	1.00113.94	C
ATOM	1177	CG	LYS	148	35.126	72.822	23.297	1.00113.94	C

ATOM	1178	CD	LYS	148	34.442	74.144	23.651	1.00113.94	C
ATOM	1179	CE	LYS	148	33.043	74.284	23.042	1.00113.94	C
ATOM	1180	NZ	LYS	148	32.305	75.374	23.717	1.00113.94	N
ATOM	1181	C	LYS	148	38.271	71.616	21.439	1.00113.94	C
ATOM	1182	O	LYS	148	38.070	71.403	20.244	1.00113.94	O
ATOM	1183	N	ILE	149	39.485	71.927	21.924	1.00215.92	N
ATOM	1184	CA	ILE	149	40.626	71.924	21.073	1.00215.92	C
ATOM	1185	CB	ILE	149	41.851	72.473	21.768	1.00215.92	C
ATOM	1186	CG1	ILE	149	42.723	73.135	20.728	1.00215.92	C
ATOM	1187	CG2	ILE	149	42.687	71.342	22.377	1.00215.92	C
ATOM	1188	CD1	ILE	149	43.254	72.081	19.785	1.00215.92	C
ATOM	1189	C	ILE	149	40.797	70.487	20.656	1.00215.92	C
ATOM	1190	O	ILE	149	40.968	70.188	19.476	1.00215.92	O
ATOM	1191	N	ASN	150	40.651	69.551	21.622	1.00 98.18	N
ATOM	1192	CA	ASN	150	40.822	68.138	21.419	1.00 98.18	C
ATOM	1193	CB	ASN	150	40.499	67.342	22.699	1.00 98.18	C
ATOM	1194	CG	ASN	150	41.024	65.919	22.563	1.00 98.18	C
ATOM	1195	OD1	ASN	150	40.473	65.106	21.825	1.00 98.18	O
ATOM	1196	ND2	ASN	150	42.126	65.607	23.296	1.00 98.18	N
ATOM	1197	C	ASN	150	39.873	67.692	20.344	1.00 98.18	C
ATOM	1198	O	ASN	150	40.283	67.114	19.339	1.00 98.18	O
ATOM	1199	N	GLU	151	38.579	68.030	20.476	1.00 73.56	N
ATOM	1200	CA	GLU	151	37.611	67.568	19.524	1.00 73.56	C
ATOM	1201	CB	GLU	151	36.179	68.029	19.847	1.00 73.56	C
ATOM	1202	CG	GLU	151	35.624	67.379	21.118	1.00 73.56	C
ATOM	1203	CD	GLU	151	34.146	67.722	21.242	1.00 73.56	C
ATOM	1204	OE1	GLU	151	33.668	68.592	20.465	1.00 73.56	O
ATOM	1205	OE2	GLU	151	33.474	67.109	22.113	1.00 73.56	O
ATOM	1206	C	GLU	151	38.003	68.114	18.180	1.00 73.56	C
ATOM	1207	O	GLU	151	37.807	67.452	17.162	1.00 73.56	O
ATOM	1208	N	GLY	152	38.592	69.328	18.146	1.00 51.80	N
ATOM	1209	CA	GLY	152	38.957	69.958	16.911	1.00 51.80	C
ATOM	1210	C	GLY	152	39.911	69.076	16.158	1.00 51.80	C
ATOM	1211	O	GLY	152	39.786	68.935	14.943	1.00 51.80	O
ATOM	1212	N	ILE	153	40.915	68.491	16.847	1.00138.24	N
ATOM	1213	CA	ILE	153	41.890	67.678	16.165	1.00138.24	C
ATOM	1214	CB	ILE	153	43.110	67.404	16.993	1.00138.24	C
ATOM	1215	CG1	ILE	153	43.928	68.691	17.171	1.00138.24	C
ATOM	1216	CG2	ILE	153	43.906	66.285	16.301	1.00138.24	C
ATOM	1217	CD1	ILE	153	43.200	69.783	17.943	1.00138.24	C
ATOM	1218	C	ILE	153	41.390	66.333	15.649	1.00138.24	C
ATOM	1219	O	ILE	153	41.533	66.050	14.463	1.00138.24	O
ATOM	1220	N	GLY	154	40.782	65.463	16.493	1.00 70.43	N
ATOM	1221	CA	GLY	154	40.367	64.129	16.086	1.00 70.43	C
ATOM	1222	C	GLY	154	39.261	64.181	15.062	1.00 70.43	C
ATOM	1223	O	GLY	154	39.197	63.352	14.155	1.00 70.43	O
ATOM	1224	N	ASP	155	38.306	65.115	15.231	1.00 76.43	N
ATOM	1225	CA	ASP	155	37.185	65.244	14.344	1.00 76.43	C
ATOM	1226	CB	ASP	155	36.129	66.251	14.847	1.00 76.43	C
ATOM	1227	CG	ASP	155	35.474	65.719	16.119	1.00 76.43	C
ATOM	1228	OD1	ASP	155	35.877	64.626	16.594	1.00 76.43	O
ATOM	1229	OD2	ASP	155	34.554	66.410	16.635	1.00 76.43	O
ATOM	1230	C	ASP	155	37.666	65.738	13.020	1.00 76.43	C
ATOM	1231	O	ASP	155	37.191	65.277	11.987	1.00 76.43	O
ATOM	1232	N	LYS	156	38.646	66.664	13.013	1.00155.16	N
ATOM	1233	CA	LYS	156	39.112	67.235	11.782	1.00155.16	C
ATOM	1234	CB	LYS	156	40.305	68.190	11.918	1.00155.16	C
ATOM	1235	CG	LYS	156	41.592	67.402	12.086	1.00155.16	C
ATOM	1236	CD	LYS	156	42.880	68.134	11.738	1.00155.16	C
ATOM	1237	CE	LYS	156	43.938	67.106	11.366	1.00155.16	C
ATOM	1238	NZ	LYS	156	43.272	66.046	10.568	1.00155.16	N
ATOM	1239	C	LYS	156	39.583	66.090	10.948	1.00155.16	C
ATOM	1240	O	LYS	156	39.493	66.118	9.719	1.00155.16	O
ATOM	1241	N	ILE	157	40.091	65.037	11.614	1.00211.11	N
ATOM	1242	CA	ILE	157	40.572	63.906	10.882	1.00211.11	C
ATOM	1243	CB	ILE	157	40.794	62.681	11.690	1.00211.11	C
ATOM	1244	CG1	ILE	157	41.601	62.900	12.945	1.00211.11	C
ATOM	1245	CG2	ILE	157	41.430	61.656	10.753	1.00211.11	C
ATOM	1246	CD1	ILE	157	41.380	61.705	13.866	1.00211.11	C
ATOM	1247	C	ILE	157	39.407	63.405	10.112	1.00211.11	C
ATOM	1248	O	ILE	157	39.459	63.245	8.896	1.00211.11	O
ATOM	1249	N	GLY	158	38.286	63.226	10.829	1.00 66.10	N
ATOM	1250	CA	GLY	158	37.115	62.619	10.277	1.00 66.10	C
ATOM	1251	C	GLY	158	36.734	63.351	9.029	1.00 66.10	C

ATOM	1252	O	GLY	158	36.435	62.721	8.017	1.00	66.10	O
ATOM	1253	N	MET	159	36.781	64.697	9.047	1.00	82.20	N
ATOM	1254	CA	MET	159	36.379	65.483	7.915	1.00	82.20	C
ATOM	1255	CB	MET	159	36.618	66.985	8.162	1.00	82.20	C
ATOM	1256	CG	MET	159	36.175	67.922	7.031	1.00	82.20	C
ATOM	1257	SD	MET	159	37.250	67.974	5.561	1.00	82.20	S
ATOM	1258	CE	MET	159	38.716	68.564	6.456	1.00	82.20	C
ATOM	1259	C	MET	159	37.215	65.147	6.728	1.00	82.20	C
ATOM	1260	O	MET	159	36.684	64.801	5.677	1.00	82.20	O
ATOM	1261	N	PHE	160	38.549	65.147	6.913	1.00	148.24	N
ATOM	1262	CA	PHE	160	39.505	65.049	5.844	1.00	148.24	C
ATOM	1263	CB	PHE	160	40.925	64.877	6.413	1.00	148.24	C
ATOM	1264	CG	PHE	160	41.896	65.528	5.491	1.00	148.24	C
ATOM	1265	CD1	PHE	160	42.325	64.917	4.338	1.00	148.24	C
ATOM	1266	CD2	PHE	160	42.388	66.773	5.811	1.00	148.24	C
ATOM	1267	CE1	PHE	160	43.224	65.549	3.511	1.00	148.24	C
ATOM	1268	CE2	PHE	160	43.286	67.408	4.989	1.00	148.24	C
ATOM	1269	CZ	PHE	160	43.706	66.795	3.835	1.00	148.24	C
ATOM	1270	C	PHE	160	39.124	63.819	5.095	1.00	148.24	C
ATOM	1271	O	PHE	160	38.928	63.843	3.879	1.00	148.24	O
ATOM	1272	N	PHE	161	38.867	62.749	5.862	1.00	113.41	N
ATOM	1273	CA	PHE	161	38.437	61.505	5.311	1.00	113.41	C
ATOM	1274	CB	PHE	161	38.169	60.515	6.465	1.00	113.41	C
ATOM	1275	CG	PHE	161	37.005	59.641	6.169	1.00	113.41	C
ATOM	1276	CD1	PHE	161	36.975	58.809	5.076	1.00	113.41	C
ATOM	1277	CD2	PHE	161	35.942	59.638	7.043	1.00	113.41	C
ATOM	1278	CE1	PHE	161	35.877	58.011	4.849	1.00	113.41	C
ATOM	1279	CE2	PHE	161	34.845	58.841	6.822	1.00	113.41	C
ATOM	1280	CZ	PHE	161	34.811	58.027	5.717	1.00	113.41	C
ATOM	1281	C	PHE	161	37.210	61.708	4.452	1.00	113.41	C
ATOM	1282	O	PHE	161	37.226	61.412	3.260	1.00	113.41	O
ATOM	1283	N	GLN	162	36.132	62.299	4.989	1.00	133.17	N
ATOM	1284	CA	GLN	162	34.911	62.436	4.233	1.00	133.17	C
ATOM	1285	CB	GLN	162	33.775	63.041	5.078	1.00	133.17	C
ATOM	1286	CG	GLN	162	32.432	63.123	4.351	1.00	133.17	C
ATOM	1287	CD	GLN	162	31.838	61.723	4.288	1.00	133.17	C
ATOM	1288	OE1	GLN	162	32.525	60.755	3.963	1.00	133.17	O
ATOM	1289	NE2	GLN	162	30.523	61.607	4.614	1.00	133.17	N
ATOM	1290	C	GLN	162	35.127	63.330	3.051	1.00	133.17	C
ATOM	1291	O	GLN	162	34.580	63.087	1.975	1.00	133.17	O
ATOM	1292	N	SER	163	35.947	64.386	3.210	1.00	82.98	N
ATOM	1293	CA	SER	163	36.148	65.339	2.157	1.00	82.98	C
ATOM	1294	CB	SER	163	37.217	66.389	2.505	1.00	82.98	C
ATOM	1295	OG	SER	163	37.373	67.308	1.433	1.00	82.98	O
ATOM	1296	C	SER	163	36.621	64.596	0.948	1.00	82.98	C
ATOM	1297	O	SER	163	36.273	64.939	-0.179	1.00	82.98	O
ATOM	1298	N	MET	164	37.479	63.584	1.157	1.00	98.08	N
ATOM	1299	CA	MET	164	38.014	62.769	0.097	1.00	98.08	C
ATOM	1300	CB	MET	164	39.259	61.989	0.547	1.00	98.08	C
ATOM	1301	CG	MET	164	40.435	62.919	0.852	1.00	98.08	C
ATOM	1302	SD	MET	164	40.945	63.937	-0.566	1.00	98.08	S
ATOM	1303	CE	MET	164	42.415	64.643	0.229	1.00	98.08	C
ATOM	1304	C	MET	164	37.027	61.796	-0.475	1.00	98.08	C
ATOM	1305	O	MET	164	37.052	61.519	-1.673	1.00	98.08	O
ATOM	1306	N	ALA	165	36.157	61.203	0.362	1.00	44.05	N
ATOM	1307	CA	ALA	165	35.249	60.238	-0.182	1.00	44.05	C
ATOM	1308	CB	ALA	165	34.334	59.601	0.878	1.00	44.05	C
ATOM	1309	C	ALA	165	34.390	60.968	-1.156	1.00	44.05	C
ATOM	1310	O	ALA	165	34.123	60.478	-2.247	1.00	44.05	O
ATOM	1311	N	THR	166	33.922	62.172	-0.788	1.00	121.64	N
ATOM	1312	CA	THR	166	33.086	62.913	-1.686	1.00	121.64	C
ATOM	1313	CB	THR	166	32.456	64.118	-1.047	1.00	121.64	C
ATOM	1314	OG1	THR	166	31.633	64.793	-1.986	1.00	121.64	O
ATOM	1315	CG2	THR	166	33.561	65.055	-0.537	1.00	121.64	C
ATOM	1316	C	THR	166	33.868	63.375	-2.878	1.00	121.64	C
ATOM	1317	O	THR	166	33.432	63.216	-4.018	1.00	121.64	O
ATOM	1318	N	PHE	167	35.068	63.942	-2.659	1.00	110.81	N
ATOM	1319	CA	PHE	167	35.780	64.490	-3.777	1.00	110.81	C
ATOM	1320	CB	PHE	167	37.124	65.125	-3.379	1.00	110.81	C
ATOM	1321	CG	PHE	167	37.741	65.686	-4.618	1.00	110.81	C
ATOM	1322	CD1	PHE	167	38.565	64.918	-5.408	1.00	110.81	C
ATOM	1323	CD2	PHE	167	37.483	66.983	-4.993	1.00	110.81	C
ATOM	1324	CE1	PHE	167	39.128	65.438	-6.549	1.00	110.81	C
ATOM	1325	CE2	PHE	167	38.043	67.510	-6.132	1.00	110.81	C

ATOM	1326	CZ	PHE	167	38.867	66.737	-6.914	1.00110.81	C
ATOM	1327	C	PHE	167	36.071	63.403	-4.764	1.00110.81	C
ATOM	1328	O	PHE	167	35.675	63.490	-5.925	1.00110.81	O
ATOM	1329	N	PHE	168	36.730	62.322	-4.309	1.00 86.66	N
ATOM	1330	CA	PHE	168	37.111	61.235	-5.162	1.00 86.66	C
ATOM	1331	CB	PHE	168	37.962	60.150	-4.479	1.00 86.66	C
ATOM	1332	CG	PHE	168	39.283	60.726	-4.111	1.00 86.66	C
ATOM	1333	CD1	PHE	168	40.232	61.004	-5.069	1.00 86.66	C
ATOM	1334	CD2	PHE	168	39.576	60.966	-2.790	1.00 86.66	C
ATOM	1335	CE1	PHE	168	41.450	61.530	-4.708	1.00 86.66	C
ATOM	1336	CE2	PHE	168	40.791	61.491	-2.424	1.00 86.66	C
ATOM	1337	CZ	PHE	168	41.731	61.777	-3.384	1.00 86.66	C
ATOM	1338	C	PHE	168	35.893	60.532	-5.664	1.00 86.66	C
ATOM	1339	O	PHE	168	35.897	60.094	-6.807	1.00 86.66	O
ATOM	1340	N	THR	169	34.839	60.348	-4.838	1.00157.85	N
ATOM	1341	CA	THR	169	33.682	59.643	-5.343	1.00157.85	C
ATOM	1342	CB	THR	169	32.442	59.659	-4.428	1.00157.85	C
ATOM	1343	OG1	THR	169	32.201	60.954	-3.899	1.00157.85	O
ATOM	1344	CG2	THR	169	32.440	58.629	-3.295	1.00157.85	C
ATOM	1345	C	THR	169	33.182	60.324	-6.581	1.00157.85	C
ATOM	1346	O	THR	169	33.353	59.834	-7.699	1.00157.85	O
ATOM	1347	N	GLY	170	32.702	61.562	-6.407	1.00 60.82	N
ATOM	1348	CA	GLY	170	32.033	62.294	-7.426	1.00 60.82	C
ATOM	1349	C	GLY	170	32.971	62.410	-8.563	1.00 60.82	C
ATOM	1350	O	GLY	170	32.548	62.628	-9.694	1.00 60.82	O
ATOM	1351	N	PHE	171	34.276	62.449	-8.265	1.00128.66	N
ATOM	1352	CA	PHE	171	35.243	62.520	-9.314	1.00128.66	C
ATOM	1353	CB	PHE	171	36.618	62.901	-8.738	1.00128.66	C
ATOM	1354	CG	PHE	171	37.567	63.165	-9.849	1.00128.66	C
ATOM	1355	CD1	PHE	171	37.496	64.350	-10.542	1.00128.66	C
ATOM	1356	CD2	PHE	171	38.540	62.252	-10.184	1.00128.66	C
ATOM	1357	CE1	PHE	171	38.369	64.617	-11.569	1.00128.66	C
ATOM	1358	CE2	PHE	171	39.418	62.515	-11.210	1.00128.66	C
ATOM	1359	CZ	PHE	171	39.332	63.698	-11.904	1.00128.66	C
ATOM	1360	C	PHE	171	35.403	61.227	-10.054	1.00128.66	C
ATOM	1361	O	PHE	171	34.905	61.079	-11.161	1.00128.66	O
ATOM	1362	N	ILE	172	35.944	60.195	-9.375	1.00 78.13	N
ATOM	1363	CA	ILE	172	36.374	58.976	-9.996	1.00 78.13	C
ATOM	1364	CB	ILE	172	36.776	57.942	-8.994	1.00 78.13	C
ATOM	1365	CG1	ILE	172	37.973	58.442	-8.173	1.00 78.13	C
ATOM	1366	CG2	ILE	172	37.032	56.621	-9.742	1.00 78.13	C
ATOM	1367	CD1	ILE	172	38.217	57.626	-6.908	1.00 78.13	C
ATOM	1368	C	ILE	172	35.219	58.410	-10.743	1.00 78.13	C
ATOM	1369	O	ILE	172	35.309	58.179	-11.947	1.00 78.13	O
ATOM	1370	N	VAL	173	34.085	58.206	-10.061	1.00123.92	N
ATOM	1371	CA	VAL	173	32.946	57.709	-10.770	1.00123.92	C
ATOM	1372	CB	VAL	173	31.863	57.190	-9.859	1.00123.92	C
ATOM	1373	CG1	VAL	173	32.424	55.985	-9.083	1.00123.92	C
ATOM	1374	CG2	VAL	173	31.354	58.324	-8.949	1.00123.92	C
ATOM	1375	C	VAL	173	32.353	58.789	-11.621	1.00123.92	C
ATOM	1376	O	VAL	173	32.073	58.596	-12.802	1.00123.92	O
ATOM	1377	N	GLY	174	32.235	59.995	-11.045	1.00 87.43	N
ATOM	1378	CA	GLY	174	31.502	61.072	-11.637	1.00 87.43	C
ATOM	1379	C	GLY	174	32.034	61.438	-12.974	1.00 87.43	C
ATOM	1380	O	GLY	174	31.316	62.057	-13.745	1.00 87.43	O
ATOM	1381	N	PHE	175	33.339	61.341	-13.218	1.00132.86	N
ATOM	1382	CA	PHE	175	33.844	61.495	-14.548	1.00132.86	C
ATOM	1383	CB	PHE	175	35.144	62.314	-14.523	1.00132.86	C
ATOM	1384	CG	PHE	175	35.685	62.364	-15.901	1.00132.86	C
ATOM	1385	CD1	PHE	175	35.087	63.140	-16.866	1.00132.86	C
ATOM	1386	CD2	PHE	175	36.811	61.641	-16.215	1.00132.86	C
ATOM	1387	CE1	PHE	175	35.603	63.175	-18.140	1.00132.86	C
ATOM	1388	CE2	PHE	175	37.330	61.675	-17.485	1.00132.86	C
ATOM	1389	CZ	PHE	175	36.724	62.442	-18.449	1.00132.86	C
ATOM	1390	C	PHE	175	34.096	60.198	-15.283	1.00132.86	C
ATOM	1391	O	PHE	175	33.598	59.958	-16.381	1.00132.86	O
ATOM	1392	N	THR	176	34.826	59.275	-14.622	1.00 62.62	N
ATOM	1393	CA	THR	176	35.402	58.135	-15.286	1.00 62.62	C
ATOM	1394	CB	THR	176	36.187	57.249	-14.369	1.00 62.62	C
ATOM	1395	OG1	THR	176	37.225	57.985	-13.739	1.00 62.62	O
ATOM	1396	CG2	THR	176	36.785	56.103	-15.204	1.00 62.62	C
ATOM	1397	C	THR	176	34.368	57.273	-15.908	1.00 62.62	C
ATOM	1398	O	THR	176	34.513	56.859	-17.057	1.00 62.62	O
ATOM	1399	N	ARG	177	33.282	56.979	-15.184	1.00196.21	N

ATOM	1400	CA	ARG	177	32.397	56.035	-15.779	1.00196.21	C
ATOM	1401	CB	ARG	177	31.810	55.068	-14.740	1.00196.21	C
ATOM	1402	CG	ARG	177	31.263	53.762	-15.318	1.00196.21	C
ATOM	1403	CD	ARG	177	32.347	52.860	-15.912	1.00196.21	C
ATOM	1404	NE	ARG	177	32.633	53.344	-17.292	1.00196.21	N
ATOM	1405	CZ	ARG	177	33.773	52.972	-17.944	1.00196.21	C
ATOM	1406	NH1	ARG	177	34.703	52.192	-17.318	1.00196.21	N
ATOM	1407	NH2	ARG	177	33.983	53.387	-19.227	1.00196.21	N
ATOM	1408	C	ARG	177	31.281	56.754	-16.445	1.00196.21	C
ATOM	1409	O	ARG	177	30.400	57.285	-15.778	1.00196.21	O
ATOM	1410	N	GLY	178	31.245	56.713	-17.792	1.00 60.14	N
ATOM	1411	CA	GLY	178	30.211	57.397	-18.510	1.00 60.14	C
ATOM	1412	C	GLY	178	30.772	58.194	-19.644	1.00 60.14	C
ATOM	1413	O	GLY	178	30.217	58.106	-20.738	1.00 60.14	O
ATOM	1414	N	TRP	179	31.896	58.924	-19.447	1.00 99.25	N
ATOM	1415	CA	TRP	179	32.457	59.747	-20.492	1.00 99.25	C
ATOM	1416	CB	TRP	179	33.261	58.925	-21.510	1.00 99.25	C
ATOM	1417	CG	TRP	179	34.530	58.410	-20.879	1.00 99.25	C
ATOM	1418	CD2	TRP	179	35.075	57.090	-21.060	1.00 99.25	C
ATOM	1419	CD1	TRP	179	35.359	59.045	-20.001	1.00 99.25	C
ATOM	1420	NE1	TRP	179	36.384	58.210	-19.626	1.00 99.25	N
ATOM	1421	CE2	TRP	179	36.214	57.002	-20.268	1.00 99.25	C
ATOM	1422	CE3	TRP	179	34.642	56.035	-21.814	1.00 99.25	C
ATOM	1423	CZ2	TRP	179	36.956	55.854	-20.220	1.00 99.25	C
ATOM	1424	CZ3	TRP	179	35.394	54.883	-21.769	1.00 99.25	C
ATOM	1425	CH2	TRP	179	36.529	54.794	-20.987	1.00 99.25	C
ATOM	1426	C	TRP	179	31.346	60.522	-21.138	1.00 99.25	C
ATOM	1427	O	TRP	179	30.924	60.242	-22.259	1.00 99.25	O
ATOM	1428	N	LYS	180	30.834	61.511	-20.387	1.00152.79	N
ATOM	1429	CA	LYS	180	29.709	62.342	-20.707	1.00152.79	C
ATOM	1430	CB	LYS	180	29.599	62.699	-22.199	1.00152.79	C
ATOM	1431	CG	LYS	180	30.646	63.710	-22.664	1.00152.79	C
ATOM	1432	CD	LYS	180	32.066	63.149	-22.677	1.00152.79	C
ATOM	1433	CE	LYS	180	32.299	62.138	-23.798	1.00152.79	C
ATOM	1434	NZ	LYS	180	33.715	61.707	-23.806	1.00152.79	N
ATOM	1435	C	LYS	180	28.428	61.661	-20.308	1.00152.79	C
ATOM	1436	O	LYS	180	27.391	62.319	-20.233	1.00152.79	O
ATOM	1437	N	LEU	181	28.434	60.330	-20.077	1.00148.84	N
ATOM	1438	CA	LEU	181	27.307	59.644	-19.491	1.00148.84	C
ATOM	1439	CB	LEU	181	27.382	58.118	-19.690	1.00148.84	C
ATOM	1440	CG	LEU	181	26.241	57.313	-19.031	1.00148.84	C
ATOM	1441	CD1	LEU	181	26.405	57.194	-17.508	1.00148.84	C
ATOM	1442	CD2	LEU	181	24.874	57.890	-19.414	1.00148.84	C
ATOM	1443	C	LEU	181	27.383	59.914	-18.038	1.00148.84	C
ATOM	1444	O	LEU	181	26.402	60.171	-17.343	1.00148.84	O
ATOM	1445	N	THR	182	28.629	59.844	-17.554	1.00158.78	N
ATOM	1446	CA	THR	182	28.945	60.123	-16.197	1.00158.78	C
ATOM	1447	CB	THR	182	30.389	59.971	-15.899	1.00158.78	C
ATOM	1448	OG1	THR	182	30.518	59.732	-14.512	1.00158.78	O
ATOM	1449	CG2	THR	182	31.178	61.214	-16.340	1.00158.78	C
ATOM	1450	C	THR	182	28.661	61.570	-16.089	1.00158.78	C
ATOM	1451	O	THR	182	28.531	62.117	-15.002	1.00158.78	O
ATOM	1452	N	LEU	183	28.737	62.245	-17.246	1.00 91.39	N
ATOM	1453	CA	LEU	183	28.403	63.621	-17.365	1.00 91.39	C
ATOM	1454	CB	LEU	183	28.896	64.291	-18.653	1.00 91.39	C
ATOM	1455	CG	LEU	183	28.513	65.780	-18.705	1.00 91.39	C
ATOM	1456	CD1	LEU	183	29.157	66.553	-17.539	1.00 91.39	C
ATOM	1457	CD2	LEU	183	28.822	66.399	-20.076	1.00 91.39	C
ATOM	1458	C	LEU	183	26.928	63.738	-17.334	1.00 91.39	C
ATOM	1459	O	LEU	183	26.411	64.776	-16.943	1.00 91.39	O
ATOM	1460	N	VAL	184	26.195	62.720	-17.816	1.00 56.74	N
ATOM	1461	CA	VAL	184	24.774	62.789	-17.692	1.00 56.74	C
ATOM	1462	CB	VAL	184	24.069	61.542	-18.140	1.00 56.74	C
ATOM	1463	CG1	VAL	184	22.566	61.697	-17.845	1.00 56.74	C
ATOM	1464	CG2	VAL	184	24.393	61.292	-19.623	1.00 56.74	C
ATOM	1465	C	VAL	184	24.573	62.894	-16.224	1.00 56.74	C
ATOM	1466	O	VAL	184	23.742	63.673	-15.759	1.00 56.74	O
ATOM	1467	N	ILE	185	25.368	62.126	-15.446	1.00225.96	N
ATOM	1468	CA	ILE	185	25.139	62.225	-14.038	1.00225.96	C
ATOM	1469	CB	ILE	185	25.823	61.230	-13.123	1.00225.96	C
ATOM	1470	CG1	ILE	185	27.243	61.560	-12.703	1.00225.96	C
ATOM	1471	CG2	ILE	185	25.845	59.906	-13.868	1.00225.96	C
ATOM	1472	CD1	ILE	185	27.823	60.486	-11.785	1.00225.96	C
ATOM	1473	C	ILE	185	25.526	63.599	-13.619	1.00225.96	C

ATOM	1474	O	ILE	185	24.692	64.307	-13.072	1.00	225.96	O
ATOM	1475	N	LEU	186	26.735	64.067	-14.002	1.00	87.33	N
ATOM	1476	CA	LEU	186	27.245	65.333	-13.543	1.00	87.33	C
ATOM	1477	CB	LEU	186	28.523	65.785	-14.273	1.00	87.33	C
ATOM	1478	CG	LEU	186	29.767	64.914	-14.023	1.00	87.33	C
ATOM	1479	CD1	LEU	186	30.981	65.456	-14.799	1.00	87.33	C
ATOM	1480	CD2	LEU	186	30.050	64.765	-12.523	1.00	87.33	C
ATOM	1481	C	LEU	186	26.232	66.393	-13.858	1.00	87.33	C
ATOM	1482	O	LEU	186	25.982	67.287	-13.056	1.00	87.33	O
ATOM	1483	N	ALA	187	25.644	66.345	-15.064	1.00	93.54	N
ATOM	1484	CA	ALA	187	24.691	67.348	-15.408	1.00	93.54	C
ATOM	1485	CB	ALA	187	24.282	67.273	-16.886	1.00	93.54	C
ATOM	1486	C	ALA	187	23.426	67.245	-14.613	1.00	93.54	C
ATOM	1487	O	ALA	187	23.198	68.030	-13.700	1.00	93.54	O
ATOM	1488	N	ILE	188	22.630	66.183	-14.822	1.00	87.39	N
ATOM	1489	CA	ILE	188	21.347	66.161	-14.180	1.00	87.39	C
ATOM	1490	CB	ILE	188	20.525	64.999	-14.660	1.00	87.39	C
ATOM	1491	CG1	ILE	188	21.297	63.690	-14.430	1.00	87.39	C
ATOM	1492	CG2	ILE	188	20.142	65.245	-16.129	1.00	87.39	C
ATOM	1493	CD1	ILE	188	20.460	62.431	-14.581	1.00	87.39	C
ATOM	1494	C	ILE	188	21.531	66.073	-12.701	1.00	87.39	C
ATOM	1495	O	ILE	188	21.000	66.884	-11.946	1.00	87.39	O
ATOM	1496	N	SER	189	22.344	65.108	-12.246	1.00	96.95	N
ATOM	1497	CA	SER	189	22.500	64.918	-10.841	1.00	96.95	C
ATOM	1498	CB	SER	189	23.316	63.655	-10.473	1.00	96.95	C
ATOM	1499	OG	SER	189	22.652	62.485	-10.929	1.00	96.95	O
ATOM	1500	C	SER	189	23.071	66.164	-10.219	1.00	96.95	C
ATOM	1501	O	SER	189	22.334	66.798	-9.470	1.00	96.95	O
ATOM	1502	N	PRO	190	24.267	66.640	-10.505	1.00	100.45	N
ATOM	1503	CA	PRO	190	24.694	67.830	-9.820	1.00	100.45	C
ATOM	1504	CD	PRO	190	25.411	65.773	-10.767	1.00	100.45	C
ATOM	1505	CB	PRO	190	26.164	68.015	-10.183	1.00	100.45	C
ATOM	1506	CG	PRO	190	26.658	66.565	-10.333	1.00	100.45	C
ATOM	1507	C	PRO	190	23.810	69.024	-10.041	1.00	100.45	C
ATOM	1508	O	PRO	190	23.840	69.914	-9.194	1.00	100.45	O
ATOM	1509	N	VAL	191	23.054	69.110	-11.158	1.00	124.24	N
ATOM	1510	CA	VAL	191	22.178	70.245	-11.290	1.00	124.24	C
ATOM	1511	CB	VAL	191	21.605	70.487	-12.663	1.00	124.24	C
ATOM	1512	CG1	VAL	191	22.760	70.734	-13.642	1.00	124.24	C
ATOM	1513	CG2	VAL	191	20.648	69.356	-13.055	1.00	124.24	C
ATOM	1514	C	VAL	191	21.031	70.121	-10.333	1.00	124.24	C
ATOM	1515	O	VAL	191	20.669	71.092	-9.673	1.00	124.24	O
ATOM	1516	N	LEU	192	20.427	68.918	-10.217	1.00	64.46	N
ATOM	1517	CA	LEU	192	19.311	68.765	-9.329	1.00	64.46	C
ATOM	1518	CB	LEU	192	18.761	67.329	-9.280	1.00	64.46	C
ATOM	1519	CG	LEU	192	18.142	66.835	-10.599	1.00	64.46	C
ATOM	1520	CD1	LEU	192	17.614	65.398	-10.455	1.00	64.46	C
ATOM	1521	CD2	LEU	192	17.070	67.809	-11.116	1.00	64.46	C
ATOM	1522	C	LEU	192	19.836	69.057	-7.966	1.00	64.46	C
ATOM	1523	O	LEU	192	19.238	69.808	-7.200	1.00	64.46	O
ATOM	1524	N	GLY	193	21.033	68.518	-7.672	1.00	51.64	N
ATOM	1525	CA	GLY	193	21.657	68.654	-6.392	1.00	51.64	C
ATOM	1526	C	GLY	193	21.797	70.113	-6.130	1.00	51.64	C
ATOM	1527	O	GLY	193	21.782	70.538	-4.977	1.00	51.64	O
ATOM	1528	N	LEU	194	22.004	70.908	-7.196	1.00	55.49	N
ATOM	1529	CA	LEU	194	22.127	72.327	-7.048	1.00	55.49	C
ATOM	1530	CB	LEU	194	22.427	73.051	-8.373	1.00	55.49	C
ATOM	1531	CG	LEU	194	23.788	72.682	-8.990	1.00	55.49	C
ATOM	1532	CD1	LEU	194	24.064	73.503	-10.260	1.00	55.49	C
ATOM	1533	CD2	LEU	194	24.917	72.784	-7.953	1.00	55.49	C
ATOM	1534	C	LEU	194	20.825	72.868	-6.547	1.00	55.49	C
ATOM	1535	O	LEU	194	20.800	73.661	-5.610	1.00	55.49	O
ATOM	1536	N	SER	195	19.697	72.432	-7.137	1.00	96.78	N
ATOM	1537	CA	SER	195	18.416	72.945	-6.736	1.00	96.78	C
ATOM	1538	CB	SER	195	17.249	72.239	-7.441	1.00	96.78	C
ATOM	1539	OG	SER	195	17.408	72.310	-8.846	1.00	96.78	O
ATOM	1540	C	SER	195	18.240	72.610	-5.295	1.00	96.78	C
ATOM	1541	O	SER	195	17.768	73.428	-4.508	1.00	96.78	O
ATOM	1542	N	ALA	196	18.602	71.371	-4.921	1.00	56.81	N
ATOM	1543	CA	ALA	196	18.429	70.935	-3.571	1.00	56.81	C
ATOM	1544	CB	ALA	196	18.806	69.458	-3.373	1.00	56.81	C
ATOM	1545	C	ALA	196	19.294	71.749	-2.663	1.00	56.81	C
ATOM	1546	O	ALA	196	18.840	72.234	-1.631	1.00	56.81	O
ATOM	1547	N	ALA	197	20.567	71.960	-3.035	1.00	56.09	N

ATOM	1548	CA	ALA	197	21.440	72.678	-2.155	1.00	56.09	C
ATOM	1549	CB	ALA	197	22.866	72.807	-2.717	1.00	56.09	C
ATOM	1550	C	ALA	197	20.903	74.062	-1.973	1.00	56.09	C
ATOM	1551	O	ALA	197	20.821	74.547	-0.848	1.00	56.09	O
ATOM	1552	N	VAL	198	20.521	74.735	-3.077	1.00	124.56	N
ATOM	1553	CA	VAL	198	20.058	76.091	-3.013	1.00	124.56	C
ATOM	1554	CB	VAL	198	19.924	76.728	-4.372	1.00	124.56	C
ATOM	1555	CG1	VAL	198	18.968	75.899	-5.249	1.00	124.56	C
ATOM	1556	CG2	VAL	198	19.462	78.181	-4.171	1.00	124.56	C
ATOM	1557	C	VAL	198	18.745	76.234	-2.306	1.00	124.56	C
ATOM	1558	O	VAL	198	18.674	76.910	-1.291	1.00	124.56	O
ATOM	1559	N	TRP	199	17.674	75.561	-2.766	1.00	86.20	N
ATOM	1560	CA	TRP	199	16.389	75.828	-2.181	1.00	86.20	C
ATOM	1561	CB	TRP	199	15.216	75.090	-2.870	1.00	86.20	C
ATOM	1562	CG	TRP	199	13.833	75.610	-2.512	1.00	86.20	C
ATOM	1563	CD2	TRP	199	12.895	75.004	-1.601	1.00	86.20	C
ATOM	1564	CD1	TRP	199	13.213	76.720	-3.008	1.00	86.20	C
ATOM	1565	NE1	TRP	199	11.956	76.845	-2.466	1.00	86.20	N
ATOM	1566	CE2	TRP	199	11.746	75.796	-1.598	1.00	86.20	C
ATOM	1567	CE3	TRP	199	12.979	73.879	-0.830	1.00	86.20	C
ATOM	1568	CZ2	TRP	199	10.662	75.477	-0.830	1.00	86.20	C
ATOM	1569	CZ3	TRP	199	11.885	73.566	-0.051	1.00	86.20	C
ATOM	1570	CH2	TRP	199	10.748	74.347	-0.049	1.00	86.20	C
ATOM	1571	C	TRP	199	16.419	75.410	-0.748	1.00	86.20	C
ATOM	1572	O	TRP	199	16.023	76.172	0.129	1.00	86.20	O
ATOM	1573	N	ALA	200	16.921	74.194	-0.462	1.00	59.68	N
ATOM	1574	CA	ALA	200	16.908	73.721	0.889	1.00	59.68	C
ATOM	1575	CB	ALA	200	17.458	72.294	1.030	1.00	59.68	C
ATOM	1576	C	ALA	200	17.743	74.620	1.757	1.00	59.68	C
ATOM	1577	O	ALA	200	17.310	75.037	2.828	1.00	59.68	O
ATOM	1578	N	LYS	201	18.959	74.973	1.307	1.00	109.80	N
ATOM	1579	CA	LYS	201	19.833	75.795	2.098	1.00	109.80	C
ATOM	1580	CB	LYS	201	21.244	75.928	1.505	1.00	109.80	C
ATOM	1581	CG	LYS	201	22.033	74.624	1.608	1.00	109.80	C
ATOM	1582	CD	LYS	201	22.150	74.105	3.043	1.00	109.80	C
ATOM	1583	CE	LYS	201	22.892	72.774	3.150	1.00	109.80	C
ATOM	1584	NZ	LYS	201	22.932	72.337	4.563	1.00	109.80	N
ATOM	1585	C	LYS	201	19.237	77.157	2.237	1.00	109.80	C
ATOM	1586	O	LYS	201	19.425	77.815	3.259	1.00	109.80	O
ATOM	1587	N	ILE	202	18.517	77.629	1.203	1.00	54.76	N
ATOM	1588	CA	ILE	202	17.938	78.935	1.278	1.00	54.76	C
ATOM	1589	CB	ILE	202	17.103	79.321	0.090	1.00	54.76	C
ATOM	1590	CG1	ILE	202	17.960	79.547	-1.162	1.00	54.76	C
ATOM	1591	CG2	ILE	202	16.270	80.549	0.489	1.00	54.76	C
ATOM	1592	CD1	ILE	202	17.126	79.692	-2.434	1.00	54.76	C
ATOM	1593	C	ILE	202	17.000	78.905	2.426	1.00	54.76	C
ATOM	1594	O	ILE	202	17.031	79.780	3.287	1.00	54.76	O
ATOM	1595	N	LEU	203	16.156	77.862	2.475	1.00	118.99	N
ATOM	1596	CA	LEU	203	15.222	77.739	3.540	1.00	118.99	C
ATOM	1597	CB	LEU	203	14.233	76.568	3.375	1.00	118.99	C
ATOM	1598	CG	LEU	203	13.097	76.837	2.366	1.00	118.99	C
ATOM	1599	CD1	LEU	203	12.123	77.899	2.902	1.00	118.99	C
ATOM	1600	CD2	LEU	203	13.633	77.201	0.976	1.00	118.99	C
ATOM	1601	C	LEU	203	15.968	77.551	4.818	1.00	118.99	C
ATOM	1602	O	LEU	203	15.563	78.092	5.833	1.00	118.99	O
ATOM	1603	N	SER	204	17.084	76.805	4.836	1.00	40.26	N
ATOM	1604	CA	SER	204	17.766	76.573	6.084	1.00	40.26	C
ATOM	1605	CB	SER	204	19.055	75.753	5.907	1.00	40.26	C
ATOM	1606	OG	SER	204	18.744	74.444	5.455	1.00	40.26	O
ATOM	1607	C	SER	204	18.150	77.882	6.715	1.00	40.26	C
ATOM	1608	O	SER	204	17.891	78.106	7.896	1.00	40.26	O
ATOM	1609	N	SER	205	18.776	78.793	5.947	1.00	33.33	N
ATOM	1610	CA	SER	205	19.163	80.057	6.509	1.00	33.33	C
ATOM	1611	CB	SER	205	19.953	80.925	5.520	1.00	33.33	C
ATOM	1612	OG	SER	205	19.134	81.253	4.409	1.00	33.33	O
ATOM	1613	C	SER	205	17.903	80.784	6.856	1.00	33.33	C
ATOM	1614	O	SER	205	17.825	81.508	7.845	1.00	33.33	O
ATOM	1615	N	PHE	206	16.861	80.545	6.046	1.00	77.42	N
ATOM	1616	CA	PHE	206	15.558	81.135	6.150	1.00	77.42	C
ATOM	1617	CB	PHE	206	14.659	80.552	5.039	1.00	77.42	C
ATOM	1618	CG	PHE	206	13.258	81.042	5.098	1.00	77.42	C
ATOM	1619	CD1	PHE	206	12.895	82.231	4.511	1.00	77.42	C
ATOM	1620	CD2	PHE	206	12.296	80.282	5.722	1.00	77.42	C
ATOM	1621	CE1	PHE	206	11.590	82.662	4.563	1.00	77.42	C

ATOM	1622	CE2	PHE	206	10.991	80.707	5.778	1.00	77.42	C
ATOM	1623	CZ	PHE	206	10.638	81.901	5.198	1.00	77.42	C
ATOM	1624	C	PHE	206	15.002	80.778	7.500	1.00	77.42	C
ATOM	1625	O	PHE	206	14.369	81.604	8.153	1.00	77.42	O
ATOM	1626	N	THR	207	15.223	79.525	7.946	1.00	49.80	N
ATOM	1627	CA	THR	207	14.748	79.035	9.203	1.00	49.80	C
ATOM	1628	CB	THR	207	15.069	77.586	9.442	1.00	49.80	C
ATOM	1629	OG1	THR	207	14.486	76.773	8.433	1.00	49.80	O
ATOM	1630	CG2	THR	207	14.523	77.186	10.824	1.00	49.80	C
ATOM	1631	C	THR	207	15.425	79.819	10.271	1.00	49.80	C
ATOM	1632	O	THR	207	14.792	80.253	11.231	1.00	49.80	O
ATOM	1633	N	ASP	208	16.740	80.048	10.104	1.00	54.62	N
ATOM	1634	CA	ASP	208	17.505	80.740	11.097	1.00	54.62	C
ATOM	1635	CB	ASP	208	18.949	80.992	10.637	1.00	54.62	C
ATOM	1636	CG	ASP	208	19.620	79.645	10.425	1.00	54.62	C
ATOM	1637	OD1	ASP	208	19.288	78.694	11.182	1.00	54.62	O
ATOM	1638	OD2	ASP	208	20.468	79.548	9.499	1.00	54.62	O
ATOM	1639	C	ASP	208	16.883	82.085	11.277	1.00	54.62	C
ATOM	1640	O	ASP	208	16.557	82.477	12.395	1.00	54.62	O
ATOM	1641	N	LYS	209	16.630	82.791	10.159	1.00	135.68	N
ATOM	1642	CA	LYS	209	16.079	84.113	10.212	1.00	135.68	C
ATOM	1643	CB	LYS	209	15.741	84.674	8.822	1.00	135.68	C
ATOM	1644	CG	LYS	209	14.681	85.771	8.908	1.00	135.68	C
ATOM	1645	CD	LYS	209	15.102	86.988	9.727	1.00	135.68	C
ATOM	1646	CE	LYS	209	13.922	87.635	10.455	1.00	135.68	C
ATOM	1647	NZ	LYS	209	12.726	87.633	9.584	1.00	135.68	N
ATOM	1648	C	LYS	209	14.798	84.045	10.965	1.00	135.68	C
ATOM	1649	O	LYS	209	14.484	84.930	11.760	1.00	135.68	O
ATOM	1650	N	GLU	210	14.022	82.977	10.740	1.00	96.38	N
ATOM	1651	CA	GLU	210	12.776	82.865	11.425	1.00	96.38	C
ATOM	1652	CB	GLU	210	12.004	81.583	11.070	1.00	96.38	C
ATOM	1653	CG	GLU	210	11.422	81.602	9.657	1.00	96.38	C
ATOM	1654	CD	GLU	210	10.218	82.529	9.675	1.00	96.38	C
ATOM	1655	OE1	GLU	210	10.189	83.425	10.558	1.00	96.38	O
ATOM	1656	OE2	GLU	210	9.313	82.353	8.816	1.00	96.38	O
ATOM	1657	C	GLU	210	13.067	82.812	12.889	1.00	96.38	C
ATOM	1658	O	GLU	210	12.373	83.439	13.686	1.00	96.38	O
ATOM	1659	N	LEU	211	14.120	82.065	13.270	1.00	71.58	N
ATOM	1660	CA	LEU	211	14.482	81.866	14.645	1.00	71.58	C
ATOM	1661	CB	LEU	211	15.615	80.837	14.807	1.00	71.58	C
ATOM	1662	CG	LEU	211	15.221	79.428	14.318	1.00	71.58	C
ATOM	1663	CD1	LEU	211	16.364	78.420	14.518	1.00	71.58	C
ATOM	1664	CD2	LEU	211	13.896	78.967	14.949	1.00	71.58	C
ATOM	1665	C	LEU	211	14.907	83.160	15.294	1.00	71.58	C
ATOM	1666	O	LEU	211	14.571	83.394	16.453	1.00	71.58	O
ATOM	1667	N	LEU	212	15.660	84.032	14.583	1.00	87.00	N
ATOM	1668	CA	LEU	212	16.132	85.265	15.169	1.00	87.00	C
ATOM	1669	CB	LEU	212	16.949	86.159	14.215	1.00	87.00	C
ATOM	1670	CG	LEU	212	18.375	85.689	13.862	1.00	87.00	C
ATOM	1671	CD1	LEU	212	18.380	84.420	13.005	1.00	87.00	C
ATOM	1672	CD2	LEU	212	19.172	86.835	13.218	1.00	87.00	C
ATOM	1673	C	LEU	212	14.961	86.107	15.547	1.00	87.00	C
ATOM	1674	O	LEU	212	14.887	86.627	16.660	1.00	87.00	O
ATOM	1675	N	ALA	213	13.993	86.237	14.628	1.00	44.28	N
ATOM	1676	CA	ALA	213	12.846	87.051	14.891	1.00	44.28	C
ATOM	1677	CB	ALA	213	11.813	87.017	13.752	1.00	44.28	C
ATOM	1678	C	ALA	213	12.200	86.462	16.105	1.00	44.28	C
ATOM	1679	O	ALA	213	11.674	87.176	16.955	1.00	44.28	O
ATOM	1680	N	TYR	214	12.249	85.122	16.209	1.00	162.35	N
ATOM	1681	CA	TYR	214	11.694	84.380	17.301	1.00	162.35	C
ATOM	1682	CB	TYR	214	11.959	82.870	17.082	1.00	162.35	C
ATOM	1683	CG	TYR	214	11.982	82.070	18.342	1.00	162.35	C
ATOM	1684	CD1	TYR	214	10.844	81.518	18.874	1.00	162.35	C
ATOM	1685	CD2	TYR	214	13.180	81.850	18.986	1.00	162.35	C
ATOM	1686	CE1	TYR	214	10.902	80.773	20.029	1.00	162.35	C
ATOM	1687	CE2	TYR	214	13.245	81.106	20.141	1.00	162.35	C
ATOM	1688	CZ	TYR	214	12.100	80.564	20.667	1.00	162.35	C
ATOM	1689	OH	TYR	214	12.147	79.798	21.850	1.00	162.35	O
ATOM	1690	C	TYR	214	12.307	84.832	18.597	1.00	162.35	C
ATOM	1691	O	TYR	214	11.594	85.107	19.561	1.00	162.35	O
ATOM	1692	N	ALA	215	13.640	84.974	18.657	1.00	45.35	N
ATOM	1693	CA	ALA	215	14.281	85.328	19.895	1.00	45.35	C
ATOM	1694	CB	ALA	215	15.812	85.386	19.763	1.00	45.35	C
ATOM	1695	C	ALA	215	13.823	86.675	20.353	1.00	45.35	C

ATOM	1696	O	ALA	215	13.578	86.889	21.541	1.00	45.35	O
ATOM	1697	N	LYS	216	13.698	87.625	19.414	1.00	199.59	N
ATOM	1698	CA	LYS	216	13.356	88.975	19.747	1.00	199.59	C
ATOM	1699	CB	LYS	216	13.347	89.864	18.500	1.00	199.59	C
ATOM	1700	CG	LYS	216	14.595	89.632	17.649	1.00	199.59	C
ATOM	1701	CD	LYS	216	15.891	89.657	18.459	1.00	199.59	C
ATOM	1702	CE	LYS	216	15.911	90.754	19.518	1.00	199.59	C
ATOM	1703	NZ	LYS	216	15.551	92.038	18.886	1.00	199.59	N
ATOM	1704	C	LYS	216	11.985	88.996	20.343	1.00	199.59	C
ATOM	1705	O	LYS	216	11.731	89.651	21.353	1.00	199.59	O
ATOM	1706	N	ALA	217	11.068	88.229	19.738	1.00	55.60	N
ATOM	1707	CA	ALA	217	9.700	88.205	20.149	1.00	55.60	C
ATOM	1708	CB	ALA	217	8.862	87.247	19.288	1.00	55.60	C
ATOM	1709	C	ALA	217	9.647	87.733	21.569	1.00	55.60	C
ATOM	1710	O	ALA	217	8.793	88.166	22.340	1.00	55.60	O
ATOM	1711	N	GLY	218	10.553	86.803	21.929	1.00	46.88	N
ATOM	1712	CA	GLY	218	10.642	86.206	23.237	1.00	46.88	C
ATOM	1713	C	GLY	218	11.006	87.206	24.308	1.00	46.88	C
ATOM	1714	O	GLY	218	10.573	87.075	25.452	1.00	46.88	O
ATOM	1715	N	ALA	219	11.894	88.176	24.012	1.00	39.86	N
ATOM	1716	CA	ALA	219	12.264	89.162	24.999	1.00	39.86	C
ATOM	1717	CB	ALA	219	13.390	90.093	24.516	1.00	39.86	C
ATOM	1718	C	ALA	219	11.068	90.011	25.295	1.00	39.86	C
ATOM	1719	O	ALA	219	10.783	90.339	26.447	1.00	39.86	O
ATOM	1720	N	VAL	220	10.333	90.374	24.230	1.00	74.60	N
ATOM	1721	CA	VAL	220	9.136	91.159	24.314	1.00	74.60	C
ATOM	1722	CB	VAL	220	8.523	91.454	22.980	1.00	74.60	C
ATOM	1723	CG1	VAL	220	7.212	92.228	23.209	1.00	74.60	C
ATOM	1724	CG2	VAL	220	9.555	92.201	22.122	1.00	74.60	C
ATOM	1725	C	VAL	220	8.172	90.306	25.061	1.00	74.60	C
ATOM	1726	O	VAL	220	7.128	90.755	25.527	1.00	74.60	O
ATOM	1727	N	ALA	221	8.440	88.996	25.050	1.00	106.09	N
ATOM	1728	CA	ALA	221	7.667	88.058	25.797	1.00	106.09	C
ATOM	1729	CB	ALA	221	7.894	86.580	25.417	1.00	106.09	C
ATOM	1730	C	ALA	221	7.922	88.235	27.277	1.00	106.09	C
ATOM	1731	O	ALA	221	7.119	87.766	28.078	1.00	106.09	O
ATOM	1732	N	GLU	222	9.121	88.732	27.682	1.00	164.59	N
ATOM	1733	CA	GLU	222	9.478	88.883	29.083	1.00	164.59	C
ATOM	1734	CB	GLU	222	11.003	88.938	29.295	1.00	164.59	C
ATOM	1735	CG	GLU	222	11.707	87.588	29.114	1.00	164.59	C
ATOM	1736	CD	GLU	222	11.432	86.730	30.345	1.00	164.59	C
ATOM	1737	OE1	GLU	222	10.644	87.180	31.217	1.00	164.59	O
ATOM	1738	OE2	GLU	222	12.008	85.611	30.429	1.00	164.59	O
ATOM	1739	C	GLU	222	8.897	90.037	29.891	1.00	164.59	C
ATOM	1740	O	GLU	222	8.064	89.812	30.767	1.00	164.59	O
ATOM	1741	N	GLU	223	9.266	91.312	29.591	1.00	295.58	N
ATOM	1742	CA	GLU	223	8.898	92.462	30.412	1.00	295.58	C
ATOM	1743	CB	GLU	223	7.477	93.014	30.163	1.00	295.58	C
ATOM	1744	CG	GLU	223	6.396	91.960	29.918	1.00	295.58	C
ATOM	1745	CD	GLU	223	6.420	91.661	28.423	1.00	295.58	C
ATOM	1746	OE1	GLU	223	7.338	92.184	27.738	1.00	295.58	O
ATOM	1747	OE2	GLU	223	5.526	90.912	27.944	1.00	295.58	O
ATOM	1748	C	GLU	223	9.153	92.213	31.888	1.00	295.58	C
ATOM	1749	O	GLU	223	9.706	91.179	32.251	1.00	295.58	O
ATOM	1750	N	VAL	224	8.825	93.197	32.776	1.00	121.50	N
ATOM	1751	CA	VAL	224	9.081	93.082	34.201	1.00	121.50	C
ATOM	1752	CB	VAL	224	9.057	94.384	34.946	1.00	121.50	C
ATOM	1753	CG1	VAL	224	9.142	94.082	36.453	1.00	121.50	C
ATOM	1754	CG2	VAL	224	10.213	95.254	34.426	1.00	121.50	C
ATOM	1755	C	VAL	224	8.084	92.174	34.856	1.00	121.50	C
ATOM	1756	O	VAL	224	6.909	92.152	34.498	1.00	121.50	O
ATOM	1757	N	LEU	225	8.613	91.236	35.669	1.00	214.10	N
ATOM	1758	CA	LEU	225	7.915	90.294	36.503	1.00	214.10	C
ATOM	1759	CB	LEU	225	8.444	88.872	36.304	1.00	214.10	C
ATOM	1760	CG	LEU	225	8.470	88.513	34.804	1.00	214.10	C
ATOM	1761	CD1	LEU	225	7.127	88.829	34.126	1.00	214.10	C
ATOM	1762	CD2	LEU	225	9.671	89.150	34.090	1.00	214.10	C
ATOM	1763	C	LEU	225	7.841	90.612	37.979	1.00	214.10	C
ATOM	1764	O	LEU	225	7.072	89.971	38.692	1.00	214.10	O
ATOM	1765	N	ALA	226	8.740	91.479	38.498	1.00	92.84	N
ATOM	1766	CA	ALA	226	8.910	91.743	39.915	1.00	92.84	C
ATOM	1767	CB	ALA	226	10.359	92.088	40.299	1.00	92.84	C
ATOM	1768	C	ALA	226	8.052	92.879	40.392	1.00	92.84	C
ATOM	1769	O	ALA	226	7.146	93.324	39.692	1.00	92.84	O

ATOM	1770	N	ALA	227	8.322	93.346	41.642	1.00	83.94	N
ATOM	1771	CA	ALA	227	7.598	94.415	42.284	1.00	83.94	C
ATOM	1772	CB	ALA	227	7.569	95.707	41.452	1.00	83.94	C
ATOM	1773	C	ALA	227	6.207	93.925	42.441	1.00	83.94	C
ATOM	1774	O	ALA	227	5.252	94.680	42.600	1.00	83.94	O
ATOM	1775	N	ILE	228	6.106	92.599	42.517	1.00	148.28	N
ATOM	1776	CA	ILE	228	4.887	91.862	42.519	1.00	148.28	C
ATOM	1777	CB	ILE	228	5.157	90.382	42.628	1.00	148.28	C
ATOM	1778	CG1	ILE	228	3.941	89.516	42.231	1.00	148.28	C
ATOM	1779	CG2	ILE	228	5.701	90.120	44.039	1.00	148.28	C
ATOM	1780	CD1	ILE	228	2.719	89.623	43.140	1.00	148.28	C
ATOM	1781	C	ILE	228	4.020	92.297	43.650	1.00	148.28	C
ATOM	1782	O	ILE	228	2.815	92.336	43.461	1.00	148.28	O
ATOM	1783	N	ARG	229	4.556	92.636	44.841	1.00	131.92	N
ATOM	1784	CA	ARG	229	3.674	92.969	45.935	1.00	131.92	C
ATOM	1785	CB	ARG	229	4.439	93.379	47.207	1.00	131.92	C
ATOM	1786	CG	ARG	229	3.523	93.649	48.403	1.00	131.92	C
ATOM	1787	CD	ARG	229	4.266	93.781	49.735	1.00	131.92	C
ATOM	1788	NE	ARG	229	4.801	95.168	49.827	1.00	131.92	N
ATOM	1789	CZ	ARG	229	4.811	95.810	51.030	1.00	131.92	C
ATOM	1790	NH1	ARG	229	4.299	95.198	52.139	1.00	131.92	N
ATOM	1791	NH2	ARG	229	5.331	97.067	51.129	1.00	131.92	N
ATOM	1792	C	ARG	229	2.805	94.115	45.519	1.00	131.92	C
ATOM	1793	O	ARG	229	1.585	94.060	45.667	1.00	131.92	O
ATOM	1794	N	THR	230	3.401	95.159	44.915	1.00	125.72	N
ATOM	1795	CA	THR	230	2.605	96.273	44.492	1.00	125.72	C
ATOM	1796	CB	THR	230	3.406	97.411	43.925	1.00	125.72	C
ATOM	1797	OG1	THR	230	4.125	96.999	42.773	1.00	125.72	O
ATOM	1798	CG2	THR	230	4.371	97.916	45.007	1.00	125.72	C
ATOM	1799	C	THR	230	1.667	95.783	43.437	1.00	125.72	C
ATOM	1800	O	THR	230	0.545	96.270	43.303	1.00	125.72	O
ATOM	1801	N	VAL	231	2.139	94.815	42.638	1.00	86.62	N
ATOM	1802	CA	VAL	231	1.403	94.251	41.541	1.00	86.62	C
ATOM	1803	CB	VAL	231	2.248	93.372	40.666	1.00	86.62	C
ATOM	1804	CG1	VAL	231	1.361	92.788	39.551	1.00	86.62	C
ATOM	1805	CG2	VAL	231	3.432	94.205	40.146	1.00	86.62	C
ATOM	1806	C	VAL	231	0.218	93.433	41.998	1.00	86.62	C
ATOM	1807	O	VAL	231	-0.765	93.315	41.272	1.00	86.62	O
ATOM	1808	N	ILE	232	0.295	92.779	43.170	1.00	130.02	N
ATOM	1809	CA	ILE	232	-0.769	91.940	43.632	1.00	130.02	C
ATOM	1810	CB	ILE	232	-0.368	91.122	44.832	1.00	130.02	C
ATOM	1811	CG1	ILE	232	-1.312	89.924	44.991	1.00	130.02	C
ATOM	1812	CG2	ILE	232	-0.273	92.022	46.073	1.00	130.02	C
ATOM	1813	CD1	ILE	232	-0.791	88.884	45.975	1.00	130.02	C
ATOM	1814	C	ILE	232	-1.934	92.829	43.941	1.00	130.02	C
ATOM	1815	O	ILE	232	-3.082	92.514	43.635	1.00	130.02	O
ATOM	1816	N	ALA	233	-1.641	93.980	44.571	1.00	81.33	N
ATOM	1817	CA	ALA	233	-2.591	95.014	44.873	1.00	81.33	C
ATOM	1818	CB	ALA	233	-1.986	96.165	45.698	1.00	81.33	C
ATOM	1819	C	ALA	233	-3.057	95.589	43.569	1.00	81.33	C
ATOM	1820	O	ALA	233	-4.078	96.271	43.499	1.00	81.33	O
ATOM	1821	N	PHE	234	-2.205	95.474	42.536	1.00	107.07	N
ATOM	1822	CA	PHE	234	-2.481	95.940	41.200	1.00	107.07	C
ATOM	1823	CB	PHE	234	-1.204	95.954	40.341	1.00	107.07	C
ATOM	1824	CG	PHE	234	-1.487	96.677	39.070	1.00	107.07	C
ATOM	1825	CD1	PHE	234	-1.696	98.037	39.083	1.00	107.07	C
ATOM	1826	CD2	PHE	234	-1.510	96.007	37.869	1.00	107.07	C
ATOM	1827	CE1	PHE	234	-1.950	98.718	37.916	1.00	107.07	C
ATOM	1828	CE2	PHE	234	-1.763	96.684	36.699	1.00	107.07	C
ATOM	1829	CZ	PHE	234	-1.985	98.041	36.721	1.00	107.07	C
ATOM	1830	C	PHE	234	-3.514	95.066	40.534	1.00	107.07	C
ATOM	1831	O	PHE	234	-4.437	95.578	39.896	1.00	107.07	O
ATOM	1832	N	GLY	235	-3.388	93.723	40.693	1.00	97.50	N
ATOM	1833	CA	GLY	235	-4.308	92.764	40.134	1.00	97.50	C
ATOM	1834	C	GLY	235	-3.582	91.667	39.422	1.00	97.50	C
ATOM	1835	O	GLY	235	-3.728	90.488	39.749	1.00	97.50	O
ATOM	1836	N	GLY	236	-2.752	92.026	38.442	1.00	111.24	N
ATOM	1837	CA	GLY	236	-2.035	91.047	37.704	1.00	111.24	C
ATOM	1838	C	GLY	236	-2.235	91.504	36.328	1.00	111.24	C
ATOM	1839	O	GLY	236	-3.389	91.600	35.901	1.00	111.24	O
ATOM	1840	N	GLN	237	-1.123	91.811	35.622	1.00	192.62	N
ATOM	1841	CA	GLN	237	-1.347	92.285	34.302	1.00	192.62	C
ATOM	1842	CB	GLN	237	-0.075	92.698	33.538	1.00	192.62	C
ATOM	1843	CG	GLN	237	0.365	94.140	33.813	1.00	192.62	C

ATOM	1844	CD	GLN	237	1.051	94.275	35.167	1.00192.62
ATOM	1845	OE1	GLN	237	0.607	93.719	36.171	1.00192.62
ATOM	1846	NE2	GLN	237	2.169	95.052	35.194	1.00192.62
ATOM	1847	C	GLN	237	-2.045	91.148	33.607	1.00192.62
ATOM	1848	O	GLN	237	-3.203	91.291	33.216	1.00192.62
ATOM	1849	N	LYS	238	-1.389	89.970	33.588	1.00195.74
ATOM	1850	CA	LYS	238	-1.872	88.693	33.144	1.00195.74
ATOM	1851	CB	LYS	238	-3.206	88.309	33.804	1.00195.74
ATOM	1852	CG	LYS	238	-3.174	88.276	35.329	1.00195.74
ATOM	1853	CD	LYS	238	-4.577	88.225	35.940	1.00195.74
ATOM	1854	CE	LYS	238	-5.267	89.588	36.037	1.00195.74
ATOM	1855	NZ	LYS	238	-5.758	90.017	34.707	1.00195.74
ATOM	1856	C	LYS	238	-2.141	88.680	31.673	1.00195.74
ATOM	1857	O	LYS	238	-1.888	87.676	31.013	1.00195.74
ATOM	1858	N	LYS	239	-2.768	89.764	31.174	1.00175.90
ATOM	1859	CA	LYS	239	-3.120	90.068	29.820	1.00175.90
ATOM	1860	CB	LYS	239	-4.363	90.974	29.777	1.00175.90
ATOM	1861	CG	LYS	239	-4.940	91.253	28.389	1.00175.90
ATOM	1862	CD	LYS	239	-4.074	92.136	27.491	1.00175.90
ATOM	1863	CE	LYS	239	-4.763	92.507	26.180	1.00175.90
ATOM	1864	NZ	LYS	239	-4.072	93.650	25.545	1.00175.90
ATOM	1865	C	LYS	239	-2.013	90.744	29.073	1.00175.90
ATOM	1866	O	LYS	239	-1.838	90.478	27.890	1.00175.90
ATOM	1867	N	GLU	240	-1.279	91.693	29.702	1.00 82.53
ATOM	1868	CA	GLU	240	-0.238	92.362	28.958	1.00 82.53
ATOM	1869	CB	GLU	240	0.477	93.486	29.727	1.00 82.53
ATOM	1870	CG	GLU	240	-0.380	94.726	29.970	1.00 82.53
ATOM	1871	CD	GLU	240	0.556	95.829	30.449	1.00 82.53
ATOM	1872	OE1	GLU	240	1.690	95.915	29.905	1.00 82.53
ATOM	1873	OE2	GLU	240	0.149	96.602	31.357	1.00 82.53
ATOM	1874	C	GLU	240	0.789	91.329	28.665	1.00 82.53
ATOM	1875	O	GLU	240	1.257	91.200	27.535	1.00 82.53
ATOM	1876	N	LEU	241	1.143	90.547	29.700	1.00184.69
ATOM	1877	CA	LEU	241	2.126	89.516	29.562	1.00184.69
ATOM	1878	CB	LEU	241	2.427	88.771	30.873	1.00184.69
ATOM	1879	CG	LEU	241	1.274	88.821	31.889	1.00184.69
ATOM	1880	CD1	LEU	241	1.470	87.789	33.002	1.00184.69
ATOM	1881	CD2	LEU	241	1.172	90.231	32.489	1.00184.69
ATOM	1882	C	LEU	241	1.629	88.490	28.599	1.00184.69
ATOM	1883	O	LEU	241	2.280	88.227	27.595	1.00184.69
ATOM	1884	N	GLU	242	0.422	87.941	28.821	1.00137.96
ATOM	1885	CA	GLU	242	-0.067	86.888	27.978	1.00137.96
ATOM	1886	CB	GLU	242	-1.469	86.421	28.418	1.00137.96
ATOM	1887	CG	GLU	242	-1.932	85.105	27.791	1.00137.96
ATOM	1888	CD	GLU	242	-2.379	85.370	26.363	1.00137.96
ATOM	1889	OE1	GLU	242	-2.893	86.489	26.097	1.00137.96
ATOM	1890	OE2	GLU	242	-2.218	84.446	25.521	1.00137.96
ATOM	1891	C	GLU	242	-0.160	87.418	26.589	1.00137.96
ATOM	1892	O	GLU	242	0.240	86.749	25.640	1.00137.96
ATOM	1893	N	ARG	243	-0.656	88.660	26.431	1.00154.06
ATOM	1894	CA	ARG	243	-0.870	89.153	25.107	1.00154.06
ATOM	1895	CB	ARG	243	-1.535	90.530	25.032	1.00154.06
ATOM	1896	CG	ARG	243	-1.826	90.854	23.572	1.00154.06
ATOM	1897	CD	ARG	243	-3.113	91.629	23.338	1.00154.06
ATOM	1898	NE	ARG	243	-3.522	91.293	21.946	1.00154.06
ATOM	1899	CZ	ARG	243	-4.084	90.070	21.717	1.00154.06
ATOM	1900	NH1	ARG	243	-4.244	89.197	22.754	1.00154.06
ATOM	1901	NH2	ARG	243	-4.455	89.702	20.456	1.00154.06
ATOM	1902	C	ARG	243	0.416	89.216	24.359	1.00154.06
ATOM	1903	O	ARG	243	0.500	88.687	23.256	1.00154.06
ATOM	1904	N	TYR	244	1.467	89.835	24.924	1.00147.58
ATOM	1905	CA	TYR	244	2.696	89.878	24.193	1.00147.58
ATOM	1906	CB	TYR	244	3.736	90.843	24.776	1.00147.58
ATOM	1907	CG	TYR	244	3.191	92.176	24.411	1.00147.58
ATOM	1908	CD1	TYR	244	3.501	92.723	23.188	1.00147.58
ATOM	1909	CD2	TYR	244	2.351	92.858	25.258	1.00147.58
ATOM	1910	CE1	TYR	244	2.999	93.946	22.821	1.00147.58
ATOM	1911	CE2	TYR	244	1.845	94.084	24.895	1.00147.58
ATOM	1912	CZ	TYR	244	2.170	94.630	23.675	1.00147.58
ATOM	1913	OH	TYR	244	1.651	95.887	23.300	1.00147.58
ATOM	1914	C	TYR	244	3.265	88.501	24.081	1.00147.58
ATOM	1915	O	TYR	244	3.769	88.133	23.023	1.00147.58
ATOM	1916	N	ASN	245	3.196	87.691	25.156	1.00110.45
ATOM	1917	CA	ASN	245	3.796	86.387	25.088	1.00110.45

ATOM	1918	CB	ASN	245	3.577	85.551	26.367	1.00110.45	C
ATOM	1919	CG	ASN	245	4.673	85.867	27.380	1.00110.45	C
ATOM	1920	OD1	ASN	245	5.731	85.242	27.370	1.00110.45	O
ATOM	1921	ND2	ASN	245	4.435	86.851	28.284	1.00110.45	N
ATOM	1922	C	ASN	245	3.233	85.603	23.942	1.00110.45	C
ATOM	1923	O	ASN	245	3.948	85.351	22.977	1.00110.45	O
ATOM	1924	N	LYS	246	1.927	85.271	23.969	1.00155.22	N
ATOM	1925	CA	LYS	246	1.334	84.458	22.942	1.00155.22	C
ATOM	1926	CB	LYS	246	-0.109	84.010	23.231	1.00155.22	C
ATOM	1927	CG	LYS	246	-0.604	82.965	22.224	1.00155.22	C
ATOM	1928	CD	LYS	246	-1.851	82.199	22.669	1.00155.22	C
ATOM	1929	CE	LYS	246	-3.168	82.860	22.256	1.00155.22	C
ATOM	1930	NZ	LYS	246	-4.307	81.991	22.629	1.00155.22	N
ATOM	1931	C	LYS	246	1.330	85.202	21.654	1.00155.22	C
ATOM	1932	O	LYS	246	1.293	84.579	20.596	1.00155.22	O
ATOM	1933	N	ASN	247	1.295	86.550	21.694	1.00 98.71	N
ATOM	1934	CA	ASN	247	1.214	87.243	20.442	1.00 98.71	C
ATOM	1935	CB	ASN	247	1.091	88.770	20.584	1.00 98.71	C
ATOM	1936	CG	ASN	247	0.624	89.325	19.245	1.00 98.71	C
ATOM	1937	OD1	ASN	247	1.325	89.233	18.239	1.00 98.71	O
ATOM	1938	ND2	ASN	247	-0.605	89.910	19.230	1.00 98.71	N
ATOM	1939	C	ASN	247	2.431	86.957	19.622	1.00 98.71	C
ATOM	1940	O	ASN	247	2.337	86.294	18.592	1.00 98.71	O
ATOM	1941	N	LEU	248	3.622	87.388	20.080	1.00136.68	N
ATOM	1942	CA	LEU	248	4.791	87.152	19.293	1.00136.68	C
ATOM	1943	CB	LEU	248	6.035	87.893	19.788	1.00136.68	C
ATOM	1944	CG	LEU	248	5.999	89.391	19.450	1.00136.68	C
ATOM	1945	CD1	LEU	248	4.860	90.110	20.181	1.00136.68	C
ATOM	1946	CD2	LEU	248	7.368	90.040	19.678	1.00136.68	C
ATOM	1947	C	LEU	248	5.077	85.691	19.260	1.00136.68	C
ATOM	1948	O	LEU	248	5.435	85.155	18.215	1.00136.68	O
ATOM	1949	N	GLU	249	4.902	84.993	20.396	1.00141.63	N
ATOM	1950	CA	GLU	249	5.247	83.605	20.422	1.00141.63	C
ATOM	1951	CB	GLU	249	5.046	82.933	21.793	1.00141.63	C
ATOM	1952	CG	GLU	249	5.688	81.546	21.868	1.00141.63	C
ATOM	1953	CD	GLU	249	5.727	81.062	23.310	1.00141.63	C
ATOM	1954	OE1	GLU	249	4.707	81.235	24.026	1.00141.63	O
ATOM	1955	OE2	GLU	249	6.787	80.511	23.712	1.00141.63	O
ATOM	1956	C	GLU	249	4.436	82.880	19.419	1.00141.63	C
ATOM	1957	O	GLU	249	5.016	82.131	18.659	1.00141.63	O
ATOM	1958	N	GLU	250	3.109	83.088	19.342	1.00120.08	N
ATOM	1959	CA	GLU	250	2.290	82.379	18.395	1.00120.08	C
ATOM	1960	CB	GLU	250	0.801	82.718	18.556	1.00120.08	C
ATOM	1961	CG	GLU	250	-0.131	81.815	17.752	1.00120.08	C
ATOM	1962	CD	GLU	250	-1.550	82.149	18.182	1.00120.08	C
ATOM	1963	OE1	GLU	250	-1.716	83.145	18.937	1.00120.08	O
ATOM	1964	OE2	GLU	250	-2.486	81.418	17.768	1.00120.08	O
ATOM	1965	C	GLU	250	2.692	82.766	17.012	1.00120.08	C
ATOM	1966	O	GLU	250	2.795	81.910	16.135	1.00120.08	O
ATOM	1967	N	ALA	251	2.963	84.067	16.791	1.00 82.11	N
ATOM	1968	CA	ALA	251	3.215	84.519	15.455	1.00 82.11	C
ATOM	1969	CB	ALA	251	3.554	86.017	15.405	1.00 82.11	C
ATOM	1970	C	ALA	251	4.390	83.787	14.907	1.00 82.11	C
ATOM	1971	O	ALA	251	4.273	83.086	13.909	1.00 82.11	O
ATOM	1972	N	LYS	252	5.528	83.874	15.607	1.00166.16	N
ATOM	1973	CA	LYS	252	6.757	83.247	15.242	1.00166.16	C
ATOM	1974	CB	LYS	252	7.910	83.703	16.150	1.00166.16	C
ATOM	1975	CG	LYS	252	7.910	85.215	16.391	1.00166.16	C
ATOM	1976	CD	LYS	252	7.898	86.058	15.117	1.00166.16	C
ATOM	1977	CE	LYS	252	7.889	87.565	15.386	1.00166.16	C
ATOM	1978	NZ	LYS	252	7.904	88.303	14.104	1.00166.16	N
ATOM	1979	C	LYS	252	6.560	81.789	15.473	1.00166.16	C
ATOM	1980	O	LYS	252	7.359	80.972	15.040	1.00166.16	O
ATOM	1981	N	ARG	253	5.573	81.405	16.294	1.00202.30	N
ATOM	1982	CA	ARG	253	5.441	80.003	16.527	1.00202.30	C
ATOM	1983	CB	ARG	253	4.346	79.563	17.516	1.00202.30	C
ATOM	1984	CG	ARG	253	4.807	79.431	18.970	1.00202.30	C
ATOM	1985	CD	ARG	253	6.219	78.863	19.125	1.00202.30	C
ATOM	1986	NE	ARG	253	6.980	79.810	19.988	1.00202.30	N
ATOM	1987	CZ	ARG	253	7.612	80.896	19.455	1.00202.30	C
ATOM	1988	NH1	ARG	253	7.612	81.101	18.107	1.00202.30	N
ATOM	1989	NH2	ARG	253	8.236	81.787	20.280	1.00202.30	N
ATOM	1990	C	ARG	253	5.096	79.401	15.247	1.00202.30	C
ATOM	1991	O	ARG	253	5.974	78.839	14.623	1.00202.30	O

ATOM	1992	N	ILE	254	3.880	79.671	14.749	1.00167.30	N
ATOM	1993	CA	ILE	254	3.401	79.124	13.523	1.00167.30	C
ATOM	1994	CB	ILE	254	1.976	79.524	13.220	1.00167.30	C
ATOM	1995	CG1	ILE	254	1.817	81.043	13.003	1.00167.30	C
ATOM	1996	CG2	ILE	254	1.091	78.986	14.354	1.00167.30	C
ATOM	1997	CD1	ILE	254	2.206	81.531	11.607	1.00167.30	C
ATOM	1998	C	ILE	254	4.293	79.637	12.451	1.00167.30	C
ATOM	1999	O	ILE	254	4.495	78.939	11.469	1.00167.30	O
ATOM	2000	N	GLY	255	4.782	80.892	12.568	1.00 69.48	N
ATOM	2001	CA	GLY	255	5.605	81.489	11.547	1.00 69.48	C
ATOM	2002	C	GLY	255	6.948	80.832	11.405	1.00 69.48	C
ATOM	2003	O	GLY	255	7.308	80.374	10.323	1.00 69.48	O
ATOM	2004	N	ILE	256	7.725	80.760	12.502	1.00197.55	N
ATOM	2005	CA	ILE	256	9.021	80.152	12.489	1.00197.55	C
ATOM	2006	CB	ILE	256	9.932	80.266	13.685	1.00197.55	C
ATOM	2007	CG1	ILE	256	9.547	79.353	14.849	1.00197.55	C
ATOM	2008	CG2	ILE	256	9.990	81.750	14.062	1.00197.55	C
ATOM	2009	CD1	ILE	256	10.703	79.161	15.827	1.00197.55	C
ATOM	2010	C	ILE	256	8.749	78.717	12.321	1.00197.55	C
ATOM	2011	O	ILE	256	9.691	77.964	12.165	1.00197.55	O
ATOM	2012	N	LYS	257	7.505	78.301	12.638	1.00182.80	N
ATOM	2013	CA	LYS	257	6.952	76.992	12.419	1.00182.80	C
ATOM	2014	CB	LYS	257	5.700	76.558	13.204	1.00182.80	C
ATOM	2015	CG	LYS	257	5.990	75.714	14.452	1.00182.80	C
ATOM	2016	CD	LYS	257	6.771	76.402	15.571	1.00182.80	C
ATOM	2017	CE	LYS	257	7.006	75.492	16.779	1.00182.80	C
ATOM	2018	NZ	LYS	257	7.688	76.244	17.856	1.00182.80	N
ATOM	2019	C	LYS	257	6.598	76.816	10.986	1.00182.80	C
ATOM	2020	O	LYS	257	6.237	75.719	10.599	1.00182.80	O
ATOM	2021	N	LYS	258	6.466	77.908	10.211	1.00121.61	N
ATOM	2022	CA	LYS	258	6.235	77.756	8.812	1.00121.61	C
ATOM	2023	CB	LYS	258	5.819	79.034	8.058	1.00121.61	C
ATOM	2024	CG	LYS	258	6.976	79.936	7.627	1.00121.61	C
ATOM	2025	CD	LYS	258	6.568	80.907	6.516	1.00121.61	C
ATOM	2026	CE	LYS	258	7.736	81.674	5.894	1.00121.61	C
ATOM	2027	NZ	LYS	258	7.254	82.461	4.737	1.00121.61	N
ATOM	2028	C	LYS	258	7.562	77.358	8.331	1.00121.61	C
ATOM	2029	O	LYS	258	7.675	76.600	7.379	1.00121.61	O
ATOM	2030	N	ALA	259	8.583	77.974	8.965	1.00 83.72	N
ATOM	2031	CA	ALA	259	9.980	77.705	8.849	1.00 83.72	C
ATOM	2032	CB	ALA	259	10.857	78.715	9.602	1.00 83.72	C
ATOM	2033	C	ALA	259	10.234	76.377	9.483	1.00 83.72	C
ATOM	2034	O	ALA	259	11.161	75.688	9.092	1.00 83.72	O
ATOM	2035	N	ILE	260	9.494	76.037	10.558	1.00143.35	N
ATOM	2036	CA	ILE	260	9.690	74.820	11.293	1.00143.35	C
ATOM	2037	CB	ILE	260	8.874	74.723	12.550	1.00143.35	C
ATOM	2038	CG1	ILE	260	9.380	75.685	13.639	1.00143.35	C
ATOM	2039	CG2	ILE	260	8.859	73.247	12.974	1.00143.35	C
ATOM	2040	CD1	ILE	260	10.822	75.425	14.074	1.00143.35	C
ATOM	2041	C	ILE	260	9.219	73.739	10.422	1.00143.35	C
ATOM	2042	O	ILE	260	9.953	72.820	10.071	1.00143.35	O
ATOM	2043	N	THR	261	7.972	73.925	9.977	1.00112.80	N
ATOM	2044	CA	THR	261	7.259	73.079	9.090	1.00112.80	C
ATOM	2045	CB	THR	261	5.807	73.414	8.863	1.00112.80	C
ATOM	2046	CG1	THR	261	5.674	74.710	8.297	1.00112.80	O
ATOM	2047	CG2	THR	261	5.034	73.290	10.186	1.00112.80	C
ATOM	2048	C	THR	261	7.946	73.247	7.797	1.00112.80	C
ATOM	2049	O	THR	261	7.544	72.629	6.828	1.00112.80	O
ATOM	2050	N	ALA	262	8.778	74.300	7.702	1.00112.73	N
ATOM	2051	CA	ALA	262	9.678	74.579	6.622	1.00112.73	C
ATOM	2052	CB	ALA	262	10.175	76.020	6.469	1.00112.73	C
ATOM	2053	C	ALA	262	10.909	73.764	6.721	1.00112.73	C
ATOM	2054	O	ALA	262	11.567	73.612	5.708	1.00112.73	O
ATOM	2055	N	ASN	263	11.366	73.421	7.946	1.00 78.79	N
ATOM	2056	CA	ASN	263	12.506	72.582	8.160	1.00 78.79	C
ATOM	2057	CB	ASN	263	12.962	72.536	9.626	1.00 78.79	C
ATOM	2058	CG	ASN	263	14.229	71.696	9.704	1.00 78.79	C
ATOM	2059	OD1	ASN	263	14.197	70.478	9.536	1.00 78.79	O
ATOM	2060	ND2	ASN	263	15.383	72.366	9.964	1.00 78.79	N
ATOM	2061	C	ASN	263	11.944	71.269	7.809	1.00 78.79	C
ATOM	2062	O	ASN	263	12.565	70.405	7.194	1.00 78.79	O
ATOM	2063	N	ILE	264	10.680	71.132	8.221	1.00129.17	N
ATOM	2064	CA	ILE	264	9.933	69.970	7.923	1.00129.17	C
ATOM	2065	CB	ILE	264	8.548	70.067	8.487	1.00129.17	C

ATOM	2066	CG1	ILE	264	8.602	70.150	10.022	1.00129.17	C
ATOM	2067	CG2	ILE	264	7.719	68.897	7.939	1.00129.17	C
ATOM	2068	CD1	ILE	264	9.256	68.932	10.678	1.00129.17	C
ATOM	2069	C	ILE	264	9.820	69.979	6.445	1.00129.17	C
ATOM	2070	O	ILE	264	10.181	69.032	5.755	1.00129.17	O
ATOM	2071	N	SER	265	9.410	71.138	5.922	1.00 84.67	N
ATOM	2072	CA	SER	265	9.206	71.326	4.526	1.00 84.67	C
ATOM	2073	CB	SER	265	8.667	72.716	4.124	1.00 84.67	C
ATOM	2074	OG	SER	265	7.258	72.777	4.281	1.00 84.67	O
ATOM	2075	C	SER	265	10.535	71.167	3.891	1.00 84.67	C
ATOM	2076	O	SER	265	10.605	71.028	2.675	1.00 84.67	O
ATOM	2077	N	ILE	266	11.613	71.279	4.695	1.00 83.44	N
ATOM	2078	CA	ILE	266	12.974	71.117	4.264	1.00 83.44	C
ATOM	2079	CB	ILE	266	14.057	71.552	5.217	1.00 83.44	C
ATOM	2080	CG1	ILE	266	14.203	73.076	5.319	1.00 83.44	C
ATOM	2081	CG2	ILE	266	15.349	70.851	4.770	1.00 83.44	C
ATOM	2082	CD1	ILE	266	15.030	73.513	6.527	1.00 83.44	C
ATOM	2083	C	ILE	266	13.226	69.684	4.048	1.00 83.44	C
ATOM	2084	O	ILE	266	13.853	69.308	3.061	1.00 83.44	O
ATOM	2085	N	GLY	267	12.751	68.853	4.996	1.00 51.78	N
ATOM	2086	CA	GLY	267	12.956	67.449	4.860	1.00 51.78	C
ATOM	2087	C	GLY	267	12.273	67.153	3.575	1.00 51.78	C
ATOM	2088	O	GLY	267	12.755	66.396	2.733	1.00 51.78	O
ATOM	2089	N	ALA	268	11.129	67.828	3.397	1.00 65.01	N
ATOM	2090	CA	ALA	268	10.351	67.742	2.209	1.00 65.01	C
ATOM	2091	CB	ALA	268	9.056	68.561	2.306	1.00 65.01	C
ATOM	2092	C	ALA	268	11.157	68.270	1.056	1.00 65.01	C
ATOM	2093	O	ALA	268	11.034	67.769	-0.057	1.00 65.01	O
ATOM	2094	N	ALA	269	11.962	69.335	1.251	1.00 90.39	N
ATOM	2095	CA	ALA	269	12.682	69.861	0.126	1.00 90.39	C
ATOM	2096	CB	ALA	269	13.467	71.135	0.473	1.00 90.39	C
ATOM	2097	C	ALA	269	13.674	68.860	-0.351	1.00 90.39	C
ATOM	2098	O	ALA	269	13.470	68.258	-1.403	1.00 90.39	O
ATOM	2099	N	PHE	270	14.660	68.516	0.509	1.00106.79	N
ATOM	2100	CA	PHE	270	15.722	67.637	0.113	1.00106.79	C
ATOM	2101	CB	PHE	270	16.725	67.272	1.223	1.00106.79	C
ATOM	2102	CG	PHE	270	17.863	68.228	1.195	1.00106.79	C
ATOM	2103	CD1	PHE	270	18.812	68.097	0.207	1.00106.79	C
ATOM	2104	CD2	PHE	270	18.014	69.217	2.139	1.00106.79	C
ATOM	2105	CE1	PHE	270	19.889	68.948	0.142	1.00106.79	C
ATOM	2106	CE2	PHE	270	19.091	70.072	2.079	1.00106.79	C
ATOM	2107	CZ	PHE	270	20.028	69.940	1.081	1.00106.79	C
ATOM	2108	C	PHE	270	15.144	66.351	-0.360	1.00106.79	C
ATOM	2109	O	PHE	270	15.655	65.773	-1.311	1.00106.79	O
ATOM	2110	N	LEU	271	14.120	65.840	0.338	1.00153.29	N
ATOM	2111	CA	LEU	271	13.494	64.594	0.000	1.00153.29	C
ATOM	2112	CB	LEU	271	12.687	64.077	1.208	1.00153.29	C
ATOM	2113	CG	LEU	271	11.947	62.742	1.035	1.00153.29	C
ATOM	2114	CD1	LEU	271	11.495	62.199	2.406	1.00153.29	C
ATOM	2115	CD2	LEU	271	10.750	62.892	0.090	1.00153.29	C
ATOM	2116	C	LEU	271	12.662	64.672	-1.266	1.00153.29	C
ATOM	2117	O	LEU	271	12.733	63.781	-2.115	1.00153.29	O
ATOM	2118	N	LEU	272	11.851	65.736	-1.446	1.00127.27	N
ATOM	2119	CA	LEU	272	11.023	65.850	-2.620	1.00127.27	C
ATOM	2120	CB	LEU	272	10.126	67.105	-2.583	1.00127.27	C
ATOM	2121	CG	LEU	272	9.044	67.209	-3.684	1.00127.27	C
ATOM	2122	CD1	LEU	272	8.217	68.490	-3.512	1.00127.27	C
ATOM	2123	CD2	LEU	272	9.604	67.099	-5.111	1.00127.27	C
ATOM	2124	C	LEU	272	11.958	65.960	-3.773	1.00127.27	C
ATOM	2125	O	LEU	272	11.798	65.297	-4.796	1.00127.27	O
ATOM	2126	N	ILE	273	12.977	66.813	-3.607	1.00176.23	N
ATOM	2127	CA	ILE	273	13.991	67.038	-4.586	1.00176.23	C
ATOM	2128	CB	ILE	273	14.902	68.195	-4.279	1.00176.23	C
ATOM	2129	CG1	ILE	273	15.642	68.595	-5.557	1.00176.23	C
ATOM	2130	CG2	ILE	273	15.833	67.827	-3.119	1.00176.23	C
ATOM	2131	CD1	ILE	273	14.685	69.073	-6.646	1.00176.23	C
ATOM	2132	C	ILE	273	14.773	65.777	-4.709	1.00176.23	C
ATOM	2133	O	ILE	273	15.442	65.551	-5.716	1.00176.23	O
ATOM	2134	N	TYR	274	14.789	64.980	-3.622	1.00186.45	N
ATOM	2135	CA	TYR	274	15.471	63.725	-3.608	1.00186.45	C
ATOM	2136	CB	TYR	274	15.366	63.034	-2.233	1.00186.45	C
ATOM	2137	CG	TYR	274	15.803	61.611	-2.311	1.00186.45	C
ATOM	2138	CD1	TYR	274	17.139	61.280	-2.284	1.00186.45	C
ATOM	2139	CD2	TYR	274	14.871	60.605	-2.419	1.00186.45	C

