

Coordinates homology-model of human cytochrome bc1 complex

ATOM	1	N	THR	2	66.638	90.256	124.043	1.00	0.00	N1+
ATOM	2	CA	THR	2	66.904	89.189	125.039	1.00	0.00	C
ATOM	3	C	THR	2	66.190	89.544	126.341	1.00	0.00	C
ATOM	4	O	THR	2	65.915	90.726	126.558	1.00	0.00	O
ATOM	5	CB	THR	2	68.399	89.031	125.319	1.00	0.00	C
ATOM	6	OG1	THR	2	68.973	90.278	125.525	1.00	0.00	O
ATOM	7	CG2	THR	2	69.132	88.358	124.161	1.00	0.00	C
ATOM	8	H1	THR	2	66.984	91.138	124.394	1.00	0.00	H
ATOM	9	H2	THR	2	65.643	90.325	123.881	1.00	0.00	H
ATOM	10	H3	THR	2	67.106	90.032	123.176	1.00	0.00	H
ATOM	11	HA	THR	2	66.536	88.246	124.634	1.00	0.00	H
ATOM	12	HB	THR	2	68.493	88.404	126.206	1.00	0.00	H
ATOM	13	HG21	THR	2	68.690	87.380	123.970	1.00	0.00	H
ATOM	14	HG22	THR	2	69.045	88.976	123.268	1.00	0.00	H
ATOM	15	HG23	THR	2	70.184	88.237	124.418	1.00	0.00	H

ATOM	16	HG1 THR	2	68.862	90.785	124.718	1.00	0.00	H
ATOM	17	N PRO	3	65.751	88.544	127.128	1.00	0.00	N
ATOM	18	CA PRO	3	65.181	88.785	128.462	1.00	0.00	C
ATOM	19	C PRO	3	66.261	89.072	129.531	1.00	0.00	C
ATOM	20	O PRO	3	67.482	88.919	129.268	1.00	0.00	O
ATOM	21	CB PRO	3	64.403	87.496	128.757	1.00	0.00	C
ATOM	22	CG PRO	3	65.311	86.444	128.123	1.00	0.00	C
ATOM	23	CD PRO	3	65.800	87.118	126.840	1.00	0.00	C
ATOM	24	HA PRO	3	64.552	89.675	128.488	1.00	0.00	H
ATOM	25	HB2 PRO	3	64.293	87.333	129.829	1.00	0.00	H
ATOM	26	HB3 PRO	3	63.419	87.508	128.288	1.00	0.00	H
ATOM	27	HG2 PRO	3	64.754	85.534	127.897	1.00	0.00	H
ATOM	28	HG3 PRO	3	66.147	86.205	128.780	1.00	0.00	H
ATOM	29	HD2 PRO	3	65.146	86.872	126.004	1.00	0.00	H
ATOM	30	HD3 PRO	3	66.819	86.808	126.607	1.00	0.00	H

ATOM	31	N	MET	4	65.808	89.370	130.755	1.00	0.00	N
ATOM	32	CA	MET	4	66.687	89.508	131.924	1.00	0.00	C
ATOM	33	C	MET	4	66.944	88.153	132.605	1.00	0.00	C
ATOM	34	O	MET	4	68.091	87.757	132.830	1.00	0.00	O
ATOM	35	CB	MET	4	66.069	90.541	132.890	1.00	0.00	C
ATOM	36	CG	MET	4	66.903	90.796	134.153	1.00	0.00	C
ATOM	37	SD	MET	4	68.527	91.546	133.842	1.00	0.00	S
ATOM	38	CE	MET	4	68.968	91.992	135.544	1.00	0.00	C
ATOM	39	H	MET	4	64.815	89.506	130.881	1.00	0.00	H
ATOM	40	HA	MET	4	67.665	89.867	131.603	1.00	0.00	H
ATOM	41	HB2	MET	4	65.087	90.179	133.195	1.00	0.00	H
ATOM	42	HB3	MET	4	65.958	91.485	132.357	1.00	0.00	H
ATOM	43	HG2	MET	4	67.059	89.842	134.657	1.00	0.00	H
ATOM	44	HG3	MET	4	66.339	91.463	134.805	1.00	0.00	H
ATOM	45	HE1	MET	4	68.224	92.681	135.944	1.00	0.00	H
ATOM	46	HE2	MET	4	68.998	91.093	136.159	1.00	0.00	H

ATOM	47	HE3 MET	4	69.947	92.471	135.552	1.00	0.00	H
ATOM	48	N ARG	5	65.865	87.381	132.792	1.00	0.00	N
ATOM	49	CA ARG	5	65.867	86.037	133.407	1.00	0.00	C
ATOM	50	C ARG	5	66.930	85.069	132.852	1.00	0.00	C
ATOM	51	O ARG	5	67.575	84.351	133.607	1.00	0.00	O
ATOM	52	CB ARG	5	64.482	85.377	133.231	1.00	0.00	C
ATOM	53	CG ARG	5	63.641	85.354	134.526	1.00	0.00	C
ATOM	54	CD ARG	5	62.194	84.914	134.183	1.00	0.00	C
ATOM	55	NE ARG	5	62.271	83.665	133.399	1.00	0.00	N
ATOM	56	CZ ARG	5	61.731	83.442	132.213	1.00	0.00	C
ATOM	57	NH1 ARG	5	60.875	84.244	131.648	1.00	0.00	N
ATOM	58	NH2 ARG	5	62.069	82.378	131.562	1.00	0.00	N1+
ATOM	59	H ARG	5	64.975	87.749	132.487	1.00	0.00	H
ATOM	60	HA ARG	5	66.112	86.209	134.455	1.00	0.00	H
ATOM	61	HB2 ARG	5	63.930	85.930	132.471	1.00	0.00	H

ATOM	62	HB3 ARG	5	64.629	84.350	132.897	1.00	0.00	H
ATOM	63	HG2 ARG	5	63.625	86.350	134.968	1.00	0.00	H
ATOM	64	HG3 ARG	5	64.079	84.650	135.233	1.00	0.00	H
ATOM	65	HD2 ARG	5	61.701	85.689	133.597	1.00	0.00	H
ATOM	66	HD3 ARG	5	61.633	84.741	135.101	1.00	0.00	H
ATOM	67	HE ARG	5	62.790	82.903	133.811	1.00	0.00	H
ATOM	68	HH11 ARG	5	60.584	85.087	132.122	1.00	0.00	H
ATOM	69	HH12 ARG	5	60.502	84.023	130.736	1.00	0.00	H
ATOM	70	HH21 ARG	5	62.736	81.733	131.961	1.00	0.00	H
ATOM	71	HH22 ARG	5	61.666	82.192	130.655	1.00	0.00	H
ATOM	72	N LYS	6	67.029	85.004	131.522	1.00	0.00	N
ATOM	73	CA LYS	6	67.881	84.047	130.797	1.00	0.00	C
ATOM	74	C LYS	6	69.359	84.453	130.734	1.00	0.00	C
ATOM	75	O LYS	6	70.186	83.625	130.357	1.00	0.00	O
ATOM	76	CB LYS	6	67.375	83.860	129.356	1.00	0.00	C
ATOM	77	CG LYS	6	65.918	83.391	129.283	1.00	0.00	C

ATOM	78	CD	LYS	6	65.552	82.986	127.847	1.00	0.00	C
ATOM	79	CE	LYS	6	64.070	82.574	127.803	1.00	0.00	C
ATOM	80	NZ	LYS	6	63.640	82.152	126.436	1.00	0.00	N1+
ATOM	81	H	LYS	6	66.483	85.655	130.977	1.00	0.00	H
ATOM	82	HA	LYS	6	67.816	83.119	131.365	1.00	0.00	H
ATOM	83	HB2	LYS	6	67.459	84.813	128.833	1.00	0.00	H
ATOM	84	HB3	LYS	6	68.003	83.118	128.862	1.00	0.00	H
ATOM	85	HG2	LYS	6	65.784	82.533	129.942	1.00	0.00	H
ATOM	86	HG3	LYS	6	65.264	84.202	129.604	1.00	0.00	H
ATOM	87	HD2	LYS	6	66.174	82.147	127.535	1.00	0.00	H
ATOM	88	HD3	LYS	6	65.717	83.830	127.177	1.00	0.00	H
ATOM	89	HE2	LYS	6	63.461	83.422	128.116	1.00	0.00	H
ATOM	90	HE3	LYS	6	63.917	81.743	128.491	1.00	0.00	H
ATOM	91	HZ1	LYS	6	63.778	82.915	125.789	1.00	0.00	H
ATOM	92	HZ2	LYS	6	64.189	81.357	126.141	1.00	0.00	H

ATOM	93	HZ3 LYS	6	62.663	81.898	126.454	1.00	0.00	H
ATOM	94	N THR	7	69.680	85.721	131.005	1.00	0.00	N
ATOM	95	CA THR	7	70.969	86.319	130.629	1.00	0.00	C
ATOM	96	C THR	7	71.782	86.753	131.844	1.00	0.00	C
ATOM	97	O THR	7	72.992	86.505	131.890	1.00	0.00	O
ATOM	98	CB THR	7	70.793	87.489	129.636	1.00	0.00	C
ATOM	99	OG1 THR	7	70.052	88.549	130.201	1.00	0.00	O
ATOM	100	CG2 THR	7	70.067	87.081	128.352	1.00	0.00	C
ATOM	101	H THR	7	69.006	86.295	131.491	1.00	0.00	H
ATOM	102	HA THR	7	71.534	85.535	130.124	1.00	0.00	H
ATOM	103	HB THR	7	71.810	87.803	129.401	1.00	0.00	H
ATOM	104	HG21 THR	7	70.599	86.255	127.881	1.00	0.00	H
ATOM	105	HG22 THR	7	69.051	86.769	128.593	1.00	0.00	H
ATOM	106	HG23 THR	7	70.034	87.929	127.668	1.00	0.00	H
ATOM	107	HG1 THR	7	69.170	88.220	130.387	1.00	0.00	H
ATOM	108	N ASN	8	71.118	87.267	132.883	1.00	0.00	N

ATOM	109	CA	ASN	8	71.764	87.636	134.135	1.00	0.00	C
ATOM	110	C	ASN	8	72.398	86.402	134.830	1.00	0.00	C
ATOM	111	O	ASN	8	71.713	85.393	135.003	1.00	0.00	O
ATOM	112	CB	ASN	8	70.736	88.339	135.028	1.00	0.00	C
ATOM	113	CG	ASN	8	71.352	88.755	136.349	1.00	0.00	C
ATOM	114	OD1	ASN	8	71.543	87.955	137.257	1.00	0.00	O
ATOM	115	ND2	ASN	8	71.720	90.011	136.475	1.00	0.00	N
ATOM	116	H	ASN	8	70.121	87.406	132.796	1.00	0.00	H
ATOM	117	HA	ASN	8	72.586	88.323	133.936	1.00	0.00	H
ATOM	118	HB2	ASN	8	69.907	87.658	135.221	1.00	0.00	H
ATOM	119	HB3	ASN	8	70.365	89.226	134.514	1.00	0.00	H
ATOM	120	HD21	ASN	8	71.558	90.663	135.721	1.00	0.00	H
ATOM	121	HD22	ASN	8	72.165	90.324	137.326	1.00	0.00	H
ATOM	122	N	PRO	9	73.667	86.472	135.290	1.00	0.00	N
ATOM	123	CA	PRO	9	74.380	85.324	135.870	1.00	0.00	C

ATOM	124	C	PRO	9	73.661	84.622	137.036	1.00	0.00	C
ATOM	125	O	PRO	9	73.673	83.394	137.088	1.00	0.00	O
ATOM	126	CB	PRO	9	75.732	85.867	136.307	1.00	0.00	C
ATOM	127	CG	PRO	9	75.995	86.987	135.308	1.00	0.00	C
ATOM	128	CD	PRO	9	74.604	87.576	135.097	1.00	0.00	C
ATOM	129	HA	PRO	9	74.453	84.537	135.119	1.00	0.00	H
ATOM	130	HB2	PRO	9	75.688	86.254	137.325	1.00	0.00	H
ATOM	131	HB3	PRO	9	76.502	85.098	136.244	1.00	0.00	H
ATOM	132	HG2	PRO	9	76.402	86.596	134.376	1.00	0.00	H
ATOM	133	HG3	PRO	9	76.679	87.729	135.720	1.00	0.00	H
ATOM	134	HD2	PRO	9	74.512	87.979	134.088	1.00	0.00	H
ATOM	135	HD3	PRO	9	74.413	88.366	135.823	1.00	0.00	H
ATOM	136	N	LEU	10	73.020	85.374	137.939	1.00	0.00	N
ATOM	137	CA	LEU	10	72.253	84.801	139.049	1.00	0.00	C
ATOM	138	C	LEU	10	70.895	84.278	138.572	1.00	0.00	C
ATOM	139	O	LEU	10	70.504	83.165	138.928	1.00	0.00	O

ATOM	140	CB	LEU	10	72.062	85.855	140.163	1.00	0.00	C
ATOM	141	CG	LEU	10	73.103	85.778	141.302	1.00	0.00	C
ATOM	142	CD1	LEU	10	72.883	86.940	142.278	1.00	0.00	C
ATOM	143	CD2	LEU	10	72.983	84.472	142.107	1.00	0.00	C
ATOM	144	H	LEU	10	73.067	86.379	137.852	1.00	0.00	H
ATOM	145	HA	LEU	10	72.815	83.957	139.450	1.00	0.00	H
ATOM	146	HB2	LEU	10	72.125	86.844	139.710	1.00	0.00	H
ATOM	147	HB3	LEU	10	71.072	85.716	140.597	1.00	0.00	H
ATOM	148	HG	LEU	10	74.088	85.823	140.837	1.00	0.00	H
ATOM	149	HD11	LEU	10	72.967	87.885	141.742	1.00	0.00	H
ATOM	150	HD12	LEU	10	71.890	86.860	142.721	1.00	0.00	H
ATOM	151	HD13	LEU	10	73.636	86.901	143.065	1.00	0.00	H
ATOM	152	HD21	LEU	10	71.999	84.422	142.574	1.00	0.00	H
ATOM	153	HD22	LEU	10	73.112	83.620	141.439	1.00	0.00	H
ATOM	154	HD23	LEU	10	73.753	84.449	142.878	1.00	0.00	H

ATOM	155	N	MET	11	70.177	85.055	137.750	1.00	0.00	N
ATOM	156	CA	MET	11	68.835	84.662	137.308	1.00	0.00	C
ATOM	157	C	MET	11	68.841	83.442	136.380	1.00	0.00	C
ATOM	158	O	MET	11	67.904	82.656	136.474	1.00	0.00	O
ATOM	159	CB	MET	11	68.074	85.812	136.645	1.00	0.00	C
ATOM	160	CG	MET	11	67.999	87.057	137.538	1.00	0.00	C
ATOM	161	SD	MET	11	66.855	88.332	136.935	1.00	0.00	S
ATOM	162	CE	MET	11	65.293	87.584	137.525	1.00	0.00	C
ATOM	163	H	MET	11	70.568	85.929	137.428	1.00	0.00	H
ATOM	164	HA	MET	11	68.312	84.384	138.223	1.00	0.00	H
ATOM	165	HB2	MET	11	67.060	85.479	136.424	1.00	0.00	H
ATOM	166	HB3	MET	11	68.580	86.077	135.717	1.00	0.00	H
ATOM	167	HG2	MET	11	68.996	87.493	137.602	1.00	0.00	H
ATOM	168	HG3	MET	11	67.674	86.747	138.531	1.00	0.00	H
ATOM	169	HE1	MET	11	65.165	86.603	137.068	1.00	0.00	H
ATOM	170	HE2	MET	11	65.328	87.478	138.609	1.00	0.00	H

ATOM	171	HE3 MET	11	64.456	88.226	137.249	1.00	0.00	H
ATOM	172	N LYS	12	69.927	83.199	135.627	1.00	0.00	N
ATOM	173	CA LYS	12	70.160	81.949	134.876	1.00	0.00	C
ATOM	174	C LYS	12	69.875	80.712	135.718	1.00	0.00	C
ATOM	175	O LYS	12	69.008	79.917	135.374	1.00	0.00	O
ATOM	176	CB LYS	12	71.614	81.884	134.377	1.00	0.00	C
ATOM	177	CG LYS	12	71.870	82.626	133.057	1.00	0.00	C
ATOM	178	CD LYS	12	73.379	82.630	132.780	1.00	0.00	C
ATOM	179	CE LYS	12	73.700	83.441	131.515	1.00	0.00	C
ATOM	180	NZ LYS	12	75.141	83.768	131.419	1.00	0.00	N1+
ATOM	181	H LYS	12	70.632	83.920	135.571	1.00	0.00	H
ATOM	182	HA LYS	12	69.472	81.958	134.031	1.00	0.00	H
ATOM	183	HB2 LYS	12	72.256	82.320	135.142	1.00	0.00	H
ATOM	184	HB3 LYS	12	71.878	80.836	134.235	1.00	0.00	H
ATOM	185	HG2 LYS	12	71.349	82.119	132.244	1.00	0.00	H

ATOM	186	HG3	LYS	12	71.509	83.651	133.137	1.00	0.00	H
ATOM	187	HD2	LYS	12	73.720	81.604	132.642	1.00	0.00	H
ATOM	188	HD3	LYS	12	73.897	83.074	133.630	1.00	0.00	H
ATOM	189	HE2	LYS	12	73.129	84.369	131.537	1.00	0.00	H
ATOM	190	HE3	LYS	12	73.412	82.858	130.640	1.00	0.00	H
ATOM	191	HZ1	LYS	12	75.418	84.309	132.226	1.00	0.00	H
ATOM	192	HZ2	LYS	12	75.679	82.914	131.386	1.00	0.00	H
ATOM	193	HZ3	LYS	12	75.309	84.305	130.580	1.00	0.00	H
ATOM	194	N	LEU	13	70.532	80.616	136.878	1.00	0.00	N
ATOM	195	CA	LEU	13	70.438	79.466	137.781	1.00	0.00	C
ATOM	196	C	LEU	13	68.997	79.261	138.262	1.00	0.00	C
ATOM	197	O	LEU	13	68.441	78.180	138.098	1.00	0.00	O
ATOM	198	CB	LEU	13	71.413	79.670	138.961	1.00	0.00	C
ATOM	199	CG	LEU	13	72.880	79.940	138.564	1.00	0.00	C
ATOM	200	CD1	LEU	13	73.707	80.224	139.819	1.00	0.00	C
ATOM	201	CD2	LEU	13	73.503	78.762	137.815	1.00	0.00	C

ATOM	202	H	LEU	13	71.130	81.383	137.149	1.00	0.00	H
ATOM	203	HA	LEU	13	70.721	78.559	137.247	1.00	0.00	H
ATOM	204	HB2	LEU	13	71.061	80.519	139.546	1.00	0.00	H
ATOM	205	HB3	LEU	13	71.390	78.770	139.576	1.00	0.00	H
ATOM	206	HG	LEU	13	72.882	80.802	137.897	1.00	0.00	H
ATOM	207	HD11	LEU	13	73.284	81.079	140.347	1.00	0.00	H
ATOM	208	HD12	LEU	13	73.691	79.350	140.470	1.00	0.00	H
ATOM	209	HD13	LEU	13	74.735	80.446	139.534	1.00	0.00	H
ATOM	210	HD21	LEU	13	73.513	77.885	138.462	1.00	0.00	H
ATOM	211	HD22	LEU	13	72.916	78.548	136.921	1.00	0.00	H
ATOM	212	HD23	LEU	13	74.524	79.013	137.528	1.00	0.00	H
ATOM	213	N	ILE	14	68.337	80.334	138.705	1.00	0.00	N
ATOM	214	CA	ILE	14	66.926	80.295	139.106	1.00	0.00	C
ATOM	215	C	ILE	14	66.025	79.888	137.926	1.00	0.00	C
ATOM	216	O	ILE	14	65.153	79.030	138.067	1.00	0.00	O

ATOM	217	CB	ILE	14	66.504	81.658	139.708	1.00	0.00	C
ATOM	218	CG1	ILE	14	67.455	82.145	140.836	1.00	0.00	C
ATOM	219	CG2	ILE	14	65.052	81.632	140.219	1.00	0.00	C
ATOM	220	CD1	ILE	14	67.662	81.165	142.002	1.00	0.00	C
ATOM	221	H	ILE	14	68.832	81.212	138.767	1.00	0.00	H
ATOM	222	HA	ILE	14	66.803	79.534	139.877	1.00	0.00	H
ATOM	223	HB	ILE	14	66.576	82.373	138.888	1.00	0.00	H
ATOM	224	HG12	ILE	14	68.429	82.345	140.390	1.00	0.00	H
ATOM	225	HG13	ILE	14	67.045	83.069	141.244	1.00	0.00	H
ATOM	226	HG21	ILE	14	64.387	81.333	139.409	1.00	0.00	H
ATOM	227	HG22	ILE	14	64.968	80.920	141.040	1.00	0.00	H
ATOM	228	HG23	ILE	14	64.773	82.625	140.570	1.00	0.00	H
ATOM	229	HD11	ILE	14	66.706	80.972	142.488	1.00	0.00	H
ATOM	230	HD12	ILE	14	68.072	80.229	141.622	1.00	0.00	H
ATOM	231	HD13	ILE	14	68.355	81.599	142.723	1.00	0.00	H
ATOM	232	N	ASN	15	66.287	80.420	136.729	1.00	0.00	N

ATOM	233	CA	ASN	15	65.526	80.146	135.517	1.00	0.00	C
ATOM	234	C	ASN	15	65.637	78.679	135.088	1.00	0.00	C
ATOM	235	O	ASN	15	64.628	78.041	134.787	1.00	0.00	O
ATOM	236	CB	ASN	15	66.006	81.087	134.394	1.00	0.00	C
ATOM	237	CG	ASN	15	65.066	81.024	133.216	1.00	0.00	C
ATOM	238	OD1	ASN	15	63.913	81.390	133.351	1.00	0.00	O
ATOM	239	ND2	ASN	15	65.499	80.628	132.040	1.00	0.00	N
ATOM	240	H	ASN	15	67.068	81.057	136.659	1.00	0.00	H
ATOM	241	HA	ASN	15	64.472	80.331	135.722	1.00	0.00	H
ATOM	242	HB2	ASN	15	67.003	80.785	134.074	1.00	0.00	H
ATOM	243	HB3	ASN	15	66.040	82.109	134.772	1.00	0.00	H
ATOM	244	HD21	ASN	15	66.456	80.325	131.930	1.00	0.00	H
ATOM	245	HD22	ASN	15	64.875	80.627	131.246	1.00	0.00	H
ATOM	246	N	HIS	16	66.858	78.145	135.073	1.00	0.00	N
ATOM	247	CA	HIS	16	67.188	76.789	134.631	1.00	0.00	C

ATOM	248	C	HIS	16	66.793	75.731	135.661	1.00	0.00	C
ATOM	249	O	HIS	16	66.495	74.604	135.270	1.00	0.00	O
ATOM	250	CB	HIS	16	68.692	76.725	134.305	1.00	0.00	C
ATOM	251	CG	HIS	16	69.211	77.713	133.276	1.00	0.00	C
ATOM	252	ND1	HIS	16	70.519	78.209	133.248	1.00	0.00	N
ATOM	253	CD2	HIS	16	68.523	78.256	132.224	1.00	0.00	C
ATOM	254	CE1	HIS	16	70.587	79.032	132.196	1.00	0.00	C
ATOM	255	NE2	HIS	16	69.404	79.081	131.557	1.00	0.00	N
ATOM	256	H	HIS	16	67.620	78.725	135.394	1.00	0.00	H
ATOM	257	HA	HIS	16	66.610	76.563	133.735	1.00	0.00	H
ATOM	258	HB2	HIS	16	68.907	75.722	133.937	1.00	0.00	H
ATOM	259	HB3	HIS	16	69.238	76.897	135.232	1.00	0.00	H
ATOM	260	HD2	HIS	16	67.490	78.073	131.966	1.00	0.00	H
ATOM	261	HE2	HIS	16	69.197	79.627	130.733	1.00	0.00	H
ATOM	262	HE1	HIS	16	71.469	79.581	131.900	1.00	0.00	H
ATOM	263	N	SER	17	66.715	76.085	136.949	1.00	0.00	N

ATOM	264	CA	SER	17	66.310	75.170	138.021	1.00	0.00	C
ATOM	265	C	SER	17	64.813	75.187	138.363	1.00	0.00	C
ATOM	266	O	SER	17	64.320	74.175	138.864	1.00	0.00	O
ATOM	267	CB	SER	17	67.125	75.441	139.288	1.00	0.00	C
ATOM	268	OG	SER	17	68.495	75.157	139.061	1.00	0.00	O
ATOM	269	H	SER	17	66.948	77.036	137.197	1.00	0.00	H
ATOM	270	HA	SER	17	66.514	74.174	137.629	1.00	0.00	H
ATOM	271	HB2	SER	17	66.756	74.809	140.095	1.00	0.00	H
ATOM	272	HB3	SER	17	67.016	76.489	139.568	1.00	0.00	H
ATOM	273	HG	SER	17	68.563	74.231	138.816	1.00	0.00	H
ATOM	274	N	PHE	18	64.085	76.285	138.090	1.00	0.00	N
ATOM	275	CA	PHE	18	62.731	76.486	138.650	1.00	0.00	C
ATOM	276	C	PHE	18	61.722	77.151	137.683	1.00	0.00	C
ATOM	277	O	PHE	18	60.544	77.200	138.030	1.00	0.00	O
ATOM	278	CB	PHE	18	62.838	77.339	139.925	1.00	0.00	C

ATOM	279	CG	PHE	18	63.857	76.872	140.940	1.00	0.00	C
ATOM	280	CD1	PHE	18	63.732	75.620	141.575	1.00	0.00	C
ATOM	281	CD2	PHE	18	64.976	77.681	141.227	1.00	0.00	C
ATOM	282	CE1	PHE	18	64.732	75.163	142.446	1.00	0.00	C
ATOM	283	CE2	PHE	18	65.974	77.238	142.114	1.00	0.00	C
ATOM	284	CZ	PHE	18	65.855	75.974	142.729	1.00	0.00	C
ATOM	285	H	PHE	18	64.475	76.993	137.485	1.00	0.00	H
ATOM	286	HA	PHE	18	62.340	75.489	138.855	1.00	0.00	H
ATOM	287	HB2	PHE	18	63.101	78.354	139.628	1.00	0.00	H
ATOM	288	HB3	PHE	18	61.861	77.344	140.408	1.00	0.00	H
ATOM	289	HD1	PHE	18	62.861	75.009	141.390	1.00	0.00	H
ATOM	290	HD2	PHE	18	65.068	78.651	140.761	1.00	0.00	H
ATOM	291	HE1	PHE	18	64.644	74.188	142.902	1.00	0.00	H
ATOM	292	HE2	PHE	18	66.829	77.864	142.324	1.00	0.00	H
ATOM	293	HZ	PHE	18	66.617	75.628	143.412	1.00	0.00	H
ATOM	294	N	ILE	19	62.124	77.654	136.506	1.00	0.00	N

ATOM	295	CA	ILE	19	61.222	78.423	135.619	1.00	0.00	C
ATOM	296	C	ILE	19	61.088	77.753	134.243	1.00	0.00	C
ATOM	297	O	ILE	19	60.089	77.094	133.952	1.00	0.00	O
ATOM	298	CB	ILE	19	61.652	79.915	135.535	1.00	0.00	C
ATOM	299	CG1	ILE	19	61.992	80.579	136.896	1.00	0.00	C
ATOM	300	CG2	ILE	19	60.620	80.771	134.779	1.00	0.00	C
ATOM	301	CD1	ILE	19	60.822	80.746	137.880	1.00	0.00	C
ATOM	302	H	ILE	19	63.079	77.502	136.214	1.00	0.00	H
ATOM	303	HA	ILE	19	60.224	78.418	136.057	1.00	0.00	H
ATOM	304	HB	ILE	19	62.585	79.884	134.972	1.00	0.00	H
ATOM	305	HG12	ILE	19	62.752	79.968	137.383	1.00	0.00	H
ATOM	306	HG13	ILE	19	62.398	81.569	136.691	1.00	0.00	H
ATOM	307	HG21	ILE	19	60.435	80.335	133.797	1.00	0.00	H
ATOM	308	HG22	ILE	19	59.689	80.801	135.344	1.00	0.00	H
ATOM	309	HG23	ILE	19	61.005	81.784	134.660	1.00	0.00	H

ATOM	310	HD11	ILE	19	60.059	81.383	137.432	1.00	0.00	H
ATOM	311	HD12	ILE	19	60.394	79.769	138.105	1.00	0.00	H
ATOM	312	HD13	ILE	19	61.184	81.205	138.800	1.00	0.00	H
ATOM	313	N	ASP	20	62.137	77.834	133.425	1.00	0.00	N
ATOM	314	CA	ASP	20	62.165	77.248	132.083	1.00	0.00	C
ATOM	315	C	ASP	20	62.461	75.732	132.045	1.00	0.00	C
ATOM	316	O	ASP	20	62.461	75.123	130.975	1.00	0.00	O
ATOM	317	CB	ASP	20	63.088	78.055	131.145	1.00	0.00	C
ATOM	318	CG	ASP	20	62.579	79.446	130.733	1.00	0.00	C
ATOM	319	OD1	ASP	20	63.451	80.237	130.247	1.00	0.00	O
ATOM	320	OD2	ASP	20	61.382	79.784	130.920	1.00	0.00	O1-
ATOM	321	H	ASP	20	62.958	78.326	133.748	1.00	0.00	H
ATOM	322	HA	ASP	20	61.145	77.325	131.707	1.00	0.00	H
ATOM	323	HB2	ASP	20	63.234	77.471	130.237	1.00	0.00	H
ATOM	324	HB3	ASP	20	64.045	78.186	131.650	1.00	0.00	H
ATOM	325	N	LEU	21	62.725	75.125	133.214	1.00	0.00	N

ATOM	326	CA	LEU	21	63.149	73.726	133.372	1.00	0.00	C
ATOM	327	C	LEU	21	62.191	72.747	132.643	1.00	0.00	C
ATOM	328	O	LEU	21	61.016	72.680	133.012	1.00	0.00	O
ATOM	329	CB	LEU	21	63.266	73.392	134.878	1.00	0.00	C
ATOM	330	CG	LEU	21	63.576	71.909	135.192	1.00	0.00	C
ATOM	331	CD1	LEU	21	64.952	71.456	134.700	1.00	0.00	C
ATOM	332	CD2	LEU	21	63.523	71.657	136.697	1.00	0.00	C
ATOM	333	H	LEU	21	62.624	75.676	134.055	1.00	0.00	H
ATOM	334	HA	LEU	21	64.126	73.603	132.906	1.00	0.00	H
ATOM	335	HB2	LEU	21	64.065	74.002	135.299	1.00	0.00	H
ATOM	336	HB3	LEU	21	62.321	73.650	135.357	1.00	0.00	H
ATOM	337	HG	LEU	21	62.813	71.338	134.663	1.00	0.00	H
ATOM	338	HD11	LEU	21	65.031	71.635	133.628	1.00	0.00	H
ATOM	339	HD12	LEU	21	65.727	72.018	135.221	1.00	0.00	H
ATOM	340	HD13	LEU	21	65.078	70.392	134.901	1.00	0.00	H

ATOM	341	HD21	LEU	21	64.298	72.243	137.191	1.00	0.00	H
ATOM	342	HD22	LEU	21	62.546	71.950	137.080	1.00	0.00	H
ATOM	343	HD23	LEU	21	63.688	70.598	136.894	1.00	0.00	H
ATOM	344	N	PRO	22	62.682	71.933	131.683	1.00	0.00	N
ATOM	345	CA	PRO	22	61.871	70.910	131.030	1.00	0.00	C
ATOM	346	C	PRO	22	61.545	69.748	131.983	1.00	0.00	C
ATOM	347	O	PRO	22	62.377	68.882	132.276	1.00	0.00	O
ATOM	348	CB	PRO	22	62.650	70.477	129.777	1.00	0.00	C
ATOM	349	CG	PRO	22	63.586	71.655	129.518	1.00	0.00	C
ATOM	350	CD	PRO	22	63.914	72.122	130.932	1.00	0.00	C
ATOM	351	HA	PRO	22	60.894	71.297	130.740	1.00	0.00	H
ATOM	352	HB2	PRO	22	63.215	69.564	129.965	1.00	0.00	H
ATOM	353	HB3	PRO	22	61.977	70.321	128.934	1.00	0.00	H
ATOM	354	HG2	PRO	22	63.087	72.439	128.949	1.00	0.00	H
ATOM	355	HG3	PRO	22	64.484	71.337	128.988	1.00	0.00	H
ATOM	356	HD2	PRO	22	64.206	73.172	130.931	1.00	0.00	H

ATOM	357	HD3 PRO	22	64.718	71.522	131.357	1.00	0.00	H
ATOM	358	N THR	23	60.287	69.669	132.402	1.00	0.00	N
ATOM	359	CA THR	23	59.773	68.667	133.351	1.00	0.00	C
ATOM	360	C THR	23	58.822	67.677	132.684	1.00	0.00	C
ATOM	361	O THR	23	58.137	68.060	131.739	1.00	0.00	O
ATOM	362	CB THR	23	59.062	69.317	134.542	1.00	0.00	C
ATOM	363	OG1 THR	23	57.992	70.127	134.114	1.00	0.00	O
ATOM	364	CG2 THR	23	59.987	70.190	135.374	1.00	0.00	C
ATOM	365	H THR	23	59.632	70.349	132.042	1.00	0.00	H
ATOM	366	HA THR	23	60.648	68.126	133.711	1.00	0.00	H
ATOM	367	HB THR	23	58.704	68.488	135.152	1.00	0.00	H
ATOM	368	HG21 THR	23	60.835	69.597	135.718	1.00	0.00	H
ATOM	369	HG22 THR	23	60.347	71.020	134.766	1.00	0.00	H
ATOM	370	HG23 THR	23	59.443	70.579	136.235	1.00	0.00	H
ATOM	371	HG1 THR	23	58.360	70.838	133.584	1.00	0.00	H

ATOM	372	N	PRO	24	58.750	66.409	133.124	1.00	0.00	N
ATOM	373	CA	PRO	24	57.738	65.485	132.617	1.00	0.00	C
ATOM	374	C	PRO	24	56.331	66.023	132.919	1.00	0.00	C
ATOM	375	O	PRO	24	56.088	66.577	133.995	1.00	0.00	O
ATOM	376	CB	PRO	24	57.984	64.144	133.319	1.00	0.00	C
ATOM	377	CG	PRO	24	59.376	64.293	133.938	1.00	0.00	C
ATOM	378	CD	PRO	24	59.512	65.785	134.191	1.00	0.00	C
ATOM	379	HA	PRO	24	57.806	65.368	131.535	1.00	0.00	H
ATOM	380	HB2	PRO	24	57.235	63.969	134.091	1.00	0.00	H
ATOM	381	HB3	PRO	24	57.966	63.323	132.602	1.00	0.00	H
ATOM	382	HG2	PRO	24	60.145	63.946	133.248	1.00	0.00	H
ATOM	383	HG3	PRO	24	59.446	63.734	134.871	1.00	0.00	H
ATOM	384	HD2	PRO	24	60.558	66.089	134.146	1.00	0.00	H
ATOM	385	HD3	PRO	24	59.099	66.049	135.164	1.00	0.00	H
ATOM	386	N	SER	25	55.374	65.822	132.013	1.00	0.00	N
ATOM	387	CA	SER	25	53.976	66.237	132.215	1.00	0.00	C

ATOM	388	C	SER	25	53.224	65.470	133.316	1.00	0.00	C
ATOM	389	O	SER	25	52.149	65.887	133.743	1.00	0.00	O
ATOM	390	CB	SER	25	53.225	66.056	130.897	1.00	0.00	C
ATOM	391	OG	SER	25	53.227	64.663	130.622	1.00	0.00	O
ATOM	392	H	SER	25	55.620	65.363	131.147	1.00	0.00	H
ATOM	393	HA	SER	25	54.012	67.276	132.543	1.00	0.00	H
ATOM	394	HB2	SER	25	53.730	66.599	130.098	1.00	0.00	H
ATOM	395	HB3	SER	25	52.202	66.420	130.993	1.00	0.00	H
ATOM	396	HG	SER	25	54.142	64.384	130.545	1.00	0.00	H
ATOM	397	N	ASN	26	53.786	64.347	133.781	1.00	0.00	N
ATOM	398	CA	ASN	26	53.092	63.314	134.549	1.00	0.00	C
ATOM	399	C	ASN	26	53.731	62.994	135.916	1.00	0.00	C
ATOM	400	O	ASN	26	53.375	61.981	136.519	1.00	0.00	O
ATOM	401	CB	ASN	26	52.992	62.056	133.663	1.00	0.00	C
ATOM	402	CG	ASN	26	54.345	61.391	133.410	1.00	0.00	C

ATOM	403	OD1 ASN	26	55.361	62.034	133.200	1.00	0.00	O
ATOM	404	ND2 ASN	26	54.390	60.072	133.424	1.00	0.00	N
ATOM	405	H ASN	26	54.766	64.202	133.586	1.00	0.00	H
ATOM	406	HA ASN	26	52.103	63.694	134.805	1.00	0.00	H
ATOM	407	HB2 ASN	26	52.561	62.341	132.703	1.00	0.00	H
ATOM	408	HB3 ASN	26	52.338	61.336	134.155	1.00	0.00	H
ATOM	409	HD21 ASN	26	53.549	59.540	133.598	1.00	0.00	H
ATOM	410	HD22 ASN	26	55.265	59.595	133.261	1.00	0.00	H
ATOM	411	N ILE	27	54.683	63.801	136.408	1.00	0.00	N
ATOM	412	CA ILE	27	55.308	63.525	137.707	1.00	0.00	C
ATOM	413	C ILE	27	54.358	63.810	138.877	1.00	0.00	C
ATOM	414	O ILE	27	53.939	64.947	139.127	1.00	0.00	O
ATOM	415	CB ILE	27	56.701	64.157	137.888	1.00	0.00	C
ATOM	416	CG1 ILE	27	56.820	65.618	137.403	1.00	0.00	C
ATOM	417	CG2 ILE	27	57.719	63.255	137.179	1.00	0.00	C
ATOM	418	CD1 ILE	27	58.092	66.320	137.885	1.00	0.00	C

ATOM	419	H	ILE	27	54.974	64.610	135.877	1.00	0.00	H
ATOM	420	HA	ILE	27	55.501	62.452	137.713	1.00	0.00	H
ATOM	421	HB	ILE	27	56.897	64.219	138.958	1.00	0.00	H
ATOM	422	HG12	ILE	27	56.816	65.621	136.313	1.00	0.00	H
ATOM	423	HG13	ILE	27	55.958	66.175	137.771	1.00	0.00	H
ATOM	424	HG21	ILE	27	57.667	62.250	137.597	1.00	0.00	H
ATOM	425	HG22	ILE	27	57.491	63.217	136.114	1.00	0.00	H
ATOM	426	HG23	ILE	27	58.722	63.657	137.322	1.00	0.00	H
ATOM	427	HD11	ILE	27	58.102	66.345	138.975	1.00	0.00	H
ATOM	428	HD12	ILE	27	58.966	65.776	137.526	1.00	0.00	H
ATOM	429	HD13	ILE	27	58.114	67.339	137.498	1.00	0.00	H
ATOM	430	N	SER	28	54.043	62.752	139.623	1.00	0.00	N
ATOM	431	CA	SER	28	52.970	62.716	140.615	1.00	0.00	C
ATOM	432	C	SER	28	53.311	63.443	141.948	1.00	0.00	C
ATOM	433	O	SER	28	54.386	64.042	142.124	1.00	0.00	O

ATOM	434	CB	SER	28	52.534	61.230	140.743	1.00	0.00	C
ATOM	435	OG	SER	28	53.622	60.337	140.904	1.00	0.00	O
ATOM	436	H	SER	28	54.587	61.911	139.493	1.00	0.00	H
ATOM	437	HA	SER	28	52.115	63.306	140.284	1.00	0.00	H
ATOM	438	HB2	SER	28	51.988	60.951	139.842	1.00	0.00	H
ATOM	439	HB3	SER	28	51.878	61.136	141.609	1.00	0.00	H
ATOM	440	HG	SER	28	54.190	60.431	140.136	1.00	0.00	H
ATOM	441	N	ALA	29	52.393	63.437	142.924	1.00	0.00	N
ATOM	442	CA	ALA	29	52.831	63.285	144.325	1.00	0.00	C
ATOM	443	C	ALA	29	53.637	61.974	144.420	1.00	0.00	C
ATOM	444	O	ALA	29	53.400	61.104	143.595	1.00	0.00	O
ATOM	445	CB	ALA	29	51.609	63.298	145.249	1.00	0.00	C
ATOM	446	H	ALA	29	51.412	63.535	142.703	1.00	0.00	H
ATOM	447	HA	ALA	29	53.469	64.110	144.643	1.00	0.00	H
ATOM	448	HB1	ALA	29	51.090	64.252	145.152	1.00	0.00	H
ATOM	449	HB2	ALA	29	50.935	62.487	144.972	1.00	0.00	H

ATOM	450	HB3 ALA	29	51.933	63.164	146.281	1.00	0.00	H
ATOM	451	N TRP	30	54.584	61.812	145.346	1.00	0.00	N
ATOM	452	CA TRP	30	55.852	61.055	145.137	1.00	0.00	C
ATOM	453	C TRP	30	57.027	61.893	144.614	1.00	0.00	C
ATOM	454	O TRP	30	58.042	61.991	145.303	1.00	0.00	O
ATOM	455	CB TRP	30	55.738	59.696	144.399	1.00	0.00	C
ATOM	456	CG TRP	30	54.766	58.706	144.953	1.00	0.00	C
ATOM	457	CD1 TRP	30	53.639	58.234	144.361	1.00	0.00	C
ATOM	458	CD2 TRP	30	54.748	58.184	146.307	1.00	0.00	C
ATOM	459	NE1 TRP	30	52.949	57.422	145.244	1.00	0.00	N
ATOM	460	CE2 TRP	30	53.561	57.415	146.485	1.00	0.00	C
ATOM	461	CE3 TRP	30	55.615	58.336	147.411	1.00	0.00	C
ATOM	462	CZ2 TRP	30	53.242	56.841	147.724	1.00	0.00	C
ATOM	463	CZ3 TRP	30	55.300	57.786	148.656	1.00	0.00	C
ATOM	464	CH2 TRP	30	54.112	57.040	148.818	1.00	0.00	C

ATOM	465	H	TRP	30	54.431	62.231	146.252	1.00	0.00	H
ATOM	466	HA	TRP	30	56.093	60.786	146.165	1.00	0.00	H
ATOM	467	HB2	TRP	30	55.446	59.904	143.370	1.00	0.00	H
ATOM	468	HB3	TRP	30	56.724	59.231	144.410	1.00	0.00	H
ATOM	469	HD1	TRP	30	53.327	58.459	143.352	1.00	0.00	H
ATOM	470	HE1	TRP	30	52.113	56.905	145.014	1.00	0.00	H
ATOM	471	HE3	TRP	30	56.537	58.886	147.291	1.00	0.00	H
ATOM	472	HZ2	TRP	30	52.343	56.254	147.840	1.00	0.00	H
ATOM	473	HZ3	TRP	30	55.965	57.931	149.494	1.00	0.00	H
ATOM	474	HH2	TRP	30	53.868	56.620	149.783	1.00	0.00	H
ATOM	475	N	TRP	31	56.845	62.650	143.526	1.00	0.00	N
ATOM	476	CA	TRP	31	57.852	63.613	143.057	1.00	0.00	C
ATOM	477	C	TRP	31	57.916	64.932	143.838	1.00	0.00	C
ATOM	478	O	TRP	31	58.909	65.638	143.767	1.00	0.00	O
ATOM	479	CB	TRP	31	57.742	63.818	141.539	1.00	0.00	C
ATOM	480	CG	TRP	31	58.505	62.860	140.675	1.00	0.00	C

ATOM	481	CD1 TRP	31	59.771	63.051	140.230	1.00	0.00	C
ATOM	482	CD2 TRP	31	58.184	61.469	140.368	1.00	0.00	C
ATOM	483	NE1 TRP	31	60.227	61.905	139.609	1.00	0.00	N
ATOM	484	CE2 TRP	31	59.286	60.904	139.651	1.00	0.00	C
ATOM	485	CE3 TRP	31	57.095	60.620	140.652	1.00	0.00	C
ATOM	486	CZ2 TRP	31	59.288	59.578	139.215	1.00	0.00	C
ATOM	487	CZ3 TRP	31	57.092	59.278	140.226	1.00	0.00	C
ATOM	488	CH2 TRP	31	58.173	58.770	139.479	1.00	0.00	C
ATOM	489	H TRP	31	55.983	62.556	143.007	1.00	0.00	H
ATOM	490	HA TRP	31	58.818	63.156	143.274	1.00	0.00	H
ATOM	491	HB2 TRP	31	56.689	63.739	141.270	1.00	0.00	H
ATOM	492	HB3 TRP	31	58.100	64.823	141.314	1.00	0.00	H
ATOM	493	HD1 TRP	31	60.338	63.963	140.344	1.00	0.00	H
ATOM	494	HE1 TRP	31	61.136	61.814	139.179	1.00	0.00	H
ATOM	495	HE3 TRP	31	56.251	61.005	141.205	1.00	0.00	H

ATOM	496	HZ2 TRP	31	60.138	59.179	138.681	1.00	0.00	H
ATOM	497	HZ3 TRP	31	56.259	58.636	140.473	1.00	0.00	H
ATOM	498	HH2 TRP	31	58.143	57.756	139.109	1.00	0.00	H
ATOM	499	N ASN	32	56.901	65.248	144.653	1.00	0.00	N
ATOM	500	CA ASN	32	56.950	66.415	145.544	1.00	0.00	C
ATOM	501	C ASN	32	58.011	66.278	146.654	1.00	0.00	C
ATOM	502	O ASN	32	58.424	67.285	147.227	1.00	0.00	O
ATOM	503	CB ASN	32	55.573	66.647	146.203	1.00	0.00	C
ATOM	504	CG ASN	32	54.495	67.225	145.302	1.00	0.00	C
ATOM	505	OD1 ASN	32	53.848	68.204	145.609	1.00	0.00	O
ATOM	506	ND2 ASN	32	54.098	66.549	144.243	1.00	0.00	N
ATOM	507	H ASN	32	56.076	64.666	144.655	1.00	0.00	H
ATOM	508	HA ASN	32	57.224	67.264	144.918	1.00	0.00	H
ATOM	509	HB2 ASN	32	55.714	67.333	147.038	1.00	0.00	H
ATOM	510	HB3 ASN	32	55.216	65.688	146.578	1.00	0.00	H
ATOM	511	HD21 ASN	32	53.286	66.853	143.725	1.00	0.00	H

ATOM	512	HD22	ASN	32	54.606	65.727	143.949	1.00	0.00	H
ATOM	513	N	PHE	33	58.388	65.055	147.056	1.00	0.00	N
ATOM	514	CA	PHE	33	59.140	64.871	148.296	1.00	0.00	C
ATOM	515	C	PHE	33	60.531	65.511	148.333	1.00	0.00	C
ATOM	516	O	PHE	33	60.950	65.982	149.399	1.00	0.00	O
ATOM	517	CB	PHE	33	59.061	63.425	148.824	1.00	0.00	C
ATOM	518	CG	PHE	33	57.676	63.054	149.341	1.00	0.00	C
ATOM	519	CD1	PHE	33	57.183	63.587	150.549	1.00	0.00	C
ATOM	520	CD2	PHE	33	56.853	62.214	148.569	1.00	0.00	C
ATOM	521	CE1	PHE	33	55.870	63.288	150.970	1.00	0.00	C
ATOM	522	CE2	PHE	33	55.538	61.922	148.971	1.00	0.00	C
ATOM	523	CZ	PHE	33	55.038	62.450	150.180	1.00	0.00	C
ATOM	524	H	PHE	33	58.149	64.250	146.494	1.00	0.00	H
ATOM	525	HA	PHE	33	58.614	65.476	149.035	1.00	0.00	H
ATOM	526	HB2	PHE	33	59.323	62.745	148.014	1.00	0.00	H

ATOM	527	HB3 PHE	33	59.777	63.313	149.638	1.00	0.00	H
ATOM	528	HD1 PHE	33	57.811	64.225	151.153	1.00	0.00	H
ATOM	529	HD2 PHE	33	57.237	61.787	147.654	1.00	0.00	H
ATOM	530	HE1 PHE	33	55.496	63.698	151.897	1.00	0.00	H
ATOM	531	HE2 PHE	33	54.911	61.294	148.355	1.00	0.00	H
ATOM	532	HZ PHE	33	54.033	62.220	150.502	1.00	0.00	H
ATOM	533	N GLY	34	61.152	65.740	147.174	1.00	0.00	N
ATOM	534	CA GLY	34	62.361	66.540	147.047	1.00	0.00	C
ATOM	535	C GLY	34	62.191	68.024	147.386	1.00	0.00	C
ATOM	536	O GLY	34	63.084	68.583	148.028	1.00	0.00	O
ATOM	537	H GLY	34	60.760	65.334	146.336	1.00	0.00	H
ATOM	538	HA2 GLY	34	63.114	66.124	147.716	1.00	0.00	H
ATOM	539	HA3 GLY	34	62.709	66.466	146.017	1.00	0.00	H
ATOM	540	N SER	35	61.069	68.663	147.015	1.00	0.00	N
ATOM	541	CA SER	35	60.794	70.053	147.418	1.00	0.00	C
ATOM	542	C SER	35	60.478	70.123	148.909	1.00	0.00	C

ATOM	543	O	SER	35	61.032	70.974	149.608	1.00	0.00	O
ATOM	544	CB	SER	35	59.656	70.673	146.598	1.00	0.00	C
ATOM	545	OG	SER	35	58.383	70.139	146.900	1.00	0.00	O
ATOM	546	H	SER	35	60.394	68.176	146.443	1.00	0.00	H
ATOM	547	HA	SER	35	61.694	70.635	147.219	1.00	0.00	H
ATOM	548	HB2	SER	35	59.860	70.501	145.541	1.00	0.00	H
ATOM	549	HB3	SER	35	59.635	71.745	146.794	1.00	0.00	H
ATOM	550	HG	SER	35	58.415	69.196	146.724	1.00	0.00	H
ATOM	551	N	LEU	36	59.745	69.131	149.433	1.00	0.00	N
ATOM	552	CA	LEU	36	59.453	69.003	150.862	1.00	0.00	C
ATOM	553	C	LEU	36	60.711	68.762	151.704	1.00	0.00	C
ATOM	554	O	LEU	36	60.866	69.435	152.714	1.00	0.00	O
ATOM	555	CB	LEU	36	58.391	67.912	151.104	1.00	0.00	C
ATOM	556	CG	LEU	36	57.058	68.160	150.371	1.00	0.00	C
ATOM	557	CD1	LEU	36	56.005	67.144	150.829	1.00	0.00	C

ATOM	558	CD2	LEU	36	56.507	69.559	150.636	1.00	0.00	C
ATOM	559	H	LEU	36	59.373	68.432	148.806	1.00	0.00	H
ATOM	560	HA	LEU	36	59.046	69.958	151.193	1.00	0.00	H
ATOM	561	HB2	LEU	36	58.796	66.958	150.765	1.00	0.00	H
ATOM	562	HB3	LEU	36	58.189	67.861	152.174	1.00	0.00	H
ATOM	563	HG	LEU	36	57.264	68.056	149.306	1.00	0.00	H
ATOM	564	HD11	LEU	36	56.368	66.134	150.640	1.00	0.00	H
ATOM	565	HD12	LEU	36	55.819	67.270	151.896	1.00	0.00	H
ATOM	566	HD13	LEU	36	55.079	67.306	150.277	1.00	0.00	H
ATOM	567	HD21	LEU	36	56.299	69.672	151.700	1.00	0.00	H
ATOM	568	HD22	LEU	36	57.242	70.303	150.329	1.00	0.00	H
ATOM	569	HD23	LEU	36	55.587	69.701	150.069	1.00	0.00	H
ATOM	570	N	LEU	37	61.674	67.957	151.245	1.00	0.00	N
ATOM	571	CA	LEU	37	62.972	67.790	151.916	1.00	0.00	C
ATOM	572	C	LEU	37	63.802	69.082	151.917	1.00	0.00	C
ATOM	573	O	LEU	37	64.414	69.411	152.937	1.00	0.00	O

ATOM	574	CB	LEU	37	63.756	66.657	151.232	1.00	0.00	C
ATOM	575	CG	LEU	37	63.271	65.251	151.625	1.00	0.00	C
ATOM	576	CD1	LEU	37	63.963	64.212	150.743	1.00	0.00	C
ATOM	577	CD2	LEU	37	63.623	64.943	153.086	1.00	0.00	C
ATOM	578	H	LEU	37	61.502	67.438	150.396	1.00	0.00	H
ATOM	579	HA	LEU	37	62.778	67.537	152.958	1.00	0.00	H
ATOM	580	HB2	LEU	37	63.652	66.769	150.153	1.00	0.00	H
ATOM	581	HB3	LEU	37	64.807	66.749	151.508	1.00	0.00	H
ATOM	582	HG	LEU	37	62.189	65.215	151.495	1.00	0.00	H
ATOM	583	HD11	LEU	37	63.730	64.410	149.697	1.00	0.00	H
ATOM	584	HD12	LEU	37	65.041	64.269	150.892	1.00	0.00	H
ATOM	585	HD13	LEU	37	63.612	63.216	151.011	1.00	0.00	H
ATOM	586	HD21	LEU	37	64.705	64.980	153.215	1.00	0.00	H
ATOM	587	HD22	LEU	37	63.155	65.682	153.736	1.00	0.00	H
ATOM	588	HD23	LEU	37	63.260	63.949	153.345	1.00	0.00	H

ATOM	589	N	GLY	38	63.746	69.863	150.834	1.00	0.00	N
ATOM	590	CA	GLY	38	64.282	71.224	150.796	1.00	0.00	C
ATOM	591	C	GLY	38	63.629	72.132	151.845	1.00	0.00	C
ATOM	592	O	GLY	38	64.336	72.765	152.633	1.00	0.00	O
ATOM	593	H	GLY	38	63.312	69.495	150.000	1.00	0.00	H
ATOM	594	HA2	GLY	38	65.355	71.184	150.985	1.00	0.00	H
ATOM	595	HA3	GLY	38	64.102	71.645	149.807	1.00	0.00	H
ATOM	596	N	ALA	39	62.296	72.111	151.951	1.00	0.00	N
ATOM	597	CA	ALA	39	61.541	72.862	152.952	1.00	0.00	C
ATOM	598	C	ALA	39	61.821	72.413	154.398	1.00	0.00	C
ATOM	599	O	ALA	39	62.055	73.263	155.259	1.00	0.00	O
ATOM	600	CB	ALA	39	60.051	72.768	152.618	1.00	0.00	C
ATOM	601	H	ALA	39	61.778	71.540	151.298	1.00	0.00	H
ATOM	602	HA	ALA	39	61.871	73.900	152.909	1.00	0.00	H
ATOM	603	HB1	ALA	39	59.878	73.156	151.614	1.00	0.00	H
ATOM	604	HB2	ALA	39	59.733	71.726	152.664	1.00	0.00	H

ATOM	605	HB3	ALA	39	59.480	73.354	153.338	1.00	0.00	H
ATOM	606	N	CYS	40	61.901	71.103	154.662	1.00	0.00	N
ATOM	607	CA	CYS	40	62.318	70.541	155.948	1.00	0.00	C
ATOM	608	C	CYS	40	63.722	71.035	156.335	1.00	0.00	C
ATOM	609	O	CYS	40	63.929	71.429	157.483	1.00	0.00	O
ATOM	610	CB	CYS	40	62.289	69.000	155.907	1.00	0.00	C
ATOM	611	SG	CYS	40	60.617	68.310	155.683	1.00	0.00	S
ATOM	612	H	CYS	40	61.657	70.458	153.924	1.00	0.00	H
ATOM	613	HA	CYS	40	61.612	70.882	156.705	1.00	0.00	H
ATOM	614	HB2	CYS	40	62.695	68.622	156.845	1.00	0.00	H
ATOM	615	HB3	CYS	40	62.914	68.665	155.079	1.00	0.00	H
ATOM	616	HG	CYS	40	59.832	68.709	156.688	1.00	0.00	H
ATOM	617	N	LEU	41	64.666	71.089	155.384	1.00	0.00	N
ATOM	618	CA	LEU	41	66.025	71.568	155.637	1.00	0.00	C
ATOM	619	C	LEU	41	66.075	73.046	156.055	1.00	0.00	C

ATOM	620	O	LEU	41	66.653	73.336	157.103	1.00	0.00	O
ATOM	621	CB	LEU	41	66.910	71.250	154.417	1.00	0.00	C
ATOM	622	CG	LEU	41	68.366	71.727	154.548	1.00	0.00	C
ATOM	623	CD1	LEU	41	69.102	71.038	155.702	1.00	0.00	C
ATOM	624	CD2	LEU	41	69.109	71.408	153.249	1.00	0.00	C
ATOM	625	H	LEU	41	64.428	70.785	154.451	1.00	0.00	H
ATOM	626	HA	LEU	41	66.426	71.035	156.500	1.00	0.00	H
ATOM	627	HB2	LEU	41	66.917	70.170	154.273	1.00	0.00	H
ATOM	628	HB3	LEU	41	66.471	71.731	153.543	1.00	0.00	H
ATOM	629	HG	LEU	41	68.345	72.798	154.748	1.00	0.00	H
ATOM	630	HD11	LEU	41	68.576	71.234	156.637	1.00	0.00	H
ATOM	631	HD12	LEU	41	69.135	69.963	155.522	1.00	0.00	H
ATOM	632	HD13	LEU	41	70.118	71.427	155.768	1.00	0.00	H
ATOM	633	HD21	LEU	41	69.108	70.330	153.085	1.00	0.00	H
ATOM	634	HD22	LEU	41	68.612	71.903	152.415	1.00	0.00	H
ATOM	635	HD23	LEU	41	70.137	71.763	153.322	1.00	0.00	H

ATOM	636	N	ILE	42	65.403	73.955	155.335	1.00	0.00	N
ATOM	637	CA	ILE	42	65.307	75.361	155.777	1.00	0.00	C
ATOM	638	C	ILE	42	64.547	75.500	157.104	1.00	0.00	C
ATOM	639	O	ILE	42	65.035	76.185	157.997	1.00	0.00	O
ATOM	640	CB	ILE	42	64.897	76.380	154.671	1.00	0.00	C
ATOM	641	CG1	ILE	42	63.932	77.487	155.161	1.00	0.00	C
ATOM	642	CG2	ILE	42	64.431	75.739	153.353	1.00	0.00	C
ATOM	643	CD1	ILE	42	63.755	78.657	154.185	1.00	0.00	C
ATOM	644	H	ILE	42	64.954	73.674	154.475	1.00	0.00	H
ATOM	645	HA	ILE	42	66.331	75.668	155.991	1.00	0.00	H
ATOM	646	HB	ILE	42	65.834	76.882	154.432	1.00	0.00	H
ATOM	647	HG12	ILE	42	62.955	77.035	155.331	1.00	0.00	H
ATOM	648	HG13	ILE	42	64.318	77.883	156.100	1.00	0.00	H
ATOM	649	HG21	ILE	42	65.185	75.033	153.006	1.00	0.00	H
ATOM	650	HG22	ILE	42	63.490	75.214	153.517	1.00	0.00	H

ATOM	651	HG23	ILE	42	64.288	76.516	152.602	1.00	0.00	H
ATOM	652	HD11	ILE	42	64.717	79.142	154.020	1.00	0.00	H
ATOM	653	HD12	ILE	42	63.369	78.284	153.236	1.00	0.00	H
ATOM	654	HD13	ILE	42	63.053	79.377	154.605	1.00	0.00	H
ATOM	655	N	LEU	43	63.442	74.769	157.306	1.00	0.00	N
ATOM	656	CA	LEU	43	62.658	74.817	158.547	1.00	0.00	C
ATOM	657	C	LEU	43	63.487	74.420	159.778	1.00	0.00	C
ATOM	658	O	LEU	43	63.498	75.154	160.770	1.00	0.00	O
ATOM	659	CB	LEU	43	61.401	73.949	158.373	1.00	0.00	C
ATOM	660	CG	LEU	43	60.504	73.899	159.631	1.00	0.00	C
ATOM	661	CD1	LEU	43	59.036	74.079	159.238	1.00	0.00	C
ATOM	662	CD2	LEU	43	60.629	72.562	160.366	1.00	0.00	C
ATOM	663	H	LEU	43	63.133	74.154	156.567	1.00	0.00	H
ATOM	664	HA	LEU	43	62.350	75.846	158.736	1.00	0.00	H
ATOM	665	HB2	LEU	43	60.815	74.353	157.548	1.00	0.00	H
ATOM	666	HB3	LEU	43	61.714	72.933	158.133	1.00	0.00	H

ATOM	667	HG	LEU	43	60.835	74.704	160.288	1.00	0.00	H
ATOM	668	HD11	LEU	43	58.913	75.028	158.716	1.00	0.00	H
ATOM	669	HD12	LEU	43	58.733	73.262	158.583	1.00	0.00	H
ATOM	670	HD13	LEU	43	58.417	74.075	160.135	1.00	0.00	H
ATOM	671	HD21	LEU	43	60.299	71.755	159.711	1.00	0.00	H
ATOM	672	HD22	LEU	43	61.669	72.398	160.648	1.00	0.00	H
ATOM	673	HD23	LEU	43	60.008	72.580	161.262	1.00	0.00	H
ATOM	674	N	GLN	44	64.254	73.329	159.682	1.00	0.00	N
ATOM	675	CA	GLN	44	65.202	72.913	160.717	1.00	0.00	C
ATOM	676	C	GLN	44	66.352	73.921	160.896	1.00	0.00	C
ATOM	677	O	GLN	44	66.793	74.145	162.023	1.00	0.00	O
ATOM	678	CB	GLN	44	65.779	71.528	160.374	1.00	0.00	C
ATOM	679	CG	GLN	44	64.795	70.354	160.449	1.00	0.00	C
ATOM	680	CD	GLN	44	64.196	70.160	161.828	1.00	0.00	C
ATOM	681	OE1	GLN	44	63.114	70.632	162.105	1.00	0.00	O

ATOM	682	NE2	GLN	44	64.946	69.686	162.801	1.00	0.00	N
ATOM	683	H	GLN	44	64.175	72.761	158.850	1.00	0.00	H
ATOM	684	HA	GLN	44	64.654	72.868	161.658	1.00	0.00	H
ATOM	685	HB2	GLN	44	66.170	71.572	159.357	1.00	0.00	H
ATOM	686	HB3	GLN	44	66.594	71.325	161.068	1.00	0.00	H
ATOM	687	HG2	GLN	44	65.323	69.442	160.170	1.00	0.00	H
ATOM	688	HG3	GLN	44	63.985	70.536	159.743	1.00	0.00	H
ATOM	689	HE21	GLN	44	64.616	69.720	163.755	1.00	0.00	H
ATOM	690	HE22	GLN	44	65.851	69.288	162.593	1.00	0.00	H
ATOM	691	N	ILE	45	66.846	74.549	159.822	1.00	0.00	N
ATOM	692	CA	ILE	45	67.893	75.581	159.928	1.00	0.00	C
ATOM	693	C	ILE	45	67.376	76.852	160.627	1.00	0.00	C
ATOM	694	O	ILE	45	68.058	77.380	161.504	1.00	0.00	O
ATOM	695	CB	ILE	45	68.542	75.848	158.548	1.00	0.00	C
ATOM	696	CG1	ILE	45	69.475	74.666	158.188	1.00	0.00	C
ATOM	697	CG2	ILE	45	69.342	77.165	158.504	1.00	0.00	C

ATOM	698	CD1	ILE	45	69.945	74.655	156.723	1.00	0.00	C
ATOM	699	H	ILE	45	66.489	74.308	158.908	1.00	0.00	H
ATOM	700	HA	ILE	45	68.687	75.204	160.573	1.00	0.00	H
ATOM	701	HB	ILE	45	67.734	75.942	157.823	1.00	0.00	H
ATOM	702	HG12	ILE	45	70.355	74.718	158.829	1.00	0.00	H
ATOM	703	HG13	ILE	45	68.939	73.737	158.382	1.00	0.00	H
ATOM	704	HG21	ILE	45	68.687	77.997	158.763	1.00	0.00	H
ATOM	705	HG22	ILE	45	70.164	77.115	159.218	1.00	0.00	H
ATOM	706	HG23	ILE	45	69.740	77.315	157.501	1.00	0.00	H
ATOM	707	HD11	ILE	45	69.080	74.578	156.064	1.00	0.00	H
ATOM	708	HD12	ILE	45	70.484	75.577	156.508	1.00	0.00	H
ATOM	709	HD13	ILE	45	70.604	73.802	156.559	1.00	0.00	H
ATOM	710	N	THR	46	66.172	77.325	160.299	1.00	0.00	N
ATOM	711	CA	THR	46	65.588	78.538	160.890	1.00	0.00	C
ATOM	712	C	THR	46	65.188	78.318	162.351	1.00	0.00	C

ATOM	713	O	THR	46	65.569	79.111	163.211	1.00	0.00	O
ATOM	714	CB	THR	46	64.376	79.019	160.074	1.00	0.00	C
ATOM	715	OG1	THR	46	64.724	79.204	158.725	1.00	0.00	O
ATOM	716	CG2	THR	46	63.819	80.362	160.558	1.00	0.00	C
ATOM	717	H	THR	46	65.633	76.823	159.608	1.00	0.00	H
ATOM	718	HA	THR	46	66.356	79.311	160.864	1.00	0.00	H
ATOM	719	HB	THR	46	63.624	78.241	160.201	1.00	0.00	H
ATOM	720	HG21	THR	46	63.553	80.286	161.612	1.00	0.00	H
ATOM	721	HG22	THR	46	64.575	81.137	160.429	1.00	0.00	H
ATOM	722	HG23	THR	46	62.933	80.618	159.977	1.00	0.00	H
ATOM	723	HG1	THR	46	65.386	79.899	158.689	1.00	0.00	H
ATOM	724	N	THR	47	64.489	77.222	162.659	1.00	0.00	N
ATOM	725	CA	THR	47	64.096	76.906	164.044	1.00	0.00	C
ATOM	726	C	THR	47	65.301	76.565	164.911	1.00	0.00	C
ATOM	727	O	THR	47	65.482	77.169	165.969	1.00	0.00	O
ATOM	728	CB	THR	47	63.079	75.761	164.123	1.00	0.00	C

ATOM	729	OG1 THR	47	63.465	74.621	163.406	1.00	0.00	O
ATOM	730	CG2 THR	47	61.745	76.173	163.546	1.00	0.00	C
ATOM	731	H THR	47	64.221	76.589	161.919	1.00	0.00	H
ATOM	732	HA THR	47	63.624	77.811	164.426	1.00	0.00	H
ATOM	733	HB THR	47	63.016	75.530	165.186	1.00	0.00	H
ATOM	734	HG21 THR	47	61.384	77.062	164.064	1.00	0.00	H
ATOM	735	HG22 THR	47	61.861	76.393	162.485	1.00	0.00	H
ATOM	736	HG23 THR	47	61.028	75.362	163.673	1.00	0.00	H
ATOM	737	HG1 THR	47	63.509	74.863	162.478	1.00	0.00	H
ATOM	738	N GLY	48	66.207	75.724	164.392	1.00	0.00	N
ATOM	739	CA GLY	48	67.482	75.388	165.012	1.00	0.00	C
ATOM	740	C GLY	48	68.336	76.605	165.353	1.00	0.00	C
ATOM	741	O GLY	48	68.818	76.691	166.488	1.00	0.00	O
ATOM	742	H GLY	48	65.990	75.291	163.506	1.00	0.00	H
ATOM	743	HA2 GLY	48	67.283	74.838	165.932	1.00	0.00	H

ATOM	744	HA3 GLY	48	68.043	74.755	164.324	1.00	0.00	H
ATOM	745	N LEU	49	68.455	77.576	164.436	1.00	0.00	N
ATOM	746	CA LEU	49	69.169	78.832	164.699	1.00	0.00	C
ATOM	747	C LEU	49	68.514	79.633	165.824	1.00	0.00	C
ATOM	748	O LEU	49	69.206	80.072	166.747	1.00	0.00	O
ATOM	749	CB LEU	49	69.275	79.655	163.399	1.00	0.00	C
ATOM	750	CG LEU	49	70.042	80.986	163.567	1.00	0.00	C
ATOM	751	CD1 LEU	49	71.531	80.743	163.848	1.00	0.00	C
ATOM	752	CD2 LEU	49	69.918	81.821	162.290	1.00	0.00	C
ATOM	753	H LEU	49	68.036	77.438	163.527	1.00	0.00	H
ATOM	754	HA LEU	49	70.176	78.591	165.039	1.00	0.00	H
ATOM	755	HB2 LEU	49	69.791	79.053	162.651	1.00	0.00	H
ATOM	756	HB3 LEU	49	68.267	79.880	163.051	1.00	0.00	H
ATOM	757	HG LEU	49	69.604	81.514	164.414	1.00	0.00	H
ATOM	758	HD11 LEU	49	71.637	80.143	164.752	1.00	0.00	H
ATOM	759	HD12 LEU	49	71.978	80.215	163.006	1.00	0.00	H

ATOM	760	HD13	LEU	49	72.035	81.699	163.986	1.00	0.00	H
ATOM	761	HD21	LEU	49	70.361	81.277	161.456	1.00	0.00	H
ATOM	762	HD22	LEU	49	68.865	82.012	162.082	1.00	0.00	H
ATOM	763	HD23	LEU	49	70.440	82.769	162.423	1.00	0.00	H
ATOM	764	N	PHE	50	67.182	79.759	165.823	1.00	0.00	N
ATOM	765	CA	PHE	50	66.450	80.408	166.907	1.00	0.00	C
ATOM	766	C	PHE	50	66.590	79.771	168.294	1.00	0.00	C
ATOM	767	O	PHE	50	66.776	80.482	169.284	1.00	0.00	O
ATOM	768	CB	PHE	50	64.985	80.732	166.517	1.00	0.00	C
ATOM	769	CG	PHE	50	64.813	82.017	165.714	1.00	0.00	C
ATOM	770	CD1	PHE	50	65.416	82.157	164.445	1.00	0.00	C
ATOM	771	CD2	PHE	50	64.028	83.069	166.227	1.00	0.00	C
ATOM	772	CE1	PHE	50	65.227	83.330	163.690	1.00	0.00	C
ATOM	773	CE2	PHE	50	63.848	84.245	165.478	1.00	0.00	C
ATOM	774	CZ	PHE	50	64.442	84.376	164.209	1.00	0.00	C

ATOM	775	H	PHE	50	66.661	79.390	165.040	1.00	0.00	H
ATOM	776	HA	PHE	50	66.965	81.360	167.037	1.00	0.00	H
ATOM	777	HB2	PHE	50	64.600	79.904	165.921	1.00	0.00	H
ATOM	778	HB3	PHE	50	64.401	80.822	167.433	1.00	0.00	H
ATOM	779	HD1	PHE	50	66.027	81.358	164.051	1.00	0.00	H
ATOM	780	HD2	PHE	50	63.564	82.972	167.197	1.00	0.00	H
ATOM	781	HE1	PHE	50	65.683	83.427	162.716	1.00	0.00	H
ATOM	782	HE2	PHE	50	63.251	85.051	165.878	1.00	0.00	H
ATOM	783	HZ	PHE	50	64.295	85.278	163.634	1.00	0.00	H
ATOM	784	N	LEU	51	66.626	78.434	168.359	1.00	0.00	N
ATOM	785	CA	LEU	51	66.955	77.693	169.582	1.00	0.00	C
ATOM	786	C	LEU	51	68.393	77.964	170.036	1.00	0.00	C
ATOM	787	O	LEU	51	68.621	78.202	171.221	1.00	0.00	O
ATOM	788	CB	LEU	51	66.725	76.182	169.364	1.00	0.00	C
ATOM	789	CG	LEU	51	65.256	75.813	169.104	1.00	0.00	C
ATOM	790	CD1	LEU	51	65.100	74.353	168.671	1.00	0.00	C

ATOM	791	CD2	LEU	51	64.392	76.030	170.345	1.00	0.00	C
ATOM	792	H	LEU	51	66.416	77.908	167.523	1.00	0.00	H
ATOM	793	HA	LEU	51	66.294	78.040	170.376	1.00	0.00	H
ATOM	794	HB2	LEU	51	67.317	75.864	168.506	1.00	0.00	H
ATOM	795	HB3	LEU	51	67.061	75.651	170.254	1.00	0.00	H
ATOM	796	HG	LEU	51	64.924	76.470	168.300	1.00	0.00	H
ATOM	797	HD11	LEU	51	65.704	74.171	167.782	1.00	0.00	H
ATOM	798	HD12	LEU	51	65.432	73.698	169.476	1.00	0.00	H
ATOM	799	HD13	LEU	51	64.053	74.150	168.447	1.00	0.00	H
ATOM	800	HD21	LEU	51	64.730	75.369	171.143	1.00	0.00	H
ATOM	801	HD22	LEU	51	64.478	77.067	170.671	1.00	0.00	H
ATOM	802	HD23	LEU	51	63.352	75.809	170.107	1.00	0.00	H
ATOM	803	N	ALA	52	69.349	78.047	169.106	1.00	0.00	N
ATOM	804	CA	ALA	52	70.744	78.349	169.417	1.00	0.00	C
ATOM	805	C	ALA	52	70.990	79.787	169.939	1.00	0.00	C

ATOM	806	O	ALA	52	72.068	80.047	170.466	1.00	0.00	O
ATOM	807	CB	ALA	52	71.594	78.036	168.180	1.00	0.00	C
ATOM	808	H	ALA	52	69.095	77.893	168.141	1.00	0.00	H
ATOM	809	HA	ALA	52	71.040	77.716	170.253	1.00	0.00	H
ATOM	810	HB1	ALA	52	71.457	76.992	167.900	1.00	0.00	H
ATOM	811	HB2	ALA	52	71.285	78.678	167.355	1.00	0.00	H
ATOM	812	HB3	ALA	52	72.645	78.216	168.406	1.00	0.00	H
ATOM	813	N	MET	53	70.003	80.692	169.884	1.00	0.00	N
ATOM	814	CA	MET	53	70.073	82.003	170.552	1.00	0.00	C
ATOM	815	C	MET	53	69.837	81.937	172.077	1.00	0.00	C
ATOM	816	O	MET	53	70.059	82.932	172.768	1.00	0.00	O
ATOM	817	CB	MET	53	69.063	82.986	169.929	1.00	0.00	C
ATOM	818	CG	MET	53	69.226	83.141	168.413	1.00	0.00	C
ATOM	819	SD	MET	53	68.345	84.551	167.687	1.00	0.00	S
ATOM	820	CE	MET	53	66.651	84.237	168.259	1.00	0.00	C
ATOM	821	H	MET	53	69.171	80.464	169.359	1.00	0.00	H

