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REMARK 4 XXXX COMPLIES WITH FORMAT V. 2.0
COMPND W:\zeph\SINDHU\DLG FILES\mutant5drug3\complex53.pdbqt
AUTHOR GENERATED BY OPEN BABEL 2.3.1
ATOM 1 N VAL 1 49.342 80.515 8.408 1.00 0.00 N
ATOM 2 HN1 VAL 1 49.642 80.757 7.464 1.00 0.00 H
ATOM 3 HN2 VAL 1 48.426 80.905 8.631 1.00 0.00 H
ATOM 4 HN3 VAL 1 49.107 79.526 8.494 1.00 0.00 H
ATOM 5 CA VAL 1 50.373 80.927 9.384 1.00 0.00 C
ATOM 6 CB VAL 1 50.613 82.405 9.288 1.00 0.00 C
ATOM 7 CG1 VAL 1 51.198 82.706 7.896 1.00 0.00 C
ATOM 8 CG2 VAL 1 49.293 83.140 9.573 1.00 0.00 C
ATOM 9 C VAL 1 49.935 80.574 10.761 1.00 0.00 C
ATOM 10 O VAL 1 49.431 79.481 10.974 1.00 0.00 O
ATOM 11 N SER 2 50.059 81.491 11.734 1.00 0.00 N
ATOM 12 HN SER 2 50.379 82.432 11.505 1.00 0.00 H
ATOM 13 CA SER 2 49.744 81.156 13.094 1.00 0.00 C
ATOM 14 CB SER 2 49.887 82.359 14.039 1.00 0.00 C
ATOM 15 OG SER 2 49.003 83.398 13.645 1.00 0.00 O
ATOM 16 HG SER 2 49.091 84.142 14.229 1.00 0.00 H
ATOM 17 C SER 2 48.335 80.659 13.168 1.00 0.00 C
ATOM 18 O SER 2 48.022 79.795 13.985 1.00 0.00 O
ATOM 19 N VAL 3 47.437 81.169 12.305 1.00 0.00 N
ATOM 20 HN VAL 3 47.701 81.865 11.608 1.00 0.00 H
ATOM 21 CA VAL 3 46.095 80.687 12.413 1.00 0.00 C
ATOM 22 CB VAL 3 45.163 81.380 11.448 1.00 0.00 C
ATOM 23 CG1 VAL 3 45.044 82.851 11.865 1.00 0.00 C
ATOM 24 CG2 VAL 3 45.707 81.260 10.014 1.00 0.00 C
ATOM 25 C VAL 3 46.032 79.196 12.191 1.00 0.00 C
ATOM 26 O VAL 3 45.829 78.472 13.158 1.00 0.00 O
ATOM 27 N PHE 4 46.225 78.669 10.956 1.00 0.00 N
ATOM 28 HN PHE 4 46.448 79.277 10.168 1.00 0.00 H
ATOM 29 CA PHE 4 46.113 77.241 10.762 1.00 0.00 C
ATOM 30 CB PHE 4 45.734 76.796 9.332 1.00 0.00 C
ATOM 31 CG PHE 4 46.806 77.098 8.345 1.00 0.00 C
ATOM 32 CD1 PHE 4 47.897 76.269 8.224 1.00 0.00 C
ATOM 33 CD2 PHE 4 46.703 78.190 7.515 1.00 0.00 C
ATOM 34 CE1 PHE 4 48.880 76.538 7.301 1.00 0.00 C
ATOM 35 CE2 PHE 4 47.685 78.463 6.593 1.00 0.00 C
ATOM 36 CZ PHE 4 48.777 77.638 6.485 1.00 0.00 C
ATOM 37 C PHE 4 47.345 76.513 11.215 1.00 0.00 C
ATOM 38 O PHE 4 47.265 75.456 11.837 1.00 0.00 O
ATOM 39 N SER 5 48.526 77.067 10.880 1.00 0.00 N
ATOM 40 HN SER 5 48.504 77.951 10.371 1.00 0.00 H
ATOM 41 CA SER 5 49.816 76.509 11.184 1.00 0.00 C
ATOM 42 CB SER 5 50.980 77.271 10.524 1.00 0.00 C
ATOM 43 OG SER 5 50.881 77.192 9.111 1.00 0.00 O
ATOM 44 HG SER 5 51.599 77.662 8.704 1.00 0.00 H
ATOM 45 C SER 5 50.093 76.492 12.656 1.00 0.00 C
ATOM 46 O SER 5 50.372 75.427 13.196 1.00 0.00 O
ATOM 47 N MET 6 50.007 77.644 13.359 1.00 0.00 N
ATOM 48 HN MET 6 49.741 78.513 12.896 1.00 0.00 H
ATOM 49 CA MET 6 50.296 77.627 14.771 1.00 0.00 C
ATOM 50 CB MET 6 50.148 78.979 15.496 1.00 0.00 C
ATOM 51 CG MET 6 50.657 78.932 16.940 1.00 0.00 C
ATOM 52 SD MET 6 52.468 78.994 17.096 1.00 0.00 S
ATOM 53 CE MET 6 52.614 77.799 18.453 1.00 0.00 C
ATOM 54 C MET 6 49.278 76.711 15.333 1.00 0.00 C
ATOM 55 O MET 6 49.553 75.944 16.254 1.00 0.00 O
ATOM 56 N PHE 7 48.082 76.741 14.719 1.00 0.00 N
ATOM 57 HN PHE 7 47.941 77.369 13.928 1.00 0.00 H
ATOM 58 CA PHE 7 47.006 75.909 15.156 1.00 0.00 C
ATOM 59 CB PHE 7 45.735 76.011 14.301 1.00 0.00 C
ATOM 60 CG PHE 7 44.643 75.282 15.001 1.00 0.00 C
ATOM 61 CD1 PHE 7 44.485 73.926 14.834 1.00 0.00 C
ATOM 62 CD2 PHE 7 43.776 75.960 15.826 1.00 0.00 C
ATOM 63 CE1 PHE 7 43.476 73.254 15.481 1.00 0.00 C
ATOM 64 CE2 PHE 7 42.767 75.292 16.476 1.00 0.00 C
ATOM 65 CZ PHE 7 42.614 73.937 16.304 1.00 0.00 C
ATOM 66 C PHE 7 47.460 74.497 15.039 1.00 0.00 C
ATOM 67 O PHE 7 47.180 73.680 15.914 1.00 0.00 O
ATOM 68 N ARG 8 48.147 74.145 13.937 1.00 0.00 N
ATOM 69 HN ARG 8 48.349 74.814 13.194 1.00 0.00 H
ATOM 70 CA ARG 8 48.579 72.785 13.862 1.00 0.00 C
ATOM 71 CB ARG 8 48.087 72.089 12.588 1.00 0.00 C

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ATOM	72	CG	ARG	8	48.265	70.574	12.587	1.00	0.00	C
ATOM	73	CD	ARG	8	47.596	69.922	11.379	1.00	0.00	C
ATOM	74	NE	ARG	8	48.113	70.637	10.180	1.00	0.00	N
ATOM	75	HE	ARG	8	48.995	71.146	10.233	1.00	0.00	H
ATOM	76	CZ	ARG	8	47.411	70.614	9.009	1.00	0.00	C
ATOM	77	NH1	ARG	8	46.238	69.924	8.929	1.00	0.00	N
ATOM	78	1HH1	ARG	8	45.714	69.907	8.054	1.00	0.00	H
ATOM	79	2HH1	ARG	8	45.883	69.423	9.744	1.00	0.00	H
ATOM	80	NH2	ARG	8	47.886	71.284	7.919	1.00	0.00	N
ATOM	81	1HH2	ARG	8	47.362	71.267	7.044	1.00	0.00	H
ATOM	82	2HH2	ARG	8	48.764	71.800	7.979	1.00	0.00	H
ATOM	83	C	ARG	8	50.074	72.800	13.867	1.00	0.00	C
ATOM	84	O	ARG	8	50.705	72.707	12.816	1.00	0.00	O
ATOM	85	N	TYR	9	50.678	72.878	15.073	1.00	0.00	N
ATOM	86	HN	TYR	9	50.101	72.879	15.914	1.00	0.00	H
ATOM	87	CA	TYR	9	52.105	72.959	15.209	1.00	0.00	C
ATOM	88	CB	TYR	9	52.594	74.227	15.941	1.00	0.00	C
ATOM	89	CG	TYR	9	52.370	74.074	17.410	1.00	0.00	C
ATOM	90	CD1	TYR	9	51.104	74.041	17.948	1.00	0.00	C
ATOM	91	CD2	TYR	9	53.449	73.996	18.262	1.00	0.00	C
ATOM	92	CE1	TYR	9	50.918	73.907	19.305	1.00	0.00	C
ATOM	93	CE2	TYR	9	53.272	73.862	19.620	1.00	0.00	C
ATOM	94	CZ	TYR	9	52.003	73.815	20.145	1.00	0.00	C
ATOM	95	OH	TYR	9	51.814	73.677	21.537	1.00	0.00	O
ATOM	96	HH	TYR	9	52.564	73.613	22.117	1.00	0.00	H
ATOM	97	C	TYR	9	52.499	71.780	16.052	1.00	0.00	C
ATOM	98	O	TYR	9	51.673	70.915	16.331	1.00	0.00	O
ATOM	99	N	SER	10	53.784	71.701	16.453	1.00	0.00	N
ATOM	100	HN	SER	10	54.430	72.424	16.137	1.00	0.00	H
ATOM	101	CA	SER	10	54.299	70.655	17.302	1.00	0.00	C
ATOM	102	CB	SER	10	53.885	70.820	18.777	1.00	0.00	C
ATOM	103	OG	SER	10	52.474	70.745	18.910	1.00	0.00	O
ATOM	104	HG	SER	10	52.219	70.847	19.819	1.00	0.00	H
ATOM	105	C	SER	10	53.962	69.249	16.854	1.00	0.00	C
ATOM	106	O	SER	10	53.069	68.623	17.424	1.00	0.00	O
ATOM	107	N	ASN	11	54.633	68.702	15.799	1.00	0.00	N
ATOM	108	HN	ASN	11	55.330	69.228	15.271	1.00	0.00	H
ATOM	109	CA	ASN	11	54.298	67.330	15.472	1.00	0.00	C
ATOM	110	CB	ASN	11	53.066	67.221	14.550	1.00	0.00	C
ATOM	111	CG	ASN	11	51.930	68.139	14.978	1.00	0.00	C
ATOM	112	OD1	ASN	11	51.795	69.238	14.443	1.00	0.00	O
ATOM	113	ND2	ASN	11	51.077	67.683	15.933	1.00	0.00	N
ATOM	114	1HD2	ASN	11	51.189	66.771	16.377	1.00	0.00	H
ATOM	115	2HD2	ASN	11	50.316	68.298	16.220	1.00	0.00	H
ATOM	116	C	ASN	11	55.337	66.696	14.577	1.00	0.00	C
ATOM	117	O	ASN	11	55.158	66.733	13.360	1.00	0.00	O
ATOM	118	N	TRP	12	56.447	66.102	15.072	1.00	0.00	N
ATOM	119	HN	TRP	12	56.701	66.112	16.060	1.00	0.00	H
ATOM	120	CA	TRP	12	57.231	65.454	14.053	1.00	0.00	C
ATOM	121	CB	TRP	12	58.649	65.065	14.495	1.00	0.00	C
ATOM	122	CG	TRP	12	59.450	64.515	13.342	1.00	0.00	C
ATOM	123	CD2	TRP	12	60.834	64.137	13.413	1.00	0.00	C
ATOM	124	CD1	TRP	12	59.052	64.293	12.058	1.00	0.00	C
ATOM	125	NE1	TRP	12	60.103	63.808	11.317	1.00	0.00	N
ATOM	126	HE1	TRP	12	60.073	63.565	10.327	1.00	0.00	H
ATOM	127	CE2	TRP	12	61.205	63.705	12.140	1.00	0.00	C
ATOM	128	CE3	TRP	12	61.719	64.152	14.449	1.00	0.00	C
ATOM	129	CZ2	TRP	12	62.478	63.278	11.887	1.00	0.00	C
ATOM	130	CZ3	TRP	12	63.001	63.718	14.193	1.00	0.00	C
ATOM	131	CH2	TRP	12	63.372	63.289	12.935	1.00	0.00	C
ATOM	132	C	TRP	12	56.538	64.197	13.604	1.00	0.00	C
ATOM	133	O	TRP	12	55.891	64.152	12.559	1.00	0.00	O
ATOM	134	N	LEU	13	56.553	63.174	14.484	1.00	0.00	N
ATOM	135	HN	LEU	13	56.978	63.333	15.397	1.00	0.00	H
ATOM	136	CA	LEU	13	56.005	61.874	14.210	1.00	0.00	C
ATOM	137	CB	LEU	13	56.147	60.882	15.375	1.00	0.00	C
ATOM	138	CG	LEU	13	57.585	60.665	15.869	1.00	0.00	C
ATOM	139	CD1	LEU	13	58.133	61.925	16.557	1.00	0.00	C
ATOM	140	CD2	LEU	13	57.668	59.423	16.763	1.00	0.00	C
ATOM	141	C	LEU	13	54.545	62.082	14.060	1.00	0.00	C
ATOM	142	O	LEU	13	53.844	61.304	13.415	1.00	0.00	O
ATOM	143	N	ASP	14	54.045	63.115	14.752	1.00	0.00	N
ATOM	144	HN	ASP	14	54.669	63.704	15.304	1.00	0.00	H
ATOM	145	CA	ASP	14	52.647	63.398	14.723	1.00	0.00	C

ATOM	146	CB	ASP	14	52.262	64.593	15.613	1.00	0.00	C
ATOM	147	CG	ASP	14	52.363	64.178	17.076	1.00	0.00	C
ATOM	148	OD1	ASP	14	51.716	63.161	17.441	1.00	0.00	O
ATOM	149	OD2	ASP	14	53.076	64.872	17.850	1.00	0.00	O
ATOM	150	C	ASP	14	52.236	63.739	13.325	1.00	0.00	C
ATOM	151	O	ASP	14	51.354	63.105	12.748	1.00	0.00	O
ATOM	152	N	LYS	15	52.926	64.707	12.700	1.00	0.00	N
ATOM	153	HN	LYS	15	53.741	65.130	13.143	1.00	0.00	H
ATOM	154	CA	LYS	15	52.500	65.136	11.402	1.00	0.00	C
ATOM	155	CB	LYS	15	53.318	66.322	10.863	1.00	0.00	C
ATOM	156	CG	LYS	15	52.617	67.089	9.738	1.00	0.00	C
ATOM	157	CD	LYS	15	53.185	68.497	9.540	1.00	0.00	C
ATOM	158	CE	LYS	15	52.359	69.391	8.611	1.00	0.00	C
ATOM	159	NZ	LYS	15	52.712	69.124	7.200	1.00	0.00	N
ATOM	160	HZ1	LYS	15	52.162	69.720	6.581	1.00	0.00	H
ATOM	161	HZ2	LYS	15	52.616	68.136	6.963	1.00	0.00	H
ATOM	162	HZ3	LYS	15	53.713	69.222	7.032	1.00	0.00	H
ATOM	163	C	LYS	15	52.574	63.978	10.446	1.00	0.00	C
ATOM	164	O	LYS	15	51.742	63.865	9.548	1.00	0.00	O
ATOM	165	N	LEU	16	53.574	63.086	10.598	1.00	0.00	N
ATOM	166	HN	LEU	16	54.268	63.213	11.334	1.00	0.00	H
ATOM	167	CA	LEU	16	53.654	61.952	9.712	1.00	0.00	C
ATOM	168	CB	LEU	16	54.795	60.963	10.019	1.00	0.00	C
ATOM	169	CG	LEU	16	56.229	61.388	9.662	1.00	0.00	C
ATOM	170	CD1	LEU	16	56.759	62.520	10.547	1.00	0.00	C
ATOM	171	CD2	LEU	16	57.150	60.160	9.671	1.00	0.00	C
ATOM	172	C	LEU	16	52.444	61.095	9.870	1.00	0.00	C
ATOM	173	O	LEU	16	51.794	60.724	8.893	1.00	0.00	O
ATOM	174	N	TYR	17	52.092	60.774	11.124	1.00	0.00	N
ATOM	175	HN	TYR	17	52.585	61.178	11.921	1.00	0.00	H
ATOM	176	CA	TYR	17	51.014	59.856	11.324	1.00	0.00	C
ATOM	177	CB	TYR	17	50.755	59.493	12.798	1.00	0.00	C
ATOM	178	CG	TYR	17	49.874	58.294	12.739	1.00	0.00	C
ATOM	179	CD1	TYR	17	50.429	57.064	12.464	1.00	0.00	C
ATOM	180	CD2	TYR	17	48.516	58.382	12.945	1.00	0.00	C
ATOM	181	CE1	TYR	17	49.648	55.937	12.394	1.00	0.00	C
ATOM	182	CE2	TYR	17	47.729	57.255	12.876	1.00	0.00	C
ATOM	183	CZ	TYR	17	48.294	56.032	12.600	1.00	0.00	C
ATOM	184	OH	TYR	17	47.489	54.875	12.527	1.00	0.00	O
ATOM	185	HH	TYR	17	47.879	54.030	12.336	1.00	0.00	H
ATOM	186	C	TYR	17	49.787	60.497	10.765	1.00	0.00	C
ATOM	187	O	TYR	17	48.915	59.826	10.215	1.00	0.00	O
ATOM	188	N	MET	18	49.691	61.831	10.901	1.00	0.00	N
ATOM	189	HN	MET	18	50.458	62.347	11.332	1.00	0.00	H
ATOM	190	CA	MET	18	48.531	62.541	10.451	1.00	0.00	C
ATOM	191	CB	MET	18	48.697	64.056	10.660	1.00	0.00	C
ATOM	192	CG	MET	18	47.509	64.899	10.193	1.00	0.00	C
ATOM	193	SD	MET	18	47.722	66.686	10.446	1.00	0.00	S
ATOM	194	CE	MET	18	47.732	66.548	12.256	1.00	0.00	C
ATOM	195	C	MET	18	48.302	62.324	8.982	1.00	0.00	C
ATOM	196	O	MET	18	47.228	61.886	8.572	1.00	0.00	O
ATOM	197	N	VAL	19	49.331	62.549	8.147	1.00	0.00	N
ATOM	198	HN	VAL	19	50.248	62.787	8.526	1.00	0.00	H
ATOM	199	CA	VAL	19	49.149	62.457	6.728	1.00	0.00	C
ATOM	200	CB	VAL	19	50.406	62.749	5.960	1.00	0.00	C
ATOM	201	CG1	VAL	19	50.828	64.199	6.248	1.00	0.00	C
ATOM	202	CG2	VAL	19	51.473	61.704	6.329	1.00	0.00	C
ATOM	203	C	VAL	19	48.736	61.063	6.395	1.00	0.00	C
ATOM	204	O	VAL	19	47.927	60.842	5.494	1.00	0.00	O
ATOM	205	N	VAL	20	49.299	60.080	7.119	1.00	0.00	N
ATOM	206	HN	VAL	20	49.946	60.314	7.872	1.00	0.00	H
ATOM	207	CA	VAL	20	48.998	58.708	6.842	1.00	0.00	C
ATOM	208	CB	VAL	20	49.631	57.763	7.823	1.00	0.00	C
ATOM	209	CG1	VAL	20	49.050	56.360	7.579	1.00	0.00	C
ATOM	210	CG2	VAL	20	51.161	57.834	7.689	1.00	0.00	C
ATOM	211	C	VAL	20	47.526	58.489	6.982	1.00	0.00	C
ATOM	212	O	VAL	20	46.865	58.012	6.060	1.00	0.00	O
ATOM	213	N	GLY	21	46.966	58.897	8.132	1.00	0.00	N
ATOM	214	HN	GLY	21	47.536	59.406	8.808	1.00	0.00	H
ATOM	215	CA	GLY	21	45.589	58.637	8.436	1.00	0.00	C
ATOM	216	C	GLY	21	44.710	59.284	7.420	1.00	0.00	C
ATOM	217	O	GLY	21	43.667	58.739	7.058	1.00	0.00	O
ATOM	218	N	THR	22	45.098	60.476	6.940	1.00	0.00	N
ATOM	219	HN	THR	22	45.977	60.894	7.245	1.00	0.00	H

ATOM	220	CA	THR	22	44.265	61.153	5.996	1.00	0.00	C
ATOM	221	CB	THR	22	44.868	62.434	5.505	1.00	0.00	C
ATOM	222	OG1	THR	22	45.125	63.298	6.602	1.00	0.00	O
ATOM	223	HG1	THR	22	45.738	62.882	7.196	1.00	0.00	H
ATOM	224	CG2	THR	22	43.877	63.107	4.544	1.00	0.00	C
ATOM	225	C	THR	22	44.099	60.247	4.821	1.00	0.00	C
ATOM	226	O	THR	22	42.985	60.022	4.354	1.00	0.00	O
ATOM	227	N	LEU	23	45.202	59.622	4.380	1.00	0.00	N
ATOM	228	HN	LEU	23	46.076	59.723	4.896	1.00	0.00	H
ATOM	229	CA	LEU	23	45.173	58.816	3.198	1.00	0.00	C
ATOM	230	CB	LEU	23	46.526	58.130	2.947	1.00	0.00	C
ATOM	231	CG	LEU	23	46.729	57.485	1.556	1.00	0.00	C
ATOM	232	CD1	LEU	23	48.048	56.700	1.541	1.00	0.00	C
ATOM	233	CD2	LEU	23	45.537	56.652	1.053	1.00	0.00	C
ATOM	234	C	LEU	23	44.160	57.735	3.398	1.00	0.00	C
ATOM	235	O	LEU	23	43.349	57.472	2.510	1.00	0.00	O
ATOM	236	N	ALA	24	44.153	57.110	4.590	1.00	0.00	N
ATOM	237	HN	ALA	24	44.784	57.420	5.329	1.00	0.00	H
ATOM	238	CA	ALA	24	43.263	56.011	4.827	1.00	0.00	C
ATOM	239	CB	ALA	24	43.321	55.492	6.272	1.00	0.00	C
ATOM	240	C	ALA	24	41.876	56.508	4.600	1.00	0.00	C
ATOM	241	O	ALA	24	41.046	55.815	4.013	1.00	0.00	O
ATOM	242	N	ALA	25	41.599	57.748	5.031	1.00	0.00	N
ATOM	243	HN	ALA	25	42.328	58.316	5.463	1.00	0.00	H
ATOM	244	CA	ALA	25	40.273	58.269	4.881	1.00	0.00	C
ATOM	245	CB	ALA	25	40.133	59.703	5.417	1.00	0.00	C
ATOM	246	C	ALA	25	39.923	58.291	3.426	1.00	0.00	C
ATOM	247	O	ALA	25	38.827	57.895	3.029	1.00	0.00	O
ATOM	248	N	ILE	26	40.878	58.706	2.582	1.00	0.00	N
ATOM	249	HN	ILE	26	41.811	58.915	2.938	1.00	0.00	H
ATOM	250	CA	ILE	26	40.602	58.859	1.186	1.00	0.00	C
ATOM	251	CB	ILE	26	41.846	59.299	0.487	1.00	0.00	C
ATOM	252	CG1	ILE	26	42.300	60.634	1.096	1.00	0.00	C
ATOM	253	CG2	ILE	26	41.587	59.342	-1.027	1.00	0.00	C
ATOM	254	CD1	ILE	26	43.775	60.930	0.869	1.00	0.00	C
ATOM	255	C	ILE	26	40.170	57.543	0.605	1.00	0.00	C
ATOM	256	O	ILE	26	39.087	57.433	0.033	1.00	0.00	O
ATOM	257	N	ILE	27	40.956	56.479	0.826	1.00	0.00	N
ATOM	258	HN	ILE	27	41.763	56.572	1.443	1.00	0.00	H
ATOM	259	CA	ILE	27	40.682	55.210	0.209	1.00	0.00	C
ATOM	260	CB	ILE	27	41.679	54.159	0.593	1.00	0.00	C
ATOM	261	CG1	ILE	27	41.595	53.846	2.097	1.00	0.00	C
ATOM	262	CG2	ILE	27	43.060	54.664	0.149	1.00	0.00	C
ATOM	263	CD1	ILE	27	42.371	52.593	2.500	1.00	0.00	C
ATOM	264	C	ILE	27	39.334	54.729	0.648	1.00	0.00	C
ATOM	265	O	ILE	27	38.589	54.145	-0.137	1.00	0.00	O
ATOM	266	N	HIS	28	38.996	54.959	1.928	1.00	0.00	N
ATOM	267	HN	HIS	28	39.645	55.483	2.515	1.00	0.00	H
ATOM	268	CA	HIS	28	37.765	54.503	2.510	1.00	0.00	C
ATOM	269	ND1	HIS	28	36.104	53.077	4.762	1.00	0.00	N
ATOM	270	HD1	HIS	28	36.556	52.301	4.279	1.00	0.00	H
ATOM	271	CG	HIS	28	36.491	54.398	4.736	1.00	0.00	C
ATOM	272	CB	HIS	28	37.685	54.914	3.993	1.00	0.00	C
ATOM	273	NE2	HIS	28	34.661	54.187	6.039	1.00	0.00	N
ATOM	274	HE2	HIS	28	33.878	54.404	6.656	1.00	0.00	H
ATOM	275	CD2	HIS	28	35.598	55.061	5.522	1.00	0.00	C
ATOM	276	CE1	HIS	28	35.006	53.008	5.555	1.00	0.00	C
ATOM	277	C	HIS	28	36.578	55.073	1.774	1.00	0.00	C
ATOM	278	O	HIS	28	35.650	54.339	1.428	1.00	0.00	O
ATOM	279	N	GLY	29	36.581	56.391	1.487	1.00	0.00	N
ATOM	280	HN	GLY	29	37.387	56.965	1.735	1.00	0.00	H
ATOM	281	CA	GLY	29	35.446	56.989	0.831	1.00	0.00	C
ATOM	282	C	GLY	29	35.293	56.345	-0.502	1.00	0.00	C
ATOM	283	O	GLY	29	34.187	56.025	-0.933	1.00	0.00	O
ATOM	284	N	ALA	30	36.425	56.102	-1.177	1.00	0.00	N
ATOM	285	HN	ALA	30	37.319	56.347	-0.753	1.00	0.00	H
ATOM	286	CA	ALA	30	36.410	55.507	-2.478	1.00	0.00	C
ATOM	287	CB	ALA	30	37.821	55.255	-3.035	1.00	0.00	C
ATOM	288	C	ALA	30	35.732	54.180	-2.348	1.00	0.00	C
ATOM	289	O	ALA	30	35.065	53.715	-3.272	1.00	0.00	O
ATOM	290	N	GLY	31	35.889	53.522	-1.187	1.00	0.00	N
ATOM	291	HN	GLY	31	36.406	53.953	-0.421	1.00	0.00	H
ATOM	292	CA	GLY	31	35.327	52.212	-1.028	1.00	0.00	C
ATOM	293	C	GLY	31	33.838	52.247	-1.242	1.00	0.00	C

ATOM	294	O	GLY	31	33.293	51.390	-1.936	1.00	0.00	O
ATOM	295	N	LEU	32	33.129	53.247	-0.687	1.00	0.00	N
ATOM	296	HN	LEU	32	33.607	54.007	-0.204	1.00	0.00	H
ATOM	297	CA	LEU	32	31.690	53.238	-0.779	1.00	0.00	C
ATOM	298	CB	LEU	32	31.016	54.395	-0.018	1.00	0.00	C
ATOM	299	CG	LEU	32	31.081	54.246	1.514	1.00	0.00	C
ATOM	300	CD1	LEU	32	30.304	53.000	1.966	1.00	0.00	C
ATOM	301	CD2	LEU	32	32.524	54.276	2.043	1.00	0.00	C
ATOM	302	C	LEU	32	31.215	53.268	-2.204	1.00	0.00	C
ATOM	303	O	LEU	32	30.329	52.488	-2.557	1.00	0.00	O
ATOM	304	N	PRO	33	31.709	54.122	-3.050	1.00	0.00	N
ATOM	305	CA	PRO	33	31.253	54.091	-4.411	1.00	0.00	C
ATOM	306	CD	PRO	33	32.045	55.471	-2.654	1.00	0.00	C
ATOM	307	CB	PRO	33	31.708	55.407	-5.042	1.00	0.00	C
ATOM	308	CG	PRO	33	32.559	56.093	-3.955	1.00	0.00	C
ATOM	309	C	PRO	33	31.690	52.894	-5.183	1.00	0.00	C
ATOM	310	O	PRO	33	30.952	52.452	-6.063	1.00	0.00	O
ATOM	311	N	LEU	34	32.879	52.347	-4.882	1.00	0.00	N
ATOM	312	HN	LEU	34	33.456	52.721	-4.129	1.00	0.00	H
ATOM	313	CA	LEU	34	33.309	51.221	-5.655	1.00	0.00	C
ATOM	314	CB	LEU	34	34.712	50.703	-5.269	1.00	0.00	C
ATOM	315	CG	LEU	34	35.339	49.721	-6.292	1.00	0.00	C
ATOM	316	CD1	LEU	34	36.717	49.220	-5.829	1.00	0.00	C
ATOM	317	CD2	LEU	34	34.396	48.571	-6.677	1.00	0.00	C
ATOM	318	C	LEU	34	32.295	50.163	-5.362	1.00	0.00	C
ATOM	319	O	LEU	34	31.835	49.446	-6.251	1.00	0.00	O
ATOM	320	N	MET	35	31.856	50.119	-4.092	1.00	0.00	N
ATOM	321	HN	MET	35	32.213	50.802	-3.424	1.00	0.00	H
ATOM	322	CA	MET	35	30.907	49.148	-3.647	1.00	0.00	C
ATOM	323	CB	MET	35	30.446	49.410	-2.206	1.00	0.00	C
ATOM	324	CG	MET	35	31.502	49.079	-1.157	1.00	0.00	C
ATOM	325	SD	MET	35	31.582	47.313	-0.733	1.00	0.00	S
ATOM	326	CE	MET	35	30.392	47.408	0.637	1.00	0.00	C
ATOM	327	C	MET	35	29.697	49.282	-4.513	1.00	0.00	C
ATOM	328	O	MET	35	29.085	48.283	-4.888	1.00	0.00	O
ATOM	329	N	MET	36	29.304	50.522	-4.856	1.00	0.00	N
ATOM	330	HN	MET	36	29.807	51.346	-4.526	1.00	0.00	H
ATOM	331	CA	MET	36	28.152	50.644	-5.702	1.00	0.00	C
ATOM	332	CB	MET	36	27.731	52.094	-5.965	1.00	0.00	C
ATOM	333	CG	MET	36	26.711	52.648	-4.965	1.00	0.00	C
ATOM	334	SD	MET	36	27.247	52.777	-3.236	1.00	0.00	S
ATOM	335	CE	MET	36	26.840	51.058	-2.811	1.00	0.00	C
ATOM	336	C	MET	36	28.383	49.960	-7.017	1.00	0.00	C
ATOM	337	O	MET	36	27.584	49.112	-7.412	1.00	0.00	O
ATOM	338	N	LEU	37	29.528	50.220	-7.680	1.00	0.00	N
ATOM	339	HN	LEU	37	30.239	50.813	-7.251	1.00	0.00	H
ATOM	340	CA	LEU	37	29.753	49.666	-8.990	1.00	0.00	C
ATOM	341	CB	LEU	37	31.161	49.948	-9.540	1.00	0.00	C
ATOM	342	CG	LEU	37	31.503	49.107	-10.790	1.00	0.00	C
ATOM	343	CD1	LEU	37	30.555	49.404	-11.960	1.00	0.00	C
ATOM	344	CD2	LEU	37	32.987	49.241	-11.167	1.00	0.00	C
ATOM	345	C	LEU	37	29.641	48.176	-8.959	1.00	0.00	C
ATOM	346	O	LEU	37	28.972	47.589	-9.810	1.00	0.00	O
ATOM	347	N	VAL	38	30.260	47.523	-7.962	1.00	0.00	N
ATOM	348	HN	VAL	38	30.728	48.044	-7.221	1.00	0.00	H
ATOM	349	CA	VAL	38	30.259	46.090	-7.945	1.00	0.00	C
ATOM	350	CB	VAL	38	30.991	45.499	-6.775	1.00	0.00	C
ATOM	351	CG1	VAL	38	32.452	45.976	-6.830	1.00	0.00	C
ATOM	352	CG2	VAL	38	30.247	45.863	-5.481	1.00	0.00	C
ATOM	353	C	VAL	38	28.846	45.634	-7.866	1.00	0.00	C
ATOM	354	O	VAL	38	28.475	44.637	-8.482	1.00	0.00	O
ATOM	355	N	PHE	39	28.012	46.383	-7.126	1.00	0.00	N
ATOM	356	HN	PHE	39	28.362	47.222	-6.664	1.00	0.00	H
ATOM	357	CA	PHE	39	26.638	46.015	-6.979	1.00	0.00	C
ATOM	358	CB	PHE	39	25.844	47.048	-6.152	1.00	0.00	C
ATOM	359	CG	PHE	39	24.377	46.768	-6.208	1.00	0.00	C
ATOM	360	CD1	PHE	39	23.806	45.771	-5.450	1.00	0.00	C
ATOM	361	CD2	PHE	39	23.567	47.512	-7.036	1.00	0.00	C
ATOM	362	CE1	PHE	39	22.452	45.530	-5.515	1.00	0.00	C
ATOM	363	CE2	PHE	39	22.214	47.279	-7.105	1.00	0.00	C
ATOM	364	CZ	PHE	39	21.653	46.284	-6.341	1.00	0.00	C
ATOM	365	C	PHE	39	26.077	45.942	-8.361	1.00	0.00	C
ATOM	366	O	PHE	39	25.263	45.071	-8.658	1.00	0.00	O
ATOM	367	N	GLY	40	26.491	46.858	-9.252	1.00	0.00	N

ATOM	368	HN	GLY	40	27.176	47.564	-8.982	1.00	0.00	H
ATOM	369	CA	GLY	40	25.963	46.836	-10.586	1.00	0.00	C
ATOM	370	C	GLY	40	26.353	45.623	-11.379	1.00	0.00	C
ATOM	371	O	GLY	40	25.497	44.966	-11.965	1.00	0.00	O
ATOM	372	N	GLU	41	27.648	45.263	-11.402	1.00	0.00	N
ATOM	373	HN	GLU	41	28.323	45.748	-10.811	1.00	0.00	H
ATOM	374	CA	GLU	41	28.082	44.192	-12.261	1.00	0.00	C
ATOM	375	CB	GLU	41	29.601	43.953	-12.210	1.00	0.00	C
ATOM	376	CG	GLU	41	30.083	42.864	-13.174	1.00	0.00	C
ATOM	377	CD	GLU	41	30.089	43.407	-14.600	1.00	0.00	C
ATOM	378	OE1	GLU	41	30.512	44.578	-14.795	1.00	0.00	O
ATOM	379	OE2	GLU	41	29.685	42.645	-15.519	1.00	0.00	O
ATOM	380	C	GLU	41	27.410	42.928	-11.842	1.00	0.00	C
ATOM	381	O	GLU	41	27.049	42.090	-12.669	1.00	0.00	O
ATOM	382	N	MET	42	27.244	42.748	-10.523	1.00	0.00	N
ATOM	383	HN	MET	42	27.575	43.450	-9.861	1.00	0.00	H
ATOM	384	CA	MET	42	26.599	41.563	-10.056	1.00	0.00	C
ATOM	385	CB	MET	42	26.581	41.448	-8.519	1.00	0.00	C
ATOM	386	CG	MET	42	25.737	42.507	-7.806	1.00	0.00	C
ATOM	387	SD	MET	42	25.710	42.336	-5.996	1.00	0.00	S
ATOM	388	CE	MET	42	27.442	42.841	-5.792	1.00	0.00	C
ATOM	389	C	MET	42	25.192	41.609	-10.557	1.00	0.00	C
ATOM	390	O	MET	42	24.620	40.598	-10.958	1.00	0.00	O
ATOM	391	N	THR	43	24.600	42.815	-10.556	1.00	0.00	N
ATOM	392	HN	THR	43	25.135	43.625	-10.244	1.00	0.00	H
ATOM	393	CA	THR	43	23.243	43.004	-10.978	1.00	0.00	C
ATOM	394	CB	THR	43	22.780	44.423	-10.826	1.00	0.00	C
ATOM	395	OG1	THR	43	22.832	44.816	-9.464	1.00	0.00	O
ATOM	396	HG1	THR	43	22.539	45.714	-9.368	1.00	0.00	H
ATOM	397	CG2	THR	43	21.342	44.540	-11.354	1.00	0.00	C
ATOM	398	C	THR	43	23.094	42.668	-12.431	1.00	0.00	C
ATOM	399	O	THR	43	22.087	42.083	-12.827	1.00	0.00	O
ATOM	400	N	ASP	44	24.070	43.054	-13.277	1.00	0.00	N
ATOM	401	HN	ASP	44	24.903	43.519	-12.917	1.00	0.00	H
ATOM	402	CA	ASP	44	23.935	42.810	-14.688	1.00	0.00	C
ATOM	403	CB	ASP	44	25.054	43.431	-15.541	1.00	0.00	C
ATOM	404	CG	ASP	44	24.721	44.898	-15.772	1.00	0.00	C
ATOM	405	OD1	ASP	44	23.513	45.254	-15.733	1.00	0.00	O
ATOM	406	OD2	ASP	44	25.676	45.681	-16.013	1.00	0.00	O
ATOM	407	C	ASP	44	23.902	41.343	-14.979	1.00	0.00	C
ATOM	408	O	ASP	44	23.056	40.871	-15.739	1.00	0.00	O
ATOM	409	N	ILE	45	24.794	40.571	-14.343	1.00	0.00	N
ATOM	410	HN	ILE	45	25.431	40.988	-13.664	1.00	0.00	H
ATOM	411	CA	ILE	45	24.861	39.165	-14.608	1.00	0.00	C
ATOM	412	CB	ILE	45	25.924	38.475	-13.792	1.00	0.00	C
ATOM	413	CG1	ILE	45	26.286	37.125	-14.421	1.00	0.00	C
ATOM	414	CG2	ILE	45	25.458	38.377	-12.331	1.00	0.00	C
ATOM	415	CD1	ILE	45	27.047	37.280	-15.737	1.00	0.00	C
ATOM	416	C	ILE	45	23.512	38.620	-14.245	1.00	0.00	C
ATOM	417	O	ILE	45	22.994	37.694	-14.873	1.00	0.00	O
ATOM	418	N	PHE	46	22.911	39.222	-13.202	1.00	0.00	N
ATOM	419	HN	PHE	46	23.396	40.006	-12.766	1.00	0.00	H
ATOM	420	CA	PHE	46	21.640	38.843	-12.658	1.00	0.00	C
ATOM	421	CB	PHE	46	21.278	39.669	-11.407	1.00	0.00	C
ATOM	422	CG	PHE	46	20.131	39.019	-10.706	1.00	0.00	C
ATOM	423	CD1	PHE	46	20.353	37.957	-9.859	1.00	0.00	C
ATOM	424	CD2	PHE	46	18.841	39.467	-10.878	1.00	0.00	C
ATOM	425	CE1	PHE	46	19.311	37.349	-9.200	1.00	0.00	C
ATOM	426	CE2	PHE	46	17.793	38.864	-10.222	1.00	0.00	C
ATOM	427	CZ	PHE	46	18.027	37.801	-9.383	1.00	0.00	C
ATOM	428	C	PHE	46	20.562	39.051	-13.685	1.00	0.00	C
ATOM	429	O	PHE	46	19.611	38.272	-13.771	1.00	0.00	O
ATOM	430	N	ALA	47	20.651	40.152	-14.453	1.00	0.00	N
ATOM	431	HN	ALA	47	21.432	40.794	-14.317	1.00	0.00	H
ATOM	432	CA	ALA	47	19.670	40.443	-15.460	1.00	0.00	C
ATOM	433	CB	ALA	47	19.898	41.810	-16.130	1.00	0.00	C
ATOM	434	C	ALA	47	19.723	39.411	-16.542	1.00	0.00	C
ATOM	435	O	ALA	47	18.687	38.911	-16.972	1.00	0.00	O
ATOM	436	N	ASN	48	20.942	39.044	-16.987	1.00	0.00	N
ATOM	437	HN	ASN	48	21.768	39.420	-16.521	1.00	0.00	H
ATOM	438	CA	ASN	48	21.122	38.141	-18.095	1.00	0.00	C
ATOM	439	CB	ASN	48	22.610	37.894	-18.411	1.00	0.00	C
ATOM	440	CG	ASN	48	22.715	37.177	-19.750	1.00	0.00	C
ATOM	441	OD1	ASN	48	23.157	36.032	-19.831	1.00	0.00	O

ATOM	442	ND2	ASN	48	22.295	37.877	-20.837	1.00	0.00	N
ATOM	443	1HD2	ASN	48	22.365	37.397	-21.734	1.00	0.00	H
ATOM	444	2HD2	ASN	48	21.928	38.826	-20.770	1.00	0.00	H
ATOM	445	C	ASN	48	20.504	36.821	-17.759	1.00	0.00	C
ATOM	446	O	ASN	48	19.811	36.223	-18.583	1.00	0.00	O
ATOM	447	N	ALA	49	20.738	36.329	-16.529	1.00	0.00	N
ATOM	448	HN	ALA	49	21.312	36.860	-15.875	1.00	0.00	H
ATOM	449	CA	ALA	49	20.190	35.067	-16.127	1.00	0.00	C
ATOM	450	CB	ALA	49	20.598	34.653	-14.703	1.00	0.00	C
ATOM	451	C	ALA	49	18.701	35.181	-16.133	1.00	0.00	C
ATOM	452	O	ALA	49	17.989	34.258	-16.523	1.00	0.00	O
ATOM	453	N	GLY	50	18.188	36.325	-15.664	1.00	0.00	N
ATOM	454	HN	GLY	50	18.822	37.046	-15.320	1.00	0.00	H
ATOM	455	CA	GLY	50	16.776	36.568	-15.630	1.00	0.00	C
ATOM	456	C	GLY	50	16.258	36.662	-17.038	1.00	0.00	C
ATOM	457	O	GLY	50	15.084	36.419	-17.301	1.00	0.00	O
ATOM	458	N	ASN	51	17.104	37.121	-17.973	1.00	0.00	N
ATOM	459	HN	ASN	51	18.057	37.353	-17.692	1.00	0.00	H
ATOM	460	CA	ASN	51	16.736	37.302	-19.347	1.00	0.00	C
ATOM	461	CB	ASN	51	17.874	37.941	-20.163	1.00	0.00	C
ATOM	462	CG	ASN	51	17.432	38.037	-21.613	1.00	0.00	C
ATOM	463	OD1	ASN	51	17.404	37.038	-22.331	1.00	0.00	O
ATOM	464	ND2	ASN	51	17.073	39.270	-22.059	1.00	0.00	N
ATOM	465	1HD2	ASN	51	17.096	40.098	-21.464	1.00	0.00	H
ATOM	466	2HD2	ASN	51	16.776	39.334	-23.033	1.00	0.00	H
ATOM	467	C	ASN	51	16.431	35.975	-19.966	1.00	0.00	C
ATOM	468	O	ASN	51	15.494	35.840	-20.746	1.00	0.00	O
ATOM	469	N	LEU	52	17.271	34.961	-19.725	1.00	0.00	N
ATOM	470	HN	LEU	52	18.130	35.104	-19.194	1.00	0.00	H
ATOM	471	CA	LEU	52	16.926	33.670	-20.235	1.00	0.00	C
ATOM	472	CB	LEU	52	18.094	32.669	-20.201	1.00	0.00	C
ATOM	473	CG	LEU	52	19.241	32.990	-21.175	1.00	0.00	C
ATOM	474	CD1	LEU	52	20.361	31.940	-21.079	1.00	0.00	C
ATOM	475	CD2	LEU	52	18.716	33.159	-22.607	1.00	0.00	C
ATOM	476	C	LEU	52	15.836	33.061	-19.393	1.00	0.00	C
ATOM	477	O	LEU	52	14.957	32.359	-19.891	1.00	0.00	O
ATOM	478	N	GLU	53	15.971	33.227	-18.062	1.00	0.00	N
ATOM	479	HN	GLU	53	16.719	33.840	-17.738	1.00	0.00	H
ATOM	480	CA	GLU	53	15.139	32.605	-17.060	1.00	0.00	C
ATOM	481	CB	GLU	53	15.836	32.592	-15.694	1.00	0.00	C
ATOM	482	CG	GLU	53	15.007	31.938	-14.590	1.00	0.00	C
ATOM	483	CD	GLU	53	15.484	32.501	-13.259	1.00	0.00	C
ATOM	484	OE1	GLU	53	15.159	33.686	-12.975	1.00	0.00	O
ATOM	485	OE2	GLU	53	16.170	31.761	-12.508	1.00	0.00	O
ATOM	486	C	GLU	53	13.786	33.162	-16.730	1.00	0.00	C
ATOM	487	O	GLU	53	12.793	32.451	-16.861	1.00	0.00	O
ATOM	488	N	ASP	54	13.740	34.446	-16.295	1.00	0.00	N
ATOM	489	HN	ASP	54	14.598	34.986	-16.408	1.00	0.00	H
ATOM	490	CA	ASP	54	12.625	35.147	-15.690	1.00	0.00	C
ATOM	491	CB	ASP	54	11.798	36.009	-16.674	1.00	0.00	C
ATOM	492	CG	ASP	54	10.929	37.026	-15.937	1.00	0.00	C
ATOM	493	OD1	ASP	54	11.049	37.140	-14.690	1.00	0.00	O
ATOM	494	OD2	ASP	54	10.128	37.712	-16.626	1.00	0.00	O
ATOM	495	C	ASP	54	11.744	34.159	-14.979	1.00	0.00	C
ATOM	496	O	ASP	54	12.203	33.120	-14.504	1.00	0.00	O
ATOM	497	N	LEU	55	10.459	34.501	-14.770	1.00	0.00	N
ATOM	498	HN	LEU	55	10.111	35.440	-14.965	1.00	0.00	H
ATOM	499	CA	LEU	55	9.612	33.469	-14.258	1.00	0.00	C
ATOM	500	CB	LEU	55	8.150	33.911	-14.089	1.00	0.00	C
ATOM	501	CG	LEU	55	7.233	32.804	-13.540	1.00	0.00	C
ATOM	502	CD1	LEU	55	7.642	32.393	-12.116	1.00	0.00	C
ATOM	503	CD2	LEU	55	5.754	33.209	-13.641	1.00	0.00	C
ATOM	504	C	LEU	55	9.674	32.501	-15.376	1.00	0.00	C
ATOM	505	O	LEU	55	9.796	31.289	-15.204	1.00	0.00	O
ATOM	506	N	MET	56	9.574	33.077	-16.583	1.00	0.00	N
ATOM	507	HN	MET	56	9.306	34.061	-16.621	1.00	0.00	H
ATOM	508	CA	MET	56	9.817	32.405	-17.815	1.00	0.00	C
ATOM	509	CB	MET	56	8.540	31.904	-18.509	1.00	0.00	C
ATOM	510	CG	MET	56	7.814	30.780	-17.772	1.00	0.00	C
ATOM	511	SD	MET	56	6.291	30.213	-18.589	1.00	0.00	S
ATOM	512	CE	MET	56	5.235	31.554	-17.967	1.00	0.00	C
ATOM	513	C	MET	56	10.300	33.509	-18.679	1.00	0.00	C
ATOM	514	O	MET	56	9.504	34.038	-19.452	1.00	0.00	O
ATOM	515	N	SER	57	11.575	33.944	-18.557	1.00	0.00	N

ATOM	516	HN	SER	57	12.245	33.556	-17.893	1.00	0.00	H
ATOM	517	CA	SER	57	11.875	34.998	-19.454	1.00	0.00	C
ATOM	518	CB	SER	57	13.219	35.684	-19.240	1.00	0.00	C
ATOM	519	OG	SER	57	13.245	36.846	-20.056	1.00	0.00	O
ATOM	520	HG	SER	57	14.083	37.274	-19.923	1.00	0.00	H
ATOM	521	C	SER	57	11.858	34.388	-20.812	1.00	0.00	C
ATOM	522	O	SER	57	10.868	34.418	-21.541	1.00	0.00	O
ATOM	523	N	ASN	58	12.980	33.766	-21.185	1.00	0.00	N
ATOM	524	HN	ASN	58	13.833	33.813	-20.628	1.00	0.00	H
ATOM	525	CA	ASN	58	12.918	33.036	-22.401	1.00	0.00	C
ATOM	526	CB	ASN	58	13.845	33.547	-23.515	1.00	0.00	C
ATOM	527	CG	ASN	58	13.617	32.652	-24.727	1.00	0.00	C
ATOM	528	OD1	ASN	58	12.568	32.708	-25.366	1.00	0.00	O
ATOM	529	ND2	ASN	58	14.624	31.797	-25.052	1.00	0.00	N
ATOM	530	1HD2	ASN	58	15.494	31.751	-24.522	1.00	0.00	H
ATOM	531	2HD2	ASN	58	14.471	31.198	-25.863	1.00	0.00	H
ATOM	532	C	ASN	58	13.389	31.683	-22.035	1.00	0.00	C
ATOM	533	O	ASN	58	14.528	31.335	-22.324	1.00	0.00	O
ATOM	534	N	ILE	59	12.507	30.892	-21.399	1.00	0.00	N
ATOM	535	HN	ILE	59	11.592	31.282	-21.173	1.00	0.00	H
ATOM	536	CA	ILE	59	12.770	29.539	-21.020	1.00	0.00	C
ATOM	537	CB	ILE	59	12.430	29.184	-19.588	1.00	0.00	C
ATOM	538	CG1	ILE	59	13.171	30.096	-18.608	1.00	0.00	C
ATOM	539	CG2	ILE	59	12.819	27.717	-19.305	1.00	0.00	C
ATOM	540	CD1	ILE	59	12.830	29.741	-17.162	1.00	0.00	C
ATOM	541	C	ILE	59	11.840	28.800	-21.932	1.00	0.00	C
ATOM	542	O	ILE	59	11.927	28.984	-23.145	1.00	0.00	O
ATOM	543	N	THR	60	10.985	27.911	-21.391	1.00	0.00	N
ATOM	544	HN	THR	60	11.009	27.782	-20.379	1.00	0.00	H
ATOM	545	CA	THR	60	10.046	27.136	-22.142	1.00	0.00	C
ATOM	546	CB	THR	60	8.857	27.912	-22.652	1.00	0.00	C
ATOM	547	OG1	THR	60	7.863	27.013	-23.116	1.00	0.00	O
ATOM	548	HG1	THR	60	7.604	26.432	-22.410	1.00	0.00	H
ATOM	549	CG2	THR	60	9.275	28.851	-23.792	1.00	0.00	C
ATOM	550	C	THR	60	10.794	26.496	-23.264	1.00	0.00	C
ATOM	551	O	THR	60	10.240	26.242	-24.332	1.00	0.00	O
ATOM	552	N	ASN	61	12.091	26.206	-23.025	1.00	0.00	N
ATOM	553	HN	ASN	61	12.491	26.432	-22.114	1.00	0.00	H
ATOM	554	CA	ASN	61	12.922	25.588	-24.018	1.00	0.00	C
ATOM	555	CB	ASN	61	13.645	26.565	-24.960	1.00	0.00	C
ATOM	556	CG	ASN	61	12.641	26.962	-26.033	1.00	0.00	C
ATOM	557	OD1	ASN	61	11.978	26.106	-26.618	1.00	0.00	O
ATOM	558	ND2	ASN	61	12.522	28.289	-26.299	1.00	0.00	N
ATOM	559	1HD2	ASN	61	13.072	28.998	-25.814	1.00	0.00	H
ATOM	560	2HD2	ASN	61	11.849	28.555	-27.018	1.00	0.00	H
ATOM	561	C	ASN	61	13.952	24.745	-23.336	1.00	0.00	C
ATOM	562	O	ASN	61	13.671	24.102	-22.325	1.00	0.00	O
ATOM	563	N	ARG	62	15.180	24.743	-23.900	1.00	0.00	N
ATOM	564	HN	ARG	62	15.341	25.378	-24.681	1.00	0.00	H
ATOM	565	CA	ARG	62	16.277	23.913	-23.482	1.00	0.00	C
ATOM	566	CB	ARG	62	17.641	24.457	-23.950	1.00	0.00	C
ATOM	567	CG	ARG	62	17.680	25.206	-25.291	1.00	0.00	C
ATOM	568	CD	ARG	62	17.161	26.650	-25.196	1.00	0.00	C
ATOM	569	NE	ARG	62	17.788	27.446	-26.294	1.00	0.00	N
ATOM	570	HE	ARG	62	18.514	27.024	-26.873	1.00	0.00	H
ATOM	571	CZ	ARG	62	17.398	28.733	-26.530	1.00	0.00	C
ATOM	572	NH1	ARG	62	16.336	29.265	-25.856	1.00	0.00	N
ATOM	573	1HH1	ARG	62	16.045	30.226	-26.032	1.00	0.00	H
ATOM	574	2HH1	ARG	62	15.834	28.698	-25.173	1.00	0.00	H
ATOM	575	NH2	ARG	62	18.071	29.493	-27.445	1.00	0.00	N
ATOM	576	1HH2	ARG	62	17.780	30.454	-27.621	1.00	0.00	H
ATOM	577	2HH2	ARG	62	18.864	29.096	-27.948	1.00	0.00	H
ATOM	578	C	ARG	62	16.381	23.997	-21.984	1.00	0.00	C
ATOM	579	O	ARG	62	16.920	24.960	-21.449	1.00	0.00	O
ATOM	580	N	SER	63	15.888	22.969	-21.266	1.00	0.00	N
ATOM	581	HN	SER	63	15.481	22.174	-21.759	1.00	0.00	H
ATOM	582	CA	SER	63	15.915	22.953	-19.828	1.00	0.00	C
ATOM	583	CB	SER	63	15.162	21.741	-19.257	1.00	0.00	C
ATOM	584	OG	SER	63	15.210	21.755	-17.838	1.00	0.00	O
ATOM	585	HG	SER	63	14.745	21.006	-17.485	1.00	0.00	H
ATOM	586	C	SER	63	17.322	22.847	-19.329	1.00	0.00	C
ATOM	587	O	SER	63	17.761	23.626	-18.482	1.00	0.00	O
ATOM	588	N	ASP	64	18.074	21.875	-19.872	1.00	0.00	N
ATOM	589	HN	ASP	64	17.697	21.332	-20.648	1.00	0.00	H



ATOM	590	CA	ASP	64	19.392	21.580	-19.391	1.00	0.00	C
ATOM	591	CB	ASP	64	20.017	20.331	-20.043	1.00	0.00	C
ATOM	592	CG	ASP	64	20.101	20.515	-21.551	1.00	0.00	C
ATOM	593	OD1	ASP	64	19.025	20.648	-22.193	1.00	0.00	O
ATOM	594	OD2	ASP	64	21.244	20.527	-22.083	1.00	0.00	O
ATOM	595	C	ASP	64	20.290	22.751	-19.603	1.00	0.00	C
ATOM	596	O	ASP	64	21.161	23.030	-18.781	1.00	0.00	O
ATOM	597	N	ILE	65	20.091	23.480	-20.709	1.00	0.00	N
ATOM	598	HN	ILE	65	19.336	23.226	-21.346	1.00	0.00	H
ATOM	599	CA	ILE	65	20.917	24.607	-21.013	1.00	0.00	C
ATOM	600	CB	ILE	65	20.569	25.257	-22.325	1.00	0.00	C
ATOM	601	CG1	ILE	65	21.753	26.076	-22.859	1.00	0.00	C
ATOM	602	CG2	ILE	65	19.310	26.107	-22.120	1.00	0.00	C
ATOM	603	CD1	ILE	65	22.916	25.208	-23.336	1.00	0.00	C
ATOM	604	C	ILE	65	20.716	25.607	-19.918	1.00	0.00	C
ATOM	605	O	ILE	65	21.592	26.421	-19.644	1.00	0.00	O
ATOM	606	N	ASN	66	19.504	25.641	-19.335	1.00	0.00	N
ATOM	607	HN	ASN	66	18.780	25.000	-19.660	1.00	0.00	H
ATOM	608	CA	ASN	66	19.199	26.552	-18.269	1.00	0.00	C
ATOM	609	CB	ASN	66	17.715	26.542	-17.890	1.00	0.00	C
ATOM	610	CG	ASN	66	16.933	27.164	-19.030	1.00	0.00	C
ATOM	611	OD1	ASN	66	17.488	27.603	-20.036	1.00	0.00	O
ATOM	612	ND2	ASN	66	15.591	27.218	-18.850	1.00	0.00	N
ATOM	613	1HD2	ASN	66	15.131	26.854	-18.016	1.00	0.00	H
ATOM	614	2HD2	ASN	66	15.065	27.637	-19.617	1.00	0.00	H
ATOM	615	C	ASN	66	19.948	26.168	-17.037	1.00	0.00	C
ATOM	616	O	ASN	66	20.485	27.017	-16.331	1.00	0.00	O
ATOM	617	N	ASP	67	19.998	24.865	-16.724	1.00	0.00	N
ATOM	618	HN	ASP	67	19.578	24.157	-17.326	1.00	0.00	H
ATOM	619	CA	ASP	67	20.666	24.511	-15.510	1.00	0.00	C
ATOM	620	CB	ASP	67	20.499	23.024	-15.123	1.00	0.00	C
ATOM	621	CG	ASP	67	21.146	22.109	-16.150	1.00	0.00	C
ATOM	622	OD1	ASP	67	22.402	22.116	-16.251	1.00	0.00	O
ATOM	623	OD2	ASP	67	20.386	21.375	-16.836	1.00	0.00	O
ATOM	624	C	ASP	67	22.109	24.867	-15.656	1.00	0.00	C
ATOM	625	O	ASP	67	22.748	25.326	-14.711	1.00	0.00	O
ATOM	626	N	THR	68	22.674	24.652	-16.856	1.00	0.00	N
ATOM	627	HN	THR	68	22.119	24.269	-17.621	1.00	0.00	H
ATOM	628	CA	THR	68	24.059	24.963	-17.058	1.00	0.00	C
ATOM	629	CB	THR	68	24.616	24.355	-18.317	1.00	0.00	C
ATOM	630	OG1	THR	68	25.995	24.669	-18.443	1.00	0.00	O
ATOM	631	HG1	THR	68	26.475	24.347	-17.689	1.00	0.00	H
ATOM	632	CG2	THR	68	23.842	24.874	-19.533	1.00	0.00	C
ATOM	633	C	THR	68	24.306	26.443	-17.063	1.00	0.00	C
ATOM	634	O	THR	68	25.230	26.918	-16.405	1.00	0.00	O
ATOM	635	N	GLY	69	23.478	27.227	-17.783	1.00	0.00	N
ATOM	636	HN	GLY	69	22.669	26.822	-18.254	1.00	0.00	H
ATOM	637	CA	GLY	69	23.742	28.636	-17.882	1.00	0.00	C
ATOM	638	C	GLY	69	23.640	29.259	-16.528	1.00	0.00	C
ATOM	639	O	GLY	69	24.447	30.115	-16.165	1.00	0.00	O
ATOM	640	N	PHE	70	22.607	28.865	-15.762	1.00	0.00	N
ATOM	641	HN	PHE	70	21.984	28.136	-16.108	1.00	0.00	H
ATOM	642	CA	PHE	70	22.357	29.439	-14.475	1.00	0.00	C
ATOM	643	CB	PHE	70	20.952	29.125	-13.954	1.00	0.00	C
ATOM	644	CG	PHE	70	20.087	29.993	-14.795	1.00	0.00	C
ATOM	645	CD1	PHE	70	19.788	29.635	-16.087	1.00	0.00	C
ATOM	646	CD2	PHE	70	19.593	31.174	-14.299	1.00	0.00	C
ATOM	647	CE1	PHE	70	19.002	30.419	-16.885	1.00	0.00	C
ATOM	648	CE2	PHE	70	18.802	31.973	-15.087	1.00	0.00	C
ATOM	649	CZ	PHE	70	18.513	31.589	-16.375	1.00	0.00	C
ATOM	650	C	PHE	70	23.369	29.082	-13.436	1.00	0.00	C
ATOM	651	O	PHE	70	23.881	29.965	-12.753	1.00	0.00	O
ATOM	652	N	PHE	71	23.723	27.794	-13.301	1.00	0.00	N
ATOM	653	HN	PHE	71	23.354	27.088	-13.938	1.00	0.00	H
ATOM	654	CA	PHE	71	24.626	27.424	-12.250	1.00	0.00	C
ATOM	655	CB	PHE	71	24.914	25.915	-12.183	1.00	0.00	C
ATOM	656	CG	PHE	71	25.158	25.584	-10.749	1.00	0.00	C
ATOM	657	CD1	PHE	71	26.319	25.934	-10.102	1.00	0.00	C
ATOM	658	CD2	PHE	71	24.190	24.902	-10.048	1.00	0.00	C
ATOM	659	CE1	PHE	71	26.492	25.603	-8.777	1.00	0.00	C
ATOM	660	CE2	PHE	71	24.362	24.571	-8.726	1.00	0.00	C
ATOM	661	CZ	PHE	71	25.521	24.924	-8.084	1.00	0.00	C
ATOM	662	C	PHE	71	25.894	28.129	-12.591	1.00	0.00	C
ATOM	663	O	PHE	71	26.697	28.470	-11.724	1.00	0.00	O