ATOM	2140	CE1	TYR	274	17.536	59.964	-2.353	1.00186.45	C
ATOM	2141	CE2	TYR	274	15.261	59.288	-2.487	1.00186.45	C
ATOM	2142	CZ	TYR	274	16.596	58.966	-2.453	1.00186.45	C
ATOM	2143	OH	TYR	274	17.004	57.617	-2.520	1.00186.45	O
ATOM	2144	C	TYR	274	14.821	62.880	-4.644	1.00186.45	C
ATOM	2145	O	TYR	274	15.476	62.454	-5.575	1.00186.45	O
ATOM	2146	N	ALA	275	13.492	62.714	-4.600	1.00 80.18	N
ATOM	2147	CA	ALA	275	12.825	61.884	-5.558	1.00 80.18	C
ATOM	2148	CB	ALA	275	11.307	61.796	-5.331	1.00 80.18	C
ATOM	2149	C	ALA	275	13.061	62.471	-6.906	1.00 80.18	C
ATOM	2150	O	ALA	275	13.082	61.748	-7.899	1.00 80.18	O
ATOM	2151	N	SER	276	13.192	63.811	-6.969	1.00 55.27	N
ATOM	2152	CA	SER	276	13.447	64.494	-8.203	1.00 55.27	C
ATOM	2153	CB	SER	276	13.653	66.006	-8.016	1.00 55.27	C
ATOM	2154	OG	SER	276	14.011	66.607	-9.252	1.00 55.27	O
ATOM	2155	C	SER	276	14.724	63.951	-8.747	1.00 55.27	C
ATOM	2156	O	SER	276	14.838	63.739	-9.954	1.00 55.27	O
ATOM	2157	N	TYR	277	15.696	63.679	-7.849	1.00244.18	N
ATOM	2158	CA	TYR	277	16.971	63.168	-8.248	1.00244.18	C
ATOM	2159	CB	TYR	277	17.935	62.797	-7.084	1.00244.18	C
ATOM	2160	CG	TYR	277	18.130	61.317	-6.844	1.00244.18	C
ATOM	2161	CD1	TYR	277	17.296	60.554	-6.060	1.00244.18	C
ATOM	2162	CD2	TYR	277	19.207	60.663	-7.398	1.00244.18	C
ATOM	2163	CE1	TYR	277	17.476	59.218	-5.828	1.00244.18	C
ATOM	2164	CE2	TYR	277	19.405	59.319	-7.172	1.00244.18	C
ATOM	2165	CZ	TYR	277	18.546	58.588	-6.394	1.00244.18	C
ATOM	2166	OH	TYR	277	18.763	57.212	-6.175	1.00244.18	O
ATOM	2167	C	TYR	277	16.607	61.920	-8.945	1.00244.18	C
ATOM	2168	O	TYR	277	17.008	61.732	-10.079	1.00244.18	O
ATOM	2169	N	ALA	278	15.710	61.120	-8.342	1.00 61.25	N
ATOM	2170	CA	ALA	278	15.301	59.874	-8.907	1.00 61.25	C
ATOM	2171	CB	ALA	278	14.192	59.198	-8.085	1.00 61.25	C
ATOM	2172	C	ALA	278	14.748	60.147	-10.271	1.00 61.25	C
ATOM	2173	O	ALA	278	15.000	59.387	-11.203	1.00 61.25	O
ATOM	2174	N	LEU	279	13.988	61.249	-10.431	1.00142.32	N
ATOM	2175	CA	LEU	279	13.372	61.534	-11.697	1.00142.32	C
ATOM	2176	CB	LEU	279	12.553	62.845	-11.602	1.00142.32	C
ATOM	2177	CG	LEU	279	11.808	63.334	-12.866	1.00142.32	C
ATOM	2178	CD1	LEU	279	10.841	64.471	-12.509	1.00142.32	C
ATOM	2179	CD2	LEU	279	12.756	63.760	-13.998	1.00142.32	C
ATOM	2180	C	LEU	279	14.404	61.656	-12.782	1.00142.32	C
ATOM	2181	O	LEU	279	14.500	60.798	-13.652	1.00142.32	O
ATOM	2182	N	ALA	280	15.287	62.664	-12.722	1.00 63.08	N
ATOM	2183	CA	ALA	280	16.243	62.845	-13.779	1.00 63.08	C
ATOM	2184	CB	ALA	280	17.151	64.069	-13.560	1.00 63.08	C
ATOM	2185	C	ALA	280	17.102	61.638	-13.777	1.00 63.08	C
ATOM	2186	O	ALA	280	17.593	61.198	-14.814	1.00 63.08	O
ATOM	2187	N	PHE	281	17.296	61.084	-12.572	1.00156.38	N
ATOM	2188	CA	PHE	281	18.165	59.973	-12.366	1.00156.38	C
ATOM	2189	CB	PHE	281	17.962	59.364	-10.972	1.00156.38	C
ATOM	2190	CG	PHE	281	19.121	58.576	-10.491	1.00156.38	C
ATOM	2191	CD1	PHE	281	20.205	59.247	-9.983	1.00156.38	C
ATOM	2192	CD2	PHE	281	19.135	57.202	-10.535	1.00156.38	C
ATOM	2193	CE1	PHE	281	21.290	58.560	-9.501	1.00156.38	C
ATOM	2194	CE2	PHE	281	20.222	56.509	-10.059	1.00156.38	C
ATOM	2195	CZ	PHE	281	21.299	57.187	-9.538	1.00156.38	C
ATOM	2196	C	PHE	281	17.727	58.918	-13.307	1.00156.38	C
ATOM	2197	O	PHE	281	18.344	58.700	-14.341	1.00156.38	O
ATOM	2198	N	TRP	282	16.550	58.342	-13.042	1.00112.09	N
ATOM	2199	CA	TRP	282	16.101	57.226	-13.805	1.00112.09	C
ATOM	2200	CB	TRP	282	14.866	56.561	-13.173	1.00112.09	C
ATOM	2201	CG	TRP	282	15.171	56.089	-11.772	1.00112.09	C
ATOM	2202	CD2	TRP	282	16.332	55.311	-11.452	1.00112.09	C
ATOM	2203	CD1	TRP	282	14.544	56.354	-10.588	1.00112.09	C
ATOM	2204	NE1	TRP	282	15.244	55.783	-9.552	1.00112.09	N
ATOM	2205	CE2	TRP	282	16.349	55.142	-10.067	1.00112.09	C
ATOM	2206	CE3	TRP	282	17.313	54.795	-12.246	1.00112.09	C
ATOM	2207	CZ2	TRP	282	17.353	54.449	-9.455	1.00112.09	C
ATOM	2208	CZ3	TRP	282	18.316	54.083	-11.629	1.00112.09	C
ATOM	2209	CH2	TRP	282	18.335	53.915	-10.259	1.00112.09	C
ATOM	2210	C	TRP	282	15.787	57.651	-15.199	1.00112.09	C
ATOM	2211	O	TRP	282	16.078	56.921	-16.143	1.00112.09	O
ATOM	2212	N	TYR	283	15.179	58.841	-15.377	1.00 98.75	N
ATOM	2213	CA	TYR	283	14.753	59.168	-16.705	1.00 98.75	C

ATOM	2214	CB	TYR	283	13.898	60.442	-16.791	1.00	98.75	C
ATOM	2215	CG	TYR	283	13.161	60.320	-18.082	1.00	98.75	C
ATOM	2216	CD1	TYR	283	12.113	59.430	-18.164	1.00	98.75	C
ATOM	2217	CD2	TYR	283	13.484	61.068	-19.190	1.00	98.75	C
ATOM	2218	CE1	TYR	283	11.401	59.272	-19.327	1.00	98.75	C
ATOM	2219	CE2	TYR	283	12.774	60.915	-20.361	1.00	98.75	C
ATOM	2220	CZ	TYR	283	11.732	60.017	-20.432	1.00	98.75	C
ATOM	2221	OH	TYR	283	11.007	59.861	-21.632	1.00	98.75	O
ATOM	2222	C	TYR	283	15.930	59.325	-17.622	1.00	98.75	C
ATOM	2223	O	TYR	283	16.042	58.613	-18.615	1.00	98.75	O
ATOM	2224	N	GLY	284	16.896	60.191	-17.267	1.00	45.92	N
ATOM	2225	CA	GLY	284	18.018	60.438	-18.126	1.00	45.92	C
ATOM	2226	C	GLY	284	18.717	59.136	-18.283	1.00	45.92	C
ATOM	2227	O	GLY	284	19.339	58.866	-19.310	1.00	45.92	O
ATOM	2228	N	THR	285	18.683	58.322	-17.217	1.00	78.54	N
ATOM	2229	CA	THR	285	19.303	57.035	-17.235	1.00	78.54	C
ATOM	2230	CB	THR	285	19.173	56.316	-15.935	1.00	78.54	C
ATOM	2231	OG1	THR	285	20.039	56.871	-14.957	1.00	78.54	O
ATOM	2232	CG2	THR	285	19.418	54.824	-16.173	1.00	78.54	C
ATOM	2233	C	THR	285	18.700	56.126	-18.246	1.00	78.54	C
ATOM	2234	O	THR	285	19.405	55.590	-19.098	1.00	78.54	O
ATOM	2235	N	THR	286	17.371	55.953	-18.201	1.00	55.86	N
ATOM	2236	CA	THR	286	16.727	54.995	-19.042	1.00	55.86	C
ATOM	2237	CB	THR	286	15.242	54.944	-18.845	1.00	55.86	C
ATOM	2238	OG1	THR	286	14.929	54.555	-17.516	1.00	55.86	O
ATOM	2239	CG2	THR	286	14.652	53.954	-19.861	1.00	55.86	C
ATOM	2240	C	THR	286	16.972	55.350	-20.465	1.00	55.86	C
ATOM	2241	O	THR	286	17.363	54.500	-21.263	1.00	55.86	O
ATOM	2242	N	LEU	287	16.789	56.634	-20.817	1.00	54.16	N
ATOM	2243	CA	LEU	287	16.924	57.015	-22.190	1.00	54.16	C
ATOM	2244	CB	LEU	287	16.711	58.525	-22.392	1.00	54.16	C
ATOM	2245	CG	LEU	287	16.766	58.971	-23.862	1.00	54.16	C
ATOM	2246	CD1	LEU	287	15.585	58.397	-24.662	1.00	54.16	C
ATOM	2247	CD2	LEU	287	16.876	60.500	-23.975	1.00	54.16	C
ATOM	2248	C	LEU	287	18.316	56.676	-22.630	1.00	54.16	C
ATOM	2249	O	LEU	287	18.516	56.006	-23.641	1.00	54.16	O
ATOM	2250	N	VAL	288	19.313	57.082	-21.828	1.00	113.57	N
ATOM	2251	CA	VAL	288	20.706	56.901	-22.120	1.00	113.57	C
ATOM	2252	CB	VAL	288	21.602	57.765	-21.264	1.00	113.57	C
ATOM	2253	CG1	VAL	288	23.065	57.610	-21.717	1.00	113.57	C
ATOM	2254	CG2	VAL	288	21.109	59.218	-21.367	1.00	113.57	C
ATOM	2255	C	VAL	288	21.047	55.442	-21.974	1.00	113.57	C
ATOM	2256	O	VAL	288	22.204	55.060	-22.093	1.00	113.57	O
ATOM	2257	N	LEU	289	20.117	54.640	-21.426	1.00	165.42	N
ATOM	2258	CA	LEU	289	20.260	53.214	-21.306	1.00	165.42	C
ATOM	2259	CB	LEU	289	19.578	52.742	-20.011	1.00	165.42	C
ATOM	2260	CG	LEU	289	19.879	51.306	-19.563	1.00	165.42	C
ATOM	2261	CD1	LEU	289	21.392	51.026	-19.531	1.00	165.42	C
ATOM	2262	CD2	LEU	289	19.256	51.081	-18.175	1.00	165.42	C
ATOM	2263	C	LEU	289	19.758	52.468	-22.516	1.00	165.42	C
ATOM	2264	O	LEU	289	20.271	51.404	-22.856	1.00	165.42	O
ATOM	2265	N	SER	290	18.662	52.951	-23.139	1.00	112.75	N
ATOM	2266	CA	SER	290	18.108	52.286	-24.285	1.00	112.75	C
ATOM	2267	CB	SER	290	16.648	52.688	-24.560	1.00	112.75	C
ATOM	2268	OG	SER	290	16.552	54.087	-24.766	1.00	112.75	O
ATOM	2269	C	SER	290	18.925	52.556	-25.512	1.00	112.75	C
ATOM	2270	O	SER	290	19.185	51.640	-26.293	1.00	112.75	O
ATOM	2271	N	GLY	291	19.281	53.837	-25.759	1.00	65.91	N
ATOM	2272	CA	GLY	291	20.039	54.142	-26.942	1.00	65.91	C
ATOM	2273	C	GLY	291	21.476	53.701	-26.885	1.00	65.91	C
ATOM	2274	O	GLY	291	21.897	52.821	-27.628	1.00	65.91	O
ATOM	2275	N	GLU	292	22.256	54.238	-25.931	1.00	142.05	N
ATOM	2276	CA	GLU	292	23.675	54.004	-25.874	1.00	142.05	C
ATOM	2277	CB	GLU	292	24.471	55.320	-25.968	1.00	142.05	C
ATOM	2278	CG	GLU	292	25.989	55.158	-25.916	1.00	142.05	C
ATOM	2279	CD	GLU	292	26.600	56.531	-25.672	1.00	142.05	C
ATOM	2280	OE1	GLU	292	26.113	57.244	-24.754	1.00	142.05	O
ATOM	2281	OE2	GLU	292	27.566	56.884	-26.400	1.00	142.05	O
ATOM	2282	C	GLU	292	23.944	53.459	-24.517	1.00	142.05	C
ATOM	2283	O	GLU	292	23.003	53.354	-23.742	1.00	142.05	O
ATOM	2284	N	TYR	293	25.203	53.013	-24.254	1.00	109.52	N
ATOM	2285	CA	TYR	293	25.685	52.631	-22.948	1.00	109.52	C
ATOM	2286	CB	TYR	293	26.024	53.887	-22.111	1.00	109.52	C
ATOM	2287	CG	TYR	293	26.605	53.558	-20.774	1.00	109.52	C

ATOM	2288	CD1	TYR	293	27.876	53.044	-20.672	1.00109.52	C
ATOM	2289	CD2	TYR	293	25.900	53.811	-19.617	1.00109.52	C
ATOM	2290	CE1	TYR	293	28.424	52.756	-19.444	1.00109.52	C
ATOM	2291	CE2	TYR	293	26.442	53.527	-18.385	1.00109.52	C
ATOM	2292	CZ	TYR	293	27.705	52.996	-18.296	1.00109.52	C
ATOM	2293	OH	TYR	293	28.267	52.701	-17.034	1.00109.52	O
ATOM	2294	C	TYR	293	24.637	51.809	-22.253	1.00109.52	C
ATOM	2295	O	TYR	293	24.317	52.060	-21.093	1.00109.52	O
ATOM	2296	N	SER	294	24.078	50.794	-22.948	1.00138.73	N
ATOM	2297	CA	SER	294	22.951	50.089	-22.395	1.00138.73	C
ATOM	2298	CB	SER	294	22.081	49.439	-23.484	1.00138.73	C
ATOM	2299	OG	SER	294	22.871	48.552	-24.263	1.00138.73	O
ATOM	2300	C	SER	294	23.396	49.002	-21.465	1.00138.73	C
ATOM	2301	O	SER	294	23.320	47.816	-21.783	1.00138.73	O
ATOM	2302	N	ILE	295	23.958	49.417	-20.318	1.00195.76	N
ATOM	2303	CA	ILE	295	24.388	48.618	-19.202	1.00195.76	C
ATOM	2304	CB	ILE	295	25.647	49.180	-18.613	1.00195.76	C
ATOM	2305	CG1	ILE	295	25.576	50.716	-18.609	1.00195.76	C
ATOM	2306	CG2	ILE	295	26.835	48.619	-19.413	1.00195.76	C
ATOM	2307	CD1	ILE	295	24.344	51.315	-17.948	1.00195.76	C
ATOM	2308	C	ILE	295	23.393	48.248	-18.121	1.00195.76	C
ATOM	2309	O	ILE	295	23.455	47.145	-17.577	1.00195.76	O
ATOM	2310	N	GLY	296	22.508	49.182	-17.688	1.00 78.85	N
ATOM	2311	CA	GLY	296	21.687	48.945	-16.516	1.00 78.85	C
ATOM	2312	C	GLY	296	22.624	49.200	-15.363	1.00 78.85	C
ATOM	2313	O	GLY	296	22.338	48.888	-14.206	1.00 78.85	O
ATOM	2314	N	GLN	297	23.848	49.618	-15.748	1.00181.22	N
ATOM	2315	CA	GLN	297	25.030	49.978	-15.021	1.00181.22	C
ATOM	2316	CB	GLN	297	26.334	49.505	-15.665	1.00181.22	C
ATOM	2317	CG	GLN	297	27.361	49.350	-14.552	1.00181.22	C
ATOM	2318	CD	GLN	297	26.611	48.567	-13.476	1.00181.22	C
ATOM	2319	OE1	GLN	297	26.270	47.400	-13.660	1.00181.22	O
ATOM	2320	NE2	GLN	297	26.304	49.234	-12.333	1.00181.22	N
ATOM	2321	C	GLN	297	25.149	51.430	-14.706	1.00181.22	C
ATOM	2322	O	GLN	297	26.062	51.841	-13.997	1.00181.22	O
ATOM	2323	N	VAL	298	24.304	52.288	-15.299	1.00 93.23	N
ATOM	2324	CA	VAL	298	24.368	53.697	-15.023	1.00 93.23	C
ATOM	2325	CB	VAL	298	23.269	54.439	-15.695	1.00 93.23	C
ATOM	2326	CG1	VAL	298	23.506	54.431	-17.215	1.00 93.23	C
ATOM	2327	CG2	VAL	298	21.980	53.718	-15.285	1.00 93.23	C
ATOM	2328	C	VAL	298	24.179	53.840	-13.548	1.00 93.23	C
ATOM	2329	O	VAL	298	24.600	54.827	-12.946	1.00 93.23	O
ATOM	2330	N	LEU	299	23.545	52.826	-12.933	1.00116.09	N
ATOM	2331	CA	LEU	299	23.261	52.807	-11.538	1.00116.09	C
ATOM	2332	CB	LEU	299	22.842	51.403	-11.080	1.00116.09	C
ATOM	2333	CG	LEU	299	22.526	51.294	-9.581	1.00116.09	C
ATOM	2334	CD1	LEU	299	21.306	52.149	-9.197	1.00116.09	C
ATOM	2335	CD2	LEU	299	22.387	49.823	-9.164	1.00116.09	C
ATOM	2336	C	LEU	299	24.493	53.171	-10.776	1.00116.09	C
ATOM	2337	O	LEU	299	24.480	54.213	-10.124	1.00116.09	O
ATOM	2338	N	THR	300	25.614	52.431	-10.941	1.00 75.50	N
ATOM	2339	CA	THR	300	26.784	52.690	-10.142	1.00 75.50	C
ATOM	2340	CB	THR	300	27.987	51.927	-10.567	1.00 75.50	C
ATOM	2341	OG1	THR	300	27.721	50.549	-10.450	1.00 75.50	O
ATOM	2342	CG2	THR	300	29.176	52.310	-9.669	1.00 75.50	C
ATOM	2343	C	THR	300	27.192	54.116	-10.264	1.00 75.50	C
ATOM	2344	O	THR	300	27.438	54.770	-9.253	1.00 75.50	O
ATOM	2345	N	VAL	301	27.281	54.644	-11.499	1.00161.37	N
ATOM	2346	CA	VAL	301	27.739	56.001	-11.592	1.00161.37	C
ATOM	2347	CB	VAL	301	27.980	56.492	-12.993	1.00161.37	C
ATOM	2348	CG1	VAL	301	29.200	55.751	-13.551	1.00161.37	C
ATOM	2349	CG2	VAL	301	26.725	56.292	-13.851	1.00161.37	C
ATOM	2350	C	VAL	301	26.820	56.969	-10.911	1.00161.37	C
ATOM	2351	O	VAL	301	27.168	57.488	-9.854	1.00161.37	O
ATOM	2352	N	PHE	302	25.579	57.137	-11.413	1.00117.42	N
ATOM	2353	CA	PHE	302	24.692	58.151	-10.906	1.00117.42	C
ATOM	2354	CB	PHE	302	23.306	58.078	-11.575	1.00117.42	C
ATOM	2355	CG	PHE	302	23.392	58.529	-12.992	1.00117.42	C
ATOM	2356	CD1	PHE	302	23.897	57.702	-13.969	1.00117.42	C
ATOM	2357	CD2	PHE	302	22.947	59.783	-13.349	1.00117.42	C
ATOM	2358	CE1	PHE	302	23.967	58.127	-15.275	1.00117.42	C
ATOM	2359	CE2	PHE	302	23.016	60.214	-14.653	1.00117.42	C
ATOM	2360	CZ	PHE	302	23.529	59.384	-15.618	1.00117.42	C
ATOM	2361	C	PHE	302	24.512	57.955	-9.423	1.00117.42	C

ATOM	2362	O	PHE	302	24.713	58.880	-8.638	1.00117.42	O
ATOM	2363	N	PHE	303	24.224	56.719	-8.988	1.00 92.13	N
ATOM	2364	CA	PHE	303	23.988	56.436	-7.600	1.00 92.13	C
ATOM	2365	CB	PHE	303	23.773	54.929	-7.370	1.00 92.13	C
ATOM	2366	CG	PHE	303	23.313	54.687	-5.973	1.00 92.13	C
ATOM	2367	CD1	PHE	303	21.980	54.803	-5.657	1.00 92.13	C
ATOM	2368	CD2	PHE	303	24.201	54.345	-4.981	1.00 92.13	C
ATOM	2369	CE1	PHE	303	21.539	54.581	-4.373	1.00 92.13	C
ATOM	2370	CE2	PHE	303	23.769	54.120	-3.695	1.00 92.13	C
ATOM	2371	CZ	PHE	303	22.434	54.237	-3.389	1.00 92.13	C
ATOM	2372	C	PHE	303	25.189	56.885	-6.803	1.00 92.13	C
ATOM	2373	O	PHE	303	25.043	57.468	-5.729	1.00 92.13	O
ATOM	2374	N	SER	304	26.410	56.616	-7.307	1.00 54.43	N
ATOM	2375	CA	SER	304	27.638	56.965	-6.638	1.00 54.43	C
ATOM	2376	CB	SER	304	28.892	56.446	-7.363	1.00 54.43	C
ATOM	2377	OG	SER	304	30.061	56.854	-6.666	1.00 54.43	O
ATOM	2378	C	SER	304	27.808	58.451	-6.515	1.00 54.43	C
ATOM	2379	O	SER	304	28.232	58.940	-5.470	1.00 54.43	O
ATOM	2380	N	VAL	305	27.481	59.224	-7.569	1.00113.97	N
ATOM	2381	CA	VAL	305	27.679	60.646	-7.493	1.00113.97	C
ATOM	2382	CB	VAL	305	27.251	61.378	-8.741	1.00113.97	C
ATOM	2383	CG1	VAL	305	25.720	61.414	-8.819	1.00113.97	C
ATOM	2384	CG2	VAL	305	27.889	62.776	-8.741	1.00113.97	C
ATOM	2385	C	VAL	305	26.845	61.131	-6.347	1.00113.97	C
ATOM	2386	O	VAL	305	27.232	62.036	-5.608	1.00113.97	O
ATOM	2387	N	LEU	306	25.683	60.484	-6.148	1.00 85.02	N
ATOM	2388	CA	LEU	306	24.767	60.874	-5.118	1.00 85.02	C
ATOM	2389	CB	LEU	306	23.557	59.932	-4.998	1.00 85.02	C
ATOM	2390	CG	LEU	306	22.502	60.432	-3.991	1.00 85.02	C
ATOM	2391	CD1	LEU	306	21.677	61.584	-4.585	1.00 85.02	C
ATOM	2392	CD2	LEU	306	21.646	59.288	-3.431	1.00 85.02	C
ATOM	2393	C	LEU	306	25.492	60.778	-3.813	1.00 85.02	C
ATOM	2394	O	LEU	306	25.404	61.672	-2.972	1.00 85.02	O
ATOM	2395	N	ILE	307	26.280	59.705	-3.636	1.00 53.22	N
ATOM	2396	CA	ILE	307	26.990	59.493	-2.410	1.00 53.22	C
ATOM	2397	CB	ILE	307	27.887	58.295	-2.451	1.00 53.22	C
ATOM	2398	CG1	ILE	307	27.055	57.028	-2.699	1.00 53.22	C
ATOM	2399	CG2	ILE	307	28.686	58.254	-1.137	1.00 53.22	C
ATOM	2400	CD1	ILE	307	27.904	55.810	-3.042	1.00 53.22	C
ATOM	2401	C	ILE	307	27.848	60.696	-2.200	1.00 53.22	C
ATOM	2402	O	ILE	307	28.059	61.131	-1.070	1.00 53.22	O
ATOM	2403	N	GLY	308	28.372	61.263	-3.301	1.00 41.18	N
ATOM	2404	CA	GLY	308	29.246	62.393	-3.201	1.00 41.18	C
ATOM	2405	C	GLY	308	28.560	63.550	-2.533	1.00 41.18	C
ATOM	2406	O	GLY	308	29.135	64.195	-1.656	1.00 41.18	O
ATOM	2407	N	ALA	309	27.303	63.847	-2.911	1.00 55.37	N
ATOM	2408	CA	ALA	309	26.678	65.014	-2.357	1.00 55.37	C
ATOM	2409	CB	ALA	309	25.254	65.231	-2.896	1.00 55.37	C
ATOM	2410	C	ALA	309	26.586	64.861	-0.871	1.00 55.37	C
ATOM	2411	O	ALA	309	26.998	65.741	-0.116	1.00 55.37	O
ATOM	2412	N	PHE	310	26.127	63.688	-0.407	1.00114.26	N
ATOM	2413	CA	PHE	310	25.913	63.518	0.999	1.00114.26	C
ATOM	2414	CB	PHE	310	25.305	62.154	1.357	1.00114.26	C
ATOM	2415	CG	PHE	310	23.890	62.233	0.898	1.00114.26	C
ATOM	2416	CD1	PHE	310	23.558	61.977	-0.411	1.00114.26	C
ATOM	2417	CD2	PHE	310	22.894	62.583	1.779	1.00114.26	C
ATOM	2418	CE1	PHE	310	22.250	62.056	-0.830	1.00114.26	C
ATOM	2419	CE2	PHE	310	21.585	62.663	1.366	1.00114.26	C
ATOM	2420	CZ	PHE	310	21.260	62.401	0.058	1.00114.26	C
ATOM	2421	C	PHE	310	27.204	63.702	1.729	1.00114.26	C
ATOM	2422	O	PHE	310	27.237	64.294	2.807	1.00114.26	O
ATOM	2423	N	SER	311	28.309	63.211	1.147	1.00 89.18	N
ATOM	2424	CA	SER	311	29.589	63.287	1.794	1.00 89.18	C
ATOM	2425	CB	SER	311	30.710	62.726	0.908	1.00 89.18	C
ATOM	2426	OG	SER	311	30.395	61.402	0.511	1.00 89.18	O
ATOM	2427	C	SER	311	29.940	64.720	2.037	1.00 89.18	C
ATOM	2428	O	SER	311	30.540	65.056	3.058	1.00 89.18	O
ATOM	2429	N	VAL	312	29.567	65.608	1.097	1.00 40.02	N
ATOM	2430	CA	VAL	312	29.908	66.994	1.230	1.00 40.02	C
ATOM	2431	CB	VAL	312	29.389	67.832	0.097	1.00 40.02	C
ATOM	2432	CG1	VAL	312	29.723	69.306	0.383	1.00 40.02	C
ATOM	2433	CG2	VAL	312	29.981	67.301	-1.221	1.00 40.02	C
ATOM	2434	C	VAL	312	29.269	67.491	2.480	1.00 40.02	C
ATOM	2435	O	VAL	312	29.835	68.310	3.204	1.00 40.02	O

ATOM	2436	N	GLY	313	28.048	67.012	2.763	1.00	47.54	N
ATOM	2437	CA	GLY	313	27.386	67.509	3.925	1.00	47.54	C
ATOM	2438	C	GLY	313	28.166	67.152	5.151	1.00	47.54	C
ATOM	2439	O	GLY	313	28.474	68.011	5.970	1.00	47.54	O
ATOM	2440	N	GLN	314	28.579	65.884	5.280	1.00	118.84	N
ATOM	2441	CA	GLN	314	29.209	65.447	6.494	1.00	118.84	C
ATOM	2442	CB	GLN	314	29.571	63.958	6.437	1.00	118.84	C
ATOM	2443	CG	GLN	314	29.799	63.350	7.815	1.00	118.84	C
ATOM	2444	CD	GLN	314	28.435	63.284	8.486	1.00	118.84	C
ATOM	2445	OE1	GLN	314	27.613	64.187	8.335	1.00	118.84	O
ATOM	2446	NE2	GLN	314	28.178	62.180	9.237	1.00	118.84	N
ATOM	2447	C	GLN	314	30.462	66.233	6.699	1.00	118.84	C
ATOM	2448	O	GLN	314	30.807	66.611	7.821	1.00	118.84	O
ATOM	2449	N	ALA	315	31.168	66.525	5.598	1.00	38.31	N
ATOM	2450	CA	ALA	315	32.405	67.232	5.697	1.00	38.31	C
ATOM	2451	CB	ALA	315	33.039	67.506	4.322	1.00	38.31	C
ATOM	2452	C	ALA	315	32.139	68.558	6.345	1.00	38.31	C
ATOM	2453	O	ALA	315	32.929	69.015	7.170	1.00	38.31	O
ATOM	2454	N	SER	316	31.006	69.205	6.010	1.00	95.80	N
ATOM	2455	CA	SER	316	30.761	70.527	6.518	1.00	95.80	C
ATOM	2456	CB	SER	316	29.458	71.165	5.995	1.00	95.80	C
ATOM	2457	OG	SER	316	29.521	71.336	4.588	1.00	95.80	O
ATOM	2458	C	SER	316	30.735	70.555	8.023	1.00	95.80	C
ATOM	2459	O	SER	316	31.486	71.340	8.600	1.00	95.80	O
ATOM	2460	N	PRO	317	29.958	69.772	8.732	1.00	79.84	N
ATOM	2461	CA	PRO	317	30.041	69.931	10.156	1.00	79.84	C
ATOM	2462	CD	PRO	317	28.585	69.491	8.344	1.00	79.84	C
ATOM	2463	CB	PRO	317	28.836	69.205	10.742	1.00	79.84	C
ATOM	2464	CG	PRO	317	27.773	69.382	9.646	1.00	79.84	C
ATOM	2465	C	PRO	317	31.352	69.578	10.775	1.00	79.84	C
ATOM	2466	O	PRO	317	31.699	70.168	11.795	1.00	79.84	O
ATOM	2467	N	SER	318	32.101	68.625	10.201	1.00	71.16	N
ATOM	2468	CA	SER	318	33.355	68.290	10.802	1.00	71.16	C
ATOM	2469	CB	SER	318	34.001	67.072	10.129	1.00	71.16	C
ATOM	2470	OG	SER	318	33.913	67.209	8.720	1.00	71.16	O
ATOM	2471	C	SER	318	34.252	69.489	10.714	1.00	71.16	C
ATOM	2472	O	SER	318	34.994	69.793	11.648	1.00	71.16	O
ATOM	2473	N	ILE	319	34.173	70.231	9.593	1.00	86.60	N
ATOM	2474	CA	ILE	319	34.997	71.394	9.409	1.00	86.60	C
ATOM	2475	CB	ILE	319	34.823	72.034	8.062	1.00	86.60	C
ATOM	2476	CG1	ILE	319	35.393	71.129	6.959	1.00	86.60	C
ATOM	2477	CG2	ILE	319	35.479	73.424	8.112	1.00	86.60	C
ATOM	2478	CD1	ILE	319	36.904	70.920	7.082	1.00	86.60	C
ATOM	2479	C	ILE	319	34.651	72.411	10.443	1.00	86.60	C
ATOM	2480	O	ILE	319	35.538	73.029	11.032	1.00	86.60	O
ATOM	2481	N	GLU	320	33.345	72.594	10.710	1.00	99.63	N
ATOM	2482	CA	GLU	320	32.946	73.605	11.640	1.00	99.63	C
ATOM	2483	CB	GLU	320	31.430	73.646	11.888	1.00	99.63	C
ATOM	2484	CG	GLU	320	30.899	75.013	12.338	1.00	99.63	C
ATOM	2485	CD	GLU	320	31.762	75.604	13.444	1.00	99.63	C
ATOM	2486	OE1	GLU	320	32.786	76.257	13.109	1.00	99.63	O
ATOM	2487	OE2	GLU	320	31.399	75.425	14.637	1.00	99.63	O
ATOM	2488	C	GLU	320	33.592	73.266	12.946	1.00	99.63	C
ATOM	2489	O	GLU	320	34.077	74.143	13.657	1.00	99.63	O
ATOM	2490	N	ALA	321	33.661	71.967	13.281	1.00	39.46	N
ATOM	2491	CA	ALA	321	34.221	71.584	14.544	1.00	39.46	C
ATOM	2492	CB	ALA	321	34.275	70.058	14.726	1.00	39.46	C
ATOM	2493	C	ALA	321	35.627	72.092	14.618	1.00	39.46	C
ATOM	2494	O	ALA	321	36.032	72.667	15.628	1.00	39.46	O
ATOM	2495	N	PHE	322	36.400	71.935	13.529	1.00	115.73	N
ATOM	2496	CA	PHE	322	37.776	72.336	13.558	1.00	115.73	C
ATOM	2497	CB	PHE	322	38.482	72.106	12.211	1.00	115.73	C
ATOM	2498	CG	PHE	322	39.915	72.498	12.352	1.00	115.73	C
ATOM	2499	CD1	PHE	322	40.314	73.809	12.218	1.00	115.73	C
ATOM	2500	CD2	PHE	322	40.867	71.539	12.609	1.00	115.73	C
ATOM	2501	CE1	PHE	322	41.641	74.154	12.345	1.00	115.73	C
ATOM	2502	CE2	PHE	322	42.193	71.877	12.738	1.00	115.73	C
ATOM	2503	CZ	PHE	322	42.583	73.188	12.605	1.00	115.73	C
ATOM	2504	C	PHE	322	37.850	73.798	13.849	1.00	115.73	C
ATOM	2505	O	PHE	322	38.507	74.216	14.798	1.00	115.73	O
ATOM	2506	N	ALA	323	37.110	74.616	13.084	1.00	39.79	N
ATOM	2507	CA	ALA	323	37.234	76.038	13.214	1.00	39.79	C
ATOM	2508	CB	ALA	323	36.302	76.807	12.262	1.00	39.79	C
ATOM	2509	C	ALA	323	36.890	76.457	14.607	1.00	39.79	C

ATOM	2510	O	ALA	323	37.568	77.317	15.168	1.00	39.79	O
ATOM	2511	N	ASN	324	35.836	75.880	15.216	1.00	111.58	N
ATOM	2512	CA	ASN	324	35.477	76.367	16.519	1.00	111.58	C
ATOM	2513	CB	ASN	324	34.096	75.919	17.050	1.00	111.58	C
ATOM	2514	CG	ASN	324	33.993	74.413	17.220	1.00	111.58	C
ATOM	2515	OD1	ASN	324	33.792	73.682	16.252	1.00	111.58	O
ATOM	2516	ND2	ASN	324	34.090	73.936	18.490	1.00	111.58	N
ATOM	2517	C	ASN	324	36.543	76.048	17.519	1.00	111.58	C
ATOM	2518	O	ASN	324	36.880	76.890	18.348	1.00	111.58	O
ATOM	2519	N	ALA	325	37.129	74.838	17.454	1.00	45.13	N
ATOM	2520	CA	ALA	325	38.142	74.480	18.399	1.00	45.13	C
ATOM	2521	CB	ALA	325	38.709	73.071	18.160	1.00	45.13	C
ATOM	2522	C	ALA	325	39.262	75.444	18.227	1.00	45.13	C
ATOM	2523	O	ALA	325	39.878	75.861	19.207	1.00	45.13	O
ATOM	2524	N	ARG	326	39.565	75.814	16.968	1.00	177.07	N
ATOM	2525	CA	ARG	326	40.651	76.717	16.742	1.00	177.07	C
ATOM	2526	CB	ARG	326	40.886	77.075	15.267	1.00	177.07	C
ATOM	2527	CG	ARG	326	42.214	77.811	15.062	1.00	177.07	C
ATOM	2528	CD	ARG	326	42.230	78.775	13.877	1.00	177.07	C
ATOM	2529	NE	ARG	326	41.603	78.098	12.713	1.00	177.07	N
ATOM	2530	CZ	ARG	326	41.181	78.854	11.658	1.00	177.07	C
ATOM	2531	NH1	ARG	326	41.473	80.186	11.619	1.00	177.07	N
ATOM	2532	NH2	ARG	326	40.444	78.283	10.661	1.00	177.07	N
ATOM	2533	C	ARG	326	40.353	78.016	17.404	1.00	177.07	C
ATOM	2534	O	ARG	326	41.125	78.470	18.241	1.00	177.07	O
ATOM	2535	N	GLY	327	39.174	78.602	17.117	1.00	36.52	N
ATOM	2536	CA	GLY	327	38.877	79.917	17.605	1.00	36.52	C
ATOM	2537	C	GLY	327	38.965	79.898	19.091	1.00	36.52	C
ATOM	2538	O	GLY	327	39.521	80.809	19.702	1.00	36.52	O
ATOM	2539	N	ALA	328	38.423	78.842	19.717	1.00	75.62	N
ATOM	2540	CA	ALA	328	38.451	78.817	21.143	1.00	75.62	C
ATOM	2541	CB	ALA	328	37.728	77.584	21.707	1.00	75.62	C
ATOM	2542	C	ALA	328	39.862	78.765	21.643	1.00	75.62	C
ATOM	2543	O	ALA	328	40.321	79.682	22.325	1.00	75.62	O
ATOM	2544	N	ALA	329	40.619	77.725	21.242	1.00	104.96	N
ATOM	2545	CA	ALA	329	41.936	77.577	21.778	1.00	104.96	C
ATOM	2546	CB	ALA	329	42.650	76.304	21.287	1.00	104.96	C
ATOM	2547	C	ALA	329	42.759	78.719	21.362	1.00	104.96	C
ATOM	2548	O	ALA	329	43.141	79.460	22.230	1.00	104.96	O
ATOM	2549	N	TYR	330	42.913	79.025	20.068	1.00	167.46	N
ATOM	2550	CA	TYR	330	43.892	79.990	19.651	1.00	167.46	C
ATOM	2551	CB	TYR	330	43.921	80.146	18.123	1.00	167.46	C
ATOM	2552	CG	TYR	330	44.679	81.393	17.858	1.00	167.46	C
ATOM	2553	CD1	TYR	330	46.051	81.397	17.907	1.00	167.46	C
ATOM	2554	CD2	TYR	330	44.008	82.564	17.593	1.00	167.46	C
ATOM	2555	CE1	TYR	330	46.751	82.555	17.676	1.00	167.46	C
ATOM	2556	CE2	TYR	330	44.706	83.726	17.362	1.00	167.46	C
ATOM	2557	CZ	TYR	330	46.081	83.721	17.401	1.00	167.46	C
ATOM	2558	OH	TYR	330	46.806	84.908	17.166	1.00	167.46	O
ATOM	2559	C	TYR	330	43.717	81.354	20.259	1.00	167.46	C
ATOM	2560	O	TYR	330	44.689	81.925	20.754	1.00	167.46	O
ATOM	2561	N	GLU	331	42.510	81.946	20.229	1.00	106.23	N
ATOM	2562	CA	GLU	331	42.421	83.287	20.751	1.00	106.23	C
ATOM	2563	CB	GLU	331	41.074	83.956	20.453	1.00	106.23	C
ATOM	2564	CG	GLU	331	41.021	85.431	20.847	1.00	106.23	C
ATOM	2565	CD	GLU	331	39.660	85.951	20.414	1.00	106.23	C
ATOM	2566	OE1	GLU	331	39.012	85.263	19.581	1.00	106.23	O
ATOM	2567	OE2	GLU	331	39.249	87.035	20.905	1.00	106.23	O
ATOM	2568	C	GLU	331	42.628	83.289	22.237	1.00	106.23	C
ATOM	2569	O	GLU	331	43.414	84.063	22.777	1.00	106.23	O
ATOM	2570	N	ILE	332	41.928	82.372	22.917	1.00	249.74	N
ATOM	2571	CA	ILE	332	41.883	82.147	24.333	1.00	249.74	C
ATOM	2572	CB	ILE	332	40.808	81.164	24.702	1.00	249.74	C
ATOM	2573	CG1	ILE	332	39.480	81.668	24.120	1.00	249.74	C
ATOM	2574	CG2	ILE	332	40.731	81.017	26.234	1.00	249.74	C
ATOM	2575	CD1	ILE	332	39.071	83.040	24.652	1.00	249.74	C
ATOM	2576	C	ILE	332	43.218	81.631	24.773	1.00	249.74	C
ATOM	2577	O	ILE	332	43.412	81.336	25.944	1.00	249.74	O
ATOM	2578	N	PHE	333	44.015	81.215	23.777	1.00	169.15	N
ATOM	2579	CA	PHE	333	45.357	80.693	23.785	1.00	169.15	C
ATOM	2580	CB	PHE	333	45.770	80.061	22.443	1.00	169.15	C
ATOM	2581	CG	PHE	333	47.111	79.431	22.510	1.00	169.15	C
ATOM	2582	CD1	PHE	333	48.251	80.166	22.284	1.00	169.15	C
ATOM	2583	CD2	PHE	333	47.217	78.087	22.778	1.00	169.15	C

ATOM	2584	CE1	PHE	333	49.483	79.563	22.337	1.00169.15	C
ATOM	2585	CE2	PHE	333	48.447	77.480	22.833	1.00169.15	C
ATOM	2586	CZ	PHE	333	49.585	78.220	22.613	1.00169.15	C
ATOM	2587	C	PHE	333	46.254	81.853	23.952	1.00169.15	C
ATOM	2588	O	PHE	333	47.273	81.790	24.625	1.00169.15	O
ATOM	2589	N	LYS	334	45.908	82.960	23.280	1.00153.50	N
ATOM	2590	CA	LYS	334	46.647	84.160	23.495	1.00153.50	C
ATOM	2591	CB	LYS	334	46.038	85.367	22.772	1.00153.50	C
ATOM	2592	CG	LYS	334	46.728	86.687	23.115	1.00153.50	C
ATOM	2593	CD	LYS	334	46.123	87.888	22.390	1.00153.50	C
ATOM	2594	CE	LYS	334	46.068	87.720	20.873	1.00153.50	C
ATOM	2595	NZ	LYS	334	45.406	88.892	20.258	1.00153.50	N
ATOM	2596	C	LYS	334	46.388	84.403	24.928	1.00153.50	C
ATOM	2597	O	LYS	334	47.199	84.939	25.675	1.00153.50	O
ATOM	2598	N	ILE	335	45.167	84.049	25.325	1.00 81.80	N
ATOM	2599	CA	ILE	335	44.854	84.118	26.695	1.00 81.80	C
ATOM	2600	CB	ILE	335	43.401	83.870	26.976	1.00 81.80	C
ATOM	2601	CG1	ILE	335	42.543	84.936	26.275	1.00 81.80	C
ATOM	2602	CG2	ILE	335	43.204	83.817	28.500	1.00 81.80	C
ATOM	2603	CD1	ILE	335	41.048	84.620	26.282	1.00 81.80	C
ATOM	2604	C	ILE	335	45.673	83.081	27.400	1.00 81.80	C
ATOM	2605	O	ILE	335	46.164	83.320	28.503	1.00 81.80	O
ATOM	2606	N	ILE	336	45.810	81.881	26.791	1.00147.12	N
ATOM	2607	CA	ILE	336	46.459	80.797	27.472	1.00147.12	C
ATOM	2608	CB	ILE	336	46.280	79.482	26.766	1.00147.12	C
ATOM	2609	CG1	ILE	336	44.791	79.102	26.731	1.00147.12	C
ATOM	2610	CG2	ILE	336	47.157	78.422	27.455	1.00147.12	C
ATOM	2611	CD1	ILE	336	44.476	77.961	25.769	1.00147.12	C
ATOM	2612	C	ILE	336	47.939	81.007	27.663	1.00147.12	C
ATOM	2613	O	ILE	336	48.367	81.382	28.752	1.00147.12	O
ATOM	2614	N	ASP	337	48.737	80.943	26.575	1.00131.92	N
ATOM	2615	CA	ASP	337	50.164	80.951	26.713	1.00131.92	C
ATOM	2616	CB	ASP	337	50.950	80.929	25.389	1.00131.92	C
ATOM	2617	CG	ASP	337	51.012	79.506	24.853	1.00131.92	C
ATOM	2618	OD1	ASP	337	50.281	78.631	25.389	1.00131.92	O
ATOM	2619	OD2	ASP	337	51.797	79.276	23.896	1.00131.92	O
ATOM	2620	C	ASP	337	50.632	82.194	27.450	1.00131.92	C
ATOM	2621	O	ASP	337	51.259	82.089	28.502	1.00131.92	O
ATOM	2622	N	ASN	338	50.233	83.397	26.994	1.00228.80	N
ATOM	2623	CA	ASN	338	50.726	84.688	27.444	1.00228.80	C
ATOM	2624	CB	ASN	338	49.782	85.830	27.092	1.00228.80	C
ATOM	2625	CG	ASN	338	49.758	85.880	25.593	1.00228.80	C
ATOM	2626	OD1	ASN	338	49.616	84.858	24.921	1.00228.80	O
ATOM	2627	ND2	ASN	338	49.903	87.114	25.055	1.00228.80	N
ATOM	2628	C	ASN	338	50.938	84.822	28.955	1.00228.80	C
ATOM	2629	O	ASN	338	50.090	84.430	29.753	1.00228.80	O
ATOM	2630	N	LYS	339	52.125	85.386	29.340	1.00256.61	N
ATOM	2631	CA	LYS	339	52.782	85.691	30.618	1.00256.61	C
ATOM	2632	CB	LYS	339	54.307	85.491	30.565	1.00256.61	C
ATOM	2633	CG	LYS	339	54.746	84.117	31.092	1.00256.61	C
ATOM	2634	CD	LYS	339	54.195	82.895	30.352	1.00256.61	C
ATOM	2635	CE	LYS	339	54.602	81.558	30.991	1.00256.61	C
ATOM	2636	NZ	LYS	339	53.893	81.353	32.279	1.00256.61	N
ATOM	2637	C	LYS	339	52.492	86.974	31.382	1.00256.61	C
ATOM	2638	O	LYS	339	53.206	87.182	32.362	1.00256.61	O
ATOM	2639	N	PRO	340	51.625	87.894	31.045	1.00265.25	N
ATOM	2640	CA	PRO	340	51.639	89.217	31.678	1.00265.25	C
ATOM	2641	CD	PRO	340	50.328	87.558	30.485	1.00265.25	C
ATOM	2642	CB	PRO	340	50.297	89.848	31.304	1.00265.25	C
ATOM	2643	CG	PRO	340	49.378	88.643	31.019	1.00265.25	C
ATOM	2644	C	PRO	340	52.020	89.491	33.149	1.00265.25	C
ATOM	2645	O	PRO	340	53.171	89.855	33.385	1.00265.25	O
ATOM	2646	N	SER	341	51.105	89.375	34.141	1.00271.80	N
ATOM	2647	CA	SER	341	51.359	89.435	35.578	1.00271.80	C
ATOM	2648	CB	SER	341	52.000	88.140	36.091	1.00271.80	C
ATOM	2649	OG	SER	341	53.298	88.004	35.533	1.00271.80	O
ATOM	2650	C	SER	341	52.154	90.586	36.198	1.00271.80	C
ATOM	2651	O	SER	341	52.804	90.368	37.201	1.00271.80	O
ATOM	2652	N	ILE	342	52.184	91.835	35.737	1.00243.14	N
ATOM	2653	CA	ILE	342	52.960	92.868	36.423	1.00243.14	C
ATOM	2654	CB	ILE	342	53.298	93.992	35.502	1.00243.14	C
ATOM	2655	CG1	ILE	342	54.487	94.760	36.076	1.00243.14	C
ATOM	2656	CG2	ILE	342	52.043	94.844	35.261	1.00243.14	C
ATOM	2657	CD1	ILE	342	55.166	95.643	35.039	1.00243.14	C

ATOM	2658	C	ILE	342	52.297	93.413	37.661	1.00243.14
ATOM	2659	O	ILE	342	52.926	93.968	38.568	1.00243.14
ATOM	2660	N	ASP	343	50.965	93.331	37.673	1.00169.26
ATOM	2661	CA	ASP	343	50.095	93.942	38.634	1.00169.26
ATOM	2662	CB	ASP	343	48.611	93.802	38.252	1.00169.26
ATOM	2663	CG	ASP	343	48.225	92.331	38.161	1.00169.26
ATOM	2664	OD1	ASP	343	49.051	91.458	38.541	1.00169.26
ATOM	2665	OD2	ASP	343	47.082	92.064	37.702	1.00169.26
ATOM	2666	C	ASP	343	50.288	93.411	40.015	1.00169.26
ATOM	2667	O	ASP	343	49.636	93.882	40.943	1.00169.26
ATOM	2668	N	SER	344	51.092	92.354	40.196	1.00210.70
ATOM	2669	CA	SER	344	51.226	91.830	41.521	1.00210.70
ATOM	2670	CB	SER	344	50.052	90.909	41.902	1.00210.70
ATOM	2671	OG	SER	344	49.932	89.837	40.979	1.00210.70
ATOM	2672	C	SER	344	52.499	91.069	41.623	1.00210.70
ATOM	2673	O	SER	344	53.385	91.482	42.371	1.00210.70
ATOM	2674	N	TYR	345	52.587	89.907	40.928	1.00300.44
ATOM	2675	CA	TYR	345	53.820	89.185	40.905	1.00300.44
ATOM	2676	CB	TYR	345	55.019	90.122	40.649	1.00300.44
ATOM	2677	CG	TYR	345	56.184	89.336	40.168	1.00300.44
ATOM	2678	CD1	TYR	345	55.982	88.158	39.491	1.00300.44
ATOM	2679	CD2	TYR	345	57.470	89.760	40.406	1.00300.44
ATOM	2680	CE1	TYR	345	57.047	87.421	39.033	1.00300.44
ATOM	2681	CE2	TYR	345	58.539	89.028	39.944	1.00300.44
ATOM	2682	CZ	TYR	345	58.328	87.857	39.258	1.00300.44
ATOM	2683	OH	TYR	345	59.418	87.098	38.783	1.00300.44
ATOM	2684	C	TYR	345	53.917	88.464	42.207	1.00300.44
ATOM	2685	O	TYR	345	53.052	88.626	43.063	1.00300.44
ATOM	2686	N	SER	346	54.834	87.486	42.310	1.00279.47
ATOM	2687	CA	SER	346	55.088	86.901	43.581	1.00279.47
ATOM	2688	CB	SER	346	54.474	85.504	43.752	1.00279.47
ATOM	2689	OG	SER	346	53.059	85.603	43.802	1.00279.47
ATOM	2690	C	SER	346	56.567	86.750	43.634	1.00279.47
ATOM	2691	O	SER	346	57.071	85.670	43.334	1.00279.47
ATOM	2692	N	LYS	347	57.275	87.829	44.050	1.00255.79
ATOM	2693	CA	LYS	347	58.712	87.880	44.067	1.00255.79
ATOM	2694	CB	LYS	347	59.258	88.265	42.677	1.00255.79
ATOM	2695	CG	LYS	347	60.770	88.248	42.408	1.00255.79
ATOM	2696	CD	LYS	347	61.503	89.544	42.748	1.00255.79
ATOM	2697	CE	LYS	347	60.878	90.772	42.081	1.00255.79
ATOM	2698	NZ	LYS	347	61.588	91.998	42.512	1.00255.79
ATOM	2699	C	LYS	347	59.127	88.867	45.182	1.00255.79
ATOM	2700	O	LYS	347	58.268	89.318	45.933	1.00255.79
ATOM	2701	N	SER	348	60.431	89.260	45.317	1.00181.04
ATOM	2702	CA	SER	348	61.064	90.039	46.393	1.00181.04
ATOM	2703	CB	SER	348	62.518	90.430	46.077	1.00181.04
ATOM	2704	OG	SER	348	62.551	91.356	45.000	1.00181.04
ATOM	2705	C	SER	348	60.344	91.327	46.783	1.00181.04
ATOM	2706	O	SER	348	59.256	91.624	46.306	1.00181.04
ATOM	2707	N	GLY	349	60.891	92.124	47.745	1.00 90.41
ATOM	2708	CA	GLY	349	60.167	93.337	48.089	1.00 90.41
ATOM	2709	C	GLY	349	60.601	93.970	49.408	1.00 90.41
ATOM	2710	O	GLY	349	61.772	93.919	49.786	1.00 90.41
ATOM	2711	N	HIS	350	59.623	94.616	50.115	1.00 97.69
ATOM	2712	CA	HIS	350	59.760	95.400	51.342	1.00 97.69
ATOM	2713	ND1	HIS	350	58.606	98.980	52.342	1.00 97.69
ATOM	2714	CG	HIS	350	59.237	97.754	52.316	1.00 97.69
ATOM	2715	CB	HIS	350	59.045	96.764	51.203	1.00 97.69
ATOM	2716	NE2	HIS	350	59.855	98.876	54.176	1.00 97.69
ATOM	2717	CD2	HIS	350	59.998	97.710	53.445	1.00 97.69
ATOM	2718	CE1	HIS	350	59.009	99.609	53.474	1.00 97.69
ATOM	2719	C	HIS	350	59.116	94.666	52.509	1.00 97.69
ATOM	2720	O	HIS	350	58.204	93.874	52.292	1.00 97.69
ATOM	2721	N	LYS	351	59.567	94.900	53.781	1.00177.75
ATOM	2722	CA	LYS	351	59.017	94.160	54.913	1.00177.75
ATOM	2723	CB	LYS	351	60.015	93.131	55.471	1.00177.75
ATOM	2724	CG	LYS	351	60.605	92.169	54.438	1.00177.75
ATOM	2725	CD	LYS	351	59.594	91.243	53.764	1.00177.75
ATOM	2726	CE	LYS	351	60.254	90.249	52.810	1.00177.75
ATOM	2727	NZ	LYS	351	59.229	89.441	52.110	1.00177.75
ATOM	2728	C	LYS	351	58.689	95.027	56.130	1.00177.75
ATOM	2729	O	LYS	351	59.607	95.423	56.850	1.00177.75
ATOM	2730	N	PRO	352	57.434	95.353	56.415	1.00243.86
ATOM	2731	CA	PRO	352	57.116	96.056	57.650	1.00243.86

ATOM	2732	CD	PRO	352	56.520	95.721	55.351	1.00243.86	C
ATOM	2733	CB	PRO	352	55.783	96.752	57.433	1.00243.86	C
ATOM	2734	CG	PRO	352	55.701	96.895	55.911	1.00243.86	C
ATOM	2735	C	PRO	352	57.031	95.090	58.786	1.00243.86	C
ATOM	2736	O	PRO	352	55.942	94.579	59.041	1.00243.86	O
ATOM	2737	N	ASP	353	58.125	94.910	59.531	1.00117.43	N
ATOM	2738	CA	ASP	353	58.224	93.964	60.604	1.00117.43	C
ATOM	2739	CB	ASP	353	59.687	93.637	60.929	1.00117.43	C
ATOM	2740	CG	ASP	353	60.249	92.968	59.679	1.00117.43	C
ATOM	2741	OD1	ASP	353	59.462	92.764	58.714	1.00117.43	O
ATOM	2742	OD2	ASP	353	61.471	92.665	59.663	1.00117.43	O
ATOM	2743	C	ASP	353	57.539	94.474	61.828	1.00117.43	C
ATOM	2744	O	ASP	353	57.224	93.718	62.746	1.00117.43	O
ATOM	2745	N	ASN	354	57.288	95.790	61.854	1.00111.73	N
ATOM	2746	CA	ASN	354	56.773	96.472	62.997	1.00111.73	C
ATOM	2747	CB	ASN	354	56.437	97.938	62.680	1.00111.73	C
ATOM	2748	CG	ASN	354	55.482	97.952	61.493	1.00111.73	C
ATOM	2749	OD1	ASN	354	54.320	97.567	61.601	1.00111.73	O
ATOM	2750	ND2	ASN	354	55.992	98.413	60.319	1.00111.73	N
ATOM	2751	C	ASN	354	55.539	95.792	63.470	1.00111.73	C
ATOM	2752	O	ASN	354	55.263	95.832	64.668	1.00111.73	O
ATOM	2753	N	ILE	355	54.762	95.171	62.554	1.00272.11	N
ATOM	2754	CA	ILE	355	53.525	94.533	62.912	1.00272.11	C
ATOM	2755	CB	ILE	355	53.624	93.194	63.606	1.00272.11	C
ATOM	2756	CG1	ILE	355	54.482	93.238	64.875	1.00272.11	C
ATOM	2757	CG2	ILE	355	54.062	92.160	62.563	1.00272.11	C
ATOM	2758	CD1	ILE	355	54.586	91.899	65.589	1.00272.11	C
ATOM	2759	C	ILE	355	52.588	95.505	63.578	1.00272.11	C
ATOM	2760	O	ILE	355	52.976	96.604	63.946	1.00272.11	O
ATOM	2761	N	LYS	356	51.278	95.201	63.601	1.00252.04	N
ATOM	2762	CA	LYS	356	50.328	96.066	64.259	1.00252.04	C
ATOM	2763	CB	LYS	356	50.715	96.412	65.710	1.00252.04	C
ATOM	2764	CG	LYS	356	50.609	95.246	66.697	1.00252.04	C
ATOM	2765	CD	LYS	356	49.178	94.746	66.916	1.00252.04	C
ATOM	2766	CE	LYS	356	49.076	93.592	67.916	1.00252.04	C
ATOM	2767	NZ	LYS	356	49.587	94.021	69.238	1.00252.04	N
ATOM	2768	C	LYS	356	50.159	97.356	63.502	1.00252.04	C
ATOM	2769	O	LYS	356	51.106	97.948	62.986	1.00252.04	O
ATOM	2770	N	GLY	357	48.908	97.847	63.411	1.00 61.54	N
ATOM	2771	CA	GLY	357	48.719	99.093	62.724	1.00 61.54	C
ATOM	2772	C	GLY	357	47.276	99.258	62.367	1.00 61.54	C
ATOM	2773	O	GLY	357	46.458	98.355	62.534	1.00 61.54	O
ATOM	2774	N	ASN	358	46.935	100.442	61.827	1.00 78.46	N
ATOM	2775	CA	ASN	358	45.571	100.745	61.498	1.00 78.46	C
ATOM	2776	CB	ASN	358	45.123	102.122	62.016	1.00 78.46	C
ATOM	2777	CG	ASN	358	45.224	102.120	63.534	1.00 78.46	C
ATOM	2778	OD1	ASN	358	46.272	101.811	64.099	1.00 78.46	O
ATOM	2779	ND2	ASN	358	44.108	102.486	64.217	1.00 78.46	N
ATOM	2780	C	ASN	358	45.460	100.806	60.015	1.00 78.46	C
ATOM	2781	O	ASN	358	46.382	101.230	59.322	1.00 78.46	O
ATOM	2782	N	LEU	359	44.312	100.345	59.491	1.00126.33	N
ATOM	2783	CA	LEU	359	44.062	100.408	58.082	1.00126.33	C
ATOM	2784	CB	LEU	359	42.853	99.560	57.660	1.00126.33	C
ATOM	2785	CG	LEU	359	43.052	98.047	57.864	1.00126.33	C
ATOM	2786	CD1	LEU	359	43.301	97.707	59.341	1.00126.33	C
ATOM	2787	CD2	LEU	359	41.884	97.248	57.265	1.00126.33	C
ATOM	2788	C	LEU	359	43.716	101.826	57.790	1.00126.33	C
ATOM	2789	O	LEU	359	43.069	102.484	58.601	1.00126.33	O
ATOM	2790	N	GLU	360	44.155	102.352	56.632	1.00138.20	N
ATOM	2791	CA	GLU	360	43.824	103.714	56.338	1.00138.20	C
ATOM	2792	CB	GLU	360	45.036	104.658	56.463	1.00138.20	C
ATOM	2793	CG	GLU	360	45.815	104.543	57.781	1.00138.20	C
ATOM	2794	CD	GLU	360	44.937	104.943	58.959	1.00138.20	C
ATOM	2795	OE1	GLU	360	43.688	104.929	58.806	1.00138.20	O
ATOM	2796	OE2	GLU	360	45.511	105.254	60.038	1.00138.20	O
ATOM	2797	C	GLU	360	43.424	103.765	54.899	1.00138.20	C
ATOM	2798	O	GLU	360	44.279	103.727	54.019	1.00138.20	O
ATOM	2799	N	PHE	361	42.114	103.864	54.607	1.00154.69	N
ATOM	2800	CA	PHE	361	41.729	103.988	53.232	1.00154.69	C
ATOM	2801	CB	PHE	361	40.377	103.326	52.918	1.00154.69	C
ATOM	2802	CG	PHE	361	40.586	101.851	52.890	1.00154.69	C
ATOM	2803	CD1	PHE	361	40.592	101.105	54.047	1.00154.69	C
ATOM	2804	CD2	PHE	361	40.796	101.213	51.689	1.00154.69	C
ATOM	2805	CE1	PHE	361	40.789	99.744	54.001	1.00154.69	C

ATOM	2806	CE2	PHE	361	40.992	99.853	51.638	1.00154.69	C
ATOM	2807	CZ	PHE	361	40.989	99.114	52.796	1.00154.69	C
ATOM	2808	C	PHE	361	41.591	105.456	53.015	1.00154.69	C
ATOM	2809	O	PHE	361	40.632	106.068	53.481	1.00154.69	O
ATOM	2810	N	ARG	362	42.549	106.072	52.294	1.00124.66	N
ATOM	2811	CA	ARG	362	42.474	107.497	52.203	1.00124.66	C
ATOM	2812	CB	ARG	362	43.755	108.196	52.696	1.00124.66	C
ATOM	2813	CG	ARG	362	44.080	107.897	54.161	1.00124.66	C
ATOM	2814	CD	ARG	362	43.807	109.046	55.135	1.00124.66	C
ATOM	2815	NE	ARG	362	44.089	108.529	56.505	1.00124.66	N
ATOM	2816	CZ	ARG	362	44.538	109.361	57.490	1.00124.66	C
ATOM	2817	NH1	ARG	362	44.776	110.679	57.224	1.00124.66	N
ATOM	2818	NH2	ARG	362	44.749	108.871	58.748	1.00124.66	N
ATOM	2819	C	ARG	362	42.254	107.929	50.792	1.00124.66	C
ATOM	2820	O	ARG	362	43.109	107.722	49.931	1.00124.66	O
ATOM	2821	N	ASN	363	41.076	108.550	50.555	1.00 79.94	N
ATOM	2822	CA	ASN	363	40.689	109.163	49.314	1.00 79.94	C
ATOM	2823	CB	ASN	363	41.298	110.565	49.144	1.00 79.94	C
ATOM	2824	CG	ASN	363	40.797	111.181	47.847	1.00 79.94	C
ATOM	2825	OD1	ASN	363	39.816	110.732	47.258	1.00 79.94	O
ATOM	2826	ND2	ASN	363	41.504	112.248	47.387	1.00 79.94	N
ATOM	2827	C	ASN	363	41.111	108.314	48.162	1.00 79.94	C
ATOM	2828	O	ASN	363	41.970	108.720	47.381	1.00 79.94	O
ATOM	2829	N	VAL	364	40.533	107.105	48.024	1.00111.65	N
ATOM	2830	CA	VAL	364	40.981	106.258	46.960	1.00111.65	C
ATOM	2831	CB	VAL	364	41.395	104.897	47.440	1.00111.65	C
ATOM	2832	CG1	VAL	364	40.177	104.194	48.062	1.00111.65	C
ATOM	2833	CG2	VAL	364	42.030	104.135	46.267	1.00111.65	C
ATOM	2834	C	VAL	364	39.913	106.087	45.930	1.00111.65	C
ATOM	2835	O	VAL	364	38.789	105.674	46.215	1.00111.65	O
ATOM	2836	N	HIS	365	40.278	106.405	44.676	1.00 66.75	N
ATOM	2837	CA	HIS	365	39.409	106.238	43.560	1.00 66.75	C
ATOM	2838	ND1	HIS	365	39.711	109.375	44.176	1.00 66.75	N
ATOM	2839	CG	HIS	365	39.012	108.694	43.204	1.00 66.75	C
ATOM	2840	CB	HIS	365	39.480	107.416	42.575	1.00 66.75	C
ATOM	2841	NE2	HIS	365	37.840	110.522	43.819	1.00 66.75	N
ATOM	2842	CD2	HIS	365	37.872	109.410	42.997	1.00 66.75	C
ATOM	2843	CE1	HIS	365	38.965	110.459	44.509	1.00 66.75	C
ATOM	2844	C	HIS	365	39.957	105.033	42.881	1.00 66.75	C
ATOM	2845	O	HIS	365	41.165	104.800	42.908	1.00 66.75	O
ATOM	2846	N	PHE	366	39.077	104.194	42.314	1.00 97.41	N
ATOM	2847	CA	PHE	366	39.565	103.020	41.678	1.00 97.41	C
ATOM	2848	CB	PHE	366	39.877	101.896	42.685	1.00 97.41	C
ATOM	2849	CG	PHE	366	40.090	100.639	41.920	1.00 97.41	C
ATOM									

ATOM	2880	C	PRO	369	40.803	97.555	34.003	1.00126.63
ATOM	2881	O	PRO	369	41.542	97.966	33.112	1.00126.63
ATOM	2882	N	SER	370	39.533	97.189	33.778	1.00121.43
ATOM	2883	CA	SER	370	38.997	97.515	32.496	1.00121.43
ATOM	2884	CB	SER	370	37.593	96.933	32.295	1.00121.43
ATOM	2885	OG	SER	370	37.106	97.264	31.008	1.00121.43
ATOM	2886	C	SER	370	38.918	99.007	32.530	1.00121.43
ATOM	2887	O	SER	370	38.272	99.591	33.389	1.00121.43
ATOM	2888	N	ARG	371	39.520	99.690	31.560	1.00165.86
ATOM	2889	CA	ARG	371	39.636	101.121	31.663	1.00165.86
ATOM	2890	CB	ARG	371	40.377	101.775	30.488	1.00165.86
ATOM	2891	CG	ARG	371	41.861	102.028	30.746	1.00165.86
ATOM	2892	CD	ARG	371	42.087	103.448	31.272	1.00165.86
ATOM	2893	NE	ARG	371	43.549	103.731	31.293	1.00165.86
ATOM	2894	CZ	ARG	371	43.977	105.027	31.337	1.00165.86
ATOM	2895	NH1	ARG	371	43.069	106.046	31.361	1.00165.86
ATOM	2896	NH2	ARG	371	45.313	105.308	31.351	1.00165.86
ATOM	2897	C	ARG	371	38.332	101.863	31.787	1.00165.86
ATOM	2898	O	ARG	371	38.293	102.916	32.420	1.00165.86
ATOM	2899	N	LYS	372	37.261	101.402	31.125	1.00214.28
ATOM	2900	CA	LYS	372	36.014	102.125	31.057	1.00214.28
ATOM	2901	CB	LYS	372	35.121	101.645	29.895	1.00214.28
ATOM	2902	CG	LYS	372	34.940	100.128	29.810	1.00214.28
ATOM	2903	CD	LYS	372	36.227	99.386	29.444	1.00214.28
ATOM	2904	CE	LYS	372	36.619	99.509	27.973	1.00214.28
ATOM	2905	NZ	LYS	372	35.875	98.518	27.168	1.00214.28
ATOM	2906	C	LYS	372	35.153	102.191	32.289	1.00214.28
ATOM	2907	O	LYS	372	34.607	103.257	32.572	1.00214.28
ATOM	2908	N	GLU	373	35.019	101.091	33.061	1.00 99.59
ATOM	2909	CA	GLU	373	34.016	101.018	34.098	1.00 99.59
ATOM	2910	CB	GLU	373	34.099	99.783	35.019	1.00 99.59
ATOM	2911	CG	GLU	373	34.026	98.419	34.332	1.00 99.59
ATOM	2912	CD	GLU	373	35.425	97.822	34.382	1.00 99.59
ATOM	2913	OE1	GLU	373	36.372	98.576	34.719	1.00 99.59
ATOM	2914	OE2	GLU	373	35.560	96.597	34.108	1.00 99.59
ATOM	2915	C	GLU	373	34.104	102.182	35.027	1.00 99.59
ATOM	2916	O	GLU	373	35.129	102.853	35.138	1.00 99.59
ATOM	2917	N	VAL	374	32.972	102.471	35.696	1.00100.30
ATOM	2918	CA	VAL	374	32.937	103.561	36.617	1.00100.30
ATOM	2919	CB	VAL	374	31.592	103.789	37.242	1.00100.30
ATOM	2920	CG1	VAL	374	31.231	102.559	38.094	1.00100.30
ATOM	2921	CG2	VAL	374	31.648	105.099	38.044	1.00100.30
ATOM	2922	C	VAL	374	33.888	103.244	37.716	1.00100.30
ATOM	2923	O	VAL	374	34.036	102.090	38.116	1.00100.30
ATOM	2924	N	LYS	375	34.589	104.275	38.218	1.00140.62
ATOM	2925	CA	LYS	375	35.494	104.001	39.286	1.00140.62
ATOM	2926	CB	LYS	375	36.273	105.249	39.739	1.00140.62
ATOM	2927	CG	LYS	375	35.367	106.458	39.984	1.00140.62
ATOM	2928	CD	LYS	375	36.033	107.596	40.757	1.00140.62
ATOM	2929	CE	LYS	375	35.207	108.882	40.736	1.00140.62
ATOM	2930	NZ	LYS	375	33.808	108.584	41.116	1.00140.62
ATOM	2931	C	LYS	375	34.646	103.538	40.414	1.00140.62
ATOM	2932	O	LYS	375	34.024	104.344	41.104	1.00140.62
ATOM	2933	N	ILE	376	34.686	102.217	40.668	1.00133.39
ATOM	2934	CA	ILE	376	33.876	101.577	41.654	1.00133.39
ATOM	2935	CB	ILE	376	34.348	100.176	41.877	1.00133.39
ATOM	2936	CG1	ILE	376	34.099	99.319	40.628	1.00133.39
ATOM	2937	CG2	ILE	376	33.723	99.657	43.178	1.00133.39
ATOM	2938	CD1	ILE	376	34.935	99.707	39.408	1.00133.39
ATOM	2939	C	ILE	376	34.154	102.312	42.914	1.00133.39
ATOM	2940	O	ILE	376	33.231	102.770	43.584	1.00133.39
ATOM	2941	N	LEU	377	35.445	102.493	43.243	1.00114.11
ATOM	2942	CA	LEU	377	35.720	103.340	44.358	1.00114.11
ATOM	2943	CB	LEU	377	37.041	103.048	45.098	1.00114.11
ATOM	2944	CG	LEU	377	37.047	101.689	45.829	1.00114.11
ATOM	2945	CD1	LEU	377	38.226	101.576	46.809	1.00114.11
ATOM	2946	CD2	LEU	377	35.691	101.406	46.491	1.00114.11
ATOM	2947	C	LEU	377	35.794	104.710	43.758	1.00114.11
ATOM	2948	O	LEU	377	36.795	105.106	43.171	1.00114.11
ATOM	2949	N	LYS	378	34.692	105.455	43.911	1.00221.48
ATOM	2950	CA	LYS	378	34.383	106.764	43.405	1.00221.48
ATOM	2951	CB	LYS	378	32.890	107.130	43.494	1.00221.48
ATOM	2952	CG	LYS	378	32.397	107.467	44.902	1.00221.48
ATOM	2953	CD	LYS	378	32.499	106.319	45.907	1.00221.48

ATOM	2954	CE	LYS	378	31.320	105.347	45.853	1.00221.48	C
ATOM	2955	NZ	LYS	378	31.509	104.279	46.858	1.00221.48	N
ATOM	2956	C	LYS	378	35.153	107.831	44.119	1.00221.48	C
ATOM	2957	O	LYS	378	34.835	109.011	43.968	1.00221.48	O
ATOM	2958	N	GLY	379	36.137	107.468	44.966	1.00 78.13	N
ATOM	2959	CA	GLY	379	36.735	108.483	45.785	1.00 78.13	C
ATOM	2960	C	GLY	379	36.202	108.223	47.148	1.00 78.13	C
ATOM	2961	O	GLY	379	35.243	108.844	47.608	1.00 78.13	O
ATOM	2962	N	LEU	380	36.796	107.192	47.783	1.00150.70	N
ATOM	2963	CA	LEU	380	36.350	106.726	49.058	1.00150.70	C
ATOM	2964	CB	LEU	380	36.017	105.217	49.018	1.00150.70	C
ATOM	2965	CG	LEU	380	35.722	104.550	50.374	1.00150.70	C
ATOM	2966	CD1	LEU	380	37.019	104.242	51.138	1.00150.70	C
ATOM	2967	CD2	LEU	380	34.729	105.383	51.202	1.00150.70	C
ATOM	2968	C	LEU	380	37.367	106.986	50.119	1.00150.70	C
ATOM	2969	O	LEU	380	38.569	106.801	49.932	1.00150.70	O
ATOM	2970	N	ASN	381	36.859	107.446	51.278	1.00 70.88	N
ATOM	2971	CA	ASN	381	37.637	107.722	52.445	1.00 70.88	C
ATOM	2972	CB	ASN	381	37.444	109.153	52.977	1.00 70.88	C
ATOM	2973	CG	ASN	381	38.149	110.111	52.032	1.00 70.88	C
ATOM	2974	OD1	ASN	381	39.376	110.185	52.015	1.00 70.88	O
ATOM	2975	ND2	ASN	381	37.358	110.863	51.221	1.00 70.88	N
ATOM	2976	C	ASN	381	37.119	106.820	53.508	1.00 70.88	C
ATOM	2977	O	ASN	381	35.906	106.646	53.653	1.00 70.88	O
ATOM	2978	N	LEU	382	38.041	106.188	54.256	1.00150.60	N
ATOM	2979	CA	LEU	382	37.607	105.327	55.305	1.00150.60	C
ATOM	2980	CB	LEU	382	37.061	103.985	54.757	1.00150.60	C
ATOM	2981	CG	LEU	382	36.520	102.937	55.762	1.00150.60	C
ATOM	2982	CD1	LEU	382	35.947	101.731	55.003	1.00150.60	C
ATOM	2983	CD2	LEU	382	37.559	102.483	56.801	1.00150.60	C
ATOM	2984	C	LEU	382	38.814	105.051	56.130	1.00150.60	C
ATOM	2985	O	LEU	382	39.922	104.881	55.623	1.00150.60	O
ATOM	2986	N	LYS	383	38.618	105.021	57.453	1.00195.14	N
ATOM	2987	CA	LYS	383	39.704	104.686	58.310	1.00195.14	C
ATOM	2988	CB	LYS	383	40.302	105.898	59.049	1.00195.14	C
ATOM	2989	CG	LYS	383	39.264	106.925	59.512	1.00195.14	C
ATOM	2990	CD	LYS	383	38.285	106.424	60.573	1.00195.14	C
ATOM	2991	CE	LYS	383	37.347	107.519	61.089	1.00195.14	C
ATOM	2992	NZ	LYS	383	36.589	108.112	59.964	1.00195.14	N
ATOM	2993	C	LYS	383	39.156	103.726	59.299	1.00195.14	C
ATOM	2994	O	LYS	383	37.957	103.740	59.579	1.00195.14	O
ATOM	2995	N	VAL	384	40.017	102.814	59.792	1.00106.26	N
ATOM	2996	CA	VAL	384	39.552	101.883	60.772	1.00106.26	C
ATOM	2997	CB	VAL	384	39.265	100.528	60.188	1.00106.26	C
ATOM	2998	CG1	VAL	384	38.994	99.528	61.319	1.00106.26	C
ATOM	2999	CG2	VAL	384	38.084	100.663	59.222	1.00106.26	C
ATOM	3000	C	VAL	384	40.645	101.725	61.782	1.00106.26	C
ATOM	3001	O	VAL	384	41.774	101.356	61.453	1.00106.26	O
ATOM	3002	N	GLN	385	40.305	101.966	63.062	1.00121.92	N
ATOM	3003	CA	GLN	385	41.267	101.893	64.117	1.00121.92	C
ATOM	3004	CB	GLN	385	40.801	102.444	65.477	1.00121.92	C
ATOM	3005	CG	GLN	385	40.726	103.971	65.543	1.00121.92	C
ATOM	3006	CD	GLN	385	39.455	104.418	64.842	1.00121.92	C
ATOM	3007	OE1	GLN	385	38.364	103.934	65.142	1.00121.92	O
ATOM	3008	NE2	GLN	385	39.597	105.368	63.879	1.00121.92	N
ATOM	3009	C	GLN	385	41.672	100.475	64.325	1.00121.92	C
ATOM	3010	O	GLN	385	41.080	99.553	63.766	1.00121.92	O
ATOM	3011	N	SER	386	42.746	100.284	65.118	1.00 66.26	N
ATOM	3012	CA	SER	386	43.246	98.973	65.390	1.00 66.26	C
ATOM	3013	CB	SER	386	44.644	98.959	66.040	1.00 66.26	C
ATOM	3014	OG	SER	386	44.589	99.503	67.351	1.00 66.26	O
ATOM	3015	C	SER	386	42.303	98.303	66.331	1.00 66.26	C
ATOM	3016	O	SER	386	41.427	98.932	66.919	1.00 66.26	O
ATOM	3017	N	GLY	387	42.399	96.964	66.389	1.00 59.60	N
ATOM	3018	CA	GLY	387	41.685	96.153	67.331	1.00 59.60	C
ATOM	3019	C	GLY	387	40.206	96.177	67.058	1.00 59.60	C
ATOM	3020	O	GLY	387	39.463	95.363	67.599	1.00 59.60	O
ATOM	3021	N	GLN	388	39.735	97.089	66.189	1.00 97.16	N
ATOM	3022	CA	GLN	388	38.326	97.219	65.952	1.00 97.16	C
ATOM	3023	CB	GLN	388	37.898	98.608	65.453	1.00 97.16	C
ATOM	3024	CG	GLN	388	38.095	99.707	66.496	1.00 97.16	C
ATOM	3025	CD	GLN	388	37.516	100.993	65.928	1.00 97.16	C
ATOM	3026	OE1	GLN	388	37.734	101.328	64.765	1.00 97.16	O
ATOM	3027	NE2	GLN	388	36.741	101.727	66.770	1.00 97.16	N

ATOM	3028	C	GLN	388	37.917	96.229	64.921	1.00	97.16	C
ATOM	3029	O	GLN	388	38.710	95.393	64.486	1.00	97.16	O
ATOM	3030	N	THR	389	36.609	96.234	64.596	1.00	84.89	N
ATOM	3031	CA	THR	389	36.128	95.421	63.522	1.00	84.89	C
ATOM	3032	CB	THR	389	35.510	94.125	63.959	1.00	84.89	C
ATOM	3033	OG1	THR	389	34.314	94.362	64.685	1.00	84.89	O
ATOM	3034	CG2	THR	389	36.522	93.379	64.845	1.00	84.89	C
ATOM	3035	C	THR	389	35.060	96.236	62.858	1.00	84.89	C
ATOM	3036	O	THR	389	34.137	96.711	63.518	1.00	84.89	O
ATOM	3037	N	VAL	390	35.150	96.415	61.526	1.00	115.63	N
ATOM	3038	CA	VAL	390	34.184	97.241	60.851	1.00	115.63	C
ATOM	3039	CB	VAL	390	34.798	98.352	60.048	1.00	115.63	C
ATOM	3040	CG1	VAL	390	35.704	97.737	58.966	1.00	115.63	C
ATOM	3041	CG2	VAL	390	33.665	99.212	59.462	1.00	115.63	C
ATOM	3042	C	VAL	390	33.379	96.411	59.895	1.00	115.63	C
ATOM	3043	O	VAL	390	33.883	95.468	59.284	1.00	115.63	O
ATOM	3044	N	ALA	391	32.086	96.765	59.736	1.00	62.70	N
ATOM	3045	CA	ALA	391	31.229	95.999	58.869	1.00	62.70	C
ATOM	3046	CB	ALA	391	29.880	95.629	59.508	1.00	62.70	C
ATOM	3047	C	ALA	391	30.920	96.782	57.630	1.00	62.70	C
ATOM	3048	O	ALA	391	30.564	97.958	57.678	1.00	62.70	O
ATOM	3049	N	LEU	392	31.050	96.135	56.462	1.00	115.66	N
ATOM	3050	CA	LEU	392	30.709	96.807	55.243	1.00	115.66	C
ATOM	3051	CB	LEU	392	31.766	96.687	54.133	1.00	115.66	C
ATOM	3052	CG	LEU	392	33.046	97.488	54.417	1.00	115.66	C
ATOM	3053	CD1	LEU	392	33.711	97.031	55.722	1.00	115.66	C
ATOM	3054	CD2	LEU	392	34.004	97.452	53.214	1.00	115.66	C
ATOM	3055	C	LEU	392	29.445	96.197	54.736	1.00	115.66	C
ATOM	3056	O	LEU	392	29.277	94.976	54.744	1.00	115.66	O
ATOM	3057	N	VAL	393	28.501	97.042	54.294	1.00	150.65	N
ATOM	3058	CA	VAL	393	27.273	96.465	53.842	1.00	150.65	C
ATOM	3059	CB	VAL	393	26.123	96.901	54.703	1.00	150.65	C
ATOM	3060	CG1	VAL	393	24.846	96.252	54.188	1.00	150.65	C
ATOM	3061	CG2	VAL	393	26.440	96.570	56.170	1.00	150.65	C
ATOM	3062	C	VAL	393	27.019	96.920	52.430	1.00	150.65	C
ATOM	3063	O	VAL	393	26.873	98.114	52.188	1.00	150.65	O
ATOM	3064	N	GLY	394	26.923	95.978	51.459	1.00	82.14	N
ATOM	3065	CA	GLY	394	26.712	96.314	50.069	1.00	82.14	C
ATOM	3066	C	GLY	394	25.933	95.195	49.435	1.00	82.14	C
ATOM	3067	O	GLY	394	25.611	94.211	50.102	1.00	82.14	O
ATOM	3068	N	ASN	395	25.589	95.318	48.126	1.00	193.01	N
ATOM	3069	CA	ASN	395	24.798	94.266	47.547	1.00	193.01	C
ATOM	3070	CB	ASN	395	23.307	94.419	47.893	1.00	193.01	C
ATOM	3071	CG	ASN	395	22.643	93.072	47.666	1.00	193.01	C
ATOM	3072	OD1	ASN	395	22.946	92.096	48.352	1.00	193.01	O
ATOM	3073	ND2	ASN	395	21.710	93.014	46.678	1.00	193.01	N
ATOM	3074	C	ASN	395	24.914	94.216	46.051	1.00	193.01	C
ATOM	3075	O	ASN	395	25.112	93.144	45.483	1.00	193.01	O
ATOM	3076	N	SER	396	24.812	95.372	45.363	1.00	136.17	N
ATOM	3077	CA	SER	396	24.817	95.434	43.923	1.00	136.17	C
ATOM	3078	CB	SER	396	24.461	96.828	43.399	1.00	136.17	C
ATOM	3079	OG	SER	396	24.523	96.835	41.983	1.00	136.17	O
ATOM	3080	C	SER	396	26.160	95.027	43.405	1.00	136.17	C
ATOM	3081	O	SER	396	26.416	95.082	42.203	1.00	136.17	O
ATOM	3082	N	GLY	397	27.074	94.682	44.324	1.00	55.96	N
ATOM	3083	CA	GLY	397	28.341	94.110	43.988	1.00	55.96	C
ATOM	3084	C	GLY	397	29.277	95.160	43.509	1.00	55.96	C
ATOM	3085	O	GLY	397	28.981	96.347	43.485	1.00	55.96	O
ATOM	3086	N	CYS	398	30.450	94.724	43.045	1.00	144.17	N
ATOM	3087	CA	CYS	398	31.384	95.652	42.508	1.00	144.17	C
ATOM	3088	CB	CYS	398	30.848	96.243	41.195	1.00	144.17	C
ATOM	3089	SG	CYS	398	32.119	97.031	40.179	1.00	144.17	S
ATOM	3090	C	CYS	398	31.727	96.762	43.463	1.00	144.17	C
ATOM	3091	O	CYS	398	31.596	97.940	43.129	1.00	144.17	O
ATOM	3092	N	GLY	399	32.271	96.416	44.652	1.00	221.23	N
ATOM	3093	CA	GLY	399	32.736	97.473	45.507	1.00	221.23	C
ATOM	3094	C	GLY	399	33.140	96.980	46.866	1.00	221.23	C
ATOM	3095	O	GLY	399	34.339	96.959	47.158	1.00	221.23	O
ATOM	3096	N	LYS	400	32.201	96.491	47.695	1.00	189.81	N
ATOM	3097	CA	LYS	400	32.545	96.153	49.055	1.00	189.81	C
ATOM	3098	CB	LYS	400	31.374	95.504	49.808	1.00	189.81	C
ATOM	3099	CG	LYS	400	30.135	96.390	49.887	1.00	189.81	C
ATOM	3100	CD	LYS	400	29.486	96.625	48.522	1.00	189.81	C
ATOM	3101	CE	LYS	400	29.162	95.334	47.773	1.00	189.81	C

ATOM	3102	NZ	LYS	400	28.535	95.656	46.477	1.00189.81	N
ATOM	3103	C	LYS	400	33.652	95.153	49.054	1.00189.81	C
ATOM	3104	O	LYS	400	34.750	95.449	49.522	1.00189.81	O
ATOM	3105	N	SER	401	33.431	94.014	48.380	1.00 98.58	N
ATOM	3106	CA	SER	401	34.369	92.942	48.359	1.00 98.58	C
ATOM	3107	CB	SER	401	33.950	91.818	47.401	1.00 98.58	C
ATOM	3108	OG	SER	401	33.935	92.308	46.068	1.00 98.58	O
ATOM	3109	C	SER	401	35.660	93.486	47.850	1.00 98.58	C
ATOM	3110	O	SER	401	36.700	93.035	48.317	1.00 98.58	O
ATOM	3111	N	THR	402	35.607	94.468	46.912	1.00120.43	N
ATOM	3112	CA	THR	402	36.730	95.056	46.217	1.00120.43	C
ATOM	3113	CB	THR	402	36.290	95.975	45.125	1.00120.43	C
ATOM	3114	OG1	THR	402	35.382	95.296	44.274	1.00120.43	O
ATOM	3115	CG2	THR	402	37.532	96.402	44.318	1.00120.43	C
ATOM	3116	C	THR	402	37.633	95.855	47.105	1.00120.43	C
ATOM	3117	O	THR	402	38.852	95.802	46.973	1.00120.43	O
ATOM	3118	N	THR	403	37.078	96.680	48.001	1.00142.91	N
ATOM	3119	CA	THR	403	37.946	97.419	48.868	1.00142.91	C
ATOM	3120	CB	THR	403	37.177	98.318	49.781	1.00142.91	C
ATOM	3121	OG1	THR	403	36.275	99.106	49.022	1.00142.91	O
ATOM	3122	CG2	THR	403	38.173	99.246	50.498	1.00142.91	C
ATOM	3123	C	THR	403	38.594	96.379	49.723	1.00142.91	C
ATOM	3124	O	THR	403	39.783	96.436	50.034	1.00142.91	O
ATOM	3125	N	VAL	404	37.795	95.362	50.097	1.00 92.15	N
ATOM	3126	CA	VAL	404	38.257	94.265	50.889	1.00 92.15	C
ATOM	3127	CB	VAL	404	37.195	93.235	51.143	1.00 92.15	C
ATOM	3128	CG1	VAL	404	37.841	92.037	51.857	1.00 92.15	C
ATOM	3129	CG2	VAL	404	36.049	93.885	51.936	1.00 92.15	C
ATOM	3130	C	VAL	404	39.303	93.625	50.072	1.00 92.15	C
ATOM	3131	O	VAL	404	40.162	92.911	50.588	1.00 92.15	O
ATOM	3132	N	GLN	405	39.157	93.793	48.746	1.00155.70	N
ATOM	3133	CA	GLN	405	40.056	93.186	47.837	1.00155.70	C
ATOM	3134	CB	GLN	405	39.539	93.224	46.389	1.00155.70	C
ATOM	3135	CG	GLN	405	40.122	92.122	45.518	1.00155.70	C
ATOM	3136	CD	GLN	405	39.330	90.882	45.898	1.00155.70	C
ATOM	3137	OE1	GLN	405	38.126	90.809	45.657	1.00155.70	O
ATOM	3138	NE2	GLN	405	40.008	89.893	46.537	1.00155.70	N
ATOM	3139	C	GLN	405	41.431	93.801	47.833	1.00155.70	C
ATOM	3140	O	GLN	405	42.388	93.139	48.225	1.00155.70	O
ATOM	3141	N	LEU	406	41.539	95.113	47.501	1.00234.46	N
ATOM	3142	CA	LEU	406	42.790	95.807	47.341	1.00234.46	C
ATOM	3143	CB	LEU	406	42.724	97.200	46.663	1.00234.46	C
ATOM	3144	CG	LEU	406	41.993	98.344	47.395	1.00234.46	C
ATOM	3145	CD1	LEU	406	40.501	98.053	47.547	1.00234.46	C
ATOM	3146	CD2	LEU	406					

ATOM	3176	O	ARG	409	47.249	93.953	44.867	1.00182.43	O
ATOM	3177	N	LEU	410	45.311	93.356	45.882	1.00162.67	N
ATOM	3178	CA	LEU	410	44.900	92.537	44.807	1.00162.67	C
ATOM	3179	CB	LEU	410	43.530	91.893	45.036	1.00162.67	C
ATOM	3180	CG	LEU	410	43.269	90.717	44.088	1.00162.67	C
ATOM	3181	CD1	LEU	410	44.391	89.676	44.174	1.00162.67	C
ATOM	3182	CD2	LEU	410	41.944	90.048	44.434	1.00162.67	C
ATOM	3183	C	LEU	410	44.917	93.422	43.591	1.00162.67	C
ATOM	3184	O	LEU	410	45.283	92.973	42.516	1.00162.67	O
ATOM	3185	N	TYR	411	44.556	94.716	43.723	1.00128.57	N
ATOM	3186	CA	TYR	411	44.704	95.651	42.633	1.00128.57	C
ATOM	3187	CB	TYR	411	43.383	96.223	42.094	1.00128.57	C
ATOM	3188	CG	TYR	411	42.555	95.210	41.385	1.00128.57	C
ATOM	3189	CD1	TYR	411	41.844	94.259	42.078	1.00128.57	C
ATOM	3190	CD2	TYR	411	42.466	95.245	40.012	1.00128.57	C
ATOM	3191	CE1	TYR	411	41.068	93.346	41.403	1.00128.57	C
ATOM	3192	CE2	TYR	411	41.692	94.337	39.332	1.00128.57	C
ATOM	3193	CZ	TYR	411	40.992	93.384	40.030	1.00128.57	C
ATOM	3194	OH	TYR	411	40.197	92.446	39.338	1.00128.57	O
ATOM	3195	C	TYR	411	45.363	96.855	43.204	1.00128.57	C
ATOM	3196	O	TYR	411	45.066	97.221	44.338	1.00128.57	O
ATOM	3197	N	ASP	412	46.267	97.513	42.445	1.00119.15	N
ATOM	3198	CA	ASP	412	46.817	98.728	42.987	1.00119.15	C
ATOM	3199	CB	ASP	412	48.013	99.319	42.220	1.00119.15	C
ATOM	3200	CG	ASP	412	49.288	98.619	42.659	1.00119.15	C
ATOM	3201	OD1	ASP	412	49.197	97.569	43.347	1.00119.15	O
ATOM	3202	OD2	ASP	412	50.381	99.152	42.326	1.00119.15	O
ATOM	3203	C	ASP	412	45.729	99.764	42.962	1.00119.15	C
ATOM	3204	O	ASP	412	44.834	99.687	42.125	1.00119.15	O
ATOM	3205	N	PRO	413	45.748	100.734	43.847	1.00114.70	N
ATOM	3206	CA	PRO	413	44.712	101.733	43.861	1.00114.70	C
ATOM	3207	CD	PRO	413	46.401	100.613	45.139	1.00114.70	C
ATOM	3208	CB	PRO	413	44.772	102.405	45.237	1.00114.70	C
ATOM	3209	CG	PRO	413	46.130	101.968	45.819	1.00114.70	C
ATOM	3210	C	PRO	413	44.833	102.666	42.705	1.00114.70	C
ATOM	3211	O	PRO	413	45.946	103.070	42.370	1.00114.70	O
ATOM	3212	N	THR	414	43.693	103.031	42.088	1.00 48.41	N
ATOM	3213	CA	THR	414	43.726	103.904	40.954	1.00 48.41	C
ATOM	3214	CB	THR	414	42.368	104.113	40.349	1.00 48.41	C
ATOM	3215	OG1	THR	414	41.821	102.872	39.930	1.00 48.41	O
ATOM	3216	CG2	THR	414	42.502	105.068	39.152	1.00 48.41	C
ATOM	3217	C	THR	414	44.241	105.243	41.379	1.00 48.41	C
ATOM	3218	O	THR	414	45.145	105.796	40.755	1.00 48.41	O
ATOM	3219	N	GLU	415	43.682	105.803	42.470	1.00110.22	N
ATOM	3220								