ATOM	822	HA	MET	53	71.093	82.354	170.398	1.00	0.00	H
ATOM	823	HB2	MET	53	69.199	83.963	170.393	1.00	0.00	H
ATOM	824	HB3	MET	53	68.056	82.623	170.134	1.00	0.00	H
ATOM	825	HG2	MET	53	68.857	82.231	167.939	1.00	0.00	H
ATOM	826	HG3	MET	53	70.288	83.259	168.197	1.00	0.00	H
ATOM	827	HE1	MET	53	66.313	83.272	167.881	1.00	0.00	H
ATOM	828	HE2	MET	53	66.631	84.227	169.349	1.00	0.00	H
ATOM	829	HE3	MET	53	65.992	85.023	167.891	1.00	0.00	H
ATOM	830	N	HIS	54	69.387	80.787	172.600	1.00	0.00	N
ATOM	831	CA	HIS	54	68.980	80.605	174.005	1.00	0.00	C
ATOM	832	C	HIS	54	69.527	79.312	174.626	1.00	0.00	C
ATOM	833	O	HIS	54	69.697	79.235	175.842	1.00	0.00	O
ATOM	834	CB	HIS	54	67.442	80.614	174.091	1.00	0.00	C
ATOM	835	CG	HIS	54	66.769	81.815	173.471	1.00	0.00	C
ATOM	836	ND1	HIS	54	66.622	83.068	174.065	1.00	0.00	N

ATOM	837	CD2	HIS	54	66.132	81.828	172.264	1.00	0.00	C
ATOM	838	CE1	HIS	54	65.952	83.823	173.180	1.00	0.00	C
ATOM	839	NE2	HIS	54	65.645	83.101	172.086	1.00	0.00	N
ATOM	840	H	HIS	54	69.322	79.987	171.986	1.00	0.00	H
ATOM	841	HA	HIS	54	69.404	81.431	174.576	1.00	0.00	H
ATOM	842	HB2	HIS	54	67.163	80.578	175.144	1.00	0.00	H
ATOM	843	HB3	HIS	54	67.071	79.722	173.586	1.00	0.00	H
ATOM	844	HD2	HIS	54	66.030	80.998	171.580	1.00	0.00	H
ATOM	845	HE2	HIS	54	65.144	83.436	171.276	1.00	0.00	H
ATOM	846	HE1	HIS	54	65.696	84.862	173.325	1.00	0.00	H
ATOM	847	N	TYR	55	69.824	78.299	173.806	1.00	0.00	N
ATOM	848	CA	TYR	55	70.409	77.039	174.250	1.00	0.00	C
ATOM	849	C	TYR	55	71.849	77.125	174.782	1.00	0.00	C
ATOM	850	O	TYR	55	72.666	77.832	174.197	1.00	0.00	O
ATOM	851	CB	TYR	55	70.212	75.956	173.180	1.00	0.00	C
ATOM	852	CG	TYR	55	71.002	74.690	173.435	1.00	0.00	C

ATOM	853	CD1 TYR	55	72.200	74.418	172.750	1.00	0.00	C
ATOM	854	CD2 TYR	55	70.528	73.797	174.413	1.00	0.00	C
ATOM	855	CE1 TYR	55	72.905	73.229	173.019	1.00	0.00	C
ATOM	856	CE2 TYR	55	71.225	72.611	174.682	1.00	0.00	C
ATOM	857	CZ TYR	55	72.409	72.320	173.981	1.00	0.00	C
ATOM	858	OH TYR	55	73.061	71.156	174.209	1.00	0.00	O
ATOM	859	H TYR	55	69.632	78.413	172.821	1.00	0.00	H
ATOM	860	HA TYR	55	69.855	76.747	175.142	1.00	0.00	H
ATOM	861	HB2 TYR	55	69.154	75.698	173.143	1.00	0.00	H
ATOM	862	HB3 TYR	55	70.520	76.365	172.218	1.00	0.00	H
ATOM	863	HD1 TYR	55	72.578	75.119	172.020	1.00	0.00	H
ATOM	864	HD2 TYR	55	69.624	74.026	174.958	1.00	0.00	H
ATOM	865	HE1 TYR	55	73.822	73.012	172.492	1.00	0.00	H
ATOM	866	HE2 TYR	55	70.854	71.922	175.426	1.00	0.00	H
ATOM	867	HH TYR	55	72.653	70.583	174.862	1.00	0.00	H

ATOM	868	N	SER	56	72.198	76.348	175.816	1.00	0.00	N
ATOM	869	CA	SER	56	73.558	76.302	176.362	1.00	0.00	C
ATOM	870	C	SER	56	74.165	74.898	176.255	1.00	0.00	C
ATOM	871	O	SER	56	73.686	73.969	176.916	1.00	0.00	O
ATOM	872	CB	SER	56	73.563	76.790	177.811	1.00	0.00	C
ATOM	873	OG	SER	56	74.885	77.001	178.227	1.00	0.00	O
ATOM	874	H	SER	56	71.490	75.766	176.240	1.00	0.00	H
ATOM	875	HA	SER	56	74.181	76.968	175.766	1.00	0.00	H
ATOM	876	HB2	SER	56	73.096	76.039	178.449	1.00	0.00	H
ATOM	877	HB3	SER	56	73.006	77.724	177.882	1.00	0.00	H
ATOM	878	HG	SER	56	75.349	76.164	178.154	1.00	0.00	H
ATOM	879	N	PRO	57	75.313	74.730	175.563	1.00	0.00	N
ATOM	880	CA	PRO	57	75.907	73.415	175.297	1.00	0.00	C
ATOM	881	C	PRO	57	76.750	72.837	176.455	1.00	0.00	C
ATOM	882	O	PRO	57	77.707	72.100	176.216	1.00	0.00	O
ATOM	883	CB	PRO	57	76.682	73.625	173.986	1.00	0.00	C

ATOM	884	CG	PRO	57	77.192	75.060	174.118	1.00	0.00	C
ATOM	885	CD	PRO	57	76.019	75.762	174.802	1.00	0.00	C
ATOM	886	HA	PRO	57	75.147	72.639	175.205	1.00	0.00	H
ATOM	887	HB2	PRO	57	77.510	72.921	173.902	1.00	0.00	H
ATOM	888	HB3	PRO	57	76.026	73.520	173.122	1.00	0.00	H
ATOM	889	HG2	PRO	57	77.398	75.497	173.141	1.00	0.00	H
ATOM	890	HG3	PRO	57	78.091	75.104	174.733	1.00	0.00	H
ATOM	891	HD2	PRO	57	75.356	76.202	174.057	1.00	0.00	H
ATOM	892	HD3	PRO	57	76.383	76.542	175.471	1.00	0.00	H
ATOM	893	N	ASP	58	76.424	73.206	177.702	1.00	0.00	N
ATOM	894	CA	ASP	58	77.095	72.755	178.931	1.00	0.00	C
ATOM	895	C	ASP	58	76.153	71.845	179.740	1.00	0.00	C
ATOM	896	O	ASP	58	75.018	72.226	180.021	1.00	0.00	O
ATOM	897	CB	ASP	58	77.555	73.974	179.759	1.00	0.00	C
ATOM	898	CG	ASP	58	78.355	73.588	181.037	1.00	0.00	C

ATOM	899	OD1 ASP	58	78.484	72.362	181.319	1.00	0.00	O
ATOM	900	OD2 ASP	58	78.680	74.508	181.838	1.00	0.00	O1-
ATOM	901	H ASP	58	75.652	73.849	177.807	1.00	0.00	H
ATOM	902	HA ASP	58	77.980	72.174	178.671	1.00	0.00	H
ATOM	903	HB2 ASP	58	76.673	74.539	180.061	1.00	0.00	H
ATOM	904	HB3 ASP	58	78.189	74.599	179.130	1.00	0.00	H
ATOM	905	N ALA	59	76.617	70.670	180.187	1.00	0.00	N
ATOM	906	CA ALA	59	75.823	69.727	180.977	1.00	0.00	C
ATOM	907	C ALA	59	75.296	70.314	182.310	1.00	0.00	C
ATOM	908	O ALA	59	74.290	69.820	182.821	1.00	0.00	O
ATOM	909	CB ALA	59	76.676	68.474	181.220	1.00	0.00	C
ATOM	910	H ALA	59	77.570	70.420	179.966	1.00	0.00	H
ATOM	911	HA ALA	59	74.925	69.482	180.409	1.00	0.00	H
ATOM	912	HB1 ALA	59	76.973	68.045	180.263	1.00	0.00	H
ATOM	913	HB2 ALA	59	77.566	68.745	181.788	1.00	0.00	H
ATOM	914	HB3 ALA	59	76.095	67.742	181.781	1.00	0.00	H

ATOM	915	N	SER	60	75.893	71.399	182.826	1.00	0.00	N
ATOM	916	CA	SER	60	75.381	72.127	184.001	1.00	0.00	C
ATOM	917	C	SER	60	74.106	72.952	183.734	1.00	0.00	C
ATOM	918	O	SER	60	73.397	73.302	184.676	1.00	0.00	O
ATOM	919	CB	SER	60	76.481	73.030	184.587	1.00	0.00	C
ATOM	920	OG	SER	60	76.854	74.057	183.686	1.00	0.00	O
ATOM	921	H	SER	60	76.738	71.735	182.386	1.00	0.00	H
ATOM	922	HA	SER	60	75.094	71.360	184.721	1.00	0.00	H
ATOM	923	HB2	SER	60	77.357	72.420	184.809	1.00	0.00	H
ATOM	924	HB3	SER	60	76.112	73.484	185.507	1.00	0.00	H
ATOM	925	HG	SER	60	77.176	73.637	182.885	1.00	0.00	H
ATOM	926	N	THR	61	73.754	73.212	182.466	1.00	0.00	N
ATOM	927	CA	THR	61	72.636	74.102	182.094	1.00	0.00	C
ATOM	928	C	THR	61	71.882	73.671	180.823	1.00	0.00	C
ATOM	929	O	THR	61	70.879	74.301	180.485	1.00	0.00	O

ATOM	930	CB	THR	61	73.117	75.570	182.042	1.00	0.00	C
ATOM	931	OG1	THR	61	72.128	76.445	181.525	1.00	0.00	O
ATOM	932	CG2	THR	61	74.383	75.746	181.205	1.00	0.00	C
ATOM	933	H	THR	61	74.283	72.775	181.725	1.00	0.00	H
ATOM	934	HA	THR	61	71.887	74.015	182.881	1.00	0.00	H
ATOM	935	HB	THR	61	73.330	75.827	183.080	1.00	0.00	H
ATOM	936	HG21	THR	61	75.166	75.092	181.588	1.00	0.00	H
ATOM	937	HG22	THR	61	74.171	75.489	180.167	1.00	0.00	H
ATOM	938	HG23	THR	61	74.715	76.783	181.262	1.00	0.00	H
ATOM	939	HG1	THR	61	71.965	76.192	180.613	1.00	0.00	H
ATOM	940	N	ALA	62	72.287	72.603	180.130	1.00	0.00	N
ATOM	941	CA	ALA	62	71.708	72.170	178.851	1.00	0.00	C
ATOM	942	C	ALA	62	70.190	71.964	178.948	1.00	0.00	C
ATOM	943	O	ALA	62	69.438	72.775	178.401	1.00	0.00	O
ATOM	944	CB	ALA	62	72.443	70.911	178.360	1.00	0.00	C
ATOM	945	H	ALA	62	73.044	72.055	180.512	1.00	0.00	H

ATOM	946	HA	ALA	62	71.849	72.960	178.113	1.00	0.00	H
ATOM	947	HB1	ALA	62	73.505	71.131	178.247	1.00	0.00	H
ATOM	948	HB2	ALA	62	72.314	70.108	179.086	1.00	0.00	H
ATOM	949	HB3	ALA	62	72.032	70.602	177.399	1.00	0.00	H
ATOM	950	N	PHE	63	69.742	71.038	179.801	1.00	0.00	N
ATOM	951	CA	PHE	63	68.319	70.729	180.003	1.00	0.00	C
ATOM	952	C	PHE	63	67.583	71.986	180.517	1.00	0.00	C
ATOM	953	O	PHE	63	66.491	72.297	180.049	1.00	0.00	O
ATOM	954	CB	PHE	63	68.252	69.611	181.052	1.00	0.00	C
ATOM	955	CG	PHE	63	66.909	68.915	181.155	1.00	0.00	C
ATOM	956	CD1	PHE	63	66.732	67.648	180.570	1.00	0.00	C
ATOM	957	CD2	PHE	63	65.837	69.523	181.846	1.00	0.00	C
ATOM	958	CE1	PHE	63	65.490	66.998	180.653	1.00	0.00	C
ATOM	959	CE2	PHE	63	64.592	68.874	181.922	1.00	0.00	C
ATOM	960	CZ	PHE	63	64.417	67.614	181.326	1.00	0.00	C

ATOM	961	H	PHE	63	70.422	70.519	180.339	1.00	0.00	H
ATOM	962	HA	PHE	63	67.845	70.416	179.073	1.00	0.00	H
ATOM	963	HB2	PHE	63	69.003	68.863	180.799	1.00	0.00	H
ATOM	964	HB3	PHE	63	68.485	70.044	182.025	1.00	0.00	H
ATOM	965	HD1	PHE	63	67.554	67.173	180.055	1.00	0.00	H
ATOM	966	HD2	PHE	63	65.974	70.486	182.316	1.00	0.00	H
ATOM	967	HE1	PHE	63	65.358	66.026	180.201	1.00	0.00	H
ATOM	968	HE2	PHE	63	63.769	69.345	182.439	1.00	0.00	H
ATOM	969	HZ	PHE	63	63.460	67.118	181.384	1.00	0.00	H
ATOM	970	N	SER	64	68.207	72.770	181.408	1.00	0.00	N
ATOM	971	CA	SER	64	67.614	73.999	181.962	1.00	0.00	C
ATOM	972	C	SER	64	67.382	75.075	180.893	1.00	0.00	C
ATOM	973	O	SER	64	66.382	75.785	180.954	1.00	0.00	O
ATOM	974	CB	SER	64	68.506	74.563	183.074	1.00	0.00	C
ATOM	975	OG	SER	64	67.811	75.564	183.793	1.00	0.00	O
ATOM	976	H	SER	64	69.132	72.504	181.715	1.00	0.00	H

ATOM	977	HA	SER	64	66.640	73.725	182.368	1.00	0.00	H
ATOM	978	HB2	SER	64	69.404	74.994	182.632	1.00	0.00	H
ATOM	979	HB3	SER	64	68.786	73.759	183.754	1.00	0.00	H
ATOM	980	HG	SER	64	67.577	76.258	183.172	1.00	0.00	H
ATOM	981	N	SER	65	68.259	75.175	179.888	1.00	0.00	N
ATOM	982	CA	SER	65	68.096	76.094	178.758	1.00	0.00	C
ATOM	983	C	SER	65	66.976	75.650	177.802	1.00	0.00	C
ATOM	984	O	SER	65	66.218	76.496	177.336	1.00	0.00	O
ATOM	985	CB	SER	65	69.434	76.319	178.032	1.00	0.00	C
ATOM	986	OG	SER	65	69.881	75.189	177.309	1.00	0.00	O
ATOM	987	H	SER	65	69.078	74.585	179.909	1.00	0.00	H
ATOM	988	HA	SER	65	67.780	77.056	179.161	1.00	0.00	H
ATOM	989	HB2	SER	65	70.190	76.575	178.774	1.00	0.00	H
ATOM	990	HB3	SER	65	69.313	77.149	177.335	1.00	0.00	H
ATOM	991	HG	SER	65	69.983	74.467	177.933	1.00	0.00	H

ATOM	992	N	ILE	66	66.739	74.337	177.642	1.00	0.00	N
ATOM	993	CA	ILE	66	65.550	73.802	176.940	1.00	0.00	C
ATOM	994	C	ILE	66	64.258	74.121	177.702	1.00	0.00	C
ATOM	995	O	ILE	66	63.281	74.592	177.115	1.00	0.00	O
ATOM	996	CB	ILE	66	65.658	72.276	176.702	1.00	0.00	C
ATOM	997	CG1	ILE	66	67.002	71.822	176.104	1.00	0.00	C
ATOM	998	CG2	ILE	66	64.508	71.781	175.803	1.00	0.00	C
ATOM	999	CD1	ILE	66	67.404	72.571	174.831	1.00	0.00	C
ATOM	1000	H	ILE	66	67.407	73.681	178.020	1.00	0.00	H
ATOM	1001	HA	ILE	66	65.514	74.297	175.969	1.00	0.00	H
ATOM	1002	HB	ILE	66	65.589	71.828	177.693	1.00	0.00	H
ATOM	1003	HG12	ILE	66	67.779	71.977	176.852	1.00	0.00	H
ATOM	1004	HG13	ILE	66	66.931	70.760	175.868	1.00	0.00	H
ATOM	1005	HG21	ILE	66	63.553	72.057	176.250	1.00	0.00	H
ATOM	1006	HG22	ILE	66	64.594	72.239	174.818	1.00	0.00	H
ATOM	1007	HG23	ILE	66	64.564	70.697	175.706	1.00	0.00	H

ATOM	1008	HD11	ILE	66	66.650	72.409	174.061	1.00	0.00	H
ATOM	1009	HD12	ILE	66	67.481	73.637	175.046	1.00	0.00	H
ATOM	1010	HD13	ILE	66	68.367	72.201	174.480	1.00	0.00	H
ATOM	1011	N	ALA	67	64.266	73.957	179.028	1.00	0.00	N
ATOM	1012	CA	ALA	67	63.138	74.347	179.870	1.00	0.00	C
ATOM	1013	C	ALA	67	62.857	75.863	179.765	1.00	0.00	C
ATOM	1014	O	ALA	67	61.736	76.245	179.422	1.00	0.00	O
ATOM	1015	CB	ALA	67	63.406	73.887	181.307	1.00	0.00	C
ATOM	1016	H	ALA	67	65.081	73.549	179.463	1.00	0.00	H
ATOM	1017	HA	ALA	67	62.229	73.856	179.522	1.00	0.00	H
ATOM	1018	HB1	ALA	67	63.534	72.805	181.324	1.00	0.00	H
ATOM	1019	HB2	ALA	67	64.312	74.366	181.679	1.00	0.00	H
ATOM	1020	HB3	ALA	67	62.563	74.163	181.940	1.00	0.00	H
ATOM	1021	N	HIS	68	63.881	76.712	179.899	1.00	0.00	N
ATOM	1022	CA	HIS	68	63.803	78.170	179.723	1.00	0.00	C

ATOM	1023	C	HIS	68	63.242	78.583	178.350	1.00	0.00	C
ATOM	1024	O	HIS	68	62.298	79.380	178.303	1.00	0.00	O
ATOM	1025	CB	HIS	68	65.213	78.733	179.962	1.00	0.00	C
ATOM	1026	CG	HIS	68	65.380	80.185	179.605	1.00	0.00	C
ATOM	1027	ND1	HIS	68	65.953	80.650	178.423	1.00	0.00	N
ATOM	1028	CD2	HIS	68	64.920	81.244	180.325	1.00	0.00	C
ATOM	1029	CE1	HIS	68	65.833	81.987	178.458	1.00	0.00	C
ATOM	1030	NE2	HIS	68	65.208	82.369	179.588	1.00	0.00	N
ATOM	1031	H	HIS	68	64.780	76.321	180.140	1.00	0.00	H
ATOM	1032	HA	HIS	68	63.097	78.586	180.442	1.00	0.00	H
ATOM	1033	HB2	HIS	68	65.916	78.153	179.363	1.00	0.00	H
ATOM	1034	HB3	HIS	68	65.451	78.614	181.019	1.00	0.00	H
ATOM	1035	HD2	HIS	68	64.427	81.208	181.285	1.00	0.00	H
ATOM	1036	HE2	HIS	68	64.988	83.319	179.850	1.00	0.00	H
ATOM	1037	HE1	HIS	68	66.187	82.659	177.690	1.00	0.00	H
ATOM	1038	N	ILE	69	63.655	77.905	177.270	1.00	0.00	N

ATOM	1039	CA	ILE	69	63.071	78.064	175.924	1.00	0.00	C
ATOM	1040	C	ILE	69	61.560	77.796	175.909	1.00	0.00	C
ATOM	1041	O	ILE	69	60.804	78.566	175.324	1.00	0.00	O
ATOM	1042	CB	ILE	69	63.839	77.179	174.906	1.00	0.00	C
ATOM	1043	CG1	ILE	69	65.181	77.851	174.539	1.00	0.00	C
ATOM	1044	CG2	ILE	69	63.042	76.877	173.626	1.00	0.00	C
ATOM	1045	CD1	ILE	69	66.207	76.880	173.936	1.00	0.00	C
ATOM	1046	H	ILE	69	64.411	77.246	177.384	1.00	0.00	H
ATOM	1047	HA	ILE	69	63.186	79.105	175.623	1.00	0.00	H
ATOM	1048	HB	ILE	69	64.010	76.221	175.397	1.00	0.00	H
ATOM	1049	HG12	ILE	69	64.985	78.640	173.813	1.00	0.00	H
ATOM	1050	HG13	ILE	69	65.607	78.286	175.443	1.00	0.00	H
ATOM	1051	HG21	ILE	69	62.098	76.400	173.890	1.00	0.00	H
ATOM	1052	HG22	ILE	69	62.843	77.807	173.094	1.00	0.00	H
ATOM	1053	HG23	ILE	69	63.620	76.210	172.987	1.00	0.00	H

ATOM	1054	HD11	ILE	69	66.432	76.094	174.658	1.00	0.00	H
ATOM	1055	HD12	ILE	69	65.797	76.434	173.030	1.00	0.00	H
ATOM	1056	HD13	ILE	69	67.121	77.422	173.693	1.00	0.00	H
ATOM	1057	N	THR	70	61.090	76.735	176.572	1.00	0.00	N
ATOM	1058	CA	THR	70	59.653	76.387	176.574	1.00	0.00	C
ATOM	1059	C	THR	70	58.792	77.246	177.510	1.00	0.00	C
ATOM	1060	O	THR	70	57.601	77.405	177.244	1.00	0.00	O
ATOM	1061	CB	THR	70	59.413	74.900	176.882	1.00	0.00	C
ATOM	1062	OG1	THR	70	59.932	74.544	178.145	1.00	0.00	O
ATOM	1063	CG2	THR	70	60.020	73.981	175.818	1.00	0.00	C
ATOM	1064	H	THR	70	61.736	76.154	177.087	1.00	0.00	H
ATOM	1065	HA	THR	70	59.332	76.604	175.555	1.00	0.00	H
ATOM	1066	HB	THR	70	58.331	74.765	176.882	1.00	0.00	H
ATOM	1067	HG21	THR	70	59.614	74.239	174.840	1.00	0.00	H
ATOM	1068	HG22	THR	70	61.103	74.105	175.806	1.00	0.00	H
ATOM	1069	HG23	THR	70	59.775	72.945	176.051	1.00	0.00	H

ATOM	1070	HG1 THR	70	60.883	74.673	178.115	1.00	0.00	H
ATOM	1071	N ARG	71	59.362	77.750	178.616	1.00	0.00	N
ATOM	1072	CA ARG	71	58.627	78.457	179.682	1.00	0.00	C
ATOM	1073	C ARG	71	58.645	79.976	179.476	1.00	0.00	C
ATOM	1074	O ARG	71	57.594	80.616	179.501	1.00	0.00	O
ATOM	1075	CB ARG	71	59.222	78.116	181.071	1.00	0.00	C
ATOM	1076	CG ARG	71	59.409	76.614	181.381	1.00	0.00	C
ATOM	1077	CD ARG	71	58.183	76.044	182.117	1.00	0.00	C
ATOM	1078	NE ARG	71	58.562	74.634	182.349	1.00	0.00	N
ATOM	1079	CZ ARG	71	58.142	73.861	183.340	1.00	0.00	C
ATOM	1080	NH1 ARG	71	57.231	74.242	184.191	1.00	0.00	N
ATOM	1081	NH2 ARG	71	58.653	72.667	183.485	1.00	0.00	N1+
ATOM	1082	H ARG	71	60.360	77.638	178.726	1.00	0.00	H
ATOM	1083	HA ARG	71	57.592	78.119	179.636	1.00	0.00	H
ATOM	1084	HB2 ARG	71	60.199	78.595	181.141	1.00	0.00	H

ATOM	1085	HB3 ARG	71	58.558	78.532	181.829	1.00	0.00	H
ATOM	1086	HG2 ARG	71	60.292	76.487	182.008	1.00	0.00	H
ATOM	1087	HG3 ARG	71	59.547	76.072	180.446	1.00	0.00	H
ATOM	1088	HD2 ARG	71	57.288	76.113	181.499	1.00	0.00	H
ATOM	1089	HD3 ARG	71	58.015	76.565	183.060	1.00	0.00	H
ATOM	1090	HE ARG	71	59.203	74.220	181.688	1.00	0.00	H
ATOM	1091	HH11 ARG	71	56.941	73.621	184.933	1.00	0.00	H
ATOM	1092	HH12 ARG	71	56.815	75.159	184.109	1.00	0.00	H
ATOM	1093	HH21 ARG	71	59.362	72.340	182.845	1.00	0.00	H
ATOM	1094	HH22 ARG	71	58.339	72.071	184.238	1.00	0.00	H
ATOM	1095	N ASP	72	59.839	80.530	179.242	1.00	0.00	N
ATOM	1096	CA ASP	72	60.121	81.953	179.439	1.00	0.00	C
ATOM	1097	C ASP	72	60.408	82.680	178.116	1.00	0.00	C
ATOM	1098	O ASP	72	60.059	83.854	177.964	1.00	0.00	O
ATOM	1099	CB ASP	72	61.334	82.098	180.374	1.00	0.00	C
ATOM	1100	CG ASP	72	61.198	81.446	181.762	1.00	0.00	C

ATOM	1101	OD1 ASP	72	60.072	81.084	182.166	1.00	0.00	O
ATOM	1102	OD2 ASP	72	62.264	81.276	182.397	1.00	0.00	O1-
ATOM	1103	H ASP	72	60.586	79.936	178.912	1.00	0.00	H
ATOM	1104	HA ASP	72	59.235	82.411	179.878	1.00	0.00	H
ATOM	1105	HB2 ASP	72	61.516	83.163	180.522	1.00	0.00	H
ATOM	1106	HB3 ASP	72	62.194	81.648	179.877	1.00	0.00	H
ATOM	1107	N VAL	73	61.034	82.005	177.138	1.00	0.00	N
ATOM	1108	CA VAL	73	61.268	82.587	175.807	1.00	0.00	C
ATOM	1109	C VAL	73	59.936	82.717	175.072	1.00	0.00	C
ATOM	1110	O VAL	73	59.202	81.745	174.882	1.00	0.00	O
ATOM	1111	CB VAL	73	62.282	81.773	174.985	1.00	0.00	C
ATOM	1112	CG1 VAL	73	62.494	82.338	173.570	1.00	0.00	C
ATOM	1113	CG2 VAL	73	63.645	81.742	175.684	1.00	0.00	C
ATOM	1114	H VAL	73	61.355	81.065	177.323	1.00	0.00	H
ATOM	1115	HA VAL	73	61.707	83.576	175.938	1.00	0.00	H

ATOM	1116	HB VAL	73	61.861	80.771	174.904	1.00	0.00	H
ATOM	1117	HG11 VAL	73	61.538	82.381	173.049	1.00	0.00	H
ATOM	1118	HG12 VAL	73	62.915	83.341	173.639	1.00	0.00	H
ATOM	1119	HG13 VAL	73	63.179	81.693	173.020	1.00	0.00	H
ATOM	1120	HG21 VAL	73	64.042	82.755	175.751	1.00	0.00	H
ATOM	1121	HG22 VAL	73	63.530	81.330	176.686	1.00	0.00	H
ATOM	1122	HG23 VAL	73	64.333	81.119	175.112	1.00	0.00	H
ATOM	1123	N ASN	74	59.635	83.932	174.604	1.00	0.00	N
ATOM	1124	CA ASN	74	58.389	84.222	173.898	1.00	0.00	C
ATOM	1125	C ASN	74	58.275	83.332	172.649	1.00	0.00	C
ATOM	1126	O ASN	74	59.147	83.351	171.787	1.00	0.00	O
ATOM	1127	CB ASN	74	58.324	85.719	173.539	1.00	0.00	C
ATOM	1128	CG ASN	74	58.633	86.649	174.702	1.00	0.00	C
ATOM	1129	OD1 ASN	74	59.549	87.446	174.644	1.00	0.00	O
ATOM	1130	ND2 ASN	74	57.945	86.534	175.819	1.00	0.00	N
ATOM	1131	H ASN	74	60.297	84.682	174.744	1.00	0.00	H

ATOM	1132	HA	ASN	74	57.541	83.998	174.545	1.00	0.00	H
ATOM	1133	HB2	ASN	74	57.319	85.942	173.180	1.00	0.00	H
ATOM	1134	HB3	ASN	74	59.045	85.912	172.745	1.00	0.00	H
ATOM	1135	HD21	ASN	74	58.180	87.105	176.618	1.00	0.00	H
ATOM	1136	HD22	ASN	74	57.182	85.875	175.877	1.00	0.00	H
ATOM	1137	N	TYR	75	57.209	82.528	172.587	1.00	0.00	N
ATOM	1138	CA	TYR	75	56.962	81.529	171.534	1.00	0.00	C
ATOM	1139	C	TYR	75	58.024	80.413	171.376	1.00	0.00	C
ATOM	1140	O	TYR	75	57.954	79.601	170.453	1.00	0.00	O
ATOM	1141	CB	TYR	75	56.602	82.236	170.222	1.00	0.00	C
ATOM	1142	CG	TYR	75	55.390	83.143	170.341	1.00	0.00	C
ATOM	1143	CD1	TYR	75	55.575	84.544	170.304	1.00	0.00	C
ATOM	1144	CD2	TYR	75	54.100	82.611	170.549	1.00	0.00	C
ATOM	1145	CE1	TYR	75	54.474	85.406	170.455	1.00	0.00	C
ATOM	1146	CE2	TYR	75	52.990	83.472	170.687	1.00	0.00	C

ATOM	1147	CZ	TYR	75	53.179	84.869	170.632	1.00	0.00	C
ATOM	1148	OH	TYR	75	52.120	85.709	170.769	1.00	0.00	O
ATOM	1149	H	TYR	75	56.519	82.612	173.320	1.00	0.00	H
ATOM	1150	HA	TYR	75	56.104	80.948	171.871	1.00	0.00	H
ATOM	1151	HB2	TYR	75	57.455	82.838	169.908	1.00	0.00	H
ATOM	1152	HB3	TYR	75	56.394	81.478	169.466	1.00	0.00	H
ATOM	1153	HD1	TYR	75	56.564	84.953	170.159	1.00	0.00	H
ATOM	1154	HD2	TYR	75	53.961	81.541	170.603	1.00	0.00	H
ATOM	1155	HE1	TYR	75	54.618	86.476	170.436	1.00	0.00	H
ATOM	1156	HE2	TYR	75	52.001	83.063	170.834	1.00	0.00	H
ATOM	1157	HH	TYR	75	51.273	85.276	170.900	1.00	0.00	H
ATOM	1158	N	GLY	76	58.970	80.311	172.324	1.00	0.00	N
ATOM	1159	CA	GLY	76	60.074	79.356	172.270	1.00	0.00	C
ATOM	1160	C	GLY	76	59.628	77.889	172.329	1.00	0.00	C
ATOM	1161	O	GLY	76	60.259	77.047	171.687	1.00	0.00	O
ATOM	1162	H	GLY	76	58.915	80.930	173.120	1.00	0.00	H

ATOM	1163	HA2 GLY	76	60.618	79.512	171.339	1.00	0.00	H
ATOM	1164	HA3 GLY	76	60.736	79.548	173.114	1.00	0.00	H
ATOM	1165	N TRP	77	58.465	77.590	172.918	1.00	0.00	N
ATOM	1166	CA TRP	77	57.877	76.249	172.904	1.00	0.00	C
ATOM	1167	C TRP	77	57.458	75.779	171.504	1.00	0.00	C
ATOM	1168	O TRP	77	57.775	74.645	171.150	1.00	0.00	O
ATOM	1169	CB TRP	77	56.704	76.142	173.892	1.00	0.00	C
ATOM	1170	CG TRP	77	55.551	77.081	173.694	1.00	0.00	C
ATOM	1171	CD1 TRP	77	55.457	78.333	174.209	1.00	0.00	C
ATOM	1172	CD2 TRP	77	54.409	76.946	172.788	1.00	0.00	C
ATOM	1173	NE1 TRP	77	54.304	78.940	173.747	1.00	0.00	N
ATOM	1174	CE2 TRP	77	53.626	78.138	172.856	1.00	0.00	C
ATOM	1175	CE3 TRP	77	53.931	75.919	171.940	1.00	0.00	C
ATOM	1176	CZ2 TRP	77	52.438	78.304	172.124	1.00	0.00	C
ATOM	1177	CZ3 TRP	77	52.741	76.071	171.204	1.00	0.00	C

ATOM	1178	CH2 TRP	77	51.993	77.258	171.297	1.00	0.00	C
ATOM	1179	H TRP	77	57.967	78.327	173.397	1.00	0.00	H
ATOM	1180	HA TRP	77	58.669	75.575	173.228	1.00	0.00	H
ATOM	1181	HB2 TRP	77	56.314	75.126	173.829	1.00	0.00	H
ATOM	1182	HB3 TRP	77	57.101	76.317	174.892	1.00	0.00	H
ATOM	1183	HD1 TRP	77	56.174	78.786	174.878	1.00	0.00	H
ATOM	1184	HE1 TRP	77	53.996	79.860	174.029	1.00	0.00	H
ATOM	1185	HE3 TRP	77	54.491	74.999	171.856	1.00	0.00	H
ATOM	1186	HZ2 TRP	77	51.875	79.223	172.196	1.00	0.00	H
ATOM	1187	HZ3 TRP	77	52.400	75.271	170.564	1.00	0.00	H
ATOM	1188	HH2 TRP	77	51.078	77.366	170.734	1.00	0.00	H
ATOM	1189	N ILE	78	56.841	76.633	170.675	1.00	0.00	N
ATOM	1190	CA ILE	78	56.528	76.242	169.290	1.00	0.00	C
ATOM	1191	C ILE	78	57.816	76.029	168.513	1.00	0.00	C
ATOM	1192	O ILE	78	57.950	75.003	167.870	1.00	0.00	O
ATOM	1193	CB ILE	78	55.608	77.198	168.482	1.00	0.00	C

ATOM	1194	CG1	ILE	78	54.985	78.401	169.223	1.00	0.00	C
ATOM	1195	CG2	ILE	78	54.527	76.372	167.761	1.00	0.00	C
ATOM	1196	CD1	ILE	78	54.728	79.566	168.253	1.00	0.00	C
ATOM	1197	H	ILE	78	56.588	77.554	171.004	1.00	0.00	H
ATOM	1198	HA	ILE	78	55.949	75.326	169.403	1.00	0.00	H
ATOM	1199	HB	ILE	78	56.284	77.689	167.782	1.00	0.00	H
ATOM	1200	HG12	ILE	78	54.040	78.094	169.671	1.00	0.00	H
ATOM	1201	HG13	ILE	78	55.668	78.732	170.005	1.00	0.00	H
ATOM	1202	HG21	ILE	78	55.003	75.603	167.153	1.00	0.00	H
ATOM	1203	HG22	ILE	78	53.877	75.901	168.499	1.00	0.00	H
ATOM	1204	HG23	ILE	78	53.936	77.027	167.121	1.00	0.00	H
ATOM	1205	HD11	ILE	78	55.671	79.882	167.807	1.00	0.00	H
ATOM	1206	HD12	ILE	78	54.045	79.241	167.468	1.00	0.00	H
ATOM	1207	HD13	ILE	78	54.286	80.401	168.797	1.00	0.00	H
ATOM	1208	N	ILE	79	58.799	76.936	168.640	1.00	0.00	N

ATOM	1209	CA	ILE	79	60.088	76.828	167.947	1.00	0.00	C
ATOM	1210	C	ILE	79	60.799	75.509	168.310	1.00	0.00	C
ATOM	1211	O	ILE	79	61.227	74.785	167.409	1.00	0.00	O
ATOM	1212	CB	ILE	79	60.956	78.079	168.226	1.00	0.00	C
ATOM	1213	CG1	ILE	79	60.270	79.360	167.680	1.00	0.00	C
ATOM	1214	CG2	ILE	79	62.364	77.944	167.600	1.00	0.00	C
ATOM	1215	CD1	ILE	79	60.905	80.669	168.178	1.00	0.00	C
ATOM	1216	H	ILE	79	58.643	77.732	169.242	1.00	0.00	H
ATOM	1217	HA	ILE	79	59.914	76.796	166.871	1.00	0.00	H
ATOM	1218	HB	ILE	79	61.063	78.160	169.308	1.00	0.00	H
ATOM	1219	HG12	ILE	79	60.328	79.343	166.592	1.00	0.00	H
ATOM	1220	HG13	ILE	79	59.225	79.347	167.988	1.00	0.00	H
ATOM	1221	HG21	ILE	79	62.852	77.052	167.993	1.00	0.00	H
ATOM	1222	HG22	ILE	79	62.274	77.862	166.517	1.00	0.00	H
ATOM	1223	HG23	ILE	79	62.958	78.823	167.849	1.00	0.00	H
ATOM	1224	HD11	ILE	79	60.835	80.716	169.265	1.00	0.00	H

ATOM	1225	HD12	ILE	79	61.953	80.701	167.879	1.00	0.00	H
ATOM	1226	HD13	ILE	79	60.377	81.518	167.743	1.00	0.00	H
ATOM	1227	N	ARG	80	60.782	75.120	169.596	1.00	0.00	N
ATOM	1228	CA	ARG	80	61.254	73.809	170.071	1.00	0.00	C
ATOM	1229	C	ARG	80	60.498	72.679	169.390	1.00	0.00	C
ATOM	1230	O	ARG	80	61.107	71.837	168.728	1.00	0.00	O
ATOM	1231	CB	ARG	80	61.158	73.743	171.615	1.00	0.00	C
ATOM	1232	CG	ARG	80	62.058	72.658	172.241	1.00	0.00	C
ATOM	1233	CD	ARG	80	61.394	71.265	172.155	1.00	0.00	C
ATOM	1234	NE	ARG	80	62.390	70.301	172.649	1.00	0.00	N
ATOM	1235	CZ	ARG	80	62.407	69.693	173.825	1.00	0.00	C
ATOM	1236	NH1	ARG	80	61.583	70.004	174.800	1.00	0.00	N
ATOM	1237	NH2	ARG	80	63.264	68.740	174.033	1.00	0.00	N1+
ATOM	1238	H	ARG	80	60.422	75.769	170.281	1.00	0.00	H
ATOM	1239	HA	ARG	80	62.303	73.684	169.801	1.00	0.00	H

ATOM	1240	HB2 ARG	80	61.451	74.711	172.021	1.00	0.00	H
ATOM	1241	HB3 ARG	80	60.124	73.533	171.888	1.00	0.00	H
ATOM	1242	HG2 ARG	80	62.235	72.904	173.288	1.00	0.00	H
ATOM	1243	HG3 ARG	80	63.008	72.633	171.708	1.00	0.00	H
ATOM	1244	HD2 ARG	80	61.128	71.037	171.123	1.00	0.00	H
ATOM	1245	HD3 ARG	80	60.499	71.235	172.776	1.00	0.00	H
ATOM	1246	HE ARG	80	63.147	70.078	172.019	1.00	0.00	H
ATOM	1247	HH11 ARG	80	60.904	70.740	174.672	1.00	0.00	H
ATOM	1248	HH12 ARG	80	61.629	69.507	175.678	1.00	0.00	H
ATOM	1249	HH21 ARG	80	63.907	68.471	173.302	1.00	0.00	H
ATOM	1250	HH22 ARG	80	63.288	68.268	174.926	1.00	0.00	H
ATOM	1251	N TYR	81	59.172	72.651	169.500	1.00	0.00	N
ATOM	1252	CA TYR	81	58.399	71.524	168.984	1.00	0.00	C
ATOM	1253	C TYR	81	58.388	71.408	167.458	1.00	0.00	C
ATOM	1254	O TYR	81	58.363	70.290	166.941	1.00	0.00	O
ATOM	1255	CB TYR	81	57.001	71.473	169.618	1.00	0.00	C

ATOM	1256	CG	TYR	81	57.016	71.249	171.123	1.00	0.00	C
ATOM	1257	CD1	TYR	81	57.778	70.211	171.702	1.00	0.00	C
ATOM	1258	CD2	TYR	81	56.283	72.123	171.951	1.00	0.00	C
ATOM	1259	CE1	TYR	81	57.859	70.091	173.102	1.00	0.00	C
ATOM	1260	CE2	TYR	81	56.349	71.999	173.348	1.00	0.00	C
ATOM	1261	CZ	TYR	81	57.159	70.996	173.930	1.00	0.00	C
ATOM	1262	OH	TYR	81	57.267	70.895	175.282	1.00	0.00	O
ATOM	1263	H	TYR	81	58.693	73.420	169.947	1.00	0.00	H
ATOM	1264	HA	TYR	81	58.927	70.623	169.298	1.00	0.00	H
ATOM	1265	HB2	TYR	81	56.498	72.419	169.416	1.00	0.00	H
ATOM	1266	HB3	TYR	81	56.443	70.659	169.155	1.00	0.00	H
ATOM	1267	HD1	TYR	81	58.300	69.508	171.070	1.00	0.00	H
ATOM	1268	HD2	TYR	81	55.667	72.892	171.509	1.00	0.00	H
ATOM	1269	HE1	TYR	81	58.456	69.307	173.543	1.00	0.00	H
ATOM	1270	HE2	TYR	81	55.782	72.669	173.978	1.00	0.00	H

ATOM	1271	HH	TYR	81	56.762	71.543	175.779	1.00	0.00	H
ATOM	1272	N	LEU	82	58.491	72.545	166.764	1.00	0.00	N
ATOM	1273	CA	LEU	82	58.690	72.693	165.323	1.00	0.00	C
ATOM	1274	C	LEU	82	60.030	72.098	164.883	1.00	0.00	C
ATOM	1275	O	LEU	82	60.064	71.354	163.918	1.00	0.00	O
ATOM	1276	CB	LEU	82	58.553	74.195	164.973	1.00	0.00	C
ATOM	1277	CG	LEU	82	58.306	74.513	163.494	1.00	0.00	C
ATOM	1278	CD1	LEU	82	56.873	74.120	163.156	1.00	0.00	C
ATOM	1279	CD2	LEU	82	58.340	76.017	163.204	1.00	0.00	C
ATOM	1280	H	LEU	82	58.424	73.401	167.296	1.00	0.00	H
ATOM	1281	HA	LEU	82	57.932	72.134	164.774	1.00	0.00	H
ATOM	1282	HB2	LEU	82	57.718	74.598	165.546	1.00	0.00	H
ATOM	1283	HB3	LEU	82	59.474	74.694	165.274	1.00	0.00	H
ATOM	1284	HG	LEU	82	59.077	73.987	162.930	1.00	0.00	H
ATOM	1285	HD11	LEU	82	56.731	73.057	163.353	1.00	0.00	H
ATOM	1286	HD12	LEU	82	56.183	74.699	163.770	1.00	0.00	H

ATOM	1287	HD13	LEU	82	56.679	74.323	162.103	1.00	0.00	H
ATOM	1288	HD21	LEU	82	57.560	76.516	163.780	1.00	0.00	H
ATOM	1289	HD22	LEU	82	59.313	76.419	163.485	1.00	0.00	H
ATOM	1290	HD23	LEU	82	58.170	76.186	162.141	1.00	0.00	H
ATOM	1291	N	HIS	83	61.082	72.280	165.675	1.00	0.00	N
ATOM	1292	CA	HIS	83	62.398	71.674	165.420	1.00	0.00	C
ATOM	1293	C	HIS	83	62.438	70.154	165.724	1.00	0.00	C
ATOM	1294	O	HIS	83	62.983	69.356	164.951	1.00	0.00	O
ATOM	1295	CB	HIS	83	63.413	72.413	166.302	1.00	0.00	C
ATOM	1296	CG	HIS	83	64.788	72.125	165.758	1.00	0.00	C
ATOM	1297	ND1	HIS	83	65.195	72.563	164.551	1.00	0.00	N
ATOM	1298	CD2	HIS	83	65.786	71.440	166.354	1.00	0.00	C
ATOM	1299	CE1	HIS	83	66.406	72.159	164.411	1.00	0.00	C
ATOM	1300	NE2	HIS	83	66.834	71.468	165.486	1.00	0.00	N
ATOM	1301	H	HIS	83	60.972	72.863	166.492	1.00	0.00	H

ATOM	1302	HA	HIS	83	62.631	71.771	164.360	1.00	0.00	H
ATOM	1303	HB2	HIS	83	63.339	72.059	167.330	1.00	0.00	H
ATOM	1304	HB3	HIS	83	63.219	73.485	166.272	1.00	0.00	H
ATOM	1305	HD2	HIS	83	65.759	70.965	167.324	1.00	0.00	H
ATOM	1306	HE1	HIS	83	67.010	72.350	163.536	1.00	0.00	H
ATOM	1307	N	ALA	84	61.798	69.731	166.825	1.00	0.00	N
ATOM	1308	CA	ALA	84	61.701	68.330	167.236	1.00	0.00	C
ATOM	1309	C	ALA	84	60.889	67.495	166.232	1.00	0.00	C
ATOM	1310	O	ALA	84	61.373	66.508	165.673	1.00	0.00	O
ATOM	1311	CB	ALA	84	61.063	68.269	168.635	1.00	0.00	C
ATOM	1312	H	ALA	84	61.354	70.426	167.409	1.00	0.00	H
ATOM	1313	HA	ALA	84	62.703	67.902	167.264	1.00	0.00	H
ATOM	1314	HB1	ALA	84	61.675	68.834	169.338	1.00	0.00	H
ATOM	1315	HB2	ALA	84	60.062	68.699	168.597	1.00	0.00	H
ATOM	1316	HB3	ALA	84	61.000	67.231	168.961	1.00	0.00	H
ATOM	1317	N	ASN	85	59.661	67.928	165.940	1.00	0.00	N

ATOM	1318	CA	ASN	85	58.769	67.241	165.010	1.00	0.00	C
ATOM	1319	C	ASN	85	59.153	67.489	163.547	1.00	0.00	C
ATOM	1320	O	ASN	85	58.996	66.588	162.722	1.00	0.00	O
ATOM	1321	CB	ASN	85	57.323	67.643	165.308	1.00	0.00	C
ATOM	1322	CG	ASN	85	56.858	67.070	166.637	1.00	0.00	C
ATOM	1323	OD1	ASN	85	56.403	65.939	166.696	1.00	0.00	O
ATOM	1324	ND2	ASN	85	56.900	67.828	167.718	1.00	0.00	N
ATOM	1325	H	ASN	85	59.332	68.773	166.384	1.00	0.00	H
ATOM	1326	HA	ASN	85	58.870	66.166	165.158	1.00	0.00	H
ATOM	1327	HB2	ASN	85	56.678	67.267	164.513	1.00	0.00	H
ATOM	1328	HB3	ASN	85	57.257	68.730	165.346	1.00	0.00	H
ATOM	1329	HD21	ASN	85	56.555	67.472	168.598	1.00	0.00	H
ATOM	1330	HD22	ASN	85	57.277	68.763	167.665	1.00	0.00	H
ATOM	1331	N	GLY	86	59.770	68.636	163.238	1.00	0.00	N
ATOM	1332	CA	GLY	86	60.374	68.913	161.938	1.00	0.00	C

ATOM	1333	C	GLY	86	61.499	67.934	161.602	1.00	0.00	C
ATOM	1334	O	GLY	86	61.566	67.483	160.460	1.00	0.00	O
ATOM	1335	H	GLY	86	59.821	69.353	163.947	1.00	0.00	H
ATOM	1336	HA2	GLY	86	59.604	68.839	161.170	1.00	0.00	H
ATOM	1337	HA3	GLY	86	60.781	69.924	161.948	1.00	0.00	H
ATOM	1338	N	ALA	87	62.240	67.431	162.600	1.00	0.00	N
ATOM	1339	CA	ALA	87	63.180	66.332	162.400	1.00	0.00	C
ATOM	1340	C	ALA	87	62.483	65.008	162.041	1.00	0.00	C
ATOM	1341	O	ALA	87	62.822	64.402	161.019	1.00	0.00	O
ATOM	1342	CB	ALA	87	64.072	66.178	163.636	1.00	0.00	C
ATOM	1343	H	ALA	87	62.144	67.827	163.524	1.00	0.00	H
ATOM	1344	HA	ALA	87	63.802	66.584	161.541	1.00	0.00	H
ATOM	1345	HB1	ALA	87	64.596	67.115	163.825	1.00	0.00	H
ATOM	1346	HB2	ALA	87	63.456	65.926	164.499	1.00	0.00	H
ATOM	1347	HB3	ALA	87	64.798	65.384	163.463	1.00	0.00	H
ATOM	1348	N	SER	88	61.431	64.606	162.773	1.00	0.00	N

ATOM	1349	CA	SER	88	60.635	63.413	162.420	1.00	0.00	C
ATOM	1350	C	SER	88	60.001	63.517	161.036	1.00	0.00	C
ATOM	1351	O	SER	88	60.065	62.575	160.247	1.00	0.00	O
ATOM	1352	CB	SER	88	59.534	63.165	163.443	1.00	0.00	C
ATOM	1353	OG	SER	88	60.097	62.767	164.677	1.00	0.00	O
ATOM	1354	H	SER	88	61.176	65.138	163.593	1.00	0.00	H
ATOM	1355	HA	SER	88	61.336	62.579	162.416	1.00	0.00	H
ATOM	1356	HB2	SER	88	58.873	62.379	163.078	1.00	0.00	H
ATOM	1357	HB3	SER	88	58.962	64.082	163.587	1.00	0.00	H
ATOM	1358	HG	SER	88	60.593	61.960	164.523	1.00	0.00	H
ATOM	1359	N	MET	89	59.472	64.689	160.694	1.00	0.00	N
ATOM	1360	CA	MET	89	58.944	64.955	159.365	1.00	0.00	C
ATOM	1361	C	MET	89	59.992	64.830	158.253	1.00	0.00	C
ATOM	1362	O	MET	89	59.690	64.258	157.205	1.00	0.00	O
ATOM	1363	CB	MET	89	58.367	66.362	159.311	1.00	0.00	C

ATOM	1364	CG	MET	89	56.984	66.552	159.959	1.00	0.00	C
ATOM	1365	SD	MET	89	55.679	65.339	159.577	1.00	0.00	S
ATOM	1366	CE	MET	89	55.509	65.525	157.781	1.00	0.00	C
ATOM	1367	H	MET	89	59.436	65.424	161.386	1.00	0.00	H
ATOM	1368	HA	MET	89	58.179	64.198	159.190	1.00	0.00	H
ATOM	1369	HB2	MET	89	58.286	66.649	158.262	1.00	0.00	H
ATOM	1370	HB3	MET	89	59.066	67.028	159.817	1.00	0.00	H
ATOM	1371	HG2	MET	89	56.615	67.531	159.652	1.00	0.00	H
ATOM	1372	HG3	MET	89	57.129	66.541	161.039	1.00	0.00	H
ATOM	1373	HE1	MET	89	55.222	66.550	157.547	1.00	0.00	H
ATOM	1374	HE2	MET	89	56.460	65.296	157.300	1.00	0.00	H
ATOM	1375	HE3	MET	89	54.743	64.841	157.416	1.00	0.00	H
ATOM	1376	N	PHE	90	61.219	65.326	158.487	1.00	0.00	N
ATOM	1377	CA	PHE	90	62.326	65.258	157.528	1.00	0.00	C
ATOM	1378	C	PHE	90	62.525	63.758	157.220	1.00	0.00	C
ATOM	1379	O	PHE	90	62.611	63.413	156.045	1.00	0.00	O

ATOM	1380	CB	PHE	90	63.591	65.824	158.199	1.00	0.00	C
ATOM	1381	CG	PHE	90	64.671	66.383	157.285	1.00	0.00	C
ATOM	1382	CD1	PHE	90	65.134	65.664	156.160	1.00	0.00	C
ATOM	1383	CD2	PHE	90	65.269	67.614	157.609	1.00	0.00	C
ATOM	1384	CE1	PHE	90	66.200	66.176	155.391	1.00	0.00	C
ATOM	1385	CE2	PHE	90	66.341	68.114	156.853	1.00	0.00	C
ATOM	1386	CZ	PHE	90	66.805	67.398	155.736	1.00	0.00	C
ATOM	1387	H	PHE	90	61.389	65.772	159.377	1.00	0.00	H
ATOM	1388	HA	PHE	90	62.127	65.827	156.620	1.00	0.00	H
ATOM	1389	HB2	PHE	90	63.277	66.627	158.866	1.00	0.00	H
ATOM	1390	HB3	PHE	90	64.039	65.021	158.784	1.00	0.00	H
ATOM	1391	HD1	PHE	90	64.673	64.725	155.890	1.00	0.00	H
ATOM	1392	HD2	PHE	90	64.899	68.182	158.450	1.00	0.00	H
ATOM	1393	HE1	PHE	90	66.554	65.626	154.532	1.00	0.00	H
ATOM	1394	HE2	PHE	90	66.809	69.048	157.129	1.00	0.00	H

ATOM	1395	HZ	PHE	90	67.622	67.784	155.145	1.00	0.00	H
ATOM	1396	N	PHE	91	62.451	62.858	158.217	1.00	0.00	N
ATOM	1397	CA	PHE	91	62.516	61.409	157.991	1.00	0.00	C
ATOM	1398	C	PHE	91	61.358	60.745	157.247	1.00	0.00	C
ATOM	1399	O	PHE	91	61.601	59.929	156.358	1.00	0.00	O
ATOM	1400	CB	PHE	91	62.950	60.644	159.247	1.00	0.00	C
ATOM	1401	CG	PHE	91	64.428	60.807	159.520	1.00	0.00	C
ATOM	1402	CD1	PHE	91	64.851	61.855	160.353	1.00	0.00	C
ATOM	1403	CD2	PHE	91	65.378	59.990	158.882	1.00	0.00	C
ATOM	1404	CE1	PHE	91	66.216	62.120	160.516	1.00	0.00	C
ATOM	1405	CE2	PHE	91	66.753	60.234	159.075	1.00	0.00	C
ATOM	1406	CZ	PHE	91	67.171	61.306	159.883	1.00	0.00	C
ATOM	1407	H	PHE	91	62.346	63.194	159.164	1.00	0.00	H
ATOM	1408	HA	PHE	91	63.309	61.327	157.248	1.00	0.00	H
ATOM	1409	HB2	PHE	91	62.389	61.022	160.102	1.00	0.00	H
ATOM	1410	HB3	PHE	91	62.731	59.585	159.109	1.00	0.00	H

ATOM	1411	HD1 PHE	91	64.120	62.459	160.870	1.00	0.00	H
ATOM	1412	HD2 PHE	91	65.056	59.179	158.246	1.00	0.00	H
ATOM	1413	HE1 PHE	91	66.535	62.950	161.128	1.00	0.00	H
ATOM	1414	HE2 PHE	91	67.486	59.597	158.602	1.00	0.00	H
ATOM	1415	HZ PHE	91	68.224	61.504	160.017	1.00	0.00	H
ATOM	1416	N ILE	92	60.112	61.160	157.510	1.00	0.00	N
ATOM	1417	CA ILE	92	58.939	60.729	156.719	1.00	0.00	C
ATOM	1418	C ILE	92	59.127	61.071	155.238	1.00	0.00	C
ATOM	1419	O ILE	92	59.036	60.187	154.388	1.00	0.00	O
ATOM	1420	CB ILE	92	57.638	61.349	157.292	1.00	0.00	C
ATOM	1421	CG1 ILE	92	57.260	60.764	158.669	1.00	0.00	C
ATOM	1422	CG2 ILE	92	56.444	61.222	156.324	1.00	0.00	C
ATOM	1423	CD1 ILE	92	56.849	59.267	158.661	1.00	0.00	C
ATOM	1424	H ILE	92	59.967	61.795	158.282	1.00	0.00	H
ATOM	1425	HA ILE	92	58.848	59.645	156.793	1.00	0.00	H

ATOM	1426	HB	ILE	92	57.860	62.408	157.421	1.00	0.00	H
ATOM	1427	HG12	ILE	92	58.120	60.874	159.330	1.00	0.00	H
ATOM	1428	HG13	ILE	92	56.423	61.341	159.062	1.00	0.00	H
ATOM	1429	HG21	ILE	92	56.704	61.670	155.365	1.00	0.00	H
ATOM	1430	HG22	ILE	92	56.204	60.169	156.180	1.00	0.00	H
ATOM	1431	HG23	ILE	92	55.580	61.738	156.743	1.00	0.00	H
ATOM	1432	HD11	ILE	92	55.971	59.135	158.029	1.00	0.00	H
ATOM	1433	HD12	ILE	92	57.671	58.667	158.271	1.00	0.00	H
ATOM	1434	HD13	ILE	92	56.617	58.948	159.677	1.00	0.00	H
ATOM	1435	N	CYS	93	59.509	62.315	154.934	1.00	0.00	N
ATOM	1436	CA	CYS	93	59.807	62.735	153.568	1.00	0.00	C
ATOM	1437	C	CYS	93	60.998	61.960	152.973	1.00	0.00	C
ATOM	1438	O	CYS	93	60.902	61.482	151.845	1.00	0.00	O
ATOM	1439	CB	CYS	93	60.029	64.253	153.556	1.00	0.00	C
ATOM	1440	SG	CYS	93	58.481	65.109	153.989	1.00	0.00	S
ATOM	1441	H	CYS	93	59.595	62.992	155.679	1.00	0.00	H

ATOM	1442	HA	CYS	93	58.959	62.499	152.925	1.00	0.00	H
ATOM	1443	HB2	CYS	93	60.348	64.564	152.561	1.00	0.00	H
ATOM	1444	HB3	CYS	93	60.800	64.511	154.282	1.00	0.00	H
ATOM	1445	HG	CYS	93	57.534	64.794	153.101	1.00	0.00	H
ATOM	1446	N	LEU	94	62.065	61.740	153.755	1.00	0.00	N
ATOM	1447	CA	LEU	94	63.266	60.999	153.345	1.00	0.00	C
ATOM	1448	C	LEU	94	62.934	59.556	152.937	1.00	0.00	C
ATOM	1449	O	LEU	94	63.350	59.116	151.871	1.00	0.00	O
ATOM	1450	CB	LEU	94	64.293	61.056	154.503	1.00	0.00	C
ATOM	1451	CG	LEU	94	65.792	61.038	154.145	1.00	0.00	C
ATOM	1452	CD1	LEU	94	66.213	62.216	153.262	1.00	0.00	C
ATOM	1453	CD2	LEU	94	66.588	61.166	155.451	1.00	0.00	C
ATOM	1454	H	LEU	94	62.041	62.111	154.694	1.00	0.00	H
ATOM	1455	HA	LEU	94	63.698	61.463	152.458	1.00	0.00	H
ATOM	1456	HB2	LEU	94	64.104	61.975	155.059	1.00	0.00	H

ATOM	1457	HB3	LEU	94	64.103	60.197	155.146	1.00	0.00	H
ATOM	1458	HG	LEU	94	65.984	60.112	153.603	1.00	0.00	H
ATOM	1459	HD11	LEU	94	65.636	62.201	152.337	1.00	0.00	H
ATOM	1460	HD12	LEU	94	66.027	63.151	153.791	1.00	0.00	H
ATOM	1461	HD13	LEU	94	67.275	62.135	153.030	1.00	0.00	H
ATOM	1462	HD21	LEU	94	66.344	62.112	155.934	1.00	0.00	H
ATOM	1463	HD22	LEU	94	66.330	60.342	156.116	1.00	0.00	H
ATOM	1464	HD23	LEU	94	67.655	61.135	155.231	1.00	0.00	H
ATOM	1465	N	PHE	95	62.098	58.862	153.714	1.00	0.00	N
ATOM	1466	CA	PHE	95	61.700	57.484	153.434	1.00	0.00	C
ATOM	1467	C	PHE	95	60.795	57.309	152.205	1.00	0.00	C
ATOM	1468	O	PHE	95	61.065	56.446	151.366	1.00	0.00	O
ATOM	1469	CB	PHE	95	61.105	56.831	154.693	1.00	0.00	C
ATOM	1470	CG	PHE	95	62.054	56.670	155.873	1.00	0.00	C
ATOM	1471	CD1	PHE	95	63.372	56.188	155.702	1.00	0.00	C
ATOM	1472	CD2	PHE	95	61.602	57.013	157.164	1.00	0.00	C

ATOM	1473	CE1	PHE	95	64.240	56.090	156.806	1.00	0.00	C
ATOM	1474	CE2	PHE	95	62.462	56.901	158.271	1.00	0.00	C
ATOM	1475	CZ	PHE	95	63.784	56.447	158.088	1.00	0.00	C
ATOM	1476	H	PHE	95	61.722	59.312	154.536	1.00	0.00	H
ATOM	1477	HA	PHE	95	62.615	56.958	153.161	1.00	0.00	H
ATOM	1478	HB2	PHE	95	60.265	57.444	155.021	1.00	0.00	H
ATOM	1479	HB3	PHE	95	60.745	55.840	154.416	1.00	0.00	H
ATOM	1480	HD1	PHE	95	63.714	55.894	154.721	1.00	0.00	H
ATOM	1481	HD2	PHE	95	60.590	57.364	157.303	1.00	0.00	H
ATOM	1482	HE1	PHE	95	65.253	55.742	156.669	1.00	0.00	H
ATOM	1483	HE2	PHE	95	62.111	57.162	159.258	1.00	0.00	H
ATOM	1484	HZ	PHE	95	64.449	56.373	158.935	1.00	0.00	H
ATOM	1485	N	LEU	96	59.814	58.204	152.025	1.00	0.00	N
ATOM	1486	CA	LEU	96	59.008	58.287	150.797	1.00	0.00	C
ATOM	1487	C	LEU	96	59.892	58.601	149.568	1.00	0.00	C

ATOM	1488	O	LEU	96	59.747	57.986	148.515	1.00	0.00	O
ATOM	1489	CB	LEU	96	57.952	59.393	150.945	1.00	0.00	C
ATOM	1490	CG	LEU	96	56.863	59.223	152.046	1.00	0.00	C
ATOM	1491	CD1	LEU	96	56.283	60.609	152.228	1.00	0.00	C
ATOM	1492	CD2	LEU	96	55.585	58.425	151.656	1.00	0.00	C
ATOM	1493	H	LEU	96	59.618	58.856	152.771	1.00	0.00	H
ATOM	1494	HA	LEU	96	58.526	57.321	150.645	1.00	0.00	H
ATOM	1495	HB2	LEU	96	58.483	60.322	151.155	1.00	0.00	H
ATOM	1496	HB3	LEU	96	57.436	59.478	149.989	1.00	0.00	H
ATOM	1497	HG	LEU	96	57.362	58.717	152.873	1.00	0.00	H
ATOM	1498	HD11	LEU	96	57.076	61.301	152.511	1.00	0.00	H
ATOM	1499	HD12	LEU	96	55.830	60.939	151.293	1.00	0.00	H
ATOM	1500	HD13	LEU	96	55.525	60.586	153.011	1.00	0.00	H
ATOM	1501	HD21	LEU	96	55.082	58.927	150.829	1.00	0.00	H
ATOM	1502	HD22	LEU	96	55.865	57.416	151.353	1.00	0.00	H
ATOM	1503	HD23	LEU	96	54.913	58.373	152.513	1.00	0.00	H

ATOM	1504	N	HIS	97	60.837	59.531	149.703	1.00	0.00	N
ATOM	1505	CA	HIS	97	61.757	59.972	148.644	1.00	0.00	C
ATOM	1506	C	HIS	97	62.677	58.846	148.130	1.00	0.00	C
ATOM	1507	O	HIS	97	62.788	58.628	146.916	1.00	0.00	O
ATOM	1508	CB	HIS	97	62.585	61.124	149.231	1.00	0.00	C
ATOM	1509	CG	HIS	97	63.350	61.859	148.158	1.00	0.00	C
ATOM	1510	ND1	HIS	97	62.764	62.786	147.384	1.00	0.00	N
ATOM	1511	CD2	HIS	97	64.672	61.824	147.916	1.00	0.00	C
ATOM	1512	CE1	HIS	97	63.726	63.346	146.731	1.00	0.00	C
ATOM	1513	NE2	HIS	97	64.945	62.806	147.007	1.00	0.00	N
ATOM	1514	H	HIS	97	60.929	59.969	150.608	1.00	0.00	H
ATOM	1515	HA	HIS	97	61.180	60.288	147.775	1.00	0.00	H
ATOM	1516	HB2	HIS	97	63.292	60.719	149.955	1.00	0.00	H
ATOM	1517	HB3	HIS	97	61.914	61.824	149.730	1.00	0.00	H
ATOM	1518	HD2	HIS	97	65.386	61.145	148.358	1.00	0.00	H

ATOM	1519	HE1	HIS	97	63.579	64.160	146.036	1.00	0.00	H
ATOM	1520	N	ILE	98	63.275	58.071	149.059	1.00	0.00	N
ATOM	1521	CA	ILE	98	64.063	56.864	148.776	1.00	0.00	C
ATOM	1522	C	ILE	98	63.176	55.787	148.141	1.00	0.00	C
ATOM	1523	O	ILE	98	63.510	55.261	147.076	1.00	0.00	O
ATOM	1524	CB	ILE	98	64.736	56.317	150.065	1.00	0.00	C
ATOM	1525	CG1	ILE	98	65.732	57.310	150.703	1.00	0.00	C
ATOM	1526	CG2	ILE	98	65.477	54.989	149.794	1.00	0.00	C
ATOM	1527	CD1	ILE	98	65.911	57.110	152.221	1.00	0.00	C
ATOM	1528	H	ILE	98	63.173	58.343	150.026	1.00	0.00	H
ATOM	1529	HA	ILE	98	64.851	57.133	148.073	1.00	0.00	H
ATOM	1530	HB	ILE	98	63.917	56.157	150.766	1.00	0.00	H
ATOM	1531	HG12	ILE	98	66.702	57.184	150.221	1.00	0.00	H
ATOM	1532	HG13	ILE	98	65.369	58.323	150.529	1.00	0.00	H
ATOM	1533	HG21	ILE	98	64.782	54.265	149.369	1.00	0.00	H
ATOM	1534	HG22	ILE	98	66.292	55.165	149.092	1.00	0.00	H

ATOM	1535	HG23	ILE	98	65.880	54.600	150.729	1.00	0.00	H
ATOM	1536	HD11	ILE	98	64.954	57.254	152.722	1.00	0.00	H
ATOM	1537	HD12	ILE	98	66.274	56.101	152.414	1.00	0.00	H
ATOM	1538	HD13	ILE	98	66.632	57.834	152.600	1.00	0.00	H
ATOM	1539	N	GLY	99	62.022	55.497	148.754	1.00	0.00	N
ATOM	1540	CA	GLY	99	61.091	54.455	148.307	1.00	0.00	C
ATOM	1541	C	GLY	99	60.547	54.696	146.899	1.00	0.00	C
ATOM	1542	O	GLY	99	60.600	53.791	146.065	1.00	0.00	O
ATOM	1543	H	GLY	99	61.777	56.029	149.576	1.00	0.00	H
ATOM	1544	HA2	GLY	99	61.612	53.498	148.318	1.00	0.00	H
ATOM	1545	HA3	GLY	99	60.251	54.420	149.001	1.00	0.00	H
ATOM	1546	N	ARG	100	60.221	55.956	146.565	1.00	0.00	N
ATOM	1547	CA	ARG	100	59.925	56.413	145.197	1.00	0.00	C
ATOM	1548	C	ARG	100	61.055	56.037	144.247	1.00	0.00	C
ATOM	1549	O	ARG	100	60.798	55.376	143.247	1.00	0.00	O

ATOM	1550	CB	ARG	100	59.616	57.924	145.212	1.00	0.00	C
ATOM	1551	CG	ARG	100	59.262	58.613	143.867	1.00	0.00	C
ATOM	1552	CD	ARG	100	60.469	58.801	142.910	1.00	0.00	C
ATOM	1553	NE	ARG	100	61.442	59.619	143.654	1.00	0.00	N
ATOM	1554	CZ	ARG	100	61.475	60.952	143.638	1.00	0.00	C
ATOM	1555	NH1	ARG	100	60.796	61.659	142.778	1.00	0.00	N
ATOM	1556	NH2	ARG	100	62.221	61.613	144.507	1.00	0.00	N1+
ATOM	1557	H	ARG	100	60.176	56.640	147.307	1.00	0.00	H
ATOM	1558	HA	ARG	100	59.036	55.907	144.820	1.00	0.00	H
ATOM	1559	HB2	ARG	100	58.772	58.075	145.885	1.00	0.00	H
ATOM	1560	HB3	ARG	100	60.494	58.430	145.613	1.00	0.00	H
ATOM	1561	HG2	ARG	100	58.844	59.595	144.086	1.00	0.00	H
ATOM	1562	HG3	ARG	100	58.514	58.005	143.358	1.00	0.00	H
ATOM	1563	HD2	ARG	100	60.157	59.315	142.001	1.00	0.00	H
ATOM	1564	HD3	ARG	100	60.903	57.835	142.651	1.00	0.00	H
ATOM	1565	HE	ARG	100	62.131	59.138	144.214	1.00	0.00	H

ATOM	1566	HH11	ARG	100	60.854	62.667	142.795	1.00	0.00	H
ATOM	1567	HH12	ARG	100	60.212	61.198	142.095	1.00	0.00	H
ATOM	1568	HH21	ARG	100	62.770	61.108	145.188	1.00	0.00	H
ATOM	1569	HH22	ARG	100	62.242	62.623	144.490	1.00	0.00	H
ATOM	1570	N	GLY	101	62.296	56.423	144.552	1.00	0.00	N
ATOM	1571	CA	GLY	101	63.441	56.156	143.669	1.00	0.00	C
ATOM	1572	C	GLY	101	63.742	54.666	143.476	1.00	0.00	C
ATOM	1573	O	GLY	101	64.172	54.271	142.391	1.00	0.00	O
ATOM	1574	H	GLY	101	62.454	56.916	145.419	1.00	0.00	H
ATOM	1575	HA2	GLY	101	63.231	56.593	142.693	1.00	0.00	H
ATOM	1576	HA3	GLY	101	64.323	56.632	144.098	1.00	0.00	H
ATOM	1577	N	LEU	102	63.432	53.827	144.471	1.00	0.00	N
ATOM	1578	CA	LEU	102	63.490	52.364	144.389	1.00	0.00	C
ATOM	1579	C	LEU	102	62.363	51.781	143.504	1.00	0.00	C
ATOM	1580	O	LEU	102	62.631	50.978	142.615	1.00	0.00	O

ATOM	1581	CB	LEU	102	63.462	51.796	145.827	1.00	0.00	C
ATOM	1582	CG	LEU	102	64.347	50.558	146.048	1.00	0.00	C
ATOM	1583	CD1	LEU	102	64.341	50.181	147.536	1.00	0.00	C
ATOM	1584	CD2	LEU	102	63.901	49.331	145.248	1.00	0.00	C
ATOM	1585	H	LEU	102	63.135	54.233	145.347	1.00	0.00	H
ATOM	1586	HA	LEU	102	64.418	52.065	143.901	1.00	0.00	H
ATOM	1587	HB2	LEU	102	63.797	52.579	146.507	1.00	0.00	H
ATOM	1588	HB3	LEU	102	62.433	51.524	146.064	1.00	0.00	H
ATOM	1589	HG	LEU	102	65.343	50.835	145.701	1.00	0.00	H
ATOM	1590	HD11	LEU	102	64.684	51.030	148.127	1.00	0.00	H
ATOM	1591	HD12	LEU	102	63.329	49.912	147.839	1.00	0.00	H
ATOM	1592	HD13	LEU	102	65.006	49.333	147.699	1.00	0.00	H
ATOM	1593	HD21	LEU	102	62.905	49.028	145.572	1.00	0.00	H
ATOM	1594	HD22	LEU	102	63.878	49.578	144.187	1.00	0.00	H
ATOM	1595	HD23	LEU	102	64.602	48.513	145.416	1.00	0.00	H
ATOM	1596	N	TYR	103	61.118	52.218	143.702	1.00	0.00	N

ATOM	1597	CA	TYR	103	59.950	51.725	142.956	1.00	0.00	C
ATOM	1598	C	TYR	103	59.967	52.176	141.487	1.00	0.00	C
ATOM	1599	O	TYR	103	59.629	51.416	140.576	1.00	0.00	O
ATOM	1600	CB	TYR	103	58.669	52.201	143.656	1.00	0.00	C
ATOM	1601	CG	TYR	103	57.386	51.697	143.014	1.00	0.00	C
ATOM	1602	CD1	TYR	103	56.755	50.566	143.555	1.00	0.00	C
ATOM	1603	CD2	TYR	103	56.838	52.335	141.878	1.00	0.00	C
ATOM	1604	CE1	TYR	103	55.562	50.081	142.992	1.00	0.00	C
ATOM	1605	CE2	TYR	103	55.655	51.844	141.293	1.00	0.00	C
ATOM	1606	CZ	TYR	103	55.009	50.722	141.860	1.00	0.00	C
ATOM	1607	OH	TYR	103	53.855	50.246	141.328	1.00	0.00	O
ATOM	1608	H	TYR	103	60.969	52.928	144.405	1.00	0.00	H
ATOM	1609	HA	TYR	103	59.984	50.636	142.948	1.00	0.00	H
ATOM	1610	HB2	TYR	103	58.694	51.854	144.689	1.00	0.00	H
ATOM	1611	HB3	TYR	103	58.655	53.291	143.639	1.00	0.00	H

ATOM	1612	HD1 TYR	103	57.188	50.066	144.408	1.00	0.00	H
ATOM	1613	HD2 TYR	103	57.328	53.201	141.458	1.00	0.00	H
ATOM	1614	HE1 TYR	103	55.070	49.222	143.423	1.00	0.00	H
ATOM	1615	HE2 TYR	103	55.244	52.322	140.416	1.00	0.00	H
ATOM	1616	HH TYR	103	53.534	50.726	140.561	1.00	0.00	H
ATOM	1617	N TYR	104	60.405	53.410	141.235	1.00	0.00	N
ATOM	1618	CA TYR	104	60.412	54.011	139.906	1.00	0.00	C
ATOM	1619	C TYR	104	61.677	53.805	139.061	1.00	0.00	C
ATOM	1620	O TYR	104	61.646	53.992	137.848	1.00	0.00	O
ATOM	1621	CB TYR	104	59.846	55.437	139.956	1.00	0.00	C
ATOM	1622	CG TYR	104	58.359	55.478	140.286	1.00	0.00	C
ATOM	1623	CD1 TYR	104	57.921	55.877	141.565	1.00	0.00	C
ATOM	1624	CD2 TYR	104	57.409	55.085	139.325	1.00	0.00	C
ATOM	1625	CE1 TYR	104	56.546	55.912	141.875	1.00	0.00	C
ATOM	1626	CE2 TYR	104	56.034	55.077	139.640	1.00	0.00	C
ATOM	1627	CZ TYR	104	55.598	55.508	140.912	1.00	0.00	C

ATOM	1628	OH	TYR	104	54.271	55.545	141.206	1.00	0.00	O
ATOM	1629	H	TYR	104	60.752	53.960	142.008	1.00	0.00	H
ATOM	1630	HA	TYR	104	59.720	53.423	139.302	1.00	0.00	H
ATOM	1631	HB2	TYR	104	60.386	55.998	140.718	1.00	0.00	H
ATOM	1632	HB3	TYR	104	59.999	55.905	138.984	1.00	0.00	H
ATOM	1633	HD1	TYR	104	58.646	56.159	142.315	1.00	0.00	H
ATOM	1634	HD2	TYR	104	57.735	54.787	138.339	1.00	0.00	H
ATOM	1635	HE1	TYR	104	56.219	56.248	142.848	1.00	0.00	H
ATOM	1636	HE2	TYR	104	55.314	54.741	138.908	1.00	0.00	H
ATOM	1637	HH	TYR	104	53.690	55.262	140.496	1.00	0.00	H
ATOM	1638	N	GLY	105	62.751	53.289	139.675	1.00	0.00	N
ATOM	1639	CA	GLY	105	64.036	53.047	139.012	1.00	0.00	C
ATOM	1640	C	GLY	105	64.870	54.315	138.833	1.00	0.00	C
ATOM	1641	O	GLY	105	65.838	54.288	138.080	1.00	0.00	O
ATOM	1642	H	GLY	105	62.670	53.053	140.654	1.00	0.00	H