ATOM	664	N	MET	72	26.104	28.336	-13.902	1.00	0.00	N
ATOM	665	HN	MET	72	25.409	28.025	-14.581	1.00	0.00	H
ATOM	666	CA	MET	72	27.293	28.988	-14.354	1.00	0.00	C
ATOM	667	CB	MET	72	27.311	29.157	-15.883	1.00	0.00	C
ATOM	668	CG	MET	72	28.585	29.808	-16.425	1.00	0.00	C
ATOM	669	SD	MET	72	28.556	30.163	-18.210	1.00	0.00	S
ATOM	670	CE	MET	72	28.661	28.432	-18.748	1.00	0.00	C
ATOM	671	C	MET	72	27.383	30.370	-13.776	1.00	0.00	C
ATOM	672	O	MET	72	28.337	30.684	-13.068	1.00	0.00	O
ATOM	673	N	ASN	73	26.359	31.216	-14.001	1.00	0.00	N
ATOM	674	HN	ASN	73	25.530	30.889	-14.498	1.00	0.00	H
ATOM	675	CA	ASN	73	26.429	32.576	-13.544	1.00	0.00	C
ATOM	676	CB	ASN	73	25.291	33.474	-14.065	1.00	0.00	C
ATOM	677	CG	ASN	73	23.994	33.076	-13.378	1.00	0.00	C
ATOM	678	OD1	ASN	73	23.741	33.466	-12.239	1.00	0.00	O
ATOM	679	ND2	ASN	73	23.140	32.291	-14.086	1.00	0.00	N
ATOM	680	1HD2	ASN	73	23.350	31.968	-15.030	1.00	0.00	H
ATOM	681	2HD2	ASN	73	22.270	32.024	-13.625	1.00	0.00	H
ATOM	682	C	ASN	73	26.347	32.575	-12.057	1.00	0.00	C
ATOM	683	O	ASN	73	26.908	33.448	-11.395	1.00	0.00	O
ATOM	684	N	LEU	74	25.606	31.608	-11.488	1.00	0.00	N
ATOM	685	HN	LEU	74	25.167	30.883	-12.055	1.00	0.00	H
ATOM	686	CA	LEU	74	25.450	31.623	-10.066	1.00	0.00	C
ATOM	687	CB	LEU	74	24.645	30.446	-9.527	1.00	0.00	C
ATOM	688	CG	LEU	74	24.580	30.452	-7.991	1.00	0.00	C
ATOM	689	CD1	LEU	74	23.908	31.729	-7.463	1.00	0.00	C
ATOM	690	CD2	LEU	74	23.935	29.165	-7.459	1.00	0.00	C
ATOM	691	C	LEU	74	26.768	31.485	-9.397	1.00	0.00	C
ATOM	692	O	LEU	74	27.199	32.361	-8.651	1.00	0.00	O
ATOM	693	N	GLU	75	27.475	30.387	-9.689	1.00	0.00	N
ATOM	694	HN	GLU	75	27.141	29.718	-10.382	1.00	0.00	H
ATOM	695	CA	GLU	75	28.708	30.179	-9.004	1.00	0.00	C
ATOM	696	CB	GLU	75	29.365	28.837	-9.336	1.00	0.00	C
ATOM	697	CG	GLU	75	28.587	27.663	-8.758	1.00	0.00	C
ATOM	698	CD	GLU	75	28.709	27.696	-7.239	1.00	0.00	C
ATOM	699	OE1	GLU	75	29.089	28.763	-6.687	1.00	0.00	O
ATOM	700	OE2	GLU	75	28.418	26.645	-6.606	1.00	0.00	O
ATOM	701	C	GLU	75	29.655	31.250	-9.406	1.00	0.00	C
ATOM	702	O	GLU	75	30.401	31.766	-8.576	1.00	0.00	O
ATOM	703	N	GLU	76	29.637	31.630	-10.697	1.00	0.00	N
ATOM	704	HN	GLU	76	28.940	31.256	-11.341	1.00	0.00	H
ATOM	705	CA	GLU	76	30.619	32.572	-11.148	1.00	0.00	C
ATOM	706	CB	GLU	76	30.614	32.793	-12.678	1.00	0.00	C
ATOM	707	CG	GLU	76	29.287	33.246	-13.290	1.00	0.00	C
ATOM	708	CD	GLU	76	29.185	34.760	-13.229	1.00	0.00	C
ATOM	709	OE1	GLU	76	30.217	35.438	-13.479	1.00	0.00	O
ATOM	710	OE2	GLU	76	28.065	35.258	-12.940	1.00	0.00	O
ATOM	711	C	GLU	76	30.496	33.892	-10.448	1.00	0.00	C
ATOM	712	O	GLU	76	31.481	34.404	-9.917	1.00	0.00	O
ATOM	713	N	ASP	77	29.290	34.479	-10.386	1.00	0.00	N
ATOM	714	HN	ASP	77	28.471	34.032	-10.799	1.00	0.00	H
ATOM	715	CA	ASP	77	29.177	35.748	-9.726	1.00	0.00	C
ATOM	716	CB	ASP	77	27.802	36.417	-9.908	1.00	0.00	C
ATOM	717	CG	ASP	77	27.960	37.916	-9.661	1.00	0.00	C
ATOM	718	OD1	ASP	77	28.531	38.300	-8.607	1.00	0.00	O
ATOM	719	OD2	ASP	77	27.506	38.703	-10.533	1.00	0.00	O
ATOM	720	C	ASP	77	29.399	35.493	-8.275	1.00	0.00	C
ATOM	721	O	ASP	77	29.778	36.384	-7.522	1.00	0.00	O
ATOM	722	N	MET	78	29.138	34.254	-7.829	1.00	0.00	N
ATOM	723	HN	MET	78	28.827	33.529	-8.476	1.00	0.00	H
ATOM	724	CA	MET	78	29.300	33.959	-6.438	1.00	0.00	C
ATOM	725	CB	MET	78	28.832	32.548	-6.040	1.00	0.00	C
ATOM	726	CG	MET	78	28.778	32.353	-4.522	1.00	0.00	C
ATOM	727	SD	MET	78	27.669	31.028	-3.966	1.00	0.00	S
ATOM	728	CE	MET	78	26.181	32.055	-4.145	1.00	0.00	C
ATOM	729	C	MET	78	30.742	34.144	-6.088	1.00	0.00	C
ATOM	730	O	MET	78	31.057	34.600	-4.990	1.00	0.00	O
ATOM	731	N	THR	79	31.673	33.784	-6.992	1.00	0.00	N
ATOM	732	HN	THR	79	31.415	33.346	-7.876	1.00	0.00	H
ATOM	733	CA	THR	79	33.043	34.044	-6.656	1.00	0.00	C
ATOM	734	CB	THR	79	34.040	33.594	-7.680	1.00	0.00	C
ATOM	735	OG1	THR	79	33.860	34.308	-8.895	1.00	0.00	O
ATOM	736	HG1	THR	79	34.492	34.023	-9.544	1.00	0.00	H
ATOM	737	CG2	THR	79	33.868	32.089	-7.908	1.00	0.00	C

ATOM	738	C	THR	79	33.187	35.526	-6.574	1.00	0.00	C
ATOM	739	O	THR	79	33.806	36.052	-5.652	1.00	0.00	O
ATOM	740	N	ARG	80	32.556	36.234	-7.529	1.00	0.00	N
ATOM	741	HN	ARG	80	31.968	35.737	-8.198	1.00	0.00	H
ATOM	742	CA	ARG	80	32.675	37.657	-7.645	1.00	0.00	C
ATOM	743	CB	ARG	80	31.822	38.229	-8.796	1.00	0.00	C
ATOM	744	CG	ARG	80	32.195	37.664	-10.172	1.00	0.00	C
ATOM	745	CD	ARG	80	33.466	38.264	-10.785	1.00	0.00	C
ATOM	746	NE	ARG	80	33.130	39.616	-11.318	1.00	0.00	N
ATOM	747	HE	ARG	80	33.111	40.420	-10.691	1.00	0.00	H
ATOM	748	CZ	ARG	80	32.847	39.779	-12.645	1.00	0.00	C
ATOM	749	NH1	ARG	80	32.912	38.711	-13.494	1.00	0.00	N
ATOM	750	1HH1	ARG	80	33.167	37.791	-13.135	1.00	0.00	H
ATOM	751	2HH1	ARG	80	32.701	38.833	-14.484	1.00	0.00	H
ATOM	752	NH2	ARG	80	32.506	41.010	-13.125	1.00	0.00	N
ATOM	753	1HH2	ARG	80	32.457	41.808	-12.491	1.00	0.00	H
ATOM	754	2HH2	ARG	80	32.295	41.132	-14.115	1.00	0.00	H
ATOM	755	C	ARG	80	32.206	38.283	-6.367	1.00	0.00	C
ATOM	756	O	ARG	80	32.807	39.242	-5.887	1.00	0.00	O
ATOM	757	N	TYR	81	31.121	37.757	-5.770	1.00	0.00	N
ATOM	758	HN	TYR	81	30.654	36.949	-6.183	1.00	0.00	H
ATOM	759	CA	TYR	81	30.619	38.329	-4.555	1.00	0.00	C
ATOM	760	CB	TYR	81	29.414	37.586	-3.942	1.00	0.00	C
ATOM	761	CG	TYR	81	28.199	37.640	-4.807	1.00	0.00	C
ATOM	762	CD1	TYR	81	27.516	38.818	-5.012	1.00	0.00	C
ATOM	763	CD2	TYR	81	27.714	36.486	-5.377	1.00	0.00	C
ATOM	764	CE1	TYR	81	26.384	38.845	-5.795	1.00	0.00	C
ATOM	765	CE2	TYR	81	26.583	36.506	-6.159	1.00	0.00	C
ATOM	766	CZ	TYR	81	25.916	37.688	-6.371	1.00	0.00	C
ATOM	767	OH	TYR	81	24.754	37.708	-7.172	1.00	0.00	O
ATOM	768	HH	TYR	81	24.293	38.525	-7.319	1.00	0.00	H
ATOM	769	C	TYR	81	31.690	38.198	-3.523	1.00	0.00	C
ATOM	770	O	TYR	81	32.014	39.156	-2.824	1.00	0.00	O
ATOM	771	N	ALA	82	32.305	37.005	-3.435	1.00	0.00	N
ATOM	772	HN	ALA	82	32.090	36.271	-4.110	1.00	0.00	H
ATOM	773	CA	ALA	82	33.261	36.761	-2.397	1.00	0.00	C
ATOM	774	CB	ALA	82	33.884	35.357	-2.477	1.00	0.00	C
ATOM	775	C	ALA	82	34.372	37.750	-2.518	1.00	0.00	C
ATOM	776	O	ALA	82	34.785	38.350	-1.527	1.00	0.00	O
ATOM	777	N	TYR	83	34.857	37.988	-3.747	1.00	0.00	N
ATOM	778	HN	TYR	83	34.439	37.539	-4.562	1.00	0.00	H
ATOM	779	CA	TYR	83	35.965	38.876	-3.902	1.00	0.00	C
ATOM	780	CB	TYR	83	36.465	39.023	-5.357	1.00	0.00	C
ATOM	781	CG	TYR	83	36.785	37.667	-5.891	1.00	0.00	C
ATOM	782	CD1	TYR	83	37.836	36.934	-5.389	1.00	0.00	C
ATOM	783	CD2	TYR	83	36.006	37.111	-6.878	1.00	0.00	C
ATOM	784	CE1	TYR	83	38.108	35.677	-5.880	1.00	0.00	C
ATOM	785	CE2	TYR	83	36.273	35.857	-7.373	1.00	0.00	C
ATOM	786	CZ	TYR	83	37.328	35.136	-6.874	1.00	0.00	C
ATOM	787	OH	TYR	83	37.605	33.846	-7.377	1.00	0.00	O
ATOM	788	HH	TYR	83	38.336	33.347	-7.031	1.00	0.00	H
ATOM	789	C	TYR	83	35.534	40.236	-3.455	1.00	0.00	C
ATOM	790	O	TYR	83	36.325	40.970	-2.869	1.00	0.00	O
ATOM	791	N	TYR	84	34.283	40.637	-3.755	1.00	0.00	N
ATOM	792	HN	TYR	84	33.612	40.001	-4.186	1.00	0.00	H
ATOM	793	CA	TYR	84	33.932	41.994	-3.444	1.00	0.00	C
ATOM	794	CB	TYR	84	32.682	42.555	-4.156	1.00	0.00	C
ATOM	795	CG	TYR	84	31.388	42.221	-3.495	1.00	0.00	C
ATOM	796	CD1	TYR	84	30.960	42.956	-2.411	1.00	0.00	C
ATOM	797	CD2	TYR	84	30.582	41.218	-3.977	1.00	0.00	C
ATOM	798	CE1	TYR	84	29.758	42.681	-1.804	1.00	0.00	C
ATOM	799	CE2	TYR	84	29.378	40.938	-3.375	1.00	0.00	C
ATOM	800	CZ	TYR	84	28.964	41.669	-2.287	1.00	0.00	C
ATOM	801	OH	TYR	84	27.728	41.386	-1.669	1.00	0.00	O
ATOM	802	HH	TYR	84	27.442	41.891	-0.917	1.00	0.00	H
ATOM	803	C	TYR	84	33.815	42.262	-1.974	1.00	0.00	C
ATOM	804	O	TYR	84	34.363	43.250	-1.490	1.00	0.00	O
ATOM	805	N	TYR	85	33.120	41.401	-1.203	1.00	0.00	N
ATOM	806	HN	TYR	85	32.701	40.557	-1.593	1.00	0.00	H
ATOM	807	CA	TYR	85	32.995	41.723	0.190	1.00	0.00	C
ATOM	808	CB	TYR	85	32.121	40.772	1.014	1.00	0.00	C
ATOM	809	CG	TYR	85	32.786	39.460	1.242	1.00	0.00	C
ATOM	810	CD1	TYR	85	32.723	38.461	0.300	1.00	0.00	C
ATOM	811	CD2	TYR	85	33.457	39.229	2.421	1.00	0.00	C

ATOM	812	CE1	TYR	85	33.332	37.251	0.530	1.00	0.00	C
ATOM	813	CE2	TYR	85	34.068	38.022	2.657	1.00	0.00	C
ATOM	814	CZ	TYR	85	34.005	37.030	1.708	1.00	0.00	C
ATOM	815	OH	TYR	85	34.629	35.787	1.943	1.00	0.00	O
ATOM	816	HH	TYR	85	35.094	35.634	2.757	1.00	0.00	H
ATOM	817	C	TYR	85	34.364	41.672	0.752	1.00	0.00	C
ATOM	818	O	TYR	85	34.723	42.449	1.628	1.00	0.00	O
ATOM	819	N	SER	86	35.165	40.723	0.257	1.00	0.00	N
ATOM	820	HN	SER	86	34.814	40.100	-0.471	1.00	0.00	H
ATOM	821	CA	SER	86	36.500	40.566	0.728	1.00	0.00	C
ATOM	822	CB	SER	86	37.245	39.492	-0.077	1.00	0.00	C
ATOM	823	OG	SER	86	38.570	39.350	0.403	1.00	0.00	O
ATOM	824	HG	SER	86	39.031	38.685	-0.095	1.00	0.00	H
ATOM	825	C	SER	86	37.256	41.849	0.571	1.00	0.00	C
ATOM	826	O	SER	86	37.525	42.538	1.553	1.00	0.00	O
ATOM	827	N	GLY	87	37.534	42.255	-0.685	1.00	0.00	N
ATOM	828	HN	GLY	87	37.111	41.768	-1.475	1.00	0.00	H
ATOM	829	CA	GLY	87	38.416	43.361	-0.926	1.00	0.00	C
ATOM	830	C	GLY	87	37.916	44.584	-0.232	1.00	0.00	C
ATOM	831	O	GLY	87	38.694	45.294	0.403	1.00	0.00	O
ATOM	832	N	ILE	88	36.613	44.892	-0.346	1.00	0.00	N
ATOM	833	HN	ILE	88	35.977	44.301	-0.881	1.00	0.00	H
ATOM	834	CA	ILE	88	36.147	46.078	0.309	1.00	0.00	C
ATOM	835	CB	ILE	88	34.723	46.420	-0.017	1.00	0.00	C
ATOM	836	CG1	ILE	88	34.572	46.736	-1.515	1.00	0.00	C
ATOM	837	CG2	ILE	88	34.286	47.565	0.920	1.00	0.00	C
ATOM	838	CD1	ILE	88	35.390	47.947	-1.959	1.00	0.00	C
ATOM	839	C	ILE	88	36.189	45.897	1.791	1.00	0.00	C
ATOM	840	O	ILE	88	36.826	46.660	2.513	1.00	0.00	O
ATOM	841	N	GLY	89	35.575	44.810	2.277	1.00	0.00	N
ATOM	842	HN	GLY	89	35.254	44.086	1.635	1.00	0.00	H
ATOM	843	CA	GLY	89	35.363	44.649	3.682	1.00	0.00	C
ATOM	844	C	GLY	89	36.648	44.664	4.425	1.00	0.00	C
ATOM	845	O	GLY	89	36.802	45.421	5.381	1.00	0.00	O
ATOM	846	N	ALA	90	37.621	43.858	3.983	1.00	0.00	N
ATOM	847	HN	ALA	90	37.472	43.271	3.163	1.00	0.00	H
ATOM	848	CA	ALA	90	38.869	43.831	4.674	1.00	0.00	C
ATOM	849	CB	ALA	90	39.885	42.889	4.013	1.00	0.00	C
ATOM	850	C	ALA	90	39.393	45.217	4.566	1.00	0.00	C
ATOM	851	O	ALA	90	39.915	45.781	5.527	1.00	0.00	O
ATOM	852	N	GLY	91	39.179	45.829	3.388	1.00	0.00	N
ATOM	853	HN	GLY	91	38.624	45.374	2.664	1.00	0.00	H
ATOM	854	CA	GLY	91	39.737	47.121	3.163	1.00	0.00	C
ATOM	855	C	GLY	91	39.249	48.088	4.198	1.00	0.00	C
ATOM	856	O	GLY	91	40.048	48.713	4.889	1.00	0.00	O
ATOM	857	N	VAL	92	37.927	48.179	4.398	1.00	0.00	N
ATOM	858	HN	VAL	92	37.299	47.543	3.906	1.00	0.00	H
ATOM	859	CA	VAL	92	37.382	49.158	5.294	1.00	0.00	C
ATOM	860	CB	VAL	92	35.905	48.997	5.445	1.00	0.00	C
ATOM	861	CG1	VAL	92	35.391	50.070	6.405	1.00	0.00	C
ATOM	862	CG2	VAL	92	35.262	49.006	4.055	1.00	0.00	C
ATOM	863	C	VAL	92	37.943	48.961	6.661	1.00	0.00	C
ATOM	864	O	VAL	92	38.457	49.910	7.250	1.00	0.00	O
ATOM	865	N	LEU	93	37.921	47.713	7.175	1.00	0.00	N
ATOM	866	HN	LEU	93	37.615	46.929	6.598	1.00	0.00	H
ATOM	867	CA	LEU	93	38.330	47.488	8.537	1.00	0.00	C
ATOM	868	CB	LEU	93	38.424	46.014	8.933	1.00	0.00	C
ATOM	869	CG	LEU	93	37.063	45.413	9.247	1.00	0.00	C
ATOM	870	CD1	LEU	93	36.494	46.066	10.518	1.00	0.00	C
ATOM	871	CD2	LEU	93	36.137	45.507	8.029	1.00	0.00	C
ATOM	872	C	LEU	93	39.704	48.012	8.748	1.00	0.00	C
ATOM	873	O	LEU	93	39.948	48.735	9.713	1.00	0.00	O
ATOM	874	N	VAL	94	40.639	47.687	7.843	1.00	0.00	N
ATOM	875	HN	VAL	94	40.405	47.147	7.010	1.00	0.00	H
ATOM	876	CA	VAL	94	41.976	48.127	8.091	1.00	0.00	C
ATOM	877	CB	VAL	94	42.978	47.593	7.103	1.00	0.00	C
ATOM	878	CG1	VAL	94	43.019	46.064	7.259	1.00	0.00	C
ATOM	879	CG2	VAL	94	42.624	48.057	5.679	1.00	0.00	C
ATOM	880	C	VAL	94	42.049	49.629	8.081	1.00	0.00	C
ATOM	881	O	VAL	94	42.578	50.236	9.011	1.00	0.00	O
ATOM	882	N	ALA	95	41.496	50.261	7.029	1.00	0.00	N
ATOM	883	HN	ALA	95	40.991	49.701	6.343	1.00	0.00	H
ATOM	884	CA	ALA	95	41.577	51.682	6.817	1.00	0.00	C
ATOM	885	CB	ALA	95	41.051	52.097	5.432	1.00	0.00	C

ATOM	886	C	ALA	95	40.820	52.486	7.829	1.00	0.00	C
ATOM	887	O	ALA	95	41.265	53.565	8.216	1.00	0.00	O
ATOM	888	N	ALA	96	39.627	52.019	8.244	1.00	0.00	N
ATOM	889	HN	ALA	96	39.290	51.115	7.914	1.00	0.00	H
ATOM	890	CA	ALA	96	38.829	52.794	9.151	1.00	0.00	C
ATOM	891	CB	ALA	96	37.479	52.138	9.487	1.00	0.00	C
ATOM	892	C	ALA	96	39.581	52.936	10.425	1.00	0.00	C
ATOM	893	O	ALA	96	39.762	54.048	10.923	1.00	0.00	O
ATOM	894	N	TYR	97	40.123	51.807	10.922	1.00	0.00	N
ATOM	895	HN	TYR	97	40.035	50.935	10.401	1.00	0.00	H
ATOM	896	CA	TYR	97	40.819	51.816	12.170	1.00	0.00	C
ATOM	897	CB	TYR	97	41.444	50.464	12.550	1.00	0.00	C
ATOM	898	CG	TYR	97	42.294	50.705	13.752	1.00	0.00	C
ATOM	899	CD1	TYR	97	41.743	50.775	15.011	1.00	0.00	C
ATOM	900	CD2	TYR	97	43.654	50.864	13.613	1.00	0.00	C
ATOM	901	CE1	TYR	97	42.538	50.996	16.112	1.00	0.00	C
ATOM	902	CE2	TYR	97	44.454	51.085	14.709	1.00	0.00	C
ATOM	903	CZ	TYR	97	43.895	51.151	15.962	1.00	0.00	C
ATOM	904	OH	TYR	97	44.716	51.378	17.086	1.00	0.00	O
ATOM	905	HH	TYR	97	45.654	51.485	16.982	1.00	0.00	H
ATOM	906	C	TYR	97	41.931	52.792	12.031	1.00	0.00	C
ATOM	907	O	TYR	97	42.275	53.491	12.982	1.00	0.00	O
ATOM	908	N	ILE	98	42.537	52.849	10.833	1.00	0.00	N
ATOM	909	HN	ILE	98	42.213	52.257	10.068	1.00	0.00	H
ATOM	910	CA	ILE	98	43.638	53.742	10.632	1.00	0.00	C
ATOM	911	CB	ILE	98	44.280	53.581	9.286	1.00	0.00	C
ATOM	912	CG1	ILE	98	44.827	52.149	9.135	1.00	0.00	C
ATOM	913	CG2	ILE	98	45.352	54.675	9.144	1.00	0.00	C
ATOM	914	CD1	ILE	98	45.825	51.756	10.225	1.00	0.00	C
ATOM	915	C	ILE	98	43.199	55.178	10.786	1.00	0.00	C
ATOM	916	O	ILE	98	43.832	55.937	11.515	1.00	0.00	O
ATOM	917	N	GLN	99	42.071	55.579	10.162	1.00	0.00	N
ATOM	918	HN	GLN	99	41.520	54.886	9.656	1.00	0.00	H
ATOM	919	CA	GLN	99	41.612	56.948	10.181	1.00	0.00	C
ATOM	920	CB	GLN	99	40.212	57.098	9.555	1.00	0.00	C
ATOM	921	CG	GLN	99	40.063	56.565	8.131	1.00	0.00	C
ATOM	922	CD	GLN	99	38.593	56.673	7.729	1.00	0.00	C
ATOM	923	OE1	GLN	99	38.200	56.243	6.646	1.00	0.00	O
ATOM	924	NE2	GLN	99	37.753	57.260	8.623	1.00	0.00	N
ATOM	925	1HE2	GLN	99	38.079	57.617	9.521	1.00	0.00	H
ATOM	926	2HE2	GLN	99	36.772	57.332	8.355	1.00	0.00	H
ATOM	927	C	GLN	99	41.394	57.376	11.604	1.00	0.00	C
ATOM	928	O	GLN	99	41.617	58.527	11.966	1.00	0.00	O
ATOM	929	N	VAL	100	40.871	56.475	12.442	1.00	0.00	N
ATOM	930	HN	VAL	100	40.655	55.540	12.096	1.00	0.00	H
ATOM	931	CA	VAL	100	40.606	56.791	13.818	1.00	0.00	C
ATOM	932	CB	VAL	100	39.838	55.697	14.503	1.00	0.00	C
ATOM	933	CG1	VAL	100	39.602	56.099	15.969	1.00	0.00	C
ATOM	934	CG2	VAL	100	38.551	55.431	13.701	1.00	0.00	C
ATOM	935	C	VAL	100	41.902	56.989	14.550	1.00	0.00	C
ATOM	936	O	VAL	100	41.999	57.815	15.459	1.00	0.00	O
ATOM	937	N	SER	101	42.936	56.209	14.183	1.00	0.00	N
ATOM	938	HN	SER	101	42.802	55.531	13.433	1.00	0.00	H
ATOM	939	CA	SER	101	44.220	56.303	14.814	1.00	0.00	C
ATOM	940	CB	SER	101	45.244	55.332	14.206	1.00	0.00	C
ATOM	941	OG	SER	101	44.796	53.995	14.366	1.00	0.00	O
ATOM	942	HG	SER	101	45.429	53.395	13.990	1.00	0.00	H
ATOM	943	C	SER	101	44.722	57.682	14.540	1.00	0.00	C
ATOM	944	O	SER	101	45.524	58.237	15.293	1.00	0.00	O
ATOM	945	N	PHE	102	44.262	58.253	13.412	1.00	0.00	N
ATOM	946	HN	PHE	102	43.644	57.718	12.803	1.00	0.00	H
ATOM	947	CA	PHE	102	44.615	59.588	13.043	1.00	0.00	C
ATOM	948	CB	PHE	102	43.864	60.053	11.777	1.00	0.00	C
ATOM	949	CG	PHE	102	44.162	61.448	11.311	1.00	0.00	C
ATOM	950	CD1	PHE	102	43.979	62.551	12.118	1.00	0.00	C
ATOM	951	CD2	PHE	102	44.646	61.655	10.042	1.00	0.00	C
ATOM	952	CE1	PHE	102	44.241	63.825	11.677	1.00	0.00	C
ATOM	953	CE2	PHE	102	44.909	62.927	9.589	1.00	0.00	C
ATOM	954	CZ	PHE	102	44.703	64.015	10.400	1.00	0.00	C
ATOM	955	C	PHE	102	44.098	60.447	14.137	1.00	0.00	C
ATOM	956	O	PHE	102	44.869	61.173	14.763	1.00	0.00	O
ATOM	957	N	TRP	103	42.787	60.299	14.441	1.00	0.00	N
ATOM	958	HN	TRP	103	42.257	59.524	14.042	1.00	0.00	H
ATOM	959	CA	TRP	103	42.142	61.227	15.321	1.00	0.00	C

ATOM	960	CB	TRP	103	40.676	60.850	15.679	1.00	0.00	C
ATOM	961	CG	TRP	103	39.964	61.761	16.680	1.00	0.00	C
ATOM	962	CD2	TRP	103	38.608	62.222	16.544	1.00	0.00	C
ATOM	963	CD1	TRP	103	40.436	62.331	17.833	1.00	0.00	C
ATOM	964	NE1	TRP	103	39.466	63.102	18.417	1.00	0.00	N
ATOM	965	HE1	TRP	103	39.565	63.625	19.287	1.00	0.00	H
ATOM	966	CE2	TRP	103	38.335	63.053	17.633	1.00	0.00	C
ATOM	967	CE3	TRP	103	37.666	61.992	15.577	1.00	0.00	C
ATOM	968	CZ2	TRP	103	37.120	63.659	17.775	1.00	0.00	C
ATOM	969	CZ3	TRP	103	36.438	62.600	15.730	1.00	0.00	C
ATOM	970	CH2	TRP	103	36.170	63.419	16.807	1.00	0.00	C
ATOM	971	C	TRP	103	42.901	61.376	16.597	1.00	0.00	C
ATOM	972	O	TRP	103	43.530	62.408	16.816	1.00	0.00	O
ATOM	973	N	CYS	104	42.938	60.338	17.436	1.00	0.00	N
ATOM	974	HN	CYS	104	42.565	59.429	17.161	1.00	0.00	H
ATOM	975	CA	CYS	104	43.514	60.533	18.729	1.00	0.00	C
ATOM	976	CB	CYS	104	43.141	59.432	19.727	1.00	0.00	C
ATOM	977	SG	CYS	104	41.367	59.423	20.129	1.00	0.00	S
ATOM	978	C	CYS	104	44.991	60.703	18.751	1.00	0.00	C
ATOM	979	O	CYS	104	45.450	61.548	19.512	1.00	0.00	O
ATOM	980	N	LEU	105	45.778	59.945	17.952	1.00	0.00	N
ATOM	981	HN	LEU	105	45.377	59.297	17.274	1.00	0.00	H
ATOM	982	CA	LEU	105	47.202	60.089	18.097	1.00	0.00	C
ATOM	983	CB	LEU	105	48.048	59.248	17.127	1.00	0.00	C
ATOM	984	CG	LEU	105	48.266	57.805	17.601	1.00	0.00	C
ATOM	985	CD1	LEU	105	49.117	57.011	16.598	1.00	0.00	C
ATOM	986	CD2	LEU	105	48.880	57.805	19.011	1.00	0.00	C
ATOM	987	C	LEU	105	47.546	61.512	17.854	1.00	0.00	C
ATOM	988	O	LEU	105	48.208	62.146	18.677	1.00	0.00	O
ATOM	989	N	ALA	106	47.010	62.073	16.764	1.00	0.00	N
ATOM	990	HN	ALA	106	46.385	61.556	16.145	1.00	0.00	H
ATOM	991	CA	ALA	106	47.359	63.430	16.516	1.00	0.00	C
ATOM	992	CB	ALA	106	46.800	63.935	15.175	1.00	0.00	C
ATOM	993	C	ALA	106	46.848	64.351	17.584	1.00	0.00	C
ATOM	994	O	ALA	106	47.615	64.831	18.414	1.00	0.00	O
ATOM	995	N	ALA	107	45.517	64.458	17.725	1.00	0.00	N
ATOM	996	HN	ALA	107	44.909	63.821	17.209	1.00	0.00	H
ATOM	997	CA	ALA	107	44.927	65.448	18.585	1.00	0.00	C
ATOM	998	CB	ALA	107	43.393	65.358	18.628	1.00	0.00	C
ATOM	999	C	ALA	107	45.423	65.244	19.974	1.00	0.00	C
ATOM	1000	O	ALA	107	45.694	66.198	20.700	1.00	0.00	O
ATOM	1001	N	GLY	108	45.597	63.979	20.373	1.00	0.00	N
ATOM	1002	HN	GLY	108	45.456	63.205	19.724	1.00	0.00	H
ATOM	1003	CA	GLY	108	45.984	63.735	21.724	1.00	0.00	C
ATOM	1004	C	GLY	108	47.289	64.414	22.030	1.00	0.00	C
ATOM	1005	O	GLY	108	47.347	65.285	22.897	1.00	0.00	O
ATOM	1006	N	ARG	109	48.358	64.116	21.270	1.00	0.00	N
ATOM	1007	HN	ARG	109	48.262	63.504	20.460	1.00	0.00	H
ATOM	1008	CA	ARG	109	49.639	64.672	21.615	1.00	0.00	C
ATOM	1009	CB	ARG	109	50.771	64.161	20.715	1.00	0.00	C
ATOM	1010	CG	ARG	109	50.962	62.645	20.810	1.00	0.00	C
ATOM	1011	CD	ARG	109	52.272	62.149	20.199	1.00	0.00	C
ATOM	1012	NE	ARG	109	53.346	62.420	21.195	1.00	0.00	N
ATOM	1013	HE	ARG	109	53.821	63.323	21.190	1.00	0.00	H
ATOM	1014	CZ	ARG	109	53.703	61.475	22.115	1.00	0.00	C
ATOM	1015	NH1	ARG	109	53.143	60.231	22.080	1.00	0.00	N
ATOM	1016	1HH1	ARG	109	53.410	59.526	22.767	1.00	0.00	H
ATOM	1017	2HH1	ARG	109	52.448	60.005	21.368	1.00	0.00	H
ATOM	1018	NH2	ARG	109	54.632	61.777	23.067	1.00	0.00	N
ATOM	1019	1HH2	ARG	109	54.899	61.072	23.754	1.00	0.00	H
ATOM	1020	2HH2	ARG	109	55.051	62.707	23.093	1.00	0.00	H
ATOM	1021	C	ARG	109	49.586	66.153	21.469	1.00	0.00	C
ATOM	1022	O	ARG	109	50.138	66.898	22.280	1.00	0.00	O
ATOM	1023	N	GLN	110	48.895	66.625	20.421	1.00	0.00	N
ATOM	1024	HN	GLN	110	48.386	65.993	19.803	1.00	0.00	H
ATOM	1025	CA	GLN	110	48.889	68.037	20.192	1.00	0.00	C
ATOM	1026	CB	GLN	110	48.090	68.481	18.955	1.00	0.00	C
ATOM	1027	CG	GLN	110	48.834	68.285	17.632	1.00	0.00	C
ATOM	1028	CD	GLN	110	48.350	67.025	16.934	1.00	0.00	C
ATOM	1029	OE1	GLN	110	49.110	66.079	16.741	1.00	0.00	O
ATOM	1030	NE2	GLN	110	47.053	67.021	16.522	1.00	0.00	N
ATOM	1031	1HE2	GLN	110	46.422	67.806	16.682	1.00	0.00	H
ATOM	1032	2HE2	GLN	110	46.728	66.175	16.053	1.00	0.00	H
ATOM	1033	C	GLN	110	48.298	68.747	21.368	1.00	0.00	C

ATOM	1034	O	GLN	110	48.796	69.796	21.776	1.00	0.00	O
ATOM	1035	N	ILE	111	47.201	68.218	21.933	1.00	0.00	N
ATOM	1036	HN	ILE	111	46.804	67.347	21.581	1.00	0.00	H
ATOM	1037	CA	ILE	111	46.598	68.899	23.039	1.00	0.00	C
ATOM	1038	CB	ILE	111	45.178	68.514	23.335	1.00	0.00	C
ATOM	1039	CG1	ILE	111	44.302	69.102	22.224	1.00	0.00	C
ATOM	1040	CG2	ILE	111	44.777	69.017	24.735	1.00	0.00	C
ATOM	1041	CD1	ILE	111	42.827	68.792	22.397	1.00	0.00	C
ATOM	1042	C	ILE	111	47.423	68.844	24.278	1.00	0.00	C
ATOM	1043	O	ILE	111	47.473	69.832	24.998	1.00	0.00	O
ATOM	1044	N	HIS	112	48.104	67.720	24.563	1.00	0.00	N
ATOM	1045	HN	HIS	112	48.084	66.943	23.903	1.00	0.00	H
ATOM	1046	CA	HIS	112	48.860	67.591	25.779	1.00	0.00	C
ATOM	1047	ND1	HIS	112	49.558	65.449	28.165	1.00	0.00	N
ATOM	1048	HD1	HIS	112	48.543	65.383	28.235	1.00	0.00	H
ATOM	1049	CG	HIS	112	50.279	65.885	27.077	1.00	0.00	C
ATOM	1050	CB	HIS	112	49.664	66.281	25.770	1.00	0.00	C
ATOM	1051	NE2	HIS	112	51.704	65.322	28.731	1.00	0.00	N
ATOM	1052	HE2	HIS	112	52.560	65.156	29.260	1.00	0.00	H
ATOM	1053	CD2	HIS	112	51.587	65.805	27.440	1.00	0.00	C
ATOM	1054	CE1	HIS	112	50.459	65.124	29.126	1.00	0.00	C
ATOM	1055	C	HIS	112	49.807	68.749	25.839	1.00	0.00	C
ATOM	1056	O	HIS	112	49.919	69.433	26.858	1.00	0.00	O
ATOM	1057	N	LYS	113	50.464	69.038	24.706	1.00	0.00	N
ATOM	1058	HN	LYS	113	50.318	68.468	23.873	1.00	0.00	H
ATOM	1059	CA	LYS	113	51.368	70.144	24.664	1.00	0.00	C
ATOM	1060	CB	LYS	113	52.084	70.247	23.311	1.00	0.00	C
ATOM	1061	CG	LYS	113	53.205	69.218	23.183	1.00	0.00	C
ATOM	1062	CD	LYS	113	53.656	68.942	21.751	1.00	0.00	C
ATOM	1063	CE	LYS	113	54.989	68.194	21.678	1.00	0.00	C
ATOM	1064	NZ	LYS	113	55.065	67.180	22.753	1.00	0.00	N
ATOM	1065	HZ1	LYS	113	55.954	66.681	22.704	1.00	0.00	H
ATOM	1066	HZ2	LYS	113	54.269	66.543	22.733	1.00	0.00	H
ATOM	1067	HZ3	LYS	113	54.907	67.589	23.674	1.00	0.00	H
ATOM	1068	C	LYS	113	50.614	71.413	24.900	1.00	0.00	C
ATOM	1069	O	LYS	113	51.027	72.252	25.704	1.00	0.00	O
ATOM	1070	N	ILE	114	49.455	71.575	24.236	1.00	0.00	N
ATOM	1071	HN	ILE	114	49.069	70.832	23.653	1.00	0.00	H
ATOM	1072	CA	ILE	114	48.785	72.831	24.381	1.00	0.00	C
ATOM	1073	CB	ILE	114	47.563	73.026	23.512	1.00	0.00	C
ATOM	1074	CG1	ILE	114	47.172	74.510	23.529	1.00	0.00	C
ATOM	1075	CG2	ILE	114	46.407	72.137	23.992	1.00	0.00	C
ATOM	1076	CD1	ILE	114	48.218	75.429	22.902	1.00	0.00	C
ATOM	1077	C	ILE	114	48.395	73.007	25.810	1.00	0.00	C
ATOM	1078	O	ILE	114	48.700	74.036	26.409	1.00	0.00	O
ATOM	1079	N	ARG	115	47.826	71.954	26.422	1.00	0.00	N
ATOM	1080	HN	ARG	115	47.798	71.058	25.935	1.00	0.00	H
ATOM	1081	CA	ARG	115	47.261	72.046	27.726	1.00	0.00	C
ATOM	1082	CB	ARG	115	46.803	70.699	28.317	1.00	0.00	C
ATOM	1083	CG	ARG	115	45.512	70.130	27.729	1.00	0.00	C
ATOM	1084	CD	ARG	115	44.963	68.959	28.548	1.00	0.00	C
ATOM	1085	NE	ARG	115	43.710	68.478	27.902	1.00	0.00	N
ATOM	1086	HE	ARG	115	43.740	67.707	27.235	1.00	0.00	H
ATOM	1087	CZ	ARG	115	42.522	69.074	28.208	1.00	0.00	C
ATOM	1088	NH1	ARG	115	42.494	70.146	29.052	1.00	0.00	N
ATOM	1089	1HH1	ARG	115	41.606	70.592	29.281	1.00	0.00	H
ATOM	1090	2HH1	ARG	115	43.362	70.498	29.457	1.00	0.00	H
ATOM	1091	NH2	ARG	115	41.360	68.603	27.666	1.00	0.00	N
ATOM	1092	1HH2	ARG	115	40.472	69.049	27.895	1.00	0.00	H
ATOM	1093	2HH2	ARG	115	41.381	67.802	27.035	1.00	0.00	H
ATOM	1094	C	ARG	115	48.255	72.601	28.690	1.00	0.00	C
ATOM	1095	O	ARG	115	47.972	73.605	29.339	1.00	0.00	O
ATOM	1096	N	LYS	116	49.469	72.030	28.762	1.00	0.00	N
ATOM	1097	HN	LYS	116	49.737	71.295	28.108	1.00	0.00	H
ATOM	1098	CA	LYS	116	50.383	72.475	29.779	1.00	0.00	C
ATOM	1099	CB	LYS	116	51.669	71.642	29.864	1.00	0.00	C
ATOM	1100	CG	LYS	116	52.606	72.153	30.958	1.00	0.00	C
ATOM	1101	CD	LYS	116	53.613	71.117	31.455	1.00	0.00	C
ATOM	1102	CE	LYS	116	54.117	70.159	30.378	1.00	0.00	C
ATOM	1103	NZ	LYS	116	54.988	69.136	30.999	1.00	0.00	N
ATOM	1104	HZ1	LYS	116	55.325	68.496	30.280	1.00	0.00	H
ATOM	1105	HZ2	LYS	116	54.524	68.647	31.764	1.00	0.00	H
ATOM	1106	HZ3	LYS	116	55.751	69.551	31.534	1.00	0.00	H
ATOM	1107	C	LYS	116	50.758	73.906	29.591	1.00	0.00	C

ATOM	1108	O	LYS	116	50.857	74.657	30.564	1.00	0.00	O
ATOM	1109	N	GLN	117	50.967	74.333	28.334	1.00	0.00	N
ATOM	1110	HN	GLN	117	50.831	73.711	27.537	1.00	0.00	H
ATOM	1111	CA	GLN	117	51.387	75.690	28.149	1.00	0.00	C
ATOM	1112	CB	GLN	117	51.599	76.064	26.668	1.00	0.00	C
ATOM	1113	CG	GLN	117	52.828	75.421	26.023	1.00	0.00	C
ATOM	1114	CD	GLN	117	54.063	76.181	26.491	1.00	0.00	C
ATOM	1115	OE1	GLN	117	55.097	76.168	25.826	1.00	0.00	O
ATOM	1116	NE2	GLN	117	53.958	76.866	27.662	1.00	0.00	N
ATOM	1117	1HE2	GLN	117	54.785	77.375	27.975	1.00	0.00	H
ATOM	1118	2HE2	GLN	117	53.100	76.877	28.214	1.00	0.00	H
ATOM	1119	C	GLN	117	50.317	76.584	28.690	1.00	0.00	C
ATOM	1120	O	GLN	117	50.595	77.534	29.422	1.00	0.00	O
ATOM	1121	N	PHE	118	49.050	76.252	28.388	1.00	0.00	N
ATOM	1122	HN	PHE	118	48.874	75.380	27.889	1.00	0.00	H
ATOM	1123	CA	PHE	118	47.938	77.084	28.745	1.00	0.00	C
ATOM	1124	CB	PHE	118	46.579	76.471	28.348	1.00	0.00	C
ATOM	1125	CG	PHE	118	45.558	77.558	28.244	1.00	0.00	C
ATOM	1126	CD1	PHE	118	45.574	78.640	29.091	1.00	0.00	C
ATOM	1127	CD2	PHE	118	44.619	77.527	27.238	1.00	0.00	C
ATOM	1128	CE1	PHE	118	44.640	79.642	28.965	1.00	0.00	C
ATOM	1129	CE2	PHE	118	43.680	78.524	27.108	1.00	0.00	C
ATOM	1130	CZ	PHE	118	43.687	79.585	27.979	1.00	0.00	C
ATOM	1131	C	PHE	118	47.870	77.172	30.243	1.00	0.00	C
ATOM	1132	O	PHE	118	47.692	78.257	30.794	1.00	0.00	O
ATOM	1133	N	PHE	119	48.030	76.029	30.950	1.00	0.00	N
ATOM	1134	HN	PHE	119	48.296	75.167	30.474	1.00	0.00	H
ATOM	1135	CA	PHE	119	47.824	76.033	32.376	1.00	0.00	C
ATOM	1136	CB	PHE	119	48.139	74.701	33.086	1.00	0.00	C
ATOM	1137	CG	PHE	119	47.109	73.664	32.785	1.00	0.00	C
ATOM	1138	CD1	PHE	119	45.906	73.645	33.449	1.00	0.00	C
ATOM	1139	CD2	PHE	119	47.335	72.703	31.834	1.00	0.00	C
ATOM	1140	CE1	PHE	119	44.963	72.686	33.173	1.00	0.00	C
ATOM	1141	CE2	PHE	119	46.396	71.741	31.550	1.00	0.00	C
ATOM	1142	CZ	PHE	119	45.201	71.728	32.223	1.00	0.00	C
ATOM	1143	C	PHE	119	48.716	77.048	33.038	1.00	0.00	C
ATOM	1144	O	PHE	119	48.234	77.932	33.745	1.00	0.00	O
ATOM	1145	N	HIS	120	50.039	76.967	32.802	1.00	0.00	N
ATOM	1146	HN	HIS	120	50.368	76.229	32.179	1.00	0.00	H
ATOM	1147	CA	HIS	120	51.023	77.857	33.374	1.00	0.00	C
ATOM	1148	ND1	HIS	120	54.348	78.212	34.401	1.00	0.00	N
ATOM	1149	HD1	HIS	120	54.298	77.443	35.070	1.00	0.00	H
ATOM	1150	CG	HIS	120	53.535	78.404	33.309	1.00	0.00	C
ATOM	1151	CB	HIS	120	52.433	77.477	32.889	1.00	0.00	C
ATOM	1152	NE2	HIS	120	55.037	80.082	33.412	1.00	0.00	N
ATOM	1153	HE2	HIS	120	55.561	80.931	33.197	1.00	0.00	H
ATOM	1154	CD2	HIS	120	53.966	79.550	32.717	1.00	0.00	C
ATOM	1155	CE1	HIS	120	55.230	79.245	34.416	1.00	0.00	C
ATOM	1156	C	HIS	120	50.743	79.234	32.884	1.00	0.00	C
ATOM	1157	O	HIS	120	50.944	80.219	33.597	1.00	0.00	O
ATOM	1158	N	ALA	121	50.295	79.333	31.623	1.00	0.00	N
ATOM	1159	HN	ALA	121	50.119	78.501	31.061	1.00	0.00	H
ATOM	1160	CA	ALA	121	50.072	80.643	31.092	1.00	0.00	C
ATOM	1161	CB	ALA	121	49.584	80.616	29.634	1.00	0.00	C
ATOM	1162	C	ALA	121	49.015	81.328	31.889	1.00	0.00	C
ATOM	1163	O	ALA	121	49.257	82.432	32.380	1.00	0.00	O
ATOM	1164	N	ILE	122	47.865	80.648	32.120	1.00	0.00	N
ATOM	1165	HN	ILE	122	47.775	79.677	31.821	1.00	0.00	H
ATOM	1166	CA	ILE	122	46.773	81.301	32.788	1.00	0.00	C
ATOM	1167	CB	ILE	122	45.611	80.414	33.132	1.00	0.00	C
ATOM	1168	CG1	ILE	122	44.949	79.814	31.886	1.00	0.00	C
ATOM	1169	CG2	ILE	122	44.649	81.262	33.982	1.00	0.00	C
ATOM	1170	CD1	ILE	122	43.901	78.747	32.203	1.00	0.00	C
ATOM	1171	C	ILE	122	47.275	81.755	34.121	1.00	0.00	C
ATOM	1172	O	ILE	122	47.106	82.909	34.494	1.00	0.00	O
ATOM	1173	N	MET	123	48.013	80.881	34.819	1.00	0.00	N
ATOM	1174	HN	MET	123	48.265	80.000	34.371	1.00	0.00	H
ATOM	1175	CA	MET	123	48.470	81.112	36.159	1.00	0.00	C
ATOM	1176	CB	MET	123	49.238	79.908	36.733	1.00	0.00	C
ATOM	1177	CG	MET	123	48.352	78.681	36.952	1.00	0.00	C
ATOM	1178	SD	MET	123	47.026	78.945	38.167	1.00	0.00	S
ATOM	1179	CE	MET	123	48.124	78.975	39.614	1.00	0.00	C
ATOM	1180	C	MET	123	49.368	82.307	36.247	1.00	0.00	C
ATOM	1181	O	MET	123	49.570	82.831	37.338	1.00	0.00	O



ATOM	1182	N	ARG	124	50.093	82.637	35.169	1.00	0.00	N
ATOM	1183	HN	ARG	124	50.048	82.032	34.349	1.00	0.00	H
ATOM	1184	CA	ARG	124	50.936	83.811	35.114	1.00	0.00	C
ATOM	1185	CB	ARG	124	52.149	83.637	34.183	1.00	0.00	C
ATOM	1186	CG	ARG	124	53.198	82.664	34.741	1.00	0.00	C
ATOM	1187	CD	ARG	124	54.117	83.274	35.810	1.00	0.00	C
ATOM	1188	NE	ARG	124	54.940	82.175	36.398	1.00	0.00	N
ATOM	1189	HE	ARG	124	54.836	81.223	36.047	1.00	0.00	H
ATOM	1190	CZ	ARG	124	55.832	82.433	37.403	1.00	0.00	C
ATOM	1191	NH1	ARG	124	56.011	83.708	37.854	1.00	0.00	N
ATOM	1192	1HH1	ARG	124	56.676	83.900	38.603	1.00	0.00	H
ATOM	1193	2HH1	ARG	124	55.487	84.474	37.432	1.00	0.00	H
ATOM	1194	NH2	ARG	124	56.534	81.407	37.968	1.00	0.00	N
ATOM	1195	1HH2	ARG	124	57.199	81.599	38.717	1.00	0.00	H
ATOM	1196	2HH2	ARG	124	56.400	80.454	37.631	1.00	0.00	H
ATOM	1197	C	ARG	124	50.232	85.083	34.727	1.00	0.00	C
ATOM	1198	O	ARG	124	50.724	86.172	35.017	1.00	0.00	O
ATOM	1199	N	GLN	125	49.077	84.982	34.043	1.00	0.00	N
ATOM	1200	HN	GLN	125	48.659	84.057	33.940	1.00	0.00	H
ATOM	1201	CA	GLN	125	48.395	86.107	33.447	1.00	0.00	C
ATOM	1202	CB	GLN	125	47.035	85.722	32.815	1.00	0.00	C
ATOM	1203	CG	GLN	125	46.345	86.878	32.073	1.00	0.00	C
ATOM	1204	CD	GLN	125	44.969	86.438	31.570	1.00	0.00	C
ATOM	1205	OE1	GLN	125	43.972	86.526	32.286	1.00	0.00	O
ATOM	1206	NE2	GLN	125	44.900	85.964	30.297	1.00	0.00	N
ATOM	1207	1HE2	GLN	125	45.726	85.891	29.704	1.00	0.00	H
ATOM	1208	2HE2	GLN	125	43.982	85.671	29.962	1.00	0.00	H
ATOM	1209	C	GLN	125	48.130	87.126	34.515	1.00	0.00	C
ATOM	1210	O	GLN	125	47.973	88.311	34.221	1.00	0.00	O
ATOM	1211	N	GLU	126	47.998	86.675	35.776	1.00	0.00	N
ATOM	1212	HN	GLU	126	48.054	85.672	35.955	1.00	0.00	H
ATOM	1213	CA	GLU	126	47.781	87.566	36.869	1.00	0.00	C
ATOM	1214	CB	GLU	126	48.974	88.475	37.217	1.00	0.00	C
ATOM	1215	CG	GLU	126	49.941	87.830	38.221	1.00	0.00	C
ATOM	1216	CD	GLU	126	50.284	86.410	37.783	1.00	0.00	C
ATOM	1217	OE1	GLU	126	49.370	85.541	37.801	1.00	0.00	O
ATOM	1218	OE2	GLU	126	51.474	86.174	37.441	1.00	0.00	O
ATOM	1219	C	GLU	126	46.516	88.338	36.713	1.00	0.00	C
ATOM	1220	O	GLU	126	45.470	87.828	36.328	1.00	0.00	O
ATOM	1221	N	ILE	127	46.620	89.636	36.972	1.00	0.00	N
ATOM	1222	HN	ILE	127	47.563	90.002	37.103	1.00	0.00	H
ATOM	1223	CA	ILE	127	45.553	90.568	37.085	1.00	0.00	C
ATOM	1224	CB	ILE	127	46.168	91.921	37.197	1.00	0.00	C
ATOM	1225	CG1	ILE	127	45.231	92.987	37.719	1.00	0.00	C
ATOM	1226	CG2	ILE	127	46.730	92.304	35.827	1.00	0.00	C
ATOM	1227	CD1	ILE	127	46.038	94.271	37.791	1.00	0.00	C
ATOM	1228	C	ILE	127	44.619	90.590	35.905	1.00	0.00	C
ATOM	1229	O	ILE	127	43.456	90.958	36.065	1.00	0.00	O
ATOM	1230	N	GLY	128	45.103	90.301	34.685	1.00	0.00	N
ATOM	1231	HN	GLY	128	46.089	90.056	34.589	1.00	0.00	H
ATOM	1232	CA	GLY	128	44.272	90.326	33.507	1.00	0.00	C
ATOM	1233	C	GLY	128	43.199	89.299	33.639	1.00	0.00	C
ATOM	1234	O	GLY	128	42.121	89.401	33.055	1.00	0.00	O
ATOM	1235	N	TRP	129	43.524	88.248	34.391	1.00	0.00	N
ATOM	1236	HN	TRP	129	44.456	88.250	34.806	1.00	0.00	H
ATOM	1237	CA	TRP	129	42.695	87.117	34.674	1.00	0.00	C
ATOM	1238	CB	TRP	129	43.526	86.100	35.485	1.00	0.00	C
ATOM	1239	CG	TRP	129	42.892	84.937	36.205	1.00	0.00	C
ATOM	1240	CD2	TRP	129	43.626	84.239	37.223	1.00	0.00	C
ATOM	1241	CD1	TRP	129	41.713	84.274	36.049	1.00	0.00	C
ATOM	1242	NE1	TRP	129	41.652	83.218	36.933	1.00	0.00	N
ATOM	1243	HE1	TRP	129	40.869	82.572	37.037	1.00	0.00	H
ATOM	1244	CE2	TRP	129	42.828	83.182	37.653	1.00	0.00	C
ATOM	1245	CE3	TRP	129	44.870	84.462	37.741	1.00	0.00	C
ATOM	1246	CZ2	TRP	129	43.266	82.324	38.623	1.00	0.00	C
ATOM	1247	CZ3	TRP	129	45.310	83.603	38.722	1.00	0.00	C
ATOM	1248	CH2	TRP	129	44.519	82.557	39.151	1.00	0.00	C
ATOM	1249	C	TRP	129	41.480	87.595	35.377	1.00	0.00	C
ATOM	1250	O	TRP	129	40.490	86.877	35.465	1.00	0.00	O
ATOM	1251	N	PHE	130	41.609	88.719	36.089	1.00	0.00	N
ATOM	1252	HN	PHE	130	42.551	89.075	36.254	1.00	0.00	H
ATOM	1253	CA	PHE	130	40.512	89.454	36.634	1.00	0.00	C
ATOM	1254	CB	PHE	130	41.004	90.240	37.862	1.00	0.00	C
ATOM	1255	CG	PHE	130	39.878	90.546	38.783	1.00	0.00	C

ATOM	1256	CD1	PHE	130	39.479	89.597	39.698	1.00	0.00	C
ATOM	1257	CD2	PHE	130	39.243	91.764	38.759	1.00	0.00	C
ATOM	1258	CE1	PHE	130	38.450	89.849	40.571	1.00	0.00	C
ATOM	1259	CE2	PHE	130	38.210	92.022	39.630	1.00	0.00	C
ATOM	1260	CZ	PHE	130	37.813	91.066	40.535	1.00	0.00	C
ATOM	1261	C	PHE	130	40.061	90.453	35.584	1.00	0.00	C
ATOM	1262	O	PHE	130	38.878	90.754	35.445	1.00	0.00	O
ATOM	1263	N	ASP	131	41.034	90.995	34.811	1.00	0.00	N
ATOM	1264	HN	ASP	131	41.970	90.598	34.898	1.00	0.00	H
ATOM	1265	CA	ASP	131	40.868	92.084	33.874	1.00	0.00	C
ATOM	1266	CB	ASP	131	42.173	92.402	33.125	1.00	0.00	C
ATOM	1267	CG	ASP	131	43.164	92.968	34.131	1.00	0.00	C
ATOM	1268	OD1	ASP	131	42.734	93.259	35.275	1.00	0.00	O
ATOM	1269	OD2	ASP	131	44.363	93.118	33.770	1.00	0.00	O
ATOM	1270	C	ASP	131	39.848	91.797	32.847	1.00	0.00	C
ATOM	1271	O	ASP	131	38.923	92.574	32.615	1.00	0.00	O
ATOM	1272	N	VAL	132	39.983	90.656	32.191	1.00	0.00	N
ATOM	1273	HN	VAL	132	40.758	90.019	32.378	1.00	0.00	H
ATOM	1274	CA	VAL	132	39.001	90.363	31.218	1.00	0.00	C
ATOM	1275	CB	VAL	132	39.551	90.293	29.826	1.00	0.00	C
ATOM	1276	CG1	VAL	132	40.075	91.687	29.441	1.00	0.00	C
ATOM	1277	CG2	VAL	132	40.631	89.201	29.785	1.00	0.00	C
ATOM	1278	C	VAL	132	38.609	89.009	31.615	1.00	0.00	C
ATOM	1279	O	VAL	132	39.053	88.511	32.647	1.00	0.00	O
ATOM	1280	N	HIS	133	37.702	88.418	30.847	1.00	0.00	N
ATOM	1281	HN	HIS	133	37.261	88.931	30.084	1.00	0.00	H
ATOM	1282	CA	HIS	133	37.351	87.065	31.098	1.00	0.00	C
ATOM	1283	ND1	HIS	133	39.449	85.529	29.139	1.00	0.00	N
ATOM	1284	HD1	HIS	133	38.576	85.204	28.723	1.00	0.00	H
ATOM	1285	CG	HIS	133	39.618	86.018	30.415	1.00	0.00	C
ATOM	1286	CB	HIS	133	38.525	86.117	31.442	1.00	0.00	C
ATOM	1287	NE2	HIS	133	41.605	86.037	29.340	1.00	0.00	N
ATOM	1288	HE2	HIS	133	42.596	86.164	29.133	1.00	0.00	H
ATOM	1289	CD2	HIS	133	40.944	86.322	30.520	1.00	0.00	C
ATOM	1290	CE1	HIS	133	40.668	85.563	28.540	1.00	0.00	C
ATOM	1291	C	HIS	133	36.351	86.950	32.205	1.00	0.00	C
ATOM	1292	O	HIS	133	36.548	87.438	33.317	1.00	0.00	O
ATOM	1293	N	ASP	134	35.246	86.240	31.907	1.00	0.00	N
ATOM	1294	HN	ASP	134	35.145	85.878	30.959	1.00	0.00	H
ATOM	1295	CA	ASP	134	34.205	85.966	32.851	1.00	0.00	C
ATOM	1296	CB	ASP	134	33.026	85.211	32.215	1.00	0.00	C
ATOM	1297	CG	ASP	134	32.328	86.174	31.259	1.00	0.00	C
ATOM	1298	OD1	ASP	134	31.821	87.224	31.736	1.00	0.00	O
ATOM	1299	OD2	ASP	134	32.291	85.870	30.036	1.00	0.00	O
ATOM	1300	C	ASP	134	34.835	85.098	33.892	1.00	0.00	C
ATOM	1301	O	ASP	134	34.360	84.991	35.021	1.00	0.00	O
ATOM	1302	N	VAL	135	35.915	84.409	33.484	1.00	0.00	N
ATOM	1303	HN	VAL	135	36.190	84.511	32.507	1.00	0.00	H
ATOM	1304	CA	VAL	135	36.716	83.542	34.303	1.00	0.00	C
ATOM	1305	CB	VAL	135	36.939	84.101	35.679	1.00	0.00	C
ATOM	1306	CG1	VAL	135	37.705	83.060	36.509	1.00	0.00	C
ATOM	1307	CG2	VAL	135	37.652	85.459	35.560	1.00	0.00	C
ATOM	1308	C	VAL	135	35.950	82.267	34.461	1.00	0.00	C
ATOM	1309	O	VAL	135	36.544	81.188	34.496	1.00	0.00	O
ATOM	1310	N	GLY	136	34.605	82.364	34.557	1.00	0.00	N
ATOM	1311	HN	GLY	136	34.172	83.284	34.635	1.00	0.00	H
ATOM	1312	CA	GLY	136	33.779	81.194	34.551	1.00	0.00	C
ATOM	1313	C	GLY	136	33.811	80.756	33.136	1.00	0.00	C
ATOM	1314	O	GLY	136	33.998	79.589	32.803	1.00	0.00	O
ATOM	1315	N	GLU	137	33.671	81.771	32.270	1.00	0.00	N
ATOM	1316	HN	GLU	137	33.532	82.702	32.662	1.00	0.00	H
ATOM	1317	CA	GLU	137	33.700	81.660	30.853	1.00	0.00	C
ATOM	1318	CB	GLU	137	33.606	83.073	30.241	1.00	0.00	C
ATOM	1319	CG	GLU	137	34.360	83.291	28.928	1.00	0.00	C
ATOM	1320	CD	GLU	137	33.759	82.413	27.855	1.00	0.00	C
ATOM	1321	OE1	GLU	137	32.962	81.513	28.223	1.00	0.00	O
ATOM	1322	OE2	GLU	137	34.093	82.622	26.659	1.00	0.00	O
ATOM	1323	C	GLU	137	35.026	81.069	30.484	1.00	0.00	C
ATOM	1324	O	GLU	137	35.095	80.237	29.583	1.00	0.00	O
ATOM	1325	N	LEU	138	36.101	81.503	31.179	1.00	0.00	N
ATOM	1326	HN	LEU	138	35.924	82.135	31.960	1.00	0.00	H
ATOM	1327	CA	LEU	138	37.483	81.151	30.915	1.00	0.00	C
ATOM	1328	CB	LEU	138	38.468	82.021	31.745	1.00	0.00	C
ATOM	1329	CG	LEU	138	39.996	81.771	31.575	1.00	0.00	C