ATOM	3250	OG	SER	419	49.504	103.514	56.024	1.00	83.14	O
ATOM	3251	C	SER	419	47.773	101.419	55.309	1.00	83.14	C
ATOM	3252	O	SER	419	46.677	101.436	55.866	1.00	83.14	O
ATOM	3253	N	VAL	420	48.693	100.458	55.531	1.00	112.42	N
ATOM	3254	CA	VAL	420	48.565	99.471	56.558	1.00	112.42	C
ATOM	3255	CB	VAL	420	49.120	98.129	56.178	1.00	112.42	C
ATOM	3256	CG1	VAL	420	49.079	97.214	57.413	1.00	112.42	C
ATOM	3257	CG2	VAL	420	48.335	97.587	54.971	1.00	112.42	C
ATOM	3258	C	VAL	420	49.432	100.004	57.623	1.00	112.42	C
ATOM	3259	O	VAL	420	50.408	100.658	57.265	1.00	112.42	O
ATOM	3260	N	ASP	421	49.120	99.733	58.919	1.00	183.72	N
ATOM	3261	CA	ASP	421	49.898	100.350	59.951	1.00	183.72	C
ATOM	3262	CB	ASP	421	51.368	99.884	59.937	1.00	183.72	C
ATOM	3263	CG	ASP	421	52.065	100.366	61.201	1.00	183.72	C
ATOM	3264	OD1	ASP	421	51.350	100.792	62.145	1.00	183.72	O
ATOM	3265	OD2	ASP	421	53.324	100.321	61.232	1.00	183.72	O
ATOM	3266	C	ASP	421	49.841	101.805	59.605	1.00	183.72	C
ATOM	3267	O	ASP	421	48.760	102.371	59.438	1.00	183.72	O
ATOM	3268	N	GLY	422	51.030	102.433	59.601	1.00	114.33	N
ATOM	3269	CA	GLY	422	51.382	103.731	59.095	1.00	114.33	C
ATOM	3270	C	GLY	422	51.766	103.775	57.630	1.00	114.33	C
ATOM	3271	O	GLY	422	51.722	104.847	57.028	1.00	114.33	O
ATOM	3272	N	GLN	423	52.263	102.654	57.049	1.00	95.85	N
ATOM	3273	CA	GLN	423	52.888	102.674	55.742	1.00	95.85	C
ATOM	3274	CB	GLN	423	54.088	101.713	55.670	1.00	95.85	C
ATOM	3275	CG	GLN	423	55.173	102.051	56.698	1.00	95.85	C
ATOM	3276	CD	GLN	423	56.277	101.008	56.596	1.00	95.85	C
ATOM	3277	OE1	GLN	423	56.043	99.877	56.172	1.00	95.85	O
ATOM	3278	NE2	GLN	423	57.517	101.393	57.001	1.00	95.85	N
ATOM	3279	C	GLN	423	51.936	102.309	54.642	1.00	95.85	C
ATOM	3280	O	GLN	423	50.895	101.692	54.859	1.00	95.85	O
ATOM	3281	N	ASP	424	52.298	102.707	53.404	1.00	94.24	N
ATOM	3282	CA	ASP	424	51.505	102.493	52.230	1.00	94.24	C
ATOM	3283	CB	ASP	424	51.988	103.373	51.060	1.00	94.24	C
ATOM	3284	CG	ASP	424	51.232	103.029	49.787	1.00	94.24	C
ATOM	3285	OD1	ASP	424	51.490	101.928	49.237	1.00	94.24	O
ATOM	3286	OD2	ASP	424	50.396	103.859	49.341	1.00	94.24	O
ATOM	3287	C	ASP	424	51.612	101.053	51.841	1.00	94.24	C
ATOM	3288	O	ASP	424	52.692	100.478	51.764	1.00	94.24	O
ATOM	3289	N	ILE	425	50.465	100.436	51.534	1.00	105.36	N
ATOM	3290	CA	ILE	425	50.401	99.025	51.270	1.00	105.36	C
ATOM	3291	CB	ILE	425	48.993	98.606	50.955	1.00	105.36	C
ATOM	3292	CG1	ILE	425	48.910	97.097	50.697	1.00	105.36	C
ATOM	3293	CG2	ILE	425	48.476	99.472	49.792	1.00	105.36	C
ATOM	3294	CD1	ILE	425	47.473	96.602	50.567	1.00	105.36	C
ATOM	3295	C	ILE	425	51.265	98.620	50.107	1.00	105.36	C
ATOM	3296	O	ILE	425	52.071	97.696	50.218	1.00	105.36	O
ATOM	3297	N	ARG	426	51.181	99.350	48.984	1.00	176.89	N
ATOM	3298	CA	ARG	426	51.807	98.967	47.753	1.00	176.89	C
ATOM	3299	CB	ARG	426	51.542	99.990	46.643	1.00	176.89	C
ATOM	3300	CG	ARG	426	50.051	100.093	46.334	1.00	176.89	C
ATOM	3301	CD	ARG	426	49.722	100.953	45.116	1.00	176.89	C
ATOM	3302	NE	ARG	426	49.886	102.382	45.488	1.00	176.89	N
ATOM	3303	CZ	ARG	426	49.648	103.344	44.549	1.00	176.89	C
ATOM	3304	NH1	ARG	426	49.349	102.985	43.266	1.00	176.89	N
ATOM	3305	NH2	ARG	426	49.694	104.663	44.893	1.00	176.89	N
ATOM	3306	C	ARG	426	53.283	98.830	47.935	1.00	176.89	C
ATOM	3307	O	ARG	426	53.897	97.945	47.337	1.00	176.89	O
ATOM	3308	N	THR	427	53.889	99.687	48.775	1.00	145.87	N
ATOM	3309	CA	THR	427	55.316	99.655	48.910	1.00	145.87	C
ATOM	3310	CB	THR	427	55.874	100.729	49.800	1.00	145.87	C
ATOM	3311	OG1	THR	427	57.290	100.672	49.783	1.00	145.87	O
ATOM	3312	CG2	THR	427	55.371	100.529	51.234	1.00	145.87	C
ATOM	3313	C	THR	427	55.795	98.338	49.439	1.00	145.87	C
ATOM	3314	O	THR	427	56.860	97.869	49.045	1.00	145.87	O
ATOM	3315	N	ILE	428	55.042	97.707	50.354	1.00	115.28	N
ATOM	3316	CA	ILE	428	55.482	96.490	50.983	1.00	115.28	C
ATOM	3317	CB	ILE	428	54.740	96.226	52.254	1.00	115.28	C
ATOM	3318	CG1	ILE	428	53.266	95.881	51.992	1.00	115.28	C
ATOM	3319	CG2	ILE	428	54.880	97.515	53.079	1.00	115.28	C
ATOM	3320	CD1	ILE	428	52.542	95.378	53.241	1.00	115.28	C
ATOM	3321	C	ILE	428	55.314	95.312	50.051	1.00	115.28	C
ATOM	3322	O	ILE	428	54.483	95.324	49.144	1.00	115.28	O
ATOM	3323	N	ASN	429	56.160	94.270	50.232	1.00	84.80	N

ATOM	3324	CA	ASN	429	56.156	93.076	49.421	1.00	84.80	C
ATOM	3325	CB	ASN	429	57.323	92.129	49.743	1.00	84.80	C
ATOM	3326	CG	ASN	429	57.134	90.847	48.947	1.00	84.80	C
ATOM	3327	OD1	ASN	429	57.118	89.754	49.512	1.00	84.80	O
ATOM	3328	ND2	ASN	429	56.973	90.975	47.603	1.00	84.80	N
ATOM	3329	C	ASN	429	54.883	92.299	49.599	1.00	84.80	C
ATOM	3330	O	ASN	429	54.281	92.283	50.671	1.00	84.80	O
ATOM	3331	N	VAL	430	54.439	91.643	48.502	1.00	173.68	N
ATOM	3332	CA	VAL	430	53.194	90.919	48.459	1.00	173.68	C
ATOM	3333	CB	VAL	430	52.778	90.518	47.073	1.00	173.68	C
ATOM	3334	CG1	VAL	430	52.278	91.768	46.339	1.00	173.68	C
ATOM	3335	CG2	VAL	430	53.973	89.848	46.374	1.00	173.68	C
ATOM	3336	C	VAL	430	53.103	89.699	49.326	1.00	173.68	C
ATOM	3337	O	VAL	430	52.255	89.682	50.218	1.00	173.68	O
ATOM	3338	N	ARG	431	54.013	88.707	49.165	1.00	102.96	N
ATOM	3339	CA	ARG	431	53.877	87.428	49.824	1.00	102.96	C
ATOM	3340	CB	ARG	431	55.092	86.505	49.636	1.00	102.96	C
ATOM	3341	CG	ARG	431	54.853	85.106	50.208	1.00	102.96	C
ATOM	3342	CD	ARG	431	56.125	84.283	50.424	1.00	102.96	C
ATOM	3343	NE	ARG	431	56.850	84.201	49.124	1.00	102.96	N
ATOM	3344	CZ	ARG	431	56.574	83.204	48.233	1.00	102.96	C
ATOM	3345	NH1	ARG	431	55.595	82.292	48.499	1.00	102.96	N
ATOM	3346	NH2	ARG	431	57.286	83.124	47.072	1.00	102.96	N
ATOM	3347	C	ARG	431	53.785	87.726	51.290	1.00	102.96	C
ATOM	3348	O	ARG	431	53.057	87.071	52.038	1.00	102.96	O
ATOM	3349	N	PHE	432	54.538	88.756	51.712	1.00	173.02	N
ATOM	3350	CA	PHE	432	54.574	89.239	53.065	1.00	173.02	C
ATOM	3351	CB	PHE	432	55.618	90.373	53.153	1.00	173.02	C
ATOM	3352	CG	PHE	432	55.974	90.720	54.557	1.00	173.02	C
ATOM	3353	CD1	PHE	432	55.206	91.586	55.299	1.00	173.02	C
ATOM	3354	CD2	PHE	432	57.111	90.188	55.122	1.00	173.02	C
ATOM	3355	CE1	PHE	432	55.561	91.903	56.590	1.00	173.02	C
ATOM	3356	CE2	PHE	432	57.472	90.501	56.411	1.00	173.02	C
ATOM	3357	CZ	PHE	432	56.693	91.359	57.149	1.00	173.02	C
ATOM	3358	C	PHE	432	53.225	89.798	53.454	1.00	173.02	C
ATOM	3359	O	PHE	432	52.628	89.381	54.448	1.00	173.02	O
ATOM	3360	N	LEU	433	52.680	90.726	52.634	1.00	98.37	N
ATOM	3361	CA	LEU	433	51.446	91.400	52.963	1.00	98.37	C
ATOM	3362	CB	LEU	433	50.982	92.355	51.857	1.00	98.37	C
ATOM	3363	CG	LEU	433	49.595	92.964	52.132	1.00	98.37	C
ATOM	3364	CD1	LEU	433	49.632	93.988	53.278	1.00	98.37	C
ATOM	3365	CD2	LEU	433	48.962	93.499	50.840	1.00	98.37	C
ATOM	3366	C	LEU	433	50.367	90.390	53.085	1.00	98.37	C
ATOM	3367	O	LEU	433	49.680	90.303	54.102	1.00	98.37	O
ATOM	3368	N	ARG	434	50.276	89.528	52.068	1.00	168.17	N
ATOM	3369	CA	ARG	434	49.229	88.568	51.981	1.00	168.17	C
ATOM	3370	CB	ARG	434	49.407	87.645	50.764	1.00	168.17	C
ATOM	3371	CG	ARG	434	49.356	88.409	49.436	1.00	168.17	C
ATOM	3372	CD	ARG	434	47.944	88.870	49.064	1.00	168.17	C
ATOM	3373	NE	ARG	434	48.025	89.717	47.841	1.00	168.17	N
ATOM	3374	CZ	ARG	434	48.046	89.142	46.603	1.00	168.17	C
ATOM	3375	NH1	ARG	434	48.105	87.784	46.483	1.00	168.17	N
ATOM	3376	NH2	ARG	434	48.009	89.925	45.485	1.00	168.17	N
ATOM	3377	C	ARG	434	49.274	87.739	53.230	1.00	168.17	C
ATOM	3378	O	ARG	434	48.238	87.302	53.725	1.00	168.17	O
ATOM	3379	N	GLU	435	50.480	87.475	53.765	1.00	85.07	N
ATOM	3380	CA	GLU	435	50.591	86.706	54.977	1.00	85.07	C
ATOM	3381	CB	GLU	435	52.058	86.433	55.340	1.00	85.07	C
ATOM	3382	CG	GLU	435	52.780	85.549	54.322	1.00	85.07	C
ATOM	3383	CD	GLU	435	54.263	85.572	54.655	1.00	85.07	C
ATOM	3384	OE1	GLU	435	54.852	86.684	54.647	1.00	85.07	O
ATOM	3385	OE2	GLU	435	54.826	84.476	54.922	1.00	85.07	O
ATOM	3386	C	GLU	435	49.983	87.461	56.141	1.00	85.07	C
ATOM	3387	O	GLU	435	49.189	86.918	56.907	1.00	85.07	O
ATOM	3388	N	ILE	436	50.313	88.760	56.259	1.00	162.67	N
ATOM	3389	CA	ILE	436	49.954	89.666	57.317	1.00	162.67	C
ATOM	3390	CB	ILE	436	50.602	91.013	57.143	1.00	162.67	C
ATOM	3391	CG1	ILE	436	52.128	90.839	57.078	1.00	162.67	C
ATOM	3392	CG2	ILE	436	50.163	91.931	58.298	1.00	162.67	C
ATOM	3393	CD1	ILE	436	52.709	90.173	58.325	1.00	162.67	C
ATOM	3394	C	ILE	436	48.469	89.846	57.370	1.00	162.67	C
ATOM	3395	O	ILE	436	47.933	90.343	58.358	1.00	162.67	O
ATOM	3396	N	ILE	437	47.765	89.584	56.261	1.00	97.31	N
ATOM	3397	CA	ILE	437	46.348	89.814	56.289	1.00	97.31	C

ATOM	3398	CB	ILE	437	45.920	90.664	55.128	1.00	97.31	C
ATOM	3399	CG1	ILE	437	46.673	92.004	55.156	1.00	97.31	C
ATOM	3400	CG2	ILE	437	44.395	90.822	55.171	1.00	97.31	C
ATOM	3401	CD1	ILE	437	46.520	92.814	53.871	1.00	97.31	C
ATOM	3402	C	ILE	437	45.574	88.524	56.216	1.00	97.31	C
ATOM	3403	O	ILE	437	45.407	87.944	55.147	1.00	97.31	O
ATOM	3404	N	GLY	438	45.022	88.069	57.360	1.00	53.41	N
ATOM	3405	CA	GLY	438	44.261	86.849	57.406	1.00	53.41	C
ATOM	3406	C	GLY	438	42.968	87.102	56.705	1.00	53.41	C
ATOM	3407	O	GLY	438	42.375	88.165	56.875	1.00	53.41	O
ATOM	3408	N	VAL	439	42.487	86.125	55.903	1.00	111.92	N
ATOM	3409	CA	VAL	439	41.258	86.357	55.196	1.00	111.92	C
ATOM	3410	CB	VAL	439	41.485	86.795	53.774	1.00	111.92	C
ATOM	3411	CG1	VAL	439	40.124	86.897	53.065	1.00	111.92	C
ATOM	3412	CG2	VAL	439	42.282	88.110	53.776	1.00	111.92	C
ATOM	3413	C	VAL	439	40.421	85.105	55.141	1.00	111.92	C
ATOM	3414	O	VAL	439	40.922	84.001	54.939	1.00	111.92	O
ATOM	3415	N	VAL	440	39.092	85.239	55.330	1.00	175.88	N
ATOM	3416	CA	VAL	440	38.256	84.078	55.184	1.00	175.88	C
ATOM	3417	CB	VAL	440	37.926	83.401	56.493	1.00	175.88	C
ATOM	3418	CG1	VAL	440	36.941	84.235	57.324	1.00	175.88	C
ATOM	3419	CG2	VAL	440	37.455	81.981	56.179	1.00	175.88	C
ATOM	3420	C	VAL	440	37.015	84.467	54.431	1.00	175.88	C
ATOM	3421	O	VAL	440	36.202	85.258	54.903	1.00	175.88	O
ATOM	3422	N	SER	441	36.855	83.916	53.209	1.00	148.16	N
ATOM	3423	CA	SER	441	35.732	84.195	52.351	1.00	148.16	C
ATOM	3424	CB	SER	441	36.092	84.205	50.859	1.00	148.16	C
ATOM	3425	OG	SER	441	37.088	85.178	50.604	1.00	148.16	O
ATOM	3426	C	SER	441	34.737	83.084	52.491	1.00	148.16	C
ATOM	3427	O	SER	441	34.871	82.210	53.347	1.00	148.16	O
ATOM	3428	N	GLN	442	33.699	83.116	51.621	1.00	176.08	N
ATOM	3429	CA	GLN	442	32.581	82.223	51.728	1.00	176.08	C
ATOM	3430	CB	GLN	442	31.451	82.625	50.758	1.00	176.08	C
ATOM	3431	CG	GLN	442	31.828	82.550	49.270	1.00	176.08	C
ATOM	3432	CD	GLN	442	32.867	83.623	48.968	1.00	176.08	C
ATOM	3433	OE1	GLN	442	34.061	83.343	48.874	1.00	176.08	O
ATOM	3434	NE2	GLN	442	32.401	84.892	48.816	1.00	176.08	N
ATOM	3435	C	GLN	442	32.850	80.758	51.536	1.00	176.08	C
ATOM	3436	O	GLN	442	32.952	80.038	52.527	1.00	176.08	O
ATOM	3437	N	GLU	443	33.116	80.264	50.307	1.00	189.63	N
ATOM	3438	CA	GLU	443	33.108	78.831	50.262	1.00	189.63	C
ATOM	3439	CB	GLU	443	32.979	78.215	48.848	1.00	189.63	C
ATOM	3440	CG	GLU	443	34.260	78.151	48.018	1.00	189.63	C
ATOM	3441	CD	GLU	443	34.901	76.804	48.326	1.00	189.63	C
ATOM	3442	OE1	GLU	443	34.443	76.152	49.303	1.00	189.63	O
ATOM	3443	OE2	GLU	443	35.842	76.402	47.592	1.00	189.63	O
ATOM	3444	C	GLU	443	34.382	78.386	50.892	1.00	189.63	C
ATOM	3445	O	GLU	443	35.473	78.682	50.414	1.00	189.63	O
ATOM	3446	N	PRO	444	34.267	77.749	52.019	1.00	133.20	N
ATOM	3447	CA	PRO	444	35.401	77.263	52.737	1.00	133.20	C
ATOM	3448	CD	PRO	444	33.012	77.213	52.519	1.00	133.20	C
ATOM	3449	CB	PRO	444	34.838	76.719	54.045	1.00	133.20	C
ATOM	3450	CG	PRO	444	33.428	76.242	53.640	1.00	133.20	C
ATOM	3451	C	PRO	444	35.914	76.167	51.891	1.00	133.20	C
ATOM	3452	O	PRO	444	35.171	75.212	51.665	1.00	133.20	O
ATOM	3453	N	VAL	445	37.178	76.227	51.459	1.00	187.95	N
ATOM	3454	CA	VAL	445	37.554	75.132	50.648	1.00	187.95	C
ATOM	3455	CB	VAL	445	38.042	75.515	49.283	1.00	187.95	C
ATOM	3456	CG1	VAL	445	39.296	76.397	49.424	1.00	187.95	C
ATOM	3457	CG2	VAL	445	38.278	74.214	48.495	1.00	187.95	C
ATOM	3458	C	VAL	445	38.646	74.393	51.305	1.00	187.95	C
ATOM	3459	O	VAL	445	39.597	74.974	51.825	1.00	187.95	O
ATOM	3460	N	LEU	446	38.505	73.061	51.278	1.00	139.42	N
ATOM	3461	CA	LEU	446	39.460	72.208	51.893	1.00	139.42	C
ATOM	3462	CB	LEU	446	38.818	71.289	52.935	1.00	139.42	C
ATOM	3463	CG	LEU	446	38.147	72.082	54.064	1.00	139.42	C
ATOM	3464	CD1	LEU	446	37.429	71.140	55.040	1.00	139.42	C
ATOM	3465	CD2	LEU	446	39.152	73.029	54.741	1.00	139.42	C
ATOM	3466	C	LEU	446	39.941	71.328	50.802	1.00	139.42	C
ATOM	3467	O	LEU	446	39.160	70.645	50.140	1.00	139.42	O
ATOM	3468	N	PHE	447	41.260	71.323	50.600	1.00	234.60	N
ATOM	3469	CA	PHE	447	41.830	70.534	49.569	1.00	234.60	C
ATOM	3470	CB	PHE	447	43.333	70.815	49.413	1.00	234.60	C
ATOM	3471	CG	PHE	447	43.465	72.302	49.350	1.00	234.60	C

ATOM	3472	CD1	PHE	447	43.364	72.985	48.160	1.00234.60	C
ATOM	3473	CD2	PHE	447	43.668	73.021	50.506	1.00234.60	C
ATOM	3474	CE1	PHE	447	43.479	74.356	48.125	1.00234.60	C
ATOM	3475	CE2	PHE	447	43.784	74.391	50.479	1.00234.60	C
ATOM	3476	CZ	PHE	447	43.693	75.062	49.284	1.00234.60	C
ATOM	3477	C	PHE	447	41.650	69.113	49.995	1.00234.60	C
ATOM	3478	O	PHE	447	41.418	68.832	51.169	1.00234.60	O
ATOM	3479	N	ALA	448	41.703	68.155	49.054	1.00109.95	N
ATOM	3480	CA	ALA	448	41.485	66.821	49.531	1.00109.95	C
ATOM	3481	CB	ALA	448	41.065	65.838	48.421	1.00109.95	C
ATOM	3482	C	ALA	448	42.765	66.334	50.128	1.00109.95	C
ATOM	3483	O	ALA	448	43.717	66.027	49.411	1.00109.95	O
ATOM	3484	N	THR	449	42.795	66.263	51.478	1.00151.53	N
ATOM	3485	CA	THR	449	43.925	65.814	52.244	1.00151.53	C
ATOM	3486	CB	THR	449	45.098	66.760	52.267	1.00151.53	C
ATOM	3487	OG1	THR	449	44.662	68.077	52.565	1.00151.53	O
ATOM	3488	CG2	THR	449	45.875	66.715	50.946	1.00151.53	C
ATOM	3489	C	THR	449	43.516	65.636	53.674	1.00151.53	C
ATOM	3490	O	THR	449	42.336	65.620	54.017	1.00151.53	O
ATOM	3491	N	THR	450	44.525	65.482	54.555	1.00 54.57	N
ATOM	3492	CA	THR	450	44.295	65.324	55.957	1.00 54.57	C
ATOM	3493	CB	THR	450	45.512	64.850	56.696	1.00 54.57	C
ATOM	3494	OG1	THR	450	46.551	65.814	56.595	1.00 54.57	O
ATOM	3495	CG2	THR	450	45.974	63.518	56.076	1.00 54.57	C
ATOM	3496	C	THR	450	43.935	66.669	56.493	1.00 54.57	C
ATOM	3497	O	THR	450	44.225	67.694	55.875	1.00 54.57	O
ATOM	3498	N	ILE	451	43.270	66.702	57.665	1.00 71.68	N
ATOM	3499	CA	ILE	451	42.919	67.975	58.219	1.00 71.68	C
ATOM	3500	CB	ILE	451	42.091	67.868	59.464	1.00 71.68	C
ATOM	3501	CG1	ILE	451	40.723	67.286	59.077	1.00 71.68	C
ATOM	3502	CG2	ILE	451	42.011	69.247	60.142	1.00 71.68	C
ATOM	3503	CD1	ILE	451	39.814	66.985	60.260	1.00 71.68	C
ATOM	3504	C	ILE	451	44.192	68.691	58.508	1.00 71.68	C
ATOM	3505	O	ILE	451	44.342	69.868	58.175	1.00 71.68	O
ATOM	3506	N	ALA	452	45.179	67.967	59.068	1.00 59.40	N
ATOM	3507	CA	ALA	452	46.410	68.606	59.431	1.00 59.40	C
ATOM	3508	CB	ALA	452	47.452	67.617	59.982	1.00 59.40	C
ATOM	3509	C	ALA	452	47.012	69.255	58.218	1.00 59.40	C
ATOM	3510	O	ALA	452	47.370	70.431	58.253	1.00 59.40	O
ATOM	3511	N	GLU	453	47.045	68.539	57.083	1.00145.20	N
ATOM	3512	CA	GLU	453	47.682	69.037	55.898	1.00145.20	C
ATOM	3513	CB	GLU	453	47.513	68.083	54.704	1.00145.20	C
ATOM	3514	CG	GLU	453	48.255	68.539	53.449	1.00145.20	C
ATOM	3515	CD	GLU	453	49.722	68.174	53.610	1.00145.20	C
ATOM	3516	OE1	GLU	453	50.032	67.340	54.502	1.00145.20	O
ATOM	3517	OE2	GLU	453	50.554	68.724	52.840	1.00145.20	O
ATOM	3518	C	GLU	453	47.050	70.339	55.504	1.00145.20	C
ATOM	3519	O	GLU	453	47.742	71.243	55.042	1.00145.20	O
ATOM	3520	N	ASN	454	45.718	70.475	55.649	1.00 75.29	N
ATOM	3521	CA	ASN	454	45.062	71.696	55.260	1.00 75.29	C
ATOM	3522	CB	ASN	454	43.534	71.653	55.439	1.00 75.29	C
ATOM	3523	CG	ASN	454	42.935	70.833	54.303	1.00 75.29	C
ATOM	3524	OD1	ASN	454	43.010	71.219	53.137	1.00 75.29	O
ATOM	3525	ND2	ASN	454	42.323	69.670	54.651	1.00 75.29	N
ATOM	3526	C	ASN	454	45.574	72.827	56.095	1.00 75.29	C
ATOM	3527	O	ASN	454	45.934	73.880	55.573	1.00 75.29	O
ATOM	3528	N	ILE	455	45.659	72.630	57.422	1.00109.76	N
ATOM	3529	CA	ILE	455	46.150	73.679	58.272	1.00109.76	C
ATOM	3530	CB	ILE	455	46.223	73.301	59.727	1.00109.76	C
ATOM	3531	CG1	ILE	455	44.816	73.225	60.352	1.00109.76	C
ATOM	3532	CG2	ILE	455	47.148	74.312	60.426	1.00109.76	C
ATOM	3533	CD1	ILE	455	43.935	72.104	59.806	1.00109.76	C
ATOM	3534	C	ILE	455	47.534	73.977	57.789	1.00109.76	C
ATOM	3535	O	ILE	455	47.959	75.130	57.737	1.00109.76	O
ATOM	3536	N	ARG	456	48.257	72.920	57.384	1.00188.77	N
ATOM	3537	CA	ARG	456	49.601	73.009	56.899	1.00188.77	C
ATOM	3538	CB	ARG	456	50.166	71.641	56.497	1.00188.77	C
ATOM	3539	CG	ARG	456	50.198	70.657	57.663	1.00188.77	C
ATOM	3540	CD	ARG	456	50.670	69.263	57.265	1.00188.77	C
ATOM	3541	NE	ARG	456	52.144	69.330	57.090	1.00188.77	N
ATOM	3542	CZ	ARG	456	52.899	68.235	57.388	1.00188.77	C
ATOM	3543	NH1	ARG	456	52.289	67.087	57.805	1.00188.77	N
ATOM	3544	NH2	ARG	456	54.257	68.295	57.279	1.00188.77	N
ATOM	3545	C	ARG	456	49.609	73.859	55.666	1.00188.77	C

ATOM	3546	O	ARG	456	50.570	74.569	55.408	1.00188.77	O
ATOM	3547	N	TYR	457	48.557	73.813	54.839	1.00172.92	N
ATOM	3548	CA	TYR	457	48.525	74.666	53.683	1.00172.92	C
ATOM	3549	CB	TYR	457	47.204	74.564	52.900	1.00172.92	C
ATOM	3550	CG	TYR	457	47.234	73.417	51.945	1.00172.92	C
ATOM	3551	CD1	TYR	457	47.161	72.107	52.363	1.00172.92	C
ATOM	3552	CD2	TYR	457	47.361	73.674	50.600	1.00172.92	C
ATOM	3553	CE1	TYR	457	47.193	71.082	51.442	1.00172.92	C
ATOM	3554	CE2	TYR	457	47.392	72.659	49.677	1.00172.92	C
ATOM	3555	CZ	TYR	457	47.306	71.356	50.099	1.00172.92	C
ATOM	3556	OH	TYR	457	47.335	70.307	49.155	1.00172.92	O
ATOM	3557	C	TYR	457	48.622	76.060	54.196	1.00172.92	C
ATOM	3558	O	TYR	457	49.265	76.918	53.593	1.00172.92	O
ATOM	3559	N	GLY	458	47.990	76.307	55.355	1.00 44.66	N
ATOM	3560	CA	GLY	458	47.987	77.619	55.918	1.00 44.66	C
ATOM	3561	C	GLY	458	49.409	78.020	56.109	1.00 44.66	C
ATOM	3562	O	GLY	458	49.780	79.158	55.827	1.00 44.66	O
ATOM	3563	N	ARG	459	50.246	77.100	56.620	1.00156.67	N
ATOM	3564	CA	ARG	459	51.634	77.430	56.741	1.00156.67	C
ATOM	3565	CB	ARG	459	51.998	78.051	58.101	1.00156.67	C
ATOM	3566	CG	ARG	459	53.450	78.519	58.200	1.00156.67	C
ATOM	3567	CD	ARG	459	53.710	79.426	59.405	1.00156.67	C
ATOM	3568	NE	ARG	459	53.299	78.682	60.628	1.00156.67	N
ATOM	3569	CZ	ARG	459	52.930	79.375	61.744	1.00156.67	C
ATOM	3570	NH1	ARG	459	52.927	80.740	61.722	1.00156.67	N
ATOM	3571	NH2	ARG	459	52.561	78.706	62.875	1.00156.67	N
ATOM	3572	C	ARG	459	52.406	76.173	56.555	1.00156.67	C
ATOM	3573	O	ARG	459	52.250	75.234	57.336	1.00156.67	O
ATOM	3574	N	GLU	460	53.262	76.127	55.509	1.00178.96	N
ATOM	3575	CA	GLU	460	53.938	74.911	55.150	1.00178.96	C
ATOM	3576	CB	GLU	460	54.960	75.133	54.017	1.00178.96	C
ATOM	3577	CG	GLU	460	55.960	76.262	54.286	1.00178.96	C
ATOM	3578	CD	GLU	460	55.231	77.596	54.132	1.00178.96	C
ATOM	3579	OE1	GLU	460	54.724	77.872	53.012	1.00178.96	O
ATOM	3580	OE2	GLU	460	55.157	78.348	55.141	1.00178.96	O
ATOM	3581	C	GLU	460	54.664	74.387	56.367	1.00178.96	C
ATOM	3582	O	GLU	460	54.318	73.320	56.875	1.00178.96	O
ATOM	3583	N	ASN	461	55.619	75.145	56.948	1.00124.16	N
ATOM	3584	CA	ASN	461	56.304	74.585	58.081	1.00124.16	C
ATOM	3585	CB	ASN	461	57.738	75.115	58.255	1.00124.16	C
ATOM	3586	CG	ASN	461	58.476	74.175	59.198	1.00124.16	C
ATOM	3587	OD1	ASN	461	57.882	73.273	59.786	1.00124.16	O
ATOM	3588	ND2	ASN	461	59.810	74.392	59.351	1.00124.16	N
ATOM	3589	C	ASN	461	55.522	74.922	59.324	1.00124.16	C
ATOM	3590	O	ASN</						

ATOM	3620	O	ASP	465	49.751	72.734	68.801	1.00	58.76
ATOM	3621	N	GLU	466	51.305	73.160	67.215	1.00	95.01
ATOM	3622	CA	GLU	466	50.728	74.430	66.881	1.00	95.01
ATOM	3623	CB	GLU	466	51.557	75.237	65.867	1.00	95.01
ATOM	3624	CG	GLU	466	52.865	75.782	66.445	1.00	95.01
ATOM	3625	CD	GLU	466	53.906	74.674	66.407	1.00	95.01
ATOM	3626	OE1	GLU	466	53.976	73.884	67.388	1.00	95.01
ATOM	3627	OE2	GLU	466	54.643	74.601	65.390	1.00	95.01
ATOM	3628	C	GLU	466	49.373	74.213	66.283	1.00	95.01
ATOM	3629	O	GLU	466	48.419	74.913	66.617	1.00	95.01
ATOM	3630	N	ILE	467	49.242	73.204	65.402	1.00	123.55
ATOM	3631	CA	ILE	467	47.996	72.960	64.734	1.00	123.55
ATOM	3632	CB	ILE	467	48.047	71.732	63.868	1.00	123.55
ATOM	3633	CG1	ILE	467	49.270	71.755	62.934	1.00	123.55
ATOM	3634	CG2	ILE	467	46.705	71.626	63.124	1.00	123.55
ATOM	3635	CD1	ILE	467	49.356	72.976	62.028	1.00	123.55
ATOM	3636	C	ILE	467	46.977	72.670	65.795	1.00	123.55
ATOM	3637	O	ILE	467	45.873	73.210	65.785	1.00	123.55
ATOM	3638	N	GLU	468	47.355	71.833	66.776	1.00	54.29
ATOM	3639	CA	GLU	468	46.468	71.413	67.817	1.00	54.29
ATOM	3640	CB	GLU	468	47.175	70.593	68.913	1.00	54.29
ATOM	3641	CG	GLU	468	46.242	70.097	70.021	1.00	54.29
ATOM	3642	CD	GLU	468	47.075	69.307	71.024	1.00	54.29
ATOM	3643	OE1	GLU	468	48.312	69.545	71.083	1.00	54.29
ATOM	3644	OE2	GLU	468	46.487	68.460	71.748	1.00	54.29
ATOM	3645	C	GLU	468	45.975	72.659	68.460	1.00	54.29
ATOM	3646	O	GLU	468	44.774	72.852	68.636	1.00	54.29
ATOM	3647	N	LYS	469	46.905	73.576	68.759	1.00	127.31
ATOM	3648	CA	LYS	469	46.520	74.803	69.378	1.00	127.31
ATOM	3649	CB	LYS	469	47.738	75.714	69.650	1.00	127.31
ATOM	3650	CG	LYS	469	47.423	77.134	70.139	1.00	127.31
ATOM	3651	CD	LYS	469	46.890	78.066	69.043	1.00	127.31
ATOM	3652	CE	LYS	469	46.462	79.449	69.532	1.00	127.31
ATOM	3653	NZ	LYS	469	45.191	79.347	70.280	1.00	127.31
ATOM	3654	C	LYS	469	45.582	75.509	68.454	1.00	127.31
ATOM	3655	O	LYS	469	44.512	75.954	68.868	1.00	127.31
ATOM	3656	N	ALA	470	45.928	75.574	67.156	1.00	59.74
ATOM	3657	CA	ALA	470	45.151	76.367	66.251	1.00	59.74
ATOM	3658	CB	ALA	470	45.676	76.292	64.809	1.00	59.74
ATOM	3659	C	ALA	470	43.736	75.881	66.238	1.00	59.74
ATOM	3660	O	ALA	470	42.800	76.650	66.438	1.00	59.74
ATOM	3661	N	VAL	471	43.555	74.563	66.092	1.00	135.01
ATOM	3662	CA	VAL	471	42.269	73.951	65.962	1.00	135.01
ATOM	3663	CB	VAL	471	42.454	72.459	65.978	1.00	135.01
ATOM	3664	CG1	VAL	471	41.115	71.736	65.834	1.00	135.01
ATOM	3665	CG2	VAL	471	43.499	72.103	64.909	1.00	135.01
ATOM	3666	C	VAL	471	41.446	74.316	67.151	1.00	135.01
ATOM	3667	O	VAL	471	40.367	74.893	67.022	1.00	135.01
ATOM	3668	N	LYS	472	41.987	74.068	68.357	1.00	112.16
ATOM	3669	CA	LYS	472	41.227	74.303	69.549	1.00	112.16
ATOM	3670	CB	LYS	472	41.993	74.044	70.857	1.00	112.16
ATOM	3671	CG	LYS	472	42.034	72.582	71.301	1.00	112.16
ATOM	3672	CD	LYS	472	42.921	72.365	72.528	1.00	112.16
ATOM	3673	CE	LYS	472	42.764	70.990	73.178	1.00	112.16
ATOM	3674	NZ	LYS	472	43.432	69.960	72.354	1.00	112.16
ATOM	3675	C	LYS	472	40.812	75.737	69.587	1.00	112.16
ATOM	3676	O	LYS	472	39.703	76.043	70.018	1.00	112.16
ATOM	3677	N	GLU	473	41.681	76.662	69.139	1.00	72.27
ATOM	3678	CA	GLU	473	41.304	78.044	69.233	1.00	72.27
ATOM	3679	CB	GLU	473	42.404	79.022	68.790	1.00	72.27
ATOM	3680	CG	GLU	473	42.142	80.443	69.294	1.00	72.27
ATOM	3681	CD	GLU	473	43.247	81.351	68.779	1.00	72.27
ATOM	3682	OE1	GLU	473	43.211	81.676	67.562	1.00	72.27
ATOM	3683	OE2	GLU	473	44.132	81.737	69.586	1.00	72.27
ATOM	3684	C	GLU	473	40.102	78.288	68.362	1.00	72.27
ATOM	3685	O	GLU	473	39.190	79.035	68.710	1.00	72.27
ATOM	3686	N	ALA	474	40.120	77.656	67.182	1.00	127.69
ATOM	3687	CA	ALA	474	39.168	77.618	66.107	1.00	127.69
ATOM	3688	CB	ALA	474	39.758	77.004	64.824	1.00	127.69
ATOM	3689	C	ALA	474	37.940	76.836	66.482	1.00	127.69
ATOM	3690	O	ALA	474	37.122	76.557	65.612	1.00	127.69
ATOM	3691	N	ASN	475	37.913	76.233	67.683	1.00	124.58
ATOM	3692	CA	ASN	475	36.828	75.417	68.179	1.00	124.58
ATOM	3693	CB	ASN	475	35.504	76.135	68.555	1.00	124.58

ATOM	3694	CG	ASN	475	34.738	76.657	67.347	1.00124.58	C
ATOM	3695	OD1	ASN	475	35.128	77.636	66.719	1.00124.58	O
ATOM	3696	ND2	ASN	475	33.582	76.011	67.038	1.00124.58	N
ATOM	3697	C	ASN	475	36.562	74.315	67.204	1.00124.58	C
ATOM	3698	O	ASN	475	35.415	73.946	66.959	1.00124.58	O
ATOM	3699	N	ALA	476	37.636	73.885	66.514	1.00 98.02	N
ATOM	3700	CA	ALA	476	37.718	72.756	65.626	1.00 98.02	C
ATOM	3701	CB	ALA	476	38.779	72.936	64.528	1.00 98.02	C
ATOM	3702	C	ALA	476	37.962	71.464	66.351	1.00 98.02	C
ATOM	3703	O	ALA	476	37.604	70.388	65.880	1.00 98.02	O
ATOM	3704	N	TYR	477	38.605	71.550	67.527	1.00102.10	N
ATOM	3705	CA	TYR	477	39.163	70.427	68.229	1.00102.10	C
ATOM	3706	CB	TYR	477	39.778	70.857	69.571	1.00102.10	C
ATOM	3707	CG	TYR	477	40.518	69.695	70.130	1.00102.10	C
ATOM	3708	CD1	TYR	477	41.687	69.280	69.535	1.00102.10	C
ATOM	3709	CD2	TYR	477	40.066	69.041	71.253	1.00102.10	C
ATOM	3710	CE1	TYR	477	42.388	68.212	70.042	1.00102.10	C
ATOM	3711	CE2	TYR	477	40.765	67.972	71.763	1.00102.10	C
ATOM	3712	CZ	TYR	477	41.927	67.557	71.157	1.00102.10	C
ATOM	3713	OH	TYR	477	42.647	66.462	71.677	1.00102.10	O
ATOM	3714	C	TYR	477	38.159	69.336	68.487	1.00102.10	C
ATOM	3715	O	TYR	477	38.523	68.162	68.470	1.00102.10	O
ATOM	3716	N	ASP	478	36.891	69.656	68.795	1.00 85.16	N
ATOM	3717	CA	ASP	478	35.966	68.600	69.117	1.00 85.16	C
ATOM	3718	CB	ASP	478	34.614	69.140	69.626	1.00 85.16	C
ATOM	3719	CG	ASP	478	33.980	70.010	68.547	1.00 85.16	C
ATOM	3720	OD1	ASP	478	34.319	71.221	68.478	1.00 85.16	O
ATOM	3721	OD2	ASP	478	33.143	69.470	67.775	1.00 85.16	O
ATOM	3722	C	ASP	478	35.680	67.649	67.975	1.00 85.16	C
ATOM	3723	O	ASP	478	35.923	66.449	68.095	1.00 85.16	O
ATOM	3724	N	PHE	479	35.205	68.157	66.819	1.00 91.05	N
ATOM	3725	CA	PHE	479	34.760	67.304	65.749	1.00 91.05	C
ATOM	3726	CB	PHE	479	34.034	68.040	64.593	1.00 91.05	C
ATOM	3727	CG	PHE	479	34.940	68.910	63.777	1.00 91.05	C
ATOM	3728	CD1	PHE	479	35.772	68.357	62.828	1.00 91.05	C
ATOM	3729	CD2	PHE	479	34.929	70.280	63.922	1.00 91.05	C
ATOM	3730	CE1	PHE	479	36.596	69.150	62.060	1.00 91.05	C
ATOM	3731	CE2	PHE	479	35.751	71.078	63.156	1.00 91.05	C
ATOM	3732	CZ	PHE	479	36.589	70.515	62.222	1.00 91.05	C
ATOM	3733	C	PHE	479	35.921	66.562	65.189	1.00 91.05	C
ATOM	3734	O	PHE	479	35.813	65.388	64.841	1.00 91.05	O
ATOM	3735	N	ILE	480	37.074	67.236	65.101	1.00 74.61	N
ATOM	3736	CA	ILE	480	38.240	66.619	64.561	1.00 74.61	C
ATOM	3737	CB	ILE	480	39.439	67.514	64.593	1.00 74.61	C
ATOM	3738	CG1	ILE	480	39.755	67.864	66.050	1.00 74.61	C
ATOM	3739	CG2	ILE	480	39.162	68.737	63.700	1.00 74.61	C
ATOM	3740	CD1	ILE	480	41.107	68.509	66.275	1.00 74.61	C
ATOM	3741	C	ILE	480	38.521	65.427	65.411	1.00 74.61	C
ATOM	3742	O	ILE	480	39.002	64.416	64.911	1.00 74.61	O
ATOM	3743	N	MET	481	38.303	65.543	66.736	1.00 65.99	N
ATOM	3744	CA	MET	481	38.514	64.424	67.608	1.00 65.99	C
ATOM	3745	CB	MET	481	38.440	64.795	69.096	1.00 65.99	C
ATOM	3746	CG	MET	481	39.611	65.669	69.534	1.00 65.99	C
ATOM	3747	SD	MET	481	41.227	64.935	69.143	1.00 65.99	S
ATOM	3748	CE	MET	481	40.840	63.327	69.893	1.00 65.99	C
ATOM	3749	C	MET	481	37.507	63.326	67.374	1.00 65.99	C
ATOM	3750	O	MET	481	37.886	62.163	67.248	1.00 65.99	O
ATOM	3751	N	LYS	482	36.198	63.665	67.287	1.00 88.14	N
ATOM	3752	CA	LYS	482	35.162	62.667	67.150	1.00 88.14	C
ATOM	3753	CB	LYS	482	33.743	63.276	67.143	1.00 88.14	C
ATOM	3754	CG	LYS	482	32.592	62.257	67.151	1.00 88.14	C
ATOM	3755	CD	LYS	482	32.473	61.396	65.890	1.00 88.14	C
ATOM	3756	CE	LYS	482	31.322	60.386	65.930	1.00 88.14	C
ATOM	3757	NZ	LYS	482	31.216	59.677	64.635	1.00 88.14	N
ATOM	3758	C	LYS	482	35.362	61.963	65.852	1.00 88.14	C
ATOM	3759	O	LYS	482	35.302	60.737	65.777	1.00 88.14	O
ATOM	3760	N	LEU	483	35.642	62.744	64.798	1.00106.63	N
ATOM	3761	CA	LEU	483	35.873	62.215	63.488	1.00106.63	C
ATOM	3762	CB	LEU	483	36.420	63.310	62.552	1.00106.63	C
ATOM	3763	CG	LEU	483	36.923	62.861	61.166	1.00106.63	C
ATOM	3764	CD1	LEU	483	35.781	62.415	60.244	1.00106.63	C
ATOM	3765	CD2	LEU	483	37.791	63.956	60.532	1.00106.63	C
ATOM	3766	C	LEU	483	36.947	61.179	63.629	1.00106.63	C
ATOM	3767	O	LEU	483	37.919	61.384	64.350	1.00106.63	O

ATOM	3768	N	PRO	484	36.775	60.042	63.001	1.00222.58	N
ATOM	3769	CA	PRO	484	37.688	58.948	63.161	1.00222.58	C
ATOM	3770	CD	PRO	484	35.896	59.870	61.860	1.00222.58	C
ATOM	3771	CB	PRO	484	37.238	57.880	62.165	1.00222.58	C
ATOM	3772	CG	PRO	484	36.486	58.679	61.088	1.00222.58	C
ATOM	3773	C	PRO	484	39.165	59.197	63.117	1.00222.58	C
ATOM	3774	O	PRO	484	39.710	59.583	64.137	1.00222.58	O
ATOM	3775	N	HIS	485	39.817	59.214	61.951	1.00227.50	N
ATOM	3776	CA	HIS	485	41.261	59.125	61.884	1.00227.50	C
ATOM	3777	ND1	HIS	485	41.742	57.017	59.342	1.00227.50	N
ATOM	3778	CG	HIS	485	41.240	58.292	59.500	1.00227.50	C
ATOM	3779	CB	HIS	485	41.795	59.301	60.455	1.00227.50	C
ATOM	3780	NE2	HIS	485	40.036	57.212	57.925	1.00227.50	N
ATOM	3781	CD2	HIS	485	40.200	58.393	58.631	1.00227.50	C
ATOM	3782	CE1	HIS	485	40.985	56.416	58.388	1.00227.50	C
ATOM	3783	C	HIS	485	41.951	60.159	62.733	1.00227.50	C
ATOM	3784	O	HIS	485	43.106	59.968	63.106	1.00227.50	O
ATOM	3785	N	LYS	486	41.291	61.300	63.000	1.00250.48	N
ATOM	3786	CA	LYS	486	41.785	62.351	63.839	1.00250.48	C
ATOM	3787	CB	LYS	486	42.756	61.920	64.994	1.00250.48	C
ATOM	3788	CG	LYS	486	44.273	62.195	65.007	1.00250.48	C
ATOM	3789	CD	LYS	486	45.121	61.652	63.858	1.00250.48	C
ATOM	3790	CE	LYS	486	46.600	62.026	64.004	1.00250.48	C
ATOM	3791	NZ	LYS	486	47.402	61.405	62.930	1.00250.48	N
ATOM	3792	C	LYS	486	42.262	63.397	62.876	1.00250.48	C
ATOM	3793	O	LYS	486	41.583	63.645	61.883	1.00250.48	O
ATOM	3794	N	PHE	487	43.400	64.057	63.134	1.00 94.65	N
ATOM	3795	CA	PHE	487	43.953	65.057	62.267	1.00 94.65	C
ATOM	3796	CB	PHE	487	45.204	65.742	62.838	1.00 94.65	C
ATOM	3797	CG	PHE	487	44.789	66.631	63.959	1.00 94.65	C
ATOM	3798	CD1	PHE	487	44.236	67.863	63.694	1.00 94.65	C
ATOM	3799	CD2	PHE	487	44.964	66.243	65.267	1.00 94.65	C
ATOM	3800	CE1	PHE	487	43.858	68.694	64.720	1.00 94.65	C
ATOM	3801	CE2	PHE	487	44.588	67.071	66.297	1.00 94.65	C
ATOM	3802	CZ	PHE	487	44.035	68.299	66.025	1.00 94.65	C
ATOM	3803	C	PHE	487	44.366	64.415	60.987	1.00 94.65	C
ATOM	3804	O	PHE	487	44.397	65.044	59.929	1.00 94.65	O
ATOM	3805	N	ASP	488	44.762	63.145	61.100	1.00131.77	N
ATOM	3806	CA	ASP	488	45.221	62.309	60.039	1.00131.77	C
ATOM	3807	CB	ASP	488	45.675	60.958	60.602	1.00131.77	C
ATOM	3808	CG	ASP	488	46.159	60.085	59.469	1.00131.77	C
ATOM	3809	OD1	ASP	488	46.797	60.614	58.520	1.00131.77	O
ATOM	3810	OD2	ASP	488	45.880	58.860	59.544	1.00131.77	O
ATOM	3811	C	ASP	488	44.089	62.068	59.090	1.00131.77	C
ATOM	3812	O	ASP	488	44.322	61.689	57.942	1.00131.77	O
ATOM	3813	N	THR	489	42.833	62.237	59.564	1.00156.07	N
ATOM	3814	CA	THR	489	41.690	61.993	58.726	1.00156.07	C
ATOM	3815	CB	THR	489	40.370	62.450	59.281	1.00156.07	C
ATOM	3816	OG1	THR	489	40.421	63.834	59.587	1.00156.07	O
ATOM	3817	CG2	THR	489	39.997	61.639	60.520	1.00156.07	C
ATOM	3818	C	THR	489	41.851	62.748	57.449	1.00156.07	C
ATOM	3819	O	THR	489	42.546	63.759	57.376	1.00156.07	O
ATOM	3820	N	LEU	490	41.203	62.222	56.396	1.00191.35	N
ATOM	3821	CA	LEU	490	41.283	62.750	55.065	1.00191.35	C
ATOM	3822	CB	LEU	490	41.273	61.660	53.986	1.00191.35	C
ATOM	3823	CG	LEU	490	40.383	60.458	54.359	1.00191.35	C
ATOM	3824	CD1	LEU	490	38.997	60.883	54.865	1.00191.35	C
ATOM	3825	CD2	LEU	490	40.264	59.502	53.168	1.00191.35	C
ATOM	3826	C	LEU	490	40.102	63.608	54.774	1.00191.35	C
ATOM	3827	O	LEU	490	39.346	64.001	55.660	1.00191.35	O
ATOM	3828	N	VAL	491	39.962	63.992	53.491	1.00185.91	N
ATOM	3829	CA	VAL	491	38.795	64.742	53.159	1.00185.91	C
ATOM	3830	CB	VAL	491	39.048	66.229	53.190	1.00185.91	C
ATOM	3831	CG1	VAL	491	40.062	66.638	52.110	1.00185.91	C
ATOM	3832	CG2	VAL	491	37.698	66.950	53.139	1.00185.91	C
ATOM	3833	C	VAL	491	38.219	64.284	51.849	1.00185.91	C
ATOM	3834	O	VAL	491	38.301	64.989	50.846	1.00185.91	O
ATOM	3835	N	GLY	492	37.698	63.035	51.834	1.00 76.17	N
ATOM	3836	CA	GLY	492	36.844	62.441	50.832	1.00 76.17	C
ATOM	3837	C	GLY	492	36.922	63.088	49.485	1.00 76.17	C
ATOM	3838	O	GLY	492	35.881	63.439	48.930	1.00 76.17	O
ATOM	3839	N	GLU	493	38.123	63.234	48.904	1.00136.76	N
ATOM	3840	CA	GLU	493	38.212	63.826	47.600	1.00136.76	C
ATOM	3841	CB	GLU	493	37.669	62.904	46.495	1.00136.76	C

ATOM	3842	CG	GLU	493	38.508	61.645	46.265	1.00136.76	C
ATOM	3843	CD	GLU	493	39.665	62.012	45.349	1.00136.76	C
ATOM	3844	OE1	GLU	493	39.635	63.133	44.774	1.00136.76	O
ATOM	3845	OE2	GLU	493	40.594	61.173	45.209	1.00136.76	O
ATOM	3846	C	GLU	493	37.476	65.127	47.484	1.00136.76	C
ATOM	3847	O	GLU	493	36.324	65.152	47.056	1.00136.76	O
ATOM	3848	N	ARG	494	38.113	66.223	47.954	1.00215.46	N
ATOM	3849	CA	ARG	494	37.640	67.578	47.851	1.00215.46	C
ATOM	3850	CB	ARG	494	36.597	67.842	46.739	1.00215.46	C
ATOM	3851	CG	ARG	494	36.648	69.247	46.122	1.00215.46	C
ATOM	3852	CD	ARG	494	35.807	70.322	46.809	1.00215.46	C
ATOM	3853	NE	ARG	494	36.005	71.586	46.041	1.00215.46	N
ATOM	3854	CZ	ARG	494	35.737	72.794	46.615	1.00215.46	C
ATOM	3855	NH1	ARG	494	35.314	72.849	47.912	1.00215.46	N
ATOM	3856	NH2	ARG	494	35.893	73.946	45.896	1.00215.46	N
ATOM	3857	C	ARG	494	37.072	67.901	49.168	1.00215.46	C
ATOM	3858	O	ARG	494	37.125	67.106	50.097	1.00215.46	O
ATOM	3859	N	GLY	495	36.489	69.089	49.253	1.00116.16	N
ATOM	3860	CA	GLY	495	35.908	69.618	50.437	1.00116.16	C
ATOM	3861	C	GLY	495	34.760	68.766	50.866	1.00116.16	C
ATOM	3862	O	GLY	495	34.142	69.086	51.875	1.00116.16	O
ATOM	3863	N	ALA	496	34.316	67.765	50.073	1.00134.86	N
ATOM	3864	CA	ALA	496	33.098	67.151	50.539	1.00134.86	C
ATOM	3865	CB	ALA	496	32.117	66.865	49.393	1.00134.86	C
ATOM	3866	C	ALA	496	33.224	65.867	51.315	1.00134.86	C
ATOM	3867	O	ALA	496	33.171	64.787	50.730	1.00134.86	O
ATOM	3868	N	GLN	497	33.582	65.903	52.615	1.00206.07	N
ATOM	3869	CA	GLN	497	33.241	64.820	53.499	1.00206.07	C
ATOM	3870	CB	GLN	497	34.439	64.029	54.055	1.00206.07	C
ATOM	3871	CG	GLN	497	35.419	64.748	54.972	1.00206.07	C
ATOM	3872	CD	GLN	497	36.478	63.696	55.267	1.00206.07	C
ATOM	3873	OE1	GLN	497	36.992	63.057	54.354	1.00206.07	O
ATOM	3874	NE2	GLN	497	36.794	63.474	56.570	1.00206.07	N
ATOM	3875	C	GLN	497	32.306	65.275	54.595	1.00206.07	C
ATOM	3876	O	GLN	497	31.466	64.520	55.085	1.00206.07	O
ATOM	3877	N	LEU	498	32.469	66.558	55.005	1.00156.98	N
ATOM	3878	CA	LEU	498	31.895	67.122	56.204	1.00156.98	C
ATOM	3879	CB	LEU	498	32.979	67.509	57.232	1.00156.98	C
ATOM	3880	CG	LEU	498	34.021	68.560	56.760	1.00156.98	C
ATOM	3881	CD1	LEU	498	35.037	68.850	57.878	1.00156.98	C
ATOM	3882	CD2	LEU	498	34.727	68.173	55.448	1.00156.98	C
ATOM	3883	C	LEU	498	31.085	68.354	55.931	1.00156.98	C
ATOM	3884	O	LEU	498	31.035	68.873	54.818	1.00156.98	O
ATOM	3885	N	SER	499	30.417	68.850	56.998	1.00 56.91	N
ATOM	3886	CA	SER	499	29.542	69.984	56.918	1.00 56.91	C
ATOM	3887	CB	SER	499	28.720	70.209	58.197	1.00 56.91	C
ATOM	3888	OG	SER	499	29.575	70.596	59.262	1.00 56.91	O
ATOM	3889	C	SER	499	30.330	71.230	56.676	1.00 56.91	C
ATOM	3890	O	SER	499	31.405	71.443	57.235	1.00 56.91	O
ATOM	3891	N	GLY	500	29.733	72.132	55.879	1.00 50.50	N
ATOM	3892	CA	GLY	500	30.351	73.361	55.484	1.00 50.50	C
ATOM	3893	C	GLY	500	30.688	74.090	56.733	1.00 50.50	C
ATOM	3894	O	GLY	500	31.637	74.874	56.774	1.00 50.50	O
ATOM	3895	N	GLY	501	29.884	73.872	57.787	1.00 54.12	N
ATOM	3896	CA	GLY	501	30.156	74.590	58.991	1.00 54.12	C
ATOM	3897	C	GLY	501	31.544	74.252	59.442	1.00 54.12	C
ATOM	3898	O	GLY	501	32.358	75.145	59.661	1.00 54.12	O
ATOM	3899	N	GLN	502	31.871	72.951	59.536	1.00 76.56	N
ATOM	3900	CA	GLN	502	33.163	72.535	60.001	1.00 76.56	C
ATOM	3901	CB	GLN	502	33.243	71.012	60.157	1.00 76.56	C
ATOM	3902	CG	GLN	502	32.278	70.496	61.222	1.00 76.56	C
ATOM	3903	CD	GLN	502	32.221	68.981	61.119	1.00 76.56	C
ATOM	3904	OE1	GLN	502	32.423	68.410	60.048	1.00 76.56	O
ATOM	3905	NE2	GLN	502	31.933	68.310	62.265	1.00 76.56	N
ATOM	3906	C	GLN	502	34.193	72.963	59.016	1.00 76.56	C
ATOM	3907	O	GLN	502	35.279	73.391	59.407	1.00 76.56	O
ATOM	3908	N	LYS	503	33.870	72.877	57.709	1.00112.94	N
ATOM	3909	CA	LYS	503	34.846	73.228	56.716	1.00112.94	C
ATOM	3910	CB	LYS	503	34.331	73.208	55.268	1.00112.94	C
ATOM	3911	CG	LYS	503	34.093	71.812	54.696	1.00112.94	C
ATOM	3912	CD	LYS	503	33.562	71.833	53.260	1.00112.94	C
ATOM	3913	CE	LYS	503	34.608	72.301	52.240	1.00112.94	C
ATOM	3914	NZ	LYS	503	34.085	72.163	50.863	1.00112.94	N
ATOM	3915	C	LYS	503	35.290	74.623	56.984	1.00112.94	C

ATOM	3916	O	LYS	503	36.483	74.862	57.169	1.00112.94
ATOM	3917	N	GLN	504	34.330	75.552	57.135	1.00153.92
ATOM	3918	CA	GLN	504	34.693	76.918	57.393	1.00153.92
ATOM	3919	CB	GLN	504	33.522	77.869	57.682	1.00153.92
ATOM	3920	CG	GLN	504	33.079	78.689	56.480	1.00153.92
ATOM	3921	CD	GLN	504	34.105	79.816	56.376	1.00153.92
ATOM	3922	OE1	GLN	504	34.995	79.940	57.217	1.00153.92
ATOM	3923	NE2	GLN	504	33.979	80.662	55.321	1.00153.92
ATOM	3924	C	GLN	504	35.536	76.964	58.610	1.00153.92
ATOM	3925	O	GLN	504	36.536	77.680	58.650	1.00153.92
ATOM	3926	N	ARG	505	35.178	76.158	59.617	1.00139.27
ATOM	3927	CA	ARG	505	35.908	76.231	60.837	1.00139.27
ATOM	3928	CB	ARG	505	35.379	75.262	61.898	1.00139.27
ATOM	3929	CG	ARG	505	35.937	75.528	63.297	1.00139.27
ATOM	3930	CD	ARG	505	35.151	74.772	64.360	1.00139.27
ATOM	3931	NE	ARG	505	33.726	75.133	64.134	1.00139.27
ATOM	3932	CZ	ARG	505	32.804	74.149	63.935	1.00139.27
ATOM	3933	NH1	ARG	505	33.168	72.843	64.069	1.00139.27
ATOM	3934	NH2	ARG	505	31.526	74.472	63.581	1.00139.27
ATOM	3935	C	ARG	505	37.334	75.891	60.583	1.00139.27
ATOM	3936	O	ARG	505	38.220	76.651	60.970	1.00139.27
ATOM	3937	N	ILE	506	37.595	74.779	59.863	1.00176.91
ATOM	3938	CA	ILE	506	38.970	74.400	59.713	1.00176.91
ATOM	3939	CB	ILE	506	39.259	73.032	59.149	1.00176.91
ATOM	3940	CG1	ILE	506	38.798	72.789	57.717	1.00176.91
ATOM	3941	CG2	ILE	506	38.667	72.021	60.133	1.00176.91
ATOM	3942	CD1	ILE	506	39.363	71.456	57.225	1.00176.91
ATOM	3943	C	ILE	506	39.698	75.488	59.006	1.00176.91
ATOM	3944	O	ILE	506	40.849	75.776	59.328	1.00176.91
ATOM	3945	N	ALA	507	39.013	76.169	58.072	1.00 74.60
ATOM	3946	CA	ALA	507	39.654	77.233	57.357	1.00 74.60
ATOM	3947	CB	ALA	507	38.686	77.970	56.418	1.00 74.60
ATOM	3948	C	ALA	507	40.129	78.248	58.343	1.00 74.60
ATOM	3949	O	ALA	507	41.285	78.667	58.312	1.00 74.60
ATOM	3950	N	ILE	508	39.263	78.602	59.303	1.00 64.30
ATOM	3951	CA	ILE	508	39.573	79.619	60.262	1.00 64.30
ATOM	3952	CB	ILE	508	38.493	79.746	61.295	1.00 64.30
ATOM	3953	CG1	ILE	508	37.161	80.105	60.611	1.00 64.30
ATOM	3954	CG2	ILE	508	38.948	80.768	62.352	1.00 64.30
ATOM	3955	CD1	ILE	508	35.931	79.902	61.493	1.00 64.30
ATOM	3956	C	ILE	508	40.825	79.199	60.948	1.00 64.30
ATOM	3957	O	ILE	508	41.692	80.022	61.236	1.00 64.30
ATOM	3958	N	ALA	509	40.953	77.892	61.222	1.00 50.35
ATOM	3959	CA	ALA	509	42.153	77.419	61.838	1.00 50.35
ATOM	3960	CB	ALA	509	42.129	75.904	62.104	1.00 50.35
ATOM	3961	C	ALA	509	43.301	77.690	60.913	1.00 50.35
ATOM	3962	O	ALA	509	44.328	78.216	61.336	1.00 50.35
ATOM	3963	N	ARG	510	43.150	77.385	59.606	1.00132.84
ATOM	3964	CA	ARG	510	44.289	77.568	58.745	1.00132.84
ATOM	3965	CB	ARG	510	44.124	77.055	57.294	1.00132.84
ATOM	3966	CG	ARG	510	43.006	77.655	56.439	1.00132.84
ATOM	3967	CD	ARG	510	43.075	77.191	54.979	1.00132.84
ATOM	3968	NE	ARG	510	41.829	77.640	54.293	1.00132.84
ATOM	3969	CZ	ARG	510	40.884	76.730	53.916	1.00132.84
ATOM	3970	NH1	ARG	510	41.109	75.393	54.079	1.00132.84
ATOM	3971	NH2	ARG	510	39.712	77.160	53.366	1.00132.84
ATOM	3972	C	ARG	510	44.709	79.001	58.745	1.00132.84
ATOM	3973	O	ARG	510	45.874	79.308	58.980	1.00132.84
ATOM	3974	N	ALA	511	43.756	79.924	58.569	1.00 55.53
ATOM	3975	CA	ALA	511	44.076	81.320	58.583	1.00 55.53
ATOM	3976	CB	ALA	511	42.841	82.213	58.370	1.00 55.53
ATOM	3977	C	ALA	511	44.634	81.626	59.933	1.00 55.53
ATOM	3978	O	ALA	511	45.500	82.484	60.087	1.00 55.53
ATOM	3979	N	LEU	512	44.135	80.910	60.954	1.00127.26
ATOM	3980	CA	LEU	512	44.505	81.162	62.312	1.00127.26
ATOM	3981	CB	LEU	512	43.798	80.207	63.286	1.00127.26
ATOM	3982	CG	LEU	512	43.859	80.682	64.745	1.00127.26
ATOM	3983	CD1	LEU	512	45.283	80.676	65.325	1.00127.26
ATOM	3984	CD2	LEU	512	43.175	82.053	64.852	1.00127.26
ATOM	3985	C	LEU	512	45.985	80.966	62.476	1.00127.26
ATOM	3986	O	LEU	512	46.638	81.731	63.184	1.00127.26
ATOM	3987	N	VAL	513	46.549	79.916	61.847	1.00 66.32
ATOM	3988	CA	VAL	513	47.953	79.615	61.931	1.00 66.32
ATOM	3989	CB	VAL	513	48.281	78.305	61.281	1.00 66.32

ATOM	3990	CG1	VAL	513	49.791	78.042	61.407	1.00	66.32	C
ATOM	3991	CG2	VAL	513	47.389	77.224	61.916	1.00	66.32	C
ATOM	3992	C	VAL	513	48.721	80.691	61.237	1.00	66.32	C
ATOM	3993	O	VAL	513	49.840	81.027	61.623	1.00	66.32	O
ATOM	3994	N	ARG	514	48.136	81.253	60.165	1.00	125.35	N
ATOM	3995	CA	ARG	514	48.786	82.300	59.436	1.00	125.35	C
ATOM	3996	CB	ARG	514	47.982	82.794	58.225	1.00	125.35	C
ATOM	3997	CG	ARG	514	48.899	83.318	57.118	1.00	125.35	C
ATOM	3998	CD	ARG	514	49.757	82.186	56.542	1.00	125.35	C
ATOM	3999	NE	ARG	514	50.639	82.729	55.469	1.00	125.35	N
ATOM	4000	CZ	ARG	514	50.186	82.790	54.184	1.00	125.35	C
ATOM	4001	NH1	ARG	514	48.889	82.476	53.913	1.00	125.35	N
ATOM	4002	NH2	ARG	514	51.030	83.160	53.178	1.00	125.35	N
ATOM	4003	C	ARG	514	48.981	83.449	60.392	1.00	125.35	C
ATOM	4004	O	ARG	514	49.946	84.200	60.274	1.00	125.35	O
ATOM	4005	N	ASN	515	48.031	83.609	61.341	1.00	109.98	N
ATOM	4006	CA	ASN	515	47.974	84.577	62.421	1.00	109.98	C
ATOM	4007	CB	ASN	515	48.606	84.122	63.756	1.00	109.98	C
ATOM	4008	CG	ASN	515	50.126	84.046	63.709	1.00	109.98	C
ATOM	4009	OD1	ASN	515	50.746	83.940	62.655	1.00	109.98	O
ATOM	4010	ND2	ASN	515	50.750	84.090	64.916	1.00	109.98	N
ATOM	4011	C	ASN	515	48.435	85.963	62.053	1.00	109.98	C
ATOM	4012	O	ASN	515	49.549	86.389	62.352	1.00	109.98	O
ATOM	4013	N	PRO	516	47.541	86.641	61.382	1.00	137.18	N
ATOM	4014	CA	PRO	516	47.665	87.994	60.879	1.00	137.18	C
ATOM	4015	CD	PRO	516	46.400	85.953	60.809	1.00	137.18	C
ATOM	4016	CB	PRO	516	46.690	88.082	59.724	1.00	137.18	C
ATOM	4017	CG	PRO	516	45.615	87.050	60.088	1.00	137.18	C
ATOM	4018	C	PRO	516	47.310	89.066	61.869	1.00	137.18	C
ATOM	4019	O	PRO	516	46.976	88.766	63.012	1.00	137.18	O
ATOM	4020	N	LYS	517	47.543	90.333	61.473	1.00	206.59	N
ATOM	4021	CA	LYS	517	47.151	91.548	62.130	1.00	206.59	C
ATOM	4022	CB	LYS	517	48.189	92.658	61.932	1.00	206.59	C
ATOM	4023	CG	LYS	517	49.576	92.182	62.367	1.00	206.59	C
ATOM	4024	CD	LYS	517	49.590	91.576	63.772	1.00	206.59	C
ATOM	4025	CE	LYS	517	50.904	90.880	64.127	1.00	206.59	C
ATOM	4026	NZ	LYS	517	51.079	89.667	63.298	1.00	206.59	N
ATOM	4027	C	LYS	517	45.817	92.044	61.656	1.00	206.59	C
ATOM	4028	O	LYS	517	45.169	92.848	62.324	1.00	206.59	O
ATOM	4029	N	ILE	518	45.433	91.668	60.422	1.00	82.48	N
ATOM	4030	CA	ILE	518	44.216	92.150	59.839	1.00	82.48	C
ATOM	4031	CB	ILE	518	44.470	92.995	58.627	1.00	82.48	C
ATOM	4032	CG1	ILE	518	45.390	94.165	59.011	1.00	82.48	C
ATOM	4033	CG2	ILE	518	43.122	93.455	58.052	1.00	82.48	C
ATOM	4034	CD1	ILE	518	45.953	94.926	57.814	1.00	82.48	C
ATOM	4035	C	ILE	518	43.416	90.954	59.429	1.00	82.48	C
ATOM	4036	O	ILE	518	43.969	89.935	59.014	1.00	82.48	O
ATOM	4037	N	LEU	519	42.077	91.030	59.567	1.00	130.36	N
ATOM	4038	CA	LEU	519	41.293	89.876	59.229	1.00	130.36	C
ATOM	4039	CB	LEU	519	40.733	89.175	60.486	1.00	130.36	C
ATOM	4040	CG	LEU	519	40.157	87.758	60.286	1.00	130.36	C
ATOM	4041	CD1	LEU	519	39.618	87.198	61.611	1.00	130.36	C
ATOM	4042	CD2	LEU	519	39.134	87.683	59.144	1.00	130.36	C
ATOM	4043	C	LEU	519	40.141	90.349	58.393	1.00	130.36	C
ATOM	4044	O	LEU	519	39.400	91.240	58.798	1.00	130.36	O
ATOM	4045	N	LEU	520	39.966	89.773	57.185	1.00	109.00	N
ATOM	4046	CA	LEU	520	38.865	90.166	56.356	1.00	109.00	C
ATOM	4047	CB	LEU	520	39.274	90.507	54.913	1.00	109.00	C
ATOM	4048	CG	LEU	520	40.222	91.712	54.799	1.00	109.00	C
ATOM	4049	CD1	LEU	520	41.539	91.452	55.544	1.00	109.00	C
ATOM	4050	CD2	LEU	520	40.445	92.103	53.329	1.00	109.00	C
ATOM	4051	C	LEU	520	37.941	89.000	56.263	1.00	109.00	C
ATOM	4052	O	LEU	520	38.366	87.873	56.018	1.00	109.00	O
ATOM	4053	N	LEU	521	36.635	89.233	56.480	1.00	126.14	N
ATOM	4054	CA	LEU	521	35.727	88.133	56.340	1.00	126.14	C
ATOM	4055	CB	LEU	521	34.865	87.867	57.587	1.00	126.14	C
ATOM	4056	CG	LEU	521	35.686	87.558	58.853	1.00	126.14	C
ATOM	4057	CD1	LEU	521	36.421	88.812	59.359	1.00	126.14	C
ATOM	4058	CD2	LEU	521	34.825	86.884	59.934	1.00	126.14	C
ATOM	4059	C	LEU	521	34.798	88.500	55.225	1.00	126.14	C
ATOM	4060	O	LEU	521	33.993	89.420	55.359	1.00	126.14	O
ATOM	4061	N	ASP	522	34.879	87.784	54.086	1.00	118.06	N
ATOM	4062	CA	ASP	522	34.038	88.113	52.972	1.00	118.06	C
ATOM	4063	CB	ASP	522	34.741	87.875	51.621	1.00	118.06	C

ATOM	4064	CG	ASP	522	34.053	88.695	50.537	1.00118.06	C
ATOM	4065	OD1	ASP	522	32.935	89.213	50.796	1.00118.06	O
ATOM	4066	OD2	ASP	522	34.652	88.829	49.437	1.00118.06	O
ATOM	4067	C	ASP	522	32.834	87.226	53.033	1.00118.06	C
ATOM	4068	O	ASP	522	32.756	86.202	52.356	1.00118.06	O
ATOM	4069	N	GLU	523	31.847	87.620	53.856	1.00142.11	N
ATOM	4070	CA	GLU	523	30.614	86.890	53.968	1.00142.11	C
ATOM	4071	CB	GLU	523	29.946	86.689	52.596	1.00142.11	C
ATOM	4072	CG	GLU	523	29.594	87.985	51.864	1.00142.11	C
ATOM	4073	CD	GLU	523	29.308	87.623	50.411	1.00142.11	C
ATOM	4074	OE1	GLU	523	28.753	86.516	50.180	1.00142.11	O
ATOM	4075	OE2	GLU	523	29.647	88.442	49.515	1.00142.11	O
ATOM	4076	C	GLU	523	30.868	85.505	54.499	1.00142.11	C
ATOM	4077	O	GLU	523	29.994	84.647	54.367	1.00142.11	O
ATOM	4078	N	ALA	524	31.972	85.290	55.253	1.00121.57	N
ATOM	4079	CA	ALA	524	32.416	83.948	55.542	1.00121.57	C
ATOM	4080	CB	ALA	524	33.600	83.928	56.521	1.00121.57	C
ATOM	4081	C	ALA	524	31.333	83.065	56.121	1.00121.57	C
ATOM	4082	O	ALA	524	30.933	82.117	55.457	1.00121.57	O
ATOM	4083	N	THR	525	30.688	83.414	57.246	1.00170.28	N
ATOM	4084	CA	THR	525	29.736	82.520	57.863	1.00170.28	C
ATOM	4085	CB	THR	525	29.109	83.118	59.086	1.00170.28	C
ATOM	4086	OG1	THR	525	28.263	82.166	59.711	1.00170.28	O
ATOM	4087	CG2	THR	525	28.306	84.365	58.676	1.00170.28	C
ATOM	4088	C	THR	525	28.615	82.179	56.915	1.00170.28	C
ATOM	4089	O	THR	525	28.066	81.082	56.998	1.00170.28	O
ATOM	4090	N	SER	526	28.256	83.089	55.984	1.00145.25	N
ATOM	4091	CA	SER	526	27.101	82.952	55.121	1.00145.25	C
ATOM	4092	CB	SER	526	26.966	84.054	54.046	1.00145.25	C
ATOM	4093	OG	SER	526	27.932	83.894	53.017	1.00145.25	O
ATOM	4094	C	SER	526	27.015	81.630	54.427	1.00145.25	C
ATOM	4095	O	SER	526	27.912	80.793	54.488	1.00145.25	O
ATOM	4096	N	ALA	527	25.848	81.407	53.782	1.00 59.84	N
ATOM	4097	CA	ALA	527	25.570	80.197	53.063	1.00 59.84	C
ATOM	4098	CB	ALA	527	26.465	80.007	51.827	1.00 59.84	C
ATOM	4099	C	ALA	527	25.816	79.054	53.992	1.00 59.84	C
ATOM	4100	O	ALA	527	26.448	78.069	53.612	1.00 59.84	O
ATOM	4101	N	LEU	528	25.332	79.179	55.244	1.00 79.11	N
ATOM	4102	CA	LEU	528	25.488	78.148	56.232	1.00 79.11	C
ATOM	4103	CB	LEU	528	26.650	78.459	57.198	1.00 79.11	C
ATOM	4104	CG	LEU	528	26.893	77.397	58.281	1.00 79.11	C
ATOM	4105	CD1	LEU	528	27.352	76.073	57.647	1.00 79.11	C
ATOM	4106	CD2	LEU	528	27.864	77.905	59.360	1.00 79.11	C
ATOM	4107	C	LEU	528	24.219	78.169	57.036	1.00 79.11	C
ATOM	4108	O	LEU	528	23.489	79.158	57.010	1.00 79.11	O
ATOM	4109	N	ASP	529	23.896	77.090	57.778	1.00 89.65	N
ATOM	4110	CA	ASP	529	22.659	77.141	58.514	1.00 89.65	C
ATOM	4111	CB	ASP	529	22.154	75.790	59.048	1.00 89.65	C
ATOM	4112	CG	ASP	529	23.162	75.256	60.044	1.00 89.65	C
ATOM	4113	OD1	ASP	529	24.145	74.614	59.589	1.00 89.65	O
ATOM	4114	OD2	ASP	529	22.957	75.467	61.269	1.00 89.65	O
ATOM	4115	C	ASP	529	22.811	78.097	59.670	1.00 89.65	C
ATOM	4116	O	ASP	529	23.929	78.436	60.051	1.00 89.65	O
ATOM	4117	N	THR	530	21.676	78.565	60.251	1.00154.21	N
ATOM	4118	CA	THR	530	21.676	79.544	61.317	1.00154.21	C
ATOM	4119	CB	THR	530	20.297	79.934	61.772	1.00154.21	C
ATOM	4120	OG1	THR	530	20.386	80.945	62.765	1.00154.21	O
ATOM	4121	CG2	THR	530	19.563	78.701	62.323	1.00154.21	C
ATOM	4122	C	THR	530	22.439	79.001	62.490	1.00154.21	C
ATOM	4123	O	THR	530	23.349	79.659	62.987	1.00154.21	O
ATOM	4124	N	GLU	531	22.158	77.756	62.920	1.00100.89	N
ATOM	4125	CA	GLU	531	22.771	77.258	64.123	1.00100.89	C
ATOM	4126	CB	GLU	531	22.336	75.817	64.447	1.00100.89	C
ATOM	4127	CG	GLU	531	22.941	75.254	65.736	1.00100.89	C
ATOM	4128	CD	GLU	531	24.264	74.573	65.410	1.00100.89	C
ATOM	4129	OE1	GLU	531	24.640	74.533	64.209	1.00100.89	O
ATOM	4130	OE2	GLU	531	24.915	74.070	66.362	1.00100.89	O
ATOM	4131	C	GLU	531	24.263	77.271	63.988	1.00100.89	C
ATOM	4132	O	GLU	531	24.966	77.761	64.873	1.00100.89	O
ATOM	4133	N	SER	532	24.788	76.762	62.860	1.00125.42	N
ATOM	4134	CA	SER	532	26.211	76.674	62.684	1.00125.42	C
ATOM	4135	CB	SER	532	26.596	76.041	61.343	1.00125.42	C
ATOM	4136	OG	SER	532	26.082	74.724	61.278	1.00125.42	O
ATOM	4137	C	SER	532	26.735	78.055	62.638	1.00125.42	C

ATOM	4138	O	SER	532	27.729	78.359	63.294	1.00125.42	O
ATOM	4139	N	GLU	533	26.005	78.938	61.926	1.00112.18	N
ATOM	4140	CA	GLU	533	26.444	80.280	61.710	1.00112.18	C
ATOM	4141	CB	GLU	533	25.397	81.176	61.026	1.00112.18	C
ATOM	4142	CG	GLU	533	25.238	80.923	59.526	1.00112.18	C
ATOM	4143	CD	GLU	533	24.259	81.954	58.976	1.00112.18	C
ATOM	4144	OE1	GLU	533	23.060	81.895	59.358	1.00112.18	O
ATOM	4145	OE2	GLU	533	24.698	82.819	58.173	1.00112.18	O
ATOM	4146	C	GLU	533	26.722	80.866	63.046	1.00112.18	C
ATOM	4147	O	GLU	533	27.631	81.681	63.194	1.00112.18	O
ATOM	4148	N	ALA	534	25.937	80.471	64.061	1.00 62.31	N
ATOM	4149	CA	ALA	534	26.226	80.997	65.360	1.00 62.31	C
ATOM	4150	CB	ALA	534	25.213	80.535	66.418	1.00 62.31	C
ATOM	4151	C	ALA	534	27.582	80.528	65.799	1.00 62.31	C
ATOM	4152	O	ALA	534	28.462	81.338	66.079	1.00 62.31	O
ATOM	4153	N	VAL	535	27.821	79.203	65.765	1.00 55.01	N
ATOM	4154	CA	VAL	535	29.052	78.640	66.257	1.00 55.01	C
ATOM	4155	CB	VAL	535	29.110	77.152	66.079	1.00 55.01	C
ATOM	4156	CG1	VAL	535	30.469	76.655	66.599	1.00 55.01	C
ATOM	4157	CG2	VAL	535	27.893	76.516	66.772	1.00 55.01	C
ATOM	4158	C	VAL	535	30.187	79.211	65.471	1.00 55.01	C
ATOM	4159	O	VAL	535	31.223	79.569	66.030	1.00 55.01	O
ATOM	4160	N	VAL	536	30.010	79.302	64.142	1.00 65.46	N
ATOM	4161	CA	VAL	536	31.034	79.772	63.255	1.00 65.46	C
ATOM	4162	CB	VAL	536	30.609	79.708	61.814	1.00 65.46	C
ATOM	4163	CG1	VAL	536	31.694	80.366	60.945	1.00 65.46	C
ATOM	4164	CG2	VAL	536	30.332	78.238	61.447	1.00 65.46	C
ATOM	4165	C	VAL	536	31.364	81.192	63.567	1.00 65.46	C
ATOM	4166	O	VAL	536	32.532	81.538	63.729	1.00 65.46	O
ATOM	4167	N	GLN	537	30.355	82.071	63.696	1.00188.52	N
ATOM	4168	CA	GLN	537	30.753	83.418	63.948	1.00188.52	C
ATOM	4169	CB	GLN	537	29.688	84.510	63.800	1.00188.52	C
ATOM	4170	CG	GLN	537	28.574	84.547	64.826	1.00188.52	C
ATOM	4171	CD	GLN	537	27.886	85.857	64.509	1.00188.52	C
ATOM	4172	OE1	GLN	537	26.691	85.892	64.215	1.00188.52	O
ATOM	4173	NE2	GLN	537	28.675	86.966	64.539	1.00188.52	N
ATOM	4174	C	GLN	537	31.381	83.474	65.305	1.00188.52	C
ATOM	4175	O	GLN	537	32.198	84.349	65.572	1.00188.52	O
ATOM	4176	N	VAL	538	30.992	82.551	66.211	1.00 49.14	N
ATOM	4177	CA	VAL	538	31.550	82.518	67.536	1.00 49.14	C
ATOM	4178	CB	VAL	538	30.985	81.421	68.385	1.00 49.14	C
ATOM	4179	CG1	VAL	538	31.791	81.370	69.693	1.00 49.14	C
ATOM	4180	CG2	VAL	538	29.485	81.689	68.600	1.00 49.14	C
ATOM	4181	C	VAL	538	33.035	82.316	67.464	1.00 49.14	C
ATOM	4182	O	VAL	538	33.786	82.973	68.183	1.00 49.14	O
ATOM	4183	N	ALA	539	33.504	81.387	66.611	1.00 46.63	N
ATOM	4184	CA	ALA	539	34.911	81.143	66.436	1.00 46.63	C
ATOM	4185	CB	ALA	539	35.196	80.035	65.413	1.00 46.63	C
ATOM	4186	C	ALA	539	35.511	82.379	65.859	1.00 46.63	C
ATOM	4187	O	ALA	539	36.610	82.784	66.231	1.00 46.63	O
ATOM	4188	N	LEU	540	34.781	83.008	64.923	1.00 79.19	N
ATOM	4189	CA	LEU	540	35.277	84.171	64.259	1.00 79.19	C
ATOM	4190	CB	LEU	540	34.231	84.791	63.314	1.00 79.19	C
ATOM	4191	CG	LEU	540	33.780	83.868	62.167	1.00 79.19	C
ATOM	4192	CD1	LEU	540	32.738	84.566	61.277	1.00 79.19	C
ATOM	4193	CD2	LEU	540	34.981	83.333	61.372	1.00 79.19	C
ATOM	4194	C	LEU	540	35.516	85.189	65.319	1.00 79.19	C
ATOM	4195	O	LEU	540	36.584	85.793	65.385	1.00 79.19	O
ATOM	4196	N	ASP	541	34.529	85.353	66.218	1.00 63.25	N
ATOM	4197	CA	ASP	541	34.577	86.363	67.232	1.00 63.25	C
ATOM	4198	CB	ASP	541	33.316	86.369	68.112	1.00 63.25	C
ATOM	4199	CG	ASP	541	32.140	86.816	67.250	1.00 63.25	C
ATOM	4200	OD1	ASP	541	32.354	87.075	66.036	1.00 63.25	O
ATOM	4201	OD2	ASP	541	31.008	86.906	67.797	1.00 63.25	O
ATOM	4202	C	ASP	541	35.761	86.133	68.114	1.00 63.25	C
ATOM	4203	O	ASP	541	36.509	87.057	68.424	1.00 63.25	O
ATOM	4204	N	LYS	542	36.001	84.875	68.506	1.00 65.09	N
ATOM	4205	CA	LYS	542	37.091	84.583	69.383	1.00 65.09	C
ATOM	4206	CB	LYS	542	37.210	83.079	69.666	1.00 65.09	C
ATOM	4207	CG	LYS	542	35.953	82.499	70.317	1.00 65.09	C
ATOM	4208	CD	LYS	542	35.871	80.973	70.265	1.00 65.09	C
ATOM	4209	CE	LYS	542	34.566	80.422	70.844	1.00 65.09	C
ATOM	4210	NZ	LYS	542	34.479	78.964	70.610	1.00 65.09	N
ATOM	4211	C	LYS	542	38.343	85.012	68.688	1.00 65.09	C

ATOM	4212	O	LYS	542	39.320	85.378	69.335	1.00	65.09	O
ATOM	4213	N	ALA	543	38.381	84.862	67.353	1.00	76.66	N
ATOM	4214	CA	ALA	543	39.540	85.190	66.567	1.00	76.66	C
ATOM	4215	CB	ALA	543	39.492	84.548	65.170	1.00	76.66	C
ATOM	4216	C	ALA	543	39.811	86.657	66.358	1.00	76.66	C
ATOM	4217	O	ALA	543	40.938	87.110	66.555	1.00	76.66	O
ATOM	4218	N	ARG	544	38.770	87.419	65.960	1.00	124.31	N
ATOM	4219	CA	ARG	544	38.872	88.757	65.428	1.00	124.31	C
ATOM	4220	CB	ARG	544	37.544	89.268	64.834	1.00	124.31	C
ATOM	4221	CG	ARG	544	36.991	88.446	63.670	1.00	124.31	C
ATOM	4222	CD	ARG	544	35.932	89.197	62.851	1.00	124.31	C
ATOM	4223	NE	ARG	544	34.841	89.630	63.774	1.00	124.31	N
ATOM	4224	CZ	ARG	544	33.677	88.922	63.878	1.00	124.31	C
ATOM	4225	NH1	ARG	544	33.489	87.783	63.148	1.00	124.31	N
ATOM	4226	NH2	ARG	544	32.688	89.362	64.707	1.00	124.31	N
ATOM	4227	C	ARG	544	39.317	89.848	66.337	1.00	124.31	C
ATOM	4228	O	ARG	544	40.164	90.606	65.908	1.00	124.31	O
ATOM	4229	N	LYS	545	38.831	89.974	67.587	1.00	96.67	N
ATOM	4230	CA	LYS	545	39.072	91.181	68.346	1.00	96.67	C
ATOM	4231	CB	LYS	545	38.521	91.104	69.781	1.00	96.67	C
ATOM	4232	CG	LYS	545	37.005	90.904	69.865	1.00	96.67	C
ATOM	4233	CD	LYS	545	36.516	90.544	71.271	1.00	96.67	C
ATOM	4234	CE	LYS	545	35.006	90.310	71.357	1.00	96.67	C
ATOM	4235	NZ	LYS	545	34.629	89.935	72.738	1.00	96.67	N
ATOM	4236	C	LYS	545	40.533	91.464	68.477	1.00	96.67	C
ATOM	4237	O	LYS	545	40.956	92.610	68.332	1.00	96.67	O
ATOM	4238	N	GLY	546	41.348	90.420	68.701	1.00	42.76	N
ATOM	4239	CA	GLY	546	42.757	90.600	68.883	1.00	42.76	C
ATOM	4240	C	GLY	546	43.270	91.311	67.670	1.00	42.76	C
ATOM	4241	O	GLY	546	44.221	92.087	67.754	1.00	42.76	O
ATOM	4242	N	ARG	547	42.645	91.059	66.506	1.00	133.13	N
ATOM	4243	CA	ARG	547	43.090	91.614	65.255	1.00	133.13	C
ATOM	4244	CB	ARG	547	43.196	90.540	64.161	1.00	133.13	C
ATOM	4245	CG	ARG	547	44.102	89.377	64.563	1.00	133.13	C
ATOM	4246	CD	ARG	547	44.164	88.249	63.531	1.00	133.13	C
ATOM	4247	NE	ARG	547	45.068	87.199	64.080	1.00	133.13	N
ATOM	4248	CZ	ARG	547	44.564	86.276	64.950	1.00	133.13	C
ATOM	4249	NH1	ARG	547	43.244	86.329	65.296	1.00	133.13	N
ATOM	4250	NH2	ARG	547	45.373	85.314	65.484	1.00	133.13	N
ATOM	4251	C	ARG	547	42.164	92.695	64.722	1.00	133.13	C
ATOM	4252	O	ARG	547	40.961	92.737	64.957	1.00	133.13	O
ATOM	4253	N	THR	548	42.711	93.664	63.969	1.00	148.11	N
ATOM	4254	CA	THR	548	41.824	94.641	63.395	1.00	148.11	C
ATOM	4255	CB	THR	548	42.531	95.814	62.783	1.00	148.11	C
ATOM	4256	OG1	THR	548	43.282	95.400	61.650	1.00	148.11	O
ATOM	4257	CG2	THR	548	43.475	96.424	63.830	1.00	148.11	C
ATOM	4258	C	THR	548	41.127	93.941	62.265	1.00	148.11	C
ATOM	4259	O	THR	548	41.787	93.295	61.452	1.00	148.11	O
ATOM	4260	N	THR	549	39.782	94.057	62.161	1.00	127.13	N
ATOM	4261	CA	THR	549	39.108	93.268	61.160	1.00	127.13	C
ATOM	4262	CB	THR	549	38.370	92.104	61.758	1.00	127.13	C
ATOM	4263	OG1	THR	549	39.277	91.155	62.282	1.00	127.13	O
ATOM	4264	CG2	THR	549	37.459	91.458	60.719	1.00	127.13	C
ATOM	4265	C	THR	549	38.069	93.997	60.360	1.00	127.13	C
ATOM	4266	O	THR	549	37.139	94.601	60.890	1.00	127.13	O
ATOM	4267	N	ILE	550	38.158	93.868	59.019	1.00	91.00	N
ATOM	4268	CA	ILE	550	37.130	94.429	58.189	1.00	91.00	C
ATOM	4269	CB	ILE	550	37.623	95.157	56.979	1.00	91.00	C
ATOM	4270	CG1	ILE	550	36.407	95.697	56.211	1.00	91.00	C
ATOM	4271	CG2	ILE	550	38.533	94.225	56.159	1.00	91.00	C
ATOM	4272	CD1	ILE	550	36.741	96.618	55.047	1.00	91.00	C
ATOM	4273	C	ILE	550	36.271	93.295	57.699	1.00	91.00	C
ATOM	4274	O	ILE	550	36.760	92.347	57.088	1.00	91.00	O
ATOM	4275	N	VAL	551	34.947	93.359	57.969	1.00	123.30	N
ATOM	4276	CA	VAL	551	34.078	92.298	57.532	1.00	123.30	C
ATOM	4277	CB	VAL	551	33.406	91.572	58.662	1.00	123.30	C
ATOM	4278	CG1	VAL	551	32.489	92.561	59.405	1.00	123.30	C
ATOM	4279	CG2	VAL	551	32.656	90.363	58.081	1.00	123.30	C
ATOM	4280	C	VAL	551	32.983	92.856	56.666	1.00	123.30	C
ATOM	4281	O	VAL	551	32.368	93.872	56.988	1.00	123.30	O
ATOM	4282	N	ILE	552	32.708	92.177	55.532	1.00	133.34	N
ATOM	4283	CA	ILE	552	31.664	92.567	54.621	1.00	133.34	C
ATOM	4284	CB	ILE	552	32.174	92.810	53.220	1.00	133.34	C
ATOM	4285	CG1	ILE	552	31.094	93.396	52.290	1.00	133.34	C