ATOM	1643	HA2	GLY	105	64.607	52.339	139.612	1.00	0.00	H
ATOM	1644	HA3	GLY	105	63.843	52.618	138.029	1.00	0.00	H
ATOM	1645	N	SER	106	64.558	55.409	139.528	1.00	0.00	N
ATOM	1646	CA	SER	106	65.258	56.696	139.504	1.00	0.00	C
ATOM	1647	C	SER	106	66.714	56.570	139.953	1.00	0.00	C
ATOM	1648	O	SER	106	67.542	57.413	139.617	1.00	0.00	O
ATOM	1649	CB	SER	106	64.582	57.682	140.469	1.00	0.00	C
ATOM	1650	OG	SER	106	63.181	57.695	140.299	1.00	0.00	O
ATOM	1651	H	SER	106	63.754	55.344	140.136	1.00	0.00	H
ATOM	1652	HA	SER	106	65.220	57.047	138.473	1.00	0.00	H
ATOM	1653	HB2	SER	106	64.971	58.683	140.282	1.00	0.00	H
ATOM	1654	HB3	SER	106	64.812	57.389	141.493	1.00	0.00	H
ATOM	1655	HG	SER	106	63.001	57.955	139.393	1.00	0.00	H
ATOM	1656	N	PHE	107	67.061	55.488	140.671	1.00	0.00	N
ATOM	1657	CA	PHE	107	68.431	55.183	141.084	1.00	0.00	C
ATOM	1658	C	PHE	107	69.458	55.063	139.944	1.00	0.00	C

ATOM	1659	O	PHE	107	70.662	55.198	140.165	1.00	0.00	O
ATOM	1660	CB	PHE	107	68.456	53.945	141.993	1.00	0.00	C
ATOM	1661	CG	PHE	107	67.810	52.698	141.421	1.00	0.00	C
ATOM	1662	CD1	PHE	107	68.435	52.002	140.367	1.00	0.00	C
ATOM	1663	CD2	PHE	107	66.605	52.218	141.958	1.00	0.00	C
ATOM	1664	CE1	PHE	107	67.829	50.860	139.826	1.00	0.00	C
ATOM	1665	CE2	PHE	107	66.014	51.052	141.442	1.00	0.00	C
ATOM	1666	CZ	PHE	107	66.625	50.374	140.373	1.00	0.00	C
ATOM	1667	H	PHE	107	66.330	54.845	140.942	1.00	0.00	H
ATOM	1668	HA	PHE	107	68.759	56.059	141.643	1.00	0.00	H
ATOM	1669	HB2	PHE	107	69.498	53.712	142.213	1.00	0.00	H
ATOM	1670	HB3	PHE	107	67.937	54.197	142.918	1.00	0.00	H
ATOM	1671	HD1	PHE	107	69.380	52.348	139.976	1.00	0.00	H
ATOM	1672	HD2	PHE	107	66.130	52.747	142.771	1.00	0.00	H
ATOM	1673	HE1	PHE	107	68.285	50.352	138.989	1.00	0.00	H

ATOM	1674	HE2 PHE	107	65.093	50.678	141.865	1.00	0.00	H
ATOM	1675	HZ PHE	107	66.171	49.480	139.971	1.00	0.00	H
ATOM	1676	N LEU	108	68.977	54.836	138.712	1.00	0.00	N
ATOM	1677	CA LEU	108	69.778	54.769	137.491	1.00	0.00	C
ATOM	1678	C LEU	108	70.544	56.076	137.181	1.00	0.00	C
ATOM	1679	O LEU	108	71.570	56.036	136.505	1.00	0.00	O
ATOM	1680	CB LEU	108	68.818	54.339	136.359	1.00	0.00	C
ATOM	1681	CG LEU	108	69.470	54.059	134.991	1.00	0.00	C
ATOM	1682	CD1 LEU	108	70.478	52.909	135.059	1.00	0.00	C
ATOM	1683	CD2 LEU	108	68.375	53.680	133.988	1.00	0.00	C
ATOM	1684	H LEU	108	67.980	54.700	138.621	1.00	0.00	H
ATOM	1685	HA LEU	108	70.580	54.040	137.607	1.00	0.00	H
ATOM	1686	HB2 LEU	108	68.311	53.429	136.679	1.00	0.00	H
ATOM	1687	HB3 LEU	108	68.085	55.134	136.223	1.00	0.00	H
ATOM	1688	HG LEU	108	69.999	54.961	134.684	1.00	0.00	H
ATOM	1689	HD11 LEU	108	71.256	53.150	135.783	1.00	0.00	H

ATOM	1690	HD12	LEU	108	69.967	51.996	135.365	1.00	0.00	H
ATOM	1691	HD13	LEU	108	70.929	52.762	134.077	1.00	0.00	H
ATOM	1692	HD21	LEU	108	67.869	52.776	134.327	1.00	0.00	H
ATOM	1693	HD22	LEU	108	67.654	54.494	133.913	1.00	0.00	H
ATOM	1694	HD23	LEU	108	68.824	53.501	133.011	1.00	0.00	H
ATOM	1695	N	TYR	109	70.118	57.217	137.741	1.00	0.00	N
ATOM	1696	CA	TYR	109	70.912	58.453	137.753	1.00	0.00	C
ATOM	1697	C	TYR	109	72.002	58.346	138.834	1.00	0.00	C
ATOM	1698	O	TYR	109	71.816	58.796	139.968	1.00	0.00	O
ATOM	1699	CB	TYR	109	70.001	59.671	137.981	1.00	0.00	C
ATOM	1700	CG	TYR	109	68.859	59.869	137.002	1.00	0.00	C
ATOM	1701	CD1	TYR	109	69.036	59.658	135.617	1.00	0.00	C
ATOM	1702	CD2	TYR	109	67.615	60.329	137.483	1.00	0.00	C
ATOM	1703	CE1	TYR	109	67.967	59.892	134.728	1.00	0.00	C
ATOM	1704	CE2	TYR	109	66.561	60.608	136.596	1.00	0.00	C

ATOM	1705	CZ	TYR	109	66.734	60.383	135.214	1.00	0.00	C
ATOM	1706	OH	TYR	109	65.713	60.657	134.358	1.00	0.00	O
ATOM	1707	H	TYR	109	69.207	57.227	138.176	1.00	0.00	H
ATOM	1708	HA	TYR	109	71.399	58.589	136.787	1.00	0.00	H
ATOM	1709	HB2	TYR	109	69.568	59.576	138.977	1.00	0.00	H
ATOM	1710	HB3	TYR	109	70.627	60.562	137.941	1.00	0.00	H
ATOM	1711	HD1	TYR	109	69.989	59.318	135.239	1.00	0.00	H
ATOM	1712	HD2	TYR	109	67.471	60.468	138.544	1.00	0.00	H
ATOM	1713	HE1	TYR	109	68.091	59.696	133.673	1.00	0.00	H
ATOM	1714	HE2	TYR	109	65.624	60.993	136.970	1.00	0.00	H
ATOM	1715	HH	TYR	109	64.917	60.997	134.772	1.00	0.00	H
ATOM	1716	N	SER	110	73.099	57.656	138.497	1.00	0.00	N
ATOM	1717	CA	SER	110	74.028	57.053	139.461	1.00	0.00	C
ATOM	1718	C	SER	110	74.581	58.084	140.466	1.00	0.00	C
ATOM	1719	O	SER	110	74.400	57.908	141.678	1.00	0.00	O
ATOM	1720	CB	SER	110	75.181	56.369	138.720	1.00	0.00	C

ATOM	1721	OG	SER	110	75.964	55.596	139.607	1.00	0.00	O
ATOM	1722	H	SER	110	73.301	57.543	137.514	1.00	0.00	H
ATOM	1723	HA	SER	110	73.468	56.313	140.033	1.00	0.00	H
ATOM	1724	HB2	SER	110	75.811	57.130	138.260	1.00	0.00	H
ATOM	1725	HB3	SER	110	74.772	55.719	137.946	1.00	0.00	H
ATOM	1726	HG	SER	110	76.313	56.188	140.278	1.00	0.00	H
ATOM	1727	N	GLU	111	75.174	59.196	140.029	1.00	0.00	N
ATOM	1728	CA	GLU	111	75.662	60.223	140.942	1.00	0.00	C
ATOM	1729	C	GLU	111	74.547	60.897	141.765	1.00	0.00	C
ATOM	1730	O	GLU	111	74.718	61.048	142.969	1.00	0.00	O
ATOM	1731	CB	GLU	111	76.423	61.294	140.166	1.00	0.00	C
ATOM	1732	CG	GLU	111	77.585	60.770	139.311	1.00	0.00	C
ATOM	1733	CD	GLU	111	77.145	60.521	137.844	1.00	0.00	C
ATOM	1734	OE1	GLU	111	76.140	59.763	137.671	1.00	0.00	O
ATOM	1735	OE2	GLU	111	77.809	61.044	136.910	1.00	0.00	O1-

ATOM	1736	H	GLU	111	75.289	59.331	139.035	1.00	0.00	H
ATOM	1737	HA	GLU	111	76.318	59.713	141.647	1.00	0.00	H
ATOM	1738	HB2	GLU	111	75.718	61.799	139.506	1.00	0.00	H
ATOM	1739	HB3	GLU	111	76.826	62.009	140.883	1.00	0.00	H
ATOM	1740	HG2	GLU	111	77.944	59.833	139.737	1.00	0.00	H
ATOM	1741	HG3	GLU	111	78.390	61.505	139.319	1.00	0.00	H
ATOM	1742	N	THR	112	73.376	61.199	141.191	1.00	0.00	N
ATOM	1743	CA	THR	112	72.207	61.744	141.917	1.00	0.00	C
ATOM	1744	C	THR	112	71.765	60.794	143.034	1.00	0.00	C
ATOM	1745	O	THR	112	71.578	61.207	144.176	1.00	0.00	O
ATOM	1746	CB	THR	112	71.036	61.975	140.939	1.00	0.00	C
ATOM	1747	OG1	THR	112	71.458	62.731	139.827	1.00	0.00	O
ATOM	1748	CG2	THR	112	69.860	62.730	141.553	1.00	0.00	C
ATOM	1749	H	THR	112	73.284	61.045	140.197	1.00	0.00	H
ATOM	1750	HA	THR	112	72.499	62.694	142.364	1.00	0.00	H
ATOM	1751	HB	THR	112	70.709	60.974	140.658	1.00	0.00	H

ATOM	1752	HG21 THR	112	69.508	62.198	142.437	1.00	0.00	H
ATOM	1753	HG22 THR	112	70.180	63.733	141.836	1.00	0.00	H
ATOM	1754	HG23 THR	112	69.052	62.799	140.825	1.00	0.00	H
ATOM	1755	HG1 THR	112	71.729	63.594	140.149	1.00	0.00	H
ATOM	1756	N TRP	113	71.699	59.492	142.754	1.00	0.00	N
ATOM	1757	CA TRP	113	71.407	58.476	143.767	1.00	0.00	C
ATOM	1758	C TRP	113	72.526	58.336	144.816	1.00	0.00	C
ATOM	1759	O TRP	113	72.261	58.282	146.012	1.00	0.00	O
ATOM	1760	CB TRP	113	71.093	57.174	143.035	1.00	0.00	C
ATOM	1761	CG TRP	113	70.743	56.001	143.902	1.00	0.00	C
ATOM	1762	CD1 TRP	113	71.630	55.108	144.396	1.00	0.00	C
ATOM	1763	CD2 TRP	113	69.478	55.709	144.581	1.00	0.00	C
ATOM	1764	NE1 TRP	113	70.973	54.202	145.202	1.00	0.00	N
ATOM	1765	CE2 TRP	113	69.643	54.522	145.357	1.00	0.00	C
ATOM	1766	CE3 TRP	113	68.190	56.289	144.582	1.00	0.00	C

ATOM	1767	CZ2 TRP	113	68.586	53.924	146.063	1.00	0.00	C
ATOM	1768	CZ3 TRP	113	67.121	55.706	145.297	1.00	0.00	C
ATOM	1769	CH2 TRP	113	67.313	54.520	146.024	1.00	0.00	C
ATOM	1770	H TRP	113	71.857	59.194	141.802	1.00	0.00	H
ATOM	1771	HA TRP	113	70.541	58.777	144.357	1.00	0.00	H
ATOM	1772	HB2 TRP	113	70.250	57.360	142.370	1.00	0.00	H
ATOM	1773	HB3 TRP	113	71.969	56.903	142.445	1.00	0.00	H
ATOM	1774	HD1 TRP	113	72.690	55.105	144.191	1.00	0.00	H
ATOM	1775	HE1 TRP	113	71.415	53.400	145.628	1.00	0.00	H
ATOM	1776	HE3 TRP	113	68.019	57.198	144.024	1.00	0.00	H
ATOM	1777	HZ2 TRP	113	68.749	53.018	146.628	1.00	0.00	H
ATOM	1778	HZ3 TRP	113	66.149	56.176	145.285	1.00	0.00	H
ATOM	1779	HH2 TRP	113	66.486	54.067	146.551	1.00	0.00	H
ATOM	1780	N ASN	114	73.794	58.354	144.396	1.00	0.00	N
ATOM	1781	CA ASN	114	74.935	58.224	145.306	1.00	0.00	C
ATOM	1782	C ASN	114	75.129	59.452	146.221	1.00	0.00	C

ATOM	1783	O	ASN	114	75.296	59.282	147.429	1.00	0.00	O
ATOM	1784	CB	ASN	114	76.187	57.838	144.502	1.00	0.00	C
ATOM	1785	CG	ASN	114	76.234	56.341	144.191	1.00	0.00	C
ATOM	1786	OD1	ASN	114	77.091	55.620	144.699	1.00	0.00	O
ATOM	1787	ND2	ASN	114	75.324	55.821	143.363	1.00	0.00	N
ATOM	1788	H	ASN	114	73.974	58.462	143.408	1.00	0.00	H
ATOM	1789	HA	ASN	114	74.729	57.417	146.009	1.00	0.00	H
ATOM	1790	HB2	ASN	114	77.072	58.105	145.080	1.00	0.00	H
ATOM	1791	HB3	ASN	114	76.186	58.392	143.563	1.00	0.00	H
ATOM	1792	HD21	ASN	114	74.621	56.416	142.947	1.00	0.00	H
ATOM	1793	HD22	ASN	114	75.339	54.833	143.153	1.00	0.00	H
ATOM	1794	N	ILE	115	74.942	60.673	145.710	1.00	0.00	N
ATOM	1795	CA	ILE	115	74.857	61.901	146.517	1.00	0.00	C
ATOM	1796	C	ILE	115	73.639	61.859	147.459	1.00	0.00	C
ATOM	1797	O	ILE	115	73.771	62.228	148.625	1.00	0.00	O

ATOM	1798	CB	ILE	115	74.844	63.148	145.596	1.00	0.00	C
ATOM	1799	CG1	ILE	115	76.170	63.344	144.820	1.00	0.00	C
ATOM	1800	CG2	ILE	115	74.530	64.432	146.395	1.00	0.00	C
ATOM	1801	CD1	ILE	115	77.420	63.596	145.678	1.00	0.00	C
ATOM	1802	H	ILE	115	74.854	60.758	144.707	1.00	0.00	H
ATOM	1803	HA	ILE	115	75.742	61.969	147.150	1.00	0.00	H
ATOM	1804	HB	ILE	115	74.054	62.965	144.867	1.00	0.00	H
ATOM	1805	HG12	ILE	115	76.347	62.446	144.229	1.00	0.00	H
ATOM	1806	HG13	ILE	115	76.044	64.198	144.155	1.00	0.00	H
ATOM	1807	HG21	ILE	115	73.580	64.313	146.915	1.00	0.00	H
ATOM	1808	HG22	ILE	115	75.322	64.610	147.122	1.00	0.00	H
ATOM	1809	HG23	ILE	115	74.466	65.279	145.712	1.00	0.00	H
ATOM	1810	HD11	ILE	115	77.285	64.510	146.257	1.00	0.00	H
ATOM	1811	HD12	ILE	115	77.571	62.756	146.355	1.00	0.00	H
ATOM	1812	HD13	ILE	115	78.290	63.702	145.030	1.00	0.00	H
ATOM	1813	N	GLY	116	72.509	61.292	147.014	1.00	0.00	N

ATOM	1814	CA	GLY	116	71.347	61.028	147.867	1.00	0.00	C
ATOM	1815	C	GLY	116	71.645	60.129	149.076	1.00	0.00	C
ATOM	1816	O	GLY	116	71.196	60.429	150.182	1.00	0.00	O
ATOM	1817	H	GLY	116	72.456	61.033	146.039	1.00	0.00	H
ATOM	1818	HA2	GLY	116	70.969	61.982	148.235	1.00	0.00	H
ATOM	1819	HA3	GLY	116	70.581	60.544	147.261	1.00	0.00	H
ATOM	1820	N	ILE	117	72.488	59.100	148.924	1.00	0.00	N
ATOM	1821	CA	ILE	117	72.937	58.260	150.052	1.00	0.00	C
ATOM	1822	C	ILE	117	73.827	59.055	151.018	1.00	0.00	C
ATOM	1823	O	ILE	117	73.649	58.961	152.230	1.00	0.00	O
ATOM	1824	CB	ILE	117	73.648	56.978	149.560	1.00	0.00	C
ATOM	1825	CG1	ILE	117	72.684	56.114	148.721	1.00	0.00	C
ATOM	1826	CG2	ILE	117	74.196	56.148	150.743	1.00	0.00	C
ATOM	1827	CD1	ILE	117	73.421	55.070	147.880	1.00	0.00	C
ATOM	1828	H	ILE	117	72.832	58.889	147.998	1.00	0.00	H

ATOM	1829	HA	ILE	117	72.048	57.948	150.600	1.00	0.00	H
ATOM	1830	HB	ILE	117	74.489	57.287	148.939	1.00	0.00	H
ATOM	1831	HG12	ILE	117	71.998	55.600	149.394	1.00	0.00	H
ATOM	1832	HG13	ILE	117	72.119	56.766	148.054	1.00	0.00	H
ATOM	1833	HG21	ILE	117	74.887	56.758	151.325	1.00	0.00	H
ATOM	1834	HG22	ILE	117	73.369	55.829	151.377	1.00	0.00	H
ATOM	1835	HG23	ILE	117	74.719	55.271	150.360	1.00	0.00	H
ATOM	1836	HD11	ILE	117	74.100	55.572	147.191	1.00	0.00	H
ATOM	1837	HD12	ILE	117	73.990	54.411	148.536	1.00	0.00	H
ATOM	1838	HD13	ILE	117	72.698	54.483	147.314	1.00	0.00	H
ATOM	1839	N	ILE	118	74.733	59.900	150.504	1.00	0.00	N
ATOM	1840	CA	ILE	118	75.554	60.791	151.338	1.00	0.00	C
ATOM	1841	C	ILE	118	74.679	61.796	152.110	1.00	0.00	C
ATOM	1842	O	ILE	118	74.901	62.008	153.302	1.00	0.00	O
ATOM	1843	CB	ILE	118	76.633	61.495	150.475	1.00	0.00	C
ATOM	1844	CG1	ILE	118	77.598	60.503	149.780	1.00	0.00	C

ATOM	1845	CG2	ILE	118	77.450	62.505	151.302	1.00	0.00	C
ATOM	1846	CD1	ILE	118	78.485	59.663	150.710	1.00	0.00	C
ATOM	1847	H	ILE	118	74.857	59.926	149.502	1.00	0.00	H
ATOM	1848	HA	ILE	118	76.071	60.189	152.085	1.00	0.00	H
ATOM	1849	HB	ILE	118	76.081	62.024	149.698	1.00	0.00	H
ATOM	1850	HG12	ILE	118	76.998	59.817	149.183	1.00	0.00	H
ATOM	1851	HG13	ILE	118	78.252	61.078	149.125	1.00	0.00	H
ATOM	1852	HG21	ILE	118	76.776	63.227	151.762	1.00	0.00	H
ATOM	1853	HG22	ILE	118	78.002	61.976	152.079	1.00	0.00	H
ATOM	1854	HG23	ILE	118	78.151	63.026	150.650	1.00	0.00	H
ATOM	1855	HD11	ILE	118	79.123	60.323	151.298	1.00	0.00	H
ATOM	1856	HD12	ILE	118	77.856	59.075	151.379	1.00	0.00	H
ATOM	1857	HD13	ILE	118	79.106	58.994	150.114	1.00	0.00	H
ATOM	1858	N	LEU	119	73.620	62.327	151.486	1.00	0.00	N
ATOM	1859	CA	LEU	119	72.623	63.181	152.146	1.00	0.00	C

ATOM	1860	C	LEU	119	71.849	62.431	153.240	1.00	0.00	C
ATOM	1861	O	LEU	119	71.722	62.955	154.350	1.00	0.00	O
ATOM	1862	CB	LEU	119	71.670	63.755	151.081	1.00	0.00	C
ATOM	1863	CG	LEU	119	72.299	64.879	150.240	1.00	0.00	C
ATOM	1864	CD1	LEU	119	71.418	65.176	149.024	1.00	0.00	C
ATOM	1865	CD2	LEU	119	72.435	66.159	151.068	1.00	0.00	C
ATOM	1866	H	LEU	119	73.499	62.129	150.503	1.00	0.00	H
ATOM	1867	HA	LEU	119	73.143	63.997	152.648	1.00	0.00	H
ATOM	1868	HB2	LEU	119	71.373	62.947	150.412	1.00	0.00	H
ATOM	1869	HB3	LEU	119	70.788	64.152	151.584	1.00	0.00	H
ATOM	1870	HG	LEU	119	73.286	64.549	149.917	1.00	0.00	H
ATOM	1871	HD11	LEU	119	71.313	64.273	148.422	1.00	0.00	H
ATOM	1872	HD12	LEU	119	70.435	65.505	149.360	1.00	0.00	H
ATOM	1873	HD13	LEU	119	71.879	65.961	148.425	1.00	0.00	H
ATOM	1874	HD21	LEU	119	71.448	66.489	151.391	1.00	0.00	H
ATOM	1875	HD22	LEU	119	73.056	65.962	151.942	1.00	0.00	H

ATOM	1876	HD23	LEU	119	72.898	66.937	150.461	1.00	0.00	H
ATOM	1877	N	LEU	120	71.417	61.185	152.985	1.00	0.00	N
ATOM	1878	CA	LEU	120	70.770	60.330	153.990	1.00	0.00	C
ATOM	1879	C	LEU	120	71.675	60.086	155.210	1.00	0.00	C
ATOM	1880	O	LEU	120	71.257	60.335	156.341	1.00	0.00	O
ATOM	1881	CB	LEU	120	70.339	59.008	153.313	1.00	0.00	C
ATOM	1882	CG	LEU	120	69.827	57.906	154.263	1.00	0.00	C
ATOM	1883	CD1	LEU	120	68.586	58.342	155.045	1.00	0.00	C
ATOM	1884	CD2	LEU	120	69.471	56.672	153.430	1.00	0.00	C
ATOM	1885	H	LEU	120	71.544	60.816	152.053	1.00	0.00	H
ATOM	1886	HA	LEU	120	69.887	60.838	154.377	1.00	0.00	H
ATOM	1887	HB2	LEU	120	69.542	59.238	152.606	1.00	0.00	H
ATOM	1888	HB3	LEU	120	71.199	58.612	152.774	1.00	0.00	H
ATOM	1889	HG	LEU	120	70.617	57.692	154.983	1.00	0.00	H
ATOM	1890	HD11	LEU	120	68.818	59.233	155.628	1.00	0.00	H

ATOM	1891	HD12	LEU	120	67.777	58.564	154.349	1.00	0.00	H
ATOM	1892	HD13	LEU	120	68.278	57.539	155.715	1.00	0.00	H
ATOM	1893	HD21	LEU	120	68.680	56.926	152.724	1.00	0.00	H
ATOM	1894	HD22	LEU	120	70.352	56.336	152.883	1.00	0.00	H
ATOM	1895	HD23	LEU	120	69.127	55.875	154.090	1.00	0.00	H
ATOM	1896	N	LEU	121	72.931	59.694	154.973	1.00	0.00	N
ATOM	1897	CA	LEU	121	73.944	59.489	156.016	1.00	0.00	C
ATOM	1898	C	LEU	121	74.218	60.771	156.812	1.00	0.00	C
ATOM	1899	O	LEU	121	74.288	60.719	158.040	1.00	0.00	O
ATOM	1900	CB	LEU	121	75.246	58.992	155.355	1.00	0.00	C
ATOM	1901	CG	LEU	121	75.189	57.545	154.835	1.00	0.00	C
ATOM	1902	CD1	LEU	121	76.407	57.263	153.953	1.00	0.00	C
ATOM	1903	CD2	LEU	121	75.201	56.546	155.991	1.00	0.00	C
ATOM	1904	H	LEU	121	73.201	59.528	154.014	1.00	0.00	H
ATOM	1905	HA	LEU	121	73.566	58.747	156.720	1.00	0.00	H
ATOM	1906	HB2	LEU	121	75.471	59.647	154.513	1.00	0.00	H

ATOM	1907	HB3 LEU	121	76.047	59.057	156.091	1.00	0.00	H
ATOM	1908	HG LEU	121	74.266	57.433	154.266	1.00	0.00	H
ATOM	1909	HD11 LEU	121	76.421	57.963	153.118	1.00	0.00	H
ATOM	1910	HD12 LEU	121	77.317	57.381	154.541	1.00	0.00	H
ATOM	1911	HD13 LEU	121	76.351	56.244	153.571	1.00	0.00	H
ATOM	1912	HD21 LEU	121	76.124	56.659	156.559	1.00	0.00	H
ATOM	1913	HD22 LEU	121	74.348	56.734	156.643	1.00	0.00	H
ATOM	1914	HD23 LEU	121	75.139	55.532	155.596	1.00	0.00	H
ATOM	1915	N ALA	122	74.317	61.920	156.139	1.00	0.00	N
ATOM	1916	CA ALA	122	74.573	63.204	156.783	1.00	0.00	C
ATOM	1917	C ALA	122	73.386	63.668	157.646	1.00	0.00	C
ATOM	1918	O ALA	122	73.587	63.984	158.821	1.00	0.00	O
ATOM	1919	CB ALA	122	74.962	64.226	155.711	1.00	0.00	C
ATOM	1920	H ALA	122	74.209	61.899	155.135	1.00	0.00	H
ATOM	1921	HA ALA	122	75.404	63.097	157.480	1.00	0.00	H

ATOM	1922	HB1 ALA	122	75.848	63.877	155.181	1.00	0.00	H
ATOM	1923	HB2 ALA	122	74.139	64.344	155.006	1.00	0.00	H
ATOM	1924	HB3 ALA	122	75.175	65.185	156.183	1.00	0.00	H
ATOM	1925	N THR	123	72.145	63.607	157.140	1.00	0.00	N
ATOM	1926	CA THR	123	70.949	63.943	157.937	1.00	0.00	C
ATOM	1927	C THR	123	70.723	62.944	159.078	1.00	0.00	C
ATOM	1928	O THR	123	70.358	63.370	160.172	1.00	0.00	O
ATOM	1929	CB THR	123	69.695	64.058	157.051	1.00	0.00	C
ATOM	1930	OG1 THR	123	69.914	64.995	156.016	1.00	0.00	O
ATOM	1931	CG2 THR	123	68.475	64.554	157.827	1.00	0.00	C
ATOM	1932	H THR	123	72.025	63.321	156.179	1.00	0.00	H
ATOM	1933	HA THR	123	71.133	64.919	158.387	1.00	0.00	H
ATOM	1934	HB THR	123	69.507	63.056	156.666	1.00	0.00	H
ATOM	1935	HG21 THR	123	68.276	63.880	158.660	1.00	0.00	H
ATOM	1936	HG22 THR	123	68.670	65.556	158.209	1.00	0.00	H
ATOM	1937	HG23 THR	123	67.609	64.579	157.165	1.00	0.00	H

ATOM	1938	HG1 THR	123	70.072	65.849	156.426	1.00	0.00	H
ATOM	1939	N MET	124	71.054	61.659	158.901	1.00	0.00	N
ATOM	1940	CA MET	124	71.132	60.688	160.001	1.00	0.00	C
ATOM	1941	C MET	124	72.148	61.091	161.079	1.00	0.00	C
ATOM	1942	O MET	124	71.773	61.183	162.245	1.00	0.00	O
ATOM	1943	CB MET	124	71.442	59.283	159.459	1.00	0.00	C
ATOM	1944	CG MET	124	70.201	58.590	158.883	1.00	0.00	C
ATOM	1945	SD MET	124	70.505	57.083	157.900	1.00	0.00	S
ATOM	1946	CE MET	124	71.755	56.269	158.944	1.00	0.00	C
ATOM	1947	H MET	124	71.260	61.341	157.965	1.00	0.00	H
ATOM	1948	HA MET	124	70.154	60.676	160.482	1.00	0.00	H
ATOM	1949	HB2 MET	124	71.837	58.674	160.272	1.00	0.00	H
ATOM	1950	HB3 MET	124	72.191	59.369	158.672	1.00	0.00	H
ATOM	1951	HG2 MET	124	69.687	59.307	158.243	1.00	0.00	H
ATOM	1952	HG3 MET	124	69.554	58.318	159.717	1.00	0.00	H

ATOM	1953	HE1	MET	124	72.626	56.917	159.041	1.00	0.00	H
ATOM	1954	HE2	MET	124	71.334	56.076	159.931	1.00	0.00	H
ATOM	1955	HE3	MET	124	72.053	55.326	158.486	1.00	0.00	H
ATOM	1956	N	ALA	125	73.394	61.412	160.713	1.00	0.00	N
ATOM	1957	CA	ALA	125	74.418	61.841	161.666	1.00	0.00	C
ATOM	1958	C	ALA	125	74.002	63.110	162.443	1.00	0.00	C
ATOM	1959	O	ALA	125	74.086	63.127	163.676	1.00	0.00	O
ATOM	1960	CB	ALA	125	75.735	62.026	160.910	1.00	0.00	C
ATOM	1961	H	ALA	125	73.639	61.356	159.735	1.00	0.00	H
ATOM	1962	HA	ALA	125	74.546	61.072	162.428	1.00	0.00	H
ATOM	1963	HB1	ALA	125	76.017	61.086	160.436	1.00	0.00	H
ATOM	1964	HB2	ALA	125	75.611	62.795	160.147	1.00	0.00	H
ATOM	1965	HB3	ALA	125	76.515	62.329	161.608	1.00	0.00	H
ATOM	1966	N	THR	126	73.411	64.100	161.760	1.00	0.00	N
ATOM	1967	CA	THR	126	72.809	65.283	162.402	1.00	0.00	C
ATOM	1968	C	THR	126	71.663	64.907	163.346	1.00	0.00	C

ATOM	1969	O	THR	126	71.653	65.331	164.502	1.00	0.00	O
ATOM	1970	CB	THR	126	72.283	66.254	161.336	1.00	0.00	C
ATOM	1971	OG1	THR	126	73.282	66.566	160.394	1.00	0.00	O
ATOM	1972	CG2	THR	126	71.802	67.579	161.920	1.00	0.00	C
ATOM	1973	H	THR	126	73.376	64.032	160.753	1.00	0.00	H
ATOM	1974	HA	THR	126	73.592	65.759	162.991	1.00	0.00	H
ATOM	1975	HB	THR	126	71.445	65.734	160.872	1.00	0.00	H
ATOM	1976	HG21	THR	126	71.034	67.388	162.669	1.00	0.00	H
ATOM	1977	HG22	THR	126	72.641	68.098	162.384	1.00	0.00	H
ATOM	1978	HG23	THR	126	71.387	68.198	161.124	1.00	0.00	H
ATOM	1979	HG1	THR	126	73.988	67.020	160.860	1.00	0.00	H
ATOM	1980	N	ALA	127	70.699	64.085	162.915	1.00	0.00	N
ATOM	1981	CA	ALA	127	69.521	63.767	163.726	1.00	0.00	C
ATOM	1982	C	ALA	127	69.837	62.891	164.950	1.00	0.00	C
ATOM	1983	O	ALA	127	69.141	62.996	165.968	1.00	0.00	O

ATOM	1984	CB	ALA	127	68.495	63.097	162.817	1.00	0.00	C
ATOM	1985	H	ALA	127	70.787	63.669	161.999	1.00	0.00	H
ATOM	1986	HA	ALA	127	69.126	64.695	164.140	1.00	0.00	H
ATOM	1987	HB1	ALA	127	68.244	63.768	161.996	1.00	0.00	H
ATOM	1988	HB2	ALA	127	68.913	62.174	162.416	1.00	0.00	H
ATOM	1989	HB3	ALA	127	67.596	62.870	163.389	1.00	0.00	H
ATOM	1990	N	PHE	128	70.895	62.076	164.870	1.00	0.00	N
ATOM	1991	CA	PHE	128	71.517	61.460	166.036	1.00	0.00	C
ATOM	1992	C	PHE	128	72.119	62.445	167.046	1.00	0.00	C
ATOM	1993	O	PHE	128	71.696	62.485	168.203	1.00	0.00	O
ATOM	1994	CB	PHE	128	72.451	60.302	165.632	1.00	0.00	C
ATOM	1995	CG	PHE	128	73.439	59.883	166.707	1.00	0.00	C
ATOM	1996	CD1	PHE	128	74.828	60.012	166.507	1.00	0.00	C
ATOM	1997	CD2	PHE	128	72.957	59.398	167.934	1.00	0.00	C
ATOM	1998	CE1	PHE	128	75.725	59.646	167.529	1.00	0.00	C
ATOM	1999	CE2	PHE	128	73.851	59.039	168.958	1.00	0.00	C

ATOM	2000	CZ	PHE	128	75.237	59.156	168.755	1.00	0.00	C
ATOM	2001	H	PHE	128	71.281	61.878	163.958	1.00	0.00	H
ATOM	2002	HA	PHE	128	70.704	61.014	166.609	1.00	0.00	H
ATOM	2003	HB2	PHE	128	71.834	59.439	165.382	1.00	0.00	H
ATOM	2004	HB3	PHE	128	73.016	60.612	164.753	1.00	0.00	H
ATOM	2005	HD1	PHE	128	75.205	60.392	165.569	1.00	0.00	H
ATOM	2006	HD2	PHE	128	71.893	59.300	168.092	1.00	0.00	H
ATOM	2007	HE1	PHE	128	76.789	59.741	167.372	1.00	0.00	H
ATOM	2008	HE2	PHE	128	73.473	58.673	169.901	1.00	0.00	H
ATOM	2009	HZ	PHE	128	75.925	58.871	169.537	1.00	0.00	H
ATOM	2010	N	MET	129	73.022	63.318	166.579	1.00	0.00	N
ATOM	2011	CA	MET	129	73.674	64.327	167.418	1.00	0.00	C
ATOM	2012	C	MET	129	72.683	65.305	168.056	1.00	0.00	C
ATOM	2013	O	MET	129	72.772	65.562	169.266	1.00	0.00	O
ATOM	2014	CB	MET	129	74.727	65.091	166.602	1.00	0.00	C

ATOM	2015	CG	MET	129	75.976	64.236	166.368	1.00	0.00	C
ATOM	2016	SD	MET	129	77.162	65.002	165.235	1.00	0.00	S
ATOM	2017	CE	MET	129	78.600	63.943	165.540	1.00	0.00	C
ATOM	2018	H	MET	129	73.265	63.279	165.600	1.00	0.00	H
ATOM	2019	HA	MET	129	74.158	63.794	168.237	1.00	0.00	H
ATOM	2020	HB2	MET	129	75.011	65.993	167.144	1.00	0.00	H
ATOM	2021	HB3	MET	129	74.299	65.366	165.638	1.00	0.00	H
ATOM	2022	HG2	MET	129	75.667	63.278	165.950	1.00	0.00	H
ATOM	2023	HG3	MET	129	76.468	64.072	167.327	1.00	0.00	H
ATOM	2024	HE1	MET	129	78.882	64.007	166.591	1.00	0.00	H
ATOM	2025	HE2	MET	129	78.350	62.911	165.293	1.00	0.00	H
ATOM	2026	HE3	MET	129	79.433	64.274	164.919	1.00	0.00	H
ATOM	2027	N	GLY	130	71.696	65.773	167.288	1.00	0.00	N
ATOM	2028	CA	GLY	130	70.661	66.691	167.758	1.00	0.00	C
ATOM	2029	C	GLY	130	69.893	66.177	168.970	1.00	0.00	C
ATOM	2030	O	GLY	130	69.660	66.936	169.912	1.00	0.00	O

ATOM	2031	H	GLY	130	71.663	65.474	166.324	1.00	0.00	H
ATOM	2032	HA2	GLY	130	71.134	67.636	168.025	1.00	0.00	H
ATOM	2033	HA3	GLY	130	69.953	66.856	166.946	1.00	0.00	H
ATOM	2034	N	TYR	131	69.632	64.867	169.016	1.00	0.00	N
ATOM	2035	CA	TYR	131	68.854	64.263	170.093	1.00	0.00	C
ATOM	2036	C	TYR	131	69.671	64.107	171.385	1.00	0.00	C
ATOM	2037	O	TYR	131	69.093	63.947	172.455	1.00	0.00	O
ATOM	2038	CB	TYR	131	68.283	62.927	169.613	1.00	0.00	C
ATOM	2039	CG	TYR	131	67.260	62.368	170.577	1.00	0.00	C
ATOM	2040	CD1	TYR	131	67.557	61.262	171.394	1.00	0.00	C
ATOM	2041	CD2	TYR	131	66.004	63.002	170.663	1.00	0.00	C
ATOM	2042	CE1	TYR	131	66.577	60.762	172.269	1.00	0.00	C
ATOM	2043	CE2	TYR	131	65.025	62.507	171.532	1.00	0.00	C
ATOM	2044	CZ	TYR	131	65.308	61.373	172.319	1.00	0.00	C
ATOM	2045	OH	TYR	131	64.315	60.824	173.052	1.00	0.00	O

ATOM	2046	H	TYR	131	69.986	64.274	168.279	1.00	0.00	H
ATOM	2047	HA	TYR	131	68.030	64.931	170.344	1.00	0.00	H
ATOM	2048	HB2	TYR	131	67.808	63.076	168.643	1.00	0.00	H
ATOM	2049	HB3	TYR	131	69.099	62.212	169.512	1.00	0.00	H
ATOM	2050	HD1	TYR	131	68.532	60.800	171.349	1.00	0.00	H
ATOM	2051	HD2	TYR	131	65.797	63.872	170.057	1.00	0.00	H
ATOM	2052	HE1	TYR	131	66.796	59.913	172.900	1.00	0.00	H
ATOM	2053	HE2	TYR	131	64.061	62.990	171.599	1.00	0.00	H
ATOM	2054	HH	TYR	131	63.465	61.264	172.977	1.00	0.00	H
ATOM	2055	N	VAL	132	71.002	64.250	171.334	1.00	0.00	N
ATOM	2056	CA	VAL	132	71.856	64.330	172.533	1.00	0.00	C
ATOM	2057	C	VAL	132	71.757	65.681	173.254	1.00	0.00	C
ATOM	2058	O	VAL	132	71.943	65.761	174.470	1.00	0.00	O
ATOM	2059	CB	VAL	132	73.319	63.948	172.225	1.00	0.00	C
ATOM	2060	CG1	VAL	132	74.140	63.686	173.497	1.00	0.00	C
ATOM	2061	CG2	VAL	132	73.368	62.675	171.364	1.00	0.00	C

ATOM	2062	H	VAL	132	71.443	64.306	170.427	1.00	0.00	H
ATOM	2063	HA	VAL	132	71.466	63.588	173.230	1.00	0.00	H
ATOM	2064	HB	VAL	132	73.751	64.798	171.696	1.00	0.00	H
ATOM	2065	HG11	VAL	132	74.114	64.570	174.135	1.00	0.00	H
ATOM	2066	HG12	VAL	132	73.716	62.838	174.034	1.00	0.00	H
ATOM	2067	HG13	VAL	132	75.172	63.465	173.224	1.00	0.00	H
ATOM	2068	HG21	VAL	132	72.930	61.845	171.918	1.00	0.00	H
ATOM	2069	HG22	VAL	132	72.804	62.836	170.445	1.00	0.00	H
ATOM	2070	HG23	VAL	132	74.404	62.442	171.119	1.00	0.00	H
ATOM	2071	N	LEU	133	71.421	66.749	172.524	1.00	0.00	N
ATOM	2072	CA	LEU	133	71.544	68.134	172.993	1.00	0.00	C
ATOM	2073	C	LEU	133	70.608	68.555	174.149	1.00	0.00	C
ATOM	2074	O	LEU	133	71.073	69.343	174.976	1.00	0.00	O
ATOM	2075	CB	LEU	133	71.438	69.083	171.787	1.00	0.00	C
ATOM	2076	CG	LEU	133	72.409	68.741	170.641	1.00	0.00	C

ATOM	2077	CD1	LEU	133	72.281	69.797	169.544	1.00	0.00	C
ATOM	2078	CD2	LEU	133	73.872	68.680	171.078	1.00	0.00	C
ATOM	2079	H	LEU	133	71.061	66.593	171.593	1.00	0.00	H
ATOM	2080	HA	LEU	133	72.529	68.205	173.455	1.00	0.00	H
ATOM	2081	HB2	LEU	133	70.420	69.036	171.401	1.00	0.00	H
ATOM	2082	HB3	LEU	133	71.651	70.096	172.127	1.00	0.00	H
ATOM	2083	HG	LEU	133	72.132	67.748	170.286	1.00	0.00	H
ATOM	2084	HD11	LEU	133	71.249	69.836	169.195	1.00	0.00	H
ATOM	2085	HD12	LEU	133	72.567	70.771	169.942	1.00	0.00	H
ATOM	2086	HD13	LEU	133	72.936	69.538	168.712	1.00	0.00	H
ATOM	2087	HD21	LEU	133	74.184	69.660	171.440	1.00	0.00	H
ATOM	2088	HD22	LEU	133	73.983	67.946	171.876	1.00	0.00	H
ATOM	2089	HD23	LEU	133	74.493	68.391	170.230	1.00	0.00	H
ATOM	2090	N	PRO	134	69.387	67.996	174.321	1.00	0.00	N
ATOM	2091	CA	PRO	134	68.581	68.228	175.529	1.00	0.00	C
ATOM	2092	C	PRO	134	69.198	67.703	176.829	1.00	0.00	C

ATOM	2093	O	PRO	134	68.826	68.164	177.908	1.00	0.00	O
ATOM	2094	CB	PRO	134	67.232	67.537	175.273	1.00	0.00	C
ATOM	2095	CG	PRO	134	67.128	67.481	173.753	1.00	0.00	C
ATOM	2096	CD	PRO	134	68.584	67.317	173.313	1.00	0.00	C
ATOM	2097	HA	PRO	134	68.498	69.303	175.687	1.00	0.00	H
ATOM	2098	HB2	PRO	134	67.224	66.534	175.699	1.00	0.00	H
ATOM	2099	HB3	PRO	134	66.413	68.118	175.696	1.00	0.00	H
ATOM	2100	HG2	PRO	134	66.700	68.401	173.356	1.00	0.00	H
ATOM	2101	HG3	PRO	134	66.524	66.632	173.433	1.00	0.00	H
ATOM	2102	HD2	PRO	134	68.738	67.774	172.335	1.00	0.00	H
ATOM	2103	HD3	PRO	134	68.849	66.261	173.266	1.00	0.00	H
ATOM	2104	N	TRP	135	70.130	66.746	176.732	1.00	0.00	N
ATOM	2105	CA	TRP	135	70.789	66.076	177.857	1.00	0.00	C
ATOM	2106	C	TRP	135	69.779	65.444	178.839	1.00	0.00	C
ATOM	2107	O	TRP	135	69.946	65.492	180.060	1.00	0.00	O

ATOM	2108	CB	TRP	135	71.807	67.051	178.468	1.00	0.00	C
ATOM	2109	CG	TRP	135	72.946	66.419	179.211	1.00	0.00	C
ATOM	2110	CD1	TRP	135	73.089	66.342	180.555	1.00	0.00	C
ATOM	2111	CD2	TRP	135	74.011	65.591	178.655	1.00	0.00	C
ATOM	2112	NE1	TRP	135	74.248	65.652	180.857	1.00	0.00	N
ATOM	2113	CE2	TRP	135	74.865	65.171	179.719	1.00	0.00	C
ATOM	2114	CE3	TRP	135	74.336	65.152	177.354	1.00	0.00	C
ATOM	2115	CZ2	TRP	135	76.028	64.421	179.493	1.00	0.00	C
ATOM	2116	CZ3	TRP	135	75.503	64.403	177.112	1.00	0.00	C
ATOM	2117	CH2	TRP	135	76.358	64.055	178.175	1.00	0.00	C
ATOM	2118	H	TRP	135	70.403	66.461	175.802	1.00	0.00	H
ATOM	2119	HA	TRP	135	71.351	65.206	177.518	1.00	0.00	H
ATOM	2120	HB2	TRP	135	72.226	67.649	177.659	1.00	0.00	H
ATOM	2121	HB3	TRP	135	71.274	67.701	179.162	1.00	0.00	H
ATOM	2122	HD1	TRP	135	72.403	66.756	181.279	1.00	0.00	H
ATOM	2123	HE1	TRP	135	74.600	65.516	181.794	1.00	0.00	H

ATOM	2124	HE3 TRP	135	73.679	65.394	176.531	1.00	0.00	H
ATOM	2125	HZ2 TRP	135	76.661	64.129	180.318	1.00	0.00	H
ATOM	2126	HZ3 TRP	135	75.744	64.094	176.106	1.00	0.00	H
ATOM	2127	HH2 TRP	135	77.268	63.507	177.979	1.00	0.00	H
ATOM	2128	N GLY	136	68.715	64.828	178.307	1.00	0.00	N
ATOM	2129	CA GLY	136	67.835	63.924	179.062	1.00	0.00	C
ATOM	2130	C GLY	136	68.409	62.497	179.148	1.00	0.00	C
ATOM	2131	O GLY	136	69.448	62.194	178.553	1.00	0.00	O
ATOM	2132	H GLY	136	68.506	64.994	177.333	1.00	0.00	H
ATOM	2133	HA2 GLY	136	67.712	64.315	180.072	1.00	0.00	H
ATOM	2134	HA3 GLY	136	66.865	63.884	178.567	1.00	0.00	H
ATOM	2135	N GLN	137	67.711	61.579	179.835	1.00	0.00	N
ATOM	2136	CA GLN	137	68.116	60.166	179.908	1.00	0.00	C
ATOM	2137	C GLN	137	68.327	59.531	178.526	1.00	0.00	C
ATOM	2138	O GLN	137	69.404	59.006	178.252	1.00	0.00	O

ATOM	2139	CB	GLN	137	67.088	59.351	180.710	1.00	0.00	C
ATOM	2140	CG	GLN	137	67.270	59.495	182.227	1.00	0.00	C
ATOM	2141	CD	GLN	137	68.368	58.591	182.767	1.00	0.00	C
ATOM	2142	OE1	GLN	137	69.559	58.826	182.600	1.00	0.00	O
ATOM	2143	NE2	GLN	137	68.013	57.420	183.253	1.00	0.00	N
ATOM	2144	H	GLN	137	66.875	61.870	180.321	1.00	0.00	H
ATOM	2145	HA	GLN	137	69.079	60.146	180.419	1.00	0.00	H
ATOM	2146	HB2	GLN	137	66.088	59.694	180.445	1.00	0.00	H
ATOM	2147	HB3	GLN	137	67.194	58.299	180.445	1.00	0.00	H
ATOM	2148	HG2	GLN	137	66.332	59.238	182.718	1.00	0.00	H
ATOM	2149	HG3	GLN	137	67.526	60.530	182.452	1.00	0.00	H
ATOM	2150	HE21	GLN	137	68.718	56.733	183.481	1.00	0.00	H
ATOM	2151	HE22	GLN	137	67.036	57.208	183.397	1.00	0.00	H
ATOM	2152	N	MET	138	67.355	59.660	177.618	1.00	0.00	N
ATOM	2153	CA	MET	138	67.455	59.061	176.286	1.00	0.00	C
ATOM	2154	C	MET	138	68.435	59.768	175.340	1.00	0.00	C

ATOM	2155	O	MET	138	69.091	59.088	174.555	1.00	0.00	O
ATOM	2156	CB	MET	138	66.052	58.885	175.694	1.00	0.00	C
ATOM	2157	CG	MET	138	65.296	57.785	176.458	1.00	0.00	C
ATOM	2158	SD	MET	138	66.110	56.150	176.519	1.00	0.00	S
ATOM	2159	CE	MET	138	66.405	55.932	174.750	1.00	0.00	C
ATOM	2160	H	MET	138	66.527	60.186	177.858	1.00	0.00	H
ATOM	2161	HA	MET	138	67.905	58.076	176.407	1.00	0.00	H
ATOM	2162	HB2	MET	138	66.135	58.604	174.644	1.00	0.00	H
ATOM	2163	HB3	MET	138	65.504	59.824	175.776	1.00	0.00	H
ATOM	2164	HG2	MET	138	64.324	57.656	175.982	1.00	0.00	H
ATOM	2165	HG3	MET	138	65.156	58.127	177.484	1.00	0.00	H
ATOM	2166	HE1	MET	138	65.453	55.946	174.218	1.00	0.00	H
ATOM	2167	HE2	MET	138	67.037	56.741	174.385	1.00	0.00	H
ATOM	2168	HE3	MET	138	66.902	54.977	174.580	1.00	0.00	H
ATOM	2169	N	SER	139	68.701	61.061	175.551	1.00	0.00	N

ATOM	2170	CA	SER	139	69.845	61.776	174.979	1.00	0.00	C
ATOM	2171	C	SER	139	71.182	61.133	175.374	1.00	0.00	C
ATOM	2172	O	SER	139	71.971	60.769	174.503	1.00	0.00	O
ATOM	2173	CB	SER	139	69.866	63.237	175.453	1.00	0.00	C
ATOM	2174	OG	SER	139	68.738	63.982	175.034	1.00	0.00	O
ATOM	2175	H	SER	139	68.071	61.580	176.145	1.00	0.00	H
ATOM	2176	HA	SER	139	69.727	61.726	173.897	1.00	0.00	H
ATOM	2177	HB2	SER	139	70.762	63.715	175.057	1.00	0.00	H
ATOM	2178	HB3	SER	139	69.900	63.246	176.542	1.00	0.00	H
ATOM	2179	HG	SER	139	68.720	63.966	174.074	1.00	0.00	H
ATOM	2180	N	PHE	140	71.421	60.954	176.679	1.00	0.00	N
ATOM	2181	CA	PHE	140	72.657	60.368	177.199	1.00	0.00	C
ATOM	2182	C	PHE	140	72.861	58.881	176.907	1.00	0.00	C
ATOM	2183	O	PHE	140	73.805	58.517	176.203	1.00	0.00	O
ATOM	2184	CB	PHE	140	72.929	60.783	178.653	1.00	0.00	C
ATOM	2185	CG	PHE	140	73.994	59.971	179.378	1.00	0.00	C

ATOM	2186	CD1 PHE	140	75.308	60.462	179.504	1.00	0.00	C
ATOM	2187	CD2 PHE	140	73.678	58.714	179.932	1.00	0.00	C
ATOM	2188	CE1 PHE	140	76.286	59.695	180.165	1.00	0.00	C
ATOM	2189	CE2 PHE	140	74.669	57.932	180.545	1.00	0.00	C
ATOM	2190	CZ PHE	140	75.977	58.421	180.663	1.00	0.00	C
ATOM	2191	H PHE	140	70.711	61.238	177.339	1.00	0.00	H
ATOM	2192	HA PHE	140	73.452	60.817	176.604	1.00	0.00	H
ATOM	2193	HB2 PHE	140	73.245	61.826	178.651	1.00	0.00	H
ATOM	2194	HB3 PHE	140	71.997	60.687	179.210	1.00	0.00	H
ATOM	2195	HD1 PHE	140	75.565	61.427	179.093	1.00	0.00	H
ATOM	2196	HD2 PHE	140	72.663	58.349	179.884	1.00	0.00	H
ATOM	2197	HE1 PHE	140	77.283	60.091	180.290	1.00	0.00	H
ATOM	2198	HE2 PHE	140	74.423	56.952	180.926	1.00	0.00	H
ATOM	2199	HZ PHE	140	76.742	57.821	181.134	1.00	0.00	H
ATOM	2200	N TRP	141	71.902	58.034	177.311	1.00	0.00	N

ATOM	2201	CA	TRP	141	71.976	56.590	177.061	1.00	0.00	C
ATOM	2202	C	TRP	141	71.895	56.236	175.578	1.00	0.00	C
ATOM	2203	O	TRP	141	72.597	55.323	175.128	1.00	0.00	O
ATOM	2204	CB	TRP	141	70.938	55.818	177.891	1.00	0.00	C
ATOM	2205	CG	TRP	141	71.173	55.828	179.375	1.00	0.00	C
ATOM	2206	CD1	TRP	141	70.595	56.676	180.258	1.00	0.00	C
ATOM	2207	CD2	TRP	141	72.241	55.163	180.125	1.00	0.00	C
ATOM	2208	NE1	TRP	141	71.159	56.511	181.506	1.00	0.00	N
ATOM	2209	CE2	TRP	141	72.179	55.589	181.487	1.00	0.00	C
ATOM	2210	CE3	TRP	141	73.278	54.264	179.790	1.00	0.00	C
ATOM	2211	CZ2	TRP	141	73.065	55.125	182.468	1.00	0.00	C
ATOM	2212	CZ3	TRP	141	74.195	53.811	180.763	1.00	0.00	C
ATOM	2213	CH2	TRP	141	74.088	54.237	182.101	1.00	0.00	C
ATOM	2214	H	TRP	141	71.102	58.403	177.804	1.00	0.00	H
ATOM	2215	HA	TRP	141	72.965	56.273	177.392	1.00	0.00	H
ATOM	2216	HB2	TRP	141	69.959	56.258	177.701	1.00	0.00	H

ATOM	2217	HB3 TRP	141	70.941	54.781	177.556	1.00	0.00	H
ATOM	2218	HD1 TRP	141	69.809	57.378	180.021	1.00	0.00	H
ATOM	2219	HE1 TRP	141	70.859	57.007	182.333	1.00	0.00	H
ATOM	2220	HE3 TRP	141	73.371	53.917	178.771	1.00	0.00	H
ATOM	2221	HZ2 TRP	141	72.962	55.447	183.494	1.00	0.00	H
ATOM	2222	HZ3 TRP	141	74.985	53.132	180.479	1.00	0.00	H
ATOM	2223	HH2 TRP	141	74.790	53.882	182.841	1.00	0.00	H
ATOM	2224	N GLY	142	71.167	57.041	174.791	1.00	0.00	N
ATOM	2225	CA GLY	142	71.214	57.002	173.335	1.00	0.00	C
ATOM	2226	C GLY	142	72.645	57.180	172.809	1.00	0.00	C
ATOM	2227	O GLY	142	73.166	56.282	172.149	1.00	0.00	O
ATOM	2228	H GLY	142	70.553	57.711	175.231	1.00	0.00	H
ATOM	2229	HA2 GLY	142	70.829	56.041	172.995	1.00	0.00	H
ATOM	2230	HA3 GLY	142	70.590	57.803	172.940	1.00	0.00	H
ATOM	2231	N ALA	143	73.321	58.267	173.178	1.00	0.00	N

ATOM	2232	CA	ALA	143	74.715	58.497	172.803	1.00	0.00	C
ATOM	2233	C	ALA	143	75.671	57.402	173.326	1.00	0.00	C
ATOM	2234	O	ALA	143	76.534	56.932	172.578	1.00	0.00	O
ATOM	2235	CB	ALA	143	75.104	59.888	173.313	1.00	0.00	C
ATOM	2236	H	ALA	143	72.851	58.961	173.741	1.00	0.00	H
ATOM	2237	HA	ALA	143	74.810	58.448	171.718	1.00	0.00	H
ATOM	2238	HB1	ALA	143	74.448	60.635	172.866	1.00	0.00	H
ATOM	2239	HB2	ALA	143	75.004	59.918	174.398	1.00	0.00	H
ATOM	2240	HB3	ALA	143	76.137	60.100	173.038	1.00	0.00	H
ATOM	2241	N	THR	144	75.477	56.925	174.564	1.00	0.00	N
ATOM	2242	CA	THR	144	76.347	55.903	175.177	1.00	0.00	C
ATOM	2243	C	THR	144	76.285	54.555	174.466	1.00	0.00	C
ATOM	2244	O	THR	144	77.334	53.946	174.258	1.00	0.00	O
ATOM	2245	CB	THR	144	76.015	55.689	176.660	1.00	0.00	C
ATOM	2246	OG1	THR	144	76.062	56.908	177.354	1.00	0.00	O
ATOM	2247	CG2	THR	144	77.009	54.757	177.360	1.00	0.00	C

ATOM	2248	H	THR	144	74.700	57.282	175.102	1.00	0.00	H
ATOM	2249	HA	THR	144	77.358	56.298	175.076	1.00	0.00	H
ATOM	2250	HB	THR	144	75.019	55.246	176.676	1.00	0.00	H
ATOM	2251	HG21	THR	144	77.033	53.797	176.844	1.00	0.00	H
ATOM	2252	HG22	THR	144	78.003	55.205	177.340	1.00	0.00	H
ATOM	2253	HG23	THR	144	76.699	54.606	178.394	1.00	0.00	H
ATOM	2254	HG1	THR	144	76.962	57.239	177.299	1.00	0.00	H
ATOM	2255	N	VAL	145	75.092	54.092	174.060	1.00	0.00	N
ATOM	2256	CA	VAL	145	74.951	52.860	173.247	1.00	0.00	C
ATOM	2257	C	VAL	145	75.595	53.050	171.870	1.00	0.00	C
ATOM	2258	O	VAL	145	76.322	52.173	171.399	1.00	0.00	O
ATOM	2259	CB	VAL	145	73.475	52.417	173.109	1.00	0.00	C
ATOM	2260	CG1	VAL	145	73.297	51.145	172.252	1.00	0.00	C
ATOM	2261	CG2	VAL	145	72.871	52.072	174.476	1.00	0.00	C
ATOM	2262	H	VAL	145	74.259	54.602	174.318	1.00	0.00	H

ATOM	2263	HA	VAL	145	75.475	52.061	173.772	1.00	0.00	H
ATOM	2264	HB	VAL	145	72.980	53.265	172.636	1.00	0.00	H
ATOM	2265	HG11	VAL	145	73.734	51.307	171.267	1.00	0.00	H
ATOM	2266	HG12	VAL	145	73.797	50.307	172.738	1.00	0.00	H
ATOM	2267	HG13	VAL	145	72.235	50.923	172.147	1.00	0.00	H
ATOM	2268	HG21	VAL	145	73.401	51.221	174.903	1.00	0.00	H
ATOM	2269	HG22	VAL	145	72.965	52.930	175.142	1.00	0.00	H
ATOM	2270	HG23	VAL	145	71.817	51.821	174.355	1.00	0.00	H
ATOM	2271	N	ILE	146	75.379	54.203	171.226	1.00	0.00	N
ATOM	2272	CA	ILE	146	75.728	54.358	169.802	1.00	0.00	C
ATOM	2273	C	ILE	146	77.203	54.533	169.524	1.00	0.00	C
ATOM	2274	O	ILE	146	77.727	53.829	168.660	1.00	0.00	O
ATOM	2275	CB	ILE	146	74.867	55.441	169.130	1.00	0.00	C
ATOM	2276	CG1	ILE	146	73.408	54.961	169.143	1.00	0.00	C
ATOM	2277	CG2	ILE	146	75.269	55.702	167.673	1.00	0.00	C
ATOM	2278	CD1	ILE	146	73.233	53.454	168.866	1.00	0.00	C

ATOM	2279	H	ILE	146	74.970	54.981	171.724	1.00	0.00	H
ATOM	2280	HA	ILE	146	75.487	53.401	169.340	1.00	0.00	H
ATOM	2281	HB	ILE	146	75.007	56.369	169.683	1.00	0.00	H
ATOM	2282	HG12	ILE	146	72.986	55.179	170.124	1.00	0.00	H
ATOM	2283	HG13	ILE	146	72.860	55.514	168.380	1.00	0.00	H
ATOM	2284	HG21	ILE	146	76.313	56.012	167.634	1.00	0.00	H
ATOM	2285	HG22	ILE	146	75.139	54.789	167.091	1.00	0.00	H
ATOM	2286	HG23	ILE	146	74.640	56.490	167.258	1.00	0.00	H
ATOM	2287	HD11	ILE	146	73.627	53.218	167.877	1.00	0.00	H
ATOM	2288	HD12	ILE	146	73.774	52.881	169.619	1.00	0.00	H
ATOM	2289	HD13	ILE	146	72.174	53.198	168.906	1.00	0.00	H
ATOM	2290	N	THR	147	77.909	55.389	170.267	1.00	0.00	N
ATOM	2291	CA	THR	147	79.362	55.504	170.067	1.00	0.00	C
ATOM	2292	C	THR	147	80.051	54.163	170.331	1.00	0.00	C
ATOM	2293	O	THR	147	80.896	53.751	169.543	1.00	0.00	O

ATOM	2294	CB	THR	147	79.997	56.576	170.962	1.00	0.00	C
ATOM	2295	OG1	THR	147	79.279	57.794	170.924	1.00	0.00	O
ATOM	2296	CG2	THR	147	81.424	56.885	170.520	1.00	0.00	C
ATOM	2297	H	THR	147	77.447	55.956	170.964	1.00	0.00	H
ATOM	2298	HA	THR	147	79.506	55.802	169.028	1.00	0.00	H
ATOM	2299	HB	THR	147	79.981	56.166	171.972	1.00	0.00	H
ATOM	2300	HG21	THR	147	82.015	55.970	170.535	1.00	0.00	H
ATOM	2301	HG22	THR	147	81.411	57.292	169.509	1.00	0.00	H
ATOM	2302	HG23	THR	147	81.865	57.614	171.200	1.00	0.00	H
ATOM	2303	HG1	THR	147	79.314	58.124	170.023	1.00	0.00	H
ATOM	2304	N	ASN	148	79.584	53.410	171.338	1.00	0.00	N
ATOM	2305	CA	ASN	148	80.109	52.087	171.660	1.00	0.00	C
ATOM	2306	C	ASN	148	79.991	51.040	170.548	1.00	0.00	C
ATOM	2307	O	ASN	148	80.776	50.090	170.561	1.00	0.00	O
ATOM	2308	CB	ASN	148	79.461	51.588	172.957	1.00	0.00	C
ATOM	2309	CG	ASN	148	80.236	52.059	174.173	1.00	0.00	C

ATOM	2310	OD1 ASN	148	81.422	51.794	174.308	1.00	0.00	O
ATOM	2311	ND2 ASN	148	79.547	52.658	175.122	1.00	0.00	N
ATOM	2312	H ASN	148	78.831	53.777	171.902	1.00	0.00	H
ATOM	2313	HA ASN	148	81.184	52.215	171.786	1.00	0.00	H
ATOM	2314	HB2 ASN	148	79.441	50.498	172.948	1.00	0.00	H
ATOM	2315	HB3 ASN	148	78.442	51.970	173.015	1.00	0.00	H
ATOM	2316	HD21 ASN	148	79.997	52.911	175.990	1.00	0.00	H
ATOM	2317	HD22 ASN	148	78.568	52.864	174.982	1.00	0.00	H
ATOM	2318	N LEU	149	79.138	51.209	169.533	1.00	0.00	N
ATOM	2319	CA LEU	149	79.127	50.303	168.377	1.00	0.00	C
ATOM	2320	C LEU	149	80.467	50.312	167.627	1.00	0.00	C
ATOM	2321	O LEU	149	80.947	49.270	167.181	1.00	0.00	O
ATOM	2322	CB LEU	149	77.981	50.698	167.435	1.00	0.00	C
ATOM	2323	CG LEU	149	76.594	50.342	167.985	1.00	0.00	C
ATOM	2324	CD1 LEU	149	75.524	51.071	167.173	1.00	0.00	C

ATOM	2325	CD2	LEU	149	76.354	48.831	167.887	1.00	0.00	C
ATOM	2326	H	LEU	149	78.485	51.979	169.562	1.00	0.00	H
ATOM	2327	HA	LEU	149	78.973	49.287	168.741	1.00	0.00	H
ATOM	2328	HB2	LEU	149	78.023	51.775	167.272	1.00	0.00	H
ATOM	2329	HB3	LEU	149	78.120	50.181	166.485	1.00	0.00	H
ATOM	2330	HG	LEU	149	76.542	50.645	169.031	1.00	0.00	H
ATOM	2331	HD11	LEU	149	75.686	52.147	167.242	1.00	0.00	H
ATOM	2332	HD12	LEU	149	75.585	50.761	166.130	1.00	0.00	H
ATOM	2333	HD13	LEU	149	74.538	50.826	167.568	1.00	0.00	H
ATOM	2334	HD21	LEU	149	76.405	48.522	166.843	1.00	0.00	H
ATOM	2335	HD22	LEU	149	77.117	48.304	168.460	1.00	0.00	H
ATOM	2336	HD23	LEU	149	75.369	48.593	168.289	1.00	0.00	H
ATOM	2337	N	LEU	150	81.142	51.462	167.612	1.00	0.00	N
ATOM	2338	CA	LEU	150	82.453	51.631	166.996	1.00	0.00	C
ATOM	2339	C	LEU	150	83.567	50.901	167.781	1.00	0.00	C
ATOM	2340	O	LEU	150	84.587	50.553	167.186	1.00	0.00	O

ATOM	2341	CB	LEU	150	82.738	53.134	166.815	1.00	0.00	C
ATOM	2342	CG	LEU	150	81.592	53.972	166.201	1.00	0.00	C
ATOM	2343	CD1	LEU	150	81.927	55.463	166.279	1.00	0.00	C
ATOM	2344	CD2	LEU	150	81.340	53.599	164.738	1.00	0.00	C
ATOM	2345	H	LEU	150	80.719	52.265	168.055	1.00	0.00	H
ATOM	2346	HA	LEU	150	82.445	51.162	166.012	1.00	0.00	H
ATOM	2347	HB2	LEU	150	82.967	53.551	167.796	1.00	0.00	H
ATOM	2348	HB3	LEU	150	83.608	53.233	166.166	1.00	0.00	H
ATOM	2349	HG	LEU	150	80.691	53.758	166.776	1.00	0.00	H
ATOM	2350	HD11	LEU	150	82.093	55.744	167.319	1.00	0.00	H
ATOM	2351	HD12	LEU	150	82.829	55.664	165.700	1.00	0.00	H
ATOM	2352	HD13	LEU	150	81.098	56.043	165.873	1.00	0.00	H
ATOM	2353	HD21	LEU	150	82.234	53.808	164.151	1.00	0.00	H
ATOM	2354	HD22	LEU	150	81.100	52.538	164.670	1.00	0.00	H
ATOM	2355	HD23	LEU	150	80.506	54.185	164.352	1.00	0.00	H

ATOM	2356	N	SER	151	83.334	50.524	169.049	1.00	0.00	N
ATOM	2357	CA	SER	151	84.262	49.668	169.822	1.00	0.00	C
ATOM	2358	C	SER	151	84.333	48.223	169.309	1.00	0.00	C
ATOM	2359	O	SER	151	85.127	47.433	169.821	1.00	0.00	O
ATOM	2360	CB	SER	151	83.944	49.654	171.330	1.00	0.00	C
ATOM	2361	OG	SER	151	82.773	48.901	171.604	1.00	0.00	O
ATOM	2362	H	SER	151	82.485	50.840	169.496	1.00	0.00	H
ATOM	2363	HA	SER	151	85.238	50.130	169.671	1.00	0.00	H
ATOM	2364	HB2	SER	151	83.795	50.679	171.671	1.00	0.00	H
ATOM	2365	HB3	SER	151	84.784	49.212	171.866	1.00	0.00	H
ATOM	2366	HG	SER	151	82.048	49.307	171.124	1.00	0.00	H
ATOM	2367	N	ALA	152	83.515	47.849	168.321	1.00	0.00	N
ATOM	2368	CA	ALA	152	83.603	46.562	167.637	1.00	0.00	C
ATOM	2369	C	ALA	152	84.644	46.540	166.505	1.00	0.00	C
ATOM	2370	O	ALA	152	85.004	45.457	166.047	1.00	0.00	O
ATOM	2371	CB	ALA	152	82.212	46.222	167.109	1.00	0.00	C

ATOM	2372	H	ALA	152	82.794	48.494	168.030	1.00	0.00	H
ATOM	2373	HA	ALA	152	83.946	45.813	168.350	1.00	0.00	H
ATOM	2374	HB1	ALA	152	81.507	46.184	167.940	1.00	0.00	H
ATOM	2375	HB2	ALA	152	81.896	46.987	166.399	1.00	0.00	H
ATOM	2376	HB3	ALA	152	82.239	45.253	166.611	1.00	0.00	H
ATOM	2377	N	ILE	153	85.119	47.708	166.042	1.00	0.00	N
ATOM	2378	CA	ILE	153	86.105	47.808	164.958	1.00	0.00	C
ATOM	2379	C	ILE	153	87.447	47.227	165.452	1.00	0.00	C
ATOM	2380	O	ILE	153	88.032	47.783	166.387	1.00	0.00	O
ATOM	2381	CB	ILE	153	86.234	49.265	164.457	1.00	0.00	C
ATOM	2382	CG1	ILE	153	84.888	49.742	163.854	1.00	0.00	C
ATOM	2383	CG2	ILE	153	87.365	49.395	163.420	1.00	0.00	C
ATOM	2384	CD1	ILE	153	84.832	51.247	163.553	1.00	0.00	C
ATOM	2385	H	ILE	153	84.780	48.562	166.461	1.00	0.00	H
ATOM	2386	HA	ILE	153	85.775	47.225	164.098	1.00	0.00	H

ATOM	2387	HB	ILE	153	86.484	49.899	165.308	1.00	0.00	H
ATOM	2388	HG12	ILE	153	84.719	49.201	162.923	1.00	0.00	H
ATOM	2389	HG13	ILE	153	84.093	49.505	164.561	1.00	0.00	H
ATOM	2390	HG21	ILE	153	88.306	49.073	163.866	1.00	0.00	H
ATOM	2391	HG22	ILE	153	87.140	48.769	162.556	1.00	0.00	H
ATOM	2392	HG23	ILE	153	87.450	50.435	163.103	1.00	0.00	H
ATOM	2393	HD11	ILE	153	84.974	51.808	164.477	1.00	0.00	H
ATOM	2394	HD12	ILE	153	85.620	51.506	162.846	1.00	0.00	H
ATOM	2395	HD13	ILE	153	83.862	51.496	163.123	1.00	0.00	H
ATOM	2396	N	PRO	154	87.959	46.128	164.857	1.00	0.00	N
ATOM	2397	CA	PRO	154	89.133	45.429	165.375	1.00	0.00	C
ATOM	2398	C	PRO	154	90.356	46.342	165.510	1.00	0.00	C
ATOM	2399	O	PRO	154	90.646	47.149	164.630	1.00	0.00	O
ATOM	2400	CB	PRO	154	89.392	44.264	164.414	1.00	0.00	C
ATOM	2401	CG	PRO	154	87.999	43.963	163.874	1.00	0.00	C
ATOM	2402	CD	PRO	154	87.373	45.349	163.770	1.00	0.00	C

ATOM	2403	HA	PRO	154	88.947	45.073	166.388	1.00	0.00	H
ATOM	2404	HB2	PRO	154	90.070	44.558	163.613	1.00	0.00	H
ATOM	2405	HB3	PRO	154	89.804	43.403	164.941	1.00	0.00	H
ATOM	2406	HG2	PRO	154	87.439	43.330	164.562	1.00	0.00	H
ATOM	2407	HG3	PRO	154	88.052	43.481	162.898	1.00	0.00	H
ATOM	2408	HD2	PRO	154	86.291	45.287	163.887	1.00	0.00	H
ATOM	2409	HD3	PRO	154	87.609	45.802	162.807	1.00	0.00	H
ATOM	2410	N	TYR	155	91.076	46.200	166.625	1.00	0.00	N
ATOM	2411	CA	TYR	155	92.351	46.869	166.924	1.00	0.00	C
ATOM	2412	C	TYR	155	92.407	48.416	166.985	1.00	0.00	C
ATOM	2413	O	TYR	155	93.359	48.980	167.508	1.00	0.00	O
ATOM	2414	CB	TYR	155	93.493	46.154	166.166	1.00	0.00	C
ATOM	2415	CG	TYR	155	94.870	46.779	166.220	1.00	0.00	C
ATOM	2416	CD1	TYR	155	95.709	46.484	167.311	1.00	0.00	C
ATOM	2417	CD2	TYR	155	95.344	47.594	165.169	1.00	0.00	C

ATOM	2418	CE1	TYR	155	97.020	46.999	167.361	1.00	0.00	C
ATOM	2419	CE2	TYR	155	96.656	48.115	165.216	1.00	0.00	C
ATOM	2420	CZ	TYR	155	97.496	47.813	166.313	1.00	0.00	C
ATOM	2421	OH	TYR	155	98.769	48.296	166.364	1.00	0.00	O
ATOM	2422	H	TYR	155	90.711	45.575	167.329	1.00	0.00	H
ATOM	2423	HA	TYR	155	92.502	46.736	167.995	1.00	0.00	H
ATOM	2424	HB2	TYR	155	93.576	45.147	166.576	1.00	0.00	H
ATOM	2425	HB3	TYR	155	93.202	46.097	165.117	1.00	0.00	H
ATOM	2426	HD1	TYR	155	95.346	45.860	168.114	1.00	0.00	H
ATOM	2427	HD2	TYR	155	94.703	47.819	164.329	1.00	0.00	H
ATOM	2428	HE1	TYR	155	97.659	46.770	168.201	1.00	0.00	H
ATOM	2429	HE2	TYR	155	97.017	48.743	164.415	1.00	0.00	H
ATOM	2430	HH	TYR	155	99.028	48.838	165.615	1.00	0.00	H
ATOM	2431	N	ILE	156	91.342	49.100	166.545	1.00	0.00	N
ATOM	2432	CA	ILE	156	91.223	50.572	166.473	1.00	0.00	C
ATOM	2433	C	ILE	156	90.014	51.096	167.277	1.00	0.00	C

ATOM	2434	O	ILE	156	89.997	52.247	167.715	1.00	0.00	O
ATOM	2435	CB	ILE	156	91.151	50.985	164.974	1.00	0.00	C
ATOM	2436	CG1	ILE	156	92.469	50.638	164.235	1.00	0.00	C
ATOM	2437	CG2	ILE	156	90.817	52.477	164.783	1.00	0.00	C
ATOM	2438	CD1	ILE	156	92.377	50.727	162.705	1.00	0.00	C
ATOM	2439	H	ILE	156	90.547	48.560	166.234	1.00	0.00	H
ATOM	2440	HA	ILE	156	92.099	51.029	166.933	1.00	0.00	H
ATOM	2441	HB	ILE	156	90.334	50.409	164.538	1.00	0.00	H
ATOM	2442	HG12	ILE	156	93.241	51.330	164.571	1.00	0.00	H
ATOM	2443	HG13	ILE	156	92.752	49.620	164.501	1.00	0.00	H
ATOM	2444	HG21	ILE	156	89.878	52.706	165.286	1.00	0.00	H
ATOM	2445	HG22	ILE	156	91.615	53.085	165.208	1.00	0.00	H
ATOM	2446	HG23	ILE	156	90.722	52.695	163.719	1.00	0.00	H
ATOM	2447	HD11	ILE	156	91.626	50.024	162.345	1.00	0.00	H
ATOM	2448	HD12	ILE	156	92.095	51.739	162.416	1.00	0.00	H