ATOM	1330	CD1	LEU	138	40.806	82.897	32.240	1.00	0.00	C
ATOM	1331	CD2	LEU	138	40.465	80.416	32.138	1.00	0.00	C
ATOM	1332	C	LEU	138	37.805	79.712	31.143	1.00	0.00	C
ATOM	1333	O	LEU	138	38.250	79.053	30.216	1.00	0.00	O
ATOM	1334	N	ASN	139	37.584	79.165	32.348	1.00	0.00	N
ATOM	1335	HN	ASN	139	37.159	79.718	33.092	1.00	0.00	H
ATOM	1336	CA	ASN	139	37.950	77.795	32.584	1.00	0.00	C
ATOM	1337	CB	ASN	139	37.736	77.357	34.045	1.00	0.00	C
ATOM	1338	CG	ASN	139	36.304	77.672	34.451	1.00	0.00	C
ATOM	1339	OD1	ASN	139	36.036	78.704	35.066	1.00	0.00	O
ATOM	1340	ND2	ASN	139	35.356	76.769	34.089	1.00	0.00	N
ATOM	1341	1HD2	ASN	139	34.396	76.980	34.361	1.00	0.00	H
ATOM	1342	2HD2	ASN	139	35.578	75.914	33.579	1.00	0.00	H
ATOM	1343	C	ASN	139	37.091	76.992	31.683	1.00	0.00	C
ATOM	1344	O	ASN	139	37.540	75.984	31.142	1.00	0.00	O
ATOM	1345	N	THR	140	35.838	77.456	31.477	1.00	0.00	N
ATOM	1346	HN	THR	140	35.526	78.303	31.951	1.00	0.00	H
ATOM	1347	CA	THR	140	34.949	76.765	30.598	1.00	0.00	C
ATOM	1348	CB	THR	140	33.659	77.489	30.333	1.00	0.00	C
ATOM	1349	OG1	THR	140	32.912	77.632	31.531	1.00	0.00	O
ATOM	1350	HG1	THR	140	33.411	78.123	32.173	1.00	0.00	H
ATOM	1351	CG2	THR	140	32.852	76.694	29.294	1.00	0.00	C
ATOM	1352	C	THR	140	35.679	76.719	29.308	1.00	0.00	C
ATOM	1353	O	THR	140	35.739	75.677	28.669	1.00	0.00	O
ATOM	1354	N	ARG	141	36.307	77.850	28.949	1.00	0.00	N
ATOM	1355	HN	ARG	141	36.212	78.660	29.562	1.00	0.00	H
ATOM	1356	CA	ARG	141	37.102	78.000	27.766	1.00	0.00	C
ATOM	1357	CB	ARG	141	37.587	79.448	27.587	1.00	0.00	C
ATOM	1358	CG	ARG	141	38.884	79.548	26.790	1.00	0.00	C
ATOM	1359	CD	ARG	141	39.290	80.978	26.438	1.00	0.00	C
ATOM	1360	NE	ARG	141	38.509	81.359	25.230	1.00	0.00	N
ATOM	1361	HE	ARG	141	38.904	81.207	24.302	1.00	0.00	H
ATOM	1362	CZ	ARG	141	37.269	81.909	25.356	1.00	0.00	C
ATOM	1363	NH1	ARG	141	36.786	82.209	26.596	1.00	0.00	N
ATOM	1364	1HH1	ARG	141	37.347	82.033	27.429	1.00	0.00	H
ATOM	1365	2HH1	ARG	141	35.858	82.621	26.690	1.00	0.00	H
ATOM	1366	NH2	ARG	141	36.518	82.144	24.241	1.00	0.00	N
ATOM	1367	1HH2	ARG	141	36.879	81.920	23.314	1.00	0.00	H
ATOM	1368	2HH2	ARG	141	35.590	82.556	24.335	1.00	0.00	H
ATOM	1369	C	ARG	141	38.322	77.117	27.792	1.00	0.00	C
ATOM	1370	O	ARG	141	38.719	76.604	26.754	1.00	0.00	O
ATOM	1371	N	LEU	142	38.983	76.914	28.946	1.00	0.00	N
ATOM	1372	HN	LEU	142	38.628	77.311	29.816	1.00	0.00	H
ATOM	1373	CA	LEU	142	40.191	76.136	28.947	1.00	0.00	C
ATOM	1374	CB	LEU	142	40.749	75.993	30.383	1.00	0.00	C
ATOM	1375	CG	LEU	142	42.054	75.183	30.567	1.00	0.00	C
ATOM	1376	CD1	LEU	142	41.877	73.684	30.280	1.00	0.00	C
ATOM	1377	CD2	LEU	142	43.206	75.819	29.777	1.00	0.00	C
ATOM	1378	C	LEU	142	39.850	74.774	28.437	1.00	0.00	C
ATOM	1379	O	LEU	142	40.409	74.341	27.436	1.00	0.00	O
ATOM	1380	N	THR	143	38.892	74.077	29.080	1.00	0.00	N
ATOM	1381	HN	THR	143	38.417	74.492	29.882	1.00	0.00	H
ATOM	1382	CA	THR	143	38.534	72.752	28.645	1.00	0.00	C
ATOM	1383	CB	THR	143	37.754	71.979	29.667	1.00	0.00	C
ATOM	1384	OG1	THR	143	36.543	72.646	29.989	1.00	0.00	O
ATOM	1385	HG1	THR	143	36.002	72.743	29.214	1.00	0.00	H
ATOM	1386	CG2	THR	143	38.628	71.823	30.919	1.00	0.00	C
ATOM	1387	C	THR	143	37.744	72.788	27.387	1.00	0.00	C
ATOM	1388	O	THR	143	38.018	72.033	26.460	1.00	0.00	O
ATOM	1389	N	ASP	144	36.749	73.682	27.306	1.00	0.00	N
ATOM	1390	HN	ASP	144	36.605	74.357	28.057	1.00	0.00	H
ATOM	1391	CA	ASP	144	35.890	73.685	26.162	1.00	0.00	C
ATOM	1392	CB	ASP	144	34.803	74.767	26.260	1.00	0.00	C
ATOM	1393	CG	ASP	144	33.741	74.504	25.207	1.00	0.00	C
ATOM	1394	OD1	ASP	144	34.108	74.100	24.072	1.00	0.00	O
ATOM	1395	OD2	ASP	144	32.542	74.714	25.530	1.00	0.00	O
ATOM	1396	C	ASP	144	36.723	73.974	24.955	1.00	0.00	C
ATOM	1397	O	ASP	144	36.630	73.258	23.963	1.00	0.00	O
ATOM	1398	N	ASP	145	37.565	75.027	25.012	1.00	0.00	N
ATOM	1399	HN	ASP	145	37.633	75.566	25.875	1.00	0.00	H
ATOM	1400	CA	ASP	145	38.365	75.403	23.887	1.00	0.00	C
ATOM	1401	CB	ASP	145	39.042	76.774	24.039	1.00	0.00	C
ATOM	1402	CG	ASP	145	37.930	77.812	23.950	1.00	0.00	C
ATOM	1403	OD1	ASP	145	36.817	77.530	24.468	1.00	0.00	O

ATOM	1404	OD2	ASP	145	38.178	78.899	23.363	1.00	0.00	O
ATOM	1405	C	ASP	145	39.401	74.370	23.605	1.00	0.00	C
ATOM	1406	O	ASP	145	39.501	73.942	22.460	1.00	0.00	O
ATOM	1407	N	VAL	146	40.150	73.891	24.629	1.00	0.00	N
ATOM	1408	HN	VAL	146	39.977	74.205	25.584	1.00	0.00	H
ATOM	1409	CA	VAL	146	41.191	72.935	24.356	1.00	0.00	C
ATOM	1410	CB	VAL	146	41.932	72.400	25.548	1.00	0.00	C
ATOM	1411	CG1	VAL	146	42.704	73.553	26.190	1.00	0.00	C
ATOM	1412	CG2	VAL	146	40.962	71.678	26.491	1.00	0.00	C
ATOM	1413	C	VAL	146	40.547	71.763	23.676	1.00	0.00	C
ATOM	1414	O	VAL	146	41.059	71.291	22.665	1.00	0.00	O
ATOM	1415	N	SER	147	39.371	71.328	24.177	1.00	0.00	N
ATOM	1416	HN	SER	147	38.988	71.824	24.981	1.00	0.00	H
ATOM	1417	CA	SER	147	38.617	70.213	23.658	1.00	0.00	C
ATOM	1418	CB	SER	147	37.334	69.947	24.469	1.00	0.00	C
ATOM	1419	OG	SER	147	37.660	69.564	25.797	1.00	0.00	O
ATOM	1420	HG	SER	147	36.869	69.400	26.297	1.00	0.00	H
ATOM	1421	C	SER	147	38.187	70.514	22.242	1.00	0.00	C
ATOM	1422	O	SER	147	38.345	69.685	21.351	1.00	0.00	O
ATOM	1423	N	LYS	148	37.675	71.732	21.979	1.00	0.00	N
ATOM	1424	HN	LYS	148	37.664	72.426	22.727	1.00	0.00	H
ATOM	1425	CA	LYS	148	37.143	72.102	20.696	1.00	0.00	C
ATOM	1426	CB	LYS	148	36.698	73.572	20.636	1.00	0.00	C
ATOM	1427	CG	LYS	148	35.954	73.936	19.348	1.00	0.00	C
ATOM	1428	CD	LYS	148	35.480	75.390	19.308	1.00	0.00	C
ATOM	1429	CE	LYS	148	34.746	75.827	20.575	1.00	0.00	C
ATOM	1430	NZ	LYS	148	34.586	77.296	20.576	1.00	0.00	N
ATOM	1431	HZ1	LYS	148	34.096	77.588	21.422	1.00	0.00	H
ATOM	1432	HZ2	LYS	148	34.126	77.633	19.730	1.00	0.00	H
ATOM	1433	HZ3	LYS	148	35.477	77.780	20.462	1.00	0.00	H
ATOM	1434	C	LYS	148	38.237	71.961	19.691	1.00	0.00	C
ATOM	1435	O	LYS	148	37.990	71.674	18.520	1.00	0.00	O
ATOM	1436	N	ILE	149	39.481	72.228	20.121	1.00	0.00	N
ATOM	1437	HN	ILE	149	39.618	72.521	21.088	1.00	0.00	H
ATOM	1438	CA	ILE	149	40.614	72.114	19.266	1.00	0.00	C
ATOM	1439	CB	ILE	149	41.856	72.531	19.972	1.00	0.00	C
ATOM	1440	CG1	ILE	149	41.554	73.873	20.650	1.00	0.00	C
ATOM	1441	CG2	ILE	149	43.020	72.574	18.972	1.00	0.00	C
ATOM	1442	CD1	ILE	149	40.715	74.802	19.772	1.00	0.00	C
ATOM	1443	C	ILE	149	40.711	70.663	18.914	1.00	0.00	C
ATOM	1444	O	ILE	149	40.857	70.300	17.748	1.00	0.00	O
ATOM	1445	N	ASN	150	40.553	69.801	19.940	1.00	0.00	N
ATOM	1446	HN	ASN	150	40.343	70.193	20.858	1.00	0.00	H
ATOM	1447	CA	ASN	150	40.658	68.374	19.836	1.00	0.00	C
ATOM	1448	CB	ASN	150	40.302	67.706	21.179	1.00	0.00	C
ATOM	1449	CG	ASN	150	40.775	66.264	21.172	1.00	0.00	C
ATOM	1450	OD1	ASN	150	40.737	65.592	20.144	1.00	0.00	O
ATOM	1451	ND2	ASN	150	41.239	65.772	22.353	1.00	0.00	N
ATOM	1452	1HD2	ASN	150	41.557	64.803	22.348	1.00	0.00	H
ATOM	1453	2HD2	ASN	150	41.271	66.330	23.206	1.00	0.00	H
ATOM	1454	C	ASN	150	39.664	67.912	18.813	1.00	0.00	C
ATOM	1455	O	ASN	150	40.010	67.250	17.836	1.00	0.00	O
ATOM	1456	N	GLU	151	38.402	68.334	18.965	1.00	0.00	N
ATOM	1457	HN	GLU	151	38.175	68.980	19.721	1.00	0.00	H
ATOM	1458	CA	GLU	151	37.369	67.892	18.083	1.00	0.00	C
ATOM	1459	CB	GLU	151	36.026	68.540	18.436	1.00	0.00	C
ATOM	1460	CG	GLU	151	34.834	67.936	17.707	1.00	0.00	C
ATOM	1461	CD	GLU	151	33.591	68.463	18.405	1.00	0.00	C
ATOM	1462	OE1	GLU	151	33.546	68.386	19.662	1.00	0.00	O
ATOM	1463	OE2	GLU	151	32.673	68.954	17.695	1.00	0.00	O
ATOM	1464	C	GLU	151	37.761	68.326	16.700	1.00	0.00	C
ATOM	1465	O	GLU	151	37.583	67.572	15.748	1.00	0.00	O
ATOM	1466	N	GLY	152	38.369	69.525	16.560	1.00	0.00	N
ATOM	1467	HN	GLY	152	38.587	70.067	17.396	1.00	0.00	H
ATOM	1468	CA	GLY	152	38.718	70.062	15.276	1.00	0.00	C
ATOM	1469	C	GLY	152	39.614	69.099	14.557	1.00	0.00	C
ATOM	1470	O	GLY	152	39.475	68.905	13.350	1.00	0.00	O
ATOM	1471	N	ILE	153	40.587	68.501	15.268	1.00	0.00	N
ATOM	1472	HN	ILE	153	40.655	68.667	16.272	1.00	0.00	H
ATOM	1473	CA	ILE	153	41.531	67.630	14.622	1.00	0.00	C
ATOM	1474	CB	ILE	153	42.680	67.337	15.527	1.00	0.00	C
ATOM	1475	CG1	ILE	153	43.322	68.671	15.935	1.00	0.00	C
ATOM	1476	CG2	ILE	153	43.636	66.375	14.798	1.00	0.00	C
ATOM	1477	CD1	ILE	153	44.228	68.582	17.155	1.00	0.00	C

ATOM	1478	C	ILE	153	40.961	66.297	14.158	1.00	0.00	C
ATOM	1479	O	ILE	153	41.047	65.971	12.975	1.00	0.00	O
ATOM	1480	N	GLY	154	40.348	65.493	15.060	1.00	0.00	N
ATOM	1481	HN	GLY	154	40.232	65.836	16.014	1.00	0.00	H
ATOM	1482	CA	GLY	154	39.848	64.171	14.740	1.00	0.00	C
ATOM	1483	C	GLY	154	38.688	64.227	13.782	1.00	0.00	C
ATOM	1484	O	GLY	154	38.566	63.359	12.921	1.00	0.00	O
ATOM	1485	N	ASP	155	37.763	65.201	13.931	1.00	0.00	N
ATOM	1486	HN	ASP	155	37.882	65.916	14.649	1.00	0.00	H
ATOM	1487	CA	ASP	155	36.608	65.224	13.070	1.00	0.00	C
ATOM	1488	CB	ASP	155	35.450	66.164	13.492	1.00	0.00	C
ATOM	1489	CG	ASP	155	35.706	67.612	13.096	1.00	0.00	C
ATOM	1490	OD1	ASP	155	35.537	67.909	11.883	1.00	0.00	O
ATOM	1491	OD2	ASP	155	36.026	68.449	13.977	1.00	0.00	O
ATOM	1492	C	ASP	155	37.048	65.633	11.708	1.00	0.00	C
ATOM	1493	O	ASP	155	36.510	65.144	10.721	1.00	0.00	O
ATOM	1494	N	LYS	156	38.063	66.520	11.628	1.00	0.00	N
ATOM	1495	HN	LYS	156	38.492	66.851	12.492	1.00	0.00	H
ATOM	1496	CA	LYS	156	38.564	67.017	10.379	1.00	0.00	C
ATOM	1497	CB	LYS	156	39.919	67.714	10.515	1.00	0.00	C
ATOM	1498	CG	LYS	156	40.546	68.019	9.154	1.00	0.00	C
ATOM	1499	CD	LYS	156	42.034	68.345	9.249	1.00	0.00	C
ATOM	1500	CE	LYS	156	42.881	67.073	9.163	1.00	0.00	C
ATOM	1501	NZ	LYS	156	42.185	65.978	9.877	1.00	0.00	N
ATOM	1502	HZ1	LYS	156	42.749	65.130	9.820	1.00	0.00	H
ATOM	1503	HZ2	LYS	156	41.235	65.835	9.535	1.00	0.00	H
ATOM	1504	HZ3	LYS	156	41.956	66.227	10.839	1.00	0.00	H
ATOM	1505	C	LYS	156	38.899	65.809	9.580	1.00	0.00	C
ATOM	1506	O	LYS	156	38.712	65.771	8.363	1.00	0.00	O
ATOM	1507	N	ILE	157	39.402	64.773	10.268	1.00	0.00	N
ATOM	1508	HN	ILE	157	39.479	64.802	11.285	1.00	0.00	H
ATOM	1509	CA	ILE	157	39.825	63.630	9.529	1.00	0.00	C
ATOM	1510	CB	ILE	157	40.465	62.556	10.368	1.00	0.00	C
ATOM	1511	CG1	ILE	157	39.495	61.588	11.070	1.00	0.00	C
ATOM	1512	CG2	ILE	157	41.259	63.360	11.402	1.00	0.00	C
ATOM	1513	CD1	ILE	157	38.968	60.468	10.169	1.00	0.00	C
ATOM	1514	C	ILE	157	38.594	63.081	8.885	1.00	0.00	C
ATOM	1515	O	ILE	157	38.569	62.818	7.687	1.00	0.00	O
ATOM	1516	N	GLY	158	37.499	62.990	9.662	1.00	0.00	N
ATOM	1517	HN	GLY	158	37.534	63.359	10.612	1.00	0.00	H
ATOM	1518	CA	GLY	158	36.286	62.390	9.192	1.00	0.00	C
ATOM	1519	C	GLY	158	35.857	63.068	7.926	1.00	0.00	C
ATOM	1520	O	GLY	158	35.496	62.394	6.963	1.00	0.00	O
ATOM	1521	N	MET	159	35.922	64.413	7.871	1.00	0.00	N
ATOM	1522	HN	MET	159	36.293	64.934	8.665	1.00	0.00	H
ATOM	1523	CA	MET	159	35.473	65.119	6.704	1.00	0.00	C
ATOM	1524	CB	MET	159	35.624	66.646	6.840	1.00	0.00	C
ATOM	1525	CG	MET	159	35.058	67.460	5.673	1.00	0.00	C
ATOM	1526	SD	MET	159	36.058	67.449	4.152	1.00	0.00	S
ATOM	1527	CE	MET	159	37.331	68.600	4.747	1.00	0.00	C
ATOM	1528	C	MET	159	36.280	64.718	5.512	1.00	0.00	C
ATOM	1529	O	MET	159	35.708	64.376	4.478	1.00	0.00	O
ATOM	1530	N	PHE	160	37.620	64.674	5.651	1.00	0.00	N
ATOM	1531	HN	PHE	160	38.018	64.807	6.581	1.00	0.00	H
ATOM	1532	CA	PHE	160	38.517	64.448	4.545	1.00	0.00	C
ATOM	1533	CB	PHE	160	39.962	64.219	5.023	1.00	0.00	C
ATOM	1534	CG	PHE	160	40.897	64.402	3.877	1.00	0.00	C
ATOM	1535	CD1	PHE	160	41.049	63.432	2.914	1.00	0.00	C
ATOM	1536	CD2	PHE	160	41.641	65.557	3.782	1.00	0.00	C
ATOM	1537	CE1	PHE	160	41.920	63.619	1.866	1.00	0.00	C
ATOM	1538	CE2	PHE	160	42.513	65.748	2.737	1.00	0.00	C
ATOM	1539	CZ	PHE	160	42.654	64.777	1.774	1.00	0.00	C
ATOM	1540	C	PHE	160	38.049	63.189	3.901	1.00	0.00	C
ATOM	1541	O	PHE	160	37.801	63.145	2.696	1.00	0.00	O
ATOM	1542	N	PHE	161	37.786	62.175	4.740	1.00	0.00	N
ATOM	1543	HN	PHE	161	37.941	62.302	5.740	1.00	0.00	H
ATOM	1544	CA	PHE	161	37.294	60.922	4.264	1.00	0.00	C
ATOM	1545	CB	PHE	161	37.026	59.981	5.459	1.00	0.00	C
ATOM	1546	CG	PHE	161	35.858	59.086	5.223	1.00	0.00	C
ATOM	1547	CD1	PHE	161	35.773	58.254	4.133	1.00	0.00	C
ATOM	1548	CD2	PHE	161	34.852	59.056	6.162	1.00	0.00	C
ATOM	1549	CE1	PHE	161	34.675	57.440	3.971	1.00	0.00	C
ATOM	1550	CE2	PHE	161	33.755	58.243	6.008	1.00	0.00	C
ATOM	1551	CZ	PHE	161	33.664	57.434	4.903	1.00	0.00	C

ATOM	1552	C	PHE	161	36.045	61.120	3.441	1.00	0.00	C
ATOM	1553	O	PHE	161	36.012	60.768	2.264	1.00	0.00	O
ATOM	1554	N	GLN	162	35.002	61.759	3.989	1.00	0.00	N
ATOM	1555	HN	GLN	162	35.083	62.165	4.921	1.00	0.00	H
ATOM	1556	CA	GLN	162	33.766	61.870	3.258	1.00	0.00	C
ATOM	1557	CB	GLN	162	32.633	62.477	4.103	1.00	0.00	C
ATOM	1558	CG	GLN	162	31.263	62.442	3.422	1.00	0.00	C
ATOM	1559	CD	GLN	162	30.769	61.001	3.422	1.00	0.00	C
ATOM	1560	OE1	GLN	162	31.308	60.146	2.722	1.00	0.00	O
ATOM	1561	NE2	GLN	162	29.712	60.722	4.231	1.00	0.00	N
ATOM	1562	1HE2	GLN	162	29.381	59.757	4.231	1.00	0.00	H
ATOM	1563	2HE2	GLN	162	29.265	61.431	4.812	1.00	0.00	H
ATOM	1564	C	GLN	162	33.947	62.713	2.033	1.00	0.00	C
ATOM	1565	O	GLN	162	33.365	62.423	0.989	1.00	0.00	O
ATOM	1566	N	SER	163	34.776	63.772	2.119	1.00	0.00	N
ATOM	1567	HN	SER	163	35.308	63.934	2.974	1.00	0.00	H
ATOM	1568	CA	SER	163	34.911	64.671	1.012	1.00	0.00	C
ATOM	1569	CB	SER	163	35.925	65.800	1.258	1.00	0.00	C
ATOM	1570	OG	SER	163	37.237	65.268	1.346	1.00	0.00	O
ATOM	1571	HG	SER	163	37.864	65.966	1.498	1.00	0.00	H
ATOM	1572	C	SER	163	35.363	63.882	-0.178	1.00	0.00	C
ATOM	1573	O	SER	163	35.000	64.191	-1.310	1.00	0.00	O
ATOM	1574	N	MET	164	36.211	62.867	0.055	1.00	0.00	N
ATOM	1575	HN	MET	164	36.511	62.695	1.014	1.00	0.00	H
ATOM	1576	CA	MET	164	36.715	62.012	-0.985	1.00	0.00	C
ATOM	1577	CB	MET	164	37.958	61.234	-0.535	1.00	0.00	C
ATOM	1578	CG	MET	164	38.844	60.891	-1.723	1.00	0.00	C
ATOM	1579	SD	MET	164	39.595	62.372	-2.469	1.00	0.00	S
ATOM	1580	CE	MET	164	40.807	62.666	-1.152	1.00	0.00	C
ATOM	1581	C	MET	164	35.702	61.023	-1.491	1.00	0.00	C
ATOM	1582	O	MET	164	35.704	60.681	-2.673	1.00	0.00	O
ATOM	1583	N	ALA	165	34.836	60.485	-0.607	1.00	0.00	N
ATOM	1584	HN	ALA	165	34.853	60.777	0.370	1.00	0.00	H
ATOM	1585	CA	ALA	165	33.888	59.497	-1.050	1.00	0.00	C
ATOM	1586	CB	ALA	165	32.986	58.966	0.077	1.00	0.00	C
ATOM	1587	C	ALA	165	33.004	60.169	-2.035	1.00	0.00	C
ATOM	1588	O	ALA	165	32.619	59.573	-3.035	1.00	0.00	O
ATOM	1589	N	THR	166	32.639	61.426	-1.729	1.00	0.00	N
ATOM	1590	HN	THR	166	32.977	61.813	-0.848	1.00	0.00	H
ATOM	1591	CA	THR	166	31.811	62.264	-2.547	1.00	0.00	C
ATOM	1592	CB	THR	166	31.730	63.649	-1.968	1.00	0.00	C
ATOM	1593	OG1	THR	166	31.212	63.657	-0.650	1.00	0.00	O
ATOM	1594	HG1	THR	166	31.161	64.532	-0.284	1.00	0.00	H
ATOM	1595	CG2	THR	166	30.900	64.525	-2.905	1.00	0.00	C
ATOM	1596	C	THR	166	32.508	62.541	-3.835	1.00	0.00	C
ATOM	1597	O	THR	166	32.009	62.248	-4.921	1.00	0.00	O
ATOM	1598	N	PHE	167	33.722	63.103	-3.716	1.00	0.00	N
ATOM	1599	HN	PHE	167	34.149	63.185	-2.793	1.00	0.00	H
ATOM	1600	CA	PHE	167	34.425	63.588	-4.864	1.00	0.00	C
ATOM	1601	CB	PHE	167	35.792	64.188	-4.478	1.00	0.00	C
ATOM	1602	CG	PHE	167	36.487	64.731	-5.684	1.00	0.00	C
ATOM	1603	CD1	PHE	167	36.282	66.033	-6.075	1.00	0.00	C
ATOM	1604	CD2	PHE	167	37.348	63.949	-6.422	1.00	0.00	C
ATOM	1605	CE1	PHE	167	36.919	66.548	-7.180	1.00	0.00	C
ATOM	1606	CE2	PHE	167	37.988	64.457	-7.529	1.00	0.00	C
ATOM	1607	CZ	PHE	167	37.774	65.760	-7.910	1.00	0.00	C
ATOM	1608	C	PHE	167	34.652	62.460	-5.808	1.00	0.00	C
ATOM	1609	O	PHE	167	34.188	62.492	-6.945	1.00	0.00	O
ATOM	1610	N	PHE	168	35.319	61.397	-5.334	1.00	0.00	N
ATOM	1611	HN	PHE	168	35.614	61.382	-4.358	1.00	0.00	H
ATOM	1612	CA	PHE	168	35.622	60.285	-6.181	1.00	0.00	C
ATOM	1613	CB	PHE	168	36.581	59.240	-5.583	1.00	0.00	C
ATOM	1614	CG	PHE	168	37.967	59.769	-5.712	1.00	0.00	C
ATOM	1615	CD1	PHE	168	38.473	60.062	-6.957	1.00	0.00	C
ATOM	1616	CD2	PHE	168	38.779	59.924	-4.615	1.00	0.00	C
ATOM	1617	CE1	PHE	168	39.752	60.541	-7.112	1.00	0.00	C
ATOM	1618	CE2	PHE	168	40.061	60.400	-4.766	1.00	0.00	C
ATOM	1619	CZ	PHE	168	40.551	60.714	-6.009	1.00	0.00	C
ATOM	1620	C	PHE	168	34.383	59.568	-6.587	1.00	0.00	C
ATOM	1621	O	PHE	168	34.329	59.075	-7.704	1.00	0.00	O
ATOM	1622	N	THR	169	33.365	59.425	-5.718	1.00	0.00	N
ATOM	1623	HN	THR	169	33.390	59.828	-4.781	1.00	0.00	H
ATOM	1624	CA	THR	169	32.239	58.666	-6.196	1.00	0.00	C
ATOM	1625	CB	THR	169	31.118	58.447	-5.195	1.00	0.00	C

ATOM	1626	OG1	THR	169	30.116	57.653	-5.813	1.00	0.00	O
ATOM	1627	HG1	THR	169	30.514	56.848	-6.123	1.00	0.00	H
ATOM	1628	CG2	THR	169	30.471	59.755	-4.691	1.00	0.00	C
ATOM	1629	C	THR	169	31.635	59.324	-7.399	1.00	0.00	C
ATOM	1630	O	THR	169	31.676	58.774	-8.498	1.00	0.00	O
ATOM	1631	N	GLY	170	31.205	60.585	-7.249	1.00	0.00	N
ATOM	1632	HN	GLY	170	31.390	61.064	-6.368	1.00	0.00	H
ATOM	1633	CA	GLY	170	30.501	61.281	-8.271	1.00	0.00	C
ATOM	1634	C	GLY	170	31.394	61.326	-9.452	1.00	0.00	C
ATOM	1635	O	GLY	170	30.927	61.488	-10.575	1.00	0.00	O
ATOM	1636	N	PHE	171	32.715	61.365	-9.212	1.00	0.00	N
ATOM	1637	HN	PHE	171	33.072	61.394	-8.257	1.00	0.00	H
ATOM	1638	CA	PHE	171	33.606	61.365	-10.326	1.00	0.00	C
ATOM	1639	CB	PHE	171	35.022	61.829	-9.947	1.00	0.00	C
ATOM	1640	CG	PHE	171	35.848	61.802	-11.187	1.00	0.00	C
ATOM	1641	CD1	PHE	171	35.765	62.825	-12.103	1.00	0.00	C
ATOM	1642	CD2	PHE	171	36.713	60.761	-11.432	1.00	0.00	C
ATOM	1643	CE1	PHE	171	36.526	62.806	-13.249	1.00	0.00	C
ATOM	1644	CE2	PHE	171	37.476	60.736	-12.576	1.00	0.00	C
ATOM	1645	CZ	PHE	171	37.383	61.760	-13.487	1.00	0.00	C
ATOM	1646	C	PHE	171	33.729	60.029	-10.979	1.00	0.00	C
ATOM	1647	O	PHE	171	33.164	59.824	-12.042	1.00	0.00	O
ATOM	1648	N	ILE	172	34.307	59.032	-10.271	1.00	0.00	N
ATOM	1649	HN	ILE	172	34.495	59.181	-9.280	1.00	0.00	H
ATOM	1650	CA	ILE	172	34.666	57.773	-10.860	1.00	0.00	C
ATOM	1651	CB	ILE	172	35.197	56.779	-9.870	1.00	0.00	C
ATOM	1652	CG1	ILE	172	36.635	57.148	-9.464	1.00	0.00	C
ATOM	1653	CG2	ILE	172	35.059	55.378	-10.490	1.00	0.00	C
ATOM	1654	CD1	ILE	172	36.772	58.511	-8.796	1.00	0.00	C
ATOM	1655	C	ILE	172	33.460	57.190	-11.500	1.00	0.00	C
ATOM	1656	O	ILE	172	33.472	56.937	-12.699	1.00	0.00	O
ATOM	1657	N	VAL	173	32.359	57.024	-10.762	1.00	0.00	N
ATOM	1658	HN	VAL	173	32.347	57.255	-9.769	1.00	0.00	H
ATOM	1659	CA	VAL	173	31.196	56.509	-11.420	1.00	0.00	C
ATOM	1660	CB	VAL	173	30.137	56.048	-10.463	1.00	0.00	C
ATOM	1661	CG1	VAL	173	30.705	54.860	-9.669	1.00	0.00	C
ATOM	1662	CG2	VAL	173	29.687	57.231	-9.589	1.00	0.00	C
ATOM	1663	C	VAL	173	30.593	57.555	-12.301	1.00	0.00	C
ATOM	1664	O	VAL	173	30.252	57.299	-13.453	1.00	0.00	O
ATOM	1665	N	GLY	174	30.524	58.793	-11.789	1.00	0.00	N
ATOM	1666	HN	GLY	174	31.011	58.985	-10.913	1.00	0.00	H
ATOM	1667	CA	GLY	174	29.800	59.856	-12.414	1.00	0.00	C
ATOM	1668	C	GLY	174	30.289	60.135	-13.792	1.00	0.00	C
ATOM	1669	O	GLY	174	29.553	60.727	-14.567	1.00	0.00	O
ATOM	1670	N	PHE	175	31.583	59.995	-14.080	1.00	0.00	N
ATOM	1671	HN	PHE	175	32.242	59.833	-13.319	1.00	0.00	H
ATOM	1672	CA	PHE	175	32.080	60.064	-15.423	1.00	0.00	C
ATOM	1673	CB	PHE	175	33.418	60.831	-15.430	1.00	0.00	C
ATOM	1674	CG	PHE	175	34.032	60.879	-16.786	1.00	0.00	C
ATOM	1675	CD1	PHE	175	33.487	61.646	-17.788	1.00	0.00	C
ATOM	1676	CD2	PHE	175	35.192	60.181	-17.036	1.00	0.00	C
ATOM	1677	CE1	PHE	175	34.075	61.690	-19.030	1.00	0.00	C
ATOM	1678	CE2	PHE	175	35.784	60.222	-18.276	1.00	0.00	C
ATOM	1679	CZ	PHE	175	35.223	60.977	-19.277	1.00	0.00	C
ATOM	1680	C	PHE	175	32.280	58.727	-16.095	1.00	0.00	C
ATOM	1681	O	PHE	175	31.739	58.447	-17.163	1.00	0.00	O
ATOM	1682	N	THR	176	33.012	57.815	-15.414	1.00	0.00	N
ATOM	1683	HN	THR	176	33.189	57.942	-14.418	1.00	0.00	H
ATOM	1684	CA	THR	176	33.540	56.665	-16.100	1.00	0.00	C
ATOM	1685	CB	THR	176	34.417	55.757	-15.284	1.00	0.00	C
ATOM	1686	OG1	THR	176	33.648	54.999	-14.362	1.00	0.00	O
ATOM	1687	HG1	THR	176	34.202	54.425	-13.846	1.00	0.00	H
ATOM	1688	CG2	THR	176	35.466	56.614	-14.552	1.00	0.00	C
ATOM	1689	C	THR	176	32.461	55.806	-16.639	1.00	0.00	C
ATOM	1690	O	THR	176	32.546	55.356	-17.780	1.00	0.00	O
ATOM	1691	N	ARG	177	31.404	55.550	-15.854	1.00	0.00	N
ATOM	1692	HN	ARG	177	31.274	55.995	-14.946	1.00	0.00	H
ATOM	1693	CA	ARG	177	30.476	54.608	-16.386	1.00	0.00	C
ATOM	1694	CB	ARG	177	29.958	53.624	-15.329	1.00	0.00	C
ATOM	1695	CG	ARG	177	31.101	52.849	-14.666	1.00	0.00	C
ATOM	1696	CD	ARG	177	31.587	51.616	-15.437	1.00	0.00	C
ATOM	1697	NE	ARG	177	32.179	52.051	-16.733	1.00	0.00	N
ATOM	1698	HE	ARG	177	33.157	52.336	-16.780	1.00	0.00	H
ATOM	1699	CZ	ARG	177	31.404	52.066	-17.857	1.00	0.00	C

ATOM	1700	NH1	ARG	177	30.086	51.723	-17.774	1.00	0.00	N
ATOM	1701	1HH1	ARG	177	29.686	51.456	-16.874	1.00	0.00	H
ATOM	1702	2HH1	ARG	177	29.507	51.734	-18.614	1.00	0.00	H
ATOM	1703	NH2	ARG	177	31.939	52.423	-19.061	1.00	0.00	N
ATOM	1704	1HH2	ARG	177	32.924	52.679	-19.123	1.00	0.00	H
ATOM	1705	2HH2	ARG	177	31.360	52.434	-19.901	1.00	0.00	H
ATOM	1706	C	ARG	177	29.330	55.322	-16.997	1.00	0.00	C
ATOM	1707	O	ARG	177	28.508	55.902	-16.296	1.00	0.00	O
ATOM	1708	N	GLY	178	29.198	55.214	-18.332	1.00	0.00	N
ATOM	1709	HN	GLY	178	29.849	54.636	-18.864	1.00	0.00	H
ATOM	1710	CA	GLY	178	28.143	55.911	-19.004	1.00	0.00	C
ATOM	1711	C	GLY	178	28.651	56.593	-20.231	1.00	0.00	C
ATOM	1712	O	GLY	178	27.985	56.503	-21.260	1.00	0.00	O
ATOM	1713	N	TRP	179	29.850	57.218	-20.192	1.00	0.00	N
ATOM	1714	HN	TRP	179	30.398	57.211	-19.332	1.00	0.00	H
ATOM	1715	CA	TRP	179	30.358	57.895	-21.363	1.00	0.00	C
ATOM	1716	CB	TRP	179	30.659	56.918	-22.513	1.00	0.00	C
ATOM	1717	CG	TRP	179	31.668	55.837	-22.208	1.00	0.00	C
ATOM	1718	CD2	TRP	179	31.668	54.566	-22.872	1.00	0.00	C
ATOM	1719	CD1	TRP	179	32.679	55.792	-21.290	1.00	0.00	C
ATOM	1720	NE1	TRP	179	33.304	54.567	-21.344	1.00	0.00	N
ATOM	1721	HE1	TRP	179	34.090	54.274	-20.764	1.00	0.00	H
ATOM	1722	CE2	TRP	179	32.690	53.801	-22.314	1.00	0.00	C
ATOM	1723	CE3	TRP	179	30.867	54.070	-23.861	1.00	0.00	C
ATOM	1724	CZ2	TRP	179	32.930	52.524	-22.737	1.00	0.00	C
ATOM	1725	CZ3	TRP	179	31.122	52.788	-24.294	1.00	0.00	C
ATOM	1726	CH2	TRP	179	32.133	52.026	-23.745	1.00	0.00	C
ATOM	1727	C	TRP	179	29.270	58.798	-21.883	1.00	0.00	C
ATOM	1728	O	TRP	179	28.729	58.564	-22.960	1.00	0.00	O
ATOM	1729	N	LYS	180	28.910	59.835	-21.111	1.00	0.00	N
ATOM	1730	HN	LYS	180	29.434	59.984	-20.249	1.00	0.00	H
ATOM	1731	CA	LYS	180	27.842	60.752	-21.406	1.00	0.00	C
ATOM	1732	CB	LYS	180	27.678	61.099	-22.897	1.00	0.00	C
ATOM	1733	CG	LYS	180	28.887	61.785	-23.530	1.00	0.00	C
ATOM	1734	CD	LYS	180	29.993	60.807	-23.920	1.00	0.00	C
ATOM	1735	CE	LYS	180	29.605	59.972	-25.143	1.00	0.00	C
ATOM	1736	NZ	LYS	180	30.598	58.903	-25.379	1.00	0.00	N
ATOM	1737	HZ1	LYS	180	30.339	58.347	-26.194	1.00	0.00	H
ATOM	1738	HZ2	LYS	180	30.733	58.322	-24.551	1.00	0.00	H
ATOM	1739	HZ3	LYS	180	31.544	59.276	-25.460	1.00	0.00	H
ATOM	1740	C	LYS	180	26.532	60.154	-20.972	1.00	0.00	C
ATOM	1741	O	LYS	180	25.527	60.861	-20.919	1.00	0.00	O
ATOM	1742	N	LEU	181	26.479	58.832	-20.699	1.00	0.00	N
ATOM	1743	HN	LEU	181	27.274	58.241	-20.941	1.00	0.00	H
ATOM	1744	CA	LEU	181	25.326	58.237	-20.074	1.00	0.00	C
ATOM	1745	CB	LEU	181	25.265	56.703	-20.235	1.00	0.00	C
ATOM	1746	CG	LEU	181	24.091	56.014	-19.498	1.00	0.00	C
ATOM	1747	CD1	LEU	181	24.337	55.903	-17.985	1.00	0.00	C
ATOM	1748	CD2	LEU	181	22.757	56.709	-19.802	1.00	0.00	C
ATOM	1749	C	LEU	181	25.446	58.552	-18.635	1.00	0.00	C
ATOM	1750	O	LEU	181	24.480	58.864	-17.945	1.00	0.00	O
ATOM	1751	N	THR	182	26.698	58.461	-18.165	1.00	0.00	N
ATOM	1752	HN	THR	182	27.432	58.158	-18.806	1.00	0.00	H
ATOM	1753	CA	THR	182	27.062	58.763	-16.822	1.00	0.00	C
ATOM	1754	CB	THR	182	28.512	58.573	-16.570	1.00	0.00	C
ATOM	1755	OG1	THR	182	28.688	58.380	-15.182	1.00	0.00	O
ATOM	1756	HG1	THR	182	29.616	58.258	-15.021	1.00	0.00	H
ATOM	1757	CG2	THR	182	29.341	59.749	-17.107	1.00	0.00	C
ATOM	1758	C	THR	182	26.788	60.211	-16.716	1.00	0.00	C
ATOM	1759	O	THR	182	26.607	60.755	-15.628	1.00	0.00	O
ATOM	1760	N	LEU	183	26.891	60.863	-17.888	1.00	0.00	N
ATOM	1761	HN	LEU	183	27.214	60.327	-18.694	1.00	0.00	H
ATOM	1762	CA	LEU	183	26.588	62.236	-18.098	1.00	0.00	C
ATOM	1763	CB	LEU	183	27.109	62.813	-19.424	1.00	0.00	C
ATOM	1764	CG	LEU	183	28.620	63.110	-19.406	1.00	0.00	C
ATOM	1765	CD1	LEU	183	28.945	64.225	-18.397	1.00	0.00	C
ATOM	1766	CD2	LEU	183	29.452	61.837	-19.186	1.00	0.00	C
ATOM	1767	C	LEU	183	25.120	62.410	-18.062	1.00	0.00	C
ATOM	1768	O	LEU	183	24.655	63.482	-17.710	1.00	0.00	O
ATOM	1769	N	VAL	184	24.339	61.402	-18.486	1.00	0.00	N
ATOM	1770	HN	VAL	184	24.745	60.560	-18.895	1.00	0.00	H
ATOM	1771	CA	VAL	184	22.924	61.543	-18.347	1.00	0.00	C
ATOM	1772	CB	VAL	184	22.152	60.319	-18.738	1.00	0.00	C
ATOM	1773	CG1	VAL	184	20.665	60.570	-18.431	1.00	0.00	C



ATOM	1774	CG2	VAL	184	22.446	60.004	-20.214	1.00	0.00	C
ATOM	1775	C	VAL	184	22.752	61.718	-16.883	1.00	0.00	C
ATOM	1776	O	VAL	184	21.963	62.544	-16.427	1.00	0.00	O
ATOM	1777	N	ILE	185	23.549	60.959	-16.109	1.00	0.00	N
ATOM	1778	HN	ILE	185	24.194	60.289	-16.528	1.00	0.00	H
ATOM	1779	CA	ILE	185	23.476	61.108	-14.691	1.00	0.00	C
ATOM	1780	CB	ILE	185	24.459	60.293	-13.905	1.00	0.00	C
ATOM	1781	CG1	ILE	185	24.204	58.782	-13.995	1.00	0.00	C
ATOM	1782	CG2	ILE	185	24.400	60.832	-12.468	1.00	0.00	C
ATOM	1783	CD1	ILE	185	24.610	58.145	-15.315	1.00	0.00	C
ATOM	1784	C	ILE	185	23.856	62.498	-14.347	1.00	0.00	C
ATOM	1785	O	ILE	185	23.027	63.239	-13.830	1.00	0.00	O
ATOM	1786	N	LEU	186	25.065	62.922	-14.768	1.00	0.00	N
ATOM	1787	HN	LEU	186	25.601	62.337	-15.409	1.00	0.00	H
ATOM	1788	CA	LEU	186	25.618	64.174	-14.338	1.00	0.00	C
ATOM	1789	CB	LEU	186	26.947	64.506	-15.038	1.00	0.00	C
ATOM	1790	CG	LEU	186	28.036	63.443	-14.803	1.00	0.00	C
ATOM	1791	CD1	LEU	186	29.393	63.893	-15.368	1.00	0.00	C
ATOM	1792	CD2	LEU	186	28.101	63.027	-13.325	1.00	0.00	C
ATOM	1793	C	LEU	186	24.637	65.246	-14.683	1.00	0.00	C
ATOM	1794	O	LEU	186	24.422	66.177	-13.911	1.00	0.00	O
ATOM	1795	N	ALA	187	24.024	65.163	-15.872	1.00	0.00	N
ATOM	1796	HN	ALA	187	24.219	64.387	-16.505	1.00	0.00	H
ATOM	1797	CA	ALA	187	23.095	66.180	-16.234	1.00	0.00	C
ATOM	1798	CB	ALA	187	22.676	66.088	-17.708	1.00	0.00	C
ATOM	1799	C	ALA	187	21.837	66.158	-15.420	1.00	0.00	C
ATOM	1800	O	ALA	187	21.667	66.982	-14.532	1.00	0.00	O
ATOM	1801	N	ILE	188	20.977	65.135	-15.577	1.00	0.00	N
ATOM	1802	HN	ILE	188	21.212	64.325	-16.150	1.00	0.00	H
ATOM	1803	CA	ILE	188	19.716	65.236	-14.902	1.00	0.00	C
ATOM	1804	CB	ILE	188	18.706	64.230	-15.409	1.00	0.00	C
ATOM	1805	CG1	ILE	188	19.211	62.779	-15.321	1.00	0.00	C
ATOM	1806	CG2	ILE	188	18.326	64.642	-16.842	1.00	0.00	C
ATOM	1807	CD1	ILE	188	19.120	62.131	-13.944	1.00	0.00	C
ATOM	1808	C	ILE	188	19.928	65.173	-13.427	1.00	0.00	C
ATOM	1809	O	ILE	188	19.450	66.032	-12.688	1.00	0.00	O
ATOM	1810	N	SER	189	20.727	64.200	-12.967	1.00	0.00	N
ATOM	1811	HN	SER	189	21.212	63.589	-13.624	1.00	0.00	H
ATOM	1812	CA	SER	189	20.903	64.013	-11.564	1.00	0.00	C
ATOM	1813	CB	SER	189	21.675	62.711	-11.241	1.00	0.00	C
ATOM	1814	OG	SER	189	21.628	62.429	-9.851	1.00	0.00	O
ATOM	1815	HG	SER	189	22.102	61.630	-9.653	1.00	0.00	H
ATOM	1816	C	SER	189	21.522	65.249	-10.970	1.00	0.00	C
ATOM	1817	O	SER	189	20.817	65.922	-10.219	1.00	0.00	O
ATOM	1818	N	PRO	190	22.727	65.683	-11.285	1.00	0.00	N
ATOM	1819	CA	PRO	190	23.211	66.867	-10.627	1.00	0.00	C
ATOM	1820	CD	PRO	190	23.831	64.770	-11.555	1.00	0.00	C
ATOM	1821	CB	PRO	190	24.685	66.983	-11.004	1.00	0.00	C
ATOM	1822	CG	PRO	190	25.115	65.510	-11.136	1.00	0.00	C
ATOM	1823	C	PRO	190	22.361	68.083	-10.865	1.00	0.00	C
ATOM	1824	O	PRO	190	22.446	69.007	-10.059	1.00	0.00	O
ATOM	1825	N	VAL	191	21.577	68.140	-11.963	1.00	0.00	N
ATOM	1826	HN	VAL	191	21.608	67.388	-12.651	1.00	0.00	H
ATOM	1827	CA	VAL	191	20.697	69.264	-12.163	1.00	0.00	C
ATOM	1828	CB	VAL	191	20.054	69.305	-13.517	1.00	0.00	C
ATOM	1829	CG1	VAL	191	18.922	70.347	-13.488	1.00	0.00	C
ATOM	1830	CG2	VAL	191	21.140	69.664	-14.543	1.00	0.00	C
ATOM	1831	C	VAL	191	19.598	69.243	-11.149	1.00	0.00	C
ATOM	1832	O	VAL	191	19.307	70.263	-10.528	1.00	0.00	O
ATOM	1833	N	LEU	192	18.950	68.077	-10.947	1.00	0.00	N
ATOM	1834	HN	LEU	192	19.210	67.243	-11.473	1.00	0.00	H
ATOM	1835	CA	LEU	192	17.890	68.027	-9.982	1.00	0.00	C
ATOM	1836	CB	LEU	192	17.190	66.659	-9.882	1.00	0.00	C
ATOM	1837	CG	LEU	192	16.154	66.387	-10.991	1.00	0.00	C
ATOM	1838	CD1	LEU	192	14.923	67.292	-10.826	1.00	0.00	C
ATOM	1839	CD2	LEU	192	16.766	66.483	-12.393	1.00	0.00	C
ATOM	1840	C	LEU	192	18.499	68.326	-8.658	1.00	0.00	C
ATOM	1841	O	LEU	192	17.973	69.127	-7.891	1.00	0.00	O
ATOM	1842	N	GLY	193	19.682	67.745	-8.401	1.00	0.00	N
ATOM	1843	HN	GLY	193	20.115	67.166	-9.120	1.00	0.00	H
ATOM	1844	CA	GLY	193	20.353	67.914	-7.148	1.00	0.00	C
ATOM	1845	C	GLY	193	20.540	69.378	-6.963	1.00	0.00	C
ATOM	1846	O	GLY	193	20.581	69.867	-5.837	1.00	0.00	O
ATOM	1847	N	LEU	194	20.717	70.104	-8.079	1.00	0.00	N

ATOM	1848	HN	LEU	194	20.734	69.629	-8.982	1.00	0.00	H
ATOM	1849	CA	LEU	194	20.882	71.524	-8.037	1.00	0.00	C
ATOM	1850	CB	LEU	194	21.164	72.093	-9.440	1.00	0.00	C
ATOM	1851	CG	LEU	194	21.271	73.625	-9.513	1.00	0.00	C
ATOM	1852	CD1	LEU	194	19.890	74.302	-9.491	1.00	0.00	C
ATOM	1853	CD2	LEU	194	22.205	74.155	-8.415	1.00	0.00	C
ATOM	1854	C	LEU	194	19.634	72.153	-7.498	1.00	0.00	C
ATOM	1855	O	LEU	194	19.701	72.977	-6.590	1.00	0.00	O
ATOM	1856	N	SER	195	18.452	71.763	-8.014	1.00	0.00	N
ATOM	1857	HN	SER	195	18.419	71.027	-8.719	1.00	0.00	H
ATOM	1858	CA	SER	195	17.239	72.388	-7.567	1.00	0.00	C
ATOM	1859	CB	SER	195	15.989	71.868	-8.304	1.00	0.00	C
ATOM	1860	OG	SER	195	15.778	70.493	-8.017	1.00	0.00	O
ATOM	1861	HG	SER	195	15.008	70.173	-8.471	1.00	0.00	H
ATOM	1862	C	SER	195	17.075	72.077	-6.114	1.00	0.00	C
ATOM	1863	O	SER	195	16.624	72.917	-5.338	1.00	0.00	O
ATOM	1864	N	ALA	196	17.426	70.842	-5.713	1.00	0.00	N
ATOM	1865	HN	ALA	196	17.794	70.178	-6.394	1.00	0.00	H
ATOM	1866	CA	ALA	196	17.290	70.445	-4.343	1.00	0.00	C
ATOM	1867	CB	ALA	196	17.609	68.956	-4.127	1.00	0.00	C
ATOM	1868	C	ALA	196	18.221	71.244	-3.482	1.00	0.00	C
ATOM	1869	O	ALA	196	17.822	71.783	-2.454	1.00	0.00	O
ATOM	1870	N	ALA	197	19.494	71.385	-3.890	1.00	0.00	N
ATOM	1871	HN	ALA	197	19.797	71.005	-4.787	1.00	0.00	H
ATOM	1872	CA	ALA	197	20.418	72.079	-3.043	1.00	0.00	C
ATOM	1873	CB	ALA	197	21.845	72.108	-3.616	1.00	0.00	C
ATOM	1874	C	ALA	197	19.963	73.494	-2.885	1.00	0.00	C
ATOM	1875	O	ALA	197	19.931	74.013	-1.774	1.00	0.00	O
ATOM	1876	N	VAL	198	19.584	74.154	-3.995	1.00	0.00	N
ATOM	1877	HN	VAL	198	19.561	73.654	-4.883	1.00	0.00	H
ATOM	1878	CA	VAL	198	19.211	75.541	-3.968	1.00	0.00	C
ATOM	1879	CB	VAL	198	18.965	76.073	-5.352	1.00	0.00	C
ATOM	1880	CG1	VAL	198	18.486	77.531	-5.257	1.00	0.00	C
ATOM	1881	CG2	VAL	198	20.247	75.886	-6.182	1.00	0.00	C
ATOM	1882	C	VAL	198	17.955	75.772	-3.185	1.00	0.00	C
ATOM	1883	O	VAL	198	17.957	76.500	-2.196	1.00	0.00	O
ATOM	1884	N	TRP	199	16.851	75.114	-3.580	1.00	0.00	N
ATOM	1885	HN	TRP	199	16.918	74.409	-4.314	1.00	0.00	H
ATOM	1886	CA	TRP	199	15.580	75.396	-2.977	1.00	0.00	C
ATOM	1887	CB	TRP	199	14.429	74.580	-3.598	1.00	0.00	C
ATOM	1888	CG	TRP	199	13.040	75.077	-3.259	1.00	0.00	C
ATOM	1889	CD2	TRP	199	12.298	74.791	-2.058	1.00	0.00	C
ATOM	1890	CD1	TRP	199	12.243	75.883	-4.018	1.00	0.00	C
ATOM	1891	NE1	TRP	199	11.053	76.114	-3.373	1.00	0.00	N
ATOM	1892	HE1	TRP	199	10.283	76.682	-3.727	1.00	0.00	H
ATOM	1893	CE2	TRP	199	11.074	75.450	-2.167	1.00	0.00	C
ATOM	1894	CE3	TRP	199	12.608	74.044	-0.957	1.00	0.00	C
ATOM	1895	CZ2	TRP	199	10.140	75.373	-1.173	1.00	0.00	C
ATOM	1896	CZ3	TRP	199	11.662	73.967	0.043	1.00	0.00	C
ATOM	1897	CH2	TRP	199	10.452	74.619	-0.064	1.00	0.00	C
ATOM	1898	C	TRP	199	15.641	75.034	-1.527	1.00	0.00	C
ATOM	1899	O	TRP	199	15.272	75.832	-0.670	1.00	0.00	O
ATOM	1900	N	ALA	200	16.124	73.817	-1.206	1.00	0.00	N
ATOM	1901	HN	ALA	200	16.484	73.201	-1.935	1.00	0.00	H
ATOM	1902	CA	ALA	200	16.131	73.390	0.162	1.00	0.00	C
ATOM	1903	CB	ALA	200	16.661	71.959	0.339	1.00	0.00	C
ATOM	1904	C	ALA	200	17.016	74.279	0.982	1.00	0.00	C
ATOM	1905	O	ALA	200	16.609	74.775	2.030	1.00	0.00	O
ATOM	1906	N	LYS	201	18.247	74.539	0.513	1.00	0.00	N
ATOM	1907	HN	LYS	201	18.531	74.180	-0.399	1.00	0.00	H
ATOM	1908	CA	LYS	201	19.165	75.321	1.293	1.00	0.00	C
ATOM	1909	CB	LYS	201	20.576	75.421	0.689	1.00	0.00	C
ATOM	1910	CG	LYS	201	21.301	74.078	0.593	1.00	0.00	C
ATOM	1911	CD	LYS	201	21.444	73.347	1.926	1.00	0.00	C
ATOM	1912	CE	LYS	201	21.937	71.908	1.768	1.00	0.00	C
ATOM	1913	NZ	LYS	201	22.167	71.307	3.098	1.00	0.00	N
ATOM	1914	HZ1	LYS	201	22.496	70.347	2.993	1.00	0.00	H
ATOM	1915	HZ2	LYS	201	21.341	71.366	3.693	1.00	0.00	H
ATOM	1916	HZ3	LYS	201	22.800	71.868	3.668	1.00	0.00	H
ATOM	1917	C	LYS	201	18.642	76.706	1.404	1.00	0.00	C
ATOM	1918	O	LYS	201	18.809	77.354	2.435	1.00	0.00	O
ATOM	1919	N	ILE	202	18.014	77.208	0.325	1.00	0.00	N
ATOM	1920	HN	ILE	202	17.876	76.636	-0.508	1.00	0.00	H
ATOM	1921	CA	ILE	202	17.545	78.556	0.368	1.00	0.00	C

ATOM	1922	CB	ILE	202	17.091	79.112	-0.959	1.00	0.00	C
ATOM	1923	CG1	ILE	202	15.932	78.329	-1.587	1.00	0.00	C
ATOM	1924	CG2	ILE	202	18.333	79.218	-1.854	1.00	0.00	C
ATOM	1925	CD1	ILE	202	15.358	79.016	-2.825	1.00	0.00	C
ATOM	1926	C	ILE	202	16.481	78.670	1.404	1.00	0.00	C
ATOM	1927	O	ILE	202	16.465	79.621	2.180	1.00	0.00	O
ATOM	1928	N	LEU	203	15.569	77.690	1.465	1.00	0.00	N
ATOM	1929	HN	LEU	203	15.609	76.912	0.807	1.00	0.00	H
ATOM	1930	CA	LEU	203	14.545	77.739	2.450	1.00	0.00	C
ATOM	1931	CB	LEU	203	13.534	76.603	2.278	1.00	0.00	C
ATOM	1932	CG	LEU	203	12.317	76.725	3.201	1.00	0.00	C
ATOM	1933	CD1	LEU	203	11.560	78.041	2.961	1.00	0.00	C
ATOM	1934	CD2	LEU	203	11.414	75.501	3.036	1.00	0.00	C
ATOM	1935	C	LEU	203	15.219	77.617	3.778	1.00	0.00	C
ATOM	1936	O	LEU	203	14.810	78.256	4.737	1.00	0.00	O
ATOM	1937	N	SER	204	16.295	76.812	3.873	1.00	0.00	N
ATOM	1938	HN	SER	204	16.634	76.333	3.038	1.00	0.00	H
ATOM	1939	CA	SER	204	16.978	76.611	5.125	1.00	0.00	C
ATOM	1940	CB	SER	204	18.249	75.754	4.971	1.00	0.00	C
ATOM	1941	OG	SER	204	17.928	74.465	4.467	1.00	0.00	O
ATOM	1942	HG	SER	204	18.712	73.937	4.372	1.00	0.00	H
ATOM	1943	C	SER	204	17.409	77.943	5.666	1.00	0.00	C
ATOM	1944	O	SER	204	17.200	78.241	6.842	1.00	0.00	O
ATOM	1945	N	SER	205	18.025	78.792	4.824	1.00	0.00	N
ATOM	1946	HN	SER	205	18.192	78.524	3.854	1.00	0.00	H
ATOM	1947	CA	SER	205	18.445	80.078	5.302	1.00	0.00	C
ATOM	1948	CB	SER	205	19.184	80.898	4.237	1.00	0.00	C
ATOM	1949	OG	SER	205	18.296	81.212	3.175	1.00	0.00	O
ATOM	1950	HG	SER	205	18.754	81.720	2.515	1.00	0.00	H
ATOM	1951	C	SER	205	17.200	80.824	5.647	1.00	0.00	C
ATOM	1952	O	SER	205	17.159	81.606	6.595	1.00	0.00	O
ATOM	1953	N	PHE	206	16.129	80.552	4.886	1.00	0.00	N
ATOM	1954	HN	PHE	206	16.219	79.848	4.154	1.00	0.00	H
ATOM	1955	CA	PHE	206	14.865	81.204	5.053	1.00	0.00	C
ATOM	1956	CB	PHE	206	13.812	80.715	4.045	1.00	0.00	C
ATOM	1957	CG	PHE	206	12.557	81.489	4.257	1.00	0.00	C
ATOM	1958	CD1	PHE	206	12.443	82.764	3.756	1.00	0.00	C
ATOM	1959	CD2	PHE	206	11.494	80.941	4.937	1.00	0.00	C
ATOM	1960	CE1	PHE	206	11.290	83.489	3.937	1.00	0.00	C
ATOM	1961	CE2	PHE	206	10.337	81.662	5.121	1.00	0.00	C
ATOM	1962	CZ	PHE	206	10.234	82.938	4.622	1.00	0.00	C
ATOM	1963	C	PHE	206	14.368	80.890	6.431	1.00	0.00	C
ATOM	1964	O	PHE	206	13.738	81.730	7.070	1.00	0.00	O
ATOM	1965	N	THR	207	14.617	79.655	6.914	1.00	0.00	N
ATOM	1966	HN	THR	207	15.131	78.995	6.331	1.00	0.00	H
ATOM	1967	CA	THR	207	14.187	79.236	8.215	1.00	0.00	C
ATOM	1968	CB	THR	207	14.604	77.828	8.550	1.00	0.00	C
ATOM	1969	OG1	THR	207	14.038	76.906	7.631	1.00	0.00	O
ATOM	1970	HG1	THR	207	14.301	76.018	7.842	1.00	0.00	H
ATOM	1971	CG2	THR	207	14.150	77.494	9.981	1.00	0.00	C
ATOM	1972	C	THR	207	14.848	80.131	9.207	1.00	0.00	C
ATOM	1973	O	THR	207	14.209	80.637	10.127	1.00	0.00	O
ATOM	1974	N	ASP	208	16.155	80.376	9.014	1.00	0.00	N
ATOM	1975	HN	ASP	208	16.623	79.981	8.198	1.00	0.00	H
ATOM	1976	CA	ASP	208	16.903	81.181	9.931	1.00	0.00	C
ATOM	1977	CB	ASP	208	18.365	81.351	9.479	1.00	0.00	C
ATOM	1978	CG	ASP	208	19.180	82.078	10.544	1.00	0.00	C
ATOM	1979	OD1	ASP	208	18.596	82.761	11.427	1.00	0.00	O
ATOM	1980	OD2	ASP	208	20.430	81.949	10.478	1.00	0.00	O
ATOM	1981	C	ASP	208	16.287	82.547	9.978	1.00	0.00	C
ATOM	1982	O	ASP	208	16.034	83.080	11.056	1.00	0.00	O
ATOM	1983	N	LYS	209	15.985	83.134	8.807	1.00	0.00	N
ATOM	1984	HN	LYS	209	16.151	82.632	7.935	1.00	0.00	H
ATOM	1985	CA	LYS	209	15.432	84.457	8.769	1.00	0.00	C
ATOM	1986	CB	LYS	209	15.145	84.920	7.324	1.00	0.00	C
ATOM	1987	CG	LYS	209	14.185	86.106	7.179	1.00	0.00	C
ATOM	1988	CD	LYS	209	12.712	85.712	7.337	1.00	0.00	C
ATOM	1989	CE	LYS	209	11.740	86.889	7.312	1.00	0.00	C
ATOM	1990	NZ	LYS	209	11.553	87.427	8.676	1.00	0.00	N
ATOM	1991	HZ1	LYS	209	10.904	88.213	8.659	1.00	0.00	H
ATOM	1992	HZ2	LYS	209	12.441	87.676	9.112	1.00	0.00	H
ATOM	1993	HZ3	LYS	209	11.259	86.704	9.333	1.00	0.00	H
ATOM	1994	C	LYS	209	14.163	84.441	9.552	1.00	0.00	C
ATOM	1995	O	LYS	209	13.864	85.378	10.292	1.00	0.00	O