ATOM	4286	CG2	ILE	552	32.793	91.499	52.709	1.00133.34	C
ATOM	4287	CD1	ILE	552	29.973	92.423	51.926	1.00133.34	C
ATOM	4288	C	ILE	552	30.692	91.436	54.605	1.00133.34	C
ATOM	4289	O	ILE	552	31.081	90.277	54.470	1.00133.34	O
ATOM	4290	N	ALA	553	29.386	91.709	54.779	1.00102.48	N
ATOM	4291	CA	ALA	553	28.567	90.539	54.784	1.00102.48	C
ATOM	4292	CB	ALA	553	28.749	89.679	56.046	1.00102.48	C
ATOM	4293	C	ALA	553	27.118	90.872	54.691	1.00102.48	C
ATOM	4294	O	ALA	553	26.690	92.024	54.760	1.00102.48	O
ATOM	4295	N	HIS	554	26.354	89.811	54.387	1.00160.58	N
ATOM	4296	CA	HIS	554	24.935	89.785	54.299	1.00160.58	C
ATOM	4297	ND1	HIS	554	24.484	90.008	51.186	1.00160.58	N
ATOM	4298	CG	HIS	554	24.854	88.916	51.940	1.00160.58	C
ATOM	4299	CB	HIS	554	24.416	88.690	53.355	1.00160.58	C
ATOM	4300	NE2	HIS	554	25.783	88.751	49.889	1.00160.58	N
ATOM	4301	CD2	HIS	554	25.645	88.158	51.133	1.00160.58	C
ATOM	4302	CE1	HIS	554	25.067	89.859	49.969	1.00160.58	C
ATOM	4303	C	HIS	554	24.231	89.611	55.628	1.00160.58	C
ATOM	4304	O	HIS	554	23.110	90.085	55.786	1.00160.58	O
ATOM	4305	N	ARG	555	24.824	88.913	56.621	1.00251.06	N
ATOM	4306	CA	ARG	555	24.061	88.576	57.800	1.00251.06	C
ATOM	4307	CB	ARG	555	24.749	87.543	58.711	1.00251.06	C
ATOM	4308	CG	ARG	555	24.888	86.151	58.098	1.00251.06	C
ATOM	4309	CD	ARG	555	23.567	85.397	57.967	1.00251.06	C
ATOM	4310	NE	ARG	555	22.773	86.086	56.911	1.00251.06	N
ATOM	4311	CZ	ARG	555	23.066	85.863	55.597	1.00251.06	C
ATOM	4312	NH1	ARG	555	24.127	85.075	55.261	1.00251.06	N
ATOM	4313	NH2	ARG	555	22.315	86.434	54.613	1.00251.06	N
ATOM	4314	C	ARG	555	23.869	89.784	58.614	1.00251.06	C
ATOM	4315	O	ARG	555	24.651	90.082	59.514	1.00251.06	O
ATOM	4316	N	LEU	556	22.740	90.455	58.375	1.00161.82	N
ATOM	4317	CA	LEU	556	22.471	91.646	59.109	1.00161.82	C
ATOM	4318	CB	LEU	556	21.127	92.316	58.757	1.00161.82	C
ATOM	4319	CG	LEU	556	21.083	93.002	57.371	1.00161.82	C
ATOM	4320	CD1	LEU	556	22.109	94.140	57.272	1.00161.82	C
ATOM	4321	CD2	LEU	556	21.213	92.005	56.217	1.00161.82	C
ATOM	4322	C	LEU	556	22.437	91.264	60.547	1.00161.82	C
ATOM	4323	O	LEU	556	22.814	92.050	61.411	1.00161.82	O
ATOM	4324	N	SER	557	22.009	90.027	60.845	1.00 81.07	N
ATOM	4325	CA	SER	557	21.969	89.639	62.230	1.00 81.07	C
ATOM	4326	CB	SER	557	21.505	88.185	62.427	1.00 81.07	C
ATOM	4327	OG	SER	557	22.462	87.281	61.893	1.00 81.07	O
ATOM	4328	C	SER	557	23.347	89.762	62.844	1.00 81.07	C
ATOM	4329	O	SER	557	23.495	90.301	63.939	1.00 81.07	O
ATOM	4330	N	THR	558	24.386	89.247	62.153	1.00118.64	N
ATOM	4331	CA	THR	558	25.769	89.206	62.577	1.00118.64	C
ATOM	4332	CB	THR	558	26.581	88.218	61.791	1.00118.64	C
ATOM	4333	OG1	THR	558	26.736	88.660	60.452	1.00118.64	O
ATOM	4334	CG2	THR	558	25.841	86.869	61.798	1.00118.64	C
ATOM	4335	C	THR	558	26.426	90.533	62.415	1.00118.64	C
ATOM	4336	O	THR	558	27.555	90.742	62.857	1.00118.64	O
ATOM	4337	N	VAL	559	25.795	91.410	61.629	1.00 98.75	N
ATOM	4338	CA	VAL	559	26.329	92.707	61.386	1.00 98.75	C
ATOM	4339	CB	VAL	559	25.549	93.454	60.346	1.00 98.75	C
ATOM	4340	CG1	VAL	559	26.142	94.866	60.212	1.00 98.75	C
ATOM	4341	CG2	VAL	559	25.574	92.643	59.039	1.00 98.75	C
ATOM	4342	C	VAL	559	26.293	93.496	62.647	1.00 98.75	C
ATOM	4343	O	VAL	559	27.218	94.249	62.945	1.00 98.75	O
ATOM	4344	N	ARG	560	25.259	93.245	63.466	1.00191.07	N
ATOM	4345	CA	ARG	560	24.909	94.073	64.579	1.00191.07	C
ATOM	4346	CB	ARG	560	23.903	93.368	65.501	1.00191.07	C
ATOM	4347	CG	ARG	560	23.223	94.287	66.514	1.00191.07	C
ATOM	4348	CD	ARG	560	22.146	95.164	65.878	1.00191.07	C
ATOM	4349	NE	ARG	560	21.219	94.259	65.140	1.00191.07	N
ATOM	4350	CZ	ARG	560	21.436	93.960	63.825	1.00191.07	C
ATOM	4351	NH1	ARG	560	22.471	94.537	63.149	1.00191.07	N
ATOM	4352	NH2	ARG	560	20.618	93.078	63.179	1.00191.07	N
ATOM	4353	C	ARG	560	26.113	94.410	65.427	1.00191.07	C
ATOM	4354	O	ARG	560	26.385	95.590	65.654	1.00191.07	O
ATOM	4355	N	ASN	561	26.915	93.421	65.868	1.00140.25	N
ATOM	4356	CA	ASN	561	28.014	93.771	66.732	1.00140.25	C
ATOM	4357	CB	ASN	561	28.523	92.567	67.547	1.00140.25	C
ATOM	4358	CG	ASN	561	28.981	91.486	66.577	1.00140.25	C
ATOM	4359	OD1	ASN	561	28.261	91.116	65.651	1.00140.25	O

ATOM	4360	ND2	ASN	561	30.222	90.970	66.787	1.00140.25	N
ATOM	4361	C	ASN	561	29.169	94.305	65.929	1.00140.25	C
ATOM	4362	O	ASN	561	30.298	93.828	66.042	1.00140.25	O
ATOM	4363	N	ALA	562	28.935	95.372	65.143	1.00 60.17	N
ATOM	4364	CA	ALA	562	30.007	95.944	64.390	1.00 60.17	C
ATOM	4365	CB	ALA	562	29.629	96.294	62.939	1.00 60.17	C
ATOM	4366	C	ALA	562	30.373	97.211	65.083	1.00 60.17	C
ATOM	4367	O	ALA	562	29.500	97.970	65.505	1.00 60.17	O
ATOM	4368	N	ASP	563	31.689	97.469	65.221	1.00 74.37	N
ATOM	4369	CA	ASP	563	32.121	98.670	65.868	1.00 74.37	C
ATOM	4370	CB	ASP	563	33.653	98.812	65.938	1.00 74.37	C
ATOM	4371	CG	ASP	563	34.164	97.828	66.982	1.00 74.37	C
ATOM	4372	OD1	ASP	563	33.314	97.179	67.649	1.00 74.37	O
ATOM	4373	OD2	ASP	563	35.411	97.713	67.129	1.00 74.37	O
ATOM	4374	C	ASP	563	31.583	99.785	65.040	1.00 74.37	C
ATOM	4375	O	ASP	563	31.204	100.834	65.557	1.00 74.37	O
ATOM	4376	N	VAL	564	31.559	99.580	63.711	1.00131.98	N
ATOM	4377	CA	VAL	564	31.003	100.557	62.823	1.00131.98	C
ATOM	4378	CB	VAL	564	31.988	101.628	62.448	1.00131.98	C
ATOM	4379	CG1	VAL	564	33.219	100.973	61.798	1.00131.98	C
ATOM	4380	CG2	VAL	564	31.271	102.653	61.553	1.00131.98	C
ATOM	4381	C	VAL	564	30.553	99.848	61.578	1.00131.98	C
ATOM	4382	O	VAL	564	31.005	98.741	61.289	1.00131.98	O
ATOM	4383	N	ILE	565	29.622	100.474	60.822	1.00112.82	N
ATOM	4384	CA	ILE	565	29.110	99.908	59.599	1.00112.82	C
ATOM	4385	CB	ILE	565	27.661	99.504	59.688	1.00112.82	C
ATOM	4386	CG1	ILE	565	27.464	98.439	60.780	1.00112.82	C
ATOM	4387	CG2	ILE	565	27.207	99.023	58.299	1.00112.82	C
ATOM	4388	CD1	ILE	565	27.668	98.964	62.200	1.00112.82	C
ATOM	4389	C	ILE	565	29.224	100.979	58.552	1.00112.82	C
ATOM	4390	O	ILE	565	29.280	102.162	58.879	1.00112.82	O
ATOM	4391	N	ALA	566	29.315	100.590	57.262	1.00 66.57	N
ATOM	4392	CA	ALA	566	29.403	101.562	56.209	1.00 66.57	C
ATOM	4393	CB	ALA	566	30.808	101.675	55.593	1.00 66.57	C
ATOM	4394	C	ALA	566	28.459	101.144	55.115	1.00 66.57	C
ATOM	4395	O	ALA	566	28.254	99.956	54.864	1.00 66.57	O
ATOM	4396	N	GLY	567	27.869	102.127	54.404	1.00 65.63	N
ATOM	4397	CA	GLY	567	26.884	101.779	53.419	1.00 65.63	C
ATOM	4398	C	GLY	567	27.492	101.729	52.062	1.00 65.63	C
ATOM	4399	O	GLY	567	28.028	102.711	51.556	1.00 65.63	O
ATOM	4400	N	PHE	568	27.374	100.550	51.432	1.00109.18	N
ATOM	4401	CA	PHE	568	27.833	100.293	50.105	1.00109.18	C
ATOM	4402	CB	PHE	568	29.046	99.343	49.993	1.00109.18	C
ATOM	4403	CG	PHE	568	30.288	100.008	50.487	1.00109.18	C
ATOM	4404	CD1	PHE	568	30.917	100.975	49.736	1.00109.18	C
ATOM	4405	CD2	PHE	568	30.850	99.636	51.687	1.00109.18	C
ATOM	4406	CE1	PHE	568	32.068	101.580	50.188	1.00109.18	C
ATOM	4407	CE2	PHE	568	32.001	100.237	52.143	1.00109.18	C
ATOM	4408	CZ	PHE	568	32.612	101.214	51.395	1.00109.18	C
ATOM	4409	C	PHE	568	26.710	99.595	49.420	1.00109.18	C
ATOM	4410	O	PHE	568	25.704	99.241	50.035	1.00109.18	O
ATOM	4411	N	ASP	569	26.847	99.434	48.097	1.00207.82	N
ATOM	4412	CA	ASP	569	25.874	98.757	47.303	1.00207.82	C
ATOM	4413	CB	ASP	569	24.445	99.264	47.565	1.00207.82	C
ATOM	4414	CG	ASP	569	23.459	98.326	46.888	1.00207.82	C
ATOM	4415	OD1	ASP	569	23.525	98.197	45.637	1.00207.82	O
ATOM	4416	OD2	ASP	569	22.617	97.735	47.615	1.00207.82	O
ATOM	4417	C	ASP	569	26.245	99.096	45.904	1.00207.82	C
ATOM	4418	O	ASP	569	25.642	99.965	45.278	1.00207.82	O
ATOM	4419	N	ASP	570	27.195	98.336	45.343	1.00140.36	N
ATOM	4420	CA	ASP	570	27.704	98.654	44.042	1.00140.36	C
ATOM	4421	CB	ASP	570	26.628	98.747	42.952	1.00140.36	C
ATOM	4422	CG	ASP	570	27.307	98.718	41.591	1.00140.36	C
ATOM	4423	OD1	ASP	570	28.567	98.719	41.549	1.00140.36	O
ATOM	4424	OD2	ASP	570	26.568	98.694	40.571	1.00140.36	O
ATOM	4425	C	ASP	570	28.435	99.965	44.003	1.00140.36	C
ATOM	4426	O	ASP	570	28.081	100.841	43.220	1.00140.36	O
ATOM	4427	N	GLY	571	29.478	100.144	44.841	1.00 77.18	N
ATOM	4428	CA	GLY	571	30.297	101.323	44.757	1.00 77.18	C
ATOM	4429	C	GLY	571	29.612	102.591	45.228	1.00 77.18	C
ATOM	4430	O	GLY	571	29.485	103.529	44.444	1.00 77.18	O
ATOM	4431	N	VAL	572	29.092	102.668	46.478	1.00154.95	N
ATOM	4432	CA	VAL	572	28.615	103.958	46.939	1.00154.95	C
ATOM	4433	CB	VAL	572	27.232	104.300	46.453	1.00154.95	C

ATOM	4434	CG1	VAL	572	26.236	103.224	46.922	1.00154.95	C
ATOM	4435	CG2	VAL	572	26.891	105.728	46.913	1.00154.95	C
ATOM	4436	C	VAL	572	28.652	104.003	48.448	1.00154.95	C
ATOM	4437	O	VAL	572	27.903	103.273	49.097	1.00154.95	O
ATOM	4438	N	ILE	573	29.473	104.901	49.059	1.00167.19	N
ATOM	4439	CA	ILE	573	29.607	104.900	50.503	1.00167.19	C
ATOM	4440	CB	ILE	573	31.051	104.930	50.956	1.00167.19	C
ATOM	4441	CG1	ILE	573	31.200	104.652	52.467	1.00167.19	C
ATOM	4442	CG2	ILE	573	31.702	106.233	50.462	1.00167.19	C
ATOM	4443	CD1	ILE	573	30.657	105.736	53.396	1.00167.19	C
ATOM	4444	C	ILE	573	28.823	106.034	51.120	1.00167.19	C
ATOM	4445	O	ILE	573	29.208	107.198	51.041	1.00167.19	O
ATOM	4446	N	VAL	574	27.591	105.742	51.598	1.00141.15	N
ATOM	4447	CA	VAL	574	26.784	106.740	52.253	1.00141.15	C
ATOM	4448	CB	VAL	574	25.362	106.661	51.769	1.00141.15	C
ATOM	4449	CG1	VAL	574	25.372	106.991	50.266	1.00141.15	C
ATOM	4450	CG2	VAL	574	24.790	105.261	52.065	1.00141.15	C
ATOM	4451	C	VAL	574	26.775	106.833	53.767	1.00141.15	C
ATOM	4452	O	VAL	574	27.335	107.759	54.354	1.00141.15	O
ATOM	4453	N	GLU	575	26.207	105.795	54.438	1.00112.18	N
ATOM	4454	CA	GLU	575	25.840	105.887	55.833	1.00112.18	C
ATOM	4455	CB	GLU	575	24.444	105.289	56.092	1.00112.18	C
ATOM	4456	CG	GLU	575	23.299	105.992	55.352	1.00112.18	C
ATOM	4457	CD	GLU	575	22.057	105.117	55.478	1.00112.18	C
ATOM	4458	OE1	GLU	575	22.219	103.901	55.768	1.00112.18	O
ATOM	4459	OE2	GLU	575	20.931	105.642	55.283	1.00112.18	O
ATOM	4460	C	GLU	575	26.794	105.111	56.680	1.00112.18	C
ATOM	4461	O	GLU	575	26.817	103.882	56.628	1.00112.18	O
ATOM	4462	N	LYS	576	27.582	105.816	57.521	1.00102.19	N
ATOM	4463	CA	LYS	576	28.497	105.127	58.386	1.00102.19	C
ATOM	4464	CB	LYS	576	29.972	105.557	58.252	1.00102.19	C
ATOM	4465	CG	LYS	576	30.643	105.036	56.976	1.00102.19	C
ATOM	4466	CD	LYS	576	32.031	105.625	56.725	1.00102.19	C
ATOM	4467	CE	LYS	576	32.705	105.114	55.450	1.00102.19	C
ATOM	4468	NZ	LYS	576	34.081	105.649	55.370	1.00102.19	N
ATOM	4469	C	LYS	576	28.044	105.363	59.786	1.00102.19	C
ATOM	4470	O	LYS	576	27.413	106.377	60.079	1.00102.19	O
ATOM	4471	N	GLY	577	28.310	104.393	60.684	1.00 54.80	N
ATOM	4472	CA	GLY	577	27.913	104.576	62.044	1.00 54.80	C
ATOM	4473	C	GLY	577	27.380	103.289	62.583	1.00 54.80	C
ATOM	4474	O	GLY	577	27.398	102.259	61.909	1.00 54.80	O
ATOM	4475	N	ASN	578	26.852	103.336	63.826	1.00131.83	N
ATOM	4476	CA	ASN	578	26.407	102.129	64.455	1.00131.83	C
ATOM	4477	CB	ASN	578	26.291	102.161	65.994	1.00131.83	C
ATOM	4478	CG	ASN	578	25.103	103.004	66.418	1.00131.83	C
ATOM	4479	OD1	ASN	578	25.214	104.214	66.596	1.00131.83	O
ATOM	4480	ND2	ASN	578	23.926	102.348	66.598	1.00131.83	N
ATOM	4481	C	ASN	578	25.082	101.716	63.901	1.00131.83	C
ATOM	4482	O	ASN	578	24.400	102.464	63.202	1.00131.83	O
ATOM	4483	N	HIS	579	24.688	100.480	64.247	1.00126.66	N
ATOM	4484	CA	HIS	579	23.555	99.800	63.683	1.00126.66	C
ATOM	4485	ND1	HIS	579	21.848	97.203	62.638	1.00126.66	N
ATOM	4486	CG	HIS	579	22.070	97.773	63.870	1.00126.66	C
ATOM	4487	CB	HIS	579	23.356	98.408	64.297	1.00126.66	C
ATOM	4488	NE2	HIS	579	19.958	96.987	63.792	1.00126.66	N
ATOM	4489	CD2	HIS	579	20.906	97.634	64.562	1.00126.66	C
ATOM	4490	CE1	HIS	579	20.569	96.747	62.646	1.00126.66	C
ATOM	4491	C	HIS	579	22.264	100.520	63.836	1.00126.66	C
ATOM	4492	O	HIS	579	21.584	100.774	62.841	1.00126.66	O
ATOM	4493	N	ASP	580	21.915	100.908	65.070	1.00 88.75	N
ATOM	4494	CA	ASP	580	20.640	101.496	65.331	1.00 88.75	C
ATOM	4495	CB	ASP	580	20.506	101.934	66.797	1.00 88.75	C
ATOM	4496	CG	ASP	580	20.580	100.671	67.635	1.00 88.75	C
ATOM	4497	OD1	ASP	580	19.566	99.927	67.682	1.00 88.75	O
ATOM	4498	OD2	ASP	580	21.662	100.434	68.237	1.00 88.75	O
ATOM	4499	C	ASP	580	20.570	102.714	64.496	1.00 88.75	C
ATOM	4500	O	ASP	580	19.485	103.143	64.115	1.00 88.75	O
ATOM	4501	N	GLU	581	21.737	103.327	64.238	1.00 65.52	N
ATOM	4502	CA	GLU	581	21.788	104.520	63.453	1.00 65.52	C
ATOM	4503	CB	GLU	581	23.201	105.111	63.402	1.00 65.52	C
ATOM	4504	CG	GLU	581	23.671	105.599	64.768	1.00 65.52	C
ATOM	4505	CD	GLU	581	25.098	106.098	64.614	1.00 65.52	C
ATOM	4506	OE1	GLU	581	25.671	105.914	63.508	1.00 65.52	O
ATOM	4507	OE2	GLU	581	25.637	106.656	65.606	1.00 65.52	O

ATOM	4508	C	GLU	581	21.371	104.239	62.040	1.00	65.52	C
ATOM	4509	O	GLU	581	20.579	104.986	61.473	1.00	65.52	O
ATOM	4510	N	LEU	582	21.899	103.160	61.427	1.00	140.05	N
ATOM	4511	CA	LEU	582	21.584	102.858	60.053	1.00	140.05	C
ATOM	4512	CB	LEU	582	22.439	101.734	59.437	1.00	140.05	C
ATOM	4513	CG	LEU	582	23.903	102.129	59.183	1.00	140.05	C
ATOM	4514	CD1	LEU	582	23.982	103.348	58.261	1.00	140.05	C
ATOM	4515	CD2	LEU	582	24.687	102.306	60.484	1.00	140.05	C
ATOM	4516	C	LEU	582	20.160	102.432	59.881	1.00	140.05	C
ATOM	4517	O	LEU	582	19.556	102.697	58.841	1.00	140.05	O
ATOM	4518	N	MET	583	19.632	101.646	60.838	1.00	84.56	N
ATOM	4519	CA	MET	583	18.251	101.240	60.819	1.00	84.56	C
ATOM	4520	CB	MET	583	17.935	100.228	61.928	1.00	84.56	C
ATOM	4521	CG	MET	583	18.631	98.884	61.734	1.00	84.56	C
ATOM	4522	SD	MET	583	17.892	97.817	60.464	1.00	84.56	S
ATOM	4523	CE	MET	583	16.569	97.235	61.561	1.00	84.56	C
ATOM	4524	C	MET	583	17.410	102.445	61.106	1.00	84.56	C
ATOM	4525	O	MET	583	16.380	102.666	60.471	1.00	84.56	O
ATOM	4526	N	LYS	584	17.860	103.276	62.069	1.00	103.08	N
ATOM	4527	CA	LYS	584	17.118	104.425	62.494	1.00	103.08	C
ATOM	4528	CB	LYS	584	17.826	105.257	63.580	1.00	103.08	C
ATOM	4529	CG	LYS	584	17.011	106.473	64.028	1.00	103.08	C
ATOM	4530	CD	LYS	584	17.540	107.149	65.292	1.00	103.08	C
ATOM	4531	CE	LYS	584	18.376	108.397	65.006	1.00	103.08	C
ATOM	4532	NZ	LYS	584	18.692	109.096	66.272	1.00	103.08	N
ATOM	4533	C	LYS	584	16.975	105.299	61.303	1.00	103.08	C
ATOM	4534	O	LYS	584	15.951	105.959	61.120	1.00	103.08	O
ATOM	4535	N	GLU	585	18.035	105.326	60.478	1.00	97.84	N
ATOM	4536	CA	GLU	585	18.047	106.108	59.286	1.00	97.84	C
ATOM	4537	CB	GLU	585	19.426	106.137	58.606	1.00	97.84	C
ATOM	4538	CG	GLU	585	19.634	107.386	57.746	1.00	97.84	C
ATOM	4539	CD	GLU	585	19.764	108.588	58.681	1.00	97.84	C
ATOM	4540	OE1	GLU	585	19.138	108.577	59.773	1.00	97.84	O
ATOM	4541	OE2	GLU	585	20.499	109.542	58.313	1.00	97.84	O
ATOM	4542	C	GLU	585	17.025	105.531	58.356	1.00	97.84	C
ATOM	4543	O	GLU	585	16.361	106.265	57.626	1.00	97.84	O
ATOM	4544	N	LYS	586	16.849	104.193	58.386	1.00	118.21	N
ATOM	4545	CA	LYS	586	15.914	103.552	57.502	1.00	118.21	C
ATOM	4546	CB	LYS	586	14.496	104.145	57.593	1.00	118.21	C
ATOM	4547	CG	LYS	586	13.806	103.966	58.949	1.00	118.21	C
ATOM	4548	CD	LYS	586	13.562	102.505	59.334	1.00	118.21	C
ATOM	4549	CE	LYS	586	12.865	102.341	60.686	1.00	118.21	C
ATOM	4550	NZ	LYS	586	12.449	100.934	60.877	1.00	118.21	N
ATOM	4551	C	LYS	586	16.410	103.827	56.131	1.00	118.21	C
ATOM	4552	O	LYS	586	15.636	103.986	55.187	1.00	118.21	O
ATOM	4553	N	GLY	587	17.747	103.868	56.000	1.00	42.33	N
ATOM	4554	CA	GLY	587	18.360	104.167	54.750	1.00	42.33	C
ATOM	4555	C	GLY	587	18.742	102.883	54.096	1.00	42.33	C
ATOM	4556	O	GLY	587	17.973	101.921	54.051	1.00	42.33	O
ATOM	4557	N	ILE	588	19.970	102.857	53.553	1.00	133.62	N
ATOM	4558	CA	ILE	588	20.415	101.717	52.820	1.00	133.62	C
ATOM	4559	CB	ILE	588	21.812	101.900	52.301	1.00	133.62	C
ATOM	4560	CG1	ILE	588	21.879	103.087	51.331	1.00	133.62	C
ATOM	4561	CG2	ILE	588	22.258	100.571	51.671	1.00	133.62	C
ATOM	4562	CD1	ILE	588	21.056	102.874	50.063	1.00	133.62	C
ATOM	4563	C	ILE	588	20.462	100.522	53.712	1.00	133.62	C
ATOM	4564	O	ILE	588	19.895	99.477	53.386	1.00	133.62	O
ATOM	4565	N	TYR	589	21.083	100.675	54.898	1.00	143.51	N
ATOM	4566	CA	TYR	589	21.312	99.548	55.755	1.00	143.51	C
ATOM	4567	CB	TYR	589	21.922	100.004	57.090	1.00	143.51	C
ATOM	4568	CG	TYR	589	22.246	98.806	57.906	1.00	143.51	C
ATOM	4569	CD1	TYR	589	23.382	98.076	57.648	1.00	143.51	C
ATOM	4570	CD2	TYR	589	21.422	98.419	58.933	1.00	143.51	C
ATOM	4571	CE1	TYR	589	23.691	96.972	58.402	1.00	143.51	C
ATOM	4572	CE2	TYR	589	21.726	97.316	59.692	1.00	143.51	C
ATOM	4573	CZ	TYR	589	22.862	96.590	59.429	1.00	143.51	C
ATOM	4574	OH	TYR	589	23.165	95.459	60.216	1.00	143.51	O
ATOM	4575	C	TYR	589	20.003	98.876	56.041	1.00	143.51	C
ATOM	4576	O	TYR	589	19.796	97.705	55.720	1.00	143.51	O
ATOM	4577	N	PHE	590	19.038	99.659	56.530	1.00	118.21	N
ATOM	4578	CA	PHE	590	17.748	99.162	56.902	1.00	118.21	C
ATOM	4579	CB	PHE	590	16.823	100.294	57.394	1.00	118.21	C
ATOM	4580	CG	PHE	590	15.438	99.766	57.541	1.00	118.21	C
ATOM	4581	CD1	PHE	590	15.035	99.116	58.686	1.00	118.21	C

ATOM	4582	CD2	PHE	590	14.530	99.929	56.519	1.00118.21	C
ATOM	4583	CE1	PHE	590	13.751	98.637	58.805	1.00118.21	C
ATOM	4584	CE2	PHE	590	13.245	99.455	56.632	1.00118.21	C
ATOM	4585	CZ	PHE	590	12.855	98.804	57.777	1.00118.21	C
ATOM	4586	C	PHE	590	17.105	98.537	55.697	1.00118.21	C
ATOM	4587	O	PHE	590	16.600	97.413	55.746	1.00118.21	O
ATOM	4588	N	LYS	591	17.159	99.249	54.558	1.00115.69	N
ATOM	4589	CA	LYS	591	16.481	98.861	53.359	1.00115.69	C
ATOM	4590	CB	LYS	591	16.762	99.853	52.218	1.00115.69	C
ATOM	4591	CG	LYS	591	16.122	99.512	50.872	1.00115.69	C
ATOM	4592	CD	LYS	591	16.085	100.716	49.931	1.00115.69	C
ATOM	4593	CE	LYS	591	15.895	100.367	48.456	1.00115.69	C
ATOM	4594	NZ	LYS	591	17.195	99.966	47.871	1.00115.69	N
ATOM	4595	C	LYS	591	16.953	97.519	52.925	1.00115.69	C
ATOM	4596	O	LYS	591	16.174	96.592	52.706	1.00115.69	O
ATOM	4597	N	LEU	592	18.274	97.368	52.838	1.00147.29	N
ATOM	4598	CA	LEU	592	18.823	96.125	52.413	1.00147.29	C
ATOM	4599	CB	LEU	592	20.353	96.148	52.318	1.00147.29	C
ATOM	4600	CG	LEU	592	20.911	96.879	51.085	1.00147.29	C
ATOM	4601	CD1	LEU	592	20.400	98.320	50.956	1.00147.29	C
ATOM	4602	CD2	LEU	592	22.440	96.825	51.107	1.00147.29	C
ATOM	4603	C	LEU	592	18.465	95.075	53.399	1.00147.29	C
ATOM	4604	O	LEU	592	18.254	93.918	53.029	1.00147.29	O
ATOM	4605	N	VAL	593	18.382	95.472	54.681	1.00112.89	N
ATOM	4606	CA	VAL	593	18.142	94.531	55.731	1.00112.89	C
ATOM	4607	CB	VAL	593	17.950	95.168	57.080	1.00112.89	C
ATOM	4608	CG1	VAL	593	17.399	94.103	58.042	1.00112.89	C
ATOM	4609	CG2	VAL	593	19.298	95.741	57.552	1.00112.89	C
ATOM	4610	C	VAL	593	16.888	93.787	55.379	1.00112.89	C
ATOM	4611	O	VAL	593	16.859	92.557	55.357	1.00112.89	O
ATOM	4612	N	THR	594	15.836	94.532	55.011	1.00177.85	N
ATOM	4613	CA	THR	594	14.560	93.938	54.734	1.00177.85	C
ATOM	4614	CB	THR	594	13.479	94.966	54.563	1.00177.85	C
ATOM	4615	OG1	THR	594	13.761	95.792	53.442	1.00177.85	O
ATOM	4616	CG2	THR	594	13.404	95.820	55.843	1.00177.85	C
ATOM	4617	C	THR	594	14.590	93.117	53.470	1.00177.85	C
ATOM	4618	O	THR	594	14.052	92.013	53.398	1.00177.85	O
ATOM	4619	N	MET	595	15.288	93.637	52.453	1.00191.32	N
ATOM	4620	CA	MET	595	15.363	93.172	51.092	1.00191.32	C
ATOM	4621	CB	MET	595	16.102	94.171	50.177	1.00191.32	C
ATOM	4622	CG	MET	595	15.830	93.962	48.686	1.00191.32	C
ATOM	4623	SD	MET	595	14.271	94.686	48.087	1.00191.32	S
ATOM	4624	CE	MET	595	13.157	93.866	49.266	1.00191.32	C
ATOM	4625	C	MET	595	16.116	91.865	50.978	1.00191.32	C
ATOM	4626	O	MET	595	16.198	91.280	49.899	1.00191.32	O
ATOM	4627	N	GLN	596	16.658	91.364	52.097	1.00231.88	N
ATOM	4628	CA	GLN	596	17.782	90.472	52.224	1.00231.88	C
ATOM	4629	CB	GLN	596	18.006	90.004	53.665	1.00231.88	C
ATOM	4630	CG	GLN	596	19.275	89.161	53.775	1.00231.88	C
ATOM	4631	CD	GLN	596	19.626	89.071	55.247	1.00231.88	C
ATOM	4632	OE1	GLN	596	19.366	90.002	56.005	1.00231.88	O
ATOM	4633	NE2	GLN	596	20.232	87.934	55.674	1.00231.88	N
ATOM	4634	C	GLN	596	18.081	89.243	51.365	1.00231.88	C
ATOM	4635	O	GLN	596	19.246	89.110	51.002	1.00231.88	O
ATOM	4636	N	THR	597	17.200	88.306	50.970	1.00447.00	N
ATOM	4637	CA	THR	597	17.834	87.039	50.441	1.00447.00	C
ATOM	4638	CB	THR	597	17.444	85.873	51.289	1.00447.00	C
ATOM	4639	OG1	THR	597	16.036	85.699	51.232	1.00447.00	O
ATOM	4640	CG2	THR	597	17.875	86.148	52.741	1.00447.00	C
ATOM	4641	C	THR	597	17.632	86.525	48.863	1.00447.00	C
ATOM	4642	O	THR	597	17.251	87.540	48.266	1.00447.00	O
ATOM	4643	N	LEU	598	17.967	85.137	48.221	1.00422.07	N
ATOM	4644	CA	LEU	598	17.773	84.262	46.829	1.00422.07	C
ATOM	4645	CB	LEU	598	17.818	85.213	45.608	1.00422.07	C
ATOM	4646	CG	LEU	598	17.831	84.530	44.218	1.00422.07	C
ATOM	4647	CD1	LEU	598	16.590	83.659	43.975	1.00422.07	C
ATOM	4648	CD2	LEU	598	18.075	85.558	43.102	1.00422.07	C
ATOM	4649	C	LEU	598	18.521	82.820	46.218	1.00422.07	C
ATOM	4650	O	LEU	598	19.576	82.940	45.592	1.00422.07	O
ATOM	4651	N	ASP	599	18.021	81.443	46.160	1.00241.56	N
ATOM	4652	CA	ASP	599	18.678	80.136	45.543	1.00241.56	C
ATOM	4653	CB	ASP	599	19.600	79.413	46.545	1.00241.56	C
ATOM	4654	CG	ASP	599	20.896	80.206	46.671	1.00241.56	C
ATOM	4655	OD1	ASP	599	21.477	80.559	45.610	1.00241.56	O

ATOM	4656	OD2	ASP	599	21.321	80.471	47.827	1.00241.56	0
ATOM	4657	C	ASP	599	17.768	78.971	44.869	1.00241.56	C
ATOM	4658	O	ASP	599	16.555	79.029	45.018	1.00241.56	O
ATOM	4659	N	GLU	600	18.295	77.848	44.142	1.00403.86	N
ATOM	4660	CA	GLU	600	17.479	76.831	43.334	1.00403.86	C
ATOM	4661	CB	GLU	600	17.042	77.466	42.006	1.00403.86	C
ATOM	4662	CG	GLU	600	18.185	78.246	41.351	1.00403.86	C
ATOM	4663	CD	GLU	600	18.171	79.640	41.960	1.00403.86	C
ATOM	4664	OE1	GLU	600	17.182	80.360	41.667	1.00403.86	O
ATOM	4665	OE2	GLU	600	19.112	80.007	42.714	1.00403.86	O
ATOM	4666	C	GLU	600	17.987	75.390	42.975	1.00403.86	C
ATOM	4667	O	GLU	600	18.792	74.788	43.675	1.00403.86	O
ATOM	4668	N	SER	601	17.383	74.753	41.895	1.00269.11	N
ATOM	4669	CA	SER	601	17.611	73.437	41.232	1.00269.11	C
ATOM	4670	CB	SER	601	19.081	72.962	41.215	1.00269.11	C
ATOM	4671	OG	SER	601	19.525	72.610	42.517	1.00269.11	O
ATOM	4672	C	SER	601	16.760	72.380	41.879	1.00269.11	C
ATOM	4673	O	SER	601	16.434	72.487	43.060	1.00269.11	O
ATOM	4674	N	ILE	602	16.348	71.328	41.120	1.00233.87	N
ATOM	4675	CA	ILE	602	15.508	70.345	41.765	1.00233.87	C
ATOM	4676	CB	ILE	602	14.050	70.651	41.595	1.00233.87	C
ATOM	4677	CG1	ILE	602	13.212	69.780	42.537	1.00233.87	C
ATOM	4678	CG2	ILE	602	13.696	70.465	40.112	1.00233.87	C
ATOM	4679	CD1	ILE	602	13.514	70.002	44.018	1.00233.87	C
ATOM	4680	C	ILE	602	15.738	68.911	41.338	1.00233.87	C
ATOM	4681	O	ILE	602	15.782	68.565	40.155	1.00233.87	O
ATOM	4682	N	PRO	603	15.887	68.073	42.345	1.00 83.14	N
ATOM	4683	CA	PRO	603	16.038	66.643	42.158	1.00 83.14	C
ATOM	4684	CD	PRO	603	16.594	68.529	43.533	1.00 83.14	C
ATOM	4685	CB	PRO	603	16.607	66.104	43.467	1.00 83.14	C
ATOM	4686	CG	PRO	603	17.359	67.306	44.062	1.00 83.14	C
ATOM	4687	C	PRO	603	14.821	65.873	41.702	1.00 83.14	C
ATOM	4688	O	PRO	603	15.010	64.840	41.063	1.00 83.14	O
ATOM	4689	N	PRO	604	13.609	66.272	41.980	1.00 93.79	N
ATOM	4690	CA	PRO	604	12.511	65.449	41.531	1.00 93.79	C
ATOM	4691	CD	PRO	604	13.313	66.857	43.278	1.00 93.79	C
ATOM	4692	CB	PRO	604	11.277	65.973	42.258	1.00 93.79	C
ATOM	4693	CG	PRO	604	11.857	66.463	43.598	1.00 93.79	C
ATOM	4694	C	PRO	604	12.411	65.369	40.046	1.00 93.79	C
ATOM	4695	O	PRO	604	12.687	66.354	39.365	1.00 93.79	O
ATOM	4696	N	VAL	605	11.986	64.200	39.532	1.00128.08	N
ATOM	4697	CA	VAL	605	11.947	63.945	38.120	1.00128.08	C
ATOM	4698	CB	VAL	605	12.758	62.720	37.783	1.00128.08	C
ATOM	4699	CG1	VAL	605	12.883	62.540	36.259	1.00128.08	C
ATOM	4700	CG2	VAL	605	14.108</				

ATOM	4730	CZ3	TRP	608	7.412	55.987	28.878	1.00163.52	C
ATOM	4731	CH2	TRP	608	8.145	54.828	29.023	1.00163.52	C
ATOM	4732	C	TRP	608	5.070	59.885	32.818	1.00163.52	C
ATOM	4733	O	TRP	608	4.024	59.948	32.175	1.00163.52	O
ATOM	4734	N	ARG	609	5.321	60.711	33.849	1.00129.66	N
ATOM	4735	CA	ARG	609	4.332	61.627	34.345	1.00129.66	C
ATOM	4736	CB	ARG	609	4.851	62.420	35.557	1.00129.66	C
ATOM	4737	CG	ARG	609	3.853	63.422	36.140	1.00129.66	C
ATOM	4738	CD	ARG	609	4.545	64.551	36.907	1.00129.66	C
ATOM	4739	NE	ARG	609	3.498	65.406	37.534	1.00129.66	N
ATOM	4740	CZ	ARG	609	3.163	65.206	38.841	1.00129.66	C
ATOM	4741	NH1	ARG	609	3.807	64.245	39.567	1.00129.66	N
ATOM	4742	NH2	ARG	609	2.199	65.976	39.426	1.00129.66	N
ATOM	4743	C	ARG	609	4.036	62.637	33.298	1.00129.66	C
ATOM	4744	O	ARG	609	2.883	62.890	32.960	1.00129.66	O
ATOM	4745	N	ILE	610	5.105	63.212	32.735	1.00 97.58	N
ATOM	4746	CA	ILE	610	5.035	64.228	31.742	1.00 97.58	C
ATOM	4747	CB	ILE	610	6.385	64.766	31.363	1.00 97.58	C
ATOM	4748	CG1	ILE	610	7.265	63.668	30.749	1.00 97.58	C
ATOM	4749	CG2	ILE	610	6.986	65.426	32.618	1.00 97.58	C
ATOM	4750	CD1	ILE	610	8.563	64.198	30.142	1.00 97.58	C
ATOM	4751	C	ILE	610	4.387	63.639	30.548	1.00 97.58	C
ATOM	4752	O	ILE	610	3.940	64.383	29.690	1.00 97.58	O
ATOM	4753	N	MET	611	4.488	62.309	30.361	1.00103.76	N
ATOM	4754	CA	MET	611	3.766	61.664	29.297	1.00103.76	C
ATOM	4755	CB	MET	611	4.102	60.167	29.223	1.00103.76	C
ATOM	4756	CG	MET	611	3.377	59.407	28.114	1.00103.76	C
ATOM	4757	SD	MET	611	3.706	57.619	28.118	1.00103.76	S
ATOM	4758	CE	MET	611	2.988	57.325	26.477	1.00103.76	C
ATOM	4759	C	MET	611	2.303	61.768	29.611	1.00103.76	C
ATOM	4760	O	MET	611	1.494	62.151	28.766	1.00103.76	O
ATOM	4761	N	LYS	612	1.935	61.451	30.869	1.00 50.27	N
ATOM	4762	CA	LYS	612	0.552	61.440	31.260	1.00 50.27	C
ATOM	4763	CB	LYS	612	0.362	61.052	32.735	1.00 50.27	C
ATOM	4764	CG	LYS	612	0.867	59.655	33.099	1.00 50.27	C
ATOM	4765	CD	LYS	612	0.983	59.437	34.609	1.00 50.27	C
ATOM	4766	CE	LYS	612	1.480	58.043	34.998	1.00 50.27	C
ATOM	4767	NZ	LYS	612	1.686	57.962	36.461	1.00 50.27	N
ATOM	4768	C	LYS	612	0.033	62.828	31.133	1.00 50.27	C
ATOM	4769	O	LYS	612	-0.961	63.087	30.456	1.00 50.27	O
ATOM	4770	N	LEU	613	0.742	63.774	31.765	1.00121.08	N
ATOM	4771	CA	LEU	613	0.366	65.149	31.700	1.00121.08	C
ATOM	4772	CB	LEU	613	1.151	66.130	32.591	1.00121.08	C
ATOM	4773	CG	LEU	613	0.727	66.137	34.072	1.00121.08	C
ATOM	4774	CD1	LEU	613	1.197	64.882	34.822	1.00121.08	C
ATOM	4775	CD2	LEU	613	1.132	67.451	34.754	1.00121.08	C
ATOM	4776	C	LEU	613	0.542	65.588	30.295	1.00121.08	C
ATOM	4777	O	LEU	613	-0.083	66.567	29.890	1.00121.08	O
ATOM	4778	N	ASN	614	1.420	64.897	29.533	1.00102.05	N
ATOM	4779	CA	ASN	614	1.687	65.288	28.173	1.00102.05	C
ATOM	4780	CB	ASN	614	2.479	64.266	27.315	1.00102.05	C
ATOM	4781	CG	ASN	614	3.903	64.726	26.997	1.00102.05	C
ATOM	4782	OD1	ASN	614	4.252	65.892	27.172	1.00102.05	O
ATOM	4783	ND2	ASN	614	4.742	63.778	26.498	1.00102.05	N
ATOM	4784	C	ASN	614	0.373	65.378	27.494	1.00102.05	C
ATOM	4785	O	ASN	614	-0.038	66.450	27.062	1.00102.05	O
ATOM	4786	N	LEU	615	-0.377	64.275	27.528	1.00115.08	N
ATOM	4787	CA	LEU	615	-1.653	64.179	26.892	1.00115.08	C
ATOM	4788	CB	LEU	615	-2.270	62.779	27.151	1.00115.08	C
ATOM	4789	CG	LEU	615	-3.644	62.437	26.523	1.00115.08	C
ATOM	4790	CD1	LEU	615	-4.043	60.998	26.899	1.00115.08	C
ATOM	4791	CD2	LEU	615	-4.754	63.431	26.897	1.00115.08	C
ATOM	4792	C	LEU	615	-2.520	65.239	27.505	1.00115.08	C
ATOM	4793	O	LEU	615	-3.382	65.802	26.834	1.00115.08	O
ATOM	4794	N	THR	616	-2.333	65.547	28.802	1.00 60.55	N
ATOM	4795	CA	THR	616	-3.160	66.558	29.406	1.00 60.55	C
ATOM	4796	CB	THR	616	-2.780	66.832	30.833	1.00 60.55	C
ATOM	4797	OG1	THR	616	-2.870	65.643	31.602	1.00 60.55	O
ATOM	4798	CG2	THR	616	-3.726	67.903	31.402	1.00 60.55	C
ATOM	4799	C	THR	616	-2.930	67.824	28.646	1.00 60.55	C
ATOM	4800	O	THR	616	-3.848	68.554	28.280	1.00 60.55	O
ATOM	4801	N	GLU	617	-1.652	68.074	28.369	1.00159.59	N
ATOM	4802	CA	GLU	617	-1.105	69.174	27.643	1.00159.59	C
ATOM	4803	CB	GLU	617	0.409	69.222	27.818	1.00159.59	C

ATOM	4804	CG	GLU	617	0.800	69.644	29.234	1.00159.59	C
ATOM	4805	CD	GLU	617	2.123	68.977	29.544	1.00159.59	C
ATOM	4806	OE1	GLU	617	2.268	67.786	29.157	1.00159.59	O
ATOM	4807	OE2	GLU	617	2.996	69.630	30.172	1.00159.59	O
ATOM	4808	C	GLU	617	-1.450	68.982	26.204	1.00159.59	C
ATOM	4809	O	GLU	617	-0.830	69.592	25.341	1.00159.59	O
ATOM	4810	N	TRP	618	-2.314	67.995	25.898	1.00143.43	N
ATOM	4811	CA	TRP	618	-2.585	67.654	24.533	1.00143.43	C
ATOM	4812	CB	TRP	618	-1.888	66.301	24.293	1.00143.43	C
ATOM	4813	CG	TRP	618	-1.941	65.618	22.956	1.00143.43	C
ATOM	4814	CD2	TRP	618	-2.705	64.426	22.709	1.00143.43	C
ATOM	4815	CD1	TRP	618	-1.241	65.874	21.818	1.00143.43	C
ATOM	4816	NE1	TRP	618	-1.507	64.904	20.881	1.00143.43	N
ATOM	4817	CE2	TRP	618	-2.408	64.010	21.412	1.00143.43	C
ATOM	4818	CE3	TRP	618	-3.563	63.725	23.502	1.00143.43	C
ATOM	4819	CZ2	TRP	618	-2.971	62.883	20.886	1.00143.43	C
ATOM	4820	CZ3	TRP	618	-4.143	62.598	22.964	1.00143.43	C
ATOM	4821	CH2	TRP	618	-3.852	62.186	21.680	1.00143.43	C
ATOM	4822	C	TRP	618	-4.069	67.516	24.253	1.00143.43	C
ATOM	4823	O	TRP	618	-4.788	66.858	25.004	1.00143.43	O
ATOM	4824	N	PRO	619	-4.584	68.214	23.252	1.00124.54	N
ATOM	4825	CA	PRO	619	-5.929	68.020	22.753	1.00124.54	C
ATOM	4826	CD	PRO	619	-3.994	69.449	22.773	1.00124.54	C
ATOM	4827	CB	PRO	619	-6.241	69.237	21.885	1.00124.54	C
ATOM	4828	CG	PRO	619	-4.859	69.831	21.558	1.00124.54	C
ATOM	4829	C	PRO	619	-6.119	66.711	22.030	1.00124.54	C
ATOM	4830	O	PRO	619	-6.844	65.850	22.528	1.00124.54	O
ATOM	4831	N	TYR	620	-5.512	66.569	20.821	1.00137.03	N
ATOM	4832	CA	TYR	620	-5.472	65.315	20.108	1.00137.03	C
ATOM	4833	CB	TYR	620	-6.846	64.676	19.823	1.00137.03	C
ATOM	4834	CG	TYR	620	-7.517	65.392	18.710	1.00137.03	C
ATOM	4835	CD1	TYR	620	-7.282	65.003	17.411	1.00137.03	C
ATOM	4836	CD2	TYR	620	-8.380	66.433	18.955	1.00137.03	C
ATOM	4837	CE1	TYR	620	-7.892	65.646	16.364	1.00137.03	C
ATOM	4838	CE2	TYR	620	-8.994	67.081	17.909	1.00137.03	C
ATOM	4839	CZ	TYR	620	-8.750	66.688	16.615	1.00137.03	C
ATOM	4840	OH	TYR	620	-9.381	67.354	15.545	1.00137.03	O
ATOM	4841	C	TYR	620	-4.740	65.526	18.804	1.00137.03	C
ATOM	4842	O	TYR	620	-4.971	66.509	18.099	1.00137.03	O
ATOM	4843	N	PHE	621	-3.717	64.686	18.563	1.00265.15	N
ATOM	4844	CA	PHE	621	-2.852	64.588	17.421	1.00265.15	C
ATOM	4845	CB	PHE	621	-1.383	64.907	17.729	1.00265.15	C
ATOM	4846	CG	PHE	621	-1.396	66.391	17.859	1.00265.15	C
ATOM	4847	CD1	PHE	621	-1.419	67.174	16.733	1.00265.15	C
ATOM	4848	CD2	PHE	621	-1.434	67.015	19.083	1.00265.15	C
ATOM	4849	CE1	PHE	621	-1.447	68.544	16.832	1.00265.15	C
ATOM	4850	CE2	PHE	621	-1.461	68.386	19.192	1.00265.15	C
ATOM	4851	CZ	PHE	621	-1.465	69.158	18.059	1.00265.15	C
ATOM	4852	C	PHE	621	-2.928	63.415	16.509	1.00265.15	C
ATOM	4853	O	PHE	621	-2.009	63.314	15.702	1.00265.15	O
ATOM	4854	N	VAL	622	-3.864	62.456	16.663	1.00128.01	N
ATOM	4855	CA	VAL	622	-3.809	61.180	15.983	1.00128.01	C
ATOM	4856	CB	VAL	622	-5.108	60.425	16.046	1.00128.01	C
ATOM	4857	CG1	VAL	622	-6.195	61.261	15.353	1.00128.01	C
ATOM	4858	CG2	VAL	622	-4.902	59.042	15.400	1.00128.01	C
ATOM	4859	C	VAL	622	-3.482	61.358	14.535	1.00128.01	C
ATOM	4860	O	VAL	622	-2.779	60.538	13.946	1.00128.01	O
ATOM	4861	N	VAL	623	-3.960	62.454	13.931	1.00122.01	N
ATOM	4862	CA	VAL	623	-3.673	62.715	12.555	1.00122.01	C
ATOM	4863	CB	VAL	623	-4.189	64.060	12.153	1.00122.01	C
ATOM	4864	CG1	VAL	623	-3.723	65.089	13.201	1.00122.01	C
ATOM	4865	CG2	VAL	623	-3.674	64.368	10.738	1.00122.01	C
ATOM	4866	C	VAL	623	-2.186	62.710	12.339	1.00122.01	C
ATOM	4867	O	VAL	623	-1.693	62.022	11.447	1.00122.01	O
ATOM	4868	N	GLY	624	-1.415	63.442	13.165	1.00 50.45	N
ATOM	4869	CA	GLY	624	0.000	63.509	12.945	1.00 50.45	C
ATOM	4870	C	GLY	624	0.575	62.132	13.024	1.00 50.45	C
ATOM	4871	O	GLY	624	1.255	61.692	12.100	1.00 50.45	O
ATOM	4872	N	VAL	625	0.253	61.380	14.093	1.00 48.52	N
ATOM	4873	CA	VAL	625	0.816	60.068	14.236	1.00 48.52	C
ATOM	4874	CB	VAL	625	0.309	59.328	15.441	1.00 48.52	C
ATOM	4875	CG1	VAL	625	0.879	57.899	15.405	1.00 48.52	C
ATOM	4876	CG2	VAL	625	0.684	60.119	16.706	1.00 48.52	C
ATOM	4877	C	VAL	625	0.396	59.277	13.039	1.00 48.52	C

ATOM	4878	O	VAL	625	1.116	58.389	12.588	1.00	48.52	O
ATOM	4879	N	PHE	626	-0.795	59.586	12.497	1.00	111.65	N
ATOM	4880	CA	PHE	626	-1.311	58.839	11.388	1.00	111.65	C
ATOM	4881	CB	PHE	626	-2.694	59.338	10.940	1.00	111.65	C
ATOM	4882	CG	PHE	626	-3.228	58.340	9.971	1.00	111.65	C
ATOM	4883	CD1	PHE	626	-2.908	58.410	8.634	1.00	111.65	C
ATOM	4884	CD2	PHE	626	-4.047	57.324	10.407	1.00	111.65	C
ATOM	4885	CE1	PHE	626	-3.402	57.485	7.747	1.00	111.65	C
ATOM	4886	CE2	PHE	626	-4.544	56.396	9.524	1.00	111.65	C
ATOM	4887	CZ	PHE	626	-4.220	56.473	8.190	1.00	111.65	C
ATOM	4888	C	PHE	626	-0.377	58.945	10.215	1.00	111.65	C
ATOM	4889	O	PHE	626	0.073	57.938	9.673	1.00	111.65	O
ATOM	4890	N	CYS	627	-0.008	60.171	9.806	1.00	65.63	N
ATOM	4891	CA	CYS	627	0.856	60.297	8.668	1.00	65.63	C
ATOM	4892	CB	CYS	627	1.068	61.755	8.214	1.00	65.63	C
ATOM	4893	SG	CYS	627	1.820	62.810	9.486	1.00	65.63	S
ATOM	4894	C	CYS	627	2.174	59.700	9.034	1.00	65.63	C
ATOM	4895	O	CYS	627	2.909	59.236	8.163	1.00	65.63	O
ATOM	4896	N	ALA	628	2.500	59.689	10.345	1.00	63.15	N
ATOM	4897	CA	ALA	628	3.771	59.180	10.775	1.00	63.15	C
ATOM	4898	CB	ALA	628	3.896	59.122	12.306	1.00	63.15	C
ATOM	4899	C	ALA	628	3.870	57.788	10.269	1.00	63.15	C
ATOM	4900	O	ALA	628	4.851	57.424	9.623	1.00	63.15	O
ATOM	4901	N	ILE	629	2.813	56.989	10.477	1.00	187.52	N
ATOM	4902	CA	ILE	629	2.930	55.668	9.959	1.00	187.52	C
ATOM	4903	CB	ILE	629	1.947	54.656	10.489	1.00	187.52	C
ATOM	4904	CG1	ILE	629	0.486	55.108	10.435	1.00	187.52	C
ATOM	4905	CG2	ILE	629	2.407	54.327	11.917	1.00	187.52	C
ATOM	4906	CD1	ILE	629	0.136	56.018	11.617	1.00	187.52	C
ATOM	4907	C	ILE	629	3.032	55.671	8.459	1.00	187.52	C
ATOM	4908	O	ILE	629	3.818	54.903	7.907	1.00	187.52	O
ATOM	4909	N	ILE	630	2.287	56.539	7.740	1.00	106.76	N
ATOM	4910	CA	ILE	630	2.361	56.478	6.300	1.00	106.76	C
ATOM	4911	CB	ILE	630	1.376	57.374	5.588	1.00	106.76	C
ATOM	4912	CG1	ILE	630	1.693	58.873	5.734	1.00	106.76	C
ATOM	4913	CG2	ILE	630	-0.011	56.999	6.126	1.00	106.76	C
ATOM	4914	CD1	ILE	630	2.774	59.366	4.772	1.00	106.76	C
ATOM	4915	C	ILE	630	3.753	56.800	5.848	1.00	106.76	C
ATOM	4916	O	ILE	630	4.291	56.128	4.967	1.00	106.76	O
ATOM	4917	N	ASN	631	4.391	57.808	6.472	1.00	70.59	N
ATOM	4918	CA	ASN	631	5.704	58.233	6.083	1.00	70.59	C
ATOM	4919	CB	ASN	631	6.270	59.286	7.049	1.00	70.59	C
ATOM	4920	CG	ASN	631	7.532	59.883	6.450	1.00	70.59	C
ATOM	4921	OD1	ASN	631	8.333	59.189	5.828	1.00	70.59	O
ATOM	4922	ND2	ASN	631	7.712	61.217	6.646	1.00	70.59	N
ATOM	4923	C	ASN	631	6.579	57.035	6.164	1.00	70.59	C
ATOM	4924	O	ASN	631	7.405	56.780	5.284	1.00	70.59	O
ATOM	4925	N	GLY	632	6.377	56.236	7.222	1.00	58.27	N
ATOM	4926	CA	GLY	632	7.206	55.098	7.371	1.00	58.27	C
ATOM	4927	C	GLY	632	7.041	54.216	6.181	1.00	58.27	C
ATOM	4928	O	GLY	632	8.024	53.822	5.564	1.00	58.27	O
ATOM	4929	N	GLY	633	5.793	53.938	5.774	1.00	49.50	N
ATOM	4930	CA	GLY	633	5.558	53.052	4.667	1.00	49.50	C
ATOM	4931	C	GLY	633	6.213	53.621	3.449	1.00	49.50	C
ATOM	4932	O	GLY	633	6.724	52.884	2.605	1.00	49.50	O
ATOM	4933	N	LEU	634	6.233	54.964	3.341	1.00	140.73	N
ATOM	4934	CA	LEU	634	6.779	55.603	2.176	1.00	140.73	C
ATOM	4935	CB	LEU	634	6.936	57.129	2.322	1.00	140.73	C
ATOM	4936	CG	LEU	634	5.729	58.006	1.946	1.00	140.73	C
ATOM	4937	CD1	LEU	634	4.443	57.609	2.673	1.00	140.73	C
ATOM	4938	CD2	LEU	634	6.082	59.486	2.166	1.00	140.73	C
ATOM	4939	C	LEU	634	8.173	55.109	1.958	1.00	140.73	C
ATOM	4940	O	LEU	634	8.564	54.845	0.819	1.00	140.73	O
ATOM	4941	N	GLN	635	8.956	54.980	3.045	1.00	104.52	N
ATOM	4942	CA	GLN	635	10.329	54.582	2.906	1.00	104.52	C
ATOM	4943	CB	GLN	635	11.105	54.684	4.233	1.00	104.52	C
ATOM	4944	CG	GLN	635	12.599	54.381	4.107	1.00	104.52	C
ATOM	4945	CD	GLN	635	13.277	55.613	3.524	1.00	104.52	C
ATOM	4946	OE1	GLN	635	13.475	56.613	4.212	1.00	104.52	O
ATOM	4947	NE2	GLN	635	13.644	55.540	2.217	1.00	104.52	N
ATOM	4948	C	GLN	635	10.449	53.186	2.351	1.00	104.52	C
ATOM	4949	O	GLN	635	11.096	53.026	1.316	1.00	104.52	O
ATOM	4950	N	PRO	636	9.831	52.164	2.902	1.00	102.95	N
ATOM	4951	CA	PRO	636	10.016	50.890	2.273	1.00	102.95	C

ATOM	4952	CD	PRO	636	9.745	51.996	4.342	1.00102.95	C
ATOM	4953	CB	PRO	636	9.418	49.867	3.227	1.00102.95	C
ATOM	4954	CG	PRO	636	9.712	50.482	4.605	1.00102.95	C
ATOM	4955	C	PRO	636	9.467	50.867	0.883	1.00102.95	C
ATOM	4956	O	PRO	636	9.951	50.099	0.051	1.00102.95	O
ATOM	4957	N	ALA	637	8.480	51.727	0.596	1.00 48.58	N
ATOM	4958	CA	ALA	637	7.879	51.741	-0.710	1.00 48.58	C
ATOM	4959	CB	ALA	637	6.785	52.814	-0.845	1.00 48.58	C
ATOM	4960	C	ALA	637	8.947	52.049	-1.710	1.00 48.58	C
ATOM	4961	O	ALA	637	9.015	51.444	-2.778	1.00 48.58	O
ATOM	4962	N	PHE	638	9.843	52.985	-1.362	1.00 80.01	N
ATOM	4963	CA	PHE	638	10.902	53.379	-2.243	1.00 80.01	C
ATOM	4964	CB	PHE	638	11.805	54.463	-1.633	1.00 80.01	C
ATOM	4965	CG	PHE	638	13.023	54.575	-2.482	1.00 80.01	C
ATOM	4966	CD1	PHE	638	13.040	55.343	-3.624	1.00 80.01	C
ATOM	4967	CD2	PHE	638	14.166	53.898	-2.120	1.00 80.01	C
ATOM	4968	CE1	PHE	638	14.181	55.430	-4.389	1.00 80.01	C
ATOM	4969	CE2	PHE	638	15.307	53.981	-2.882	1.00 80.01	C
ATOM	4970	CZ	PHE	638	15.315	54.749	-4.019	1.00 80.01	C
ATOM	4971	C	PHE	638	11.749	52.199	-2.512	1.00 80.01	C
ATOM	4972	O	PHE	638	12.220	52.000	-3.634	1.00 80.01	O
ATOM	4973	N	ALA	639	11.946	51.375	-1.474	1.00 57.78	N
ATOM	4974	CA	ALA	639	12.804	50.251	-1.632	1.00 57.78	C
ATOM	4975	CB	ALA	639	12.813	49.392	-0.365	1.00 57.78	C
ATOM	4976	C	ALA	639	12.291	49.414	-2.784	1.00 57.78	C
ATOM	4977	O	ALA	639	13.072	48.986	-3.634	1.00 57.78	O
ATOM	4978	N	ILE	640	10.964	49.174	-2.859	1.00119.28	N
ATOM	4979	CA	ILE	640	10.397	48.366	-3.918	1.00119.28	C
ATOM	4980	CB	ILE	640	9.000	47.876	-3.653	1.00119.28	C
ATOM	4981	CG1	ILE	640	8.647	46.770	-4.661	1.00119.28	C
ATOM	4982	CG2	ILE	640	8.029	49.065	-3.708	1.00119.28	C
ATOM	4983	CD1	ILE	640	7.343	46.040	-4.345	1.00119.28	C
ATOM	4984	C	ILE	640	10.367	49.023	-5.268	1.00119.28	C
ATOM	4985	O	ILE	640	10.682	48.387	-6.275	1.00119.28	O
ATOM	4986	N	ILE	641	9.979	50.311	-5.343	1.00 76.46	N
ATOM	4987	CA	ILE	641	9.803	50.903	-6.642	1.00 76.46	C
ATOM	4988	CB	ILE	641	9.329	52.326	-6.611	1.00 76.46	C
ATOM	4989	CG1	ILE	641	8.957	52.752	-8.039	1.00 76.46	C
ATOM	4990	CG2	ILE	641	10.400	53.206	-5.941	1.00 76.46	C
ATOM	4991	CD1	ILE	641	8.107	54.011	-8.099	1.00 76.46	C
ATOM	4992	C	ILE	641	11.102	50.856	-7.374	1.00 76.46	C
ATOM	4993	O	ILE	641	11.144	50.578	-8.573	1.00 76.46	O
ATOM	4994	N	PHE	642	12.195	51.143	-6.650	1.00140.74	N
ATOM	4995	CA	PHE	642	13.526	51.131	-7.185	1.00140.74	C
ATOM	4996	CB	PHE	642	14.511	51.582	-6.092	1.00140.74	C
ATOM	4997	CG	PHE	642	15.908	51.369	-6.544	1.00140.74	C
ATOM	4998	CD1	PHE	642	16.518	50.149	-6.357	1.00140.74	C
ATOM	4999	CD2	PHE	642	16.612	52.389	-7.136	1.00140.74	C
ATOM	5000	CE1	PHE	642	17.810	49.938	-6.769	1.00140.74	C
ATOM	5001	CE2	PHE	642	17.907	52.184	-7.549	1.00140.74	C
ATOM	5002	CZ	PHE	642	18.504	50.961	-7.366	1.00140.74	C
ATOM	5003	C	PHE	642	13.884	49.750	-7.609	1.00140.74	C
ATOM	5004	O	PHE	642	14.285	49.521	-8.751	1.00140.74	O
ATOM	5005	N	SER	643	13.688	48.783	-6.697	1.00 49.48	N
ATOM	5006	CA	SER	643	14.083	47.437	-6.968	1.00 49.48	C
ATOM	5007	CB	SER	643	13.699	46.477	-5.828	1.00 49.48	C
ATOM	5008	OG	SER	643	12.288	46.459	-5.662	1.00 49.48	O
ATOM	5009	C	SER	643	13.353	47.011	-8.194	1.00 49.48	C
ATOM	5010	O	SER	643	13.866	46.220	-8.983	1.00 49.48	O
ATOM	5011	N	LYS	644	12.126	47.526	-8.389	1.00101.22	N
ATOM	5012	CA	LYS	644	11.416	47.120	-9.562	1.00101.22	C
ATOM	5013	CB	LYS	644	9.928	47.503	-9.587	1.00101.22	C
ATOM	5014	CG	LYS	644	9.225	46.936	-10.825	1.00101.22	C
ATOM	5015	CD	LYS	644	7.713	46.764	-10.666	1.00101.22	C
ATOM	5016	CE	LYS	644	6.930	48.072	-10.586	1.00101.22	C
ATOM	5017	NZ	LYS	644	5.500	47.780	-10.337	1.00101.22	N
ATOM	5018	C	LYS	644	12.061	47.657	-10.799	1.00101.22	C
ATOM	5019	O	LYS	644	12.239	46.909	-11.756	1.00101.22	O
ATOM	5020	N	ILE	645	12.478	48.940	-10.813	1.00126.04	N
ATOM	5021	CA	ILE	645	12.977	49.498	-12.039	1.00126.04	C
ATOM	5022	CB	ILE	645	13.380	50.953	-11.912	1.00126.04	C
ATOM	5023	CG1	ILE	645	14.533	51.181	-10.924	1.00126.04	C
ATOM	5024	CG2	ILE	645	12.138	51.742	-11.502	1.00126.04	C
ATOM	5025	CD1	ILE	645	15.105	52.597	-10.984	1.00126.04	C

ATOM	5026	C	ILE	645	14.163	48.723	-12.494	1.00126.04	C
ATOM	5027	O	ILE	645	14.188	48.222	-13.617	1.00126.04	O
ATOM	5028	N	ILE	646	15.135	48.522	-11.594	1.00187.19	N
ATOM	5029	CA	ILE	646	16.344	47.869	-11.965	1.00187.19	C
ATOM	5030	CB	ILE	646	17.258	47.681	-10.789	1.00187.19	C
ATOM	5031	CG1	ILE	646	17.567	49.031	-10.122	1.00187.19	C
ATOM	5032	CG2	ILE	646	18.508	46.920	-11.265	1.00187.19	C
ATOM	5033	CD1	ILE	646	18.266	50.035	-11.037	1.00187.19	C
ATOM	5034	C	ILE	646	15.946	46.518	-12.427	1.00187.19	C
ATOM	5035	O	ILE	646	16.317	46.119	-13.524	1.00187.19	O
ATOM	5036	N	GLY	647	15.089	45.823	-11.661	1.00 57.52	N
ATOM	5037	CA	GLY	647	14.769	44.477	-12.034	1.00 57.52	C
ATOM	5038	C	GLY	647	14.145	44.449	-13.396	1.00 57.52	C
ATOM	5039	O	GLY	647	14.587	43.736	-14.293	1.00 57.52	O
ATOM	5040	N	VAL	648	13.144	45.306	-13.599	1.00126.78	N
ATOM	5041	CA	VAL	648	12.355	45.375	-14.792	1.00126.78	C
ATOM	5042	CB	VAL	648	11.252	46.393	-14.632	1.00126.78	C
ATOM	5043	CG1	VAL	648	10.497	46.596	-15.947	1.00126.78	C
ATOM	5044	CG2	VAL	648	10.335	45.914	-13.497	1.00126.78	C
ATOM	5045	C	VAL	648	13.235	45.767	-15.946	1.00126.78	C
ATOM	5046	O	VAL	648	12.810	45.716	-17.097	1.00126.78	O
ATOM	5047	N	PHE	649	14.383	46.407	-15.672	1.00170.12	N
ATOM	5048	CA	PHE	649	15.308	46.732	-16.724	1.00170.12	C
ATOM	5049	CB	PHE	649	15.999	48.099	-16.538	1.00170.12	C
ATOM	5050	CG	PHE	649	16.608	48.485	-17.853	1.00170.12	C
ATOM	5051	CD1	PHE	649	15.845	49.162	-18.777	1.00170.12	C
ATOM	5052	CD2	PHE	649	17.912	48.183	-18.178	1.00170.12	C
ATOM	5053	CE1	PHE	649	16.364	49.530	-19.997	1.00170.12	C
ATOM	5054	CE2	PHE	649	18.439	48.542	-19.398	1.00170.12	C
ATOM	5055	CZ	PHE	649	17.666	49.220	-20.312	1.00170.12	C
ATOM	5056	C	PHE	649	16.389	45.708	-16.910	1.00170.12	C
ATOM	5057	O	PHE	649	17.000	45.625	-17.973	1.00170.12	O
ATOM	5058	N	THR	650	16.746	45.010	-15.818	1.00143.83	N
ATOM	5059	CA	THR	650	17.825	44.065	-15.745	1.00143.83	C
ATOM	5060	CB	THR	650	18.117	43.622	-14.344	1.00143.83	C
ATOM	5061	OG1	THR	650	18.482	44.735	-13.547	1.00143.83	O
ATOM	5062	CG2	THR	650	19.263	42.603	-14.378	1.00143.83	C
ATOM	5063	C	THR	650	17.484	42.839	-16.519	1.00143.83	C
ATOM	5064	O	THR	650	18.374	42.194	-17.075	1.00143.83	O
ATOM	5065	N	ARG	651	16.200	42.426	-16.482	1.00184.60	N
ATOM	5066	CA	ARG	651	15.800	41.317	-17.299	1.00184.60	C
ATOM	5067	CB	ARG	651	15.943	39.944	-16.612	1.00184.60	C
ATOM	5068	CG	ARG	651	15.059	39.759	-15.376	1.00184.60	C
ATOM	5069	CD	ARG	651	15.266	40.814	-14.290	1.00184.60	C
ATOM	5070	NE	ARG	651	16.559	40.513	-13.615	1.00184.60	N
ATOM	5071	CZ	ARG	651	16.594	39.607	-12.594	1.00184.60	C
ATOM	5072	NH1	ARG	651	15.452	38.963	-12.212	1.00184.60	N
ATOM	5073	NH2	ARG	651	17.774	39.332	-11.966	1.00184.60	N
ATOM	5074	C	ARG	651	14.349	41.508	-17.628	1.00184.60	C
ATOM	5075	O	ARG	651	13.534	41.592	-16.713	1.00184.60	O
ATOM	5076	N	ILE	652	14.004	41.612	-18.938	1.00201.23	N
ATOM	5077	CA	ILE	652	12.638	41.804	-19.388	1.00201.23	C
ATOM	5078	CB	ILE	652	11.974	43.132	-19.069	1.00201.23	C
ATOM	5079	CG1	ILE	652	12.784	44.286	-19.683	1.00201.23	C
ATOM	5080	CG2	ILE	652	11.612	43.289	-17.586	1.00201.23	C
ATOM	5081	CD1	ILE	652	14.200	44.423	-19.124	1.00201.23	C
ATOM	5082	C	ILE	652	12.591	41.859	-20.890	1.00201.23	C
ATOM	5083	O	ILE	652	13.601	41.739	-21.581	1.00201.23	O
ATOM	5084	N	ASP	653	11.362	42.083	-21.421	1.00108.10	N
ATOM	5085	CA	ASP	653	11.139	42.232	-22.835	1.00108.10	C
ATOM	5086	CB	ASP	653	9.674	42.050	-23.280	1.00108.10	C
ATOM	5087	CG	ASP	653	8.814	43.135	-22.653	1.00108.10	C
ATOM	5088	OD1	ASP	653	9.292	43.790	-21.689	1.00108.10	O
ATOM	5089	OD2	ASP	653	7.663	43.323	-23.131	1.00108.10	O
ATOM	5090	C	ASP	653	11.631	43.574	-23.294	1.00108.10	C
ATOM	5091	O	ASP	653	11.525	44.583	-22.596	1.00108.10	O
ATOM	5092	N	ASP	654	12.178	43.608	-24.523	1.00 90.92	N
ATOM	5093	CA	ASP	654	12.807	44.786	-25.040	1.00 90.92	C
ATOM	5094	CB	ASP	654	13.524	44.508	-26.378	1.00 90.92	C
ATOM	5095	CG	ASP	654	14.490	45.644	-26.667	1.00 90.92	C
ATOM	5096	OD1	ASP	654	14.038	46.820	-26.682	1.00 90.92	O
ATOM	5097	OD2	ASP	654	15.695	45.347	-26.879	1.00 90.92	O
ATOM	5098	C	ASP	654	11.831	45.909	-25.210	1.00 90.92	C
ATOM	5099	O	ASP	654	12.117	47.024	-24.776	1.00 90.92	O

ATOM	5100	N	PRO	655	10.681	45.694	-25.792	1.00161.68	N
ATOM	5101	CA	PRO	655	9.794	46.813	-25.958	1.00161.68	C
ATOM	5102	CD	PRO	655	10.556	44.745	-26.888	1.00161.68	C
ATOM	5103	CB	PRO	655	8.808	46.417	-27.053	1.00161.68	C
ATOM	5104	CG	PRO	655	9.591	45.395	-27.890	1.00161.68	C
ATOM	5105	C	PRO	655	9.126	47.157	-24.673	1.00161.68	C
ATOM	5106	O	PRO	655	9.011	46.296	-23.804	1.00161.68	O
ATOM	5107	N	GLU	656	8.677	48.415	-24.544	1.00110.18	N
ATOM	5108	CA	GLU	656	7.950	48.870	-23.396	1.00110.18	C
ATOM	5109	CB	GLU	656	6.856	47.866	-22.997	1.00110.18	C
ATOM	5110	CG	GLU	656	5.864	47.571	-24.126	1.00110.18	C
ATOM	5111	CD	GLU	656	4.996	48.799	-24.345	1.00110.18	C
ATOM	5112	OE1	GLU	656	4.155	49.095	-23.457	1.00110.18	O
ATOM	5113	OE2	GLU	656	5.162	49.458	-25.407	1.00110.18	O
ATOM	5114	C	GLU	656	8.877	49.014	-22.226	1.00110.18	C
ATOM	5115	O	GLU	656	8.444	49.394	-21.138	1.00110.18	O
ATOM	5116	N	THR	657	10.188	48.786	-22.429	1.00 61.52	N
ATOM	5117	CA	THR	657	11.135	48.972	-21.368	1.00 61.52	C
ATOM	5118	CB	THR	657	12.533	48.577	-21.749	1.00 61.52	C
ATOM	5119	OG1	THR	657	12.952	49.309	-22.892	1.00 61.52	O
ATOM	5120	CG2	THR	657	12.577	47.064	-22.029	1.00 61.52	C
ATOM	5121	C	THR	657	11.132	50.433	-21.080	1.00 61.52	C
ATOM	5122	O	THR	657	11.372	50.866	-19.954	1.00 61.52	O
ATOM	5123	N	LYS	658	10.899	51.236	-22.135	1.00 42.99	N
ATOM	5124	CA	LYS	658	10.843	52.662	-22.002	1.00 42.99	C
ATOM	5125	CB	LYS	658	10.586	53.386	-23.335	1.00 42.99	C
ATOM	5126	CG	LYS	658	10.522	54.908	-23.191	1.00 42.99	C
ATOM	5127	CD	LYS	658	10.494	55.669	-24.520	1.00 42.99	C
ATOM	5128	CE	LYS	658	10.248	57.172	-24.353	1.00 42.99	C
ATOM	5129	NZ	LYS	658	10.062	57.807	-25.676	1.00 42.99	N
ATOM	5130	C	LYS	658	9.696	53.005	-21.116	1.00 42.99	C
ATOM	5131	O	LYS	658	9.827	53.834	-20.219	1.00 42.99	O
ATOM	5132	N	ARG	659	8.530	52.379	-21.362	1.00151.91	N
ATOM	5133	CA	ARG	659	7.340	52.645	-20.603	1.00151.91	C
ATOM	5134	CB	ARG	659	6.129	51.866	-21.139	1.00151.91	C
ATOM	5135	CG	ARG	659	5.798	52.178	-22.596	1.00151.91	C
ATOM	5136	CD	ARG	659	4.619	53.134	-22.776	1.00151.91	C
ATOM	5137	NE	ARG	659	5.058	54.498	-22.366	1.00151.91	N
ATOM	5138	CZ	ARG	659	4.472	55.109	-21.295	1.00151.91	C
ATOM	5139	NH1	ARG	659	3.525	54.450	-20.566	1.00151.91	N
ATOM	5140	NH2	ARG	659	4.820	56.387	-20.965	1.00151.91	N
ATOM	5141	C	ARG	659	7.556	52.172	-19.209	1.00151.91	C
ATOM	5142	O	ARG	659	7.206	52.851	-18.248	1.00151.91	O
ATOM	5143	N	GLN	660	8.144	50.973	-19.066	1.00 93.07	N
ATOM	5144	CA	GLN	660	8.330	50.452	-17.749	1.00 93.07	C
ATOM	5145	CB	GLN	660	8.908	49.031	-17.761	1.00 93.07	C
ATOM	5146	CG	GLN	660	7.900	48.038	-18.339	1.00 93.07	C
ATOM	5147	CD	GLN	660	8.534	46.662	-18.358	1.00 93.07	C
ATOM	5148	OE1	GLN	660	7.937	45.680	-17.918	1.00 93.07	O
ATOM	5149	NE2	GLN	660	9.778	46.585	-18.900	1.00 93.07	N
ATOM	5150	C	GLN	660	9.265	51.362	-17.038	1.00 93.07	C
ATOM	5151	O	GLN	660	9.026	51.733	-15.889	1.00 93.07	O
ATOM	5152	N	ASN	661	10.353	51.766	-17.719	1.00124.28	N
ATOM	5153	CA	ASN	661	11.264	52.651	-17.067	1.00124.28	C
ATOM	5154	CB	ASN	661	12.462	53.049	-17.947	1.00124.28	C
ATOM	5155	CG	ASN	661	13.508	51.953	-17.850	1.00124.28	C
ATOM	5156	OD1	ASN	661	14.002	51.657	-16.763	1.00124.28	O
ATOM	5157	ND2	ASN	661	13.863	51.334	-19.008	1.00124.28	N
ATOM	5158	C	ASN	661	10.544	53.906	-16.727	1.00124.28	C
ATOM	5159	O	ASN	661	10.257	54.143	-15.558	1.00124.28	O
ATOM	5160	N	SER	662	10.081	54.639	-17.758	1.00101.64	N
ATOM	5161	CA	SER	662	9.517	55.950	-17.598	1.00101.64	C
ATOM	5162	CB	SER	662	8.908	56.513	-18.897	1.00101.64	C
ATOM	5163	OG	SER	662	7.806	55.724	-19.317	1.00101.64	O
ATOM	5164	C	SER	662	8.440	55.887	-16.571	1.00101.64	C
ATOM	5165	O	SER	662	8.304	56.796	-15.755	1.00101.64	O
ATOM	5166	N	ASN	663	7.662	54.794	-16.562	1.00 82.32	N
ATOM	5167	CA	ASN	663	6.633	54.709	-15.576	1.00 82.32	C
ATOM	5168	CB	ASN	663	5.762	53.455	-15.752	1.00 82.32	C
ATOM	5169	CG	ASN	663	4.737	53.433	-14.626	1.00 82.32	C
ATOM	5170	OD1	ASN	663	5.062	53.148	-13.474	1.00 82.32	O
ATOM	5171	ND2	ASN	663	3.458	53.739	-14.968	1.00 82.32	N
ATOM	5172	C	ASN	663	7.227	54.653	-14.206	1.00 82.32	C
ATOM	5173	O	ASN	663	7.031	55.558	-13.399	1.00 82.32	O

ATOM	5174	N	LEU	664	8.056	53.631	-13.933	1.00	78.93	N
ATOM	5175	CA	LEU	664	8.546	53.441	-12.599	1.00	78.93	C
ATOM	5176	CB	LEU	664	9.411	52.186	-12.468	1.00	78.93	C
ATOM	5177	CG	LEU	664	8.628	50.875	-12.666	1.00	78.93	C
ATOM	5178	CD1	LEU	664	9.549	49.653	-12.517	1.00	78.93	C
ATOM	5179	CD2	LEU	664	7.402	50.810	-11.738	1.00	78.93	C
ATOM	5180	C	LEU	664	9.331	54.650	-12.217	1.00	78.93	C
ATOM	5181	O	LEU	664	9.332	55.060	-11.058	1.00	78.93	O
ATOM	5182	N	PHE	665	10.024	55.259	-13.191	1.00	129.27	N
ATOM	5183	CA	PHE	665	10.779	56.441	-12.923	1.00	129.27	C
ATOM	5184	CB	PHE	665	11.451	56.917	-14.227	1.00	129.27	C
ATOM	5185	CG	PHE	665	11.233	58.369	-14.446	1.00	129.27	C
ATOM	5186	CD1	PHE	665	12.001	59.314	-13.816	1.00	129.27	C
ATOM	5187	CD2	PHE	665	10.234	58.772	-15.304	1.00	129.27	C
ATOM	5188	CE1	PHE	665	11.762	60.644	-14.051	1.00	129.27	C
ATOM	5189	CE2	PHE	665	9.993	60.102	-15.538	1.00	129.27	C
ATOM	5190	CZ	PHE	665	10.764	61.045	-14.906	1.00	129.27	C
ATOM	5191	C	PHE	665	9.879	57.488	-12.329	1.00	129.27	C
ATOM	5192	O	PHE	665	10.065	57.879	-11.178	1.00	129.27	O
ATOM	5193	N	SER	666	8.814	57.898	-13.037	1.00	44.68	N
ATOM	5194	CA	SER	666	7.976	58.937	-12.511	1.00	44.68	C
ATOM	5195	CB	SER	666	6.827	59.347	-13.449	1.00	44.68	C
ATOM	5196	OG	SER	666	6.050	60.367	-12.838	1.00	44.68	O
ATOM	5197	C	SER	666	7.347	58.446	-11.254	1.00	44.68	C
ATOM	5198	O	SER	666	7.170	59.200	-10.302	1.00	44.68	O
ATOM	5199	N	LEU	667	7.036	57.142	-11.206	1.00	115.82	N
ATOM	5200	CA	LEU	667	6.336	56.592	-10.087	1.00	115.82	C
ATOM	5201	CB	LEU	667	6.164	55.070	-10.204	1.00	115.82	C
ATOM	5202	CG	LEU	667	5.076	54.483	-9.285	1.00	115.82	C
ATOM	5203	CD1	LEU	667	5.229	54.925	-7.820	1.00	115.82	C
ATOM	5204	CD2	LEU	667	3.681	54.746	-9.866	1.00	115.82	C
ATOM	5205	C	LEU	667	7.194	56.839	-8.894	1.00	115.82	C
ATOM	5206	O	LEU	667	6.717	57.231	-7.831	1.00	115.82	O
ATOM	5207	N	LEU	668	8.510	56.638	-9.056	1.00	110.99	N
ATOM	5208	CA	LEU	668	9.391	56.782	-7.944	1.00	110.99	C
ATOM	5209	CB	LEU	668	10.834	56.444	-8.348	1.00	110.99	C
ATOM	5210	CG	LEU	668	11.777	56.140	-7.172	1.00	110.99	C
ATOM	5211	CD1	LEU	668	13.190	55.841	-7.680	1.00	110.99	C
ATOM	5212	CD2	LEU	668	11.741	57.221	-6.084	1.00	110.99	C
ATOM	5213	C	LEU	668	9.303	58.216	-7.508	1.00	110.99	C
ATOM	5214	O	LEU	668	9.239	58.510	-6.314	1.00	110.99	O
ATOM	5215	N	PHE	669	9.301	59.160	-8.472	1.00	101.17	N
ATOM	5216	CA	PHE	669	9.241	60.553	-8.125	1.00	101.17	C
ATOM	5217	CB	PHE	669	9.420	61.475	-9.340	1.00	101.17	C
ATOM	5218	CG	PHE	669	9.004	62.844	-8.922	1.00	101.17	C
ATOM	5219	CD1	PHE	669	9.835	63.638	-8.167	1.00	101.17	C
ATOM	5220	CD2	PHE	669	7.760	63.326	-9.263	1.00	101.17	C
ATOM	5221	CE1	PHE	669	9.440	64.898	-7.779	1.00	101.17	C
ATOM	5222	CE2	PHE	669	7.360	64.585	-8.879	1.00	101.17	C
ATOM	5223	CZ	PHE	669	8.203	65.374	-8.136	1.00	101.17	C
ATOM	5224	C	PHE	669	7.947	60.930	-7.485	1.00	101.17	C
ATOM	5225	O	PHE	669	7.906	61.337	-6.331	1.00	101.17	O
ATOM	5226	N	LEU	670	6.836	60.702	-8.190	1.00	139.97	N
ATOM	5227	CA	LEU	670	5.551	61.163	-7.772	1.00	139.97	C
ATOM	5228	CB	LEU	670	4.488	60.619	-8.743	1.00	139.97	C
ATOM	5229	CG	LEU	670	3.031	61.010	-8.455	1.00	139.97	C
ATOM	5230	CD1	LEU	670	2.464	60.319	-7.204	1.00	139.97	C
ATOM	5231	CD2	LEU	670	2.881	62.534	-8.434	1.00	139.97	C
ATOM	5232	C	LEU	670	5.280	60.601	-6.427	1.00	139.97	C
ATOM	5233	O	LEU	670	4.878	61.317	-5.509	1.00	139.97	O
ATOM	5234	N	ALA	671	5.509	59.288	-6.267	1.00	77.93	N
ATOM	5235	CA	ALA	671	5.164	58.752	-4.992	1.00	77.93	C
ATOM	5236	CB	ALA	671	5.333	57.227	-4.932	1.00	77.93	C
ATOM	5237	C	ALA	671	6.025	59.336	-3.921	1.00	77.93	C
ATOM	5238	O	ALA	671	5.547	60.062	-3.055	1.00	77.93	O
ATOM	5239	N	LEU	672	7.349	59.141	-4.018	1.00	148.19	N
ATOM	5240	CA	LEU	672	8.178	59.541	-2.924	1.00	148.19	C
ATOM	5241	CB	LEU	672	9.625	59.057	-3.157	1.00	148.19	C
ATOM	5242	CG	LEU	672	10.668	59.408	-2.081	1.00	148.19	C
ATOM	5243	CD1	LEU	672	11.954	58.605	-2.295	1.00	148.19	C
ATOM	5244	CD2	LEU	672	10.986	60.907	-2.061	1.00	148.19	C
ATOM	5245	C	LEU	672	8.132	61.022	-2.753	1.00	148.19	C
ATOM	5246	O	LEU	672	7.702	61.505	-1.708	1.00	148.19	O
ATOM	5247	N	GLY	673	8.457	61.784	-3.816	1.00	55.03	N