ATOM	2449	HD13	ILE	156	93.345	50.481	162.268	1.00	0.00	H
ATOM	2450	N	GLY	157	88.977	50.270	167.460	1.00	0.00	N
ATOM	2451	CA	GLY	157	87.661	50.706	167.938	1.00	0.00	C
ATOM	2452	C	GLY	157	87.654	51.346	169.324	1.00	0.00	C
ATOM	2453	O	GLY	157	86.919	52.307	169.539	1.00	0.00	O
ATOM	2454	H	GLY	157	89.108	49.289	167.257	1.00	0.00	H
ATOM	2455	HA2	GLY	157	87.268	51.434	167.228	1.00	0.00	H
ATOM	2456	HA3	GLY	157	87.006	49.835	167.965	1.00	0.00	H
ATOM	2457	N	THR	158	88.493	50.885	170.259	1.00	0.00	N
ATOM	2458	CA	THR	158	88.549	51.439	171.624	1.00	0.00	C
ATOM	2459	C	THR	158	89.027	52.890	171.636	1.00	0.00	C
ATOM	2460	O	THR	158	88.339	53.755	172.182	1.00	0.00	O
ATOM	2461	CB	THR	158	89.458	50.584	172.520	1.00	0.00	C
ATOM	2462	OG1	THR	158	89.101	49.220	172.421	1.00	0.00	O
ATOM	2463	CG2	THR	158	89.356	50.967	173.997	1.00	0.00	C
ATOM	2464	H	THR	158	89.114	50.125	170.019	1.00	0.00	H

ATOM	2465	HA	THR	158	87.532	51.419	172.017	1.00	0.00	H
ATOM	2466	HB	THR	158	90.475	50.761	172.171	1.00	0.00	H
ATOM	2467	HG21	THR	158	89.605	52.021	174.117	1.00	0.00	H
ATOM	2468	HG22	THR	158	88.339	50.791	174.348	1.00	0.00	H
ATOM	2469	HG23	THR	158	90.051	50.361	174.578	1.00	0.00	H
ATOM	2470	HG1	THR	158	88.200	49.132	172.742	1.00	0.00	H
ATOM	2471	N	ASP	159	90.138	53.183	170.959	1.00	0.00	N
ATOM	2472	CA	ASP	159	90.705	54.527	170.831	1.00	0.00	C
ATOM	2473	C	ASP	159	89.775	55.425	170.008	1.00	0.00	C
ATOM	2474	O	ASP	159	89.593	56.588	170.366	1.00	0.00	O
ATOM	2475	CB	ASP	159	92.070	54.444	170.127	1.00	0.00	C
ATOM	2476	CG	ASP	159	92.996	53.421	170.782	1.00	0.00	C
ATOM	2477	OD1	ASP	159	92.692	52.187	170.638	1.00	0.00	O
ATOM	2478	OD2	ASP	159	93.975	53.859	171.444	1.00	0.00	O1-
ATOM	2479	H	ASP	159	90.623	52.424	170.502	1.00	0.00	H

ATOM	2480	HA	ASP	159	90.822	54.951	171.828	1.00	0.00	H
ATOM	2481	HB2	ASP	159	92.546	55.424	170.167	1.00	0.00	H
ATOM	2482	HB3	ASP	159	91.912	54.159	169.087	1.00	0.00	H
ATOM	2483	N	LEU	160	89.134	54.891	168.960	1.00	0.00	N
ATOM	2484	CA	LEU	160	88.185	55.628	168.126	1.00	0.00	C
ATOM	2485	C	LEU	160	86.967	56.115	168.941	1.00	0.00	C
ATOM	2486	O	LEU	160	86.624	57.297	168.877	1.00	0.00	O
ATOM	2487	CB	LEU	160	87.828	54.736	166.926	1.00	0.00	C
ATOM	2488	CG	LEU	160	87.116	55.437	165.749	1.00	0.00	C
ATOM	2489	CD1	LEU	160	87.219	54.549	164.510	1.00	0.00	C
ATOM	2490	CD2	LEU	160	85.630	55.682	165.997	1.00	0.00	C
ATOM	2491	H	LEU	160	89.316	53.924	168.733	1.00	0.00	H
ATOM	2492	HA	LEU	160	88.630	56.548	167.746	1.00	0.00	H
ATOM	2493	HB2	LEU	160	88.753	54.303	166.546	1.00	0.00	H
ATOM	2494	HB3	LEU	160	87.175	53.940	167.285	1.00	0.00	H
ATOM	2495	HG	LEU	160	87.607	56.402	165.623	1.00	0.00	H

ATOM	2496	HD11	LEU	160	88.269	54.360	164.285	1.00	0.00	H
ATOM	2497	HD12	LEU	160	86.711	53.603	164.698	1.00	0.00	H
ATOM	2498	HD13	LEU	160	86.751	55.051	163.663	1.00	0.00	H
ATOM	2499	HD21	LEU	160	85.121	54.727	166.125	1.00	0.00	H
ATOM	2500	HD22	LEU	160	85.506	56.284	166.897	1.00	0.00	H
ATOM	2501	HD23	LEU	160	85.202	56.210	165.145	1.00	0.00	H
ATOM	2502	N	VAL	161	86.406	55.252	169.800	1.00	0.00	N
ATOM	2503	CA	VAL	161	85.294	55.593	170.709	1.00	0.00	C
ATOM	2504	C	VAL	161	85.737	56.667	171.706	1.00	0.00	C
ATOM	2505	O	VAL	161	85.066	57.695	171.830	1.00	0.00	O
ATOM	2506	CB	VAL	161	84.827	54.318	171.443	1.00	0.00	C
ATOM	2507	CG1	VAL	161	83.990	54.565	172.707	1.00	0.00	C
ATOM	2508	CG2	VAL	161	83.969	53.506	170.476	1.00	0.00	C
ATOM	2509	H	VAL	161	86.767	54.309	169.827	1.00	0.00	H
ATOM	2510	HA	VAL	161	84.460	55.994	170.133	1.00	0.00	H

ATOM	2511	HB	VAL	161	85.733	53.805	171.765	1.00	0.00	H
ATOM	2512	HG11	VAL	161	84.558	55.181	173.404	1.00	0.00	H
ATOM	2513	HG12	VAL	161	83.067	55.078	172.437	1.00	0.00	H
ATOM	2514	HG13	VAL	161	83.751	53.611	173.177	1.00	0.00	H
ATOM	2515	HG21	VAL	161	83.086	54.083	170.202	1.00	0.00	H
ATOM	2516	HG22	VAL	161	84.547	53.278	169.580	1.00	0.00	H
ATOM	2517	HG23	VAL	161	83.661	52.577	170.956	1.00	0.00	H
ATOM	2518	N	GLN	162	86.896	56.494	172.350	1.00	0.00	N
ATOM	2519	CA	GLN	162	87.410	57.476	173.313	1.00	0.00	C
ATOM	2520	C	GLN	162	87.778	58.812	172.649	1.00	0.00	C
ATOM	2521	O	GLN	162	87.540	59.879	173.234	1.00	0.00	O
ATOM	2522	CB	GLN	162	88.588	56.864	174.087	1.00	0.00	C
ATOM	2523	CG	GLN	162	88.112	55.706	174.989	1.00	0.00	C
ATOM	2524	CD	GLN	162	89.252	54.926	175.633	1.00	0.00	C
ATOM	2525	OE1	GLN	162	90.378	55.373	175.773	1.00	0.00	O
ATOM	2526	NE2	GLN	162	88.987	53.726	176.116	1.00	0.00	N

ATOM	2527	H	GLN	162	87.436	55.660	172.168	1.00	0.00	H
ATOM	2528	HA	GLN	162	86.616	57.715	174.020	1.00	0.00	H
ATOM	2529	HB2	GLN	162	89.323	56.484	173.377	1.00	0.00	H
ATOM	2530	HB3	GLN	162	89.046	57.634	174.707	1.00	0.00	H
ATOM	2531	HG2	GLN	162	87.522	55.018	174.384	1.00	0.00	H
ATOM	2532	HG3	GLN	162	87.487	56.120	175.781	1.00	0.00	H
ATOM	2533	HE21	GLN	162	88.062	53.333	176.013	1.00	0.00	H
ATOM	2534	HE22	GLN	162	89.709	53.201	176.588	1.00	0.00	H
ATOM	2535	N	TRP	163	88.217	58.783	171.389	1.00	0.00	N
ATOM	2536	CA	TRP	163	88.532	59.980	170.610	1.00	0.00	C
ATOM	2537	C	TRP	163	87.309	60.830	170.273	1.00	0.00	C
ATOM	2538	O	TRP	163	87.349	62.032	170.555	1.00	0.00	O
ATOM	2539	CB	TRP	163	89.367	59.629	169.363	1.00	0.00	C
ATOM	2540	CG	TRP	163	89.692	60.796	168.475	1.00	0.00	C
ATOM	2541	CD1	TRP	163	90.494	61.818	168.848	1.00	0.00	C

ATOM	2542	CD2 TRP	163	89.119	61.194	167.179	1.00	0.00	C
ATOM	2543	NE1 TRP	163	90.497	62.790	167.870	1.00	0.00	N
ATOM	2544	CE2 TRP	163	89.663	62.464	166.822	1.00	0.00	C
ATOM	2545	CE3 TRP	163	88.230	60.600	166.259	1.00	0.00	C
ATOM	2546	CZ2 TRP	163	89.332	63.121	165.625	1.00	0.00	C
ATOM	2547	CZ3 TRP	163	87.890	61.244	165.050	1.00	0.00	C
ATOM	2548	CH2 TRP	163	88.433	62.506	164.737	1.00	0.00	C
ATOM	2549	H TRP	163	88.339	57.883	170.948	1.00	0.00	H
ATOM	2550	HA TRP	163	89.145	60.612	171.252	1.00	0.00	H
ATOM	2551	HB2 TRP	163	90.305	59.185	169.697	1.00	0.00	H
ATOM	2552	HB3 TRP	163	88.809	58.900	168.775	1.00	0.00	H
ATOM	2553	HD1 TRP	163	91.049	61.866	169.773	1.00	0.00	H
ATOM	2554	HE1 TRP	163	91.044	63.638	167.916	1.00	0.00	H
ATOM	2555	HE3 TRP	163	87.802	59.634	166.484	1.00	0.00	H
ATOM	2556	HZ2 TRP	163	89.762	64.084	165.391	1.00	0.00	H
ATOM	2557	HZ3 TRP	163	87.209	60.767	164.361	1.00	0.00	H

ATOM	2558	HH2 TRP	163	88.159	63.000	163.816	1.00	0.00	H
ATOM	2559	N ILE	164	86.196	60.247	169.792	1.00	0.00	N
ATOM	2560	CA ILE	164	84.969	61.040	169.561	1.00	0.00	C
ATOM	2561	C ILE	164	84.258	61.401	170.872	1.00	0.00	C
ATOM	2562	O ILE	164	83.670	62.487	170.921	1.00	0.00	O
ATOM	2563	CB ILE	164	84.004	60.466	168.489	1.00	0.00	C
ATOM	2564	CG1 ILE	164	82.813	59.620	169.010	1.00	0.00	C
ATOM	2565	CG2 ILE	164	84.716	59.752	167.331	1.00	0.00	C
ATOM	2566	CD1 ILE	164	81.595	59.667	168.069	1.00	0.00	C
ATOM	2567	H ILE	164	86.198	59.258	169.587	1.00	0.00	H
ATOM	2568	HA ILE	164	85.323	61.970	169.117	1.00	0.00	H
ATOM	2569	HB ILE	164	83.552	61.379	168.101	1.00	0.00	H
ATOM	2570	HG12 ILE	164	83.138	58.584	169.109	1.00	0.00	H
ATOM	2571	HG13 ILE	164	82.515	60.002	169.986	1.00	0.00	H
ATOM	2572	HG21 ILE	164	85.486	60.405	166.920	1.00	0.00	H

ATOM	2573	HG22	ILE	164	85.176	58.835	167.698	1.00	0.00	H
ATOM	2574	HG23	ILE	164	83.992	59.509	166.553	1.00	0.00	H
ATOM	2575	HD11	ILE	164	81.249	60.696	167.974	1.00	0.00	H
ATOM	2576	HD12	ILE	164	81.879	59.287	167.088	1.00	0.00	H
ATOM	2577	HD13	ILE	164	80.795	59.051	168.479	1.00	0.00	H
ATOM	2578	N	TRP	165	84.375	60.604	171.944	1.00	0.00	N
ATOM	2579	CA	TRP	165	83.902	61.018	173.276	1.00	0.00	C
ATOM	2580	C	TRP	165	84.646	62.233	173.837	1.00	0.00	C
ATOM	2581	O	TRP	165	84.014	63.155	174.356	1.00	0.00	O
ATOM	2582	CB	TRP	165	83.932	59.842	174.278	1.00	0.00	C
ATOM	2583	CG	TRP	165	82.850	58.796	174.191	1.00	0.00	C
ATOM	2584	CD1	TRP	165	81.632	58.942	173.620	1.00	0.00	C
ATOM	2585	CD2	TRP	165	82.828	57.466	174.798	1.00	0.00	C
ATOM	2586	NE1	TRP	165	80.891	57.789	173.782	1.00	0.00	N
ATOM	2587	CE2	TRP	165	81.578	56.842	174.513	1.00	0.00	C
ATOM	2588	CE3	TRP	165	83.749	56.724	175.571	1.00	0.00	C

ATOM	2589	CZ2 TRP	165	81.262	55.542	174.937	1.00	0.00	C
ATOM	2590	CZ3 TRP	165	83.438	55.426	176.021	1.00	0.00	C
ATOM	2591	CH2 TRP	165	82.209	54.828	175.693	1.00	0.00	C
ATOM	2592	H TRP	165	84.799	59.694	171.835	1.00	0.00	H
ATOM	2593	HA TRP	165	82.867	61.329	173.138	1.00	0.00	H
ATOM	2594	HB2 TRP	165	84.885	59.331	174.146	1.00	0.00	H
ATOM	2595	HB3 TRP	165	83.885	60.271	175.279	1.00	0.00	H
ATOM	2596	HD1 TRP	165	81.290	59.831	173.112	1.00	0.00	H
ATOM	2597	HE1 TRP	165	79.961	57.655	173.411	1.00	0.00	H
ATOM	2598	HE3 TRP	165	84.706	57.159	175.821	1.00	0.00	H
ATOM	2599	HZ2 TRP	165	80.310	55.098	174.687	1.00	0.00	H
ATOM	2600	HZ3 TRP	165	84.151	54.885	176.624	1.00	0.00	H
ATOM	2601	HH2 TRP	165	81.992	53.822	176.021	1.00	0.00	H
ATOM	2602	N GLY	166	85.976	62.256	173.695	1.00	0.00	N
ATOM	2603	CA GLY	166	86.844	63.187	174.413	1.00	0.00	C

ATOM	2604	C	GLY	166	87.112	62.756	175.860	1.00	0.00	C
ATOM	2605	O	GLY	166	87.289	63.611	176.729	1.00	0.00	O
ATOM	2606	H	GLY	166	86.402	61.597	173.059	1.00	0.00	H
ATOM	2607	HA2	GLY	166	87.796	63.251	173.887	1.00	0.00	H
ATOM	2608	HA3	GLY	166	86.369	64.168	174.424	1.00	0.00	H
ATOM	2609	N	GLY	167	87.063	61.448	176.142	1.00	0.00	N
ATOM	2610	CA	GLY	167	87.153	60.880	177.483	1.00	0.00	C
ATOM	2611	C	GLY	167	86.740	59.405	177.505	1.00	0.00	C
ATOM	2612	O	GLY	167	86.630	58.762	176.464	1.00	0.00	O
ATOM	2613	H	GLY	167	86.956	60.807	175.369	1.00	0.00	H
ATOM	2614	HA2	GLY	167	88.182	60.964	177.833	1.00	0.00	H
ATOM	2615	HA3	GLY	167	86.496	61.440	178.148	1.00	0.00	H
ATOM	2616	N	TYR	168	86.442	58.884	178.702	1.00	0.00	N
ATOM	2617	CA	TYR	168	86.046	57.481	178.926	1.00	0.00	C
ATOM	2618	C	TYR	168	84.536	57.193	178.909	1.00	0.00	C
ATOM	2619	O	TYR	168	84.096	56.070	179.159	1.00	0.00	O

ATOM	2620	CB	TYR	168	86.759	56.924	180.169	1.00	0.00	C
ATOM	2621	CG	TYR	168	88.264	56.863	179.999	1.00	0.00	C
ATOM	2622	CD1	TYR	168	89.072	57.855	180.583	1.00	0.00	C
ATOM	2623	CD2	TYR	168	88.845	55.856	179.199	1.00	0.00	C
ATOM	2624	CE1	TYR	168	90.463	57.850	180.364	1.00	0.00	C
ATOM	2625	CE2	TYR	168	90.238	55.850	178.977	1.00	0.00	C
ATOM	2626	CZ	TYR	168	91.049	56.854	179.554	1.00	0.00	C
ATOM	2627	OH	TYR	168	92.385	56.870	179.310	1.00	0.00	O
ATOM	2628	H	TYR	168	86.492	59.493	179.506	1.00	0.00	H
ATOM	2629	HA	TYR	168	86.386	56.934	178.047	1.00	0.00	H
ATOM	2630	HB2	TYR	168	86.529	57.565	181.020	1.00	0.00	H
ATOM	2631	HB3	TYR	168	86.388	55.917	180.362	1.00	0.00	H
ATOM	2632	HD1	TYR	168	88.625	58.621	181.200	1.00	0.00	H
ATOM	2633	HD2	TYR	168	88.224	55.091	178.757	1.00	0.00	H
ATOM	2634	HE1	TYR	168	91.083	58.610	180.817	1.00	0.00	H

ATOM	2635	HE2	TYR	168	90.685	55.079	178.367	1.00	0.00	H
ATOM	2636	HH	TYR	168	92.701	56.168	178.737	1.00	0.00	H
ATOM	2637	N	SER	169	83.743	58.240	178.670	1.00	0.00	N
ATOM	2638	CA	SER	169	82.280	58.277	178.752	1.00	0.00	C
ATOM	2639	C	SER	169	81.717	59.460	177.953	1.00	0.00	C
ATOM	2640	O	SER	169	82.440	60.412	177.651	1.00	0.00	O
ATOM	2641	CB	SER	169	81.829	58.422	180.217	1.00	0.00	C
ATOM	2642	OG	SER	169	82.121	57.246	180.964	1.00	0.00	O
ATOM	2643	H	SER	169	84.201	59.100	178.404	1.00	0.00	H
ATOM	2644	HA	SER	169	81.904	57.343	178.335	1.00	0.00	H
ATOM	2645	HB2	SER	169	80.754	58.601	180.242	1.00	0.00	H
ATOM	2646	HB3	SER	169	82.349	59.268	180.667	1.00	0.00	H
ATOM	2647	HG	SER	169	81.654	56.516	180.551	1.00	0.00	H
ATOM	2648	N	VAL	170	80.409	59.425	177.681	1.00	0.00	N
ATOM	2649	CA	VAL	170	79.629	60.549	177.143	1.00	0.00	C
ATOM	2650	C	VAL	170	79.470	61.646	178.214	1.00	0.00	C

ATOM	2651	O	VAL	170	78.584	61.553	179.057	1.00	0.00	O
ATOM	2652	CB	VAL	170	78.257	60.028	176.661	1.00	0.00	C
ATOM	2653	CG1	VAL	170	77.394	61.112	176.013	1.00	0.00	C
ATOM	2654	CG2	VAL	170	78.397	58.924	175.605	1.00	0.00	C
ATOM	2655	H	VAL	170	79.919	58.560	177.859	1.00	0.00	H
ATOM	2656	HA	VAL	170	80.151	60.991	176.294	1.00	0.00	H
ATOM	2657	HB	VAL	170	77.785	59.657	177.571	1.00	0.00	H
ATOM	2658	HG11	VAL	170	77.268	61.941	176.710	1.00	0.00	H
ATOM	2659	HG12	VAL	170	77.881	61.471	175.106	1.00	0.00	H
ATOM	2660	HG13	VAL	170	76.418	60.697	175.761	1.00	0.00	H
ATOM	2661	HG21	VAL	170	78.872	59.333	174.713	1.00	0.00	H
ATOM	2662	HG22	VAL	170	79.009	58.115	176.004	1.00	0.00	H
ATOM	2663	HG23	VAL	170	77.410	58.540	175.348	1.00	0.00	H
ATOM	2664	N	ASP	171	80.344	62.653	178.226	1.00	0.00	N
ATOM	2665	CA	ASP	171	80.434	63.632	179.323	1.00	0.00	C

ATOM	2666	C	ASP	171	80.536	65.064	178.714	1.00	0.00	C
ATOM	2667	O	ASP	171	80.157	65.280	177.530	1.00	0.00	O
ATOM	2668	CB	ASP	171	81.669	63.259	180.170	1.00	0.00	C
ATOM	2669	CG	ASP	171	81.687	63.885	181.576	1.00	0.00	C
ATOM	2670	OD1	ASP	171	80.749	64.653	181.888	1.00	0.00	O
ATOM	2671	OD2	ASP	171	82.673	63.648	182.302	1.00	0.00	O1-
ATOM	2672	H	ASP	171	80.976	62.749	177.444	1.00	0.00	H
ATOM	2673	HA	ASP	171	79.553	63.619	179.965	1.00	0.00	H
ATOM	2674	HB2	ASP	171	82.561	63.590	179.638	1.00	0.00	H
ATOM	2675	HB3	ASP	171	81.693	62.175	180.279	1.00	0.00	H
ATOM	2676	N	SER	172	80.973	66.046	179.512	1.00	0.00	N
ATOM	2677	CA	SER	172	81.089	67.462	179.125	1.00	0.00	C
ATOM	2678	C	SER	172	81.739	67.657	177.733	1.00	0.00	C
ATOM	2679	O	SER	172	81.096	68.261	176.871	1.00	0.00	O
ATOM	2680	CB	SER	172	81.837	68.239	180.226	1.00	0.00	C
ATOM	2681	OG	SER	172	81.515	69.614	180.167	1.00	0.00	O

ATOM	2682	H	SER	172	81.244	65.796	180.452	1.00	0.00	H
ATOM	2683	HA	SER	172	80.081	67.866	179.030	1.00	0.00	H
ATOM	2684	HB2	SER	172	82.911	68.116	180.086	1.00	0.00	H
ATOM	2685	HB3	SER	172	81.550	67.845	181.201	1.00	0.00	H
ATOM	2686	HG	SER	172	81.776	69.936	179.301	1.00	0.00	H
ATOM	2687	N	PRO	173	82.941	67.101	177.437	1.00	0.00	N
ATOM	2688	CA	PRO	173	83.589	67.182	176.121	1.00	0.00	C
ATOM	2689	C	PRO	173	82.817	66.559	174.956	1.00	0.00	C
ATOM	2690	O	PRO	173	83.150	66.848	173.778	1.00	0.00	O
ATOM	2691	CB	PRO	173	84.935	66.449	176.269	1.00	0.00	C
ATOM	2692	CG	PRO	173	85.274	66.605	177.742	1.00	0.00	C
ATOM	2693	CD	PRO	173	83.896	66.557	178.389	1.00	0.00	C
ATOM	2694	HA	PRO	173	83.669	68.238	175.862	1.00	0.00	H
ATOM	2695	HB2	PRO	173	84.835	65.397	176.003	1.00	0.00	H
ATOM	2696	HB3	PRO	173	85.699	66.911	175.644	1.00	0.00	H

ATOM	2697	HG2 PRO	173	85.770	67.556	177.936	1.00	0.00	H
ATOM	2698	HG3 PRO	173	85.905	65.788	178.092	1.00	0.00	H
ATOM	2699	HD2 PRO	173	83.893	67.155	179.301	1.00	0.00	H
ATOM	2700	HD3 PRO	173	83.635	65.526	178.629	1.00	0.00	H
ATOM	2701	N THR	174	81.836	65.685	175.245	1.00	0.00	N
ATOM	2702	CA THR	174	81.000	65.017	174.233	1.00	0.00	C
ATOM	2703	C THR	174	79.770	65.857	173.872	1.00	0.00	C
ATOM	2704	O THR	174	79.490	66.024	172.684	1.00	0.00	O
ATOM	2705	CB THR	174	80.552	63.622	174.690	1.00	0.00	C
ATOM	2706	OG1 THR	174	81.542	62.965	175.454	1.00	0.00	O
ATOM	2707	CG2 THR	174	80.213	62.715	173.505	1.00	0.00	C
ATOM	2708	H THR	174	81.662	65.474	176.217	1.00	0.00	H
ATOM	2709	HA THR	174	81.624	64.907	173.346	1.00	0.00	H
ATOM	2710	HB THR	174	79.666	63.793	175.301	1.00	0.00	H
ATOM	2711	HG21 THR	174	79.445	63.188	172.893	1.00	0.00	H
ATOM	2712	HG22 THR	174	81.108	62.553	172.904	1.00	0.00	H

ATOM	2713	HG23	THR	174	79.845	61.758	173.874	1.00	0.00	H
ATOM	2714	HG1	THR	174	82.305	62.831	174.887	1.00	0.00	H
ATOM	2715	N	LEU	175	79.088	66.456	174.862	1.00	0.00	N
ATOM	2716	CA	LEU	175	77.898	67.289	174.648	1.00	0.00	C
ATOM	2717	C	LEU	175	78.212	68.522	173.784	1.00	0.00	C
ATOM	2718	O	LEU	175	77.652	68.691	172.702	1.00	0.00	O
ATOM	2719	CB	LEU	175	77.294	67.709	176.016	1.00	0.00	C
ATOM	2720	CG	LEU	175	75.786	68.024	175.985	1.00	0.00	C
ATOM	2721	CD1	LEU	175	75.390	68.679	177.315	1.00	0.00	C
ATOM	2722	CD2	LEU	175	75.276	68.920	174.852	1.00	0.00	C
ATOM	2723	H	LEU	175	79.413	66.326	175.809	1.00	0.00	H
ATOM	2724	HA	LEU	175	77.163	66.697	174.103	1.00	0.00	H
ATOM	2725	HB2	LEU	175	77.456	66.895	176.723	1.00	0.00	H
ATOM	2726	HB3	LEU	175	77.820	68.600	176.360	1.00	0.00	H
ATOM	2727	HG	LEU	175	75.320	67.054	175.808	1.00	0.00	H

ATOM	2728	HD11	LEU	175	75.681	68.029	178.141	1.00	0.00	H
ATOM	2729	HD12	LEU	175	75.897	69.639	177.412	1.00	0.00	H
ATOM	2730	HD13	LEU	175	74.311	68.834	177.337	1.00	0.00	H
ATOM	2731	HD21	LEU	175	75.701	69.918	174.959	1.00	0.00	H
ATOM	2732	HD22	LEU	175	75.576	68.498	173.893	1.00	0.00	H
ATOM	2733	HD23	LEU	175	74.189	68.981	174.898	1.00	0.00	H
ATOM	2734	N	THR	176	79.168	69.350	174.209	1.00	0.00	N
ATOM	2735	CA	THR	176	79.502	70.606	173.512	1.00	0.00	C
ATOM	2736	C	THR	176	80.014	70.369	172.091	1.00	0.00	C
ATOM	2737	O	THR	176	79.630	71.068	171.155	1.00	0.00	O
ATOM	2738	CB	THR	176	80.532	71.401	174.324	1.00	0.00	C
ATOM	2739	OG1	THR	176	80.174	71.419	175.687	1.00	0.00	O
ATOM	2740	CG2	THR	176	80.686	72.850	173.864	1.00	0.00	C
ATOM	2741	H	THR	176	79.684	69.107	175.042	1.00	0.00	H
ATOM	2742	HA	THR	176	78.581	71.183	173.426	1.00	0.00	H
ATOM	2743	HB	THR	176	81.482	70.891	174.167	1.00	0.00	H

ATOM	2744	HG21	THR	176	80.951	72.869	172.807	1.00	0.00	H
ATOM	2745	HG22	THR	176	79.745	73.380	174.013	1.00	0.00	H
ATOM	2746	HG23	THR	176	81.472	73.334	174.444	1.00	0.00	H
ATOM	2747	HG1	THR	176	79.334	71.878	175.761	1.00	0.00	H
ATOM	2748	N	ARG	177	80.774	69.285	171.903	1.00	0.00	N
ATOM	2749	CA	ARG	177	81.244	68.776	170.609	1.00	0.00	C
ATOM	2750	C	ARG	177	80.095	68.353	169.690	1.00	0.00	C
ATOM	2751	O	ARG	177	80.062	68.767	168.530	1.00	0.00	O
ATOM	2752	CB	ARG	177	82.167	67.613	170.969	1.00	0.00	C
ATOM	2753	CG	ARG	177	82.763	66.813	169.810	1.00	0.00	C
ATOM	2754	CD	ARG	177	83.337	65.503	170.389	1.00	0.00	C
ATOM	2755	NE	ARG	177	84.391	65.858	171.371	1.00	0.00	N
ATOM	2756	CZ	ARG	177	85.600	65.322	171.414	1.00	0.00	C
ATOM	2757	NH1	ARG	177	85.890	64.305	170.666	1.00	0.00	N
ATOM	2758	NH2	ARG	177	86.523	65.790	172.205	1.00	0.00	N1+

ATOM	2759	H	ARG	177	81.050	68.769	172.727	1.00	0.00	H
ATOM	2760	HA	ARG	177	81.763	69.544	170.035	1.00	0.00	H
ATOM	2761	HB2	ARG	177	82.996	68.019	171.549	1.00	0.00	H
ATOM	2762	HB3	ARG	177	81.596	66.920	171.587	1.00	0.00	H
ATOM	2763	HG2	ARG	177	83.557	67.387	169.333	1.00	0.00	H
ATOM	2764	HG3	ARG	177	81.988	66.587	169.078	1.00	0.00	H
ATOM	2765	HD2	ARG	177	83.766	64.901	169.588	1.00	0.00	H
ATOM	2766	HD3	ARG	177	82.546	64.939	170.883	1.00	0.00	H
ATOM	2767	HE	ARG	177	84.169	66.563	172.059	1.00	0.00	H
ATOM	2768	HH11	ARG	177	86.812	63.896	170.706	1.00	0.00	H
ATOM	2769	HH12	ARG	177	85.194	63.921	170.043	1.00	0.00	H
ATOM	2770	HH21	ARG	177	86.323	66.579	172.803	1.00	0.00	H
ATOM	2771	HH22	ARG	177	87.439	65.364	172.220	1.00	0.00	H
ATOM	2772	N	PHE	178	79.119	67.615	170.221	1.00	0.00	N
ATOM	2773	CA	PHE	178	77.867	67.314	169.531	1.00	0.00	C
ATOM	2774	C	PHE	178	77.071	68.536	169.063	1.00	0.00	C

ATOM	2775	O	PHE	178	76.585	68.552	167.928	1.00	0.00	O
ATOM	2776	CB	PHE	178	77.026	66.283	170.309	1.00	0.00	C
ATOM	2777	CG	PHE	178	77.384	64.817	170.101	1.00	0.00	C
ATOM	2778	CD1	PHE	178	76.338	63.889	169.938	1.00	0.00	C
ATOM	2779	CD2	PHE	178	78.723	64.361	170.087	1.00	0.00	C
ATOM	2780	CE1	PHE	178	76.619	62.526	169.728	1.00	0.00	C
ATOM	2781	CE2	PHE	178	79.006	62.996	169.892	1.00	0.00	C
ATOM	2782	CZ	PHE	178	77.952	62.079	169.710	1.00	0.00	C
ATOM	2783	H	PHE	178	79.253	67.244	171.151	1.00	0.00	H
ATOM	2784	HA	PHE	178	78.159	66.845	168.591	1.00	0.00	H
ATOM	2785	HB2	PHE	178	77.133	66.502	171.371	1.00	0.00	H
ATOM	2786	HB3	PHE	178	75.985	66.415	170.014	1.00	0.00	H
ATOM	2787	HD1	PHE	178	75.312	64.225	169.974	1.00	0.00	H
ATOM	2788	HD2	PHE	178	79.532	65.063	170.227	1.00	0.00	H
ATOM	2789	HE1	PHE	178	75.812	61.824	169.581	1.00	0.00	H

ATOM	2790	HE2	PHE	178	80.030	62.652	169.882	1.00	0.00	H
ATOM	2791	HZ	PHE	178	78.168	61.032	169.557	1.00	0.00	H
ATOM	2792	N	PHE	179	77.060	69.618	169.851	1.00	0.00	N
ATOM	2793	CA	PHE	179	76.447	70.885	169.439	1.00	0.00	C
ATOM	2794	C	PHE	179	77.111	71.555	168.233	1.00	0.00	C
ATOM	2795	O	PHE	179	76.435	71.872	167.255	1.00	0.00	O
ATOM	2796	CB	PHE	179	76.252	71.835	170.632	1.00	0.00	C
ATOM	2797	CG	PHE	179	75.758	73.226	170.266	1.00	0.00	C
ATOM	2798	CD1	PHE	179	76.531	74.370	170.558	1.00	0.00	C
ATOM	2799	CD2	PHE	179	74.494	73.382	169.663	1.00	0.00	C
ATOM	2800	CE1	PHE	179	76.012	75.655	170.300	1.00	0.00	C
ATOM	2801	CE2	PHE	179	73.988	74.669	169.381	1.00	0.00	C
ATOM	2802	CZ	PHE	179	74.737	75.805	169.723	1.00	0.00	C
ATOM	2803	H	PHE	179	77.490	69.560	170.763	1.00	0.00	H
ATOM	2804	HA	PHE	179	75.455	70.623	169.071	1.00	0.00	H
ATOM	2805	HB2	PHE	179	75.526	71.385	171.309	1.00	0.00	H

ATOM	2806	HB3 PHE	179	77.209	71.939	171.143	1.00	0.00	H
ATOM	2807	HD1 PHE	179	77.520	74.261	170.979	1.00	0.00	H
ATOM	2808	HD2 PHE	179	73.908	72.510	169.415	1.00	0.00	H
ATOM	2809	HE1 PHE	179	76.596	76.529	170.546	1.00	0.00	H
ATOM	2810	HE2 PHE	179	73.026	74.779	168.903	1.00	0.00	H
ATOM	2811	HZ PHE	179	74.336	76.792	169.544	1.00	0.00	H
ATOM	2812	N THR	180	78.447	71.652	168.244	1.00	0.00	N
ATOM	2813	CA THR	180	79.238	72.173	167.114	1.00	0.00	C
ATOM	2814	C THR	180	79.015	71.364	165.832	1.00	0.00	C
ATOM	2815	O THR	180	78.727	71.952	164.788	1.00	0.00	O
ATOM	2816	CB THR	180	80.736	72.194	167.462	1.00	0.00	C
ATOM	2817	OG1 THR	180	80.947	72.951	168.630	1.00	0.00	O
ATOM	2818	CG2 THR	180	81.610	72.834	166.382	1.00	0.00	C
ATOM	2819	H THR	180	78.940	71.351	169.073	1.00	0.00	H
ATOM	2820	HA THR	180	78.895	73.191	166.931	1.00	0.00	H

ATOM	2821	HB	THR	180	81.017	71.147	167.576	1.00	0.00	H
ATOM	2822	HG21	THR	180	81.462	72.311	165.437	1.00	0.00	H
ATOM	2823	HG22	THR	180	81.333	73.882	166.264	1.00	0.00	H
ATOM	2824	HG23	THR	180	82.658	72.766	166.675	1.00	0.00	H
ATOM	2825	HG1	THR	180	80.676	73.853	168.444	1.00	0.00	H
ATOM	2826	N	PHE	181	79.050	70.028	165.904	1.00	0.00	N
ATOM	2827	CA	PHE	181	78.786	69.182	164.739	1.00	0.00	C
ATOM	2828	C	PHE	181	77.350	69.267	164.197	1.00	0.00	C
ATOM	2829	O	PHE	181	77.127	69.432	162.992	1.00	0.00	O
ATOM	2830	CB	PHE	181	79.232	67.740	165.004	1.00	0.00	C
ATOM	2831	CG	PHE	181	80.733	67.503	165.139	1.00	0.00	C
ATOM	2832	CD1	PHE	181	81.657	68.071	164.235	1.00	0.00	C
ATOM	2833	CD2	PHE	181	81.205	66.663	166.166	1.00	0.00	C
ATOM	2834	CE1	PHE	181	83.033	67.820	164.374	1.00	0.00	C
ATOM	2835	CE2	PHE	181	82.581	66.387	166.285	1.00	0.00	C
ATOM	2836	CZ	PHE	181	83.496	66.974	165.399	1.00	0.00	C

ATOM	2837	H	PHE	181	79.265	69.590	166.789	1.00	0.00	H
ATOM	2838	HA	PHE	181	79.394	69.586	163.930	1.00	0.00	H
ATOM	2839	HB2	PHE	181	78.761	67.413	165.931	1.00	0.00	H
ATOM	2840	HB3	PHE	181	78.873	67.126	164.178	1.00	0.00	H
ATOM	2841	HD1	PHE	181	81.305	68.702	163.432	1.00	0.00	H
ATOM	2842	HD2	PHE	181	80.508	66.228	166.867	1.00	0.00	H
ATOM	2843	HE1	PHE	181	83.736	68.277	163.693	1.00	0.00	H
ATOM	2844	HE2	PHE	181	82.932	65.722	167.060	1.00	0.00	H
ATOM	2845	HZ	PHE	181	84.553	66.777	165.503	1.00	0.00	H
ATOM	2846	N	HIS	182	76.379	69.325	165.101	1.00	0.00	N
ATOM	2847	CA	HIS	182	74.955	69.530	164.802	1.00	0.00	C
ATOM	2848	C	HIS	182	74.660	70.889	164.119	1.00	0.00	C
ATOM	2849	O	HIS	182	73.688	71.015	163.370	1.00	0.00	O
ATOM	2850	CB	HIS	182	74.205	69.412	166.138	1.00	0.00	C
ATOM	2851	CG	HIS	182	72.730	69.336	165.849	1.00	0.00	C

ATOM	2852	ND1	HIS	182	72.172	68.260	165.265	1.00	0.00	N
ATOM	2853	CD2	HIS	182	71.788	70.267	166.106	1.00	0.00	C
ATOM	2854	CE1	HIS	182	70.913	68.533	165.164	1.00	0.00	C
ATOM	2855	NE2	HIS	182	70.607	69.755	165.670	1.00	0.00	N
ATOM	2856	H	HIS	182	76.640	69.220	166.071	1.00	0.00	H
ATOM	2857	HA	HIS	182	74.625	68.779	164.084	1.00	0.00	H
ATOM	2858	HB2	HIS	182	74.415	70.285	166.756	1.00	0.00	H
ATOM	2859	HB3	HIS	182	74.525	68.511	166.661	1.00	0.00	H
ATOM	2860	HD2	HIS	182	71.942	71.231	166.568	1.00	0.00	H
ATOM	2861	HE1	HIS	182	70.186	67.865	164.726	1.00	0.00	H
ATOM	2862	N	PHE	183	75.512	71.901	164.333	1.00	0.00	N
ATOM	2863	CA	PHE	183	75.326	73.256	163.803	1.00	0.00	C
ATOM	2864	C	PHE	183	75.945	73.302	162.387	1.00	0.00	C
ATOM	2865	O	PHE	183	75.384	73.934	161.497	1.00	0.00	O
ATOM	2866	CB	PHE	183	76.058	74.235	164.746	1.00	0.00	C
ATOM	2867	CG	PHE	183	75.537	75.666	164.723	1.00	0.00	C

ATOM	2868	CD1 PHE	183	75.604	76.442	163.550	1.00	0.00	C
ATOM	2869	CD2 PHE	183	75.003	76.233	165.896	1.00	0.00	C
ATOM	2870	CE1 PHE	183	75.101	77.758	163.535	1.00	0.00	C
ATOM	2871	CE2 PHE	183	74.526	77.556	165.889	1.00	0.00	C
ATOM	2872	CZ PHE	183	74.562	78.314	164.705	1.00	0.00	C
ATOM	2873	H PHE	183	76.332	71.720	164.894	1.00	0.00	H
ATOM	2874	HA PHE	183	74.273	73.529	163.744	1.00	0.00	H
ATOM	2875	HB2 PHE	183	75.963	73.858	165.764	1.00	0.00	H
ATOM	2876	HB3 PHE	183	77.110	74.254	164.462	1.00	0.00	H
ATOM	2877	HD1 PHE	183	76.044	76.026	162.656	1.00	0.00	H
ATOM	2878	HD2 PHE	183	74.960	75.650	166.804	1.00	0.00	H
ATOM	2879	HE1 PHE	183	75.130	78.338	162.624	1.00	0.00	H
ATOM	2880	HE2 PHE	183	74.131	77.991	166.795	1.00	0.00	H
ATOM	2881	HZ PHE	183	74.175	79.322	164.696	1.00	0.00	H
ATOM	2882	N ILE	184	77.102	72.662	162.144	1.00	0.00	N

ATOM	2883	CA	ILE	184	77.799	72.778	160.843	1.00	0.00	C
ATOM	2884	C	ILE	184	77.282	71.795	159.776	1.00	0.00	C
ATOM	2885	O	ILE	184	77.189	72.168	158.603	1.00	0.00	O
ATOM	2886	CB	ILE	184	79.332	72.711	161.035	1.00	0.00	C
ATOM	2887	CG1	ILE	184	80.047	73.113	159.723	1.00	0.00	C
ATOM	2888	CG2	ILE	184	79.817	71.321	161.485	1.00	0.00	C
ATOM	2889	CD1	ILE	184	81.537	73.434	159.904	1.00	0.00	C
ATOM	2890	H	ILE	184	77.507	72.086	162.869	1.00	0.00	H
ATOM	2891	HA	ILE	184	77.560	73.763	160.441	1.00	0.00	H
ATOM	2892	HB	ILE	184	79.583	73.413	161.830	1.00	0.00	H
ATOM	2893	HG12	ILE	184	79.956	72.289	159.016	1.00	0.00	H
ATOM	2894	HG13	ILE	184	79.552	73.996	159.318	1.00	0.00	H
ATOM	2895	HG21	ILE	184	79.316	71.044	162.413	1.00	0.00	H
ATOM	2896	HG22	ILE	184	79.584	70.587	160.713	1.00	0.00	H
ATOM	2897	HG23	ILE	184	80.894	71.347	161.648	1.00	0.00	H
ATOM	2898	HD11	ILE	184	81.647	74.272	160.592	1.00	0.00	H

ATOM	2899	HD12	ILE	184	82.050	72.562	160.309	1.00	0.00	H
ATOM	2900	HD13	ILE	184	81.972	73.696	158.940	1.00	0.00	H
ATOM	2901	N	LEU	185	76.898	70.567	160.152	1.00	0.00	N
ATOM	2902	CA	LEU	185	76.456	69.545	159.189	1.00	0.00	C
ATOM	2903	C	LEU	185	75.252	69.968	158.314	1.00	0.00	C
ATOM	2904	O	LEU	185	75.291	69.677	157.118	1.00	0.00	O
ATOM	2905	CB	LEU	185	76.182	68.212	159.913	1.00	0.00	C
ATOM	2906	CG	LEU	185	77.443	67.358	160.160	1.00	0.00	C
ATOM	2907	CD1	LEU	185	77.096	66.188	161.088	1.00	0.00	C
ATOM	2908	CD2	LEU	185	77.987	66.769	158.848	1.00	0.00	C
ATOM	2909	H	LEU	185	76.912	70.334	161.135	1.00	0.00	H
ATOM	2910	HA	LEU	185	77.280	69.416	158.487	1.00	0.00	H
ATOM	2911	HB2	LEU	185	75.725	68.434	160.877	1.00	0.00	H
ATOM	2912	HB3	LEU	185	75.488	67.630	159.307	1.00	0.00	H
ATOM	2913	HG	LEU	185	78.197	68.006	160.606	1.00	0.00	H

ATOM	2914	HD11	LEU	185	76.708	66.574	162.030	1.00	0.00	H
ATOM	2915	HD12	LEU	185	76.341	65.560	160.614	1.00	0.00	H
ATOM	2916	HD13	LEU	185	77.992	65.597	161.279	1.00	0.00	H
ATOM	2917	HD21	LEU	185	77.233	66.121	158.401	1.00	0.00	H
ATOM	2918	HD22	LEU	185	78.226	67.578	158.158	1.00	0.00	H
ATOM	2919	HD23	LEU	185	78.887	66.191	159.055	1.00	0.00	H
ATOM	2920	N	PRO	186	74.236	70.708	158.800	1.00	0.00	N
ATOM	2921	CA	PRO	186	73.099	71.156	157.976	1.00	0.00	C
ATOM	2922	C	PRO	186	73.470	72.104	156.826	1.00	0.00	C
ATOM	2923	O	PRO	186	72.842	72.051	155.767	1.00	0.00	O
ATOM	2924	CB	PRO	186	72.110	71.797	158.953	1.00	0.00	C
ATOM	2925	CG	PRO	186	72.417	71.029	160.235	1.00	0.00	C
ATOM	2926	CD	PRO	186	73.928	70.921	160.200	1.00	0.00	C
ATOM	2927	HA	PRO	186	72.671	70.301	157.452	1.00	0.00	H
ATOM	2928	HB2	PRO	186	72.300	72.864	159.071	1.00	0.00	H
ATOM	2929	HB3	PRO	186	71.079	71.645	158.634	1.00	0.00	H

ATOM	2930	HG2 PRO	186	71.951	70.043	160.225	1.00	0.00	H
ATOM	2931	HG3 PRO	186	72.082	71.580	161.114	1.00	0.00	H
ATOM	2932	HD2 PRO	186	74.270	70.080	160.803	1.00	0.00	H
ATOM	2933	HD3 PRO	186	74.390	71.839	160.562	1.00	0.00	H
ATOM	2934	N PHE	187	74.544	72.889	156.975	1.00	0.00	N
ATOM	2935	CA PHE	187	75.055	73.745	155.900	1.00	0.00	C
ATOM	2936	C PHE	187	75.864	72.942	154.862	1.00	0.00	C
ATOM	2937	O PHE	187	75.755	73.198	153.663	1.00	0.00	O
ATOM	2938	CB PHE	187	75.874	74.900	156.500	1.00	0.00	C
ATOM	2939	CG PHE	187	75.128	75.774	157.501	1.00	0.00	C
ATOM	2940	CD1 PHE	187	75.670	75.976	158.788	1.00	0.00	C
ATOM	2941	CD2 PHE	187	73.888	76.357	157.173	1.00	0.00	C
ATOM	2942	CE1 PHE	187	74.982	76.754	159.730	1.00	0.00	C
ATOM	2943	CE2 PHE	187	73.189	77.122	158.130	1.00	0.00	C
ATOM	2944	CZ PHE	187	73.735	77.319	159.409	1.00	0.00	C

ATOM	2945	H	PHE	187	75.022	72.892	157.865	1.00	0.00	H
ATOM	2946	HA	PHE	187	74.207	74.168	155.361	1.00	0.00	H
ATOM	2947	HB2	PHE	187	76.740	74.472	157.006	1.00	0.00	H
ATOM	2948	HB3	PHE	187	76.209	75.536	155.681	1.00	0.00	H
ATOM	2949	HD1	PHE	187	76.618	75.530	159.048	1.00	0.00	H
ATOM	2950	HD2	PHE	187	73.472	76.218	156.186	1.00	0.00	H
ATOM	2951	HE1	PHE	187	75.412	76.920	160.707	1.00	0.00	H
ATOM	2952	HE2	PHE	187	72.233	77.557	157.879	1.00	0.00	H
ATOM	2953	HZ	PHE	187	73.199	77.902	160.143	1.00	0.00	H
ATOM	2954	N	ILE	188	76.568	71.888	155.300	1.00	0.00	N
ATOM	2955	CA	ILE	188	77.206	70.898	154.411	1.00	0.00	C
ATOM	2956	C	ILE	188	76.150	70.072	153.648	1.00	0.00	C
ATOM	2957	O	ILE	188	76.268	69.894	152.436	1.00	0.00	O
ATOM	2958	CB	ILE	188	78.192	70.022	155.220	1.00	0.00	C
ATOM	2959	CG1	ILE	188	79.408	70.857	155.686	1.00	0.00	C
ATOM	2960	CG2	ILE	188	78.681	68.801	154.414	1.00	0.00	C

ATOM	2961	CD1	ILE	188	80.128	70.251	156.898	1.00	0.00	C
ATOM	2962	H	ILE	188	76.667	71.764	156.297	1.00	0.00	H
ATOM	2963	HA	ILE	188	77.786	71.419	153.649	1.00	0.00	H
ATOM	2964	HB	ILE	188	77.648	69.654	156.090	1.00	0.00	H
ATOM	2965	HG12	ILE	188	80.117	70.927	154.861	1.00	0.00	H
ATOM	2966	HG13	ILE	188	79.061	71.855	155.953	1.00	0.00	H
ATOM	2967	HG21	ILE	188	77.823	68.207	154.098	1.00	0.00	H
ATOM	2968	HG22	ILE	188	79.230	69.141	153.536	1.00	0.00	H
ATOM	2969	HG23	ILE	188	79.335	68.192	155.038	1.00	0.00	H
ATOM	2970	HD11	ILE	188	79.437	70.192	157.739	1.00	0.00	H
ATOM	2971	HD12	ILE	188	80.482	69.251	156.648	1.00	0.00	H
ATOM	2972	HD13	ILE	188	80.977	70.879	157.168	1.00	0.00	H
ATOM	2973	N	ILE	189	75.052	69.682	154.312	1.00	0.00	N
ATOM	2974	CA	ILE	189	73.872	69.055	153.690	1.00	0.00	C
ATOM	2975	C	ILE	189	73.255	69.961	152.615	1.00	0.00	C

ATOM	2976	O	ILE	189	72.920	69.475	151.538	1.00	0.00	O
ATOM	2977	CB	ILE	189	72.840	68.667	154.785	1.00	0.00	C
ATOM	2978	CG1	ILE	189	73.340	67.442	155.583	1.00	0.00	C
ATOM	2979	CG2	ILE	189	71.433	68.372	154.226	1.00	0.00	C
ATOM	2980	CD1	ILE	189	72.642	67.263	156.943	1.00	0.00	C
ATOM	2981	H	ILE	189	75.032	69.829	155.311	1.00	0.00	H
ATOM	2982	HA	ILE	189	74.188	68.144	153.182	1.00	0.00	H
ATOM	2983	HB	ILE	189	72.751	69.536	155.437	1.00	0.00	H
ATOM	2984	HG12	ILE	189	73.165	66.547	154.986	1.00	0.00	H
ATOM	2985	HG13	ILE	189	74.410	67.558	155.758	1.00	0.00	H
ATOM	2986	HG21	ILE	189	71.076	69.237	153.666	1.00	0.00	H
ATOM	2987	HG22	ILE	189	71.479	67.506	153.566	1.00	0.00	H
ATOM	2988	HG23	ILE	189	70.750	68.165	155.050	1.00	0.00	H
ATOM	2989	HD11	ILE	189	72.825	68.140	157.564	1.00	0.00	H
ATOM	2990	HD12	ILE	189	71.570	67.145	156.788	1.00	0.00	H
ATOM	2991	HD13	ILE	189	73.037	66.377	157.440	1.00	0.00	H

ATOM	2992	N	ALA	190	73.168	71.278	152.852	1.00	0.00	N
ATOM	2993	CA	ALA	190	72.663	72.229	151.857	1.00	0.00	C
ATOM	2994	C	ALA	190	73.559	72.312	150.604	1.00	0.00	C
ATOM	2995	O	ALA	190	73.047	72.203	149.490	1.00	0.00	O
ATOM	2996	CB	ALA	190	72.473	73.598	152.528	1.00	0.00	C
ATOM	2997	H	ALA	190	73.462	71.629	153.752	1.00	0.00	H
ATOM	2998	HA	ALA	190	71.699	71.873	151.493	1.00	0.00	H
ATOM	2999	HB1	ALA	190	71.779	73.500	153.363	1.00	0.00	H
ATOM	3000	HB2	ALA	190	73.434	73.959	152.895	1.00	0.00	H
ATOM	3001	HB3	ALA	190	72.071	74.306	151.803	1.00	0.00	H
ATOM	3002	N	ALA	191	74.887	72.370	150.762	1.00	0.00	N
ATOM	3003	CA	ALA	191	75.825	72.349	149.633	1.00	0.00	C
ATOM	3004	C	ALA	191	75.783	71.016	148.849	1.00	0.00	C
ATOM	3005	O	ALA	191	75.748	71.011	147.613	1.00	0.00	O
ATOM	3006	CB	ALA	191	77.229	72.645	150.178	1.00	0.00	C

ATOM	3007	H	ALA	191	75.260	72.431	151.699	1.00	0.00	H
ATOM	3008	HA	ALA	191	75.535	73.113	148.912	1.00	0.00	H
ATOM	3009	HB1	ALA	191	77.231	73.619	150.668	1.00	0.00	H
ATOM	3010	HB2	ALA	191	77.509	71.875	150.897	1.00	0.00	H
ATOM	3011	HB3	ALA	191	77.944	72.651	149.355	1.00	0.00	H
ATOM	3012	N	LEU	192	75.664	69.882	149.553	1.00	0.00	N
ATOM	3013	CA	LEU	192	75.447	68.566	148.943	1.00	0.00	C
ATOM	3014	C	LEU	192	74.085	68.473	148.229	1.00	0.00	C
ATOM	3015	O	LEU	192	74.000	67.869	147.165	1.00	0.00	O
ATOM	3016	CB	LEU	192	75.583	67.481	150.030	1.00	0.00	C
ATOM	3017	CG	LEU	192	77.025	67.271	150.520	1.00	0.00	C
ATOM	3018	CD1	LEU	192	77.001	66.479	151.830	1.00	0.00	C
ATOM	3019	CD2	LEU	192	77.872	66.499	149.501	1.00	0.00	C
ATOM	3020	H	LEU	192	75.727	69.937	150.560	1.00	0.00	H
ATOM	3021	HA	LEU	192	76.204	68.410	148.175	1.00	0.00	H
ATOM	3022	HB2	LEU	192	74.969	67.770	150.883	1.00	0.00	H

ATOM	3023	HB3 LEU	192	75.218	66.538	149.622	1.00	0.00	H
ATOM	3024	HG LEU	192	77.472	68.255	150.662	1.00	0.00	H
ATOM	3025	HD11 LEU	192	76.416	67.022	152.572	1.00	0.00	H
ATOM	3026	HD12 LEU	192	76.550	65.502	151.656	1.00	0.00	H
ATOM	3027	HD13 LEU	192	78.020	66.349	152.195	1.00	0.00	H
ATOM	3028	HD21 LEU	192	77.441	65.510	149.345	1.00	0.00	H
ATOM	3029	HD22 LEU	192	77.888	67.042	148.556	1.00	0.00	H
ATOM	3030	HD23 LEU	192	78.890	66.396	149.878	1.00	0.00	H
ATOM	3031	N ALA	193	73.043	69.146	148.730	1.00	0.00	N
ATOM	3032	CA ALA	193	71.740	69.241	148.070	1.00	0.00	C
ATOM	3033	C ALA	193	71.782	70.114	146.798	1.00	0.00	C
ATOM	3034	O ALA	193	71.058	69.823	145.844	1.00	0.00	O
ATOM	3035	CB ALA	193	70.695	69.722	149.083	1.00	0.00	C
ATOM	3036	H ALA	193	73.162	69.616	149.616	1.00	0.00	H
ATOM	3037	HA ALA	193	71.453	68.249	147.720	1.00	0.00	H

ATOM	3038	HB1 ALA	193	70.657	69.028	149.923	1.00	0.00	H
ATOM	3039	HB2 ALA	193	70.968	70.714	149.443	1.00	0.00	H
ATOM	3040	HB3 ALA	193	69.717	69.766	148.603	1.00	0.00	H
ATOM	3041	N THR	194	72.696	71.090	146.704	1.00	0.00	N
ATOM	3042	CA THR	194	72.979	71.807	145.447	1.00	0.00	C
ATOM	3043	C THR	194	73.679	70.905	144.423	1.00	0.00	C
ATOM	3044	O THR	194	73.270	70.873	143.263	1.00	0.00	O
ATOM	3045	CB THR	194	73.815	73.072	145.698	1.00	0.00	C
ATOM	3046	OG1 THR	194	73.247	73.853	146.726	1.00	0.00	O
ATOM	3047	CG2 THR	194	73.890	73.970	144.461	1.00	0.00	C
ATOM	3048	H THR	194	73.215	71.346	147.532	1.00	0.00	H
ATOM	3049	HA THR	194	72.016	72.106	145.032	1.00	0.00	H
ATOM	3050	HB THR	194	74.811	72.720	145.967	1.00	0.00	H
ATOM	3051	HG21 THR	194	74.307	73.406	143.627	1.00	0.00	H
ATOM	3052	HG22 THR	194	72.889	74.316	144.202	1.00	0.00	H
ATOM	3053	HG23 THR	194	74.527	74.828	144.673	1.00	0.00	H

ATOM	3054	HG1 THR	194	72.377	74.132	146.432	1.00	0.00	H
ATOM	3055	N LEU	195	74.656	70.095	144.851	1.00	0.00	N
ATOM	3056	CA LEU	195	75.329	69.110	143.995	1.00	0.00	C
ATOM	3057	C LEU	195	74.391	67.979	143.529	1.00	0.00	C
ATOM	3058	O LEU	195	74.409	67.585	142.364	1.00	0.00	O
ATOM	3059	CB LEU	195	76.557	68.573	144.755	1.00	0.00	C
ATOM	3060	CG LEU	195	77.393	67.539	143.975	1.00	0.00	C
ATOM	3061	CD1 LEU	195	77.974	68.130	142.687	1.00	0.00	C
ATOM	3062	CD2 LEU	195	78.554	67.067	144.851	1.00	0.00	C
ATOM	3063	H LEU	195	74.946	70.166	145.816	1.00	0.00	H
ATOM	3064	HA LEU	195	75.650	69.599	143.075	1.00	0.00	H
ATOM	3065	HB2 LEU	195	77.202	69.417	144.999	1.00	0.00	H
ATOM	3066	HB3 LEU	195	76.209	68.104	145.675	1.00	0.00	H
ATOM	3067	HG LEU	195	76.734	66.712	143.712	1.00	0.00	H
ATOM	3068	HD11 LEU	195	77.163	68.489	142.054	1.00	0.00	H

ATOM	3069	HD12	LEU	195	78.637	68.959	142.934	1.00	0.00	H
ATOM	3070	HD13	LEU	195	78.536	67.362	142.156	1.00	0.00	H
ATOM	3071	HD21	LEU	195	79.193	67.916	145.096	1.00	0.00	H
ATOM	3072	HD22	LEU	195	78.162	66.630	145.770	1.00	0.00	H
ATOM	3073	HD23	LEU	195	79.135	66.318	144.312	1.00	0.00	H
ATOM	3074	N	HIS	196	73.496	67.532	144.401	1.00	0.00	N
ATOM	3075	CA	HIS	196	72.391	66.610	144.094	1.00	0.00	C
ATOM	3076	C	HIS	196	71.477	67.131	142.955	1.00	0.00	C
ATOM	3077	O	HIS	196	71.218	66.432	141.970	1.00	0.00	O
ATOM	3078	CB	HIS	196	71.601	66.468	145.405	1.00	0.00	C
ATOM	3079	CG	HIS	196	70.535	65.412	145.282	1.00	0.00	C
ATOM	3080	ND1	HIS	196	70.713	64.228	144.660	1.00	0.00	N
ATOM	3081	CD2	HIS	196	69.310	65.464	145.856	1.00	0.00	C
ATOM	3082	CE1	HIS	196	69.609	63.574	144.848	1.00	0.00	C
ATOM	3083	NE2	HIS	196	68.707	64.270	145.591	1.00	0.00	N
ATOM	3084	H	HIS	196	73.580	67.851	145.355	1.00	0.00	H

ATOM	3085	HA	HIS	196	72.777	65.656	143.736	1.00	0.00	H
ATOM	3086	HB2	HIS	196	71.131	67.422	145.643	1.00	0.00	H
ATOM	3087	HB3	HIS	196	72.287	66.191	146.206	1.00	0.00	H
ATOM	3088	HD2	HIS	196	68.892	66.289	146.414	1.00	0.00	H
ATOM	3089	HE1	HIS	196	69.426	62.584	144.457	1.00	0.00	H
ATOM	3090	N	LEU	197	71.079	68.412	143.034	1.00	0.00	N
ATOM	3091	CA	LEU	197	70.327	69.115	141.992	1.00	0.00	C
ATOM	3092	C	LEU	197	71.127	69.243	140.693	1.00	0.00	C
ATOM	3093	O	LEU	197	70.594	68.947	139.612	1.00	0.00	O
ATOM	3094	CB	LEU	197	69.914	70.504	142.529	1.00	0.00	C
ATOM	3095	CG	LEU	197	68.417	70.812	142.395	1.00	0.00	C
ATOM	3096	CD1	LEU	197	67.564	69.820	143.194	1.00	0.00	C
ATOM	3097	CD2	LEU	197	68.120	72.217	142.951	1.00	0.00	C
ATOM	3098	H	LEU	197	71.315	68.926	143.871	1.00	0.00	H
ATOM	3099	HA	LEU	197	69.438	68.534	141.749	1.00	0.00	H

ATOM	3100	HB2 LEU	197	70.180	70.555	143.585	1.00	0.00	H
ATOM	3101	HB3 LEU	197	70.469	71.262	141.977	1.00	0.00	H
ATOM	3102	HG LEU	197	68.170	70.742	141.336	1.00	0.00	H
ATOM	3103	HD11 LEU	197	67.762	68.807	142.844	1.00	0.00	H
ATOM	3104	HD12 LEU	197	67.815	69.895	144.252	1.00	0.00	H
ATOM	3105	HD13 LEU	197	66.509	70.053	143.054	1.00	0.00	H
ATOM	3106	HD21 LEU	197	68.379	72.251	144.009	1.00	0.00	H
ATOM	3107	HD22 LEU	197	68.711	72.955	142.409	1.00	0.00	H
ATOM	3108	HD23 LEU	197	67.060	72.440	142.829	1.00	0.00	H
ATOM	3109	N LEU	198	72.412	69.597	140.788	1.00	0.00	N
ATOM	3110	CA LEU	198	73.292	69.747	139.632	1.00	0.00	C
ATOM	3111	C LEU	198	73.385	68.448	138.819	1.00	0.00	C
ATOM	3112	O LEU	198	73.118	68.464	137.618	1.00	0.00	O
ATOM	3113	CB LEU	198	74.664	70.257	140.117	1.00	0.00	C
ATOM	3114	CG LEU	198	75.708	70.443	138.997	1.00	0.00	C
ATOM	3115	CD1 LEU	198	75.252	71.467	137.953	1.00	0.00	C

ATOM	3116	CD2	LEU	198	77.022	70.933	139.609	1.00	0.00	C
ATOM	3117	H	LEU	198	72.794	69.770	141.707	1.00	0.00	H
ATOM	3118	HA	LEU	198	72.877	70.484	138.945	1.00	0.00	H
ATOM	3119	HB2	LEU	198	74.516	71.219	140.608	1.00	0.00	H
ATOM	3120	HB3	LEU	198	75.060	69.539	140.836	1.00	0.00	H
ATOM	3121	HG	LEU	198	75.837	69.480	138.504	1.00	0.00	H
ATOM	3122	HD11	LEU	198	74.307	71.144	137.516	1.00	0.00	H
ATOM	3123	HD12	LEU	198	75.118	72.438	138.430	1.00	0.00	H
ATOM	3124	HD13	LEU	198	76.006	71.548	137.170	1.00	0.00	H
ATOM	3125	HD21	LEU	198	76.860	71.896	140.093	1.00	0.00	H
ATOM	3126	HD22	LEU	198	77.372	70.210	140.346	1.00	0.00	H
ATOM	3127	HD23	LEU	198	77.770	71.042	138.824	1.00	0.00	H
ATOM	3128	N	PHE	199	73.594	67.304	139.484	1.00	0.00	N
ATOM	3129	CA	PHE	199	73.514	65.993	138.829	1.00	0.00	C
ATOM	3130	C	PHE	199	72.157	65.611	138.229	1.00	0.00	C

ATOM	3131	O	PHE	199	72.096	65.072	137.125	1.00	0.00	O
ATOM	3132	CB	PHE	199	74.099	64.874	139.702	1.00	0.00	C
ATOM	3133	CG	PHE	199	75.610	64.835	139.774	1.00	0.00	C
ATOM	3134	CD1	PHE	199	76.365	64.524	138.619	1.00	0.00	C
ATOM	3135	CD2	PHE	199	76.265	65.043	141.004	1.00	0.00	C
ATOM	3136	CE1	PHE	199	77.766	64.418	138.704	1.00	0.00	C
ATOM	3137	CE2	PHE	199	77.664	64.932	141.087	1.00	0.00	C
ATOM	3138	CZ	PHE	199	78.415	64.623	139.934	1.00	0.00	C
ATOM	3139	H	PHE	199	73.814	67.345	140.469	1.00	0.00	H
ATOM	3140	HA	PHE	199	74.148	66.113	137.951	1.00	0.00	H
ATOM	3141	HB2	PHE	199	73.717	65.002	140.715	1.00	0.00	H
ATOM	3142	HB3	PHE	199	73.756	63.920	139.302	1.00	0.00	H
ATOM	3143	HD1	PHE	199	75.867	64.368	137.673	1.00	0.00	H
ATOM	3144	HD2	PHE	199	75.691	65.288	141.885	1.00	0.00	H
ATOM	3145	HE1	PHE	199	78.343	64.179	137.823	1.00	0.00	H
ATOM	3146	HE2	PHE	199	78.163	65.083	142.033	1.00	0.00	H

ATOM	3147	HZ	PHE	199	79.490	64.544	139.996	1.00	0.00	H
ATOM	3148	N	LEU	200	71.059	65.926	138.927	1.00	0.00	N
ATOM	3149	CA	LEU	200	69.711	65.711	138.389	1.00	0.00	C
ATOM	3150	C	LEU	200	69.479	66.523	137.106	1.00	0.00	C
ATOM	3151	O	LEU	200	68.897	66.010	136.149	1.00	0.00	O
ATOM	3152	CB	LEU	200	68.671	66.045	139.476	1.00	0.00	C
ATOM	3153	CG	LEU	200	67.209	65.859	139.015	1.00	0.00	C
ATOM	3154	CD1	LEU	200	66.911	64.395	138.667	1.00	0.00	C
ATOM	3155	CD2	LEU	200	66.248	66.295	140.131	1.00	0.00	C
ATOM	3156	H	LEU	200	71.161	66.323	139.850	1.00	0.00	H
ATOM	3157	HA	LEU	200	69.602	64.663	138.111	1.00	0.00	H
ATOM	3158	HB2	LEU	200	68.847	65.394	140.332	1.00	0.00	H
ATOM	3159	HB3	LEU	200	68.808	67.084	139.775	1.00	0.00	H
ATOM	3160	HG	LEU	200	67.068	66.472	138.125	1.00	0.00	H
ATOM	3161	HD11	LEU	200	67.589	64.063	137.881	1.00	0.00	H

ATOM	3162	HD12	LEU	200	67.050	63.775	139.553	1.00	0.00	H
ATOM	3163	HD13	LEU	200	65.882	64.306	138.320	1.00	0.00	H
ATOM	3164	HD21	LEU	200	66.405	65.670	141.010	1.00	0.00	H
ATOM	3165	HD22	LEU	200	66.438	67.337	140.387	1.00	0.00	H
ATOM	3166	HD23	LEU	200	65.219	66.187	139.788	1.00	0.00	H
ATOM	3167	N	HIS	201	69.962	67.767	137.042	1.00	0.00	N
ATOM	3168	CA	HIS	201	69.719	68.668	135.905	1.00	0.00	C
ATOM	3169	C	HIS	201	70.509	68.349	134.622	1.00	0.00	C
ATOM	3170	O	HIS	201	70.081	68.788	133.560	1.00	0.00	O
ATOM	3171	CB	HIS	201	69.794	70.140	136.377	1.00	0.00	C
ATOM	3172	CG	HIS	201	68.663	70.584	137.300	1.00	0.00	C
ATOM	3173	ND1	HIS	201	68.646	71.775	138.033	1.00	0.00	N
ATOM	3174	CD2	HIS	201	67.481	69.927	137.530	1.00	0.00	C
ATOM	3175	CE1	HIS	201	67.476	71.789	138.698	1.00	0.00	C
ATOM	3176	NE2	HIS	201	66.748	70.698	138.401	1.00	0.00	N
ATOM	3177	H	HIS	201	70.521	68.105	137.812	1.00	0.00	H

ATOM	3178	HA	HIS	201	68.701	68.484	135.562	1.00	0.00	H
ATOM	3179	HB2	HIS	201	69.779	70.779	135.494	1.00	0.00	H
ATOM	3180	HB3	HIS	201	70.736	70.276	136.908	1.00	0.00	H
ATOM	3181	HD2	HIS	201	67.182	68.980	137.106	1.00	0.00	H
ATOM	3182	HE2	HIS	201	65.827	70.483	138.755	1.00	0.00	H
ATOM	3183	HE1	HIS	201	67.165	72.569	139.377	1.00	0.00	H
ATOM	3184	N	GLU	202	71.436	67.386	134.661	1.00	0.00	N
ATOM	3185	CA	GLU	202	71.988	66.718	133.467	1.00	0.00	C
ATOM	3186	C	GLU	202	70.956	65.849	132.708	1.00	0.00	C
ATOM	3187	O	GLU	202	71.224	65.397	131.587	1.00	0.00	O
ATOM	3188	CB	GLU	202	73.173	65.818	133.878	1.00	0.00	C
ATOM	3189	CG	GLU	202	74.369	66.585	134.458	1.00	0.00	C
ATOM	3190	CD	GLU	202	75.035	67.465	133.395	1.00	0.00	C
ATOM	3191	OE1	GLU	202	74.776	68.689	133.422	1.00	0.00	O
ATOM	3192	OE2	GLU	202	75.778	66.901	132.562	1.00	0.00	O1-

ATOM	3193	H	GLU	202	71.780	67.098	135.566	1.00	0.00	H
ATOM	3194	HA	GLU	202	72.303	67.515	132.793	1.00	0.00	H
ATOM	3195	HB2	GLU	202	72.822	65.112	134.630	1.00	0.00	H
ATOM	3196	HB3	GLU	202	73.511	65.273	132.997	1.00	0.00	H
ATOM	3197	HG2	GLU	202	75.100	65.870	134.836	1.00	0.00	H
ATOM	3198	HG3	GLU	202	74.023	67.217	135.276	1.00	0.00	H
ATOM	3199	N	THR	203	69.789	65.575	133.314	1.00	0.00	N
ATOM	3200	CA	THR	203	68.779	64.626	132.799	1.00	0.00	C
ATOM	3201	C	THR	203	67.326	65.091	132.969	1.00	0.00	C
ATOM	3202	O	THR	203	66.491	64.856	132.092	1.00	0.00	O
ATOM	3203	CB	THR	203	68.943	63.243	133.465	1.00	0.00	C
ATOM	3204	OG1	THR	203	68.916	63.343	134.888	1.00	0.00	O
ATOM	3205	CG2	THR	203	70.255	62.535	133.093	1.00	0.00	C
ATOM	3206	H	THR	203	69.587	66.050	134.182	1.00	0.00	H
ATOM	3207	HA	THR	203	68.968	64.567	131.727	1.00	0.00	H
ATOM	3208	HB	THR	203	68.102	62.660	133.091	1.00	0.00	H

ATOM	3209	HG21	THR	203	70.325	62.446	132.009	1.00	0.00	H
ATOM	3210	HG22	THR	203	71.099	63.115	133.465	1.00	0.00	H
ATOM	3211	HG23	THR	203	70.271	61.541	133.541	1.00	0.00	H
ATOM	3212	HG1	THR	203	69.676	63.864	135.157	1.00	0.00	H
ATOM	3213	N	GLY	204	67.024	65.802	134.059	1.00	0.00	N
ATOM	3214	CA	GLY	204	65.665	66.106	134.499	1.00	0.00	C
ATOM	3215	C	GLY	204	65.017	64.900	135.183	1.00	0.00	C
ATOM	3216	O	GLY	204	65.453	63.746	135.032	1.00	0.00	O
ATOM	3217	H	GLY	204	67.789	66.154	134.617	1.00	0.00	H
ATOM	3218	HA2	GLY	204	65.698	66.938	135.203	1.00	0.00	H
ATOM	3219	HA3	GLY	204	65.066	66.387	133.633	1.00	0.00	H
ATOM	3220	N	SER	205	63.939	65.130	135.961	1.00	0.00	N
ATOM	3221	CA	SER	205	63.308	64.035	136.720	1.00	0.00	C
ATOM	3222	C	SER	205	62.757	62.925	135.760	1.00	0.00	C
ATOM	3223	O	SER	205	62.257	63.171	134.637	1.00	0.00	O

ATOM	3224	CB	SER	205	62.257	64.499	137.767	1.00	0.00	C
ATOM	3225	OG	SER	205	62.694	64.456	139.162	1.00	0.00	O
ATOM	3226	H	SER	205	63.560	66.064	136.024	1.00	0.00	H
ATOM	3227	HA	SER	205	64.103	63.593	137.321	1.00	0.00	H
ATOM	3228	HB2	SER	205	61.381	63.858	137.670	1.00	0.00	H
ATOM	3229	HB3	SER	205	61.982	65.527	137.533	1.00	0.00	H
ATOM	3230	HG	SER	205	62.935	63.549	139.363	1.00	0.00	H
ATOM	3231	N	ASN	206	62.822	61.696	136.285	1.00	0.00	N
ATOM	3232	CA	ASN	206	62.191	60.475	135.761	1.00	0.00	C
ATOM	3233	C	ASN	206	60.647	60.622	135.877	1.00	0.00	C
ATOM	3234	O	ASN	206	60.145	61.711	136.144	1.00	0.00	O
ATOM	3235	CB	ASN	206	62.769	59.297	136.590	1.00	0.00	C
ATOM	3236	CG	ASN	206	62.617	57.887	136.045	1.00	0.00	C
ATOM	3237	OD1	ASN	206	62.571	56.947	136.814	1.00	0.00	O
ATOM	3238	ND2	ASN	206	62.472	57.672	134.757	1.00	0.00	N
ATOM	3239	H	ASN	206	63.363	61.596	137.132	1.00	0.00	H

ATOM	3240	HA	ASN	206	62.400	60.294	134.707	1.00	0.00	H
ATOM	3241	HB2	ASN	206	62.282	59.320	137.565	1.00	0.00	H
ATOM	3242	HB3	ASN	206	63.836	59.482	136.712	1.00	0.00	H
ATOM	3243	HD21	ASN	206	62.508	58.446	134.109	1.00	0.00	H
ATOM	3244	HD22	ASN	206	62.324	56.733	134.415	1.00	0.00	H
ATOM	3245	N	ASN	207	59.856	59.577	135.619	1.00	0.00	N
ATOM	3246	CA	ASN	207	58.397	59.671	135.766	1.00	0.00	C
ATOM	3247	C	ASN	207	57.750	58.303	136.026	1.00	0.00	C
ATOM	3248	O	ASN	207	58.392	57.282	135.771	1.00	0.00	O
ATOM	3249	CB	ASN	207	57.822	60.348	134.514	1.00	0.00	C
ATOM	3250	CG	ASN	207	57.867	59.442	133.304	1.00	0.00	C
ATOM	3251	OD1	ASN	207	56.989	58.618	133.084	1.00	0.00	O
ATOM	3252	ND2	ASN	207	58.895	59.591	132.494	1.00	0.00	N
ATOM	3253	H	ASN	207	60.269	58.706	135.317	1.00	0.00	H
ATOM	3254	HA	ASN	207	58.165	60.275	136.643	1.00	0.00	H