ATOM	1996	N	GLU	210	13.387	83.356	9.423	1.00	0.00	N
ATOM	1997	HN	GLU	210	13.682	82.584	8.825	1.00	0.00	H
ATOM	1998	CA	GLU	210	12.145	83.283	10.125	1.00	0.00	C
ATOM	1999	CB	GLU	210	11.374	81.986	9.839	1.00	0.00	C
ATOM	2000	CG	GLU	210	10.902	81.876	8.387	1.00	0.00	C
ATOM	2001	CD	GLU	210	9.887	82.978	8.114	1.00	0.00	C
ATOM	2002	OE1	GLU	210	10.330	84.111	7.791	1.00	0.00	O
ATOM	2003	OE2	GLU	210	8.661	82.701	8.219	1.00	0.00	O
ATOM	2004	C	GLU	210	12.454	83.333	11.586	1.00	0.00	C
ATOM	2005	O	GLU	210	11.742	83.976	12.354	1.00	0.00	O
ATOM	2006	N	LEU	211	13.546	82.662	11.996	1.00	0.00	N
ATOM	2007	HN	LEU	211	14.107	82.177	11.295	1.00	0.00	H
ATOM	2008	CA	LEU	211	13.964	82.592	13.369	1.00	0.00	C
ATOM	2009	CB	LEU	211	15.242	81.751	13.551	1.00	0.00	C
ATOM	2010	CG	LEU	211	15.097	80.267	13.165	1.00	0.00	C
ATOM	2011	CD1	LEU	211	16.421	79.512	13.378	1.00	0.00	C
ATOM	2012	CD2	LEU	211	13.914	79.608	13.891	1.00	0.00	C
ATOM	2013	C	LEU	211	14.312	83.966	13.881	1.00	0.00	C
ATOM	2014	O	LEU	211	13.987	84.300	15.017	1.00	0.00	O
ATOM	2015	N	LEU	212	14.997	84.796	13.066	1.00	0.00	N
ATOM	2016	HN	LEU	212	15.191	84.494	12.111	1.00	0.00	H
ATOM	2017	CA	LEU	212	15.465	86.090	13.490	1.00	0.00	C
ATOM	2018	CB	LEU	212	16.248	86.797	12.363	1.00	0.00	C
ATOM	2019	CG	LEU	212	16.803	88.197	12.704	1.00	0.00	C
ATOM	2020	CD1	LEU	212	15.703	89.273	12.764	1.00	0.00	C
ATOM	2021	CD2	LEU	212	17.662	88.153	13.977	1.00	0.00	C
ATOM	2022	C	LEU	212	14.295	86.945	13.854	1.00	0.00	C
ATOM	2023	O	LEU	212	14.261	87.551	14.924	1.00	0.00	O
ATOM	2024	N	ALA	213	13.282	86.987	12.977	1.00	0.00	N
ATOM	2025	HN	ALA	213	13.331	86.439	12.118	1.00	0.00	H
ATOM	2026	CA	ALA	213	12.131	87.798	13.240	1.00	0.00	C
ATOM	2027	CB	ALA	213	11.047	87.671	12.153	1.00	0.00	C
ATOM	2028	C	ALA	213	11.547	87.284	14.518	1.00	0.00	C
ATOM	2029	O	ALA	213	11.040	88.045	15.338	1.00	0.00	O
ATOM	2030	N	TYR	214	11.624	85.956	14.705	1.00	0.00	N
ATOM	2031	HN	TYR	214	12.078	85.406	13.976	1.00	0.00	H
ATOM	2032	CA	TYR	214	11.120	85.249	15.845	1.00	0.00	C
ATOM	2033	CB	TYR	214	11.374	83.741	15.608	1.00	0.00	C
ATOM	2034	CG	TYR	214	11.333	82.853	16.803	1.00	0.00	C
ATOM	2035	CD1	TYR	214	10.159	82.315	17.269	1.00	0.00	C
ATOM	2036	CD2	TYR	214	12.505	82.531	17.448	1.00	0.00	C
ATOM	2037	CE1	TYR	214	10.159	81.478	18.362	1.00	0.00	C
ATOM	2038	CE2	TYR	214	12.511	81.696	18.539	1.00	0.00	C
ATOM	2039	CZ	TYR	214	11.334	81.165	19.001	1.00	0.00	C
ATOM	2040	OH	TYR	214	11.336	80.304	20.120	1.00	0.00	O
ATOM	2041	HH	TYR	214	12.149	80.088	20.562	1.00	0.00	H
ATOM	2042	C	TYR	214	11.785	85.759	17.097	1.00	0.00	C
ATOM	2043	O	TYR	214	11.114	86.076	18.077	1.00	0.00	O
ATOM	2044	N	ALA	215	13.118	85.916	17.092	1.00	0.00	N
ATOM	2045	HN	ALA	215	13.643	85.732	16.237	1.00	0.00	H
ATOM	2046	CA	ALA	215	13.815	86.341	18.276	1.00	0.00	C
ATOM	2047	CB	ALA	215	15.338	86.382	18.070	1.00	0.00	C
ATOM	2048	C	ALA	215	13.374	87.713	18.681	1.00	0.00	C
ATOM	2049	O	ALA	215	13.195	87.990	19.866	1.00	0.00	O
ATOM	2050	N	LYS	216	13.192	88.618	17.704	1.00	0.00	N
ATOM	2051	HN	LYS	216	13.302	88.339	16.729	1.00	0.00	H
ATOM	2052	CA	LYS	216	12.844	89.973	18.022	1.00	0.00	C
ATOM	2053	CB	LYS	216	12.806	90.868	16.781	1.00	0.00	C
ATOM	2054	CG	LYS	216	14.127	90.744	16.029	1.00	0.00	C
ATOM	2055	CD	LYS	216	15.325	90.883	16.968	1.00	0.00	C
ATOM	2056	CE	LYS	216	16.591	90.206	16.446	1.00	0.00	C
ATOM	2057	NZ	LYS	216	17.444	89.810	17.588	1.00	0.00	N
ATOM	2058	HZ1	LYS	216	18.289	89.358	17.239	1.00	0.00	H
ATOM	2059	HZ2	LYS	216	16.944	89.227	18.259	1.00	0.00	H
ATOM	2060	HZ3	LYS	216	17.653	90.596	18.204	1.00	0.00	H
ATOM	2061	C	LYS	216	11.501	89.988	18.673	1.00	0.00	C
ATOM	2062	O	LYS	216	11.274	90.708	19.644	1.00	0.00	O
ATOM	2063	N	ALA	217	10.581	89.157	18.156	1.00	0.00	N
ATOM	2064	HN	ALA	217	10.849	88.549	17.382	1.00	0.00	H
ATOM	2065	CA	ALA	217	9.240	89.092	18.650	1.00	0.00	C
ATOM	2066	CB	ALA	217	8.372	88.076	17.885	1.00	0.00	C
ATOM	2067	C	ALA	217	9.296	88.660	20.082	1.00	0.00	C
ATOM	2068	O	ALA	217	8.464	89.065	20.892	1.00	0.00	O
ATOM	2069	N	GLY	218	10.261	87.787	20.417	1.00	0.00	N

ATOM	2070	HN	GLY	218	10.901	87.470	19.689	1.00	0.00	H
ATOM	2071	CA	GLY	218	10.437	87.277	21.749	1.00	0.00	C
ATOM	2072	C	GLY	218	10.839	88.356	22.729	1.00	0.00	C
ATOM	2073	O	GLY	218	10.498	88.279	23.908	1.00	0.00	O
ATOM	2074	N	ALA	219	11.671	89.333	22.313	1.00	0.00	N
ATOM	2075	HN	ALA	219	12.013	89.326	21.352	1.00	0.00	H
ATOM	2076	CA	ALA	219	12.084	90.388	23.208	1.00	0.00	C
ATOM	2077	CB	ALA	219	13.165	91.297	22.602	1.00	0.00	C
ATOM	2078	C	ALA	219	10.910	91.255	23.534	1.00	0.00	C
ATOM	2079	O	ALA	219	10.707	91.652	24.682	1.00	0.00	O
ATOM	2080	N	VAL	220	10.105	91.573	22.504	1.00	0.00	N
ATOM	2081	HN	VAL	220	10.338	91.237	21.570	1.00	0.00	H
ATOM	2082	CA	VAL	220	8.930	92.371	22.684	1.00	0.00	C
ATOM	2083	CB	VAL	220	8.264	92.836	21.417	1.00	0.00	C
ATOM	2084	CG1	VAL	220	7.592	91.657	20.702	1.00	0.00	C
ATOM	2085	CG2	VAL	220	7.290	93.962	21.798	1.00	0.00	C
ATOM	2086	C	VAL	220	7.996	91.524	23.480	1.00	0.00	C
ATOM	2087	O	VAL	220	6.948	91.970	23.936	1.00	0.00	O
ATOM	2088	N	ALA	221	8.285	90.214	23.513	1.00	0.00	N
ATOM	2089	HN	ALA	221	9.031	89.864	22.912	1.00	0.00	H
ATOM	2090	CA	ALA	221	7.594	89.288	24.353	1.00	0.00	C
ATOM	2091	CB	ALA	221	7.822	87.799	24.019	1.00	0.00	C
ATOM	2092	C	ALA	221	7.979	89.524	25.799	1.00	0.00	C
ATOM	2093	O	ALA	221	7.266	89.082	26.693	1.00	0.00	O
ATOM	2094	N	GLU	222	9.199	90.042	26.091	1.00	0.00	N
ATOM	2095	HN	GLU	222	9.832	90.305	25.336	1.00	0.00	H
ATOM	2096	CA	GLU	222	9.608	90.224	27.471	1.00	0.00	C
ATOM	2097	CB	GLU	222	11.131	90.262	27.653	1.00	0.00	C
ATOM	2098	CG	GLU	222	11.789	88.915	27.379	1.00	0.00	C
ATOM	2099	CD	GLU	222	13.192	88.964	27.957	1.00	0.00	C
ATOM	2100	OE1	GLU	222	13.520	89.975	28.635	1.00	0.00	O
ATOM	2101	OE2	GLU	222	13.948	87.980	27.741	1.00	0.00	O
ATOM	2102	C	GLU	222	9.073	91.410	28.257	1.00	0.00	C
ATOM	2103	O	GLU	222	8.281	91.230	29.179	1.00	0.00	O
ATOM	2104	N	GLU	223	9.446	92.663	27.893	1.00	0.00	N
ATOM	2105	HN	GLU	223	9.998	92.789	27.045	1.00	0.00	H
ATOM	2106	CA	GLU	223	9.080	93.831	28.679	1.00	0.00	C
ATOM	2107	CB	GLU	223	7.572	94.131	28.696	1.00	0.00	C
ATOM	2108	CG	GLU	223	7.032	94.687	27.376	1.00	0.00	C
ATOM	2109	CD	GLU	223	7.116	93.593	26.326	1.00	0.00	C
ATOM	2110	OE1	GLU	223	8.194	93.478	25.686	1.00	0.00	O
ATOM	2111	OE2	GLU	223	6.106	92.857	26.154	1.00	0.00	O
ATOM	2112	C	GLU	223	9.544	93.672	30.111	1.00	0.00	C
ATOM	2113	O	GLU	223	10.214	92.696	30.442	1.00	0.00	O
ATOM	2114	N	VAL	224	9.241	94.669	30.989	1.00	0.00	N
ATOM	2115	HN	VAL	224	8.721	95.481	30.656	1.00	0.00	H
ATOM	2116	CA	VAL	224	9.635	94.610	32.380	1.00	0.00	C
ATOM	2117	CB	VAL	224	9.696	95.942	33.074	1.00	0.00	C
ATOM	2118	CG1	VAL	224	9.867	95.689	34.582	1.00	0.00	C
ATOM	2119	CG2	VAL	224	10.861	96.749	32.468	1.00	0.00	C
ATOM	2120	C	VAL	224	8.710	93.706	33.146	1.00	0.00	C
ATOM	2121	O	VAL	224	7.514	93.625	32.876	1.00	0.00	O
ATOM	2122	N	LEU	225	9.334	92.827	33.952	1.00	0.00	N
ATOM	2123	HN	LEU	225	10.353	92.852	33.921	1.00	0.00	H
ATOM	2124	CA	LEU	225	8.766	91.857	34.851	1.00	0.00	C
ATOM	2125	CB	LEU	225	9.531	90.532	34.710	1.00	0.00	C
ATOM	2126	CG	LEU	225	9.798	90.159	33.230	1.00	0.00	C
ATOM	2127	CD1	LEU	225	8.518	90.229	32.383	1.00	0.00	C
ATOM	2128	CD2	LEU	225	10.967	90.959	32.626	1.00	0.00	C
ATOM	2129	C	LEU	225	8.741	92.248	36.307	1.00	0.00	C
ATOM	2130	O	LEU	225	8.019	91.639	37.093	1.00	0.00	O
ATOM	2131	N	ALA	226	9.644	93.165	36.719	1.00	0.00	N
ATOM	2132	HN	ALA	226	10.178	93.657	36.003	1.00	0.00	H
ATOM	2133	CA	ALA	226	9.910	93.500	38.101	1.00	0.00	C
ATOM	2134	CB	ALA	226	11.371	93.906	38.347	1.00	0.00	C
ATOM	2135	C	ALA	226	9.062	94.635	38.580	1.00	0.00	C
ATOM	2136	O	ALA	226	8.088	95.015	37.935	1.00	0.00	O
ATOM	2137	N	ALA	227	9.423	95.169	39.775	1.00	0.00	N
ATOM	2138	HN	ALA	227	10.234	94.773	40.251	1.00	0.00	H
ATOM	2139	CA	ALA	227	8.733	96.257	40.409	1.00	0.00	C
ATOM	2140	CB	ALA	227	8.626	97.502	39.512	1.00	0.00	C
ATOM	2141	C	ALA	227	7.363	95.763	40.693	1.00	0.00	C
ATOM	2142	O	ALA	227	6.417	96.515	40.907	1.00	0.00	O
ATOM	2143	N	ILE	228	7.278	94.441	40.818	1.00	0.00	N

ATOM	2144	HN	ILE	228	8.150	93.911	40.806	1.00	0.00	H
ATOM	2145	CA	ILE	228	6.069	93.708	40.967	1.00	0.00	C
ATOM	2146	CB	ILE	228	6.344	92.249	41.146	1.00	0.00	C
ATOM	2147	CG1	ILE	228	5.034	91.457	41.251	1.00	0.00	C
ATOM	2148	CG2	ILE	228	7.263	92.112	42.369	1.00	0.00	C
ATOM	2149	CD1	ILE	228	4.182	91.524	39.987	1.00	0.00	C
ATOM	2150	C	ILE	228	5.299	94.177	42.148	1.00	0.00	C
ATOM	2151	O	ILE	228	4.079	94.157	42.078	1.00	0.00	O
ATOM	2152	N	ARG	229	5.940	94.577	43.266	1.00	0.00	N
ATOM	2153	HN	ARG	229	6.959	94.604	43.303	1.00	0.00	H
ATOM	2154	CA	ARG	229	5.148	94.966	44.408	1.00	0.00	C
ATOM	2155	CB	ARG	229	5.994	95.525	45.564	1.00	0.00	C
ATOM	2156	CG	ARG	229	5.157	95.952	46.772	1.00	0.00	C
ATOM	2157	CD	ARG	229	5.765	97.115	47.559	1.00	0.00	C
ATOM	2158	NE	ARG	229	7.075	96.664	48.104	1.00	0.00	N
ATOM	2159	HE	ARG	229	7.249	95.673	48.271	1.00	0.00	H
ATOM	2160	CZ	ARG	229	8.042	97.589	48.378	1.00	0.00	C
ATOM	2161	NH1	ARG	229	7.802	98.906	48.113	1.00	0.00	N
ATOM	2162	1HH1	ARG	229	8.524	99.597	48.318	1.00	0.00	H
ATOM	2163	2HH1	ARG	229	6.912	99.192	47.705	1.00	0.00	H
ATOM	2164	NH2	ARG	229	9.232	97.207	48.923	1.00	0.00	N
ATOM	2165	1HH2	ARG	229	9.954	97.898	49.128	1.00	0.00	H
ATOM	2166	2HH2	ARG	229	9.411	96.223	49.121	1.00	0.00	H
ATOM	2167	C	ARG	229	4.243	96.079	43.985	1.00	0.00	C
ATOM	2168	O	ARG	229	3.031	96.010	44.182	1.00	0.00	O
ATOM	2169	N	THR	230	4.797	97.095	43.306	1.00	0.00	N
ATOM	2170	HN	THR	230	5.792	97.077	43.084	1.00	0.00	H
ATOM	2171	CA	THR	230	3.992	98.202	42.894	1.00	0.00	C
ATOM	2172	CB	THR	230	4.783	99.261	42.192	1.00	0.00	C
ATOM	2173	OG1	THR	230	5.809	99.738	43.050	1.00	0.00	O
ATOM	2174	HG1	THR	230	6.311	100.410	42.604	1.00	0.00	H
ATOM	2175	CG2	THR	230	3.841	100.412	41.806	1.00	0.00	C
ATOM	2176	C	THR	230	2.962	97.683	41.946	1.00	0.00	C
ATOM	2177	O	THR	230	1.831	98.167	41.904	1.00	0.00	O
ATOM	2178	N	VAL	231	3.357	96.688	41.138	1.00	0.00	N
ATOM	2179	HN	VAL	231	4.306	96.329	41.240	1.00	0.00	H
ATOM	2180	CA	VAL	231	2.511	96.101	40.135	1.00	0.00	C
ATOM	2181	CB	VAL	231	3.249	95.207	39.177	1.00	0.00	C
ATOM	2182	CG1	VAL	231	2.243	94.640	38.159	1.00	0.00	C
ATOM	2183	CG2	VAL	231	4.378	96.017	38.517	1.00	0.00	C
ATOM	2184	C	VAL	231	1.371	95.310	40.727	1.00	0.00	C
ATOM	2185	O	VAL	231	0.324	95.176	40.099	1.00	0.00	O
ATOM	2186	N	ILE	232	1.547	94.687	41.908	1.00	0.00	N
ATOM	2187	HN	ILE	232	2.440	94.777	42.392	1.00	0.00	H
ATOM	2188	CA	ILE	232	0.503	93.900	42.498	1.00	0.00	C
ATOM	2189	CB	ILE	232	0.968	93.177	43.721	1.00	0.00	C
ATOM	2190	CG1	ILE	232	2.079	92.192	43.321	1.00	0.00	C
ATOM	2191	CG2	ILE	232	-0.247	92.532	44.403	1.00	0.00	C
ATOM	2192	CD1	ILE	232	1.663	91.227	42.210	1.00	0.00	C
ATOM	2193	C	ILE	232	-0.610	94.824	42.873	1.00	0.00	C
ATOM	2194	O	ILE	232	-1.787	94.526	42.679	1.00	0.00	O
ATOM	2195	N	ALA	233	-0.238	95.976	43.448	1.00	0.00	N
ATOM	2196	HN	ALA	233	0.753	96.110	43.651	1.00	0.00	H
ATOM	2197	CA	ALA	233	-1.144	97.034	43.796	1.00	0.00	C
ATOM	2198	CB	ALA	233	-0.447	98.191	44.532	1.00	0.00	C
ATOM	2199	C	ALA	233	-1.712	97.572	42.512	1.00	0.00	C
ATOM	2200	O	ALA	233	-2.727	98.266	42.502	1.00	0.00	O
ATOM	2201	N	PHE	234	-0.954	97.407	41.413	1.00	0.00	N
ATOM	2202	HN	PHE	234	-0.045	96.955	41.511	1.00	0.00	H
ATOM	2203	CA	PHE	234	-1.371	97.842	40.102	1.00	0.00	C
ATOM	2204	CB	PHE	234	-0.207	97.858	39.094	1.00	0.00	C
ATOM	2205	CG	PHE	234	-0.614	98.704	37.934	1.00	0.00	C
ATOM	2206	CD1	PHE	234	-0.615	100.075	38.057	1.00	0.00	C
ATOM	2207	CD2	PHE	234	-0.969	98.149	36.727	1.00	0.00	C
ATOM	2208	CE1	PHE	234	-0.980	100.881	37.005	1.00	0.00	C
ATOM	2209	CE2	PHE	234	-1.335	98.951	35.668	1.00	0.00	C
ATOM	2210	CZ	PHE	234	-1.342	100.319	35.806	1.00	0.00	C
ATOM	2211	C	PHE	234	-2.459	96.944	39.565	1.00	0.00	C
ATOM	2212	O	PHE	234	-3.438	97.434	38.996	1.00	0.00	O
ATOM	2213	N	GLY	235	-2.318	95.607	39.753	1.00	0.00	N
ATOM	2214	HN	GLY	235	-1.481	95.268	40.227	1.00	0.00	H
ATOM	2215	CA	GLY	235	-3.297	94.643	39.314	1.00	0.00	C
ATOM	2216	C	GLY	235	-2.656	93.498	38.601	1.00	0.00	C
ATOM	2217	O	GLY	235	-2.780	92.342	39.009	1.00	0.00	O

ATOM	2218	N	GLY	236	-1.923	93.784	37.526	1.00	0.00	N
ATOM	2219	HN	GLY	236	-1.807	94.753	37.229	1.00	0.00	H
ATOM	2220	CA	GLY	236	-1.304	92.737	36.796	1.00	0.00	C
ATOM	2221	C	GLY	236	-1.573	93.142	35.420	1.00	0.00	C
ATOM	2222	O	GLY	236	-2.743	93.268	35.049	1.00	0.00	O
ATOM	2223	N	GLN	237	-0.487	93.363	34.653	1.00	0.00	N
ATOM	2224	HN	GLN	237	0.452	93.193	35.013	1.00	0.00	H
ATOM	2225	CA	GLN	237	-0.686	93.839	33.331	1.00	0.00	C
ATOM	2226	CB	GLN	237	0.644	93.947	32.567	1.00	0.00	C
ATOM	2227	CG	GLN	237	1.785	94.598	33.362	1.00	0.00	C
ATOM	2228	CD	GLN	237	1.364	95.973	33.857	1.00	0.00	C
ATOM	2229	OE1	GLN	237	0.381	96.109	34.584	1.00	0.00	O
ATOM	2230	NE2	GLN	237	2.133	97.023	33.463	1.00	0.00	N
ATOM	2231	1HE2	GLN	237	2.948	96.910	32.860	1.00	0.00	H
ATOM	2232	2HE2	GLN	237	1.851	97.945	33.795	1.00	0.00	H
ATOM	2233	C	GLN	237	-1.495	92.727	32.718	1.00	0.00	C
ATOM	2234	O	GLN	237	-2.669	92.902	32.395	1.00	0.00	O
ATOM	2235	N	LYS	238	-0.882	91.525	32.695	1.00	0.00	N
ATOM	2236	HN	LYS	238	0.103	91.538	32.958	1.00	0.00	H
ATOM	2237	CA	LYS	238	-1.403	90.232	32.357	1.00	0.00	C
ATOM	2238	CB	LYS	238	-2.576	89.835	33.264	1.00	0.00	C
ATOM	2239	CG	LYS	238	-2.195	89.726	34.744	1.00	0.00	C
ATOM	2240	CD	LYS	238	-3.394	89.625	35.691	1.00	0.00	C
ATOM	2241	CE	LYS	238	-4.265	90.884	35.720	1.00	0.00	C
ATOM	2242	NZ	LYS	238	-4.988	91.029	34.436	1.00	0.00	N
ATOM	2243	HZ1	LYS	238	-5.568	91.868	34.455	1.00	0.00	H
ATOM	2244	HZ2	LYS	238	-5.529	90.195	34.205	1.00	0.00	H
ATOM	2245	HZ3	LYS	238	-4.354	91.021	33.637	1.00	0.00	H
ATOM	2246	C	LYS	238	-1.840	90.152	30.929	1.00	0.00	C
ATOM	2247	O	LYS	238	-1.676	89.111	30.298	1.00	0.00	O
ATOM	2248	N	LYS	239	-2.491	91.218	30.430	1.00	0.00	N
ATOM	2249	HN	LYS	239	-2.711	91.968	31.085	1.00	0.00	H
ATOM	2250	CA	LYS	239	-2.906	91.408	29.074	1.00	0.00	C
ATOM	2251	CB	LYS	239	-4.155	92.292	28.960	1.00	0.00	C
ATOM	2252	CG	LYS	239	-4.537	92.567	27.511	1.00	0.00	C
ATOM	2253	CD	LYS	239	-4.868	91.300	26.729	1.00	0.00	C
ATOM	2254	CE	LYS	239	-5.166	91.564	25.254	1.00	0.00	C
ATOM	2255	NZ	LYS	239	-5.376	90.282	24.549	1.00	0.00	N
ATOM	2256	HZ1	LYS	239	-5.575	90.458	23.564	1.00	0.00	H
ATOM	2257	HZ2	LYS	239	-6.100	89.715	24.991	1.00	0.00	H
ATOM	2258	HZ3	LYS	239	-4.591	89.643	24.673	1.00	0.00	H
ATOM	2259	C	LYS	239	-1.837	92.037	28.239	1.00	0.00	C
ATOM	2260	O	LYS	239	-1.716	91.710	27.066	1.00	0.00	O
ATOM	2261	N	GLU	240	-1.076	93.015	28.781	1.00	0.00	N
ATOM	2262	HN	GLU	240	-1.200	93.306	29.751	1.00	0.00	H
ATOM	2263	CA	GLU	240	-0.084	93.629	27.938	1.00	0.00	C
ATOM	2264	CB	GLU	240	0.662	94.815	28.574	1.00	0.00	C
ATOM	2265	CG	GLU	240	-0.090	96.147	28.497	1.00	0.00	C
ATOM	2266	CD	GLU	240	-0.929	96.332	29.749	1.00	0.00	C
ATOM	2267	OE1	GLU	240	-1.293	95.301	30.374	1.00	0.00	O
ATOM	2268	OE2	GLU	240	-1.210	97.509	30.101	1.00	0.00	O
ATOM	2269	C	GLU	240	0.925	92.584	27.619	1.00	0.00	C
ATOM	2270	O	GLU	240	1.295	92.406	26.460	1.00	0.00	O
ATOM	2271	N	LEU	241	1.378	91.844	28.649	1.00	0.00	N
ATOM	2272	HN	LEU	241	1.019	92.006	29.590	1.00	0.00	H
ATOM	2273	CA	LEU	241	2.365	90.829	28.423	1.00	0.00	C
ATOM	2274	CB	LEU	241	2.894	90.136	29.695	1.00	0.00	C
ATOM	2275	CG	LEU	241	1.861	90.029	30.824	1.00	0.00	C
ATOM	2276	CD1	LEU	241	2.305	89.049	31.918	1.00	0.00	C
ATOM	2277	CD2	LEU	241	1.621	91.417	31.423	1.00	0.00	C
ATOM	2278	C	LEU	241	1.799	89.754	27.552	1.00	0.00	C
ATOM	2279	O	LEU	241	2.416	89.382	26.561	1.00	0.00	O
ATOM	2280	N	GLU	242	0.592	89.248	27.867	1.00	0.00	N
ATOM	2281	HN	GLU	242	0.073	89.633	28.656	1.00	0.00	H
ATOM	2282	CA	GLU	242	0.029	88.171	27.102	1.00	0.00	C
ATOM	2283	CB	GLU	242	-1.330	87.728	27.679	1.00	0.00	C
ATOM	2284	CG	GLU	242	-1.945	86.479	27.045	1.00	0.00	C
ATOM	2285	CD	GLU	242	-2.987	86.917	26.029	1.00	0.00	C
ATOM	2286	OE1	GLU	242	-2.896	88.073	25.535	1.00	0.00	O
ATOM	2287	OE2	GLU	242	-3.894	86.093	25.733	1.00	0.00	O
ATOM	2288	C	GLU	242	-0.172	88.644	25.700	1.00	0.00	C
ATOM	2289	O	GLU	242	0.155	87.933	24.753	1.00	0.00	O
ATOM	2290	N	ARG	243	-0.674	89.881	25.526	1.00	0.00	N
ATOM	2291	HN	ARG	243	-0.822	90.490	26.331	1.00	0.00	H

ATOM	2292	CA	ARG	243	-0.999	90.339	24.211	1.00	0.00	C
ATOM	2293	CB	ARG	243	-1.615	91.745	24.178	1.00	0.00	C
ATOM	2294	CG	ARG	243	-2.475	91.928	22.929	1.00	0.00	C
ATOM	2295	CD	ARG	243	-1.704	91.742	21.625	1.00	0.00	C
ATOM	2296	NE	ARG	243	-2.689	91.330	20.587	1.00	0.00	N
ATOM	2297	HE	ARG	243	-3.236	92.026	20.080	1.00	0.00	H
ATOM	2298	CZ	ARG	243	-2.841	90.000	20.331	1.00	0.00	C
ATOM	2299	NH1	ARG	243	-2.057	89.098	20.990	1.00	0.00	N
ATOM	2300	1HH1	ARG	243	-1.370	89.420	21.672	1.00	0.00	H
ATOM	2301	2HH1	ARG	243	-2.171	88.103	20.798	1.00	0.00	H
ATOM	2302	NH2	ARG	243	-3.761	89.569	19.417	1.00	0.00	N
ATOM	2303	1HH2	ARG	243	-4.347	90.243	18.924	1.00	0.00	H
ATOM	2304	2HH2	ARG	243	-3.875	88.574	19.225	1.00	0.00	H
ATOM	2305	C	ARG	243	0.237	90.353	23.373	1.00	0.00	C
ATOM	2306	O	ARG	243	0.238	89.802	22.277	1.00	0.00	O
ATOM	2307	N	TYR	244	1.336	90.963	23.853	1.00	0.00	N
ATOM	2308	HN	TYR	244	1.329	91.413	24.768	1.00	0.00	H
ATOM	2309	CA	TYR	244	2.516	90.962	23.042	1.00	0.00	C
ATOM	2310	CB	TYR	244	3.610	91.938	23.502	1.00	0.00	C
ATOM	2311	CG	TYR	244	3.088	93.274	23.104	1.00	0.00	C
ATOM	2312	CD1	TYR	244	2.953	93.577	21.769	1.00	0.00	C
ATOM	2313	CD2	TYR	244	2.747	94.219	24.040	1.00	0.00	C
ATOM	2314	CE1	TYR	244	2.473	94.800	21.366	1.00	0.00	C
ATOM	2315	CE2	TYR	244	2.267	95.446	23.643	1.00	0.00	C
ATOM	2316	CZ	TYR	244	2.127	95.737	22.308	1.00	0.00	C
ATOM	2317	OH	TYR	244	1.632	96.997	21.906	1.00	0.00	O
ATOM	2318	HH	TYR	244	1.393	97.645	22.558	1.00	0.00	H
ATOM	2319	C	TYR	244	3.071	89.576	22.933	1.00	0.00	C
ATOM	2320	O	TYR	244	3.503	89.178	21.854	1.00	0.00	O
ATOM	2321	N	ASN	245	3.056	88.795	24.035	1.00	0.00	N
ATOM	2322	HN	ASN	245	2.631	89.142	24.895	1.00	0.00	H
ATOM	2323	CA	ASN	245	3.636	87.475	24.006	1.00	0.00	C
ATOM	2324	CB	ASN	245	3.254	86.598	25.218	1.00	0.00	C
ATOM	2325	CG	ASN	245	4.044	86.982	26.445	1.00	0.00	C
ATOM	2326	OD1	ASN	245	3.935	86.354	27.498	1.00	0.00	O
ATOM	2327	ND2	ASN	245	4.870	88.044	26.300	1.00	0.00	N
ATOM	2328	1HD2	ASN	245	5.404	88.304	27.129	1.00	0.00	H
ATOM	2329	2HD2	ASN	245	4.960	88.564	25.427	1.00	0.00	H
ATOM	2330	C	ASN	245	3.045	86.686	22.889	1.00	0.00	C
ATOM	2331	O	ASN	245	3.705	86.427	21.890	1.00	0.00	O
ATOM	2332	N	LYS	246	1.746	86.366	23.014	1.00	0.00	N
ATOM	2333	HN	LYS	246	1.232	86.767	23.798	1.00	0.00	H
ATOM	2334	CA	LYS	246	1.034	85.501	22.123	1.00	0.00	C
ATOM	2335	CB	LYS	246	-0.368	85.178	22.668	1.00	0.00	C
ATOM	2336	CG	LYS	246	-0.929	83.837	22.198	1.00	0.00	C
ATOM	2337	CD	LYS	246	-1.987	83.285	23.157	1.00	0.00	C
ATOM	2338	CE	LYS	246	-2.356	81.821	22.908	1.00	0.00	C
ATOM	2339	NZ	LYS	246	-2.946	81.232	24.133	1.00	0.00	N
ATOM	2340	HZ1	LYS	246	-3.192	80.256	23.967	1.00	0.00	H
ATOM	2341	HZ2	LYS	246	-3.740	81.774	24.474	1.00	0.00	H
ATOM	2342	HZ3	LYS	246	-2.334	81.340	24.942	1.00	0.00	H
ATOM	2343	C	LYS	246	0.945	86.156	20.791	1.00	0.00	C
ATOM	2344	O	LYS	246	0.849	85.473	19.776	1.00	0.00	O
ATOM	2345	N	ASN	247	0.928	87.502	20.750	1.00	0.00	N
ATOM	2346	HN	ASN	247	1.006	88.058	21.602	1.00	0.00	H
ATOM	2347	CA	ASN	247	0.797	88.123	19.468	1.00	0.00	C
ATOM	2348	CB	ASN	247	0.676	89.650	19.545	1.00	0.00	C
ATOM	2349	CG	ASN	247	0.358	90.129	18.136	1.00	0.00	C
ATOM	2350	OD1	ASN	247	1.251	90.488	17.372	1.00	0.00	O
ATOM	2351	ND2	ASN	247	-0.951	90.103	17.771	1.00	0.00	N
ATOM	2352	1HD2	ASN	247	-1.164	90.424	16.827	1.00	0.00	H
ATOM	2353	2HD2	ASN	247	-1.692	89.805	18.405	1.00	0.00	H
ATOM	2354	C	ASN	247	1.976	87.796	18.602	1.00	0.00	C
ATOM	2355	O	ASN	247	1.833	87.091	17.605	1.00	0.00	O
ATOM	2356	N	LEU	248	3.189	88.244	18.995	1.00	0.00	N
ATOM	2357	HN	LEU	248	3.272	88.750	19.877	1.00	0.00	H
ATOM	2358	CA	LEU	248	4.361	88.024	18.199	1.00	0.00	C
ATOM	2359	CB	LEU	248	5.608	88.725	18.766	1.00	0.00	C
ATOM	2360	CG	LEU	248	5.538	90.263	18.703	1.00	0.00	C
ATOM	2361	CD1	LEU	248	5.549	90.758	17.248	1.00	0.00	C
ATOM	2362	CD2	LEU	248	4.347	90.812	19.507	1.00	0.00	C
ATOM	2363	C	LEU	248	4.639	86.559	18.176	1.00	0.00	C
ATOM	2364	O	LEU	248	4.937	85.997	17.124	1.00	0.00	O
ATOM	2365	N	GLU	249	4.517	85.889	19.338	1.00	0.00	N



ATOM	2366	HN	GLU	249	4.196	86.369	20.179	1.00	0.00	H
ATOM	2367	CA	GLU	249	4.842	84.496	19.380	1.00	0.00	C
ATOM	2368	CB	GLU	249	4.629	83.800	20.735	1.00	0.00	C
ATOM	2369	CG	GLU	249	5.769	83.975	21.734	1.00	0.00	C
ATOM	2370	CD	GLU	249	5.621	82.861	22.763	1.00	0.00	C
ATOM	2371	OE1	GLU	249	4.579	82.839	23.469	1.00	0.00	O
ATOM	2372	OE2	GLU	249	6.543	82.005	22.842	1.00	0.00	O
ATOM	2373	C	GLU	249	3.990	83.757	18.437	1.00	0.00	C
ATOM	2374	O	GLU	249	4.543	83.029	17.641	1.00	0.00	O
ATOM	2375	N	GLU	250	2.659	83.940	18.450	1.00	0.00	N
ATOM	2376	HN	GLU	250	2.263	84.640	19.077	1.00	0.00	H
ATOM	2377	CA	GLU	250	1.776	83.180	17.607	1.00	0.00	C
ATOM	2378	CB	GLU	250	0.313	83.594	17.860	1.00	0.00	C
ATOM	2379	CG	GLU	250	-0.764	82.589	17.458	1.00	0.00	C
ATOM	2380	CD	GLU	250	-2.058	83.062	18.112	1.00	0.00	C
ATOM	2381	OE1	GLU	250	-1.959	83.804	19.126	1.00	0.00	O
ATOM	2382	OE2	GLU	250	-3.157	82.694	17.617	1.00	0.00	O
ATOM	2383	C	GLU	250	2.123	83.475	16.183	1.00	0.00	C
ATOM	2384	O	GLU	250	2.212	82.562	15.363	1.00	0.00	O
ATOM	2385	N	ALA	251	2.381	84.758	15.861	1.00	0.00	N
ATOM	2386	HN	ALA	251	2.435	85.470	16.590	1.00	0.00	H
ATOM	2387	CA	ALA	251	2.579	85.115	14.487	1.00	0.00	C
ATOM	2388	CB	ALA	251	2.853	86.616	14.309	1.00	0.00	C
ATOM	2389	C	ALA	251	3.748	84.376	13.925	1.00	0.00	C
ATOM	2390	O	ALA	251	3.603	83.617	12.971	1.00	0.00	O
ATOM	2391	N	LYS	252	4.920	84.525	14.556	1.00	0.00	N
ATOM	2392	HN	LYS	252	4.947	85.131	15.376	1.00	0.00	H
ATOM	2393	CA	LYS	252	6.135	83.889	14.153	1.00	0.00	C
ATOM	2394	CB	LYS	252	7.341	84.373	14.970	1.00	0.00	C
ATOM	2395	CG	LYS	252	7.441	85.895	15.083	1.00	0.00	C
ATOM	2396	CD	LYS	252	7.439	86.632	13.745	1.00	0.00	C
ATOM	2397	CE	LYS	252	7.564	88.150	13.893	1.00	0.00	C
ATOM	2398	NZ	LYS	252	6.439	88.678	14.694	1.00	0.00	N
ATOM	2399	HZ1	LYS	252	6.522	89.690	14.793	1.00	0.00	H
ATOM	2400	HZ2	LYS	252	6.363	88.212	15.598	1.00	0.00	H
ATOM	2401	HZ3	LYS	252	5.535	88.406	14.308	1.00	0.00	H
ATOM	2402	C	LYS	252	5.958	82.446	14.473	1.00	0.00	C
ATOM	2403	O	LYS	252	6.764	81.616	14.076	1.00	0.00	O
ATOM	2404	N	ARG	253	4.994	82.104	15.336	1.00	0.00	N
ATOM	2405	HN	ARG	253	4.368	82.805	15.732	1.00	0.00	H
ATOM	2406	CA	ARG	253	4.872	80.724	15.683	1.00	0.00	C
ATOM	2407	CB	ARG	253	3.730	80.347	16.649	1.00	0.00	C
ATOM	2408	CG	ARG	253	4.046	80.403	18.148	1.00	0.00	C
ATOM	2409	CD	ARG	253	5.356	79.726	18.559	1.00	0.00	C
ATOM	2410	NE	ARG	253	6.155	80.733	19.313	1.00	0.00	N
ATOM	2411	HE	ARG	253	6.083	80.779	20.329	1.00	0.00	H
ATOM	2412	CZ	ARG	253	6.983	81.595	18.653	1.00	0.00	C
ATOM	2413	NH1	ARG	253	7.098	81.523	17.294	1.00	0.00	N
ATOM	2414	1HH1	ARG	253	7.717	82.167	16.801	1.00	0.00	H
ATOM	2415	2HH1	ARG	253	6.570	80.824	16.771	1.00	0.00	H
ATOM	2416	NH2	ARG	253	7.688	82.529	19.352	1.00	0.00	N
ATOM	2417	1HH2	ARG	253	8.307	83.173	18.859	1.00	0.00	H
ATOM	2418	2HH2	ARG	253	7.602	82.583	20.367	1.00	0.00	H
ATOM	2419	C	ARG	253	4.545	80.042	14.447	1.00	0.00	C
ATOM	2420	O	ARG	253	5.430	79.466	13.851	1.00	0.00	O
ATOM	2421	N	ILE	254	3.318	80.265	13.951	1.00	0.00	N
ATOM	2422	HN	ILE	254	2.702	80.910	14.446	1.00	0.00	H
ATOM	2423	CA	ILE	254	2.838	79.644	12.768	1.00	0.00	C
ATOM	2424	CB	ILE	254	1.415	80.001	12.447	1.00	0.00	C
ATOM	2425	CG1	ILE	254	1.269	81.512	12.201	1.00	0.00	C
ATOM	2426	CG2	ILE	254	0.529	79.463	13.580	1.00	0.00	C
ATOM	2427	CD1	ILE	254	-0.085	81.902	11.614	1.00	0.00	C
ATOM	2428	C	ILE	254	3.697	80.106	11.650	1.00	0.00	C
ATOM	2429	O	ILE	254	3.881	79.356	10.706	1.00	0.00	O
ATOM	2430	N	GLY	255	4.173	81.370	11.677	1.00	0.00	N
ATOM	2431	HN	GLY	255	3.963	81.964	12.479	1.00	0.00	H
ATOM	2432	CA	GLY	255	4.973	81.901	10.597	1.00	0.00	C
ATOM	2433	C	GLY	255	6.321	81.241	10.465	1.00	0.00	C
ATOM	2434	O	GLY	255	6.658	80.718	9.406	1.00	0.00	O
ATOM	2435	N	ILE	256	7.118	81.238	11.550	1.00	0.00	N
ATOM	2436	HN	ILE	256	6.756	81.691	12.389	1.00	0.00	H
ATOM	2437	CA	ILE	256	8.432	80.656	11.639	1.00	0.00	C
ATOM	2438	CB	ILE	256	9.143	80.857	12.960	1.00	0.00	C
ATOM	2439	CG1	ILE	256	10.680	80.882	12.807	1.00	0.00	C

ATOM	2440	CG2	ILE	256	8.710	79.710	13.893	1.00	0.00	C
ATOM	2441	CD1	ILE	256	11.336	79.564	12.395	1.00	0.00	C
ATOM	2442	C	ILE	256	8.165	79.218	11.522	1.00	0.00	C
ATOM	2443	O	ILE	256	9.084	78.444	11.336	1.00	0.00	O
ATOM	2444	N	LYS	257	6.939	78.817	11.879	1.00	0.00	N
ATOM	2445	HN	LYS	257	6.308	79.514	12.275	1.00	0.00	H
ATOM	2446	CA	LYS	257	6.454	77.482	11.743	1.00	0.00	C
ATOM	2447	CB	LYS	257	5.438	76.995	12.778	1.00	0.00	C
ATOM	2448	CG	LYS	257	6.217	76.852	14.087	1.00	0.00	C
ATOM	2449	CD	LYS	257	5.403	76.753	15.357	1.00	0.00	C
ATOM	2450	CE	LYS	257	6.234	76.439	16.605	1.00	0.00	C
ATOM	2451	NZ	LYS	257	7.125	77.574	16.932	1.00	0.00	N
ATOM	2452	HZ1	LYS	257	7.678	77.365	17.763	1.00	0.00	H
ATOM	2453	HZ2	LYS	257	6.607	78.447	17.031	1.00	0.00	H
ATOM	2454	HZ3	LYS	257	7.713	77.835	16.140	1.00	0.00	H
ATOM	2455	C	LYS	257	6.026	77.206	10.352	1.00	0.00	C
ATOM	2456	O	LYS	257	5.679	76.077	10.040	1.00	0.00	O
ATOM	2457	N	LYS	258	5.844	78.240	9.524	1.00	0.00	N
ATOM	2458	HN	LYS	258	5.891	79.191	9.890	1.00	0.00	H
ATOM	2459	CA	LYS	258	5.585	78.035	8.138	1.00	0.00	C
ATOM	2460	CB	LYS	258	5.170	79.307	7.391	1.00	0.00	C
ATOM	2461	CG	LYS	258	5.024	79.083	5.886	1.00	0.00	C
ATOM	2462	CD	LYS	258	4.278	80.206	5.168	1.00	0.00	C
ATOM	2463	CE	LYS	258	4.624	80.310	3.681	1.00	0.00	C
ATOM	2464	NZ	LYS	258	4.304	79.044	2.987	1.00	0.00	N
ATOM	2465	HZ1	LYS	258	4.535	79.113	1.996	1.00	0.00	H
ATOM	2466	HZ2	LYS	258	3.333	78.766	3.132	1.00	0.00	H
ATOM	2467	HZ3	LYS	258	4.758	78.244	3.428	1.00	0.00	H
ATOM	2468	C	LYS	258	6.902	77.619	7.644	1.00	0.00	C
ATOM	2469	O	LYS	258	7.009	76.819	6.724	1.00	0.00	O
ATOM	2470	N	ALA	259	7.927	78.268	8.224	1.00	0.00	N
ATOM	2471	HN	ALA	259	7.689	79.049	8.835	1.00	0.00	H
ATOM	2472	CA	ALA	259	9.311	77.974	8.071	1.00	0.00	C
ATOM	2473	CB	ALA	259	10.228	79.029	8.705	1.00	0.00	C
ATOM	2474	C	ALA	259	9.594	76.678	8.766	1.00	0.00	C
ATOM	2475	O	ALA	259	10.482	75.963	8.332	1.00	0.00	O
ATOM	2476	N	ILE	260	8.946	76.370	9.917	1.00	0.00	N
ATOM	2477	HN	ILE	260	8.219	76.984	10.284	1.00	0.00	H
ATOM	2478	CA	ILE	260	9.302	75.164	10.610	1.00	0.00	C
ATOM	2479	CB	ILE	260	8.926	74.981	12.052	1.00	0.00	C
ATOM	2480	CG1	ILE	260	7.434	74.774	12.298	1.00	0.00	C
ATOM	2481	CG2	ILE	260	9.533	76.160	12.814	1.00	0.00	C
ATOM	2482	CD1	ILE	260	7.180	74.112	13.652	1.00	0.00	C
ATOM	2483	C	ILE	260	8.706	74.062	9.856	1.00	0.00	C
ATOM	2484	O	ILE	260	9.359	73.075	9.556	1.00	0.00	O
ATOM	2485	N	THR	261	7.435	74.270	9.496	1.00	0.00	N
ATOM	2486	HN	THR	261	6.994	75.127	9.831	1.00	0.00	H
ATOM	2487	CA	THR	261	6.643	73.410	8.692	1.00	0.00	C
ATOM	2488	CB	THR	261	5.183	73.782	8.631	1.00	0.00	C
ATOM	2489	OG1	THR	261	4.631	73.745	9.938	1.00	0.00	O
ATOM	2490	HG1	THR	261	3.711	73.979	9.900	1.00	0.00	H
ATOM	2491	CG2	THR	261	4.420	72.779	7.751	1.00	0.00	C
ATOM	2492	C	THR	261	7.264	73.509	7.348	1.00	0.00	C
ATOM	2493	O	THR	261	6.816	72.842	6.432	1.00	0.00	O
ATOM	2494	N	ALA	262	8.117	74.534	7.149	1.00	0.00	N
ATOM	2495	HN	ALA	262	8.144	75.246	7.879	1.00	0.00	H
ATOM	2496	CA	ALA	262	8.995	74.740	6.024	1.00	0.00	C
ATOM	2497	CB	ALA	262	9.486	76.171	5.779	1.00	0.00	C
ATOM	2498	C	ALA	262	10.227	73.908	6.136	1.00	0.00	C
ATOM	2499	O	ALA	262	10.896	73.698	5.135	1.00	0.00	O
ATOM	2500	N	ASN	263	10.690	73.611	7.366	1.00	0.00	N
ATOM	2501	HN	ASN	263	10.237	74.020	8.183	1.00	0.00	H
ATOM	2502	CA	ASN	263	11.801	72.736	7.546	1.00	0.00	C
ATOM	2503	CB	ASN	263	12.321	72.683	8.989	1.00	0.00	C
ATOM	2504	CG	ASN	263	13.559	71.797	8.995	1.00	0.00	C
ATOM	2505	OD1	ASN	263	13.618	70.777	8.309	1.00	0.00	O
ATOM	2506	ND2	ASN	263	14.583	72.204	9.792	1.00	0.00	N
ATOM	2507	1HD2	ASN	263	15.412	71.610	9.796	1.00	0.00	H
ATOM	2508	2HD2	ASN	263	14.534	73.049	10.361	1.00	0.00	H
ATOM	2509	C	ASN	263	11.159	71.442	7.247	1.00	0.00	C
ATOM	2510	O	ASN	263	11.703	70.535	6.626	1.00	0.00	O
ATOM	2511	N	ILE	264	9.908	71.356	7.702	1.00	0.00	N
ATOM	2512	HN	ILE	264	9.501	72.132	8.225	1.00	0.00	H
ATOM	2513	CA	ILE	264	9.147	70.193	7.460	1.00	0.00	C

ATOM	2514	CB	ILE	264	7.778	70.280	8.070	1.00	0.00	C
ATOM	2515	CG1	ILE	264	7.871	70.351	9.606	1.00	0.00	C
ATOM	2516	CG2	ILE	264	6.955	69.094	7.548	1.00	0.00	C
ATOM	2517	CD1	ILE	264	8.535	69.124	10.232	1.00	0.00	C
ATOM	2518	C	ILE	264	8.994	70.150	5.988	1.00	0.00	C
ATOM	2519	O	ILE	264	9.329	69.174	5.325	1.00	0.00	O
ATOM	2520	N	SER	265	8.583	71.293	5.436	1.00	0.00	N
ATOM	2521	HN	SER	265	8.449	72.104	6.039	1.00	0.00	H
ATOM	2522	CA	SER	265	8.324	71.431	4.047	1.00	0.00	C
ATOM	2523	CB	SER	265	7.778	72.808	3.625	1.00	0.00	C
ATOM	2524	OG	SER	265	6.388	72.904	3.902	1.00	0.00	O
ATOM	2525	HG	SER	265	6.051	73.753	3.642	1.00	0.00	H
ATOM	2526	C	SER	265	9.617	71.236	3.360	1.00	0.00	C
ATOM	2527	O	SER	265	9.635	71.056	2.148	1.00	0.00	O
ATOM	2528	N	ILE	266	10.731	71.373	4.106	1.00	0.00	N
ATOM	2529	HN	ILE	266	10.652	71.604	5.096	1.00	0.00	H
ATOM	2530	CA	ILE	266	12.023	71.197	3.520	1.00	0.00	C
ATOM	2531	CB	ILE	266	13.214	71.854	4.178	1.00	0.00	C
ATOM	2532	CG1	ILE	266	14.210	72.235	3.066	1.00	0.00	C
ATOM	2533	CG2	ILE	266	13.923	70.862	5.114	1.00	0.00	C
ATOM	2534	CD1	ILE	266	13.681	73.293	2.097	1.00	0.00	C
ATOM	2535	C	ILE	266	12.266	69.740	3.403	1.00	0.00	C
ATOM	2536	O	ILE	266	12.864	69.287	2.432	1.00	0.00	O
ATOM	2537	N	GLY	267	11.824	68.972	4.421	1.00	0.00	N
ATOM	2538	HN	GLY	267	11.379	69.397	5.234	1.00	0.00	H
ATOM	2539	CA	GLY	267	11.988	67.553	4.343	1.00	0.00	C
ATOM	2540	C	GLY	267	11.234	67.212	3.105	1.00	0.00	C
ATOM	2541	O	GLY	267	11.654	66.400	2.282	1.00	0.00	O
ATOM	2542	N	ALA	268	10.098	67.910	2.945	1.00	0.00	N
ATOM	2543	HN	ALA	268	9.815	68.555	3.683	1.00	0.00	H
ATOM	2544	CA	ALA	268	9.272	67.791	1.793	1.00	0.00	C
ATOM	2545	CB	ALA	268	8.004	68.658	1.882	1.00	0.00	C
ATOM	2546	C	ALA	268	10.057	68.241	0.596	1.00	0.00	C
ATOM	2547	O	ALA	268	9.894	67.683	-0.482	1.00	0.00	O
ATOM	2548	N	ALA	269	10.892	69.294	0.715	1.00	0.00	N
ATOM	2549	HN	ALA	269	11.014	69.759	1.614	1.00	0.00	H
ATOM	2550	CA	ALA	269	11.605	69.749	-0.444	1.00	0.00	C
ATOM	2551	CB	ALA	269	12.443	71.006	-0.164	1.00	0.00	C
ATOM	2552	C	ALA	269	12.553	68.687	-0.890	1.00	0.00	C
ATOM	2553	O	ALA	269	12.315	68.060	-1.918	1.00	0.00	O
ATOM	2554	N	PHE	270	13.531	68.329	-0.024	1.00	0.00	N
ATOM	2555	HN	PHE	270	13.539	68.731	0.913	1.00	0.00	H
ATOM	2556	CA	PHE	270	14.556	67.396	-0.396	1.00	0.00	C
ATOM	2557	CB	PHE	270	15.525	66.997	0.732	1.00	0.00	C
ATOM	2558	CG	PHE	270	16.625	67.992	0.835	1.00	0.00	C
ATOM	2559	CD1	PHE	270	17.593	68.029	-0.142	1.00	0.00	C
ATOM	2560	CD2	PHE	270	16.722	68.852	1.904	1.00	0.00	C
ATOM	2561	CE1	PHE	270	18.630	68.926	-0.074	1.00	0.00	C
ATOM	2562	CE2	PHE	270	17.759	69.752	1.978	1.00	0.00	C
ATOM	2563	CZ	PHE	270	18.712	69.792	0.988	1.00	0.00	C
ATOM	2564	C	PHE	270	13.924	66.122	-0.836	1.00	0.00	C
ATOM	2565	O	PHE	270	14.396	65.528	-1.799	1.00	0.00	O
ATOM	2566	N	LEU	271	12.897	65.640	-0.107	1.00	0.00	N
ATOM	2567	HN	LEU	271	12.592	66.165	0.713	1.00	0.00	H
ATOM	2568	CA	LEU	271	12.211	64.414	-0.437	1.00	0.00	C
ATOM	2569	CB	LEU	271	11.279	63.898	0.680	1.00	0.00	C
ATOM	2570	CG	LEU	271	12.015	63.337	1.913	1.00	0.00	C
ATOM	2571	CD1	LEU	271	11.034	62.742	2.941	1.00	0.00	C
ATOM	2572	CD2	LEU	271	13.100	62.334	1.491	1.00	0.00	C
ATOM	2573	C	LEU	271	11.371	64.505	-1.688	1.00	0.00	C
ATOM	2574	O	LEU	271	11.418	63.613	-2.533	1.00	0.00	O
ATOM	2575	N	LEU	272	10.572	65.579	-1.847	1.00	0.00	N
ATOM	2576	HN	LEU	272	10.576	66.308	-1.134	1.00	0.00	H
ATOM	2577	CA	LEU	272	9.713	65.727	-2.994	1.00	0.00	C
ATOM	2578	CB	LEU	272	8.940	67.060	-2.978	1.00	0.00	C
ATOM	2579	CG	LEU	272	8.105	67.331	-4.242	1.00	0.00	C
ATOM	2580	CD1	LEU	272	7.017	66.263	-4.427	1.00	0.00	C
ATOM	2581	CD2	LEU	272	7.543	68.765	-4.247	1.00	0.00	C
ATOM	2582	C	LEU	272	10.608	65.743	-4.184	1.00	0.00	C
ATOM	2583	O	LEU	272	10.368	65.061	-5.178	1.00	0.00	O
ATOM	2584	N	ILE	273	11.685	66.533	-4.072	1.00	0.00	N
ATOM	2585	HN	ILE	273	11.773	67.085	-3.219	1.00	0.00	H
ATOM	2586	CA	ILE	273	12.723	66.668	-5.049	1.00	0.00	C
ATOM	2587	CB	ILE	273	13.710	67.743	-4.703	1.00	0.00	C

ATOM	2588	CG1	ILE	273	13.009	69.105	-4.796	1.00	0.00	C
ATOM	2589	CG2	ILE	273	14.936	67.607	-5.623	1.00	0.00	C
ATOM	2590	CD1	ILE	273	12.433	69.361	-6.188	1.00	0.00	C
ATOM	2591	C	ILE	273	13.436	65.365	-5.136	1.00	0.00	C
ATOM	2592	O	ILE	273	14.065	65.056	-6.145	1.00	0.00	O
ATOM	2593	N	TYR	274	13.451	64.611	-4.026	1.00	0.00	N
ATOM	2594	HN	TYR	274	12.995	64.947	-3.178	1.00	0.00	H
ATOM	2595	CA	TYR	274	14.101	63.343	-4.026	1.00	0.00	C
ATOM	2596	CB	TYR	274	14.079	62.679	-2.636	1.00	0.00	C
ATOM	2597	CG	TYR	274	14.385	61.226	-2.763	1.00	0.00	C
ATOM	2598	CD1	TYR	274	15.666	60.763	-2.962	1.00	0.00	C
ATOM	2599	CD2	TYR	274	13.356	60.318	-2.697	1.00	0.00	C
ATOM	2600	CE1	TYR	274	15.911	59.413	-3.077	1.00	0.00	C
ATOM	2601	CE2	TYR	274	13.588	58.968	-2.809	1.00	0.00	C
ATOM	2602	CZ	TYR	274	14.870	58.515	-2.999	1.00	0.00	C
ATOM	2603	OH	TYR	274	15.112	57.130	-3.116	1.00	0.00	O
ATOM	2604	HH	TYR	274	15.999	56.817	-3.247	1.00	0.00	H
ATOM	2605	C	TYR	274	13.387	62.495	-5.018	1.00	0.00	C
ATOM	2606	O	TYR	274	13.999	62.009	-5.953	1.00	0.00	O
ATOM	2607	N	ALA	275	12.054	62.389	-4.926	1.00	0.00	N
ATOM	2608	HN	ALA	275	11.562	62.904	-4.196	1.00	0.00	H
ATOM	2609	CA	ALA	275	11.304	61.569	-5.829	1.00	0.00	C
ATOM	2610	CB	ALA	275	9.795	61.563	-5.529	1.00	0.00	C
ATOM	2611	C	ALA	275	11.497	62.105	-7.205	1.00	0.00	C
ATOM	2612	O	ALA	275	11.450	61.344	-8.169	1.00	0.00	O
ATOM	2613	N	SER	276	11.668	63.438	-7.334	1.00	0.00	N
ATOM	2614	HN	SER	276	11.662	64.040	-6.511	1.00	0.00	H
ATOM	2615	CA	SER	276	11.858	63.998	-8.638	1.00	0.00	C
ATOM	2616	CB	SER	276	11.973	65.535	-8.692	1.00	0.00	C
ATOM	2617	OG	SER	276	13.302	65.955	-8.429	1.00	0.00	O
ATOM	2618	HG	SER	276	13.373	66.902	-8.462	1.00	0.00	H
ATOM	2619	C	SER	276	13.128	63.425	-9.169	1.00	0.00	C
ATOM	2620	O	SER	276	13.233	63.172	-10.368	1.00	0.00	O
ATOM	2621	N	TYR	277	14.112	63.168	-8.279	1.00	0.00	N
ATOM	2622	HN	TYR	277	13.962	63.371	-7.291	1.00	0.00	H
ATOM	2623	CA	TYR	277	15.362	62.615	-8.703	1.00	0.00	C
ATOM	2624	CB	TYR	277	16.366	62.310	-7.564	1.00	0.00	C
ATOM	2625	CG	TYR	277	16.592	60.844	-7.302	1.00	0.00	C
ATOM	2626	CD1	TYR	277	15.798	60.088	-6.473	1.00	0.00	C
ATOM	2627	CD2	TYR	277	17.659	60.205	-7.885	1.00	0.00	C
ATOM	2628	CE1	TYR	277	16.015	58.757	-6.227	1.00	0.00	C
ATOM	2629	CE2	TYR	277	17.892	58.871	-7.645	1.00	0.00	C
ATOM	2630	CZ	TYR	277	17.080	58.141	-6.820	1.00	0.00	C
ATOM	2631	OH	TYR	277	17.338	56.773	-6.589	1.00	0.00	O
ATOM	2632	HH	TYR	277	16.774	56.266	-6.016	1.00	0.00	H
ATOM	2633	C	TYR	277	14.959	61.334	-9.319	1.00	0.00	C
ATOM	2634	O	TYR	277	15.351	61.060	-10.439	1.00	0.00	O
ATOM	2635	N	ALA	278	14.056	60.586	-8.661	1.00	0.00	N
ATOM	2636	HN	ALA	278	13.683	60.923	-7.773	1.00	0.00	H
ATOM	2637	CA	ALA	278	13.605	59.330	-9.174	1.00	0.00	C
ATOM	2638	CB	ALA	278	12.517	58.691	-8.291	1.00	0.00	C
ATOM	2639	C	ALA	278	13.019	59.578	-10.533	1.00	0.00	C
ATOM	2640	O	ALA	278	13.223	58.789	-11.453	1.00	0.00	O
ATOM	2641	N	LEU	279	12.295	60.699	-10.705	1.00	0.00	N
ATOM	2642	HN	LEU	279	12.212	61.358	-9.931	1.00	0.00	H
ATOM	2643	CA	LEU	279	11.635	60.995	-11.947	1.00	0.00	C
ATOM	2644	CB	LEU	279	11.069	62.424	-11.865	1.00	0.00	C
ATOM	2645	CG	LEU	279	10.291	62.945	-13.077	1.00	0.00	C
ATOM	2646	CD1	LEU	279	8.860	62.392	-13.080	1.00	0.00	C
ATOM	2647	CD2	LEU	279	10.353	64.479	-13.152	1.00	0.00	C
ATOM	2648	C	LEU	279	12.632	60.999	-13.077	1.00	0.00	C
ATOM	2649	O	LEU	279	12.678	60.084	-13.893	1.00	0.00	O
ATOM	2650	N	ALA	280	13.553	61.974	-13.094	1.00	0.00	N
ATOM	2651	HN	ALA	280	13.589	62.651	-12.332	1.00	0.00	H
ATOM	2652	CA	ALA	280	14.489	62.071	-14.178	1.00	0.00	C
ATOM	2653	CB	ALA	280	15.441	63.271	-14.039	1.00	0.00	C
ATOM	2654	C	ALA	280	15.305	60.837	-14.143	1.00	0.00	C
ATOM	2655	O	ALA	280	15.739	60.337	-15.179	1.00	0.00	O
ATOM	2656	N	PHE	281	15.530	60.329	-12.921	1.00	0.00	N
ATOM	2657	HN	PHE	281	15.089	60.776	-12.117	1.00	0.00	H
ATOM	2658	CA	PHE	281	16.361	59.189	-12.701	1.00	0.00	C
ATOM	2659	CB	PHE	281	16.163	58.625	-11.291	1.00	0.00	C
ATOM	2660	CG	PHE	281	17.145	57.582	-10.915	1.00	0.00	C
ATOM	2661	CD1	PHE	281	18.346	57.961	-10.377	1.00	0.00	C