ATOM	5248	CA	GLY	673	8.596	63.199	-3.672	1.00	55.03	C
ATOM	5249	C	GLY	673	7.329	63.799	-3.163	1.00	55.03	C
ATOM	5250	O	GLY	673	7.353	64.565	-2.202	1.00	55.03	O
ATOM	5251	N	ILE	674	6.183	63.473	-3.784	1.00	139.30	N
ATOM	5252	CA	ILE	674	4.984	64.138	-3.366	1.00	139.30	C
ATOM	5253	CB	ILE	674	3.852	63.908	-4.321	1.00	139.30	C
ATOM	5254	CG1	ILE	674	4.263	64.378	-5.729	1.00	139.30	C
ATOM	5255	CG2	ILE	674	2.596	64.598	-3.762	1.00	139.30	C
ATOM	5256	CD1	ILE	674	4.790	65.811	-5.770	1.00	139.30	C
ATOM	5257	C	ILE	674	4.529	63.702	-2.013	1.00	139.30	C
ATOM	5258	O	ILE	674	4.496	64.515	-1.092	1.00	139.30	O
ATOM	5259	N	ILE	675	4.309	62.385	-1.821	1.00	113.87	N
ATOM	5260	CA	ILE	675	3.639	61.931	-0.634	1.00	113.87	C
ATOM	5261	CB	ILE	675	3.376	60.453	-0.607	1.00	113.87	C
ATOM	5262	CG1	ILE	675	2.318	60.147	0.462	1.00	113.87	C
ATOM	5263	CG2	ILE	675	4.703	59.703	-0.426	1.00	113.87	C
ATOM	5264	CD1	ILE	675	1.708	58.751	0.333	1.00	113.87	C
ATOM	5265	C	ILE	675	4.415	62.353	0.571	1.00	113.87	C
ATOM	5266	O	ILE	675	3.831	62.774	1.569	1.00	113.87	O
ATOM	5267	N	SER	676	5.753	62.269	0.503	1.00	77.81	N
ATOM	5268	CA	SER	676	6.559	62.647	1.624	1.00	77.81	C
ATOM	5269	CB	SER	676	8.037	62.292	1.440	1.00	77.81	C
ATOM	5270	OG	SER	676	8.763	62.694	2.588	1.00	77.81	O
ATOM	5271	C	SER	676	6.466	64.115	1.880	1.00	77.81	C
ATOM	5272	O	SER	676	6.256	64.507	3.027	1.00	77.81	O
ATOM	5273	N	PHE	677	6.555	64.948	0.814	1.00	136.56	N
ATOM	5274	CA	PHE	677	6.534	66.378	0.963	1.00	136.56	C
ATOM	5275	CB	PHE	677	6.450	67.140	-0.371	1.00	136.56	C
ATOM	5276	CG	PHE	677	6.549	68.595	-0.052	1.00	136.56	C
ATOM	5277	CD1	PHE	677	5.463	69.298	0.417	1.00	136.56	C
ATOM	5278	CD2	PHE	677	7.735	69.265	-0.233	1.00	136.56	C
ATOM	5279	CE1	PHE	677	5.561	70.639	0.709	1.00	136.56	C
ATOM	5280	CE2	PHE	677	7.841	70.605	0.057	1.00	136.56	C
ATOM	5281	CZ	PHE	677	6.753	71.298	0.530	1.00	136.56	C
ATOM	5282	C	PHE	677	5.273	66.650	1.699	1.00	136.56	C
ATOM	5283	O	PHE	677	5.232	67.479	2.606	1.00	136.56	O
ATOM	5284	N	ILE	678	4.218	65.910	1.327	1.00	84.19	N
ATOM	5285	CA	ILE	678	2.963	66.033	1.998	1.00	84.19	C
ATOM	5286	CB	ILE	678	1.940	65.075	1.467	1.00	84.19	C
ATOM	5287	CG1	ILE	678	1.619	65.362	-0.007	1.00	84.19	C
ATOM	5288	CG2	ILE	678	0.725	65.110	2.409	1.00	84.19	C
ATOM	5289	CD1	ILE	678	0.900	64.205	-0.697	1.00	84.19	C
ATOM	5290	C	ILE	678	3.160	65.618	3.420	1.00	84.19	C
ATOM	5291	O	ILE	678	2.963	66.420	4.327	1.00	84.19	O
ATOM	5292	N	THR	679	3.707	64.401	3.623	1.00	104.71	N
ATOM	5293	CA	THR	679	3.811	63.773	4.912	1.00	104.71	C
ATOM	5294	CB	THR	679	4.729	62.596	4.860	1.00	104.71	C
ATOM	5295	OG1	THR	679	4.228	61.604	3.980	1.00	104.71	O
ATOM	5296	CG2	THR	679	4.889	62.040	6.270	1.00	104.71	C
ATOM	5297	C	THR	679	4.434	64.722	5.883	1.00	104.71	C
ATOM	5298	O	THR	679	3.926	64.905	6.989	1.00	104.71	O
ATOM	5299	N	PHE	680	5.561	65.345	5.505	1.00	164.30	N
ATOM	5300	CA	PHE	680	6.200	66.250	6.414	1.00	164.30	C
ATOM	5301	CB	PHE	680	7.558	66.758	5.912	1.00	164.30	C
ATOM	5302	CG	PHE	680	8.489	65.605	6.033	1.00	164.30	C
ATOM	5303	CD1	PHE	680	9.162	65.386	7.211	1.00	164.30	C
ATOM	5304	CD2	PHE	680	8.674	64.731	4.988	1.00	164.30	C
ATOM	5305	CE1	PHE	680	10.019	64.322	7.342	1.00	164.30	C
ATOM	5306	CE2	PHE	680	9.533	63.664	5.112	1.00	164.30	C
ATOM	5307	CZ	PHE	680	10.210	63.460	6.290	1.00	164.30	C
ATOM	5308	C	PHE	680	5.327	67.423	6.656	1.00	164.30	C
ATOM	5309	O	PHE	680	4.979	67.679	7.805	1.00	164.30	O
ATOM	5310	N	PHE	681	4.858	68.077	5.573	1.00	79.70	N
ATOM	5311	CA	PHE	681	4.147	69.317	5.686	1.00	79.70	C
ATOM	5312	CB	PHE	681	3.566	69.807	4.348	1.00	79.70	C
ATOM	5313	CG	PHE	681	2.905	71.117	4.611	1.00	79.70	C
ATOM	5314	CD1	PHE	681	3.660	72.263	4.715	1.00	79.70	C
ATOM	5315	CD2	PHE	681	1.538	71.208	4.745	1.00	79.70	C
ATOM	5316	CE1	PHE	681	3.066	73.479	4.956	1.00	79.70	C
ATOM	5317	CE2	PHE	681	0.938	72.422	4.988	1.00	79.70	C
ATOM	5318	CZ	PHE	681	1.701	73.559	5.093	1.00	79.70	C
ATOM	5319	C	PHE	681	3.008	69.141	6.639	1.00	79.70	C
ATOM	5320	O	PHE	681	2.865	69.944	7.558	1.00	79.70	O
ATOM	5321	N	LEU	682	2.184	68.085	6.476	1.00	183.65	N

ATOM	5322	CA	LEU	682	1.077	67.949	7.381	1.00183.65	C
ATOM	5323	CB	LEU	682	-0.035	66.985	6.893	1.00183.65	C
ATOM	5324	CG	LEU	682	-0.083	65.548	7.453	1.00183.65	C
ATOM	5325	CD1	LEU	682	1.204	64.768	7.193	1.00183.65	C
ATOM	5326	CD2	LEU	682	-0.554	65.515	8.914	1.00183.65	C
ATOM	5327	C	LEU	682	1.530	67.596	8.776	1.00183.65	C
ATOM	5328	O	LEU	682	1.112	68.246	9.730	1.00183.65	O
ATOM	5329	N	GLN	683	2.442	66.609	8.938	1.00 89.60	N
ATOM	5330	CA	GLN	683	2.844	66.154	10.250	1.00 89.60	C
ATOM	5331	CB	GLN	683	3.863	64.999	10.169	1.00 89.60	C
ATOM	5332	CG	GLN	683	5.203	65.374	9.523	1.00 89.60	C
ATOM	5333	CD	GLN	683	5.964	64.082	9.249	1.00 89.60	C
ATOM	5334	OE1	GLN	683	7.193	64.044	9.282	1.00 89.60	O
ATOM	5335	NE2	GLN	683	5.209	62.991	8.955	1.00 89.60	N
ATOM	5336	C	GLN	683	3.482	67.281	10.991	1.00 89.60	C
ATOM	5337	O	GLN	683	3.155	67.540	12.146	1.00 89.60	O
ATOM	5338	N	GLY	684	4.383	68.010	10.318	1.00 42.06	N
ATOM	5339	CA	GLY	684	5.086	69.097	10.919	1.00 42.06	C
ATOM	5340	C	GLY	684	4.062	70.107	11.313	1.00 42.06	C
ATOM	5341	O	GLY	684	4.232	70.822	12.298	1.00 42.06	O
ATOM	5342	N	PHE	685	2.994	70.233	10.505	1.00123.65	N
ATOM	5343	CA	PHE	685	1.956	71.179	10.781	1.00123.65	C
ATOM	5344	CB	PHE	685	0.879	71.152	9.681	1.00123.65	C
ATOM	5345	CG	PHE	685	-0.098	72.258	9.892	1.00123.65	C
ATOM	5346	CD1	PHE	685	-1.135	72.130	10.786	1.00123.65	C
ATOM	5347	CD2	PHE	685	0.019	73.424	9.174	1.00123.65	C
ATOM	5348	CE1	PHE	685	-2.034	73.153	10.968	1.00123.65	C
ATOM	5349	CE2	PHE	685	-0.878	74.451	9.350	1.00123.65	C
ATOM	5350	CZ	PHE	685	-1.908	74.318	10.250	1.00123.65	C
ATOM	5351	C	PHE	685	1.288	70.842	12.086	1.00123.65	C
ATOM	5352	O	PHE	685	1.236	71.678	12.985	1.00123.65	O
ATOM	5353	N	THR	686	0.766	69.603	12.229	1.00 81.97	N
ATOM	5354	CA	THR	686	0.039	69.224	13.414	1.00 81.97	C
ATOM	5355	CB	THR	686	-0.651	67.895	13.286	1.00 81.97	C
ATOM	5356	OG1	THR	686	0.304	66.861	13.105	1.00 81.97	O
ATOM	5357	CG2	THR	686	-1.614	67.941	12.087	1.00 81.97	C
ATOM	5358	C	THR	686	0.913	69.127	14.637	1.00 81.97	C
ATOM	5359	O	THR	686	0.661	69.816	15.623	1.00 81.97	O
ATOM	5360	N	PHE	687	1.986	68.299	14.602	1.00 96.00	N
ATOM	5361	CA	PHE	687	2.775	68.069	15.788	1.00 96.00	C
ATOM	5362	CB	PHE	687	3.777	66.887	15.733	1.00 96.00	C
ATOM	5363	CG	PHE	687	5.007	67.154	14.924	1.00 96.00	C
ATOM	5364	CD1	PHE	687	6.013	67.947	15.431	1.00 96.00	C
ATOM	5365	CD2	PHE	687	5.191	66.571	13.691	1.00 96.00	C
ATOM	5366	CE1	PHE	687	7.158	68.191	14.709	1.00 96.00	C
ATOM	5367	CE2	PHE	687	6.336	66.810	12.963	1.00 96.00	C
ATOM	5368	CZ	PHE	687	7.321	67.623	13.468	1.00 96.00	C
ATOM	5369	C	PHE	687	3.509	69.313	16.164	1.00 96.00	C
ATOM	5370	O	PHE	687	3.681	69.603	17.346	1.00 96.00	O
ATOM	5371	N	GLY	688	3.993	70.075	15.169	1.00 38.74	N
ATOM	5372	CA	GLY	688	4.705	71.278	15.484	1.00 38.74	C
ATOM	5373	C	GLY	688	3.759	72.176	16.212	1.00 38.74	C
ATOM	5374	O	GLY	688	4.129	72.807	17.202	1.00 38.74	O
ATOM	5375	N	LYS	689	2.495	72.222	15.748	1.00135.68	N
ATOM	5376	CA	LYS	689	1.479	73.057	16.320	1.00135.68	C
ATOM	5377	CB	LYS	689	0.113	72.889	15.644	1.00135.68	C
ATOM	5378	CG	LYS	689	-0.941	73.858	16.176	1.00135.68	C
ATOM	5379	CD	LYS	689	-2.244	73.810	15.384	1.00135.68	C
ATOM	5380	CE	LYS	689	-2.827	72.398	15.297	1.00135.68	C
ATOM	5381	NZ	LYS	689	-2.972	71.820	16.652	1.00135.68	N
ATOM	5382	C	LYS	689	1.312	72.641	17.739	1.00135.68	C
ATOM	5383	O	LYS	689	0.990	73.463	18.593	1.00135.68	O
ATOM	5384	N	ALA	690	1.491	71.337	18.014	1.00 52.37	N
ATOM	5385	CA	ALA	690	1.392	70.839	19.354	1.00 52.37	C
ATOM	5386	CB	ALA	690	1.597	69.317	19.456	1.00 52.37	C
ATOM	5387	C	ALA	690	2.473	71.487	20.151	1.00 52.37	C
ATOM	5388	O	ALA	690	2.283	71.805	21.322	1.00 52.37	O
ATOM	5389	N	GLY	691	3.661	71.658	19.543	1.00 47.20	N
ATOM	5390	CA	GLY	691	4.755	72.289	20.223	1.00 47.20	C
ATOM	5391	C	GLY	691	4.423	73.721	20.473	1.00 47.20	C
ATOM	5392	O	GLY	691	4.725	74.265	21.534	1.00 47.20	O
ATOM	5393	N	GLU	692	3.815	74.392	19.480	1.00101.29	N
ATOM	5394	CA	GLU	692	3.534	75.776	19.677	1.00101.29	C
ATOM	5395	CB	GLU	692	2.820	76.374	18.461	1.00101.29	C

ATOM	5396	CG	GLU	692	3.663	76.299	17.188	1.00101.29	C
ATOM	5397	CD	GLU	692	2.731	76.568	16.020	1.00101.29	C
ATOM	5398	OE1	GLU	692	1.623	77.110	16.279	1.00101.29	O
ATOM	5399	OE2	GLU	692	3.103	76.235	14.865	1.00101.29	O
ATOM	5400	C	GLU	692	2.604	75.891	20.839	1.00101.29	C
ATOM	5401	O	GLU	692	3.005	76.354	21.901	1.00101.29	O
ATOM	5402	N	ILE	693	1.392	75.313	20.717	1.00 88.15	N
ATOM	5403	CA	ILE	693	0.374	75.501	21.709	1.00 88.15	C
ATOM	5404	CB	ILE	693	-0.900	74.768	21.405	1.00 88.15	C
ATOM	5405	CG1	ILE	693	-0.664	73.248	21.374	1.00 88.15	C
ATOM	5406	CG2	ILE	693	-1.478	75.350	20.105	1.00 88.15	C
ATOM	5407	CD1	ILE	693	-1.956	72.431	21.350	1.00 88.15	C
ATOM	5408	C	ILE	693	0.872	75.028	23.026	1.00 88.15	C
ATOM	5409	O	ILE	693	0.734	75.750	24.008	1.00 88.15	O
ATOM	5410	N	LEU	694	1.526	73.852	23.066	1.00177.89	N
ATOM	5411	CA	LEU	694	1.977	73.288	24.301	1.00177.89	C
ATOM	5412	CB	LEU	694	2.860	72.048	24.093	1.00177.89	C
ATOM	5413	CG	LEU	694	3.342	71.451	25.421	1.00177.89	C
ATOM	5414	CD1	LEU	694	2.152	70.996	26.256	1.00177.89	C
ATOM	5415	CD2	LEU	694	4.380	70.340	25.211	1.00177.89	C
ATOM	5416	C	LEU	694	2.821	74.303	24.998	1.00177.89	C
ATOM	5417	O	LEU	694	2.632	74.538	26.185	1.00177.89	O
ATOM	5418	N	THR	695	3.752	74.953	24.277	1.00 75.96	N
ATOM	5419	CA	THR	695	4.623	75.953	24.838	1.00 75.96	C
ATOM	5420	CB	THR	695	5.659	76.395	23.848	1.00 75.96	C
ATOM	5421	OG1	THR	695	6.452	75.288	23.444	1.00 75.96	O
ATOM	5422	CG2	THR	695	6.537	77.476	24.493	1.00 75.96	C
ATOM	5423	C	THR	695	3.852	77.178	25.265	1.00 75.96	C
ATOM	5424	O	THR	695	4.131	77.749	26.317	1.00 75.96	O
ATOM	5425	N	LYS	696	2.898	77.637	24.429	1.00227.23	N
ATOM	5426	CA	LYS	696	2.096	78.825	24.612	1.00227.23	C
ATOM	5427	CB	LYS	696	1.066	78.933	23.487	1.00227.23	C
ATOM	5428	CG	LYS	696	1.639	78.721	22.091	1.00227.23	C
ATOM	5429	CD	LYS	696	2.332	79.934	21.506	1.00227.23	C
ATOM	5430	CE	LYS	696	1.364	80.673	20.601	1.00227.23	C
ATOM	5431	NZ	LYS	696	0.892	79.759	19.534	1.00227.23	N
ATOM	5432	C	LYS	696	1.221	78.688	25.800	1.00227.23	C
ATOM	5433	O	LYS	696	1.343	79.421	26.778	1.00227.23	O
ATOM	5434	N	ARG	697	0.347	77.670	25.746	1.00185.67	N
ATOM	5435	CA	ARG	697	-0.621	77.435	26.764	1.00185.67	C
ATOM	5436	CB	ARG	697	-1.377	76.104	26.645	1.00185.67	C
ATOM	5437	CG	ARG	697	-2.427	75.998	25.548	1.00185.67	C
ATOM	5438	CD	ARG	697	-3.161	74.663	25.653	1.00185.67	C
ATOM	5439	NE	ARG	697	-4.050	74.508	24.474	1.00185.67	N
ATOM	5440	CZ	ARG	697	-4.169	73.268	23.920	1.00185.67	C
ATOM	5441	NH1	ARG	697	-3.436	72.232	24.430	1.00185.67	N
ATOM	5442	NH2	ARG	697	-5.008	73.065	22.865	1.00185.67	N
ATOM	5443	C	ARG	697	0.191	77.249	27.987	1.00185.67	C
ATOM	5444	O	ARG	697	-0.292	77.495	29.085	1.00185.67	O
ATOM	5445	N	LEU	698	1.410	76.701	27.821	1.00128.80	N
ATOM	5446	CA	LEU	698	2.263	76.448	28.940	1.00128.80	C
ATOM	5447	CB	LEU	698	3.400	75.463	28.626	1.00128.80	C
ATOM	5448	CG	LEU	698	4.165	74.943	29.852	1.00128.80	C
ATOM	5449	CD1	LEU	698	3.210	74.369	30.911	1.00128.80	C
ATOM	5450	CD2	LEU	698	5.192	73.887	29.417	1.00128.80	C
ATOM	5451	C	LEU	698	2.837	77.699	29.555	1.00128.80	C
ATOM	5452	O	LEU	698	2.694	77.882	30.759	1.00128.80	O
ATOM	5453	N	ARG	699	3.450	78.626	28.776	1.00114.94	N
ATOM	5454	CA	ARG	699	4.034	79.795	29.388	1.00114.94	C
ATOM	5455	CB	ARG	699	4.677	80.805	28.418	1.00114.94	C
ATOM	5456	CG	ARG	699	5.985	80.348	27.770	1.00114.94	C
ATOM	5457	CD	ARG	699	6.766	81.504	27.138	1.00114.94	C
ATOM	5458	NE	ARG	699	7.764	80.928	26.193	1.00114.94	N
ATOM	5459	CZ	ARG	699	8.767	81.712	25.702	1.00114.94	C
ATOM	5460	NH1	ARG	699	8.915	82.991	26.157	1.00114.94	N
ATOM	5461	NH2	ARG	699	9.618	81.222	24.754	1.00114.94	N
ATOM	5462	C	ARG	699	2.926	80.516	30.069	1.00114.94	C
ATOM	5463	O	ARG	699	3.103	81.064	31.154	1.00114.94	O
ATOM	5464	N	TYR	700	1.749	80.533	29.425	1.00155.97	N
ATOM	5465	CA	TYR	700	0.588	81.160	29.974	1.00155.97	C
ATOM	5466	CB	TYR	700	-0.603	81.100	29.003	1.00155.97	C
ATOM	5467	CG	TYR	700	-1.818	81.651	29.670	1.00155.97	C
ATOM	5468	CD1	TYR	700	-1.969	83.005	29.857	1.00155.97	C
ATOM	5469	CD2	TYR	700	-2.820	80.812	30.094	1.00155.97	C

ATOM	5470	CE1	TYR	700	-3.095	83.512	30.464	1.00155.97	C
ATOM	5471	CE2	TYR	700	-3.947	81.310	30.701	1.00155.97	C
ATOM	5472	CZ	TYR	700	-4.087	82.664	30.888	1.00155.97	C
ATOM	5473	OH	TYR	700	-5.246	83.172	31.511	1.00155.97	O
ATOM	5474	C	TYR	700	0.199	80.441	31.213	1.00155.97	C
ATOM	5475	O	TYR	700	0.066	81.052	32.268	1.00155.97	O
ATOM	5476	N	MET	701	0.097	79.104	31.139	1.00154.78	N
ATOM	5477	CA	MET	701	-0.409	78.365	32.250	1.00154.78	C
ATOM	5478	CB	MET	701	-0.482	76.857	31.960	1.00154.78	C
ATOM	5479	CG	MET	701	-1.501	76.127	32.836	1.00154.78	C
ATOM	5480	SD	MET	701	-1.915	74.449	32.266	1.00154.78	S
ATOM	5481	CE	MET	701	-2.521	75.015	30.655	1.00154.78	C
ATOM	5482	C	MET	701	0.497	78.610	33.412	1.00154.78	C
ATOM	5483	O	MET	701	0.027	78.927	34.500	1.00154.78	O
ATOM	5484	N	VAL	702	1.822	78.539	33.194	1.00142.11	N
ATOM	5485	CA	VAL	702	2.765	78.717	34.255	1.00142.11	C
ATOM	5486	CB	VAL	702	4.170	78.374	33.834	1.00142.11	C
ATOM	5487	CG1	VAL	702	4.717	79.461	32.898	1.00142.11	C
ATOM	5488	CG2	VAL	702	5.014	78.119	35.088	1.00142.11	C
ATOM	5489	C	VAL	702	2.715	80.126	34.784	1.00142.11	C
ATOM	5490	O	VAL	702	2.657	80.320	35.997	1.00142.11	O
ATOM	5491	N	PHE	703	2.693	81.153	33.905	1.00165.96	N
ATOM	5492	CA	PHE	703	2.749	82.511	34.390	1.00165.96	C
ATOM	5493	CB	PHE	703	2.708	83.596	33.294	1.00165.96	C
ATOM	5494	CG	PHE	703	3.141	84.894	33.913	1.00165.96	C
ATOM	5495	CD1	PHE	703	2.370	85.562	34.843	1.00165.96	C
ATOM	5496	CD2	PHE	703	4.361	85.436	33.581	1.00165.96	C
ATOM	5497	CE1	PHE	703	2.786	86.742	35.411	1.00165.96	C
ATOM	5498	CE2	PHE	703	4.783	86.620	34.140	1.00165.96	C
ATOM	5499	CZ	PHE	703	3.998	87.278	35.057	1.00165.96	C
ATOM	5500	C	PHE	703	1.546	82.776	35.224	1.00165.96	C
ATOM	5501	O	PHE	703	1.648	83.288	36.337	1.00165.96	O
ATOM	5502	N	ARG	704	0.367	82.424	34.697	1.00214.76	N
ATOM	5503	CA	ARG	704	-0.852	82.685	35.379	1.00214.76	C
ATOM	5504	CB	ARG	704	-2.080	82.202	34.591	1.00214.76	C
ATOM	5505	CG	ARG	704	-2.212	82.905	33.236	1.00214.76	C
ATOM	5506	CD	ARG	704	-2.489	84.407	33.337	1.00214.76	C
ATOM	5507	NE	ARG	704	-3.892	84.579	33.808	1.00214.76	N
ATOM	5508	CZ	ARG	704	-4.174	84.594	35.143	1.00214.76	C
ATOM	5509	NH1	ARG	704	-3.169	84.461	36.057	1.00214.76	N
ATOM	5510	NH2	ARG	704	-5.464	84.744	35.561	1.00214.76	N
ATOM	5511	C	ARG	704	-0.761	81.935	36.654	1.00214.76	C
ATOM	5512	O	ARG	704	-1.282	82.393	37.665	1.00214.76	O
ATOM	5513	N	SER	705	-0.075	80.772	36.635	1.00 78.85	N
ATOM	5514	CA	SER	705	0.070	79.979	37.818	1.00 78.85	C
ATOM	5515	CB	SER	705	1.056	78.805	37.665	1.00 78.85	C
ATOM	5516	OG	SER	705	0.551	77.828	36.768	1.00 78.85	O
ATOM	5517	C	SER	705	0.655	80.874	38.848	1.00 78.85	C
ATOM	5518	O	SER	705	0.201	80.872	39.984	1.00 78.85	O
ATOM	5519	N	MET	706	1.697	81.635	38.468	1.00103.08	N
ATOM	5520	CA	MET	706	2.385	82.556	39.322	1.00103.08	C
ATOM	5521	CB	MET	706	3.620	83.104	38.587	1.00103.08	C
ATOM	5522	CG	MET	706	4.612	82.005	38.195	1.00103.08	C
ATOM	5523	SD	MET	706	5.616	82.369	36.724	1.00103.08	S
ATOM	5524	CE	MET	706	6.501	83.787	37.426	1.00103.08	C
ATOM	5525	C	MET	706	1.542	83.744	39.715	1.00103.08	C
ATOM	5526	O	MET	706	1.409	84.059	40.897	1.00103.08	O
ATOM	5527	N	LEU	707	0.913	84.421	38.734	1.00140.66	N
ATOM	5528	CA	LEU	707	0.180	85.623	39.017	1.00140.66	C
ATOM	5529	CB	LEU	707	-0.410	86.258	37.743	1.00140.66	C
ATOM	5530	CG	LEU	707	-0.977	87.680	37.937	1.00140.66	C
ATOM	5531	CD1	LEU	707	-2.195	87.704	38.873	1.00140.66	C
ATOM	5532	CD2	LEU	707	0.130	88.657	38.366	1.00140.66	C
ATOM	5533	C	LEU	707	-0.943	85.250	39.927	1.00140.66	C
ATOM	5534	O	LEU	707	-1.224	85.955	40.897	1.00140.66	O
ATOM	5535	N	ARG	708	-1.615	84.124	39.610	1.00 94.19	N
ATOM	5536	CA	ARG	708	-2.700	83.592	40.388	1.00 94.19	C
ATOM	5537	CB	ARG	708	-3.342	82.336	39.784	1.00 94.19	C
ATOM	5538	CG	ARG	708	-4.200	82.581	38.546	1.00 94.19	C
ATOM	5539	CD	ARG	708	-4.903	81.308	38.067	1.00 94.19	C
ATOM	5540	NE	ARG	708	-3.847	80.380	37.576	1.00 94.19	N
ATOM	5541	CZ	ARG	708	-3.854	79.961	36.278	1.00 94.19	C
ATOM	5542	NH1	ARG	708	-4.878	80.322	35.450	1.00 94.19	N
ATOM	5543	NH2	ARG	708	-2.840	79.180	35.806	1.00 94.19	N

ATOM	5544	C	ARG	708	-2.134	83.171	41.687	1.00	94.19	C
ATOM	5545	O	ARG	708	-2.708	83.413	42.747	1.00	94.19	O
ATOM	5546	N	GLN	709	-0.942	82.553	41.614	1.00	211.72	N
ATOM	5547	CA	GLN	709	-0.217	82.144	42.770	1.00	211.72	C
ATOM	5548	CB	GLN	709	1.177	81.562	42.437	1.00	211.72	C
ATOM	5549	CG	GLN	709	2.086	81.235	43.621	1.00	211.72	C
ATOM	5550	CD	GLN	709	1.632	79.943	44.275	1.00	211.72	C
ATOM	5551	OE1	GLN	709	2.219	78.882	44.066	1.00	211.72	O
ATOM	5552	NE2	GLN	709	0.562	80.042	45.106	1.00	211.72	N
ATOM	5553	C	GLN	709	0.000	83.423	43.492	1.00	211.72	C
ATOM	5554	O	GLN	709	-0.151	84.516	42.949	1.00	211.72	O
ATOM	5555	N	ASP	710	0.286	83.320	44.781	1.00	153.31	N
ATOM	5556	CA	ASP	710	0.483	84.488	45.554	1.00	153.31	C
ATOM	5557	CB	ASP	710	-0.642	85.540	45.435	1.00	153.31	C
ATOM	5558	CG	ASP	710	-2.000	84.949	45.805	1.00	153.31	C
ATOM	5559	OD1	ASP	710	-2.088	83.722	46.074	1.00	153.31	O
ATOM	5560	OD2	ASP	710	-2.982	85.737	45.806	1.00	153.31	O
ATOM	5561	C	ASP	710	0.511	83.945	46.914	1.00	153.31	C
ATOM	5562	O	ASP	710	0.871	82.782	47.087	1.00	153.31	O
ATOM	5563	N	VAL	711	0.148	84.772	47.905	1.00	124.75	N
ATOM	5564	CA	VAL	711	0.142	84.297	49.244	1.00	124.75	C
ATOM	5565	CB	VAL	711	-0.495	82.936	49.428	1.00	124.75	C
ATOM	5566	CG1	VAL	711	-0.596	82.558	50.918	1.00	124.75	C
ATOM	5567	CG2	VAL	711	-1.846	82.967	48.701	1.00	124.75	C
ATOM	5568	C	VAL	711	1.591	84.307	49.583	1.00	124.75	C
ATOM	5569	O	VAL	711	2.353	85.028	48.941	1.00	124.75	O
ATOM	5570	N	SER	712	2.020	83.485	50.550	1.00	88.85	N
ATOM	5571	CA	SER	712	3.365	83.475	51.038	1.00	88.85	C
ATOM	5572	CB	SER	712	3.579	82.481	52.187	1.00	88.85	C
ATOM	5573	OG	SER	712	2.886	82.940	53.336	1.00	88.85	O
ATOM	5574	C	SER	712	4.340	83.130	49.959	1.00	88.85	C
ATOM	5575	O	SER	712	5.522	82.975	50.254	1.00	88.85	O
ATOM	5576	N	TRP	713	3.900	82.949	48.698	1.00	131.41	N
ATOM	5577	CA	TRP	713	4.871	82.676	47.675	1.00	131.41	C
ATOM	5578	CB	TRP	713	4.206	82.541	46.292	1.00	131.41	C
ATOM	5579	CG	TRP	713	5.104	82.224	45.114	1.00	131.41	C
ATOM	5580	CD2	TRP	713	5.554	80.907	44.745	1.00	131.41	C
ATOM	5581	CD1	TRP	713	5.608	83.076	44.177	1.00	131.41	C
ATOM	5582	NE1	TRP	713	6.324	82.375	43.236	1.00	131.41	N
ATOM	5583	CE2	TRP	713	6.305	81.041	43.576	1.00	131.41	C
ATOM	5584	CE3	TRP	713	5.357	79.688	45.328	1.00	131.41	C
ATOM	5585	CZ2	TRP	713	6.865	79.953	42.965	1.00	131.41	C
ATOM	5586	CZ3	TRP	713	5.932	78.595	44.713	1.00	131.41	C
ATOM	5587	CH2	TRP	713	6.670	78.723	43.554	1.00	131.41	C
ATOM	5588	C	TRP	713	5.846	83.819	47.674	1.00	131.41	C
ATOM	5589	O	TRP	713	6.971	83.641	48.121	1.00	131.41	O
ATOM	5590	N	PHE	714	5.457	85.024	47.213	1.00	122.26	N
ATOM	5591	CA	PHE	714	6.297	86.190	47.309	1.00	122.26	C
ATOM	5592	CB	PHE	714	5.887	87.360	46.404	1.00	122.26	C
ATOM	5593	CG	PHE	714	6.069	86.942	44.993	1.00	122.26	C
ATOM	5594	CD1	PHE	714	7.326	86.688	44.501	1.00	122.26	C
ATOM	5595	CD2	PHE	714	4.981	86.836	44.160	1.00	122.26	C
ATOM	5596	CE1	PHE	714	7.493	86.309	43.191	1.00	122.26	C
ATOM	5597	CE2	PHE	714	5.140	86.460	42.850	1.00	122.26	C
ATOM	5598	CZ	PHE	714	6.400	86.194	42.365	1.00	122.26	C
ATOM	5599	C	PHE	714	6.142	86.715	48.700	1.00	122.26	C
ATOM	5600	O	PHE	714	7.017	87.399	49.227	1.00	122.26	O
ATOM	5601	N	ASP	715	4.963	86.447	49.299	1.00	95.52	N
ATOM	5602	CA	ASP	715	4.597	86.946	50.595	1.00	95.52	C
ATOM	5603	CB	ASP	715	3.186	86.549	51.061	1.00	95.52	C
ATOM	5604	CG	ASP	715	2.172	87.393	50.297	1.00	95.52	C
ATOM	5605	OD1	ASP	715	2.585	88.096	49.339	1.00	95.52	O
ATOM	5606	OD2	ASP	715	0.967	87.341	50.662	1.00	95.52	O
ATOM	5607	C	ASP	715	5.577	86.462	51.626	1.00	95.52	C
ATOM	5608	O	ASP	715	5.748	87.125	52.650	1.00	95.52	O
ATOM	5609	N	ASP	716	6.160	85.256	51.427	1.00	122.43	N
ATOM	5610	CA	ASP	716	7.227	84.730	52.248	1.00	122.43	C
ATOM	5611	CB	ASP	716	6.718	83.918	53.456	1.00	122.43	C
ATOM	5612	CG	ASP	716	7.798	83.909	54.536	1.00	122.43	C
ATOM	5613	OD1	ASP	716	8.439	84.974	54.746	1.00	122.43	O
ATOM	5614	OD2	ASP	716	7.996	82.835	55.164	1.00	122.43	O
ATOM	5615	C	ASP	716	7.969	83.789	51.317	1.00	122.43	C
ATOM	5616	O	ASP	716	7.776	82.576	51.345	1.00	122.43	O
ATOM	5617	N	PRO	717	8.832	84.375	50.517	1.00	183.08	N

ATOM	5618	CA	PRO	717	9.434	83.776	49.342	1.00183.08	C
ATOM	5619	CD	PRO	717	8.957	85.819	50.509	1.00183.08	C
ATOM	5620	CB	PRO	717	9.677	84.937	48.379	1.00183.08	C
ATOM	5621	CG	PRO	717	9.863	86.142	49.308	1.00183.08	C
ATOM	5622	C	PRO	717	10.641	82.905	49.335	1.00183.08	C
ATOM	5623	O	PRO	717	11.263	82.655	50.367	1.00183.08	O
ATOM	5624	N	LYS	718	10.951	82.439	48.102	1.00308.65	N
ATOM	5625	CA	LYS	718	12.104	81.662	47.786	1.00308.65	C
ATOM	5626	CB	LYS	718	11.945	80.255	48.357	1.00308.65	C
ATOM	5627	CG	LYS	718	10.594	79.661	47.973	1.00308.65	C
ATOM	5628	CD	LYS	718	10.321	78.323	48.642	1.00308.65	C
ATOM	5629	CE	LYS	718	9.995	78.477	50.129	1.00308.65	C
ATOM	5630	NZ	LYS	718	8.844	79.393	50.302	1.00308.65	N
ATOM	5631	C	LYS	718	12.177	81.577	46.290	1.00308.65	C
ATOM	5632	O	LYS	718	12.793	80.664	45.745	1.00308.65	O
ATOM	5633	N	ASN	719	11.553	82.531	45.565	1.00159.78	N
ATOM	5634	CA	ASN	719	11.625	82.413	44.140	1.00159.78	C
ATOM	5635	CB	ASN	719	10.369	81.733	43.578	1.00159.78	C
ATOM	5636	CG	ASN	719	10.310	80.340	44.188	1.00159.78	C
ATOM	5637	OD1	ASN	719	11.005	79.426	43.748	1.00159.78	O
ATOM	5638	ND2	ASN	719	9.464	80.175	45.240	1.00159.78	N
ATOM	5639	C	ASN	719	11.698	83.780	43.551	1.00159.78	C
ATOM	5640	O	ASN	719	10.674	84.391	43.253	1.00159.78	O
ATOM	5641	N	THR	720	12.925	84.249	43.272	1.00160.51	N
ATOM	5642	CA	THR	720	13.110	85.586	42.801	1.00160.51	C
ATOM	5643	CB	THR	720	14.530	86.066	42.804	1.00160.51	C
ATOM	5644	OG1	THR	720	15.352	85.217	42.018	1.00160.51	O
ATOM	5645	CG2	THR	720	15.019	86.127	44.254	1.00160.51	C
ATOM	5646	C	THR	720	12.611	85.716	41.415	1.00160.51	C
ATOM	5647	O	THR	720	12.287	84.740	40.738	1.00160.51	O
ATOM	5648	N	THR	721	12.546	86.976	40.968	1.00 65.52	N
ATOM	5649	CA	THR	721	12.031	87.269	39.676	1.00 65.52	C
ATOM	5650	CB	THR	721	12.062	88.732	39.346	1.00 65.52	C
ATOM	5651	OG1	THR	721	11.275	89.457	40.278	1.00 65.52	O
ATOM	5652	CG2	THR	721	11.521	88.936	37.921	1.00 65.52	C
ATOM	5653	C	THR	721	12.846	86.561	38.647	1.00 65.52	C
ATOM	5654	O	THR	721	12.298	85.932	37.743	1.00 65.52	O
ATOM	5655	N	GLY	722	14.183	86.606	38.774	1.00 62.52	N
ATOM	5656	CA	GLY	722	15.021	86.021	37.765	1.00 62.52	C
ATOM	5657	C	GLY	722	14.717	84.569	37.683	1.00 62.52	C
ATOM	5658	O	GLY	722	14.631	84.007	36.591	1.00 62.52	O
ATOM	5659	N	ALA	723	14.515	83.934	38.849	1.00 90.11	N
ATOM	5660	CA	ALA	723	14.275	82.527	38.857	1.00 90.11	C
ATOM	5661	CB	ALA	723	13.970	81.993	40.268	1.00 90.11	C
ATOM	5662	C	ALA	723	13.072	82.296	38.019	1.00 90.11	C
ATOM	5663	O	ALA	723	12.996	81.330	37.265	1.00 90.11	O
ATOM	5664	N	LEU	724	12.090	83.193	38.142	1.00172.36	N
ATOM	5665	CA	LEU	724	10.883	83.074	37.386	1.00172.36	C
ATOM	5666	CB	LEU	724	9.787	83.992	37.930	1.00172.36	C
ATOM	5667	CG	LEU	724	9.160	83.436	39.220	1.00172.36	C
ATOM	5668	CD1	LEU	724	10.212	83.024	40.257	1.00172.36	C
ATOM	5669	CD2	LEU	724	8.158	84.443	39.788	1.00172.36	C
ATOM	5670	C	LEU	724	11.041	83.319	35.910	1.00172.36	C
ATOM	5671	O	LEU	724	10.566	82.524	35.097	1.00172.36	O
ATOM	5672	N	THR	725	11.736	84.403	35.509	1.00 70.52	N
ATOM	5673	CA	THR	725	11.802	84.703	34.105	1.00 70.52	C
ATOM	5674	CB	THR	725	12.604	85.934	33.789	1.00 70.52	C
ATOM	5675	OG1	THR	725	13.959	85.753	34.169	1.00 70.52	O
ATOM	5676	CG2	THR	725	11.993	87.122	34.545	1.00 70.52	C
ATOM	5677	C	THR	725	12.463	83.558	33.419	1.00 70.52	C
ATOM	5678	O	THR	725	12.024	83.103	32.358	1.00 70.52	O
ATOM	5679	N	THR	726	13.528	83.035	34.049	1.00173.44	N
ATOM	5680	CA	THR	726	14.255	81.979	33.415	1.00173.44	C
ATOM	5681	CB	THR	726	15.380	81.438	34.246	1.00173.44	C
ATOM	5682	OG1	THR	726	14.905	81.003	35.512	1.00173.44	O
ATOM	5683	CG2	THR	726	16.451	82.522	34.406	1.00173.44	C
ATOM	5684	C	THR	726	13.341	80.844	33.174	1.00173.44	C
ATOM	5685	O	THR	726	13.231	80.346	32.053	1.00173.44	O
ATOM	5686	N	ARG	727	12.594	80.469	34.221	1.00164.28	N
ATOM	5687	CA	ARG	727	11.772	79.310	34.095	1.00164.28	C
ATOM	5688	CB	ARG	727	10.968	79.014	35.370	1.00164.28	C
ATOM	5689	CG	ARG	727	11.819	78.285	36.406	1.00164.28	C
ATOM	5690	CD	ARG	727	11.739	76.766	36.246	1.00164.28	C
ATOM	5691	NE	ARG	727	12.882	76.176	36.994	1.00164.28	N

ATOM	5692	CZ	ARG	727	14.039	75.904	36.322	1.00164.28	C
ATOM	5693	NH1	ARG	727	14.104	76.088	34.973	1.00164.28	N
ATOM	5694	NH2	ARG	727	15.138	75.456	36.988	1.00164.28	N
ATOM	5695	C	ARG	727	10.823	79.456	32.955	1.00164.28	C
ATOM	5696	O	ARG	727	10.696	78.530	32.158	1.00164.28	O
ATOM	5697	N	LEU	728	10.190	80.630	32.786	1.00103.93	N
ATOM	5698	CA	LEU	728	9.172	80.696	31.779	1.00103.93	C
ATOM	5699	CB	LEU	728	8.538	82.089	31.660	1.00103.93	C
ATOM	5700	CG	LEU	728	7.888	82.581	32.965	1.00103.93	C
ATOM	5701	CD1	LEU	728	7.067	83.853	32.717	1.00103.93	C
ATOM	5702	CD2	LEU	728	7.091	81.469	33.664	1.00103.93	C
ATOM	5703	C	LEU	728	9.700	80.347	30.413	1.00103.93	C
ATOM	5704	O	LEU	728	9.244	79.384	29.797	1.00103.93	O
ATOM	5705	N	ALA	729	10.728	81.059	29.927	1.00 90.91	N
ATOM	5706	CA	ALA	729	11.098	80.808	28.561	1.00 90.91	C
ATOM	5707	CB	ALA	729	12.123	81.822	28.027	1.00 90.91	C
ATOM	5708	C	ALA	729	11.674	79.447	28.305	1.00 90.91	C
ATOM	5709	O	ALA	729	11.154	78.695	27.478	1.00 90.91	O
ATOM	5710	N	ASN	730	12.725	79.054	29.052	1.00124.85	N
ATOM	5711	CA	ASN	730	13.397	77.859	28.615	1.00124.85	C
ATOM	5712	CB	ASN	730	14.712	77.553	29.368	1.00124.85	C
ATOM	5713	CG	ASN	730	14.413	77.104	30.789	1.00124.85	C
ATOM	5714	OD1	ASN	730	14.101	75.937	31.020	1.00124.85	O
ATOM	5715	ND2	ASN	730	14.521	78.040	31.770	1.00124.85	N
ATOM	5716	C	ASN	730	12.499	76.671	28.732	1.00124.85	C
ATOM	5717	O	ASN	730	12.360	75.902	27.780	1.00124.85	O
ATOM	5718	N	ASP	731	11.806	76.535	29.879	1.00194.74	N
ATOM	5719	CA	ASP	731	11.092	75.309	30.103	1.00194.74	C
ATOM	5720	CB	ASP	731	10.767	74.966	31.584	1.00194.74	C
ATOM	5721	CG	ASP	731	9.867	75.948	32.281	1.00194.74	C
ATOM	5722	OD1	ASP	731	8.963	76.502	31.608	1.00194.74	O
ATOM	5723	OD2	ASP	731	10.092	76.184	33.500	1.00194.74	O
ATOM	5724	C	ASP	731	9.934	75.071	29.182	1.00194.74	C
ATOM	5725	O	ASP	731	9.647	73.913	28.882	1.00194.74	O
ATOM	5726	N	ALA	732	9.226	76.113	28.696	1.00 74.25	N
ATOM	5727	CA	ALA	732	8.144	75.789	27.801	1.00 74.25	C
ATOM	5728	CB	ALA	732	7.405	77.030	27.280	1.00 74.25	C
ATOM	5729	C	ALA	732	8.719	75.075	26.608	1.00 74.25	C
ATOM	5730	O	ALA	732	8.209	74.045	26.168	1.00 74.25	O
ATOM	5731	N	ALA	733	9.859	75.556	26.093	1.00 80.27	N
ATOM	5732	CA	ALA	733	10.379	74.943	24.899	1.00 80.27	C
ATOM	5733	CB	ALA	733	11.684	75.603	24.424	1.00 80.27	C
ATOM	5734	C	ALA	733	10.678	73.484	25.103	1.00 80.27	C
ATOM	5735	O	ALA	733	10.242	72.634	24.326	1.00 80.27	O
ATOM	5736	N	GLN	734	11.362	73.145	26.205	1.00118.43	N
ATOM	5737	CA	GLN	734	11.848	71.812	26.422	1.00118.43	C
ATOM	5738	CB	GLN	734	12.470	71.706	27.819	1.00118.43	C
ATOM	5739	CG	GLN	734	13.415	72.869	28.134	1.00118.43	C
ATOM	5740	CD	GLN	734	14.819	72.511	27.701	1.00118.43	C
ATOM	5741	OE1	GLN	734	15.420	71.568	28.214	1.00118.43	O
ATOM	5742	NE2	GLN	734	15.365	73.294	26.735	1.00118.43	N
ATOM	5743	C	GLN	734	10.701	70.842	26.415	1.00118.43	C
ATOM	5744	O	GLN	734	10.751	69.800	25.755	1.00118.43	O
ATOM	5745	N	VAL	735	9.608	71.190	27.118	1.00 86.32	N
ATOM	5746	CA	VAL	735	8.513	70.270	27.283	1.00 86.32	C
ATOM	5747	CB	VAL	735	7.395	70.832	28.116	1.00 86.32	C
ATOM	5748	CG1	VAL	735	7.941	71.146	29.519	1.00 86.32	C
ATOM	5749	CG2	VAL	735	6.789	72.045	27.394	1.00 86.32	C
ATOM	5750	C	VAL	735	7.958	69.880	25.948	1.00 86.32	C
ATOM	5751	O	VAL	735	7.635	68.709	25.720	1.00 86.32	O
ATOM	5752	N	LYS	736	7.892	70.856	25.022	1.00162.25	N
ATOM	5753	CA	LYS	736	7.381	70.636	23.700	1.00162.25	C
ATOM	5754	CB	LYS	736	7.695	71.862	22.825	1.00162.25	C
ATOM	5755	CG	LYS	736	7.417	71.733	21.330	1.00162.25	C
ATOM	5756	CD	LYS	736	8.370	70.818	20.562	1.00162.25	C
ATOM	5757	CE	LYS	736	8.183	70.920	19.048	1.00162.25	C
ATOM	5758	NZ	LYS	736	8.510	72.290	18.590	1.00162.25	N
ATOM	5759	C	LYS	736	8.128	69.451	23.165	1.00162.25	C
ATOM	5760	O	LYS	736	7.578	68.585	22.481	1.00162.25	O
ATOM	5761	N	GLY	737	9.411	69.360	23.545	1.00 66.82	N
ATOM	5762	CA	GLY	737	10.234	68.274	23.094	1.00 66.82	C
ATOM	5763	C	GLY	737	9.720	66.941	23.571	1.00 66.82	C
ATOM	5764	O	GLY	737	9.711	65.968	22.816	1.00 66.82	O
ATOM	5765	N	ALA	738	9.261	66.851	24.834	1.00 98.40	N

ATOM	5766	CA	ALA	738	8.887	65.566	25.375	1.00	98.40	C
ATOM	5767	CB	ALA	738	8.425	65.656	26.839	1.00	98.40	C
ATOM	5768	C	ALA	738	7.769	64.921	24.578	1.00	98.40	C
ATOM	5769	O	ALA	738	7.747	63.697	24.431	1.00	98.40	O
ATOM	5770	N	ILE	739	6.766	65.700	24.113	1.00	150.84	N
ATOM	5771	CA	ILE	739	5.656	65.136	23.367	1.00	150.84	C
ATOM	5772	CB	ILE	739	4.458	66.040	23.303	1.00	150.84	C
ATOM	5773	CG1	ILE	739	3.255	65.255	22.753	1.00	150.84	C
ATOM	5774	CG2	ILE	739	4.825	67.288	22.483	1.00	150.84	C
ATOM	5775	CD1	ILE	739	1.916	65.969	22.924	1.00	150.84	C
ATOM	5776	C	ILE	739	5.963	64.707	21.941	1.00	150.84	C
ATOM	5777	O	ILE	739	5.607	63.605	21.515	1.00	150.84	O
ATOM	5778	N	GLY	740	6.653	65.561	21.154	1.00	79.83	N
ATOM	5779	CA	GLY	740	6.908	65.253	19.765	1.00	79.83	C
ATOM	5780	C	GLY	740	7.639	63.948	19.708	1.00	79.83	C
ATOM	5781	O	GLY	740	7.541	63.205	18.728	1.00	79.83	O
ATOM	5782	N	SER	741	8.426	63.666	20.763	1.00	108.43	N
ATOM	5783	CA	SER	741	9.210	62.461	20.828	1.00	108.43	C
ATOM	5784	CB	SER	741	10.012	62.326	22.133	1.00	108.43	C
ATOM	5785	OG	SER	741	10.732	61.101	22.137	1.00	108.43	O
ATOM	5786	C	SER	741	8.322	61.257	20.752	1.00	108.43	C
ATOM	5787	O	SER	741	8.618	60.297	20.033	1.00	108.43	O
ATOM	5788	N	ARG	742	7.181	61.297	21.461	1.00	179.58	N
ATOM	5789	CA	ARG	742	6.345	60.137	21.509	1.00	179.58	C
ATOM	5790	CB	ARG	742	5.079	60.361	22.357	1.00	179.58	C
ATOM	5791	CG	ARG	742	5.402	60.729	23.809	1.00	179.58	C
ATOM	5792	CD	ARG	742	5.984	59.576	24.634	1.00	179.58	C
ATOM	5793	NE	ARG	742	6.335	60.122	25.977	1.00	179.58	N
ATOM	5794	CZ	ARG	742	6.529	59.283	27.036	1.00	179.58	C
ATOM	5795	NH1	ARG	742	6.409	57.933	26.873	1.00	179.58	N
ATOM	5796	NH2	ARG	742	6.834	59.794	28.264	1.00	179.58	N
ATOM	5797	C	ARG	742	5.936	59.818	20.081	1.00	179.58	C
ATOM	5798	O	ARG	742	5.772	58.662	19.690	1.00	179.58	O
ATOM	5799	N	LEU	743	5.777	60.861	19.250	1.00	167.90	N
ATOM	5800	CA	LEU	743	5.323	60.732	17.884	1.00	167.90	C
ATOM	5801	CB	LEU	743	5.073	62.138	17.291	1.00	167.90	C
ATOM	5802	CG	LEU	743	4.301	62.241	15.956	1.00	167.90	C
ATOM	5803	CD1	LEU	743	4.152	63.716	15.551	1.00	167.90	C
ATOM	5804	CD2	LEU	743	4.909	61.413	14.812	1.00	167.90	C
ATOM	5805	C	LEU	743	6.277	59.976	16.973	1.00	167.90	C
ATOM	5806	O	LEU	743	5.883	59.056	16.251	1.00	167.90	O
ATOM	5807	N	ALA	744	7.570	60.332	16.993	1.00	118.75	N
ATOM	5808	CA	ALA	744	8.568	59.774	16.114	1.00	118.75	C
ATOM	5809	CB	ALA	744	9.952	60.422	16.300	1.00	118.75	C
ATOM	5810	C	ALA	744	8.698	58.321	16.402	1.00	118.75	C
ATOM	5811	O	ALA	744	9.278	57.576	15.611	1.00	118.75	O
ATOM	5812	N	VAL	745	8.306	57.913	17.621	1.00	177.53	N
ATOM	5813	CA	VAL	745	8.452	56.531	17.942	1.00	177.53	C
ATOM	5814	CB	VAL	745	8.306	56.206	19.409	1.00	177.53	C
ATOM	5815	CG1	VAL	745	6.834	56.146	19.844	1.00	177.53	C
ATOM	5816	CG2	VAL	745	9.077	54.905	19.655	1.00	177.53	C
ATOM	5817	C	VAL	745	7.529	55.678	17.127	1.00	177.53	C
ATOM	5818	O	VAL	745	7.967	54.748	16.447	1.00	177.53	O
ATOM	5819	N	ILE	746	6.229	56.022	17.101	1.00	83.80	N
ATOM	5820	CA	ILE	746	5.296	55.170	16.420	1.00	83.80	C
ATOM	5821	CB	ILE	746	3.896	55.713	16.403	1.00	83.80	C
ATOM	5822	CG1	ILE	746	3.307	55.765	17.818	1.00	83.80	C
ATOM	5823	CG2	ILE	746	3.073	54.881	15.406	1.00	83.80	C
ATOM	5824	CD1	ILE	746	2.004	56.560	17.892	1.00	83.80	C
ATOM	5825	C	ILE	746	5.704	55.087	14.987	1.00	83.80	C
ATOM	5826	O	ILE	746	5.722	54.013	14.382	1.00	83.80	O
ATOM	5827	N	THR	747	6.095	56.240	14.428	1.00	173.29	N
ATOM	5828	CA	THR	747	6.354	56.293	13.023	1.00	173.29	C
ATOM	5829	CB	THR	747	6.690	57.685	12.559	1.00	173.29	C
ATOM	5830	OG1	THR	747	6.906	57.693	11.156	1.00	173.29	O
ATOM	5831	CG2	THR	747	7.935	58.200	13.299	1.00	173.29	C
ATOM	5832	C	THR	747	7.433	55.369	12.551	1.00	173.29	C
ATOM	5833	O	THR	747	7.158	54.473	11.753	1.00	173.29	O
ATOM	5834	N	GLN	748	8.661	55.485	13.087	1.00	103.65	N
ATOM	5835	CA	GLN	748	9.755	54.740	12.526	1.00	103.65	C
ATOM	5836	CB	GLN	748	11.078	54.926	13.279	1.00	103.65	C
ATOM	5837	CG	GLN	748	11.047	54.361	14.699	1.00	103.65	C
ATOM	5838	CD	GLN	748	12.493	54.232	15.153	1.00	103.65	C
ATOM	5839	OE1	GLN	748	12.796	54.296	16.344	1.00	103.65	O

ATOM	5840	NE2	GLN	748	13.412	54.032	14.171	1.00103.65	N
ATOM	5841	C	GLN	748	9.420	53.291	12.631	1.00103.65	C
ATOM	5842	O	GLN	748	9.666	52.507	11.712	1.00103.65	O
ATOM	5843	N	ASN	749	8.752	52.940	13.742	1.00106.81	N
ATOM	5844	CA	ASN	749	8.462	51.569	14.024	1.00106.81	C
ATOM	5845	CB	ASN	749	7.526	51.437	15.235	1.00106.81	C
ATOM	5846	CG	ASN	749	7.061	49.992	15.350	1.00106.81	C
ATOM	5847	OD1	ASN	749	7.777	49.055	15.000	1.00106.81	O
ATOM	5848	ND2	ASN	749	5.804	49.812	15.838	1.00106.81	N
ATOM	5849	C	ASN	749	7.760	50.910	12.886	1.00106.81	C
ATOM	5850	O	ASN	749	8.279	49.970	12.285	1.00106.81	O
ATOM	5851	N	ILE	750	6.583	51.422	12.505	1.00 93.20	N
ATOM	5852	CA	ILE	750	5.853	50.696	11.507	1.00 93.20	C
ATOM	5853	CB	ILE	750	4.472	51.222	11.256	1.00 93.20	C
ATOM	5854	CG1	ILE	750	3.597	50.926	12.487	1.00 93.20	C
ATOM	5855	CG2	ILE	750	3.949	50.604	9.948	1.00 93.20	C
ATOM	5856	CD1	ILE	750	2.162	51.430	12.380	1.00 93.20	C
ATOM	5857	C	ILE	750	6.606	50.640	10.220	1.00 93.20	C
ATOM	5858	O	ILE	750	6.645	49.588	9.581	1.00 93.20	O
ATOM	5859	N	ALA	751	7.258	51.752	9.826	1.00100.45	N
ATOM	5860	CA	ALA	751	7.876	51.790	8.530	1.00100.45	C
ATOM	5861	CB	ALA	751	8.851	52.958	8.408	1.00100.45	C
ATOM	5862	C	ALA	751	8.831	50.669	8.357	1.00100.45	C
ATOM	5863	O	ALA	751	8.595	49.736	7.589	1.00100.45	O
ATOM	5864	N	ASN	752	9.889	50.692	9.175	1.00110.50	N
ATOM	5865	CA	ASN	752	10.949	49.767	8.968	1.00110.50	C
ATOM	5866	CB	ASN	752	12.063	49.961	10.011	1.00110.50	C
ATOM	5867	CG	ASN	752	13.161	48.932	9.789	1.00110.50	C
ATOM	5868	OD1	ASN	752	14.193	49.235	9.200	1.00110.50	O
ATOM	5869	ND2	ASN	752	12.954	47.683	10.286	1.00110.50	N
ATOM	5870	C	ASN	752	10.439	48.383	9.125	1.00110.50	C
ATOM	5871	O	ASN	752	10.484	47.585	8.188	1.00110.50	O
ATOM	5872	N	LEU	753	9.926	48.059	10.324	1.00109.87	N
ATOM	5873	CA	LEU	753	9.576	46.684	10.478	1.00109.87	C
ATOM	5874	CB	LEU	753	9.261	46.275	11.926	1.00109.87	C
ATOM	5875	CG	LEU	753	8.878	44.785	12.046	1.00109.87	C
ATOM	5876	CD1	LEU	753	10.017	43.865	11.576	1.00109.87	C
ATOM	5877	CD2	LEU	753	8.384	44.448	13.461	1.00109.87	C
ATOM	5878	C	LEU	753	8.399	46.293	9.663	1.00109.87	C
ATOM	5879	O	LEU	753	8.551	45.542	8.705	1.00109.87	O
ATOM	5880	N	GLY	754	7.236	46.924	9.923	1.00 53.11	N
ATOM	5881	CA	GLY	754	6.003	46.408	9.397	1.00 53.11	C
ATOM	5882	C	GLY	754	6.058	46.292	7.911	1.00 53.11	C
ATOM	5883	O	GLY	754	5.720	45.250	7.348	1.00 53.11	O
ATOM	5884	N	THR	755	6.518	47.350	7.232	1.00 51.93	N
ATOM	5885	CA	THR	755	6.555	47.285	5.802	1.00 51.93	C
ATOM	5886	CB	THR	755	6.902	48.593	5.161	1.00 51.93	C
ATOM	5887	OG1	THR	755	5.997	49.601	5.589	1.00 51.93	O
ATOM	5888	CG2	THR	755	6.791	48.420	3.636	1.00 51.93	C
ATOM	5889	C	THR	755	7.589	46.291	5.378	1.00 51.93	C
ATOM	5890	O	THR	755	7.385	45.516	4.444	1.00 51.93	O
ATOM	5891	N	GLY	756	8.742	46.288	6.068	1.00 42.25	N
ATOM	5892	CA	GLY	756	9.818	45.430	5.671	1.00 42.25	C
ATOM	5893	C	GLY	756	9.399	44.005	5.801	1.00 42.25	C
ATOM	5894	O	GLY	756	9.730	43.182	4.953	1.00 42.25	O
ATOM	5895	N	ILE	757	8.664	43.675	6.877	1.00 97.31	N
ATOM	5896	CA	ILE	757	8.291	42.317	7.142	1.00 97.31	C
ATOM	5897	CB	ILE	757	7.621	42.132	8.481	1.00 97.31	C
ATOM	5898	CG1	ILE	757	7.628	40.645	8.877	1.00 97.31	C
ATOM	5899	CG2	ILE	757	6.215	42.753	8.434	1.00 97.31	C
ATOM	5900	CD1	ILE	757	7.255	40.396	10.339	1.00 97.31	C
ATOM	5901	C	ILE	757	7.380	41.804	6.070	1.00 97.31	C
ATOM	5902	O	ILE	757	7.526	40.671	5.615	1.00 97.31	O
ATOM	5903	N	ILE	758	6.413	42.623	5.622	1.00 99.82	N
ATOM	5904	CA	ILE	758	5.491	42.129	4.639	1.00 99.82	C
ATOM	5905	CB	ILE	758	4.508	43.174	4.198	1.00 99.82	C
ATOM	5906	CG1	ILE	758	3.694	43.681	5.397	1.00 99.82	C
ATOM	5907	CG2	ILE	758	3.650	42.566	3.077	1.00 99.82	C
ATOM	5908	CD1	ILE	758	2.908	42.580	6.103	1.00 99.82	C
ATOM	5909	C	ILE	758	6.291	41.772	3.431	1.00 99.82	C
ATOM	5910	O	ILE	758	6.190	40.674	2.885	1.00 99.82	O
ATOM	5911	N	ILE	759	7.166	42.698	3.026	1.00127.38	N
ATOM	5912	CA	ILE	759	8.009	42.520	1.886	1.00127.38	C
ATOM	5913	CB	ILE	759	8.857	43.718	1.574	1.00127.38	C

ATOM	5914	CG1	ILE	759	7.948	44.908	1.232	1.00127.38	C
ATOM	5915	CG2	ILE	759	9.809	43.348	0.424	1.00127.38	C
ATOM	5916	CD1	ILE	759	7.050	44.642	0.024	1.00127.38	C
ATOM	5917	C	ILE	759	8.893	41.362	2.193	1.00127.38	C
ATOM	5918	O	ILE	759	9.473	40.751	1.296	1.00127.38	O
ATOM	5919	N	SER	760	9.104	41.115	3.498	1.00 51.51	N
ATOM	5920	CA	SER	760	9.917	40.017	3.924	1.00 51.51	C
ATOM	5921	CB	SER	760	10.153	39.943	5.445	1.00 51.51	C
ATOM	5922	OG	SER	760	10.882	41.076	5.893	1.00 51.51	O
ATOM	5923	C	SER	760	9.239	38.752	3.520	1.00 51.51	C
ATOM	5924	O	SER	760	9.900	37.761	3.215	1.00 51.51	O
ATOM	5925	N	PHE	761	7.893	38.747	3.511	1.00 48.70	N
ATOM	5926	CA	PHE	761	7.213	37.543	3.134	1.00 48.70	C
ATOM	5927	CB	PHE	761	5.679	37.649	3.197	1.00 48.70	C
ATOM	5928	CG	PHE	761	5.269	37.536	4.624	1.00 48.70	C
ATOM	5929	CD1	PHE	761	5.039	36.290	5.160	1.00 48.70	C
ATOM	5930	CD2	PHE	761	5.118	38.645	5.426	1.00 48.70	C
ATOM	5931	CE1	PHE	761	4.660	36.143	6.472	1.00 48.70	C
ATOM	5932	CE2	PHE	761	4.737	38.504	6.741	1.00 48.70	C
ATOM	5933	CZ	PHE	761	4.507	37.254	7.266	1.00 48.70	C
ATOM	5934	C	PHE	761	7.586	37.215	1.727	1.00 48.70	C
ATOM	5935	O	PHE	761	8.021	36.103	1.430	1.00 48.70	O
ATOM	5936	N	ILE	762	7.494	38.210	0.831	1.00131.32	N
ATOM	5937	CA	ILE	762	7.786	37.961	-0.547	1.00131.32	C
ATOM	5938	CB	ILE	762	7.532	39.120	-1.466	1.00131.32	C
ATOM	5939	CG1	ILE	762	8.480	40.286	-1.215	1.00131.32	C
ATOM	5940	CG2	ILE	762	6.056	39.519	-1.300	1.00131.32	C
ATOM	5941	CD1	ILE	762	8.375	41.318	-2.330	1.00131.32	C
ATOM	5942	C	ILE	762	9.213	37.529	-0.627	1.00131.32	C
ATOM	5943	O	ILE	762	9.598	36.816	-1.553	1.00131.32	O
ATOM	5944	N	TYR	763	10.062	38.007	0.309	1.00135.45	N
ATOM	5945	CA	TYR	763	11.417	37.527	0.267	1.00135.45	C
ATOM	5946	CB	TYR	763	12.399	37.944	1.375	1.00135.45	C
ATOM	5947	CG	TYR	763	12.631	39.410	1.476	1.00135.45	C
ATOM	5948	CD1	TYR	763	12.862	40.191	0.370	1.00135.45	C
ATOM	5949	CD2	TYR	763	12.589	40.006	2.711	1.00135.45	C
ATOM	5950	CE1	TYR	763	13.066	41.546	0.510	1.00135.45	C
ATOM	5951	CE2	TYR	763	12.792	41.354	2.861	1.00135.45	C
ATOM	5952	CZ	TYR	763	13.032	42.128	1.755	1.00135.45	C
ATOM	5953	OH	TYR	763	13.239	43.515	1.906	1.00135.45	O
ATOM	5954	C	TYR	763	11.356	36.037	0.393	1.00135.45	C
ATOM	5955	O	TYR	763	10.470	35.503	1.062	1.00135.45	O
ATOM	5956	N	GLY	764	12.298	35.328	-0.271	1.00 77.34	N
ATOM	5957	CA	GLY	764	12.252	33.892	-0.283	1.00 77.34	C
ATOM	5958	C	GLY	764	13.235	33.273	0.675	1.00 77.34	C
ATOM	5959	O	GLY	764	14.050	32.433	0.296	1.00 77.34	O
ATOM	5960	N	TRP	765	13.212	33.713	1.944	1.00136.06	N
ATOM	5961	CA	TRP	765	13.841	33.009	3.032	1.00136.06	C
ATOM	5962	CB	TRP	765	13.266	31.588	3.164	1.00136.06	C
ATOM	5963	CG	TRP	765	11.759	31.557	3.232	1.00136.06	C
ATOM	5964	CD2	TRP	765	10.974	31.406	4.426	1.00136.06	C
ATOM	5965	CD1	TRP	765	10.874	31.657	2.198	1.00136.06	C
ATOM	5966	NE1	TRP	765	9.587	31.591	2.672	1.00136.06	N
ATOM	5967	CE2	TRP	765	9.635	31.435	4.041	1.00136.06	C
ATOM	5968	CE3	TRP	765	11.341	31.260	5.732	1.00136.06	C
ATOM	5969	CZ2	TRP	765	8.633	31.317	4.962	1.00136.06	C
ATOM	5970	CZ3	TRP	765	10.328	31.139	6.659	1.00136.06	C
ATOM	5971	CH2	TRP	765	9.002	31.169	6.281	1.00136.06	C
ATOM	5972	C	TRP	765	15.326	32.831	2.858	1.00136.06	C
ATOM	5973	O	TRP	765	15.904	31.975	3.526	1.00136.06	O
ATOM	5974	N	GLN	766	15.977	33.465	1.868	1.00157.17	N
ATOM	5975	CA	GLN	766	17.412	33.352	1.818	1.00157.17	C
ATOM	5976	CB	GLN	766	17.909	33.178	0.379	1.00157.17	C
ATOM	5977	CG	GLN	766	17.369	31.882	-0.218	1.00157.17	C
ATOM	5978	CD	GLN	766	17.727	30.792	0.779	1.00157.17	C
ATOM	5979	OE1	GLN	766	18.877	30.364	0.862	1.00157.17	O
ATOM	5980	NE2	GLN	766	16.720	30.348	1.576	1.00157.17	N
ATOM	5981	C	GLN	766	18.144	34.519	2.423	1.00157.17	C
ATOM	5982	O	GLN	766	19.239	34.384	2.967	1.00157.17	O
ATOM	5983	N	LEU	767	17.655	35.724	2.079	1.00189.89	N
ATOM	5984	CA	LEU	767	18.158	37.000	2.488	1.00189.89	C
ATOM	5985	CB	LEU	767	18.080	38.048	1.372	1.00189.89	C
ATOM	5986	CG	LEU	767	19.062	37.749	0.223	1.00189.89	C
ATOM	5987	CD1	LEU	767	20.520	37.880	0.696	1.00189.89	C

ATOM	5988	CD2	LEU	767	18.775	36.387	-0.429	1.00189.89	C
ATOM	5989	C	LEU	767	17.502	37.551	3.697	1.00189.89	C
ATOM	5990	O	LEU	767	18.166	38.197	4.489	1.00189.89	O
ATOM	5991	N	THR	768	16.180	37.331	3.859	1.00 88.97	N
ATOM	5992	CA	THR	768	15.438	37.944	4.930	1.00 88.97	C
ATOM	5993	CB	THR	768	14.085	37.336	5.112	1.00 88.97	C
ATOM	5994	OG1	THR	768	13.375	37.344	3.891	1.00 88.97	O
ATOM	5995	CG2	THR	768	13.321	38.161	6.159	1.00 88.97	C
ATOM	5996	C	THR	768	16.152	37.583	6.177	1.00 88.97	C
ATOM	5997	O	THR	768	16.521	38.439	6.980	1.00 88.97	O
ATOM	5998	N	LEU	769	16.400	36.276	6.317	1.00 76.37	N
ATOM	5999	CA	LEU	769	17.158	35.776	7.413	1.00 76.37	C
ATOM	6000	CB	LEU	769	17.213	34.248	7.495	1.00 76.37	C
ATOM	6001	CG	LEU	769	18.104	33.779	8.657	1.00 76.37	C
ATOM	6002	CD1	LEU	769	17.550	34.257	10.009	1.00 76.37	C
ATOM	6003	CD2	LEU	769	18.340	32.260	8.609	1.00 76.37	C
ATOM	6004	C	LEU	769	18.565	36.232	7.250	1.00 76.37	C
ATOM	6005	O	LEU	769	19.247	36.562	8.214	1.00 76.37	O
ATOM	6006	N	LEU	770	19.027	36.292	5.995	1.00160.83	N
ATOM	6007	CA	LEU	770	20.396	36.581	5.706	1.00160.83	C
ATOM	6008	CB	LEU	770	20.617	36.722	4.188	1.00160.83	C
ATOM	6009	CG	LEU	770	22.081	36.652	3.720	1.00160.83	C
ATOM	6010	CD1	LEU	770	22.960	37.751	4.325	1.00160.83	C
ATOM	6011	CD2	LEU	770	22.644	35.245	3.941	1.00160.83	C
ATOM	6012	C	LEU	770	20.774	37.890	6.360	1.00160.83	C
ATOM	6013	O	LEU	770	21.835	37.984	6.970	1.00160.83	O
ATOM	6014	N	LEU	771	19.945	38.940	6.180	1.00165.05	N
ATOM	6015	CA	LEU	771	20.056	40.299	6.639	1.00165.05	C
ATOM	6016	CB	LEU	771	19.210	41.221	5.731	1.00165.05	C
ATOM	6017	CG	LEU	771	19.184	42.733	6.039	1.00165.05	C
ATOM	6018	CD1	LEU	771	18.506	43.478	4.882	1.00165.05	C
ATOM	6019	CD2	LEU	771	18.475	43.079	7.360	1.00165.05	C
ATOM	6020	C	LEU	771	19.670	40.509	8.064	1.00165.05	C
ATOM	6021	O	LEU	771	20.372	41.196	8.794	1.00165.05	O
ATOM	6022	N	LEU	772	18.558	39.915	8.513	1.00152.20	N
ATOM	6023	CA	LEU	772	18.011	40.166	9.816	1.00152.20	C
ATOM	6024	CB	LEU	772	16.829	39.204	10.049	1.00152.20	C
ATOM	6025	CG	LEU	772	16.147	39.193	11.430	1.00152.20	C
ATOM	6026	CD1	LEU	772	14.903	38.303	11.366	1.00152.20	C
ATOM	6027	CD2	LEU	772	17.059	38.713	12.572	1.00152.20	C
ATOM	6028	C	LEU	772	19.083	39.861	10.795	1.00152.20	C
ATOM	6029	O	LEU	772	19.159	40.471	11.854	1.00152.20	O
ATOM	6030	N	ALA	773	19.925	38.867	10.510	1.00 58.01	N
ATOM	6031	CA	ALA	773	20.958	38.613	11.464	1.00 58.01	C
ATOM	6032	CB	ALA	773	21.832	37.410	11.077	1.00 58.01	C
ATOM	6033	C	ALA	773	21.867	39.806	11.525	1.00 58.01	C
ATOM	6034	O	ALA	773	22.231	40.282	12.599	1.00 58.01	O
ATOM	6035	N	ILE	774	22.237	40.322	10.341	1.00 69.75	N
ATOM	6036	CA	ILE	774	23.158	41.404	10.147	1.00 69.75	C
ATOM	6037	CB	ILE	774	23.455	41.612	8.696	1.00 69.75	C
ATOM	6038	CG1	ILE	774	24.044	40.321	8.112	1.00 69.75	C
ATOM	6039	CG2	ILE	774	24.388	42.826	8.559	1.00 69.75	C
ATOM	6040	CD1	ILE	774	24.054	40.298	6.588	1.00 69.75	C
ATOM	6041	C	ILE	774	22.668	42.715	10.705	1.00 69.75	C
ATOM	6042	O	ILE	774	23.408	43.389	11.416	1.00 69.75	O
ATOM	6043	N	VAL	775	21.419	43.139	10.424	1.00 68.69	N
ATOM	6044	CA	VAL	775	21.047	44.439	10.919	1.00 68.69	C
ATOM	6045	CB	VAL	775	19.711	44.921	10.424	1.00 68.69	C
ATOM	6046	CG1	VAL	775	19.311	46.182	11.208	1.00 68.69	C
ATOM	6047	CG2	VAL	775	19.837	45.173	8.913	1.00 68.69	C
ATOM	6048	C	VAL	775	21.084	44.438	12.412	1.00 68.69	C
ATOM	6049	O	VAL	775	21.698	45.331	12.991	1.00 68.69	O
ATOM	6050	N	PRO	776	20.503	43.487	13.086	1.00100.25	N
ATOM	6051	CA	PRO	776	20.655	43.541	14.505	1.00100.25	C
ATOM	6052	CD	PRO	776	19.140	43.104	12.761	1.00100.25	C
ATOM	6053	CB	PRO	776	19.690	42.503	15.064	1.00100.25	C
ATOM	6054	CG	PRO	776	18.508	42.616	14.079	1.00100.25	C
ATOM	6055	C	PRO	776	22.068	43.504	14.990	1.00100.25	C
ATOM	6056	O	PRO	776	22.347	44.198	15.961	1.00100.25	O
ATOM	6057	N	ILE	777	22.983	42.749	14.358	1.00115.71	N
ATOM	6058	CA	ILE	777	24.337	42.755	14.842	1.00115.71	C
ATOM	6059	CB	ILE	777	25.221	41.724	14.197	1.00115.71	C
ATOM	6060	CG1	ILE	777	25.362	41.985	12.696	1.00115.71	C
ATOM	6061	CG2	ILE	777	24.655	40.337	14.528	1.00115.71	C

ATOM	6062	CD1	ILE	777	26.361	41.067	12.002	1.00115.71	C
ATOM	6063	C	ILE	777	24.950	44.103	14.600	1.00115.71	C
ATOM	6064	O	ILE	777	25.615	44.653	15.473	1.00115.71	O
ATOM	6065	N	ILE	778	24.743	44.676	13.399	1.00132.64	N
ATOM	6066	CA	ILE	778	25.335	45.940	13.070	1.00132.64	C
ATOM	6067	CB	ILE	778	24.967	46.408	11.695	1.00132.64	C
ATOM	6068	CG1	ILE	778	25.206	45.320	10.647	1.00132.64	C
ATOM	6069	CG2	ILE	778	25.782	47.678	11.408	1.00132.64	C
ATOM	6070	CD1	ILE	778	24.571	45.671	9.301	1.00132.64	C
ATOM	6071	C	ILE	778	24.745	46.966	13.986	1.00132.64	C
ATOM	6072	O	ILE	778	25.454	47.800	14.546	1.00132.64	O
ATOM	6073	N	ALA	779	23.409	46.928	14.155	1.00 36.27	N
ATOM	6074	CA	ALA	779	22.720	47.892	14.967	1.00 36.27	C
ATOM	6075	CB	ALA	779	21.200	47.663	15.003	1.00 36.27	C
ATOM	6076	C	ALA	779	23.223	47.746	16.364	1.00 36.27	C
ATOM	6077	O	ALA	779	23.522	48.731	17.040	1.00 36.27	O
ATOM	6078	N	ILE	780	23.375	46.489	16.816	1.00101.96	N
ATOM	6079	CA	ILE	780	23.840	46.255	18.146	1.00101.96	C
ATOM	6080	CB	ILE	780	23.927	44.807	18.542	1.00101.96	C
ATOM	6081	CG1	ILE	780	22.518	44.203	18.686	1.00101.96	C
ATOM	6082	CG2	ILE	780	24.753	44.721	19.837	1.00101.96	C
ATOM	6083	CD1	ILE	780	21.644	44.918	19.718	1.00101.96	C
ATOM	6084	C	ILE	780	25.189	46.874	18.250	1.00101.96	C
ATOM	6085	O	ILE	780	25.566	47.354	19.314	1.00101.96	O
ATOM	6086	N	ALA	781	25.961	46.866	17.148	1.00 49.67	N
ATOM	6087	CA	ALA	781	27.276	47.434	17.180	1.00 49.67	C
ATOM	6088	CB	ALA	781	27.984	47.373	15.815	1.00 49.67	C
ATOM	6089	C	ALA	781	27.160	48.876	17.555	1.00 49.67	C
ATOM	6090	O	ALA	781	27.878	49.326	18.445	1.00 49.67	O
ATOM	6091	N	GLY	782	26.200	49.616	16.956	1.00 43.87	N
ATOM	6092	CA	GLY	782	26.091	51.033	17.200	1.00 43.87	C
ATOM	6093	C	GLY	782	25.957	51.237	18.678	1.00 43.87	C
ATOM	6094	O	GLY	782	26.612	52.107	19.254	1.00 43.87	O
ATOM	6095	N	VAL	783	25.109	50.421	19.327	1.00 64.18	N
ATOM	6096	CA	VAL	783	24.907	50.493	20.748	1.00 64.18	C
ATOM	6097	CB	VAL	783	23.848	49.534	21.211	1.00 64.18	C
ATOM	6098	CG1	VAL	783	23.846	49.511	22.748	1.00 64.18	C
ATOM	6099	CG2	VAL	783	22.500	49.930	20.586	1.00 64.18	C
ATOM	6100	C	VAL	783	26.159	50.101	21.506	1.00 64.18	C
ATOM	6101	O	VAL	783	26.645	50.857	22.344	1.00 64.18	O
ATOM	6102	N	VAL	784	26.739	48.917	21.200	1.00102.74	N
ATOM	6103	CA	VAL	784	27.841	48.345	21.943	1.00102.74	C
ATOM	6104	CB	VAL	784	28.226	46.976	21.458	1.00102.74	C
ATOM	6105	CG1	VAL	784	28.716	47.090	20.005	1.00102.74	C
ATOM	6106	CG2	VAL	784	29.274	46.391	22.419	1.00102.74	C
ATOM	6107	C	VAL	784	29.057	49.212	21.862	1.00102.74	C
ATOM	6108	O	VAL	784	29.773	49.374	22.850	1.00102.74	O
ATOM	6109	N	GLU	785	29.338	49.779	20.675	1.00 67.42	N
ATOM	6110	CA	GLU	785	30.483	50.627	20.525	1.00 67.42	C
ATOM	6111	CB	GLU	785	30.576	51.234	19.123	1.00 67.42	C
ATOM	6112	CG	GLU	785	31.696	52.261	19.003	1.00 67.42	C
ATOM	6113	CD	GLU	785	31.328	53.190	17.860	1.00 67.42	C
ATOM	6114	OE1	GLU	785	31.268	52.714	16.696	1.00 67.42	O
ATOM	6115	OE2	GLU	785	31.087	54.393	18.147	1.00 67.42	O
ATOM	6116	C	GLU	785	30.285	51.783	21.442	1.00 67.42	C
ATOM	6117	O	GLU	785	31.183	52.174	22.185	1.00 67.42	O
ATOM	6118	N	MET	786	29.056	52.322	21.440	1.00133.37	N
ATOM	6119	CA	MET	786	28.713	53.459	22.237	1.00133.37	C
ATOM	6120	CB	MET	786	27.199	53.685	22.267	1.00133.37	C
ATOM	6121	CG	MET	786	26.779	54.572	23.437	1.00133.37	C
ATOM	6122	SD	MET	786	25.117	54.216	24.075	1.00133.37	S
ATOM	6123	CE	MET	786	25.635	52.702	24.937	1.00133.37	C
ATOM	6124	C	MET	786	29.012	53.115	23.660	1.00133.37	C
ATOM	6125	O	MET	786	29.637	53.897	24.373	1.00133.37	O
ATOM	6126	N	LYS	787	28.582	51.914	24.093	1.00160.78	N
ATOM	6127	CA	LYS	787	28.678	51.503	25.467	1.00160.78	C
ATOM	6128	CB	LYS	787	28.119	50.074	25.668	1.00160.78	C
ATOM	6129	CG	LYS	787	28.189	49.501	27.094	1.00160.78	C
ATOM	6130	CD	LYS	787	29.591	49.085	27.571	1.00160.78	C
ATOM	6131	CE	LYS	787	29.853	47.573	27.519	1.00160.78	C
ATOM	6132	NZ	LYS	787	29.373	46.920	28.758	1.00160.78	N
ATOM	6133	C	LYS	787	30.106	51.485	25.942	1.00160.78	C
ATOM	6134	O	LYS	787	30.424	52.131	26.938	1.00160.78	O
ATOM	6135	N	MET	788	31.020	50.779	25.241	1.00 99.42	N

ATOM	6136	CA	MET	788	32.372	50.677	25.734	1.00	99.42	C
ATOM	6137	CB	MET	788	33.244	49.613	25.040	1.00	99.42	C
ATOM	6138	CG	MET	788	34.495	49.295	25.868	1.00	99.42	C
ATOM	6139	SD	MET	788	35.306	47.704	25.520	1.00	99.42	S
ATOM	6140	CE	MET	788	36.035	48.188	23.930	1.00	99.42	C
ATOM	6141	C	MET	788	33.033	52.013	25.656	1.00	99.42	C
ATOM	6142	O	MET	788	33.877	52.353	26.484	1.00	99.42	O
ATOM	6143	N	LEU	789	32.650	52.802	24.636	1.00	124.12	N
ATOM	6144	CA	LEU	789	33.149	54.128	24.412	1.00	124.12	C
ATOM	6145	CB	LEU	789	32.458	54.763	23.184	1.00	124.12	C
ATOM	6146	CG	LEU	789	32.864	56.198	22.771	1.00	124.12	C
ATOM	6147	CD1	LEU	789	32.100	56.612	21.503	1.00	124.12	C
ATOM	6148	CD2	LEU	789	32.676	57.238	23.889	1.00	124.12	C
ATOM	6149	C	LEU	789	32.790	54.894	25.647	1.00	124.12	C
ATOM	6150	O	LEU	789	33.565	55.731	26.105	1.00	124.12	O
ATOM	6151	N	SER	790	31.592	54.629	26.208	1.00	51.72	N
ATOM	6152	CA	SER	790	31.104	55.299	27.382	1.00	51.72	C
ATOM	6153	CB	SER	790	29.678	54.853	27.761	1.00	51.72	C
ATOM	6154	OG	SER	790	28.766	55.168	26.720	1.00	51.72	O
ATOM	6155	C	SER	790	31.976	54.971	28.552	1.00	51.72	C
ATOM	6156	O	SER	790	32.388	55.861	29.294	1.00	51.72	O
ATOM	6157	N	GLY	791	32.309	53.678	28.735	1.00	26.34	N
ATOM	6158	CA	GLY	791	33.039	53.299	29.907	1.00	26.34	C
ATOM	6159	C	GLY	791	34.343	54.021	29.932	1.00	26.34	C
ATOM	6160	O	GLY	791	34.723	54.586	30.955	1.00	26.34	O
ATOM	6161	N	GLN	792	35.071	54.026	28.803	1.00	69.87	N
ATOM	6162	CA	GLN	792	36.340	54.688	28.804	1.00	69.87	C
ATOM	6163	CB	GLN	792	37.189	54.392	27.557	1.00	69.87	C
ATOM	6164	CG	GLN	792	37.658	52.934	27.487	1.00	69.87	C
ATOM	6165	CD	GLN	792	38.589	52.667	28.664	1.00	69.87	C
ATOM	6166	OE1	GLN	792	38.518	51.617	29.301	1.00	69.87	O
ATOM	6167	NE2	GLN	792	39.492	53.639	28.963	1.00	69.87	N
ATOM	6168	C	GLN	792	36.151	56.174	28.931	1.00	69.87	C
ATOM	6169	O	GLN	792	36.882	56.814	29.680	1.00	69.87	O
ATOM	6170	N	ALA	793	35.156	56.769	28.233	1.00	65.81	N
ATOM	6171	CA	ALA	793	34.963	58.204	28.241	1.00	65.81	C
ATOM	6172	CB	ALA	793	33.781	58.642	27.360	1.00	65.81	C
ATOM	6173	C	ALA	793	34.663	58.637	29.646	1.00	65.81	C
ATOM	6174	O	ALA	793	35.184	59.648	30.109	1.00	65.81	O
ATOM	6175	N	LEU	794	33.807	57.874	30.355	1.00	67.48	N
ATOM	6176	CA	LEU	794	33.376	58.164	31.697	1.00	67.48	C
ATOM	6177	CB	LEU	794	32.360	57.105	32.167	1.00	67.48	C
ATOM	6178	CG	LEU	794	31.844	57.268	33.606	1.00	67.48	C
ATOM	6179	CD1	LEU	794	30.996	58.541	33.756	1.00	67.48	C
ATOM	6180	CD2	LEU	794	31.118	55.997	34.079	1.00	67.48	C
ATOM	6181	C	LEU	794	34.528	58.093	32.645	1.00	67.48	C
ATOM	6182	O	LEU	794	34.766	59.016	33.421	1.00	67.48	O
ATOM	6183	N	LYS	795	35.295	56.992	32.584	1.00	160.40	N
ATOM	6184	CA	LYS	795	36.353	56.802	33.523	1.00	160.40	C
ATOM	6185	CB	LYS	795	36.934	55.374	33.472	1.00	160.40	C
ATOM	6186	CG	LYS	795	37.609	54.964	32.166	1.00	160.40	C
ATOM	6187	CD	LYS	795	39.093	55.315	32.099	1.00	160.40	C
ATOM	6188	CE	LYS	795	39.941	54.363	32.948	1.00	160.40	C
ATOM	6189	NZ	LYS	795	41.369	54.500	32.596	1.00	160.40	N
ATOM	6190	C	LYS	795	37.394	57.862	33.321	1.00	160.40	C
ATOM	6191	O	LYS	795	37.939	58.371	34.296	1.00	160.40	O
ATOM	6192	N	ASP	796	37.693	58.235	32.058	1.00	106.60	N
ATOM	6193	CA	ASP	796	38.685	59.248	31.797	1.00	106.60	C
ATOM	6194	CB	ASP	796	39.062	59.371	30.315	1.00	106.60	C
ATOM	6195	CG	ASP	796	40.503	59.865	30.279	1.00	106.60	C
ATOM	6196	OD1	ASP	796	41.340	59.278	31.016	1.00	106.60	O
ATOM	6197	OD2	ASP	796	40.786	60.836	29.528	1.00	106.60	O
ATOM	6198	C	ASP	796	38.166	60.564	32.278	1.00	106.60	C
ATOM	6199	O	ASP	796	38.934	61.387	32.771	1.00	106.60	O
ATOM	6200	N	LYS	797	36.843	60.795	32.158	1.00	98.41	N
ATOM	6201	CA	LYS	797	36.288	62.031	32.629	1.00	98.41	C
ATOM	6202	CB	LYS	797	34.750	62.078	32.633	1.00	98.41	C
ATOM	6203	CG	LYS	797	34.038	62.169	31.286	1.00	98.41	C
ATOM	6204	CD	LYS	797	32.554	61.835	31.451	1.00	98.41	C
ATOM	6205	CE	LYS	797	31.684	62.020	30.208	1.00	98.41	C
ATOM	6206	NZ	LYS	797	30.290	61.627	30.521	1.00	98.41	N
ATOM	6207	C	LYS	797	36.628	62.049	34.085	1.00	98.41	C
ATOM	6208	O	LYS	797	36.847	63.116	34.643	1.00	98.41	O
ATOM	6209	N	LYS	798	36.620	60.862	34.738	1.00	141.52	N

ATOM	6210	CA	LYS	798	36.901	60.720	36.145	1.00141.52	C
ATOM	6211	CB	LYS	798	36.610	59.301	36.665	1.00141.52	C
ATOM	6212	CG	LYS	798	35.136	58.894	36.591	1.00141.52	C
ATOM	6213	CD	LYS	798	34.194	59.756	37.436	1.00141.52	C
ATOM	6214	CE	LYS	798	33.365	60.751	36.622	1.00141.52	C
ATOM	6215	NZ	LYS	798	32.434	61.480	37.512	1.00141.52	N
ATOM	6216	C	LYS	798	38.339	61.019	36.492	1.00141.52	C
ATOM	6217	O	LYS	798	38.609	61.810	37.391	1.00141.52	O
ATOM	6218	N	GLU	799	39.319	60.410	35.798	1.00 82.20	N
ATOM	6219	CA	GLU	799	40.689	60.629	36.186	1.00 82.20	C
ATOM	6220	CB	GLU	799	41.662	59.802	35.331	1.00 82.20	C
ATOM	6221	CG	GLU	799	41.488	58.294	35.521	1.00 82.20	C
ATOM	6222	CD	GLU	799	42.253	57.576	34.420	1.00 82.20	C
ATOM	6223	OE1	GLU	799	42.879	58.272	33.576	1.00 82.20	O
ATOM	6224	OE2	GLU	799	42.216	56.319	34.408	1.00 82.20	O
ATOM	6225	C	GLU	799	41.005	62.073	35.971	1.00 82.20	C
ATOM	6226	O	GLU	799	41.546	62.742	36.850	1.00 82.20	O
ATOM	6227	N	LEU	800	40.627	62.592	34.790	1.00145.50	N
ATOM	6228	CA	LEU	800	40.857	63.956	34.421	1.00145.50	C
ATOM	6229	CB	LEU	800	40.383	64.276	32.983	1.00145.50	C
ATOM	6230	CG	LEU	800	38.855	64.216	32.733	1.00145.50	C
ATOM	6231	CD1	LEU	800	38.111	65.438	33.300	1.00145.50	C
ATOM	6232	CD2	LEU	800	38.539	63.985	31.246	1.00145.50	C
ATOM	6233	C	LEU	800	40.080	64.779	35.375	1.00145.50	C
ATOM	6234	O	LEU	800	40.525	65.856	35.758	1.00145.50	O
ATOM	6235	N	GLU	801	38.889	64.299	35.776	1.00 92.15	N
ATOM	6236	CA	GLU	801	38.073	65.083	36.648	1.00 92.15	C
ATOM	6237	CB	GLU	801	36.665	64.544	36.975	1.00 92.15	C
ATOM	6238	CG	GLU	801	36.608	63.526	38.111	1.00 92.15	C
ATOM	6239	CD	GLU	801	35.143	63.252	38.409	1.00 92.15	C
ATOM	6240	OE1	GLU	801	34.277	63.847	37.715	1.00 92.15	O
ATOM	6241	OE2	GLU	801	34.870	62.445	39.338	1.00 92.15	O
ATOM	6242	C	GLU	801	38.806	65.182	37.926	1.00 92.15	C
ATOM	6243	O	GLU	801	38.677	66.172	38.630	1.00 92.15	O
ATOM	6244	N	GLY	802	39.584	64.153	38.293	1.00 63.90	N
ATOM	6245	CA	GLY	802	40.274	64.280	39.531	1.00 63.90	C
ATOM	6246	C	GLY	802	41.192	65.459	39.448	1.00 63.90	C
ATOM	6247	O	GLY	802	41.178	66.320	40.324	1.00 63.90	O
ATOM	6248	N	SER	803	41.998	65.534	38.373	1.00 71.76	N
ATOM	6249	CA	SER	803	42.933	66.607	38.222	1.00 71.76	C
ATOM	6250	CB	SER	803	43.856	66.431	37.010	1.00 71.76	C
ATOM	6251	OG	SER	803	44.630	65.250	37.155	1.00 71.76	O
ATOM	6252	C	SER	803	42.217	67.909	38.025	1.00 71.76	C
ATOM	6253	O	SER	803	42.335	68.817	38.840	1.00 71.76	O
ATOM	6254	N	GLY	804	41.403	68.001	36.955	1.00 81.26	N
ATOM	6255	CA	GLY	804	40.744	69.203	36.528	1.00 81.26	C
ATOM	6256	C	GLY	804	39.849	69.701	37.584	1.00 81.26	C
ATOM	6257	O	GLY	804	39.711	70.910	37.741	1.00 81.26	O
ATOM	6258	N	LYS	805	39.190	68.790	38.315	1.00153.68	N
ATOM	6259	CA	LYS	805	38.299	69.271	39.314	1.00153.68	C
ATOM	6260	CB	LYS	805	37.609	68.163	40.127	1.00153.68	C
ATOM	6261	CG	LYS	805	36.272	68.530	40.767	1.00153.68	C
ATOM	6262	CD	LYS	805	35.517	67.286	41.245	1.00153.68	C
ATOM	6263	CE	LYS	805	34.048	67.527	41.589	1.00153.68	C
ATOM	6264	NZ	LYS	805	33.217	67.389	40.372	1.00153.68	N
ATOM	6265	C	LYS	805	39.178	70.017	40.261	1.00153.68	C
ATOM	6266	O	LYS	805	38.772	71.036	40.809	1.00153.68	O
ATOM	6267	N	ILE	806	40.410	69.507	40.484	1.00226.88	N
ATOM	6268	CA	ILE	806	41.324	70.165	41.364	1.00226.88	C
ATOM	6269	CB	ILE	806	42.528	69.406	41.778	1.00226.88	C
ATOM	6270	CG1	ILE	806	42.196	67.991	42.240	1.00226.88	C
ATOM	6271	CG2	ILE	806	43.040	70.224	42.965	1.00226.88	C
ATOM	6272	CD1	ILE	806	43.438	67.121	42.419	1.00226.88	C
ATOM	6273	C	ILE	806	41.858	71.434	40.789	1.00226.88	C
ATOM	6274	O	ILE	806	42.075	72.410	41.501	1.00226.88	O
ATOM	6275	N	ALA	807	42.163	71.443	39.487	1.00104.12	N
ATOM	6276	CA	ALA	807	42.688	72.639	38.907	1.00104.12	C
ATOM	6277	CB	ALA	807	43.024	72.496	37.414	1.00104.12	C
ATOM	6278	C	ALA	807	41.632	73.682	39.064	1.00104.12	C
ATOM	6279	O	ALA	807	41.945	74.849	39.283	1.00104.12	O
ATOM	6280	N	THR	808	40.347	73.291	38.912	1.00205.49	N
ATOM	6281	CA	THR	808	39.277	74.221	39.125	1.00205.49	C
ATOM	6282	CB	THR	808	37.922	73.813	38.618	1.00205.49	C
ATOM	6283	OG1	THR	808	37.489	72.606	39.218	1.00205.49	O