ATOM	3255	HB2 ASN	207	58.403	61.246	134.302	1.00	0.00	H
ATOM	3256	HB3 ASN	207	56.785	60.623	134.708	1.00	0.00	H
ATOM	3257	HD21 ASN	207	59.605	60.279	132.700	1.00	0.00	H
ATOM	3258	HD22 ASN	207	58.973	59.017	131.667	1.00	0.00	H
ATOM	3259	N PRO	208	56.463	58.257	136.438	1.00	0.00	N
ATOM	3260	CA PRO	208	55.776	57.019	136.807	1.00	0.00	C
ATOM	3261	C PRO	208	55.815	55.846	135.817	1.00	0.00	C
ATOM	3262	O PRO	208	55.701	54.709	136.271	1.00	0.00	O
ATOM	3263	CB PRO	208	54.327	57.425	137.099	1.00	0.00	C
ATOM	3264	CG PRO	208	54.486	58.831	137.667	1.00	0.00	C
ATOM	3265	CD PRO	208	55.635	59.396	136.838	1.00	0.00	C
ATOM	3266	HA PRO	208	56.317	56.602	137.656	1.00	0.00	H
ATOM	3267	HB2 PRO	208	53.729	57.434	136.188	1.00	0.00	H
ATOM	3268	HB3 PRO	208	53.869	56.755	137.827	1.00	0.00	H
ATOM	3269	HG2 PRO	208	54.742	58.801	138.726	1.00	0.00	H
ATOM	3270	HG3 PRO	208	53.577	59.416	137.530	1.00	0.00	H

ATOM	3271	HD2 PRO	208	56.221	60.095	137.435	1.00	0.00	H
ATOM	3272	HD3 PRO	208	55.247	59.907	135.957	1.00	0.00	H
ATOM	3273	N LEU	209	55.981	56.079	134.505	1.00	0.00	N
ATOM	3274	CA LEU	209	56.078	54.999	133.513	1.00	0.00	C
ATOM	3275	C LEU	209	57.512	54.449	133.360	1.00	0.00	C
ATOM	3276	O LEU	209	57.689	53.363	132.806	1.00	0.00	O
ATOM	3277	CB LEU	209	55.545	55.494	132.148	1.00	0.00	C
ATOM	3278	CG LEU	209	54.004	55.549	132.032	1.00	0.00	C
ATOM	3279	CD1 LEU	209	53.359	56.705	132.797	1.00	0.00	C
ATOM	3280	CD2 LEU	209	53.608	55.712	130.561	1.00	0.00	C
ATOM	3281	H LEU	209	56.042	57.036	134.187	1.00	0.00	H
ATOM	3282	HA LEU	209	55.465	54.174	133.875	1.00	0.00	H
ATOM	3283	HB2 LEU	209	55.934	56.498	131.977	1.00	0.00	H
ATOM	3284	HB3 LEU	209	55.919	54.823	131.375	1.00	0.00	H
ATOM	3285	HG LEU	209	53.647	54.615	132.466	1.00	0.00	H

ATOM	3286	HD11	LEU	209	53.641	56.647	133.848	1.00	0.00	H
ATOM	3287	HD12	LEU	209	53.701	57.652	132.380	1.00	0.00	H
ATOM	3288	HD13	LEU	209	52.275	56.639	132.708	1.00	0.00	H
ATOM	3289	HD21	LEU	209	53.992	56.660	130.184	1.00	0.00	H
ATOM	3290	HD22	LEU	209	54.029	54.893	129.978	1.00	0.00	H
ATOM	3291	HD23	LEU	209	52.522	55.699	130.474	1.00	0.00	H
ATOM	3292	N	GLY	210	58.543	55.196	133.778	1.00	0.00	N
ATOM	3293	CA	GLY	210	59.963	54.888	133.521	1.00	0.00	C
ATOM	3294	C	GLY	210	60.389	55.016	132.049	1.00	0.00	C
ATOM	3295	O	GLY	210	61.488	54.596	131.687	1.00	0.00	O
ATOM	3296	H	GLY	210	58.333	56.030	134.307	1.00	0.00	H
ATOM	3297	HA2	GLY	210	60.572	55.572	134.112	1.00	0.00	H
ATOM	3298	HA3	GLY	210	60.152	53.864	133.842	1.00	0.00	H
ATOM	3299	N	ILE	211	59.517	55.546	131.186	1.00	0.00	N
ATOM	3300	CA	ILE	211	59.778	55.798	129.756	1.00	0.00	C
ATOM	3301	C	ILE	211	60.309	57.233	129.579	1.00	0.00	C

ATOM	3302	O	ILE	211	59.948	58.130	130.349	1.00	0.00	O
ATOM	3303	CB	ILE	211	58.499	55.493	128.934	1.00	0.00	C
ATOM	3304	CG1	ILE	211	58.158	53.986	129.040	1.00	0.00	C
ATOM	3305	CG2	ILE	211	58.626	55.906	127.454	1.00	0.00	C
ATOM	3306	CD1	ILE	211	56.793	53.597	128.458	1.00	0.00	C
ATOM	3307	H	ILE	211	58.605	55.794	131.542	1.00	0.00	H
ATOM	3308	HA	ILE	211	60.552	55.133	129.374	1.00	0.00	H
ATOM	3309	HB	ILE	211	57.692	56.090	129.358	1.00	0.00	H
ATOM	3310	HG12	ILE	211	58.927	53.425	128.508	1.00	0.00	H
ATOM	3311	HG13	ILE	211	58.170	53.708	130.094	1.00	0.00	H
ATOM	3312	HG21	ILE	211	58.857	56.969	127.392	1.00	0.00	H
ATOM	3313	HG22	ILE	211	59.425	55.332	126.984	1.00	0.00	H
ATOM	3314	HG23	ILE	211	57.686	55.708	126.940	1.00	0.00	H
ATOM	3315	HD11	ILE	211	56.005	54.126	128.994	1.00	0.00	H
ATOM	3316	HD12	ILE	211	56.758	53.866	127.402	1.00	0.00	H

ATOM	3317	HD13	ILE	211	56.646	52.522	128.564	1.00	0.00	H
ATOM	3318	N	THR	212	61.144	57.483	128.561	1.00	0.00	N
ATOM	3319	CA	THR	212	61.658	58.838	128.282	1.00	0.00	C
ATOM	3320	C	THR	212	60.535	59.845	127.999	1.00	0.00	C
ATOM	3321	O	THR	212	59.666	59.634	127.149	1.00	0.00	O
ATOM	3322	CB	THR	212	62.724	58.859	127.174	1.00	0.00	C
ATOM	3323	OG1	THR	212	63.176	60.180	126.994	1.00	0.00	O
ATOM	3324	CG2	THR	212	62.275	58.298	125.827	1.00	0.00	C
ATOM	3325	H	THR	212	61.431	56.719	127.965	1.00	0.00	H
ATOM	3326	HA	THR	212	62.154	59.156	129.199	1.00	0.00	H
ATOM	3327	HB	THR	212	63.517	58.196	127.519	1.00	0.00	H
ATOM	3328	HG21	THR	212	61.910	57.280	125.961	1.00	0.00	H
ATOM	3329	HG22	THR	212	61.476	58.920	125.423	1.00	0.00	H
ATOM	3330	HG23	THR	212	63.118	58.294	125.136	1.00	0.00	H
ATOM	3331	HG1	THR	212	62.430	60.703	126.692	1.00	0.00	H
ATOM	3332	N	SER	213	60.576	60.970	128.724	1.00	0.00	N

ATOM	3333	CA	SER	213	59.578	62.047	128.678	1.00	0.00	C
ATOM	3334	C	SER	213	59.995	63.231	127.794	1.00	0.00	C
ATOM	3335	O	SER	213	59.375	64.283	127.858	1.00	0.00	O
ATOM	3336	CB	SER	213	59.219	62.500	130.105	1.00	0.00	C
ATOM	3337	OG	SER	213	60.380	62.861	130.840	1.00	0.00	O
ATOM	3338	H	SER	213	61.357	61.088	129.354	1.00	0.00	H
ATOM	3339	HA	SER	213	58.687	61.635	128.204	1.00	0.00	H
ATOM	3340	HB2	SER	213	58.713	61.683	130.620	1.00	0.00	H
ATOM	3341	HB3	SER	213	58.553	63.361	130.047	1.00	0.00	H
ATOM	3342	HG	SER	213	60.951	62.090	130.879	1.00	0.00	H
ATOM	3343	N	HIS	214	61.056	63.114	126.982	1.00	0.00	N
ATOM	3344	CA	HIS	214	61.499	64.208	126.092	1.00	0.00	C
ATOM	3345	C	HIS	214	60.438	64.590	125.047	1.00	0.00	C
ATOM	3346	O	HIS	214	60.385	65.737	124.616	1.00	0.00	O
ATOM	3347	CB	HIS	214	62.797	63.799	125.385	1.00	0.00	C

ATOM	3348	CG	HIS	214	62.591	62.734	124.330	1.00	0.00	C
ATOM	3349	ND1	HIS	214	62.323	61.380	124.591	1.00	0.00	N
ATOM	3350	CD2	HIS	214	62.685	62.922	122.978	1.00	0.00	C
ATOM	3351	CE1	HIS	214	62.260	60.790	123.384	1.00	0.00	C
ATOM	3352	NE2	HIS	214	62.468	61.692	122.402	1.00	0.00	N
ATOM	3353	H	HIS	214	61.572	62.246	126.978	1.00	0.00	H
ATOM	3354	HA	HIS	214	61.665	65.086	126.716	1.00	0.00	H
ATOM	3355	HB2	HIS	214	63.493	63.417	126.132	1.00	0.00	H
ATOM	3356	HB3	HIS	214	63.224	64.681	124.908	1.00	0.00	H
ATOM	3357	HD2	HIS	214	62.889	63.851	122.466	1.00	0.00	H
ATOM	3358	HE2	HIS	214	62.465	61.497	121.411	1.00	0.00	H
ATOM	3359	HE1	HIS	214	62.069	59.739	123.223	1.00	0.00	H
ATOM	3360	N	SER	215	59.579	63.634	124.684	1.00	0.00	N
ATOM	3361	CA	SER	215	58.436	63.819	123.781	1.00	0.00	C
ATOM	3362	C	SER	215	57.275	64.627	124.378	1.00	0.00	C
ATOM	3363	O	SER	215	56.406	65.070	123.629	1.00	0.00	O

ATOM	3364	CB	SER	215	57.932	62.442	123.315	1.00	0.00	C
ATOM	3365	OG	SER	215	57.416	61.660	124.389	1.00	0.00	O
ATOM	3366	H	SER	215	59.728	62.709	125.061	1.00	0.00	H
ATOM	3367	HA	SER	215	58.801	64.411	122.942	1.00	0.00	H
ATOM	3368	HB2	SER	215	58.761	61.903	122.856	1.00	0.00	H
ATOM	3369	HB3	SER	215	57.142	62.589	122.578	1.00	0.00	H
ATOM	3370	HG	SER	215	58.123	61.540	125.027	1.00	0.00	H
ATOM	3371	N	ASP	216	57.261	64.845	125.699	1.00	0.00	N
ATOM	3372	CA	ASP	216	56.192	65.542	126.422	1.00	0.00	C
ATOM	3373	C	ASP	216	56.716	66.196	127.714	1.00	0.00	C
ATOM	3374	O	ASP	216	56.534	65.703	128.838	1.00	0.00	O
ATOM	3375	CB	ASP	216	54.986	64.609	126.603	1.00	0.00	C
ATOM	3376	CG	ASP	216	53.857	65.222	127.447	1.00	0.00	C
ATOM	3377	OD1	ASP	216	53.748	66.473	127.469	1.00	0.00	O
ATOM	3378	OD2	ASP	216	53.110	64.448	128.094	1.00	0.00	O1-

ATOM	3379	H	ASP	216	58.045	64.504	126.237	1.00	0.00	H
ATOM	3380	HA	ASP	216	55.830	66.382	125.830	1.00	0.00	H
ATOM	3381	HB2	ASP	216	55.326	63.697	127.093	1.00	0.00	H
ATOM	3382	HB3	ASP	216	54.587	64.366	125.618	1.00	0.00	H
ATOM	3383	N	LYS	217	57.511	67.254	127.511	1.00	0.00	N
ATOM	3384	CA	LYS	217	57.972	68.139	128.581	1.00	0.00	C
ATOM	3385	C	LYS	217	57.085	69.376	128.688	1.00	0.00	C
ATOM	3386	O	LYS	217	56.869	70.084	127.699	1.00	0.00	O
ATOM	3387	CB	LYS	217	59.441	68.562	128.398	1.00	0.00	C
ATOM	3388	CG	LYS	217	60.466	67.421	128.415	1.00	0.00	C
ATOM	3389	CD	LYS	217	60.558	66.690	129.759	1.00	0.00	C
ATOM	3390	CE	LYS	217	61.767	65.743	129.742	1.00	0.00	C
ATOM	3391	NZ	LYS	217	62.049	65.177	131.091	1.00	0.00	N1+
ATOM	3392	H	LYS	217	57.809	67.452	126.567	1.00	0.00	H
ATOM	3393	HA	LYS	217	57.903	67.568	129.507	1.00	0.00	H
ATOM	3394	HB2	LYS	217	59.526	69.075	127.440	1.00	0.00	H

ATOM	3395	HB3 LYS	217	59.694	69.252	129.203	1.00	0.00	H
ATOM	3396	HG2 LYS	217	60.187	66.697	127.649	1.00	0.00	H
ATOM	3397	HG3 LYS	217	61.446	67.837	128.182	1.00	0.00	H
ATOM	3398	HD2 LYS	217	59.647	66.114	129.923	1.00	0.00	H
ATOM	3399	HD3 LYS	217	60.677	67.418	130.562	1.00	0.00	H
ATOM	3400	HE2 LYS	217	62.643	66.296	129.402	1.00	0.00	H
ATOM	3401	HE3 LYS	217	61.563	64.924	129.052	1.00	0.00	H
ATOM	3402	HZ1 LYS	217	62.239	65.929	131.738	1.00	0.00	H
ATOM	3403	HZ2 LYS	217	61.247	64.652	131.410	1.00	0.00	H
ATOM	3404	HZ3 LYS	217	62.852	64.566	131.039	1.00	0.00	H
ATOM	3405	N ILE	218	56.734	69.743	129.916	1.00	0.00	N
ATOM	3406	CA ILE	218	56.167	71.054	130.264	1.00	0.00	C
ATOM	3407	C ILE	218	57.227	71.879	131.011	1.00	0.00	C
ATOM	3408	O ILE	218	58.120	71.325	131.656	1.00	0.00	O
ATOM	3409	CB ILE	218	54.835	70.897	131.037	1.00	0.00	C

ATOM	3410	CG1	ILE	218	54.991	70.132	132.373	1.00	0.00	C
ATOM	3411	CG2	ILE	218	53.801	70.229	130.106	1.00	0.00	C
ATOM	3412	CD1	ILE	218	53.673	69.877	133.120	1.00	0.00	C
ATOM	3413	H	ILE	218	56.866	69.075	130.662	1.00	0.00	H
ATOM	3414	HA	ILE	218	55.908	71.605	129.360	1.00	0.00	H
ATOM	3415	HB	ILE	218	54.485	71.889	131.324	1.00	0.00	H
ATOM	3416	HG12	ILE	218	55.454	69.168	132.161	1.00	0.00	H
ATOM	3417	HG13	ILE	218	55.644	70.714	133.024	1.00	0.00	H
ATOM	3418	HG21	ILE	218	53.670	70.839	129.212	1.00	0.00	H
ATOM	3419	HG22	ILE	218	54.155	69.238	129.822	1.00	0.00	H
ATOM	3420	HG23	ILE	218	52.848	70.139	130.627	1.00	0.00	H
ATOM	3421	HD11	ILE	218	53.205	70.830	133.366	1.00	0.00	H
ATOM	3422	HD12	ILE	218	53.003	69.296	132.487	1.00	0.00	H
ATOM	3423	HD13	ILE	218	53.876	69.324	134.037	1.00	0.00	H
ATOM	3424	N	THR	219	57.142	73.212	130.933	1.00	0.00	N
ATOM	3425	CA	THR	219	57.958	74.062	131.820	1.00	0.00	C

ATOM	3426	C	THR	219	57.536	73.820	133.269	1.00	0.00	C
ATOM	3427	O	THR	219	56.382	73.466	133.532	1.00	0.00	O
ATOM	3428	CB	THR	219	57.867	75.569	131.525	1.00	0.00	C
ATOM	3429	OG1	THR	219	56.588	76.080	131.856	1.00	0.00	O
ATOM	3430	CG2	THR	219	58.168	75.925	130.073	1.00	0.00	C
ATOM	3431	H	THR	219	56.517	73.638	130.264	1.00	0.00	H
ATOM	3432	HA	THR	219	58.994	73.776	131.639	1.00	0.00	H
ATOM	3433	HB	THR	219	58.634	76.026	132.150	1.00	0.00	H
ATOM	3434	HG21	THR	219	59.152	75.543	129.802	1.00	0.00	H
ATOM	3435	HG22	THR	219	57.413	75.478	129.426	1.00	0.00	H
ATOM	3436	HG23	THR	219	58.154	77.008	129.954	1.00	0.00	H
ATOM	3437	HG1	THR	219	55.947	75.651	131.284	1.00	0.00	H
ATOM	3438	N	PHE	220	58.412	74.102	134.230	1.00	0.00	N
ATOM	3439	CA	PHE	220	58.061	73.981	135.647	1.00	0.00	C
ATOM	3440	C	PHE	220	57.002	75.058	136.018	1.00	0.00	C

ATOM	3441	O	PHE	220	56.461	74.962	137.127	1.00	0.00	O
ATOM	3442	CB	PHE	220	59.379	74.127	136.453	1.00	0.00	C
ATOM	3443	CG	PHE	220	59.334	73.713	137.921	1.00	0.00	C
ATOM	3444	CD1	PHE	220	59.018	74.645	138.923	1.00	0.00	C
ATOM	3445	CD2	PHE	220	59.559	72.373	138.296	1.00	0.00	C
ATOM	3446	CE1	PHE	220	58.917	74.254	140.268	1.00	0.00	C
ATOM	3447	CE2	PHE	220	59.329	71.959	139.619	1.00	0.00	C
ATOM	3448	CZ	PHE	220	59.031	72.901	140.609	1.00	0.00	C
ATOM	3449	H	PHE	220	59.341	74.407	133.976	1.00	0.00	H
ATOM	3450	HA	PHE	220	57.608	73.017	135.879	1.00	0.00	H
ATOM	3451	HB2	PHE	220	60.136	73.517	135.961	1.00	0.00	H
ATOM	3452	HB3	PHE	220	59.675	75.175	136.414	1.00	0.00	H
ATOM	3453	HD1	PHE	220	58.850	75.678	138.655	1.00	0.00	H
ATOM	3454	HD2	PHE	220	59.910	71.661	137.563	1.00	0.00	H
ATOM	3455	HE1	PHE	220	58.752	74.995	141.037	1.00	0.00	H
ATOM	3456	HE2	PHE	220	59.382	70.910	139.872	1.00	0.00	H

ATOM	3457	HZ	PHE	220	58.889	72.586	141.632	1.00	0.00	H
ATOM	3458	N	HIS	221	56.749	76.107	135.171	1.00	0.00	N
ATOM	3459	CA	HIS	221	57.288	77.366	135.581	1.00	0.00	C
ATOM	3460	C	HIS	221	55.659	77.484	136.107	1.00	0.00	C
ATOM	3461	O	HIS	221	55.122	78.494	135.614	1.00	0.00	O
ATOM	3462	CB	HIS	221	57.389	78.775	136.322	1.00	0.00	C
ATOM	3463	CG	HIS	221	56.574	79.906	136.983	1.00	0.00	C
ATOM	3464	ND1	HIS	221	56.008	79.844	138.255	1.00	0.00	N
ATOM	3465	CD2	HIS	221	56.298	81.133	136.428	1.00	0.00	C
ATOM	3466	CE1	HIS	221	55.349	81.005	138.415	1.00	0.00	C
ATOM	3467	NE2	HIS	221	55.493	81.794	137.335	1.00	0.00	N
ATOM	3468	H	HIS	221	56.219	75.998	134.318	1.00	0.00	H
ATOM	3469	HA	HIS	221	57.058	77.834	134.624	1.00	0.00	H
ATOM	3470	HB2	HIS	221	57.940	79.346	135.575	1.00	0.00	H
ATOM	3471	HB3	HIS	221	58.056	78.513	137.143	1.00	0.00	H

ATOM	3472	HD2	HIS	221	56.642	81.505	135.474	1.00	0.00	H
ATOM	3473	HE2	HIS	221	55.084	82.709	137.209	1.00	0.00	H
ATOM	3474	HE1	HIS	221	54.780	81.269	139.294	1.00	0.00	H
ATOM	3475	N	PRO	222	54.534	76.676	135.946	1.00	0.00	N
ATOM	3476	CA	PRO	222	53.272	76.964	136.647	1.00	0.00	C
ATOM	3477	C	PRO	222	52.789	75.706	137.353	1.00	0.00	C
ATOM	3478	O	PRO	222	52.466	75.706	138.539	1.00	0.00	O
ATOM	3479	CB	PRO	222	52.231	77.432	135.616	1.00	0.00	C
ATOM	3480	CG	PRO	222	52.853	77.200	134.237	1.00	0.00	C
ATOM	3481	CD	PRO	222	54.095	76.364	134.534	1.00	0.00	C
ATOM	3482	HA	PRO	222	53.421	77.747	137.391	1.00	0.00	H
ATOM	3483	HB2	PRO	222	51.313	76.853	135.718	1.00	0.00	H
ATOM	3484	HB3	PRO	222	52.010	78.490	135.757	1.00	0.00	H
ATOM	3485	HG2	PRO	222	53.125	78.146	133.769	1.00	0.00	H
ATOM	3486	HG3	PRO	222	52.166	76.658	133.587	1.00	0.00	H
ATOM	3487	HD2	PRO	222	54.890	76.619	133.833	1.00	0.00	H

ATOM	3488	HD3 PRO	223	53.859	75.304	134.445	1.00	0.00	H
ATOM	3489	N TYR	223	52.829	74.592	136.610	1.00	0.00	N
ATOM	3490	CA TYR	223	52.350	73.259	136.941	1.00	0.00	C
ATOM	3491	C TYR	223	53.107	72.644	138.119	1.00	0.00	C
ATOM	3492	O TYR	223	52.516	71.849	138.861	1.00	0.00	O
ATOM	3493	CB TYR	223	52.540	72.380	135.691	1.00	0.00	C
ATOM	3494	CG TYR	223	51.892	72.941	134.434	1.00	0.00	C
ATOM	3495	CD1 TYR	223	50.491	73.052	134.360	1.00	0.00	C
ATOM	3496	CD2 TYR	223	52.685	73.372	133.346	1.00	0.00	C
ATOM	3497	CE1 TYR	223	49.881	73.596	133.217	1.00	0.00	C
ATOM	3498	CE2 TYR	223	52.079	73.919	132.197	1.00	0.00	C
ATOM	3499	CZ TYR	223	50.672	74.031	132.134	1.00	0.00	C
ATOM	3500	OH TYR	223	50.074	74.565	131.032	1.00	0.00	O
ATOM	3501	H TYR	223	53.248	74.691	135.697	1.00	0.00	H
ATOM	3502	HA TYR	223	51.303	73.321	137.238	1.00	0.00	H

ATOM	3503	HB2 TYR	223	53.609	72.273	135.507	1.00	0.00	H
ATOM	3504	HB3 TYR	223	52.106	71.400	135.892	1.00	0.00	H
ATOM	3505	HD1 TYR	223	49.881	72.717	135.186	1.00	0.00	H
ATOM	3506	HD2 TYR	223	53.760	73.282	133.395	1.00	0.00	H
ATOM	3507	HE1 TYR	223	48.805	73.681	133.168	1.00	0.00	H
ATOM	3508	HE2 TYR	223	52.687	74.251	131.369	1.00	0.00	H
ATOM	3509	HH TYR	223	50.676	74.843	130.338	1.00	0.00	H
ATOM	3510	N TYR	224	54.368	73.052	138.347	1.00	0.00	N
ATOM	3511	CA TYR	224	55.193	72.482	139.410	1.00	0.00	C
ATOM	3512	C TYR	224	55.614	73.429	140.530	1.00	0.00	C
ATOM	3513	O TYR	224	55.635	72.991	141.685	1.00	0.00	O
ATOM	3514	CB TYR	224	56.272	71.556	138.854	1.00	0.00	C
ATOM	3515	CG TYR	224	55.765	70.324	138.120	1.00	0.00	C
ATOM	3516	CD1 TYR	224	54.844	69.430	138.710	1.00	0.00	C
ATOM	3517	CD2 TYR	224	56.189	70.111	136.801	1.00	0.00	C
ATOM	3518	CE1 TYR	224	54.330	68.349	137.960	1.00	0.00	C

ATOM	3519	CE2	TYR	224	55.708	69.014	136.066	1.00	0.00	C
ATOM	3520	CZ	TYR	224	54.766	68.140	136.636	1.00	0.00	C
ATOM	3521	OH	TYR	224	54.328	67.071	135.925	1.00	0.00	O
ATOM	3522	H	TYR	224	54.758	73.778	137.763	1.00	0.00	H
ATOM	3523	HA	TYR	224	54.525	71.837	139.981	1.00	0.00	H
ATOM	3524	HB2	TYR	224	56.884	72.132	138.160	1.00	0.00	H
ATOM	3525	HB3	TYR	224	56.888	71.220	139.688	1.00	0.00	H
ATOM	3526	HD1	TYR	224	54.533	69.573	139.734	1.00	0.00	H
ATOM	3527	HD2	TYR	224	56.890	70.795	136.346	1.00	0.00	H
ATOM	3528	HE1	TYR	224	53.603	67.683	138.401	1.00	0.00	H
ATOM	3529	HE2	TYR	224	56.063	68.842	135.061	1.00	0.00	H
ATOM	3530	HH	TYR	224	54.708	66.984	135.048	1.00	0.00	H
ATOM	3531	N	THR	225	55.662	74.732	140.267	1.00	0.00	N
ATOM	3532	CA	THR	225	55.676	75.748	141.337	1.00	0.00	C
ATOM	3533	C	THR	225	54.413	75.666	142.199	1.00	0.00	C

ATOM	3534	O	THR	225	54.521	75.598	143.425	1.00	0.00	O
ATOM	3535	CB	THR	225	55.843	77.183	140.806	1.00	0.00	C
ATOM	3536	OG1	THR	225	54.972	77.416	139.723	1.00	0.00	O
ATOM	3537	CG2	THR	225	57.244	77.483	140.284	1.00	0.00	C
ATOM	3538	H	THR	225	55.690	75.036	139.304	1.00	0.00	H
ATOM	3539	HA	THR	225	56.550	75.519	141.947	1.00	0.00	H
ATOM	3540	HB	THR	225	55.628	77.821	141.663	1.00	0.00	H
ATOM	3541	HG21	THR	225	57.974	77.291	141.071	1.00	0.00	H
ATOM	3542	HG22	THR	225	57.457	76.844	139.427	1.00	0.00	H
ATOM	3543	HG23	THR	225	57.303	78.528	139.981	1.00	0.00	H
ATOM	3544	HG1	THR	225	55.225	76.820	139.014	1.00	0.00	H
ATOM	3545	N	ILE	226	53.218	75.580	141.593	1.00	0.00	N
ATOM	3546	CA	ILE	226	51.961	75.523	142.361	1.00	0.00	C
ATOM	3547	C	ILE	226	51.725	74.149	143.007	1.00	0.00	C
ATOM	3548	O	ILE	226	51.165	74.077	144.103	1.00	0.00	O
ATOM	3549	CB	ILE	226	50.772	75.977	141.481	1.00	0.00	C

ATOM	3550	CG1	ILE	226	49.663	76.559	142.387	1.00	0.00	C
ATOM	3551	CG2	ILE	226	50.189	74.871	140.577	1.00	0.00	C
ATOM	3552	CD1	ILE	226	48.705	77.497	141.632	1.00	0.00	C
ATOM	3553	H	ILE	226	53.179	75.554	140.584	1.00	0.00	H
ATOM	3554	HA	ILE	226	52.047	76.222	143.193	1.00	0.00	H
ATOM	3555	HB	ILE	226	51.163	76.734	140.801	1.00	0.00	H
ATOM	3556	HG12	ILE	226	49.085	75.734	142.804	1.00	0.00	H
ATOM	3557	HG13	ILE	226	50.133	77.119	143.196	1.00	0.00	H
ATOM	3558	HG21	ILE	226	50.978	74.467	139.943	1.00	0.00	H
ATOM	3559	HG22	ILE	226	49.778	74.074	141.197	1.00	0.00	H
ATOM	3560	HG23	ILE	226	49.400	75.290	139.953	1.00	0.00	H
ATOM	3561	HD11	ILE	226	49.266	78.338	141.224	1.00	0.00	H
ATOM	3562	HD12	ILE	226	48.227	76.950	140.819	1.00	0.00	H
ATOM	3563	HD13	ILE	226	47.943	77.867	142.318	1.00	0.00	H
ATOM	3564	N	LYS	227	52.210	73.063	142.385	1.00	0.00	N

ATOM	3565	CA	LYS	227	52.115	71.697	142.929	1.00	0.00	C
ATOM	3566	C	LYS	227	53.036	71.487	144.129	1.00	0.00	C
ATOM	3567	O	LYS	227	52.533	71.083	145.174	1.00	0.00	O
ATOM	3568	CB	LYS	227	52.318	70.688	141.793	1.00	0.00	C
ATOM	3569	CG	LYS	227	52.445	69.223	142.227	1.00	0.00	C
ATOM	3570	CD	LYS	227	52.087	68.305	141.047	1.00	0.00	C
ATOM	3571	CE	LYS	227	52.657	66.883	141.166	1.00	0.00	C
ATOM	3572	NZ	LYS	227	54.140	66.841	141.069	1.00	0.00	N1+
ATOM	3573	H	LYS	227	52.666	73.189	141.493	1.00	0.00	H
ATOM	3574	HA	LYS	227	51.116	71.533	143.334	1.00	0.00	H
ATOM	3575	HB2	LYS	227	51.465	70.766	141.118	1.00	0.00	H
ATOM	3576	HB3	LYS	227	53.229	70.961	141.260	1.00	0.00	H
ATOM	3577	HG2	LYS	227	53.469	69.025	142.543	1.00	0.00	H
ATOM	3578	HG3	LYS	227	51.765	69.030	143.057	1.00	0.00	H
ATOM	3579	HD2	LYS	227	52.475	68.754	140.133	1.00	0.00	H
ATOM	3580	HD3	LYS	227	51.001	68.235	140.985	1.00	0.00	H

ATOM	3581	HE2	LYS	227	52.239	66.273	140.365	1.00	0.00	H
ATOM	3582	HE3	LYS	227	52.360	66.469	142.130	1.00	0.00	H
ATOM	3583	HZ1	LYS	227	54.430	67.222	140.180	1.00	0.00	H
ATOM	3584	HZ2	LYS	227	54.542	67.388	141.817	1.00	0.00	H
ATOM	3585	HZ3	LYS	227	54.455	65.885	141.145	1.00	0.00	H
ATOM	3586	N	ASP	228	54.296	71.933	144.051	1.00	0.00	N
ATOM	3587	CA	ASP	228	55.180	72.045	145.220	1.00	0.00	C
ATOM	3588	C	ASP	228	54.639	72.954	146.338	1.00	0.00	C
ATOM	3589	O	ASP	228	54.748	72.613	147.513	1.00	0.00	O
ATOM	3590	CB	ASP	228	56.633	72.404	144.815	1.00	0.00	C
ATOM	3591	CG	ASP	228	57.493	71.239	144.267	1.00	0.00	C
ATOM	3592	OD1	ASP	228	57.113	70.055	144.419	1.00	0.00	O
ATOM	3593	OD2	ASP	228	58.622	71.503	143.772	1.00	0.00	O1-
ATOM	3594	H	ASP	228	54.656	72.205	143.147	1.00	0.00	H
ATOM	3595	HA	ASP	228	55.201	71.048	145.661	1.00	0.00	H

ATOM	3596	HB2 ASP	228	57.136	72.804	145.696	1.00	0.00	H
ATOM	3597	HB3 ASP	228	56.584	73.173	144.044	1.00	0.00	H
ATOM	3598	N ALA	229	53.967	74.064	145.996	1.00	0.00	N
ATOM	3599	CA ALA	229	53.348	74.954	146.985	1.00	0.00	C
ATOM	3600	C ALA	229	52.148	74.308	147.707	1.00	0.00	C
ATOM	3601	O ALA	229	52.052	74.382	148.936	1.00	0.00	O
ATOM	3602	CB ALA	229	52.954	76.269	146.300	1.00	0.00	C
ATOM	3603	H ALA	229	53.884	74.297	145.017	1.00	0.00	H
ATOM	3604	HA ALA	229	54.082	75.155	147.766	1.00	0.00	H
ATOM	3605	HB1 ALA	229	53.838	76.727	145.857	1.00	0.00	H
ATOM	3606	HB2 ALA	229	52.220	76.067	145.520	1.00	0.00	H
ATOM	3607	HB3 ALA	229	52.523	76.947	147.036	1.00	0.00	H
ATOM	3608	N LEU	230	51.268	73.608	146.979	1.00	0.00	N
ATOM	3609	CA LEU	230	50.181	72.807	147.554	1.00	0.00	C
ATOM	3610	C LEU	230	50.721	71.658	148.419	1.00	0.00	C
ATOM	3611	O LEU	230	50.249	71.441	149.537	1.00	0.00	O

ATOM	3612	CB	LEU	230	49.291	72.304	146.398	1.00	0.00	C
ATOM	3613	CG	LEU	230	48.224	71.266	146.796	1.00	0.00	C
ATOM	3614	CD1	LEU	230	47.218	71.828	147.802	1.00	0.00	C
ATOM	3615	CD2	LEU	230	47.453	70.822	145.552	1.00	0.00	C
ATOM	3616	H	LEU	230	51.358	73.633	145.973	1.00	0.00	H
ATOM	3617	HA	LEU	230	49.582	73.421	148.226	1.00	0.00	H
ATOM	3618	HB2	LEU	230	48.780	73.165	145.967	1.00	0.00	H
ATOM	3619	HB3	LEU	230	49.938	71.852	145.646	1.00	0.00	H
ATOM	3620	HG	LEU	230	48.747	70.429	147.258	1.00	0.00	H
ATOM	3621	HD11	LEU	230	47.746	72.167	148.693	1.00	0.00	H
ATOM	3622	HD12	LEU	230	46.686	72.667	147.354	1.00	0.00	H
ATOM	3623	HD13	LEU	230	46.505	71.050	148.076	1.00	0.00	H
ATOM	3624	HD21	LEU	230	46.942	71.680	145.115	1.00	0.00	H
ATOM	3625	HD22	LEU	230	48.148	70.404	144.824	1.00	0.00	H
ATOM	3626	HD23	LEU	230	46.719	70.065	145.830	1.00	0.00	H

ATOM	3627	N	GLY	231	51.770	70.975	147.946	1.00	0.00	N
ATOM	3628	CA	GLY	231	52.475	69.943	148.702	1.00	0.00	C
ATOM	3629	C	GLY	231	53.091	70.498	149.986	1.00	0.00	C
ATOM	3630	O	GLY	231	52.951	69.895	151.051	1.00	0.00	O
ATOM	3631	H	GLY	231	52.093	71.185	147.012	1.00	0.00	H
ATOM	3632	HA2	GLY	231	51.770	69.153	148.962	1.00	0.00	H
ATOM	3633	HA3	GLY	231	53.269	69.531	148.080	1.00	0.00	H
ATOM	3634	N	LEU	232	53.677	71.702	149.933	1.00	0.00	N
ATOM	3635	CA	LEU	232	54.246	72.398	151.088	1.00	0.00	C
ATOM	3636	C	LEU	232	53.188	72.803	152.123	1.00	0.00	C
ATOM	3637	O	LEU	232	53.430	72.673	153.323	1.00	0.00	O
ATOM	3638	CB	LEU	232	55.061	73.606	150.587	1.00	0.00	C
ATOM	3639	CG	LEU	232	55.753	74.426	151.697	1.00	0.00	C
ATOM	3640	CD1	LEU	232	56.777	73.576	152.449	1.00	0.00	C
ATOM	3641	CD2	LEU	232	56.481	75.623	151.082	1.00	0.00	C
ATOM	3642	H	LEU	232	53.730	72.160	149.035	1.00	0.00	H

ATOM	3643	HA	LEU	232	54.906	71.710	151.616	1.00	0.00	H
ATOM	3644	HB2	LEU	232	55.830	73.238	149.908	1.00	0.00	H
ATOM	3645	HB3	LEU	232	54.386	74.269	150.046	1.00	0.00	H
ATOM	3646	HG	LEU	232	54.983	74.763	152.391	1.00	0.00	H
ATOM	3647	HD11	LEU	232	56.279	72.711	152.888	1.00	0.00	H
ATOM	3648	HD12	LEU	232	57.548	73.238	151.756	1.00	0.00	H
ATOM	3649	HD13	LEU	232	57.234	74.172	153.239	1.00	0.00	H
ATOM	3650	HD21	LEU	232	57.246	75.267	150.392	1.00	0.00	H
ATOM	3651	HD22	LEU	232	55.766	76.245	150.543	1.00	0.00	H
ATOM	3652	HD23	LEU	232	56.949	76.209	151.873	1.00	0.00	H
ATOM	3653	N	LEU	233	51.989	73.195	151.688	1.00	0.00	N
ATOM	3654	CA	LEU	233	50.856	73.442	152.576	1.00	0.00	C
ATOM	3655	C	LEU	233	50.375	72.166	153.295	1.00	0.00	C
ATOM	3656	O	LEU	233	50.131	72.195	154.503	1.00	0.00	O
ATOM	3657	CB	LEU	233	49.743	74.101	151.742	1.00	0.00	C

ATOM	3658	CG	LEU	233	48.477	74.458	152.546	1.00	0.00	C
ATOM	3659	CD1	LEU	233	48.763	75.535	153.597	1.00	0.00	C
ATOM	3660	CD2	LEU	233	47.403	74.984	151.594	1.00	0.00	C
ATOM	3661	H	LEU	233	51.858	73.328	150.695	1.00	0.00	H
ATOM	3662	HA	LEU	233	51.161	74.111	153.380	1.00	0.00	H
ATOM	3663	HB2	LEU	233	50.140	75.017	151.305	1.00	0.00	H
ATOM	3664	HB3	LEU	233	49.459	73.413	150.946	1.00	0.00	H
ATOM	3665	HG	LEU	233	48.139	73.555	153.054	1.00	0.00	H
ATOM	3666	HD11	LEU	233	49.537	75.182	154.278	1.00	0.00	H
ATOM	3667	HD12	LEU	233	49.102	76.445	153.102	1.00	0.00	H
ATOM	3668	HD13	LEU	233	47.853	75.745	154.159	1.00	0.00	H
ATOM	3669	HD21	LEU	233	47.765	75.886	151.100	1.00	0.00	H
ATOM	3670	HD22	LEU	233	47.178	74.225	150.845	1.00	0.00	H
ATOM	3671	HD23	LEU	233	46.500	75.217	152.158	1.00	0.00	H
ATOM	3672	N	LEU	234	50.326	71.029	152.588	1.00	0.00	N
ATOM	3673	CA	LEU	234	50.040	69.719	153.189	1.00	0.00	C

ATOM	3674	C	LEU	234	51.153	69.281	154.162	1.00	0.00	C
ATOM	3675	O	LEU	234	50.851	68.733	155.232	1.00	0.00	O
ATOM	3676	CB	LEU	234	49.845	68.681	152.064	1.00	0.00	C
ATOM	3677	CG	LEU	234	48.562	68.887	151.238	1.00	0.00	C
ATOM	3678	CD1	LEU	234	48.610	68.015	149.982	1.00	0.00	C
ATOM	3679	CD2	LEU	234	47.308	68.511	152.033	1.00	0.00	C
ATOM	3680	H	LEU	234	50.494	71.075	151.593	1.00	0.00	H
ATOM	3681	HA	LEU	234	49.125	69.795	153.776	1.00	0.00	H
ATOM	3682	HB2	LEU	234	50.700	68.741	151.390	1.00	0.00	H
ATOM	3683	HB3	LEU	234	49.807	67.690	152.515	1.00	0.00	H
ATOM	3684	HG	LEU	234	48.511	69.944	150.977	1.00	0.00	H
ATOM	3685	HD11	LEU	234	49.491	68.273	149.394	1.00	0.00	H
ATOM	3686	HD12	LEU	234	48.661	66.965	150.270	1.00	0.00	H
ATOM	3687	HD13	LEU	234	47.713	68.185	149.387	1.00	0.00	H
ATOM	3688	HD21	LEU	234	47.350	67.455	152.299	1.00	0.00	H

ATOM	3689	HD22	LEU	234	47.259	69.113	152.941	1.00	0.00	H
ATOM	3690	HD23	LEU	234	46.423	68.698	151.425	1.00	0.00	H
ATOM	3691	N	PHE	235	52.413	69.616	153.869	1.00	0.00	N
ATOM	3692	CA	PHE	235	53.526	69.416	154.793	1.00	0.00	C
ATOM	3693	C	PHE	235	53.420	70.198	156.110	1.00	0.00	C
ATOM	3694	O	PHE	235	53.505	69.622	157.200	1.00	0.00	O
ATOM	3695	CB	PHE	235	54.865	69.626	154.074	1.00	0.00	C
ATOM	3696	CG	PHE	235	56.038	69.624	155.023	1.00	0.00	C
ATOM	3697	CD1	PHE	235	56.329	68.409	155.653	1.00	0.00	C
ATOM	3698	CD2	PHE	235	56.761	70.782	155.370	1.00	0.00	C
ATOM	3699	CE1	PHE	235	57.304	68.357	156.640	1.00	0.00	C
ATOM	3700	CE2	PHE	235	57.784	70.714	156.341	1.00	0.00	C
ATOM	3701	CZ	PHE	235	58.055	69.495	156.999	1.00	0.00	C
ATOM	3702	H	PHE	235	52.604	70.027	152.966	1.00	0.00	H
ATOM	3703	HA	PHE	235	53.471	68.377	155.116	1.00	0.00	H
ATOM	3704	HB2	PHE	235	55.001	68.824	153.348	1.00	0.00	H

ATOM	3705	HB3 PHE	235	54.837	70.584	153.556	1.00	0.00	H
ATOM	3706	HD1 PHE	235	55.796	67.513	155.372	1.00	0.00	H
ATOM	3707	HD2 PHE	235	56.533	71.723	154.893	1.00	0.00	H
ATOM	3708	HE1 PHE	235	57.492	67.421	157.146	1.00	0.00	H
ATOM	3709	HE2 PHE	235	58.360	71.596	156.580	1.00	0.00	H
ATOM	3710	HZ PHE	235	58.820	69.435	157.759	1.00	0.00	H
ATOM	3711	N LEU	236	53.105	71.494	155.989	1.00	0.00	N
ATOM	3712	CA LEU	236	52.847	72.391	157.114	1.00	0.00	C
ATOM	3713	C LEU	236	51.662	71.917	157.968	1.00	0.00	C
ATOM	3714	O LEU	236	51.772	71.912	159.193	1.00	0.00	O
ATOM	3715	CB LEU	236	52.635	73.818	156.570	1.00	0.00	C
ATOM	3716	CG LEU	236	52.315	74.871	157.643	1.00	0.00	C
ATOM	3717	CD1 LEU	236	53.480	75.079	158.617	1.00	0.00	C
ATOM	3718	CD2 LEU	236	52.013	76.211	156.962	1.00	0.00	C
ATOM	3719	H LEU	236	53.041	71.878	155.057	1.00	0.00	H

ATOM	3720	HA	LEU	236	53.709	72.387	157.781	1.00	0.00	H
ATOM	3721	HB2	LEU	236	53.545	74.124	156.054	1.00	0.00	H
ATOM	3722	HB3	LEU	236	51.807	73.792	155.861	1.00	0.00	H
ATOM	3723	HG	LEU	236	51.456	74.509	158.208	1.00	0.00	H
ATOM	3724	HD11	LEU	236	53.723	74.133	159.101	1.00	0.00	H
ATOM	3725	HD12	LEU	236	54.350	75.441	158.070	1.00	0.00	H
ATOM	3726	HD13	LEU	236	53.195	75.811	159.373	1.00	0.00	H
ATOM	3727	HD21	LEU	236	52.891	76.543	156.408	1.00	0.00	H
ATOM	3728	HD22	LEU	236	51.175	76.089	156.276	1.00	0.00	H
ATOM	3729	HD23	LEU	236	51.759	76.954	157.718	1.00	0.00	H
ATOM	3730	N	LEU	237	50.576	71.432	157.349	1.00	0.00	N
ATOM	3731	CA	LEU	237	49.455	70.816	158.061	1.00	0.00	C
ATOM	3732	C	LEU	237	49.924	69.624	158.905	1.00	0.00	C
ATOM	3733	O	LEU	237	49.741	69.649	160.120	1.00	0.00	O
ATOM	3734	CB	LEU	237	48.344	70.436	157.060	1.00	0.00	C
ATOM	3735	CG	LEU	237	47.185	69.625	157.675	1.00	0.00	C

ATOM	3736	CD1	LEU	237	46.467	70.396	158.786	1.00	0.00	C
ATOM	3737	CD2	LEU	237	46.161	69.302	156.585	1.00	0.00	C
ATOM	3738	H	LEU	237	50.529	71.495	156.342	1.00	0.00	H
ATOM	3739	HA	LEU	237	49.034	71.537	158.761	1.00	0.00	H
ATOM	3740	HB2	LEU	237	47.933	71.355	156.641	1.00	0.00	H
ATOM	3741	HB3	LEU	237	48.791	69.842	156.263	1.00	0.00	H
ATOM	3742	HG	LEU	237	47.614	68.718	158.102	1.00	0.00	H
ATOM	3743	HD11	LEU	237	47.181	70.656	159.568	1.00	0.00	H
ATOM	3744	HD12	LEU	237	46.032	71.307	158.374	1.00	0.00	H
ATOM	3745	HD13	LEU	237	45.677	69.775	159.207	1.00	0.00	H
ATOM	3746	HD21	LEU	237	45.755	70.230	156.182	1.00	0.00	H
ATOM	3747	HD22	LEU	237	46.645	68.740	155.786	1.00	0.00	H
ATOM	3748	HD23	LEU	237	45.353	68.706	157.010	1.00	0.00	H
ATOM	3749	N	SER	238	50.622	68.653	158.307	1.00	0.00	N
ATOM	3750	CA	SER	238	51.117	67.455	159.012	1.00	0.00	C

ATOM	3751	C	SER	238	52.018	67.808	160.207	1.00	0.00	C
ATOM	3752	O	SER	238	51.872	67.231	161.291	1.00	0.00	O
ATOM	3753	CB	SER	238	51.883	66.574	158.014	1.00	0.00	C
ATOM	3754	OG	SER	238	52.263	65.336	158.587	1.00	0.00	O
ATOM	3755	H	SER	238	50.821	68.744	157.321	1.00	0.00	H
ATOM	3756	HA	SER	238	50.258	66.918	159.414	1.00	0.00	H
ATOM	3757	HB2	SER	238	52.780	67.104	157.692	1.00	0.00	H
ATOM	3758	HB3	SER	238	51.245	66.382	157.151	1.00	0.00	H
ATOM	3759	HG	SER	238	52.823	65.526	159.343	1.00	0.00	H
ATOM	3760	N	LEU	239	52.903	68.794	160.044	1.00	0.00	N
ATOM	3761	CA	LEU	239	53.773	69.296	161.109	1.00	0.00	C
ATOM	3762	C	LEU	239	52.995	70.029	162.222	1.00	0.00	C
ATOM	3763	O	LEU	239	53.300	69.863	163.409	1.00	0.00	O
ATOM	3764	CB	LEU	239	54.824	70.207	160.451	1.00	0.00	C
ATOM	3765	CG	LEU	239	55.800	70.869	161.442	1.00	0.00	C
ATOM	3766	CD1	LEU	239	56.765	69.857	162.063	1.00	0.00	C

ATOM	3767	CD2	LEU	239	56.591	71.954	160.717	1.00	0.00	C
ATOM	3768	H	LEU	239	52.977	69.219	159.131	1.00	0.00	H
ATOM	3769	HA	LEU	239	54.254	68.457	161.612	1.00	0.00	H
ATOM	3770	HB2	LEU	239	55.404	69.607	159.750	1.00	0.00	H
ATOM	3771	HB3	LEU	239	54.301	70.995	159.909	1.00	0.00	H
ATOM	3772	HG	LEU	239	55.214	71.301	162.253	1.00	0.00	H
ATOM	3773	HD11	LEU	239	56.197	69.082	162.578	1.00	0.00	H
ATOM	3774	HD12	LEU	239	57.370	69.403	161.278	1.00	0.00	H
ATOM	3775	HD13	LEU	239	57.415	70.365	162.775	1.00	0.00	H
ATOM	3776	HD21	LEU	239	57.170	71.504	159.911	1.00	0.00	H
ATOM	3777	HD22	LEU	239	55.902	72.690	160.302	1.00	0.00	H
ATOM	3778	HD23	LEU	239	57.265	72.443	161.420	1.00	0.00	H
ATOM	3779	N	MET	240	52.009	70.863	161.869	1.00	0.00	N
ATOM	3780	CA	MET	240	51.196	71.594	162.848	1.00	0.00	C
ATOM	3781	C	MET	240	50.208	70.694	163.595	1.00	0.00	C

ATOM	3782	O	MET	240	50.052	70.850	164.804	1.00	0.00	O
ATOM	3783	CB	MET	240	50.498	72.793	162.185	1.00	0.00	C
ATOM	3784	CG	MET	240	51.465	73.909	161.752	1.00	0.00	C
ATOM	3785	SD	MET	240	52.429	74.685	163.085	1.00	0.00	S
ATOM	3786	CE	MET	240	53.939	73.690	162.974	1.00	0.00	C
ATOM	3787	H	MET	240	51.816	70.995	160.886	1.00	0.00	H
ATOM	3788	HA	MET	240	51.876	71.976	163.609	1.00	0.00	H
ATOM	3789	HB2	MET	240	49.785	73.212	162.895	1.00	0.00	H
ATOM	3790	HB3	MET	240	49.966	72.437	161.303	1.00	0.00	H
ATOM	3791	HG2	MET	240	50.879	74.689	161.266	1.00	0.00	H
ATOM	3792	HG3	MET	240	52.168	73.483	161.036	1.00	0.00	H
ATOM	3793	HE1	MET	240	53.697	72.642	163.148	1.00	0.00	H
ATOM	3794	HE2	MET	240	54.376	73.802	161.982	1.00	0.00	H
ATOM	3795	HE3	MET	240	54.653	74.028	163.725	1.00	0.00	H
ATOM	3796	N	THR	241	49.671	69.651	162.959	1.00	0.00	N
ATOM	3797	CA	THR	241	48.871	68.617	163.639	1.00	0.00	C

ATOM	3798	C	THR	241	49.688	67.831	164.677	1.00	0.00	C
ATOM	3799	O	THR	241	49.177	67.542	165.758	1.00	0.00	O
ATOM	3800	CB	THR	241	48.247	67.659	162.614	1.00	0.00	C
ATOM	3801	OG1	THR	241	47.503	68.388	161.667	1.00	0.00	O
ATOM	3802	CG2	THR	241	47.274	66.662	163.244	1.00	0.00	C
ATOM	3803	H	THR	241	49.820	69.566	161.964	1.00	0.00	H
ATOM	3804	HA	THR	241	48.077	69.133	164.179	1.00	0.00	H
ATOM	3805	HB	THR	241	49.082	67.120	162.166	1.00	0.00	H
ATOM	3806	HG21	THR	241	47.790	66.088	164.014	1.00	0.00	H
ATOM	3807	HG22	THR	241	46.440	67.202	163.692	1.00	0.00	H
ATOM	3808	HG23	THR	241	46.899	65.986	162.476	1.00	0.00	H
ATOM	3809	HG1	THR	241	46.792	68.831	162.135	1.00	0.00	H
ATOM	3810	N	LEU	242	50.980	67.593	164.420	1.00	0.00	N
ATOM	3811	CA	LEU	242	51.926	67.127	165.441	1.00	0.00	C
ATOM	3812	C	LEU	242	52.140	68.205	166.526	1.00	0.00	C

ATOM	3813	O	LEU	242	51.718	68.032	167.666	1.00	0.00	O
ATOM	3814	CB	LEU	242	53.240	66.676	164.761	1.00	0.00	C
ATOM	3815	CG	LEU	242	53.359	65.121	164.569	1.00	0.00	C
ATOM	3816	CD1	LEU	242	52.204	64.444	163.803	1.00	0.00	C
ATOM	3817	CD2	LEU	242	54.635	64.839	163.766	1.00	0.00	C
ATOM	3818	H	LEU	242	51.319	67.741	163.480	1.00	0.00	H
ATOM	3819	HA	LEU	242	51.515	66.261	165.959	1.00	0.00	H
ATOM	3820	HB2	LEU	242	53.298	67.148	163.780	1.00	0.00	H
ATOM	3821	HB3	LEU	242	54.076	67.011	165.375	1.00	0.00	H
ATOM	3822	HG	LEU	242	53.351	64.709	165.578	1.00	0.00	H
ATOM	3823	HD11	LEU	242	51.260	64.661	164.303	1.00	0.00	H
ATOM	3824	HD12	LEU	242	52.172	64.826	162.783	1.00	0.00	H
ATOM	3825	HD13	LEU	242	52.364	63.366	163.782	1.00	0.00	H
ATOM	3826	HD21	LEU	242	54.549	65.289	162.777	1.00	0.00	H
ATOM	3827	HD22	LEU	242	55.493	65.266	164.285	1.00	0.00	H
ATOM	3828	HD23	LEU	242	54.770	63.762	163.665	1.00	0.00	H

ATOM	3829	N	THR	243	52.702	69.368	166.193	1.00	0.00	N
ATOM	3830	CA	THR	243	53.194	70.335	167.207	1.00	0.00	C
ATOM	3831	C	THR	243	52.140	71.119	167.985	1.00	0.00	C
ATOM	3832	O	THR	243	52.445	71.578	169.082	1.00	0.00	O
ATOM	3833	CB	THR	243	54.158	71.351	166.593	1.00	0.00	C
ATOM	3834	OG1	THR	243	53.562	72.049	165.538	1.00	0.00	O
ATOM	3835	CG2	THR	243	55.391	70.677	166.014	1.00	0.00	C
ATOM	3836	H	THR	243	52.796	69.600	165.214	1.00	0.00	H
ATOM	3837	HA	THR	243	53.683	69.677	167.925	1.00	0.00	H
ATOM	3838	HB	THR	243	54.430	72.025	167.406	1.00	0.00	H
ATOM	3839	HG21	THR	243	55.891	70.103	166.794	1.00	0.00	H
ATOM	3840	HG22	THR	243	55.094	70.010	165.205	1.00	0.00	H
ATOM	3841	HG23	THR	243	56.072	71.435	165.628	1.00	0.00	H
ATOM	3842	HG1	THR	243	53.344	71.411	164.854	1.00	0.00	H
ATOM	3843	N	LEU	244	50.921	71.284	167.460	1.00	0.00	N

ATOM	3844	CA	LEU	244	49.833	72.029	168.114	1.00	0.00	C
ATOM	3845	C	LEU	244	48.777	71.131	168.780	1.00	0.00	C
ATOM	3846	O	LEU	244	47.940	71.645	169.530	1.00	0.00	O
ATOM	3847	CB	LEU	244	49.190	73.021	167.126	1.00	0.00	C
ATOM	3848	CG	LEU	244	50.173	73.971	166.415	1.00	0.00	C
ATOM	3849	CD1	LEU	244	49.390	74.906	165.490	1.00	0.00	C
ATOM	3850	CD2	LEU	244	50.981	74.838	167.390	1.00	0.00	C
ATOM	3851	H	LEU	244	50.735	70.871	166.557	1.00	0.00	H
ATOM	3852	HA	LEU	244	50.290	72.588	168.931	1.00	0.00	H
ATOM	3853	HB2	LEU	244	48.667	72.445	166.363	1.00	0.00	H
ATOM	3854	HB3	LEU	244	48.473	73.629	167.678	1.00	0.00	H
ATOM	3855	HG	LEU	244	50.872	73.343	165.862	1.00	0.00	H
ATOM	3856	HD11	LEU	244	48.823	74.315	164.771	1.00	0.00	H
ATOM	3857	HD12	LEU	244	48.705	75.513	166.082	1.00	0.00	H
ATOM	3858	HD13	LEU	244	50.085	75.556	164.958	1.00	0.00	H
ATOM	3859	HD21	LEU	244	50.303	75.476	167.956	1.00	0.00	H

ATOM	3860	HD22	LEU	244	51.533	74.195	168.076	1.00	0.00	H
ATOM	3861	HD23	LEU	244	51.681	75.458	166.830	1.00	0.00	H
ATOM	3862	N	PHE	245	48.851	69.806	168.588	1.00	0.00	N
ATOM	3863	CA	PHE	245	47.919	68.842	169.190	1.00	0.00	C
ATOM	3864	C	PHE	245	48.532	67.626	169.886	1.00	0.00	C
ATOM	3865	O	PHE	245	47.898	67.018	170.747	1.00	0.00	O
ATOM	3866	CB	PHE	245	46.839	68.412	168.182	1.00	0.00	C
ATOM	3867	CG	PHE	245	45.863	69.487	167.755	1.00	0.00	C
ATOM	3868	CD1	PHE	245	45.020	70.098	168.699	1.00	0.00	C
ATOM	3869	CD2	PHE	245	45.777	69.856	166.397	1.00	0.00	C
ATOM	3870	CE1	PHE	245	44.095	71.074	168.290	1.00	0.00	C
ATOM	3871	CE2	PHE	245	44.848	70.829	165.986	1.00	0.00	C
ATOM	3872	CZ	PHE	245	44.007	71.439	166.936	1.00	0.00	C
ATOM	3873	H	PHE	245	49.589	69.450	167.997	1.00	0.00	H
ATOM	3874	HA	PHE	245	47.471	69.405	170.009	1.00	0.00	H

ATOM	3875	HB2 PHE	245	47.344	68.046	167.288	1.00	0.00	H
ATOM	3876	HB3 PHE	245	46.266	67.602	168.633	1.00	0.00	H
ATOM	3877	HD1 PHE	245	45.083	69.817	169.740	1.00	0.00	H
ATOM	3878	HD2 PHE	245	46.426	69.390	165.670	1.00	0.00	H
ATOM	3879	HE1 PHE	245	43.451	71.544	169.018	1.00	0.00	H
ATOM	3880	HE2 PHE	245	44.780	71.107	164.945	1.00	0.00	H
ATOM	3881	HZ PHE	245	43.294	72.188	166.624	1.00	0.00	H
ATOM	3882	N SER	246	49.757	67.242	169.516	1.00	0.00	N
ATOM	3883	CA SER	246	50.393	66.005	169.976	1.00	0.00	C
ATOM	3884	C SER	246	51.940	66.090	169.922	1.00	0.00	C
ATOM	3885	O SER	246	52.592	65.284	169.263	1.00	0.00	O
ATOM	3886	CB SER	246	49.786	64.848	169.166	1.00	0.00	C
ATOM	3887	OG SER	246	50.054	64.950	167.779	1.00	0.00	O
ATOM	3888	H SER	246	50.273	67.837	168.884	1.00	0.00	H
ATOM	3889	HA SER	246	50.189	65.828	171.032	1.00	0.00	H
ATOM	3890	HB2 SER	246	48.706	64.849	169.313	1.00	0.00	H

ATOM	3891	HB3	SER	246	50.202	63.910	169.533	1.00	0.00	H
ATOM	3892	HG	SER	246	49.682	65.780	167.472	1.00	0.00	H
ATOM	3893	N	PRO	247	52.571	67.079	170.600	1.00	0.00	N
ATOM	3894	CA	PRO	247	53.961	67.479	170.314	1.00	0.00	C
ATOM	3895	C	PRO	247	55.004	66.393	170.651	1.00	0.00	C
ATOM	3896	O	PRO	247	56.061	66.326	170.018	1.00	0.00	O
ATOM	3897	CB	PRO	247	54.202	68.759	171.133	1.00	0.00	C
ATOM	3898	CG	PRO	247	52.811	69.214	171.579	1.00	0.00	C
ATOM	3899	CD	PRO	247	52.029	67.912	171.664	1.00	0.00	C
ATOM	3900	HA	PRO	247	54.086	67.641	169.243	1.00	0.00	H
ATOM	3901	HB2	PRO	247	54.831	68.547	171.998	1.00	0.00	H
ATOM	3902	HB3	PRO	247	54.676	69.524	170.517	1.00	0.00	H
ATOM	3903	HG2	PRO	247	52.367	69.889	170.847	1.00	0.00	H
ATOM	3904	HG3	PRO	247	52.854	69.708	172.550	1.00	0.00	H
ATOM	3905	HD2	PRO	247	50.966	68.092	171.506	1.00	0.00	H

ATOM	3906	HD3 PRO	247	52.177	67.439	172.635	1.00	0.00	H
ATOM	3907	N ASP	248	54.631	65.505	171.582	1.00	0.00	N
ATOM	3908	CA ASP	248	55.440	64.394	172.097	1.00	0.00	C
ATOM	3909	C ASP	248	55.003	63.021	171.541	1.00	0.00	C
ATOM	3910	O ASP	248	55.550	62.008	171.966	1.00	0.00	O
ATOM	3911	CB ASP	248	55.327	64.416	173.632	1.00	0.00	C
ATOM	3912	CG ASP	248	55.652	65.801	174.208	1.00	0.00	C
ATOM	3913	OD1 ASP	248	54.684	66.597	174.339	1.00	0.00	O
ATOM	3914	OD2 ASP	248	56.851	66.061	174.470	1.00	0.00	O1-
ATOM	3915	H ASP	248	53.703	65.610	171.967	1.00	0.00	H
ATOM	3916	HA ASP	248	56.472	64.528	171.772	1.00	0.00	H
ATOM	3917	HB2 ASP	248	56.024	63.689	174.048	1.00	0.00	H
ATOM	3918	HB3 ASP	248	54.309	64.146	173.915	1.00	0.00	H
ATOM	3919	N LEU	249	54.044	62.941	170.601	1.00	0.00	N
ATOM	3920	CA LEU	249	53.469	61.663	170.111	1.00	0.00	C
ATOM	3921	C LEU	249	54.522	60.658	169.606	1.00	0.00	C

ATOM	3922	O	LEU	249	54.327	59.442	169.682	1.00	0.00	O
ATOM	3923	CB	LEU	249	52.496	61.990	168.961	1.00	0.00	C
ATOM	3924	CG	LEU	249	51.599	60.821	168.503	1.00	0.00	C
ATOM	3925	CD1	LEU	249	50.399	60.645	169.440	1.00	0.00	C
ATOM	3926	CD2	LEU	249	51.073	61.085	167.087	1.00	0.00	C
ATOM	3927	H	LEU	249	53.694	63.802	170.205	1.00	0.00	H
ATOM	3928	HA	LEU	249	52.970	61.186	170.955	1.00	0.00	H
ATOM	3929	HB2	LEU	249	51.848	62.803	169.289	1.00	0.00	H
ATOM	3930	HB3	LEU	249	53.085	62.318	168.105	1.00	0.00	H
ATOM	3931	HG	LEU	249	52.205	59.915	168.520	1.00	0.00	H
ATOM	3932	HD11	LEU	249	50.754	60.462	170.454	1.00	0.00	H
ATOM	3933	HD12	LEU	249	49.791	61.550	169.426	1.00	0.00	H
ATOM	3934	HD13	LEU	249	49.799	59.798	169.107	1.00	0.00	H
ATOM	3935	HD21	LEU	249	50.470	61.993	167.087	1.00	0.00	H
ATOM	3936	HD22	LEU	249	51.914	61.207	166.404	1.00	0.00	H

ATOM	3937	HD23	LEU	249	50.461	60.243	166.764	1.00	0.00	H
ATOM	3938	N	LEU	250	55.608	61.201	169.046	1.00	0.00	N
ATOM	3939	CA	LEU	250	56.729	60.457	168.479	1.00	0.00	C
ATOM	3940	C	LEU	250	57.975	60.447	169.384	1.00	0.00	C
ATOM	3941	O	LEU	250	58.938	59.761	169.051	1.00	0.00	O
ATOM	3942	CB	LEU	250	57.035	61.042	167.090	1.00	0.00	C
ATOM	3943	CG	LEU	250	55.850	61.037	166.103	1.00	0.00	C
ATOM	3944	CD1	LEU	250	56.311	61.578	164.750	1.00	0.00	C
ATOM	3945	CD2	LEU	250	55.283	59.634	165.862	1.00	0.00	C
ATOM	3946	H	LEU	250	55.657	62.209	169.012	1.00	0.00	H
ATOM	3947	HA	LEU	250	56.444	59.409	168.393	1.00	0.00	H
ATOM	3948	HB2	LEU	250	57.360	62.074	167.222	1.00	0.00	H
ATOM	3949	HB3	LEU	250	57.844	60.460	166.649	1.00	0.00	H
ATOM	3950	HG	LEU	250	55.073	61.657	166.550	1.00	0.00	H
ATOM	3951	HD11	LEU	250	56.711	62.584	164.878	1.00	0.00	H
ATOM	3952	HD12	LEU	250	57.086	60.928	164.343	1.00	0.00	H

ATOM	3953	HD13	LEU	250	55.465	61.608	164.063	1.00	0.00	H
ATOM	3954	HD21	LEU	250	56.051	59.003	165.415	1.00	0.00	H
ATOM	3955	HD22	LEU	250	54.966	59.202	166.811	1.00	0.00	H
ATOM	3956	HD23	LEU	250	54.428	59.698	165.189	1.00	0.00	H
ATOM	3957	N	GLY	251	57.961	61.219	170.478	1.00	0.00	N
ATOM	3958	CA	GLY	251	59.100	61.424	171.378	1.00	0.00	C
ATOM	3959	C	GLY	251	58.978	60.593	172.665	1.00	0.00	C
ATOM	3960	O	GLY	251	57.955	59.959	172.921	1.00	0.00	O
ATOM	3961	H	GLY	251	57.099	61.697	170.700	1.00	0.00	H
ATOM	3962	HA2	GLY	251	60.014	61.136	170.859	1.00	0.00	H
ATOM	3963	HA3	GLY	251	59.151	62.480	171.645	1.00	0.00	H
ATOM	3964	N	ASP	252	60.050	60.570	173.462	1.00	0.00	N
ATOM	3965	CA	ASP	252	60.176	59.599	174.554	1.00	0.00	C
ATOM	3966	C	ASP	252	59.948	60.279	175.936	1.00	0.00	C
ATOM	3967	O	ASP	252	60.772	61.112	176.346	1.00	0.00	O

ATOM	3968	CB	ASP	252	61.584	58.976	174.467	1.00	0.00	C
ATOM	3969	CG	ASP	252	61.575	57.612	175.175	1.00	0.00	C
ATOM	3970	OD1	ASP	252	62.483	56.804	174.814	1.00	0.00	O
ATOM	3971	OD2	ASP	252	60.597	57.300	175.893	1.00	0.00	O1-
ATOM	3972	H	ASP	252	60.792	61.238	173.309	1.00	0.00	H
ATOM	3973	HA	ASP	252	59.416	58.823	174.457	1.00	0.00	H
ATOM	3974	HB2	ASP	252	62.305	59.634	174.952	1.00	0.00	H
ATOM	3975	HB3	ASP	252	61.860	58.843	173.421	1.00	0.00	H
ATOM	3976	N	PRO	253	58.925	59.878	176.733	1.00	0.00	N
ATOM	3977	CA	PRO	253	58.651	60.370	178.104	1.00	0.00	C
ATOM	3978	C	PRO	253	59.654	59.906	179.186	1.00	0.00	C
ATOM	3979	O	PRO	253	59.280	59.405	180.255	1.00	0.00	O
ATOM	3980	CB	PRO	253	57.191	59.979	178.401	1.00	0.00	C
ATOM	3981	CG	PRO	253	56.593	59.755	177.011	1.00	0.00	C
ATOM	3982	CD	PRO	253	57.766	59.121	176.284	1.00	0.00	C
ATOM	3983	HA	PRO	253	58.791	61.450	178.144	1.00	0.00	H

ATOM	3984	HB2 PRO	253	57.145	59.067	178.997	1.00	0.00	H
ATOM	3985	HB3 PRO	253	56.671	60.782	178.924	1.00	0.00	H
ATOM	3986	HG2 PRO	253	56.297	60.696	176.547	1.00	0.00	H
ATOM	3987	HG3 PRO	253	55.736	59.083	177.049	1.00	0.00	H
ATOM	3988	HD2 PRO	253	57.643	59.209	175.204	1.00	0.00	H
ATOM	3989	HD3 PRO	253	57.864	58.070	176.554	1.00	0.00	H
ATOM	3990	N ASP	254	60.944	60.067	178.897	1.00	0.00	N
ATOM	3991	CA ASP	254	62.107	59.696	179.725	1.00	0.00	C
ATOM	3992	C ASP	254	63.265	60.655	179.367	1.00	0.00	C
ATOM	3993	O ASP	254	63.962	61.154	180.250	1.00	0.00	O
ATOM	3994	CB ASP	254	62.507	58.228	179.445	1.00	0.00	C
ATOM	3995	CG ASP	254	63.534	57.640	180.438	1.00	0.00	C
ATOM	3996	OD1 ASP	254	64.002	56.503	180.190	1.00	0.00	O
ATOM	3997	OD2 ASP	254	63.866	58.327	181.447	1.00	0.00	O1-
ATOM	3998	H ASP	254	61.150	60.494	178.005	1.00	0.00	H

ATOM	3999	HA	ASP	254	61.868	59.780	180.785	1.00	0.00	H
ATOM	4000	HB2	ASP	254	62.935	58.177	178.444	1.00	0.00	H
ATOM	4001	HB3	ASP	254	61.606	57.616	179.486	1.00	0.00	H
ATOM	4002	N	ASN	255	63.285	61.173	178.126	1.00	0.00	N
ATOM	4003	CA	ASN	255	64.020	62.398	177.792	1.00	0.00	C
ATOM	4004	C	ASN	255	63.478	63.663	178.496	1.00	0.00	C
ATOM	4005	O	ASN	255	64.091	64.723	178.396	1.00	0.00	O
ATOM	4006	CB	ASN	255	64.073	62.589	176.258	1.00	0.00	C
ATOM	4007	CG	ASN	255	65.458	63.061	175.853	1.00	0.00	C
ATOM	4008	OD1	ASN	255	66.446	62.524	176.336	1.00	0.00	O
ATOM	4009	ND2	ASN	255	65.601	64.030	174.972	1.00	0.00	N
ATOM	4010	H	ASN	255	62.774	60.700	177.395	1.00	0.00	H
ATOM	4011	HA	ASN	255	65.032	62.266	178.174	1.00	0.00	H
ATOM	4012	HB2	ASN	255	63.334	63.332	175.959	1.00	0.00	H
ATOM	4013	HB3	ASN	255	63.854	61.641	175.766	1.00	0.00	H
ATOM	4014	HD21	ASN	255	64.786	64.474	174.573	1.00	0.00	H

ATOM	4015	HD22	ASN	255	66.525	64.329	174.696	1.00	0.00	H
ATOM	4016	N	TYR	256	62.387	63.520	179.259	1.00	0.00	N
ATOM	4017	CA	TYR	256	61.887	64.469	180.262	1.00	0.00	C
ATOM	4018	C	TYR	256	62.502	64.399	181.664	1.00	0.00	C
ATOM	4019	O	TYR	256	62.179	65.222	182.519	1.00	0.00	O
ATOM	4020	CB	TYR	256	60.357	64.572	180.224	1.00	0.00	C
ATOM	4021	CG	TYR	256	59.855	65.456	179.103	1.00	0.00	C
ATOM	4022	CD1	TYR	256	59.685	64.939	177.802	1.00	0.00	C
ATOM	4023	CD2	TYR	256	59.615	66.821	179.359	1.00	0.00	C
ATOM	4024	CE1	TYR	256	59.309	65.800	176.749	1.00	0.00	C
ATOM	4025	CE2	TYR	256	59.227	67.679	178.311	1.00	0.00	C
ATOM	4026	CZ	TYR	256	59.085	67.171	177.001	1.00	0.00	C
ATOM	4027	OH	TYR	256	58.811	68.012	175.969	1.00	0.00	O
ATOM	4028	H	TYR	256	61.853	62.672	179.132	1.00	0.00	H
ATOM	4029	HA	TYR	256	62.282	65.433	179.942	1.00	0.00	H

ATOM	4030	HB2 TYR	256	59.944	63.572	180.090	1.00	0.00	H
ATOM	4031	HB3 TYR	256	60.012	64.983	181.173	1.00	0.00	H
ATOM	4032	HD1 TYR	256	59.842	63.887	177.612	1.00	0.00	H
ATOM	4033	HD2 TYR	256	59.729	67.210	180.360	1.00	0.00	H
ATOM	4034	HE1 TYR	256	59.192	65.410	175.749	1.00	0.00	H
ATOM	4035	HE2 TYR	256	59.038	68.724	178.509	1.00	0.00	H
ATOM	4036	HH TYR	256	58.729	68.937	176.211	1.00	0.00	H
ATOM	4037	N THR	257	63.462	63.489	181.872	1.00	0.00	N
ATOM	4038	CA THR	257	64.280	63.405	183.086	1.00	0.00	C
ATOM	4039	C THR	257	65.743	63.667	182.727	1.00	0.00	C
ATOM	4040	O THR	257	66.207	63.236	181.668	1.00	0.00	O
ATOM	4041	CB THR	257	64.060	62.096	183.870	1.00	0.00	C
ATOM	4042	OG1 THR	257	64.789	61.028	183.326	1.00	0.00	O
ATOM	4043	CG2 THR	257	62.597	61.647	183.956	1.00	0.00	C
ATOM	4044	H THR	257	63.635	62.813	181.142	1.00	0.00	H
ATOM	4045	HA THR	257	63.959	64.182	183.780	1.00	0.00	H

ATOM	4046	HB	THR	257	64.409	62.341	184.873	1.00	0.00	H
ATOM	4047	HG21	THR	257	61.993	62.454	184.372	1.00	0.00	H
ATOM	4048	HG22	THR	257	62.234	61.398	182.959	1.00	0.00	H
ATOM	4049	HG23	THR	257	62.523	60.770	184.599	1.00	0.00	H
ATOM	4050	HG1	THR	257	64.441	60.857	182.448	1.00	0.00	H
ATOM	4051	N	LEU	258	66.435	64.474	183.541	1.00	0.00	N
ATOM	4052	CA	LEU	258	67.825	64.878	183.297	1.00	0.00	C
ATOM	4053	C	LEU	258	68.748	63.645	183.213	1.00	0.00	C
ATOM	4054	O	LEU	258	68.581	62.704	183.991	1.00	0.00	O
ATOM	4055	CB	LEU	258	68.254	65.863	184.408	1.00	0.00	C
ATOM	4056	CG	LEU	258	69.704	66.383	184.319	1.00	0.00	C
ATOM	4057	CD1	LEU	258	69.897	67.316	183.124	1.00	0.00	C
ATOM	4058	CD2	LEU	258	70.045	67.180	185.580	1.00	0.00	C
ATOM	4059	H	LEU	258	65.975	64.824	184.369	1.00	0.00	H
ATOM	4060	HA	LEU	258	67.907	65.384	182.335	1.00	0.00	H