ATOM	2662	CD2	PHE	281	16.875	56.245	-11.075	1.00	0.00	C
ATOM	2663	CE1	PHE	281	19.271	57.028	-9.988	1.00	0.00	C
ATOM	2664	CE2	PHE	281	17.801	55.303	-10.693	1.00	0.00	C
ATOM	2665	CZ	PHE	281	18.999	55.693	-10.143	1.00	0.00	C
ATOM	2666	C	PHE	281	15.865	58.119	-13.589	1.00	0.00	C
ATOM	2667	O	PHE	281	16.450	57.848	-14.629	1.00	0.00	O
ATOM	2668	N	TRP	282	14.684	57.583	-13.270	1.00	0.00	N
ATOM	2669	HN	TRP	282	14.136	57.971	-12.502	1.00	0.00	H
ATOM	2670	CA	TRP	282	14.194	56.470	-14.006	1.00	0.00	C
ATOM	2671	CB	TRP	282	12.966	55.813	-13.364	1.00	0.00	C
ATOM	2672	CG	TRP	282	13.321	55.163	-12.056	1.00	0.00	C
ATOM	2673	CD2	TRP	282	14.368	54.192	-11.932	1.00	0.00	C
ATOM	2674	CD1	TRP	282	12.835	55.379	-10.799	1.00	0.00	C
ATOM	2675	NE1	TRP	282	13.515	54.596	-9.897	1.00	0.00	N
ATOM	2676	HE1	TRP	282	13.348	54.563	-8.891	1.00	0.00	H
ATOM	2677	CE2	TRP	282	14.462	53.862	-10.582	1.00	0.00	C
ATOM	2678	CE3	TRP	282	15.187	53.629	-12.869	1.00	0.00	C
ATOM	2679	CZ2	TRP	282	15.383	52.955	-10.145	1.00	0.00	C
ATOM	2680	CZ3	TRP	282	16.111	52.708	-12.428	1.00	0.00	C
ATOM	2681	CH2	TRP	282	16.204	52.380	-11.092	1.00	0.00	C
ATOM	2682	C	TRP	282	13.851	56.867	-15.398	1.00	0.00	C
ATOM	2683	O	TRP	282	14.103	56.102	-16.326	1.00	0.00	O
ATOM	2684	N	TYR	283	13.257	58.060	-15.599	1.00	0.00	N
ATOM	2685	HN	TYR	283	13.135	58.743	-14.851	1.00	0.00	H
ATOM	2686	CA	TYR	283	12.809	58.301	-16.937	1.00	0.00	C
ATOM	2687	CB	TYR	283	11.969	59.574	-17.133	1.00	0.00	C
ATOM	2688	CG	TYR	283	11.148	59.292	-18.353	1.00	0.00	C
ATOM	2689	CD1	TYR	283	11.589	59.569	-19.628	1.00	0.00	C
ATOM	2690	CD2	TYR	283	9.911	58.707	-18.202	1.00	0.00	C
ATOM	2691	CE1	TYR	283	10.801	59.277	-20.721	1.00	0.00	C
ATOM	2692	CE2	TYR	283	9.119	58.414	-19.286	1.00	0.00	C
ATOM	2693	CZ	TYR	283	9.563	58.700	-20.553	1.00	0.00	C
ATOM	2694	OH	TYR	283	8.757	58.400	-21.673	1.00	0.00	O
ATOM	2695	HH	TYR	283	7.902	58.002	-21.557	1.00	0.00	H
ATOM	2696	C	TYR	283	13.975	58.379	-17.877	1.00	0.00	C
ATOM	2697	O	TYR	283	14.051	57.618	-18.836	1.00	0.00	O
ATOM	2698	N	GLY	284	14.972	59.233	-17.583	1.00	0.00	N
ATOM	2699	HN	GLY	284	14.939	59.766	-16.714	1.00	0.00	H
ATOM	2700	CA	GLY	284	16.080	59.403	-18.477	1.00	0.00	C
ATOM	2701	C	GLY	284	16.747	58.078	-18.597	1.00	0.00	C
ATOM	2702	O	GLY	284	17.339	57.761	-19.628	1.00	0.00	O
ATOM	2703	N	THR	285	16.725	57.303	-17.499	1.00	0.00	N
ATOM	2704	HN	THR	285	16.259	57.638	-16.656	1.00	0.00	H
ATOM	2705	CA	THR	285	17.346	56.017	-17.498	1.00	0.00	C
ATOM	2706	CB	THR	285	17.366	55.344	-16.160	1.00	0.00	C
ATOM	2707	OG1	THR	285	18.187	56.066	-15.256	1.00	0.00	O
ATOM	2708	HG1	THR	285	18.200	55.639	-14.407	1.00	0.00	H
ATOM	2709	CG2	THR	285	17.888	53.910	-16.339	1.00	0.00	C
ATOM	2710	C	THR	285	16.664	55.083	-18.432	1.00	0.00	C
ATOM	2711	O	THR	285	17.315	54.459	-19.264	1.00	0.00	O
ATOM	2712	N	THR	286	15.329	54.985	-18.347	1.00	0.00	N
ATOM	2713	HN	THR	286	14.809	55.602	-17.724	1.00	0.00	H
ATOM	2714	CA	THR	286	14.641	54.014	-19.132	1.00	0.00	C
ATOM	2715	CB	THR	286	13.169	53.944	-18.842	1.00	0.00	C
ATOM	2716	OG1	THR	286	12.598	52.824	-19.501	1.00	0.00	O
ATOM	2717	HG1	THR	286	13.022	52.020	-19.224	1.00	0.00	H
ATOM	2718	CG2	THR	286	12.483	55.245	-19.290	1.00	0.00	C
ATOM	2719	C	THR	286	14.843	54.307	-20.584	1.00	0.00	C
ATOM	2720	O	THR	286	15.169	53.404	-21.353	1.00	0.00	O
ATOM	2721	N	LEU	287	14.708	55.584	-20.994	1.00	0.00	N
ATOM	2722	HN	LEU	287	14.530	56.327	-20.318	1.00	0.00	H
ATOM	2723	CA	LEU	287	14.818	55.886	-22.393	1.00	0.00	C
ATOM	2724	CB	LEU	287	14.708	57.389	-22.701	1.00	0.00	C
ATOM	2725	CG	LEU	287	14.827	57.706	-24.204	1.00	0.00	C
ATOM	2726	CD1	LEU	287	13.578	57.230	-24.966	1.00	0.00	C
ATOM	2727	CD2	LEU	287	15.175	59.181	-24.454	1.00	0.00	C
ATOM	2728	C	LEU	287	16.180	55.467	-22.844	1.00	0.00	C
ATOM	2729	O	LEU	287	16.336	54.760	-23.836	1.00	0.00	O
ATOM	2730	N	VAL	288	17.202	55.863	-22.072	1.00	0.00	N
ATOM	2731	HN	VAL	288	16.990	56.380	-21.219	1.00	0.00	H
ATOM	2732	CA	VAL	288	18.576	55.600	-22.380	1.00	0.00	C
ATOM	2733	CB	VAL	288	19.535	56.464	-21.599	1.00	0.00	C
ATOM	2734	CG1	VAL	288	20.976	56.227	-22.096	1.00	0.00	C
ATOM	2735	CG2	VAL	288	19.085	57.927	-21.741	1.00	0.00	C

ATOM	2736	C	VAL	288	18.846	54.135	-22.165	1.00	0.00	C
ATOM	2737	O	VAL	288	19.985	53.697	-22.277	1.00	0.00	O
ATOM	2738	N	LEU	289	17.891	53.390	-21.572	1.00	0.00	N
ATOM	2739	HN	LEU	289	17.052	53.841	-21.207	1.00	0.00	H
ATOM	2740	CA	LEU	289	18.045	51.965	-21.449	1.00	0.00	C
ATOM	2741	CB	LEU	289	17.340	51.395	-20.204	1.00	0.00	C
ATOM	2742	CG	LEU	289	17.928	50.057	-19.700	1.00	0.00	C
ATOM	2743	CD1	LEU	289	17.854	48.915	-20.722	1.00	0.00	C
ATOM	2744	CD2	LEU	289	19.358	50.277	-19.187	1.00	0.00	C
ATOM	2745	C	LEU	289	17.501	51.275	-22.669	1.00	0.00	C
ATOM	2746	O	LEU	289	18.009	50.243	-23.095	1.00	0.00	O
ATOM	2747	N	SER	290	16.384	51.790	-23.226	1.00	0.00	N
ATOM	2748	HN	SER	290	15.985	52.646	-22.842	1.00	0.00	H
ATOM	2749	CA	SER	290	15.746	51.160	-24.346	1.00	0.00	C
ATOM	2750	CB	SER	290	14.363	51.764	-24.654	1.00	0.00	C
ATOM	2751	OG	SER	290	13.490	51.571	-23.551	1.00	0.00	O
ATOM	2752	HG	SER	290	12.637	51.944	-23.741	1.00	0.00	H
ATOM	2753	C	SER	290	16.582	51.302	-25.581	1.00	0.00	C
ATOM	2754	O	SER	290	16.805	50.325	-26.296	1.00	0.00	O
ATOM	2755	N	GLY	291	16.997	52.543	-25.918	1.00	0.00	N
ATOM	2756	HN	GLY	291	16.781	53.346	-25.327	1.00	0.00	H
ATOM	2757	CA	GLY	291	17.751	52.702	-27.131	1.00	0.00	C
ATOM	2758	C	GLY	291	19.166	52.198	-27.058	1.00	0.00	C
ATOM	2759	O	GLY	291	19.544	51.245	-27.731	1.00	0.00	O
ATOM	2760	N	GLU	292	19.974	52.780	-26.158	1.00	0.00	N
ATOM	2761	HN	GLU	292	19.576	53.443	-25.493	1.00	0.00	H
ATOM	2762	CA	GLU	292	21.381	52.498	-26.103	1.00	0.00	C
ATOM	2763	CB	GLU	292	22.214	53.784	-26.273	1.00	0.00	C
ATOM	2764	CG	GLU	292	23.731	53.605	-26.203	1.00	0.00	C
ATOM	2765	CD	GLU	292	24.361	54.992	-26.117	1.00	0.00	C
ATOM	2766	OE1	GLU	292	23.752	55.876	-25.455	1.00	0.00	O
ATOM	2767	OE2	GLU	292	25.458	55.186	-26.708	1.00	0.00	O
ATOM	2768	C	GLU	292	21.650	51.997	-24.731	1.00	0.00	C
ATOM	2769	O	GLU	292	20.721	51.964	-23.931	1.00	0.00	O
ATOM	2770	N	TYR	293	22.891	51.508	-24.478	1.00	0.00	N
ATOM	2771	HN	TYR	293	23.521	51.383	-25.270	1.00	0.00	H
ATOM	2772	CA	TYR	293	23.382	51.152	-23.169	1.00	0.00	C
ATOM	2773	CB	TYR	293	23.765	52.427	-22.387	1.00	0.00	C
ATOM	2774	CG	TYR	293	24.487	52.132	-21.116	1.00	0.00	C
ATOM	2775	CD1	TYR	293	25.789	51.685	-21.145	1.00	0.00	C
ATOM	2776	CD2	TYR	293	23.882	52.342	-19.898	1.00	0.00	C
ATOM	2777	CE1	TYR	293	26.470	51.430	-19.978	1.00	0.00	C
ATOM	2778	CE2	TYR	293	24.559	52.089	-18.727	1.00	0.00	C
ATOM	2779	CZ	TYR	293	25.854	51.631	-18.766	1.00	0.00	C
ATOM	2780	OH	TYR	293	26.549	51.374	-17.565	1.00	0.00	O
ATOM	2781	HH	TYR	293	26.123	51.513	-16.727	1.00	0.00	H
ATOM	2782	C	TYR	293	22.320	50.391	-22.425	1.00	0.00	C
ATOM	2783	O	TYR	293	22.022	50.706	-21.274	1.00	0.00	O
ATOM	2784	N	SER	294	21.717	49.361	-23.057	1.00	0.00	N
ATOM	2785	HN	SER	294	22.063	49.034	-23.959	1.00	0.00	H
ATOM	2786	CA	SER	294	20.579	48.732	-22.439	1.00	0.00	C
ATOM	2787	CB	SER	294	19.646	48.079	-23.471	1.00	0.00	C
ATOM	2788	OG	SER	294	20.366	47.122	-24.231	1.00	0.00	O
ATOM	2789	HG	SER	294	19.789	46.718	-24.869	1.00	0.00	H
ATOM	2790	C	SER	294	20.999	47.666	-21.470	1.00	0.00	C
ATOM	2791	O	SER	294	20.849	46.472	-21.728	1.00	0.00	O
ATOM	2792	N	ILE	295	21.626	48.100	-20.362	1.00	0.00	N
ATOM	2793	HN	ILE	295	21.826	49.099	-20.320	1.00	0.00	H
ATOM	2794	CA	ILE	295	22.048	47.320	-19.229	1.00	0.00	C
ATOM	2795	CB	ILE	295	23.379	47.792	-18.722	1.00	0.00	C
ATOM	2796	CG1	ILE	295	23.449	49.329	-18.764	1.00	0.00	C
ATOM	2797	CG2	ILE	295	24.470	47.105	-19.560	1.00	0.00	C
ATOM	2798	CD1	ILE	295	22.324	50.052	-18.042	1.00	0.00	C
ATOM	2799	C	ILE	295	21.076	47.053	-18.097	1.00	0.00	C
ATOM	2800	O	ILE	295	21.109	45.976	-17.504	1.00	0.00	O
ATOM	2801	N	GLY	296	20.248	48.044	-17.678	1.00	0.00	N
ATOM	2802	HN	GLY	296	20.186	48.909	-18.215	1.00	0.00	H
ATOM	2803	CA	GLY	296	19.450	47.888	-16.476	1.00	0.00	C
ATOM	2804	C	GLY	296	20.422	48.149	-15.355	1.00	0.00	C
ATOM	2805	O	GLY	296	20.153	47.905	-14.179	1.00	0.00	O
ATOM	2806	N	GLN	297	21.650	48.498	-15.788	1.00	0.00	N
ATOM	2807	HN	GLN	297	21.736	48.516	-16.804	1.00	0.00	H
ATOM	2808	CA	GLN	297	22.858	48.849	-15.103	1.00	0.00	C
ATOM	2809	CB	GLN	297	24.134	48.318	-15.758	1.00	0.00	C

ATOM	2810	CG	GLN	297	25.223	48.293	-14.696	1.00	0.00	C
ATOM	2811	CD	GLN	297	24.538	47.648	-13.495	1.00	0.00	C
ATOM	2812	OE1	GLN	297	24.155	46.480	-13.539	1.00	0.00	O
ATOM	2813	NE2	GLN	297	24.337	48.439	-12.407	1.00	0.00	N
ATOM	2814	1HE2	GLN	297	23.879	48.008	-11.604	1.00	0.00	H
ATOM	2815	2HE2	GLN	297	24.655	49.408	-12.371	1.00	0.00	H
ATOM	2816	C	GLN	297	23.023	50.308	-14.857	1.00	0.00	C
ATOM	2817	O	GLN	297	23.973	50.727	-14.202	1.00	0.00	O
ATOM	2818	N	VAL	298	22.172	51.160	-15.454	1.00	0.00	N
ATOM	2819	HN	VAL	298	21.413	50.788	-16.026	1.00	0.00	H
ATOM	2820	CA	VAL	298	22.307	52.583	-15.305	1.00	0.00	C
ATOM	2821	CB	VAL	298	21.223	53.307	-16.049	1.00	0.00	C
ATOM	2822	CG1	VAL	298	21.532	54.812	-16.068	1.00	0.00	C
ATOM	2823	CG2	VAL	298	21.074	52.658	-17.435	1.00	0.00	C
ATOM	2824	C	VAL	298	22.177	52.830	-13.831	1.00	0.00	C
ATOM	2825	O	VAL	298	22.675	53.816	-13.285	1.00	0.00	O
ATOM	2826	N	LEU	299	21.524	51.877	-13.143	1.00	0.00	N
ATOM	2827	HN	LEU	299	21.187	51.066	-13.662	1.00	0.00	H
ATOM	2828	CA	LEU	299	21.269	51.917	-11.744	1.00	0.00	C
ATOM	2829	CB	LEU	299	20.825	50.533	-11.249	1.00	0.00	C
ATOM	2830	CG	LEU	299	20.566	50.431	-9.738	1.00	0.00	C
ATOM	2831	CD1	LEU	299	19.364	51.289	-9.314	1.00	0.00	C
ATOM	2832	CD2	LEU	299	20.449	48.960	-9.307	1.00	0.00	C
ATOM	2833	C	LEU	299	22.521	52.269	-11.008	1.00	0.00	C
ATOM	2834	O	LEU	299	22.559	53.340	-10.407	1.00	0.00	O
ATOM	2835	N	THR	300	23.607	51.474	-11.129	1.00	0.00	N
ATOM	2836	HN	THR	300	23.600	50.688	-11.779	1.00	0.00	H
ATOM	2837	CA	THR	300	24.773	51.747	-10.332	1.00	0.00	C
ATOM	2838	CB	THR	300	25.907	50.820	-10.579	1.00	0.00	C
ATOM	2839	OG1	THR	300	25.494	49.520	-10.214	1.00	0.00	O
ATOM	2840	HG1	THR	300	26.219	48.927	-10.372	1.00	0.00	H
ATOM	2841	CG2	THR	300	27.117	51.253	-9.734	1.00	0.00	C
ATOM	2842	C	THR	300	25.264	53.131	-10.572	1.00	0.00	C
ATOM	2843	O	THR	300	25.614	53.830	-9.624	1.00	0.00	O
ATOM	2844	N	VAL	301	25.297	53.576	-11.835	1.00	0.00	N
ATOM	2845	HN	VAL	301	24.954	52.997	-12.602	1.00	0.00	H
ATOM	2846	CA	VAL	301	25.825	54.885	-12.084	1.00	0.00	C
ATOM	2847	CB	VAL	301	25.804	55.203	-13.545	1.00	0.00	C
ATOM	2848	CG1	VAL	301	26.540	56.533	-13.777	1.00	0.00	C
ATOM	2849	CG2	VAL	301	26.342	53.989	-14.315	1.00	0.00	C
ATOM	2850	C	VAL	301	25.001	55.943	-11.396	1.00	0.00	C
ATOM	2851	O	VAL	301	25.430	56.484	-10.379	1.00	0.00	O
ATOM	2852	N	PHE	302	23.741	56.168	-11.844	1.00	0.00	N
ATOM	2853	HN	PHE	302	23.342	55.557	-12.556	1.00	0.00	H
ATOM	2854	CA	PHE	302	22.957	57.266	-11.322	1.00	0.00	C
ATOM	2855	CB	PHE	302	21.515	57.328	-11.849	1.00	0.00	C
ATOM	2856	CG	PHE	302	21.415	57.917	-13.211	1.00	0.00	C
ATOM	2857	CD1	PHE	302	21.749	57.181	-14.321	1.00	0.00	C
ATOM	2858	CD2	PHE	302	20.941	59.201	-13.375	1.00	0.00	C
ATOM	2859	CE1	PHE	302	21.639	57.731	-15.577	1.00	0.00	C
ATOM	2860	CE2	PHE	302	20.829	59.755	-14.629	1.00	0.00	C
ATOM	2861	CZ	PHE	302	21.182	59.018	-15.735	1.00	0.00	C
ATOM	2862	C	PHE	302	22.832	57.139	-9.833	1.00	0.00	C
ATOM	2863	O	PHE	302	23.092	58.091	-9.099	1.00	0.00	O
ATOM	2864	N	PHE	303	22.495	55.936	-9.344	1.00	0.00	N
ATOM	2865	HN	PHE	303	22.382	55.155	-9.990	1.00	0.00	H
ATOM	2866	CA	PHE	303	22.289	55.713	-7.943	1.00	0.00	C
ATOM	2867	CB	PHE	303	21.937	54.235	-7.679	1.00	0.00	C
ATOM	2868	CG	PHE	303	21.682	53.962	-6.235	1.00	0.00	C
ATOM	2869	CD1	PHE	303	20.566	54.475	-5.611	1.00	0.00	C
ATOM	2870	CD2	PHE	303	22.564	53.198	-5.503	1.00	0.00	C
ATOM	2871	CE1	PHE	303	20.331	54.219	-4.280	1.00	0.00	C
ATOM	2872	CE2	PHE	303	22.332	52.936	-4.173	1.00	0.00	C
ATOM	2873	CZ	PHE	303	21.213	53.447	-3.560	1.00	0.00	C
ATOM	2874	C	PHE	303	23.536	56.124	-7.196	1.00	0.00	C
ATOM	2875	O	PHE	303	23.446	56.756	-6.144	1.00	0.00	O
ATOM	2876	N	SER	304	24.733	55.786	-7.722	1.00	0.00	N
ATOM	2877	HN	SER	304	24.747	55.273	-8.603	1.00	0.00	H
ATOM	2878	CA	SER	304	25.994	56.115	-7.099	1.00	0.00	C
ATOM	2879	CB	SER	304	27.224	55.592	-7.861	1.00	0.00	C
ATOM	2880	OG	SER	304	27.329	54.186	-7.741	1.00	0.00	O
ATOM	2881	HG	SER	304	28.088	53.863	-8.212	1.00	0.00	H
ATOM	2882	C	SER	304	26.202	57.592	-7.030	1.00	0.00	C
ATOM	2883	O	SER	304	26.664	58.116	-6.018	1.00	0.00	O

ATOM	2884	N	VAL	305	25.868	58.310	-8.112	1.00	0.00	N
ATOM	2885	HN	VAL	305	25.474	57.845	-8.930	1.00	0.00	H
ATOM	2886	CA	VAL	305	26.064	59.727	-8.120	1.00	0.00	C
ATOM	2887	CB	VAL	305	25.528	60.343	-9.370	1.00	0.00	C
ATOM	2888	CG1	VAL	305	25.461	61.855	-9.159	1.00	0.00	C
ATOM	2889	CG2	VAL	305	26.432	59.925	-10.540	1.00	0.00	C
ATOM	2890	C	VAL	305	25.290	60.282	-6.968	1.00	0.00	C
ATOM	2891	O	VAL	305	25.735	61.197	-6.274	1.00	0.00	O
ATOM	2892	N	LEU	306	24.115	59.688	-6.709	1.00	0.00	N
ATOM	2893	HN	LEU	306	23.830	58.881	-7.264	1.00	0.00	H
ATOM	2894	CA	LEU	306	23.254	60.163	-5.670	1.00	0.00	C
ATOM	2895	CB	LEU	306	22.006	59.279	-5.483	1.00	0.00	C
ATOM	2896	CG	LEU	306	20.923	59.933	-4.603	1.00	0.00	C
ATOM	2897	CD1	LEU	306	20.155	61.009	-5.390	1.00	0.00	C
ATOM	2898	CD2	LEU	306	20.010	58.896	-3.933	1.00	0.00	C
ATOM	2899	C	LEU	306	24.026	60.098	-4.385	1.00	0.00	C
ATOM	2900	O	LEU	306	24.000	61.026	-3.576	1.00	0.00	O
ATOM	2901	N	ILE	307	24.793	59.010	-4.194	1.00	0.00	N
ATOM	2902	HN	ILE	307	24.836	58.301	-4.926	1.00	0.00	H
ATOM	2903	CA	ILE	307	25.553	58.815	-2.993	1.00	0.00	C
ATOM	2904	CB	ILE	307	26.430	57.598	-3.061	1.00	0.00	C
ATOM	2905	CG1	ILE	307	25.580	56.327	-3.225	1.00	0.00	C
ATOM	2906	CG2	ILE	307	27.322	57.587	-1.808	1.00	0.00	C
ATOM	2907	CD1	ILE	307	24.627	56.081	-2.057	1.00	0.00	C
ATOM	2908	C	ILE	307	26.444	60.007	-2.850	1.00	0.00	C
ATOM	2909	O	ILE	307	26.703	60.475	-1.741	1.00	0.00	O
ATOM	2910	N	GLY	308	26.942	60.526	-3.985	1.00	0.00	N
ATOM	2911	HN	GLY	308	26.674	60.120	-4.882	1.00	0.00	H
ATOM	2912	CA	GLY	308	27.844	61.640	-3.958	1.00	0.00	C
ATOM	2913	C	GLY	308	27.204	62.836	-3.316	1.00	0.00	C
ATOM	2914	O	GLY	308	27.825	63.515	-2.497	1.00	0.00	O
ATOM	2915	N	ALA	309	25.936	63.134	-3.650	1.00	0.00	N
ATOM	2916	HN	ALA	309	25.399	62.523	-4.265	1.00	0.00	H
ATOM	2917	CA	ALA	309	25.359	64.334	-3.118	1.00	0.00	C
ATOM	2918	CB	ALA	309	23.908	64.554	-3.579	1.00	0.00	C
ATOM	2919	C	ALA	309	25.329	64.255	-1.624	1.00	0.00	C
ATOM	2920	O	ALA	309	25.792	65.160	-0.928	1.00	0.00	O
ATOM	2921	N	PHE	310	24.857	63.123	-1.084	1.00	0.00	N
ATOM	2922	HN	PHE	310	24.630	62.322	-1.673	1.00	0.00	H
ATOM	2923	CA	PHE	310	24.677	63.058	0.333	1.00	0.00	C
ATOM	2924	CB	PHE	310	23.959	61.779	0.780	1.00	0.00	C
ATOM	2925	CG	PHE	310	22.600	61.923	0.182	1.00	0.00	C
ATOM	2926	CD1	PHE	310	21.614	62.619	0.844	1.00	0.00	C
ATOM	2927	CD2	PHE	310	22.322	61.397	-1.058	1.00	0.00	C
ATOM	2928	CE1	PHE	310	20.363	62.764	0.291	1.00	0.00	C
ATOM	2929	CE2	PHE	310	21.073	61.540	-1.614	1.00	0.00	C
ATOM	2930	CZ	PHE	310	20.089	62.221	-0.941	1.00	0.00	C
ATOM	2931	C	PHE	310	25.990	63.215	1.027	1.00	0.00	C
ATOM	2932	O	PHE	310	26.084	63.894	2.050	1.00	0.00	O
ATOM	2933	N	SER	311	27.052	62.610	0.477	1.00	0.00	N
ATOM	2934	HN	SER	311	26.947	62.089	-0.394	1.00	0.00	H
ATOM	2935	CA	SER	311	28.334	62.694	1.111	1.00	0.00	C
ATOM	2936	CB	SER	311	29.371	61.812	0.391	1.00	0.00	C
ATOM	2937	OG	SER	311	29.258	61.971	-1.015	1.00	0.00	O
ATOM	2938	HG	SER	311	29.898	61.427	-1.459	1.00	0.00	H
ATOM	2939	C	SER	311	28.788	64.126	1.189	1.00	0.00	C
ATOM	2940	O	SER	311	29.474	64.517	2.134	1.00	0.00	O
ATOM	2941	N	VAL	312	28.392	64.967	0.217	1.00	0.00	N
ATOM	2942	HN	VAL	312	27.806	64.626	-0.545	1.00	0.00	H
ATOM	2943	CA	VAL	312	28.795	66.348	0.252	1.00	0.00	C
ATOM	2944	CB	VAL	312	28.268	67.136	-0.907	1.00	0.00	C
ATOM	2945	CG1	VAL	312	28.621	68.620	-0.700	1.00	0.00	C
ATOM	2946	CG2	VAL	312	28.836	66.528	-2.199	1.00	0.00	C
ATOM	2947	C	VAL	312	28.228	66.961	1.485	1.00	0.00	C
ATOM	2948	O	VAL	312	28.839	67.832	2.107	1.00	0.00	O
ATOM	2949	N	GLY	313	27.011	66.540	1.856	1.00	0.00	N
ATOM	2950	HN	GLY	313	26.522	65.811	1.336	1.00	0.00	H
ATOM	2951	CA	GLY	313	26.425	67.149	3.005	1.00	0.00	C
ATOM	2952	C	GLY	313	27.253	66.862	4.218	1.00	0.00	C
ATOM	2953	O	GLY	313	27.621	67.773	4.952	1.00	0.00	O
ATOM	2954	N	GLN	314	27.636	65.594	4.431	1.00	0.00	N
ATOM	2955	HN	GLN	314	27.447	64.880	3.727	1.00	0.00	H
ATOM	2956	CA	GLN	314	28.313	65.239	5.650	1.00	0.00	C
ATOM	2957	CB	GLN	314	28.664	63.744	5.714	1.00	0.00	C



ATOM	2958	CG	GLN	314	27.450	62.828	5.527	1.00	0.00	C
ATOM	2959	CD	GLN	314	26.343	63.301	6.458	1.00	0.00	C
ATOM	2960	OE1	GLN	314	25.526	64.139	6.082	1.00	0.00	O
ATOM	2961	NE2	GLN	314	26.306	62.760	7.706	1.00	0.00	N
ATOM	2962	1HE2	GLN	314	25.564	63.077	8.330	1.00	0.00	H
ATOM	2963	2HE2	GLN	314	26.984	62.065	8.018	1.00	0.00	H
ATOM	2964	C	GLN	314	29.588	66.010	5.731	1.00	0.00	C
ATOM	2965	O	GLN	314	29.994	66.465	6.802	1.00	0.00	O
ATOM	2966	N	ALA	315	30.246	66.199	4.580	1.00	0.00	N
ATOM	2967	HN	ALA	315	29.843	65.869	3.703	1.00	0.00	H
ATOM	2968	CA	ALA	315	31.512	66.862	4.577	1.00	0.00	C
ATOM	2969	CB	ALA	315	32.090	67.027	3.164	1.00	0.00	C
ATOM	2970	C	ALA	315	31.350	68.241	5.143	1.00	0.00	C
ATOM	2971	O	ALA	315	32.203	68.708	5.897	1.00	0.00	O
ATOM	2972	N	SER	316	30.240	68.927	4.807	1.00	0.00	N
ATOM	2973	HN	SER	316	29.500	68.474	4.271	1.00	0.00	H
ATOM	2974	CA	SER	316	30.103	70.301	5.208	1.00	0.00	C
ATOM	2975	CB	SER	316	28.822	70.979	4.684	1.00	0.00	C
ATOM	2976	OG	SER	316	28.866	71.088	3.269	1.00	0.00	O
ATOM	2977	HG	SER	316	28.076	71.506	2.946	1.00	0.00	H
ATOM	2978	C	SER	316	30.156	70.456	6.700	1.00	0.00	C
ATOM	2979	O	SER	316	30.947	71.269	7.177	1.00	0.00	O
ATOM	2980	N	PRO	317	29.391	69.745	7.488	1.00	0.00	N
ATOM	2981	CA	PRO	317	29.529	69.983	8.895	1.00	0.00	C
ATOM	2982	CD	PRO	317	28.004	69.460	7.160	1.00	0.00	C
ATOM	2983	CB	PRO	317	28.337	69.303	9.560	1.00	0.00	C
ATOM	2984	CG	PRO	317	27.238	69.434	8.494	1.00	0.00	C
ATOM	2985	C	PRO	317	30.862	69.629	9.468	1.00	0.00	C
ATOM	2986	O	PRO	317	31.265	70.255	10.446	1.00	0.00	O
ATOM	2987	N	SER	318	31.570	68.640	8.902	1.00	0.00	N
ATOM	2988	HN	SER	318	31.220	68.145	8.082	1.00	0.00	H
ATOM	2989	CA	SER	318	32.833	68.301	9.486	1.00	0.00	C
ATOM	2990	CB	SER	318	33.487	67.077	8.832	1.00	0.00	C
ATOM	2991	OG	SER	318	34.727	66.802	9.466	1.00	0.00	O
ATOM	2992	HG	SER	318	35.132	66.044	9.061	1.00	0.00	H
ATOM	2993	C	SER	318	33.746	69.473	9.314	1.00	0.00	C
ATOM	2994	O	SER	318	34.509	69.822	10.214	1.00	0.00	O
ATOM	2995	N	ILE	319	33.661	70.140	8.148	1.00	0.00	N
ATOM	2996	HN	ILE	319	32.973	69.848	7.454	1.00	0.00	H
ATOM	2997	CA	ILE	319	34.520	71.255	7.863	1.00	0.00	C
ATOM	2998	CB	ILE	319	34.278	71.859	6.511	1.00	0.00	C
ATOM	2999	CG1	ILE	319	34.587	70.845	5.403	1.00	0.00	C
ATOM	3000	CG2	ILE	319	35.102	73.153	6.403	1.00	0.00	C
ATOM	3001	CD1	ILE	319	34.074	71.288	4.036	1.00	0.00	C
ATOM	3002	C	ILE	319	34.247	72.334	8.854	1.00	0.00	C
ATOM	3003	O	ILE	319	35.169	72.967	9.370	1.00	0.00	O
ATOM	3004	N	GLU	320	32.957	72.556	9.155	1.00	0.00	N
ATOM	3005	HN	GLU	320	32.235	71.965	8.742	1.00	0.00	H
ATOM	3006	CA	GLU	320	32.583	73.609	10.046	1.00	0.00	C
ATOM	3007	CB	GLU	320	31.077	73.588	10.343	1.00	0.00	C
ATOM	3008	CG	GLU	320	30.598	74.686	11.289	1.00	0.00	C
ATOM	3009	CD	GLU	320	29.137	74.388	11.592	1.00	0.00	C
ATOM	3010	OE1	GLU	320	28.865	73.256	12.073	1.00	0.00	O
ATOM	3011	OE2	GLU	320	28.275	75.275	11.349	1.00	0.00	O
ATOM	3012	C	GLU	320	33.301	73.367	11.332	1.00	0.00	C
ATOM	3013	O	GLU	320	33.854	74.284	11.935	1.00	0.00	O
ATOM	3014	N	ALA	321	33.367	72.097	11.760	1.00	0.00	N
ATOM	3015	HN	ALA	321	32.977	71.345	11.193	1.00	0.00	H
ATOM	3016	CA	ALA	321	33.987	71.802	13.015	1.00	0.00	C
ATOM	3017	CB	ALA	321	33.976	70.300	13.337	1.00	0.00	C
ATOM	3018	C	ALA	321	35.414	72.252	12.993	1.00	0.00	C
ATOM	3019	O	ALA	321	35.878	72.874	13.949	1.00	0.00	O
ATOM	3020	N	PHE	322	36.146	71.990	11.892	1.00	0.00	N
ATOM	3021	HN	PHE	322	35.724	71.558	11.070	1.00	0.00	H
ATOM	3022	CA	PHE	322	37.536	72.338	11.912	1.00	0.00	C
ATOM	3023	CB	PHE	322	38.317	71.962	10.644	1.00	0.00	C
ATOM	3024	CG	PHE	322	39.741	72.265	10.971	1.00	0.00	C
ATOM	3025	CD1	PHE	322	40.268	73.519	10.752	1.00	0.00	C
ATOM	3026	CD2	PHE	322	40.546	71.292	11.517	1.00	0.00	C
ATOM	3027	CE1	PHE	322	41.577	73.798	11.064	1.00	0.00	C
ATOM	3028	CE2	PHE	322	41.857	71.564	11.831	1.00	0.00	C
ATOM	3029	CZ	PHE	322	42.373	72.817	11.605	1.00	0.00	C
ATOM	3030	C	PHE	322	37.676	73.815	12.106	1.00	0.00	C
ATOM	3031	O	PHE	322	38.402	74.261	12.990	1.00	0.00	O

ATOM	3032	N	ALA	323	36.939	74.620	11.327	1.00	0.00	N
ATOM	3033	HN	ALA	323	36.251	74.217	10.691	1.00	0.00	H
ATOM	3034	CA	ALA	323	37.110	76.044	11.381	1.00	0.00	C
ATOM	3035	CB	ALA	323	36.164	76.787	10.421	1.00	0.00	C
ATOM	3036	C	ALA	323	36.823	76.531	12.769	1.00	0.00	C
ATOM	3037	O	ALA	323	37.521	77.412	13.270	1.00	0.00	O
ATOM	3038	N	ASN	324	35.795	75.970	13.435	1.00	0.00	N
ATOM	3039	HN	ASN	324	35.269	75.209	13.006	1.00	0.00	H
ATOM	3040	CA	ASN	324	35.433	76.436	14.747	1.00	0.00	C
ATOM	3041	CB	ASN	324	34.329	75.596	15.420	1.00	0.00	C
ATOM	3042	CG	ASN	324	33.002	75.740	14.693	1.00	0.00	C
ATOM	3043	OD1	ASN	324	32.466	74.767	14.165	1.00	0.00	O
ATOM	3044	ND2	ASN	324	32.442	76.978	14.682	1.00	0.00	N
ATOM	3045	1HD2	ASN	324	31.551	77.075	14.194	1.00	0.00	H
ATOM	3046	2HD2	ASN	324	32.887	77.785	15.120	1.00	0.00	H
ATOM	3047	C	ASN	324	36.600	76.249	15.657	1.00	0.00	C
ATOM	3048	O	ASN	324	37.019	77.176	16.348	1.00	0.00	O
ATOM	3049	N	ALA	325	37.174	75.034	15.646	1.00	0.00	N
ATOM	3050	HN	ALA	325	36.854	74.336	14.974	1.00	0.00	H
ATOM	3051	CA	ALA	325	38.224	74.700	16.557	1.00	0.00	C
ATOM	3052	CB	ALA	325	38.721	73.255	16.382	1.00	0.00	C
ATOM	3053	C	ALA	325	39.371	75.610	16.310	1.00	0.00	C
ATOM	3054	O	ALA	325	40.026	76.056	17.250	1.00	0.00	O
ATOM	3055	N	ARG	326	39.653	75.901	15.030	1.00	0.00	N
ATOM	3056	HN	ARG	326	39.078	75.528	14.275	1.00	0.00	H
ATOM	3057	CA	ARG	326	40.772	76.741	14.744	1.00	0.00	C
ATOM	3058	CB	ARG	326	40.992	76.939	13.237	1.00	0.00	C
ATOM	3059	CG	ARG	326	42.328	77.601	12.900	1.00	0.00	C
ATOM	3060	CD	ARG	326	42.590	77.701	11.397	1.00	0.00	C
ATOM	3061	NE	ARG	326	42.512	79.142	11.032	1.00	0.00	N
ATOM	3062	HE	ARG	326	43.360	79.708	11.036	1.00	0.00	H
ATOM	3063	CZ	ARG	326	41.323	79.716	10.693	1.00	0.00	C
ATOM	3064	NH1	ARG	326	40.183	78.967	10.640	1.00	0.00	N
ATOM	3065	1HH1	ARG	326	39.293	79.397	10.386	1.00	0.00	H
ATOM	3066	2HH1	ARG	326	40.217	77.971	10.857	1.00	0.00	H
ATOM	3067	NH2	ARG	326	41.277	81.049	10.402	1.00	0.00	N
ATOM	3068	1HH2	ARG	326	40.387	81.479	10.148	1.00	0.00	H
ATOM	3069	2HH2	ARG	326	42.129	81.609	10.442	1.00	0.00	H
ATOM	3070	C	ARG	326	40.548	78.088	15.346	1.00	0.00	C
ATOM	3071	O	ARG	326	41.357	78.547	16.149	1.00	0.00	O
ATOM	3072	N	GLY	327	39.387	78.711	15.056	1.00	0.00	N
ATOM	3073	HN	GLY	327	38.669	78.219	14.524	1.00	0.00	H
ATOM	3074	CA	GLY	327	39.151	80.058	15.488	1.00	0.00	C
ATOM	3075	C	GLY	327	39.270	80.097	16.971	1.00	0.00	C
ATOM	3076	O	GLY	327	39.870	81.014	17.534	1.00	0.00	O
ATOM	3077	N	ALA	328	38.704	79.085	17.648	1.00	0.00	N
ATOM	3078	HN	ALA	328	38.241	78.317	17.162	1.00	0.00	H
ATOM	3079	CA	ALA	328	38.775	79.124	19.070	1.00	0.00	C
ATOM	3080	CB	ALA	328	38.022	77.954	19.724	1.00	0.00	C
ATOM	3081	C	ALA	328	40.199	79.049	19.528	1.00	0.00	C
ATOM	3082	O	ALA	328	40.702	80.011	20.104	1.00	0.00	O
ATOM	3083	N	ALA	329	40.926	77.960	19.193	1.00	0.00	N
ATOM	3084	HN	ALA	329	40.545	77.247	18.571	1.00	0.00	H
ATOM	3085	CA	ALA	329	42.249	77.834	19.737	1.00	0.00	C
ATOM	3086	CB	ALA	329	43.010	76.560	19.338	1.00	0.00	C
ATOM	3087	C	ALA	329	43.082	78.929	19.239	1.00	0.00	C
ATOM	3088	O	ALA	329	43.490	79.723	20.048	1.00	0.00	O
ATOM	3089	N	TYR	330	43.218	79.139	17.927	1.00	0.00	N
ATOM	3090	HN	TYR	330	42.620	78.635	17.272	1.00	0.00	H
ATOM	3091	CA	TYR	330	44.195	80.066	17.425	1.00	0.00	C
ATOM	3092	CB	TYR	330	44.108	80.132	15.890	1.00	0.00	C
ATOM	3093	CG	TYR	330	44.554	81.470	15.427	1.00	0.00	C
ATOM	3094	CD1	TYR	330	45.880	81.768	15.227	1.00	0.00	C
ATOM	3095	CD2	TYR	330	43.602	82.435	15.195	1.00	0.00	C
ATOM	3096	CE1	TYR	330	46.247	83.023	14.800	1.00	0.00	C
ATOM	3097	CE2	TYR	330	43.964	83.690	14.768	1.00	0.00	C
ATOM	3098	CZ	TYR	330	45.292	83.985	14.573	1.00	0.00	C
ATOM	3099	OH	TYR	330	45.675	85.270	14.135	1.00	0.00	O
ATOM	3100	HH	TYR	330	45.015	85.935	13.978	1.00	0.00	H
ATOM	3101	C	TYR	330	44.069	81.451	18.001	1.00	0.00	C
ATOM	3102	O	TYR	330	45.067	82.016	18.451	1.00	0.00	O
ATOM	3103	N	GLU	331	42.862	82.045	18.021	1.00	0.00	N
ATOM	3104	HN	GLU	331	42.041	81.540	17.687	1.00	0.00	H
ATOM	3105	CA	GLU	331	42.726	83.393	18.513	1.00	0.00	C

ATOM	3106	CB	GLU	331	41.268	83.872	18.432	1.00	0.00	C
ATOM	3107	CG	GLU	331	40.684	83.916	17.021	1.00	0.00	C
ATOM	3108	CD	GLU	331	39.169	83.880	17.176	1.00	0.00	C
ATOM	3109	OE1	GLU	331	38.705	83.543	18.299	1.00	0.00	O
ATOM	3110	OE2	GLU	331	38.456	84.177	16.180	1.00	0.00	O
ATOM	3111	C	GLU	331	43.066	83.444	19.976	1.00	0.00	C
ATOM	3112	O	GLU	331	43.944	84.187	20.409	1.00	0.00	O
ATOM	3113	N	ILE	332	42.378	82.594	20.758	1.00	0.00	N
ATOM	3114	HN	ILE	332	41.745	81.952	20.280	1.00	0.00	H
ATOM	3115	CA	ILE	332	42.431	82.485	22.190	1.00	0.00	C
ATOM	3116	CB	ILE	332	41.450	81.548	22.834	1.00	0.00	C
ATOM	3117	CG1	ILE	332	41.854	80.088	22.570	1.00	0.00	C
ATOM	3118	CG2	ILE	332	40.035	81.917	22.348	1.00	0.00	C
ATOM	3119	CD1	ILE	332	41.111	79.075	23.439	1.00	0.00	C
ATOM	3120	C	ILE	332	43.751	81.926	22.587	1.00	0.00	C
ATOM	3121	O	ILE	332	43.936	81.614	23.756	1.00	0.00	O
ATOM	3122	N	PHE	333	44.482	81.441	21.572	1.00	0.00	N
ATOM	3123	HN	PHE	333	44.039	81.509	20.656	1.00	0.00	H
ATOM	3124	CA	PHE	333	45.790	80.840	21.565	1.00	0.00	C
ATOM	3125	CB	PHE	333	46.162	80.134	20.246	1.00	0.00	C
ATOM	3126	CG	PHE	333	47.520	79.526	20.331	1.00	0.00	C
ATOM	3127	CD1	PHE	333	48.645	80.281	20.096	1.00	0.00	C
ATOM	3128	CD2	PHE	333	47.664	78.189	20.627	1.00	0.00	C
ATOM	3129	CE1	PHE	333	49.898	79.716	20.165	1.00	0.00	C
ATOM	3130	CE2	PHE	333	48.912	77.618	20.698	1.00	0.00	C
ATOM	3131	CZ	PHE	333	50.030	78.382	20.467	1.00	0.00	C
ATOM	3132	C	PHE	333	46.777	81.926	21.695	1.00	0.00	C
ATOM	3133	O	PHE	333	47.794	81.810	22.368	1.00	0.00	O
ATOM	3134	N	LYS	334	46.510	83.026	20.990	1.00	0.00	N
ATOM	3135	HN	LYS	334	45.708	83.045	20.360	1.00	0.00	H
ATOM	3136	CA	LYS	334	47.343	84.174	21.115	1.00	0.00	C
ATOM	3137	CB	LYS	334	46.843	85.307	20.206	1.00	0.00	C
ATOM	3138	CG	LYS	334	47.035	84.972	18.724	1.00	0.00	C
ATOM	3139	CD	LYS	334	46.107	85.724	17.767	1.00	0.00	C
ATOM	3140	CE	LYS	334	45.479	86.987	18.355	1.00	0.00	C
ATOM	3141	NZ	LYS	334	44.374	86.621	19.268	1.00	0.00	N
ATOM	3142	HZ1	LYS	334	43.955	87.464	19.660	1.00	0.00	H
ATOM	3143	HZ2	LYS	334	44.676	85.970	19.993	1.00	0.00	H
ATOM	3144	HZ3	LYS	334	43.682	86.025	18.813	1.00	0.00	H
ATOM	3145	C	LYS	334	47.134	84.536	22.532	1.00	0.00	C
ATOM	3146	O	LYS	334	48.001	85.085	23.209	1.00	0.00	O
ATOM	3147	N	ILE	335	45.902	84.263	22.982	1.00	0.00	N
ATOM	3148	HN	ILE	335	45.193	83.955	22.317	1.00	0.00	H
ATOM	3149	CA	ILE	335	45.548	84.386	24.350	1.00	0.00	C
ATOM	3150	CB	ILE	335	44.078	84.214	24.593	1.00	0.00	C
ATOM	3151	CG1	ILE	335	43.267	85.280	23.835	1.00	0.00	C
ATOM	3152	CG2	ILE	335	43.858	84.218	26.115	1.00	0.00	C
ATOM	3153	CD1	ILE	335	43.560	86.710	24.279	1.00	0.00	C
ATOM	3154	C	ILE	335	46.264	83.313	25.116	1.00	0.00	C
ATOM	3155	O	ILE	335	46.655	83.524	26.263	1.00	0.00	O
ATOM	3156	N	ILE	336	46.369	82.093	24.540	1.00	0.00	N
ATOM	3157	HN	ILE	336	46.032	81.924	23.592	1.00	0.00	H
ATOM	3158	CA	ILE	336	46.972	81.048	25.313	1.00	0.00	C
ATOM	3159	CB	ILE	336	46.599	79.646	24.870	1.00	0.00	C
ATOM	3160	CG1	ILE	336	47.014	78.613	25.913	1.00	0.00	C
ATOM	3161	CG2	ILE	336	47.269	79.289	23.547	1.00	0.00	C
ATOM	3162	CD1	ILE	336	48.503	78.289	25.890	1.00	0.00	C
ATOM	3163	C	ILE	336	48.468	81.197	25.469	1.00	0.00	C
ATOM	3164	O	ILE	336	48.930	81.558	26.549	1.00	0.00	O
ATOM	3165	N	ASP	337	49.256	81.087	24.374	1.00	0.00	N
ATOM	3166	HN	ASP	337	48.834	81.036	23.447	1.00	0.00	H
ATOM	3167	CA	ASP	337	50.679	81.042	24.514	1.00	0.00	C
ATOM	3168	CB	ASP	337	51.470	80.906	23.198	1.00	0.00	C
ATOM	3169	CG	ASP	337	51.543	79.437	22.804	1.00	0.00	C
ATOM	3170	OD1	ASP	337	50.670	78.648	23.251	1.00	0.00	O
ATOM	3171	OD2	ASP	337	52.497	79.082	22.061	1.00	0.00	O
ATOM	3172	C	ASP	337	51.204	82.293	25.200	1.00	0.00	C
ATOM	3173	O	ASP	337	51.813	82.208	26.266	1.00	0.00	O
ATOM	3174	N	ASN	338	50.881	83.494	24.676	1.00	0.00	N
ATOM	3175	HN	ASN	338	50.194	83.507	23.922	1.00	0.00	H
ATOM	3176	CA	ASN	338	51.433	84.772	25.100	1.00	0.00	C
ATOM	3177	CB	ASN	338	50.550	85.951	24.698	1.00	0.00	C
ATOM	3178	CG	ASN	338	49.281	85.793	25.518	1.00	0.00	C
ATOM	3179	OD1	ASN	338	48.854	84.679	25.815	1.00	0.00	O

ATOM	3180	ND2	ASN	338	48.663	86.936	25.906	1.00	0.00	N
ATOM	3181	1HD2	ASN	338	47.811	86.830	26.457	1.00	0.00	H
ATOM	3182	2HD2	ASN	338	49.017	87.860	25.660	1.00	0.00	H
ATOM	3183	C	ASN	338	51.647	84.937	26.623	1.00	0.00	C
ATOM	3184	O	ASN	338	50.805	84.562	27.435	1.00	0.00	O
ATOM	3185	N	LYS	339	52.837	85.502	27.005	1.00	0.00	N
ATOM	3186	HN	LYS	339	53.406	85.757	26.198	1.00	0.00	H
ATOM	3187	CA	LYS	339	53.514	85.839	28.271	1.00	0.00	C
ATOM	3188	CB	LYS	339	55.042	85.682	28.216	1.00	0.00	C
ATOM	3189	CG	LYS	339	55.545	84.394	28.873	1.00	0.00	C
ATOM	3190	CD	LYS	339	55.053	83.090	28.252	1.00	0.00	C
ATOM	3191	CE	LYS	339	55.611	81.850	28.961	1.00	0.00	C
ATOM	3192	NZ	LYS	339	55.022	81.704	30.314	1.00	0.00	N
ATOM	3193	HZ1	LYS	339	55.393	80.879	30.786	1.00	0.00	H
ATOM	3194	HZ2	LYS	339	54.003	81.693	30.282	1.00	0.00	H
ATOM	3195	HZ3	LYS	339	55.150	82.547	30.873	1.00	0.00	H
ATOM	3196	C	LYS	339	53.253	87.134	29.024	1.00	0.00	C
ATOM	3197	O	LYS	339	54.044	87.350	29.944	1.00	0.00	O
ATOM	3198	N	PRO	340	52.357	88.054	28.753	1.00	0.00	N
ATOM	3199	CA	PRO	340	52.415	89.383	29.381	1.00	0.00	C
ATOM	3200	CD	PRO	340	51.001	87.682	28.388	1.00	0.00	C
ATOM	3201	CB	PRO	340	51.017	89.977	29.179	1.00	0.00	C
ATOM	3202	CG	PRO	340	50.102	88.744	29.040	1.00	0.00	C
ATOM	3203	C	PRO	340	52.932	89.658	30.816	1.00	0.00	C
ATOM	3204	O	PRO	340	54.096	90.035	30.945	1.00	0.00	O
ATOM	3205	N	SER	341	52.130	89.536	31.897	1.00	0.00	N
ATOM	3206	HN	SER	341	51.131	89.423	31.723	1.00	0.00	H
ATOM	3207	CA	SER	341	52.566	89.552	33.296	1.00	0.00	C
ATOM	3208	CB	SER	341	53.399	88.309	33.630	1.00	0.00	C
ATOM	3209	OG	SER	341	54.628	88.364	32.922	1.00	0.00	O
ATOM	3210	HG	SER	341	55.144	87.594	33.129	1.00	0.00	H
ATOM	3211	C	SER	341	53.349	90.723	33.923	1.00	0.00	C
ATOM	3212	O	SER	341	53.922	90.520	34.976	1.00	0.00	O
ATOM	3213	N	ILE	342	53.450	91.964	33.441	1.00	0.00	N
ATOM	3214	HN	ILE	342	52.959	92.203	32.580	1.00	0.00	H
ATOM	3215	CA	ILE	342	54.250	92.997	34.117	1.00	0.00	C
ATOM	3216	CB	ILE	342	54.548	94.141	33.197	1.00	0.00	C
ATOM	3217	CG1	ILE	342	55.294	93.628	31.954	1.00	0.00	C
ATOM	3218	CG2	ILE	342	55.346	95.193	33.984	1.00	0.00	C
ATOM	3219	CD1	ILE	342	56.644	92.991	32.280	1.00	0.00	C
ATOM	3220	C	ILE	342	53.612	93.560	35.360	1.00	0.00	C
ATOM	3221	O	ILE	342	54.270	94.087	36.261	1.00	0.00	O
ATOM	3222	N	ASP	343	52.279	93.527	35.388	1.00	0.00	N
ATOM	3223	HN	ASP	343	51.804	92.977	34.672	1.00	0.00	H
ATOM	3224	CA	ASP	343	51.464	94.209	36.353	1.00	0.00	C
ATOM	3225	CB	ASP	343	49.958	94.014	36.132	1.00	0.00	C
ATOM	3226	CG	ASP	343	49.627	92.584	36.536	1.00	0.00	C
ATOM	3227	OD1	ASP	343	50.123	91.637	35.871	1.00	0.00	O
ATOM	3228	OD2	ASP	343	48.873	92.422	37.533	1.00	0.00	O
ATOM	3229	C	ASP	343	51.689	93.703	37.733	1.00	0.00	C
ATOM	3230	O	ASP	343	51.080	94.218	38.667	1.00	0.00	O
ATOM	3231	N	SER	344	52.449	92.614	37.905	1.00	0.00	N
ATOM	3232	HN	SER	344	52.950	92.186	37.127	1.00	0.00	H
ATOM	3233	CA	SER	344	52.526	92.079	39.227	1.00	0.00	C
ATOM	3234	CB	SER	344	51.335	91.152	39.504	1.00	0.00	C
ATOM	3235	OG	SER	344	51.416	90.629	40.817	1.00	0.00	O
ATOM	3236	HG	SER	344	50.679	90.055	40.988	1.00	0.00	H
ATOM	3237	C	SER	344	53.766	91.272	39.347	1.00	0.00	C
ATOM	3238	O	SER	344	54.647	91.643	40.124	1.00	0.00	O
ATOM	3239	N	TYR	345	53.818	90.115	38.637	1.00	0.00	N
ATOM	3240	HN	TYR	345	53.007	89.797	38.106	1.00	0.00	H
ATOM	3241	CA	TYR	345	55.024	89.349	38.644	1.00	0.00	C
ATOM	3242	CB	TYR	345	56.258	90.254	38.416	1.00	0.00	C
ATOM	3243	CG	TYR	345	57.506	89.507	38.101	1.00	0.00	C
ATOM	3244	CD1	TYR	345	57.472	88.259	37.526	1.00	0.00	C
ATOM	3245	CD2	TYR	345	58.722	90.073	38.407	1.00	0.00	C
ATOM	3246	CE1	TYR	345	58.646	87.603	37.237	1.00	0.00	C
ATOM	3247	CE2	TYR	345	59.895	89.424	38.115	1.00	0.00	C
ATOM	3248	CZ	TYR	345	59.857	88.186	37.525	1.00	0.00	C
ATOM	3249	OH	TYR	345	61.060	87.515	37.222	1.00	0.00	O
ATOM	3250	HH	TYR	345	61.897	87.918	37.421	1.00	0.00	H
ATOM	3251	C	TYR	345	55.049	88.624	39.947	1.00	0.00	C
ATOM	3252	O	TYR	345	54.171	88.828	40.783	1.00	0.00	O
ATOM	3253	N	SER	346	55.910	87.601	40.071	1.00	0.00	N