ATOM	6284	CG2	THR	808	37.987	73.677	37.093	1.00205.49	C
ATOM	6285	C	THR	808	39.196	74.498	40.567	1.00205.49	C
ATOM	6286	O	THR	808	38.780	75.582	40.950	1.00205.49	O
ATOM	6287	N	GLU	809	39.573	73.522	41.413	1.00151.66	N
ATOM	6288	CA	GLU	809	39.497	73.795	42.806	1.00151.66	C
ATOM	6289	CB	GLU	809	40.017	72.675	43.724	1.00151.66	C
ATOM	6290	CG	GLU	809	39.825	73.024	45.206	1.00151.66	C
ATOM	6291	CD	GLU	809	40.366	71.893	46.071	1.00151.66	C
ATOM	6292	OE1	GLU	809	41.439	71.341	45.712	1.00151.66	O
ATOM	6293	OE2	GLU	809	39.718	71.570	47.104	1.00151.66	O
ATOM	6294	C	GLU	809	40.362	74.980	43.053	1.00151.66	C
ATOM	6295	O	GLU	809	39.919	75.917	43.705	1.00151.66	O
ATOM	6296	N	ALA	810	41.593	74.985	42.508	1.00141.05	N
ATOM	6297	CA	ALA	810	42.466	76.100	42.723	1.00141.05	C
ATOM	6298	CB	ALA	810	43.900	75.821	42.245	1.00141.05	C
ATOM	6299	C	ALA	810	42.000	77.340	42.018	1.00141.05	C
ATOM	6300	O	ALA	810	41.755	78.367	42.638	1.00141.05	O
ATOM	6301	N	ILE	811	41.770	77.277	40.702	1.00213.23	N
ATOM	6302	CA	ILE	811	41.439	78.481	40.002	1.00213.23	C
ATOM	6303	CB	ILE	811	41.313	78.256	38.536	1.00213.23	C
ATOM	6304	CG1	ILE	811	40.702	79.503	37.914	1.00213.23	C
ATOM	6305	CG2	ILE	811	40.544	76.963	38.254	1.00213.23	C
ATOM	6306	CD1	ILE	811	40.665	79.430	36.398	1.00213.23	C
ATOM	6307	C	ILE	811	40.143	79.033	40.513	1.00213.23	C
ATOM	6308	O	ILE	811	40.005	80.240	40.701	1.00213.23	O
ATOM	6309	N	GLU	812	39.152	78.159	40.752	1.00167.37	N
ATOM	6310	CA	GLU	812	37.858	78.572	41.206	1.00167.37	C
ATOM	6311	CB	GLU	812	36.790	77.463	41.305	1.00167.37	C
ATOM	6312	CG	GLU	812	36.841	76.608	42.573	1.00167.37	C
ATOM	6313	CD	GLU	812	35.718	75.584	42.474	1.00167.37	C
ATOM	6314	OE1	GLU	812	34.531	76.007	42.454	1.00167.37	O
ATOM	6315	OE2	GLU	812	36.032	74.366	42.412	1.00167.37	O
ATOM	6316	C	GLU	812	38.045	79.128	42.551	1.00167.37	C
ATOM	6317	O	GLU	812	37.267	79.959	43.014	1.00167.37	O
ATOM	6318	N	ASN	813	39.069	78.622	43.241	1.00266.52	N
ATOM	6319	CA	ASN	813	39.322	79.082	44.557	1.00266.52	C
ATOM	6320	CB	ASN	813	39.658	77.958	45.550	1.00266.52	C
ATOM	6321	CG	ASN	813	38.442	77.065	45.713	1.00266.52	C
ATOM	6322	OD1	ASN	813	37.310	77.463	45.455	1.00266.52	O
ATOM	6323	ND2	ASN	813	38.691	75.803	46.147	1.00266.52	N
ATOM	6324	C	ASN	813	40.535	79.934	44.510	1.00266.52	C
ATOM	6325	O	ASN	813	41.557	79.533	45.055	1.00266.52	O
ATOM	6326	N	PHE	814	40.425	81.206	44.043	1.00200.34	N
ATOM	6327	CA	PHE	814	41.511	82.163	43.944	1.00200.34	C
ATOM	6328	CB	PHE	814	41.149	83.535	43.332	1.00200.34	C
ATOM	6329	CG	PHE	814	40.300	84.352	44.253	1.00200.34	C
ATOM	6330	CD1	PHE	814	40.860	85.113	45.259	1.00200.34	C
ATOM	6331	CD2	PHE	814	38.935	84.390	44.088	1.00200.34	C
ATOM	6332	CE1	PHE	814	40.076	85.869	46.096	1.00200.34	C
ATOM	6333	CE2	PHE	814	38.144	85.146	44.919	1.00200.34	C
ATOM	6334	CZ	PHE	814	38.713	85.885	45.928	1.00200.34	C
ATOM	6335	C	PHE	814	41.983	82.408	45.336	1.00200.34	C
ATOM	6336	O	PHE	814	43.010	83.034	45.575	1.00200.34	O
ATOM	6337	N	ARG	815	41.182	81.906	46.285	1.00359.87	N
ATOM	6338	CA	ARG	815	41.288	81.874	47.691	1.00359.87	C
ATOM	6339	CB	ARG	815	40.162	81.106	48.400	1.00359.87	C
ATOM	6340	CG	ARG	815	38.852	81.884	48.430	1.00359.87	C
ATOM	6341	CD	ARG	815	38.243	82.077	47.045	1.00359.87	C
ATOM	6342	NE	ARG	815	37.448	80.856	46.737	1.00359.87	N
ATOM	6343	CZ	ARG	815	36.696	80.821	45.601	1.00359.87	C
ATOM	6344	NH1	ARG	815	36.693	81.887	44.754	1.00359.87	N
ATOM	6345	NH2	ARG	815	35.937	79.729	45.309	1.00359.87	N
ATOM	6346	C	ARG	815	42.578	81.222	48.098	1.00359.87	C
ATOM	6347	O	ARG	815	42.766	80.891	49.263	1.00359.87	O
ATOM	6348	N	THR	816	43.325	80.724	47.111	1.00209.46	N
ATOM	6349	CA	THR	816	44.677	80.270	47.191	1.00209.46	C
ATOM	6350	CB	THR	816	45.002	79.515	45.942	1.00209.46	C
ATOM	6351	OG1	THR	816	44.237	78.326	45.854	1.00209.46	O
ATOM	6352	CG2	THR	816	46.497	79.235	45.887	1.00209.46	C
ATOM	6353	C	THR	816	45.659	81.401	47.219	1.00209.46	C
ATOM	6354	O	THR	816	46.449	81.529	48.149	1.00209.46	O
ATOM	6355	N	VAL	817	45.553	82.322	46.226	1.00177.16	N
ATOM	6356	CA	VAL	817	46.443	83.428	45.985	1.00177.16	C
ATOM	6357	CB	VAL	817	46.062	84.289	44.814	1.00177.16	C

ATOM	6358	CG1	VAL	817	44.788	85.076	45.159	1.00177.16	C
ATOM	6359	CG2	VAL	817	47.259	85.191	44.472	1.00177.16	C
ATOM	6360	C	VAL	817	46.322	84.247	47.201	1.00177.16	C
ATOM	6361	O	VAL	817	47.181	85.069	47.517	1.00177.16	O
ATOM	6362	N	VAL	818	45.194	84.052	47.898	1.00212.61	N
ATOM	6363	CA	VAL	818	44.992	84.756	49.098	1.00212.61	C
ATOM	6364	CB	VAL	818	43.707	84.450	49.811	1.00212.61	C
ATOM	6365	CG1	VAL	818	43.792	83.084	50.500	1.00212.61	C
ATOM	6366	CG2	VAL	818	43.433	85.608	50.784	1.00212.61	C
ATOM	6367	C	VAL	818	46.151	84.479	50.003	1.00212.61	C
ATOM	6368	O	VAL	818	46.634	85.406	50.642	1.00212.61	O
ATOM	6369	N	SER	819	46.574	83.203	50.153	1.00125.39	N
ATOM	6370	CA	SER	819	47.732	82.836	50.924	1.00125.39	C
ATOM	6371	CB	SER	819	47.558	81.461	51.590	1.00125.39	C
ATOM	6372	OG	SER	819	47.331	80.464	50.606	1.00125.39	O
ATOM	6373	C	SER	819	48.979	82.794	50.073	1.00125.39	C
ATOM	6374	O	SER	819	50.064	83.163	50.517	1.00125.39	O
ATOM	6375	N	LEU	820	48.850	82.286	48.828	1.00134.32	N
ATOM	6376	CA	LEU	820	49.907	82.151	47.857	1.00134.32	C
ATOM	6377	CB	LEU	820	50.680	83.466	47.682	1.00134.32	C
ATOM	6378	CG	LEU	820	51.713	83.444	46.546	1.00134.32	C
ATOM	6379	CD1	LEU	820	51.036	83.565	45.171	1.00134.32	C
ATOM	6380	CD2	LEU	820	52.815	84.482	46.781	1.00134.32	C
ATOM	6381	C	LEU	820	50.886	81.125	48.355	1.00134.32	C
ATOM	6382	O	LEU	820	51.884	80.811	47.707	1.00134.32	O
ATOM	6383	N	THR	821	50.551	80.517	49.497	1.00238.04	N
ATOM	6384	CA	THR	821	51.349	79.598	50.249	1.00238.04	C
ATOM	6385	CB	THR	821	50.742	79.376	51.612	1.00238.04	C
ATOM	6386	OG1	THR	821	50.501	80.632	52.227	1.00238.04	O
ATOM	6387	CG2	THR	821	51.731	78.618	52.502	1.00238.04	C
ATOM	6388	C	THR	821	51.554	78.266	49.533	1.00238.04	C
ATOM	6389	O	THR	821	52.246	77.424	50.095	1.00238.04	O
ATOM	6390	N	GLN	822	50.734	77.916	48.503	1.00239.62	N
ATOM	6391	CA	GLN	822	50.781	76.747	47.622	1.00239.62	C
ATOM	6392	CB	GLN	822	49.427	76.028	47.551	1.00239.62	C
ATOM	6393	CG	GLN	822	48.310	76.902	46.982	1.00239.62	C
ATOM	6394	CD	GLN	822	47.732	77.700	48.141	1.00239.62	C
ATOM	6395	OE1	GLN	822	47.926	78.910	48.243	1.00239.62	O
ATOM	6396	NE2	GLN	822	47.002	76.995	49.047	1.00239.62	N
ATOM	6397	C	GLN	822	51.261	76.839	46.175	1.00239.62	C
ATOM	6398	O	GLN	822	51.634	75.804	45.611	1.00239.62	O
ATOM	6399	N	GLU	823	51.293	78.020	45.523	1.00242.83	N
ATOM	6400	CA	GLU	823	51.076	78.133	44.084	1.00242.83	C
ATOM	6401	CB	GLU	823	51.577	79.482	43.532	1.00242.83	C
ATOM	6402	CG	GLU	823	51.084	80.732	44.279	1.00242.83	C
ATOM	6403	CD	GLU	823	49.561	80.787	44.388	1.00242.83	C
ATOM	6404	OE1	GLU	823	48.920	79.728	44.624	1.00242.83	O
ATOM	6405	OE2	GLU	823	49.019	81.918	44.270	1.00242.83	O
ATOM	6406	C	GLU	823	51.679	77.072	43.187	1.00242.83	C
ATOM	6407	O	GLU	823	50.954	76.217	42.666	1.00242.83	O
ATOM	6408	N	GLN	824	53.003	77.037	42.991	1.00110.84	N
ATOM	6409	CA	GLN	824	53.514	76.041	42.087	1.00110.84	C
ATOM	6410	CB	GLN	824	55.029	76.159	41.863	1.00110.84	C
ATOM	6411	CG	GLN	824	55.578	75.131	40.871	1.00110.84	C
ATOM	6412	CD	GLN	824	55.040	75.475	39.488	1.00110.84	C
ATOM	6413	OE1	GLN	824	55.517	76.399	38.831	1.00110.84	O
ATOM	6414	NE2	GLN	824	54.011	74.713	39.032	1.00110.84	N
ATOM	6415	C	GLN	824	53.245	74.714	42.696	1.00110.84	C
ATOM	6416	O	GLN	824	52.859	73.772	42.001	1.00110.84	O
ATOM	6417	N	LYS	825	53.370	74.662	44.039	1.00116.44	N
ATOM	6418	CA	LYS	825	53.208	73.450	44.785	1.00116.44	C
ATOM	6419	CB	LYS	825	53.159	73.643	46.308	1.00116.44	C
ATOM	6420	CG	LYS	825	52.872	72.335	47.043	1.00116.44	C
ATOM	6421	CD	LYS	825	52.868	72.444	48.563	1.00116.44	C
ATOM	6422	CE	LYS	825	52.315	71.190	49.246	1.00116.44	C
ATOM	6423	NZ	LYS	825	52.480	71.281	50.713	1.00116.44	N
ATOM	6424	C	LYS	825	51.891	72.892	44.374	1.00116.44	C
ATOM	6425	O	LYS	825	51.713	71.681	44.268	1.00116.44	O
ATOM	6426	N	PHE	826	50.930	73.789	44.127	1.00189.38	N
ATOM	6427	CA	PHE	826	49.609	73.378	43.786	1.00189.38	C
ATOM	6428	CB	PHE	826	48.671	74.594	43.859	1.00189.38	C
ATOM	6429	CG	PHE	826	47.341	74.125	44.318	1.00189.38	C
ATOM	6430	CD1	PHE	826	47.207	73.735	45.632	1.00189.38	C
ATOM	6431	CD2	PHE	826	46.256	74.048	43.478	1.00189.38	C

ATOM	6432	CE1	PHE	826	46.004	73.291	46.118	1.00189.38	C
ATOM	6433	CE2	PHE	826	45.047	73.606	43.963	1.00189.38	C
ATOM	6434	CZ	PHE	826	44.920	73.231	45.280	1.00189.38	C
ATOM	6435	C	PHE	826	49.479	72.721	42.436	1.00189.38	C
ATOM	6436	O	PHE	826	49.267	71.510	42.346	1.00189.38	O
ATOM	6437	N	GLU	827	49.740	73.476	41.345	1.00149.27	N
ATOM	6438	CA	GLU	827	49.540	72.982	40.000	1.00149.27	C
ATOM	6439	CB	GLU	827	49.961	73.992	38.917	1.00149.27	C
ATOM	6440	CG	GLU	827	49.063	75.228	38.836	1.00149.27	C
ATOM	6441	CD	GLU	827	47.763	74.843	38.141	1.00149.27	C
ATOM	6442	OE1	GLU	827	47.610	73.647	37.773	1.00149.27	O
ATOM	6443	OE2	GLU	827	46.902	75.747	37.969	1.00149.27	O
ATOM	6444	C	GLU	827	50.436	71.809	39.884	1.00149.27	C
ATOM	6445	O	GLU	827	50.199	70.897	39.092	1.00149.27	O
ATOM	6446	N	HIS	828	51.510	71.842	40.690	1.00146.14	N
ATOM	6447	CA	HIS	828	52.486	70.802	40.696	1.00146.14	C
ATOM	6448	ND1	HIS	828	55.490	69.593	40.795	1.00146.14	N
ATOM	6449	CG	HIS	828	54.564	69.889	41.770	1.00146.14	C
ATOM	6450	CB	HIS	828	53.609	71.042	41.712	1.00146.14	C
ATOM	6451	NE2	HIS	828	55.707	68.038	42.370	1.00146.14	N
ATOM	6452	CD2	HIS	828	54.710	68.929	42.724	1.00146.14	C
ATOM	6453	CE1	HIS	828	56.146	68.476	41.204	1.00146.14	C
ATOM	6454	C	HIS	828	51.863	69.495	41.048	1.00146.14	C
ATOM	6455	O	HIS	828	52.086	68.501	40.359	1.00146.14	O
ATOM	6456	N	MET	829	51.023	69.472	42.097	1.00101.28	N
ATOM	6457	CA	MET	829	50.451	68.231	42.535	1.00101.28	C
ATOM	6458	CB	MET	829	49.481	68.429	43.710	1.00101.28	C
ATOM	6459	CG	MET	829	50.182	68.953	44.965	1.00101.28	C
ATOM	6460	SD	MET	829	49.072	69.443	46.315	1.00101.28	S
ATOM	6461	CE	MET	829	50.431	69.794	47.464	1.00101.28	C
ATOM	6462	C	MET	829	49.682	67.687	41.370	1.00101.28	C
ATOM	6463	O	MET	829	49.638	66.482	41.122	1.00101.28	O
ATOM	6464	N	TYR	830	49.059	68.599	40.612	1.00152.09	N
ATOM	6465	CA	TYR	830	48.264	68.243	39.473	1.00152.09	C
ATOM	6466	CB	TYR	830	47.384	69.406	39.000	1.00152.09	C
ATOM	6467	CG	TYR	830	46.872	69.794	40.334	1.00152.09	C
ATOM	6468	CD1	TYR	830	46.285	68.837	41.128	1.00152.09	C
ATOM	6469	CD2	TYR	830	46.984	71.083	40.794	1.00152.09	C
ATOM	6470	CE1	TYR	830	45.831	69.153	42.383	1.00152.09	C
ATOM	6471	CE2	TYR	830	46.530	71.406	42.050	1.00152.09	C
ATOM	6472	CZ	TYR	830	45.961	70.439	42.845	1.00152.09	C
ATOM	6473	OH	TYR	830	45.499	70.760	44.138	1.00152.09	O
ATOM	6474	C	TYR	830	49.131	67.718	38.382	1.00152.09	C
ATOM	6475	O	TYR	830	48.688	66.912	37.566	1.00152.09	O
ATOM	6476	N	ALA	831	50.388	68.187	38.312	1.00 64.81	N
ATOM	6477	CA	ALA	831	51.242	67.719	37.259	1.00 64.81	C
ATOM	6478	CB	ALA	831	52.667	68.288	37.359	1.00 64.81	C
ATOM	6479	C	ALA	831	51.335	66.233	37.387	1.00 64.81	C
ATOM	6480	O	ALA	831	51.344	65.511	36.390	1.00 64.81	O
ATOM	6481	N	GLN	832	51.405	65.739	38.634	1.00 69.58	N
ATOM	6482	CA	GLN	832	51.523	64.327	38.853	1.00 69.58	C
ATOM	6483	CB	GLN	832	51.661	63.985	40.344	1.00 69.58	C
ATOM	6484	CG	GLN	832	52.820	64.693	41.046	1.00 69.58	C
ATOM	6485	CD	GLN	832	54.122	64.177	40.458	1.00 69.58	C
ATOM	6486	OE1	GLN	832	54.341	64.247	39.250	1.00 69.58	O
ATOM	6487	OE2	GLN	832	55.013	63.642	41.335	1.00 69.58	N
ATOM	6488	C	GLN	832	50.283	63.631	38.393	1.00 69.58	C
ATOM	6489	O	GLN	832	50.333	62.627	37.680	1.00 69.58	O
ATOM	6490	N	SER	833	49.122	64.193	38.767	1.00103.93	N
ATOM	6491	CA	SER	833	47.859	63.567	38.512	1.00103.93	C
ATOM	6492	CB	SER	833	46.688	64.490	38.872	1.00103.93	C
ATOM	6493	OG	SER	833	46.844	64.964	40.200	1.00103.93	O
ATOM	6494	C	SER	833	47.759	63.320	37.054	1.00103.93	C
ATOM	6495	O	SER	833	47.540	62.193	36.627	1.00103.93	O
ATOM	6496	N	LEU	834	48.018	64.359	36.247	1.00132.75	N
ATOM	6497	CA	LEU	834	47.849	64.245	34.831	1.00132.75	C
ATOM	6498	CB	LEU	834	48.258	65.517	34.056	1.00132.75	C
ATOM	6499	CG	LEU	834	47.252	66.692	34.081	1.00132.75	C
ATOM	6500	CD1	LEU	834	46.016	66.393	33.217	1.00132.75	C
ATOM	6501	CD2	LEU	834	46.882	67.110	35.512	1.00132.75	C
ATOM	6502	C	LEU	834	48.692	63.132	34.323	1.00132.75	C
ATOM	6503	O	LEU	834	48.237	62.381	33.461	1.00132.75	O
ATOM	6504	N	GLN	835	49.898	62.952	34.901	1.00142.69	N
ATOM	6505	CA	GLN	835	50.848	62.010	34.374	1.00142.69	C

ATOM	6506	CB	GLN	835	51.978	61.689	35.351	1.00142.69	C
ATOM	6507	CG	GLN	835	52.809	62.865	35.823	1.00142.69	C
ATOM	6508	CD	GLN	835	53.740	62.282	36.872	1.00142.69	C
ATOM	6509	OE1	GLN	835	53.347	61.429	37.665	1.00142.69	O
ATOM	6510	NE2	GLN	835	55.016	62.743	36.872	1.00142.69	N
ATOM	6511	C	GLN	835	50.201	60.674	34.219	1.00142.69	C
ATOM	6512	O	GLN	835	50.273	60.066	33.152	1.00142.69	O
ATOM	6513	N	VAL	836	49.527	60.185	35.272	1.00151.37	N
ATOM	6514	CA	VAL	836	48.963	58.879	35.110	1.00151.37	C
ATOM	6515	CB	VAL	836	48.642	58.161	36.405	1.00151.37	C
ATOM	6516	CG1	VAL	836	48.050	59.110	37.458	1.00151.37	C
ATOM	6517	CG2	VAL	836	47.749	56.958	36.063	1.00151.37	C
ATOM	6518	C	VAL	836	47.842	58.837	34.101	1.00151.37	C
ATOM	6519	O	VAL	836	47.847	57.949	33.248	1.00151.37	O
ATOM	6520	N	PRO	837	46.889	59.730	34.080	1.00 95.45	N
ATOM	6521	CA	PRO	837	45.912	59.584	33.042	1.00 95.45	C
ATOM	6522	CD	PRO	837	46.221	60.125	35.304	1.00 95.45	C
ATOM	6523	CB	PRO	837	44.758	60.508	33.410	1.00 95.45	C
ATOM	6524	CG	PRO	837	44.759	60.433	34.942	1.00 95.45	C
ATOM	6525	C	PRO	837	46.478	59.786	31.683	1.00 95.45	C
ATOM	6526	O	PRO	837	45.799	59.460	30.710	1.00 95.45	O
ATOM	6527	N	TYR	838	47.684	60.366	31.587	1.00143.26	N
ATOM	6528	CA	TYR	838	48.279	60.595	30.305	1.00143.26	C
ATOM	6529	CB	TYR	838	49.498	61.526	30.449	1.00143.26	C
ATOM	6530	CG	TYR	838	50.048	61.855	29.110	1.00143.26	C
ATOM	6531	CD1	TYR	838	49.386	62.734	28.285	1.00143.26	C
ATOM	6532	CD2	TYR	838	51.215	61.273	28.675	1.00143.26	C
ATOM	6533	CE1	TYR	838	49.889	63.042	27.044	1.00143.26	C
ATOM	6534	CE2	TYR	838	51.723	61.579	27.436	1.00143.26	C
ATOM	6535	CZ	TYR	838	51.061	62.464	26.621	1.00143.26	C
ATOM	6536	OH	TYR	838	51.584	62.775	25.350	1.00143.26	O
ATOM	6537	C	TYR	838	48.663	59.288	29.673	1.00143.26	C
ATOM	6538	O	TYR	838	48.316	59.019	28.522	1.00143.26	O
ATOM	6539	N	ARG	839	49.349	58.410	30.431	1.00169.26	N
ATOM	6540	CA	ARG	839	49.787	57.162	29.863	1.00169.26	C
ATOM	6541	CB	ARG	839	50.643	56.341	30.850	1.00169.26	C
ATOM	6542	CG	ARG	839	49.950	56.029	32.179	1.00169.26	C
ATOM	6543	CD	ARG	839	50.918	55.650	33.304	1.00169.26	C
ATOM	6544	NE	ARG	839	51.902	56.765	33.429	1.00169.26	N
ATOM	6545	CZ	ARG	839	52.046	57.453	34.601	1.00169.26	C
ATOM	6546	NH1	ARG	839	51.270	57.151	35.682	1.00169.26	N
ATOM	6547	NH2	ARG	839	52.970	58.453	34.690	1.00169.26	N
ATOM	6548	C	ARG	839	48.576	56.378	29.473	1.00169.26	C
ATOM	6549	O	ARG	839	48.493	55.816	28.380	1.00169.26	O
ATOM	6550	N	ASN	840	47.569	56.389	30.357	1.00 66.20	N
ATOM	6551	CA	ASN	840	46.355	55.661	30.151	1.00 66.20	C
ATOM	6552	CB	ASN	840	45.369	55.885	31.313	1.00 66.20	C
ATOM	6553	CG	ASN	840	44.068	55.146	31.041	1.00 66.20	C
ATOM	6554	OD1	ASN	840	43.143	55.700	30.449	1.00 66.20	O
ATOM	6555	ND2	ASN	840	43.990	53.864	31.487	1.00 66.20	N
ATOM	6556	C	ASN	840	45.709	56.138	28.883	1.00 66.20	C
ATOM	6557	O	ASN	840	45.120	55.349	28.146	1.00 66.20	O
ATOM	6558	N	SER	841	45.812	57.448	28.593	1.00 91.75	N
ATOM	6559	CA	SER	841	45.152	58.030	27.452	1.00 91.75	C
ATOM	6560	CB	SER	841	45.372	59.550	27.354	1.00 91.75	C
ATOM	6561	OG	SER	841	44.758	60.202	28.457	1.00 91.75	O
ATOM	6562	C	SER	841	45.642	57.421	26.181	1.00 91.75	C
ATOM	6563	O	SER	841	44.849	57.114	25.291	1.00 91.75	O
ATOM	6564	N	LEU	842	46.960	57.201	26.059	1.00 88.96	N
ATOM	6565	CA	LEU	842	47.456	56.691	24.819	1.00 88.96	C
ATOM	6566	CB	LEU	842	48.987	56.543	24.790	1.00 88.96	C
ATOM	6567	CG	LEU	842	49.736	57.892	24.781	1.00 88.96	C
ATOM	6568	CD1	LEU	842	49.439	58.683	23.495	1.00 88.96	C
ATOM	6569	CD2	LEU	842	49.464	58.708	26.053	1.00 88.96	C
ATOM	6570	C	LEU	842	46.836	55.358	24.543	1.00 88.96	C
ATOM	6571	O	LEU	842	46.433	55.081	23.413	1.00 88.96	O
ATOM	6572	N	ARG	843	46.716	54.493	25.568	1.00147.89	N
ATOM	6573	CA	ARG	843	46.185	53.189	25.289	1.00147.89	C
ATOM	6574	CB	ARG	843	46.158	52.256	26.514	1.00147.89	C
ATOM	6575	CG	ARG	843	45.924	50.797	26.113	1.00147.89	C
ATOM	6576	CD	ARG	843	44.496	50.283	26.318	1.00147.89	C
ATOM	6577	NE	ARG	843	44.401	49.722	27.696	1.00147.89	N
ATOM	6578	CZ	ARG	843	44.053	50.506	28.758	1.00147.89	C
ATOM	6579	NH1	ARG	843	43.782	51.831	28.577	1.00147.89	N

ATOM	6580	NH2	ARG	843	43.971	49.955	30.005	1.00147.89	N
ATOM	6581	C	ARG	843	44.780	53.314	24.779	1.00147.89	C
ATOM	6582	O	ARG	843	44.438	52.760	23.736	1.00147.89	O
ATOM	6583	N	LYS	844	43.943	54.115	25.462	1.00124.79	N
ATOM	6584	CA	LYS	844	42.557	54.230	25.103	1.00124.79	C
ATOM	6585	CB	LYS	844	41.753	55.149	26.040	1.00124.79	C
ATOM	6586	CG	LYS	844	42.232	56.599	26.065	1.00124.79	C
ATOM	6587	CD	LYS	844	41.255	57.551	26.754	1.00124.79	C
ATOM	6588	CE	LYS	844	41.759	58.993	26.823	1.00124.79	C
ATOM	6589	NZ	LYS	844	41.764	59.589	25.470	1.00124.79	N
ATOM	6590	C	LYS	844	42.462	54.760	23.712	1.00124.79	C
ATOM	6591	O	LYS	844	41.467	54.531	23.027	1.00124.79	O
ATOM	6592	N	ALA	845	43.477	55.521	23.264	1.00 62.13	N
ATOM	6593	CA	ALA	845	43.427	56.004	21.917	1.00 62.13	C
ATOM	6594	CB	ALA	845	44.740	56.687	21.516	1.00 62.13	C
ATOM	6595	C	ALA	845	43.345	54.785	21.063	1.00 62.13	C
ATOM	6596	O	ALA	845	42.433	54.622	20.253	1.00 62.13	O
ATOM	6597	N	HIS	846	44.239	53.830	21.347	1.00 64.81	N
ATOM	6598	CA	HIS	846	44.354	52.622	20.593	1.00 64.81	C
ATOM	6599	ND1	HIS	846	44.396	49.385	20.629	1.00 64.81	N
ATOM	6600	CG	HIS	846	45.429	50.297	20.631	1.00 64.81	C
ATOM	6601	CB	HIS	846	45.336	51.648	21.273	1.00 64.81	C
ATOM	6602	NE2	HIS	846	46.104	48.411	19.591	1.00 64.81	N
ATOM	6603	CD2	HIS	846	46.463	49.685	19.992	1.00 64.81	C
ATOM	6604	CE1	HIS	846	44.853	48.277	19.996	1.00 64.81	C
ATOM	6605	C	HIS	846	43.025	51.945	20.577	1.00 64.81	C
ATOM	6606	O	HIS	846	42.542	51.537	19.522	1.00 64.81	O
ATOM	6607	N	ILE	847	42.372	51.849	21.746	1.00 96.48	N
ATOM	6608	CA	ILE	847	41.152	51.100	21.815	1.00 96.48	C
ATOM	6609	CB	ILE	847	40.604	50.961	23.210	1.00 96.48	C
ATOM	6610	CG1	ILE	847	39.597	49.800	23.270	1.00 96.48	C
ATOM	6611	CG2	ILE	847	39.998	52.303	23.646	1.00 96.48	C
ATOM	6612	CD1	ILE	847	39.244	49.377	24.695	1.00 96.48	C
ATOM	6613	C	ILE	847	40.097	51.709	20.938	1.00 96.48	C
ATOM	6614	O	ILE	847	39.388	50.991	20.234	1.00 96.48	O
ATOM	6615	N	PHE	848	39.974	53.050	20.920	1.00142.02	N
ATOM	6616	CA	PHE	848	38.925	53.646	20.140	1.00142.02	C
ATOM	6617	CB	PHE	848	38.801	55.165	20.291	1.00142.02	C
ATOM	6618	CG	PHE	848	38.166	55.340	21.625	1.00142.02	C
ATOM	6619	CD1	PHE	848	36.797	55.288	21.745	1.00142.02	C
ATOM	6620	CD2	PHE	848	38.925	55.527	22.754	1.00142.02	C
ATOM	6621	CE1	PHE	848	36.194	55.437	22.969	1.00142.02	C
ATOM	6622	CE2	PHE	848	38.329	55.677	23.981	1.00142.02	C
ATOM	6623	CZ	PHE	848	36.961	55.634	24.091	1.00142.02	C
ATOM	6624	C	PHE	848	39.123	53.287	18.721	1.00142.02	C
ATOM	6625	O	PHE	848	38.160	53.068	17.990	1.00142.02	O
ATOM	6626	N	GLY	849	40.386	53.237	18.281	1.00 59.71	N
ATOM	6627	CA	GLY	849	40.572	52.909	16.908	1.00 59.71	C
ATOM	6628	C	GLY	849	40.064	51.527	16.623	1.00 59.71	C
ATOM	6629	O	GLY	849	39.208	51.358	15.757	1.00 59.71	O
ATOM	6630	N	ILE	850	40.490	50.515	17.407	1.00 58.51	N
ATOM	6631	CA	ILE	850	40.164	49.153	17.076	1.00 58.51	C
ATOM	6632	CB	ILE	850	40.741	48.157	18.045	1.00 58.51	C
ATOM	6633	CG1	ILE	850	40.522	46.721	17.538	1.00 58.51	C
ATOM	6634	CG2	ILE	850	40.173	48.440	19.443	1.00 58.51	C
ATOM	6635	CD1	ILE	850	41.358	45.676	18.279	1.00 58.51	C
ATOM	6636	C	ILE	850	38.682	49.009	17.033	1.00 58.51	C
ATOM	6637	O	ILE	850	38.138	48.417	16.102	1.00 58.51	O
ATOM	6638	N	THR	851	37.981	49.593	18.014	1.00131.75	N
ATOM	6639	CA	THR	851	36.559	49.445	18.012	1.00131.75	C
ATOM	6640	CB	THR	851	35.924	50.084	19.214	1.00131.75	C
ATOM	6641	OG1	THR	851	34.526	49.889	19.153	1.00131.75	O
ATOM	6642	CG2	THR	851	36.239	51.587	19.269	1.00131.75	C
ATOM	6643	C	THR	851	35.961	50.038	16.764	1.00131.75	C
ATOM	6644	O	THR	851	35.301	49.338	15.999	1.00131.75	O
ATOM	6645	N	PHE	852	36.265	51.314	16.459	1.00133.93	N
ATOM	6646	CA	PHE	852	35.652	52.001	15.347	1.00133.93	C
ATOM	6647	CB	PHE	852	36.183	53.442	15.203	1.00133.93	C
ATOM	6648	CG	PHE	852	35.772	54.032	13.892	1.00133.93	C
ATOM	6649	CD1	PHE	852	34.463	53.996	13.468	1.00133.93	C
ATOM	6650	CD2	PHE	852	36.720	54.584	13.059	1.00133.93	C
ATOM	6651	CE1	PHE	852	34.105	54.539	12.255	1.00133.93	C
ATOM	6652	CE2	PHE	852	36.370	55.130	11.846	1.00133.93	C
ATOM	6653	CZ	PHE	852	35.056	55.112	11.442	1.00133.93	C

ATOM	6654	C	PHE	852	35.877	51.220	14.093	1.00133.93	C
ATOM	6655	O	PHE	852	34.946	50.998	13.321	1.00133.93	O
ATOM	6656	N	SER	853	37.106	50.735	13.874	1.00 62.22	N
ATOM	6657	CA	SER	853	37.389	50.019	12.666	1.00 62.22	C
ATOM	6658	CB	SER	853	38.835	49.504	12.630	1.00 62.22	C
ATOM	6659	OG	SER	853	39.020	48.534	13.651	1.00 62.22	O
ATOM	6660	C	SER	853	36.497	48.822	12.583	1.00 62.22	C
ATOM	6661	O	SER	853	35.866	48.577	11.560	1.00 62.22	O
ATOM	6662	N	PHE	854	36.349	48.095	13.700	1.00117.52	N
ATOM	6663	CA	PHE	854	35.605	46.869	13.738	1.00117.52	C
ATOM	6664	CB	PHE	854	35.489	46.319	15.171	1.00117.52	C
ATOM	6665	CG	PHE	854	34.676	45.069	15.167	1.00117.52	C
ATOM	6666	CD1	PHE	854	33.303	45.145	15.212	1.00117.52	C
ATOM	6667	CD2	PHE	854	35.276	43.831	15.131	1.00117.52	C
ATOM	6668	CE1	PHE	854	32.539	44.001	15.218	1.00117.52	C
ATOM	6669	CE2	PHE	854	34.515	42.685	15.138	1.00117.52	C
ATOM	6670	CZ	PHE	854	33.144	42.767	15.179	1.00117.52	C
ATOM	6671	C	PHE	854	34.235	47.166	13.228	1.00117.52	C
ATOM	6672	O	PHE	854	33.604	46.315	12.604	1.00117.52	O
ATOM	6673	N	THR	855	33.724	48.381	13.494	1.00129.07	N
ATOM	6674	CA	THR	855	32.405	48.675	13.020	1.00129.07	C
ATOM	6675	CB	THR	855	31.835	49.985	13.520	1.00129.07	C
ATOM	6676	OG1	THR	855	30.421	49.940	13.451	1.00129.07	O
ATOM	6677	CG2	THR	855	32.309	51.156	12.647	1.00129.07	C
ATOM	6678	C	THR	855	32.404	48.670	11.517	1.00129.07	C
ATOM	6679	O	THR	855	31.485	48.137	10.899	1.00129.07	O
ATOM	6680	N	GLN	856	33.437	49.261	10.886	1.00 84.97	N
ATOM	6681	CA	GLN	856	33.546	49.345	9.452	1.00 84.97	C
ATOM	6682	CB	GLN	856	34.652	50.305	9.001	1.00 84.97	C
ATOM	6683	CG	GLN	856	34.331	51.736	9.421	1.00 84.97	C
ATOM	6684	CD	GLN	856	32.885	51.997	9.018	1.00 84.97	C
ATOM	6685	OE1	GLN	856	31.950	51.563	9.692	1.00 84.97	O
ATOM	6686	NE2	GLN	856	32.693	52.719	7.882	1.00 84.97	N
ATOM	6687	C	GLN	856	33.800	47.992	8.864	1.00 84.97	C
ATOM	6688	O	GLN	856	33.383	47.698	7.745	1.00 84.97	O
ATOM	6689	N	ALA	857	34.528	47.129	9.585	1.00 45.05	N
ATOM	6690	CA	ALA	857	34.761	45.813	9.076	1.00 45.05	C
ATOM	6691	CB	ALA	857	35.548	44.925	10.055	1.00 45.05	C
ATOM	6692	C	ALA	857	33.404	45.220	8.929	1.00 45.05	C
ATOM	6693	O	ALA	857	33.111	44.528	7.958	1.00 45.05	O
ATOM	6694	N	MET	858	32.510	45.532	9.878	1.00 61.08	N
ATOM	6695	CA	MET	858	31.189	44.994	9.809	1.00 61.08	C
ATOM	6696	CB	MET	858	30.277	45.461	10.958	1.00 61.08	C
ATOM	6697	CG	MET	858	30.752	44.961	12.326	1.00 61.08	C
ATOM	6698	SD	MET	858	30.656	43.161	12.569	1.00 61.08	S
ATOM	6699	CE	MET	858	29.031	43.191	13.381	1.00 61.08	C
ATOM	6700	C	MET	858	30.614	45.469	8.515	1.00 61.08	C
ATOM	6701	O	MET	858	29.865	44.746	7.863	1.00 61.08	O
ATOM	6702	N	MET	859	30.992	46.687	8.085	1.00133.74	N
ATOM	6703	CA	MET	859	30.459	47.206	6.857	1.00133.74	C
ATOM	6704	CB	MET	859	31.129	48.528	6.458	1.00133.74	C
ATOM	6705	CG	MET	859	31.004	48.894	4.981	1.00133.74	C
ATOM	6706	SD	MET	859	32.295	50.065	4.462	1.00133.74	S
ATOM	6707	CE	MET	859	31.886	50.073	2.695	1.00133.74	C
ATOM	6708	C	MET	859	30.700	46.250	5.727	1.00133.74	C
ATOM	6709	O	MET	859	29.743	45.802	5.096	1.00133.74	O
ATOM	6710	N	TYR	860	31.967	45.863	5.468	1.00100.95	N
ATOM	6711	CA	TYR	860	32.227	45.014	4.338	1.00100.95	C
ATOM	6712	CB	TYR	860	33.713	44.877	3.951	1.00100.95	C
ATOM	6713	CG	TYR	860	34.468	44.001	4.892	1.00100.95	C
ATOM	6714	CD1	TYR	860	35.038	44.506	6.036	1.00100.95	C
ATOM	6715	CD2	TYR	860	34.622	42.664	4.608	1.00100.95	C
ATOM	6716	CE1	TYR	860	35.747	43.690	6.886	1.00100.95	C
ATOM	6717	CE2	TYR	860	35.330	41.841	5.452	1.00100.95	C
ATOM	6718	CZ	TYR	860	35.892	42.356	6.595	1.00100.95	C
ATOM	6719	OH	TYR	860	36.621	41.519	7.463	1.00100.95	O
ATOM	6720	C	TYR	860	31.676	43.649	4.575	1.00100.95	C
ATOM	6721	O	TYR	860	31.070	43.079	3.668	1.00100.95	O
ATOM	6722	N	PHE	861	31.835	43.110	5.808	1.00130.16	N
ATOM	6723	CA	PHE	861	31.391	41.771	6.095	1.00130.16	C
ATOM	6724	CB	PHE	861	31.328	41.376	7.589	1.00130.16	C
ATOM	6725	CG	PHE	861	32.633	41.072	8.246	1.00130.16	C
ATOM	6726	CD1	PHE	861	33.194	39.823	8.128	1.00130.16	C
ATOM	6727	CD2	PHE	861	33.283	42.014	9.005	1.00130.16	C

ATOM	6728	CE1	PHE	861	34.388	39.529	8.745	1.00130.16	C
ATOM	6729	CE2	PHE	861	34.474	41.732	9.626	1.00130.16	C
ATOM	6730	CZ	PHE	861	35.031	40.484	9.496	1.00130.16	C
ATOM	6731	C	PHE	861	29.954	41.704	5.727	1.00130.16	C
ATOM	6732	O	PHE	861	29.539	40.823	4.976	1.00130.16	O
ATOM	6733	N	SER	862	29.173	42.683	6.214	1.00107.65	N
ATOM	6734	CA	SER	862	27.766	42.644	5.992	1.00107.65	C
ATOM	6735	CB	SER	862	27.001	43.809	6.657	1.00107.65	C
ATOM	6736	OG	SER	862	27.423	45.065	6.152	1.00107.65	O
ATOM	6737	C	SER	862	27.477	42.613	4.522	1.00107.65	C
ATOM	6738	O	SER	862	26.896	41.646	4.040	1.00107.65	O
ATOM	6739	N	TYR	863	27.941	43.609	3.740	1.00 74.17	N
ATOM	6740	CA	TYR	863	27.551	43.639	2.353	1.00 74.17	C
ATOM	6741	CB	TYR	863	28.180	44.782	1.530	1.00 74.17	C
ATOM	6742	CG	TYR	863	27.498	46.083	1.787	1.00 74.17	C
ATOM	6743	CD1	TYR	863	27.869	46.893	2.834	1.00 74.17	C
ATOM	6744	CD2	TYR	863	26.483	46.497	0.954	1.00 74.17	C
ATOM	6745	CE1	TYR	863	27.233	48.093	3.046	1.00 74.17	C
ATOM	6746	CE2	TYR	863	25.843	47.695	1.160	1.00 74.17	C
ATOM	6747	CZ	TYR	863	26.218	48.497	2.210	1.00 74.17	C
ATOM	6748	OH	TYR	863	25.566	49.730	2.427	1.00 74.17	O
ATOM	6749	C	TYR	863	27.964	42.391	1.634	1.00 74.17	C
ATOM	6750	O	TYR	863	27.134	41.746	0.996	1.00 74.17	O
ATOM	6751	N	ALA	864	29.238	41.983	1.770	1.00 51.96	N
ATOM	6752	CA	ALA	864	29.750	40.903	0.979	1.00 51.96	C
ATOM	6753	CB	ALA	864	31.185	40.539	1.354	1.00 51.96	C
ATOM	6754	C	ALA	864	28.972	39.659	1.212	1.00 51.96	C
ATOM	6755	O	ALA	864	28.513	39.024	0.264	1.00 51.96	O
ATOM	6756	N	GLY	865	28.763	39.302	2.487	1.00 25.91	N
ATOM	6757	CA	GLY	865	28.106	38.062	2.759	1.00 25.91	C
ATOM	6758	C	GLY	865	26.751	38.138	2.150	1.00 25.91	C
ATOM	6759	O	GLY	865	26.286	37.181	1.533	1.00 25.91	O
ATOM	6760	N	CYS	866	26.103	39.309	2.277	1.00 57.33	N
ATOM	6761	CA	CYS	866	24.763	39.437	1.799	1.00 57.33	C
ATOM	6762	CB	CYS	866	24.201	40.857	1.973	1.00 57.33	C
ATOM	6763	SG	CYS	866	24.054	41.363	3.711	1.00 57.33	S
ATOM	6764	C	CYS	866	24.691	39.142	0.332	1.00 57.33	C
ATOM	6765	O	CYS	866	24.070	38.167	-0.085	1.00 57.33	O
ATOM	6766	N	PHE	867	25.406	39.924	-0.492	1.00 80.40	N
ATOM	6767	CA	PHE	867	25.298	39.780	-1.916	1.00 80.40	C
ATOM	6768	CB	PHE	867	26.186	40.766	-2.697	1.00 80.40	C
ATOM	6769	CG	PHE	867	25.555	42.116	-2.651	1.00 80.40	C
ATOM	6770	CD1	PHE	867	24.646	42.485	-3.617	1.00 80.40	C
ATOM	6771	CD2	PHE	867	25.864	43.011	-1.654	1.00 80.40	C
ATOM	6772	CE1	PHE	867	24.054	43.725	-3.594	1.00 80.40	C
ATOM	6773	CE2	PHE	867	25.274	44.253	-1.626	1.00 80.40	C
ATOM	6774	CZ	PHE	867	24.369	44.614	-2.596	1.00 80.40	C
ATOM	6775	C	PHE	867	25.719	38.402	-2.307	1.00 80.40	C
ATOM	6776	O	PHE	867	25.133	37.799	-3.204	1.00 80.40	O
ATOM	6777	N	ARG	868	26.781	37.876	-1.675	1.00105.91	N
ATOM	6778	CA	ARG	868	27.253	36.587	-2.080	1.00105.91	C
ATOM	6779	CB	ARG	868	28.562	36.190	-1.373	1.00105.91	C
ATOM	6780	CG	ARG	868	29.369	35.109	-2.103	1.00105.91	C
ATOM	6781	CD	ARG	868	28.545	33.882	-2.489	1.00105.91	C
ATOM	6782	NE	ARG	868	27.966	33.336	-1.232	1.00105.91	N
ATOM	6783	CZ	ARG	868	28.346	32.106	-0.784	1.00105.91	C
ATOM	6784	NH1	ARG	868	29.207	31.351	-1.525	1.00105.91	N
ATOM	6785	NH2	ARG	868	27.856	31.629	0.398	1.00105.91	N
ATOM	6786	C	ARG	868	26.215	35.541	-1.785	1.00105.91	C
ATOM	6787	O	ARG	868	25.842	34.756	-2.656	1.00105.91	O
ATOM	6788	N	PHE	869	25.677	35.543	-0.551	1.00 74.14	N
ATOM	6789	CA	PHE	869	24.756	34.528	-0.130	1.00 74.14	C
ATOM	6790	CB	PHE	869	24.325	34.709	1.333	1.00 74.14	C
ATOM	6791	CG	PHE	869	23.496	33.531	1.697	1.00 74.14	C
ATOM	6792	CD1	PHE	869	24.091	32.402	2.207	1.00 74.14	C
ATOM	6793	CD2	PHE	869	22.131	33.551	1.529	1.00 74.14	C
ATOM	6794	CE1	PHE	869	23.336	31.305	2.548	1.00 74.14	C
ATOM	6795	CE2	PHE	869	21.370	32.458	1.869	1.00 74.14	C
ATOM	6796	CZ	PHE	869	21.973	31.333	2.378	1.00 74.14	C
ATOM	6797	C	PHE	869	23.537	34.598	-0.982	1.00 74.14	C
ATOM	6798	O	PHE	869	23.056	33.576	-1.470	1.00 74.14	O
ATOM	6799	N	GLY	870	23.022	35.819	-1.213	1.00 56.05	N
ATOM	6800	CA	GLY	870	21.809	35.937	-1.962	1.00 56.05	C
ATOM	6801	C	GLY	870	22.005	35.333	-3.317	1.00 56.05	C

ATOM	6802	O	GLY	870	21.244	34.464	-3.727	1.00	56.05	O
ATOM	6803	N	ALA	871	23.112	35.677	-3.991	1.00	70.46	N
ATOM	6804	CA	ALA	871	23.358	35.297	-5.353	1.00	70.46	C
ATOM	6805	CB	ALA	871	24.757	35.702	-5.852	1.00	70.46	C
ATOM	6806	C	ALA	871	23.272	33.819	-5.450	1.00	70.46	C
ATOM	6807	O	ALA	871	22.876	33.308	-6.497	1.00	70.46	O
ATOM	6808	N	TYR	872	23.644	33.129	-4.351	1.00	103.79	N
ATOM	6809	CA	TYR	872	23.731	31.697	-4.241	1.00	103.79	C
ATOM	6810	CB	TYR	872	23.487	31.155	-2.822	1.00	103.79	C
ATOM	6811	CG	TYR	872	23.508	29.669	-2.950	1.00	103.79	C
ATOM	6812	CD1	TYR	872	24.701	28.989	-3.057	1.00	103.79	C
ATOM	6813	CD2	TYR	872	22.333	28.953	-2.967	1.00	103.79	C
ATOM	6814	CE1	TYR	872	24.719	27.620	-3.180	1.00	103.79	C
ATOM	6815	CE2	TYR	872	22.345	27.583	-3.090	1.00	103.79	C
ATOM	6816	CZ	TYR	872	23.540	26.914	-3.197	1.00	103.79	C
ATOM	6817	OH	TYR	872	23.553	25.508	-3.324	1.00	103.79	O
ATOM	6818	C	TYR	872	22.793	30.967	-5.163	1.00	103.79	C
ATOM	6819	O	TYR	872	21.596	31.238	-5.206	1.00	103.79	O
ATOM	6820	N	LEU	873	23.371	29.981	-5.882	1.00	182.03	N
ATOM	6821	CA	LEU	873	22.835	29.023	-6.827	1.00	182.03	C
ATOM	6822	CB	LEU	873	22.014	27.920	-6.119	1.00	182.03	C
ATOM	6823	CG	LEU	873	21.723	26.618	-6.908	1.00	182.03	C
ATOM	6824	CD1	LEU	873	20.900	25.658	-6.036	1.00	182.03	C
ATOM	6825	CD2	LEU	873	21.064	26.822	-8.281	1.00	182.03	C
ATOM	6826	C	LEU	873	22.060	29.562	-8.007	1.00	182.03	C
ATOM	6827	O	LEU	873	20.833	29.545	-8.036	1.00	182.03	O
ATOM	6828	N	VAL	874	22.797	30.130	-8.981	1.00	144.89	N
ATOM	6829	CA	VAL	874	22.381	30.596	-10.280	1.00	144.89	C
ATOM	6830	CB	VAL	874	23.167	31.770	-10.769	1.00	144.89	C
ATOM	6831	CG1	VAL	874	23.079	32.896	-9.723	1.00	144.89	C
ATOM	6832	CG2	VAL	874	24.582	31.306	-11.106	1.00	144.89	C
ATOM	6833	C	VAL	874	22.446	29.521	-11.347	1.00	144.89	C
ATOM	6834	O	VAL	874	22.387	29.851	-12.533	1.00	144.89	O
ATOM	6835	N	ALA	875	22.746	28.249	-11.007	1.00	85.76	N
ATOM	6836	CA	ALA	875	22.953	27.271	-12.050	1.00	85.76	C
ATOM	6837	CB	ALA	875	23.573	25.958	-11.544	1.00	85.76	C
ATOM	6838	C	ALA	875	21.689	26.932	-12.800	1.00	85.76	C
ATOM	6839	O	ALA	875	20.803	26.238	-12.308	1.00	85.76	O
ATOM	6840	N	HIS	876	21.648	27.328	-14.088	1.00	126.39	N
ATOM	6841	CA	HIS	876	20.563	27.089	-15.007	1.00	126.39	C
ATOM	6842	ND1	HIS	876	19.552	25.213	-17.511	1.00	126.39	N
ATOM	6843	CG	HIS	876	19.255	25.217	-16.167	1.00	126.39	C
ATOM	6844	CB	HIS	876	20.230	25.584	-15.088	1.00	126.39	C
ATOM	6845	NE2	HIS	876	17.422	24.596	-17.327	1.00	126.39	N
ATOM	6846	CD2	HIS	876	17.952	24.838	-16.073	1.00	126.39	C
ATOM	6847	CE1	HIS	876	18.421	24.835	-18.158	1.00	126.39	C
ATOM	6848	C	HIS	876	19.313	27.867	-14.658	1.00	126.39	C
ATOM	6849	O	HIS	876	18.242	27.613	-15.207	1.00	126.39	O
ATOM	6850	N	LYS	877	19.434	28.903	-13.806	1.00	233.02	N
ATOM	6851	CA	LYS	877	18.338	29.773	-13.447	1.00	233.02	C
ATOM	6852	CB	LYS	877	17.415	30.160	-14.612	1.00	233.02	C
ATOM	6853	CG	LYS	877	16.132	30.808	-14.099	1.00	233.02	C
ATOM	6854	CD	LYS	877	16.371	32.112	-13.337	1.00	233.02	C
ATOM	6855	CE	LYS	877	15.226	32.495	-12.398	1.00	233.02	C
ATOM	6856	NZ	LYS	877	13.925	32.352	-13.084	1.00	233.02	N
ATOM	6857	C	LYS	877	17.488	29.184	-12.360	1.00	233.02	C
ATOM	6858	O	LYS	877	16.578	28.398	-12.617	1.00	233.02	O
ATOM	6859	N	LEU	878	17.735	29.641	-11.112	1.00	169.50	N
ATOM	6860	CA	LEU	878	17.103	29.188	-9.905	1.00	169.50	C
ATOM	6861	CB	LEU	878	18.153	28.458	-9.018	1.00	169.50	C
ATOM	6862	CG	LEU	878	17.742	27.869	-7.648	1.00	169.50	C
ATOM	6863	CD1	LEU	878	17.905	28.867	-6.488	1.00	169.50	C
ATOM	6864	CD2	LEU	878	16.332	27.256	-7.715	1.00	169.50	C
ATOM	6865	C	LEU	878	16.494	30.392	-9.226	1.00	169.50	C
ATOM	6866	O	LEU	878	16.545	31.506	-9.746	1.00	169.50	O
ATOM	6867	N	MET	879	15.968	30.202	-8.002	1.00	108.85	N
ATOM	6868	CA	MET	879	15.223	31.144	-7.215	1.00	108.85	C
ATOM	6869	CB	MET	879	14.820	30.590	-5.840	1.00	108.85	C
ATOM	6870	CG	MET	879	13.884	29.382	-5.937	1.00	108.85	C
ATOM	6871	SD	MET	879	12.293	29.711	-6.757	1.00	108.85	S
ATOM	6872	CE	MET	879	12.938	29.752	-8.457	1.00	108.85	C
ATOM	6873	C	MET	879	16.057	32.364	-7.009	1.00	108.85	C
ATOM	6874	O	MET	879	15.554	33.388	-6.549	1.00	108.85	O
ATOM	6875	N	SER	880	17.376	32.248	-7.230	1.00	94.90	N

ATOM	6876	CA	SER	880	18.265	33.373	-7.118	1.00	94.90	C
ATOM	6877	CB	SER	880	19.737	32.945	-6.982	1.00	94.90	C
ATOM	6878	OG	SER	880	20.155	32.260	-8.154	1.00	94.90	O
ATOM	6879	C	SER	880	18.169	34.237	-8.351	1.00	94.90	C
ATOM	6880	O	SER	880	18.472	33.790	-9.459	1.00	94.90	O
ATOM	6881	N	PHE	881	17.772	35.523	-8.168	1.00	195.51	N
ATOM	6882	CA	PHE	881	17.614	36.451	-9.257	1.00	195.51	C
ATOM	6883	CB	PHE	881	16.360	36.157	-10.117	1.00	195.51	C
ATOM	6884	CG	PHE	881	15.109	36.351	-9.321	1.00	195.51	C
ATOM	6885	CD1	PHE	881	14.827	35.530	-8.255	1.00	195.51	C
ATOM	6886	CD2	PHE	881	14.225	37.366	-9.618	1.00	195.51	C
ATOM	6887	CE1	PHE	881	13.682	35.706	-7.514	1.00	195.51	C
ATOM	6888	CE2	PHE	881	13.078	37.549	-8.883	1.00	195.51	C
ATOM	6889	CZ	PHE	881	12.803	36.715	-7.827	1.00	195.51	C
ATOM	6890	C	PHE	881	17.527	37.856	-8.692	1.00	195.51	C
ATOM	6891	O	PHE	881	18.185	38.197	-7.712	1.00	195.51	O
ATOM	6892	N	GLU	882	16.678	38.703	-9.310	1.00	153.82	N
ATOM	6893	CA	GLU	882	16.487	40.109	-9.039	1.00	153.82	C
ATOM	6894	CB	GLU	882	15.397	40.718	-9.943	1.00	153.82	C
ATOM	6895	CG	GLU	882	15.026	42.171	-9.635	1.00	153.82	C
ATOM	6896	CD	GLU	882	13.947	42.165	-8.557	1.00	153.82	C
ATOM	6897	OE1	GLU	882	12.911	41.478	-8.755	1.00	153.82	O
ATOM	6898	OE2	GLU	882	14.163	42.826	-7.506	1.00	153.82	O
ATOM	6899	C	GLU	882	16.103	40.432	-7.613	1.00	153.82	C
ATOM	6900	O	GLU	882	16.530	41.463	-7.097	1.00	153.82	O
ATOM	6901	N	ASP	883	15.348	39.563	-6.916	1.00	143.26	N
ATOM	6902	CA	ASP	883	14.749	39.814	-5.620	1.00	143.26	C
ATOM	6903	CB	ASP	883	14.203	38.527	-4.971	1.00	143.26	C
ATOM	6904	CG	ASP	883	15.339	37.521	-4.785	1.00	143.26	C
ATOM	6905	OD1	ASP	883	16.215	37.424	-5.686	1.00	143.26	O
ATOM	6906	OD2	ASP	883	15.333	36.819	-3.739	1.00	143.26	O
ATOM	6907	C	ASP	883	15.746	40.424	-4.680	1.00	143.26	C
ATOM	6908	O	ASP	883	15.367	41.153	-3.762	1.00	143.26	O
ATOM	6909	N	VAL	884	17.045	40.176	-4.907	1.00	92.22	N
ATOM	6910	CA	VAL	884	18.094	40.723	-4.097	1.00	92.22	C
ATOM	6911	CB	VAL	884	19.448	40.534	-4.720	1.00	92.22	C
ATOM	6912	CG1	VAL	884	19.786	39.035	-4.735	1.00	92.22	C
ATOM	6913	CG2	VAL	884	19.421	41.159	-6.128	1.00	92.22	C
ATOM	6914	C	VAL	884	17.876	42.209	-3.966	1.00	92.22	C
ATOM	6915	O	VAL	884	18.302	42.825	-2.994	1.00	92.22	O
ATOM	6916	N	LEU	885	17.232	42.862	-4.943	1.00	93.78	N
ATOM	6917	CA	LEU	885	17.043	44.279	-4.781	1.00	93.78	C
ATOM	6918	CB	LEU	885	16.453	44.980	-6.007	1.00	93.78	C
ATOM	6919	CG	LEU	885	17.445	44.952	-7.176	1.00	93.78	C
ATOM	6920	CD1	LEU	885	17.045	45.948	-8.269	1.00	93.78	C
ATOM	6921	CD2	LEU	885	18.886	45.121	-6.675	1.00	93.78	C
ATOM	6922	C	LEU	885	16.176	44.576	-3.593	1.00	93.78	C
ATOM	6923	O	LEU	885	16.358	45.596	-2.929	1.00	93.78	O
ATOM	6924	N	LEU	886	15.172	43.728	-3.315	1.00	130.80	N
ATOM	6925	CA	LEU	886	14.365	43.944	-2.151	1.00	130.80	C
ATOM	6926	CB	LEU	886	13.089	43.093	-2.122	1.00	130.80	C
ATOM	6927	CG	LEU	886	12.095	43.565	-3.200	1.00	130.80	C
ATOM	6928	CD1	LEU	886	12.619	43.288	-4.616	1.00	130.80	C
ATOM	6929	CD2	LEU	886	10.690	43.012	-2.959	1.00	130.80	C
ATOM	6930	C	LEU	886	15.212	43.700	-0.941	1.00	130.80	C
ATOM	6931	O	LEU	886	14.955	44.251	0.128	1.00	130.80	O
ATOM	6932	N	VAL	887	16.240	42.837	-1.048	1.00	155.75	N
ATOM	6933	CA	VAL	887	17.030	42.658	0.139	1.00	155.75	C
ATOM	6934	CB	VAL	887	18.099	41.591	0.088	1.00	155.75	C
ATOM	6935	CG1	VAL	887	17.468	40.301	-0.456	1.00	155.75	C
ATOM	6936	CG2	VAL	887	19.371	42.085	-0.604	1.00	155.75	C
ATOM	6937	C	VAL	887	17.662	43.987	0.455	1.00	155.75	C
ATOM	6938	O	VAL	887	17.775	44.383	1.615	1.00	155.75	O
ATOM	6939	N	PHE	888	18.033	44.743	-0.593	1.00	142.44	N
ATOM	6940	CA	PHE	888	18.616	46.050	-0.444	1.00	142.44	C
ATOM	6941	CB	PHE	888	18.779	46.716	-1.829	1.00	142.44	C
ATOM	6942	CG	PHE	888	19.219	48.137	-1.719	1.00	142.44	C
ATOM	6943	CD1	PHE	888	18.293	49.145	-1.566	1.00	142.44	C
ATOM	6944	CD2	PHE	888	20.553	48.466	-1.794	1.00	142.44	C
ATOM	6945	CE1	PHE	888	18.692	50.457	-1.477	1.00	142.44	C
ATOM	6946	CE2	PHE	888	20.959	49.777	-1.704	1.00	142.44	C
ATOM	6947	CZ	PHE	888	20.027	50.775	-1.544	1.00	142.44	C
ATOM	6948	C	PHE	888	17.627	46.844	0.355	1.00	142.44	C
ATOM	6949	O	PHE	888	17.985	47.644	1.220	1.00	142.44	O

ATOM	6950	N	SER	889	16.334	46.617	0.087	1.00	69.13	N
ATOM	6951	CA	SER	889	15.288	47.333	0.751	1.00	69.13	C
ATOM	6952	CB	SER	889	13.907	46.773	0.377	1.00	69.13	C
ATOM	6953	OG	SER	889	13.716	46.844	-1.030	1.00	69.13	O
ATOM	6954	C	SER	889	15.407	47.194	2.251	1.00	69.13	C
ATOM	6955	O	SER	889	15.350	48.185	2.977	1.00	69.13	O
ATOM	6956	N	ALA	890	15.547	45.951	2.754	1.00	78.26	N
ATOM	6957	CA	ALA	890	15.611	45.648	4.166	1.00	78.26	C
ATOM	6958	CB	ALA	890	15.581	44.132	4.436	1.00	78.26	C
ATOM	6959	C	ALA	890	16.853	46.193	4.811	1.00	78.26	C
ATOM	6960	O	ALA	890	16.827	46.606	5.972	1.00	78.26	O
ATOM	6961	N	VAL	891	18.000	46.146	4.108	1.00	119.51	N
ATOM	6962	CA	VAL	891	19.215	46.622	4.710	1.00	119.51	C
ATOM	6963	CB	VAL	891	20.444	46.335	3.879	1.00	119.51	C
ATOM	6964	CG1	VAL	891	20.324	47.029	2.514	1.00	119.51	C
ATOM	6965	CG2	VAL	891	21.689	46.755	4.680	1.00	119.51	C
ATOM	6966	C	VAL	891	19.079	48.095	4.912	1.00	119.51	C
ATOM	6967	O	VAL	891	19.370	48.636	5.979	1.00	119.51	O
ATOM	6968	N	VAL	892	18.564	48.764	3.870	1.00	90.94	N
ATOM	6969	CA	VAL	892	18.333	50.169	3.841	1.00	90.94	C
ATOM	6970	CB	VAL	892	17.762	50.579	2.521	1.00	90.94	C
ATOM	6971	CG1	VAL	892	17.265	52.023	2.609	1.00	90.94	C
ATOM	6972	CG2	VAL	892	18.854	50.369	1.464	1.00	90.94	C
ATOM	6973	C	VAL	892	17.333	50.469	4.908	1.00	90.94	C
ATOM	6974	O	VAL	892	17.287	51.573	5.451	1.00	90.94	O
ATOM	6975	N	PHE	893	16.463	49.495	5.215	1.00	114.46	N
ATOM	6976	CA	PHE	893	15.489	49.795	6.216	1.00	114.46	C
ATOM	6977	CB	PHE	893	14.428	48.700	6.460	1.00	114.46	C
ATOM	6978	CG	PHE	893	13.613	48.505	5.222	1.00	114.46	C
ATOM	6979	CD1	PHE	893	13.154	49.577	4.492	1.00	114.46	C
ATOM	6980	CD2	PHE	893	13.242	47.240	4.829	1.00	114.46	C
ATOM	6981	CE1	PHE	893	12.395	49.373	3.361	1.00	114.46	C
ATOM	6982	CE2	PHE	893	12.482	47.029	3.702	1.00	114.46	C
ATOM	6983	CZ	PHE	893	12.060	48.102	2.958	1.00	114.46	C
ATOM	6984	C	PHE	893	16.171	50.078	7.523	1.00	114.46	C
ATOM	6985	O	PHE	893	15.911	51.104	8.154	1.00	114.46	O
ATOM	6986	N	GLY	894	17.110	49.207	7.941	1.00	54.99	N
ATOM	6987	CA	GLY	894	17.723	49.350	9.235	1.00	54.99	C
ATOM	6988	C	GLY	894	18.345	50.709	9.300	1.00	54.99	C
ATOM	6989	O	GLY	894	18.255	51.417	10.306	1.00	54.99	O
ATOM	6990	N	ALA	895	18.949	51.122	8.180	1.00	55.61	N
ATOM	6991	CA	ALA	895	19.596	52.391	8.106	1.00	55.61	C
ATOM	6992	CB	ALA	895	20.228	52.647	6.725	1.00	55.61	C
ATOM	6993	C	ALA	895	18.588	53.478	8.352	1.00	55.61	C
ATOM	6994	O	ALA	895	18.895	54.483	8.991	1.00	55.61	O
ATOM	6995	N	MET	896	17.346	53.312	7.863	1.00	139.15	N
ATOM	6996	CA	MET	896	16.378	54.374	7.968	1.00	139.15	C
ATOM	6997	CB	MET	896	15.027	54.020	7.305	1.00	139.15	C
ATOM	6998	CG	MET	896	14.110	53.164	8.183	1.00	139.15	C
ATOM	6999	SD	MET	896	12.861	52.182	7.302	1.00	139.15	S
ATOM	7000	CE	MET	896	11.803	53.592	6.882	1.00	139.15	C
ATOM	7001	C	MET	896	16.113	54.718	9.413	1.00	139.15	C
ATOM	7002	O	MET	896	16.093	55.890	9.794	1.00	139.15	O
ATOM	7003	N	ALA	897	15.929	53.694	10.265	1.00	76.64	N
ATOM	7004	CA	ALA	897	15.607	53.879	11.652	1.00	76.64	C
ATOM	7005	CB	ALA	897	15.331	52.555	12.384	1.00	76.64	C
ATOM	7006	C	ALA	897	16.737	54.554	12.347	1.00	76.64	C
ATOM	7007	O	ALA	897	16.529	55.336	13.275	1.00	76.64	O
ATOM	7008	N	VAL	898	17.975	54.262	11.917	1.00	125.31	N
ATOM	7009	CA	VAL	898	19.100	54.816	12.608	1.00	125.31	C
ATOM	7010	CB	VAL	898	20.436	54.439	12.028	1.00	125.31	C
ATOM	7011	CG1	VAL	898	20.743	55.336	10.822	1.00	125.31	C
ATOM	7012	CG2	VAL	898	21.487	54.526	13.143	1.00	125.31	C
ATOM	7013	C	VAL	898	18.973	56.305	12.549	1.00	125.31	C
ATOM	7014	O	VAL	898	19.317	57.018	13.492	1.00	125.31	O
ATOM	7015	N	GLY	899	18.416	56.812	11.437	1.00	54.97	N
ATOM	7016	CA	GLY	899	18.303	58.229	11.282	1.00	54.97	C
ATOM	7017	C	GLY	899	17.497	58.779	12.425	1.00	54.97	C
ATOM	7018	O	GLY	899	17.810	59.840	12.966	1.00	54.97	O
ATOM	7019	N	GLN	900	16.439	58.056	12.833	1.00	140.57	N
ATOM	7020	CA	GLN	900	15.488	58.547	13.800	1.00	140.57	C
ATOM	7021	CB	GLN	900	14.352	57.535	14.011	1.00	140.57	C
ATOM	7022	CG	GLN	900	13.557	57.236	12.740	1.00	140.57	C
ATOM	7023	CD	GLN	900	12.541	58.348	12.557	1.00	140.57	C

ATOM	7024	OE1	GLN	900	11.375	58.192	12.913	1.00140.57	O
ATOM	7025	NE2	GLN	900	12.991	59.502	11.995	1.00140.57	N
ATOM	7026	C	GLN	900	16.079	58.809	15.163	1.00140.57	C
ATOM	7027	O	GLN	900	15.894	59.888	15.732	1.00140.57	O
ATOM	7028	N	VAL	901	16.823	57.838	15.725	1.00124.97	N
ATOM	7029	CA	VAL	901	17.345	57.994	17.062	1.00124.97	C
ATOM	7030	CB	VAL	901	18.185	56.828	17.469	1.00124.97	C
ATOM	7031	CG1	VAL	901	19.003	57.232	18.696	1.00124.97	C
ATOM	7032	CG2	VAL	901	17.257	55.636	17.735	1.00124.97	C
ATOM	7033	C	VAL	901	18.241	59.169	17.076	1.00124.97	C
ATOM	7034	O	VAL	901	18.204	60.013	17.973	1.00124.97	O
ATOM	7035	N	SER	902	19.072	59.222	16.035	1.00126.50	N
ATOM	7036	CA	SER	902	20.064	60.228	15.891	1.00126.50	C
ATOM	7037	CB	SER	902	21.106	59.839	14.826	1.00126.50	C
ATOM	7038	OG	SER	902	22.089	60.851	14.691	1.00126.50	O
ATOM	7039	C	SER	902	19.425	61.530	15.477	1.00126.50	C
ATOM	7040	O	SER	902	20.146	62.475	15.166	1.00126.50	O
ATOM	7041	N	SER	903	18.076	61.651	15.425	1.00 80.85	N
ATOM	7042	CA	SER	903	17.587	62.914	14.911	1.00 80.85	C
ATOM	7043	CB	SER	903	17.215	62.855	13.423	1.00 80.85	C
ATOM	7044	OG	SER	903	18.364	62.557	12.645	1.00 80.85	O
ATOM	7045	C	SER	903	16.359	63.377	15.645	1.00 80.85	C
ATOM	7046	O	SER	903	15.885	62.715	16.566	1.00 80.85	O
ATOM	7047	N	PHE	904	15.865	64.585	15.267	1.00140.27	N
ATOM	7048	CA	PHE	904	14.664	65.188	15.798	1.00140.27	C
ATOM	7049	CB	PHE	904	13.438	64.255	15.907	1.00140.27	C
ATOM	7050	CG	PHE	904	12.658	64.330	14.633	1.00140.27	C
ATOM	7051	CD1	PHE	904	13.057	63.688	13.484	1.00140.27	C
ATOM	7052	CD2	PHE	904	11.488	65.057	14.604	1.00140.27	C
ATOM	7053	CE1	PHE	904	12.305	63.784	12.334	1.00140.27	C
ATOM	7054	CE2	PHE	904	10.732	65.155	13.459	1.00140.27	C
ATOM	7055	CZ	PHE	904	11.143	64.517	12.316	1.00140.27	C
ATOM	7056	C	PHE	904	14.929	65.833	17.132	1.00140.27	C
ATOM	7057	O	PHE	904	16.036	66.282	17.424	1.00140.27	O
ATOM	7058	N	ALA	905	13.876	65.864	17.978	1.00105.22	N
ATOM	7059	CA	ALA	905	13.792	66.508	19.264	1.00105.22	C
ATOM	7060	CB	ALA	905	12.480	66.117	19.977	1.00105.22	C
ATOM	7061	C	ALA	905	14.961	66.090	20.105	1.00105.22	C
ATOM	7062	O	ALA	905	15.658	65.139	19.742	1.00105.22	O
ATOM	7063	N	PRO	906	15.239	66.797	21.201	1.00150.10	N
ATOM	7064	CA	PRO	906	16.360	66.473	22.038	1.00150.10	C
ATOM	7065	CD	PRO	906	14.241	67.565	21.935	1.00150.10	C
ATOM	7066	CB	PRO	906	16.261	67.391	23.253	1.00150.10	C
ATOM	7067	CG	PRO	906	14.747	67.615	23.388	1.00150.10	C
ATOM	7068	C	PRO	906	16.149	65.049	22.418	1.00150.10	C
ATOM	7069	O	PRO	906	14.990	64.641	22.412	1.00150.10	O
ATOM	7070	N	ASP	907	17.219	64.319	22.843	1.00208.24	N
ATOM	7071	CA	ASP	907	17.324	62.917	23.237	1.00208.24	C
ATOM	7072	CB	ASP	907	18.746	62.457	23.586	1.00208.24	C
ATOM	7073	CG	ASP	907	19.443	62.089	22.280	1.00208.24	C
ATOM	7074	OD1	ASP	907	18.782	62.153	21.207	1.00208.24	O
ATOM	7075	OD2	ASP	907	20.643	61.712	22.342	1.00208.24	O
ATOM	7076	C	ASP	907	16.428	62.672	24.430	1.00208.24	C
ATOM	7077	O	ASP	907	16.589	61.730	25.200	1.00208.24	O
ATOM	7078	N	TYR	908	15.556	63.644	24.701	1.00312.75	N
ATOM	7079	CA	TYR	908	14.486	63.589	25.617	1.00312.75	C
ATOM	7080	CB	TYR	908	13.922	62.154	25.660	1.00312.75	C
ATOM	7081	CG	TYR	908	12.609	62.048	26.355	1.00312.75	C
ATOM	7082	CD1	TYR	908	12.491	62.206	27.715	1.00312.75	C
ATOM	7083	CD2	TYR	908	11.488	61.735	25.620	1.00312.75	C
ATOM	7084	CE1	TYR	908	11.263	62.082	28.324	1.00312.75	C
ATOM	7085	CE2	TYR	908	10.260	61.610	26.221	1.00312.75	C
ATOM	7086	CZ	TYR	908	10.145	61.785	27.578	1.00312.75	C
ATOM	7087	OH	TYR	908	8.885	61.655	28.200	1.00312.75	O
ATOM	7088	C	TYR	908	15.000	63.921	26.970	1.00312.75	C
ATOM	7089	O	TYR	908	14.221	64.372	27.772	1.00312.75	O
ATOM	7090	N	THR	909	16.296	63.840	27.287	1.00190.86	N
ATOM	7091	CA	THR	909	16.669	64.057	28.668	1.00190.86	C
ATOM	7092	CB	THR	909	18.135	63.812	28.868	1.00190.86	C
ATOM	7093	OG1	THR	909	18.463	62.476	28.512	1.00190.86	O
ATOM	7094	CG2	THR	909	18.491	64.070	30.342	1.00190.86	C
ATOM	7095	C	THR	909	16.360	65.444	29.166	1.00190.86	C
ATOM	7096	O	THR	909	15.415	65.656	29.920	1.00190.86	O
ATOM	7097	N	LYS	910	17.052	66.454	28.624	1.00237.80	N

ATOM	7098	CA	LYS	910	17.022	67.817	29.100	1.00237.80	C
ATOM	7099	CB	LYS	910	17.758	68.744	28.120	1.00237.80	C
ATOM	7100	CG	LYS	910	19.160	68.268	27.721	1.00237.80	C
ATOM	7101	CD	LYS	910	19.181	66.989	26.871	1.00237.80	C
ATOM	7102	CE	LYS	910	18.093	66.947	25.793	1.00237.80	C
ATOM	7103	NZ	LYS	910	17.824	65.546	25.395	1.00237.80	N
ATOM	7104	C	LYS	910	15.597	68.245	29.064	1.00237.80	C
ATOM	7105	O	LYS	910	15.144	69.031	29.898	1.00237.80	O
ATOM	7106	N	ALA	911	14.856	67.732	28.066	1.00 82.29	N
ATOM	7107	CA	ALA	911	13.487	68.125	27.936	1.00 82.29	C
ATOM	7108	CB	ALA	911	12.802	67.475	26.722	1.00 82.29	C
ATOM	7109	C	ALA	911	12.731	67.690	29.159	1.00 82.29	C
ATOM	7110	O	ALA	911	11.951	68.442	29.739	1.00 82.29	O
ATOM	7111	N	LYS	912	12.966	66.452	29.605	1.00124.85	N
ATOM	7112	CA	LYS	912	12.309	65.895	30.750	1.00124.85	C
ATOM	7113	CB	LYS	912	12.794	64.459	31.022	1.00124.85	C
ATOM	7114	CG	LYS	912	12.151	63.764	32.223	1.00124.85	C
ATOM	7115	CD	LYS	912	12.590	62.303	32.349	1.00124.85	C
ATOM	7116	CE	LYS	912	12.063	61.585	33.592	1.00124.85	C
ATOM	7117	NZ	LYS	912	12.813	60.325	33.798	1.00124.85	N
ATOM	7118	C	LYS	912	12.630	66.718	31.971	1.00124.85	C
ATOM	7119	O	LYS	912	11.742	67.051	32.755	1.00124.85	O
ATOM	7120	N	ILE	913	13.908	67.107	32.153	1.00149.85	N
ATOM	7121	CA	ILE	913	14.300	67.832	33.339	1.00149.85	C
ATOM	7122	CB	ILE	913	15.732	68.280	33.272	1.00149.85	C
ATOM	7123	CG1	ILE	913	16.695	67.093	33.085	1.00149.85	C
ATOM	7124	CG2	ILE	913	16.013	69.121	34.528	1.00149.85	C
ATOM	7125	CD1	ILE	913	16.690	66.089	34.236	1.00149.85	C
ATOM	7126	C	ILE	913	13.497	69.080	33.365	1.00149.85	C
ATOM	7127	O	ILE	913	12.879	69.449	34.364	1.00149.85	O
ATOM	7128	N	SER	914	13.461	69.746	32.211	1.00147.03	N
ATOM	7129	CA	SER	914	12.782	70.996	32.137	1.00147.03	C
ATOM	7130	CB	SER	914	12.910	71.581	30.731	1.00147.03	C
ATOM	7131	OG	SER	914	12.234	72.819	30.650	1.00147.03	O
ATOM	7132	C	SER	914	11.321	70.761	32.401	1.00147.03	C
ATOM	7133	O	SER	914	10.654	71.581	33.031	1.00147.03	O
ATOM	7134	N	ALA	915	10.777	69.619	31.932	1.00 83.00	N
ATOM	7135	CA	ALA	915	9.372	69.372	32.097	1.00 83.00	C
ATOM	7136	CB	ALA	915	8.936	68.048	31.451	1.00 83.00	C
ATOM	7137	C	ALA	915	9.018	69.308	33.564	1.00 83.00	C
ATOM	7138	O	ALA	915	8.078	69.963	34.022	1.00 83.00	O
ATOM	7139	N	ALA	916	9.809	68.565	34.363	1.00 68.72	N
ATOM	7140	CA	ALA	916	9.474	68.371	35.745	1.00 68.72	C
ATOM	7141	CB	ALA	916	10.518	67.534	36.503	1.00 68.72	C
ATOM	7142	C	ALA	916	9.407	69.705	36.407	1.00 68.72	C
ATOM	7143	O	ALA	916	8.463	70.001	37.140	1.00 68.72	O
ATOM	7144	N	HIS	917	10.386	70.575	36.115	1.00117.99	N
ATOM	7145	CA	HIS	917	10.429	71.844	36.777	1.00117.99	C
ATOM	7146	ND1	HIS	917	13.508	72.876	37.832	1.00117.99	N
ATOM	7147	CG	HIS	917	12.931	72.409	36.671	1.00117.99	C
ATOM	7148	CB	HIS	917	11.541	72.764	36.241	1.00117.99	C
ATOM	7149	NE2	HIS	917	15.038	71.616	36.825	1.00117.99	N
ATOM	7150	CD2	HIS	917	13.880	71.640	36.069	1.00117.99	C
ATOM	7151	CE1	HIS	917	14.766	72.373	37.874	1.00117.99	C
ATOM	7152	C	HIS	917	9.163	72.613	36.544	1.00117.99	C
ATOM	7153	O	HIS	917	8.475	73.028	37.477	1.00117.99	O
ATOM	7154	N	ILE	918	8.789	72.774	35.269	1.00148.53	N
ATOM	7155	CA	ILE	918	7.683	73.612	34.923	1.00148.53	C
ATOM	7156	CB	ILE	918	7.503	73.687	33.425	1.00148.53	C
ATOM	7157	CG1	ILE	918	6.515	74.789	33.006	1.00148.53	C
ATOM	7158	CG2	ILE	918	7.127	72.288	32.915	1.00148.53	C
ATOM	7159	CD1	ILE	918	5.060	74.491	33.354	1.00148.53	C
ATOM	7160	C	ILE	918	6.458	73.074	35.581	1.00148.53	C
ATOM	7161	O	ILE	918	5.565	73.834	35.958	1.00148.53	O
ATOM	7162	N	ILE	919	6.377	71.737	35.702	1.00 84.65	N
ATOM	7163	CA	ILE	919	5.220	71.101	36.266	1.00 84.65	C
ATOM	7164	CB	ILE	919	5.263	69.600	36.176	1.00 84.65	C
ATOM	7165	CG1	ILE	919	5.229	69.150	34.706	1.00 84.65	C
ATOM	7166	CG2	ILE	919	4.106	69.034	37.017	1.00 84.65	C
ATOM	7167	CD1	ILE	919	5.480	67.655	34.516	1.00 84.65	C
ATOM	7168	C	ILE	919	5.008	71.447	37.710	1.00 84.65	C
ATOM	7169	O	ILE	919	3.888	71.777	38.099	1.00 84.65	O
ATOM	7170	N	MET	920	6.059	71.408	38.553	1.00119.98	N
ATOM	7171	CA	MET	920	5.809	71.662	39.951	1.00119.98	C

ATOM	7172	CB	MET	920	7.076	71.622	40.829	1.00119.98	C
ATOM	7173	CG	MET	920	7.575	70.230	41.225	1.00119.98	C
ATOM	7174	SD	MET	920	8.262	69.208	39.889	1.00119.98	S
ATOM	7175	CE	MET	920	6.795	68.150	39.727	1.00119.98	C
ATOM	7176	C	MET	920	5.234	73.045	40.106	1.00119.98	C
ATOM	7177	O	MET	920	4.304	73.283	40.878	1.00119.98	O
ATOM	7178	N	ILE	921	5.774	73.998	39.339	1.00109.27	N
ATOM	7179	CA	ILE	921	5.383	75.383	39.424	1.00109.27	C
ATOM	7180	CB	ILE	921	6.229	76.216	38.514	1.00109.27	C
ATOM	7181	CG1	ILE	921	7.700	76.090	38.940	1.00109.27	C
ATOM	7182	CG2	ILE	921	5.684	77.653	38.510	1.00109.27	C
ATOM	7183	CD1	ILE	921	8.678	76.531	37.861	1.00109.27	C
ATOM	7184	C	ILE	921	3.968	75.596	39.013	1.00109.27	C
ATOM	7185	O	ILE	921	3.250	76.431	39.571	1.00109.27	O
ATOM	7186	N	ILE	922	3.563	74.889	37.957	1.00 92.34	N
ATOM	7187	CA	ILE	922	2.242	75.025	37.444	1.00 92.34	C
ATOM	7188	CB	ILE	922	2.042	74.358	36.114	1.00 92.34	C
ATOM	7189	CG1	ILE	922	0.723	74.821	35.480	1.00 92.34	C
ATOM	7190	CG2	ILE	922	2.134	72.836	36.289	1.00 92.34	C
ATOM	7191	CD1	ILE	922	0.603	74.401	34.019	1.00 92.34	C
ATOM	7192	C	ILE	922	1.247	74.487	38.414	1.00 92.34	C
ATOM	7193	O	ILE	922	0.109	74.946	38.445	1.00 92.34	O
ATOM	7194	N	GLU	923	1.620	73.457	39.197	1.00136.84	N
ATOM	7195	CA	GLU	923	0.624	72.845	40.035	1.00136.84	C
ATOM	7196	CB	GLU	923	1.208	71.690	40.869	1.00136.84	C
ATOM	7197	CG	GLU	923	1.737	70.547	39.998	1.00136.84	C
ATOM	7198	CD	GLU	923	0.577	70.034	39.156	1.00136.84	C
ATOM	7199	OE1	GLU	923	-0.580	70.436	39.451	1.00136.84	O
ATOM	7200	OE2	GLU	923	0.828	69.242	38.209	1.00136.84	O
ATOM	7201	C	GLU	923	0.006	73.853	40.968	1.00136.84	C
ATOM	7202	O	GLU	923	-1.162	74.198	40.797	1.00136.84	O
ATOM	7203	N	LYS	924	0.795	74.411	41.912	1.00222.76	N
ATOM	7204	CA	LYS	924	0.368	75.435	42.853	1.00222.76	C
ATOM	7205	CB	LYS	924	0.537	76.835	42.266	1.00222.76	C
ATOM	7206	CG	LYS	924	-0.335	76.917	41.022	1.00222.76	C
ATOM	7207	CD	LYS	924	-0.636	78.315	40.517	1.00222.76	C
ATOM	7208	CE	LYS	924	-1.713	78.281	39.439	1.00222.76	C
ATOM	7209	NZ	LYS	924	-1.451	77.155	38.514	1.00222.76	N
ATOM	7210	C	LYS	924	-1.091	75.349	43.315	1.00222.76	C
ATOM	7211	O	LYS	924	-1.733	74.303	43.242	1.00222.76	O
ATOM	7212	N	THR	925	-1.611	76.457	43.936	1.00188.60	N
ATOM	7213	CA	THR	925	-3.009	76.595	44.331	1.00188.60	C
ATOM	7214	CB	THR	925	-3.288	76.106	45.728	1.00188.60	C
ATOM	7215	OG1	THR	925	-4.664	76.274	46.034	1.00188.60	O
ATOM	7216	CG2	THR	925	-2.397	76.835	46.752	1.00188.60	C
ATOM	7217	C	THR	925	-3.451	78.050	44.215	1.00188.60	C
ATOM	7218	O	THR	925	-3.153	78.864	45.086	1.00188.60	O
ATOM	7219	N	PRO	926	-4.253	78.394	43.228	1.00121.05	N
ATOM	7220	CA	PRO	926	-4.622	79.759	42.898	1.00121.05	C
ATOM	7221	CD	PRO	926	-4.901	77.417	42.371	1.00121.05	C
ATOM	7222	CB	PRO	926	-5.728	79.644	41.849	1.00121.05	C
ATOM	7223	CG	PRO	926	-5.523	78.245	41.231	1.00121.05	C
ATOM	7224	C	PRO	926	-5.016	80.593	44.067	1.00121.05	C
ATOM	7225	O	PRO	926	-4.581	81.736	44.191	1.00121.05	O
ATOM	7226	N	LEU	927	-5.912	80.072	44.893	1.00169.50	N
ATOM	7227	CA	LEU	927	-6.274	80.684	46.125	1.00169.50	C
ATOM	7228	CB	LEU	927	-5.107	80.953	47.093	1.00169.50	C
ATOM	7229	CG	LEU	927	-5.641	81.419	48.465	1.00169.50	C
ATOM	7230	CD1	LEU	927	-6.420	80.290	49.159	1.00169.50	C
ATOM	7231	CD2	LEU	927	-4.549	82.019	49.360	1.00169.50	C
ATOM	7232	C	LEU	927	-7.029	81.982	45.967	1.00169.50	C
ATOM	7233	O	LEU	927	-7.709	82.345	46.922	1.00169.50	O
ATOM	7234	N	ILE	928	-6.959	82.734	44.831	1.00279.36	N
ATOM	7235	CA	ILE	928	-7.730	83.970	44.810	1.00279.36	C
ATOM	7236	CB	ILE	928	-6.944	85.114	45.410	1.00279.36	C
ATOM	7237	CG1	ILE	928	-6.246	84.766	46.740	1.00279.36	C
ATOM	7238	CG2	ILE	928	-7.935	86.273	45.613	1.00279.36	C
ATOM	7239	CD1	ILE	928	-7.140	84.805	47.973	1.00279.36	C
ATOM	7240	C	ILE	928	-7.934	84.430	43.377	1.00279.36	C
ATOM	7241	O	ILE	928	-7.479	85.524	43.029	1.00279.36	O
ATOM	7242	N	ASP	929	-8.548	83.628	42.481	1.00136.13	N
ATOM	7243	CA	ASP	929	-8.717	84.135	41.139	1.00136.13	C
ATOM	7244	CB	ASP	929	-8.851	82.995	40.112	1.00136.13	C
ATOM	7245	CG	ASP	929	-8.640	83.540	38.703	1.00136.13	C