ATOM	4061	HB2	LEU	258	67.587	66.724	184.368	1.00	0.00	H
ATOM	4062	HB3	LEU	258	68.138	65.357	185.367	1.00	0.00	H
ATOM	4063	HG	LEU	258	70.351	65.513	184.210	1.00	0.00	H
ATOM	4064	HD11	LEU	258	69.642	66.787	182.205	1.00	0.00	H
ATOM	4065	HD12	LEU	258	69.250	68.186	183.234	1.00	0.00	H
ATOM	4066	HD13	LEU	258	70.937	67.640	183.080	1.00	0.00	H
ATOM	4067	HD21	LEU	258	69.380	68.040	185.657	1.00	0.00	H
ATOM	4068	HD22	LEU	258	69.920	66.544	186.457	1.00	0.00	H
ATOM	4069	HD23	LEU	258	71.078	67.523	185.525	1.00	0.00	H
ATOM	4070	N	ALA	259	69.717	63.654	182.292	1.00	0.00	N
ATOM	4071	CA	ALA	259	70.659	62.549	182.101	1.00	0.00	C
ATOM	4072	C	ALA	259	71.348	62.129	183.405	1.00	0.00	C
ATOM	4073	O	ALA	259	71.918	62.955	184.124	1.00	0.00	O
ATOM	4074	CB	ALA	259	71.730	62.967	181.089	1.00	0.00	C
ATOM	4075	H	ALA	259	69.804	64.465	181.697	1.00	0.00	H
ATOM	4076	HA	ALA	259	70.086	61.695	181.738	1.00	0.00	H

ATOM	4077	HB1 ALA	259	71.253	63.242	180.148	1.00	0.00	H
ATOM	4078	HB2 ALA	259	72.285	63.821	181.479	1.00	0.00	H
ATOM	4079	HB3 ALA	259	72.414	62.136	180.920	1.00	0.00	H
ATOM	4080	N ASN	260	71.383	60.818	183.653	1.00	0.00	N
ATOM	4081	CA ASN	260	71.909	60.244	184.879	1.00	0.00	C
ATOM	4082	C ASN	260	72.811	59.041	184.545	1.00	0.00	C
ATOM	4083	O ASN	260	72.300	57.934	184.337	1.00	0.00	O
ATOM	4084	CB ASN	260	70.701	59.883	185.755	1.00	0.00	C
ATOM	4085	CG ASN	260	71.104	59.404	187.141	1.00	0.00	C
ATOM	4086	OD1 ASN	260	72.119	58.749	187.348	1.00	0.00	O
ATOM	4087	ND2 ASN	260	70.267	59.669	188.116	1.00	0.00	N
ATOM	4088	H ASN	260	71.024	60.190	182.949	1.00	0.00	H
ATOM	4089	HA ASN	260	72.541	60.941	185.429	1.00	0.00	H
ATOM	4090	HB2 ASN	260	70.137	59.091	185.262	1.00	0.00	H
ATOM	4091	HB3 ASN	260	70.071	60.766	185.861	1.00	0.00	H

ATOM	4092	HD21	ASN	260	70.456	59.332	189.049	1.00	0.00	H
ATOM	4093	HD22	ASN	260	69.434	60.210	187.933	1.00	0.00	H
ATOM	4094	N	PRO	261	74.149	59.219	184.542	1.00	0.00	N
ATOM	4095	CA	PRO	261	75.105	58.160	184.215	1.00	0.00	C
ATOM	4096	C	PRO	261	75.066	56.919	185.126	1.00	0.00	C
ATOM	4097	O	PRO	261	75.701	55.919	184.795	1.00	0.00	O
ATOM	4098	CB	PRO	261	76.487	58.827	184.267	1.00	0.00	C
ATOM	4099	CG	PRO	261	76.190	60.294	183.963	1.00	0.00	C
ATOM	4100	CD	PRO	261	74.840	60.499	184.649	1.00	0.00	C
ATOM	4101	HA	PRO	261	74.849	57.754	183.236	1.00	0.00	H
ATOM	4102	HB2	PRO	261	76.935	58.717	185.255	1.00	0.00	H
ATOM	4103	HB3	PRO	261	77.153	58.401	183.517	1.00	0.00	H
ATOM	4104	HG2	PRO	261	76.118	60.468	182.889	1.00	0.00	H
ATOM	4105	HG3	PRO	261	76.952	60.948	184.387	1.00	0.00	H
ATOM	4106	HD2	PRO	261	74.272	61.282	184.146	1.00	0.00	H
ATOM	4107	HD3	PRO	261	74.982	60.769	185.696	1.00	0.00	H

ATOM	4108	N	LEU	262	74.361	56.972	186.268	1.00	0.00	N
ATOM	4109	CA	LEU	262	74.194	55.842	187.192	1.00	0.00	C
ATOM	4110	C	LEU	262	72.869	55.093	186.971	1.00	0.00	C
ATOM	4111	O	LEU	262	72.791	53.897	187.229	1.00	0.00	O
ATOM	4112	CB	LEU	262	74.276	56.343	188.644	1.00	0.00	C
ATOM	4113	CG	LEU	262	75.444	57.293	188.971	1.00	0.00	C
ATOM	4114	CD1	LEU	262	75.353	57.711	190.442	1.00	0.00	C
ATOM	4115	CD2	LEU	262	76.808	56.647	188.736	1.00	0.00	C
ATOM	4116	H	LEU	262	73.916	57.847	186.507	1.00	0.00	H
ATOM	4117	HA	LEU	262	75.000	55.136	186.993	1.00	0.00	H
ATOM	4118	HB2	LEU	262	73.347	56.868	188.867	1.00	0.00	H
ATOM	4119	HB3	LEU	262	74.365	55.471	189.292	1.00	0.00	H
ATOM	4120	HG	LEU	262	75.359	58.152	188.305	1.00	0.00	H
ATOM	4121	HD11	LEU	262	74.393	58.195	190.624	1.00	0.00	H
ATOM	4122	HD12	LEU	262	75.441	56.829	191.076	1.00	0.00	H

ATOM	4123	HD13	LEU	262	76.160	58.407	190.673	1.00	0.00	H
ATOM	4124	HD21	LEU	262	76.918	55.783	189.391	1.00	0.00	H
ATOM	4125	HD22	LEU	262	76.884	56.327	187.697	1.00	0.00	H
ATOM	4126	HD23	LEU	262	77.595	57.370	188.952	1.00	0.00	H
ATOM	4127	N	ASN	263	71.815	55.799	186.549	1.00	0.00	N
ATOM	4128	CA	ASN	263	70.481	55.237	186.360	1.00	0.00	C
ATOM	4129	C	ASN	263	70.275	54.811	184.904	1.00	0.00	C
ATOM	4130	O	ASN	263	69.972	55.648	184.056	1.00	0.00	O
ATOM	4131	CB	ASN	263	69.450	56.292	186.810	1.00	0.00	C
ATOM	4132	CG	ASN	263	68.017	55.781	186.724	1.00	0.00	C
ATOM	4133	OD1	ASN	263	67.749	54.600	186.608	1.00	0.00	O
ATOM	4134	ND2	ASN	263	67.041	56.653	186.820	1.00	0.00	N
ATOM	4135	H	ASN	263	71.950	56.780	186.349	1.00	0.00	H
ATOM	4136	HA	ASN	263	70.355	54.338	186.963	1.00	0.00	H
ATOM	4137	HB2	ASN	263	69.547	57.170	186.172	1.00	0.00	H
ATOM	4138	HB3	ASN	263	69.661	56.569	187.843	1.00	0.00	H

ATOM	4139	HD21 ASN	263	67.250	57.636	186.917	1.00	0.00	H
ATOM	4140	HD22 ASN	263	66.081	56.341	186.797	1.00	0.00	H
ATOM	4141	N THR	264	70.395	53.517	184.606	1.00	0.00	N
ATOM	4142	CA THR	264	70.199	52.959	183.264	1.00	0.00	C
ATOM	4143	C THR	264	68.723	52.572	183.042	1.00	0.00	C
ATOM	4144	O THR	264	68.242	51.678	183.742	1.00	0.00	O
ATOM	4145	CB THR	264	71.110	51.740	183.076	1.00	0.00	C
ATOM	4146	OG1 THR	264	72.431	51.951	183.626	1.00	0.00	O
ATOM	4147	CG2 THR	264	71.312	51.381	181.573	1.00	0.00	C
ATOM	4148	H THR	264	70.636	52.880	185.352	1.00	0.00	H
ATOM	4149	HA THR	264	70.460	53.717	182.525	1.00	0.00	H
ATOM	4150	HB THR	264	70.600	50.932	183.601	1.00	0.00	H
ATOM	4151	HG21 THR	264	70.341	51.216	181.105	1.00	0.00	H
ATOM	4152	HG22 THR	264	71.823	52.201	181.069	1.00	0.00	H
ATOM	4153	HG23 THR	264	71.913	50.475	181.493	1.00	0.00	H

ATOM	4154	HG1 THR	264	72.839	52.668	183.135	1.00	0.00	H
ATOM	4155	N PRO	265	67.970	53.193	182.109	1.00	0.00	N
ATOM	4156	CA PRO	265	66.562	52.857	181.903	1.00	0.00	C
ATOM	4157	C PRO	265	66.338	51.403	181.434	1.00	0.00	C
ATOM	4158	O PRO	265	67.108	50.923	180.602	1.00	0.00	O
ATOM	4159	CB PRO	265	66.039	53.839	180.842	1.00	0.00	C
ATOM	4160	CG PRO	265	66.993	55.028	180.939	1.00	0.00	C
ATOM	4161	CD PRO	265	68.322	54.373	181.327	1.00	0.00	C
ATOM	4162	HA PRO	265	66.031	52.938	182.851	1.00	0.00	H
ATOM	4163	HB2 PRO	265	66.076	53.392	179.848	1.00	0.00	H
ATOM	4164	HB3 PRO	265	65.016	54.143	181.066	1.00	0.00	H
ATOM	4165	HG2 PRO	265	66.665	55.732	181.704	1.00	0.00	H
ATOM	4166	HG3 PRO	265	67.075	55.544	179.982	1.00	0.00	H
ATOM	4167	HD2 PRO	265	68.923	55.059	181.924	1.00	0.00	H
ATOM	4168	HD3 PRO	265	68.878	54.085	180.435	1.00	0.00	H
ATOM	4169	N PRO	266	65.195	50.762	181.768	1.00	0.00	N

ATOM	4170	CA	PRO	266	64.756	49.496	181.143	1.00	0.00	C
ATOM	4171	C	PRO	266	64.379	49.602	179.648	1.00	0.00	C
ATOM	4172	O	PRO	266	64.090	48.583	179.006	1.00	0.00	O
ATOM	4173	CB	PRO	266	63.536	49.038	181.963	1.00	0.00	C
ATOM	4174	CG	PRO	266	63.649	49.797	183.284	1.00	0.00	C
ATOM	4175	CD	PRO	266	64.310	51.110	182.871	1.00	0.00	C
ATOM	4176	HA	PRO	266	65.587	48.791	181.157	1.00	0.00	H
ATOM	4177	HB2	PRO	266	62.609	49.295	181.450	1.00	0.00	H
ATOM	4178	HB3	PRO	266	63.570	47.962	182.134	1.00	0.00	H
ATOM	4179	HG2	PRO	266	64.269	49.253	183.996	1.00	0.00	H
ATOM	4180	HG3	PRO	266	62.666	49.974	183.720	1.00	0.00	H
ATOM	4181	HD2	PRO	266	64.880	51.529	183.701	1.00	0.00	H
ATOM	4182	HD3	PRO	266	63.559	51.830	182.546	1.00	0.00	H
ATOM	4183	N	HIS	267	64.241	50.853	179.181	1.00	0.00	N
ATOM	4184	CA	HIS	267	63.740	51.280	177.874	1.00	0.00	C

ATOM	4185	C	HIS	267	64.818	51.112	176.778	1.00	0.00	C
ATOM	4186	O	HIS	267	64.931	50.048	176.174	1.00	0.00	O
ATOM	4187	CB	HIS	267	63.253	52.736	178.082	1.00	0.00	C
ATOM	4188	CG	HIS	267	62.154	53.257	177.164	1.00	0.00	C
ATOM	4189	ND1	HIS	267	62.381	53.552	175.807	1.00	0.00	N
ATOM	4190	CD2	HIS	267	61.029	53.937	177.609	1.00	0.00	C
ATOM	4191	CE1	HIS	267	61.409	54.463	175.495	1.00	0.00	C
ATOM	4192	NE2	HIS	267	60.579	54.716	176.501	1.00	0.00	N
ATOM	4193	H	HIS	267	64.518	51.592	179.811	1.00	0.00	H
ATOM	4194	HA	HIS	267	62.915	50.666	177.512	1.00	0.00	H
ATOM	4195	HB2	HIS	267	64.117	53.389	177.957	1.00	0.00	H
ATOM	4196	HB3	HIS	267	62.885	52.812	179.105	1.00	0.00	H
ATOM	4197	HD2	HIS	267	60.585	53.887	178.592	1.00	0.00	H
ATOM	4198	HE2	HIS	267	59.784	55.339	176.485	1.00	0.00	H
ATOM	4199	HE1	HIS	267	61.325	54.931	174.525	1.00	0.00	H
ATOM	4200	N	ILE	268	65.639	52.153	176.564	1.00	0.00	N

ATOM	4201	CA	ILE	268	66.827	52.210	175.694	1.00	0.00	C
ATOM	4202	C	ILE	268	66.526	51.810	174.241	1.00	0.00	C
ATOM	4203	O	ILE	268	66.861	50.723	173.757	1.00	0.00	O
ATOM	4204	CB	ILE	268	68.077	51.552	176.337	1.00	0.00	C
ATOM	4205	CG1	ILE	268	68.393	52.301	177.660	1.00	0.00	C
ATOM	4206	CG2	ILE	268	69.309	51.660	175.417	1.00	0.00	C
ATOM	4207	CD1	ILE	268	69.685	51.898	178.380	1.00	0.00	C
ATOM	4208	H	ILE	268	65.414	53.003	177.061	1.00	0.00	H
ATOM	4209	HA	ILE	268	67.112	53.259	175.608	1.00	0.00	H
ATOM	4210	HB	ILE	268	67.864	50.497	176.509	1.00	0.00	H
ATOM	4211	HG12	ILE	268	68.459	53.365	177.431	1.00	0.00	H
ATOM	4212	HG13	ILE	268	67.563	52.128	178.345	1.00	0.00	H
ATOM	4213	HG21	ILE	268	69.099	51.164	174.469	1.00	0.00	H
ATOM	4214	HG22	ILE	268	69.536	52.711	175.235	1.00	0.00	H
ATOM	4215	HG23	ILE	268	70.163	51.182	175.896	1.00	0.00	H

ATOM	4216	HD11	ILE	268	69.634	50.844	178.655	1.00	0.00	H
ATOM	4217	HD12	ILE	268	70.536	52.060	177.718	1.00	0.00	H
ATOM	4218	HD13	ILE	268	69.804	52.503	179.279	1.00	0.00	H
ATOM	4219	N	LYS	269	65.967	52.763	173.490	1.00	0.00	N
ATOM	4220	CA	LYS	269	65.738	52.666	172.047	1.00	0.00	C
ATOM	4221	C	LYS	269	66.019	54.009	171.331	1.00	0.00	C
ATOM	4222	O	LYS	269	66.084	55.047	171.987	1.00	0.00	O
ATOM	4223	CB	LYS	269	64.302	52.150	171.822	1.00	0.00	C
ATOM	4224	CG	LYS	269	63.230	53.204	172.139	1.00	0.00	C
ATOM	4225	CD	LYS	269	61.844	52.655	171.817	1.00	0.00	C
ATOM	4226	CE	LYS	269	60.822	53.791	171.920	1.00	0.00	C
ATOM	4227	NZ	LYS	269	59.442	53.274	171.757	1.00	0.00	N1+
ATOM	4228	H	LYS	269	65.681	53.614	173.952	1.00	0.00	H
ATOM	4229	HA	LYS	269	66.438	51.959	171.602	1.00	0.00	H
ATOM	4230	HB2	LYS	269	64.199	51.853	170.778	1.00	0.00	H
ATOM	4231	HB3	LYS	269	64.139	51.284	172.464	1.00	0.00	H

ATOM	4232	HG2	LYS	269	63.279	53.461	173.197	1.00	0.00	H
ATOM	4233	HG3	LYS	269	63.413	54.096	171.539	1.00	0.00	H
ATOM	4234	HD2	LYS	269	61.589	51.868	172.527	1.00	0.00	H
ATOM	4235	HD3	LYS	269	61.838	52.248	170.806	1.00	0.00	H
ATOM	4236	HE2	LYS	269	61.023	54.525	171.139	1.00	0.00	H
ATOM	4237	HE3	LYS	269	60.913	54.266	172.897	1.00	0.00	H
ATOM	4238	HZ1	LYS	269	59.352	52.833	170.853	1.00	0.00	H
ATOM	4239	HZ2	LYS	269	59.248	52.598	172.482	1.00	0.00	H
ATOM	4240	HZ3	LYS	269	58.786	54.039	171.825	1.00	0.00	H
ATOM	4241	N	PRO	270	66.112	54.009	169.992	1.00	0.00	N
ATOM	4242	CA	PRO	270	66.219	55.230	169.197	1.00	0.00	C
ATOM	4243	C	PRO	270	64.988	56.138	169.209	1.00	0.00	C
ATOM	4244	O	PRO	270	63.866	55.669	169.414	1.00	0.00	O
ATOM	4245	CB	PRO	270	66.446	54.777	167.753	1.00	0.00	C
ATOM	4246	CG	PRO	270	66.714	53.277	167.802	1.00	0.00	C

ATOM	4247	CD	PRO	270	66.321	52.816	169.193	1.00	0.00	C
ATOM	4248	HA	PRO	270	67.024	55.824	169.629	1.00	0.00	H
ATOM	4249	HB2	PRO	270	65.560	54.981	167.152	1.00	0.00	H
ATOM	4250	HB3	PRO	270	67.303	55.298	167.326	1.00	0.00	H
ATOM	4251	HG2	PRO	270	67.770	53.077	167.623	1.00	0.00	H
ATOM	4252	HG3	PRO	270	66.115	52.762	167.051	1.00	0.00	H
ATOM	4253	HD2	PRO	270	67.117	52.210	169.626	1.00	0.00	H
ATOM	4254	HD3	PRO	270	65.403	52.230	169.148	1.00	0.00	H
ATOM	4255	N	GLU	271	65.198	57.348	168.672	1.00	0.00	N
ATOM	4256	CA	GLU	271	64.162	58.074	167.915	1.00	0.00	C
ATOM	4257	C	GLU	271	63.684	57.281	166.687	1.00	0.00	C
ATOM	4258	O	GLU	271	64.481	56.666	165.972	1.00	0.00	O
ATOM	4259	CB	GLU	271	64.685	59.464	167.500	1.00	0.00	C
ATOM	4260	CG	GLU	271	64.538	60.472	168.658	1.00	0.00	C
ATOM	4261	CD	GLU	271	63.063	60.697	169.049	1.00	0.00	C
ATOM	4262	OE1	GLU	271	62.806	60.960	170.258	1.00	0.00	O

ATOM	4263	OE2	GLU	271	62.195	60.563	168.128	1.00	0.00	O1-
ATOM	4264	H	GLU	271	66.103	57.780	168.791	1.00	0.00	H
ATOM	4265	HA	GLU	271	63.299	58.200	168.569	1.00	0.00	H
ATOM	4266	HB2	GLU	271	65.737	59.383	167.228	1.00	0.00	H
ATOM	4267	HB3	GLU	271	64.114	59.819	166.642	1.00	0.00	H
ATOM	4268	HG2	GLU	271	64.969	61.425	168.351	1.00	0.00	H
ATOM	4269	HG3	GLU	271	65.077	60.092	169.525	1.00	0.00	H
ATOM	4270	N	TRP	272	62.366	57.271	166.456	1.00	0.00	N
ATOM	4271	CA	TRP	272	61.674	56.179	165.739	1.00	0.00	C
ATOM	4272	C	TRP	272	62.212	55.881	164.326	1.00	0.00	C
ATOM	4273	O	TRP	272	62.199	54.728	163.885	1.00	0.00	O
ATOM	4274	CB	TRP	272	60.166	56.465	165.674	1.00	0.00	C
ATOM	4275	CG	TRP	272	59.776	57.671	164.875	1.00	0.00	C
ATOM	4276	CD1	TRP	272	59.746	58.939	165.352	1.00	0.00	C
ATOM	4277	CD2	TRP	272	59.690	57.803	163.420	1.00	0.00	C

ATOM	4278	NE1 TRP	272	59.506	59.818	164.319	1.00	0.00	N
ATOM	4279	CE2 TRP	272	59.537	59.181	163.093	1.00	0.00	C
ATOM	4280	CE3 TRP	272	59.768	56.893	162.340	1.00	0.00	C
ATOM	4281	CZ2 TRP	272	59.489	59.633	161.768	1.00	0.00	C
ATOM	4282	CZ3 TRP	272	59.752	57.342	161.003	1.00	0.00	C
ATOM	4283	CH2 TRP	272	59.621	58.711	160.715	1.00	0.00	C
ATOM	4284	H TRP	272	61.816	58.050	166.789	1.00	0.00	H
ATOM	4285	HA TRP	272	61.876	55.280	166.322	1.00	0.00	H
ATOM	4286	HB2 TRP	272	59.677	55.596	165.233	1.00	0.00	H
ATOM	4287	HB3 TRP	272	59.806	56.606	166.693	1.00	0.00	H
ATOM	4288	HD1 TRP	272	59.889	59.218	166.386	1.00	0.00	H
ATOM	4289	HE1 TRP	272	59.329	60.805	164.442	1.00	0.00	H
ATOM	4290	HE3 TRP	272	59.841	55.835	162.543	1.00	0.00	H
ATOM	4291	HZ2 TRP	272	59.351	60.683	161.557	1.00	0.00	H
ATOM	4292	HZ3 TRP	272	59.841	56.630	160.196	1.00	0.00	H
ATOM	4293	HH2 TRP	272	59.622	59.053	159.691	1.00	0.00	H

ATOM	4294	N	TYR	273	62.750	56.897	163.646	1.00	0.00	N
ATOM	4295	CA	TYR	273	63.376	56.781	162.327	1.00	0.00	C
ATOM	4296	C	TYR	273	64.567	55.822	162.196	1.00	0.00	C
ATOM	4297	O	TYR	273	64.839	55.293	161.113	1.00	0.00	O
ATOM	4298	CB	TYR	273	63.608	58.164	161.697	1.00	0.00	C
ATOM	4299	CG	TYR	273	64.072	59.265	162.642	1.00	0.00	C
ATOM	4300	CD1	TYR	273	63.129	60.158	163.188	1.00	0.00	C
ATOM	4301	CD2	TYR	273	65.440	59.432	162.931	1.00	0.00	C
ATOM	4302	CE1	TYR	273	63.550	61.234	163.997	1.00	0.00	C
ATOM	4303	CE2	TYR	273	65.866	60.512	163.734	1.00	0.00	C
ATOM	4304	CZ	TYR	273	64.921	61.423	164.257	1.00	0.00	C
ATOM	4305	OH	TYR	273	65.318	62.477	165.018	1.00	0.00	O
ATOM	4306	H	TYR	273	62.723	57.812	164.073	1.00	0.00	H
ATOM	4307	HA	TYR	273	62.634	56.256	161.725	1.00	0.00	H
ATOM	4308	HB2	TYR	273	64.364	58.053	160.920	1.00	0.00	H

ATOM	4309	HB3 TYR	273	62.669	58.486	161.247	1.00	0.00	H
ATOM	4310	HD1 TYR	273	62.077	60.018	162.986	1.00	0.00	H
ATOM	4311	HD2 TYR	273	66.164	58.733	162.538	1.00	0.00	H
ATOM	4312	HE1 TYR	273	62.822	61.912	164.417	1.00	0.00	H
ATOM	4313	HE2 TYR	273	66.916	60.642	163.949	1.00	0.00	H
ATOM	4314	HH TYR	273	66.265	62.541	165.160	1.00	0.00	H
ATOM	4315	N PHE	274	65.196	55.490	163.323	1.00	0.00	N
ATOM	4316	CA PHE	274	66.303	54.540	163.400	1.00	0.00	C
ATOM	4317	C PHE	274	65.952	53.082	163.745	1.00	0.00	C
ATOM	4318	O PHE	274	66.829	52.212	163.753	1.00	0.00	O
ATOM	4319	CB PHE	274	67.331	55.103	164.373	1.00	0.00	C
ATOM	4320	CG PHE	274	68.107	56.327	163.928	1.00	0.00	C
ATOM	4321	CD1 PHE	274	69.033	56.254	162.870	1.00	0.00	C
ATOM	4322	CD2 PHE	274	67.956	57.529	164.646	1.00	0.00	C
ATOM	4323	CE1 PHE	274	69.822	57.372	162.549	1.00	0.00	C
ATOM	4324	CE2 PHE	274	68.750	58.646	164.328	1.00	0.00	C

ATOM	4325	CZ	PHE	274	69.676	58.569	163.276	1.00	0.00	C
ATOM	4326	H	PHE	274	64.887	55.924	164.181	1.00	0.00	H
ATOM	4327	HA	PHE	274	66.692	54.449	162.386	1.00	0.00	H
ATOM	4328	HB2	PHE	274	66.805	55.364	165.291	1.00	0.00	H
ATOM	4329	HB3	PHE	274	68.054	54.314	164.580	1.00	0.00	H
ATOM	4330	HD1	PHE	274	69.137	55.339	162.305	1.00	0.00	H
ATOM	4331	HD2	PHE	274	67.229	57.593	165.442	1.00	0.00	H
ATOM	4332	HE1	PHE	274	70.540	57.313	161.745	1.00	0.00	H
ATOM	4333	HE2	PHE	274	68.647	59.561	164.892	1.00	0.00	H
ATOM	4334	HZ	PHE	274	70.278	59.430	163.024	1.00	0.00	H
ATOM	4335	N	LEU	275	64.692	52.817	164.114	1.00	0.00	N
ATOM	4336	CA	LEU	275	64.303	51.567	164.777	1.00	0.00	C
ATOM	4337	C	LEU	275	64.554	50.321	163.918	1.00	0.00	C
ATOM	4338	O	LEU	275	65.043	49.330	164.455	1.00	0.00	O
ATOM	4339	CB	LEU	275	62.831	51.629	165.227	1.00	0.00	C

ATOM	4340	CG	LEU	275	62.534	52.630	166.356	1.00	0.00	C
ATOM	4341	CD1	LEU	275	61.018	52.792	166.527	1.00	0.00	C
ATOM	4342	CD2	LEU	275	63.084	52.197	167.716	1.00	0.00	C
ATOM	4343	H	LEU	275	63.979	53.507	163.928	1.00	0.00	H
ATOM	4344	HA	LEU	275	64.944	51.470	165.653	1.00	0.00	H
ATOM	4345	HB2	LEU	275	62.226	51.905	164.364	1.00	0.00	H
ATOM	4346	HB3	LEU	275	62.541	50.636	165.571	1.00	0.00	H
ATOM	4347	HG	LEU	275	63.022	53.558	166.058	1.00	0.00	H
ATOM	4348	HD11	LEU	275	60.578	53.114	165.583	1.00	0.00	H
ATOM	4349	HD12	LEU	275	60.582	51.838	166.825	1.00	0.00	H
ATOM	4350	HD13	LEU	275	60.817	53.539	167.295	1.00	0.00	H
ATOM	4351	HD21	LEU	275	62.602	51.269	168.024	1.00	0.00	H
ATOM	4352	HD22	LEU	275	64.160	52.040	167.640	1.00	0.00	H
ATOM	4353	HD23	LEU	275	62.882	52.974	168.454	1.00	0.00	H
ATOM	4354	N	PHE	276	64.355	50.389	162.597	1.00	0.00	N
ATOM	4355	CA	PHE	276	64.549	49.225	161.718	1.00	0.00	C

ATOM	4356	C	PHE	276	66.038	48.816	161.706	1.00	0.00	C
ATOM	4357	O	PHE	276	66.354	47.625	161.695	1.00	0.00	O
ATOM	4358	CB	PHE	276	64.090	49.576	160.290	1.00	0.00	C
ATOM	4359	CG	PHE	276	65.003	50.521	159.518	1.00	0.00	C
ATOM	4360	CD1	PHE	276	64.935	51.912	159.722	1.00	0.00	C
ATOM	4361	CD2	PHE	276	65.960	49.995	158.623	1.00	0.00	C
ATOM	4362	CE1	PHE	276	65.833	52.767	159.055	1.00	0.00	C
ATOM	4363	CE2	PHE	276	66.850	50.849	157.954	1.00	0.00	C
ATOM	4364	CZ	PHE	276	66.789	52.236	158.174	1.00	0.00	C
ATOM	4365	H	PHE	276	64.063	51.266	162.190	1.00	0.00	H
ATOM	4366	HA	PHE	276	63.957	48.390	162.092	1.00	0.00	H
ATOM	4367	HB2	PHE	276	64.014	48.647	159.725	1.00	0.00	H
ATOM	4368	HB3	PHE	276	63.107	50.041	160.359	1.00	0.00	H
ATOM	4369	HD1	PHE	276	64.193	52.324	160.391	1.00	0.00	H
ATOM	4370	HD2	PHE	276	66.007	48.930	158.452	1.00	0.00	H

ATOM	4371	HE1 PHE	276	65.787	53.833	159.221	1.00	0.00	H
ATOM	4372	HE2 PHE	276	67.581	50.441	157.271	1.00	0.00	H
ATOM	4373	HZ PHE	276	67.478	52.894	157.665	1.00	0.00	H
ATOM	4374	N ALA	277	66.954	49.788	161.781	1.00	0.00	N
ATOM	4375	CA ALA	277	68.390	49.556	161.819	1.00	0.00	C
ATOM	4376	C ALA	277	68.847	49.066	163.209	1.00	0.00	C
ATOM	4377	O ALA	277	69.685	48.175	163.300	1.00	0.00	O
ATOM	4378	CB ALA	277	69.067	50.862	161.375	1.00	0.00	C
ATOM	4379	H ALA	277	66.628	50.743	161.813	1.00	0.00	H
ATOM	4380	HA ALA	277	68.680	48.754	161.140	1.00	0.00	H
ATOM	4381	HB1 ALA	277	68.751	51.108	160.361	1.00	0.00	H
ATOM	4382	HB2 ALA	277	68.780	51.668	162.051	1.00	0.00	H
ATOM	4383	HB3 ALA	277	70.149	50.736	161.398	1.00	0.00	H
ATOM	4384	N TYR	278	68.189	49.534	164.281	1.00	0.00	N
ATOM	4385	CA TYR	278	68.365	49.010	165.640	1.00	0.00	C
ATOM	4386	C TYR	278	67.938	47.545	165.825	1.00	0.00	C

ATOM	4387	O	TYR	278	68.630	46.768	166.486	1.00	0.00	O
ATOM	4388	CB	TYR	278	67.693	49.957	166.643	1.00	0.00	C
ATOM	4389	CG	TYR	278	67.662	49.498	168.092	1.00	0.00	C
ATOM	4390	CD1	TYR	278	68.869	49.125	168.716	1.00	0.00	C
ATOM	4391	CD2	TYR	278	66.478	49.576	168.852	1.00	0.00	C
ATOM	4392	CE1	TYR	278	68.910	48.871	170.095	1.00	0.00	C
ATOM	4393	CE2	TYR	278	66.516	49.351	170.245	1.00	0.00	C
ATOM	4394	CZ	TYR	278	67.737	49.006	170.865	1.00	0.00	C
ATOM	4395	OH	TYR	278	67.795	48.765	172.198	1.00	0.00	O
ATOM	4396	H	TYR	278	67.535	50.291	164.144	1.00	0.00	H
ATOM	4397	HA	TYR	278	69.437	48.983	165.835	1.00	0.00	H
ATOM	4398	HB2	TYR	278	68.224	50.908	166.608	1.00	0.00	H
ATOM	4399	HB3	TYR	278	66.662	50.105	166.320	1.00	0.00	H
ATOM	4400	HD1	TYR	278	69.770	49.034	168.128	1.00	0.00	H
ATOM	4401	HD2	TYR	278	65.541	49.808	168.368	1.00	0.00	H

ATOM	4402	HE1 TYR	278	69.836	48.573	170.565	1.00	0.00	H
ATOM	4403	HE2 TYR	278	65.615	49.442	170.834	1.00	0.00	H
ATOM	4404	HH TYR	278	66.959	48.848	172.662	1.00	0.00	H
ATOM	4405	N THR	279	66.867	47.143	165.142	1.00	0.00	N
ATOM	4406	CA THR	279	66.433	45.747	165.033	1.00	0.00	C
ATOM	4407	C THR	279	67.469	44.904	164.307	1.00	0.00	C
ATOM	4408	O THR	279	68.022	44.010	164.936	1.00	0.00	O
ATOM	4409	CB THR	279	65.077	45.658	164.336	1.00	0.00	C
ATOM	4410	OG1 THR	279	64.194	46.486	165.045	1.00	0.00	O
ATOM	4411	CG2 THR	279	64.461	44.268	164.319	1.00	0.00	C
ATOM	4412	H THR	279	66.318	47.846	164.668	1.00	0.00	H
ATOM	4413	HA THR	279	66.328	45.349	166.042	1.00	0.00	H
ATOM	4414	HB THR	279	65.237	45.948	163.298	1.00	0.00	H
ATOM	4415	HG21 THR	279	65.142	43.575	163.826	1.00	0.00	H
ATOM	4416	HG22 THR	279	64.283	43.937	165.342	1.00	0.00	H
ATOM	4417	HG23 THR	279	63.516	44.296	163.777	1.00	0.00	H

ATOM	4418	HG1 THR	279	64.127	46.142	165.939	1.00	0.00	H
ATOM	4419	N ILE	280	67.866	45.283	163.079	1.00	0.00	N
ATOM	4420	CA ILE	280	68.884	44.550	162.296	1.00	0.00	C
ATOM	4421	C ILE	280	70.197	44.355	163.072	1.00	0.00	C
ATOM	4422	O ILE	280	70.762	43.262	163.056	1.00	0.00	O
ATOM	4423	CB ILE	280	69.114	45.232	160.920	1.00	0.00	C
ATOM	4424	CG1 ILE	280	67.880	45.033	160.006	1.00	0.00	C
ATOM	4425	CG2 ILE	280	70.371	44.682	160.212	1.00	0.00	C
ATOM	4426	CD1 ILE	280	67.880	45.895	158.728	1.00	0.00	C
ATOM	4427	H ILE	280	67.449	46.108	162.672	1.00	0.00	H
ATOM	4428	HA ILE	280	68.495	43.548	162.112	1.00	0.00	H
ATOM	4429	HB ILE	280	69.265	46.295	161.107	1.00	0.00	H
ATOM	4430	HG12 ILE	280	67.843	43.985	159.709	1.00	0.00	H
ATOM	4431	HG13 ILE	280	66.988	45.279	160.582	1.00	0.00	H
ATOM	4432	HG21 ILE	280	71.242	44.829	160.851	1.00	0.00	H

ATOM	4433	HG22	ILE	280	70.241	43.618	160.015	1.00	0.00	H
ATOM	4434	HG23	ILE	280	70.518	45.210	159.270	1.00	0.00	H
ATOM	4435	HD11	ILE	280	67.889	46.950	159.001	1.00	0.00	H
ATOM	4436	HD12	ILE	280	68.765	45.666	158.135	1.00	0.00	H
ATOM	4437	HD13	ILE	280	66.985	45.679	158.144	1.00	0.00	H
ATOM	4438	N	LEU	281	70.628	45.377	163.815	1.00	0.00	N
ATOM	4439	CA	LEU	281	71.783	45.318	164.714	1.00	0.00	C
ATOM	4440	C	LEU	281	71.643	44.212	165.775	1.00	0.00	C
ATOM	4441	O	LEU	281	72.490	43.317	165.842	1.00	0.00	O
ATOM	4442	CB	LEU	281	71.958	46.719	165.326	1.00	0.00	C
ATOM	4443	CG	LEU	281	72.810	46.822	166.601	1.00	0.00	C
ATOM	4444	CD1	LEU	281	74.260	46.400	166.364	1.00	0.00	C
ATOM	4445	CD2	LEU	281	72.778	48.265	167.100	1.00	0.00	C
ATOM	4446	H	LEU	281	70.124	46.250	163.753	1.00	0.00	H
ATOM	4447	HA	LEU	281	72.681	45.046	164.159	1.00	0.00	H
ATOM	4448	HB2	LEU	281	72.420	47.353	164.569	1.00	0.00	H

ATOM	4449	HB3 LEU	281	70.965	47.101	165.562	1.00	0.00	H
ATOM	4450	HG LEU	281	72.389	46.143	167.343	1.00	0.00	H
ATOM	4451	HD11 LEU	281	74.285	45.373	165.999	1.00	0.00	H
ATOM	4452	HD12 LEU	281	74.714	47.060	165.625	1.00	0.00	H
ATOM	4453	HD13 LEU	281	74.815	46.466	167.300	1.00	0.00	H
ATOM	4454	HD21 LEU	281	73.204	48.921	166.341	1.00	0.00	H
ATOM	4455	HD22 LEU	281	71.747	48.558	167.297	1.00	0.00	H
ATOM	4456	HD23 LEU	281	73.361	48.345	168.018	1.00	0.00	H
ATOM	4457	N ARG	282	70.599	44.268	166.616	1.00	0.00	N
ATOM	4458	CA ARG	282	70.441	43.340	167.754	1.00	0.00	C
ATOM	4459	C ARG	282	69.800	41.996	167.381	1.00	0.00	C
ATOM	4460	O ARG	282	69.693	41.121	168.235	1.00	0.00	O
ATOM	4461	CB ARG	282	69.758	44.056	168.929	1.00	0.00	C
ATOM	4462	CG ARG	282	68.267	44.340	168.693	1.00	0.00	C
ATOM	4463	CD ARG	282	67.902	45.502	169.637	1.00	0.00	C

ATOM	4464	NE	ARG	282	66.470	45.736	169.432	1.00	0.00	N
ATOM	4465	CZ	ARG	282	65.616	46.125	170.361	1.00	0.00	C
ATOM	4466	NH1	ARG	282	65.954	46.462	171.576	1.00	0.00	N
ATOM	4467	NH2	ARG	282	64.355	46.187	170.080	1.00	0.00	N1+
ATOM	4468	H	ARG	282	69.892	44.974	166.465	1.00	0.00	H
ATOM	4469	HA	ARG	282	71.439	43.051	168.083	1.00	0.00	H
ATOM	4470	HB2	ARG	282	69.853	43.430	169.816	1.00	0.00	H
ATOM	4471	HB3	ARG	282	70.267	45.005	169.097	1.00	0.00	H
ATOM	4472	HG2	ARG	282	67.671	43.458	168.930	1.00	0.00	H
ATOM	4473	HG3	ARG	282	68.096	44.627	167.655	1.00	0.00	H
ATOM	4474	HD2	ARG	282	68.474	46.394	169.382	1.00	0.00	H
ATOM	4475	HD3	ARG	282	68.099	45.227	170.673	1.00	0.00	H
ATOM	4476	HE	ARG	282	66.106	45.587	168.502	1.00	0.00	H
ATOM	4477	HH11	ARG	282	66.924	46.434	171.856	1.00	0.00	H
ATOM	4478	HH12	ARG	282	65.246	46.750	172.236	1.00	0.00	H
ATOM	4479	HH21	ARG	282	64.031	45.939	169.156	1.00	0.00	H

ATOM	4480	HH22	ARG	282	63.695	46.483	170.784	1.00	0.00	H
ATOM	4481	N	SER	283	69.425	41.804	166.115	1.00	0.00	N
ATOM	4482	CA	SER	283	69.114	40.492	165.542	1.00	0.00	C
ATOM	4483	C	SER	283	70.346	39.587	165.419	1.00	0.00	C
ATOM	4484	O	SER	283	70.189	38.364	165.393	1.00	0.00	O
ATOM	4485	CB	SER	283	68.510	40.671	164.146	1.00	0.00	C
ATOM	4486	OG	SER	283	67.289	41.381	164.241	1.00	0.00	O
ATOM	4487	H	SER	283	69.351	42.613	165.515	1.00	0.00	H
ATOM	4488	HA	SER	283	68.410	40.013	166.223	1.00	0.00	H
ATOM	4489	HB2	SER	283	68.326	39.692	163.703	1.00	0.00	H
ATOM	4490	HB3	SER	283	69.206	41.229	163.519	1.00	0.00	H
ATOM	4491	HG	SER	283	66.698	40.868	164.797	1.00	0.00	H
ATOM	4492	N	VAL	284	71.562	40.152	165.346	1.00	0.00	N
ATOM	4493	CA	VAL	284	72.818	39.388	165.264	1.00	0.00	C
ATOM	4494	C	VAL	284	73.398	39.074	166.655	1.00	0.00	C

ATOM	4495	O	VAL	284	73.753	40.013	167.368	1.00	0.00	O
ATOM	4496	CB	VAL	284	73.849	40.089	164.369	1.00	0.00	C
ATOM	4497	CG1	VAL	284	75.022	39.137	164.077	1.00	0.00	C
ATOM	4498	CG2	VAL	284	73.275	40.543	163.025	1.00	0.00	C
ATOM	4499	H	VAL	284	71.618	41.160	165.347	1.00	0.00	H
ATOM	4500	HA	VAL	284	72.576	38.433	164.798	1.00	0.00	H
ATOM	4501	HB	VAL	284	74.172	40.973	164.919	1.00	0.00	H
ATOM	4502	HG11	VAL	284	75.468	38.811	165.017	1.00	0.00	H
ATOM	4503	HG12	VAL	284	74.657	38.269	163.527	1.00	0.00	H
ATOM	4504	HG13	VAL	284	75.772	39.656	163.480	1.00	0.00	H
ATOM	4505	HG21	VAL	284	72.946	39.672	162.458	1.00	0.00	H
ATOM	4506	HG22	VAL	284	72.427	41.206	163.197	1.00	0.00	H
ATOM	4507	HG23	VAL	284	74.043	41.074	162.462	1.00	0.00	H
ATOM	4508	N	PRO	285	73.662	37.799	167.009	1.00	0.00	N
ATOM	4509	CA	PRO	285	74.344	37.413	168.259	1.00	0.00	C
ATOM	4510	C	PRO	285	75.860	37.732	168.298	1.00	0.00	C

ATOM	4511	O	PRO	285	76.657	36.915	168.750	1.00	0.00	O
ATOM	4512	CB	PRO	285	74.036	35.916	168.456	1.00	0.00	C
ATOM	4513	CG	PRO	285	72.803	35.671	167.588	1.00	0.00	C
ATOM	4514	CD	PRO	285	73.053	36.614	166.421	1.00	0.00	C
ATOM	4515	HA	PRO	285	73.967	38.014	169.087	1.00	0.00	H
ATOM	4516	HB2	PRO	285	74.872	35.302	168.122	1.00	0.00	H
ATOM	4517	HB3	PRO	285	73.821	35.700	169.503	1.00	0.00	H
ATOM	4518	HG2	PRO	285	71.886	35.930	168.118	1.00	0.00	H
ATOM	4519	HG3	PRO	285	72.751	34.634	167.256	1.00	0.00	H
ATOM	4520	HD2	PRO	285	72.115	36.871	165.930	1.00	0.00	H
ATOM	4521	HD3	PRO	285	73.728	36.156	165.698	1.00	0.00	H
ATOM	4522	N	ASN	286	76.299	38.873	167.756	1.00	0.00	N
ATOM	4523	CA	ASN	286	77.720	39.206	167.612	1.00	0.00	C
ATOM	4524	C	ASN	286	77.957	40.727	167.603	1.00	0.00	C
ATOM	4525	O	ASN	286	77.331	41.459	166.830	1.00	0.00	O

ATOM	4526	CB	ASN	286	78.250	38.548	166.326	1.00	0.00	C
ATOM	4527	CG	ASN	286	79.765	38.575	166.271	1.00	0.00	C
ATOM	4528	OD1	ASN	286	80.374	39.610	166.039	1.00	0.00	O
ATOM	4529	ND2	ASN	286	80.415	37.451	166.465	1.00	0.00	N
ATOM	4530	H	ASN	286	75.616	39.541	167.428	1.00	0.00	H
ATOM	4531	HA	ASN	286	78.265	38.820	168.473	1.00	0.00	H
ATOM	4532	HB2	ASN	286	77.855	39.086	165.464	1.00	0.00	H
ATOM	4533	HB3	ASN	286	77.913	37.512	166.294	1.00	0.00	H
ATOM	4534	HD21	ASN	286	81.424	37.437	166.423	1.00	0.00	H
ATOM	4535	HD22	ASN	286	79.906	36.600	166.656	1.00	0.00	H
ATOM	4536	N	LYS	287	78.960	41.173	168.377	1.00	0.00	N
ATOM	4537	CA	LYS	287	79.367	42.582	168.518	1.00	0.00	C
ATOM	4538	C	LYS	287	79.811	43.215	167.192	1.00	0.00	C
ATOM	4539	O	LYS	287	79.417	44.342	166.889	1.00	0.00	O
ATOM	4540	CB	LYS	287	80.489	42.642	169.577	1.00	0.00	C
ATOM	4541	CG	LYS	287	80.925	44.069	169.954	1.00	0.00	C

ATOM	4542	CD	LYS	287	82.231	44.071	170.769	1.00	0.00	C
ATOM	4543	CE	LYS	287	82.744	45.489	171.081	1.00	0.00	C
ATOM	4544	NZ	LYS	287	81.840	46.267	171.967	1.00	0.00	N1+
ATOM	4545	H	LYS	287	79.478	40.486	168.906	1.00	0.00	H
ATOM	4546	HA	LYS	287	78.506	43.170	168.837	1.00	0.00	H
ATOM	4547	HB2	LYS	287	80.135	42.143	170.479	1.00	0.00	H
ATOM	4548	HB3	LYS	287	81.357	42.111	169.186	1.00	0.00	H
ATOM	4549	HG2	LYS	287	81.078	44.644	169.041	1.00	0.00	H
ATOM	4550	HG3	LYS	287	80.138	44.533	170.548	1.00	0.00	H
ATOM	4551	HD2	LYS	287	82.996	43.542	170.200	1.00	0.00	H
ATOM	4552	HD3	LYS	287	82.054	43.551	171.710	1.00	0.00	H
ATOM	4553	HE2	LYS	287	82.855	46.030	170.141	1.00	0.00	H
ATOM	4554	HE3	LYS	287	83.715	45.405	171.568	1.00	0.00	H
ATOM	4555	HZ1	LYS	287	80.934	46.355	171.530	1.00	0.00	H
ATOM	4556	HZ2	LYS	287	81.742	45.789	172.851	1.00	0.00	H

ATOM	4557	HZ3	LYS	287	82.229	47.186	172.122	1.00	0.00	H
ATOM	4558	N	LEU	288	80.629	42.495	166.411	1.00	0.00	N
ATOM	4559	CA	LEU	288	81.109	42.937	165.096	1.00	0.00	C
ATOM	4560	C	LEU	288	80.040	42.717	164.019	1.00	0.00	C
ATOM	4561	O	LEU	288	79.722	43.637	163.272	1.00	0.00	O
ATOM	4562	CB	LEU	288	82.430	42.211	164.765	1.00	0.00	C
ATOM	4563	CG	LEU	288	82.982	42.501	163.352	1.00	0.00	C
ATOM	4564	CD1	LEU	288	83.362	43.973	163.170	1.00	0.00	C
ATOM	4565	CD2	LEU	288	84.233	41.655	163.100	1.00	0.00	C
ATOM	4566	H	LEU	288	80.934	41.593	166.748	1.00	0.00	H
ATOM	4567	HA	LEU	288	81.306	44.009	165.121	1.00	0.00	H
ATOM	4568	HB2	LEU	288	83.180	42.519	165.494	1.00	0.00	H
ATOM	4569	HB3	LEU	288	82.260	41.138	164.851	1.00	0.00	H
ATOM	4570	HG	LEU	288	82.190	42.254	162.645	1.00	0.00	H
ATOM	4571	HD11	LEU	288	82.490	44.599	163.358	1.00	0.00	H
ATOM	4572	HD12	LEU	288	84.154	44.233	163.872	1.00	0.00	H

ATOM	4573	HD13	LEU	288	83.712	44.134	162.151	1.00	0.00	H
ATOM	4574	HD21	LEU	288	85.005	41.925	163.820	1.00	0.00	H
ATOM	4575	HD22	LEU	288	83.986	40.599	163.210	1.00	0.00	H
ATOM	4576	HD23	LEU	288	84.598	41.839	162.090	1.00	0.00	H
ATOM	4577	N	GLY	289	79.447	41.519	163.988	1.00	0.00	N
ATOM	4578	CA	GLY	289	78.440	41.152	162.992	1.00	0.00	C
ATOM	4579	C	GLY	289	77.195	42.049	163.026	1.00	0.00	C
ATOM	4580	O	GLY	289	76.711	42.437	161.964	1.00	0.00	O
ATOM	4581	H	GLY	289	79.706	40.835	164.685	1.00	0.00	H
ATOM	4582	HA2	GLY	289	78.891	41.224	162.002	1.00	0.00	H
ATOM	4583	HA3	GLY	289	78.130	40.123	163.177	1.00	0.00	H
ATOM	4584	N	GLY	290	76.756	42.477	164.214	1.00	0.00	N
ATOM	4585	CA	GLY	290	75.649	43.425	164.383	1.00	0.00	C
ATOM	4586	C	GLY	290	75.956	44.816	163.826	1.00	0.00	C
ATOM	4587	O	GLY	290	75.158	45.343	163.054	1.00	0.00	O

ATOM	4588	H	GLY	290	77.213	42.127	165.044	1.00	0.00	H
ATOM	4589	HA2	GLY	290	74.774	43.031	163.867	1.00	0.00	H
ATOM	4590	HA3	GLY	290	75.432	43.518	165.447	1.00	0.00	H
ATOM	4591	N	VAL	291	77.136	45.389	164.104	1.00	0.00	N
ATOM	4592	CA	VAL	291	77.540	46.677	163.504	1.00	0.00	C
ATOM	4593	C	VAL	291	77.833	46.613	161.993	1.00	0.00	C
ATOM	4594	O	VAL	291	77.475	47.542	161.260	1.00	0.00	O
ATOM	4595	CB	VAL	291	78.622	47.409	164.329	1.00	0.00	C
ATOM	4596	CG1	VAL	291	80.050	46.919	164.064	1.00	0.00	C
ATOM	4597	CG2	VAL	291	78.591	48.915	164.038	1.00	0.00	C
ATOM	4598	H	VAL	291	77.767	44.926	164.742	1.00	0.00	H
ATOM	4599	HA	VAL	291	76.654	47.309	163.563	1.00	0.00	H
ATOM	4600	HB	VAL	291	78.377	47.191	165.369	1.00	0.00	H
ATOM	4601	HG11	VAL	291	80.105	45.846	164.246	1.00	0.00	H
ATOM	4602	HG12	VAL	291	80.319	47.126	163.028	1.00	0.00	H
ATOM	4603	HG13	VAL	291	80.741	47.436	164.729	1.00	0.00	H

ATOM	4604	HG21 VAL	291	78.841	49.088	162.991	1.00	0.00	H
ATOM	4605	HG22 VAL	291	77.594	49.304	164.243	1.00	0.00	H
ATOM	4606	HG23 VAL	291	79.317	49.423	164.673	1.00	0.00	H
ATOM	4607	N LEU	292	78.331	45.480	161.487	1.00	0.00	N
ATOM	4608	CA LEU	292	78.460	45.221	160.042	1.00	0.00	C
ATOM	4609	C LEU	292	77.087	45.125	159.352	1.00	0.00	C
ATOM	4610	O LEU	292	76.885	45.762	158.318	1.00	0.00	O
ATOM	4611	CB LEU	292	79.284	43.933	159.815	1.00	0.00	C
ATOM	4612	CG LEU	292	80.647	44.188	159.135	1.00	0.00	C
ATOM	4613	CD1 LEU	292	81.557	45.123	159.951	1.00	0.00	C
ATOM	4614	CD2 LEU	292	81.376	42.854	158.958	1.00	0.00	C
ATOM	4615	H LEU	292	78.635	44.763	162.130	1.00	0.00	H
ATOM	4616	HA LEU	292	78.983	46.064	159.590	1.00	0.00	H
ATOM	4617	HB2 LEU	292	79.463	43.463	160.782	1.00	0.00	H
ATOM	4618	HB3 LEU	292	78.704	43.259	159.185	1.00	0.00	H

ATOM	4619	HG	LEU	292	80.440	44.668	158.179	1.00	0.00	H
ATOM	4620	HD11	LEU	292	81.051	46.075	160.110	1.00	0.00	H
ATOM	4621	HD12	LEU	292	81.779	44.664	160.914	1.00	0.00	H
ATOM	4622	HD13	LEU	292	82.486	45.292	159.406	1.00	0.00	H
ATOM	4623	HD21	LEU	292	81.563	42.410	159.936	1.00	0.00	H
ATOM	4624	HD22	LEU	292	80.760	42.179	158.364	1.00	0.00	H
ATOM	4625	HD23	LEU	292	82.325	43.023	158.449	1.00	0.00	H
ATOM	4626	N	ALA	293	76.126	44.404	159.939	1.00	0.00	N
ATOM	4627	CA	ALA	293	74.770	44.282	159.397	1.00	0.00	C
ATOM	4628	C	ALA	293	73.986	45.607	159.491	1.00	0.00	C
ATOM	4629	O	ALA	293	73.264	45.960	158.553	1.00	0.00	O
ATOM	4630	CB	ALA	293	74.046	43.139	160.119	1.00	0.00	C
ATOM	4631	H	ALA	293	76.345	43.920	160.798	1.00	0.00	H
ATOM	4632	HA	ALA	293	74.835	44.050	158.334	1.00	0.00	H
ATOM	4633	HB1	ALA	293	74.602	42.212	159.980	1.00	0.00	H
ATOM	4634	HB2	ALA	293	73.978	43.366	161.183	1.00	0.00	H

ATOM	4635	HB3 ALA	293	73.043	43.027	159.707	1.00	0.00	H
ATOM	4636	N LEU	294	74.214	46.396	160.548	1.00	0.00	N
ATOM	4637	CA LEU	294	73.725	47.769	160.699	1.00	0.00	C
ATOM	4638	C LEU	294	74.219	48.660	159.550	1.00	0.00	C
ATOM	4639	O LEU	294	73.398	49.247	158.844	1.00	0.00	O
ATOM	4640	CB LEU	294	74.200	48.300	162.062	1.00	0.00	C
ATOM	4641	CG LEU	294	73.887	49.779	162.349	1.00	0.00	C
ATOM	4642	CD1 LEU	294	72.434	49.953	162.786	1.00	0.00	C
ATOM	4643	CD2 LEU	294	74.800	50.265	163.480	1.00	0.00	C
ATOM	4644	H LEU	294	74.767	46.014	161.302	1.00	0.00	H
ATOM	4645	HA LEU	294	72.636	47.782	160.660	1.00	0.00	H
ATOM	4646	HB2 LEU	294	73.725	47.701	162.839	1.00	0.00	H
ATOM	4647	HB3 LEU	294	75.281	48.171	162.113	1.00	0.00	H
ATOM	4648	HG LEU	294	74.052	50.355	161.439	1.00	0.00	H
ATOM	4649	HD11 LEU	294	71.772	49.595	161.997	1.00	0.00	H

ATOM	4650	HD12	LEU	294	72.257	49.380	163.696	1.00	0.00	H
ATOM	4651	HD13	LEU	294	72.236	51.008	162.976	1.00	0.00	H
ATOM	4652	HD21	LEU	294	74.614	49.673	164.376	1.00	0.00	H
ATOM	4653	HD22	LEU	294	75.842	50.153	163.180	1.00	0.00	H
ATOM	4654	HD23	LEU	294	74.593	51.315	163.688	1.00	0.00	H
ATOM	4655	N	LEU	295	75.539	48.687	159.302	1.00	0.00	N
ATOM	4656	CA	LEU	295	76.128	49.443	158.189	1.00	0.00	C
ATOM	4657	C	LEU	295	75.574	48.977	156.846	1.00	0.00	C
ATOM	4658	O	LEU	295	75.097	49.796	156.054	1.00	0.00	O
ATOM	4659	CB	LEU	295	77.670	49.301	158.193	1.00	0.00	C
ATOM	4660	CG	LEU	295	78.402	50.147	159.247	1.00	0.00	C
ATOM	4661	CD1	LEU	295	79.893	49.806	159.305	1.00	0.00	C
ATOM	4662	CD2	LEU	295	78.258	51.630	158.916	1.00	0.00	C
ATOM	4663	H	LEU	295	76.154	48.164	159.908	1.00	0.00	H
ATOM	4664	HA	LEU	295	75.862	50.491	158.327	1.00	0.00	H
ATOM	4665	HB2	LEU	295	77.912	48.254	158.374	1.00	0.00	H

ATOM	4666	HB3 LEU	295	78.038	49.594	157.210	1.00	0.00	H
ATOM	4667	HG LEU	295	77.951	49.925	160.214	1.00	0.00	H
ATOM	4668	HD11 LEU	295	80.015	48.747	159.534	1.00	0.00	H
ATOM	4669	HD12 LEU	295	80.353	50.025	158.342	1.00	0.00	H
ATOM	4670	HD13 LEU	295	80.372	50.403	160.081	1.00	0.00	H
ATOM	4671	HD21 LEU	295	78.715	51.832	157.947	1.00	0.00	H
ATOM	4672	HD22 LEU	295	77.201	51.894	158.882	1.00	0.00	H
ATOM	4673	HD23 LEU	295	78.756	52.223	159.683	1.00	0.00	H
ATOM	4674	N LEU	296	75.561	47.667	156.618	1.00	0.00	N
ATOM	4675	CA LEU	296	75.058	47.094	155.377	1.00	0.00	C
ATOM	4676	C LEU	296	73.565	47.389	155.166	1.00	0.00	C
ATOM	4677	O LEU	296	73.158	47.596	154.021	1.00	0.00	O
ATOM	4678	CB LEU	296	75.399	45.596	155.354	1.00	0.00	C
ATOM	4679	CG LEU	296	75.069	44.888	154.024	1.00	0.00	C
ATOM	4680	CD1 LEU	296	75.844	45.492	152.842	1.00	0.00	C

ATOM	4681	CD2	LEU	296	75.432	43.406	154.138	1.00	0.00	C
ATOM	4682	H	LEU	296	75.913	47.046	157.332	1.00	0.00	H
ATOM	4683	HA	LEU	296	75.549	47.567	154.527	1.00	0.00	H
ATOM	4684	HB2	LEU	296	76.467	45.486	155.543	1.00	0.00	H
ATOM	4685	HB3	LEU	296	74.837	45.106	156.149	1.00	0.00	H
ATOM	4686	HG	LEU	296	74.003	45.018	153.837	1.00	0.00	H
ATOM	4687	HD11	LEU	296	75.606	46.552	152.756	1.00	0.00	H
ATOM	4688	HD12	LEU	296	76.914	45.372	153.010	1.00	0.00	H
ATOM	4689	HD13	LEU	296	75.561	44.980	151.922	1.00	0.00	H
ATOM	4690	HD21	LEU	296	76.501	43.307	154.325	1.00	0.00	H
ATOM	4691	HD22	LEU	296	74.876	42.958	154.962	1.00	0.00	H
ATOM	4692	HD23	LEU	296	75.177	42.897	153.209	1.00	0.00	H
ATOM	4693	N	SER	297	72.764	47.552	156.227	1.00	0.00	N
ATOM	4694	CA	SER	297	71.330	47.851	156.110	1.00	0.00	C
ATOM	4695	C	SER	297	71.038	49.191	155.434	1.00	0.00	C
ATOM	4696	O	SER	297	69.981	49.326	154.810	1.00	0.00	O

ATOM	4697	CB	SER	297	70.612	47.790	157.472	1.00	0.00	C
ATOM	4698	OG	SER	297	70.845	48.927	158.284	1.00	0.00	O
ATOM	4699	H	SER	297	73.164	47.465	157.150	1.00	0.00	H
ATOM	4700	HA	SER	297	70.935	47.067	155.464	1.00	0.00	H
ATOM	4701	HB2	SER	297	70.961	46.907	158.007	1.00	0.00	H
ATOM	4702	HB3	SER	297	69.540	47.707	157.294	1.00	0.00	H
ATOM	4703	HG	SER	297	71.791	48.988	158.433	1.00	0.00	H
ATOM	4704	N	ILE	298	71.988	50.140	155.481	1.00	0.00	N
ATOM	4705	CA	ILE	298	71.914	51.438	154.797	1.00	0.00	C
ATOM	4706	C	ILE	298	72.818	51.510	153.558	1.00	0.00	C
ATOM	4707	O	ILE	298	72.373	51.964	152.502	1.00	0.00	O
ATOM	4708	CB	ILE	298	72.168	52.577	155.823	1.00	0.00	C
ATOM	4709	CG1	ILE	298	70.855	52.954	156.546	1.00	0.00	C
ATOM	4710	CG2	ILE	298	72.828	53.838	155.226	1.00	0.00	C
ATOM	4711	CD1	ILE	298	69.768	53.534	155.616	1.00	0.00	C

ATOM	4712	H	ILE	298	72.815	49.946	156.028	1.00	0.00	H
ATOM	4713	HA	ILE	298	70.908	51.568	154.397	1.00	0.00	H
ATOM	4714	HB	ILE	298	72.888	52.174	156.535	1.00	0.00	H
ATOM	4715	HG12	ILE	298	70.456	52.058	157.021	1.00	0.00	H
ATOM	4716	HG13	ILE	298	71.086	53.698	157.309	1.00	0.00	H
ATOM	4717	HG21	ILE	298	73.760	53.561	154.733	1.00	0.00	H
ATOM	4718	HG22	ILE	298	72.153	54.292	154.500	1.00	0.00	H
ATOM	4719	HG23	ILE	298	73.037	54.551	156.024	1.00	0.00	H
ATOM	4720	HD11	ILE	298	70.139	54.446	155.148	1.00	0.00	H
ATOM	4721	HD12	ILE	298	69.523	52.804	154.845	1.00	0.00	H
ATOM	4722	HD13	ILE	298	68.875	53.761	156.198	1.00	0.00	H
ATOM	4723	N	LEU	299	74.053	51.001	153.629	1.00	0.00	N
ATOM	4724	CA	LEU	299	74.990	51.041	152.500	1.00	0.00	C
ATOM	4725	C	LEU	299	74.553	50.152	151.320	1.00	0.00	C
ATOM	4726	O	LEU	299	74.973	50.414	150.183	1.00	0.00	O
ATOM	4727	CB	LEU	299	76.413	50.711	152.985	1.00	0.00	C

ATOM	4728	CG	LEU	299	77.006	51.703	153.999	1.00	0.00	C
ATOM	4729	CD1	LEU	299	78.407	51.267	154.414	1.00	0.00	C
ATOM	4730	CD2	LEU	299	77.131	53.138	153.444	1.00	0.00	C
ATOM	4731	H	LEU	299	74.352	50.572	154.493	1.00	0.00	H
ATOM	4732	HA	LEU	299	74.987	52.057	152.105	1.00	0.00	H
ATOM	4733	HB2	LEU	299	76.390	49.726	153.451	1.00	0.00	H
ATOM	4734	HB3	LEU	299	77.069	50.686	152.115	1.00	0.00	H
ATOM	4735	HG	LEU	299	76.314	51.705	154.841	1.00	0.00	H
ATOM	4736	HD11	LEU	299	78.367	50.258	154.824	1.00	0.00	H
ATOM	4737	HD12	LEU	299	79.064	51.280	153.544	1.00	0.00	H
ATOM	4738	HD13	LEU	299	78.792	51.952	155.170	1.00	0.00	H
ATOM	4739	HD21	LEU	299	77.822	53.143	152.601	1.00	0.00	H
ATOM	4740	HD22	LEU	299	76.153	53.486	153.113	1.00	0.00	H
ATOM	4741	HD23	LEU	299	77.506	53.798	154.226	1.00	0.00	H
ATOM	4742	N	ILE	300	73.627	49.203	151.522	1.00	0.00	N

ATOM	4743	CA	ILE	300	73.013	48.417	150.435	1.00	0.00	C
ATOM	4744	C	ILE	300	72.291	49.285	149.387	1.00	0.00	C
ATOM	4745	O	ILE	300	72.237	48.888	148.222	1.00	0.00	O
ATOM	4746	CB	ILE	300	72.081	47.325	151.012	1.00	0.00	C
ATOM	4747	CG1	ILE	300	71.588	46.374	149.897	1.00	0.00	C
ATOM	4748	CG2	ILE	300	70.871	47.922	151.762	1.00	0.00	C
ATOM	4749	CD1	ILE	300	71.093	45.020	150.425	1.00	0.00	C
ATOM	4750	H	ILE	300	73.334	49.016	152.470	1.00	0.00	H
ATOM	4751	HA	ILE	300	73.829	47.931	149.900	1.00	0.00	H
ATOM	4752	HB	ILE	300	72.673	46.760	151.732	1.00	0.00	H
ATOM	4753	HG12	ILE	300	70.768	46.859	149.367	1.00	0.00	H
ATOM	4754	HG13	ILE	300	72.412	46.195	149.206	1.00	0.00	H
ATOM	4755	HG21	ILE	300	71.224	48.577	152.558	1.00	0.00	H
ATOM	4756	HG22	ILE	300	70.258	48.494	151.066	1.00	0.00	H
ATOM	4757	HG23	ILE	300	70.276	47.116	152.192	1.00	0.00	H
ATOM	4758	HD11	ILE	300	71.907	44.511	150.941	1.00	0.00	H

ATOM	4759	HD12	ILE	300	70.268	45.180	151.119	1.00	0.00	H
ATOM	4760	HD13	ILE	300	70.753	44.407	149.590	1.00	0.00	H
ATOM	4761	N	LEU	301	71.871	50.512	149.729	1.00	0.00	N
ATOM	4762	CA	LEU	301	71.336	51.469	148.749	1.00	0.00	C
ATOM	4763	C	LEU	301	72.340	51.755	147.614	1.00	0.00	C
ATOM	4764	O	LEU	301	71.921	51.900	146.466	1.00	0.00	O
ATOM	4765	CB	LEU	301	70.944	52.787	149.443	1.00	0.00	C
ATOM	4766	CG	LEU	301	69.793	52.704	150.467	1.00	0.00	C
ATOM	4767	CD1	LEU	301	69.614	54.076	151.113	1.00	0.00	C
ATOM	4768	CD2	LEU	301	68.455	52.298	149.840	1.00	0.00	C
ATOM	4769	H	LEU	301	71.924	50.790	150.699	1.00	0.00	H
ATOM	4770	HA	LEU	301	70.450	51.014	148.305	1.00	0.00	H
ATOM	4771	HB2	LEU	301	71.825	53.163	149.963	1.00	0.00	H
ATOM	4772	HB3	LEU	301	70.649	53.495	148.669	1.00	0.00	H
ATOM	4773	HG	LEU	301	70.066	51.937	151.192	1.00	0.00	H

ATOM	4774	HD11	LEU	301	70.547	54.378	151.589	1.00	0.00	H
ATOM	4775	HD12	LEU	301	69.343	54.805	150.349	1.00	0.00	H
ATOM	4776	HD13	LEU	301	68.824	54.024	151.862	1.00	0.00	H
ATOM	4777	HD21	LEU	301	68.154	53.048	149.108	1.00	0.00	H
ATOM	4778	HD22	LEU	301	68.563	51.332	149.347	1.00	0.00	H
ATOM	4779	HD23	LEU	301	67.696	52.226	150.619	1.00	0.00	H
ATOM	4780	N	ALA	302	73.648	51.738	147.886	1.00	0.00	N
ATOM	4781	CA	ALA	302	74.677	51.939	146.859	1.00	0.00	C
ATOM	4782	C	ALA	302	74.806	50.729	145.919	1.00	0.00	C
ATOM	4783	O	ALA	302	75.214	50.889	144.768	1.00	0.00	O
ATOM	4784	CB	ALA	302	76.008	52.269	147.546	1.00	0.00	C
ATOM	4785	H	ALA	302	73.941	51.580	148.839	1.00	0.00	H
ATOM	4786	HA	ALA	302	74.381	52.776	146.226	1.00	0.00	H
ATOM	4787	HB1	ALA	302	75.890	53.164	148.156	1.00	0.00	H
ATOM	4788	HB2	ALA	302	76.306	51.434	148.180	1.00	0.00	H
ATOM	4789	HB3	ALA	302	76.774	52.443	146.790	1.00	0.00	H

ATOM	4790	N	MET	303	74.398	49.536	146.369	1.00	0.00	N
ATOM	4791	CA	MET	303	74.419	48.316	145.564	1.00	0.00	C
ATOM	4792	C	MET	303	73.179	48.188	144.665	1.00	0.00	C
ATOM	4793	O	MET	303	73.288	47.605	143.587	1.00	0.00	O
ATOM	4794	CB	MET	303	74.588	47.116	146.512	1.00	0.00	C
ATOM	4795	CG	MET	303	74.960	45.826	145.775	1.00	0.00	C
ATOM	4796	SD	MET	303	76.596	45.848	144.979	1.00	0.00	S
ATOM	4797	CE	MET	303	76.523	44.263	144.110	1.00	0.00	C
ATOM	4798	H	MET	303	74.057	49.476	147.318	1.00	0.00	H
ATOM	4799	HA	MET	303	75.262	48.350	144.874	1.00	0.00	H
ATOM	4800	HB2	MET	303	73.649	46.956	147.042	1.00	0.00	H
ATOM	4801	HB3	MET	303	75.376	47.347	147.229	1.00	0.00	H
ATOM	4802	HG2	MET	303	74.210	45.647	145.004	1.00	0.00	H
ATOM	4803	HG3	MET	303	74.944	45.007	146.495	1.00	0.00	H
ATOM	4804	HE1	MET	303	76.388	43.458	144.833	1.00	0.00	H

ATOM	4805	HE2	MET	303	75.686	44.269	143.412	1.00	0.00	H
ATOM	4806	HE3	MET	303	77.452	44.106	143.561	1.00	0.00	H
ATOM	4807	N	ILE	304	72.028	48.777	145.027	1.00	0.00	N
ATOM	4808	CA	ILE	304	70.760	48.658	144.274	1.00	0.00	C
ATOM	4809	C	ILE	304	70.881	48.921	142.753	1.00	0.00	C
ATOM	4810	O	ILE	304	70.391	48.081	141.999	1.00	0.00	O
ATOM	4811	CB	ILE	304	69.631	49.475	144.954	1.00	0.00	C
ATOM	4812	CG1	ILE	304	69.193	48.724	146.237	1.00	0.00	C
ATOM	4813	CG2	ILE	304	68.413	49.702	144.037	1.00	0.00	C
ATOM	4814	CD1	ILE	304	68.144	49.454	147.083	1.00	0.00	C
ATOM	4815	H	ILE	304	72.028	49.337	145.867	1.00	0.00	H
ATOM	4816	HA	ILE	304	70.480	47.606	144.321	1.00	0.00	H
ATOM	4817	HB	ILE	304	70.025	50.464	145.189	1.00	0.00	H
ATOM	4818	HG12	ILE	304	68.779	47.760	145.941	1.00	0.00	H
ATOM	4819	HG13	ILE	304	70.077	48.565	146.855	1.00	0.00	H
ATOM	4820	HG21	ILE	304	68.731	50.222	143.133	1.00	0.00	H

ATOM	4821	HG22	ILE	304	67.976	48.740	143.769	1.00	0.00	H
ATOM	4822	HG23	ILE	304	67.671	50.305	144.561	1.00	0.00	H
ATOM	4823	HD11	ILE	304	68.547	50.411	147.415	1.00	0.00	H
ATOM	4824	HD12	ILE	304	67.249	49.624	146.485	1.00	0.00	H
ATOM	4825	HD13	ILE	304	67.890	48.846	147.951	1.00	0.00	H
ATOM	4826	N	PRO	305	71.607	49.948	142.256	1.00	0.00	N
ATOM	4827	CA	PRO	305	71.813	50.131	140.814	1.00	0.00	C
ATOM	4828	C	PRO	305	72.509	48.952	140.103	1.00	0.00	C
ATOM	4829	O	PRO	305	72.222	48.692	138.941	1.00	0.00	O
ATOM	4830	CB	PRO	305	72.637	51.418	140.676	1.00	0.00	C
ATOM	4831	CG	PRO	305	72.278	52.205	141.938	1.00	0.00	C
ATOM	4832	CD	PRO	305	72.103	51.110	142.984	1.00	0.00	C
ATOM	4833	HA	PRO	305	70.843	50.188	140.320	1.00	0.00	H
ATOM	4834	HB2	PRO	305	73.704	51.197	140.644	1.00	0.00	H
ATOM	4835	HB3	PRO	305	72.353	51.969	139.779	1.00	0.00	H

ATOM	4836	HG2 PRO	305	71.354	52.767	141.800	1.00	0.00	H
ATOM	4837	HG3 PRO	305	73.081	52.888	142.216	1.00	0.00	H
ATOM	4838	HD2 PRO	305	71.384	51.420	143.742	1.00	0.00	H
ATOM	4839	HD3 PRO	305	73.057	50.882	143.460	1.00	0.00	H
ATOM	4840	N ILE	306	73.381	48.212	140.799	1.00	0.00	N
ATOM	4841	CA ILE	306	74.083	47.023	140.280	1.00	0.00	C
ATOM	4842	C ILE	306	73.182	45.770	140.323	1.00	0.00	C
ATOM	4843	O ILE	306	73.411	44.804	139.599	1.00	0.00	O
ATOM	4844	CB ILE	306	75.393	46.800	141.087	1.00	0.00	C
ATOM	4845	CG1 ILE	306	76.239	48.082	141.279	1.00	0.00	C
ATOM	4846	CG2 ILE	306	76.266	45.695	140.458	1.00	0.00	C
ATOM	4847	CD1 ILE	306	76.663	48.786	139.983	1.00	0.00	C
ATOM	4848	H ILE	306	73.573	48.489	141.751	1.00	0.00	H
ATOM	4849	HA ILE	306	74.335	47.196	139.234	1.00	0.00	H
ATOM	4850	HB ILE	306	75.060	46.486	142.076	1.00	0.00	H
ATOM	4851	HG12 ILE	306	75.654	48.787	141.870	1.00	0.00	H