ATOM	3254	HN	SER	346	56.443	87.270	39.267	1.00	0.00	H
ATOM	3255	CA	SER	346	56.065	86.987	41.344	1.00	0.00	C
ATOM	3256	CB	SER	346	55.369	85.622	41.445	1.00	0.00	C
ATOM	3257	OG	SER	346	53.978	85.762	41.197	1.00	0.00	O
ATOM	3258	HG	SER	346	53.547	84.918	41.259	1.00	0.00	H
ATOM	3259	C	SER	346	57.525	86.727	41.451	1.00	0.00	C
ATOM	3260	O	SER	346	57.949	85.595	41.223	1.00	0.00	O
ATOM	3261	N	LYS	347	58.309	87.768	41.816	1.00	0.00	N
ATOM	3262	HN	LYS	347	57.865	88.661	42.032	1.00	0.00	H
ATOM	3263	CA	LYS	347	59.741	87.670	41.913	1.00	0.00	C
ATOM	3264	CB	LYS	347	60.517	88.123	40.671	1.00	0.00	C
ATOM	3265	CG	LYS	347	61.977	87.658	40.682	1.00	0.00	C
ATOM	3266	CD	LYS	347	62.779	88.094	39.464	1.00	0.00	C
ATOM	3267	CE	LYS	347	62.852	89.615	39.358	1.00	0.00	C
ATOM	3268	NZ	LYS	347	63.330	90.178	40.640	1.00	0.00	N
ATOM	3269	HZ1	LYS	347	63.379	91.194	40.569	1.00	0.00	H
ATOM	3270	HZ2	LYS	347	64.217	89.769	40.933	1.00	0.00	H
ATOM	3271	HZ3	LYS	347	62.761	89.874	41.430	1.00	0.00	H
ATOM	3272	C	LYS	347	60.200	88.569	43.069	1.00	0.00	C
ATOM	3273	O	LYS	347	59.386	88.982	43.888	1.00	0.00	O
ATOM	3274	N	SER	348	61.513	88.944	43.143	1.00	0.00	N
ATOM	3275	HN	SER	348	62.095	88.706	42.340	1.00	0.00	H
ATOM	3276	CA	SER	348	62.180	89.646	44.238	1.00	0.00	C
ATOM	3277	CB	SER	348	63.681	89.839	43.972	1.00	0.00	C
ATOM	3278	OG	SER	348	64.334	90.303	45.143	1.00	0.00	O
ATOM	3279	HG	SER	348	65.262	90.422	44.979	1.00	0.00	H
ATOM	3280	C	SER	348	61.569	91.007	44.560	1.00	0.00	C
ATOM	3281	O	SER	348	60.497	91.348	44.076	1.00	0.00	O
ATOM	3282	N	GLY	349	62.178	91.829	45.460	1.00	0.00	N
ATOM	3283	HN	GLY	349	63.052	91.568	45.916	1.00	0.00	H
ATOM	3284	CA	GLY	349	61.521	93.096	45.738	1.00	0.00	C
ATOM	3285	C	GLY	349	61.984	93.775	47.021	1.00	0.00	C
ATOM	3286	O	GLY	349	63.165	93.744	47.371	1.00	0.00	O
ATOM	3287	N	HIS	350	61.019	94.438	47.727	1.00	0.00	N
ATOM	3288	HN	HIS	350	60.063	94.317	47.394	1.00	0.00	H
ATOM	3289	CA	HIS	350	61.181	95.298	48.897	1.00	0.00	C
ATOM	3290	ND1	HIS	350	61.680	98.730	49.405	1.00	0.00	N
ATOM	3291	HD1	HIS	350	62.332	98.789	48.623	1.00	0.00	H
ATOM	3292	CG	HIS	350	60.728	97.758	49.607	1.00	0.00	C
ATOM	3293	CB	HIS	350	60.469	96.641	48.641	1.00	0.00	C
ATOM	3294	NE2	HIS	350	60.640	99.244	51.300	1.00	0.00	N
ATOM	3295	HE2	HIS	350	60.367	99.722	52.159	1.00	0.00	H
ATOM	3296	CD2	HIS	350	60.103	98.083	50.770	1.00	0.00	C
ATOM	3297	CE1	HIS	350	61.584	99.595	50.447	1.00	0.00	C
ATOM	3298	C	HIS	350	60.529	94.667	50.118	1.00	0.00	C
ATOM	3299	O	HIS	350	59.539	93.954	49.984	1.00	0.00	O
ATOM	3300	N	LYS	351	61.052	94.908	51.356	1.00	0.00	N
ATOM	3301	HN	LYS	351	61.854	95.531	51.456	1.00	0.00	H
ATOM	3302	CA	LYS	351	60.470	94.279	52.537	1.00	0.00	C
ATOM	3303	CB	LYS	351	61.302	93.099	53.066	1.00	0.00	C
ATOM	3304	CG	LYS	351	60.910	91.731	52.507	1.00	0.00	C
ATOM	3305	CD	LYS	351	61.191	91.494	51.027	1.00	0.00	C
ATOM	3306	CE	LYS	351	60.729	90.107	50.577	1.00	0.00	C
ATOM	3307	NZ	LYS	351	61.041	89.899	49.146	1.00	0.00	N
ATOM	3308	HZ1	LYS	351	60.733	88.974	48.846	1.00	0.00	H
ATOM	3309	HZ2	LYS	351	62.029	90.054	48.946	1.00	0.00	H
ATOM	3310	HZ3	LYS	351	60.651	90.638	48.561	1.00	0.00	H
ATOM	3311	C	LYS	351	60.251	95.186	53.740	1.00	0.00	C
ATOM	3312	O	LYS	351	61.196	95.546	54.447	1.00	0.00	O
ATOM	3313	N	PRO	352	59.021	95.570	54.015	1.00	0.00	N
ATOM	3314	CA	PRO	352	58.679	96.314	55.223	1.00	0.00	C
ATOM	3315	CD	PRO	352	58.028	95.736	52.973	1.00	0.00	C
ATOM	3316	CB	PRO	352	57.381	97.059	54.901	1.00	0.00	C
ATOM	3317	CG	PRO	352	56.794	96.292	53.702	1.00	0.00	C
ATOM	3318	C	PRO	352	58.560	95.392	56.399	1.00	0.00	C
ATOM	3319	O	PRO	352	57.449	94.967	56.723	1.00	0.00	O
ATOM	3320	N	ASP	353	59.666	95.160	57.116	1.00	0.00	N
ATOM	3321	HN	ASP	353	60.519	95.676	56.899	1.00	0.00	H
ATOM	3322	CA	ASP	353	59.677	94.204	58.180	1.00	0.00	C
ATOM	3323	CB	ASP	353	61.092	93.715	58.522	1.00	0.00	C
ATOM	3324	CG	ASP	353	61.529	92.892	57.308	1.00	0.00	C
ATOM	3325	OD1	ASP	353	60.821	92.964	56.267	1.00	0.00	O
ATOM	3326	OD2	ASP	353	62.564	92.179	57.401	1.00	0.00	O
ATOM	3327	C	ASP	353	58.956	94.702	59.382	1.00	0.00	C

ATOM	3328	O	ASP	353	58.488	93.886	60.178	1.00	0.00	O
ATOM	3329	N	ASN	354	58.888	96.041	59.561	1.00	0.00	N
ATOM	3330	HN	ASN	354	59.374	96.664	58.917	1.00	0.00	H
ATOM	3331	CA	ASN	354	58.135	96.589	60.653	1.00	0.00	C
ATOM	3332	CB	ASN	354	58.010	98.120	60.577	1.00	0.00	C
ATOM	3333	CG	ASN	354	57.338	98.470	59.254	1.00	0.00	C
ATOM	3334	OD1	ASN	354	56.113	98.477	59.153	1.00	0.00	O
ATOM	3335	ND2	ASN	354	58.157	98.751	58.205	1.00	0.00	N
ATOM	3336	1HD2	ASN	354	57.707	98.985	57.320	1.00	0.00	H
ATOM	3337	2HD2	ASN	354	59.174	98.745	58.289	1.00	0.00	H
ATOM	3338	C	ASN	354	56.788	95.985	60.440	1.00	0.00	C
ATOM	3339	O	ASN	354	56.267	95.957	59.336	1.00	0.00	O
ATOM	3340	N	ILE	355	56.225	95.310	61.434	1.00	0.00	N
ATOM	3341	HN	ILE	355	56.600	95.259	62.381	1.00	0.00	H
ATOM	3342	CA	ILE	355	55.028	94.666	61.007	1.00	0.00	C
ATOM	3343	CB	ILE	355	54.642	93.605	61.988	1.00	0.00	C
ATOM	3344	CG1	ILE	355	55.846	92.677	62.222	1.00	0.00	C
ATOM	3345	CG2	ILE	355	53.397	92.885	61.452	1.00	0.00	C
ATOM	3346	CD1	ILE	355	56.425	92.087	60.938	1.00	0.00	C
ATOM	3347	C	ILE	355	53.841	95.593	60.837	1.00	0.00	C
ATOM	3348	O	ILE	355	53.564	96.041	59.729	1.00	0.00	O
ATOM	3349	N	LYS	356	53.259	96.075	61.960	1.00	0.00	N
ATOM	3350	HN	LYS	356	53.772	95.964	62.835	1.00	0.00	H
ATOM	3351	CA	LYS	356	51.969	96.736	62.028	1.00	0.00	C
ATOM	3352	CB	LYS	356	51.517	97.009	63.472	1.00	0.00	C
ATOM	3353	CG	LYS	356	51.220	95.741	64.277	1.00	0.00	C
ATOM	3354	CD	LYS	356	50.047	94.923	63.731	1.00	0.00	C
ATOM	3355	CE	LYS	356	48.676	95.493	64.102	1.00	0.00	C
ATOM	3356	NZ	LYS	356	48.344	95.142	65.501	1.00	0.00	N
ATOM	3357	HZ1	LYS	356	47.430	95.522	65.748	1.00	0.00	H
ATOM	3358	HZ2	LYS	356	49.071	95.439	66.152	1.00	0.00	H
ATOM	3359	HZ3	LYS	356	48.398	94.137	65.666	1.00	0.00	H
ATOM	3360	C	LYS	356	51.934	98.044	61.306	1.00	0.00	C
ATOM	3361	O	LYS	356	52.968	98.626	60.978	1.00	0.00	O
ATOM	3362	N	GLY	357	50.694	98.513	61.012	1.00	0.00	N
ATOM	3363	HN	GLY	357	49.873	97.961	61.260	1.00	0.00	H
ATOM	3364	CA	GLY	357	50.530	99.780	60.355	1.00	0.00	C
ATOM	3365	C	GLY	357	49.082	100.020	60.034	1.00	0.00	C
ATOM	3366	O	GLY	357	48.219	99.167	60.230	1.00	0.00	O
ATOM	3367	N	ASN	358	48.790	101.221	59.494	1.00	0.00	N
ATOM	3368	HN	ASN	358	49.552	101.868	59.290	1.00	0.00	H
ATOM	3369	CA	ASN	358	47.444	101.620	59.196	1.00	0.00	C
ATOM	3370	CB	ASN	358	47.128	103.035	59.707	1.00	0.00	C
ATOM	3371	CG	ASN	358	47.429	103.083	61.199	1.00	0.00	C
ATOM	3372	OD1	ASN	358	48.554	102.826	61.625	1.00	0.00	O
ATOM	3373	ND2	ASN	358	46.403	103.434	62.019	1.00	0.00	N
ATOM	3374	1HD2	ASN	358	45.470	103.647	61.666	1.00	0.00	H
ATOM	3375	2HD2	ASN	358	46.605	103.466	63.018	1.00	0.00	H
ATOM	3376	C	ASN	358	47.325	101.685	57.714	1.00	0.00	C
ATOM	3377	O	ASN	358	48.268	102.064	57.024	1.00	0.00	O
ATOM	3378	N	LEU	359	46.160	101.284	57.179	1.00	0.00	N
ATOM	3379	HN	LEU	359	45.416	100.926	57.778	1.00	0.00	H
ATOM	3380	CA	LEU	359	45.970	101.362	55.762	1.00	0.00	C
ATOM	3381	CB	LEU	359	44.834	100.451	55.268	1.00	0.00	C
ATOM	3382	CG	LEU	359	45.158	98.948	55.409	1.00	0.00	C
ATOM	3383	CD1	LEU	359	45.471	98.562	56.865	1.00	0.00	C
ATOM	3384	CD2	LEU	359	44.042	98.082	54.804	1.00	0.00	C
ATOM	3385	C	LEU	359	45.651	102.787	55.445	1.00	0.00	C
ATOM	3386	O	LEU	359	45.011	103.481	56.232	1.00	0.00	O
ATOM	3387	N	GLU	360	46.128	103.284	54.289	1.00	0.00	N
ATOM	3388	HN	GLU	360	46.684	102.706	53.659	1.00	0.00	H
ATOM	3389	CA	GLU	360	45.833	104.647	53.968	1.00	0.00	C
ATOM	3390	CB	GLU	360	47.046	105.574	54.156	1.00	0.00	C
ATOM	3391	CG	GLU	360	47.615	105.587	55.578	1.00	0.00	C
ATOM	3392	CD	GLU	360	46.692	106.410	56.461	1.00	0.00	C
ATOM	3393	OE1	GLU	360	45.515	105.998	56.631	1.00	0.00	O
ATOM	3394	OE2	GLU	360	47.155	107.464	56.974	1.00	0.00	O
ATOM	3395	C	GLU	360	45.484	104.709	52.518	1.00	0.00	C
ATOM	3396	O	GLU	360	46.362	104.643	51.661	1.00	0.00	O
ATOM	3397	N	PHE	361	44.188	104.855	52.190	1.00	0.00	N
ATOM	3398	HN	PHE	361	43.463	104.869	52.908	1.00	0.00	H
ATOM	3399	CA	PHE	361	43.855	104.990	50.805	1.00	0.00	C
ATOM	3400	CB	PHE	361	42.523	104.328	50.424	1.00	0.00	C
ATOM	3401	CG	PHE	361	42.802	102.869	50.334	1.00	0.00	C

ATOM	3402	CD1	PHE	361	42.797	102.074	51.456	1.00	0.00	C
ATOM	3403	CD2	PHE	361	43.096	102.304	49.115	1.00	0.00	C
ATOM	3404	CE1	PHE	361	43.063	100.729	51.358	1.00	0.00	C
ATOM	3405	CE2	PHE	361	43.361	100.960	49.011	1.00	0.00	C
ATOM	3406	CZ	PHE	361	43.344	100.170	50.135	1.00	0.00	C
ATOM	3407	C	PHE	361	43.755	106.452	50.565	1.00	0.00	C
ATOM	3408	O	PHE	361	42.808	107.100	51.006	1.00	0.00	O
ATOM	3409	N	ARG	362	44.751	107.025	49.864	1.00	0.00	N
ATOM	3410	HN	ARG	362	45.523	106.482	49.477	1.00	0.00	H
ATOM	3411	CA	ARG	362	44.661	108.437	49.695	1.00	0.00	C
ATOM	3412	CB	ARG	362	45.775	109.255	50.373	1.00	0.00	C
ATOM	3413	CG	ARG	362	45.389	109.678	51.792	1.00	0.00	C
ATOM	3414	CD	ARG	362	46.243	110.816	52.356	1.00	0.00	C
ATOM	3415	NE	ARG	362	47.355	110.222	53.147	1.00	0.00	N
ATOM	3416	HE	ARG	362	48.256	110.013	52.716	1.00	0.00	H
ATOM	3417	CZ	ARG	362	47.129	109.966	54.469	1.00	0.00	C
ATOM	3418	NH1	ARG	362	45.889	110.198	54.989	1.00	0.00	N
ATOM	3419	1HH1	ARG	362	45.144	110.557	54.392	1.00	0.00	H
ATOM	3420	2HH1	ARG	362	45.720	110.007	55.977	1.00	0.00	H
ATOM	3421	NH2	ARG	362	48.126	109.486	55.267	1.00	0.00	N
ATOM	3422	1HH2	ARG	362	49.053	109.313	54.878	1.00	0.00	H
ATOM	3423	2HH2	ARG	362	47.957	109.295	56.255	1.00	0.00	H
ATOM	3424	C	ARG	362	44.569	108.842	48.265	1.00	0.00	C
ATOM	3425	O	ARG	362	45.435	108.548	47.442	1.00	0.00	O
ATOM	3426	N	ASN	363	43.459	109.547	47.971	1.00	0.00	N
ATOM	3427	HN	ASN	363	42.761	109.643	48.709	1.00	0.00	H
ATOM	3428	CA	ASN	363	43.171	110.173	46.716	1.00	0.00	C
ATOM	3429	CB	ASN	363	43.930	111.504	46.550	1.00	0.00	C
ATOM	3430	CG	ASN	363	43.328	112.288	45.395	1.00	0.00	C
ATOM	3431	OD1	ASN	363	42.837	111.716	44.424	1.00	0.00	O
ATOM	3432	ND2	ASN	363	43.363	113.642	45.503	1.00	0.00	N
ATOM	3433	1HD2	ASN	363	43.770	114.117	46.309	1.00	0.00	H
ATOM	3434	2HD2	ASN	363	42.959	114.168	44.728	1.00	0.00	H
ATOM	3435	C	ASN	363	43.528	109.253	45.597	1.00	0.00	C
ATOM	3436	O	ASN	363	44.404	109.565	44.792	1.00	0.00	O
ATOM	3437	N	VAL	364	42.859	108.088	45.511	1.00	0.00	N
ATOM	3438	HN	VAL	364	42.111	107.866	46.167	1.00	0.00	H
ATOM	3439	CA	VAL	364	43.224	107.168	44.475	1.00	0.00	C
ATOM	3440	CB	VAL	364	43.435	105.768	44.971	1.00	0.00	C
ATOM	3441	CG1	VAL	364	43.652	104.839	43.765	1.00	0.00	C
ATOM	3442	CG2	VAL	364	44.601	105.782	45.970	1.00	0.00	C
ATOM	3443	C	VAL	364	42.160	107.090	43.438	1.00	0.00	C
ATOM	3444	O	VAL	364	40.997	106.799	43.718	1.00	0.00	O
ATOM	3445	N	HIS	365	42.575	107.332	42.184	1.00	0.00	N
ATOM	3446	HN	HIS	365	43.541	107.621	42.032	1.00	0.00	H
ATOM	3447	CA	HIS	365	41.712	107.199	41.061	1.00	0.00	C
ATOM	3448	ND1	HIS	365	42.328	110.294	41.458	1.00	0.00	N
ATOM	3449	HD1	HIS	365	43.087	109.909	42.019	1.00	0.00	H
ATOM	3450	CG	HIS	365	41.647	109.654	40.447	1.00	0.00	C
ATOM	3451	CB	HIS	365	41.941	108.265	39.984	1.00	0.00	C
ATOM	3452	NE2	HIS	365	40.817	111.735	40.693	1.00	0.00	N
ATOM	3453	HE2	HIS	365	40.256	112.578	40.568	1.00	0.00	H
ATOM	3454	CD2	HIS	365	40.727	110.548	39.993	1.00	0.00	C
ATOM	3455	CE1	HIS	365	41.794	111.535	41.563	1.00	0.00	C
ATOM	3456	C	HIS	365	42.164	105.925	40.449	1.00	0.00	C
ATOM	3457	O	HIS	365	43.345	105.588	40.516	1.00	0.00	O
ATOM	3458	N	PHE	366	41.229	105.153	39.881	1.00	0.00	N
ATOM	3459	HN	PHE	366	40.250	105.439	39.885	1.00	0.00	H
ATOM	3460	CA	PHE	366	41.619	103.929	39.273	1.00	0.00	C
ATOM	3461	CB	PHE	366	41.794	102.793	40.298	1.00	0.00	C
ATOM	3462	CG	PHE	366	41.823	101.495	39.568	1.00	0.00	C
ATOM	3463	CD1	PHE	366	42.947	101.066	38.902	1.00	0.00	C
ATOM	3464	CD2	PHE	366	40.699	100.700	39.567	1.00	0.00	C
ATOM	3465	CE1	PHE	366	42.941	99.861	38.236	1.00	0.00	C
ATOM	3466	CE2	PHE	366	40.687	99.495	38.905	1.00	0.00	C
ATOM	3467	CZ	PHE	366	41.812	99.076	38.236	1.00	0.00	C
ATOM	3468	C	PHE	366	40.559	103.530	38.328	1.00	0.00	C
ATOM	3469	O	PHE	366	39.366	103.613	38.608	1.00	0.00	O
ATOM	3470	N	SER	367	41.003	103.070	37.159	1.00	0.00	N
ATOM	3471	HN	SER	367	42.004	103.060	36.965	1.00	0.00	H
ATOM	3472	CA	SER	367	40.094	102.595	36.185	1.00	0.00	C
ATOM	3473	CB	SER	367	40.113	103.391	34.873	1.00	0.00	C
ATOM	3474	OG	SER	367	39.228	102.799	33.935	1.00	0.00	O
ATOM	3475	HG	SER	367	39.240	103.292	33.123	1.00	0.00	H

ATOM	3476	C	SER	367	40.575	101.232	35.879	1.00	0.00	C
ATOM	3477	O	SER	367	41.766	100.929	35.942	1.00	0.00	O
ATOM	3478	N	TYR	368	39.621	100.362	35.569	1.00	0.00	N
ATOM	3479	HN	TYR	368	38.642	100.647	35.594	1.00	0.00	H
ATOM	3480	CA	TYR	368	39.965	99.038	35.204	1.00	0.00	C
ATOM	3481	CB	TYR	368	38.746	98.185	34.794	1.00	0.00	C
ATOM	3482	CG	TYR	368	38.118	97.680	36.049	1.00	0.00	C
ATOM	3483	CD1	TYR	368	38.613	96.538	36.638	1.00	0.00	C
ATOM	3484	CD2	TYR	368	37.068	98.330	36.651	1.00	0.00	C
ATOM	3485	CE1	TYR	368	38.067	96.039	37.796	1.00	0.00	C
ATOM	3486	CE2	TYR	368	36.517	97.833	37.810	1.00	0.00	C
ATOM	3487	CZ	TYR	368	37.011	96.688	38.385	1.00	0.00	C
ATOM	3488	OH	TYR	368	36.440	96.187	39.573	1.00	0.00	O
ATOM	3489	HH	TYR	368	36.782	95.395	39.971	1.00	0.00	H
ATOM	3490	C	TYR	368	40.994	99.055	34.100	1.00	0.00	C
ATOM	3491	O	TYR	368	41.134	100.032	33.365	1.00	0.00	O
ATOM	3492	N	PRO	369	41.766	97.998	34.004	1.00	0.00	N
ATOM	3493	CA	PRO	369	42.839	97.923	33.050	1.00	0.00	C
ATOM	3494	CD	PRO	369	41.309	96.673	34.392	1.00	0.00	C
ATOM	3495	CB	PRO	369	43.341	96.487	33.106	1.00	0.00	C
ATOM	3496	CG	PRO	369	42.075	95.708	33.487	1.00	0.00	C
ATOM	3497	C	PRO	369	42.400	98.284	31.670	1.00	0.00	C
ATOM	3498	O	PRO	369	43.252	98.707	30.892	1.00	0.00	O
ATOM	3499	N	SER	370	41.126	98.069	31.293	1.00	0.00	N
ATOM	3500	HN	SER	370	40.453	97.590	31.892	1.00	0.00	H
ATOM	3501	CA	SER	370	40.781	98.560	29.991	1.00	0.00	C
ATOM	3502	CB	SER	370	39.358	98.199	29.538	1.00	0.00	C
ATOM	3503	OG	SER	370	39.231	96.799	29.347	1.00	0.00	O
ATOM	3504	HG	SER	370	38.351	96.576	29.067	1.00	0.00	H
ATOM	3505	C	SER	370	40.903	100.043	30.131	1.00	0.00	C
ATOM	3506	O	SER	370	40.219	100.670	30.931	1.00	0.00	O
ATOM	3507	N	ARG	371	41.719	100.672	29.283	1.00	0.00	N
ATOM	3508	HN	ARG	371	42.052	100.190	28.448	1.00	0.00	H
ATOM	3509	CA	ARG	371	42.131	102.025	29.540	1.00	0.00	C
ATOM	3510	CB	ARG	371	43.152	102.560	28.514	1.00	0.00	C
ATOM	3511	CG	ARG	371	42.533	102.825	27.149	1.00	0.00	C
ATOM	3512	CD	ARG	371	41.942	104.234	27.097	1.00	0.00	C
ATOM	3513	NE	ARG	371	40.718	104.177	26.257	1.00	0.00	N
ATOM	3514	HE	ARG	371	39.833	103.942	26.706	1.00	0.00	H
ATOM	3515	CZ	ARG	371	40.718	104.423	24.916	1.00	0.00	C
ATOM	3516	NH1	ARG	371	41.864	104.773	24.265	1.00	0.00	N
ATOM	3517	1HH1	ARG	371	42.744	104.851	24.775	1.00	0.00	H
ATOM	3518	2HH1	ARG	371	41.864	104.957	23.262	1.00	0.00	H
ATOM	3519	NH2	ARG	371	39.541	104.319	24.233	1.00	0.00	N
ATOM	3520	1HH2	ARG	371	38.684	104.057	24.720	1.00	0.00	H
ATOM	3521	2HH2	ARG	371	39.541	104.503	23.230	1.00	0.00	H
ATOM	3522	C	ARG	371	40.984	103.016	29.628	1.00	0.00	C
ATOM	3523	O	ARG	371	41.092	103.995	30.362	1.00	0.00	O
ATOM	3524	N	LYS	372	39.906	102.865	28.832	1.00	0.00	N
ATOM	3525	HN	LYS	372	39.861	102.042	28.232	1.00	0.00	H
ATOM	3526	CA	LYS	372	38.806	103.812	28.784	1.00	0.00	C
ATOM	3527	CB	LYS	372	38.096	103.831	27.419	1.00	0.00	C
ATOM	3528	CG	LYS	372	38.357	102.593	26.563	1.00	0.00	C
ATOM	3529	CD	LYS	372	37.828	101.266	27.096	1.00	0.00	C
ATOM	3530	CE	LYS	372	38.179	100.116	26.149	1.00	0.00	C
ATOM	3531	NZ	LYS	372	37.548	98.859	26.600	1.00	0.00	N
ATOM	3532	HZ1	LYS	372	37.782	98.093	25.969	1.00	0.00	H
ATOM	3533	HZ2	LYS	372	36.540	98.961	26.713	1.00	0.00	H
ATOM	3534	HZ3	LYS	372	37.789	98.640	27.567	1.00	0.00	H
ATOM	3535	C	LYS	372	37.758	103.841	29.879	1.00	0.00	C
ATOM	3536	O	LYS	372	37.287	104.925	30.222	1.00	0.00	O
ATOM	3537	N	GLU	373	37.352	102.695	30.468	1.00	0.00	N
ATOM	3538	HN	GLU	373	37.862	101.830	30.289	1.00	0.00	H
ATOM	3539	CA	GLU	373	36.202	102.677	31.350	1.00	0.00	C
ATOM	3540	CB	GLU	373	35.871	101.296	31.945	1.00	0.00	C
ATOM	3541	CG	GLU	373	35.361	100.302	30.896	1.00	0.00	C
ATOM	3542	CD	GLU	373	36.576	99.807	30.143	1.00	0.00	C
ATOM	3543	OE1	GLU	373	37.689	100.028	30.688	1.00	0.00	O
ATOM	3544	OE2	GLU	373	36.424	99.224	29.035	1.00	0.00	O
ATOM	3545	C	GLU	373	36.330	103.662	32.466	1.00	0.00	C
ATOM	3546	O	GLU	373	37.407	104.182	32.750	1.00	0.00	O
ATOM	3547	N	VAL	374	35.177	103.966	33.102	1.00	0.00	N
ATOM	3548	HN	VAL	374	34.322	103.481	32.830	1.00	0.00	H
ATOM	3549	CA	VAL	374	35.116	104.945	34.144	1.00	0.00	C



ATOM	3550	CB	VAL	374	33.752	105.111	34.751	1.00	0.00	C
ATOM	3551	CG1	VAL	374	33.341	103.784	35.412	1.00	0.00	C
ATOM	3552	CG2	VAL	374	33.803	106.292	35.735	1.00	0.00	C
ATOM	3553	C	VAL	374	36.039	104.556	35.240	1.00	0.00	C
ATOM	3554	O	VAL	374	36.141	103.389	35.614	1.00	0.00	O
ATOM	3555	N	LYS	375	36.757	105.558	35.780	1.00	0.00	N
ATOM	3556	HN	LYS	375	36.654	106.513	35.436	1.00	0.00	H
ATOM	3557	CA	LYS	375	37.665	105.264	36.841	1.00	0.00	C
ATOM	3558	CB	LYS	375	38.364	106.512	37.407	1.00	0.00	C
ATOM	3559	CG	LYS	375	38.931	107.498	36.384	1.00	0.00	C
ATOM	3560	CD	LYS	375	40.074	106.976	35.520	1.00	0.00	C
ATOM	3561	CE	LYS	375	40.632	108.064	34.600	1.00	0.00	C
ATOM	3562	NZ	LYS	375	41.738	107.533	33.775	1.00	0.00	N
ATOM	3563	HZ1	LYS	375	42.110	108.258	33.162	1.00	0.00	H
ATOM	3564	HZ2	LYS	375	41.456	106.704	33.252	1.00	0.00	H
ATOM	3565	HZ3	LYS	375	42.469	107.111	34.348	1.00	0.00	H
ATOM	3566	C	LYS	375	36.775	104.829	37.947	1.00	0.00	C
ATOM	3567	O	LYS	375	36.181	105.674	38.616	1.00	0.00	O
ATOM	3568	N	ILE	376	36.734	103.510	38.210	1.00	0.00	N
ATOM	3569	HN	ILE	376	37.348	102.889	37.683	1.00	0.00	H
ATOM	3570	CA	ILE	376	35.871	102.941	39.193	1.00	0.00	C
ATOM	3571	CB	ILE	376	36.277	101.529	39.424	1.00	0.00	C
ATOM	3572	CG1	ILE	376	36.126	100.731	38.123	1.00	0.00	C
ATOM	3573	CG2	ILE	376	35.560	101.006	40.667	1.00	0.00	C
ATOM	3574	CD1	ILE	376	34.762	100.867	37.458	1.00	0.00	C
ATOM	3575	C	ILE	376	36.182	103.671	40.453	1.00	0.00	C
ATOM	3576	O	ILE	376	35.296	104.227	41.101	1.00	0.00	O
ATOM	3577	N	LEU	377	37.480	103.743	40.791	1.00	0.00	N
ATOM	3578	HN	LEU	377	38.189	103.233	40.264	1.00	0.00	H
ATOM	3579	CA	LEU	377	37.838	104.553	41.909	1.00	0.00	C
ATOM	3580	CB	LEU	377	39.148	104.126	42.599	1.00	0.00	C
ATOM	3581	CG	LEU	377	39.081	102.726	43.251	1.00	0.00	C
ATOM	3582	CD1	LEU	377	40.331	102.441	44.095	1.00	0.00	C
ATOM	3583	CD2	LEU	377	37.776	102.528	44.038	1.00	0.00	C
ATOM	3584	C	LEU	377	38.009	105.918	41.315	1.00	0.00	C
ATOM	3585	O	LEU	377	39.037	106.256	40.740	1.00	0.00	O
ATOM	3586	N	LYS	378	36.954	106.729	41.454	1.00	0.00	N
ATOM	3587	HN	LYS	378	36.194	106.349	42.018	1.00	0.00	H
ATOM	3588	CA	LYS	378	36.719	108.048	40.938	1.00	0.00	C
ATOM	3589	CB	LYS	378	35.246	108.470	41.046	1.00	0.00	C
ATOM	3590	CG	LYS	378	34.752	108.597	42.484	1.00	0.00	C
ATOM	3591	CD	LYS	378	33.395	109.284	42.594	1.00	0.00	C
ATOM	3592	CE	LYS	378	32.902	109.421	44.033	1.00	0.00	C
ATOM	3593	NZ	LYS	378	31.533	109.974	44.042	1.00	0.00	N
ATOM	3594	HZ1	LYS	378	31.204	110.065	45.003	1.00	0.00	H
ATOM	3595	HZ2	LYS	378	30.894	109.424	43.468	1.00	0.00	H
ATOM	3596	HZ3	LYS	378	31.471	110.854	43.530	1.00	0.00	H
ATOM	3597	C	LYS	378	37.543	109.086	41.633	1.00	0.00	C
ATOM	3598	O	LYS	378	37.301	110.278	41.440	1.00	0.00	O
ATOM	3599	N	GLY	379	38.496	108.689	42.498	1.00	0.00	N
ATOM	3600	HN	GLY	379	38.759	107.706	42.571	1.00	0.00	H
ATOM	3601	CA	GLY	379	39.132	109.684	43.314	1.00	0.00	C
ATOM	3602	C	GLY	379	38.580	109.449	44.677	1.00	0.00	C
ATOM	3603	O	GLY	379	37.660	110.121	45.143	1.00	0.00	O
ATOM	3604	N	LEU	380	39.117	108.379	45.297	1.00	0.00	N
ATOM	3605	HN	LEU	380	39.889	107.898	44.834	1.00	0.00	H
ATOM	3606	CA	LEU	380	38.677	107.873	46.560	1.00	0.00	C
ATOM	3607	CB	LEU	380	38.410	106.352	46.453	1.00	0.00	C
ATOM	3608	CG	LEU	380	38.205	105.574	47.766	1.00	0.00	C
ATOM	3609	CD1	LEU	380	39.549	105.283	48.456	1.00	0.00	C
ATOM	3610	CD2	LEU	380	37.203	106.281	48.690	1.00	0.00	C
ATOM	3611	C	LEU	380	39.685	108.128	47.629	1.00	0.00	C
ATOM	3612	O	LEU	380	40.884	107.913	47.452	1.00	0.00	O
ATOM	3613	N	ASN	381	39.183	108.612	48.782	1.00	0.00	N
ATOM	3614	HN	ASN	381	38.179	108.782	48.838	1.00	0.00	H
ATOM	3615	CA	ASN	381	39.983	108.899	49.929	1.00	0.00	C
ATOM	3616	CB	ASN	381	39.895	110.371	50.367	1.00	0.00	C
ATOM	3617	CG	ASN	381	40.370	111.233	49.202	1.00	0.00	C
ATOM	3618	OD1	ASN	381	39.563	111.770	48.446	1.00	0.00	O
ATOM	3619	ND2	ASN	381	41.711	111.367	49.038	1.00	0.00	N
ATOM	3620	1HD2	ASN	381	42.381	110.921	49.665	1.00	0.00	H
ATOM	3621	2HD2	ASN	381	42.029	111.944	48.259	1.00	0.00	H
ATOM	3622	C	ASN	381	39.408	108.079	51.034	1.00	0.00	C
ATOM	3623	O	ASN	381	38.188	107.968	51.173	1.00	0.00	O

ATOM	3624	N	LEU	382	40.283	107.435	51.826	1.00	0.00	N
ATOM	3625	HN	LEU	382	41.287	107.504	51.662	1.00	0.00	H
ATOM	3626	CA	LEU	382	39.768	106.653	52.901	1.00	0.00	C
ATOM	3627	CB	LEU	382	39.045	105.381	52.389	1.00	0.00	C
ATOM	3628	CG	LEU	382	38.307	104.496	53.423	1.00	0.00	C
ATOM	3629	CD1	LEU	382	37.622	103.312	52.720	1.00	0.00	C
ATOM	3630	CD2	LEU	382	39.221	104.009	54.556	1.00	0.00	C
ATOM	3631	C	LEU	382	40.943	106.249	53.720	1.00	0.00	C
ATOM	3632	O	LEU	382	42.005	105.915	53.193	1.00	0.00	O
ATOM	3633	N	LYS	383	40.785	106.301	55.050	1.00	0.00	N
ATOM	3634	HN	LYS	383	39.911	106.641	55.452	1.00	0.00	H
ATOM	3635	CA	LYS	383	41.851	105.876	55.897	1.00	0.00	C
ATOM	3636	CB	LYS	383	42.417	106.981	56.799	1.00	0.00	C
ATOM	3637	CG	LYS	383	43.010	108.176	56.058	1.00	0.00	C
ATOM	3638	CD	LYS	383	43.281	109.359	56.990	1.00	0.00	C
ATOM	3639	CE	LYS	383	42.131	109.640	57.961	1.00	0.00	C
ATOM	3640	NZ	LYS	383	40.906	110.006	57.215	1.00	0.00	N
ATOM	3641	HZ1	LYS	383	40.140	110.193	57.862	1.00	0.00	H
ATOM	3642	HZ2	LYS	383	40.656	109.299	56.524	1.00	0.00	H
ATOM	3643	HZ3	LYS	383	41.067	110.788	56.580	1.00	0.00	H
ATOM	3644	C	LYS	383	41.238	104.903	56.835	1.00	0.00	C
ATOM	3645	O	LYS	383	40.025	104.937	57.052	1.00	0.00	O
ATOM	3646	N	VAL	384	42.056	103.978	57.379	1.00	0.00	N
ATOM	3647	HN	VAL	384	43.033	103.911	57.094	1.00	0.00	H
ATOM	3648	CA	VAL	384	41.518	103.094	58.366	1.00	0.00	C
ATOM	3649	CB	VAL	384	41.082	101.767	57.811	1.00	0.00	C
ATOM	3650	CG1	VAL	384	42.289	101.036	57.196	1.00	0.00	C
ATOM	3651	CG2	VAL	384	40.392	100.991	58.942	1.00	0.00	C
ATOM	3652	C	VAL	384	42.582	102.862	59.400	1.00	0.00	C
ATOM	3653	O	VAL	384	43.694	102.420	59.102	1.00	0.00	O
ATOM	3654	N	GLN	385	42.225	103.119	60.668	1.00	0.00	N
ATOM	3655	HN	GLN	385	41.258	103.390	60.846	1.00	0.00	H
ATOM	3656	CA	GLN	385	43.114	103.037	61.785	1.00	0.00	C
ATOM	3657	CB	GLN	385	42.478	103.563	63.084	1.00	0.00	C
ATOM	3658	CG	GLN	385	42.062	105.033	62.991	1.00	0.00	C
ATOM	3659	CD	GLN	385	41.386	105.428	64.298	1.00	0.00	C
ATOM	3660	OE1	GLN	385	40.667	106.423	64.362	1.00	0.00	O
ATOM	3661	NE2	GLN	385	41.618	104.625	65.369	1.00	0.00	N
ATOM	3662	1HE2	GLN	385	42.215	103.799	65.316	1.00	0.00	H
ATOM	3663	2HE2	GLN	385	41.165	104.889	66.244	1.00	0.00	H
ATOM	3664	C	GLN	385	43.498	101.611	62.015	1.00	0.00	C
ATOM	3665	O	GLN	385	42.895	100.692	61.466	1.00	0.00	O
ATOM	3666	N	SER	386	44.558	101.403	62.823	1.00	0.00	N
ATOM	3667	HN	SER	386	45.044	102.207	63.219	1.00	0.00	H
ATOM	3668	CA	SER	386	45.021	100.082	63.141	1.00	0.00	C
ATOM	3669	CB	SER	386	46.354	100.077	63.906	1.00	0.00	C
ATOM	3670	OG	SER	386	46.193	100.731	65.158	1.00	0.00	O
ATOM	3671	HG	SER	386	47.017	100.728	65.631	1.00	0.00	H
ATOM	3672	C	SER	386	44.021	99.441	64.044	1.00	0.00	C
ATOM	3673	O	SER	386	43.169	100.109	64.625	1.00	0.00	O
ATOM	3674	N	GLY	387	44.049	98.097	64.087	1.00	0.00	N
ATOM	3675	HN	GLY	387	44.649	97.608	63.423	1.00	0.00	H
ATOM	3676	CA	GLY	387	43.283	97.310	65.013	1.00	0.00	C
ATOM	3677	C	GLY	387	41.805	97.422	64.751	1.00	0.00	C
ATOM	3678	O	GLY	387	41.017	96.651	65.295	1.00	0.00	O
ATOM	3679	N	GLN	388	41.378	98.367	63.896	1.00	0.00	N
ATOM	3680	HN	GLN	388	42.056	98.944	63.399	1.00	0.00	H
ATOM	3681	CA	GLN	388	39.978	98.569	63.678	1.00	0.00	C
ATOM	3682	CB	GLN	388	39.607	100.000	63.265	1.00	0.00	C
ATOM	3683	CG	GLN	388	39.784	100.994	64.415	1.00	0.00	C
ATOM	3684	CD	GLN	388	39.255	102.352	63.977	1.00	0.00	C
ATOM	3685	OE1	GLN	388	39.176	102.650	62.786	1.00	0.00	O
ATOM	3686	NE2	GLN	388	38.880	103.201	64.971	1.00	0.00	N
ATOM	3687	1HE2	GLN	388	38.525	104.111	64.677	1.00	0.00	H
ATOM	3688	2HE2	GLN	388	38.945	102.954	65.958	1.00	0.00	H
ATOM	3689	C	GLN	388	39.510	97.623	62.637	1.00	0.00	C
ATOM	3690	O	GLN	388	40.240	96.730	62.207	1.00	0.00	O
ATOM	3691	N	THR	389	38.213	97.738	62.303	1.00	0.00	N
ATOM	3692	HN	THR	389	37.620	98.400	62.804	1.00	0.00	H
ATOM	3693	CA	THR	389	37.656	96.946	61.257	1.00	0.00	C
ATOM	3694	CB	THR	389	36.915	95.752	61.764	1.00	0.00	C
ATOM	3695	OG1	THR	389	37.774	94.921	62.528	1.00	0.00	O
ATOM	3696	HG1	THR	389	38.100	95.402	63.280	1.00	0.00	H
ATOM	3697	CG2	THR	389	36.392	94.979	60.557	1.00	0.00	C

ATOM	3698	C	THR	389	36.657	97.825	60.564	1.00	0.00	C
ATOM	3699	O	THR	389	35.762	98.377	61.203	1.00	0.00	O
ATOM	3700	N	VAL	390	36.767	97.963	59.227	1.00	0.00	N
ATOM	3701	HN	VAL	390	37.484	97.452	58.713	1.00	0.00	H
ATOM	3702	CA	VAL	390	35.860	98.840	58.535	1.00	0.00	C
ATOM	3703	CB	VAL	390	36.523	99.848	57.645	1.00	0.00	C
ATOM	3704	CG1	VAL	390	37.499	100.691	58.469	1.00	0.00	C
ATOM	3705	CG2	VAL	390	37.150	99.107	56.458	1.00	0.00	C
ATOM	3706	C	VAL	390	35.004	98.032	57.607	1.00	0.00	C
ATOM	3707	O	VAL	390	35.441	97.031	57.041	1.00	0.00	O
ATOM	3708	N	ALA	391	33.747	98.483	57.411	1.00	0.00	N
ATOM	3709	HN	ALA	391	33.443	99.340	57.872	1.00	0.00	H
ATOM	3710	CA	ALA	391	32.830	97.772	56.561	1.00	0.00	C
ATOM	3711	CB	ALA	391	31.454	97.537	57.205	1.00	0.00	C
ATOM	3712	C	ALA	391	32.582	98.550	55.304	1.00	0.00	C
ATOM	3713	O	ALA	391	32.318	99.750	55.322	1.00	0.00	O
ATOM	3714	N	LEU	392	32.654	97.862	54.151	1.00	0.00	N
ATOM	3715	HN	LEU	392	32.897	96.871	54.161	1.00	0.00	H
ATOM	3716	CA	LEU	392	32.388	98.524	52.905	1.00	0.00	C
ATOM	3717	CB	LEU	392	33.458	98.257	51.837	1.00	0.00	C
ATOM	3718	CG	LEU	392	34.823	98.878	52.178	1.00	0.00	C
ATOM	3719	CD1	LEU	392	35.378	98.317	53.496	1.00	0.00	C
ATOM	3720	CD2	LEU	392	35.803	98.723	51.005	1.00	0.00	C
ATOM	3721	C	LEU	392	31.084	98.006	52.391	1.00	0.00	C
ATOM	3722	O	LEU	392	30.810	96.808	52.423	1.00	0.00	O
ATOM	3723	N	VAL	393	30.219	98.914	51.905	1.00	0.00	N
ATOM	3724	HN	VAL	393	30.467	99.902	51.851	1.00	0.00	H
ATOM	3725	CA	VAL	393	28.939	98.449	51.466	1.00	0.00	C
ATOM	3726	CB	VAL	393	27.849	99.063	52.291	1.00	0.00	C
ATOM	3727	CG1	VAL	393	26.500	98.547	51.805	1.00	0.00	C
ATOM	3728	CG2	VAL	393	28.129	98.780	53.774	1.00	0.00	C
ATOM	3729	C	VAL	393	28.712	98.861	50.035	1.00	0.00	C
ATOM	3730	O	VAL	393	28.616	100.049	49.755	1.00	0.00	O
ATOM	3731	N	GLY	394	28.566	97.895	49.096	1.00	0.00	N
ATOM	3732	HN	GLY	394	28.600	96.917	49.384	1.00	0.00	H
ATOM	3733	CA	GLY	394	28.363	98.208	47.695	1.00	0.00	C
ATOM	3734	C	GLY	394	27.554	97.092	47.082	1.00	0.00	C
ATOM	3735	O	GLY	394	27.218	96.128	47.769	1.00	0.00	O
ATOM	3736	N	ASN	395	27.186	97.203	45.777	1.00	0.00	N
ATOM	3737	HN	ASN	395	27.459	98.029	45.244	1.00	0.00	H
ATOM	3738	CA	ASN	395	26.411	96.160	45.138	1.00	0.00	C
ATOM	3739	CB	ASN	395	24.893	96.213	45.402	1.00	0.00	C
ATOM	3740	CG	ASN	395	24.539	95.301	46.573	1.00	0.00	C
ATOM	3741	OD1	ASN	395	25.343	94.481	47.014	1.00	0.00	O
ATOM	3742	ND2	ASN	395	23.271	95.405	47.055	1.00	0.00	N
ATOM	3743	1HD2	ASN	395	22.604	96.085	46.689	1.00	0.00	H
ATOM	3744	2HD2	ASN	395	23.034	94.795	47.838	1.00	0.00	H
ATOM	3745	C	ASN	395	26.556	96.116	43.649	1.00	0.00	C
ATOM	3746	O	ASN	395	26.733	95.036	43.088	1.00	0.00	O
ATOM	3747	N	SER	396	26.497	97.273	42.955	1.00	0.00	N
ATOM	3748	HN	SER	396	26.435	98.153	43.467	1.00	0.00	H
ATOM	3749	CA	SER	396	26.519	97.306	41.512	1.00	0.00	C
ATOM	3750	CB	SER	396	26.267	98.702	40.931	1.00	0.00	C
ATOM	3751	OG	SER	396	24.983	99.171	41.308	1.00	0.00	O
ATOM	3752	HG	SER	396	24.827	100.036	40.948	1.00	0.00	H
ATOM	3753	C	SER	396	27.842	96.809	41.032	1.00	0.00	C
ATOM	3754	O	SER	396	28.099	96.749	39.832	1.00	0.00	O
ATOM	3755	N	GLY	397	28.751	96.500	41.965	1.00	0.00	N
ATOM	3756	HN	GLY	397	28.578	96.734	42.943	1.00	0.00	H
ATOM	3757	CA	GLY	397	29.958	95.846	41.593	1.00	0.00	C
ATOM	3758	C	GLY	397	30.936	96.847	41.109	1.00	0.00	C
ATOM	3759	O	GLY	397	30.700	98.047	41.113	1.00	0.00	O
ATOM	3760	N	CYS	398	32.076	96.362	40.618	1.00	0.00	N
ATOM	3761	HN	CYS	398	32.233	95.355	40.587	1.00	0.00	H
ATOM	3762	CA	CYS	398	33.073	97.256	40.137	1.00	0.00	C
ATOM	3763	CB	CYS	398	32.685	97.957	38.825	1.00	0.00	C
ATOM	3764	SG	CYS	398	32.441	96.775	37.468	1.00	0.00	S
ATOM	3765	C	CYS	398	33.431	98.322	41.125	1.00	0.00	C
ATOM	3766	O	CYS	398	33.297	99.507	40.827	1.00	0.00	O
ATOM	3767	N	GLY	399	33.980	97.933	42.297	1.00	0.00	N
ATOM	3768	HN	GLY	399	34.039	96.948	42.556	1.00	0.00	H
ATOM	3769	CA	GLY	399	34.477	98.967	43.164	1.00	0.00	C
ATOM	3770	C	GLY	399	34.836	98.469	44.536	1.00	0.00	C
ATOM	3771	O	GLY	399	36.022	98.418	44.870	1.00	0.00	O

ATOM	3772	N	LYS	400	33.868	98.020	45.347	1.00	0.00	N
ATOM	3773	HN	LYS	400	32.915	97.916	44.999	1.00	0.00	H
ATOM	3774	CA	LYS	400	34.180	97.684	46.715	1.00	0.00	C
ATOM	3775	CB	LYS	400	32.978	97.071	47.446	1.00	0.00	C
ATOM	3776	CG	LYS	400	31.729	97.953	47.449	1.00	0.00	C
ATOM	3777	CD	LYS	400	31.062	98.095	46.077	1.00	0.00	C
ATOM	3778	CE	LYS	400	30.461	96.794	45.534	1.00	0.00	C
ATOM	3779	NZ	LYS	400	31.519	95.948	44.937	1.00	0.00	N
ATOM	3780	HZ1	LYS	400	31.119	95.082	44.576	1.00	0.00	H
ATOM	3781	HZ2	LYS	400	32.279	95.771	45.593	1.00	0.00	H
ATOM	3782	HZ3	LYS	400	32.049	96.449	44.224	1.00	0.00	H
ATOM	3783	C	LYS	400	35.235	96.632	46.740	1.00	0.00	C
ATOM	3784	O	LYS	400	36.343	96.862	47.223	1.00	0.00	O
ATOM	3785	N	SER	401	34.945	95.508	46.073	1.00	0.00	N
ATOM	3786	HN	SER	401	34.072	95.456	45.547	1.00	0.00	H
ATOM	3787	CA	SER	401	35.815	94.386	46.075	1.00	0.00	C
ATOM	3788	CB	SER	401	35.314	93.254	45.169	1.00	0.00	C
ATOM	3789	OG	SER	401	35.241	93.708	43.826	1.00	0.00	O
ATOM	3790	HG	SER	401	34.931	93.007	43.265	1.00	0.00	H
ATOM	3791	C	SER	401	37.127	94.849	45.546	1.00	0.00	C
ATOM	3792	O	SER	401	38.136	94.362	46.041	1.00	0.00	O
ATOM	3793	N	THR	402	37.135	95.803	44.572	1.00	0.00	N
ATOM	3794	HN	THR	402	36.246	96.222	44.299	1.00	0.00	H
ATOM	3795	CA	THR	402	38.336	96.253	43.905	1.00	0.00	C
ATOM	3796	CB	THR	402	38.117	96.972	42.597	1.00	0.00	C
ATOM	3797	OG1	THR	402	39.307	96.884	41.838	1.00	0.00	O
ATOM	3798	HG1	THR	402	39.169	97.337	41.014	1.00	0.00	H
ATOM	3799	CG2	THR	402	37.802	98.459	42.802	1.00	0.00	C
ATOM	3800	C	THR	402	39.259	97.053	44.778	1.00	0.00	C
ATOM	3801	O	THR	402	40.475	96.945	44.652	1.00	0.00	O
ATOM	3802	N	THR	403	38.744	97.923	45.658	1.00	0.00	N
ATOM	3803	HN	THR	403	37.739	98.089	45.710	1.00	0.00	H
ATOM	3804	CA	THR	403	39.658	98.613	46.525	1.00	0.00	C
ATOM	3805	CB	THR	403	38.952	99.566	47.439	1.00	0.00	C
ATOM	3806	OG1	THR	403	38.092	100.402	46.684	1.00	0.00	O
ATOM	3807	HG1	THR	403	37.440	99.869	46.245	1.00	0.00	H
ATOM	3808	CG2	THR	403	40.008	100.430	48.150	1.00	0.00	C
ATOM	3809	C	THR	403	40.237	97.538	47.394	1.00	0.00	C
ATOM	3810	O	THR	403	41.424	97.527	47.711	1.00	0.00	O
ATOM	3811	N	VAL	404	39.377	96.579	47.786	1.00	0.00	N
ATOM	3812	HN	VAL	404	38.404	96.643	47.486	1.00	0.00	H
ATOM	3813	CA	VAL	404	39.770	95.472	48.607	1.00	0.00	C
ATOM	3814	CB	VAL	404	38.637	94.532	48.899	1.00	0.00	C
ATOM	3815	CG1	VAL	404	39.187	93.313	49.660	1.00	0.00	C
ATOM	3816	CG2	VAL	404	37.548	95.303	49.664	1.00	0.00	C
ATOM	3817	C	VAL	404	40.773	94.738	47.810	1.00	0.00	C
ATOM	3818	O	VAL	404	41.579	93.976	48.346	1.00	0.00	O
ATOM	3819	N	GLN	405	40.647	94.891	46.482	1.00	0.00	N
ATOM	3820	HN	GLN	405	39.929	95.518	46.119	1.00	0.00	H
ATOM	3821	CA	GLN	405	41.487	94.202	45.572	1.00	0.00	C
ATOM	3822	CB	GLN	405	40.971	94.309	44.126	1.00	0.00	C
ATOM	3823	CG	GLN	405	41.557	93.272	43.175	1.00	0.00	C
ATOM	3824	CD	GLN	405	40.767	91.994	43.410	1.00	0.00	C
ATOM	3825	OE1	GLN	405	39.617	91.876	42.991	1.00	0.00	O
ATOM	3826	NE2	GLN	405	41.392	91.015	44.115	1.00	0.00	N
ATOM	3827	1HE2	GLN	405	42.346	91.113	44.463	1.00	0.00	H
ATOM	3828	2HE2	GLN	405	40.862	90.158	44.273	1.00	0.00	H
ATOM	3829	C	GLN	405	42.906	94.696	45.573	1.00	0.00	C
ATOM	3830	O	GLN	405	43.814	93.966	45.962	1.00	0.00	O
ATOM	3831	N	LEU	406	43.088	95.994	45.247	1.00	0.00	N
ATOM	3832	HN	LEU	406	42.234	96.534	45.105	1.00	0.00	H
ATOM	3833	CA	LEU	406	44.313	96.721	45.072	1.00	0.00	C
ATOM	3834	CB	LEU	406	44.005	98.137	44.535	1.00	0.00	C
ATOM	3835	CG	LEU	406	45.172	99.133	44.453	1.00	0.00	C
ATOM	3836	CD1	LEU	406	44.772	100.350	43.611	1.00	0.00	C
ATOM	3837	CD2	LEU	406	45.598	99.618	45.843	1.00	0.00	C
ATOM	3838	C	LEU	406	45.012	96.764	46.381	1.00	0.00	C
ATOM	3839	O	LEU	406	46.205	97.033	46.475	1.00	0.00	O
ATOM	3840	N	MET	407	44.260	96.501	47.450	1.00	0.00	N
ATOM	3841	HN	MET	407	43.267	96.307	47.318	1.00	0.00	H
ATOM	3842	CA	MET	407	44.795	96.481	48.774	1.00	0.00	C
ATOM	3843	CB	MET	407	43.711	96.185	49.824	1.00	0.00	C
ATOM	3844	CG	MET	407	43.951	96.815	51.202	1.00	0.00	C
ATOM	3845	SD	MET	407	45.425	96.289	52.126	1.00	0.00	S

ATOM	3846	CE	MET	407	46.580	97.416	51.293	1.00	0.00	C
ATOM	3847	C	MET	407	45.806	95.351	48.791	1.00	0.00	C
ATOM	3848	O	MET	407	46.540	95.146	49.755	1.00	0.00	O
ATOM	3849	N	GLN	408	45.656	94.433	47.823	1.00	0.00	N
ATOM	3850	HN	GLN	408	44.816	94.547	47.256	1.00	0.00	H
ATOM	3851	CA	GLN	408	46.484	93.313	47.451	1.00	0.00	C
ATOM	3852	CB	GLN	408	45.643	92.151	46.910	1.00	0.00	C
ATOM	3853	CG	GLN	408	44.695	91.578	47.966	1.00	0.00	C
ATOM	3854	CD	GLN	408	43.822	90.525	47.299	1.00	0.00	C
ATOM	3855	OE1	GLN	408	43.015	90.832	46.425	1.00	0.00	O
ATOM	3856	NE2	GLN	408	43.984	89.245	47.721	1.00	0.00	N
ATOM	3857	1HE2	GLN	408	43.399	88.539	47.274	1.00	0.00	H
ATOM	3858	2HE2	GLN	408	44.654	88.990	48.447	1.00	0.00	H
ATOM	3859	C	GLN	408	47.526	93.659	46.416	1.00	0.00	C
ATOM	3860	O	GLN	408	48.296	92.801	45.996	1.00	0.00	O
ATOM	3861	N	ARG	409	47.446	94.868	45.846	1.00	0.00	N
ATOM	3862	HN	ARG	409	46.731	95.490	46.224	1.00	0.00	H
ATOM	3863	CA	ARG	409	48.235	95.404	44.772	1.00	0.00	C
ATOM	3864	CB	ARG	409	49.756	95.485	44.971	1.00	0.00	C
ATOM	3865	CG	ARG	409	50.518	94.173	44.990	1.00	0.00	C
ATOM	3866	CD	ARG	409	51.981	94.423	44.638	1.00	0.00	C
ATOM	3867	NE	ARG	409	52.003	95.093	43.306	1.00	0.00	N
ATOM	3868	HE	ARG	409	51.369	94.790	42.567	1.00	0.00	H
ATOM	3869	CZ	ARG	409	52.879	96.114	43.086	1.00	0.00	C
ATOM	3870	NH1	ARG	409	53.669	96.550	44.106	1.00	0.00	N
ATOM	3871	1HH1	ARG	409	54.324	97.314	43.941	1.00	0.00	H
ATOM	3872	2HH1	ARG	409	53.599	96.112	45.025	1.00	0.00	H
ATOM	3873	NH2	ARG	409	52.972	96.699	41.858	1.00	0.00	N
ATOM	3874	1HH2	ARG	409	53.627	97.463	41.693	1.00	0.00	H
ATOM	3875	2HH2	ARG	409	52.380	96.372	41.094	1.00	0.00	H
ATOM	3876	C	ARG	409	47.935	94.583	43.594	1.00	0.00	C
ATOM	3877	O	ARG	409	48.719	94.488	42.649	1.00	0.00	O
ATOM	3878	N	LEU	410	46.704	94.049	43.617	1.00	0.00	N
ATOM	3879	HN	LEU	410	46.080	94.254	44.398	1.00	0.00	H
ATOM	3880	CA	LEU	410	46.262	93.207	42.573	1.00	0.00	C
ATOM	3881	CB	LEU	410	44.807	92.739	42.728	1.00	0.00	C
ATOM	3882	CG	LEU	410	44.479	91.509	41.856	1.00	0.00	C
ATOM	3883	CD1	LEU	410	44.617	91.795	40.354	1.00	0.00	C
ATOM	3884	CD2	LEU	410	45.310	90.296	42.310	1.00	0.00	C
ATOM	3885	C	LEU	410	46.386	94.056	41.344	1.00	0.00	C
ATOM	3886	O	LEU	410	46.819	93.567	40.311	1.00	0.00	O
ATOM	3887	N	TYR	411	46.061	95.364	41.436	1.00	0.00	N
ATOM	3888	HN	TYR	411	45.674	95.712	42.313	1.00	0.00	H
ATOM	3889	CA	TYR	411	46.239	96.286	40.344	1.00	0.00	C
ATOM	3890	CB	TYR	411	44.924	96.918	39.866	1.00	0.00	C
ATOM	3891	CG	TYR	411	44.051	95.885	39.259	1.00	0.00	C
ATOM	3892	CD1	TYR	411	43.578	94.836	40.011	1.00	0.00	C
ATOM	3893	CD2	TYR	411	43.668	96.004	37.944	1.00	0.00	C
ATOM	3894	CE1	TYR	411	42.758	93.895	39.443	1.00	0.00	C
ATOM	3895	CE2	TYR	411	42.847	95.065	37.372	1.00	0.00	C
ATOM	3896	CZ	TYR	411	42.395	94.009	38.124	1.00	0.00	C
ATOM	3897	OH	TYR	411	41.551	93.039	37.549	1.00	0.00	O
ATOM	3898	HH	TYR	411	41.238	92.308	38.069	1.00	0.00	H
ATOM	3899	C	TYR	411	46.980	97.441	40.902	1.00	0.00	C
ATOM	3900	O	TYR	411	46.708	97.841	42.031	1.00	0.00	O
ATOM	3901	N	ASP	412	47.933	98.013	40.139	1.00	0.00	N
ATOM	3902	HN	ASP	412	48.191	97.635	39.227	1.00	0.00	H
ATOM	3903	CA	ASP	412	48.565	99.183	40.680	1.00	0.00	C
ATOM	3904	CB	ASP	412	49.866	99.599	39.973	1.00	0.00	C
ATOM	3905	CG	ASP	412	50.971	98.654	40.416	1.00	0.00	C
ATOM	3906	OD1	ASP	412	50.641	97.536	40.893	1.00	0.00	O
ATOM	3907	OD2	ASP	412	52.160	99.050	40.290	1.00	0.00	O
ATOM	3908	C	ASP	412	47.588	100.317	40.572	1.00	0.00	C
ATOM	3909	O	ASP	412	46.755	100.331	39.670	1.00	0.00	O
ATOM	3910	N	PRO	413	47.633	101.268	41.475	1.00	0.00	N
ATOM	3911	CA	PRO	413	46.732	102.394	41.498	1.00	0.00	C
ATOM	3912	CD	PRO	413	48.639	101.332	42.522	1.00	0.00	C
ATOM	3913	CB	PRO	413	47.054	103.148	42.789	1.00	0.00	C
ATOM	3914	CG	PRO	413	48.515	102.758	43.090	1.00	0.00	C
ATOM	3915	C	PRO	413	46.910	103.253	40.292	1.00	0.00	C
ATOM	3916	O	PRO	413	48.048	103.555	39.936	1.00	0.00	O
ATOM	3917	N	THR	414	45.799	103.676	39.658	1.00	0.00	N
ATOM	3918	HN	THR	414	44.876	103.401	39.993	1.00	0.00	H
ATOM	3919	CA	THR	414	45.934	104.517	38.508	1.00	0.00	C