ATOM	7246	OD1	ASP	929	-9.434	84.413	38.263	1.00136.13
ATOM	7247	OD2	ASP	929	-7.677	83.068	38.042	1.00136.13
ATOM	7248	C	ASP	929	-9.908	85.025	40.977	1.00136.13
ATOM	7249	O	ASP	929	-9.822	86.249	40.864	1.00136.13
ATOM	7250	N	SER	930	-11.090	84.391	41.063	1.00102.95
ATOM	7251	CA	SER	930	-12.325	85.066	40.829	1.00102.95
ATOM	7252	CB	SER	930	-12.978	84.745	39.478	1.00102.95
ATOM	7253	OG	SER	930	-14.193	85.468	39.352	1.00102.95
ATOM	7254	C	SER	930	-13.232	84.543	41.855	1.00102.95
ATOM	7255	O	SER	930	-12.930	83.543	42.500	1.00102.95
ATOM	7256	N	TYR	931	-14.339	85.257	42.073	1.00136.60
ATOM	7257	CA	TYR	931	-15.275	84.815	43.047	1.00136.60
ATOM	7258	CB	TYR	931	-14.924	85.189	44.498	1.00136.60
ATOM	7259	CG	TYR	931	-13.636	84.593	44.916	1.00136.60
ATOM	7260	CD1	TYR	931	-13.566	83.243	45.150	1.00136.60
ATOM	7261	CD2	TYR	931	-12.524	85.382	45.096	1.00136.60
ATOM	7262	CE1	TYR	931	-12.386	82.672	45.543	1.00136.60
ATOM	7263	CE2	TYR	931	-11.338	84.818	45.490	1.00136.60
ATOM	7264	CZ	TYR	931	-11.279	83.464	45.710	1.00136.60
ATOM	7265	OH	TYR	931	-10.075	82.872	46.116	1.00136.60
ATOM	7266	C	TYR	931	-16.486	85.641	42.849	1.00136.60
ATOM	7267	O	TYR	931	-16.619	86.400	41.893	1.00136.60
ATOM	7268	N	SER	932	-17.385	85.506	43.831	1.00120.06
ATOM	7269	CA	SER	932	-18.551	86.307	43.979	1.00120.06
ATOM	7270	CB	SER	932	-19.854	85.494	44.041	1.00120.06
ATOM	7271	OG	SER	932	-20.960	86.371	44.194	1.00120.06
ATOM	7272	C	SER	932	-18.342	86.904	45.329	1.00120.06
ATOM	7273	O	SER	932	-17.915	88.053	45.443	1.00120.06
ATOM	7274	N	THR	933	-18.728	86.137	46.375	1.00115.70
ATOM	7275	CA	THR	933	-18.514	86.427	47.767	1.00115.70
ATOM	7276	CB	THR	933	-17.162	86.002	48.274	1.00115.70
ATOM	7277	OG1	THR	933	-16.140	86.450	47.400	1.00115.70
ATOM	7278	CG2	THR	933	-17.130	84.467	48.394	1.00115.70
ATOM	7279	C	THR	933	-18.804	87.854	48.018	1.00115.70
ATOM	7280	O	THR	933	-18.201	88.464	48.901	1.00115.70
ATOM	7281	N	GLU	934	-19.787	88.367	47.244	1.00204.93
ATOM	7282	CA	GLU	934	-20.188	89.737	47.235	1.00204.93
ATOM	7283	CB	GLU	934	-19.035	90.689	47.616	1.00204.93
ATOM	7284	CG	GLU	934	-19.144	92.119	47.126	1.00204.93
ATOM	7285	CD	GLU	934	-18.360	92.186	45.823	1.00204.93
ATOM	7286	OE1	GLU	934	-18.157	91.120	45.185	1.00204.93
ATOM	7287	OE2	GLU	934	-17.957	93.317	45.444	1.00204.93
ATOM	7288	C	GLU	934	-20.619	90.088	45.847	1.00204.93
ATOM	7289	O	GLU	934	-20.124	89.562	44.852	1.00204.93
ATOM	7290	N	GLY	935	-21.681	90.899	45.799	1.00 96.81
ATOM	7291	CA	GLY	935	-22.268	91.546	44.665	1.00 96.81
ATOM	7292	C	GLY	935	-21.576	92.835	44.305	1.00 96.81
ATOM	7293	O	GLY	935	-21.760	93.353	43.203	1.00 96.81
ATOM	7294	N	LEU	936	-20.827	93.441	45.252	1.00164.84
ATOM	7295	CA	LEU	936	-20.320	94.778	45.051	1.00164.84
ATOM	7296	CB	LEU	936	-19.575	94.946	43.708	1.00164.84
ATOM	7297	CG	LEU	936	-18.619	96.162	43.567	1.00164.84
ATOM	7298	CD1	LEU	936	-18.144	96.288	42.111	1.00164.84
ATOM	7299	CD2	LEU	936	-19.129	97.489	44.155	1.00164.84
ATOM	7300	C	LEU	936	-21.562	95.622	45.030	1.00164.84
ATOM	7301	O	LEU	936	-21.691	96.626	44.334	1.00164.84
ATOM	7302	N	MET	937	-22.543	95.222	45.854	1.00 90.95
ATOM	7303	CA	MET	937	-23.795	95.913	45.839	1.00 90.95
ATOM	7304	CB	MET	937	-24.832	95.300	46.794	1.00 90.95
ATOM	7305	CG	MET	937	-25.271	93.924	46.290	1.00 90.95
ATOM	7306	SD	MET	937	-26.260	92.907	47.420	1.00 90.95
ATOM	7307	CE	MET	937	-25.841	91.380	46.527	1.00 90.95
ATOM	7308	C	MET	937	-23.603	97.355	46.157	1.00 90.95
ATOM	7309	O	MET	937	-22.799	97.735	47.009	1.00 90.95
ATOM	7310	N	PRO	938	-24.306	98.182	45.423	1.00158.51
ATOM	7311	CA	PRO	938	-24.226	99.579	45.707	1.00158.51
ATOM	7312	CD	PRO	938	-24.572	97.930	44.015	1.00158.51
ATOM	7313	CB	PRO	938	-24.929	100.284	44.551	1.00158.51
ATOM	7314	CG	PRO	938	-24.689	99.322	43.367	1.00158.51
ATOM	7315	C	PRO	938	-24.784	99.810	47.070	1.00158.51
ATOM	7316	O	PRO	938	-25.998	99.945	47.214	1.00158.51
ATOM	7317	N	ASN	939	-23.905	99.875	48.086	1.00193.15
ATOM	7318	CA	ASN	939	-24.333	100.126	49.432	1.00193.15
ATOM	7319	CB	ASN	939	-25.571	99.315	49.866	1.00193.15

ATOM	7320	CG	ASN	939	-25.233	97.833	49.917	1.00193.15	C
ATOM	7321	OD1	ASN	939	-25.167	97.157	48.892	1.00193.15	O
ATOM	7322	ND2	ASN	939	-25.018	97.307	51.152	1.00193.15	N
ATOM	7323	C	ASN	939	-23.186	99.732	50.312	1.00193.15	C
ATOM	7324	O	ASN	939	-23.067	100.183	51.450	1.00193.15	O
ATOM	7325	N	THR	940	-22.287	98.908	49.740	1.00172.36	N
ATOM	7326	CA	THR	940	-21.107	98.327	50.319	1.00172.36	C
ATOM	7327	CB	THR	940	-20.434	97.319	49.434	1.00172.36	C
ATOM	7328	OG1	THR	940	-19.397	96.666	50.149	1.00172.36	O
ATOM	7329	CG2	THR	940	-19.858	98.034	48.199	1.00172.36	C
ATOM	7330	C	THR	940	-20.125	99.423	50.570	1.00172.36	C
ATOM	7331	O	THR	940	-19.016	99.182	51.039	1.00172.36	O
ATOM	7332	N	LEU	941	-20.492	100.643	50.149	1.00132.01	N
ATOM	7333	CA	LEU	941	-19.704	101.843	50.212	1.00132.01	C
ATOM	7334	CB	LEU	941	-20.387	103.057	49.545	1.00132.01	C
ATOM	7335	CG	LEU	941	-20.514	102.971	48.010	1.00132.01	C
ATOM	7336	CD1	LEU	941	-21.490	101.867	47.572	1.00132.01	C
ATOM	7337	CD2	LEU	941	-20.855	104.344	47.406	1.00132.01	C
ATOM	7338	C	LEU	941	-19.333	102.275	51.609	1.00132.01	C
ATOM	7339	O	LEU	941	-18.364	103.021	51.747	1.00132.01	O
ATOM	7340	N	GLU	942	-20.075	101.884	52.674	1.00124.93	N
ATOM	7341	CA	GLU	942	-19.799	102.455	53.979	1.00124.93	C
ATOM	7342	CB	GLU	942	-20.649	101.843	55.106	1.00124.93	C
ATOM	7343	CG	GLU	942	-22.082	102.373	55.117	1.00124.93	C
ATOM	7344	CD	GLU	942	-21.984	103.852	55.460	1.00124.93	C
ATOM	7345	OE1	GLU	942	-21.220	104.170	56.408	1.00124.93	O
ATOM	7346	OE2	GLU	942	-22.646	104.679	54.779	1.00124.93	O
ATOM	7347	C	GLU	942	-18.349	102.321	54.376	1.00124.93	C
ATOM	7348	O	GLU	942	-17.677	103.338	54.542	1.00124.93	O
ATOM	7349	N	GLY	943	-17.788	101.098	54.456	1.00 52.53	N
ATOM	7350	CA	GLY	943	-16.379	101.019	54.749	1.00 52.53	C
ATOM	7351	C	GLY	943	-16.040	100.980	56.219	1.00 52.53	C
ATOM	7352	O	GLY	943	-15.035	101.562	56.630	1.00 52.53	O
ATOM	7353	N	ASN	944	-16.858	100.308	57.057	1.00 67.30	N
ATOM	7354	CA	ASN	944	-16.508	100.147	58.448	1.00 67.30	C
ATOM	7355	CB	ASN	944	-17.728	100.053	59.383	1.00 67.30	C
ATOM	7356	CG	ASN	944	-18.364	101.430	59.519	1.00 67.30	C
ATOM	7357	OD1	ASN	944	-18.896	101.988	58.560	1.00 67.30	O
ATOM	7358	ND2	ASN	944	-18.315	101.996	60.755	1.00 67.30	N
ATOM	7359	C	ASN	944	-15.765	98.840	58.557	1.00 67.30	C
ATOM	7360	O	ASN	944	-16.289	97.796	58.169	1.00 67.30	O
ATOM	7361	N	VAL	945	-14.520	98.861	59.096	1.00 61.07	N
ATOM	7362	CA	VAL	945	-13.704	97.669	59.141	1.00 61.07	C
ATOM	7363	CB	VAL	945	-12.241	97.950	58.951	1.00 61.07	C
ATOM	7364	CG1	VAL	945	-11.474	96.623	59.069	1.00 61.07	C
ATOM	7365	CG2	VAL	945	-12.044	98.675	57.608	1.00 61.07	C
ATOM	7366	C	VAL	945	-13.842	96.937	60.450	1.00 61.07	C
ATOM	7367	O	VAL	945	-13.843	97.533	61.527	1.00 61.07	O
ATOM	7368	N	THR	946	-13.929	95.589	60.392	1.00 54.46	N
ATOM	7369	CA	THR	946	-14.089	94.846	61.608	1.00 54.46	C
ATOM	7370	CB	THR	946	-15.416	94.151	61.719	1.00 54.46	C
ATOM	7371	OG1	THR	946	-16.476	95.092	61.637	1.00 54.46	O
ATOM	7372	CG2	THR	946	-15.467	93.414	63.067	1.00 54.46	C
ATOM	7373	C	THR	946	-13.031	93.795	61.715	1.00 54.46	C
ATOM	7374	O	THR	946	-12.865	92.968	60.817	1.00 54.46	O
ATOM	7375	N	PHE	947	-12.271	93.799	62.827	1.00 84.89	N
ATOM	7376	CA	PHE	947	-11.300	92.769	63.046	1.00 84.89	C
ATOM	7377	CB	PHE	947	-9.856	93.273	63.257	1.00 84.89	C
ATOM	7378	CG	PHE	947	-9.187	93.463	61.935	1.00 84.89	C
ATOM	7379	CD1	PHE	947	-8.662	92.367	61.293	1.00 84.89	C
ATOM	7380	CD2	PHE	947	-9.053	94.698	61.347	1.00 84.89	C
ATOM	7381	CE1	PHE	947	-8.033	92.486	60.078	1.00 84.89	C
ATOM	7382	CE2	PHE	947	-8.423	94.825	60.129	1.00 84.89	C
ATOM	7383	CZ	PHE	947	-7.911	93.720	59.490	1.00 84.89	C
ATOM	7384	C	PHE	947	-11.685	92.043	64.291	1.00 84.89	C
ATOM	7385	O	PHE	947	-11.759	92.630	65.372	1.00 84.89	O
ATOM	7386	N	GLY	948	-11.918	90.721	64.178	1.00 42.09	N
ATOM	7387	CA	GLY	948	-12.318	90.013	65.356	1.00 42.09	C
ATOM	7388	C	GLY	948	-11.528	88.750	65.486	1.00 42.09	C
ATOM	7389	O	GLY	948	-11.417	87.948	64.562	1.00 42.09	O
ATOM	7390	N	GLU	949	-10.939	88.587	66.681	1.00140.22	N
ATOM	7391	CA	GLU	949	-10.211	87.453	67.170	1.00140.22	C
ATOM	7392	CB	GLU	949	-11.019	86.143	67.173	1.00140.22	C
ATOM	7393	CG	GLU	949	-10.303	85.018	67.928	1.00140.22	C

ATOM	7394	CD	GLU	949	-11.238	83.822	68.010	1.00140.22	C
ATOM	7395	OE1	GLU	949	-12.449	84.037	68.283	1.00140.22	O
ATOM	7396	OE2	GLU	949	-10.754	82.677	67.800	1.00140.22	O
ATOM	7397	C	GLU	949	-8.953	87.234	66.401	1.00140.22	C
ATOM	7398	O	GLU	949	-8.078	86.539	66.912	1.00140.22	O
ATOM	7399	N	VAL	950	-8.773	87.975	65.281	1.00 89.22	N
ATOM	7400	CA	VAL	950	-7.718	87.830	64.307	1.00 89.22	C
ATOM	7401	CB	VAL	950	-7.434	89.138	63.616	1.00 89.22	C
ATOM	7402	CG1	VAL	950	-6.244	88.967	62.661	1.00 89.22	C
ATOM	7403	CG2	VAL	950	-8.727	89.625	62.936	1.00 89.22	C
ATOM	7404	C	VAL	950	-6.435	87.348	64.926	1.00 89.22	C
ATOM	7405	O	VAL	950	-5.788	88.051	65.702	1.00 89.22	O
ATOM	7406	N	VAL	951	-6.058	86.091	64.587	1.00 59.36	N
ATOM	7407	CA	VAL	951	-4.846	85.470	65.063	1.00 59.36	C
ATOM	7408	CB	VAL	951	-5.084	84.254	65.909	1.00 59.36	C
ATOM	7409	CG1	VAL	951	-5.844	84.684	67.177	1.00 59.36	C
ATOM	7410	CG2	VAL	951	-5.829	83.201	65.071	1.00 59.36	C
ATOM	7411	C	VAL	951	-4.095	85.022	63.839	1.00 59.36	C
ATOM	7412	O	VAL	951	-4.702	84.476	62.920	1.00 59.36	O
ATOM	7413	N	PHE	952	-2.756	85.235	63.776	1.00108.68	N
ATOM	7414	CA	PHE	952	-2.104	84.893	62.535	1.00108.68	C
ATOM	7415	CB	PHE	952	-2.685	85.771	61.414	1.00108.68	C
ATOM	7416	CG	PHE	952	-1.725	85.890	60.289	1.00108.68	C
ATOM	7417	CD1	PHE	952	-1.599	84.906	59.338	1.00108.68	C
ATOM	7418	CD2	PHE	952	-0.962	87.031	60.190	1.00108.68	C
ATOM	7419	CE1	PHE	952	-0.702	85.058	58.308	1.00108.68	C
ATOM	7420	CE2	PHE	952	-0.065	87.190	59.164	1.00108.68	C
ATOM	7421	CZ	PHE	952	0.062	86.200	58.218	1.00108.68	C
ATOM	7422	C	PHE	952	-0.604	85.084	62.542	1.00108.68	C
ATOM	7423	O	PHE	952	-0.082	86.002	63.174	1.00108.68	O
ATOM	7424	N	ASN	953	0.125	84.195	61.812	1.00 80.07	N
ATOM	7425	CA	ASN	953	1.551	84.314	61.622	1.00 80.07	C
ATOM	7426	CB	ASN	953	2.397	83.449	62.571	1.00 80.07	C
ATOM	7427	CG	ASN	953	3.864	83.740	62.278	1.00 80.07	C
ATOM	7428	OD1	ASN	953	4.533	82.975	61.585	1.00 80.07	O
ATOM	7429	ND2	ASN	953	4.377	84.888	62.796	1.00 80.07	N
ATOM	7430	C	ASN	953	1.894	83.890	60.217	1.00 80.07	C
ATOM	7431	O	ASN	953	1.649	82.750	59.822	1.00 80.07	O
ATOM	7432	N	TYR	954	2.528	84.794	59.436	1.00102.48	N
ATOM	7433	CA	TYR	954	2.876	84.484	58.072	1.00102.48	C
ATOM	7434	CB	TYR	954	3.576	85.639	57.325	1.00102.48	C
ATOM	7435	CG	TYR	954	4.663	86.182	58.190	1.00102.48	C
ATOM	7436	CD1	TYR	954	4.327	87.011	59.235	1.00102.48	C
ATOM	7437	CD2	TYR	954	5.991	85.895	57.964	1.00102.48	C
ATOM	7438	CE1	TYR	954	5.293	87.540	60.054	1.00102.48	C
ATOM	7439	CE2	TYR	954	6.964	86.422	58.783	1.00102.48	C
ATOM	7440	CZ	TYR	954	6.614	87.244	59.829	1.00102.48	C
ATOM	7441	OH	TYR	954	7.605	87.789	60.673	1.00102.48	O
ATOM	7442	C	TYR	954	3.744	83.282	58.076	1.00102.48	C
ATOM	7443	O	TYR	954	4.698	83.201	58.850	1.00102.48	O
ATOM	7444	N	PRO	955	3.429	82.367	57.192	1.00135.09	N
ATOM	7445	CA	PRO	955	4.018	81.061	57.133	1.00135.09	C
ATOM	7446	CD	PRO	955	2.429	82.577	56.158	1.00135.09	C
ATOM	7447	CB	PRO	955	3.571	80.455	55.804	1.00135.09	C
ATOM	7448	CG	PRO	955	2.249	81.191	55.506	1.00135.09	C
ATOM	7449	C	PRO	955	5.484	81.051	57.384	1.00135.09	C
ATOM	7450	O	PRO	955	6.301	81.282	56.495	1.00135.09	O
ATOM	7451	N	THR	956	5.767	80.816	58.669	1.00236.82	N
ATOM	7452	CA	THR	956	6.999	80.655	59.360	1.00236.82	C
ATOM	7453	CB	THR	956	7.896	81.852	59.266	1.00236.82	C
ATOM	7454	OG1	THR	956	9.143	81.572	59.884	1.00236.82	O
ATOM	7455	CG2	THR	956	7.213	83.048	59.951	1.00236.82	C
ATOM	7456	C	THR	956	6.464	80.599	60.752	1.00236.82	C
ATOM	7457	O	THR	956	7.122	80.957	61.727	1.00236.82	O
ATOM	7458	N	ARG	957	5.251	80.018	60.831	1.00145.19	N
ATOM	7459	CA	ARG	957	4.339	79.965	61.939	1.00145.19	C
ATOM	7460	CB	ARG	957	3.064	79.163	61.611	1.00145.19	C
ATOM	7461	CG	ARG	957	2.061	79.079	62.765	1.00145.19	C
ATOM	7462	CD	ARG	957	0.630	78.764	62.310	1.00145.19	C
ATOM	7463	NE	ARG	957	0.714	77.939	61.071	1.00145.19	N
ATOM	7464	CZ	ARG	957	-0.426	77.543	60.432	1.00145.19	C
ATOM	7465	NH1	ARG	957	-1.649	77.864	60.947	1.00145.19	N
ATOM	7466	NH2	ARG	957	-0.341	76.826	59.274	1.00145.19	N
ATOM	7467	C	ARG	957	4.985	79.395	63.164	1.00145.19	C

ATOM	7468	O	ARG	957	4.499	79.690	64.253	1.00145.19	O
ATOM	7469	N	PRO	958	6.007	78.588	63.111	1.00 94.64	N
ATOM	7470	CA	PRO	958	6.592	78.137	64.342	1.00 94.64	C
ATOM	7471	CD	PRO	958	6.204	77.600	62.065	1.00 94.64	C
ATOM	7472	CB	PRO	958	7.650	77.103	63.945	1.00 94.64	C
ATOM	7473	CG	PRO	958	7.591	77.041	62.402	1.00 94.64	C
ATOM	7474	C	PRO	958	7.092	79.298	65.147	1.00 94.64	C
ATOM	7475	O	PRO	958	7.292	79.154	66.352	1.00 94.64	O
ATOM	7476	N	ASP	959	7.293	80.453	64.493	1.00151.96	N
ATOM	7477	CA	ASP	959	7.711	81.686	65.095	1.00151.96	C
ATOM	7478	CB	ASP	959	8.021	82.794	64.071	1.00151.96	C
ATOM	7479	CG	ASP	959	9.351	82.481	63.403	1.00151.96	C
ATOM	7480	OD1	ASP	959	10.123	81.668	63.978	1.00151.96	O
ATOM	7481	OD2	ASP	959	9.618	83.055	62.314	1.00151.96	O
ATOM	7482	C	ASP	959	6.579	82.174	65.946	1.00151.96	C
ATOM	7483	O	ASP	959	6.669	83.227	66.575	1.00151.96	O
ATOM	7484	N	ILE	960	5.422	81.489	65.899	1.00175.84	N
ATOM	7485	CA	ILE	960	4.295	81.965	66.648	1.00175.84	C
ATOM	7486	CB	ILE	960	4.574	82.306	68.093	1.00175.84	C
ATOM	7487	CG1	ILE	960	4.814	81.033	68.923	1.00175.84	C
ATOM	7488	CG2	ILE	960	3.403	83.152	68.622	1.00175.84	C
ATOM	7489	CD1	ILE	960	6.094	80.274	68.581	1.00175.84	C
ATOM	7490	C	ILE	960	3.796	83.176	65.930	1.00175.84	C
ATOM	7491	O	ILE	960	4.548	83.864	65.244	1.00175.84	O
ATOM	7492	N	PRO	961	2.509	83.370	65.995	1.00 91.55	N
ATOM	7493	CA	PRO	961	1.909	84.495	65.326	1.00 91.55	C
ATOM	7494	CD	PRO	961	1.633	82.206	65.990	1.00 91.55	C
ATOM	7495	CB	PRO	961	0.423	84.157	65.239	1.00 91.55	C
ATOM	7496	CG	PRO	961	0.391	82.623	65.193	1.00 91.55	C
ATOM	7497	C	PRO	961	2.163	85.843	65.941	1.00 91.55	C
ATOM	7498	O	PRO	961	2.371	85.930	67.150	1.00 91.55	O
ATOM	7499	N	VAL	962	2.209	86.889	65.088	1.00 81.23	N
ATOM	7500	CA	VAL	962	2.327	88.283	65.426	1.00 81.23	C
ATOM	7501	CB	VAL	962	2.747	89.144	64.270	1.00 81.23	C
ATOM	7502	CG1	VAL	962	4.158	88.718	63.838	1.00 81.23	C
ATOM	7503	CG2	VAL	962	1.691	89.039	63.156	1.00 81.23	C
ATOM	7504	C	VAL	962	0.994	88.773	65.888	1.00 81.23	C
ATOM	7505	O	VAL	962	0.899	89.830	66.510	1.00 81.23	O
ATOM	7506	N	LEU	963	-0.086	88.073	65.486	1.00 95.68	N
ATOM	7507	CA	LEU	963	-1.396	88.504	65.874	1.00 95.68	C
ATOM	7508	CB	LEU	963	-2.336	88.666	64.675	1.00 95.68	C
ATOM	7509	CG	LEU	963	-1.728	89.456	63.503	1.00 95.68	C
ATOM	7510	CD1	LEU	963	-2.785	89.749	62.434	1.00 95.68	C
ATOM	7511	CD2	LEU	963	-0.971	90.706	63.963	1.00 95.68	C
ATOM	7512	C	LEU	963	-1.986	87.390	66.673	1.00 95.68	C
ATOM	7513	O	LEU	963	-2.312	86.341	66.120	1.00 95.68	O
ATOM	7514	N	GLN	964	-2.146	87.567	67.997	1.00 74.33	N
ATOM	7515	CA	GLN	964	-2.765	86.496	68.713	1.00 74.33	C
ATOM	7516	CB	GLN	964	-1.833	85.749	69.684	1.00 74.33	C
ATOM	7517	CG	GLN	964	-1.268	86.594	70.824	1.00 74.33	C
ATOM	7518	CD	GLN	964	-0.564	85.641	71.777	1.00 74.33	C
ATOM	7519	OE1	GLN	964	0.239	84.807	71.361	1.00 74.33	O
ATOM	7520	NE2	GLN	964	-0.885	85.753	73.094	1.00 74.33	N
ATOM	7521	C	GLN	964	-3.939	87.038	69.466	1.00 74.33	C
ATOM	7522	O	GLN	964	-3.794	87.614	70.544	1.00 74.33	O
ATOM	7523	N	GLY	965	-5.154	86.818	68.919	1.00 34.41	N
ATOM	7524	CA	GLY	965	-6.357	87.262	69.565	1.00 34.41	C
ATOM	7525	C	GLY	965	-6.526	88.743	69.425	1.00 34.41	C
ATOM	7526	O	GLY	965	-6.756	89.440	70.412	1.00 34.41	O
ATOM	7527	N	LEU	966	-6.429	89.274	68.189	1.00 61.24	N
ATOM	7528	CA	LEU	966	-6.530	90.699	68.009	1.00 61.24	C
ATOM	7529	CB	LEU	966	-5.553	91.237	66.954	1.00 61.24	C
ATOM	7530	CG	LEU	966	-5.644	92.757	66.752	1.00 61.24	C
ATOM	7531	CD1	LEU	966	-5.200	93.516	68.012	1.00 61.24	C
ATOM	7532	CD2	LEU	966	-4.891	93.198	65.484	1.00 61.24	C
ATOM	7533	C	LEU	966	-7.916	91.071	67.563	1.00 61.24	C
ATOM	7534	O	LEU	966	-8.554	90.332	66.819	1.00 61.24	O
ATOM	7535	N	SER	967	-8.424	92.230	68.045	1.00 62.00	N
ATOM	7536	CA	SER	967	-9.716	92.713	67.642	1.00 62.00	C
ATOM	7537	CB	SER	967	-10.857	92.167	68.517	1.00 62.00	C
ATOM	7538	OG	SER	967	-10.909	90.750	68.421	1.00 62.00	O
ATOM	7539	C	SER	967	-9.752	94.218	67.746	1.00 62.00	C
ATOM	7540	O	SER	967	-9.507	94.787	68.809	1.00 62.00	O
ATOM	7541	N	LEU	968	-10.079	94.899	66.624	1.00123.94	N

ATOM	7542	CA	LEU	968	-10.179	96.335	66.570	1.00123.94	C
ATOM	7543	CB	LEU	968	-8.923	97.034	66.021	1.00123.94	C
ATOM	7544	CG	LEU	968	-7.634	96.702	66.795	1.00123.94	C
ATOM	7545	CD1	LEU	968	-7.765	97.040	68.288	1.00123.94	C
ATOM	7546	CD2	LEU	968	-7.187	95.259	66.538	1.00123.94	C
ATOM	7547	C	LEU	968	-11.285	96.623	65.603	1.00123.94	C
ATOM	7548	O	LEU	968	-11.993	95.717	65.168	1.00123.94	O
ATOM	7549	N	GLU	969	-11.491	97.909	65.266	1.00120.85	N
ATOM	7550	CA	GLU	969	-12.520	98.256	64.329	1.00120.85	C
ATOM	7551	CB	GLU	969	-13.899	98.395	64.970	1.00120.85	C
ATOM	7552	CG	GLU	969	-13.856	99.551	65.968	1.00120.85	C
ATOM	7553	CD	GLU	969	-15.255	100.080	66.207	1.00120.85	C
ATOM	7554	OE1	GLU	969	-16.170	99.756	65.406	1.00120.85	O
ATOM	7555	OE2	GLU	969	-15.417	100.837	67.199	1.00120.85	O
ATOM	7556	C	GLU	969	-12.240	99.655	63.900	1.00120.85	C
ATOM	7557	O	GLU	969	-11.384	100.335	64.466	1.00120.85	O
ATOM	7558	N	VAL	970	-12.968	100.116	62.866	1.00124.43	N
ATOM	7559	CA	VAL	970	-12.835	101.476	62.445	1.00124.43	C
ATOM	7560	CB	VAL	970	-11.765	101.640	61.398	1.00124.43	C
ATOM	7561	CG1	VAL	970	-12.192	100.894	60.123	1.00124.43	C
ATOM	7562	CG2	VAL	970	-11.471	103.133	61.192	1.00124.43	C
ATOM	7563	C	VAL	970	-14.162	101.905	61.884	1.00124.43	C
ATOM	7564	O	VAL	970	-14.752	101.228	61.042	1.00124.43	O
ATOM	7565	N	LYS	971	-14.646	103.082	62.322	1.00108.60	N
ATOM	7566	CA	LYS	971	-15.908	103.627	61.906	1.00108.60	C
ATOM	7567	CB	LYS	971	-16.276	104.918	62.660	1.00108.60	C
ATOM	7568	CG	LYS	971	-16.408	104.722	64.174	1.00108.60	C
ATOM	7569	CD	LYS	971	-15.073	104.452	64.878	1.00108.60	C
ATOM	7570	CE	LYS	971	-15.215	104.069	66.355	1.00108.60	C
ATOM	7571	NZ	LYS	971	-13.878	103.838	66.951	1.00108.60	N
ATOM	7572	C	LYS	971	-15.800	103.958	60.449	1.00108.60	C
ATOM	7573	O	LYS	971	-14.942	103.433	59.742	1.00108.60	O
ATOM	7574	N	LYS	972	-16.725	104.797	59.942	1.00136.67	N
ATOM	7575	CA	LYS	972	-16.688	105.136	58.546	1.00136.67	C
ATOM	7576	CB	LYS	972	-18.065	105.106	57.861	1.00136.67	C
ATOM	7577	CG	LYS	972	-19.017	106.159	58.433	1.00136.67	C
ATOM	7578	CD	LYS	972	-20.249	106.449	57.575	1.00136.67	C
ATOM	7579	CE	LYS	972	-20.085	107.641	56.624	1.00136.67	C
ATOM	7580	NZ	LYS	972	-19.592	107.184	55.305	1.00136.67	N
ATOM	7581	C	LYS	972	-16.190	106.541	58.389	1.00136.67	C
ATOM	7582	O	LYS	972	-16.155	107.327	59.333	1.00136.67	O
ATOM	7583	N	GLY	973	-15.702	106.847	57.171	1.00 53.07	N
ATOM	7584	CA	GLY	973	-15.304	108.166	56.770	1.00 53.07	C
ATOM	7585	C	GLY	973	-14.395	108.768	57.797	1.00 53.07	C
ATOM	7586	O	GLY	973	-14.340	109.993	57.911	1.00 53.07	O
ATOM	7587	N	GLN	974	-13.633	107.951	58.550	1.00138.54	N
ATOM	7588	CA	GLN	974	-12.838	108.502	59.616	1.00138.54	C
ATOM	7589	CB	GLN	974	-13.527	108.334	60.985	1.00138.54	C
ATOM	7590	CG	GLN	974	-14.134	106.951	61.234	1.00138.54	C
ATOM	7591	CD	GLN	974	-13.054	105.894	61.260	1.00138.54	C
ATOM	7592	OE1	GLN	974	-12.452	105.571	60.238	1.00138.54	O
ATOM	7593	NE2	GLN	974	-12.821	105.318	62.467	1.00138.54	N
ATOM	7594	C	GLN	974	-11.405	108.028	59.606	1.00138.54	C
ATOM	7595	O	GLN	974	-10.839	107.782	58.541	1.00138.54	O
ATOM	7596	N	THR	975	-10.732	107.979	60.786	1.00 83.81	N
ATOM	7597	CA	THR	975	-9.335	107.613	60.745	1.00 83.81	C
ATOM	7598	CB	THR	975	-8.427	108.808	60.777	1.00 83.81	C
ATOM	7599	OG1	THR	975	-8.716	109.673	59.689	1.00 83.81	O
ATOM	7600	CG2	THR	975	-6.970	108.325	60.697	1.00 83.81	C
ATOM	7601	C	THR	975	-8.920	106.742	61.898	1.00 83.81	C
ATOM	7602	O	THR	975	-8.850	107.192	63.043	1.00 83.81	O
ATOM	7603	N	LEU	976	-8.538	105.480	61.596	1.00117.22	N
ATOM	7604	CA	LEU	976	-8.105	104.571	62.622	1.00117.22	C
ATOM	7605	CB	LEU	976	-8.390	103.093	62.284	1.00117.22	C
ATOM	7606	CG	LEU	976	-8.106	102.094	63.428	1.00117.22	C
ATOM	7607	CD1	LEU	976	-6.606	101.978	63.751	1.00117.22	C
ATOM	7608	CD2	LEU	976	-8.967	102.420	64.661	1.00117.22	C
ATOM	7609	C	LEU	976	-6.623	104.755	62.774	1.00117.22	C
ATOM	7610	O	LEU	976	-5.850	104.534	61.841	1.00117.22	O
ATOM	7611	N	ALA	977	-6.192	105.152	63.988	1.00 53.62	N
ATOM	7612	CA	ALA	977	-4.807	105.450	64.235	1.00 53.62	C
ATOM	7613	CB	ALA	977	-4.607	106.593	65.247	1.00 53.62	C
ATOM	7614	C	ALA	977	-4.114	104.245	64.775	1.00 53.62	C
ATOM	7615	O	ALA	977	-4.547	103.624	65.745	1.00 53.62	O

ATOM	7616	N	LEU	978	-2.982	103.877	64.152	1.00	95.67	N
ATOM	7617	CA	LEU	978	-2.356	102.705	64.665	1.00	95.67	C
ATOM	7618	CB	LEU	978	-2.387	101.532	63.683	1.00	95.67	C
ATOM	7619	CG	LEU	978	-1.719	100.256	64.215	1.00	95.67	C
ATOM	7620	CD1	LEU	978	-2.253	99.874	65.599	1.00	95.67	C
ATOM	7621	CD2	LEU	978	-1.915	99.112	63.216	1.00	95.67	C
ATOM	7622	C	LEU	978	-0.957	102.990	65.106	1.00	95.67	C
ATOM	7623	O	LEU	978	-0.142	103.554	64.374	1.00	95.67	O
ATOM	7624	N	VAL	979	-0.674	102.625	66.373	1.00	122.49	N
ATOM	7625	CA	VAL	979	0.644	102.757	66.916	1.00	122.49	C
ATOM	7626	CB	VAL	979	0.752	103.844	67.950	1.00	122.49	C
ATOM	7627	CG1	VAL	979	-0.291	103.608	69.059	1.00	122.49	C
ATOM	7628	CG2	VAL	979	2.202	103.874	68.458	1.00	122.49	C
ATOM	7629	C	VAL	979	1.016	101.444	67.539	1.00	122.49	C
ATOM	7630	O	VAL	979	0.431	101.020	68.536	1.00	122.49	O
ATOM	7631	N	GLY	980	2.005	100.749	66.941	1.00	49.89	N
ATOM	7632	CA	GLY	980	2.414	99.472	67.459	1.00	49.89	C
ATOM	7633	C	GLY	980	3.811	99.554	68.000	1.00	49.89	C
ATOM	7634	O	GLY	980	4.343	100.636	68.251	1.00	49.89	O
ATOM	7635	N	SER	981	4.411	98.362	68.228	1.00	113.56	N
ATOM	7636	CA	SER	981	5.759	98.223	68.707	1.00	113.56	C
ATOM	7637	CB	SER	981	6.153	96.760	68.954	1.00	113.56	C
ATOM	7638	OG	SER	981	5.215	96.132	69.810	1.00	113.56	O
ATOM	7639	C	SER	981	6.696	98.685	67.648	1.00	113.56	C
ATOM	7640	O	SER	981	7.293	99.757	67.727	1.00	113.56	O
ATOM	7641	N	SER	982	6.841	97.844	66.609	1.00	96.82	N
ATOM	7642	CA	SER	982	7.716	98.164	65.529	1.00	96.82	C
ATOM	7643	CB	SER	982	9.185	98.308	65.953	1.00	96.82	C
ATOM	7644	OG	SER	982	9.678	97.062	66.423	1.00	96.82	O
ATOM	7645	C	SER	982	7.642	97.035	64.559	1.00	96.82	C
ATOM	7646	O	SER	982	7.296	95.910	64.919	1.00	96.82	O
ATOM	7647	N	GLY	983	7.969	97.329	63.287	1.00	32.92	N
ATOM	7648	CA	GLY	983	8.013	96.332	62.260	1.00	32.92	C
ATOM	7649	C	GLY	983	6.678	95.682	62.107	1.00	32.92	C
ATOM	7650	O	GLY	983	5.681	96.316	61.765	1.00	32.92	O
ATOM	7651	N	CYS	984	6.639	94.367	62.377	1.00	58.76	N
ATOM	7652	CA	CYS	984	5.462	93.593	62.147	1.00	58.76	C
ATOM	7653	CB	CYS	984	5.639	92.104	62.489	1.00	58.76	C
ATOM	7654	SG	CYS	984	6.876	91.297	61.430	1.00	58.76	S
ATOM	7655	C	CYS	984	4.337	94.115	62.975	1.00	58.76	C
ATOM	7656	O	CYS	984	4.513	94.959	63.850	1.00	58.76	O
ATOM	7657	N	GLY	985	3.118	93.661	62.632	1.00	46.95	N
ATOM	7658	CA	GLY	985	1.934	94.002	63.361	1.00	46.95	C
ATOM	7659	C	GLY	985	1.152	94.987	62.564	1.00	46.95	C
ATOM	7660	O	GLY	985	0.022	94.720	62.159	1.00	46.95	O
ATOM	7661	N	LYS	986	1.752	96.158	62.303	1.00	62.62	N
ATOM	7662	CA	LYS	986	1.071	97.172	61.556	1.00	62.62	C
ATOM	7663	CB	LYS	986	1.865	98.483	61.529	1.00	62.62	C
ATOM	7664	CG	LYS	986	2.087	99.030	62.938	1.00	62.62	C
ATOM	7665	CD	LYS	986	3.202	100.071	63.031	1.00	62.62	C
ATOM	7666	CE	LYS	986	3.579	100.431	64.469	1.00	62.62	C
ATOM	7667	NZ	LYS	986	4.800	101.269	64.482	1.00	62.62	N
ATOM	7668	C	LYS	986	0.926	96.672	60.158	1.00	62.62	C
ATOM	7669	O	LYS	986	-0.118	96.833	59.526	1.00	62.62	O
ATOM	7670	N	SER	987	2.003	96.047	59.646	1.00	46.54	N
ATOM	7671	CA	SER	987	2.037	95.557	58.302	1.00	46.54	C
ATOM	7672	CB	SER	987	3.416	95.002	57.912	1.00	46.54	C
ATOM	7673	OG	SER	987	3.728	93.869	58.708	1.00	46.54	O
ATOM	7674	C	SER	987	1.051	94.444	58.154	1.00	46.54	C
ATOM	7675	O	SER	987	0.250	94.444	57.223	1.00	46.54	O
ATOM	7676	N	THR	988	1.066	93.483	59.101	1.00	48.24	N
ATOM	7677	CA	THR	988	0.231	92.317	59.010	1.00	48.24	C
ATOM	7678	CB	THR	988	0.412	91.367	60.160	1.00	48.24	C
ATOM	7679	OG1	THR	988	0.049	91.996	61.380	1.00	48.24	O
ATOM	7680	CG2	THR	988	1.882	90.917	60.212	1.00	48.24	C
ATOM	7681	C	THR	988	-1.200	92.739	59.012	1.00	48.24	C
ATOM	7682	O	THR	988	-2.010	92.199	58.263	1.00	48.24	O
ATOM	7683	N	VAL	989	-1.559	93.720	59.859	1.00	52.12	N
ATOM	7684	CA	VAL	989	-2.935	94.117	59.896	1.00	52.12	C
ATOM	7685	CB	VAL	989	-3.193	95.231	60.870	1.00	52.12	C
ATOM	7686	CG1	VAL	989	-4.645	95.709	60.703	1.00	52.12	C
ATOM	7687	CG2	VAL	989	-2.867	94.725	62.285	1.00	52.12	C
ATOM	7688	C	VAL	989	-3.339	94.601	58.539	1.00	52.12	C
ATOM	7689	O	VAL	989	-4.309	94.097	57.973	1.00	52.12	O

ATOM	7690	N	VAL	990	-2.572	95.543	57.946	1.00129.08	N
ATOM	7691	CA	VAL	990	-3.002	96.088	56.686	1.00129.08	C
ATOM	7692	CB	VAL	990	-2.125	97.164	56.111	1.00129.08	C
ATOM	7693	CG1	VAL	990	-2.211	98.383	57.033	1.00129.08	C
ATOM	7694	CG2	VAL	990	-0.699	96.642	55.893	1.00129.08	C
ATOM	7695	C	VAL	990	-3.102	94.994	55.688	1.00129.08	C
ATOM	7696	O	VAL	990	-4.105	94.880	54.985	1.00129.08	O
ATOM	7697	N	GLN	991	-2.096	94.111	55.655	1.00 89.80	N
ATOM	7698	CA	GLN	991	-2.087	93.062	54.688	1.00 89.80	C
ATOM	7699	CB	GLN	991	-0.879	92.140	54.887	1.00 89.80	C
ATOM	7700	CG	GLN	991	0.438	92.875	54.624	1.00 89.80	C
ATOM	7701	CD	GLN	991	1.565	92.080	55.255	1.00 89.80	C
ATOM	7702	OE1	GLN	991	2.694	92.556	55.351	1.00 89.80	O
ATOM	7703	NE2	GLN	991	1.249	90.841	55.715	1.00 89.80	N
ATOM	7704	C	GLN	991	-3.333	92.265	54.873	1.00 89.80	C
ATOM	7705	O	GLN	991	-4.039	92.006	53.906	1.00 89.80	O
ATOM	7706	N	LEU	992	-3.707	91.963	56.128	1.00 70.23	N
ATOM	7707	CA	LEU	992	-4.849	91.126	56.368	1.00 70.23	C
ATOM	7708	CB	LEU	992	-5.159	90.925	57.860	1.00 70.23	C
ATOM	7709	CG	LEU	992	-4.178	89.965	58.554	1.00 70.23	C
ATOM	7710	CD1	LEU	992	-4.512	89.791	60.044	1.00 70.23	C
ATOM	7711	CD2	LEU	992	-4.122	88.624	57.812	1.00 70.23	C
ATOM	7712	C	LEU	992	-6.070	91.718	55.735	1.00 70.23	C
ATOM	7713	O	LEU	992	-6.899	90.982	55.200	1.00 70.23	O
ATOM	7714	N	LEU	993	-6.231	93.054	55.794	1.00 66.09	N
ATOM	7715	CA	LEU	993	-7.374	93.690	55.191	1.00 66.09	C
ATOM	7716	CB	LEU	993	-7.380	95.212	55.389	1.00 66.09	C
ATOM	7717	CG	LEU	993	-8.514	95.893	54.604	1.00 66.09	C
ATOM	7718	CD1	LEU	993	-9.892	95.408	55.083	1.00 66.09	C
ATOM	7719	CD2	LEU	993	-8.368	97.422	54.616	1.00 66.09	C
ATOM	7720	C	LEU	993	-7.298	93.451	53.724	1.00 66.09	C
ATOM	7721	O	LEU	993	-8.300	93.222	53.048	1.00 66.09	O
ATOM	7722	N	GLU	994	-6.064	93.521	53.212	1.00176.03	N
ATOM	7723	CA	GLU	994	-5.741	93.292	51.843	1.00176.03	C
ATOM	7724	CB	GLU	994	-4.292	93.665	51.516	1.00176.03	C
ATOM	7725	CG	GLU	994	-4.093	93.933	50.029	1.00176.03	C
ATOM	7726	CD	GLU	994	-4.702	95.282	49.690	1.00176.03	C
ATOM	7727	OE1	GLU	994	-5.943	95.423	49.837	1.00176.03	O
ATOM	7728	OE2	GLU	994	-3.933	96.190	49.273	1.00176.03	O
ATOM	7729	C	GLU	994	-5.958	91.830	51.602	1.00176.03	C
ATOM	7730	O	GLU	994	-5.867	91.338	50.480	1.00176.03	O
ATOM	7731	N	ARG	995	-6.141	91.076	52.697	1.00122.52	N
ATOM	7732	CA	ARG	995	-6.401	89.675	52.631	1.00122.52	C
ATOM	7733	CB	ARG	995	-7.745	89.354	51.961	1.00122.52	C
ATOM	7734	CG	ARG	995	-8.091	87.866	51.971	1.00122.52	C
ATOM	7735	CD	ARG	995	-9.309	87.526	51.121	1.00122.52	C
ATOM	7736	NE	ARG	995	-9.375	86.045	51.017	1.00122.52	N
ATOM	7737	CZ	ARG	995	-10.505	85.451	50.540	1.00122.52	C
ATOM	7738	NH1	ARG	995	-11.586	86.217	50.209	1.00122.52	N
ATOM	7739	NH2	ARG	995	-10.554	84.095	50.390	1.00122.52	N
ATOM	7740	C	ARG	995	-5.300	89.026	51.852	1.00122.52	C
ATOM	7741	O	ARG	995	-5.563	88.196	50.982	1.00122.52	O
ATOM	7742	N	PHE	996	-4.035	89.442	52.091	1.00108.56	N
ATOM	7743	CA	PHE	996	-2.939	88.769	51.458	1.00108.56	C
ATOM	7744	CB	PHE	996	-1.572	89.447	51.631	1.00108.56	C
ATOM	7745	CG	PHE	996	-1.535	90.695	50.826	1.00108.56	C
ATOM	7746	CD1	PHE	996	-1.929	90.678	49.508	1.00108.56	C
ATOM	7747	CD2	PHE	996	-1.048	91.862	51.368	1.00108.56	C
ATOM	7748	CE1	PHE	996	-1.876	91.823	48.752	1.00108.56	C
ATOM	7749	CE2	PHE	996	-0.990	93.009	50.614	1.00108.56	C
ATOM	7750	CZ	PHE	996	-1.407	92.990	49.305	1.00108.56	C
ATOM	7751	C	PHE	996	-2.800	87.427	52.086	1.00108.56	C
ATOM	7752	O	PHE	996	-2.720	86.404	51.410	1.00108.56	O
ATOM	7753	N	TYR	997	-2.789	87.419	53.429	1.00101.24	N
ATOM	7754	CA	TYR	997	-2.653	86.216	54.188	1.00101.24	C
ATOM	7755	CB	TYR	997	-1.566	86.306	55.274	1.00101.24	C
ATOM	7756	CG	TYR	997	-0.293	86.830	54.693	1.00101.24	C
ATOM	7757	CD1	TYR	997	-0.211	88.160	54.345	1.00101.24	C
ATOM	7758	CD2	TYR	997	0.819	86.035	54.528	1.00101.24	C
ATOM	7759	CE1	TYR	997	0.945	88.689	53.825	1.00101.24	C
ATOM	7760	CE2	TYR	997	1.982	86.559	54.007	1.00101.24	C
ATOM	7761	CZ	TYR	997	2.047	87.888	53.653	1.00101.24	C
ATOM	7762	OH	TYR	997	3.238	88.428	53.122	1.00101.24	O
ATOM	7763	C	TYR	997	-3.944	86.143	54.950	1.00101.24	C

ATOM	7764	O	TYR	997	-4.442	87.161	55.428	1.00101.24	O
ATOM	7765	N	ASP	998	-4.543	84.944	55.068	1.00 78.99	N
ATOM	7766	CA	ASP	998	-5.793	84.844	55.773	1.00 78.99	C
ATOM	7767	CB	ASP	998	-6.732	83.761	55.222	1.00 78.99	C
ATOM	7768	CG	ASP	998	-7.410	84.329	53.991	1.00 78.99	C
ATOM	7769	OD1	ASP	998	-8.112	85.361	54.145	1.00 78.99	O
ATOM	7770	OD2	ASP	998	-7.232	83.752	52.884	1.00 78.99	O
ATOM	7771	C	ASP	998	-5.524	84.506	57.198	1.00 78.99	C
ATOM	7772	O	ASP	998	-4.737	83.614	57.516	1.00 78.99	O
ATOM	7773	N	PRO	999	-6.208	85.212	58.056	1.00 81.64	N
ATOM	7774	CA	PRO	999	-6.058	85.044	59.474	1.00 81.64	C
ATOM	7775	CD	PRO	999	-7.477	85.824	57.700	1.00 81.64	C
ATOM	7776	CB	PRO	999	-7.158	85.901	60.099	1.00 81.64	C
ATOM	7777	CG	PRO	999	-8.257	85.913	59.020	1.00 81.64	C
ATOM	7778	C	PRO	999	-6.196	83.604	59.840	1.00 81.64	C
ATOM	7779	O	PRO	999	-7.049	82.915	59.285	1.00 81.64	O
ATOM	7780	N	LEU	1000	-5.349	83.132	60.771	1.00 51.06	N
ATOM	7781	CA	LEU	1000	-5.382	81.775	61.221	1.00 51.06	C
ATOM	7782	CB	LEU	1000	-4.274	81.455	62.240	1.00 51.06	C
ATOM	7783	CG	LEU	1000	-2.856	81.607	61.661	1.00 51.06	C
ATOM	7784	CD1	LEU	1000	-1.786	81.140	62.661	1.00 51.06	C
ATOM	7785	CD2	LEU	1000	-2.742	80.922	60.291	1.00 51.06	C
ATOM	7786	C	LEU	1000	-6.697	81.559	61.895	1.00 51.06	C
ATOM	7787	O	LEU	1000	-7.280	80.485	61.781	1.00 51.06	O
ATOM	7788	N	ALA	1001	-7.198	82.560	62.647	1.00 37.72	N
ATOM	7789	CA	ALA	1001	-8.470	82.376	63.292	1.00 37.72	C
ATOM	7790	CB	ALA	1001	-8.364	81.746	64.692	1.00 37.72	C
ATOM	7791	C	ALA	1001	-9.120	83.719	63.451	1.00 37.72	C
ATOM	7792	O	ALA	1001	-8.442	84.739	63.575	1.00 37.72	O
ATOM	7793	N	GLY	1002	-10.471	83.746	63.478	1.00 32.19	N
ATOM	7794	CA	GLY	1002	-11.184	84.988	63.618	1.00 32.19	C
ATOM	7795	C	GLY	1002	-11.578	85.445	62.242	1.00 32.19	C
ATOM	7796	O	GLY	1002	-11.384	84.713	61.274	1.00 32.19	O
ATOM	7797	N	LYS	1003	-12.170	86.661	62.119	1.00134.73	N
ATOM	7798	CA	LYS	1003	-12.603	87.110	60.820	1.00134.73	C
ATOM	7799	CB	LYS	1003	-13.986	86.566	60.416	1.00134.73	C
ATOM	7800	CG	LYS	1003	-15.074	86.782	61.474	1.00134.73	C
ATOM	7801	CD	LYS	1003	-15.463	88.242	61.719	1.00134.73	C
ATOM	7802	CE	LYS	1003	-16.536	88.405	62.803	1.00134.73	C
ATOM	7803	NZ	LYS	1003	-16.880	89.835	62.988	1.00134.73	N
ATOM	7804	C	LYS	1003	-12.676	88.610	60.759	1.00134.73	C
ATOM	7805	O	LYS	1003	-12.413	89.307	61.738	1.00134.73	O
ATOM	7806	N	VAL	1004	-13.011	89.163	59.567	1.00145.56	N
ATOM	7807	CA	VAL	1004	-13.100	90.598	59.477	1.00145.56	C
ATOM	7808	CB	VAL	1004	-11.880	91.250	58.913	1.00145.56	C
ATOM	7809	CG1	VAL	1004	-10.694	90.859	59.793	1.00145.56	C
ATOM	7810	CG2	VAL	1004	-11.700	90.831	57.462	1.00145.56	C
ATOM	7811	C	VAL	1004	-14.282	90.996	58.645	1.00145.56	C
ATOM	7812	O	VAL	1004	-14.967	90.149	58.085	1.00145.56	O
ATOM	7813	N	LEU	1005	-14.606	92.310	58.617	1.00125.80	N
ATOM	7814	CA	LEU	1005	-15.718	92.799	57.832	1.00125.80	C
ATOM	7815	CB	LEU	1005	-17.012	92.972	58.654	1.00125.80	C
ATOM	7816	CG	LEU	1005	-17.501	91.708	59.388	1.00125.80	C
ATOM	7817	CD1	LEU	1005	-16.532	91.317	60.516	1.00125.80	C
ATOM	7818	CD2	LEU	1005	-18.945	91.876	59.893	1.00125.80	C
ATOM	7819	C	LEU	1005	-15.379	94.190	57.369	1.00125.80	C
ATOM	7820	O	LEU	1005	-15.429	95.137	58.149	1.00125.80	O
ATOM	7821	N	LEU	1006	-15.110	94.372	56.065	1.00150.15	N
ATOM	7822	CA	LEU	1006	-14.775	95.668	55.537	1.00150.15	C
ATOM	7823	CB	LEU	1006	-14.536	95.708	54.020	1.00150.15	C
ATOM	7824	CG	LEU	1006	-15.827	95.526	53.200	1.00150.15	C
ATOM	7825	CD1	LEU	1006	-15.540	95.573	51.692	1.00150.15	C
ATOM	7826	CD2	LEU	1006	-16.580	94.253	53.619	1.00150.15	C
ATOM	7827	C	LEU	1006	-15.957	96.537	55.753	1.00150.15	C
ATOM	7828	O	LEU	1006	-15.881	97.760	55.662	1.00150.15	O
ATOM	7829	N	ASP	1007	-17.122	95.901	55.904	1.00156.70	N
ATOM	7830	CA	ASP	1007	-18.307	96.657	56.115	1.00156.70	C
ATOM	7831	CB	ASP	1007	-18.875	97.199	54.793	1.00156.70	C
ATOM	7832	CG	ASP	1007	-20.125	98.019	55.073	1.00156.70	C
ATOM	7833	OD1	ASP	1007	-20.246	98.570	56.200	1.00156.70	O
ATOM	7834	OD2	ASP	1007	-20.986	98.093	54.157	1.00156.70	O
ATOM	7835	C	ASP	1007	-19.310	95.692	56.647	1.00156.70	C
ATOM	7836	O	ASP	1007	-19.620	95.668	57.835	1.00156.70	O
ATOM	7837	N	GLY	1008	-19.947	94.975	55.710	1.00117.67	N

ATOM	7838	CA	GLY	1008	-20.985	94.026	55.961	1.00117.67	C
ATOM	7839	C	GLY	1008	-20.646	92.612	56.323	1.00117.67	C
ATOM	7840	O	GLY	1008	-21.321	92.038	57.177	1.00117.67	O
ATOM	7841	N	LYS	1009	-19.658	91.968	55.659	1.00157.05	N
ATOM	7842	CA	LYS	1009	-19.613	90.556	55.919	1.00157.05	C
ATOM	7843	CB	LYS	1009	-20.577	89.749	55.029	1.00157.05	C
ATOM	7844	CG	LYS	1009	-21.986	90.344	54.927	1.00157.05	C
ATOM	7845	CD	LYS	1009	-22.061	91.540	53.970	1.00157.05	C
ATOM	7846	CE	LYS	1009	-23.455	92.165	53.843	1.00157.05	C
ATOM	7847	NZ	LYS	1009	-23.587	93.309	54.778	1.00157.05	N
ATOM	7848	C	LYS	1009	-18.253	90.024	55.640	1.00157.05	C
ATOM	7849	O	LYS	1009	-17.575	90.451	54.704	1.00157.05	O
ATOM	7850	N	GLU	1010	-17.927	88.962	56.400	1.00135.40	N
ATOM	7851	CA	GLU	1010	-16.654	88.332	56.532	1.00135.40	C
ATOM	7852	CB	GLU	1010	-16.734	86.820	56.816	1.00135.40	C
ATOM	7853	CG	GLU	1010	-17.299	86.503	58.203	1.00135.40	C
ATOM	7854	CD	GLU	1010	-17.232	84.997	58.413	1.00135.40	C
ATOM	7855	OE1	GLU	1010	-16.894	84.281	57.433	1.00135.40	O
ATOM	7856	OE2	GLU	1010	-17.510	84.541	59.554	1.00135.40	O
ATOM	7857	C	GLU	1010	-15.757	88.543	55.376	1.00135.40	C
ATOM	7858	O	GLU	1010	-15.938	88.024	54.276	1.00135.40	O
ATOM	7859	N	ILE	1011	-14.684	89.314	55.665	1.00189.08	N
ATOM	7860	CA	ILE	1011	-13.591	89.414	54.776	1.00189.08	C
ATOM	7861	CB	ILE	1011	-12.835	90.702	54.775	1.00189.08	C
ATOM	7862	CG1	ILE	1011	-13.727	91.837	54.266	1.00189.08	C
ATOM	7863	CG2	ILE	1011	-11.549	90.495	53.959	1.00189.08	C
ATOM	7864	CD1	ILE	1011	-13.032	93.189	54.273	1.00189.08	C
ATOM	7865	C	ILE	1011	-12.720	88.325	55.274	1.00189.08	C
ATOM	7866	O	ILE	1011	-11.694	88.548	55.913	1.00189.08	O
ATOM	7867	N	LYS	1012	-13.379	87.161	55.358	1.00174.04	N
ATOM	7868	CA	LYS	1012	-12.903	85.841	55.267	1.00174.04	C
ATOM	7869	CB	LYS	1012	-13.665	84.897	56.201	1.00174.04	C
ATOM	7870	CG	LYS	1012	-13.127	83.473	56.148	1.00174.04	C
ATOM	7871	CD	LYS	1012	-13.552	82.603	57.329	1.00174.04	C
ATOM	7872	CE	LYS	1012	-12.886	81.227	57.331	1.00174.04	C
ATOM	7873	NZ	LYS	1012	-11.441	81.368	57.624	1.00174.04	N
ATOM	7874	C	LYS	1012	-13.285	85.523	53.866	1.00174.04	C
ATOM	7875	O	LYS	1012	-12.486	85.137	53.014	1.00174.04	O
ATOM	7876	N	ARG	1013	-14.592	85.778	53.600	1.00183.08	N
ATOM	7877	CA	ARG	1013	-15.088	85.568	52.280	1.00183.08	C
ATOM	7878	CB	ARG	1013	-15.816	84.236	52.001	1.00183.08	C
ATOM	7879	CG	ARG	1013	-17.083	83.931	52.792	1.00183.08	C
ATOM	7880	CD	ARG	1013	-17.726	82.624	52.319	1.00183.08	C
ATOM	7881	NE	ARG	1013	-16.654	81.586	52.299	1.00183.08	N
ATOM	7882	CZ	ARG	1013	-15.886	81.397	51.185	1.00183.08	C
ATOM	7883	NH1	ARG	1013	-16.113	82.135	50.058	1.00183.08	N
ATOM	7884	NH2	ARG	1013	-14.884	80.470	51.198	1.00183.08	N
ATOM	7885	C	ARG	1013	-15.924	86.722	51.848	1.00183.08	C
ATOM	7886	O	ARG	1013	-17.068	86.918	52.262	1.00183.08	O
ATOM	7887	N	LEU	1014	-15.290	87.532	50.995	1.00 97.46	N
ATOM	7888	CA	LEU	1014	-15.785	88.668	50.285	1.00 97.46	C
ATOM	7889	CB	LEU	1014	-15.402	90.003	50.947	1.00 97.46	C
ATOM	7890	CG	LEU	1014	-15.924	91.245	50.206	1.00 97.46	C
ATOM	7891	CD1	LEU	1014	-17.460	91.287	50.203	1.00 97.46	C
ATOM	7892	CD2	LEU	1014	-15.298	92.531	50.768	1.00 97.46	C
ATOM	7893	C	LEU	1014	-15.001	88.549	49.017	1.00 97.46	C
ATOM	7894	O	LEU	1014	-13.883	88.040	49.061	1.00 97.46	O
ATOM	7895	N	ASN	1015	-15.535	88.983	47.859	1.00 83.50	N
ATOM	7896	CA	ASN	1015	-14.783	88.775	46.646	1.00 83.50	C
ATOM	7897	CB	ASN	1015	-15.485	89.326	45.390	1.00 83.50	C
ATOM	7898	CG	ASN	1015	-14.689	88.952	44.140	1.00 83.50	C
ATOM	7899	OD1	ASN	1015	-13.473	89.122	44.072	1.00 83.50	O
ATOM	7900	ND2	ASN	1015	-15.407	88.430	43.110	1.00 83.50	N
ATOM	7901	C	ASN	1015	-13.495	89.514	46.780	1.00 83.50	C
ATOM	7902	O	ASN	1015	-13.486	90.740	46.835	1.00 83.50	O
ATOM	7903	N	VAL	1016	-12.365	88.780	46.743	1.00100.53	N
ATOM	7904	CA	VAL	1016	-11.077	89.369	46.975	1.00100.53	C
ATOM	7905	CB	VAL	1016	-9.943	88.400	46.817	1.00100.53	C
ATOM	7906	CG1	VAL	1016	-8.639	89.199	46.772	1.00100.53	C
ATOM	7907	CG2	VAL	1016	-9.961	87.417	47.991	1.00100.53	C
ATOM	7908	C	VAL	1016	-10.802	90.468	46.004	1.00100.53	C
ATOM	7909	O	VAL	1016	-10.380	91.549	46.414	1.00100.53	O
ATOM	7910	N	GLN	1017	-11.048	90.247	44.700	1.00157.96	N
ATOM	7911	CA	GLN	1017	-10.678	91.279	43.776	1.00157.96	C

ATOM	7912	CB	GLN	1017	-10.894	90.933	42.301	1.00157.96	C
ATOM	7913	CG	GLN	1017	-9.853	89.932	41.814	1.00157.96	C
ATOM	7914	CD	GLN	1017	-9.920	89.889	40.302	1.00157.96	C
ATOM	7915	OE1	GLN	1017	-10.506	88.974	39.729	1.00157.96	O
ATOM	7916	NE2	GLN	1017	-9.310	90.906	39.635	1.00157.96	N
ATOM	7917	C	GLN	1017	-11.430	92.525	44.085	1.00157.96	C
ATOM	7918	O	GLN	1017	-10.885	93.623	43.988	1.00157.96	O
ATOM	7919	N	TRP	1018	-12.716	92.397	44.438	1.00104.97	N
ATOM	7920	CA	TRP	1018	-13.446	93.579	44.788	1.00104.97	C
ATOM	7921	CB	TRP	1018	-14.959	93.403	44.900	1.00104.97	C
ATOM	7922	CG	TRP	1018	-15.588	94.705	45.320	1.00104.97	C
ATOM	7923	CD2	TRP	1018	-15.986	95.005	46.666	1.00104.97	C
ATOM	7924	CD1	TRP	1018	-15.871	95.808	44.573	1.00104.97	C
ATOM	7925	NE1	TRP	1018	-16.423	96.784	45.370	1.00104.97	N
ATOM	7926	CE2	TRP	1018	-16.499	96.303	46.660	1.00104.97	C
ATOM	7927	CE3	TRP	1018	-15.926	94.266	47.809	1.00104.97	C
ATOM	7928	CZ2	TRP	1018	-16.966	96.881	47.806	1.00104.97	C
ATOM	7929	CZ3	TRP	1018	-16.401	94.850	48.963	1.00104.97	C
ATOM	7930	CH2	TRP	1018	-16.910	96.132	48.959	1.00104.97	C
ATOM	7931	C	TRP	1018	-12.982	94.117	46.103	1.00104.97	C
ATOM	7932	O	TRP	1018	-12.915	95.334	46.283	1.00104.97	O
ATOM	7933	N	LEU	1019	-12.658	93.226	47.063	1.00 73.18	N
ATOM	7934	CA	LEU	1019	-12.240	93.682	48.362	1.00 73.18	C
ATOM	7935	CB	LEU	1019	-11.774	92.540	49.278	1.00 73.18	C
ATOM	7936	CG	LEU	1019	-11.235	93.034	50.633	1.00 73.18	C
ATOM	7937	CD1	LEU	1019	-12.326	93.753	51.439	1.00 73.18	C
ATOM	7938	CD2	LEU	1019	-10.559	91.895	51.414	1.00 73.18	C
ATOM	7939	C	LEU	1019	-11.064	94.574	48.138	1.00 73.18	C
ATOM	7940	O	LEU	1019	-10.963	95.654	48.713	1.00 73.18	O
ATOM	7941	N	ARG	1020	-10.157	94.142	47.253	1.00164.67	N
ATOM	7942	CA	ARG	1020	-8.984	94.893	46.912	1.00164.67	C
ATOM	7943	CB	ARG	1020	-7.885	94.049	46.243	1.00164.67	C
ATOM	7944	CG	ARG	1020	-7.363	92.989	47.223	1.00164.67	C
ATOM	7945	CD	ARG	1020	-5.870	92.683	47.113	1.00164.67	C
ATOM	7946	NE	ARG	1020	-5.634	91.795	45.945	1.00164.67	N
ATOM	7947	CZ	ARG	1020	-5.488	90.452	46.141	1.00164.67	C
ATOM	7948	NH1	ARG	1020	-5.645	89.923	47.388	1.00164.67	N
ATOM	7949	NH2	ARG	1020	-5.165	89.643	45.091	1.00164.67	N
ATOM	7950	C	ARG	1020	-9.349	96.067	46.060	1.00164.67	C
ATOM	7951	O	ARG	1020	-8.528	96.951	45.835	1.00164.67	O
ATOM	7952	N	ALA	1021	-10.567	96.081	45.498	1.00 55.21	N
ATOM	7953	CA	ALA	1021	-10.961	97.204	44.701	1.00 55.21	C
ATOM	7954	CB	ALA	1021	-12.422	97.126	44.226	1.00 55.21	C
ATOM	7955	C	ALA	1021	-10.825	98.415	45.578	1.00 55.21	C
ATOM	7956	O	ALA	1021	-10.322	99.448	45.140	1.00 55.21	O
ATOM	7957	N	HIS	1022	-11.237	98.315	46.859	1.00 88.50	N
ATOM	7958	CA	HIS	1022	-11.104	99.455	47.723	1.00 88.50	C
ATOM	7959	ND1	HIS	1022	-14.025	100.913	47.320	1.00 88.50	N
ATOM	7960	CG	HIS	1022	-13.620	99.785	47.997	1.00 88.50	C
ATOM	7961	CB	HIS	1022	-12.293	99.639	48.682	1.00 88.50	C
ATOM	7962	NE2	HIS	1022	-15.707	99.462	47.201	1.00 88.50	N
ATOM	7963	CD2	HIS	1022	-14.659	98.908	47.913	1.00 88.50	C
ATOM	7964	CE1	HIS	1022	-15.280	100.666	46.864	1.00 88.50	C
ATOM	7965	C	HIS	1022	-9.900	99.264	48.598	1.00 88.50	C
ATOM	7966	O	HIS	1022	-9.878	98.384	49.456	1.00 88.50	O
ATOM	7967	N	LEU	1023	-8.849	100.086	48.399	1.00166.40	N
ATOM	7968	CA	LEU	1023	-7.693	99.971	49.242	1.00166.40	C
ATOM	7969	CB	LEU	1023	-6.931	98.640	49.011	1.00166.40	C
ATOM	7970	CG	LEU	1023	-6.241	98.458	47.636	1.00166.40	C
ATOM	7971	CD1	LEU	1023	-5.889	96.986	47.375	1.00166.40	C
ATOM	7972	CD2	LEU	1023	-7.013	99.126	46.487	1.00166.40	C
ATOM	7973	C	LEU	1023	-6.794	101.144	48.967	1.00166.40	C
ATOM	7974	O	LEU	1023	-5.986	101.137	48.043	1.00166.40	O
ATOM	7975	N	GLY	1024	-6.879	102.208	49.783	1.00 55.59	N
ATOM	7976	CA	GLY	1024	-6.006	103.304	49.488	1.00 55.59	C
ATOM	7977	C	GLY	1024	-4.719	102.982	50.159	1.00 55.59	C
ATOM	7978	O	GLY	1024	-4.435	103.480	51.243	1.00 55.59	O
ATOM	7979	N	ILE	1025	-3.877	102.176	49.488	1.00137.77	N
ATOM	7980	CA	ILE	1025	-2.669	101.712	50.101	1.00137.77	C
ATOM	7981	CB	ILE	1025	-2.462	100.233	49.871	1.00137.77	C
ATOM	7982	CG1	ILE	1025	-1.442	99.619	50.845	1.00137.77	C
ATOM	7983	CG2	ILE	1025	-2.132	100.032	48.383	1.00137.77	C
ATOM	7984	CD1	ILE	1025	-0.023	100.143	50.698	1.00137.77	C
ATOM	7985	C	ILE	1025	-1.513	102.487	49.545	1.00137.77	C

ATOM	7986	O	ILE	1025	-1.471	102.807	48.358	1.00137.77	O
ATOM	7987	N	VAL	1026	-0.597	102.899	50.443	1.00 76.78	N
ATOM	7988	CA	VAL	1026	0.626	103.570	50.106	1.00 76.78	C
ATOM	7989	CB	VAL	1026	0.480	105.064	50.092	1.00 76.78	C
ATOM	7990	CG1	VAL	1026	1.866	105.702	49.904	1.00 76.78	C
ATOM	7991	CG2	VAL	1026	-0.523	105.436	48.986	1.00 76.78	C
ATOM	7992	C	VAL	1026	1.571	103.193	51.209	1.00 76.78	C
ATOM	7993	O	VAL	1026	1.212	103.293	52.382	1.00 76.78	O
ATOM	7994	N	SER	1027	2.813	102.776	50.873	1.00 64.97	N
ATOM	7995	CA	SER	1027	3.696	102.266	51.890	1.00 64.97	C
ATOM	7996	CB	SER	1027	3.967	100.753	51.736	1.00 64.97	C
ATOM	7997	OG	SER	1027	4.734	100.251	52.821	1.00 64.97	O
ATOM	7998	C	SER	1027	5.010	102.979	51.830	1.00 64.97	C
ATOM	7999	O	SER	1027	5.241	103.828	50.970	1.00 64.97	O
ATOM	8000	N	GLN	1028	5.925	102.622	52.757	1.00169.41	N
ATOM	8001	CA	GLN	1028	7.139	103.360	52.864	1.00169.41	C
ATOM	8002	CB	GLN	1028	7.989	102.979	54.094	1.00169.41	C
ATOM	8003	CG	GLN	1028	8.400	101.515	54.226	1.00169.41	C
ATOM	8004	CD	GLN	1028	8.882	101.344	55.663	1.00169.41	C
ATOM	8005	OE1	GLN	1028	8.146	101.607	56.614	1.00169.41	O
ATOM	8006	NE2	GLN	1028	10.156	100.902	55.829	1.00169.41	N
ATOM	8007	C	GLN	1028	7.901	103.368	51.576	1.00169.41	C
ATOM	8008	O	GLN	1028	8.206	104.452	51.083	1.00169.41	O
ATOM	8009	N	GLU	1029	8.172	102.217	50.932	1.00128.47	N
ATOM	8010	CA	GLU	1029	8.867	102.354	49.680	1.00128.47	C
ATOM	8011	CB	GLU	1029	10.016	101.345	49.491	1.00128.47	C
ATOM	8012	CG	GLU	1029	9.588	99.906	49.226	1.00128.47	C
ATOM	8013	CD	GLU	1029	9.794	99.659	47.741	1.00128.47	C
ATOM	8014	OE1	GLU	1029	10.662	100.358	47.153	1.00128.47	O
ATOM	8015	OE2	GLU	1029	9.102	98.771	47.176	1.00128.47	O
ATOM	8016	C	GLU	1029	7.845	102.187	48.595	1.00128.47	C
ATOM	8017	O	GLU	1029	7.262	101.121	48.404	1.00128.47	O
ATOM	8018	N	PRO	1030	7.620	103.260	47.887	1.00125.43	N
ATOM	8019	CA	PRO	1030	6.663	103.333	46.818	1.00125.43	C
ATOM	8020	CD	PRO	1030	8.120	104.567	48.272	1.00125.43	C
ATOM	8021	CB	PRO	1030	6.409	104.824	46.593	1.00125.43	C
ATOM	8022	CG	PRO	1030	7.669	105.508	47.146	1.00125.43	C
ATOM	8023	C	PRO	1030	7.292	102.672	45.634	1.00125.43	C
ATOM	8024	O	PRO	1030	8.283	101.968	45.810	1.00125.43	O
ATOM	8025	N	ILE	1031	6.660	102.757	44.451	1.00104.91	N
ATOM	8026	CA	ILE	1031	7.303	102.249	43.271	1.00104.91	C
ATOM	8027	CB	ILE	1031	7.652	100.793	43.341	1.00104.91	C
ATOM	8028	CG1	ILE	1031	8.475	100.400	42.101	1.00104.91	C
ATOM	8029	CG2	ILE	1031	6.357	99.987	43.531	1.00104.91	C
ATOM	8030	CD1	ILE	1031	9.081	99.005	42.167	1.00104.91	C
ATOM	8031	C	ILE	1031	6.384	102.434	42.106	1.00104.91	C
ATOM	8032	O	ILE	1031	5.181	102.615	42.286	1.00104.91	O
ATOM	8033	N	LEU	1032	6.933	102.407	40.870	1.00176.76	N
ATOM	8034	CA	LEU	1032	6.088	102.487	39.708	1.00176.76	C
ATOM	8035	CB	LEU	1032	5.954	103.892	39.073	1.00176.76	C
ATOM	8036	CG	LEU	1032	5.748	105.116	39.989	1.00176.76	C
ATOM	8037	CD1	LEU	1032	4.591	104.947	40.977	1.00176.76	C
ATOM	8038	CD2	LEU	1032	7.069	105.579	40.616	1.00176.76	C
ATOM	8039	C	LEU	1032	6.776	101.742	38.594	1.00176.76	C
ATOM	8040	O	LEU	1032	7.994	101.837	38.441	1.00176.76	O
ATOM	8041	N	PHE	1033	6.006	101.001	37.767	1.00123.91	N
ATOM	8042	CA	PHE	1033	6.556	100.371	36.592	1.00123.91	C
ATOM	8043	CB	PHE	1033	5.637	99.307	35.959	1.00123.91	C
ATOM	8044	CG	PHE	1033	6.361	98.681	34.814	1.00123.91	C
ATOM	8045	CD1	PHE	1033	7.493	97.934	35.039	1.00123.91	C
ATOM	8046	CD2	PHE	1033	5.901	98.808	33.522	1.00123.91	C
ATOM	8047	CE1	PHE	1033	8.172	97.346	33.999	1.00123.91	C
ATOM	8048	CE2	PHE	1033	6.575	98.220	32.475	1.00123.91	C
ATOM	8049	CZ	PHE	1033	7.716	97.489	32.712	1.00123.91	C
ATOM	8050	C	PHE	1033	6.745	101.516	35.633	1.00123.91	C
ATOM	8051	O	PHE	1033	6.080	102.542	35.758	1.00123.91	O
ATOM	8052	N	ASP	1034	7.620	101.337	34.627	1.00194.49	N
ATOM	8053	CA	ASP	1034	8.132	102.317	33.708	1.00194.49	C
ATOM	8054	CB	ASP	1034	9.478	101.956	33.044	1.00194.49	C
ATOM	8055	CG	ASP	1034	9.437	100.550	32.493	1.00194.49	C
ATOM	8056	OD1	ASP	1034	9.566	99.612	33.322	1.00194.49	O
ATOM	8057	OD2	ASP	1034	9.311	100.388	31.250	1.00194.49	O
ATOM	8058	C	ASP	1034	7.192	102.968	32.738	1.00194.49	C
ATOM	8059	O	ASP	1034	7.632	103.409	31.677	1.00194.49	O

ATOM	8060	N	CYS	1035	5.870	102.922	32.967	1.00	70.48	N
ATOM	8061	CA	CYS	1035	5.016	103.688	32.101	1.00	70.48	C
ATOM	8062	CB	CYS	1035	3.522	103.352	32.249	1.00	70.48	C
ATOM	8063	SG	CYS	1035	3.149	101.636	31.778	1.00	70.48	S
ATOM	8064	C	CYS	1035	5.204	105.141	32.451	1.00	70.48	C
ATOM	8065	O	CYS	1035	5.870	105.494	33.423	1.00	70.48	O
ATOM	8066	N	SER	1036	4.643	106.034	31.618	1.00	104.25	N
ATOM	8067	CA	SER	1036	4.692	107.445	31.848	1.00	104.25	C
ATOM	8068	CB	SER	1036	3.919	108.154	30.727	1.00	104.25	C
ATOM	8069	OG	SER	1036	3.932	109.554	30.904	1.00	104.25	O
ATOM	8070	C	SER	1036	3.968	107.638	33.149	1.00	104.25	C
ATOM	8071	O	SER	1036	3.155	106.800	33.529	1.00	104.25	O
ATOM	8072	N	ILE	1037	4.239	108.737	33.881	1.00	71.44	N
ATOM	8073	CA	ILE	1037	3.600	108.942	35.153	1.00	71.44	C
ATOM	8074	CB	ILE	1037	3.984	110.227	35.817	1.00	71.44	C
ATOM	8075	CG1	ILE	1037	3.561	111.408	34.930	1.00	71.44	C
ATOM	8076	CG2	ILE	1037	5.485	110.173	36.155	1.00	71.44	C
ATOM	8077	CD1	ILE	1037	3.495	112.739	35.669	1.00	71.44	C
ATOM	8078	C	ILE	1037	2.127	109.005	34.921	1.00	71.44	C
ATOM	8079	O	ILE	1037	1.336	108.587	35.762	1.00	71.44	O
ATOM	8080	N	ALA	1038	1.717	109.562	33.769	1.00	52.89	N
ATOM	8081	CA	ALA	1038	0.317	109.694	33.499	1.00	52.89	C
ATOM	8082	CB	ALA	1038	0.034	110.287	32.108	1.00	52.89	C
ATOM	8083	C	ALA	1038	-0.314	108.332	33.550	1.00	52.89	C
ATOM	8084	O	ALA	1038	-1.424	108.180	34.058	1.00	52.89	O
ATOM	8085	N	GLU	1039	0.362	107.310	32.989	1.00	106.41	N
ATOM	8086	CA	GLU	1039	-0.124	105.955	32.982	1.00	106.41	C
ATOM	8087	CB	GLU	1039	0.745	105.053	32.088	1.00	106.41	C
ATOM	8088	CG	GLU	1039	0.936	105.595	30.667	1.00	106.41	C
ATOM	8089	CD	GLU	1039	-0.425	105.927	30.069	1.00	106.41	C
ATOM	8090	OE1	GLU	1039	-1.455	105.475	30.635	1.00	106.41	O
ATOM	8091	OE2	GLU	1039	-0.453	106.641	29.032	1.00	106.41	O
ATOM	8092	C	GLU	1039	-0.065	105.395	34.374	1.00	106.41	C
ATOM	8093	O	GLU	1039	-1.006	104.758	34.851	1.00	106.41	O
ATOM	8094	N	ASN	1040	1.057	105.648	35.074	1.00	99.01	N
ATOM	8095	CA	ASN	1040	1.245	105.111	36.389	1.00	99.01	C
ATOM	8096	CB	ASN	1040	2.549	105.578	37.068	1.00	99.01	C
ATOM	8097	CG	ASN	1040	3.750	104.933	36.386	1.00	99.01	C
ATOM	8098	OD1	ASN	1040	4.825	105.524	36.305	1.00	99.01	O
ATOM	8099	ND2	ASN	1040	3.568	103.680	35.890	1.00	99.01	N
ATOM	8100	C	ASN	1040	0.134	105.627	37.215	1.00	99.01	C
ATOM	8101	O	ASN	1040	-0.546	104.835	37.855	1.00	99.01	O
ATOM	8102	N	ILE	1041	-0.149	106.939	37.154	1.00	88.93	N
ATOM	8103	CA	ILE	1041	-1.197	107.534	37.937	1.00	88.93	C
ATOM	8104	CB	ILE	1041	-1.474	108.953	37.530	1.00	88.93	C
ATOM	8105	CG1	ILE	1041	-0.217	109.829	37.691	1.00	88.93	C
ATOM	8106	CG2	ILE	1041	-2.679	109.447	38.344	1.00	88.93	C
ATOM	8107	CD1	ILE	1041	-0.331	111.194	37.007	1.00	88.93	C
ATOM	8108	C	ILE	1041	-2.425	106.744	37.605	1.00	88.93	C
ATOM	8109	O	ILE	1041	-3.160	106.289	38.477	1.00	88.93	O
ATOM	8110	N	ALA	1042	-2.545	106.430	36.311	1.00	115.72	N
ATOM	8111	CA	ALA	1042	-3.601	105.718	35.661	1.00	115.72	C
ATOM	8112	CB	ALA	1042	-3.475	105.678	34.126	1.00	115.72	C
ATOM	8113	C	ALA	1042	-3.721	104.316	36.168	1.00	115.72	C
ATOM	8114	O	ALA	1042	-4.593	103.615	35.664	1.00	115.72	O
ATOM	8115	N	TYR	1043	-2.773	103.855	37.030	1.00	212.13	N
ATOM	8116	CA	TYR	1043	-2.612	102.502	37.529	1.00	212.13	C
ATOM	8117	CB	TYR	1043	-2.245	102.321	39.026	1.00	212.13	C
ATOM	8118	CG	TYR	1043	-0.781	102.482	39.216	1.00	212.13	C
ATOM	8119	CD1	TYR	1043	0.072	101.666	38.511	1.00	212.13	C
ATOM	8120	CD2	TYR	1043	-0.265	103.380	40.123	1.00	212.13	C
ATOM	8121	CE1	TYR	1043	1.431	101.781	38.660	1.00	212.13	C
ATOM	8122	CE2	TYR	1043	1.094	103.500	40.274	1.00	212.13	C
ATOM	8123	CZ	TYR	1043	1.939	102.705	39.537	1.00	212.13	C
ATOM	8124	OH	TYR	1043	3.332	102.826	39.688	1.00	212.13	O
ATOM	8125	C	TYR	1043	-3.843	101.716	37.387	1.00	212.13	C
ATOM	8126	O	TYR	1043	-4.773	101.887	38.164	1.00	212.13	O
ATOM	8127	N	GLY	1044	-3.874	100.987	36.253	1.00	179.26	N
ATOM	8128	CA	GLY	1044	-4.735	99.943	35.769	1.00	179.26	C
ATOM	8129	C	GLY	1044	-5.392	99.155	36.854	1.00	179.26	C
ATOM	8130	O	GLY	1044	-5.260	97.935	36.857	1.00	179.26	O
ATOM	8131	N	ASP	1045	-6.154	99.783	37.752	1.00	187.94	N
ATOM	8132	CA	ASP	1045	-6.711	99.130	38.892	1.00	187.94	C
ATOM	8133	CB	ASP	1045	-7.679	100.070	39.619	1.00	187.94	C

ATOM	8134	CG	ASP	1045	-7.001	101.427	39.687	1.00187.94	C
ATOM	8135	OD1	ASP	1045	-5.972	101.573	40.400	1.00187.94	O
ATOM	8136	OD2	ASP	1045	-7.511	102.345	38.990	1.00187.94	O
ATOM	8137	C	ASP	1045	-7.552	98.043	38.329	1.00187.94	C
ATOM	8138	O	ASP	1045	-7.606	96.927	38.844	1.00187.94	O
ATOM	8139	N	ASN	1046	-8.226	98.375	37.220	1.00107.13	N
ATOM	8140	CA	ASN	1046	-9.081	97.443	36.560	1.00107.13	C
ATOM	8141	CB	ASN	1046	-10.364	97.142	37.351	1.00107.13	C
ATOM	8142	CG	ASN	1046	-11.034	98.467	37.674	1.00107.13	C
ATOM	8143	OD1	ASN	1046	-11.837	98.987	36.900	1.00107.13	O
ATOM	8144	ND2	ASN	1046	-10.693	99.033	38.862	1.00107.13	N
ATOM	8145	C	ASN	1046	-9.448	98.047	35.249	1.00107.13	C
ATOM	8146	O	ASN	1046	-8.652	98.737	34.613	1.00107.13	O
ATOM	8147	N	SER	1047	-10.710	97.831	34.835	1.00 52.13	N
ATOM	8148	CA	SER	1047	-11.230	98.300	33.582	1.00 52.13	C
ATOM	8149	CB	SER	1047	-12.697	97.899	33.357	1.00 52.13	C
ATOM	8150	OG	SER	1047	-13.527	98.532	34.319	1.00 52.13	O
ATOM	8151	C	SER	1047	-11.161	99.793	33.554	1.00 52.13	C
ATOM	8152	O	SER	1047	-11.397	100.402	32.510	1.00 52.13	O
ATOM	8153	N	ARG	1048	-10.834	100.416	34.706	1.00141.49	N
ATOM	8154	CA	ARG	1048	-10.739	101.839	34.788	1.00141.49	C
ATOM	8155	CB	ARG	1048	-10.137	102.341	36.113	1.00141.49	C
ATOM	8156	CG	ARG	1048	-10.949	101.950	37.347	1.00141.49	C
ATOM	8157	CD	ARG	1048	-12.185	102.821	37.604	1.00141.49	C
ATOM	8158	NE	ARG	1048	-11.721	104.177	38.017	1.00141.49	N
ATOM	8159	CZ	ARG	1048	-11.606	105.181	37.101	1.00141.49	C
ATOM	8160	NH1	ARG	1048	-11.950	104.966	35.799	1.00141.49	N
ATOM	8161	NH2	ARG	1048	-11.161	106.411	37.488	1.00141.49	N
ATOM	8162	C	ARG	1048	-9.832	102.296	33.687	1.00141.49	C
ATOM	8163	O	ARG	1048	-8.653	101.951	33.632	1.00141.49	O
ATOM	8164	N	VAL	1049	-10.399	103.095	32.766	1.00106.84	N
ATOM	8165	CA	VAL	1049	-9.697	103.618	31.633	1.00106.84	C
ATOM	8166	CB	VAL	1049	-10.607	104.108	30.547	1.00106.84	C
ATOM	8167	CG1	VAL	1049	-11.503	105.216	31.126	1.00106.84	C
ATOM	8168	CG2	VAL	1049	-9.744	104.567	29.358	1.00106.84	C
ATOM	8169	C	VAL	1049	-8.897	104.776	32.113	1.00106.84	C
ATOM	8170	O	VAL	1049	-9.203	105.343	33.160	1.00106.84	O
ATOM	8171	N	VAL	1050	-7.829	105.141	31.373	1.00150.71	N
ATOM	8172	CA	VAL	1050	-7.029	106.233	31.841	1.00150.71	C
ATOM	8173	CB	VAL	1050	-5.663	106.309	31.204	1.00150.71	C
ATOM	8174	CG1	VAL	1050	-5.795	106.410	29.675	1.00150.71	C
ATOM	8175	CG2	VAL	1050	-4.902	107.486	31.831	1.00150.71	C
ATOM	8176	C	VAL	1050	-7.773	107.516	31.628	1.00150.71	C
ATOM	8177	O	VAL	1050	-7.536	108.263	30.681	1.00150.71	O
ATOM	8178	N	SER	1051	-8.690	107.825	32.564	1.00 76.10	N
ATOM	8179	CA	SER	1051	-9.443	109.037	32.458	1.00 76.10	C
ATOM	8180	CB	SER	1051	-10.550	109.146	33.523	1.00 76.10	C
ATOM	8181	OG	SER	1051	-11.271	110.360	33.374	1.00 76.10	O
ATOM	8182	C	SER	1051	-8.469	110.149	32.666	1.00 76.10	C
ATOM	8183	O	SER	1051	-7.925	110.304	33.758	1.00 76.10	O
ATOM	8184	N	GLN	1052	-8.242	110.982	31.634	1.00 72.16	N
ATOM	8185	CA	GLN	1052	-7.213	111.970	31.785	1.00 72.16	C
ATOM	8186	CB	GLN	1052	-6.915	112.772	30.505	1.00 72.16	C
ATOM	8187	CG	GLN	1052	-5.764	113.766	30.688	1.00 72.16	C
ATOM	8188	CD	GLN	1052	-5.449	114.411	29.345	1.00 72.16	C
ATOM	8189	OE1	GLN	1052	-4.478	114.049	28.683	1.00 72.16	O
ATOM	8190	NE2	GLN	1052	-6.291	115.394	28.928	1.00 72.16	N
ATOM	8191	C	GLN	1052	-7.560	112.938	32.873	1.00 72.16	C
ATOM	8192	O	GLN	1052	-6.760	113.163	33.777	1.00 72.16	O
ATOM	8193	N	GLU	1053	-8.791	113.475	32.871	1.00143.55	N
ATOM	8194	CA	GLU	1053	-9.162	114.456	33.850	1.00143.55	C
ATOM	8195	CB	GLU	1053	-10.626	114.895	33.718	1.00143.55	C
ATOM	8196	CG	GLU	1053	-10.901	115.615	32.401	1.00143.55	C
ATOM	8197	CD	GLU	1053	-10.900	114.579	31.288	1.00143.55	C
ATOM	8198	OE1	GLU	1053	-11.073	113.368	31.595	1.00143.55	O
ATOM	8199	OE2	GLU	1053	-10.731	114.990	30.110	1.00143.55	O
ATOM	8200	C	GLU	1053	-9.017	113.797	35.173	1.00143.55	C
ATOM	8201	O	GLU	1053	-8.632	114.427	36.157	1.00143.55	O
ATOM	8202	N	GLU	1054	-9.329	112.491	35.213	1.00127.08	N
ATOM	8203	CA	GLU	1054	-9.188	111.748	36.429	1.00127.08	C
ATOM	8204	CB	GLU	1054	-9.536	110.258	36.270	1.00127.08	C
ATOM	8205	CG	GLU	1054	-10.989	109.906	36.556	1.00127.08	C
ATOM	8206	CD	GLU	1054	-11.016	109.652	38.055	1.00127.08	C
ATOM	8207	OE1	GLU	1054	-10.134	110.219	38.756	1.00127.08	O