ATOM	4852	HG13	ILE	306	77.142	47.811	141.826	1.00	0.00	H
ATOM	4853	HG21	ILE	306	75.683	44.778	140.369	1.00	0.00	H
ATOM	4854	HG22	ILE	306	76.597	46.012	139.469	1.00	0.00	H
ATOM	4855	HG23	ILE	306	77.135	45.514	141.091	1.00	0.00	H
ATOM	4856	HD11	ILE	306	77.276	48.111	139.387	1.00	0.00	H
ATOM	4857	HD12	ILE	306	75.776	49.068	139.416	1.00	0.00	H
ATOM	4858	HD13	ILE	306	77.238	49.680	140.226	1.00	0.00	H
ATOM	4859	N	LEU	307	72.138	45.796	141.156	1.00	0.00	N
ATOM	4860	CA	LEU	307	71.156	44.724	141.337	1.00	0.00	C
ATOM	4861	C	LEU	307	69.930	44.854	140.403	1.00	0.00	C
ATOM	4862	O	LEU	307	69.049	43.990	140.409	1.00	0.00	O
ATOM	4863	CB	LEU	307	70.743	44.682	142.826	1.00	0.00	C
ATOM	4864	CG	LEU	307	71.900	44.445	143.814	1.00	0.00	C
ATOM	4865	CD1	LEU	307	71.428	44.704	145.245	1.00	0.00	C
ATOM	4866	CD2	LEU	307	72.463	43.024	143.728	1.00	0.00	C

ATOM	4867	H	LEU	307	72.014	46.630	141.711	1.00	0.00	H
ATOM	4868	HA	LEU	307	71.622	43.780	141.055	1.00	0.00	H
ATOM	4869	HB2	LEU	307	70.275	45.635	143.075	1.00	0.00	H
ATOM	4870	HB3	LEU	307	70.019	43.878	142.954	1.00	0.00	H
ATOM	4871	HG	LEU	307	72.695	45.139	143.541	1.00	0.00	H
ATOM	4872	HD11	LEU	307	71.049	45.723	145.324	1.00	0.00	H
ATOM	4873	HD12	LEU	307	70.635	44.001	145.499	1.00	0.00	H
ATOM	4874	HD13	LEU	307	72.264	44.573	145.933	1.00	0.00	H
ATOM	4875	HD21	LEU	307	71.686	42.308	143.997	1.00	0.00	H
ATOM	4876	HD22	LEU	307	72.801	42.828	142.710	1.00	0.00	H
ATOM	4877	HD23	LEU	307	73.303	42.924	144.415	1.00	0.00	H
ATOM	4878	N	HIS	308	69.862	45.900	139.570	1.00	0.00	N
ATOM	4879	CA	HIS	308	68.762	46.091	138.624	1.00	0.00	C
ATOM	4880	C	HIS	308	68.887	45.148	137.417	1.00	0.00	C
ATOM	4881	O	HIS	308	69.775	45.298	136.571	1.00	0.00	O
ATOM	4882	CB	HIS	308	68.671	47.560	138.199	1.00	0.00	C

ATOM	4883	CG	HIS	308	67.478	47.821	137.308	1.00	0.00	C
ATOM	4884	ND1	HIS	308	66.175	48.107	137.747	1.00	0.00	N
ATOM	4885	CD2	HIS	308	67.481	47.745	135.941	1.00	0.00	C
ATOM	4886	CE1	HIS	308	65.438	48.234	136.632	1.00	0.00	C
ATOM	4887	NE2	HIS	308	66.188	47.997	135.536	1.00	0.00	N
ATOM	4888	H	HIS	308	70.602	46.587	139.596	1.00	0.00	H
ATOM	4889	HA	HIS	308	67.830	45.832	139.126	1.00	0.00	H
ATOM	4890	HB2	HIS	308	69.579	47.826	137.658	1.00	0.00	H
ATOM	4891	HB3	HIS	308	68.585	48.180	139.092	1.00	0.00	H
ATOM	4892	HD2	HIS	308	68.328	47.530	135.306	1.00	0.00	H
ATOM	4893	HE2	HIS	308	65.858	48.003	134.581	1.00	0.00	H
ATOM	4894	HE1	HIS	308	64.389	48.491	136.615	1.00	0.00	H
ATOM	4895	N	MET	309	67.916	44.235	137.290	1.00	0.00	N
ATOM	4896	CA	MET	309	67.894	43.204	136.240	1.00	0.00	C
ATOM	4897	C	MET	309	66.752	43.366	135.224	1.00	0.00	C

ATOM	4898	O	MET	309	66.650	42.587	134.275	1.00	0.00	O
ATOM	4899	CB	MET	309	67.848	41.817	136.911	1.00	0.00	C
ATOM	4900	CG	MET	309	69.135	41.493	137.677	1.00	0.00	C
ATOM	4901	SD	MET	309	70.582	41.207	136.628	1.00	0.00	S
ATOM	4902	CE	MET	309	71.833	40.901	137.908	1.00	0.00	C
ATOM	4903	H	MET	309	67.155	44.255	137.953	1.00	0.00	H
ATOM	4904	HA	MET	309	68.806	43.317	135.653	1.00	0.00	H
ATOM	4905	HB2	MET	309	67.700	41.061	136.140	1.00	0.00	H
ATOM	4906	HB3	MET	309	67.011	41.794	137.609	1.00	0.00	H
ATOM	4907	HG2	MET	309	68.961	40.595	138.270	1.00	0.00	H
ATOM	4908	HG3	MET	309	69.356	42.329	138.341	1.00	0.00	H
ATOM	4909	HE1	MET	309	71.916	41.777	138.552	1.00	0.00	H
ATOM	4910	HE2	MET	309	71.538	40.038	138.505	1.00	0.00	H
ATOM	4911	HE3	MET	309	72.796	40.705	137.436	1.00	0.00	H
ATOM	4912	N	SER	310	65.829	44.309	135.443	1.00	0.00	N
ATOM	4913	CA	SER	310	64.650	44.504	134.593	1.00	0.00	C

ATOM	4914	C	SER	310	64.979	45.298	133.329	1.00	0.00	C
ATOM	4915	O	SER	310	65.569	46.374	133.412	1.00	0.00	O
ATOM	4916	CB	SER	310	63.529	45.169	135.408	1.00	0.00	C
ATOM	4917	OG	SER	310	62.520	45.729	134.589	1.00	0.00	O
ATOM	4918	H	SER	310	65.951	44.920	136.238	1.00	0.00	H
ATOM	4919	HA	SER	310	64.304	43.527	134.256	1.00	0.00	H
ATOM	4920	HB2	SER	310	63.963	45.961	136.018	1.00	0.00	H
ATOM	4921	HB3	SER	310	63.076	44.419	136.056	1.00	0.00	H
ATOM	4922	HG	SER	310	62.935	46.386	134.026	1.00	0.00	H
ATOM	4923	N	LYS	311	64.457	44.877	132.169	1.00	0.00	N
ATOM	4924	CA	LYS	311	64.557	45.654	130.916	1.00	0.00	C
ATOM	4925	C	LYS	311	63.635	46.887	130.878	1.00	0.00	C
ATOM	4926	O	LYS	311	63.819	47.781	130.057	1.00	0.00	O
ATOM	4927	CB	LYS	311	64.413	44.706	129.709	1.00	0.00	C
ATOM	4928	CG	LYS	311	65.653	43.784	129.629	1.00	0.00	C

ATOM	4929	CD	LYS	311	65.548	42.626	128.606	1.00	0.00	C
ATOM	4930	CE	LYS	311	65.383	43.040	127.110	1.00	0.00	C
ATOM	4931	NZ	LYS	311	65.558	41.871	126.137	1.00	0.00	N1+
ATOM	4932	H	LYS	311	63.974	43.990	132.150	1.00	0.00	H
ATOM	4933	HA	LYS	311	65.551	46.099	130.863	1.00	0.00	H
ATOM	4934	HB2	LYS	311	63.516	44.099	129.828	1.00	0.00	H
ATOM	4935	HB3	LYS	311	64.336	45.292	128.793	1.00	0.00	H
ATOM	4936	HG2	LYS	311	66.512	44.397	129.357	1.00	0.00	H
ATOM	4937	HG3	LYS	311	65.814	43.349	130.615	1.00	0.00	H
ATOM	4938	HD2	LYS	311	64.686	42.018	128.880	1.00	0.00	H
ATOM	4939	HD3	LYS	311	66.455	42.027	128.687	1.00	0.00	H
ATOM	4940	HE2	LYS	311	66.129	43.799	126.877	1.00	0.00	H
ATOM	4941	HE3	LYS	311	64.385	43.457	126.974	1.00	0.00	H
ATOM	4942	HZ1	LYS	311	66.479	41.473	126.251	1.00	0.00	H
ATOM	4943	HZ2	LYS	311	64.861	41.166	126.329	1.00	0.00	H
ATOM	4944	HZ3	LYS	311	65.449	42.203	125.189	1.00	0.00	H

ATOM	4945	N	GLN	312	62.718	47.002	131.853	1.00	0.00	N
ATOM	4946	CA	GLN	312	61.951	48.210	132.190	1.00	0.00	C
ATOM	4947	C	GLN	312	62.580	48.931	133.399	1.00	0.00	C
ATOM	4948	O	GLN	312	62.985	48.272	134.362	1.00	0.00	O
ATOM	4949	CB	GLN	312	60.497	47.818	132.515	1.00	0.00	C
ATOM	4950	CG	GLN	312	59.780	47.114	131.345	1.00	0.00	C
ATOM	4951	CD	GLN	312	58.614	46.232	131.787	1.00	0.00	C
ATOM	4952	OE1	GLN	312	57.465	46.615	131.694	1.00	0.00	O
ATOM	4953	NE2	GLN	312	58.848	45.161	132.520	1.00	0.00	N
ATOM	4954	H	GLN	312	62.538	46.178	132.409	1.00	0.00	H
ATOM	4955	HA	GLN	312	61.967	48.888	131.337	1.00	0.00	H
ATOM	4956	HB2	GLN	312	60.503	47.145	133.372	1.00	0.00	H
ATOM	4957	HB3	GLN	312	59.943	48.722	132.767	1.00	0.00	H
ATOM	4958	HG2	GLN	312	60.505	46.491	130.821	1.00	0.00	H
ATOM	4959	HG3	GLN	312	59.398	47.876	130.666	1.00	0.00	H

ATOM	4960	HE21	GLN	312	58.084	44.688	132.981	1.00	0.00	H
ATOM	4961	HE22	GLN	312	59.791	44.814	132.620	1.00	0.00	H
ATOM	4962	N	GLN	313	62.598	50.270	133.420	1.00	0.00	N
ATOM	4963	CA	GLN	313	63.072	51.031	134.579	1.00	0.00	C
ATOM	4964	C	GLN	313	62.077	50.928	135.757	1.00	0.00	C
ATOM	4965	O	GLN	313	62.339	50.246	136.764	1.00	0.00	O
ATOM	4966	CB	GLN	313	63.388	52.485	134.157	1.00	0.00	C
ATOM	4967	CG	GLN	313	63.922	53.326	135.326	1.00	0.00	C
ATOM	4968	CD	GLN	313	64.311	54.752	134.949	1.00	0.00	C
ATOM	4969	OE1	GLN	313	63.791	55.360	134.019	1.00	0.00	O
ATOM	4970	NE2	GLN	313	65.231	55.359	135.661	1.00	0.00	N
ATOM	4971	H	GLN	313	62.273	50.774	132.607	1.00	0.00	H
ATOM	4972	HA	GLN	313	64.003	50.599	134.947	1.00	0.00	H
ATOM	4973	HB2	GLN	313	64.139	52.466	133.367	1.00	0.00	H
ATOM	4974	HB3	GLN	313	62.476	52.947	133.780	1.00	0.00	H
ATOM	4975	HG2	GLN	313	64.803	52.828	135.730	1.00	0.00	H

ATOM	4976	HG3	GLN	313	63.148	53.375	136.092	1.00	0.00	H
ATOM	4977	HE21	GLN	313	65.673	54.878	136.431	1.00	0.00	H
ATOM	4978	HE22	GLN	313	65.498	56.307	135.439	1.00	0.00	H
ATOM	4979	N	SER	314	60.875	51.522	135.571	1.00	0.00	N
ATOM	4980	CA	SER	314	59.846	51.617	136.614	1.00	0.00	C
ATOM	4981	C	SER	314	59.156	50.285	136.966	1.00	0.00	C
ATOM	4982	O	SER	314	59.118	49.367	136.145	1.00	0.00	O
ATOM	4983	CB	SER	314	58.841	52.685	136.167	1.00	0.00	C
ATOM	4984	OG	SER	314	57.740	52.702	137.049	1.00	0.00	O
ATOM	4985	H	SER	314	60.675	51.922	134.665	1.00	0.00	H
ATOM	4986	HA	SER	314	60.332	51.898	137.548	1.00	0.00	H
ATOM	4987	HB2	SER	314	58.494	52.457	135.159	1.00	0.00	H
ATOM	4988	HB3	SER	314	59.324	53.662	136.172	1.00	0.00	H
ATOM	4989	HG	SER	314	57.335	51.832	137.024	1.00	0.00	H
ATOM	4990	N	MET	315	58.555	50.183	138.161	1.00	0.00	N

ATOM	4991	CA	MET	315	57.684	49.075	138.569	1.00	0.00	C
ATOM	4992	C	MET	315	56.213	49.167	138.108	1.00	0.00	C
ATOM	4993	O	MET	315	55.514	48.160	138.141	1.00	0.00	O
ATOM	4994	CB	MET	315	57.752	48.860	140.088	1.00	0.00	C
ATOM	4995	CG	MET	315	59.112	48.311	140.522	1.00	0.00	C
ATOM	4996	SD	MET	315	59.203	47.966	142.300	1.00	0.00	S
ATOM	4997	CE	MET	315	61.000	47.917	142.490	1.00	0.00	C
ATOM	4998	H	MET	315	58.714	50.924	138.829	1.00	0.00	H
ATOM	4999	HA	MET	315	58.087	48.211	138.041	1.00	0.00	H
ATOM	5000	HB2	MET	315	56.976	48.152	140.380	1.00	0.00	H
ATOM	5001	HB3	MET	315	57.580	49.813	140.588	1.00	0.00	H
ATOM	5002	HG2	MET	315	59.879	49.044	140.271	1.00	0.00	H
ATOM	5003	HG3	MET	315	59.302	47.386	139.979	1.00	0.00	H
ATOM	5004	HE1	MET	315	61.411	47.130	141.857	1.00	0.00	H
ATOM	5005	HE2	MET	315	61.423	48.878	142.196	1.00	0.00	H
ATOM	5006	HE3	MET	315	61.250	47.714	143.531	1.00	0.00	H

ATOM	5007	N	MET	316	55.749	50.315	137.601	1.00	0.00	N
ATOM	5008	CA	MET	316	54.367	50.520	137.099	1.00	0.00	C
ATOM	5009	C	MET	316	53.814	49.446	136.128	1.00	0.00	C
ATOM	5010	O	MET	316	52.606	49.230	136.091	1.00	0.00	O
ATOM	5011	CB	MET	316	54.271	51.925	136.465	1.00	0.00	C
ATOM	5012	CG	MET	316	52.936	52.212	135.759	1.00	0.00	C
ATOM	5013	SD	MET	316	52.646	53.951	135.340	1.00	0.00	S
ATOM	5014	CE	MET	316	51.075	53.791	134.445	1.00	0.00	C
ATOM	5015	H	MET	316	56.385	51.099	137.557	1.00	0.00	H
ATOM	5016	HA	MET	316	53.726	50.421	137.975	1.00	0.00	H
ATOM	5017	HB2	MET	316	55.072	52.024	135.733	1.00	0.00	H
ATOM	5018	HB3	MET	316	54.406	52.665	137.254	1.00	0.00	H
ATOM	5019	HG2	MET	316	52.130	51.884	136.415	1.00	0.00	H
ATOM	5020	HG3	MET	316	52.911	51.634	134.835	1.00	0.00	H
ATOM	5021	HE1	MET	316	51.214	53.142	133.581	1.00	0.00	H

ATOM	5022	HE2	MET	316	50.323	53.360	135.106	1.00	0.00	H
ATOM	5023	HE3	MET	316	50.745	54.775	134.111	1.00	0.00	H
ATOM	5024	N	PHE	317	54.686	48.739	135.399	1.00	0.00	N
ATOM	5025	CA	PHE	317	54.319	47.684	134.445	1.00	0.00	C
ATOM	5026	C	PHE	317	54.694	46.255	134.886	1.00	0.00	C
ATOM	5027	O	PHE	317	54.490	45.297	134.142	1.00	0.00	O
ATOM	5028	CB	PHE	317	54.903	48.036	133.071	1.00	0.00	C
ATOM	5029	CG	PHE	317	54.425	49.349	132.484	1.00	0.00	C
ATOM	5030	CD1	PHE	317	53.048	49.636	132.366	1.00	0.00	C
ATOM	5031	CD2	PHE	317	55.372	50.307	132.076	1.00	0.00	C
ATOM	5032	CE1	PHE	317	52.627	50.867	131.828	1.00	0.00	C
ATOM	5033	CE2	PHE	317	54.954	51.534	131.536	1.00	0.00	C
ATOM	5034	CZ	PHE	317	53.580	51.810	131.404	1.00	0.00	C
ATOM	5035	H	PHE	317	55.668	48.946	135.513	1.00	0.00	H
ATOM	5036	HA	PHE	317	53.230	47.658	134.396	1.00	0.00	H
ATOM	5037	HB2	PHE	317	55.988	48.085	133.168	1.00	0.00	H

ATOM	5038	HB3 PHE	317	54.636	47.239	132.377	1.00	0.00	H
ATOM	5039	HD1 PHE	317	52.316	48.910	132.689	1.00	0.00	H
ATOM	5040	HD2 PHE	317	56.426	50.097	132.179	1.00	0.00	H
ATOM	5041	HE1 PHE	317	51.573	51.087	131.741	1.00	0.00	H
ATOM	5042	HE2 PHE	317	55.685	52.264	131.223	1.00	0.00	H
ATOM	5043	HZ PHE	317	53.257	52.748	130.976	1.00	0.00	H
ATOM	5044	N ARG	318	55.264	46.096	136.092	1.00	0.00	N
ATOM	5045	CA ARG	318	55.840	44.834	136.569	1.00	0.00	C
ATOM	5046	C ARG	318	55.314	44.428	137.965	1.00	0.00	C
ATOM	5047	O ARG	318	55.831	44.885	138.988	1.00	0.00	O
ATOM	5048	CB ARG	318	57.365	44.804	136.362	1.00	0.00	C
ATOM	5049	CG ARG	318	58.165	46.012	136.859	1.00	0.00	C
ATOM	5050	CD ARG	318	59.623	45.724	136.440	1.00	0.00	C
ATOM	5051	NE ARG	318	60.429	46.852	136.943	1.00	0.00	N
ATOM	5052	CZ ARG	318	61.404	46.749	137.836	1.00	0.00	C

ATOM	5053	NH1	ARG	318	61.622	45.664	138.521	1.00	0.00	N
ATOM	5054	NH2	ARG	318	62.187	47.762	138.082	1.00	0.00	N1+
ATOM	5055	H	ARG	318	55.298	46.895	136.709	1.00	0.00	H
ATOM	5056	HA	ARG	318	55.476	44.019	135.944	1.00	0.00	H
ATOM	5057	HB2	ARG	318	57.748	43.923	136.877	1.00	0.00	H
ATOM	5058	HB3	ARG	318	57.548	44.708	135.292	1.00	0.00	H
ATOM	5059	HG2	ARG	318	58.088	46.103	137.942	1.00	0.00	H
ATOM	5060	HG3	ARG	318	57.806	46.929	136.391	1.00	0.00	H
ATOM	5061	HD2	ARG	318	59.698	45.661	135.354	1.00	0.00	H
ATOM	5062	HD3	ARG	318	59.965	44.789	136.883	1.00	0.00	H
ATOM	5063	HE	ARG	318	60.223	47.772	136.580	1.00	0.00	H
ATOM	5064	HH11	ARG	318	62.367	45.638	139.202	1.00	0.00	H
ATOM	5065	HH12	ARG	318	61.046	44.848	138.372	1.00	0.00	H
ATOM	5066	HH21	ARG	318	62.054	48.634	137.591	1.00	0.00	H
ATOM	5067	HH22	ARG	318	62.927	47.674	138.764	1.00	0.00	H
ATOM	5068	N	PRO	319	54.228	43.622	138.026	1.00	0.00	N

ATOM	5069	CA	PRO	319	53.445	43.372	139.247	1.00	0.00	C
ATOM	5070	C	PRO	319	54.162	42.481	140.269	1.00	0.00	C
ATOM	5071	O	PRO	319	53.933	42.610	141.475	1.00	0.00	O
ATOM	5072	CB	PRO	319	52.133	42.700	138.789	1.00	0.00	C
ATOM	5073	CG	PRO	319	52.032	43.039	137.304	1.00	0.00	C
ATOM	5074	CD	PRO	319	53.501	43.062	136.888	1.00	0.00	C
ATOM	5075	HA	PRO	319	53.278	44.318	139.761	1.00	0.00	H
ATOM	5076	HB2	PRO	319	52.180	41.621	138.936	1.00	0.00	H
ATOM	5077	HB3	PRO	319	51.281	43.104	139.336	1.00	0.00	H
ATOM	5078	HG2	PRO	319	51.561	44.010	137.150	1.00	0.00	H
ATOM	5079	HG3	PRO	319	51.477	42.275	136.759	1.00	0.00	H
ATOM	5080	HD2	PRO	319	53.636	43.688	136.006	1.00	0.00	H
ATOM	5081	HD3	PRO	319	53.851	42.052	136.674	1.00	0.00	H
ATOM	5082	N	LEU	320	55.040	41.584	139.803	1.00	0.00	N
ATOM	5083	CA	LEU	320	55.817	40.694	140.661	1.00	0.00	C

ATOM	5084	C	LEU	320	56.827	41.531	141.487	1.00	0.00	C
ATOM	5085	O	LEU	320	56.890	41.398	142.714	1.00	0.00	O
ATOM	5086	CB	LEU	320	56.441	39.598	139.754	1.00	0.00	C
ATOM	5087	CG	LEU	320	56.379	38.172	140.331	1.00	0.00	C
ATOM	5088	CD1	LEU	320	56.829	37.156	139.270	1.00	0.00	C
ATOM	5089	CD2	LEU	320	57.346	38.068	141.502	1.00	0.00	C
ATOM	5090	H	LEU	320	55.172	41.519	138.804	1.00	0.00	H
ATOM	5091	HA	LEU	320	55.210	40.177	141.405	1.00	0.00	H
ATOM	5092	HB2	LEU	320	55.910	39.602	138.802	1.00	0.00	H
ATOM	5093	HB3	LEU	320	57.488	39.851	139.587	1.00	0.00	H
ATOM	5094	HG	LEU	320	55.356	37.964	140.644	1.00	0.00	H
ATOM	5095	HD11	LEU	320	56.172	37.221	138.403	1.00	0.00	H
ATOM	5096	HD12	LEU	320	57.853	37.376	138.967	1.00	0.00	H
ATOM	5097	HD13	LEU	320	56.782	36.150	139.687	1.00	0.00	H
ATOM	5098	HD21	LEU	320	58.358	38.281	141.157	1.00	0.00	H
ATOM	5099	HD22	LEU	320	57.065	38.788	142.270	1.00	0.00	H

ATOM	5100	HD23	LEU	320	57.308	37.061	141.917	1.00	0.00	H
ATOM	5101	N	SER	321	57.408	42.561	140.858	1.00	0.00	N
ATOM	5102	CA	SER	321	58.134	43.660	141.509	1.00	0.00	C
ATOM	5103	C	SER	321	57.328	44.516	142.472	1.00	0.00	C
ATOM	5104	O	SER	321	57.850	44.816	143.548	1.00	0.00	O
ATOM	5105	CB	SER	321	58.847	44.559	140.501	1.00	0.00	C
ATOM	5106	OG	SER	321	60.111	44.045	140.107	1.00	0.00	O
ATOM	5107	H	SER	321	57.341	42.584	139.850	1.00	0.00	H
ATOM	5108	HA	SER	321	58.863	43.132	142.123	1.00	0.00	H
ATOM	5109	HB2	SER	321	58.995	45.540	140.952	1.00	0.00	H
ATOM	5110	HB3	SER	321	58.219	44.657	139.616	1.00	0.00	H
ATOM	5111	HG	SER	321	60.651	43.965	140.897	1.00	0.00	H
ATOM	5112	N	GLN	322	56.072	44.844	142.167	1.00	0.00	N
ATOM	5113	CA	GLN	322	55.216	45.533	143.135	1.00	0.00	C
ATOM	5114	C	GLN	322	55.059	44.720	144.424	1.00	0.00	C

ATOM	5115	O	GLN	322	55.262	45.255	145.509	1.00	0.00	O
ATOM	5116	CB	GLN	322	53.831	45.823	142.559	1.00	0.00	C
ATOM	5117	CG	GLN	322	53.856	46.818	141.393	1.00	0.00	C
ATOM	5118	CD	GLN	322	52.445	47.320	141.131	1.00	0.00	C
ATOM	5119	OE1	GLN	322	51.725	46.778	140.305	1.00	0.00	O
ATOM	5120	NE2	GLN	322	51.875	48.053	142.072	1.00	0.00	N
ATOM	5121	H	GLN	322	55.705	44.614	141.254	1.00	0.00	H
ATOM	5122	HA	GLN	322	55.710	46.477	143.364	1.00	0.00	H
ATOM	5123	HB2	GLN	322	53.400	44.886	142.205	1.00	0.00	H
ATOM	5124	HB3	GLN	322	53.206	46.234	143.352	1.00	0.00	H
ATOM	5125	HG2	GLN	322	54.238	46.323	140.500	1.00	0.00	H
ATOM	5126	HG3	GLN	322	54.501	47.660	141.646	1.00	0.00	H
ATOM	5127	HE21	GLN	322	52.444	48.513	142.768	1.00	0.00	H
ATOM	5128	HE22	GLN	322	50.870	48.153	142.095	1.00	0.00	H
ATOM	5129	N	SER	323	54.768	43.417	144.312	1.00	0.00	N
ATOM	5130	CA	SER	323	54.537	42.564	145.483	1.00	0.00	C

ATOM	5131	C	SER	323	55.784	42.431	146.373	1.00	0.00	C
ATOM	5132	O	SER	323	55.658	42.474	147.596	1.00	0.00	O
ATOM	5133	CB	SER	323	54.053	41.180	145.043	1.00	0.00	C
ATOM	5134	OG	SER	323	53.554	40.456	146.155	1.00	0.00	O
ATOM	5135	H	SER	323	54.706	43.008	143.391	1.00	0.00	H
ATOM	5136	HA	SER	323	53.766	43.048	146.082	1.00	0.00	H
ATOM	5137	HB2	SER	323	54.885	40.632	144.601	1.00	0.00	H
ATOM	5138	HB3	SER	323	53.260	41.295	144.304	1.00	0.00	H
ATOM	5139	HG	SER	323	54.269	40.369	146.789	1.00	0.00	H
ATOM	5140	N	LEU	324	56.987	42.331	145.791	1.00	0.00	N
ATOM	5141	CA	LEU	324	58.231	42.313	146.580	1.00	0.00	C
ATOM	5142	C	LEU	324	58.613	43.690	147.148	1.00	0.00	C
ATOM	5143	O	LEU	324	59.105	43.747	148.275	1.00	0.00	O
ATOM	5144	CB	LEU	324	59.393	41.735	145.753	1.00	0.00	C
ATOM	5145	CG	LEU	324	59.272	40.247	145.364	1.00	0.00	C

ATOM	5146	CD1	LEU	324	60.598	39.787	144.755	1.00	0.00	C
ATOM	5147	CD2	LEU	324	59.011	39.352	146.579	1.00	0.00	C
ATOM	5148	H	LEU	324	57.042	42.266	144.785	1.00	0.00	H
ATOM	5149	HA	LEU	324	58.038	41.666	147.436	1.00	0.00	H
ATOM	5150	HB2	LEU	324	59.469	42.315	144.833	1.00	0.00	H
ATOM	5151	HB3	LEU	324	60.307	41.854	146.334	1.00	0.00	H
ATOM	5152	HG	LEU	324	58.438	40.162	144.667	1.00	0.00	H
ATOM	5153	HD11	LEU	324	60.828	40.398	143.882	1.00	0.00	H
ATOM	5154	HD12	LEU	324	61.393	39.894	145.493	1.00	0.00	H
ATOM	5155	HD13	LEU	324	60.518	38.742	144.456	1.00	0.00	H
ATOM	5156	HD21	LEU	324	59.844	39.436	147.277	1.00	0.00	H
ATOM	5157	HD22	LEU	324	58.091	39.667	147.071	1.00	0.00	H
ATOM	5158	HD23	LEU	324	58.913	38.316	146.253	1.00	0.00	H
ATOM	5159	N	TYR	325	58.323	44.792	146.446	1.00	0.00	N
ATOM	5160	CA	TYR	325	58.513	46.135	147.001	1.00	0.00	C
ATOM	5161	C	TYR	325	57.600	46.469	148.188	1.00	0.00	C

ATOM	5162	O	TYR	325	58.070	46.929	149.229	1.00	0.00	O
ATOM	5163	CB	TYR	325	58.490	47.211	145.907	1.00	0.00	C
ATOM	5164	CG	TYR	325	58.485	48.623	146.468	1.00	0.00	C
ATOM	5165	CD1	TYR	325	59.712	49.280	146.688	1.00	0.00	C
ATOM	5166	CD2	TYR	325	57.275	49.249	146.830	1.00	0.00	C
ATOM	5167	CE1	TYR	325	59.731	50.565	147.272	1.00	0.00	C
ATOM	5168	CE2	TYR	325	57.288	50.537	147.396	1.00	0.00	C
ATOM	5169	CZ	TYR	325	58.519	51.194	147.622	1.00	0.00	C
ATOM	5170	OH	TYR	325	58.533	52.427	148.198	1.00	0.00	O
ATOM	5171	H	TYR	325	57.963	44.695	145.507	1.00	0.00	H
ATOM	5172	HA	TYR	325	59.514	46.132	147.431	1.00	0.00	H
ATOM	5173	HB2	TYR	325	59.373	47.089	145.280	1.00	0.00	H
ATOM	5174	HB3	TYR	325	57.593	47.074	145.302	1.00	0.00	H
ATOM	5175	HD1	TYR	325	60.639	48.800	146.410	1.00	0.00	H
ATOM	5176	HD2	TYR	325	56.336	48.739	146.673	1.00	0.00	H

ATOM	5177	HE1 TYR	325	60.672	51.065	147.450	1.00	0.00	H
ATOM	5178	HE2 TYR	325	56.359	51.023	147.657	1.00	0.00	H
ATOM	5179	HH TYR	325	57.669	52.781	148.421	1.00	0.00	H
ATOM	5180	N TRP	326	56.312	46.122	148.092	1.00	0.00	N
ATOM	5181	CA TRP	326	55.384	46.273	149.212	1.00	0.00	C
ATOM	5182	C TRP	326	55.655	45.307	150.368	1.00	0.00	C
ATOM	5183	O TRP	326	55.508	45.711	151.525	1.00	0.00	O
ATOM	5184	CB TRP	326	53.923	46.285	148.754	1.00	0.00	C
ATOM	5185	CG TRP	326	53.541	47.499	147.951	1.00	0.00	C
ATOM	5186	CD1 TRP	326	53.333	47.545	146.615	1.00	0.00	C
ATOM	5187	CD2 TRP	326	53.550	48.895	148.388	1.00	0.00	C
ATOM	5188	NE1 TRP	326	53.106	48.848	146.220	1.00	0.00	N
ATOM	5189	CE2 TRP	326	53.272	49.731	147.264	1.00	0.00	C
ATOM	5190	CE3 TRP	326	53.788	49.544	149.620	1.00	0.00	C
ATOM	5191	CZ2 TRP	326	53.223	51.128	147.355	1.00	0.00	C
ATOM	5192	CZ3 TRP	326	53.757	50.949	149.725	1.00	0.00	C

ATOM	5193	CH2	TRP	326	53.471	51.742	148.596	1.00	0.00	C
ATOM	5194	H	TRP	326	55.970	45.744	147.220	1.00	0.00	H
ATOM	5195	HA	TRP	326	55.578	47.260	149.633	1.00	0.00	H
ATOM	5196	HB2	TRP	326	53.749	45.401	148.141	1.00	0.00	H
ATOM	5197	HB3	TRP	326	53.287	46.245	149.638	1.00	0.00	H
ATOM	5198	HD1	TRP	326	53.343	46.690	145.956	1.00	0.00	H
ATOM	5199	HE1	TRP	326	52.850	49.120	145.282	1.00	0.00	H
ATOM	5200	HE3	TRP	326	53.998	48.952	150.499	1.00	0.00	H
ATOM	5201	HZ2	TRP	326	52.998	51.726	146.484	1.00	0.00	H
ATOM	5202	HZ3	TRP	326	53.954	51.421	150.676	1.00	0.00	H
ATOM	5203	HH2	TRP	326	53.442	52.818	148.683	1.00	0.00	H
ATOM	5204	N	LEU	327	56.203	44.112	150.094	1.00	0.00	N
ATOM	5205	CA	LEU	327	56.763	43.247	151.131	1.00	0.00	C
ATOM	5206	C	LEU	327	57.973	43.892	151.830	1.00	0.00	C
ATOM	5207	O	LEU	327	58.028	43.837	153.057	1.00	0.00	O

ATOM	5208	CB	LEU	327	57.106	41.872	150.530	1.00	0.00	C
ATOM	5209	CG	LEU	327	57.707	40.873	151.539	1.00	0.00	C
ATOM	5210	CD1	LEU	327	56.717	40.518	152.650	1.00	0.00	C
ATOM	5211	CD2	LEU	327	58.083	39.579	150.811	1.00	0.00	C
ATOM	5212	H	LEU	327	56.229	43.799	149.134	1.00	0.00	H
ATOM	5213	HA	LEU	327	56.011	43.106	151.907	1.00	0.00	H
ATOM	5214	HB2	LEU	327	56.192	41.439	150.124	1.00	0.00	H
ATOM	5215	HB3	LEU	327	57.827	42.021	149.726	1.00	0.00	H
ATOM	5216	HG	LEU	327	58.581	41.347	151.985	1.00	0.00	H
ATOM	5217	HD11	LEU	327	56.418	41.426	153.174	1.00	0.00	H
ATOM	5218	HD12	LEU	327	55.838	40.043	152.215	1.00	0.00	H
ATOM	5219	HD13	LEU	327	57.190	39.832	153.353	1.00	0.00	H
ATOM	5220	HD21	LEU	327	57.188	39.132	150.378	1.00	0.00	H
ATOM	5221	HD22	LEU	327	58.797	39.802	150.018	1.00	0.00	H
ATOM	5222	HD23	LEU	327	58.532	38.881	151.518	1.00	0.00	H
ATOM	5223	N	LEU	328	58.873	44.572	151.104	1.00	0.00	N

ATOM	5224	CA	LEU	328	59.985	45.312	151.716	1.00	0.00	C
ATOM	5225	C	LEU	328	59.494	46.477	152.591	1.00	0.00	C
ATOM	5226	O	LEU	328	60.016	46.697	153.682	1.00	0.00	O
ATOM	5227	CB	LEU	328	60.957	45.804	150.618	1.00	0.00	C
ATOM	5228	CG	LEU	328	62.307	46.307	151.174	1.00	0.00	C
ATOM	5229	CD1	LEU	328	63.217	45.132	151.570	1.00	0.00	C
ATOM	5230	CD2	LEU	328	63.025	47.149	150.104	1.00	0.00	C
ATOM	5231	H	LEU	328	58.783	44.575	150.098	1.00	0.00	H
ATOM	5232	HA	LEU	328	60.518	44.631	152.379	1.00	0.00	H
ATOM	5233	HB2	LEU	328	61.151	44.978	149.934	1.00	0.00	H
ATOM	5234	HB3	LEU	328	60.481	46.621	150.076	1.00	0.00	H
ATOM	5235	HG	LEU	328	62.103	46.909	152.059	1.00	0.00	H
ATOM	5236	HD11	LEU	328	62.717	44.523	152.323	1.00	0.00	H
ATOM	5237	HD12	LEU	328	63.427	44.523	150.691	1.00	0.00	H
ATOM	5238	HD13	LEU	328	64.152	45.518	151.977	1.00	0.00	H

ATOM	5239	HD21	LEU	328	63.221	46.532	149.227	1.00	0.00	H
ATOM	5240	HD22	LEU	328	62.394	47.992	149.821	1.00	0.00	H
ATOM	5241	HD23	LEU	328	63.968	47.519	150.506	1.00	0.00	H
ATOM	5242	N	ALA	329	58.448	47.192	152.163	1.00	0.00	N
ATOM	5243	CA	ALA	329	57.825	48.246	152.961	1.00	0.00	C
ATOM	5244	C	ALA	329	57.161	47.689	154.238	1.00	0.00	C
ATOM	5245	O	ALA	329	57.415	48.196	155.333	1.00	0.00	O
ATOM	5246	CB	ALA	329	56.840	49.011	152.066	1.00	0.00	C
ATOM	5247	H	ALA	329	58.072	46.995	151.247	1.00	0.00	H
ATOM	5248	HA	ALA	329	58.589	48.937	153.318	1.00	0.00	H
ATOM	5249	HB1	ALA	329	57.376	49.438	151.218	1.00	0.00	H
ATOM	5250	HB2	ALA	329	56.072	48.328	151.704	1.00	0.00	H
ATOM	5251	HB3	ALA	329	56.373	49.811	152.640	1.00	0.00	H
ATOM	5252	N	ALA	330	56.403	46.594	154.128	1.00	0.00	N
ATOM	5253	CA	ALA	330	55.796	45.907	155.269	1.00	0.00	C
ATOM	5254	C	ALA	330	56.846	45.316	156.229	1.00	0.00	C

ATOM	5255	O	ALA	330	56.707	45.453	157.443	1.00	0.00	O
ATOM	5256	CB	ALA	330	54.852	44.827	154.730	1.00	0.00	C
ATOM	5257	H	ALA	330	56.240	46.219	153.205	1.00	0.00	H
ATOM	5258	HA	ALA	330	55.235	46.630	155.862	1.00	0.00	H
ATOM	5259	HB1	ALA	330	54.089	45.290	154.104	1.00	0.00	H
ATOM	5260	HB2	ALA	330	55.421	44.109	154.139	1.00	0.00	H
ATOM	5261	HB3	ALA	330	54.374	44.313	155.564	1.00	0.00	H
ATOM	5262	N	ASP	331	57.932	44.753	155.702	1.00	0.00	N
ATOM	5263	CA	ASP	331	59.068	44.268	156.482	1.00	0.00	C
ATOM	5264	C	ASP	331	59.783	45.406	157.237	1.00	0.00	C
ATOM	5265	O	ASP	331	60.046	45.283	158.430	1.00	0.00	O
ATOM	5266	CB	ASP	331	60.013	43.536	155.526	1.00	0.00	C
ATOM	5267	CG	ASP	331	61.229	42.967	156.248	1.00	0.00	C
ATOM	5268	OD1	ASP	331	62.344	43.168	155.721	1.00	0.00	O
ATOM	5269	OD2	ASP	331	61.032	42.314	157.296	1.00	0.00	O1-

ATOM	5270	H	ASP	331	57.973	44.655	154.698	1.00	0.00	H
ATOM	5271	HA	ASP	331	58.717	43.584	157.255	1.00	0.00	H
ATOM	5272	HB2	ASP	331	60.353	44.236	154.763	1.00	0.00	H
ATOM	5273	HB3	ASP	331	59.470	42.718	155.053	1.00	0.00	H
ATOM	5274	N	LEU	332	59.931	46.592	156.635	1.00	0.00	N
ATOM	5275	CA	LEU	332	60.399	47.790	157.349	1.00	0.00	C
ATOM	5276	C	LEU	332	59.427	48.263	158.451	1.00	0.00	C
ATOM	5277	O	LEU	332	59.901	48.727	159.499	1.00	0.00	O
ATOM	5278	CB	LEU	332	60.696	48.910	156.334	1.00	0.00	C
ATOM	5279	CG	LEU	332	62.002	48.690	155.548	1.00	0.00	C
ATOM	5280	CD1	LEU	332	62.067	49.658	154.365	1.00	0.00	C
ATOM	5281	CD2	LEU	332	63.234	48.933	156.428	1.00	0.00	C
ATOM	5282	H	LEU	332	59.713	46.668	155.652	1.00	0.00	H
ATOM	5283	HA	LEU	332	61.317	47.524	157.872	1.00	0.00	H
ATOM	5284	HB2	LEU	332	59.870	48.962	155.625	1.00	0.00	H
ATOM	5285	HB3	LEU	332	60.772	49.854	156.873	1.00	0.00	H

ATOM	5286	HG	LEU	332	62.004	47.656	155.204	1.00	0.00	H
ATOM	5287	HD11	LEU	332	61.203	49.501	153.719	1.00	0.00	H
ATOM	5288	HD12	LEU	332	62.063	50.684	154.734	1.00	0.00	H
ATOM	5289	HD13	LEU	332	62.981	49.479	153.799	1.00	0.00	H
ATOM	5290	HD21	LEU	332	63.235	49.967	156.774	1.00	0.00	H
ATOM	5291	HD22	LEU	332	63.205	48.262	157.287	1.00	0.00	H
ATOM	5292	HD23	LEU	332	64.138	48.743	155.849	1.00	0.00	H
ATOM	5293	N	LEU	333	58.105	48.084	158.303	1.00	0.00	N
ATOM	5294	CA	LEU	333	57.161	48.301	159.411	1.00	0.00	C
ATOM	5295	C	LEU	333	57.386	47.286	160.541	1.00	0.00	C
ATOM	5296	O	LEU	333	57.500	47.688	161.698	1.00	0.00	O
ATOM	5297	CB	LEU	333	55.680	48.278	158.971	1.00	0.00	C
ATOM	5298	CG	LEU	333	55.244	49.244	157.851	1.00	0.00	C
ATOM	5299	CD1	LEU	333	53.705	49.312	157.842	1.00	0.00	C
ATOM	5300	CD2	LEU	333	55.794	50.667	158.045	1.00	0.00	C

ATOM	5301	H	LEU	333	57.748	47.792	157.405	1.00	0.00	H
ATOM	5302	HA	LEU	333	57.369	49.306	159.779	1.00	0.00	H
ATOM	5303	HB2	LEU	333	55.458	47.266	158.631	1.00	0.00	H
ATOM	5304	HB3	LEU	333	55.077	48.507	159.850	1.00	0.00	H
ATOM	5305	HG	LEU	333	55.642	48.863	156.911	1.00	0.00	H
ATOM	5306	HD11	LEU	333	53.298	48.314	157.680	1.00	0.00	H
ATOM	5307	HD12	LEU	333	53.353	49.697	158.799	1.00	0.00	H
ATOM	5308	HD13	LEU	333	53.375	49.973	157.041	1.00	0.00	H
ATOM	5309	HD21	LEU	333	55.414	51.079	158.980	1.00	0.00	H
ATOM	5310	HD22	LEU	333	56.883	50.634	158.079	1.00	0.00	H
ATOM	5311	HD23	LEU	333	55.475	51.296	157.214	1.00	0.00	H
ATOM	5312	N	ILE	334	57.563	46.000	160.206	1.00	0.00	N
ATOM	5313	CA	ILE	334	57.881	44.944	161.180	1.00	0.00	C
ATOM	5314	C	ILE	334	59.178	45.275	161.927	1.00	0.00	C
ATOM	5315	O	ILE	334	59.185	45.294	163.155	1.00	0.00	O
ATOM	5316	CB	ILE	334	57.928	43.548	160.501	1.00	0.00	C

ATOM	5317	CG1	ILE	334	56.510	43.140	160.039	1.00	0.00	C
ATOM	5318	CG2	ILE	334	58.516	42.479	161.445	1.00	0.00	C
ATOM	5319	CD1	ILE	334	56.504	41.959	159.060	1.00	0.00	C
ATOM	5320	H	ILE	334	57.473	45.742	159.234	1.00	0.00	H
ATOM	5321	HA	ILE	334	57.082	44.902	161.920	1.00	0.00	H
ATOM	5322	HB	ILE	334	58.583	43.615	159.633	1.00	0.00	H
ATOM	5323	HG12	ILE	334	55.927	42.864	160.917	1.00	0.00	H
ATOM	5324	HG13	ILE	334	56.046	43.997	159.550	1.00	0.00	H
ATOM	5325	HG21	ILE	334	59.520	42.775	161.748	1.00	0.00	H
ATOM	5326	HG22	ILE	334	57.883	42.386	162.327	1.00	0.00	H
ATOM	5327	HG23	ILE	334	58.560	41.521	160.927	1.00	0.00	H
ATOM	5328	HD11	ILE	334	57.066	42.226	158.165	1.00	0.00	H
ATOM	5329	HD12	ILE	334	56.965	41.092	159.534	1.00	0.00	H
ATOM	5330	HD13	ILE	334	55.477	41.720	158.786	1.00	0.00	H
ATOM	5331	N	LEU	335	60.240	45.638	161.205	1.00	0.00	N

ATOM	5332	CA	LEU	335	61.522	46.017	161.790	1.00	0.00	C
ATOM	5333	C	LEU	335	61.407	47.277	162.670	1.00	0.00	C
ATOM	5334	O	LEU	335	61.836	47.214	163.814	1.00	0.00	O
ATOM	5335	CB	LEU	335	62.575	46.153	160.676	1.00	0.00	C
ATOM	5336	CG	LEU	335	62.952	44.834	159.965	1.00	0.00	C
ATOM	5337	CD1	LEU	335	63.815	45.137	158.738	1.00	0.00	C
ATOM	5338	CD2	LEU	335	63.763	43.919	160.884	1.00	0.00	C
ATOM	5339	H	LEU	335	60.152	45.651	160.199	1.00	0.00	H
ATOM	5340	HA	LEU	335	61.850	45.228	162.466	1.00	0.00	H
ATOM	5341	HB2	LEU	335	62.186	46.842	159.926	1.00	0.00	H
ATOM	5342	HB3	LEU	335	63.481	46.570	161.117	1.00	0.00	H
ATOM	5343	HG	LEU	335	62.023	44.339	159.682	1.00	0.00	H
ATOM	5344	HD11	LEU	335	63.266	45.790	158.060	1.00	0.00	H
ATOM	5345	HD12	LEU	335	64.734	45.631	159.053	1.00	0.00	H
ATOM	5346	HD13	LEU	335	64.060	44.206	158.227	1.00	0.00	H
ATOM	5347	HD21	LEU	335	64.691	44.417	161.165	1.00	0.00	H

ATOM	5348	HD22	LEU	335	63.183	43.698	161.780	1.00	0.00	H
ATOM	5349	HD23	LEU	335	63.993	42.990	160.361	1.00	0.00	H
ATOM	5350	N	THR	336	60.760	48.375	162.241	1.00	0.00	N
ATOM	5351	CA	THR	336	60.603	49.542	163.140	1.00	0.00	C
ATOM	5352	C	THR	336	59.775	49.228	164.391	1.00	0.00	C
ATOM	5353	O	THR	336	60.161	49.653	165.482	1.00	0.00	O
ATOM	5354	CB	THR	336	60.033	50.810	162.476	1.00	0.00	C
ATOM	5355	OG1	THR	336	58.782	50.585	161.878	1.00	0.00	O
ATOM	5356	CG2	THR	336	60.947	51.403	161.410	1.00	0.00	C
ATOM	5357	H	THR	336	60.381	48.404	161.305	1.00	0.00	H
ATOM	5358	HA	THR	336	61.633	49.759	163.424	1.00	0.00	H
ATOM	5359	HB	THR	336	59.939	51.516	163.301	1.00	0.00	H
ATOM	5360	HG21	THR	336	61.930	51.596	161.840	1.00	0.00	H
ATOM	5361	HG22	THR	336	61.044	50.700	160.583	1.00	0.00	H
ATOM	5362	HG23	THR	336	60.521	52.337	161.045	1.00	0.00	H

ATOM	5363	HG1 THR	336	58.911	49.960	161.161	1.00	0.00	H
ATOM	5364	N TRP	337	58.742	48.384	164.281	1.00	0.00	N
ATOM	5365	CA TRP	337	58.002	47.876	165.438	1.00	0.00	C
ATOM	5366	C TRP	337	58.856	47.053	166.407	1.00	0.00	C
ATOM	5367	O TRP	337	58.978	47.436	167.567	1.00	0.00	O
ATOM	5368	CB TRP	337	56.724	47.156	164.984	1.00	0.00	C
ATOM	5369	CG TRP	337	56.085	46.234	165.983	1.00	0.00	C
ATOM	5370	CD1 TRP	337	55.709	46.553	167.244	1.00	0.00	C
ATOM	5371	CD2 TRP	337	55.789	44.811	165.836	1.00	0.00	C
ATOM	5372	NE1 TRP	337	55.194	45.440	167.875	1.00	0.00	N
ATOM	5373	CE2 TRP	337	55.181	44.343	167.039	1.00	0.00	C
ATOM	5374	CE3 TRP	337	55.942	43.881	164.785	1.00	0.00	C
ATOM	5375	CZ2 TRP	337	54.720	43.024	167.181	1.00	0.00	C
ATOM	5376	CZ3 TRP	337	55.477	42.559	164.916	1.00	0.00	C
ATOM	5377	CH2 TRP	337	54.870	42.126	166.108	1.00	0.00	C
ATOM	5378	H TRP	337	58.460	48.084	163.359	1.00	0.00	H

ATOM	5379	HA	TRP	337	57.700	48.739	166.031	1.00	0.00	H
ATOM	5380	HB2	TRP	337	55.991	47.918	164.720	1.00	0.00	H
ATOM	5381	HB3	TRP	337	56.971	46.567	164.101	1.00	0.00	H
ATOM	5382	HD1	TRP	337	55.799	47.533	167.689	1.00	0.00	H
ATOM	5383	HE1	TRP	337	54.867	45.430	168.831	1.00	0.00	H
ATOM	5384	HE3	TRP	337	56.422	44.188	163.868	1.00	0.00	H
ATOM	5385	HZ2	TRP	337	54.256	42.703	168.102	1.00	0.00	H
ATOM	5386	HZ3	TRP	337	55.588	41.870	164.092	1.00	0.00	H
ATOM	5387	HH2	TRP	337	54.520	41.108	166.200	1.00	0.00	H
ATOM	5388	N	ILE	338	59.558	46.023	165.924	1.00	0.00	N
ATOM	5389	CA	ILE	338	60.456	45.196	166.753	1.00	0.00	C
ATOM	5390	C	ILE	338	61.583	46.024	167.385	1.00	0.00	C
ATOM	5391	O	ILE	338	62.052	45.716	168.485	1.00	0.00	O
ATOM	5392	CB	ILE	338	61.012	44.030	165.903	1.00	0.00	C
ATOM	5393	CG1	ILE	338	59.927	43.018	165.467	1.00	0.00	C

ATOM	5394	CG2	ILE	338	62.133	43.257	166.639	1.00	0.00	C
ATOM	5395	CD1	ILE	338	59.038	42.502	166.602	1.00	0.00	C
ATOM	5396	H	ILE	338	59.469	45.800	164.943	1.00	0.00	H
ATOM	5397	HA	ILE	338	59.880	44.786	167.583	1.00	0.00	H
ATOM	5398	HB	ILE	338	61.416	44.510	165.011	1.00	0.00	H
ATOM	5399	HG12	ILE	338	59.288	43.503	164.729	1.00	0.00	H
ATOM	5400	HG13	ILE	338	60.425	42.163	165.010	1.00	0.00	H
ATOM	5401	HG21	ILE	338	62.922	43.951	166.930	1.00	0.00	H
ATOM	5402	HG22	ILE	338	61.722	42.780	167.529	1.00	0.00	H
ATOM	5403	HG23	ILE	338	62.545	42.496	165.976	1.00	0.00	H
ATOM	5404	HD11	ILE	338	59.653	41.988	167.340	1.00	0.00	H
ATOM	5405	HD12	ILE	338	58.529	43.342	167.075	1.00	0.00	H
ATOM	5406	HD13	ILE	338	58.299	41.809	166.199	1.00	0.00	H
ATOM	5407	N	GLY	339	62.055	47.080	166.719	1.00	0.00	N
ATOM	5408	CA	GLY	339	63.058	48.004	167.267	1.00	0.00	C
ATOM	5409	C	GLY	339	62.536	48.769	168.489	1.00	0.00	C

ATOM	5410	O	GLY	339	63.290	49.060	169.417	1.00	0.00	O
ATOM	5411	H	GLY	339	61.704	47.254	165.788	1.00	0.00	H
ATOM	5412	HA2	GLY	339	63.938	47.432	167.561	1.00	0.00	H
ATOM	5413	HA3	GLY	339	63.332	48.722	166.494	1.00	0.00	H
ATOM	5414	N	GLY	340	61.219	48.996	168.553	1.00	0.00	N
ATOM	5415	CA	GLY	340	60.517	49.590	169.693	1.00	0.00	C
ATOM	5416	C	GLY	340	60.185	48.646	170.846	1.00	0.00	C
ATOM	5417	O	GLY	340	59.686	49.133	171.869	1.00	0.00	O
ATOM	5418	H	GLY	340	60.664	48.737	167.750	1.00	0.00	H
ATOM	5419	HA2	GLY	340	61.142	50.391	170.088	1.00	0.00	H
ATOM	5420	HA3	GLY	340	59.580	50.008	169.325	1.00	0.00	H
ATOM	5421	N	GLN	341	60.445	47.335	170.717	1.00	0.00	N
ATOM	5422	CA	GLN	341	60.114	46.311	171.723	1.00	0.00	C
ATOM	5423	C	GLN	341	61.344	45.770	172.494	1.00	0.00	C
ATOM	5424	O	GLN	341	62.482	45.921	172.024	1.00	0.00	O

ATOM	5425	CB	GLN	341	59.356	45.144	171.053	1.00	0.00	C
ATOM	5426	CG	GLN	341	58.050	45.533	170.336	1.00	0.00	C
ATOM	5427	CD	GLN	341	56.985	46.224	171.202	1.00	0.00	C
ATOM	5428	OE1	GLN	341	56.081	46.880	170.705	1.00	0.00	O
ATOM	5429	NE2	GLN	341	56.916	45.969	172.494	1.00	0.00	N
ATOM	5430	H	GLN	341	60.900	47.029	169.869	1.00	0.00	H
ATOM	5431	HA	GLN	341	59.482	46.801	172.464	1.00	0.00	H
ATOM	5432	HB2	GLN	341	60.020	44.688	170.319	1.00	0.00	H
ATOM	5433	HB3	GLN	341	59.112	44.414	171.825	1.00	0.00	H
ATOM	5434	HG2	GLN	341	57.609	44.623	169.929	1.00	0.00	H
ATOM	5435	HG3	GLN	341	58.306	46.209	169.520	1.00	0.00	H
ATOM	5436	HE21	GLN	341	57.643	45.430	172.942	1.00	0.00	H
ATOM	5437	HE22	GLN	341	56.136	46.313	173.036	1.00	0.00	H
ATOM	5438	N	PRO	342	61.155	45.085	173.642	1.00	0.00	N
ATOM	5439	CA	PRO	342	62.228	44.373	174.345	1.00	0.00	C
ATOM	5440	C	PRO	342	62.745	43.131	173.598	1.00	0.00	C

ATOM	5441	O	PRO	342	61.976	42.421	172.944	1.00	0.00	O
ATOM	5442	CB	PRO	342	61.653	43.973	175.714	1.00	0.00	C
ATOM	5443	CG	PRO	342	60.451	44.900	175.894	1.00	0.00	C
ATOM	5444	CD	PRO	342	59.950	45.071	174.462	1.00	0.00	C
ATOM	5445	HA	PRO	342	63.095	45.029	174.429	1.00	0.00	H
ATOM	5446	HB2	PRO	342	61.341	42.929	175.713	1.00	0.00	H
ATOM	5447	HB3	PRO	342	62.387	44.132	176.504	1.00	0.00	H
ATOM	5448	HG2	PRO	342	60.751	45.856	176.323	1.00	0.00	H
ATOM	5449	HG3	PRO	342	59.690	44.441	176.526	1.00	0.00	H
ATOM	5450	HD2	PRO	342	59.403	46.008	174.356	1.00	0.00	H
ATOM	5451	HD3	PRO	342	59.304	44.240	174.180	1.00	0.00	H
ATOM	5452	N	VAL	343	64.022	42.799	173.793	1.00	0.00	N
ATOM	5453	CA	VAL	343	64.660	41.569	173.289	1.00	0.00	C
ATOM	5454	C	VAL	343	64.391	40.348	174.191	1.00	0.00	C
ATOM	5455	O	VAL	343	65.222	39.986	175.034	1.00	0.00	O

ATOM	5456	CB	VAL	343	66.166	41.773	172.976	1.00	0.00	C
ATOM	5457	CG1	VAL	343	66.694	40.657	172.063	1.00	0.00	C
ATOM	5458	CG2	VAL	343	66.464	43.128	172.298	1.00	0.00	C
ATOM	5459	H	VAL	343	64.595	43.438	174.326	1.00	0.00	H
ATOM	5460	HA	VAL	343	64.183	41.341	172.336	1.00	0.00	H
ATOM	5461	HB	VAL	343	66.670	41.751	173.942	1.00	0.00	H
ATOM	5462	HG11	VAL	343	66.515	39.689	172.531	1.00	0.00	H
ATOM	5463	HG12	VAL	343	66.178	40.698	171.104	1.00	0.00	H
ATOM	5464	HG13	VAL	343	67.764	40.792	171.906	1.00	0.00	H
ATOM	5465	HG21	VAL	343	65.967	43.167	171.329	1.00	0.00	H
ATOM	5466	HG22	VAL	343	66.096	43.938	172.928	1.00	0.00	H
ATOM	5467	HG23	VAL	343	67.540	43.236	172.159	1.00	0.00	H
ATOM	5468	N	SER	344	63.178	39.769	174.083	1.00	0.00	N
ATOM	5469	CA	SER	344	62.694	38.694	174.976	1.00	0.00	C
ATOM	5470	C	SER	344	61.984	37.563	174.206	1.00	0.00	C
ATOM	5471	O	SER	344	62.600	36.914	173.353	1.00	0.00	O

ATOM	5472	CB	SER	344	61.854	39.333	176.092	1.00	0.00	C
ATOM	5473	OG	SER	344	61.481	38.397	177.092	1.00	0.00	O
ATOM	5474	H	SER	344	62.563	40.089	173.348	1.00	0.00	H
ATOM	5475	HA	SER	344	63.538	38.186	175.443	1.00	0.00	H
ATOM	5476	HB2	SER	344	60.950	39.754	175.652	1.00	0.00	H
ATOM	5477	HB3	SER	344	62.437	40.128	176.557	1.00	0.00	H
ATOM	5478	HG	SER	344	60.970	37.705	176.666	1.00	0.00	H
ATOM	5479	N	TYR	345	60.713	37.271	174.501	1.00	0.00	N
ATOM	5480	CA	TYR	345	59.889	36.320	173.729	1.00	0.00	C
ATOM	5481	C	TYR	345	59.443	36.949	172.378	1.00	0.00	C
ATOM	5482	O	TYR	345	59.996	37.996	172.049	1.00	0.00	O
ATOM	5483	CB	TYR	345	58.796	35.756	174.656	1.00	0.00	C
ATOM	5484	CG	TYR	345	59.301	35.032	175.891	1.00	0.00	C
ATOM	5485	CD1	TYR	345	59.793	33.714	175.788	1.00	0.00	C
ATOM	5486	CD2	TYR	345	59.235	35.667	177.145	1.00	0.00	C

ATOM	5487	CE1	TYR	345	60.224	33.034	176.944	1.00	0.00	C
ATOM	5488	CE2	TYR	345	59.666	34.989	178.303	1.00	0.00	C
ATOM	5489	CZ	TYR	345	60.160	33.669	178.202	1.00	0.00	C
ATOM	5490	OH	TYR	345	60.581	33.006	179.310	1.00	0.00	O
ATOM	5491	H	TYR	345	60.292	37.727	175.298	1.00	0.00	H
ATOM	5492	HA	TYR	345	60.451	35.445	173.400	1.00	0.00	H
ATOM	5493	HB2	TYR	345	58.172	36.587	174.985	1.00	0.00	H
ATOM	5494	HB3	TYR	345	58.193	35.055	174.078	1.00	0.00	H
ATOM	5495	HD1	TYR	345	59.839	33.227	174.825	1.00	0.00	H
ATOM	5496	HD2	TYR	345	58.854	36.675	177.220	1.00	0.00	H
ATOM	5497	HE1	TYR	345	60.604	32.026	176.867	1.00	0.00	H
ATOM	5498	HE2	TYR	345	59.619	35.477	179.265	1.00	0.00	H
ATOM	5499	HH	TYR	345	60.512	33.501	180.130	1.00	0.00	H
ATOM	5500	N	PRO	346	58.570	36.315	171.551	1.00	0.00	N
ATOM	5501	CA	PRO	346	58.522	36.388	170.073	1.00	0.00	C
ATOM	5502	C	PRO	346	59.542	37.289	169.340	1.00	0.00	C

ATOM	5503	O	PRO	346	60.338	36.791	168.542	1.00	0.00	O
ATOM	5504	CB	PRO	346	57.079	36.766	169.696	1.00	0.00	C
ATOM	5505	CG	PRO	346	56.255	36.597	170.969	1.00	0.00	C
ATOM	5506	CD	PRO	346	57.214	35.966	171.982	1.00	0.00	C
ATOM	5507	HA	PRO	346	58.832	35.404	169.721	1.00	0.00	H
ATOM	5508	HB2	PRO	346	57.036	37.799	169.351	1.00	0.00	H
ATOM	5509	HB3	PRO	346	56.707	36.105	168.913	1.00	0.00	H
ATOM	5510	HG2	PRO	346	55.403	35.942	170.789	1.00	0.00	H
ATOM	5511	HG3	PRO	346	55.901	37.564	171.327	1.00	0.00	H
ATOM	5512	HD2	PRO	346	57.090	34.883	171.993	1.00	0.00	H
ATOM	5513	HD3	PRO	346	57.023	36.363	172.979	1.00	0.00	H
ATOM	5514	N	PHE	347	59.453	38.608	169.560	1.00	0.00	N
ATOM	5515	CA	PHE	347	60.224	39.724	169.007	1.00	0.00	C
ATOM	5516	C	PHE	347	61.659	39.393	168.562	1.00	0.00	C
ATOM	5517	O	PHE	347	62.042	39.769	167.452	1.00	0.00	O

ATOM	5518	CB	PHE	347	60.299	40.828	170.079	1.00	0.00	C
ATOM	5519	CG	PHE	347	58.970	41.332	170.626	1.00	0.00	C
ATOM	5520	CD1	PHE	347	57.866	41.570	169.783	1.00	0.00	C
ATOM	5521	CD2	PHE	347	58.838	41.559	172.012	1.00	0.00	C
ATOM	5522	CE1	PHE	347	56.653	42.050	170.316	1.00	0.00	C
ATOM	5523	CE2	PHE	347	57.628	42.043	172.543	1.00	0.00	C
ATOM	5524	CZ	PHE	347	56.538	42.295	171.694	1.00	0.00	C
ATOM	5525	H	PHE	347	58.734	38.878	170.217	1.00	0.00	H
ATOM	5526	HA	PHE	347	59.698	40.025	168.101	1.00	0.00	H
ATOM	5527	HB2	PHE	347	60.876	40.438	170.917	1.00	0.00	H
ATOM	5528	HB3	PHE	347	60.822	41.679	169.643	1.00	0.00	H
ATOM	5529	HD1	PHE	347	57.950	41.383	168.723	1.00	0.00	H
ATOM	5530	HD2	PHE	347	59.671	41.360	172.670	1.00	0.00	H
ATOM	5531	HE1	PHE	347	55.811	42.230	169.664	1.00	0.00	H
ATOM	5532	HE2	PHE	347	57.537	42.221	173.604	1.00	0.00	H
ATOM	5533	HZ	PHE	347	55.613	42.677	172.100	1.00	0.00	H

ATOM	5534	N	THR	348	62.438	38.661	169.368	1.00	0.00	N
ATOM	5535	CA	THR	348	63.814	38.263	169.025	1.00	0.00	C
ATOM	5536	C	THR	348	63.875	37.416	167.749	1.00	0.00	C
ATOM	5537	O	THR	348	64.663	37.719	166.846	1.00	0.00	O
ATOM	5538	CB	THR	348	64.464	37.498	170.193	1.00	0.00	C
ATOM	5539	OG1	THR	348	64.507	38.350	171.309	1.00	0.00	O
ATOM	5540	CG2	THR	348	65.905	37.049	169.928	1.00	0.00	C
ATOM	5541	H	THR	348	62.062	38.366	170.258	1.00	0.00	H
ATOM	5542	HA	THR	348	64.371	39.181	168.838	1.00	0.00	H
ATOM	5543	HB	THR	348	63.859	36.604	170.344	1.00	0.00	H
ATOM	5544	HG21	THR	348	65.932	36.420	169.038	1.00	0.00	H
ATOM	5545	HG22	THR	348	66.536	37.924	169.773	1.00	0.00	H
ATOM	5546	HG23	THR	348	66.273	36.484	170.784	1.00	0.00	H
ATOM	5547	HG1	THR	348	65.059	39.101	171.080	1.00	0.00	H
ATOM	5548	N	ILE	349	63.036	36.381	167.636	1.00	0.00	N

ATOM	5549	CA	ILE	349	63.063	35.434	166.508	1.00	0.00	C
ATOM	5550	C	ILE	349	62.407	36.033	165.263	1.00	0.00	C
ATOM	5551	O	ILE	349	62.968	35.936	164.171	1.00	0.00	O
ATOM	5552	CB	ILE	349	62.413	34.083	166.905	1.00	0.00	C
ATOM	5553	CG1	ILE	349	62.959	33.493	168.231	1.00	0.00	C
ATOM	5554	CG2	ILE	349	62.559	33.054	165.764	1.00	0.00	C
ATOM	5555	CD1	ILE	349	64.485	33.303	168.286	1.00	0.00	C
ATOM	5556	H	ILE	349	62.348	36.241	168.362	1.00	0.00	H
ATOM	5557	HA	ILE	349	64.106	35.237	166.258	1.00	0.00	H
ATOM	5558	HB	ILE	349	61.358	34.298	167.076	1.00	0.00	H
ATOM	5559	HG12	ILE	349	62.674	34.164	169.041	1.00	0.00	H
ATOM	5560	HG13	ILE	349	62.493	32.520	168.384	1.00	0.00	H
ATOM	5561	HG21	ILE	349	62.121	33.459	164.852	1.00	0.00	H
ATOM	5562	HG22	ILE	349	63.615	32.843	165.598	1.00	0.00	H
ATOM	5563	HG23	ILE	349	62.043	32.133	166.037	1.00	0.00	H
ATOM	5564	HD11	ILE	349	64.793	32.610	167.503	1.00	0.00	H

ATOM	5565	HD12	ILE	349	64.976	34.264	168.135	1.00	0.00	H
ATOM	5566	HD13	ILE	349	64.766	32.900	169.259	1.00	0.00	H
ATOM	5567	N	ILE	350	61.288	36.751	165.429	1.00	0.00	N
ATOM	5568	CA	ILE	350	60.646	37.473	164.323	1.00	0.00	C
ATOM	5569	C	ILE	350	61.559	38.587	163.784	1.00	0.00	C
ATOM	5570	O	ILE	350	61.713	38.706	162.572	1.00	0.00	O
ATOM	5571	CB	ILE	350	59.182	37.922	164.604	1.00	0.00	C
ATOM	5572	CG1	ILE	350	58.938	39.395	164.224	1.00	0.00	C
ATOM	5573	CG2	ILE	350	58.671	37.608	166.017	1.00	0.00	C
ATOM	5574	CD1	ILE	350	57.481	39.857	164.277	1.00	0.00	C
ATOM	5575	H	ILE	350	60.871	36.797	166.348	1.00	0.00	H
ATOM	5576	HA	ILE	350	60.521	36.751	163.516	1.00	0.00	H
ATOM	5577	HB	ILE	350	58.579	37.300	163.942	1.00	0.00	H
ATOM	5578	HG12	ILE	350	59.513	40.018	164.909	1.00	0.00	H
ATOM	5579	HG13	ILE	350	59.300	39.544	163.207	1.00	0.00	H

ATOM	5580	HG21	ILE	350	58.808	36.547	166.226	1.00	0.00	H
ATOM	5581	HG22	ILE	350	59.230	38.197	166.745	1.00	0.00	H
ATOM	5582	HG23	ILE	350	57.612	37.857	166.084	1.00	0.00	H
ATOM	5583	HD11	ILE	350	56.888	39.270	163.576	1.00	0.00	H
ATOM	5584	HD12	ILE	350	57.093	39.719	165.286	1.00	0.00	H
ATOM	5585	HD13	ILE	350	57.424	40.911	164.007	1.00	0.00	H
ATOM	5586	N	GLY	351	62.220	39.345	164.663	1.00	0.00	N
ATOM	5587	CA	GLY	351	63.209	40.350	164.288	1.00	0.00	C
ATOM	5588	C	GLY	351	64.383	39.736	163.527	1.00	0.00	C
ATOM	5589	O	GLY	351	64.790	40.284	162.493	1.00	0.00	O
ATOM	5590	H	GLY	351	62.024	39.215	165.645	1.00	0.00	H
ATOM	5591	HA2	GLY	351	62.730	41.097	163.655	1.00	0.00	H
ATOM	5592	HA3	GLY	351	63.586	40.828	165.192	1.00	0.00	H
ATOM	5593	N	GLN	352	64.840	38.552	163.948	1.00	0.00	N
ATOM	5594	CA	GLN	352	65.873	37.781	163.242	1.00	0.00	C
ATOM	5595	C	GLN	352	65.456	37.442	161.800	1.00	0.00	C

ATOM	5596	O	GLN	352	66.157	37.815	160.850	1.00	0.00	O
ATOM	5597	CB	GLN	352	66.162	36.502	164.054	1.00	0.00	C
ATOM	5598	CG	GLN	352	67.651	36.143	164.100	1.00	0.00	C
ATOM	5599	CD	GLN	352	67.978	35.029	165.095	1.00	0.00	C
ATOM	5600	OE1	GLN	352	68.987	34.352	164.992	1.00	0.00	O
ATOM	5601	NE2	GLN	352	67.220	34.847	166.169	1.00	0.00	N
ATOM	5602	H	GLN	352	64.454	38.166	164.798	1.00	0.00	H
ATOM	5603	HA	GLN	352	66.777	38.385	163.162	1.00	0.00	H
ATOM	5604	HB2	GLN	352	65.810	36.652	165.075	1.00	0.00	H
ATOM	5605	HB3	GLN	352	65.619	35.673	163.600	1.00	0.00	H
ATOM	5606	HG2	GLN	352	68.212	37.034	164.382	1.00	0.00	H
ATOM	5607	HG3	GLN	352	67.959	35.819	163.106	1.00	0.00	H
ATOM	5608	HE21	GLN	352	66.376	35.389	166.290	1.00	0.00	H
ATOM	5609	HE22	GLN	352	67.487	34.166	166.866	1.00	0.00	H
ATOM	5610	N	VAL	353	64.292	36.804	161.615	1.00	0.00	N

ATOM	5611	CA	VAL	353	63.807	36.421	160.279	1.00	0.00	C
ATOM	5612	C	VAL	353	63.396	37.600	159.393	1.00	0.00	C
ATOM	5613	O	VAL	353	63.670	37.565	158.195	1.00	0.00	O
ATOM	5614	CB	VAL	353	62.762	35.290	160.349	1.00	0.00	C
ATOM	5615	CG1	VAL	353	61.364	35.791	160.734	1.00	0.00	C
ATOM	5616	CG2	VAL	353	62.661	34.524	159.021	1.00	0.00	C
ATOM	5617	H	VAL	353	63.727	36.578	162.421	1.00	0.00	H
ATOM	5618	HA	VAL	353	64.669	36.007	159.756	1.00	0.00	H
ATOM	5619	HB	VAL	353	63.118	34.622	161.133	1.00	0.00	H
ATOM	5620	HG11	VAL	353	61.418	36.325	161.682	1.00	0.00	H
ATOM	5621	HG12	VAL	353	60.992	36.462	159.959	1.00	0.00	H
ATOM	5622	HG13	VAL	353	60.688	34.942	160.834	1.00	0.00	H
ATOM	5623	HG21	VAL	353	62.305	35.196	158.240	1.00	0.00	H
ATOM	5624	HG22	VAL	353	63.643	34.138	158.748	1.00	0.00	H
ATOM	5625	HG23	VAL	353	61.963	33.694	159.132	1.00	0.00	H
ATOM	5626	N	ALA	354	62.913	38.697	159.982	1.00	0.00	N

ATOM	5627	CA	ALA	354	62.700	39.969	159.291	1.00	0.00	C
ATOM	5628	C	ALA	354	64.023	40.595	158.813	1.00	0.00	C
ATOM	5629	O	ALA	354	64.141	41.001	157.662	1.00	0.00	O
ATOM	5630	CB	ALA	354	61.921	40.896	160.230	1.00	0.00	C
ATOM	5631	H	ALA	354	62.681	38.645	160.964	1.00	0.00	H
ATOM	5632	HA	ALA	354	62.119	39.803	158.384	1.00	0.00	H
ATOM	5633	HB1	ALA	354	60.968	40.435	160.488	1.00	0.00	H
ATOM	5634	HB2	ALA	354	62.500	41.064	161.138	1.00	0.00	H
ATOM	5635	HB3	ALA	354	61.741	41.849	159.733	1.00	0.00	H
ATOM	5636	N	SER	355	65.095	40.554	159.611	1.00	0.00	N
ATOM	5637	CA	SER	355	66.408	41.050	159.165	1.00	0.00	C
ATOM	5638	C	SER	355	67.054	40.197	158.072	1.00	0.00	C
ATOM	5639	O	SER	355	67.706	40.755	157.183	1.00	0.00	O
ATOM	5640	CB	SER	355	67.371	41.181	160.343	1.00	0.00	C
ATOM	5641	OG	SER	355	66.817	42.104	161.266	1.00	0.00	O

ATOM	5642	H	SER	355	65.002	40.174	160.542	1.00	0.00	H
ATOM	5643	HA	SER	355	66.212	42.030	158.729	1.00	0.00	H
ATOM	5644	HB2	SER	355	68.337	41.545	159.992	1.00	0.00	H
ATOM	5645	HB3	SER	355	67.501	40.211	160.823	1.00	0.00	H
ATOM	5646	HG	SER	355	66.717	42.944	160.812	1.00	0.00	H
ATOM	5647	N	VAL	356	66.837	38.875	158.078	1.00	0.00	N
ATOM	5648	CA	VAL	356	67.188	38.020	156.932	1.00	0.00	C
ATOM	5649	C	VAL	356	66.336	38.409	155.721	1.00	0.00	C
ATOM	5650	O	VAL	356	66.905	38.685	154.667	1.00	0.00	O
ATOM	5651	CB	VAL	356	67.046	36.516	157.256	1.00	0.00	C
ATOM	5652	CG1	VAL	356	67.400	35.638	156.040	1.00	0.00	C
ATOM	5653	CG2	VAL	356	67.973	36.095	158.410	1.00	0.00	C
ATOM	5654	H	VAL	356	66.419	38.452	158.894	1.00	0.00	H
ATOM	5655	HA	VAL	356	68.240	38.184	156.698	1.00	0.00	H
ATOM	5656	HB	VAL	356	66.003	36.369	157.537	1.00	0.00	H
ATOM	5657	HG11	VAL	356	66.763	35.909	155.198	1.00	0.00	H