ATOM	3920	CB	THR	414	44.638	104.783	37.802	1.00	0.00	C
ATOM	3921	OG1	THR	414	44.054	103.563	37.370	1.00	0.00	O
ATOM	3922	HG1	THR	414	43.233	103.732	36.923	1.00	0.00	H
ATOM	3923	CG2	THR	414	44.931	105.679	36.587	1.00	0.00	C
ATOM	3924	C	THR	414	46.505	105.834	38.928	1.00	0.00	C
ATOM	3925	O	THR	414	47.448	106.332	38.316	1.00	0.00	O
ATOM	3926	N	GLU	415	45.956	106.437	40.000	1.00	0.00	N
ATOM	3927	HN	GLU	415	45.189	105.991	40.503	1.00	0.00	H
ATOM	3928	CA	GLU	415	46.458	107.710	40.429	1.00	0.00	C
ATOM	3929	CB	GLU	415	45.668	108.902	39.869	1.00	0.00	C
ATOM	3930	CG	GLU	415	45.874	109.078	38.368	1.00	0.00	C
ATOM	3931	CD	GLU	415	44.825	110.044	37.847	1.00	0.00	C
ATOM	3932	OE1	GLU	415	44.034	110.566	38.679	1.00	0.00	O
ATOM	3933	OE2	GLU	415	44.795	110.271	36.608	1.00	0.00	O
ATOM	3934	C	GLU	415	46.349	107.759	41.910	1.00	0.00	C
ATOM	3935	O	GLU	415	45.620	106.980	42.520	1.00	0.00	O
ATOM	3936	N	GLY	416	47.090	108.690	42.532	1.00	0.00	N
ATOM	3937	HN	GLY	416	47.682	109.326	41.998	1.00	0.00	H
ATOM	3938	CA	GLY	416	47.033	108.772	43.957	1.00	0.00	C
ATOM	3939	C	GLY	416	47.864	107.650	44.474	1.00	0.00	C
ATOM	3940	O	GLY	416	48.818	107.230	43.822	1.00	0.00	O
ATOM	3941	N	MET	417	47.542	107.134	45.675	1.00	0.00	N
ATOM	3942	HN	MET	417	46.742	107.482	46.204	1.00	0.00	H
ATOM	3943	CA	MET	417	48.367	106.077	46.181	1.00	0.00	C
ATOM	3944	CB	MET	417	49.674	106.564	46.839	1.00	0.00	C
ATOM	3945	CG	MET	417	50.723	107.196	45.931	1.00	0.00	C
ATOM	3946	SD	MET	417	51.811	106.021	45.074	1.00	0.00	S
ATOM	3947	CE	MET	417	53.035	107.292	44.646	1.00	0.00	C
ATOM	3948	C	MET	417	47.677	105.435	47.329	1.00	0.00	C
ATOM	3949	O	MET	417	46.636	105.887	47.803	1.00	0.00	O
ATOM	3950	N	VAL	418	48.286	104.334	47.800	1.00	0.00	N
ATOM	3951	HN	VAL	418	49.095	103.968	47.298	1.00	0.00	H
ATOM	3952	CA	VAL	418	47.843	103.656	48.977	1.00	0.00	C
ATOM	3953	CB	VAL	418	47.082	102.395	48.689	1.00	0.00	C
ATOM	3954	CG1	VAL	418	47.877	101.564	47.673	1.00	0.00	C
ATOM	3955	CG2	VAL	418	46.844	101.664	50.021	1.00	0.00	C
ATOM	3956	C	VAL	418	49.066	103.317	49.753	1.00	0.00	C
ATOM	3957	O	VAL	418	50.131	103.063	49.188	1.00	0.00	O
ATOM	3958	N	SER	419	48.933	103.327	51.089	1.00	0.00	N
ATOM	3959	HN	SER	419	48.019	103.520	51.499	1.00	0.00	H
ATOM	3960	CA	SER	419	50.047	103.072	51.949	1.00	0.00	C
ATOM	3961	CB	SER	419	50.453	104.341	52.724	1.00	0.00	C
ATOM	3962	OG	SER	419	51.342	104.040	53.788	1.00	0.00	O
ATOM	3963	HG	SER	419	51.592	104.822	54.266	1.00	0.00	H
ATOM	3964	C	SER	419	49.632	102.064	52.968	1.00	0.00	C
ATOM	3965	O	SER	419	48.539	102.141	53.525	1.00	0.00	O
ATOM	3966	N	VAL	420	50.506	101.068	53.208	1.00	0.00	N
ATOM	3967	HN	VAL	420	51.339	100.992	52.625	1.00	0.00	H
ATOM	3968	CA	VAL	420	50.304	100.114	54.254	1.00	0.00	C
ATOM	3969	CB	VAL	420	50.740	98.723	53.899	1.00	0.00	C
ATOM	3970	CG1	VAL	420	50.641	97.838	55.153	1.00	0.00	C
ATOM	3971	CG2	VAL	420	49.888	98.228	52.718	1.00	0.00	C
ATOM	3972	C	VAL	420	51.208	100.596	55.309	1.00	0.00	C
ATOM	3973	O	VAL	420	52.257	101.125	54.949	1.00	0.00	O
ATOM	3974	N	ASP	421	50.848	100.434	56.606	1.00	0.00	N
ATOM	3975	HN	ASP	421	49.998	99.934	56.866	1.00	0.00	H
ATOM	3976	CA	ASP	421	51.719	100.999	57.594	1.00	0.00	C
ATOM	3977	CB	ASP	421	53.147	100.416	57.490	1.00	0.00	C
ATOM	3978	CG	ASP	421	54.016	100.882	58.651	1.00	0.00	C
ATOM	3979	OD1	ASP	421	53.449	101.354	59.672	1.00	0.00	O
ATOM	3980	OD2	ASP	421	55.265	100.783	58.517	1.00	0.00	O
ATOM	3981	C	ASP	421	51.742	102.452	57.215	1.00	0.00	C
ATOM	3982	O	ASP	421	50.688	103.064	57.048	1.00	0.00	O
ATOM	3983	N	GLY	422	52.955	103.032	57.190	1.00	0.00	N
ATOM	3984	HN	GLY	422	53.700	102.484	57.621	1.00	0.00	H
ATOM	3985	CA	GLY	422	53.371	104.300	56.654	1.00	0.00	C
ATOM	3986	C	GLY	422	53.752	104.295	55.182	1.00	0.00	C
ATOM	3987	O	GLY	422	53.767	105.353	54.554	1.00	0.00	O
ATOM	3988	N	GLN	423	54.191	103.135	54.631	1.00	0.00	N
ATOM	3989	HN	GLN	423	54.081	102.279	55.174	1.00	0.00	H
ATOM	3990	CA	GLN	423	54.806	103.030	53.323	1.00	0.00	C
ATOM	3991	CB	GLN	423	55.796	101.860	53.215	1.00	0.00	C
ATOM	3992	CG	GLN	423	56.998	101.936	54.154	1.00	0.00	C
ATOM	3993	CD	GLN	423	57.830	100.689	53.883	1.00	0.00	C

ATOM	3994	OE1	GLN	423	57.333	99.706	53.336	1.00	0.00	O
ATOM	3995	NE2	GLN	423	59.135	100.727	54.265	1.00	0.00	N
ATOM	3996	1HE2	GLN	423	59.547	101.542	54.719	1.00	0.00	H
ATOM	3997	2HE2	GLN	423	59.692	99.892	54.084	1.00	0.00	H
ATOM	3998	C	GLN	423	53.808	102.773	52.239	1.00	0.00	C
ATOM	3999	O	GLN	423	52.698	102.302	52.469	1.00	0.00	O
ATOM	4000	N	ASP	424	54.229	103.076	50.993	1.00	0.00	N
ATOM	4001	HN	ASP	424	55.168	103.457	50.879	1.00	0.00	H
ATOM	4002	CA	ASP	424	53.427	102.891	49.824	1.00	0.00	C
ATOM	4003	CB	ASP	424	53.948	103.708	48.627	1.00	0.00	C
ATOM	4004	CG	ASP	424	53.215	103.261	47.373	1.00	0.00	C
ATOM	4005	OD1	ASP	424	53.644	102.235	46.781	1.00	0.00	O
ATOM	4006	OD2	ASP	424	52.216	103.928	46.996	1.00	0.00	O
ATOM	4007	C	ASP	424	53.468	101.442	49.459	1.00	0.00	C
ATOM	4008	O	ASP	424	54.527	100.826	49.371	1.00	0.00	O
ATOM	4009	N	ILE	425	52.291	100.865	49.187	1.00	0.00	N
ATOM	4010	HN	ILE	425	51.452	101.443	49.147	1.00	0.00	H
ATOM	4011	CA	ILE	425	52.180	99.451	48.950	1.00	0.00	C
ATOM	4012	CB	ILE	425	50.767	99.035	48.689	1.00	0.00	C
ATOM	4013	CG1	ILE	425	50.670	97.516	48.500	1.00	0.00	C
ATOM	4014	CG2	ILE	425	50.255	99.837	47.486	1.00	0.00	C
ATOM	4015	CD1	ILE	425	49.225	97.029	48.455	1.00	0.00	C
ATOM	4016	C	ILE	425	52.997	98.989	47.772	1.00	0.00	C
ATOM	4017	O	ILE	425	53.733	98.009	47.883	1.00	0.00	O
ATOM	4018	N	ARG	426	52.949	99.712	46.639	1.00	0.00	N
ATOM	4019	HN	ARG	426	52.476	100.616	46.658	1.00	0.00	H
ATOM	4020	CA	ARG	426	53.534	99.269	45.403	1.00	0.00	C
ATOM	4021	CB	ARG	426	53.364	100.305	44.288	1.00	0.00	C
ATOM	4022	CG	ARG	426	51.894	100.634	44.038	1.00	0.00	C
ATOM	4023	CD	ARG	426	51.657	101.424	42.755	1.00	0.00	C
ATOM	4024	NE	ARG	426	52.381	102.717	42.862	1.00	0.00	N
ATOM	4025	HE	ARG	426	52.718	103.049	43.766	1.00	0.00	H
ATOM	4026	CZ	ARG	426	52.588	103.452	41.733	1.00	0.00	C
ATOM	4027	NH1	ARG	426	52.150	102.981	40.529	1.00	0.00	N
ATOM	4028	1HH1	ARG	426	52.305	103.531	39.684	1.00	0.00	H
ATOM	4029	2HH1	ARG	426	51.673	102.081	40.473	1.00	0.00	H
ATOM	4030	NH2	ARG	426	53.226	104.655	41.808	1.00	0.00	N
ATOM	4031	1HH2	ARG	426	53.381	105.205	40.963	1.00	0.00	H
ATOM	4032	2HH2	ARG	426	53.553	105.007	42.708	1.00	0.00	H
ATOM	4033	C	ARG	426	54.996	99.041	45.599	1.00	0.00	C
ATOM	4034	O	ARG	426	55.590	98.149	44.990	1.00	0.00	O
ATOM	4035	N	THR	427	55.605	99.849	46.476	1.00	0.00	N
ATOM	4036	HN	THR	427	55.041	100.531	46.983	1.00	0.00	H
ATOM	4037	CA	THR	427	57.012	99.798	46.734	1.00	0.00	C
ATOM	4038	CB	THR	427	57.363	100.690	47.886	1.00	0.00	C
ATOM	4039	OG1	THR	427	56.989	102.029	47.618	1.00	0.00	O
ATOM	4040	HG1	THR	427	57.211	102.594	48.348	1.00	0.00	H
ATOM	4041	CG2	THR	427	58.863	100.603	48.149	1.00	0.00	C
ATOM	4042	C	THR	427	57.409	98.427	47.186	1.00	0.00	C
ATOM	4043	O	THR	427	58.430	97.896	46.758	1.00	0.00	O
ATOM	4044	N	ILE	428	56.602	97.829	48.074	1.00	0.00	N
ATOM	4045	HN	ILE	428	55.728	98.299	48.311	1.00	0.00	H
ATOM	4046	CA	ILE	428	56.881	96.572	48.716	1.00	0.00	C
ATOM	4047	CB	ILE	428	55.849	96.209	49.737	1.00	0.00	C
ATOM	4048	CG1	ILE	428	55.512	97.385	50.651	1.00	0.00	C
ATOM	4049	CG2	ILE	428	56.395	95.016	50.528	1.00	0.00	C
ATOM	4050	CD1	ILE	428	54.216	97.158	51.427	1.00	0.00	C
ATOM	4051	C	ILE	428	56.776	95.444	47.725	1.00	0.00	C
ATOM	4052	O	ILE	428	56.049	95.524	46.736	1.00	0.00	O
ATOM	4053	N	ASN	429	57.535	94.355	47.983	1.00	0.00	N
ATOM	4054	HN	ASN	429	58.168	94.395	48.782	1.00	0.00	H
ATOM	4055	CA	ASN	429	57.511	93.143	47.207	1.00	0.00	C
ATOM	4056	CB	ASN	429	58.593	92.145	47.650	1.00	0.00	C
ATOM	4057	CG	ASN	429	58.345	90.817	46.954	1.00	0.00	C
ATOM	4058	OD1	ASN	429	58.213	89.783	47.607	1.00	0.00	O
ATOM	4059	ND2	ASN	429	58.267	90.838	45.597	1.00	0.00	N
ATOM	4060	1HD2	ASN	429	58.101	89.947	45.130	1.00	0.00	H
ATOM	4061	2HD2	ASN	429	58.376	91.695	45.056	1.00	0.00	H
ATOM	4062	C	ASN	429	56.182	92.464	47.371	1.00	0.00	C
ATOM	4063	O	ASN	429	55.555	92.529	48.427	1.00	0.00	O
ATOM	4064	N	VAL	430	55.721	91.806	46.283	1.00	0.00	N
ATOM	4065	HN	VAL	430	56.328	91.754	45.465	1.00	0.00	H
ATOM	4066	CA	VAL	430	54.426	91.173	46.204	1.00	0.00	C
ATOM	4067	CB	VAL	430	54.105	90.688	44.818	1.00	0.00	C

ATOM	4068	CG1	VAL	430	52.721	90.016	44.847	1.00	0.00	C
ATOM	4069	CG2	VAL	430	54.219	91.865	43.834	1.00	0.00	C
ATOM	4070	C	VAL	430	54.254	89.992	47.114	1.00	0.00	C
ATOM	4071	O	VAL	430	53.415	90.038	48.013	1.00	0.00	O
ATOM	4072	N	ARG	431	55.113	88.956	46.975	1.00	0.00	N
ATOM	4073	HN	ARG	431	55.909	89.076	46.348	1.00	0.00	H
ATOM	4074	CA	ARG	431	54.974	87.694	47.657	1.00	0.00	C
ATOM	4075	CB	ARG	431	56.245	86.850	47.478	1.00	0.00	C
ATOM	4076	CG	ARG	431	56.386	85.678	48.445	1.00	0.00	C
ATOM	4077	CD	ARG	431	57.744	84.988	48.318	1.00	0.00	C
ATOM	4078	NE	ARG	431	57.764	84.324	46.988	1.00	0.00	N
ATOM	4079	HE	ARG	431	58.122	84.813	46.167	1.00	0.00	H
ATOM	4080	CZ	ARG	431	57.294	83.048	46.889	1.00	0.00	C
ATOM	4081	NH1	ARG	431	56.875	82.401	48.014	1.00	0.00	N
ATOM	4082	1HH1	ARG	431	56.915	82.865	48.922	1.00	0.00	H
ATOM	4083	2HH1	ARG	431	56.523	81.446	47.940	1.00	0.00	H
ATOM	4084	NH2	ARG	431	57.240	82.428	45.675	1.00	0.00	N
ATOM	4085	1HH2	ARG	431	57.553	82.912	44.834	1.00	0.00	H
ATOM	4086	2HH2	ARG	431	56.888	81.473	45.601	1.00	0.00	H
ATOM	4087	C	ARG	431	54.855	88.017	49.117	1.00	0.00	C
ATOM	4088	O	ARG	431	54.049	87.426	49.839	1.00	0.00	O
ATOM	4089	N	PHE	432	55.660	88.997	49.566	1.00	0.00	N
ATOM	4090	HN	PHE	432	56.293	89.440	48.900	1.00	0.00	H
ATOM	4091	CA	PHE	432	55.681	89.457	50.928	1.00	0.00	C
ATOM	4092	CB	PHE	432	56.819	90.484	51.105	1.00	0.00	C
ATOM	4093	CG	PHE	432	57.083	90.789	52.540	1.00	0.00	C
ATOM	4094	CD1	PHE	432	56.417	91.802	53.190	1.00	0.00	C
ATOM	4095	CD2	PHE	432	58.022	90.060	53.234	1.00	0.00	C
ATOM	4096	CE1	PHE	432	56.680	92.078	54.512	1.00	0.00	C
ATOM	4097	CE2	PHE	432	58.289	90.330	54.555	1.00	0.00	C
ATOM	4098	CZ	PHE	432	57.617	91.341	55.198	1.00	0.00	C
ATOM	4099	C	PHE	432	54.374	90.115	51.296	1.00	0.00	C
ATOM	4100	O	PHE	432	53.752	89.769	52.303	1.00	0.00	O
ATOM	4101	N	LEU	433	53.904	91.062	50.456	1.00	0.00	N
ATOM	4102	HN	LEU	433	54.392	91.236	49.577	1.00	0.00	H
ATOM	4103	CA	LEU	433	52.728	91.833	50.773	1.00	0.00	C
ATOM	4104	CB	LEU	433	52.435	92.869	49.669	1.00	0.00	C
ATOM	4105	CG	LEU	433	51.234	93.797	49.924	1.00	0.00	C
ATOM	4106	CD1	LEU	433	49.892	93.066	49.824	1.00	0.00	C
ATOM	4107	CD2	LEU	433	51.395	94.542	51.251	1.00	0.00	C
ATOM	4108	C	LEU	433	51.578	90.898	50.896	1.00	0.00	C
ATOM	4109	O	LEU	433	50.882	90.863	51.911	1.00	0.00	O
ATOM	4110	N	ARG	434	51.434	90.025	49.894	1.00	0.00	N
ATOM	4111	HN	ARG	434	52.133	89.998	49.152	1.00	0.00	H
ATOM	4112	CA	ARG	434	50.325	89.130	49.839	1.00	0.00	C
ATOM	4113	CB	ARG	434	50.420	88.164	48.651	1.00	0.00	C
ATOM	4114	CG	ARG	434	50.360	88.889	47.311	1.00	0.00	C
ATOM	4115	CD	ARG	434	48.933	89.188	46.856	1.00	0.00	C
ATOM	4116	NE	ARG	434	49.022	90.137	45.713	1.00	0.00	N
ATOM	4117	HE	ARG	434	48.914	91.139	45.870	1.00	0.00	H
ATOM	4118	CZ	ARG	434	49.249	89.663	44.454	1.00	0.00	C
ATOM	4119	NH1	ARG	434	49.441	88.326	44.259	1.00	0.00	N
ATOM	4120	1HH1	ARG	434	49.417	87.682	45.050	1.00	0.00	H
ATOM	4121	2HH1	ARG	434	49.611	87.972	43.318	1.00	0.00	H
ATOM	4122	NH2	ARG	434	49.281	90.524	43.396	1.00	0.00	N
ATOM	4123	1HH2	ARG	434	49.137	91.523	43.542	1.00	0.00	H
ATOM	4124	2HH2	ARG	434	49.451	90.170	42.455	1.00	0.00	H
ATOM	4125	C	ARG	434	50.331	88.309	51.092	1.00	0.00	C
ATOM	4126	O	ARG	434	49.276	87.937	51.599	1.00	0.00	O
ATOM	4127	N	GLU	435	51.521	87.965	51.616	1.00	0.00	N
ATOM	4128	HN	GLU	435	52.386	88.255	51.160	1.00	0.00	H
ATOM	4129	CA	GLU	435	51.567	87.185	52.824	1.00	0.00	C
ATOM	4130	CB	GLU	435	53.005	86.780	53.187	1.00	0.00	C
ATOM	4131	CG	GLU	435	53.640	85.840	52.159	1.00	0.00	C
ATOM	4132	CD	GLU	435	55.074	85.566	52.588	1.00	0.00	C
ATOM	4133	OE1	GLU	435	55.262	84.812	53.580	1.00	0.00	O
ATOM	4134	OE2	GLU	435	55.999	86.112	51.932	1.00	0.00	O
ATOM	4135	C	GLU	435	51.014	87.986	53.980	1.00	0.00	C
ATOM	4136	O	GLU	435	50.209	87.502	54.774	1.00	0.00	O
ATOM	4137	N	ILE	436	51.410	89.266	54.058	1.00	0.00	N
ATOM	4138	HN	ILE	436	51.989	89.604	53.289	1.00	0.00	H
ATOM	4139	CA	ILE	436	51.116	90.219	55.097	1.00	0.00	C
ATOM	4140	CB	ILE	436	51.837	91.518	54.864	1.00	0.00	C
ATOM	4141	CG1	ILE	436	53.351	91.251	54.791	1.00	0.00	C



ATOM	4142	CG2	ILE	436	51.449	92.518	55.968	1.00	0.00	C
ATOM	4143	CD1	ILE	436	53.923	90.604	56.052	1.00	0.00	C
ATOM	4144	C	ILE	436	49.647	90.485	55.168	1.00	0.00	C
ATOM	4145	O	ILE	436	49.163	91.023	56.163	1.00	0.00	O
ATOM	4146	N	ILE	437	48.907	90.255	54.069	1.00	0.00	N
ATOM	4147	HN	ILE	437	49.320	89.876	53.217	1.00	0.00	H
ATOM	4148	CA	ILE	437	47.511	90.568	54.151	1.00	0.00	C
ATOM	4149	CB	ILE	437	47.063	91.523	53.079	1.00	0.00	C
ATOM	4150	CG1	ILE	437	47.751	92.895	53.233	1.00	0.00	C
ATOM	4151	CG2	ILE	437	45.530	91.611	53.144	1.00	0.00	C
ATOM	4152	CD1	ILE	437	49.236	92.915	52.874	1.00	0.00	C
ATOM	4153	C	ILE	437	46.661	89.330	54.058	1.00	0.00	C
ATOM	4154	O	ILE	437	46.465	88.768	52.984	1.00	0.00	O
ATOM	4155	N	GLY	438	46.082	88.904	55.199	1.00	0.00	N
ATOM	4156	HN	GLY	438	46.246	89.430	56.057	1.00	0.00	H
ATOM	4157	CA	GLY	438	45.243	87.739	55.255	1.00	0.00	C
ATOM	4158	C	GLY	438	43.975	88.085	54.551	1.00	0.00	C
ATOM	4159	O	GLY	438	43.463	89.190	54.719	1.00	0.00	O
ATOM	4160	N	VAL	439	43.426	87.146	53.747	1.00	0.00	N
ATOM	4161	HN	VAL	439	43.862	86.229	53.647	1.00	0.00	H
ATOM	4162	CA	VAL	439	42.216	87.462	53.035	1.00	0.00	C
ATOM	4163	CB	VAL	439	42.465	87.896	51.616	1.00	0.00	C
ATOM	4164	CG1	VAL	439	41.115	88.110	50.909	1.00	0.00	C
ATOM	4165	CG2	VAL	439	43.366	89.142	51.630	1.00	0.00	C
ATOM	4166	C	VAL	439	41.296	86.270	52.966	1.00	0.00	C
ATOM	4167	O	VAL	439	41.720	85.137	52.749	1.00	0.00	O
ATOM	4168	N	VAL	440	39.980	86.497	53.152	1.00	0.00	N
ATOM	4169	HN	VAL	440	39.648	87.436	53.373	1.00	0.00	H
ATOM	4170	CA	VAL	440	39.045	85.407	53.037	1.00	0.00	C
ATOM	4171	CB	VAL	440	38.567	84.901	54.362	1.00	0.00	C
ATOM	4172	CG1	VAL	440	37.490	83.841	54.105	1.00	0.00	C
ATOM	4173	CG2	VAL	440	39.778	84.379	55.155	1.00	0.00	C
ATOM	4174	C	VAL	440	37.854	85.884	52.266	1.00	0.00	C
ATOM	4175	O	VAL	440	37.079	86.702	52.755	1.00	0.00	O
ATOM	4176	N	SER	441	37.673	85.362	51.036	1.00	0.00	N
ATOM	4177	HN	SER	441	38.347	84.678	50.693	1.00	0.00	H
ATOM	4178	CA	SER	441	36.571	85.728	50.186	1.00	0.00	C
ATOM	4179	CB	SER	441	36.998	85.885	48.720	1.00	0.00	C
ATOM	4180	OG	SER	441	37.626	84.692	48.277	1.00	0.00	O
ATOM	4181	HG	SER	441	37.890	84.789	47.370	1.00	0.00	H
ATOM	4182	C	SER	441	35.500	84.669	50.277	1.00	0.00	C
ATOM	4183	O	SER	441	35.579	83.764	51.108	1.00	0.00	O
ATOM	4184	N	GLN	442	34.459	84.777	49.414	1.00	0.00	N
ATOM	4185	HN	GLN	442	34.524	85.450	48.650	1.00	0.00	H
ATOM	4186	CA	GLN	442	33.264	83.978	49.533	1.00	0.00	C
ATOM	4187	CB	GLN	442	32.244	84.288	48.429	1.00	0.00	C
ATOM	4188	CG	GLN	442	32.079	85.770	48.132	1.00	0.00	C
ATOM	4189	CD	GLN	442	33.124	86.106	47.074	1.00	0.00	C
ATOM	4190	OE1	GLN	442	34.107	85.388	46.895	1.00	0.00	O
ATOM	4191	NE2	GLN	442	32.895	87.223	46.335	1.00	0.00	N
ATOM	4192	1HE2	GLN	442	32.080	87.818	46.483	1.00	0.00	H
ATOM	4193	2HE2	GLN	442	33.594	87.448	45.627	1.00	0.00	H
ATOM	4194	C	GLN	442	33.448	82.505	49.385	1.00	0.00	C
ATOM	4195	O	GLN	442	33.536	81.794	50.383	1.00	0.00	O
ATOM	4196	N	GLU	443	33.643	82.017	48.141	1.00	0.00	N
ATOM	4197	HN	GLU	443	33.818	82.632	47.346	1.00	0.00	H
ATOM	4198	CA	GLU	443	33.592	80.595	47.992	1.00	0.00	C
ATOM	4199	CB	GLU	443	33.627	80.143	46.518	1.00	0.00	C
ATOM	4200	CG	GLU	443	33.233	78.679	46.300	1.00	0.00	C
ATOM	4201	CD	GLU	443	34.453	77.795	46.498	1.00	0.00	C
ATOM	4202	OE1	GLU	443	35.562	78.361	46.674	1.00	0.00	O
ATOM	4203	OE2	GLU	443	34.295	76.545	46.469	1.00	0.00	O
ATOM	4204	C	GLU	443	34.797	80.068	48.685	1.00	0.00	C
ATOM	4205	O	GLU	443	35.918	80.311	48.254	1.00	0.00	O
ATOM	4206	N	PRO	444	34.604	79.419	49.799	1.00	0.00	N
ATOM	4207	CA	PRO	444	35.682	78.857	50.548	1.00	0.00	C
ATOM	4208	CD	PRO	444	33.300	78.987	50.278	1.00	0.00	C
ATOM	4209	CB	PRO	444	35.048	78.360	51.843	1.00	0.00	C
ATOM	4210	CG	PRO	444	33.615	77.988	51.407	1.00	0.00	C
ATOM	4211	C	PRO	444	36.124	77.728	49.708	1.00	0.00	C
ATOM	4212	O	PRO	444	35.319	76.825	49.480	1.00	0.00	O
ATOM	4213	N	VAL	445	37.389	77.697	49.281	1.00	0.00	N
ATOM	4214	HN	VAL	445	38.078	78.411	49.517	1.00	0.00	H
ATOM	4215	CA	VAL	445	37.680	76.578	48.470	1.00	0.00	C

ATOM	4216	CB	VAL	445	38.190	76.941	47.107	1.00	0.00	C
ATOM	4217	CG1	VAL	445	39.487	77.754	47.264	1.00	0.00	C
ATOM	4218	CG2	VAL	445	38.359	75.646	46.294	1.00	0.00	C
ATOM	4219	C	VAL	445	38.711	75.762	49.135	1.00	0.00	C
ATOM	4220	O	VAL	445	39.709	76.275	49.640	1.00	0.00	O
ATOM	4221	N	LEU	446	38.466	74.445	49.149	1.00	0.00	N
ATOM	4222	HN	LEU	446	37.613	74.081	48.725	1.00	0.00	H
ATOM	4223	CA	LEU	446	39.393	73.555	49.754	1.00	0.00	C
ATOM	4224	CB	LEU	446	38.802	72.733	50.910	1.00	0.00	C
ATOM	4225	CG	LEU	446	38.377	73.608	52.102	1.00	0.00	C
ATOM	4226	CD1	LEU	446	37.872	72.756	53.276	1.00	0.00	C
ATOM	4227	CD2	LEU	446	39.503	74.572	52.502	1.00	0.00	C
ATOM	4228	C	LEU	446	39.794	72.617	48.678	1.00	0.00	C
ATOM	4229	O	LEU	446	38.961	72.007	48.007	1.00	0.00	O
ATOM	4230	N	PHE	447	41.111	72.497	48.495	1.00	0.00	N
ATOM	4231	HN	PHE	447	41.739	73.021	49.105	1.00	0.00	H
ATOM	4232	CA	PHE	447	41.673	71.672	47.488	1.00	0.00	C
ATOM	4233	CB	PHE	447	43.202	71.787	47.476	1.00	0.00	C
ATOM	4234	CG	PHE	447	43.523	73.240	47.607	1.00	0.00	C
ATOM	4235	CD1	PHE	447	43.596	73.800	48.863	1.00	0.00	C
ATOM	4236	CD2	PHE	447	43.747	74.044	46.514	1.00	0.00	C
ATOM	4237	CE1	PHE	447	43.891	75.131	49.033	1.00	0.00	C
ATOM	4238	CE2	PHE	447	44.043	75.378	46.678	1.00	0.00	C
ATOM	4239	CZ	PHE	447	44.116	75.926	47.936	1.00	0.00	C
ATOM	4240	C	PHE	447	41.346	70.270	47.887	1.00	0.00	C
ATOM	4241	O	PHE	447	41.099	69.996	49.058	1.00	0.00	O
ATOM	4242	N	ALA	448	41.295	69.327	46.931	1.00	0.00	N
ATOM	4243	HN	ALA	448	41.481	69.536	45.950	1.00	0.00	H
ATOM	4244	CA	ALA	448	40.962	68.008	47.383	1.00	0.00	C
ATOM	4245	CB	ALA	448	40.535	67.065	46.243	1.00	0.00	C
ATOM	4246	C	ALA	448	42.189	67.450	48.013	1.00	0.00	C
ATOM	4247	O	ALA	448	43.165	67.128	47.335	1.00	0.00	O
ATOM	4248	N	THR	449	42.163	67.339	49.355	1.00	0.00	N
ATOM	4249	HN	THR	449	41.333	67.613	49.881	1.00	0.00	H
ATOM	4250	CA	THR	449	43.313	66.833	50.029	1.00	0.00	C
ATOM	4251	CB	THR	449	44.487	67.757	49.874	1.00	0.00	C
ATOM	4252	OG1	THR	449	45.692	67.085	50.181	1.00	0.00	O
ATOM	4253	HG1	THR	449	45.807	66.334	49.610	1.00	0.00	H
ATOM	4254	CG2	THR	449	44.301	68.970	50.796	1.00	0.00	C
ATOM	4255	C	THR	449	42.957	66.686	51.477	1.00	0.00	C
ATOM	4256	O	THR	449	41.784	66.723	51.845	1.00	0.00	O
ATOM	4257	N	THR	450	43.970	66.495	52.343	1.00	0.00	N
ATOM	4258	HN	THR	450	44.928	66.459	51.996	1.00	0.00	H
ATOM	4259	CA	THR	450	43.720	66.341	53.748	1.00	0.00	C
ATOM	4260	CB	THR	450	44.903	65.799	54.494	1.00	0.00	C
ATOM	4261	OG1	THR	450	46.002	66.690	54.372	1.00	0.00	O
ATOM	4262	HG1	THR	450	46.751	66.347	54.844	1.00	0.00	H
ATOM	4263	CG2	THR	450	45.278	64.429	53.904	1.00	0.00	C
ATOM	4264	C	THR	450	43.431	67.700	54.301	1.00	0.00	C
ATOM	4265	O	THR	450	43.760	68.717	53.694	1.00	0.00	O
ATOM	4266	N	ILE	451	42.784	67.750	55.480	1.00	0.00	N
ATOM	4267	HN	ILE	451	42.502	66.886	55.943	1.00	0.00	H
ATOM	4268	CA	ILE	451	42.491	69.014	56.086	1.00	0.00	C
ATOM	4269	CB	ILE	451	41.796	68.870	57.413	1.00	0.00	C
ATOM	4270	CG1	ILE	451	40.416	68.208	57.243	1.00	0.00	C
ATOM	4271	CG2	ILE	451	41.733	70.253	58.080	1.00	0.00	C
ATOM	4272	CD1	ILE	451	39.432	69.020	56.401	1.00	0.00	C
ATOM	4273	C	ILE	451	43.815	69.650	56.350	1.00	0.00	C
ATOM	4274	O	ILE	451	44.048	70.810	56.013	1.00	0.00	O
ATOM	4275	N	ALA	452	44.753	68.857	56.897	1.00	0.00	N
ATOM	4276	HN	ALA	452	44.557	67.867	57.044	1.00	0.00	H
ATOM	4277	CA	ALA	452	46.025	69.394	57.275	1.00	0.00	C
ATOM	4278	CB	ALA	452	46.988	68.320	57.807	1.00	0.00	C
ATOM	4279	C	ALA	452	46.676	70.013	56.075	1.00	0.00	C
ATOM	4280	O	ALA	452	47.115	71.160	56.128	1.00	0.00	O
ATOM	4281	N	GLU	453	46.675	69.311	54.931	1.00	0.00	N
ATOM	4282	HN	GLU	453	46.182	68.419	54.888	1.00	0.00	H
ATOM	4283	CA	GLU	453	47.358	69.799	53.769	1.00	0.00	C
ATOM	4284	CB	GLU	453	47.195	68.893	52.539	1.00	0.00	C
ATOM	4285	CG	GLU	453	48.101	67.668	52.580	1.00	0.00	C
ATOM	4286	CD	GLU	453	49.510	68.183	52.344	1.00	0.00	C
ATOM	4287	OE1	GLU	453	49.703	68.933	51.349	1.00	0.00	O
ATOM	4288	OE2	GLU	453	50.407	67.846	53.161	1.00	0.00	O
ATOM	4289	C	GLU	453	46.813	71.136	53.386	1.00	0.00	C

ATOM	4290	O	GLU	453	47.564	72.001	52.942	1.00	0.00	O
ATOM	4291	N	ASN	454	45.494	71.347	53.523	1.00	0.00	N
ATOM	4292	HN	ASN	454	44.896	70.615	53.907	1.00	0.00	H
ATOM	4293	CA	ASN	454	44.927	72.606	53.127	1.00	0.00	C
ATOM	4294	CB	ASN	454	43.408	72.678	53.358	1.00	0.00	C
ATOM	4295	CG	ASN	454	42.719	71.764	52.356	1.00	0.00	C
ATOM	4296	OD1	ASN	454	42.823	71.954	51.145	1.00	0.00	O
ATOM	4297	ND2	ASN	454	41.995	70.738	52.876	1.00	0.00	N
ATOM	4298	1HD2	ASN	454	41.533	70.125	52.204	1.00	0.00	H
ATOM	4299	2HD2	ASN	454	41.909	70.580	53.880	1.00	0.00	H
ATOM	4300	C	ASN	454	45.532	73.692	53.954	1.00	0.00	C
ATOM	4301	O	ASN	454	45.999	74.706	53.440	1.00	0.00	O
ATOM	4302	N	ILE	455	45.580	73.486	55.274	1.00	0.00	N
ATOM	4303	HN	ILE	455	45.225	72.615	55.667	1.00	0.00	H
ATOM	4304	CA	ILE	455	46.129	74.487	56.134	1.00	0.00	C
ATOM	4305	CB	ILE	455	46.042	74.088	57.571	1.00	0.00	C
ATOM	4306	CG1	ILE	455	44.547	74.036	57.930	1.00	0.00	C
ATOM	4307	CG2	ILE	455	46.868	75.065	58.424	1.00	0.00	C
ATOM	4308	CD1	ILE	455	44.228	73.292	59.217	1.00	0.00	C
ATOM	4309	C	ILE	455	47.549	74.670	55.704	1.00	0.00	C
ATOM	4310	O	ILE	455	48.067	75.785	55.673	1.00	0.00	O
ATOM	4311	N	ARG	456	48.200	73.561	55.318	1.00	0.00	N
ATOM	4312	HN	ARG	456	47.707	72.668	55.342	1.00	0.00	H
ATOM	4313	CA	ARG	456	49.560	73.585	54.874	1.00	0.00	C
ATOM	4314	CB	ARG	456	50.118	72.201	54.515	1.00	0.00	C
ATOM	4315	CG	ARG	456	51.574	72.265	54.054	1.00	0.00	C
ATOM	4316	CD	ARG	456	52.169	70.902	53.704	1.00	0.00	C
ATOM	4317	NE	ARG	456	52.091	70.071	54.936	1.00	0.00	N
ATOM	4318	HE	ARG	456	51.588	70.418	55.753	1.00	0.00	H
ATOM	4319	CZ	ARG	456	52.692	68.845	54.976	1.00	0.00	C
ATOM	4320	NH1	ARG	456	53.398	68.395	53.900	1.00	0.00	N
ATOM	4321	1HH1	ARG	456	53.847	67.480	53.930	1.00	0.00	H
ATOM	4322	2HH1	ARG	456	53.484	68.973	53.064	1.00	0.00	H
ATOM	4323	NH2	ARG	456	52.577	68.072	56.094	1.00	0.00	N
ATOM	4324	1HH2	ARG	456	53.026	67.157	56.124	1.00	0.00	H
ATOM	4325	2HH2	ARG	456	52.049	68.409	56.899	1.00	0.00	H
ATOM	4326	C	ARG	456	49.651	74.432	53.641	1.00	0.00	C
ATOM	4327	O	ARG	456	50.672	75.064	53.408	1.00	0.00	O
ATOM	4328	N	TYR	457	48.609	74.465	52.796	1.00	0.00	N
ATOM	4329	HN	TYR	457	47.786	73.889	52.974	1.00	0.00	H
ATOM	4330	CA	TYR	457	48.660	75.316	51.640	1.00	0.00	C
ATOM	4331	CB	TYR	457	47.340	75.384	50.852	1.00	0.00	C
ATOM	4332	CG	TYR	457	47.213	74.233	49.917	1.00	0.00	C
ATOM	4333	CD1	TYR	457	47.720	74.372	48.651	1.00	0.00	C
ATOM	4334	CD2	TYR	457	46.605	73.047	50.256	1.00	0.00	C
ATOM	4335	CE1	TYR	457	47.635	73.365	47.724	1.00	0.00	C
ATOM	4336	CE2	TYR	457	46.514	72.029	49.330	1.00	0.00	C
ATOM	4337	CZ	TYR	457	47.028	72.185	48.063	1.00	0.00	C
ATOM	4338	OH	TYR	457	46.937	71.150	47.110	1.00	0.00	O
ATOM	4339	HH	TYR	457	46.516	70.332	47.345	1.00	0.00	H
ATOM	4340	C	TYR	457	48.879	76.695	52.153	1.00	0.00	C
ATOM	4341	O	TYR	457	49.606	77.489	51.556	1.00	0.00	O
ATOM	4342	N	GLY	458	48.258	76.995	53.304	1.00	0.00	N
ATOM	4343	HN	GLY	458	47.706	76.284	53.783	1.00	0.00	H
ATOM	4344	CA	GLY	458	48.366	78.305	53.862	1.00	0.00	C
ATOM	4345	C	GLY	458	49.820	78.582	54.061	1.00	0.00	C
ATOM	4346	O	GLY	458	50.294	79.678	53.764	1.00	0.00	O
ATOM	4347	N	ARG	459	50.575	77.599	54.582	1.00	0.00	N
ATOM	4348	HN	ARG	459	50.157	76.717	54.877	1.00	0.00	H
ATOM	4349	CA	ARG	459	51.984	77.828	54.710	1.00	0.00	C
ATOM	4350	CB	ARG	459	52.375	78.414	56.080	1.00	0.00	C
ATOM	4351	CG	ARG	459	53.822	78.899	56.176	1.00	0.00	C
ATOM	4352	CD	ARG	459	54.121	79.623	57.491	1.00	0.00	C
ATOM	4353	NE	ARG	459	53.957	78.629	58.589	1.00	0.00	N
ATOM	4354	HE	ARG	459	53.758	77.654	58.364	1.00	0.00	H
ATOM	4355	CZ	ARG	459	54.071	79.015	59.894	1.00	0.00	C
ATOM	4356	NH1	ARG	459	54.327	80.323	60.193	1.00	0.00	N
ATOM	4357	1HH1	ARG	459	54.412	80.611	61.168	1.00	0.00	H
ATOM	4358	2HH1	ARG	459	54.437	81.006	59.444	1.00	0.00	H
ATOM	4359	NH2	ARG	459	53.924	78.101	60.896	1.00	0.00	N
ATOM	4360	1HH2	ARG	459	54.009	78.389	61.871	1.00	0.00	H
ATOM	4361	2HH2	ARG	459	53.733	77.124	60.673	1.00	0.00	H
ATOM	4362	C	ARG	459	52.665	76.511	54.527	1.00	0.00	C
ATOM	4363	O	ARG	459	52.366	75.575	55.270	1.00	0.00	O

ATOM	4364	N	GLU	460	53.596	76.405	53.543	1.00	0.00	N
ATOM	4365	HN	GLU	460	53.905	77.238	53.042	1.00	0.00	H
ATOM	4366	CA	GLU	460	54.148	75.114	53.205	1.00	0.00	C
ATOM	4367	CB	GLU	460	55.323	75.171	52.210	1.00	0.00	C
ATOM	4368	CG	GLU	460	54.980	75.768	50.846	1.00	0.00	C
ATOM	4369	CD	GLU	460	55.143	77.278	50.961	1.00	0.00	C
ATOM	4370	OE1	GLU	460	55.443	77.756	52.088	1.00	0.00	O
ATOM	4371	OE2	GLU	460	54.971	77.973	49.924	1.00	0.00	O
ATOM	4372	C	GLU	460	54.737	74.498	54.453	1.00	0.00	C
ATOM	4373	O	GLU	460	54.228	73.491	54.945	1.00	0.00	O
ATOM	4374	N	ASN	461	55.769	75.125	55.062	1.00	0.00	N
ATOM	4375	HN	ASN	461	56.132	76.011	54.710	1.00	0.00	H
ATOM	4376	CA	ASN	461	56.334	74.496	56.224	1.00	0.00	C
ATOM	4377	CB	ASN	461	57.796	74.872	56.522	1.00	0.00	C
ATOM	4378	CG	ASN	461	58.314	73.906	57.585	1.00	0.00	C
ATOM	4379	OD1	ASN	461	57.794	72.804	57.748	1.00	0.00	O
ATOM	4380	ND2	ASN	461	59.366	74.331	58.335	1.00	0.00	N
ATOM	4381	1HD2	ASN	461	59.797	75.245	58.200	1.00	0.00	H
ATOM	4382	2HD2	ASN	461	59.712	73.686	59.045	1.00	0.00	H
ATOM	4383	C	ASN	461	55.532	74.907	57.418	1.00	0.00	C
ATOM	4384	O	ASN	461	55.207	76.081	57.586	1.00	0.00	O
ATOM	4385	N	VAL	462	55.174	73.935	58.281	1.00	0.00	N
ATOM	4386	HN	VAL	462	55.435	72.966	58.097	1.00	0.00	H
ATOM	4387	CA	VAL	462	54.425	74.268	59.459	1.00	0.00	C
ATOM	4388	CB	VAL	462	53.128	74.950	59.141	1.00	0.00	C
ATOM	4389	CG1	VAL	462	52.322	74.040	58.195	1.00	0.00	C
ATOM	4390	CG2	VAL	462	52.412	75.287	60.460	1.00	0.00	C
ATOM	4391	C	VAL	462	54.112	72.992	60.180	1.00	0.00	C
ATOM	4392	O	VAL	462	53.831	71.974	59.550	1.00	0.00	O
ATOM	4393	N	THR	463	54.121	73.029	61.529	1.00	0.00	N
ATOM	4394	HN	THR	463	54.292	73.917	62.001	1.00	0.00	H
ATOM	4395	CA	THR	463	53.895	71.848	62.318	1.00	0.00	C
ATOM	4396	CB	THR	463	54.596	71.890	63.649	1.00	0.00	C
ATOM	4397	OG1	THR	463	55.993	72.055	63.465	1.00	0.00	O
ATOM	4398	HG1	THR	463	56.164	72.864	62.997	1.00	0.00	H
ATOM	4399	CG2	THR	463	54.319	70.580	64.406	1.00	0.00	C
ATOM	4400	C	THR	463	52.432	71.706	62.600	1.00	0.00	C
ATOM	4401	O	THR	463	51.710	72.686	62.756	1.00	0.00	O
ATOM	4402	N	MET	464	51.983	70.449	62.741	1.00	0.00	N
ATOM	4403	HN	MET	464	52.666	69.694	62.680	1.00	0.00	H
ATOM	4404	CA	MET	464	50.616	70.089	62.971	1.00	0.00	C
ATOM	4405	CB	MET	464	50.429	68.567	63.074	1.00	0.00	C
ATOM	4406	CG	MET	464	49.051	68.068	62.632	1.00	0.00	C
ATOM	4407	SD	MET	464	47.611	68.690	63.554	1.00	0.00	S
ATOM	4408	CE	MET	464	47.882	67.702	65.053	1.00	0.00	C
ATOM	4409	C	MET	464	50.262	70.679	64.287	1.00	0.00	C
ATOM	4410	O	MET	464	49.099	70.936	64.571	1.00	0.00	O
ATOM	4411	N	ASP	465	51.254	70.849	65.169	1.00	0.00	N
ATOM	4412	HN	ASP	465	52.208	70.560	64.955	1.00	0.00	H
ATOM	4413	CA	ASP	465	50.926	71.451	66.422	1.00	0.00	C
ATOM	4414	CB	ASP	465	52.137	71.578	67.356	1.00	0.00	C
ATOM	4415	CG	ASP	465	51.624	71.878	68.755	1.00	0.00	C
ATOM	4416	OD1	ASP	465	50.635	72.647	68.881	1.00	0.00	O
ATOM	4417	OD2	ASP	465	52.214	71.325	69.721	1.00	0.00	O
ATOM	4418	C	ASP	465	50.428	72.831	66.116	1.00	0.00	C
ATOM	4419	O	ASP	465	49.472	73.309	66.724	1.00	0.00	O
ATOM	4420	N	GLU	466	51.075	73.507	65.147	1.00	0.00	N
ATOM	4421	HN	GLU	466	51.852	73.054	64.665	1.00	0.00	H
ATOM	4422	CA	GLU	466	50.709	74.842	64.770	1.00	0.00	C
ATOM	4423	CB	GLU	466	51.537	75.371	63.586	1.00	0.00	C
ATOM	4424	CG	GLU	466	53.042	75.123	63.681	1.00	0.00	C
ATOM	4425	CD	GLU	466	53.515	75.485	65.070	1.00	0.00	C
ATOM	4426	OE1	GLU	466	53.572	76.705	65.377	1.00	0.00	O
ATOM	4427	OE2	GLU	466	53.827	74.539	65.840	1.00	0.00	O
ATOM	4428	C	GLU	466	49.320	74.780	64.222	1.00	0.00	C
ATOM	4429	O	GLU	466	48.450	75.572	64.579	1.00	0.00	O
ATOM	4430	N	ILE	467	49.079	73.793	63.342	1.00	0.00	N
ATOM	4431	HN	ILE	467	49.822	73.125	63.134	1.00	0.00	H
ATOM	4432	CA	ILE	467	47.814	73.648	62.686	1.00	0.00	C
ATOM	4433	CB	ILE	467	47.820	72.489	61.744	1.00	0.00	C
ATOM	4434	CG1	ILE	467	48.865	72.759	60.650	1.00	0.00	C
ATOM	4435	CG2	ILE	467	46.389	72.276	61.223	1.00	0.00	C
ATOM	4436	CD1	ILE	467	49.327	71.509	59.913	1.00	0.00	C
ATOM	4437	C	ILE	467	46.766	73.403	63.720	1.00	0.00	C

ATOM	4438	O	ILE	467	45.690	73.996	63.669	1.00	0.00	O
ATOM	4439	N	GLU	468	47.070	72.544	64.710	1.00	0.00	N
ATOM	4440	HN	GLU	468	47.998	72.122	64.741	1.00	0.00	H
ATOM	4441	CA	GLU	468	46.113	72.213	65.720	1.00	0.00	C
ATOM	4442	CB	GLU	468	46.651	71.320	66.851	1.00	0.00	C
ATOM	4443	CG	GLU	468	45.563	70.951	67.866	1.00	0.00	C
ATOM	4444	CD	GLU	468	46.219	70.395	69.121	1.00	0.00	C
ATOM	4445	OE1	GLU	468	47.149	71.065	69.645	1.00	0.00	O
ATOM	4446	OE2	GLU	468	45.798	69.298	69.576	1.00	0.00	O
ATOM	4447	C	GLU	468	45.727	73.500	66.355	1.00	0.00	C
ATOM	4448	O	GLU	468	44.545	73.796	66.515	1.00	0.00	O
ATOM	4449	N	LYS	469	46.727	74.333	66.678	1.00	0.00	N
ATOM	4450	HN	LYS	469	47.697	74.069	66.503	1.00	0.00	H
ATOM	4451	CA	LYS	469	46.417	75.594	67.270	1.00	0.00	C
ATOM	4452	CB	LYS	469	47.667	76.439	67.556	1.00	0.00	C
ATOM	4453	CG	LYS	469	47.383	77.942	67.501	1.00	0.00	C
ATOM	4454	CD	LYS	469	46.302	78.463	68.447	1.00	0.00	C
ATOM	4455	CE	LYS	469	45.805	79.846	68.015	1.00	0.00	C
ATOM	4456	NZ	LYS	469	44.771	80.340	68.945	1.00	0.00	N
ATOM	4457	HZ1	LYS	469	44.440	81.261	68.657	1.00	0.00	H
ATOM	4458	HZ2	LYS	469	45.099	80.340	69.911	1.00	0.00	H
ATOM	4459	HZ3	LYS	469	44.003	79.676	69.045	1.00	0.00	H
ATOM	4460	C	LYS	469	45.559	76.367	66.325	1.00	0.00	C
ATOM	4461	O	LYS	469	44.522	76.905	66.711	1.00	0.00	O
ATOM	4462	N	ALA	470	45.938	76.387	65.037	1.00	0.00	N
ATOM	4463	HN	ALA	470	46.719	75.813	64.720	1.00	0.00	H
ATOM	4464	CA	ALA	470	45.235	77.222	64.115	1.00	0.00	C
ATOM	4465	CB	ALA	470	45.793	77.111	62.688	1.00	0.00	C
ATOM	4466	C	ALA	470	43.788	76.832	64.069	1.00	0.00	C
ATOM	4467	O	ALA	470	42.915	77.674	64.271	1.00	0.00	O
ATOM	4468	N	VAL	471	43.491	75.532	63.891	1.00	0.00	N
ATOM	4469	HN	VAL	471	44.239	74.839	63.866	1.00	0.00	H
ATOM	4470	CA	VAL	471	42.127	75.115	63.736	1.00	0.00	C
ATOM	4471	CB	VAL	471	41.985	73.634	63.508	1.00	0.00	C
ATOM	4472	CG1	VAL	471	42.562	73.285	62.126	1.00	0.00	C
ATOM	4473	CG2	VAL	471	42.689	72.888	64.654	1.00	0.00	C
ATOM	4474	C	VAL	471	41.343	75.485	64.952	1.00	0.00	C
ATOM	4475	O	VAL	471	40.310	76.143	64.846	1.00	0.00	O
ATOM	4476	N	LYS	472	41.858	75.148	66.147	1.00	0.00	N
ATOM	4477	HN	LYS	472	42.779	74.712	66.193	1.00	0.00	H
ATOM	4478	CA	LYS	472	41.129	75.393	67.358	1.00	0.00	C
ATOM	4479	CB	LYS	472	41.920	75.014	68.623	1.00	0.00	C
ATOM	4480	CG	LYS	472	42.112	73.506	68.825	1.00	0.00	C
ATOM	4481	CD	LYS	472	43.239	73.171	69.806	1.00	0.00	C
ATOM	4482	CE	LYS	472	43.460	71.674	70.038	1.00	0.00	C
ATOM	4483	NZ	LYS	472	42.583	71.189	71.125	1.00	0.00	N
ATOM	4484	HZ1	LYS	472	42.730	70.192	71.280	1.00	0.00	H
ATOM	4485	HZ2	LYS	472	41.602	71.406	70.948	1.00	0.00	H
ATOM	4486	HZ3	LYS	472	42.705	71.729	71.982	1.00	0.00	H
ATOM	4487	C	LYS	472	40.829	76.860	67.432	1.00	0.00	C
ATOM	4488	O	LYS	472	39.758	77.255	67.889	1.00	0.00	O
ATOM	4489	N	GLU	473	41.764	77.708	66.964	1.00	0.00	N
ATOM	4490	HN	GLU	473	42.622	77.331	66.562	1.00	0.00	H
ATOM	4491	CA	GLU	473	41.581	79.134	67.017	1.00	0.00	C
ATOM	4492	CB	GLU	473	42.810	79.865	66.444	1.00	0.00	C
ATOM	4493	CG	GLU	473	42.964	81.320	66.893	1.00	0.00	C
ATOM	4494	CD	GLU	473	41.892	82.157	66.228	1.00	0.00	C
ATOM	4495	OE1	GLU	473	41.942	82.319	64.979	1.00	0.00	O
ATOM	4496	OE2	GLU	473	41.001	82.647	66.969	1.00	0.00	O
ATOM	4497	C	GLU	473	40.384	79.494	66.173	1.00	0.00	C
ATOM	4498	O	GLU	473	39.543	80.309	66.549	1.00	0.00	O
ATOM	4499	N	ALA	474	40.322	78.867	64.990	1.00	0.00	N
ATOM	4500	HN	ALA	474	41.107	78.239	64.819	1.00	0.00	H
ATOM	4501	CA	ALA	474	39.368	78.903	63.913	1.00	0.00	C
ATOM	4502	CB	ALA	474	39.902	78.269	62.616	1.00	0.00	C
ATOM	4503	C	ALA	474	38.083	78.210	64.261	1.00	0.00	C
ATOM	4504	O	ALA	474	37.275	77.987	63.369	1.00	0.00	O
ATOM	4505	N	ASN	475	37.979	77.608	65.458	1.00	0.00	N
ATOM	4506	HN	ASN	475	38.774	77.673	66.093	1.00	0.00	H
ATOM	4507	CA	ASN	475	36.816	76.874	65.907	1.00	0.00	C
ATOM	4508	CB	ASN	475	35.507	77.685	66.140	1.00	0.00	C
ATOM	4509	CG	ASN	475	34.749	78.090	64.872	1.00	0.00	C
ATOM	4510	OD1	ASN	475	35.118	79.018	64.156	1.00	0.00	O
ATOM	4511	ND2	ASN	475	33.604	77.399	64.614	1.00	0.00	N

ATOM	4512	1HD2	ASN	475	33.298	76.629	65.208	1.00	0.00	H
ATOM	4513	2HD2	ASN	475	33.099	77.669	63.770	1.00	0.00	H
ATOM	4514	C	ASN	475	36.539	75.760	64.939	1.00	0.00	C
ATOM	4515	O	ASN	475	35.388	75.430	64.663	1.00	0.00	O
ATOM	4516	N	ALA	476	37.611	75.262	64.296	1.00	0.00	N
ATOM	4517	HN	ALA	476	38.493	75.751	64.451	1.00	0.00	H
ATOM	4518	CA	ALA	476	37.667	74.123	63.415	1.00	0.00	C
ATOM	4519	CB	ALA	476	38.844	74.203	62.429	1.00	0.00	C
ATOM	4520	C	ALA	476	37.778	72.818	64.148	1.00	0.00	C
ATOM	4521	O	ALA	476	37.330	71.776	63.675	1.00	0.00	O
ATOM	4522	N	TYR	477	38.406	72.854	65.334	1.00	0.00	N
ATOM	4523	HN	TYR	477	38.565	73.765	65.764	1.00	0.00	H
ATOM	4524	CA	TYR	477	38.868	71.689	66.035	1.00	0.00	C
ATOM	4525	CB	TYR	477	39.501	72.052	67.391	1.00	0.00	C
ATOM	4526	CG	TYR	477	40.120	70.821	67.956	1.00	0.00	C
ATOM	4527	CD1	TYR	477	41.262	70.307	67.386	1.00	0.00	C
ATOM	4528	CD2	TYR	477	39.584	70.195	69.057	1.00	0.00	C
ATOM	4529	CE1	TYR	477	41.853	69.175	67.894	1.00	0.00	C
ATOM	4530	CE2	TYR	477	40.172	69.062	69.570	1.00	0.00	C
ATOM	4531	CZ	TYR	477	41.307	68.550	68.987	1.00	0.00	C
ATOM	4532	OH	TYR	477	41.915	67.389	69.509	1.00	0.00	O
ATOM	4533	HH	TYR	477	42.699	67.035	69.106	1.00	0.00	H
ATOM	4534	C	TYR	477	37.788	70.675	66.276	1.00	0.00	C
ATOM	4535	O	TYR	477	38.063	69.479	66.217	1.00	0.00	O
ATOM	4536	N	ASP	478	36.552	71.087	66.607	1.00	0.00	N
ATOM	4537	HN	ASP	478	36.328	72.082	66.641	1.00	0.00	H
ATOM	4538	CA	ASP	478	35.550	70.100	66.913	1.00	0.00	C
ATOM	4539	CB	ASP	478	34.256	70.719	67.491	1.00	0.00	C
ATOM	4540	CG	ASP	478	33.672	71.741	66.520	1.00	0.00	C
ATOM	4541	OD1	ASP	478	34.393	72.160	65.577	1.00	0.00	O
ATOM	4542	OD2	ASP	478	32.494	72.137	66.719	1.00	0.00	O
ATOM	4543	C	ASP	478	35.181	69.200	65.757	1.00	0.00	C
ATOM	4544	O	ASP	478	35.319	67.983	65.857	1.00	0.00	O
ATOM	4545	N	PHE	479	34.748	69.755	64.609	1.00	0.00	N
ATOM	4546	HN	PHE	479	34.767	70.769	64.499	1.00	0.00	H
ATOM	4547	CA	PHE	479	34.258	68.930	63.536	1.00	0.00	C
ATOM	4548	CB	PHE	479	33.554	69.710	62.403	1.00	0.00	C
ATOM	4549	CG	PHE	479	34.479	70.646	61.701	1.00	0.00	C
ATOM	4550	CD1	PHE	479	35.310	70.198	60.699	1.00	0.00	C
ATOM	4551	CD2	PHE	479	34.491	71.983	62.027	1.00	0.00	C
ATOM	4552	CE1	PHE	479	36.150	71.070	60.047	1.00	0.00	C
ATOM	4553	CE2	PHE	479	35.329	72.860	61.379	1.00	0.00	C
ATOM	4554	CZ	PHE	479	36.161	72.403	60.387	1.00	0.00	C
ATOM	4555	C	PHE	479	35.358	68.110	62.956	1.00	0.00	C
ATOM	4556	O	PHE	479	35.161	66.950	62.594	1.00	0.00	O
ATOM	4557	N	ILE	480	36.558	68.693	62.856	1.00	0.00	N
ATOM	4558	HN	ILE	480	36.683	69.653	63.176	1.00	0.00	H
ATOM	4559	CA	ILE	480	37.666	67.980	62.304	1.00	0.00	C
ATOM	4560	CB	ILE	480	38.921	68.791	62.309	1.00	0.00	C
ATOM	4561	CG1	ILE	480	39.231	69.201	63.754	1.00	0.00	C
ATOM	4562	CG2	ILE	480	38.759	69.962	61.325	1.00	0.00	C
ATOM	4563	CD1	ILE	480	40.604	69.819	63.955	1.00	0.00	C
ATOM	4564	C	ILE	480	37.873	66.768	63.144	1.00	0.00	C
ATOM	4565	O	ILE	480	38.257	65.723	62.625	1.00	0.00	O
ATOM	4566	N	MET	481	37.706	66.892	64.474	1.00	0.00	N
ATOM	4567	HN	MET	481	37.470	67.800	64.875	1.00	0.00	H
ATOM	4568	CA	MET	481	37.860	65.749	65.329	1.00	0.00	C
ATOM	4569	CB	MET	481	37.948	66.104	66.818	1.00	0.00	C
ATOM	4570	CG	MET	481	39.287	66.745	67.176	1.00	0.00	C
ATOM	4571	SD	MET	481	40.724	65.724	66.727	1.00	0.00	S
ATOM	4572	CE	MET	481	40.184	64.250	67.640	1.00	0.00	C
ATOM	4573	C	MET	481	36.765	64.724	65.160	1.00	0.00	C
ATOM	4574	O	MET	481	37.054	63.533	65.073	1.00	0.00	O
ATOM	4575	N	LYS	482	35.480	65.142	65.112	1.00	0.00	N
ATOM	4576	HN	LYS	482	35.281	66.142	65.143	1.00	0.00	H
ATOM	4577	CA	LYS	482	34.382	64.207	65.018	1.00	0.00	C
ATOM	4578	CB	LYS	482	33.000	64.886	65.148	1.00	0.00	C
ATOM	4579	CG	LYS	482	31.791	63.939	65.102	1.00	0.00	C
ATOM	4580	CD	LYS	482	31.517	63.310	63.733	1.00	0.00	C
ATOM	4581	CE	LYS	482	30.406	62.255	63.740	1.00	0.00	C
ATOM	4582	NZ	LYS	482	30.937	60.960	64.222	1.00	0.00	N
ATOM	4583	HZ1	LYS	482	30.197	60.258	64.227	1.00	0.00	H
ATOM	4584	HZ2	LYS	482	31.386	61.047	65.134	1.00	0.00	H
ATOM	4585	HZ3	LYS	482	31.748	60.656	63.684	1.00	0.00	H