ATOM	8208	OE2	GLU	1054	-11.898	108.883	38.521	1.00127.08
ATOM	8209	C	GLU	1054	-7.761	111.764	36.874	1.00127.08
ATOM	8210	O	GLU	1054	-7.470	112.158	38.002	1.00127.08
ATOM	8211	N	ILE	1055	-6.827	111.404	35.972	1.00 79.71
ATOM	8212	CA	ILE	1055	-5.445	111.302	36.353	1.00 79.71
ATOM	8213	CB	ILE	1055	-4.502	110.889	35.248	1.00 79.71
ATOM	8214	CG1	ILE	1055	-4.342	111.978	34.180	1.00 79.71
ATOM	8215	CG2	ILE	1055	-5.014	109.552	34.681	1.00 79.71
ATOM	8216	CD1	ILE	1055	-3.213	111.695	33.189	1.00 79.71
ATOM	8217	C	ILE	1055	-5.041	112.657	36.833	1.00 79.71
ATOM	8218	O	ILE	1055	-4.144	112.794	37.664	1.00 79.71
ATOM	8219	N	VAL	1056	-5.652	113.700	36.240	1.00 54.03
ATOM	8220	CA	VAL	1056	-5.429	115.066	36.621	1.00 54.03
ATOM	8221	CB	VAL	1056	-6.087	116.035	35.683	1.00 54.03
ATOM	8222	CG1	VAL	1056	-5.905	117.463	36.227	1.00 54.03
ATOM	8223	CG2	VAL	1056	-5.482	115.826	34.285	1.00 54.03
ATOM	8224	C	VAL	1056	-5.957	115.303	38.004	1.00 54.03
ATOM	8225	O	VAL	1056	-5.311	115.973	38.810	1.00 54.03
ATOM	8226	N	ARG	1057	-7.146	114.755	38.330	1.00163.44
ATOM	8227	CA	ARG	1057	-7.687	114.997	39.638	1.00163.44
ATOM	8228	CB	ARG	1057	-9.047	114.325	39.889	1.00163.44
ATOM	8229	CG	ARG	1057	-10.193	114.956	39.095	1.00163.44
ATOM	8230	CD	ARG	1057	-10.214	116.486	39.159	1.00163.44
ATOM	8231	NE	ARG	1057	-9.358	116.975	38.042	1.00163.44
ATOM	8232	CZ	ARG	1057	-9.391	118.284	37.657	1.00163.44
ATOM	8233	NH1	ARG	1057	-10.171	119.178	38.332	1.00163.44
ATOM	8234	NH2	ARG	1057	-8.650	118.694	36.587	1.00163.44
ATOM	8235	C	ARG	1057	-6.715	114.434	40.617	1.00163.44
ATOM	8236	O	ARG	1057	-6.429	115.043	41.648	1.00163.44
ATOM	8237	N	ALA	1058	-6.170	113.245	40.309	1.00 64.76
ATOM	8238	CA	ALA	1058	-5.238	112.654	41.215	1.00 64.76
ATOM	8239	CB	ALA	1058	-4.726	111.294	40.735	1.00 64.76
ATOM	8240	C	ALA	1058	-4.060	113.551	41.339	1.00 64.76
ATOM	8241	O	ALA	1058	-3.738	113.955	42.442	1.00 64.76
ATOM	8242	N	ALA	1059	-3.461	113.999	40.222	1.00 62.82
ATOM	8243	CA	ALA	1059	-2.274	114.809	40.270	1.00 62.82
ATOM	8244	CB	ALA	1059	-1.832	115.305	38.880	1.00 62.82
ATOM	8245	C	ALA	1059	-2.585	116.014	41.099	1.00 62.82
ATOM	8246	O	ALA	1059	-1.714	116.534	41.797	1.00 62.82
ATOM	8247	N	LYS	1060	-3.835	116.509	41.027	1.00110.68
ATOM	8248	CA	LYS	1060	-4.144	117.664	41.817	1.00110.68
ATOM	8249	CB	LYS	1060	-5.532	118.237	41.501	1.00110.68
ATOM	8250	CG	LYS	1060	-5.543	118.942	40.143	1.00110.68
ATOM	8251	CD	LYS	1060	-6.934	119.244	39.597	1.00110.68
ATOM	8252	CE	LYS	1060	-6.907	120.133	38.352	1.00110.68
ATOM	8253	NZ	LYS	1060	-6.586	121.526	38.733	1.00110.68
ATOM	8254	C	LYS	1060	-4.047	117.391	43.299	1.00110.68
ATOM	8255	O	LYS	1060	-3.159	117.918	43.962	1.00110.68
ATOM	8256	N	GLU	1061	-4.887	116.489	43.849	1.00127.11
ATOM	8257	CA	GLU	1061	-4.900	116.231	45.271	1.00127.11
ATOM	8258	CB	GLU	1061	-6.003	115.252	45.708	1.00127.11
ATOM	8259	CG	GLU	1061	-7.384	115.899	45.773	1.00127.11
ATOM	8260	CD	GLU	1061	-7.388	116.827	46.979	1.00127.11
ATOM	8261	OE1	GLU	1061	-6.492	116.675	47.855	1.00127.11
ATOM	8262	OE2	GLU	1061	-8.289	117.704	47.040	1.00127.11
ATOM	8263	C	GLU	1061	-3.597	115.619	45.655	1.00127.11
ATOM	8264	O	GLU	1061	-3.145	115.714	46.794	1.00127.11
ATOM	8265	N	ALA	1062	-2.990	114.920	44.696	1.00 50.38
ATOM	8266	CA	ALA	1062	-1.746	114.240	44.857	1.00 50.38
ATOM	8267	CB	ALA	1062	-1.278	113.525	43.578	1.00 50.38
ATOM	8268	C	ALA	1062	-0.734	115.281	45.186	1.00 50.38
ATOM	8269	O	ALA	1062	0.112	115.083	46.055	1.00 50.38
ATOM	8270	N	ASN	1063	-0.844	116.448	44.529	1.00 83.20
ATOM	8271	CA	ASN	1063	0.080	117.526	44.720	1.00 83.20
ATOM	8272	CB	ASN	1063	0.374	117.809	46.205	1.00 83.20
ATOM	8273	CG	ASN	1063	-0.910	118.289	46.873	1.00 83.20
ATOM	8274	OD1	ASN	1063	-1.516	119.275	46.456	1.00 83.20
ATOM	8275	ND2	ASN	1063	-1.345	117.566	47.939	1.00 83.20
ATOM	8276	C	ASN	1063	1.372	117.184	44.046	1.00 83.20
ATOM	8277	O	ASN	1063	2.415	117.764	44.342	1.00 83.20
ATOM	8278	N	ILE	1064	1.339	116.177	43.157	1.00119.58
ATOM	8279	CA	ILE	1064	2.427	115.858	42.281	1.00119.58
ATOM	8280	CB	ILE	1064	2.440	114.497	41.681	1.00119.58
ATOM	8281	CG1	ILE	1064	3.780	114.383	40.932	1.00119.58

ATOM	8282	CG2	ILE	1064	1.188	114.305	40.809	1.00119.58	C
ATOM	8283	CD1	ILE	1064	4.230	112.975	40.603	1.00119.58	C
ATOM	8284	C	ILE	1064	2.407	116.862	41.182	1.00119.58	C
ATOM	8285	O	ILE	1064	3.378	117.051	40.452	1.00119.58	O
ATOM	8286	N	HIS	1065	1.235	117.495	41.022	1.00 94.61	N
ATOM	8287	CA	HIS	1065	0.914	118.399	39.961	1.00 94.61	C
ATOM	8288	ND1	HIS	1065	-0.398	120.828	38.322	1.00 94.61	N
ATOM	8289	CG	HIS	1065	-1.002	119.809	39.027	1.00 94.61	C
ATOM	8290	CB	HIS	1065	-0.411	119.135	40.229	1.00 94.61	C
ATOM	8291	NE2	HIS	1065	-2.358	120.447	37.341	1.00 94.61	N
ATOM	8292	CD2	HIS	1065	-2.197	119.590	38.413	1.00 94.61	C
ATOM	8293	CE1	HIS	1065	-1.252	121.171	37.326	1.00 94.61	C
ATOM	8294	C	HIS	1065	1.991	119.437	39.881	1.00 94.61	C
ATOM	8295	O	HIS	1065	2.228	119.983	38.806	1.00 94.61	O
ATOM	8296	N	ALA	1066	2.676	119.743	41.001	1.00 45.00	N
ATOM	8297	CA	ALA	1066	3.704	120.750	40.971	1.00 45.00	C
ATOM	8298	CB	ALA	1066	4.471	120.858	42.300	1.00 45.00	C
ATOM	8299	C	ALA	1066	4.697	120.361	39.916	1.00 45.00	C
ATOM	8300	O	ALA	1066	5.217	121.220	39.206	1.00 45.00	O
ATOM	8301	N	PHE	1067	5.019	119.058	39.826	1.00 79.71	N
ATOM	8302	CA	PHE	1067	5.871	118.520	38.801	1.00 79.71	C
ATOM	8303	CB	PHE	1067	6.374	117.108	39.137	1.00 79.71	C
ATOM	8304	CG	PHE	1067	7.337	117.324	40.249	1.00 79.71	C
ATOM	8305	CD1	PHE	1067	6.875	117.582	41.518	1.00 79.71	C
ATOM	8306	CD2	PHE	1067	8.694	117.276	40.025	1.00 79.71	C
ATOM	8307	CE1	PHE	1067	7.755	117.792	42.552	1.00 79.71	C
ATOM	8308	CE2	PHE	1067	9.578	117.485	41.056	1.00 79.71	C
ATOM	8309	CZ	PHE	1067	9.109	117.743	42.322	1.00 79.71	C
ATOM	8310	C	PHE	1067	5.135	118.488	37.496	1.00 79.71	C
ATOM	8311	O	PHE	1067	5.716	118.708	36.436	1.00 79.71	O
ATOM	8312	N	ILE	1068	3.825	118.187	37.542	1.00111.74	N
ATOM	8313	CA	ILE	1068	3.030	118.060	36.353	1.00111.74	C
ATOM	8314	CB	ILE	1068	1.616	117.649	36.622	1.00111.74	C
ATOM	8315	CG1	ILE	1068	1.545	116.157	36.986	1.00111.74	C
ATOM	8316	CG2	ILE	1068	0.782	118.046	35.394	1.00111.74	C
ATOM	8317	CD1	ILE	1068	2.254	115.803	38.288	1.00111.74	C
ATOM	8318	C	ILE	1068	2.951	119.346	35.603	1.00111.74	C
ATOM	8319	O	ILE	1068	3.000	119.350	34.375	1.00111.74	O
ATOM	8320	N	GLU	1069	2.797	120.476	36.308	1.00105.59	N
ATOM	8321	CA	GLU	1069	2.585	121.705	35.612	1.00105.59	C
ATOM	8322	CB	GLU	1069	2.462	122.871	36.599	1.00105.59	C
ATOM	8323	CG	GLU	1069	2.008	124.177	35.965	1.00105.59	C
ATOM	8324	CD	GLU	1069	1.949	125.209	37.080	1.00105.59	C
ATOM	8325	OE1	GLU	1069	2.117	124.802	38.261	1.00105.59	O
ATOM	8326	OE2	GLU	1069	1.738	126.412	36.771	1.00105.59	O
ATOM	8327	C	GLU	1069	3.737	122.010	34.696	1.00105.59	C
ATOM	8328	O	GLU	1069	3.547	122.133	33.487	1.00105.59	O
ATOM	8329	N	SER	1070	4.954	122.181	35.252	1.00 97.64	N
ATOM	8330	CA	SER	1070	6.101	122.513	34.450	1.00 97.64	C
ATOM	8331	CB	SER	1070	7.146	123.313	35.255	1.00 97.64	C
ATOM	8332	OG	SER	1070	7.517	122.609	36.431	1.00 97.64	O
ATOM	8333	C	SER	1070	6.771	121.339	33.810	1.00 97.64	C
ATOM	8334	O	SER	1070	6.523	121.028	32.644	1.00 97.64	O
ATOM	8335	N	LEU	1071	7.572	120.635	34.648	1.00198.15	N
ATOM	8336	CA	LEU	1071	8.493	119.552	34.401	1.00198.15	C
ATOM	8337	CB	LEU	1071	8.268	118.421	35.419	1.00198.15	C
ATOM	8338	CG	LEU	1071	9.269	117.259	35.382	1.00198.15	C
ATOM	8339	CD1	LEU	1071	10.681	117.710	35.792	1.00198.15	C
ATOM	8340	CD2	LEU	1071	8.752	116.096	36.237	1.00198.15	C
ATOM	8341	C	LEU	1071	8.315	119.029	33.018	1.00198.15	C
ATOM	8342	O	LEU	1071	7.229	118.591	32.636	1.00198.15	O
ATOM	8343	N	PRO	1072	9.394	119.042	32.277	1.00 94.25	N
ATOM	8344	CA	PRO	1072	9.405	118.749	30.872	1.00 94.25	C
ATOM	8345	CD	PRO	1072	10.715	119.339	32.807	1.00 94.25	C
ATOM	8346	CB	PRO	1072	10.882	118.648	30.485	1.00 94.25	C
ATOM	8347	CG	PRO	1072	11.610	119.474	31.563	1.00 94.25	C
ATOM	8348	C	PRO	1072	8.614	117.532	30.535	1.00 94.25	C
ATOM	8349	O	PRO	1072	8.632	116.562	31.287	1.00 94.25	O
ATOM	8350	N	ASN	1073	7.856	117.622	29.428	1.00 83.79	N
ATOM	8351	CA	ASN	1073	7.037	116.574	28.902	1.00 83.79	C
ATOM	8352	CB	ASN	1073	7.838	115.304	28.578	1.00 83.79	C
ATOM	8353	CG	ASN	1073	8.781	115.687	27.443	1.00 83.79	C
ATOM	8354	OD1	ASN	1073	8.574	116.696	26.769	1.00 83.79	O
ATOM	8355	ND2	ASN	1073	9.846	114.871	27.223	1.00 83.79	N

ATOM	8356	C	ASN	1073	5.918	116.262	29.847	1.00	83.79	C
ATOM	8357	O	ASN	1073	5.115	115.375	29.568	1.00	83.79	O
ATOM	8358	N	LYS	1074	5.803	117.024	30.957	1.00	149.50	N
ATOM	8359	CA	LYS	1074	4.689	116.907	31.860	1.00	149.50	C
ATOM	8360	CB	LYS	1074	3.418	117.555	31.286	1.00	149.50	C
ATOM	8361	CG	LYS	1074	3.561	119.063	31.071	1.00	149.50	C
ATOM	8362	CD	LYS	1074	2.508	119.662	30.132	1.00	149.50	C
ATOM	8363	CE	LYS	1074	2.986	119.810	28.684	1.00	149.50	C
ATOM	8364	NZ	LYS	1074	3.951	120.929	28.578	1.00	149.50	N
ATOM	8365	C	LYS	1074	4.379	115.473	32.189	1.00	149.50	C
ATOM	8366	O	LYS	1074	5.261	114.645	32.426	1.00	149.50	O
ATOM	8367	N	TYR	1075	3.070	115.153	32.155	1.00	162.12	N
ATOM	8368	CA	TYR	1075	2.536	113.870	32.517	1.00	162.12	C
ATOM	8369	CB	TYR	1075	1.036	113.695	32.212	1.00	162.12	C
ATOM	8370	CG	TYR	1075	0.184	114.598	33.039	1.00	162.12	C
ATOM	8371	CD1	TYR	1075	-0.076	114.301	34.357	1.00	162.12	C
ATOM	8372	CD2	TYR	1075	-0.356	115.744	32.500	1.00	162.12	C
ATOM	8373	CE1	TYR	1075	-0.869	115.124	35.122	1.00	162.12	C
ATOM	8374	CE2	TYR	1075	-1.151	116.570	33.259	1.00	162.12	C
ATOM	8375	CZ	TYR	1075	-1.412	116.260	34.571	1.00	162.12	C
ATOM	8376	OH	TYR	1075	-2.228	117.109	35.350	1.00	162.12	O
ATOM	8377	C	TYR	1075	3.207	112.828	31.692	1.00	162.12	C
ATOM	8378	O	TYR	1075	3.452	111.723	32.174	1.00	162.12	O
ATOM	8379	N	SER	1076	3.505	113.165	30.425	1.00	46.88	N
ATOM	8380	CA	SER	1076	4.058	112.257	29.461	1.00	46.88	C
ATOM	8381	CB	SER	1076	4.317	112.928	28.102	1.00	46.88	C
ATOM	8382	OG	SER	1076	3.091	113.340	27.520	1.00	46.88	O
ATOM	8383	C	SER	1076	5.374	111.732	29.933	1.00	46.88	C
ATOM	8384	O	SER	1076	5.800	110.668	29.483	1.00	46.88	O
ATOM	8385	N	THR	1077	6.050	112.449	30.851	1.00	53.61	N
ATOM	8386	CA	THR	1077	7.353	112.014	31.266	1.00	53.61	C
ATOM	8387	CB	THR	1077	7.939	112.832	32.377	1.00	53.61	C
ATOM	8388	OG1	THR	1077	7.947	114.201	32.017	1.00	53.61	O
ATOM	8389	CG2	THR	1077	9.381	112.356	32.623	1.00	53.61	C
ATOM	8390	C	THR	1077	7.250	110.627	31.797	1.00	53.61	C
ATOM	8391	O	THR	1077	6.534	110.347	32.758	1.00	53.61	O
ATOM	8392	N	LYS	1078	7.993	109.707	31.168	1.00	75.28	N
ATOM	8393	CA	LYS	1078	7.979	108.353	31.619	1.00	75.28	C
ATOM	8394	CB	LYS	1078	8.774	107.406	30.703	1.00	75.28	C
ATOM	8395	CG	LYS	1078	8.733	105.938	31.131	1.00	75.28	C
ATOM	8396	CD	LYS	1078	9.219	104.982	30.040	1.00	75.28	C
ATOM	8397	CE	LYS	1078	10.679	104.553	30.190	1.00	75.28	C
ATOM	8398	NZ	LYS	1078	11.051	103.645	29.083	1.00	75.28	N
ATOM	8399	C	LYS	1078	8.654	108.393	32.940	1.00	75.28	C
ATOM	8400	O	LYS	1078	9.332	109.360	33.274	1.00	75.28	O
ATOM	8401	N	VAL	1079	8.497	107.327	33.731	1.00	140.80	N
ATOM	8402	CA	VAL	1079	9.113	107.267	35.016	1.00	140.80	C
ATOM	8403	CB	VAL	1079	8.805	105.982	35.719	1.00	140.80	C
ATOM	8404	CG1	VAL	1079	9.198	104.822	34.812	1.00	140.80	C
ATOM	8405	CG2	VAL	1079	9.541	105.968	37.055	1.00	140.80	C
ATOM	8406	C	VAL	1079	10.583	107.417	34.772	1.00	140.80	C
ATOM	8407	O	VAL	1079	11.326	107.844	35.653	1.00	140.80	O
ATOM	8408	N	GLY	1080	11.041	107.049	33.558	1.00	66.51	N
ATOM	8409	CA	GLY	1080	12.399	107.293	33.173	1.00	66.51	C
ATOM	8410	C	GLY	1080	13.347	106.396	33.903	1.00	66.51	C
ATOM	8411	O	GLY	1080	13.781	106.703	35.009	1.00	66.51	O
ATOM	8412	N	ASP	1081	13.715	105.266	33.259	1.00	112.16	N
ATOM	8413	CA	ASP	1081	14.639	104.307	33.807	1.00	112.16	C
ATOM	8414	CB	ASP	1081	15.970	104.925	34.272	1.00	112.16	C
ATOM	8415	CG	ASP	1081	16.863	105.189	33.070	1.00	112.16	C
ATOM	8416	OD1	ASP	1081	16.850	104.361	32.120	1.00	112.16	O
ATOM	8417	OD2	ASP	1081	17.578	106.227	33.094	1.00	112.16	O
ATOM	8418	C	ASP	1081	14.054	103.631	34.994	1.00	112.16	C
ATOM	8419	O	ASP	1081	14.760	103.281	35.937	1.00	112.16	O
ATOM	8420	N	LYS	1082	12.739	103.399	34.949	1.00	137.91	N
ATOM	8421	CA	LYS	1082	12.077	102.674	35.988	1.00	137.91	C
ATOM	8422	CB	LYS	1082	12.733	101.314	36.270	1.00	137.91	C
ATOM	8423	CG	LYS	1082	12.614	100.357	35.083	1.00	137.91	C
ATOM	8424	CD	LYS	1082	13.350	100.870	33.846	1.00	137.91	C
ATOM	8425	CE	LYS	1082	13.212	99.974	32.617	1.00	137.91	C
ATOM	8426	NZ	LYS	1082	13.532	100.754	31.402	1.00	137.91	N
ATOM	8427	C	LYS	1082	12.055	103.471	37.256	1.00	137.91	C
ATOM	8428	O	LYS	1082	11.737	102.915	38.306	1.00	137.91	O
ATOM	8429	N	GLY	1083	12.307	104.800	37.194	1.00	67.83	N

ATOM	8430	CA	GLY	1083	12.120	105.569	38.395	1.00	67.83	C
ATOM	8431	C	GLY	1083	13.180	106.591	38.700	1.00	67.83	C
ATOM	8432	O	GLY	1083	12.834	107.769	38.748	1.00	67.83	O
ATOM	8433	N	THR	1084	14.471	106.219	38.856	1.00	76.74	N
ATOM	8434	CA	THR	1084	15.480	107.132	39.350	1.00	76.74	C
ATOM	8435	CB	THR	1084	16.866	106.567	39.240	1.00	76.74	C
ATOM	8436	OG1	THR	1084	16.953	105.338	39.945	1.00	76.74	O
ATOM	8437	CG2	THR	1084	17.865	107.583	39.816	1.00	76.74	C
ATOM	8438	C	THR	1084	15.491	108.418	38.581	1.00	76.74	C
ATOM	8439	O	THR	1084	16.149	108.514	37.548	1.00	76.74	O
ATOM	8440	N	GLN	1085	14.789	109.452	39.104	1.00	217.10	N
ATOM	8441	CA	GLN	1085	14.713	110.735	38.461	1.00	217.10	C
ATOM	8442	CB	GLN	1085	13.853	110.741	37.182	1.00	217.10	C
ATOM	8443	CG	GLN	1085	14.393	109.928	36.009	1.00	217.10	C
ATOM	8444	CD	GLN	1085	13.415	110.060	34.851	1.00	217.10	C
ATOM	8445	OE1	GLN	1085	12.203	110.150	35.054	1.00	217.10	O
ATOM	8446	NE2	GLN	1085	13.947	110.073	33.601	1.00	217.10	N
ATOM	8447	C	GLN	1085	13.977	111.666	39.377	1.00	217.10	C
ATOM	8448	O	GLN	1085	13.945	112.870	39.129	1.00	217.10	O
ATOM	8449	N	LEU	1086	13.311	111.138	40.428	1.00	87.01	N
ATOM	8450	CA	LEU	1086	12.585	112.008	41.315	1.00	87.01	C
ATOM	8451	CB	LEU	1086	11.112	112.240	40.936	1.00	87.01	C
ATOM	8452	CG	LEU	1086	10.944	113.203	39.747	1.00	87.01	C
ATOM	8453	CD1	LEU	1086	9.463	113.420	39.398	1.00	87.01	C
ATOM	8454	CD2	LEU	1086	11.677	114.529	40.018	1.00	87.01	C
ATOM	8455	C	LEU	1086	12.619	111.484	42.713	1.00	87.01	C
ATOM	8456	O	LEU	1086	12.646	110.276	42.948	1.00	87.01	O
ATOM	8457	N	SER	1087	12.583	112.412	43.692	1.00	88.07	N
ATOM	8458	CA	SER	1087	12.673	112.019	45.063	1.00	88.07	C
ATOM	8459	CB	SER	1087	12.892	113.169	46.062	1.00	88.07	C
ATOM	8460	OG	SER	1087	11.700	113.916	46.240	1.00	88.07	O
ATOM	8461	C	SER	1087	11.424	111.302	45.442	1.00	88.07	C
ATOM	8462	O	SER	1087	10.403	111.360	44.759	1.00	88.07	O
ATOM	8463	N	GLY	1088	11.503	110.596	46.579	1.00	39.43	N
ATOM	8464	CA	GLY	1088	10.438	109.780	47.069	1.00	39.43	C
ATOM	8465	C	GLY	1088	9.253	110.641	47.359	1.00	39.43	C
ATOM	8466	O	GLY	1088	8.115	110.183	47.265	1.00	39.43	O
ATOM	8467	N	GLY	1089	9.487	111.908	47.758	1.00	38.12	N
ATOM	8468	CA	GLY	1089	8.377	112.731	48.132	1.00	38.12	C
ATOM	8469	C	GLY	1089	7.439	112.836	46.976	1.00	38.12	C
ATOM	8470	O	GLY	1089	6.242	112.600	47.121	1.00	38.12	O
ATOM	8471	N	GLN	1090	7.965	113.154	45.781	1.00	100.34	N
ATOM	8472	CA	GLN	1090	7.122	113.283	44.629	1.00	100.34	C
ATOM	8473	CB	GLN	1090	7.887	113.654	43.350	1.00	100.34	C
ATOM	8474	CG	GLN	1090	8.491	115.055	43.361	1.00	100.34	C
ATOM	8475	CD	GLN	1090	9.709	115.072	44.272	1.00	100.34	C
ATOM	8476	OE1	GLN	1090	9.588	115.185	45.491	1.00	100.34	O
ATOM	8477	NE2	GLN	1090	10.919	114.967	43.662	1.00	100.34	N
ATOM	8478	C	GLN	1090	6.522	111.946	44.372	1.00	100.34	C
ATOM	8479	O	GLN	1090	5.344	111.820	44.039	1.00	100.34	O
ATOM	8480	N	LYS	1091	7.334	110.897	44.558	1.00	89.61	N
ATOM	8481	CA	LYS	1091	6.889	109.575	44.249	1.00	89.61	C
ATOM	8482	CB	LYS	1091	7.985	108.539	44.554	1.00	89.61	C
ATOM	8483	CG	LYS	1091	7.820	107.229	43.791	1.00	89.61	C
ATOM	8484	CD	LYS	1091	9.098	106.386	43.736	1.00	89.61	C
ATOM	8485	CE	LYS	1091	8.980	105.159	42.828	1.00	89.61	C
ATOM	8486	NZ	LYS	1091	10.283	104.462	42.738	1.00	89.61	N
ATOM	8487	C	LYS	1091	5.666	109.289	45.064	1.00	89.61	C
ATOM	8488	O	LYS	1091	4.659	108.812	44.544	1.00	89.61	O
ATOM	8489	N	GLN	1092	5.699	109.639	46.360	1.00	129.36	N
ATOM	8490	CA	GLN	1092	4.587	109.365	47.218	1.00	129.36	C
ATOM	8491	CB	GLN	1092	4.853	109.779	48.670	1.00	129.36	C
ATOM	8492	CG	GLN	1092	4.025	108.958	49.650	1.00	129.36	C
ATOM	8493	CD	GLN	1092	4.641	107.566	49.632	1.00	129.36	C
ATOM	8494	OE1	GLN	1092	4.833	106.970	48.573	1.00	129.36	O
ATOM	8495	NE2	GLN	1092	4.983	107.041	50.837	1.00	129.36	N
ATOM	8496	C	GLN	1092	3.421	110.149	46.707	1.00	129.36	C
ATOM	8497	O	GLN	1092	2.275	109.721	46.809	1.00	129.36	O
ATOM	8498	N	ARG	1093	3.678	111.341	46.144	1.00	97.34	N
ATOM	8499	CA	ARG	1093	2.585	112.114	45.636	1.00	97.34	C
ATOM	8500	CB	ARG	1093	3.041	113.426	44.973	1.00	97.34	C
ATOM	8501	CG	ARG	1093	3.517	114.482	45.970	1.00	97.34	C
ATOM	8502	CD	ARG	1093	4.086	115.736	45.307	1.00	97.34	C
ATOM	8503	NE	ARG	1093	4.334	116.752	46.373	1.00	97.34	N

ATOM	8504	CZ	ARG	1093	5.466	116.687	47.132	1.00	97.34	C
ATOM	8505	NH1	ARG	1093	6.308	115.620	47.010	1.00	97.34	N
ATOM	8506	NH2	ARG	1093	5.760	117.687	48.013	1.00	97.34	N
ATOM	8507	C	ARG	1093	1.895	111.289	44.590	1.00	97.34	C
ATOM	8508	O	ARG	1093	0.668	111.250	44.530	1.00	97.34	O
ATOM	8509	N	ILE	1094	2.674	110.595	43.739	1.00	70.19	N
ATOM	8510	CA	ILE	1094	2.108	109.805	42.675	1.00	70.19	C
ATOM	8511	CB	ILE	1094	3.158	109.134	41.833	1.00	70.19	C
ATOM	8512	CG1	ILE	1094	4.219	110.138	41.371	1.00	70.19	C
ATOM	8513	CG2	ILE	1094	2.449	108.442	40.655	1.00	70.19	C
ATOM	8514	CD1	ILE	1094	5.461	109.470	40.781	1.00	70.19	C
ATOM	8515	C	ILE	1094	1.322	108.664	43.253	1.00	70.19	C
ATOM	8516	O	ILE	1094	0.173	108.436	42.874	1.00	70.19	O
ATOM	8517	N	ALA	1095	1.917	107.941	44.228	1.00	47.70	N
ATOM	8518	CA	ALA	1095	1.309	106.749	44.750	1.00	47.70	C
ATOM	8519	CB	ALA	1095	2.108	106.138	45.914	1.00	47.70	C
ATOM	8520	C	ALA	1095	-0.031	107.124	45.283	1.00	47.70	C
ATOM	8521	O	ALA	1095	-1.024	106.453	45.011	1.00	47.70	O
ATOM	8522	N	ILE	1096	-0.097	108.242	46.024	1.00	110.82	N
ATOM	8523	CA	ILE	1096	-1.346	108.699	46.563	1.00	110.82	C
ATOM	8524	CB	ILE	1096	-1.244	109.927	47.423	1.00	110.82	C
ATOM	8525	CG1	ILE	1096	-0.724	109.561	48.826	1.00	110.82	C
ATOM	8526	CG2	ILE	1096	-2.627	110.603	47.440	1.00	110.82	C
ATOM	8527	CD1	ILE	1096	0.655	108.914	48.859	1.00	110.82	C
ATOM	8528	C	ILE	1096	-2.262	108.991	45.437	1.00	110.82	C
ATOM	8529	O	ILE	1096	-3.469	108.762	45.547	1.00	110.82	O
ATOM	8530	N	ALA	1097	-1.707	109.526	44.333	1.00	83.69	N
ATOM	8531	CA	ALA	1097	-2.558	109.826	43.231	1.00	83.69	C
ATOM	8532	CB	ALA	1097	-1.789	110.346	42.008	1.00	83.69	C
ATOM	8533	C	ALA	1097	-3.213	108.556	42.843	1.00	83.69	C
ATOM	8534	O	ALA	1097	-4.423	108.476	43.014	1.00	83.69	O
ATOM	8535	N	ARG	1098	-2.417	107.492	42.560	1.00	207.78	N
ATOM	8536	CA	ARG	1098	-2.954	106.275	42.009	1.00	207.78	C
ATOM	8537	CB	ARG	1098	-1.968	105.093	41.873	1.00	207.78	C
ATOM	8538	CG	ARG	1098	-1.502	104.471	43.189	1.00	207.78	C
ATOM	8539	CD	ARG	1098	-0.746	103.147	43.023	1.00	207.78	C
ATOM	8540	NE	ARG	1098	0.681	103.386	43.390	1.00	207.78	N
ATOM	8541	CZ	ARG	1098	1.623	102.418	43.207	1.00	207.78	C
ATOM	8542	NH1	ARG	1098	1.311	101.258	42.554	1.00	207.78	N
ATOM	8543	NH2	ARG	1098	2.890	102.608	43.676	1.00	207.78	N
ATOM	8544	C	ARG	1098	-4.058	105.842	42.913	1.00	207.78	C
ATOM	8545	O	ARG	1098	-5.142	105.509	42.441	1.00	207.78	O
ATOM	8546	N	ALA	1099	-3.840	105.945	44.241	1.00	78.55	N
ATOM	8547	CA	ALA	1099	-4.878	105.574	45.161	1.00	78.55	C
ATOM	8548	CB	ALA	1099	-4.412	105.640	46.624	1.00	78.55	C
ATOM	8549	C	ALA	1099	-6.088	106.456	45.043	1.00	78.55	C
ATOM	8550	O	ALA	1099	-7.173	105.995	44.710	1.00	78.55	O
ATOM	8551	N	LEU	1100	-5.924	107.776	45.182	1.00	105.67	N
ATOM	8552	CA	LEU	1100	-7.047	108.671	45.158	1.00	105.67	C
ATOM	8553	CB	LEU	1100	-6.618	110.133	45.364	1.00	105.67	C
ATOM	8554	CG	LEU	1100	-7.774	111.136	45.257	1.00	105.67	C
ATOM	8555	CD1	LEU	1100	-8.874	110.817	46.279	1.00	105.67	C
ATOM	8556	CD2	LEU	1100	-7.269	112.583	45.367	1.00	105.67	C
ATOM	8557	C	LEU	1100	-7.707	108.561	43.813	1.00	105.67	C
ATOM	8558	O	LEU	1100	-8.830	109.017	43.610	1.00	105.67	O
ATOM	8559	N	VAL	1101	-6.968	108.066	42.810	1.00	70.77	N
ATOM	8560	CA	VAL	1101	-7.502	107.896	41.489	1.00	70.77	C
ATOM	8561	CB	VAL	1101	-6.507	107.459	40.455	1.00	70.77	C
ATOM	8562	CG1	VAL	1101	-7.251	107.327	39.117	1.00	70.77	C
ATOM	8563	CG2	VAL	1101	-5.323	108.432	40.425	1.00	70.77	C
ATOM	8564	C	VAL	1101	-8.518	106.804	41.536	1.00	70.77	C
ATOM	8565	O	VAL	1101	-9.541	106.858	40.857	1.00	70.77	O
ATOM	8566	N	ARG	1102	-8.217	105.762	42.332	1.00	141.23	N
ATOM	8567	CA	ARG	1102	-9.022	104.587	42.529	1.00	141.23	C
ATOM	8568	CB	ARG	1102	-8.276	103.469	43.280	1.00	141.23	C
ATOM	8569	CG	ARG	1102	-9.072	102.167	43.384	1.00	141.23	C
ATOM	8570	CD	ARG	1102	-8.202	100.907	43.335	1.00	141.23	C
ATOM	8571	NE	ARG	1102	-6.851	101.249	43.860	1.00	141.23	N
ATOM	8572	CZ	ARG	1102	-5.744	100.617	43.364	1.00	141.23	C
ATOM	8573	NH1	ARG	1102	-5.859	99.724	42.340	1.00	141.23	N
ATOM	8574	NH2	ARG	1102	-4.513	100.882	43.893	1.00	141.23	N
ATOM	8575	C	ARG	1102	-10.269	104.978	43.261	1.00	141.23	C
ATOM	8576	O	ARG	1102	-11.277	104.277	43.208	1.00	141.23	O
ATOM	8577	N	GLN	1103	-10.234	106.126	43.962	1.00	83.11	N

ATOM	8578	CA	GLN	1103	-11.352	106.558	44.756	1.00	83.11	C
ATOM	8579	CB	GLN	1103	-12.589	106.910	43.910	1.00	83.11	C
ATOM	8580	CG	GLN	1103	-12.366	108.032	42.893	1.00	83.11	C
ATOM	8581	CD	GLN	1103	-12.300	109.367	43.622	1.00	83.11	C
ATOM	8582	OE1	GLN	1103	-12.105	109.423	44.836	1.00	83.11	O
ATOM	8583	NE2	GLN	1103	-12.467	110.479	42.856	1.00	83.11	N
ATOM	8584	C	GLN	1103	-11.766	105.464	45.713	1.00	83.11	C
ATOM	8585	O	GLN	1103	-12.851	104.901	45.556	1.00	83.11	O
ATOM	8586	N	PRO	1104	-10.949	105.123	46.695	1.00	130.51	N
ATOM	8587	CA	PRO	1104	-11.296	104.091	47.641	1.00	130.51	C
ATOM	8588	CD	PRO	1104	-9.498	105.254	46.587	1.00	130.51	C
ATOM	8589	CB	PRO	1104	-9.994	103.644	48.301	1.00	130.51	C
ATOM	8590	CG	PRO	1104	-8.905	104.034	47.296	1.00	130.51	C
ATOM	8591	C	PRO	1104	-12.247	104.624	48.666	1.00	130.51	C
ATOM	8592	O	PRO	1104	-12.756	105.727	48.486	1.00	130.51	O
ATOM	8593	N	HIS	1105	-12.707	103.755	49.587	1.00	130.90	N
ATOM	8594	CA	HIS	1105	-13.414	104.107	50.787	1.00	130.90	C
ATOM	8595	ND1	HIS	1105	-15.551	103.047	48.599	1.00	130.90	N
ATOM	8596	CG	HIS	1105	-15.661	103.550	49.877	1.00	130.90	C
ATOM	8597	CB	HIS	1105	-14.678	103.257	50.976	1.00	130.90	C
ATOM	8598	NE2	HIS	1105	-17.354	104.349	48.616	1.00	130.90	N
ATOM	8599	CD2	HIS	1105	-16.767	104.342	49.870	1.00	130.90	C
ATOM	8600	CE1	HIS	1105	-16.587	103.556	47.889	1.00	130.90	C
ATOM	8601	C	HIS	1105	-12.550	104.036	52.020	1.00	130.90	C
ATOM	8602	O	HIS	1105	-12.803	104.704	53.021	1.00	130.90	O
ATOM	8603	N	ILE	1106	-11.530	103.156	52.002	1.00	131.92	N
ATOM	8604	CA	ILE	1106	-10.710	102.918	53.159	1.00	131.92	C
ATOM	8605	CB	ILE	1106	-10.824	101.487	53.636	1.00	131.92	C
ATOM	8606	CG1	ILE	1106	-10.459	101.296	55.125	1.00	131.92	C
ATOM	8607	CG2	ILE	1106	-10.001	100.618	52.672	1.00	131.92	C
ATOM	8608	CD1	ILE	1106	-8.990	101.467	55.496	1.00	131.92	C
ATOM	8609	C	ILE	1106	-9.303	103.196	52.702	1.00	131.92	C
ATOM	8610	O	ILE	1106	-9.065	103.256	51.497	1.00	131.92	O
ATOM	8611	N	LEU	1107	-8.353	103.466	53.631	1.00	90.08	N
ATOM	8612	CA	LEU	1107	-6.995	103.730	53.217	1.00	90.08	C
ATOM	8613	CB	LEU	1107	-6.632	105.222	53.258	1.00	90.08	C
ATOM	8614	CG	LEU	1107	-7.526	106.129	52.392	1.00	90.08	C
ATOM	8615	CD1	LEU	1107	-7.084	107.595	52.505	1.00	90.08	C
ATOM	8616	CD2	LEU	1107	-7.585	105.644	50.934	1.00	90.08	C
ATOM	8617	C	LEU	1107	-6.023	103.052	54.147	1.00	90.08	C
ATOM	8618	O	LEU	1107	-6.207	103.025	55.362	1.00	90.08	O
ATOM	8619	N	LEU	1108	-4.939	102.483	53.582	1.00	83.25	N
ATOM	8620	CA	LEU	1108	-3.898	101.867	54.349	1.00	83.25	C
ATOM	8621	CB	LEU	1108	-3.546	100.458	53.841	1.00	83.25	C
ATOM	8622	CG	LEU	1108	-4.756	99.501	53.811	1.00	83.25	C
ATOM	8623	CD1	LEU	1108	-4.346	98.094	53.350	1.00	83.25	C
ATOM	8624	CD2	LEU	1108	-5.508	99.499	55.153	1.00	83.25	C
ATOM	8625	C	LEU	1108	-2.682	102.720	54.160	1.00	83.25	C
ATOM	8626	O	LEU	1108	-1.963	102.601	53.168	1.00	83.25	O
ATOM	8627	N	LEU	1109	-2.418	103.608	55.131	1.00	137.68	N
ATOM	8628	CA	LEU	1109	-1.288	104.480	55.029	1.00	137.68	C
ATOM	8629	CB	LEU	1109	-1.665	105.900	55.477	1.00	137.68	C
ATOM	8630	CG	LEU	1109	-2.571	106.635	54.458	1.00	137.68	C
ATOM	8631	CD1	LEU	1109	-3.756	105.788	53.969	1.00	137.68	C
ATOM	8632	CD2	LEU	1109	-3.104	107.928	55.070	1.00	137.68	C
ATOM	8633	C	LEU	1109	-0.240	103.898	55.922	1.00	137.68	C
ATOM	8634	O	LEU	1109	-0.142	104.238	57.100	1.00	137.68	O
ATOM	8635	N	ASP	1110	0.595	103.017	55.334	1.00	75.65	N
ATOM	8636	CA	ASP	1110	1.579	102.247	56.037	1.00	75.65	C
ATOM	8637	CB	ASP	1110	1.929	100.953	55.274	1.00	75.65	C
ATOM	8638	CG	ASP	1110	2.856	100.056	56.088	1.00	75.65	C
ATOM	8639	OD1	ASP	1110	3.875	100.552	56.640	1.00	75.65	O
ATOM	8640	OD2	ASP	1110	2.546	98.837	56.160	1.00	75.65	O
ATOM	8641	C	ASP	1110	2.832	103.039	56.188	1.00	75.65	C
ATOM	8642	O	ASP	1110	3.748	102.885	55.380	1.00	75.65	O
ATOM	8643	N	GLU	1111	2.881	103.898	57.232	1.00	92.58	N
ATOM	8644	CA	GLU	1111	4.041	104.673	57.584	1.00	92.58	C
ATOM	8645	CB	GLU	1111	5.182	103.835	58.191	1.00	92.58	C
ATOM	8646	CG	GLU	1111	4.856	103.236	59.555	1.00	92.58	C
ATOM	8647	CD	GLU	1111	6.080	102.471	60.039	1.00	92.58	C
ATOM	8648	OE1	GLU	1111	6.670	101.712	59.224	1.00	92.58	O
ATOM	8649	OE2	GLU	1111	6.449	102.645	61.230	1.00	92.58	O
ATOM	8650	C	GLU	1111	4.583	105.282	56.343	1.00	92.58	C
ATOM	8651	O	GLU	1111	5.804	105.371	56.209	1.00	92.58	O

ATOM	8652	N	ALA	1112	3.689	105.779	55.457	1.00	79.86	N
ATOM	8653	CA	ALA	1112	4.096	106.140	54.130	1.00	79.86	C
ATOM	8654	CB	ALA	1112	2.969	106.839	53.350	1.00	79.86	C
ATOM	8655	C	ALA	1112	5.254	107.082	54.186	1.00	79.86	C
ATOM	8656	O	ALA	1112	6.346	106.710	53.765	1.00	79.86	O
ATOM	8657	N	THR	1113	5.116	108.242	54.848	1.00	145.86	N
ATOM	8658	CA	THR	1113	6.232	109.143	54.882	1.00	145.86	C
ATOM	8659	CB	THR	1113	5.795	110.566	55.080	1.00	145.86	C
ATOM	8660	OG1	THR	1113	4.910	110.958	54.042	1.00	145.86	O
ATOM	8661	CG2	THR	1113	7.027	111.479	55.080	1.00	145.86	C
ATOM	8662	C	THR	1113	7.046	108.750	56.080	1.00	145.86	C
ATOM	8663	O	THR	1113	6.858	109.270	57.179	1.00	145.86	O
ATOM	8664	N	SER	1114	7.887	107.713	55.918	1.00	94.69	N
ATOM	8665	CA	SER	1114	8.804	107.264	56.925	1.00	94.69	C
ATOM	8666	CB	SER	1114	8.965	105.733	56.899	1.00	94.69	C
ATOM	8667	OG	SER	1114	9.839	105.305	57.932	1.00	94.69	O
ATOM	8668	C	SER	1114	10.143	107.890	56.693	1.00	94.69	C
ATOM	8669	O	SER	1114	10.980	107.918	57.589	1.00	94.69	O
ATOM	8670	N	ALA	1115	10.414	108.332	55.448	1.00	63.31	N
ATOM	8671	CA	ALA	1115	11.663	108.975	55.161	1.00	63.31	C
ATOM	8672	CB	ALA	1115	12.692	108.044	54.496	1.00	63.31	C
ATOM	8673	C	ALA	1115	11.355	110.066	54.184	1.00	63.31	C
ATOM	8674	O	ALA	1115	10.876	109.797	53.083	1.00	63.31	O
ATOM	8675	N	LEU	1116	11.637	111.329	54.566	1.00	199.17	N
ATOM	8676	CA	LEU	1116	11.354	112.464	53.731	1.00	199.17	C
ATOM	8677	CB	LEU	1116	9.852	112.749	53.506	1.00	199.17	C
ATOM	8678	CG	LEU	1116	9.167	111.849	52.461	1.00	199.17	C
ATOM	8679	CD1	LEU	1116	7.678	112.191	52.290	1.00	199.17	C
ATOM	8680	CD2	LEU	1116	9.905	111.920	51.118	1.00	199.17	C
ATOM	8681	C	LEU	1116	11.928	113.696	54.367	1.00	199.17	C
ATOM	8682	O	LEU	1116	12.816	113.611	55.215	1.00	199.17	O
ATOM	8683	N	ASP	1117	11.440	114.879	53.914	1.00	169.22	N
ATOM	8684	CA	ASP	1117	11.862	116.172	54.395	1.00	169.22	C
ATOM	8685	CB	ASP	1117	12.605	117.015	53.356	1.00	169.22	C
ATOM	8686	CG	ASP	1117	13.943	116.379	53.039	1.00	169.22	C
ATOM	8687	OD1	ASP	1117	14.466	115.593	53.873	1.00	169.22	O
ATOM	8688	OD2	ASP	1117	14.458	116.686	51.934	1.00	169.22	O
ATOM	8689	C	ASP	1117	10.658	117.009	54.738	1.00	169.22	C
ATOM	8690	O	ASP	1117	9.524	116.541	54.693	1.00	169.22	O
ATOM	8691	N	THR	1118	10.904	118.308	55.050	1.00	184.01	N
ATOM	8692	CA	THR	1118	9.921	119.228	55.567	1.00	184.01	C
ATOM	8693	CB	THR	1118	10.483	120.593	55.845	1.00	184.01	C
ATOM	8694	OG1	THR	1118	10.943	121.202	54.646	1.00	184.01	O
ATOM	8695	CG2	THR	1118	11.639	120.444	56.842	1.00	184.01	C
ATOM	8696	C	THR	1118	8.724	119.455	54.684	1.00	184.01	C
ATOM	8697	O	THR	1118	7.602	119.176	55.100	1.00	184.01	O
ATOM	8698	N	GLU	1119	8.910	119.966	53.452	1.00	118.59	N
ATOM	8699	CA	GLU	1119	7.798	120.295	52.597	1.00	118.59	C
ATOM	8700	CB	GLU	1119	8.212	121.112	51.365	1.00	118.59	C
ATOM	8701	CG	GLU	1119	9.177	120.374	50.442	1.00	118.59	C
ATOM	8702	CD	GLU	1119	9.462	121.283	49.258	1.00	118.59	C
ATOM	8703	OE1	GLU	1119	8.478	121.822	48.683	1.00	118.59	O
ATOM	8704	OE2	GLU	1119	10.662	121.456	48.916	1.00	118.59	O
ATOM	8705	C	GLU	1119	7.157	119.045	52.104	1.00	118.59	C
ATOM	8706	O	GLU	1119	5.951	118.983	51.880	1.00	118.59	O
ATOM	8707	N	SER	1120	7.978	118.019	51.857	1.00	97.98	N
ATOM	8708	CA	SER	1120	7.427	116.802	51.366	1.00	97.98	C
ATOM	8709	CB	SER	1120	8.516	115.776	51.003	1.00	97.98	C
ATOM	8710	OG	SER	1120	9.340	115.515	52.129	1.00	97.98	O
ATOM	8711	C	SER	1120	6.563	116.240	52.434	1.00	97.98	C
ATOM	8712	O	SER	1120	5.390	115.949	52.209	1.00	97.98	O
ATOM	8713	N	GLU	1121	7.113	116.130	53.656	1.00	75.28	N
ATOM	8714	CA	GLU	1121	6.356	115.512	54.697	1.00	75.28	C
ATOM	8715	CB	GLU	1121	7.108	115.488	56.034	1.00	75.28	C
ATOM	8716	CG	GLU	1121	8.284	114.512	56.055	1.00	75.28	C
ATOM	8717	CD	GLU	1121	9.096	114.805	57.307	1.00	75.28	C
ATOM	8718	OE1	GLU	1121	9.061	115.975	57.772	1.00	75.28	O
ATOM	8719	OE2	GLU	1121	9.763	113.862	57.812	1.00	75.28	O
ATOM	8720	C	GLU	1121	5.105	116.296	54.909	1.00	75.28	C
ATOM	8721	O	GLU	1121	4.008	115.760	54.776	1.00	75.28	O
ATOM	8722	N	LYS	1122	5.240	117.614	55.144	1.00	119.74	N
ATOM	8723	CA	LYS	1122	4.103	118.421	55.470	1.00	119.74	C
ATOM	8724	CB	LYS	1122	4.491	119.895	55.743	1.00	119.74	C
ATOM	8725	CG	LYS	1122	3.322	120.853	56.016	1.00	119.74	C

ATOM	8726	CD	LYS	1122	2.520	121.234	54.765	1.00119.74	C
ATOM	8727	CE	LYS	1122	1.104	121.740	55.029	1.00119.74	C
ATOM	8728	NZ	LYS	1122	0.308	121.619	53.786	1.00119.74	N
ATOM	8729	C	LYS	1122	3.094	118.394	54.371	1.00119.74	C
ATOM	8730	O	LYS	1122	1.935	118.066	54.612	1.00119.74	O
ATOM	8731	N	VAL	1123	3.507	118.683	53.125	1.00102.81	N
ATOM	8732	CA	VAL	1123	2.546	118.816	52.066	1.00102.81	C
ATOM	8733	CB	VAL	1123	3.154	119.129	50.724	1.00102.81	C
ATOM	8734	CG1	VAL	1123	4.005	117.935	50.263	1.00102.81	C
ATOM	8735	CG2	VAL	1123	2.017	119.478	49.747	1.00102.81	C
ATOM	8736	C	VAL	1123	1.795	117.531	51.934	1.00102.81	C
ATOM	8737	O	VAL	1123	0.586	117.534	51.712	1.00102.81	O
ATOM	8738	N	VAL	1124	2.504	116.398	52.083	1.00 51.08	N
ATOM	8739	CA	VAL	1124	1.926	115.094	51.948	1.00 51.08	C
ATOM	8740	CB	VAL	1124	2.924	113.979	52.095	1.00 51.08	C
ATOM	8741	CG1	VAL	1124	2.153	112.651	52.157	1.00 51.08	C
ATOM	8742	CG2	VAL	1124	3.917	114.036	50.923	1.00 51.08	C
ATOM	8743	C	VAL	1124	0.904	114.892	53.016	1.00 51.08	C
ATOM	8744	O	VAL	1124	-0.125	114.267	52.779	1.00 51.08	O
ATOM	8745	N	GLN	1125	1.169	115.405	54.230	1.00 51.11	N
ATOM	8746	CA	GLN	1125	0.259	115.254	55.325	1.00 51.11	C
ATOM	8747	CB	GLN	1125	0.760	115.929	56.611	1.00 51.11	C
ATOM	8748	CG	GLN	1125	2.086	115.370	57.129	1.00 51.11	C
ATOM	8749	CD	GLN	1125	1.851	113.954	57.634	1.00 51.11	C
ATOM	8750	OE1	GLN	1125	0.793	113.367	57.413	1.00 51.11	O
ATOM	8751	NE2	GLN	1125	2.871	113.387	58.331	1.00 51.11	N
ATOM	8752	C	GLN	1125	-0.996	115.946	54.920	1.00 51.11	C
ATOM	8753	O	GLN	1125	-2.089	115.526	55.295	1.00 51.11	O
ATOM	8754	N	GLU	1126	-0.850	117.063	54.180	1.00 76.40	N
ATOM	8755	CA	GLU	1126	-1.965	117.811	53.683	1.00 76.40	C
ATOM	8756	CB	GLU	1126	-1.558	119.128	52.993	1.00 76.40	C
ATOM	8757	CG	GLU	1126	-2.741	119.964	52.485	1.00 76.40	C
ATOM	8758	CD	GLU	1126	-3.027	119.609	51.029	1.00 76.40	C
ATOM	8759	OE1	GLU	1126	-2.115	119.806	50.184	1.00 76.40	O
ATOM	8760	OE2	GLU	1126	-4.163	119.143	50.740	1.00 76.40	O
ATOM	8761	C	GLU	1126	-2.687	116.975	52.674	1.00 76.40	C
ATOM	8762	O	GLU	1126	-3.917	116.966	52.640	1.00 76.40	O
ATOM	8763	N	ALA	1127	-1.940	116.269	51.799	1.00 57.99	N
ATOM	8764	CA	ALA	1127	-2.597	115.462	50.810	1.00 57.99	C
ATOM	8765	CB	ALA	1127	-1.619	114.820	49.815	1.00 57.99	C
ATOM	8766	C	ALA	1127	-3.334	114.359	51.501	1.00 57.99	C
ATOM	8767	O	ALA	1127	-4.547	114.231	51.380	1.00 57.99	O
ATOM	8768	N	LEU	1128	-2.623	113.623	52.369	1.00124.56	N
ATOM	8769	CA	LEU	1128	-3.158	112.510	53.093	1.00124.56	C
ATOM	8770	CB	LEU	1128	-2.108	111.999	54.107	1.00124.56	C
ATOM	8771	CG	LEU	1128	-2.472	110.797	55.007	1.00124.56	C
ATOM	8772	CD1	LEU	1128	-1.278	110.428	55.903	1.00124.56	C
ATOM	8773	CD2	LEU	1128	-3.739	111.011	55.850	1.00124.56	O
ATOM	8774	C	LEU	1128	-4.322	113.068	53.845	1.00124.56	C
ATOM	8775	O	LEU	1128	-5.324	112.383	54.057	1.00124.56	O
ATOM	8776	N	ASP	1129	-4.191	114.336	54.289	1.00 67.05	N
ATOM	8777	CA	ASP	1129	-5.216	114.971	55.064	1.00 67.05	C
ATOM	8778	CB	ASP	1129	-4.825	116.395	55.490	1.00 67.05	C
ATOM	8779	CG	ASP	1129	-5.908	116.936	56.415	1.00 67.05	C
ATOM	8780	OD1	ASP	1129	-6.810	116.148	56.808	1.00 67.05	O
ATOM	8781	OD2	ASP	1129	-5.849	118.151	56.742	1.00 67.05	O
ATOM	8782	C	ASP	1129	-6.500	115.088	54.295	1.00 67.05	C
ATOM	8783	O	ASP	1129	-7.511	114.496	54.667	1.00 67.05	O
ATOM	8784	N	LYS	1130	-6.479	115.815	53.163	1.00139.04	N
ATOM	8785	CA	LYS	1130	-7.657	116.071	52.379	1.00139.04	C
ATOM	8786	CB	LYS	1130	-7.389	116.996	51.179	1.00139.04	C
ATOM	8787	CG	LYS	1130	-6.742	118.329	51.564	1.00139.04	C
ATOM	8788	CD	LYS	1130	-7.519	119.113	52.622	1.00139.04	C
ATOM	8789	CE	LYS	1130	-7.089	118.780	54.053	1.00139.04	C
ATOM	8790	NZ	LYS	1130	-7.895	119.557	55.020	1.00139.04	N
ATOM	8791	C	LYS	1130	-8.090	114.763	51.825	1.00139.04	C
ATOM	8792	O	LYS	1130	-9.255	114.548	51.499	1.00139.04	O
ATOM	8793	N	ALA	1131	-7.108	113.869	51.667	1.00 46.64	N
ATOM	8794	CA	ALA	1131	-7.290	112.567	51.119	1.00 46.64	C
ATOM	8795	CB	ALA	1131	-5.982	111.764	51.050	1.00 46.64	C
ATOM	8796	C	ALA	1131	-8.230	111.820	52.006	1.00 46.64	C
ATOM	8797	O	ALA	1131	-9.025	111.015	51.525	1.00 46.64	O
ATOM	8798	N	ARG	1132	-8.133	112.050	53.333	1.00 93.77	N
ATOM	8799	CA	ARG	1132	-8.954	111.341	54.272	1.00 93.77	C

ATOM	8800	CB	ARG	1132	-8.239	110.996	55.578	1.00	93.77	C
ATOM	8801	CG	ARG	1132	-7.839	112.234	56.372	1.00	93.77	C
ATOM	8802	CD	ARG	1132	-7.117	111.887	57.671	1.00	93.77	C
ATOM	8803	NE	ARG	1132	-7.067	113.116	58.507	1.00	93.77	N
ATOM	8804	CZ	ARG	1132	-5.866	113.656	58.858	1.00	93.77	C
ATOM	8805	NH1	ARG	1132	-4.705	113.087	58.417	1.00	93.77	N
ATOM	8806	NH2	ARG	1132	-5.829	114.759	59.659	1.00	93.77	N
ATOM	8807	C	ARG	1132	-10.135	112.185	54.646	1.00	93.77	C
ATOM	8808	O	ARG	1132	-10.418	113.213	54.037	1.00	93.77	O
ATOM	8809	N	GLU	1133	-10.915	111.688	55.627	1.00	117.29	N
ATOM	8810	CA	GLU	1133	-12.100	112.286	56.187	1.00	117.29	C
ATOM	8811	CB	GLU	1133	-11.935	113.774	56.541	1.00	117.29	C
ATOM	8812	CG	GLU	1133	-13.168	114.364	57.232	1.00	117.29	C
ATOM	8813	CD	GLU	1133	-13.235	113.802	58.648	1.00	117.29	C
ATOM	8814	OE1	GLU	1133	-13.735	112.660	58.810	1.00	117.29	O
ATOM	8815	OE2	GLU	1133	-12.779	114.512	59.587	1.00	117.29	O
ATOM	8816	C	GLU	1133	-13.202	112.170	55.188	1.00	117.29	C
ATOM	8817	O	GLU	1133	-14.382	112.206	55.532	1.00	117.29	O
ATOM	8818	N	GLY	1134	-12.833	112.014	53.910	1.00	56.42	N
ATOM	8819	CA	GLY	1134	-13.756	111.706	52.870	1.00	56.42	C
ATOM	8820	C	GLY	1134	-14.056	110.259	53.051	1.00	56.42	C
ATOM	8821	O	GLY	1134	-15.145	109.782	52.735	1.00	56.42	O
ATOM	8822	N	ARG	1135	-13.030	109.524	53.535	1.00	266.43	N
ATOM	8823	CA	ARG	1135	-13.105	108.096	53.647	1.00	266.43	C
ATOM	8824	CB	ARG	1135	-12.305	107.349	52.574	1.00	266.43	C
ATOM	8825	CG	ARG	1135	-12.791	107.513	51.150	1.00	266.43	C
ATOM	8826	CD	ARG	1135	-12.384	108.852	50.544	1.00	266.43	C
ATOM	8827	NE	ARG	1135	-10.901	108.936	50.610	1.00	266.43	N
ATOM	8828	CZ	ARG	1135	-10.139	108.309	49.668	1.00	266.43	C
ATOM	8829	NH1	ARG	1135	-10.733	107.529	48.717	1.00	266.43	N
ATOM	8830	NH2	ARG	1135	-8.782	108.456	49.674	1.00	266.43	N
ATOM	8831	C	ARG	1135	-12.415	107.637	54.886	1.00	266.43	C
ATOM	8832	O	ARG	1135	-11.612	108.351	55.485	1.00	266.43	O
ATOM	8833	N	THR	1136	-12.705	106.376	55.260	1.00	48.62	N
ATOM	8834	CA	THR	1136	-12.086	105.754	56.388	1.00	48.62	C
ATOM	8835	CB	THR	1136	-12.756	104.474	56.797	1.00	48.62	C
ATOM	8836	OG1	THR	1136	-14.115	104.713	57.126	1.00	48.62	O
ATOM	8837	CG2	THR	1136	-12.013	103.887	58.007	1.00	48.62	C
ATOM	8838	C	THR	1136	-10.688	105.413	55.992	1.00	48.62	C
ATOM	8839	O	THR	1136	-10.422	105.065	54.841	1.00	48.62	O
ATOM	8840	N	CYS	1137	-9.738	105.536	56.941	1.00	69.05	N
ATOM	8841	CA	CYS	1137	-8.398	105.184	56.587	1.00	69.05	C
ATOM	8842	CB	CYS	1137	-7.665	106.287	55.800	1.00	69.05	C
ATOM	8843	SG	CYS	1137	-7.477	107.845	56.714	1.00	69.05	S
ATOM	8844	C	CYS	1137	-7.615	104.863	57.818	1.00	69.05	C
ATOM	8845	O	CYS	1137	-7.617	105.599	58.804	1.00	69.05	O
ATOM	8846	N	ILE	1138	-6.887	103.736	57.781	1.00	68.51	N
ATOM	8847	CA	ILE	1138	-6.101	103.402	58.922	1.00	68.51	C
ATOM	8848	CB	ILE	1138	-6.017	101.924	59.182	1.00	68.51	C
ATOM	8849	CG1	ILE	1138	-7.429	101.343	59.371	1.00	68.51	C
ATOM	8850	CG2	ILE	1138	-5.120	101.703	60.410	1.00	68.51	C
ATOM	8851	CD1	ILE	1138	-7.464	99.816	59.397	1.00	68.51	C
ATOM	8852	C	ILE	1138	-4.743	103.921	58.620	1.00	68.51	C
ATOM	8853	O	ILE	1138	-3.994	103.357	57.822	1.00	68.51	O
ATOM	8854	N	VAL	1139	-4.424	105.074	59.232	1.00	135.89	N
ATOM	8855	CA	VAL	1139	-3.118	105.607	59.059	1.00	135.89	C
ATOM	8856	CB	VAL	1139	-3.040	107.112	59.102	1.00	135.89	C
ATOM	8857	CG1	VAL	1139	-3.852	107.656	57.922	1.00	135.89	C
ATOM	8858	CG2	VAL	1139	-3.544	107.644	60.450	1.00	135.89	C
ATOM	8859	C	VAL	1139	-2.341	105.023	60.184	1.00	135.89	C
ATOM	8860	O	VAL	1139	-2.652	105.230	61.358	1.00	135.89	O
ATOM	8861	N	ILE	1140	-1.326	104.211	59.851	1.00	148.69	N
ATOM	8862	CA	ILE	1140	-0.589	103.664	60.943	1.00	148.69	C
ATOM	8863	CB	ILE	1140	-0.506	102.164	61.018	1.00	148.69	C
ATOM	8864	CG1	ILE	1140	0.493	101.594	60.011	1.00	148.69	C
ATOM	8865	CG2	ILE	1140	-1.931	101.639	60.775	1.00	148.69	C
ATOM	8866	CD1	ILE	1140	0.163	101.961	58.589	1.00	148.69	C
ATOM	8867	C	ILE	1140	0.789	104.150	60.708	1.00	148.69	C
ATOM	8868	O	ILE	1140	1.199	104.321	59.560	1.00	148.69	O
ATOM	8869	N	ALA	1141	1.536	104.439	61.783	1.00	70.56	N
ATOM	8870	CA	ALA	1141	2.834	104.959	61.509	1.00	70.56	C
ATOM	8871	CB	ALA	1141	2.800	106.411	61.004	1.00	70.56	C
ATOM	8872	C	ALA	1141	3.673	104.952	62.741	1.00	70.56	C
ATOM	8873	O	ALA	1141	3.228	104.628	63.843	1.00	70.56	O

ATOM	8874	N	HIS	1142	4.974	105.190	62.502	1.00111.45	N
ATOM	8875	CA	HIS	1142	6.000	105.395	63.475	1.00111.45	C
ATOM	8876	ND1	HIS	1142	8.350	104.201	65.211	1.00111.45	N
ATOM	8877	CG	HIS	1142	8.378	105.077	64.150	1.00111.45	C
ATOM	8878	CB	HIS	1142	7.412	105.024	63.003	1.00111.45	C
ATOM	8879	NE2	HIS	1142	10.001	105.633	65.613	1.00111.45	N
ATOM	8880	CD2	HIS	1142	9.395	105.946	64.411	1.00111.45	C
ATOM	8881	CE1	HIS	1142	9.340	104.580	66.057	1.00111.45	C
ATOM	8882	C	HIS	1142	6.009	106.837	63.876	1.00111.45	C
ATOM	8883	O	HIS	1142	6.726	107.221	64.796	1.00111.45	O
ATOM	8884	N	ARG	1143	5.304	107.697	63.115	1.00225.38	N
ATOM	8885	CA	ARG	1143	5.343	109.104	63.395	1.00225.38	C
ATOM	8886	CB	ARG	1143	4.731	109.932	62.256	1.00225.38	C
ATOM	8887	CG	ARG	1143	5.276	111.354	62.168	1.00225.38	C
ATOM	8888	CD	ARG	1143	6.664	111.403	61.525	1.00225.38	C
ATOM	8889	NE	ARG	1143	6.494	111.036	60.089	1.00225.38	N
ATOM	8890	CZ	ARG	1143	6.196	112.003	59.173	1.00225.38	C
ATOM	8891	NH1	ARG	1143	6.108	113.307	59.568	1.00225.38	N
ATOM	8892	NH2	ARG	1143	5.986	111.683	57.863	1.00225.38	N
ATOM	8893	C	ARG	1143	4.507	109.327	64.618	1.00225.38	C
ATOM	8894	O	ARG	1143	3.397	109.853	64.561	1.00225.38	O
ATOM	8895	N	LEU	1144	5.094	109.019	65.783	1.00141.17	N
ATOM	8896	CA	LEU	1144	4.424	109.046	67.044	1.00141.17	C
ATOM	8897	CB	LEU	1144	5.366	108.711	68.207	1.00141.17	C
ATOM	8898	CG	LEU	1144	6.179	107.420	67.990	1.00141.17	C
ATOM	8899	CD1	LEU	1144	6.984	107.062	69.248	1.00141.17	C
ATOM	8900	CD2	LEU	1144	5.317	106.260	67.464	1.00141.17	C
ATOM	8901	C	LEU	1144	3.936	110.443	67.263	1.00141.17	C
ATOM	8902	O	LEU	1144	2.945	110.657	67.957	1.00141.17	O
ATOM	8903	N	SER	1145	4.691	111.431	66.745	1.00 66.53	N
ATOM	8904	CA	SER	1145	4.366	112.827	66.872	1.00 66.53	C
ATOM	8905	CB	SER	1145	5.521	113.730	66.410	1.00 66.53	C
ATOM	8906	OG	SER	1145	5.824	113.466	65.048	1.00 66.53	O
ATOM	8907	C	SER	1145	3.139	113.236	66.094	1.00 66.53	C
ATOM	8908	O	SER	1145	2.145	113.676	66.667	1.00 66.53	O
ATOM	8909	N	THR	1146	3.180	113.055	64.760	1.00145.08	N
ATOM	8910	CA	THR	1146	2.201	113.497	63.792	1.00145.08	C
ATOM	8911	CB	THR	1146	2.676	113.278	62.383	1.00145.08	C
ATOM	8912	OG1	THR	1146	3.869	114.012	62.159	1.00145.08	O
ATOM	8913	CG2	THR	1146	1.592	113.723	61.390	1.00145.08	C
ATOM	8914	C	THR	1146	0.897	112.773	63.957	1.00145.08	C
ATOM	8915	O	THR	1146	-0.138	113.196	63.446	1.00145.08	O
ATOM	8916	N	ILE	1147	0.925	111.624	64.634	1.00 94.69	N
ATOM	8917	CA	ILE	1147	-0.213	110.763	64.796	1.00 94.69	C
ATOM	8918	CB	ILE	1147	0.100	109.472	65.478	1.00 94.69	C
ATOM	8919	CG1	ILE	1147	-1.083	108.509	65.277	1.00 94.69	C
ATOM	8920	CG2	ILE	1147	0.452	109.768	66.946	1.00 94.69	C
ATOM	8921	CD1	ILE	1147	-0.755	107.048	65.563	1.00 94.69	C
ATOM	8922	C	ILE	1147	-1.352	111.425	65.526	1.00 94.69	C
ATOM	8923	O	ILE	1147	-2.497	110.984	65.418	1.00 94.69	O
ATOM	8924	N	GLN	1148	-1.078	112.489	66.299	1.00126.00	N
ATOM	8925	CA	GLN	1148	-2.025	113.086	67.199	1.00126.00	C
ATOM	8926	CB	GLN	1148	-1.508	114.418	67.769	1.00126.00	C
ATOM	8927	CG	GLN	1148	-2.305	114.929	68.968	1.00126.00	C
ATOM	8928	CD	GLN	1148	-1.678	116.243	69.413	1.00126.00	C
ATOM	8929	OE1	GLN	1148	-1.939	117.295	68.833	1.00126.00	O
ATOM	8930	NE2	GLN	1148	-0.824	116.185	70.469	1.00126.00	N
ATOM	8931	C	GLN	1148	-3.347	113.357	66.530	1.00126.00	C
ATOM	8932	O	GLN	1148	-4.387	113.210	67.169	1.00126.00	O
ATOM	8933	N	ASN	1149	-3.383	113.778	65.253	1.00152.39	N
ATOM	8934	CA	ASN	1149	-4.674	114.011	64.663	1.00152.39	C
ATOM	8935	CB	ASN	1149	-4.600	114.936	63.433	1.00152.39	C
ATOM	8936	CG	ASN	1149	-3.589	114.385	62.429	1.00152.39	C
ATOM	8937	OD1	ASN	1149	-2.843	113.450	62.712	1.00152.39	O
ATOM	8938	ND2	ASN	1149	-3.537	115.007	61.222	1.00152.39	N
ATOM	8939	C	ASN	1149	-5.281	112.693	64.265	1.00152.39	C
ATOM	8940	O	ASN	1149	-5.429	112.396	63.079	1.00152.39	O
ATOM	8941	N	ALA	1150	-5.715	111.889	65.265	1.00 57.36	N
ATOM	8942	CA	ALA	1150	-6.273	110.593	64.984	1.00 57.36	C
ATOM	8943	CB	ALA	1150	-5.381	109.434	65.459	1.00 57.36	C
ATOM	8944	C	ALA	1150	-7.589	110.457	65.685	1.00 57.36	C
ATOM	8945	O	ALA	1150	-7.786	111.004	66.769	1.00 57.36	O
ATOM	8946	N	ASP	1151	-8.555	109.769	65.034	1.00 74.18	N
ATOM	8947	CA	ASP	1151	-9.848	109.565	65.627	1.00 74.18	C

ATOM	8948	CB	ASP	1151	-10.856	108.986	64.624	1.00	74.18	C
ATOM	8949	CG	ASP	1151	-11.080	110.052	63.560	1.00	74.18	C
ATOM	8950	OD1	ASP	1151	-10.500	111.161	63.706	1.00	74.18	O
ATOM	8951	OD2	ASP	1151	-11.826	109.772	62.586	1.00	74.18	O
ATOM	8952	C	ASP	1151	-9.751	108.618	66.782	1.00	74.18	C
ATOM	8953	O	ASP	1151	-10.053	108.975	67.920	1.00	74.18	O
ATOM	8954	N	LEU	1152	-9.289	107.377	66.524	1.00	131.02	N
ATOM	8955	CA	LEU	1152	-9.161	106.441	67.603	1.00	131.02	C
ATOM	8956	CB	LEU	1152	-10.156	105.267	67.551	1.00	131.02	C
ATOM	8957	CG	LEU	1152	-10.238	104.406	68.836	1.00	131.02	C
ATOM	8958	CD1	LEU	1152	-11.224	103.255	68.640	1.00	131.02	C
ATOM	8959	CD2	LEU	1152	-8.880	103.899	69.343	1.00	131.02	C
ATOM	8960	C	LEU	1152	-7.789	105.879	67.473	1.00	131.02	C
ATOM	8961	O	LEU	1152	-7.479	105.183	66.507	1.00	131.02	O
ATOM	8962	N	ILE	1153	-6.939	106.138	68.479	1.00	92.49	N
ATOM	8963	CA	ILE	1153	-5.581	105.697	68.416	1.00	92.49	C
ATOM	8964	CB	ILE	1153	-4.616	106.715	68.969	1.00	92.49	C
ATOM	8965	CG1	ILE	1153	-4.677	108.011	68.142	1.00	92.49	C
ATOM	8966	CG2	ILE	1153	-3.213	106.089	69.015	1.00	92.49	C
ATOM	8967	CD1	ILE	1153	-5.985	108.789	68.288	1.00	92.49	C
ATOM	8968	C	ILE	1153	-5.474	104.457	69.236	1.00	92.49	C
ATOM	8969	O	ILE	1153	-5.713	104.464	70.442	1.00	92.49	O
ATOM	8970	N	VAL	1154	-5.107	103.343	68.573	1.00	47.54	N
ATOM	8971	CA	VAL	1154	-5.002	102.086	69.251	1.00	47.54	C
ATOM	8972	CB	VAL	1154	-5.621	100.951	68.488	1.00	47.54	C
ATOM	8973	CG1	VAL	1154	-5.347	99.640	69.242	1.00	47.54	C
ATOM	8974	CG2	VAL	1154	-7.113	101.256	68.281	1.00	47.54	C
ATOM	8975	C	VAL	1154	-3.558	101.748	69.401	1.00	47.54	C
ATOM	8976	O	VAL	1154	-2.782	101.812	68.448	1.00	47.54	O
ATOM	8977	N	VAL	1155	-3.173	101.378	70.636	1.00	55.98	N
ATOM	8978	CA	VAL	1155	-1.826	100.984	70.912	1.00	55.98	C
ATOM	8979	CB	VAL	1155	-1.334	101.469	72.246	1.00	55.98	C
ATOM	8980	CG1	VAL	1155	0.103	100.966	72.455	1.00	55.98	C
ATOM	8981	CG2	VAL	1155	-1.476	102.999	72.298	1.00	55.98	C
ATOM	8982	C	VAL	1155	-1.841	99.498	70.963	1.00	55.98	C
ATOM	8983	O	VAL	1155	-2.413	98.889	71.866	1.00	55.98	O
ATOM	8984	N	PHE	1156	-1.179	98.885	69.973	1.00	123.92	N
ATOM	8985	CA	PHE	1156	-1.152	97.467	69.822	1.00	123.92	C
ATOM	8986	CB	PHE	1156	-1.392	97.135	68.334	1.00	123.92	C
ATOM	8987	CG	PHE	1156	-1.325	95.691	67.972	1.00	123.92	C
ATOM	8988	CD1	PHE	1156	-2.294	94.800	68.370	1.00	123.92	C
ATOM	8989	CD2	PHE	1156	-0.300	95.249	67.167	1.00	123.92	C
ATOM	8990	CE1	PHE	1156	-2.218	93.478	67.996	1.00	123.92	C
ATOM	8991	CE2	PHE	1156	-0.218	93.931	66.789	1.00	123.92	C
ATOM	8992	CZ	PHE	1156	-1.180	93.045	67.207	1.00	123.92	C
ATOM	8993	C	PHE	1156	0.202	97.006	70.250	1.00	123.92	C
ATOM	8994	O	PHE	1156	1.220	97.581	69.868	1.00	123.92	O
ATOM	8995	N	GLN	1157	0.243	95.982	71.118	1.00	80.31	N
ATOM	8996	CA	GLN	1157	1.493	95.404	71.505	1.00	80.31	C
ATOM	8997	CB	GLN	1157	1.572	95.094	73.007	1.00	80.31	C
ATOM	8998	CG	GLN	1157	2.904	94.481	73.430	1.00	80.31	C
ATOM	8999	CD	GLN	1157	3.961	95.564	73.293	1.00	80.31	C
ATOM	9000	OE1	GLN	1157	4.158	96.127	72.217	1.00	80.31	O
ATOM	9001	NE2	GLN	1157	4.655	95.877	74.420	1.00	80.31	N
ATOM	9002	C	GLN	1157	1.460	94.118	70.783	1.00	80.31	C
ATOM	9003	O	GLN	1157	0.645	93.276	71.145	1.00	80.31	O
ATOM	9004	N	ASN	1158	2.387	93.939	69.811	1.00	92.94	N
ATOM	9005	CA	ASN	1158	2.387	92.882	68.828	1.00	92.94	C
ATOM	9006	CB	ASN	1158	3.784	92.516	68.299	1.00	92.94	C
ATOM	9007	CG	ASN	1158	4.162	93.577	67.275	1.00	92.94	C
ATOM	9008	OD1	ASN	1158	3.454	93.775	66.288	1.00	92.94	O
ATOM	9009	ND2	ASN	1158	5.298	94.285	67.514	1.00	92.94	N
ATOM	9010	C	ASN	1158	1.715	91.640	69.309	1.00	92.94	C
ATOM	9011	O	ASN	1158	2.174	90.945	70.213	1.00	92.94	O
ATOM	9012	N	GLY	1159	0.538	91.393	68.704	1.00	47.99	N
ATOM	9013	CA	GLY	1159	-0.292	90.258	68.960	1.00	47.99	C
ATOM	9014	C	GLY	1159	-1.477	90.628	69.810	1.00	47.99	C
ATOM	9015	O	GLY	1159	-2.525	89.991	69.699	1.00	47.99	O
ATOM	9016	N	ARG	1160	-1.371	91.677	70.654	1.00	162.09	N
ATOM	9017	CA	ARG	1160	-2.440	91.978	71.576	1.00	162.09	C
ATOM	9018	CB	ARG	1160	-2.039	91.615	73.006	1.00	162.09	C
ATOM	9019	CG	ARG	1160	-1.328	90.268	73.092	1.00	162.09	C
ATOM	9020	CD	ARG	1160	-0.298	90.246	74.219	1.00	162.09	C
ATOM	9021	NE	ARG	1160	0.363	88.912	74.213	1.00	162.09	N

ATOM	9022	CZ	ARG	1160	1.339	88.648	75.130	1.00162.09	
ATOM	9023	NH1	ARG	1160	1.658	89.584	76.071	1.00162.09	
ATOM	9024	NH2	ARG	1160	1.999	87.453	75.104	1.00162.09	
ATOM	9025	C	ARG	1160	-2.636	93.468	71.632	1.00162.09	
ATOM	9026	O	ARG	1160	-1.663	94.220	71.627	1.00162.09	
ATOM	9027	N	VAL	1161	-3.900	93.942	71.735	1.00127.99	
ATOM	9028	CA	VAL	1161	-4.125	95.365	71.819	1.00127.99	
ATOM	9029	CB	VAL	1161	-5.346	95.809	71.060	1.00127.99	
ATOM	9030	CG1	VAL	1161	-6.560	95.005	71.556	1.00127.99	
ATOM	9031	CG2	VAL	1161	-5.500	97.330	71.231	1.00127.99	
ATOM	9032	C	VAL	1161	-4.281	95.757	73.267	1.00127.99	
ATOM	9033	O	VAL	1161	-5.227	95.346	73.938	1.00127.99	
ATOM	9034	N	LYS	1162	-3.273	96.491	73.793	1.00 98.25	
ATOM	9035	CA	LYS	1162	-3.192	96.963	75.151	1.00 98.25	
ATOM	9036	CB	LYS	1162	-1.734	97.198	75.564	1.00 98.25	
ATOM	9037	CG	LYS	1162	-1.518	97.206	77.076	1.00 98.25	
ATOM	9038	CD	LYS	1162	-0.050	97.020	77.455	1.00 98.25	
ATOM	9039	CE	LYS	1162	0.144	96.495	78.876	1.00 98.25	
ATOM	9040	NZ	LYS	1162	1.581	96.226	79.122	1.00 98.25	
ATOM	9041	C	LYS	1162	-3.956	98.228	75.465	1.00 98.25	
ATOM	9042	O	LYS	1162	-4.639	98.306	76.486	1.00 98.25	
ATOM	9043	N	GLU	1163	-3.860	99.276	74.615	1.00 90.89	
ATOM	9044	CA	GLU	1163	-4.450	100.530	75.016	1.00 90.89	
ATOM	9045	CB	GLU	1163	-3.408	101.546	75.518	1.00 90.89	
ATOM	9046	CG	GLU	1163	-2.655	101.073	76.765	1.00 90.89	
ATOM	9047	CD	GLU	1163	-1.745	102.201	77.227	1.00 90.89	
ATOM	9048	OE1	GLU	1163	-1.873	103.325	76.671	1.00 90.89	
ATOM	9049	OE2	GLU	1163	-0.917	101.958	78.145	1.00 90.89	
ATOM	9050	C	GLU	1163	-5.135	101.139	73.835	1.00 90.89	
ATOM	9051	O	GLU	1163	-5.029	100.630	72.720	1.00 90.89	
ATOM	9052	N	HIS	1164	-5.917	102.220	74.065	1.00 62.81	
ATOM	9053	CA	HIS	1164	-6.530	102.900	72.957	1.00 62.81	
ATOM	9054	ND1	HIS	1164	-9.861	102.394	72.489	1.00 62.81	
ATOM	9055	CG	HIS	1164	-8.723	101.634	72.640	1.00 62.81	
ATOM	9056	CB	HIS	1164	-7.393	102.000	72.053	1.00 62.81	
ATOM	9057	NE2	HIS	1164	-10.441	100.620	73.697	1.00 62.81	
ATOM	9058	CD2	HIS	1164	-9.095	100.553	73.382	1.00 62.81	
ATOM	9059	CE1	HIS	1164	-10.859	101.742	73.139	1.00 62.81	
ATOM	9060	C	HIS	1164	-7.399	104.004	73.475	1.00 62.81	
ATOM	9061	O	HIS	1164	-7.722	104.052	74.662	1.00 62.81	
ATOM	9062	N	GLY	1165	-7.791	104.933	72.575	1.00 26.90	
ATOM	9063	CA	GLY	1165	-8.630	106.038	72.942	1.00 26.90	
ATOM	9064	C	GLY	1165	-8.097	107.263	72.262	1.00 26.90	
ATOM	9065	O	GLY	1165	-7.440	107.178	71.225	1.00 26.90	
ATOM	9066	N	THR	1166	-8.395	10			

ATOM	9096	CD	GLN	1169	-10.484	109.358	76.225	1.00	77.83	
ATOM	9097	OE1	GLN	1169	-10.358	108.795	75.139	1.00	77.83	
ATOM	9098	NE2	GLN	1169	-11.584	109.196	77.009	1.00	77.83	
ATOM	9099	C	GLN	1169	-5.773	109.154	77.299	1.00	77.83	
ATOM	9100	O	GLN	1169	-5.591	108.589	78.375	1.00	77.83	
ATOM	9101	N	LEU	1170	-5.046	108.871	76.201	1.00	54.54	
ATOM	9102	CA	LEU	1170	-4.014	107.870	76.232	1.00	54.54	
ATOM	9103	CB	LEU	1170	-3.341	107.667	74.861	1.00	54.54	
ATOM	9104	CG	LEU	1170	-4.216	106.989	73.793	1.00	54.54	
ATOM	9105	CD1	LEU	1170	-3.450	106.840	72.469	1.00	54.54	
ATOM	9106	CD2	LEU	1170	-4.765	105.642	74.299	1.00	54.54	
ATOM	9107	C	LEU	1170	-2.933	108.300	77.171	1.00	54.54	
ATOM	9108	O	LEU	1170	-2.470	107.513	77.997	1.00	54.54	
ATOM	9109	N	LEU	1171	-2.510	109.572	77.073	1.00	52.19	
ATOM	9110	CA	LEU	1171	-1.452	110.073	77.898	1.00	52.19	
ATOM	9111	CB	LEU	1171	-1.071	111.521	77.554	1.00	52.19	
ATOM	9112	CG	LEU	1171	0.195	111.992	78.281	1.00	52.19	
ATOM	9113	CD1	LEU	1171	1.406	111.144	77.862	1.00	52.19	
ATOM	9114	CD2	LEU	1171	0.436	113.495	78.072	1.00	52.19	
ATOM	9115	C	LEU	1171	-1.955	110.029	79.297	1.00	52.19	
ATOM	9116	O	LEU	1171	-1.206	109.763	80.237	1.00	52.19	
ATOM	9117	N	ALA	1172	-3.268	110.274	79.458	1.00	35.06	
ATOM	9118	CA	ALA	1172	-3.852	110.257	80.760	1.00	35.06	
ATOM	9119	CB	ALA	1172	-5.376	110.456	80.736	1.00	35.06	
ATOM	9120	C	ALA	1172	-3.580	108.900	81.305	1.00	35.06	
ATOM	9121	O	ALA	1172	-3.199	108.762	82.467	1.00	35.06	
ATOM	9122	N	GLN	1173	-3.750	107.849	80.476	1.00	113.54	
ATOM	9123	CA	GLN	1173	-3.388	106.572	81.004	1.00	113.54	
ATOM	9124	CB	GLN	1173	-4.047	105.354	80.322	1.00	113.54	
ATOM	9125	CG	GLN	1173	-5.477	105.056	80.796	1.00	113.54	
ATOM	9126	CD	GLN	1173	-6.449	105.991	80.094	1.00	113.54	
ATOM	9127	OE1	GLN	1173	-7.018	106.893	80.707	1.00	113.54	
ATOM	9128	NE2	GLN	1173	-6.649	105.769	78.768	1.00	113.54	
ATOM	9129	C	GLN	1173	-1.911	106.472	80.852	1.00	113.54	
ATOM	9130	O	GLN	1173	-1.398	105.837	79.933	1.00	113.54	
ATOM	9131	N	LYS	1174	-1.182	107.093	81.797	1.00	82.32	
ATOM	9132	CA	LYS	1174	0.244	107.068	81.720	1.00	82.32	
ATOM	9133	CB	LYS	1174	0.944	107.804	82.876	1.00	82.32	
ATOM	9134	CG	LYS	1174	0.774	109.322	82.818	1.00	82.32	
ATOM	9135	CD	LYS	1174	-0.670	109.786	83.016	1.00	82.32	
ATOM	9136	CE	LYS	1174	-0.849	111.289	82.804	1.00	82.32	
ATOM	9137	NZ	LYS	1174	-2.272	111.655	82.957	1.00	82.32	
ATOM	9138	C</								

ATOM	9170	CE1	PHE	1178	5.671	109.819	80.216	1.00109.29	
ATOM	9171	CE2	PHE	1178	3.576	110.905	80.487	1.00109.29	
ATOM	9172	CZ	PHE	1178	4.946	110.921	80.598	1.00109.29	
ATOM	9173	C	PHE	1178	4.593	107.143	77.281	1.00109.29	
ATOM	9174	O	PHE	1178	5.329	107.994	76.784	1.00109.29	
ATOM	9175	N	SER	1179	5.044	105.921	77.601	1.00 38.91	
ATOM	9176	CA	SER	1179	6.438	105.639	77.490	1.00 38.91	
ATOM	9177	CB	SER	1179	6.785	104.204	77.912	1.00 38.91	
ATOM	9178	OG	SER	1179	8.181	103.981	77.781	1.00 38.91	
ATOM	9179	C	SER	1179	6.828	105.816	76.062	1.00 38.91	
ATOM	9180	O	SER	1179	7.962	106.182	75.777	1.00 38.91	
ATOM	9181	N	MET	1180	5.914	105.562	75.109	1.00154.47	
ATOM	9182	CA	MET	1180	6.312	105.735	73.738	1.00154.47	
ATOM	9183	CB	MET	1180	5.305	105.222	72.692	1.00154.47	
ATOM	9184	CG	MET	1180	4.141	106.162	72.393	1.00154.47	
ATOM	9185	SD	MET	1180	3.129	105.667	70.969	1.00154.47	
ATOM	9186	CE	MET	1180	2.497	104.159	71.758	1.00154.47	
ATOM	9187	C	MET	1180	6.562	107.183	73.463	1.00154.47	
ATOM	9188	O	MET	1180	7.510	107.532	72.760	1.00154.47	
ATOM	9189	N	VAL	1181	5.712	108.084	73.991	1.00135.18	
ATOM	9190	CA	VAL	1181	6.006	109.456	73.727	1.00135.18	
ATOM	9191	CB	VAL	1181	4.906	110.433	74.056	1.00135.18	
ATOM	9192	CG1	VAL	1181	3.808	110.256	72.994	1.00135.18	
ATOM	9193	CG2	VAL	1181	4.381	110.194	75.475	1.00135.18	
ATOM	9194	C	VAL	1181	7.286	109.749	74.432	1.00135.18	
ATOM	9195	O	VAL	1181	8.087	110.571	73.994	1.00135.18	
ATOM	9196	N	SER	1182	7.508	109.045	75.552	1.00 95.39	
ATOM	9197	CA	SER	1182	8.700	109.183	76.333	1.00 95.39	
ATOM	9198	CB	SER	1182	8.640	108.280	77.575	1.00 95.39	
ATOM	9199	OG	SER	1182	9.821	108.418	78.342	1.00 95.39	
ATOM	9200	C	SER	1182	9.917	108.789	75.510	1.00 95.39	
ATOM	9201	O	SER	1182	10.919	109.504	75.507	1.00 95.39	
ATOM	9202	N	VAL	1183	9.856	107.649	74.776	1.00 74.70	
ATOM	9203	CA	VAL	1183	10.920	107.102	73.954	1.00 74.70	
ATOM	9204	CB	VAL	1183	10.479	105.860	73.247	1.00 74.70	
ATOM	9205	CG1	VAL	1183	11.586	105.439	72.273	1.00 74.70	
ATOM	9206	CG2	VAL	1183	10.122	104.793	74.296	1.00 74.70	
ATOM	9207	C	VAL	1183	11.200	108.148	72.916	1.00 74.70	
ATOM	9208	O	VAL	1183	12.356	108.431	72.606	1.00 74.70	
ATOM	9209	N	GLN	1184	10.131	108.764	72.366	1.00 58.81	
ATOM	9210	CA	GLN	1184	10.269	109.741	71.318	1.00 58.81	
ATOM	9211	CB	GLN	1184	8.940	110.185	70.681	1.00 58.81	
ATOM	9212	CG	GLN	1184	9.153	111.212	69.563	1.00 58.81	
ATOM	9213	CD	GLN	1184	7.802	111.575	68.967	1.00 58.81	
ATOM	9214	OE1	GLN	1184	6.				