ATOM	5658	HG12 VAL	356	68.444	35.795	155.770	1.00	0.00	H
ATOM	5659	HG13 VAL	356	67.243	34.589	156.291	1.00	0.00	H
ATOM	5660	HG21 VAL	356	69.011	36.247	158.116	1.00	0.00	H
ATOM	5661	HG22 VAL	356	67.753	36.698	159.291	1.00	0.00	H
ATOM	5662	HG23 VAL	356	67.811	35.042	158.641	1.00	0.00	H
ATOM	5663	N LEU	357	65.012	38.544	155.885	1.00	0.00	N
ATOM	5664	CA LEU	357	64.080	38.891	154.815	1.00	0.00	C
ATOM	5665	C LEU	357	64.462	40.205	154.127	1.00	0.00	C
ATOM	5666	O LEU	357	64.666	40.178	152.919	1.00	0.00	O
ATOM	5667	CB LEU	357	62.638	38.926	155.351	1.00	0.00	C
ATOM	5668	CG LEU	357	61.586	39.346	154.301	1.00	0.00	C
ATOM	5669	CD1 LEU	357	61.505	38.346	153.142	1.00	0.00	C
ATOM	5670	CD2 LEU	357	60.210	39.430	154.958	1.00	0.00	C
ATOM	5671	H LEU	357	64.634	38.396	156.810	1.00	0.00	H
ATOM	5672	HA LEU	357	64.140	38.115	154.052	1.00	0.00	H

ATOM	5673	HB2 LEU	357	62.383	37.930	155.712	1.00	0.00	H
ATOM	5674	HB3 LEU	357	62.597	39.634	156.179	1.00	0.00	H
ATOM	5675	HG LEU	357	61.890	40.315	153.906	1.00	0.00	H
ATOM	5676	HD11 LEU	357	62.482	38.262	152.666	1.00	0.00	H
ATOM	5677	HD12 LEU	357	61.201	37.371	153.524	1.00	0.00	H
ATOM	5678	HD13 LEU	357	60.774	38.694	152.412	1.00	0.00	H
ATOM	5679	HD21 LEU	357	59.931	38.449	155.343	1.00	0.00	H
ATOM	5680	HD22 LEU	357	60.242	40.147	155.778	1.00	0.00	H
ATOM	5681	HD23 LEU	357	59.475	39.754	154.221	1.00	0.00	H
ATOM	5682	N TYR	358	64.735	41.276	154.874	1.00	0.00	N
ATOM	5683	CA TYR	358	65.189	42.560	154.341	1.00	0.00	C
ATOM	5684	C TYR	358	66.334	42.440	153.327	1.00	0.00	C
ATOM	5685	O TYR	358	66.260	42.944	152.202	1.00	0.00	O
ATOM	5686	CB TYR	358	65.588	43.472	155.510	1.00	0.00	C
ATOM	5687	CG TYR	358	66.135	44.817	155.080	1.00	0.00	C
ATOM	5688	CD1 TYR	358	65.232	45.817	154.675	1.00	0.00	C

ATOM	5689	CD2 TYR	358	67.520	45.069	155.058	1.00	0.00	C
ATOM	5690	CE1 TYR	358	65.708	47.075	154.253	1.00	0.00	C
ATOM	5691	CE2 TYR	358	68.000	46.325	154.641	1.00	0.00	C
ATOM	5692	CZ TYR	358	67.095	47.337	154.249	1.00	0.00	C
ATOM	5693	OH TYR	358	67.551	48.553	153.852	1.00	0.00	O
ATOM	5694	H TYR	358	64.621	41.195	155.874	1.00	0.00	H
ATOM	5695	HA TYR	358	64.357	42.993	153.785	1.00	0.00	H
ATOM	5696	HB2 TYR	358	64.707	43.642	156.129	1.00	0.00	H
ATOM	5697	HB3 TYR	358	66.352	42.963	156.097	1.00	0.00	H
ATOM	5698	HD1 TYR	358	64.170	45.620	154.687	1.00	0.00	H
ATOM	5699	HD2 TYR	358	68.214	44.299	155.361	1.00	0.00	H
ATOM	5700	HE1 TYR	358	65.013	47.837	153.933	1.00	0.00	H
ATOM	5701	HE2 TYR	358	69.063	46.516	154.621	1.00	0.00	H
ATOM	5702	HH TYR	358	68.506	48.652	153.864	1.00	0.00	H
ATOM	5703	N PHE	359	67.349	41.647	153.686	1.00	0.00	N

ATOM	5704	CA	PHE	359	68.483	41.333	152.821	1.00	0.00	C
ATOM	5705	C	PHE	359	68.205	40.345	151.691	1.00	0.00	C
ATOM	5706	O	PHE	359	68.584	40.602	150.543	1.00	0.00	O
ATOM	5707	CB	PHE	359	69.710	40.949	153.660	1.00	0.00	C
ATOM	5708	CG	PHE	359	70.329	42.098	154.426	1.00	0.00	C
ATOM	5709	CD1	PHE	359	70.821	43.228	153.740	1.00	0.00	C
ATOM	5710	CD2	PHE	359	70.413	42.046	155.833	1.00	0.00	C
ATOM	5711	CE1	PHE	359	71.378	44.300	154.458	1.00	0.00	C
ATOM	5712	CE2	PHE	359	70.990	43.109	156.550	1.00	0.00	C
ATOM	5713	CZ	PHE	359	71.477	44.230	155.861	1.00	0.00	C
ATOM	5714	H	PHE	359	67.330	41.241	154.611	1.00	0.00	H
ATOM	5715	HA	PHE	359	68.699	42.256	152.282	1.00	0.00	H
ATOM	5716	HB2	PHE	359	69.407	40.185	154.377	1.00	0.00	H
ATOM	5717	HB3	PHE	359	70.466	40.539	152.990	1.00	0.00	H
ATOM	5718	HD1	PHE	359	70.770	43.269	152.662	1.00	0.00	H
ATOM	5719	HD2	PHE	359	70.032	41.185	156.362	1.00	0.00	H

ATOM	5720	HE1 PHE	359	71.730	45.177	153.934	1.00	0.00	H
ATOM	5721	HE2 PHE	359	71.058	43.063	157.627	1.00	0.00	H
ATOM	5722	HZ PHE	359	71.930	45.043	156.409	1.00	0.00	H
ATOM	5723	N THR	360	67.467	39.265	151.962	1.00	0.00	N
ATOM	5724	CA THR	360	67.044	38.279	150.956	1.00	0.00	C
ATOM	5725	C THR	360	66.154	38.916	149.882	1.00	0.00	C
ATOM	5726	O THR	360	66.323	38.627	148.698	1.00	0.00	O
ATOM	5727	CB THR	360	66.302	37.117	151.645	1.00	0.00	C
ATOM	5728	OG1 THR	360	67.158	36.469	152.555	1.00	0.00	O
ATOM	5729	CG2 THR	360	65.827	36.033	150.679	1.00	0.00	C
ATOM	5730	H THR	360	67.181	39.116	152.919	1.00	0.00	H
ATOM	5731	HA THR	360	67.936	37.897	150.460	1.00	0.00	H
ATOM	5732	HB THR	360	65.439	37.578	152.125	1.00	0.00	H
ATOM	5733	HG21 THR	360	65.184	36.479	149.920	1.00	0.00	H
ATOM	5734	HG22 THR	360	66.690	35.571	150.199	1.00	0.00	H

ATOM	5735	HG23	THR	360	65.268	35.276	151.229	1.00	0.00	H
ATOM	5736	HG1	THR	360	67.885	36.094	152.053	1.00	0.00	H
ATOM	5737	N	THR	361	65.279	39.846	150.274	1.00	0.00	N
ATOM	5738	CA	THR	361	64.414	40.635	149.396	1.00	0.00	C
ATOM	5739	C	THR	361	65.248	41.519	148.477	1.00	0.00	C
ATOM	5740	O	THR	361	65.198	41.307	147.269	1.00	0.00	O
ATOM	5741	CB	THR	361	63.371	41.438	150.187	1.00	0.00	C
ATOM	5742	OG1	THR	361	62.532	40.562	150.903	1.00	0.00	O
ATOM	5743	CG2	THR	361	62.420	42.221	149.287	1.00	0.00	C
ATOM	5744	H	THR	361	65.208	40.020	151.266	1.00	0.00	H
ATOM	5745	HA	THR	361	63.851	39.944	148.769	1.00	0.00	H
ATOM	5746	HB	THR	361	63.946	42.111	150.823	1.00	0.00	H
ATOM	5747	HG21	THR	361	62.994	42.897	148.653	1.00	0.00	H
ATOM	5748	HG22	THR	361	61.857	41.527	148.662	1.00	0.00	H
ATOM	5749	HG23	THR	361	61.730	42.798	149.902	1.00	0.00	H
ATOM	5750	HG1	THR	361	62.071	40.014	150.264	1.00	0.00	H

ATOM	5751	N	ILE	362	66.075	42.431	149.006	1.00	0.00	N
ATOM	5752	CA	ILE	362	66.851	43.354	148.155	1.00	0.00	C
ATOM	5753	C	ILE	362	67.921	42.626	147.323	1.00	0.00	C
ATOM	5754	O	ILE	362	68.096	42.926	146.146	1.00	0.00	O
ATOM	5755	CB	ILE	362	67.493	44.487	148.994	1.00	0.00	C
ATOM	5756	CG1	ILE	362	66.432	45.333	149.734	1.00	0.00	C
ATOM	5757	CG2	ILE	362	68.342	45.421	148.097	1.00	0.00	C
ATOM	5758	CD1	ILE	362	67.012	46.172	150.886	1.00	0.00	C
ATOM	5759	H	ILE	362	66.169	42.488	150.010	1.00	0.00	H
ATOM	5760	HA	ILE	362	66.143	43.799	147.455	1.00	0.00	H
ATOM	5761	HB	ILE	362	68.130	44.004	149.735	1.00	0.00	H
ATOM	5762	HG12	ILE	362	65.966	46.008	149.016	1.00	0.00	H
ATOM	5763	HG13	ILE	362	65.678	44.660	150.142	1.00	0.00	H
ATOM	5764	HG21	ILE	362	69.107	44.837	147.586	1.00	0.00	H
ATOM	5765	HG22	ILE	362	67.698	45.900	147.360	1.00	0.00	H

ATOM	5766	HG23	ILE	362	68.818	46.183	148.714	1.00	0.00	H
ATOM	5767	HD11	ILE	362	67.464	45.511	151.625	1.00	0.00	H
ATOM	5768	HD12	ILE	362	67.769	46.851	150.495	1.00	0.00	H
ATOM	5769	HD13	ILE	362	66.214	46.748	151.354	1.00	0.00	H
ATOM	5770	N	LEU	363	68.681	41.713	147.940	1.00	0.00	N
ATOM	5771	CA	LEU	363	69.931	41.176	147.389	1.00	0.00	C
ATOM	5772	C	LEU	363	69.746	39.976	146.443	1.00	0.00	C
ATOM	5773	O	LEU	363	70.644	39.688	145.658	1.00	0.00	O
ATOM	5774	CB	LEU	363	70.856	40.832	148.578	1.00	0.00	C
ATOM	5775	CG	LEU	363	72.369	40.837	148.267	1.00	0.00	C
ATOM	5776	CD1	LEU	363	72.892	42.269	148.102	1.00	0.00	C
ATOM	5777	CD2	LEU	363	73.133	40.197	149.428	1.00	0.00	C
ATOM	5778	H	LEU	363	68.375	41.373	148.840	1.00	0.00	H
ATOM	5779	HA	LEU	363	70.379	41.940	146.753	1.00	0.00	H
ATOM	5780	HB2	LEU	363	70.673	41.561	149.368	1.00	0.00	H
ATOM	5781	HB3	LEU	363	70.590	39.837	148.934	1.00	0.00	H

ATOM	5782	HG	LEU	363	72.520	40.281	147.342	1.00	0.00	H
ATOM	5783	HD11	LEU	363	72.353	42.762	147.293	1.00	0.00	H
ATOM	5784	HD12	LEU	363	72.739	42.821	149.029	1.00	0.00	H
ATOM	5785	HD13	LEU	363	73.956	42.242	147.867	1.00	0.00	H
ATOM	5786	HD21	LEU	363	72.963	40.774	150.337	1.00	0.00	H
ATOM	5787	HD22	LEU	363	72.782	39.176	149.575	1.00	0.00	H
ATOM	5788	HD23	LEU	363	74.199	40.185	149.199	1.00	0.00	H
ATOM	5789	N	ILE	364	68.612	39.264	146.536	1.00	0.00	N
ATOM	5790	CA	ILE	364	68.352	38.023	145.777	1.00	0.00	C
ATOM	5791	C	ILE	364	66.983	38.075	145.091	1.00	0.00	C
ATOM	5792	O	ILE	364	66.911	38.076	143.863	1.00	0.00	O
ATOM	5793	CB	ILE	364	68.501	36.765	146.675	1.00	0.00	C
ATOM	5794	CG1	ILE	364	69.880	36.700	147.378	1.00	0.00	C
ATOM	5795	CG2	ILE	364	68.261	35.477	145.855	1.00	0.00	C
ATOM	5796	CD1	ILE	364	69.999	35.597	148.440	1.00	0.00	C

ATOM	5797	H	ILE	364	67.893	39.596	147.163	1.00	0.00	H
ATOM	5798	HA	ILE	364	69.107	37.946	144.995	1.00	0.00	H
ATOM	5799	HB	ILE	364	67.742	36.842	147.453	1.00	0.00	H
ATOM	5800	HG12	ILE	364	70.642	36.526	146.618	1.00	0.00	H
ATOM	5801	HG13	ILE	364	70.062	37.660	147.861	1.00	0.00	H
ATOM	5802	HG21	ILE	364	67.272	35.516	145.398	1.00	0.00	H
ATOM	5803	HG22	ILE	364	69.019	35.396	145.075	1.00	0.00	H
ATOM	5804	HG23	ILE	364	68.323	34.610	146.513	1.00	0.00	H
ATOM	5805	HD11	ILE	364	69.261	35.767	149.224	1.00	0.00	H
ATOM	5806	HD12	ILE	364	69.820	34.626	147.977	1.00	0.00	H
ATOM	5807	HD13	ILE	364	71.000	35.615	148.872	1.00	0.00	H
ATOM	5808	N	LEU	365	65.900	38.182	145.871	1.00	0.00	N
ATOM	5809	CA	LEU	365	64.528	38.046	145.377	1.00	0.00	C
ATOM	5810	C	LEU	365	64.146	39.163	144.399	1.00	0.00	C
ATOM	5811	O	LEU	365	63.693	38.844	143.300	1.00	0.00	O
ATOM	5812	CB	LEU	365	63.571	37.978	146.580	1.00	0.00	C

ATOM	5813	CG	LEU	365	63.115	36.564	146.981	1.00	0.00	C
ATOM	5814	CD1	LEU	365	64.284	35.608	147.233	1.00	0.00	C
ATOM	5815	CD2	LEU	365	62.281	36.676	148.262	1.00	0.00	C
ATOM	5816	H	LEU	365	66.037	38.367	146.854	1.00	0.00	H
ATOM	5817	HA	LEU	365	64.450	37.122	144.805	1.00	0.00	H
ATOM	5818	HB2	LEU	365	64.076	38.424	147.437	1.00	0.00	H
ATOM	5819	HB3	LEU	365	62.683	38.561	146.337	1.00	0.00	H
ATOM	5820	HG	LEU	365	62.538	36.153	146.153	1.00	0.00	H
ATOM	5821	HD11	LEU	365	64.897	35.539	146.334	1.00	0.00	H
ATOM	5822	HD12	LEU	365	64.890	35.984	148.058	1.00	0.00	H
ATOM	5823	HD13	LEU	365	63.898	34.621	147.487	1.00	0.00	H
ATOM	5824	HD21	LEU	365	62.896	37.090	149.061	1.00	0.00	H
ATOM	5825	HD22	LEU	365	61.428	37.330	148.084	1.00	0.00	H
ATOM	5826	HD23	LEU	365	61.926	35.687	148.552	1.00	0.00	H
ATOM	5827	N	MET	366	64.336	40.443	144.748	1.00	0.00	N

ATOM	5828	CA	MET	366	63.981	41.589	143.887	1.00	0.00	C
ATOM	5829	C	MET	366	64.712	41.617	142.526	1.00	0.00	C
ATOM	5830	O	MET	366	64.073	41.942	141.524	1.00	0.00	O
ATOM	5831	CB	MET	366	64.098	42.933	144.629	1.00	0.00	C
ATOM	5832	CG	MET	366	62.976	43.090	145.668	1.00	0.00	C
ATOM	5833	SD	MET	366	62.916	44.712	146.480	1.00	0.00	S
ATOM	5834	CE	MET	366	62.039	45.670	145.218	1.00	0.00	C
ATOM	5835	H	MET	366	64.745	40.635	145.651	1.00	0.00	H
ATOM	5836	HA	MET	366	62.930	41.436	143.642	1.00	0.00	H
ATOM	5837	HB2	MET	366	64.030	43.746	143.906	1.00	0.00	H
ATOM	5838	HB3	MET	366	65.062	42.977	145.136	1.00	0.00	H
ATOM	5839	HG2	MET	366	63.117	42.330	146.437	1.00	0.00	H
ATOM	5840	HG3	MET	366	62.023	42.926	145.166	1.00	0.00	H
ATOM	5841	HE1	MET	366	62.613	45.661	144.291	1.00	0.00	H
ATOM	5842	HE2	MET	366	61.058	45.228	145.042	1.00	0.00	H
ATOM	5843	HE3	MET	366	61.918	46.698	145.561	1.00	0.00	H

ATOM	5844	N	PRO	367	65.991	41.185	142.444	1.00	0.00	N
ATOM	5845	CA	PRO	367	66.676	40.849	141.188	1.00	0.00	C
ATOM	5846	C	PRO	367	66.088	39.639	140.448	1.00	0.00	C
ATOM	5847	O	PRO	367	65.841	39.733	139.244	1.00	0.00	O
ATOM	5848	CB	PRO	367	68.143	40.595	141.563	1.00	0.00	C
ATOM	5849	CG	PRO	367	68.326	41.447	142.811	1.00	0.00	C
ATOM	5850	CD	PRO	367	66.977	41.347	143.508	1.00	0.00	C
ATOM	5851	HA	PRO	367	66.555	41.674	140.486	1.00	0.00	H
ATOM	5852	HB2	PRO	367	68.316	39.541	141.779	1.00	0.00	H
ATOM	5853	HB3	PRO	367	68.813	40.917	140.766	1.00	0.00	H
ATOM	5854	HG2	PRO	367	68.553	42.480	142.548	1.00	0.00	H
ATOM	5855	HG3	PRO	367	69.121	41.049	143.442	1.00	0.00	H
ATOM	5856	HD2	PRO	367	66.776	42.254	144.077	1.00	0.00	H
ATOM	5857	HD3	PRO	367	66.958	40.487	144.177	1.00	0.00	H
ATOM	5858	N	THR	368	65.840	38.516	141.134	1.00	0.00	N

ATOM	5859	CA	THR	368	65.320	37.278	140.514	1.00	0.00	C
ATOM	5860	C	THR	368	63.947	37.478	139.864	1.00	0.00	C
ATOM	5861	O	THR	368	63.735	37.004	138.747	1.00	0.00	O
ATOM	5862	CB	THR	368	65.241	36.127	141.541	1.00	0.00	C
ATOM	5863	OG1	THR	368	66.530	35.796	141.991	1.00	0.00	O
ATOM	5864	CG2	THR	368	64.660	34.828	140.985	1.00	0.00	C
ATOM	5865	H	THR	368	66.018	38.514	142.128	1.00	0.00	H
ATOM	5866	HA	THR	368	66.029	37.013	139.729	1.00	0.00	H
ATOM	5867	HB	THR	368	64.588	36.505	142.327	1.00	0.00	H
ATOM	5868	HG21	THR	368	63.668	35.020	140.576	1.00	0.00	H
ATOM	5869	HG22	THR	368	65.311	34.447	140.198	1.00	0.00	H
ATOM	5870	HG23	THR	368	64.587	34.091	141.785	1.00	0.00	H
ATOM	5871	HG1	THR	368	67.028	35.475	141.235	1.00	0.00	H
ATOM	5872	N	ILE	369	63.053	38.249	140.490	1.00	0.00	N
ATOM	5873	CA	ILE	369	61.742	38.578	139.911	1.00	0.00	C
ATOM	5874	C	ILE	369	61.872	39.303	138.568	1.00	0.00	C

ATOM	5875	O	ILE	369	61.165	38.951	137.628	1.00	0.00	O
ATOM	5876	CB	ILE	369	60.878	39.415	140.870	1.00	0.00	C
ATOM	5877	CG1	ILE	369	61.568	40.693	141.359	1.00	0.00	C
ATOM	5878	CG2	ILE	369	60.495	38.576	142.082	1.00	0.00	C
ATOM	5879	CD1	ILE	369	60.652	41.732	142.026	1.00	0.00	C
ATOM	5880	H	ILE	369	63.288	38.621	141.399	1.00	0.00	H
ATOM	5881	HA	ILE	369	61.243	37.624	139.742	1.00	0.00	H
ATOM	5882	HB	ILE	369	59.998	39.717	140.301	1.00	0.00	H
ATOM	5883	HG12	ILE	369	62.331	40.406	142.082	1.00	0.00	H
ATOM	5884	HG13	ILE	369	62.042	41.167	140.500	1.00	0.00	H
ATOM	5885	HG21	ILE	369	59.972	37.679	141.752	1.00	0.00	H
ATOM	5886	HG22	ILE	369	61.396	38.292	142.626	1.00	0.00	H
ATOM	5887	HG23	ILE	369	59.844	39.157	142.735	1.00	0.00	H
ATOM	5888	HD11	ILE	369	59.897	42.062	141.313	1.00	0.00	H
ATOM	5889	HD12	ILE	369	60.163	41.283	142.891	1.00	0.00	H

ATOM	5890	HD13	ILE	369	61.246	42.587	142.347	1.00	0.00	H
ATOM	5891	N	SER	370	62.842	40.208	138.412	1.00	0.00	N
ATOM	5892	CA	SER	370	63.027	40.960	137.170	1.00	0.00	C
ATOM	5893	C	SER	370	63.524	40.094	136.016	1.00	0.00	C
ATOM	5894	O	SER	370	63.132	40.307	134.870	1.00	0.00	O
ATOM	5895	CB	SER	370	63.998	42.104	137.415	1.00	0.00	C
ATOM	5896	OG	SER	370	63.409	43.075	138.250	1.00	0.00	O
ATOM	5897	H	SER	370	63.473	40.380	139.182	1.00	0.00	H
ATOM	5898	HA	SER	370	62.050	41.343	136.875	1.00	0.00	H
ATOM	5899	HB2	SER	370	64.262	42.562	136.462	1.00	0.00	H
ATOM	5900	HB3	SER	370	64.897	41.716	137.893	1.00	0.00	H
ATOM	5901	HG	SER	370	62.622	43.400	137.807	1.00	0.00	H
ATOM	5902	N	LEU	371	64.332	39.069	136.307	1.00	0.00	N
ATOM	5903	CA	LEU	371	64.739	38.057	135.322	1.00	0.00	C
ATOM	5904	C	LEU	371	63.547	37.192	134.870	1.00	0.00	C
ATOM	5905	O	LEU	371	63.456	36.837	133.695	1.00	0.00	O

ATOM	5906	CB	LEU	371	65.856	37.182	135.927	1.00	0.00	C
ATOM	5907	CG	LEU	371	67.144	37.943	136.312	1.00	0.00	C
ATOM	5908	CD1	LEU	371	68.076	37.013	137.089	1.00	0.00	C
ATOM	5909	CD2	LEU	371	67.888	38.451	135.077	1.00	0.00	C
ATOM	5910	H	LEU	371	64.680	38.986	137.251	1.00	0.00	H
ATOM	5911	HA	LEU	371	65.116	38.565	134.434	1.00	0.00	H
ATOM	5912	HB2	LEU	371	65.463	36.705	136.825	1.00	0.00	H
ATOM	5913	HB3	LEU	371	66.120	36.418	135.196	1.00	0.00	H
ATOM	5914	HG	LEU	371	66.852	38.798	136.922	1.00	0.00	H
ATOM	5915	HD11	LEU	371	67.566	36.649	137.981	1.00	0.00	H
ATOM	5916	HD12	LEU	371	68.354	36.168	136.459	1.00	0.00	H
ATOM	5917	HD13	LEU	371	68.973	37.559	137.381	1.00	0.00	H
ATOM	5918	HD21	LEU	371	68.185	37.604	134.458	1.00	0.00	H
ATOM	5919	HD22	LEU	371	67.234	39.108	134.504	1.00	0.00	H
ATOM	5920	HD23	LEU	371	68.775	39.003	135.389	1.00	0.00	H

ATOM	5921	N	ILE	372	62.617	36.889	135.786	1.00	0.00	N
ATOM	5922	CA	ILE	372	61.358	36.185	135.488	1.00	0.00	C
ATOM	5923	C	ILE	372	60.395	37.080	134.680	1.00	0.00	C
ATOM	5924	O	ILE	372	59.824	36.631	133.687	1.00	0.00	O
ATOM	5925	CB	ILE	372	60.732	35.658	136.806	1.00	0.00	C
ATOM	5926	CG1	ILE	372	61.599	34.514	137.390	1.00	0.00	C
ATOM	5927	CG2	ILE	372	59.282	35.186	136.613	1.00	0.00	C
ATOM	5928	CD1	ILE	372	61.298	34.196	138.865	1.00	0.00	C
ATOM	5929	H	ILE	372	62.791	37.161	136.743	1.00	0.00	H
ATOM	5930	HA	ILE	372	61.565	35.323	134.854	1.00	0.00	H
ATOM	5931	HB	ILE	372	60.709	36.489	137.511	1.00	0.00	H
ATOM	5932	HG12	ILE	372	61.422	33.614	136.801	1.00	0.00	H
ATOM	5933	HG13	ILE	372	62.647	34.801	137.308	1.00	0.00	H
ATOM	5934	HG21	ILE	372	58.682	36.006	136.219	1.00	0.00	H
ATOM	5935	HG22	ILE	372	59.262	34.352	135.912	1.00	0.00	H
ATOM	5936	HG23	ILE	372	58.874	34.865	137.571	1.00	0.00	H

ATOM	5937	HD11	ILE	372	61.492	35.079	139.474	1.00	0.00	H
ATOM	5938	HD12	ILE	372	60.252	33.906	138.968	1.00	0.00	H
ATOM	5939	HD13	ILE	372	61.936	33.378	139.198	1.00	0.00	H
ATOM	5940	N	GLU	373	60.280	38.361	135.026	1.00	0.00	N
ATOM	5941	CA	GLU	373	59.461	39.356	134.316	1.00	0.00	C
ATOM	5942	C	GLU	373	59.936	39.630	132.882	1.00	0.00	C
ATOM	5943	O	GLU	373	59.113	39.649	131.968	1.00	0.00	O
ATOM	5944	CB	GLU	373	59.417	40.660	135.130	1.00	0.00	C
ATOM	5945	CG	GLU	373	58.557	40.496	136.399	1.00	0.00	C
ATOM	5946	CD	GLU	373	58.702	41.666	137.389	1.00	0.00	C
ATOM	5947	OE1	GLU	373	57.736	41.867	138.157	1.00	0.00	O
ATOM	5948	OE2	GLU	373	59.733	42.387	137.360	1.00	0.00	O1-
ATOM	5949	H	GLU	373	60.794	38.673	135.837	1.00	0.00	H
ATOM	5950	HA	GLU	373	58.459	38.937	134.223	1.00	0.00	H
ATOM	5951	HB2	GLU	373	60.432	40.932	135.421	1.00	0.00	H

ATOM	5952	HB3 GLU	373	58.992	41.451	134.512	1.00	0.00	H
ATOM	5953	HG2 GLU	373	58.856	39.577	136.903	1.00	0.00	H
ATOM	5954	HG3 GLU	373	57.511	40.423	136.101	1.00	0.00	H
ATOM	5955	N ASN	374	61.253	39.723	132.653	1.00	0.00	N
ATOM	5956	CA ASN	374	61.810	39.758	131.298	1.00	0.00	C
ATOM	5957	C ASN	374	61.424	38.494	130.509	1.00	0.00	C
ATOM	5958	O ASN	374	60.814	38.597	129.448	1.00	0.00	O
ATOM	5959	CB ASN	374	63.339	39.935	131.351	1.00	0.00	C
ATOM	5960	CG ASN	374	63.836	41.230	131.973	1.00	0.00	C
ATOM	5961	OD1 ASN	374	63.205	42.282	131.980	1.00	0.00	O
ATOM	5962	ND2 ASN	374	65.078	41.198	132.409	1.00	0.00	N
ATOM	5963	H ASN	374	61.883	39.771	133.441	1.00	0.00	H
ATOM	5964	HA ASN	374	61.385	40.614	130.774	1.00	0.00	H
ATOM	5965	HB2 ASN	374	63.716	39.889	130.329	1.00	0.00	H
ATOM	5966	HB3 ASN	374	63.751	39.107	131.928	1.00	0.00	H
ATOM	5967	HD21 ASN	374	65.515	42.042	132.751	1.00	0.00	H

ATOM	5968	HD22 ASN	374	65.594	40.330	132.401	1.00	0.00	H
ATOM	5969	N LYS	375	61.609	37.291	131.083	1.00	0.00	N
ATOM	5970	CA LYS	375	61.240	36.016	130.441	1.00	0.00	C
ATOM	5971	C LYS	375	59.746	35.873	130.129	1.00	0.00	C
ATOM	5972	O LYS	375	59.408	35.451	129.022	1.00	0.00	O
ATOM	5973	CB LYS	375	61.759	34.839	131.274	1.00	0.00	C
ATOM	5974	CG LYS	375	63.281	34.691	131.136	1.00	0.00	C
ATOM	5975	CD LYS	375	63.808	33.591	132.064	1.00	0.00	C
ATOM	5976	CE LYS	375	65.328	33.479	131.913	1.00	0.00	C
ATOM	5977	NZ LYS	375	65.885	32.405	132.775	1.00	0.00	N1+
ATOM	5978	H LYS	375	62.023	37.260	132.004	1.00	0.00	H
ATOM	5979	HA LYS	375	61.725	36.012	129.465	1.00	0.00	H
ATOM	5980	HB2 LYS	375	61.512	35.008	132.322	1.00	0.00	H
ATOM	5981	HB3 LYS	375	61.280	33.922	130.931	1.00	0.00	H
ATOM	5982	HG2 LYS	375	63.523	34.434	130.105	1.00	0.00	H

ATOM	5983	HG3	LYS	375	63.757	35.636	131.396	1.00	0.00	H
ATOM	5984	HD2	LYS	375	63.346	32.640	131.799	1.00	0.00	H
ATOM	5985	HD3	LYS	375	63.563	33.839	133.097	1.00	0.00	H
ATOM	5986	HE2	LYS	375	65.782	34.429	132.194	1.00	0.00	H
ATOM	5987	HE3	LYS	375	65.565	33.256	130.873	1.00	0.00	H
ATOM	5988	HZ1	LYS	375	65.670	32.604	133.742	1.00	0.00	H
ATOM	5989	HZ2	LYS	375	65.477	31.519	132.515	1.00	0.00	H
ATOM	5990	HZ3	LYS	375	66.887	32.362	132.655	1.00	0.00	H
ATOM	5991	N	MET	376	58.852	36.331	131.015	1.00	0.00	N
ATOM	5992	CA	MET	376	57.405	36.407	130.731	1.00	0.00	C
ATOM	5993	C	MET	376	57.072	37.370	129.577	1.00	0.00	C
ATOM	5994	O	MET	376	56.193	37.077	128.772	1.00	0.00	O
ATOM	5995	CB	MET	376	56.631	36.817	131.996	1.00	0.00	C
ATOM	5996	CG	MET	376	56.609	35.709	133.056	1.00	0.00	C
ATOM	5997	SD	MET	376	55.521	36.023	134.479	1.00	0.00	S
ATOM	5998	CE	MET	376	56.284	37.513	135.182	1.00	0.00	C

ATOM	5999	H	MET	376	59.183	36.638	131.918	1.00	0.00	H
ATOM	6000	HA	MET	376	57.096	35.410	130.417	1.00	0.00	H
ATOM	6001	HB2	MET	376	55.604	37.054	131.716	1.00	0.00	H
ATOM	6002	HB3	MET	376	57.104	37.701	132.424	1.00	0.00	H
ATOM	6003	HG2	MET	376	57.625	35.579	133.430	1.00	0.00	H
ATOM	6004	HG3	MET	376	56.279	34.788	132.575	1.00	0.00	H
ATOM	6005	HE1	MET	376	57.314	37.295	135.463	1.00	0.00	H
ATOM	6006	HE2	MET	376	56.271	38.312	134.441	1.00	0.00	H
ATOM	6007	HE3	MET	376	55.725	37.826	136.064	1.00	0.00	H
ATOM	6008	N	LEU	377	57.827	38.464	129.434	1.00	0.00	N
ATOM	6009	CA	LEU	377	57.765	39.384	128.290	1.00	0.00	C
ATOM	6010	C	LEU	377	58.577	38.923	127.060	1.00	0.00	C
ATOM	6011	O	LEU	377	58.644	39.656	126.075	1.00	0.00	O
ATOM	6012	CB	LEU	377	58.174	40.795	128.763	1.00	0.00	C
ATOM	6013	CG	LEU	377	57.195	41.442	129.766	1.00	0.00	C

ATOM	6014	CD1	LEU	377	57.762	42.785	130.231	1.00	0.00	C
ATOM	6015	CD2	LEU	377	55.817	41.697	129.141	1.00	0.00	C
ATOM	6016	H	LEU	377	58.489	38.674	130.167	1.00	0.00	H
ATOM	6017	HA	LEU	377	56.735	39.397	127.933	1.00	0.00	H
ATOM	6018	HB2	LEU	377	59.152	40.724	129.239	1.00	0.00	H
ATOM	6019	HB3	LEU	377	58.242	41.441	127.888	1.00	0.00	H
ATOM	6020	HG	LEU	377	57.077	40.750	130.600	1.00	0.00	H
ATOM	6021	HD11	LEU	377	58.738	42.628	130.691	1.00	0.00	H
ATOM	6022	HD12	LEU	377	57.867	43.451	129.375	1.00	0.00	H
ATOM	6023	HD13	LEU	377	57.085	43.233	130.959	1.00	0.00	H
ATOM	6024	HD21	LEU	377	55.920	42.388	128.304	1.00	0.00	H
ATOM	6025	HD22	LEU	377	55.400	40.755	128.785	1.00	0.00	H
ATOM	6026	HD23	LEU	377	55.153	42.129	129.890	1.00	0.00	H
ATOM	6027	N	LYS	378	59.132	37.700	127.070	1.00	0.00	N
ATOM	6028	CA	LYS	378	59.962	37.112	125.995	1.00	0.00	C
ATOM	6029	C	LYS	378	61.217	37.964	125.702	1.00	0.00	C

ATOM	6030	O	LYS	378	61.590	38.190	124.545	1.00	0.00	O
ATOM	6031	CB	LYS	378	59.132	36.824	124.726	1.00	0.00	C
ATOM	6032	CG	LYS	378	57.787	36.139	124.993	1.00	0.00	C
ATOM	6033	CD	LYS	378	57.093	35.791	123.672	1.00	0.00	C
ATOM	6034	CE	LYS	378	55.635	35.380	123.943	1.00	0.00	C
ATOM	6035	NZ	LYS	378	54.932	34.992	122.692	1.00	0.00	N1+
ATOM	6036	H	LYS	378	58.968	37.129	127.887	1.00	0.00	H
ATOM	6037	HA	LYS	378	60.324	36.149	126.356	1.00	0.00	H
ATOM	6038	HB2	LYS	378	58.939	37.771	124.223	1.00	0.00	H
ATOM	6039	HB3	LYS	378	59.720	36.179	124.073	1.00	0.00	H
ATOM	6040	HG2	LYS	378	57.956	35.225	125.561	1.00	0.00	H
ATOM	6041	HG3	LYS	378	57.149	36.811	125.567	1.00	0.00	H
ATOM	6042	HD2	LYS	378	57.619	34.965	123.193	1.00	0.00	H
ATOM	6043	HD3	LYS	378	57.108	36.661	123.015	1.00	0.00	H
ATOM	6044	HE2	LYS	378	55.110	36.220	124.397	1.00	0.00	H

ATOM	6045	HE3	LYS	378	55.628	34.533	124.629	1.00	0.00	H
ATOM	6046	HZ1	LYS	378	54.933	35.771	122.050	1.00	0.00	H
ATOM	6047	HZ2	LYS	378	55.406	34.206	122.269	1.00	0.00	H
ATOM	6048	HZ3	LYS	378	53.979	34.735	122.907	1.00	0.00	H
ATOM	6049	N	TRP	379	61.854	38.449	126.779	1.00	0.00	N
ATOM	6050	CA	TRP	379	62.848	39.536	126.795	1.00	0.00	C
ATOM	6051	C	TRP	379	64.121	39.226	127.696	1.00	0.00	C
ATOM	6052	O	TRP	379	64.096	38.235	128.409	1.00	0.00	O
ATOM	6053	CB	TRP	379	62.112	40.809	127.307	1.00	0.00	C
ATOM	6054	CG	TRP	379	62.058	42.081	126.533	1.00	0.00	C
ATOM	6055	CD1	TRP	379	62.361	42.283	125.231	1.00	0.00	C
ATOM	6056	CD2	TRP	379	61.477	43.345	126.993	1.00	0.00	C
ATOM	6057	NE1	TRP	379	62.108	43.596	124.883	1.00	0.00	N
ATOM	6058	CE2	TRP	379	61.537	44.292	125.929	1.00	0.00	C
ATOM	6059	CE3	TRP	379	60.806	43.753	128.168	1.00	0.00	C
ATOM	6060	CZ2	TRP	379	61.007	45.592	126.039	1.00	0.00	C

ATOM	6061	CZ3 TRP	379	60.231	45.032	128.272	1.00	0.00	C
ATOM	6062	CH2 TRP	379	60.352	45.965	127.230	1.00	0.00	C
ATOM	6063	OXT TRP	379	64.990	40.275	127.950	1.00	0.00	O1-
ATOM	6064	H TRP	379	61.629	38.026	127.668	1.00	0.00	H
ATOM	6065	HA TRP	379	63.243	39.667	125.788	1.00	0.00	H
ATOM	6066	HB2 TRP	379	61.076	40.512	127.470	1.00	0.00	H
ATOM	6067	HB3 TRP	379	62.573	41.058	128.263	1.00	0.00	H
ATOM	6068	HD1 TRP	379	62.745	41.528	124.561	1.00	0.00	H
ATOM	6069	HE1 TRP	379	62.315	43.995	123.979	1.00	0.00	H
ATOM	6070	HE3 TRP	379	60.734	43.070	129.001	1.00	0.00	H
ATOM	6071	HZ2 TRP	379	61.101	46.293	125.223	1.00	0.00	H
ATOM	6072	HZ3 TRP	379	59.688	45.300	129.166	1.00	0.00	H
ATOM	6073	HH2 TRP	379	59.947	46.960	127.340	1.00	0.00	H
TER	6074	TRP	379						
HETATM	6075	CHA HEM C	381	67.889	69.720	168.909	1.00	0.00	C

HETATM 6076	CHB HEM C 381	70.349	73.634	166.620	1.00	0.00	C
HETATM 6077	CHC HEM C 381	69.327	71.560	162.061	1.00	0.00	C
HETATM 6078	CHD HEM C 381	67.214	67.540	164.370	1.00	0.00	C
HETATM 6079	C1A HEM C 381	68.653	70.978	168.602	1.00	0.00	C
HETATM 6080	C2A HEM C 381	69.093	71.916	169.690	1.00	0.00	C
HETATM 6081	C3A HEM C 381	69.755	73.015	169.025	1.00	0.00	C
HETATM 6082	C4A HEM C 381	69.702	72.709	167.577	1.00	0.00	C
HETATM 6083	CMA HEM C 381	70.375	74.212	169.678	1.00	0.00	C
HETATM 6084	CAA HEM C 381	68.902	71.790	171.184	1.00	0.00	C
HETATM 6085	CBA HEM C 381	67.605	72.468	171.553	1.00	0.00	C
HETATM 6086	CGA HEM C 381	66.475	71.455	171.566	1.00	0.00	C
HETATM 6087	O1A HEM C 381	66.686	70.278	171.913	1.00	0.00	O
HETATM 6088	O2A HEM C 381	65.346	71.815	171.229	1.00	0.00	O1-
HETATM 6089	C1B HEM C 381	70.177	73.303	165.206	1.00	0.00	C
HETATM 6090	C2B HEM C 381	70.615	74.140	164.250	1.00	0.00	C
HETATM 6091	C3B HEM C 381	70.351	73.596	163.068	1.00	0.00	C

HETATM 6092	C4B HEM C 381	69.738	72.407	163.227	1.00	0.00	C
HETATM 6093	CMB HEM C 381	71.302	75.506	164.480	1.00	0.00	C
HETATM 6094	CAB HEM C 381	70.663	74.236	161.740	1.00	0.00	C
HETATM 6095	CBB HEM C 381	72.164	74.285	161.519	1.00	0.00	C
HETATM 6096	C1C HEM C 381	68.799	70.243	162.461	1.00	0.00	C
HETATM 6097	C2C HEM C 381	68.695	69.234	161.600	1.00	0.00	C
HETATM 6098	C3C HEM C 381	68.147	68.219	162.202	1.00	0.00	C
HETATM 6099	C4C HEM C 381	67.875	68.519	163.460	1.00	0.00	C
HETATM 6100	CMC HEM C 381	69.142	69.226	160.158	1.00	0.00	C
HETATM 6101	CAC HEM C 381	67.901	66.883	161.575	1.00	0.00	C
HETATM 6102	CBC HEM C 381	66.450	66.786	161.126	1.00	0.00	C
HETATM 6103	C1D HEM C 381	67.320	67.873	165.800	1.00	0.00	C
HETATM 6104	C2D HEM C 381	66.898	67.025	166.777	1.00	0.00	C
HETATM 6105	C3D HEM C 381	67.055	67.607	167.968	1.00	0.00	C
HETATM 6106	C4D HEM C 381	67.606	68.818	167.772	1.00	0.00	C

HETATM 6107	CMD HEM C 381	66.344	65.626	166.543	1.00	0.00	C
HETATM 6108	CAD HEM C 381	66.726	67.008	169.344	1.00	0.00	C
HETATM 6109	CBD HEM C 381	65.216	66.812	169.638	1.00	0.00	C
HETATM 6110	CGD HEM C 381	64.602	68.013	170.354	1.00	0.00	C
HETATM 6111	O1D HEM C 381	64.564	68.077	171.590	1.00	0.00	O
HETATM 6112	O2D HEM C 381	64.129	68.932	169.687	1.00	0.00	O1-
HETATM 6113	NA HEM C 381	69.069	71.515	167.425	1.00	0.00	N1+
HETATM 6114	NB HEM C 381	69.669	72.110	164.619	1.00	0.00	N
HETATM 6115	NC HEM C 381	68.181	69.893	163.703	1.00	0.00	N
HETATM 6116	ND HEM C 381	67.697	69.102	166.372	1.00	0.00	N
HETATM 6117	FE HEM C 381	68.680	70.614	165.504	1.00	0.00	FE
HETATM 6118	HHA HEM C 381	67.563	69.486	169.912	1.00	0.00	H
HETATM 6119	HHB HEM C 381	70.911	74.497	166.945	1.00	0.00	H
HETATM 6120	HHC1 HEM C 381	68.554	72.089	161.503	1.00	0.00	H
HETATM 6121	HHC2 HEM C 381	70.196	71.406	161.421	1.00	0.00	H
HETATM 6122	HHD HEM C 381	66.701	66.661	164.010	1.00	0.00	H

HETATM 6123	H2A HEM C 381	70.043	71.387	169.765	1.00	0.00	H
HETATM 6124	H3A HEM C 381	68.805	73.545	168.950	1.00	0.00	H
HETATM 6125	HMA1 HEM C 381	71.420	74.001	169.906	1.00	0.00	H
HETATM 6126	HMA2 HEM C 381	69.841	74.440	170.600	1.00	0.00	H
HETATM 6127	HMA3 HEM C 381	70.316	75.066	169.003	1.00	0.00	H
HETATM 6128	HAA1 HEM C 381	68.860	70.737	171.463	1.00	0.00	H
HETATM 6129	HAA2 HEM C 381	69.731	72.271	171.704	1.00	0.00	H
HETATM 6130	HBA1 HEM C 381	67.384	73.246	170.822	1.00	0.00	H
HETATM 6131	HBA2 HEM C 381	67.700	72.915	172.542	1.00	0.00	H
HETATM 6132	HMB1 HEM C 381	71.545	75.957	163.518	1.00	0.00	H
HETATM 6133	HMB2 HEM C 381	72.217	75.360	165.054	1.00	0.00	H
HETATM 6134	HMB3 HEM C 381	70.628	76.163	165.030	1.00	0.00	H
HETATM 6135	HAB1 HEM C 381	70.201	73.654	160.943	1.00	0.00	H
HETATM 6136	HAB2 HEM C 381	70.264	75.250	161.727	1.00	0.00	H
HETATM 6137	HBB1 HEM C 381	72.566	73.272	161.531	1.00	0.00	H

HETATM 6138 HBB2 HEM C 381	72.629	74.870	162.312	1.00	0.00	H
HETATM 6139 HBB3 HEM C 381	72.374	74.748	160.555	1.00	0.00	H
HETATM 6140 HMC1 HEM C 381	68.922	68.255	159.715	1.00	0.00	H
HETATM 6141 HMC2 HEM C 381	70.215	69.413	160.109	1.00	0.00	H
HETATM 6142 HMC3 HEM C 381	68.612	70.005	159.609	1.00	0.00	H
HETATM 6143 HAC1 HEM C 381	68.556	66.762	160.712	1.00	0.00	H
HETATM 6144 HAC2 HEM C 381	68.108	66.098	162.302	1.00	0.00	H
HETATM 6145 HBC1 HEM C 381	66.241	67.571	160.399	1.00	0.00	H
HETATM 6146 HBC2 HEM C 381	65.794	66.906	161.988	1.00	0.00	H
HETATM 6147 HBC3 HEM C 381	66.275	65.812	160.669	1.00	0.00	H
HETATM 6148 HMD1 HEM C 381	66.085	65.173	167.500	1.00	0.00	H
HETATM 6149 HMD2 HEM C 381	67.097	65.016	166.044	1.00	0.00	H
HETATM 6150 HMD3 HEM C 381	65.454	65.688	165.917	1.00	0.00	H
HETATM 6151 HAD1 HEM C 381	67.211	66.034	169.412	1.00	0.00	H
HETATM 6152 HAD2 HEM C 381	67.134	67.672	170.106	1.00	0.00	H
HETATM 6153 HBD1 HEM C 381	65.093	65.930	170.266	1.00	0.00	H

HETATM 6154	HBD2 HEM C 381	64.692	66.662	168.694	1.00	0.00	H
HETATM 6155	CHA HEM C 382	65.084	63.833	143.169	1.00	0.00	C
HETATM 6156	CHB HEM C 382	66.203	66.985	147.069	1.00	0.00	C
HETATM 6157	CHC HEM C 382	67.728	62.961	149.681	1.00	0.00	C
HETATM 6158	CHD HEM C 382	68.038	60.288	145.369	1.00	0.00	C
HETATM 6159	C1A HEM C 382	65.201	64.986	144.105	1.00	0.00	C
HETATM 6160	C2A HEM C 382	64.598	66.283	143.789	1.00	0.00	C
HETATM 6161	C3A HEM C 382	64.956	67.163	144.879	1.00	0.00	C
HETATM 6162	C4A HEM C 382	65.700	66.364	145.826	1.00	0.00	C
HETATM 6163	CMA HEM C 382	64.611	68.581	145.047	1.00	0.00	C
HETATM 6164	CAA HEM C 382	63.821	66.635	142.574	1.00	0.00	C
HETATM 6165	CBA HEM C 382	62.306	66.463	142.814	1.00	0.00	C
HETATM 6166	CGA HEM C 382	61.913	65.082	143.307	1.00	0.00	C
HETATM 6167	O1A HEM C 382	61.874	64.110	142.583	1.00	0.00	O
HETATM 6168	O2A HEM C 382	61.620	64.930	144.443	1.00	0.00	O1-

HETATM 6169	C1B HEM C 382	66.748	66.044	148.041	1.00	0.00	C
HETATM 6170	C2B HEM C 382	67.128	66.446	149.247	1.00	0.00	C
HETATM 6171	C3B HEM C 382	67.538	65.379	149.951	1.00	0.00	C
HETATM 6172	C4B HEM C 382	67.401	64.301	149.184	1.00	0.00	C
HETATM 6173	CMB HEM C 382	67.091	67.898	149.676	1.00	0.00	C
HETATM 6174	CAB HEM C 382	68.075	65.277	151.392	1.00	0.00	C
HETATM 6175	CBB HEM C 382	68.731	66.524	151.978	1.00	0.00	C
HETATM 6176	C1C HEM C 382	67.806	61.933	148.614	1.00	0.00	C
HETATM 6177	C2C HEM C 382	67.963	60.666	148.919	1.00	0.00	C
HETATM 6178	C3C HEM C 382	68.051	59.953	147.800	1.00	0.00	C
HETATM 6179	C4C HEM C 382	67.904	60.763	146.772	1.00	0.00	C
HETATM 6180	CMC HEM C 382	68.016	60.173	150.356	1.00	0.00	C
HETATM 6181	CAC HEM C 382	68.179	58.447	147.690	1.00	0.00	C
HETATM 6182	CBC HEM C 382	69.536	57.950	148.129	1.00	0.00	C
HETATM 6183	C1D HEM C 382	67.201	61.088	144.443	1.00	0.00	C
HETATM 6184	C2D HEM C 382	66.931	60.705	143.168	1.00	0.00	C

HETATM 6185	C3D HEM C 382	66.166	61.626	142.588	1.00	0.00	C
HETATM 6186	C4D HEM C 382	65.936	62.639	143.473	1.00	0.00	C
HETATM 6187	CMD HEM C 382	67.416	59.418	142.498	1.00	0.00	C
HETATM 6188	CAD HEM C 382	65.633	61.526	141.169	1.00	0.00	C
HETATM 6189	CBD HEM C 382	64.191	61.028	141.257	1.00	0.00	C
HETATM 6190	CGD HEM C 382	63.414	61.075	139.951	1.00	0.00	C
HETATM 6191	O1D HEM C 382	62.534	60.249	139.741	1.00	0.00	O
HETATM 6192	O2D HEM C 382	63.631	61.950	139.130	1.00	0.00	O1-
HETATM 6193	NA HEM C 382	65.808	65.125	145.301	1.00	0.00	N1+
HETATM 6194	NB HEM C 382	66.782	64.633	147.955	1.00	0.00	N
HETATM 6195	NC HEM C 382	67.836	62.110	147.219	1.00	0.00	N
HETATM 6196	ND HEM C 382	66.651	62.374	144.672	1.00	0.00	N
HETATM 6197	FE HEM C 382	66.793	63.535	146.295	1.00	0.00	FE
HETATM 6198	HHA1 HEM C 382	64.044	63.508	143.172	1.00	0.00	H
HETATM 6199	HHA2 HEM C 382	65.351	64.186	142.173	1.00	0.00	H

HETATM 6200	HHB HEM C 382	66.170	68.050	147.244	1.00	0.00	H
HETATM 6201	HHC1 HEM C 382	68.693	63.007	150.186	1.00	0.00	H
HETATM 6202	HHC2 HEM C 382	66.959	62.661	150.393	1.00	0.00	H
HETATM 6203	HHD1 HEM C 382	69.081	60.371	145.065	1.00	0.00	H
HETATM 6204	HHD2 HEM C 382	67.726	59.245	145.317	1.00	0.00	H
HETATM 6205	HMA1 HEM C 382	65.037	68.951	145.980	1.00	0.00	H
HETATM 6206	HMA2 HEM C 382	63.527	68.690	145.074	1.00	0.00	H
HETATM 6207	HMA3 HEM C 382	65.013	69.154	144.212	1.00	0.00	H
HETATM 6208	HAA1 HEM C 382	64.024	67.673	142.310	1.00	0.00	H
HETATM 6209	HAA2 HEM C 382	64.128	65.985	141.755	1.00	0.00	H
HETATM 6210	HBA1 HEM C 382	61.786	66.653	141.875	1.00	0.00	H
HETATM 6211	HBA2 HEM C 382	61.991	67.195	143.558	1.00	0.00	H
HETATM 6212	HMB1 HEM C 382	67.448	67.983	150.702	1.00	0.00	H
HETATM 6213	HMB2 HEM C 382	66.068	68.269	149.616	1.00	0.00	H
HETATM 6214	HMB3 HEM C 382	67.730	68.487	149.019	1.00	0.00	H
HETATM 6215	HAB1 HEM C 382	67.237	65.013	152.037	1.00	0.00	H

HETATM 6216 HAB2 HEM C 382	68.815	64.477	151.411	1.00	0.00	H
HETATM 6217 HBB1 HEM C 382	68.016	67.347	151.974	1.00	0.00	H
HETATM 6218 HBB2 HEM C 382	69.599	66.794	151.377	1.00	0.00	H
HETATM 6219 HBB3 HEM C 382	69.046	66.322	153.002	1.00	0.00	H
HETATM 6220 HMC1 HEM C 382	68.152	59.091	150.364	1.00	0.00	H
HETATM 6221 HMC2 HEM C 382	67.084	60.426	150.862	1.00	0.00	H
HETATM 6222 HMC3 HEM C 382	68.850	60.648	150.872	1.00	0.00	H
HETATM 6223 HAC1 HEM C 382	67.417	57.984	148.317	1.00	0.00	H
HETATM 6224 HAC2 HEM C 382	68.019	58.157	146.651	1.00	0.00	H
HETATM 6225 HBC1 HEM C 382	69.708	58.234	149.167	1.00	0.00	H
HETATM 6226 HBC2 HEM C 382	70.307	58.393	147.499	1.00	0.00	H
HETATM 6227 HBC3 HEM C 382	69.572	56.864	148.038	1.00	0.00	H
HETATM 6228 HMD1 HEM C 382	67.044	59.379	141.474	1.00	0.00	H
HETATM 6229 HMD2 HEM C 382	67.044	58.557	143.053	1.00	0.00	H
HETATM 6230 HMD3 HEM C 382	68.506	59.401	142.490	1.00	0.00	H

HETATM 6231	HAD1 HEM C 382	65.661	62.505	140.691	1.00	0.00	H
HETATM 6232	HAD2 HEM C 382	66.235	60.823	140.593	1.00	0.00	H
HETATM 6233	HBD1 HEM C 382	63.664	61.644	141.986	1.00	0.00	H
HETATM 6234	HBD2 HEM C 382	64.211	59.994	141.602	1.00	0.00	H
HETATM 6235	C1 UQ2 C 383	70.225	55.273	167.066	1.00	0.00	C
HETATM 6236	C2 UQ2 C 383	69.827	55.388	168.524	1.00	0.00	C
HETATM 6237	C3 UQ2 C 383	69.857	54.168	169.403	1.00	0.00	C
HETATM 6238	C4 UQ2 C 383	70.294	52.851	168.828	1.00	0.00	C
HETATM 6239	C5 UQ2 C 383	70.714	52.749	167.375	1.00	0.00	C
HETATM 6240	C6 UQ2 C 383	70.696	53.946	166.481	1.00	0.00	C
HETATM 6241	CM2 UQ2 C 383	70.374	57.351	169.725	1.00	0.00	C
HETATM 6242	CM3 UQ2 C 383	70.526	54.182	171.595	1.00	0.00	C
HETATM 6243	CM5 UQ2 C 383	71.203	51.450	166.823	1.00	0.00	C
HETATM 6244	C7 UQ2 C 383	71.169	53.777	165.018	1.00	0.00	C
HETATM 6245	C8 UQ2 C 383	72.009	54.982	164.561	1.00	0.00	C
HETATM 6246	C9 UQ2 C 383	72.824	55.022	163.430	1.00	0.00	C

HETATM 6247	C10 UQ2 C 383	73.555	56.318	163.122	1.00	0.00	C
HETATM 6248	C11 UQ2 C 383	73.005	53.789	162.554	1.00	0.00	C
HETATM 6249	C12 UQ2 C 383	73.697	54.124	161.222	1.00	0.00	C
HETATM 6250	C13 UQ2 C 383	75.169	53.656	161.163	1.00	0.00	C
HETATM 6251	C14 UQ2 C 383	75.891	53.782	159.959	1.00	0.00	C
HETATM 6252	C15 UQ2 C 383	75.218	54.353	158.757	1.00	0.00	C
HETATM 6253	C16 UQ2 C 383	77.333	53.348	159.837	1.00	0.00	C
HETATM 6254	O1 UQ2 C 383	70.178	56.312	166.368	1.00	0.00	O
HETATM 6255	O2 UQ2 C 383	69.360	56.610	169.030	1.00	0.00	O
HETATM 6256	O3 UQ2 C 383	69.432	54.250	170.706	1.00	0.00	O
HETATM 6257	O4 UQ2 C 383	70.349	51.846	169.566	1.00	0.00	O
HETATM 6258	H2 UQ2 C 383	68.804	55.137	168.244	1.00	0.00	H
HETATM 6259	H3 UQ2 C 383	70.880	54.393	169.705	1.00	0.00	H
HETATM 6260	H5 UQ2 C 383	69.693	52.502	167.085	1.00	0.00	H
HETATM 6261	H6 UQ2 C 383	71.717	54.181	166.780	1.00	0.00	H

HETATM 6262 HM21 UQ2 C 383	69.952	58.286	170.093	1.00	0.00	H
HETATM 6263 HM22 UQ2 C 383	71.197	57.567	169.044	1.00	0.00	H
HETATM 6264 HM23 UQ2 C 383	70.742	56.763	170.566	1.00	0.00	H
HETATM 6265 HM31 UQ2 C 383	70.165	54.249	172.621	1.00	0.00	H
HETATM 6266 HM32 UQ2 C 383	71.208	55.008	171.395	1.00	0.00	H
HETATM 6267 HM33 UQ2 C 383	71.050	53.236	171.455	1.00	0.00	H
HETATM 6268 HM51 UQ2 C 383	72.281	51.377	166.967	1.00	0.00	H
HETATM 6269 HM52 UQ2 C 383	70.974	51.398	165.759	1.00	0.00	H
HETATM 6270 HM53 UQ2 C 383	70.711	50.627	167.341	1.00	0.00	H
HETATM 6271 H71 UQ2 C 383	71.774	52.873	164.942	1.00	0.00	H
HETATM 6272 H72 UQ2 C 383	70.297	53.686	164.371	1.00	0.00	H
HETATM 6273 H8 UQ2 C 383	71.964	55.874	165.168	1.00	0.00	H
HETATM 6274 H101 UQ2 C 383	74.147	56.195	162.215	1.00	0.00	H
HETATM 6275 H102 UQ2 C 383	74.213	56.571	163.954	1.00	0.00	H
HETATM 6276 H103 UQ2 C 383	72.830	57.118	162.976	1.00	0.00	H
HETATM 6277 H111 UQ2 C 383	73.612	53.061	163.092	1.00	0.00	H

HETATM 6278	H112	UQ2 C 383	72.025	53.360	162.343	1.00	0.00	H
HETATM 6279	H121	UQ2 C 383	73.672	55.205	161.081	1.00	0.00	H
HETATM 6280	H122	UQ2 C 383	73.147	53.639	160.415	1.00	0.00	H
HETATM 6281	H13	UQ2 C 383	75.641	53.235	162.038	1.00	0.00	H
HETATM 6282	H151	UQ2 C 383	75.920	54.375	157.924	1.00	0.00	H
HETATM 6283	H152	UQ2 C 383	74.882	55.366	158.976	1.00	0.00	H
HETATM 6284	H153	UQ2 C 383	74.360	53.735	158.493	1.00	0.00	H
HETATM 6285	H161	UQ2 C 383	77.685	53.538	158.823	1.00	0.00	H
HETATM 6286	H162	UQ2 C 383	77.412	52.283	160.056	1.00	0.00	H
HETATM 6287	H163	UQ2 C 383	77.943	53.910	160.544	1.00	0.00	H
HETATM 6288	C1	UQ2 C 384	60.666	69.830	141.988	1.00	0.00	C
HETATM 6289	C2	UQ2 C 384	60.459	68.959	140.776	1.00	0.00	C
HETATM 6290	C3	UQ2 C 384	61.600	68.637	139.866	1.00	0.00	C
HETATM 6291	C4	UQ2 C 384	62.947	69.194	140.176	1.00	0.00	C
HETATM 6292	C5	UQ2 C 384	63.157	70.072	141.372	1.00	0.00	C

HETATM 6293	C6	UQ2 C 384	61.991	70.406	142.306	1.00	0.00	C
HETATM 6294	CM2	UQ2 C 384	59.155	67.185	141.108	1.00	0.00	C
HETATM 6295	CM3	UQ2 C 384	61.117	68.559	137.593	1.00	0.00	C
HETATM 6296	CM5	UQ2 C 384	64.551	70.565	141.587	1.00	0.00	C
HETATM 6297	C7	UQ2 C 384	62.022	71.320	143.554	1.00	0.00	C
HETATM 6298	C8	UQ2 C 384	63.389	71.707	144.134	1.00	0.00	C
HETATM 6299	C9	UQ2 C 384	63.594	72.867	144.894	1.00	0.00	C
HETATM 6300	C10	UQ2 C 384	62.453	73.825	145.122	1.00	0.00	C
HETATM 6301	C11	UQ2 C 384	64.988	73.190	145.438	1.00	0.00	C
HETATM 6302	C12	UQ2 C 384	65.152	72.854	146.919	1.00	0.00	C
HETATM 6303	C13	UQ2 C 384	66.637	72.606	147.245	1.00	0.00	C
HETATM 6304	C14	UQ2 C 384	67.276	73.283	148.296	1.00	0.00	C
HETATM 6305	C15	UQ2 C 384	68.730	73.016	148.595	1.00	0.00	C
HETATM 6306	C16	UQ2 C 384	66.524	74.288	149.139	1.00	0.00	C
HETATM 6307	O1	UQ2 C 384	59.711	70.096	142.736	1.00	0.00	O
HETATM 6308	O2	UQ2 C 384	59.218	68.455	140.498	1.00	0.00	O

HETATM 6309	O3	UQ2 C 384	61.420	67.808	138.762	1.00	0.00	O
HETATM 6310	O4	UQ2 C 384	63.915	68.921	139.430	1.00	0.00	O
HETATM 6311	H2	UQ2 C 384	60.233	69.843	140.180	1.00	0.00	H
HETATM 6312	H3	UQ2 C 384	61.829	67.763	140.475	1.00	0.00	H
HETATM 6313	H5	UQ2 C 384	62.933	70.953	140.770	1.00	0.00	H
HETATM 6314	HM21	UQ2 C 384	58.180	66.737	140.915	1.00	0.00	H
HETATM 6315	HM22	UQ2 C 384	59.300	67.291	142.183	1.00	0.00	H
HETATM 6316	HM23	UQ2 C 384	59.936	66.545	140.697	1.00	0.00	H
HETATM 6317	HM31	UQ2 C 384	60.983	67.881	136.750	1.00	0.00	H
HETATM 6318	HM32	UQ2 C 384	61.936	69.246	137.380	1.00	0.00	H
HETATM 6319	HM33	UQ2 C 384	60.200	69.126	137.753	1.00	0.00	H
HETATM 6320	HM51	UQ2 C 384	65.097	69.853	142.206	1.00	0.00	H
HETATM 6321	HM52	UQ2 C 384	64.521	71.533	142.087	1.00	0.00	H
HETATM 6322	HM53	UQ2 C 384	65.052	70.669	140.625	1.00	0.00	H
HETATM 6323	H71	UQ2 C 384	61.509	72.245	143.290	1.00	0.00	H

HETATM 6324	H72 UQ2 C 384	61.469	70.810	144.342	1.00	0.00	H
HETATM 6325	H8 UQ2 C 384	64.231	71.057	143.948	1.00	0.00	H
HETATM 6326	H101 UQ2 C 384	62.797	74.662	145.730	1.00	0.00	H
HETATM 6327	H102 UQ2 C 384	61.643	73.309	145.638	1.00	0.00	H
HETATM 6328	H103 UQ2 C 384	62.093	74.197	144.163	1.00	0.00	H
HETATM 6329	H111 UQ2 C 384	65.722	72.618	144.870	1.00	0.00	H
HETATM 6330	H112 UQ2 C 384	65.174	74.255	145.302	1.00	0.00	H
HETATM 6331	H121 UQ2 C 384	64.577	71.957	147.151	1.00	0.00	H
HETATM 6332	H122 UQ2 C 384	64.785	73.686	147.520	1.00	0.00	H
HETATM 6333	H13 UQ2 C 384	67.198	71.897	146.653	1.00	0.00	H
HETATM 6334	H151 UQ2 C 384	69.046	73.630	149.438	1.00	0.00	H
HETATM 6335	H152 UQ2 C 384	69.332	73.262	147.720	1.00	0.00	H
HETATM 6336	H153 UQ2 C 384	68.863	71.963	148.843	1.00	0.00	H
HETATM 6337	H161 UQ2 C 384	67.192	74.700	149.896	1.00	0.00	H
HETATM 6338	H162 UQ2 C 384	65.682	73.796	149.626	1.00	0.00	H
HETATM 6339	H163 UQ2 C 384	66.156	75.093	148.503	1.00	0.00	H

HETATM 6340 H1 UQ2 C 384 59.923 70.669 143.477 1.00 0.00 H

CONNECT 1300 6117

CONNECT 1513 6197

CONNECT 2855 6117

CONNECT 3083 6197

CONNECT 6075 6118 6079 6106 6106

CONNECT 6076 6119 6082 6082 6089

CONNECT 6077 6120 6121 6092 6096

CONNECT 6078 6122 6099 6103 6103

CONNECT 6079 6075 6080 6113 6113

CONNECT 6080 6079 6123 6081 6084

CONNECT 6081 6080 6124 6082 6083

CONNECT 6082 6076 6076 6081 6113

CONNECT 6083 6081 6125 6126 6127

CONNECT 6084 6080 6128 6129 6085

CONNECT 6085 6084 6130 6131 6086

CONNECT 6086 6085 6087 6087 6088

CONNECT 6087 6086 6086

CONNECT 6088 6086

CONNECT 6089 6076 6090 6090 6114

CONNECT 6090 6089 6089 6091 6093

CONNECT 6091 6090 6092 6092 6094

CONNECT 6092 6077 6091 6091 6114

CONNECT 6093 6090 6132 6133 6134

CONNECT 6094 6091 6135 6136 6095

CONNECT 6095 6094 6137 6138 6139

CONNECT 6096 6077 6097 6097 6115

CONNECT 6097 6096 6096 6098 6100

CONNECT 6098 6097 6099 6099 6101

CONNECT 6099 6078 6098 6098 6115

CONNECT 6100 6097 6140 6141 6142

CONNECT 6101 6098 6143 6144 6102

CONNECT 6102 6101 6145 6146 6147

CONNECT 6103 6078 6078 6104 6116

CONNECT 6104 6103 6105 6105 6107

CONNECT 6105 6104 6104 6106 6108

CONNECT 6106 6075 6075 6105 6116

CONNECT 6107 6104 6148 6149 6150

CONNECT 6108 6105 6151 6152 6109

CONNECT 6109 6108 6153 6154 6110

CONNECT 6110 6109 6111 6111 6112

CONNECT 6111 6110 6110

CONNECT 6112 6110

CONNECT 6113 6079 6079 6082 6117

CONNECT 6114 6089 6092 6117

CONNECT 6115 6096 6099 6117

CONECT 6116 6103 6106 6117

CONECT 6117 6113 6114 6115 6116 1300 2855

CONECT 6118 6075

CONECT 6119 6076

CONECT 6120 6077

CONECT 6121 6077

CONECT 6122 6078

CONECT 6123 6080

CONECT 6124 6081

CONECT 6125 6083

CONECT 6126 6083

CONECT 6127 6083

CONECT 6128 6084

CONECT 6129 6084

CONECT 6130 6085

CONECT 6131 6085

CONNECT 6132 6093

CONNECT 6133 6093

CONNECT 6134 6093

CONNECT 6135 6094

CONNECT 6136 6094

CONNECT 6137 6095

CONNECT 6138 6095

CONNECT 6139 6095

CONNECT 6140 6100

CONNECT 6141 6100

CONNECT 6142 6100

CONNECT 6143 6101

CONNECT 6144 6101

CONNECT 6145 6102

CONNECT 6146 6102

CONNECT 6147 6102

CONNECT 6148 6107

CONNECT 6149 6107

CONNECT 6150 6107

CONNECT 6151 6108

CONNECT 6152 6108

CONNECT 6153 6109

CONNECT 6154 6109

CONNECT 6155 6198 6199 6159 6186

CONNECT 6156 6200 6162 6162 6169

CONNECT 6157 6201 6202 6172 6176

CONNECT 6158 6203 6204 6179 6183

CONNECT 6159 6155 6160 6193 6193

CONNECT 6160 6159 6161 6161 6164

CONNECT 6161 6160 6160 6162 6163

CONNECT 6162 6156 6156 6161 6193

CONNECT 6163 6161 6205 6206 6207

CONNECT 6164 6160 6208 6209 6165

CONNECT 6165 6164 6210 6211 6166

CONNECT 6166 6165 6167 6167 6168

CONNECT 6167 6166 6166

CONNECT 6168 6166

CONNECT 6169 6156 6170 6170 6194

CONNECT 6170 6169 6169 6171 6173

CONNECT 6171 6170 6172 6172 6174

CONNECT 6172 6157 6171 6171 6194

CONNECT 6173 6170 6212 6213 6214

CONNECT 6174 6171 6215 6216 6175

CONNECT 6175 6174 6217 6218 6219

CONNECT 6176 6157 6177 6177 6195

CONNECT 6177 6176 6176 6178 6180

CONNECT 6178 6177 6179 6179 6181

CONNECT 6179 6158 6178 6178 6195

CONNECT 6180 6177 6220 6221 6222

CONNECT 6181 6178 6223 6224 6182

CONNECT 6182 6181 6225 6226 6227

CONNECT 6183 6158 6184 6184 6196

CONNECT 6184 6183 6183 6185 6187

CONNECT 6185 6184 6186 6186 6188

CONNECT 6186 6155 6185 6185 6196

CONNECT 6187 6184 6228 6229 6230

CONNECT 6188 6185 6231 6232 6189

CONNECT 6189 6188 6233 6234 6190

CONNECT 6190 6189 6191 6191 6192

CONNECT 6191 6190 6190

CONNECT 6192 6190

CONNECT 6193 6159 6159 6162 6197

CONNECT 6194 6169 6172 6197

CONNECT 6195 6176 6179 6197

CONNECT 6196 6183 6186 6197

CONNECT 6197 6193 6194 6195 6196 1513 3083

CONNECT 6198 6155

CONNECT 6199 6155

CONNECT 6200 6156

CONNECT 6201 6157

CONNECT 6202 6157

CONNECT 6203 6158

CONNECT 6204 6158

CONNECT 6205 6163

CONNECT 6206 6163

CONNECT 6207 6163

CONNECT 6208 6164

CONECT 6209 6164

CONECT 6210 6165

CONECT 6211 6165

CONECT 6212 6173

CONECT 6213 6173

CONECT 6214 6173

CONECT 6215 6174

CONECT 6216 6174

CONECT 6217 6175

CONECT 6218 6175

CONECT 6219 6175

CONECT 6220 6180

CONECT 6221 6180

CONECT 6222 6180

CONECT 6223 6181

CONECT 6224 6181

CONNECT 6225 6182

CONNECT 6226 6182

CONNECT 6227 6182

CONNECT 6228 6187

CONNECT 6229 6187

CONNECT 6230 6187

CONNECT 6231 6188

CONNECT 6232 6188

CONNECT 6233 6189

CONNECT 6234 6189

CONNECT 6235 6236 6240 6254 6254

CONNECT 6236 6235 6258 6237 6255

CONNECT 6237 6236 6259 6238 6256

CONNECT 6238 6237 6239 6257 6257

CONNECT 6239 6238 6260 6240 6243

CONNECT 6240 6235 6239 6261 6244

CONNECT 6241 6262 6263 6264 6255

CONNECT 6242 6265 6266 6267 6256

CONNECT 6243 6239 6268 6269 6270

CONNECT 6244 6240 6271 6272 6245

CONNECT 6245 6244 6273 6246 6246

CONNECT 6246 6245 6245 6247 6248

CONNECT 6247 6246 6274 6275 6276

CONNECT 6248 6246 6277 6278 6249

CONNECT 6249 6248 6279 6280 6250

CONNECT 6250 6249 6281 6251 6251

CONNECT 6251 6250 6250 6252 6253

CONNECT 6252 6251 6282 6283 6284

CONNECT 6253 6251 6285 6286 6287

CONNECT 6254 6235 6235

CONNECT 6255 6236 6241

CONECT 6256 6237 6242

CONECT 6257 6238 6238

CONECT 6258 6236

CONECT 6259 6237

CONECT 6260 6239

CONECT 6261 6240

CONECT 6262 6241

CONECT 6263 6241

CONECT 6264 6241

CONECT 6265 6242

CONECT 6266 6242

CONECT 6267 6242

CONECT 6268 6243

CONECT 6269 6243

CONECT 6270 6243

CONNECT 6271 6244

CONNECT 6272 6244

CONNECT 6273 6245

CONNECT 6274 6247

CONNECT 6275 6247

CONNECT 6276 6247

CONNECT 6277 6248

CONNECT 6278 6248

CONNECT 6279 6249

CONNECT 6280 6249

CONNECT 6281 6250

CONNECT 6282 6252

CONNECT 6283 6252

CONNECT 6284 6252

CONNECT 6285 6253

CONNECT 6286 6253

CONNECT 6287 6253

CONNECT 6288 6289 6293 6293 6307

CONNECT 6289 6288 6311 6290 6308

CONNECT 6290 6289 6312 6291 6309

CONNECT 6291 6290 6292 6310 6310

CONNECT 6292 6291 6313 6293 6296

CONNECT 6293 6288 6288 6292 6297

CONNECT 6294 6314 6315 6316 6308

CONNECT 6295 6317 6318 6319 6309

CONNECT 6296 6292 6320 6321 6322

CONNECT 6297 6293 6323 6324 6298

CONNECT 6298 6297 6325 6299 6299

CONNECT 6299 6298 6298 6300 6301

CONNECT 6300 6299 6326 6327 6328

CONNECT 6301 6299 6329 6330 6302

CONNECT 6302 6301 6331 6332 6303

CONNECT 6303 6302 6333 6304 6304

CONNECT 6304 6303 6303 6305 6306

CONNECT 6305 6304 6334 6335 6336

CONNECT 6306 6304 6337 6338 6339

CONNECT 6307 6288 6340

CONNECT 6308 6289 6294

CONNECT 6309 6290 6295

CONNECT 6310 6291 6291

CONNECT 6311 6289

CONNECT 6312 6290

CONNECT 6313 6292

CONNECT 6314 6294

CONNECT 6315 6294

CONNECT 6316 6294

CONNECT 6317 6295

CONNECT 6318 6295

CONNECT 6319 6295

CONNECT 6320 6296

CONNECT 6321 6296

CONNECT 6322 6296

CONNECT 6323 6297

CONNECT 6324 6297

CONNECT 6325 6298

CONNECT 6326 6300

CONNECT 6327 6300

CONNECT 6328 6300

CONNECT 6329 6301

CONNECT 6330 6301

CONNECT 6331 6302

CONNECT 6332 6302

CONNECT 6333 6303

CONNECT 6334 6305

CONNECT 6335 6305

CONNECT 6336 6305

CONNECT 6337 6306

CONNECT 6338 6306

CONNECT 6339 6306

CONNECT 6340 6307

END