ATOM	4586	C	LYS	482	34.453	63.527	63.695	1.00	0.00	C
ATOM	4587	O	LYS	482	34.229	62.322	63.580	1.00	0.00	O
ATOM	4588	N	LEU	483	34.801	64.310	62.664	1.00	0.00	N
ATOM	4589	HN	LEU	483	34.994	65.293	62.855	1.00	0.00	H
ATOM	4590	CA	LEU	483	34.918	63.855	61.316	1.00	0.00	C
ATOM	4591	CB	LEU	483	35.613	64.946	60.465	1.00	0.00	C
ATOM	4592	CG	LEU	483	35.600	64.850	58.923	1.00	0.00	C
ATOM	4593	CD1	LEU	483	36.186	63.550	58.371	1.00	0.00	C
ATOM	4594	CD2	LEU	483	34.222	65.201	58.359	1.00	0.00	C
ATOM	4595	C	LEU	483	35.848	62.686	61.404	1.00	0.00	C
ATOM	4596	O	LEU	483	36.794	62.705	62.189	1.00	0.00	O
ATOM	4597	N	PRO	484	35.599	61.650	60.656	1.00	0.00	N
ATOM	4598	CA	PRO	484	36.406	60.465	60.689	1.00	0.00	C
ATOM	4599	CD	PRO	484	34.438	61.530	59.791	1.00	0.00	C
ATOM	4600	CB	PRO	484	35.680	59.454	59.799	1.00	0.00	C
ATOM	4601	CG	PRO	484	34.759	60.311	58.911	1.00	0.00	C
ATOM	4602	C	PRO	484	37.757	60.828	60.195	1.00	0.00	C
ATOM	4603	O	PRO	484	37.915	61.954	59.755	1.00	0.00	O
ATOM	4604	N	HIS	485	38.760	59.954	60.371	1.00	0.00	N
ATOM	4605	HN	HIS	485	38.572	59.124	60.934	1.00	0.00	H
ATOM	4606	CA	HIS	485	40.082	60.104	59.822	1.00	0.00	C
ATOM	4607	ND1	HIS	485	40.505	58.255	56.924	1.00	0.00	N
ATOM	4608	HD1	HIS	485	41.513	58.207	57.075	1.00	0.00	H
ATOM	4609	CG	HIS	485	39.642	59.198	57.441	1.00	0.00	C
ATOM	4610	CB	HIS	485	40.072	60.348	58.298	1.00	0.00	C
ATOM	4611	NE2	HIS	485	38.479	57.733	56.175	1.00	0.00	N
ATOM	4612	HE2	HIS	485	37.714	57.260	55.693	1.00	0.00	H
ATOM	4613	CD2	HIS	485	38.406	58.858	56.970	1.00	0.00	C
ATOM	4614	CE1	HIS	485	39.759	57.403	56.176	1.00	0.00	C
ATOM	4615	C	HIS	485	40.844	61.271	60.387	1.00	0.00	C
ATOM	4616	O	HIS	485	42.057	61.324	60.191	1.00	0.00	O
ATOM	4617	N	LYS	486	40.215	62.197	61.143	1.00	0.00	N
ATOM	4618	HN	LYS	486	39.209	62.136	61.301	1.00	0.00	H
ATOM	4619	CA	LYS	486	40.981	63.275	61.726	1.00	0.00	C
ATOM	4620	CB	LYS	486	42.223	62.794	62.496	1.00	0.00	C
ATOM	4621	CG	LYS	486	41.869	61.960	63.728	1.00	0.00	C
ATOM	4622	CD	LYS	486	43.060	61.209	64.324	1.00	0.00	C
ATOM	4623	CE	LYS	486	44.129	62.135	64.907	1.00	0.00	C
ATOM	4624	NZ	LYS	486	43.680	62.670	66.211	1.00	0.00	N
ATOM	4625	HZ1	LYS	486	44.393	63.287	66.600	1.00	0.00	H
ATOM	4626	HZ2	LYS	486	43.423	61.927	66.861	1.00	0.00	H
ATOM	4627	HZ3	LYS	486	42.772	63.130	66.143	1.00	0.00	H
ATOM	4628	C	LYS	486	41.418	64.301	60.706	1.00	0.00	C
ATOM	4629	O	LYS	486	40.703	64.649	59.773	1.00	0.00	O
ATOM	4630	N	PHE	487	42.616	64.873	60.924	1.00	0.00	N
ATOM	4631	HN	PHE	487	43.138	64.562	61.744	1.00	0.00	H
ATOM	4632	CA	PHE	487	43.228	65.888	60.100	1.00	0.00	C
ATOM	4633	CB	PHE	487	44.511	66.447	60.737	1.00	0.00	C
ATOM	4634	CG	PHE	487	44.103	67.176	61.971	1.00	0.00	C
ATOM	4635	CD1	PHE	487	43.714	68.493	61.892	1.00	0.00	C
ATOM	4636	CD2	PHE	487	44.102	66.549	63.198	1.00	0.00	C
ATOM	4637	CE1	PHE	487	43.334	69.178	63.021	1.00	0.00	C
ATOM	4638	CE2	PHE	487	43.723	67.230	64.332	1.00	0.00	C
ATOM	4639	CZ	PHE	487	43.339	68.546	64.242	1.00	0.00	C
ATOM	4640	C	PHE	487	43.594	65.297	58.778	1.00	0.00	C
ATOM	4641	O	PHE	487	43.654	65.978	57.754	1.00	0.00	O
ATOM	4642	N	ASP	488	43.907	63.999	58.815	1.00	0.00	N
ATOM	4643	HN	ASP	488	43.830	63.531	59.718	1.00	0.00	H
ATOM	4644	CA	ASP	488	44.339	63.205	57.711	1.00	0.00	C
ATOM	4645	CB	ASP	488	44.784	61.815	58.182	1.00	0.00	C
ATOM	4646	CG	ASP	488	45.778	61.276	57.180	1.00	0.00	C
ATOM	4647	OD1	ASP	488	45.405	61.112	55.990	1.00	0.00	O
ATOM	4648	OD2	ASP	488	46.938	61.022	57.603	1.00	0.00	O
ATOM	4649	C	ASP	488	43.202	63.049	56.746	1.00	0.00	C
ATOM	4650	O	ASP	488	43.418	62.645	55.604	1.00	0.00	O
ATOM	4651	N	THR	489	41.955	63.316	57.194	1.00	0.00	N
ATOM	4652	HN	THR	489	41.828	63.649	58.150	1.00	0.00	H
ATOM	4653	CA	THR	489	40.800	63.140	56.349	1.00	0.00	C
ATOM	4654	CB	THR	489	39.545	63.781	56.844	1.00	0.00	C
ATOM	4655	OG1	THR	489	39.279	63.315	58.137	1.00	0.00	O
ATOM	4656	HG1	THR	489	38.481	63.723	58.452	1.00	0.00	H
ATOM	4657	CG2	THR	489	38.358	63.417	55.934	1.00	0.00	C
ATOM	4658	C	THR	489	41.036	63.881	55.079	1.00	0.00	C
ATOM	4659	O	THR	489	41.771	64.865	55.057	1.00	0.00	O

ATOM	4660	N	LEU	490	40.396	63.405	53.990	1.00	0.00	N
ATOM	4661	HN	LEU	490	39.801	62.585	54.106	1.00	0.00	H
ATOM	4662	CA	LEU	490	40.500	63.980	52.680	1.00	0.00	C
ATOM	4663	CB	LEU	490	40.215	63.023	51.519	1.00	0.00	C
ATOM	4664	CG	LEU	490	41.134	61.822	51.341	1.00	0.00	C
ATOM	4665	CD1	LEU	490	41.088	60.876	52.553	1.00	0.00	C
ATOM	4666	CD2	LEU	490	40.756	61.127	50.027	1.00	0.00	C
ATOM	4667	C	LEU	490	39.391	64.949	52.481	1.00	0.00	C
ATOM	4668	O	LEU	490	38.720	65.380	53.420	1.00	0.00	O
ATOM	4669	N	VAL	491	39.228	65.376	51.206	1.00	0.00	N
ATOM	4670	HN	VAL	491	39.897	65.132	50.475	1.00	0.00	H
ATOM	4671	CA	VAL	491	38.086	66.179	50.926	1.00	0.00	C
ATOM	4672	CB	VAL	491	38.391	67.647	50.844	1.00	0.00	C
ATOM	4673	CG1	VAL	491	37.085	68.394	50.535	1.00	0.00	C
ATOM	4674	CG2	VAL	491	39.053	68.099	52.156	1.00	0.00	C
ATOM	4675	C	VAL	491	37.495	65.752	49.611	1.00	0.00	C
ATOM	4676	O	VAL	491	37.678	66.439	48.609	1.00	0.00	O
ATOM	4677	N	GLY	492	36.854	64.561	49.592	1.00	0.00	N
ATOM	4678	HN	GLY	492	37.020	63.955	50.395	1.00	0.00	H
ATOM	4679	CA	GLY	492	35.965	64.036	48.582	1.00	0.00	C
ATOM	4680	C	GLY	492	36.106	64.684	47.242	1.00	0.00	C
ATOM	4681	O	GLY	492	35.108	65.133	46.681	1.00	0.00	O
ATOM	4682	N	GLU	493	37.317	64.712	46.667	1.00	0.00	N
ATOM	4683	HN	GLU	493	38.120	64.303	47.144	1.00	0.00	H
ATOM	4684	CA	GLU	493	37.478	65.319	45.380	1.00	0.00	C
ATOM	4685	CB	GLU	493	36.903	64.482	44.232	1.00	0.00	C
ATOM	4686	CG	GLU	493	37.119	65.147	42.876	1.00	0.00	C
ATOM	4687	CD	GLU	493	36.312	64.382	41.845	1.00	0.00	C
ATOM	4688	OE1	GLU	493	35.423	63.590	42.255	1.00	0.00	O
ATOM	4689	OE2	GLU	493	36.570	64.589	40.630	1.00	0.00	O
ATOM	4690	C	GLU	493	36.869	66.686	45.278	1.00	0.00	C
ATOM	4691	O	GLU	493	35.731	66.845	44.839	1.00	0.00	O
ATOM	4692	N	ARG	494	37.609	67.701	45.763	1.00	0.00	N
ATOM	4693	HN	ARG	494	38.491	67.466	46.218	1.00	0.00	H
ATOM	4694	CA	ARG	494	37.250	69.088	45.688	1.00	0.00	C
ATOM	4695	CB	ARG	494	36.330	69.495	44.515	1.00	0.00	C
ATOM	4696	CG	ARG	494	36.440	70.979	44.124	1.00	0.00	C
ATOM	4697	CD	ARG	494	35.238	71.851	44.506	1.00	0.00	C
ATOM	4698	NE	ARG	494	35.508	73.240	44.021	1.00	0.00	N
ATOM	4699	HE	ARG	494	35.472	73.445	43.022	1.00	0.00	H
ATOM	4700	CZ	ARG	494	35.803	74.237	44.909	1.00	0.00	C
ATOM	4701	NH1	ARG	494	35.803	73.971	46.247	1.00	0.00	N
ATOM	4702	1HH1	ARG	494	36.023	74.715	46.909	1.00	0.00	H
ATOM	4703	2HH1	ARG	494	35.598	73.027	46.575	1.00	0.00	H
ATOM	4704	NH2	ARG	494	36.077	75.500	44.470	1.00	0.00	N
ATOM	4705	1HH2	ARG	494	36.297	76.244	45.132	1.00	0.00	H
ATOM	4706	2HH2	ARG	494	36.077	75.699	43.470	1.00	0.00	H
ATOM	4707	C	ARG	494	36.631	69.421	46.972	1.00	0.00	C
ATOM	4708	O	ARG	494	36.546	68.588	47.866	1.00	0.00	O
ATOM	4709	N	GLY	495	36.157	70.657	47.065	1.00	0.00	N
ATOM	4710	HN	GLY	495	36.209	71.247	46.235	1.00	0.00	H
ATOM	4711	CA	GLY	495	35.582	71.218	48.239	1.00	0.00	C
ATOM	4712	C	GLY	495	34.349	70.466	48.618	1.00	0.00	C
ATOM	4713	O	GLY	495	33.722	70.833	49.603	1.00	0.00	O
ATOM	4714	N	ALA	496	33.856	69.515	47.795	1.00	0.00	N
ATOM	4715	HN	ALA	496	34.346	69.204	46.956	1.00	0.00	H
ATOM	4716	CA	ALA	496	32.581	68.975	48.198	1.00	0.00	C
ATOM	4717	CB	ALA	496	31.672	68.687	46.993	1.00	0.00	C
ATOM	4718	C	ALA	496	32.638	67.714	49.016	1.00	0.00	C
ATOM	4719	O	ALA	496	32.515	66.615	48.477	1.00	0.00	O
ATOM	4720	N	GLN	497	33.011	67.794	50.308	1.00	0.00	N
ATOM	4721	HN	GLN	497	33.503	68.626	50.633	1.00	0.00	H
ATOM	4722	CA	GLN	497	32.733	66.737	51.238	1.00	0.00	C
ATOM	4723	CB	GLN	497	34.032	66.219	51.860	1.00	0.00	C
ATOM	4724	CG	GLN	497	33.921	64.841	52.498	1.00	0.00	C
ATOM	4725	CD	GLN	497	35.350	64.345	52.630	1.00	0.00	C
ATOM	4726	OE1	GLN	497	36.276	65.140	52.783	1.00	0.00	O
ATOM	4727	NE2	GLN	497	35.545	63.002	52.542	1.00	0.00	N
ATOM	4728	1HE2	GLN	497	36.505	62.669	52.631	1.00	0.00	H
ATOM	4729	2HE2	GLN	497	34.777	62.343	52.415	1.00	0.00	H
ATOM	4730	C	GLN	497	31.783	67.193	52.323	1.00	0.00	C
ATOM	4731	O	GLN	497	30.896	66.460	52.763	1.00	0.00	O
ATOM	4732	N	LEU	498	31.986	68.461	52.777	1.00	0.00	N
ATOM	4733	HN	LEU	498	32.594	69.074	52.234	1.00	0.00	H



ATOM	4734	CA	LEU	498	31.390	68.989	53.984	1.00	0.00	C
ATOM	4735	CB	LEU	498	32.421	69.427	55.040	1.00	0.00	C
ATOM	4736	CG	LEU	498	33.542	68.419	55.340	1.00	0.00	C
ATOM	4737	CD1	LEU	498	32.990	67.079	55.843	1.00	0.00	C
ATOM	4738	CD2	LEU	498	34.501	68.287	54.146	1.00	0.00	C
ATOM	4739	C	LEU	498	30.651	70.262	53.705	1.00	0.00	C
ATOM	4740	O	LEU	498	30.647	70.792	52.596	1.00	0.00	O
ATOM	4741	N	SER	499	30.017	70.803	54.767	1.00	0.00	N
ATOM	4742	HN	SER	499	30.092	70.345	55.675	1.00	0.00	H
ATOM	4743	CA	SER	499	29.242	72.001	54.654	1.00	0.00	C
ATOM	4744	CB	SER	499	28.408	72.307	55.905	1.00	0.00	C
ATOM	4745	OG	SER	499	29.271	72.606	56.991	1.00	0.00	O
ATOM	4746	HG	SER	499	28.755	72.795	57.766	1.00	0.00	H
ATOM	4747	C	SER	499	30.141	73.172	54.426	1.00	0.00	C
ATOM	4748	O	SER	499	31.233	73.275	54.986	1.00	0.00	O
ATOM	4749	N	GLY	500	29.627	74.135	53.641	1.00	0.00	N
ATOM	4750	HN	GLY	500	28.672	74.019	53.303	1.00	0.00	H
ATOM	4751	CA	GLY	500	30.341	75.314	53.251	1.00	0.00	C
ATOM	4752	C	GLY	500	30.736	76.006	54.503	1.00	0.00	C
ATOM	4753	O	GLY	500	31.745	76.711	54.549	1.00	0.00	O
ATOM	4754	N	GLY	501	29.917	75.845	55.554	1.00	0.00	N
ATOM	4755	HN	GLY	501	29.087	75.256	55.489	1.00	0.00	H
ATOM	4756	CA	GLY	501	30.245	76.525	56.765	1.00	0.00	C
ATOM	4757	C	GLY	501	31.605	76.078	57.214	1.00	0.00	C
ATOM	4758	O	GLY	501	32.479	76.909	57.440	1.00	0.00	O
ATOM	4759	N	GLN	502	31.845	74.754	57.297	1.00	0.00	N
ATOM	4760	HN	GLN	502	31.116	74.098	57.016	1.00	0.00	H
ATOM	4761	CA	GLN	502	33.102	74.242	57.772	1.00	0.00	C
ATOM	4762	CB	GLN	502	33.094	72.709	57.877	1.00	0.00	C
ATOM	4763	CG	GLN	502	32.076	72.197	58.895	1.00	0.00	C
ATOM	4764	CD	GLN	502	32.005	70.682	58.787	1.00	0.00	C
ATOM	4765	OE1	GLN	502	32.472	70.094	57.814	1.00	0.00	O
ATOM	4766	NE2	GLN	502	31.399	70.031	59.814	1.00	0.00	N
ATOM	4767	1HE2	GLN	502	31.011	70.519	60.622	1.00	0.00	H
ATOM	4768	2HE2	GLN	502	31.351	69.015	59.742	1.00	0.00	H
ATOM	4769	C	GLN	502	34.176	74.617	56.807	1.00	0.00	C
ATOM	4770	O	GLN	502	35.282	74.976	57.210	1.00	0.00	O
ATOM	4771	N	LYS	503	33.853	74.565	55.501	1.00	0.00	N
ATOM	4772	HN	LYS	503	32.900	74.316	55.234	1.00	0.00	H
ATOM	4773	CA	LYS	503	34.814	74.851	54.474	1.00	0.00	C
ATOM	4774	CB	LYS	503	34.139	74.990	53.097	1.00	0.00	C
ATOM	4775	CG	LYS	503	33.635	73.685	52.477	1.00	0.00	C
ATOM	4776	CD	LYS	503	34.751	72.811	51.915	1.00	0.00	C
ATOM	4777	CE	LYS	503	35.438	73.455	50.708	1.00	0.00	C
ATOM	4778	NZ	LYS	503	34.434	73.836	49.687	1.00	0.00	N
ATOM	4779	HZ1	LYS	503	34.892	74.265	48.883	1.00	0.00	H
ATOM	4780	HZ2	LYS	503	33.706	74.436	50.075	1.00	0.00	H
ATOM	4781	HZ3	LYS	503	33.849	73.046	49.415	1.00	0.00	H
ATOM	4782	C	LYS	503	35.384	76.194	54.778	1.00	0.00	C
ATOM	4783	O	LYS	503	36.585	76.356	54.993	1.00	0.00	O
ATOM	4784	N	GLN	504	34.483	77.165	54.950	1.00	0.00	N
ATOM	4785	HN	GLN	504	33.492	76.929	54.902	1.00	0.00	H
ATOM	4786	CA	GLN	504	34.855	78.522	55.199	1.00	0.00	C
ATOM	4787	CB	GLN	504	33.608	79.367	55.505	1.00	0.00	C
ATOM	4788	CG	GLN	504	33.913	80.776	56.000	1.00	0.00	C
ATOM	4789	CD	GLN	504	34.683	81.491	54.909	1.00	0.00	C
ATOM	4790	OE1	GLN	504	35.780	81.983	55.154	1.00	0.00	O
ATOM	4791	NE2	GLN	504	34.109	81.553	53.678	1.00	0.00	N
ATOM	4792	1HE2	GLN	504	33.197	81.144	53.474	1.00	0.00	H
ATOM	4793	2HE2	GLN	504	34.628	82.034	52.943	1.00	0.00	H
ATOM	4794	C	GLN	504	35.724	78.533	56.411	1.00	0.00	C
ATOM	4795	O	GLN	504	36.762	79.196	56.438	1.00	0.00	O
ATOM	4796	N	ARG	505	35.344	77.750	57.434	1.00	0.00	N
ATOM	4797	HN	ARG	505	34.526	77.148	57.344	1.00	0.00	H
ATOM	4798	CA	ARG	505	36.096	77.767	58.652	1.00	0.00	C
ATOM	4799	CB	ARG	505	35.515	76.849	59.743	1.00	0.00	C
ATOM	4800	CG	ARG	505	34.374	77.495	60.532	1.00	0.00	C
ATOM	4801	CD	ARG	505	33.786	76.618	61.642	1.00	0.00	C
ATOM	4802	NE	ARG	505	32.693	75.792	61.058	1.00	0.00	N
ATOM	4803	HE	ARG	505	32.574	75.743	60.046	1.00	0.00	H
ATOM	4804	CZ	ARG	505	31.849	75.100	61.881	1.00	0.00	C
ATOM	4805	NH1	ARG	505	32.050	75.104	63.231	1.00	0.00	N
ATOM	4806	1HH1	ARG	505	32.834	75.623	63.626	1.00	0.00	H
ATOM	4807	2HH1	ARG	505	31.420	74.588	63.845	1.00	0.00	H

ATOM	4808	NH2	ARG	505	30.800	74.406	61.352	1.00	0.00	N
ATOM	4809	1HH2	ARG	505	30.650	74.403	60.343	1.00	0.00	H
ATOM	4810	2HH2	ARG	505	30.170	73.890	61.966	1.00	0.00	H
ATOM	4811	C	ARG	505	37.495	77.330	58.390	1.00	0.00	C
ATOM	4812	O	ARG	505	38.441	78.015	58.779	1.00	0.00	O
ATOM	4813	N	ILE	506	37.660	76.223	57.649	1.00	0.00	N
ATOM	4814	HN	ILE	506	36.847	75.766	57.235	1.00	0.00	H
ATOM	4815	CA	ILE	506	38.969	75.676	57.433	1.00	0.00	C
ATOM	4816	CB	ILE	506	38.942	74.465	56.547	1.00	0.00	C
ATOM	4817	CG1	ILE	506	38.136	73.346	57.232	1.00	0.00	C
ATOM	4818	CG2	ILE	506	40.392	74.072	56.216	1.00	0.00	C
ATOM	4819	CD1	ILE	506	37.772	72.183	56.310	1.00	0.00	C
ATOM	4820	C	ILE	506	39.797	76.739	56.792	1.00	0.00	C
ATOM	4821	O	ILE	506	40.957	76.935	57.154	1.00	0.00	O
ATOM	4822	N	ALA	507	39.189	77.500	55.867	1.00	0.00	N
ATOM	4823	HN	ALA	507	38.202	77.357	55.655	1.00	0.00	H
ATOM	4824	CA	ALA	507	39.931	78.513	55.179	1.00	0.00	C
ATOM	4825	CB	ALA	507	39.071	79.299	54.174	1.00	0.00	C
ATOM	4826	C	ALA	507	40.461	79.489	56.176	1.00	0.00	C
ATOM	4827	O	ALA	507	41.643	79.824	56.157	1.00	0.00	O
ATOM	4828	N	ILE	508	39.616	79.899	57.134	1.00	0.00	N
ATOM	4829	HN	ILE	508	38.679	79.497	57.173	1.00	0.00	H
ATOM	4830	CA	ILE	508	39.991	80.886	58.106	1.00	0.00	C
ATOM	4831	CB	ILE	508	38.960	81.029	59.190	1.00	0.00	C
ATOM	4832	CG1	ILE	508	37.598	81.468	58.618	1.00	0.00	C
ATOM	4833	CG2	ILE	508	39.532	81.964	60.269	1.00	0.00	C
ATOM	4834	CD1	ILE	508	37.603	82.838	57.947	1.00	0.00	C
ATOM	4835	C	ILE	508	41.216	80.380	58.781	1.00	0.00	C
ATOM	4836	O	ILE	508	42.142	81.137	59.065	1.00	0.00	O
ATOM	4837	N	ALA	509	41.248	79.067	59.047	1.00	0.00	N
ATOM	4838	HN	ALA	509	40.452	78.475	58.808	1.00	0.00	H
ATOM	4839	CA	ALA	509	42.403	78.502	59.667	1.00	0.00	C
ATOM	4840	CB	ALA	509	42.263	76.989	59.902	1.00	0.00	C
ATOM	4841	C	ALA	509	43.584	78.698	58.763	1.00	0.00	C
ATOM	4842	O	ALA	509	44.641	79.138	59.216	1.00	0.00	O
ATOM	4843	N	ARG	510	43.433	78.427	57.447	1.00	0.00	N
ATOM	4844	HN	ARG	510	42.522	78.177	57.062	1.00	0.00	H
ATOM	4845	CA	ARG	510	44.602	78.503	56.606	1.00	0.00	C
ATOM	4846	CB	ARG	510	44.396	78.147	55.119	1.00	0.00	C
ATOM	4847	CG	ARG	510	43.534	79.126	54.325	1.00	0.00	C
ATOM	4848	CD	ARG	510	43.574	78.901	52.817	1.00	0.00	C
ATOM	4849	NE	ARG	510	43.094	77.516	52.574	1.00	0.00	N
ATOM	4850	HE	ARG	510	43.455	76.743	53.133	1.00	0.00	H
ATOM	4851	CZ	ARG	510	42.168	77.285	51.599	1.00	0.00	C
ATOM	4852	NH1	ARG	510	41.698	78.323	50.848	1.00	0.00	N
ATOM	4853	1HH1	ARG	510	42.041	79.270	51.012	1.00	0.00	H
ATOM	4854	2HH1	ARG	510	41.006	78.150	50.119	1.00	0.00	H
ATOM	4855	NH2	ARG	510	41.710	76.020	51.380	1.00	0.00	N
ATOM	4856	1HH2	ARG	510	42.061	75.244	51.941	1.00	0.00	H
ATOM	4857	2HH2	ARG	510	41.018	75.847	50.651	1.00	0.00	H
ATOM	4858	C	ARG	510	45.143	79.894	56.643	1.00	0.00	C
ATOM	4859	O	ARG	510	46.321	80.107	56.922	1.00	0.00	O
ATOM	4860	N	ALA	511	44.264	80.885	56.445	1.00	0.00	N
ATOM	4861	HN	ALA	511	43.285	80.657	56.274	1.00	0.00	H
ATOM	4862	CA	ALA	511	44.669	82.258	56.468	1.00	0.00	C
ATOM	4863	CB	ALA	511	43.500	83.231	56.245	1.00	0.00	C
ATOM	4864	C	ALA	511	45.216	82.525	57.828	1.00	0.00	C
ATOM	4865	O	ALA	511	46.132	83.327	57.995	1.00	0.00	O
ATOM	4866	N	LEU	512	44.649	81.847	58.840	1.00	0.00	N
ATOM	4867	HN	LEU	512	43.936	81.147	58.634	1.00	0.00	H
ATOM	4868	CA	LEU	512	45.024	82.085	60.200	1.00	0.00	C
ATOM	4869	CB	LEU	512	44.202	81.251	61.201	1.00	0.00	C
ATOM	4870	CG	LEU	512	44.323	81.714	62.671	1.00	0.00	C
ATOM	4871	CD1	LEU	512	45.716	81.466	63.267	1.00	0.00	C
ATOM	4872	CD2	LEU	512	43.880	83.180	62.812	1.00	0.00	C
ATOM	4873	C	LEU	512	46.480	81.762	60.384	1.00	0.00	C
ATOM	4874	O	LEU	512	47.166	82.454	61.134	1.00	0.00	O
ATOM	4875	N	VAL	513	46.984	80.689	59.735	1.00	0.00	N
ATOM	4876	HN	VAL	513	46.358	80.130	59.155	1.00	0.00	H
ATOM	4877	CA	VAL	513	48.371	80.300	59.828	1.00	0.00	C
ATOM	4878	CB	VAL	513	48.663	78.986	59.166	1.00	0.00	C
ATOM	4879	CG1	VAL	513	50.165	78.684	59.311	1.00	0.00	C
ATOM	4880	CG2	VAL	513	47.747	77.919	59.787	1.00	0.00	C
ATOM	4881	C	VAL	513	49.218	81.330	59.150	1.00	0.00	C

ATOM	4882	O	VAL	513	50.348	81.592	59.560	1.00	0.00	O
ATOM	4883	N	ARG	514	48.685	81.929	58.072	1.00	0.00	N
ATOM	4884	HN	ARG	514	47.756	81.645	57.762	1.00	0.00	H
ATOM	4885	CA	ARG	514	49.373	82.954	57.339	1.00	0.00	C
ATOM	4886	CB	ARG	514	48.512	83.525	56.199	1.00	0.00	C
ATOM	4887	CG	ARG	514	48.181	82.501	55.108	1.00	0.00	C
ATOM	4888	CD	ARG	514	48.817	82.802	53.748	1.00	0.00	C
ATOM	4889	NE	ARG	514	50.261	82.443	53.826	1.00	0.00	N
ATOM	4890	HE	ARG	514	50.587	81.785	54.534	1.00	0.00	H
ATOM	4891	CZ	ARG	514	51.145	82.998	52.947	1.00	0.00	C
ATOM	4892	NH1	ARG	514	50.700	83.881	52.008	1.00	0.00	N
ATOM	4893	1HH1	ARG	514	49.709	84.120	51.962	1.00	0.00	H
ATOM	4894	2HH1	ARG	514	51.361	84.296	51.351	1.00	0.00	H
ATOM	4895	NH2	ARG	514	52.471	82.678	53.009	1.00	0.00	N
ATOM	4896	1HH2	ARG	514	52.804	82.018	53.711	1.00	0.00	H
ATOM	4897	2HH2	ARG	514	53.132	83.093	52.352	1.00	0.00	H
ATOM	4898	C	ARG	514	49.662	84.074	58.310	1.00	0.00	C
ATOM	4899	O	ARG	514	50.698	84.731	58.220	1.00	0.00	O
ATOM	4900	N	ASN	515	48.729	84.310	59.259	1.00	0.00	N
ATOM	4901	HN	ASN	515	47.886	83.737	59.215	1.00	0.00	H
ATOM	4902	CA	ASN	515	48.788	85.284	60.333	1.00	0.00	C
ATOM	4903	CB	ASN	515	49.521	84.812	61.612	1.00	0.00	C
ATOM	4904	CG	ASN	515	51.017	84.643	61.375	1.00	0.00	C
ATOM	4905	OD1	ASN	515	51.451	83.855	60.538	1.00	0.00	O
ATOM	4906	ND2	ASN	515	51.828	85.421	62.140	1.00	0.00	N
ATOM	4907	1HD2	ASN	515	51.468	86.075	62.835	1.00	0.00	H
ATOM	4908	2HD2	ASN	515	52.829	85.308	61.981	1.00	0.00	H
ATOM	4909	C	ASN	515	49.297	86.644	59.923	1.00	0.00	C
ATOM	4910	O	ASN	515	50.436	87.032	60.180	1.00	0.00	O
ATOM	4911	N	PRO	516	48.426	87.362	59.271	1.00	0.00	N
ATOM	4912	CA	PRO	516	48.646	88.693	58.748	1.00	0.00	C
ATOM	4913	CD	PRO	516	47.229	86.747	58.724	1.00	0.00	C
ATOM	4914	CB	PRO	516	47.655	88.843	57.616	1.00	0.00	C
ATOM	4915	CG	PRO	516	46.512	87.889	57.995	1.00	0.00	C
ATOM	4916	C	PRO	516	48.433	89.812	59.730	1.00	0.00	C
ATOM	4917	O	PRO	516	48.201	89.572	60.911	1.00	0.00	O
ATOM	4918	N	LYS	517	48.708	91.042	59.263	1.00	0.00	N
ATOM	4919	HN	LYS	517	49.149	91.066	58.344	1.00	0.00	H
ATOM	4920	CA	LYS	517	48.476	92.331	59.860	1.00	0.00	C
ATOM	4921	CB	LYS	517	49.570	93.328	59.439	1.00	0.00	C
ATOM	4922	CG	LYS	517	50.989	92.824	59.733	1.00	0.00	C
ATOM	4923	CD	LYS	517	51.426	91.653	58.843	1.00	0.00	C
ATOM	4924	CE	LYS	517	52.818	91.100	59.158	1.00	0.00	C
ATOM	4925	NZ	LYS	517	52.761	90.203	60.335	1.00	0.00	N
ATOM	4926	HZ1	LYS	517	53.689	89.834	60.545	1.00	0.00	H
ATOM	4927	HZ2	LYS	517	52.075	89.458	60.213	1.00	0.00	H
ATOM	4928	HZ3	LYS	517	52.343	90.663	61.144	1.00	0.00	H
ATOM	4929	C	LYS	517	47.160	92.909	59.434	1.00	0.00	C
ATOM	4930	O	LYS	517	46.588	93.762	60.114	1.00	0.00	O
ATOM	4931	N	ILE	518	46.709	92.537	58.220	1.00	0.00	N
ATOM	4932	HN	ILE	518	47.230	91.842	57.685	1.00	0.00	H
ATOM	4933	CA	ILE	518	45.514	93.097	57.667	1.00	0.00	C
ATOM	4934	CB	ILE	518	45.775	93.954	56.467	1.00	0.00	C
ATOM	4935	CG1	ILE	518	46.763	95.058	56.862	1.00	0.00	C
ATOM	4936	CG2	ILE	518	44.438	94.508	55.945	1.00	0.00	C
ATOM	4937	CD1	ILE	518	47.324	95.829	55.674	1.00	0.00	C
ATOM	4938	C	ILE	518	44.660	91.952	57.248	1.00	0.00	C
ATOM	4939	O	ILE	518	45.167	90.911	56.831	1.00	0.00	O
ATOM	4940	N	LEU	519	43.329	92.102	57.381	1.00	0.00	N
ATOM	4941	HN	LEU	519	42.933	92.978	57.724	1.00	0.00	H
ATOM	4942	CA	LEU	519	42.483	91.003	57.030	1.00	0.00	C
ATOM	4943	CB	LEU	519	41.917	90.302	58.283	1.00	0.00	C
ATOM	4944	CG	LEU	519	41.220	88.944	58.063	1.00	0.00	C
ATOM	4945	CD1	LEU	519	40.725	88.368	59.399	1.00	0.00	C
ATOM	4946	CD2	LEU	519	40.098	89.019	57.020	1.00	0.00	C
ATOM	4947	C	LEU	519	41.357	91.548	56.205	1.00	0.00	C
ATOM	4948	O	LEU	519	40.660	92.472	56.625	1.00	0.00	O
ATOM	4949	N	LEU	520	41.154	90.987	54.996	1.00	0.00	N
ATOM	4950	HN	LEU	520	41.770	90.239	54.677	1.00	0.00	H
ATOM	4951	CA	LEU	520	40.081	91.430	54.154	1.00	0.00	C
ATOM	4952	CB	LEU	520	40.529	91.740	52.713	1.00	0.00	C
ATOM	4953	CG	LEU	520	41.450	92.968	52.583	1.00	0.00	C
ATOM	4954	CD1	LEU	520	42.698	92.830	53.468	1.00	0.00	C
ATOM	4955	CD2	LEU	520	41.813	93.234	51.111	1.00	0.00	C

ATOM	4956	C	LEU	520	39.076	90.327	54.072	1.00	0.00	C
ATOM	4957	O	LEU	520	39.415	89.167	53.846	1.00	0.00	O
ATOM	4958	N	LEU	521	37.790	90.657	54.277	1.00	0.00	N
ATOM	4959	HN	LEU	521	37.528	91.615	54.511	1.00	0.00	H
ATOM	4960	CA	LEU	521	36.794	89.633	54.159	1.00	0.00	C
ATOM	4961	CB	LEU	521	35.881	89.519	55.389	1.00	0.00	C
ATOM	4962	CG	LEU	521	36.626	89.223	56.702	1.00	0.00	C
ATOM	4963	CD1	LEU	521	37.503	90.412	57.129	1.00	0.00	C
ATOM	4964	CD2	LEU	521	35.642	88.779	57.796	1.00	0.00	C
ATOM	4965	C	LEU	521	35.920	90.047	53.014	1.00	0.00	C
ATOM	4966	O	LEU	521	35.194	91.035	53.110	1.00	0.00	O
ATOM	4967	N	ASP	522	35.962	89.303	51.891	1.00	0.00	N
ATOM	4968	HN	ASP	522	36.570	88.485	51.843	1.00	0.00	H
ATOM	4969	CA	ASP	522	35.151	89.663	50.764	1.00	0.00	C
ATOM	4970	CB	ASP	522	35.841	89.334	49.422	1.00	0.00	C
ATOM	4971	CG	ASP	522	35.176	90.115	48.293	1.00	0.00	C
ATOM	4972	OD1	ASP	522	34.154	90.796	48.570	1.00	0.00	O
ATOM	4973	OD2	ASP	522	35.686	90.045	47.143	1.00	0.00	O
ATOM	4974	C	ASP	522	33.893	88.861	50.872	1.00	0.00	C
ATOM	4975	O	ASP	522	33.754	87.805	50.258	1.00	0.00	O
ATOM	4976	N	GLU	523	32.953	89.361	51.695	1.00	0.00	N
ATOM	4977	HN	GLU	523	33.177	90.216	52.204	1.00	0.00	H
ATOM	4978	CA	GLU	523	31.656	88.779	51.910	1.00	0.00	C
ATOM	4979	CB	GLU	523	30.724	88.976	50.693	1.00	0.00	C
ATOM	4980	CG	GLU	523	31.248	88.419	49.368	1.00	0.00	C
ATOM	4981	CD	GLU	523	30.712	89.284	48.236	1.00	0.00	C
ATOM	4982	OE1	GLU	523	30.505	90.501	48.484	1.00	0.00	O
ATOM	4983	OE2	GLU	523	30.519	88.753	47.110	1.00	0.00	O
ATOM	4984	C	GLU	523	31.773	87.341	52.333	1.00	0.00	C
ATOM	4985	O	GLU	523	30.842	86.559	52.137	1.00	0.00	O
ATOM	4986	N	ALA	524	32.846	87.014	53.093	1.00	0.00	N
ATOM	4987	HN	ALA	524	33.422	87.755	53.492	1.00	0.00	H
ATOM	4988	CA	ALA	524	33.186	85.642	53.347	1.00	0.00	C
ATOM	4989	CB	ALA	524	34.346	85.500	54.347	1.00	0.00	C
ATOM	4990	C	ALA	524	32.028	84.850	53.898	1.00	0.00	C
ATOM	4991	O	ALA	524	31.550	83.949	53.221	1.00	0.00	O
ATOM	4992	N	THR	525	31.416	85.241	55.025	1.00	0.00	N
ATOM	4993	HN	THR	525	31.676	86.127	55.458	1.00	0.00	H
ATOM	4994	CA	THR	525	30.396	84.425	55.633	1.00	0.00	C
ATOM	4995	CB	THR	525	29.814	85.087	56.827	1.00	0.00	C
ATOM	4996	OG1	THR	525	30.813	85.269	57.817	1.00	0.00	O
ATOM	4997	HG1	THR	525	31.517	85.819	57.493	1.00	0.00	H
ATOM	4998	CG2	THR	525	28.683	84.204	57.347	1.00	0.00	C
ATOM	4999	C	THR	525	29.252	84.169	54.693	1.00	0.00	C
ATOM	5000	O	THR	525	28.625	83.113	54.764	1.00	0.00	O
ATOM	5001	N	SER	526	28.959	85.118	53.787	1.00	0.00	N
ATOM	5002	HN	SER	526	29.591	85.915	53.713	1.00	0.00	H
ATOM	5003	CA	SER	526	27.812	85.087	52.912	1.00	0.00	C
ATOM	5004	CB	SER	526	27.822	86.214	51.864	1.00	0.00	C
ATOM	5005	OG	SER	526	27.735	87.474	52.513	1.00	0.00	O
ATOM	5006	HG	SER	526	27.741	88.170	51.866	1.00	0.00	H
ATOM	5007	C	SER	526	27.631	83.791	52.191	1.00	0.00	C
ATOM	5008	O	SER	526	28.455	82.882	52.249	1.00	0.00	O
ATOM	5009	N	ALA	527	26.460	83.682	51.523	1.00	0.00	N
ATOM	5010	HN	ALA	527	25.807	84.465	51.562	1.00	0.00	H
ATOM	5011	CA	ALA	527	26.088	82.525	50.764	1.00	0.00	C
ATOM	5012	CB	ALA	527	26.953	82.312	49.511	1.00	0.00	C
ATOM	5013	C	ALA	527	26.245	81.338	51.646	1.00	0.00	C
ATOM	5014	O	ALA	527	26.819	80.330	51.238	1.00	0.00	O
ATOM	5015	N	LEU	528	25.762	81.445	52.899	1.00	0.00	N
ATOM	5016	HN	LEU	528	25.336	82.321	53.201	1.00	0.00	H
ATOM	5017	CA	LEU	528	25.839	80.344	53.814	1.00	0.00	C
ATOM	5018	CB	LEU	528	27.117	80.405	54.666	1.00	0.00	C
ATOM	5019	CG	LEU	528	27.381	79.144	55.500	1.00	0.00	C
ATOM	5020	CD1	LEU	528	27.545	77.904	54.605	1.00	0.00	C
ATOM	5021	CD2	LEU	528	28.572	79.357	56.451	1.00	0.00	C
ATOM	5022	C	LEU	528	24.622	80.468	54.688	1.00	0.00	C
ATOM	5023	O	LEU	528	23.991	81.521	54.718	1.00	0.00	O
ATOM	5024	N	ASP	529	24.235	79.408	55.426	1.00	0.00	N
ATOM	5025	HN	ASP	529	24.790	78.553	55.440	1.00	0.00	H
ATOM	5026	CA	ASP	529	23.019	79.509	56.196	1.00	0.00	C
ATOM	5027	CB	ASP	529	22.503	78.166	56.736	1.00	0.00	C
ATOM	5028	CG	ASP	529	23.536	77.638	57.712	1.00	0.00	C
ATOM	5029	OD1	ASP	529	24.536	77.026	57.252	1.00	0.00	O

ATOM	5030	OD2	ASP	529	23.332	77.837	58.939	1.00	0.00	O
ATOM	5031	C	ASP	529	23.215	80.453	57.360	1.00	0.00	C
ATOM	5032	O	ASP	529	24.345	80.760	57.733	1.00	0.00	O
ATOM	5033	N	THR	530	22.097	80.948	57.953	1.00	0.00	N
ATOM	5034	HN	THR	530	21.194	80.621	57.608	1.00	0.00	H
ATOM	5035	CA	THR	530	22.095	81.907	59.040	1.00	0.00	C
ATOM	5036	CB	THR	530	20.709	82.226	59.500	1.00	0.00	C
ATOM	5037	OG1	THR	530	19.951	82.729	58.411	1.00	0.00	O
ATOM	5038	HG1	THR	530	19.907	82.082	57.717	1.00	0.00	H
ATOM	5039	CG2	THR	530	20.781	83.274	60.624	1.00	0.00	C
ATOM	5040	C	THR	530	22.822	81.312	60.208	1.00	0.00	C
ATOM	5041	O	THR	530	23.754	81.913	60.733	1.00	0.00	O
ATOM	5042	N	GLU	531	22.473	80.076	60.606	1.00	0.00	N
ATOM	5043	HN	GLU	531	21.807	79.535	60.054	1.00	0.00	H
ATOM	5044	CA	GLU	531	23.032	79.512	61.804	1.00	0.00	C
ATOM	5045	CB	GLU	531	22.518	78.078	62.032	1.00	0.00	C
ATOM	5046	CG	GLU	531	23.230	77.316	63.149	1.00	0.00	C
ATOM	5047	CD	GLU	531	24.337	76.497	62.503	1.00	0.00	C
ATOM	5048	OE1	GLU	531	24.422	76.498	61.246	1.00	0.00	O
ATOM	5049	OE2	GLU	531	25.108	75.844	63.255	1.00	0.00	O
ATOM	5050	C	GLU	531	24.525	79.476	61.708	1.00	0.00	C
ATOM	5051	O	GLU	531	25.228	79.966	62.593	1.00	0.00	O
ATOM	5052	N	SER	532	25.051	78.946	60.597	1.00	0.00	N
ATOM	5053	HN	SER	532	24.438	78.632	59.844	1.00	0.00	H
ATOM	5054	CA	SER	532	26.467	78.818	60.461	1.00	0.00	C
ATOM	5055	CB	SER	532	26.851	78.061	59.182	1.00	0.00	C
ATOM	5056	OG	SER	532	26.362	78.770	58.056	1.00	0.00	O
ATOM	5057	HG	SER	532	26.600	78.302	57.264	1.00	0.00	H
ATOM	5058	C	SER	532	27.055	80.182	60.390	1.00	0.00	C
ATOM	5059	O	SER	532	28.064	80.441	61.039	1.00	0.00	O
ATOM	5060	N	LYS	533	26.385	81.112	59.673	1.00	0.00	N
ATOM	5061	HN	LYS	533	25.470	80.884	59.283	1.00	0.00	H
ATOM	5062	CA	LYS	533	26.944	82.415	59.453	1.00	0.00	C
ATOM	5063	CB	LYS	533	26.031	83.381	58.680	1.00	0.00	C
ATOM	5064	CG	LYS	533	24.941	84.045	59.517	1.00	0.00	C
ATOM	5065	CD	LYS	533	24.245	85.188	58.781	1.00	0.00	C
ATOM	5066	CE	LYS	533	23.182	85.908	59.608	1.00	0.00	C
ATOM	5067	NZ	LYS	533	23.827	86.935	60.454	1.00	0.00	N
ATOM	5068	HZ1	LYS	533	23.117	87.416	61.006	1.00	0.00	H
ATOM	5069	HZ2	LYS	533	24.395	87.583	59.908	1.00	0.00	H
ATOM	5070	HZ3	LYS	533	24.569	86.545	61.035	1.00	0.00	H
ATOM	5071	C	LYS	533	27.235	83.012	60.786	1.00	0.00	C
ATOM	5072	O	LYS	533	28.167	83.802	60.934	1.00	0.00	O
ATOM	5073	N	ALA	534	26.424	82.660	61.798	1.00	0.00	N
ATOM	5074	HN	ALA	534	25.619	82.054	61.638	1.00	0.00	H
ATOM	5075	CA	ALA	534	26.720	83.158	63.107	1.00	0.00	C
ATOM	5076	CB	ALA	534	25.656	82.754	64.141	1.00	0.00	C
ATOM	5077	C	ALA	534	28.036	82.598	63.565	1.00	0.00	C
ATOM	5078	O	ALA	534	28.962	83.344	63.878	1.00	0.00	O
ATOM	5079	N	VAL	535	28.190	81.261	63.513	1.00	0.00	N
ATOM	5080	HN	VAL	535	27.446	80.693	63.107	1.00	0.00	H
ATOM	5081	CA	VAL	535	29.371	80.609	64.012	1.00	0.00	C
ATOM	5082	CB	VAL	535	29.309	79.117	63.837	1.00	0.00	C
ATOM	5083	CG1	VAL	535	30.606	78.506	64.393	1.00	0.00	C
ATOM	5084	CG2	VAL	535	28.023	78.587	64.498	1.00	0.00	C
ATOM	5085	C	VAL	535	30.553	81.109	63.242	1.00	0.00	C
ATOM	5086	O	VAL	535	31.608	81.379	63.815	1.00	0.00	O
ATOM	5087	N	VAL	536	30.397	81.245	61.912	1.00	0.00	N
ATOM	5088	HN	VAL	536	29.483	81.047	61.506	1.00	0.00	H
ATOM	5089	CA	VAL	536	31.461	81.656	61.040	1.00	0.00	C
ATOM	5090	CB	VAL	536	31.037	81.677	59.600	1.00	0.00	C
ATOM	5091	CG1	VAL	536	32.195	82.238	58.760	1.00	0.00	C
ATOM	5092	CG2	VAL	536	30.590	80.260	59.197	1.00	0.00	C
ATOM	5093	C	VAL	536	31.890	83.045	61.384	1.00	0.00	C
ATOM	5094	O	VAL	536	33.079	83.321	61.529	1.00	0.00	O
ATOM	5095	N	GLN	537	30.925	83.962	61.551	1.00	0.00	N
ATOM	5096	HN	GLN	537	29.943	83.703	61.456	1.00	0.00	H
ATOM	5097	CA	GLN	537	31.294	85.309	61.864	1.00	0.00	C
ATOM	5098	CB	GLN	537	30.092	86.255	62.030	1.00	0.00	C
ATOM	5099	CG	GLN	537	29.423	86.651	60.714	1.00	0.00	C
ATOM	5100	CD	GLN	537	30.310	87.677	60.016	1.00	0.00	C
ATOM	5101	OE1	GLN	537	30.022	88.108	58.901	1.00	0.00	O
ATOM	5102	NE2	GLN	537	31.416	88.085	60.693	1.00	0.00	N
ATOM	5103	1HE2	GLN	537	31.655	87.727	61.618	1.00	0.00	H

ATOM	5104	2HE2	GLN	537	32.009	88.771	60.226	1.00	0.00	H
ATOM	5105	C	GLN	537	32.003	85.268	63.179	1.00	0.00	C
ATOM	5106	O	GLN	537	32.925	86.044	63.417	1.00	0.00	O
ATOM	5107	N	VAL	538	31.583	84.353	64.073	1.00	0.00	N
ATOM	5108	HN	VAL	538	30.833	83.710	63.820	1.00	0.00	H
ATOM	5109	CA	VAL	538	32.176	84.270	65.377	1.00	0.00	C
ATOM	5110	CB	VAL	538	31.599	83.160	66.206	1.00	0.00	C
ATOM	5111	CG1	VAL	538	32.397	83.060	67.518	1.00	0.00	C
ATOM	5112	CG2	VAL	538	30.099	83.432	66.409	1.00	0.00	C
ATOM	5113	C	VAL	538	33.649	84.016	65.257	1.00	0.00	C
ATOM	5114	O	VAL	538	34.450	84.676	65.915	1.00	0.00	O
ATOM	5115	N	ALA	539	34.050	83.048	64.414	1.00	0.00	N
ATOM	5116	HN	ALA	539	33.349	82.528	63.886	1.00	0.00	H
ATOM	5117	CA	ALA	539	35.439	82.726	64.237	1.00	0.00	C
ATOM	5118	CB	ALA	539	35.653	81.555	63.262	1.00	0.00	C
ATOM	5119	C	ALA	539	36.124	83.918	63.654	1.00	0.00	C
ATOM	5120	O	ALA	539	37.238	84.258	64.049	1.00	0.00	O
ATOM	5121	N	LEU	540	35.462	84.597	62.700	1.00	0.00	N
ATOM	5122	HN	LEU	540	34.526	84.300	62.424	1.00	0.00	H
ATOM	5123	CA	LEU	540	36.062	85.733	62.069	1.00	0.00	C
ATOM	5124	CB	LEU	540	35.136	86.406	61.036	1.00	0.00	C
ATOM	5125	CG	LEU	540	34.916	85.573	59.759	1.00	0.00	C
ATOM	5126	CD1	LEU	540	33.986	86.288	58.764	1.00	0.00	C
ATOM	5127	CD2	LEU	540	36.262	85.194	59.119	1.00	0.00	C
ATOM	5128	C	LEU	540	36.328	86.737	63.136	1.00	0.00	C
ATOM	5129	O	LEU	540	37.428	87.279	63.217	1.00	0.00	O
ATOM	5130	N	ASP	541	35.340	86.961	64.023	1.00	0.00	N
ATOM	5131	HN	ASP	541	34.488	86.402	63.978	1.00	0.00	H
ATOM	5132	CA	ASP	541	35.467	87.973	65.029	1.00	0.00	C
ATOM	5133	CB	ASP	541	34.234	88.082	65.948	1.00	0.00	C
ATOM	5134	CG	ASP	541	33.051	88.631	65.155	1.00	0.00	C
ATOM	5135	OD1	ASP	541	33.124	88.653	63.898	1.00	0.00	O
ATOM	5136	OD2	ASP	541	32.052	89.040	65.806	1.00	0.00	O
ATOM	5137	C	ASP	541	36.645	87.668	65.901	1.00	0.00	C
ATOM	5138	O	ASP	541	37.472	88.536	66.172	1.00	0.00	O
ATOM	5139	N	LYS	542	36.790	86.406	66.331	1.00	0.00	N
ATOM	5140	HN	LYS	542	36.134	85.684	66.033	1.00	0.00	H
ATOM	5141	CA	LYS	542	37.869	86.079	67.210	1.00	0.00	C
ATOM	5142	CB	LYS	542	37.875	84.601	67.636	1.00	0.00	C
ATOM	5143	CG	LYS	542	36.648	84.215	68.468	1.00	0.00	C
ATOM	5144	CD	LYS	542	36.550	82.719	68.775	1.00	0.00	C
ATOM	5145	CE	LYS	542	36.412	81.834	67.535	1.00	0.00	C
ATOM	5146	NZ	LYS	542	35.022	81.875	67.029	1.00	0.00	N
ATOM	5147	HZ1	LYS	542	34.930	81.285	66.202	1.00	0.00	H
ATOM	5148	HZ2	LYS	542	34.709	82.830	66.852	1.00	0.00	H
ATOM	5149	HZ3	LYS	542	34.346	81.626	67.751	1.00	0.00	H
ATOM	5150	C	LYS	542	39.149	86.378	66.495	1.00	0.00	C
ATOM	5151	O	LYS	542	40.166	86.645	67.127	1.00	0.00	O
ATOM	5152	N	ALA	543	39.160	86.222	65.159	1.00	0.00	N
ATOM	5153	HN	ALA	543	38.305	85.922	64.690	1.00	0.00	H
ATOM	5154	CA	ALA	543	40.339	86.465	64.370	1.00	0.00	C
ATOM	5155	CB	ALA	543	40.235	85.845	62.968	1.00	0.00	C
ATOM	5156	C	ALA	543	40.726	87.909	64.162	1.00	0.00	C
ATOM	5157	O	ALA	543	41.884	88.273	64.359	1.00	0.00	O
ATOM	5158	N	ARG	544	39.751	88.755	63.760	1.00	0.00	N
ATOM	5159	HN	ARG	544	38.787	88.433	63.848	1.00	0.00	H
ATOM	5160	CA	ARG	544	39.960	90.076	63.216	1.00	0.00	C
ATOM	5161	CB	ARG	544	38.676	90.681	62.621	1.00	0.00	C
ATOM	5162	CG	ARG	544	38.021	89.853	61.516	1.00	0.00	C
ATOM	5163	CD	ARG	544	36.943	90.632	60.758	1.00	0.00	C
ATOM	5164	NE	ARG	544	36.014	91.227	61.763	1.00	0.00	N
ATOM	5165	HE	ARG	544	36.221	92.143	62.161	1.00	0.00	H
ATOM	5166	CZ	ARG	544	34.891	90.559	62.155	1.00	0.00	C
ATOM	5167	NH1	ARG	544	34.627	89.316	61.657	1.00	0.00	N
ATOM	5168	1HH1	ARG	544	35.265	88.891	60.985	1.00	0.00	H
ATOM	5169	2HH1	ARG	544	33.787	88.817	61.950	1.00	0.00	H
ATOM	5170	NH2	ARG	544	34.036	91.129	63.056	1.00	0.00	N
ATOM	5171	1HH2	ARG	544	34.233	92.058	63.428	1.00	0.00	H
ATOM	5172	2HH2	ARG	544	33.196	90.630	63.349	1.00	0.00	H
ATOM	5173	C	ARG	544	40.496	91.141	64.109	1.00	0.00	C
ATOM	5174	O	ARG	544	41.427	91.803	63.686	1.00	0.00	O
ATOM	5175	N	LYS	545	40.000	91.336	65.344	1.00	0.00	N
ATOM	5176	HN	LYS	545	39.386	90.635	65.760	1.00	0.00	H
ATOM	5177	CA	LYS	545	40.331	92.532	66.086	1.00	0.00	C

ATOM	5178	CB	LYS	545	39.727	92.547	67.502	1.00	0.00	C
ATOM	5179	CG	LYS	545	38.204	92.719	67.542	1.00	0.00	C
ATOM	5180	CD	LYS	545	37.425	91.535	66.964	1.00	0.00	C
ATOM	5181	CE	LYS	545	35.911	91.632	67.174	1.00	0.00	C
ATOM	5182	NZ	LYS	545	35.373	92.818	66.472	1.00	0.00	N
ATOM	5183	HZ1	LYS	545	34.365	92.883	66.612	1.00	0.00	H
ATOM	5184	HZ2	LYS	545	35.621	92.821	65.483	1.00	0.00	H
ATOM	5185	HZ3	LYS	545	35.852	93.675	66.749	1.00	0.00	H
ATOM	5186	C	LYS	545	41.809	92.694	66.238	1.00	0.00	C
ATOM	5187	O	LYS	545	42.323	93.803	66.099	1.00	0.00	O
ATOM	5188	N	GLY	546	42.535	91.587	66.467	1.00	0.00	N
ATOM	5189	HN	GLY	546	42.069	90.680	66.491	1.00	0.00	H
ATOM	5190	CA	GLY	546	43.950	91.656	66.678	1.00	0.00	C
ATOM	5191	C	GLY	546	44.546	92.340	65.488	1.00	0.00	C
ATOM	5192	O	GLY	546	45.548	93.044	65.601	1.00	0.00	O
ATOM	5193	N	ARG	547	43.923	92.142	64.312	1.00	0.00	N
ATOM	5194	HN	ARG	547	43.065	91.590	64.305	1.00	0.00	H
ATOM	5195	CA	ARG	547	44.406	92.669	63.064	1.00	0.00	C
ATOM	5196	CB	ARG	547	44.471	91.578	61.980	1.00	0.00	C
ATOM	5197	CG	ARG	547	45.591	90.559	62.218	1.00	0.00	C
ATOM	5198	CD	ARG	547	45.511	89.300	61.349	1.00	0.00	C
ATOM	5199	NE	ARG	547	44.714	88.269	62.075	1.00	0.00	N
ATOM	5200	HE	ARG	547	43.714	88.173	61.900	1.00	0.00	H
ATOM	5201	CZ	ARG	547	45.338	87.455	62.976	1.00	0.00	C
ATOM	5202	NH1	ARG	547	46.644	87.678	63.298	1.00	0.00	N
ATOM	5203	1HH1	ARG	547	47.110	87.070	63.971	1.00	0.00	H
ATOM	5204	2HH1	ARG	547	47.146	88.453	62.866	1.00	0.00	H
ATOM	5205	NH2	ARG	547	44.665	86.416	63.555	1.00	0.00	N
ATOM	5206	1HH2	ARG	547	45.131	85.808	64.228	1.00	0.00	H
ATOM	5207	2HH2	ARG	547	43.688	86.249	63.314	1.00	0.00	H
ATOM	5208	C	ARG	547	43.541	93.798	62.530	1.00	0.00	C
ATOM	5209	O	ARG	547	42.338	93.891	62.745	1.00	0.00	O
ATOM	5210	N	THR	548	44.129	94.760	61.805	1.00	0.00	N
ATOM	5211	HN	THR	548	45.137	94.787	61.654	1.00	0.00	H
ATOM	5212	CA	THR	548	43.244	95.751	61.254	1.00	0.00	C
ATOM	5213	CB	THR	548	43.948	97.007	60.818	1.00	0.00	C
ATOM	5214	OG1	THR	548	43.022	97.944	60.289	1.00	0.00	O
ATOM	5215	HG1	THR	548	42.363	98.171	60.935	1.00	0.00	H
ATOM	5216	CG2	THR	548	45.011	96.641	59.775	1.00	0.00	C
ATOM	5217	C	THR	548	42.563	95.118	60.070	1.00	0.00	C
ATOM	5218	O	THR	548	43.236	94.496	59.247	1.00	0.00	O
ATOM	5219	N	THR	549	41.210	95.234	59.945	1.00	0.00	N
ATOM	5220	HN	THR	549	40.654	95.791	60.594	1.00	0.00	H
ATOM	5221	CA	THR	549	40.609	94.521	58.839	1.00	0.00	C
ATOM	5222	CB	THR	549	39.911	93.236	59.195	1.00	0.00	C
ATOM	5223	OG1	THR	549	38.671	93.500	59.833	1.00	0.00	O
ATOM	5224	HG1	THR	549	38.115	94.004	59.250	1.00	0.00	H
ATOM	5225	CG2	THR	549	40.808	92.422	60.136	1.00	0.00	C
ATOM	5226	C	THR	549	39.564	95.297	58.086	1.00	0.00	C
ATOM	5227	O	THR	549	38.664	95.927	58.642	1.00	0.00	O
ATOM	5228	N	ILE	550	39.620	95.178	56.748	1.00	0.00	N
ATOM	5229	HN	ILE	550	40.360	94.615	56.329	1.00	0.00	H
ATOM	5230	CA	ILE	550	38.665	95.823	55.895	1.00	0.00	C
ATOM	5231	CB	ILE	550	39.355	96.508	54.743	1.00	0.00	C
ATOM	5232	CG1	ILE	550	38.385	97.283	53.840	1.00	0.00	C
ATOM	5233	CG2	ILE	550	40.175	95.441	53.998	1.00	0.00	C
ATOM	5234	CD1	ILE	550	37.528	96.380	52.956	1.00	0.00	C
ATOM	5235	C	ILE	550	37.724	94.756	55.402	1.00	0.00	C
ATOM	5236	O	ILE	550	38.145	93.775	54.790	1.00	0.00	O
ATOM	5237	N	VAL	551	36.407	94.909	55.686	1.00	0.00	N
ATOM	5238	HN	VAL	551	36.091	95.738	56.190	1.00	0.00	H
ATOM	5239	CA	VAL	551	35.450	93.909	55.281	1.00	0.00	C
ATOM	5240	CB	VAL	551	34.737	93.260	56.431	1.00	0.00	C
ATOM	5241	CG1	VAL	551	33.924	94.328	57.183	1.00	0.00	C
ATOM	5242	CG2	VAL	551	33.875	92.117	55.871	1.00	0.00	C
ATOM	5243	C	VAL	551	34.389	94.517	54.408	1.00	0.00	C
ATOM	5244	O	VAL	551	33.823	95.565	54.715	1.00	0.00	O
ATOM	5245	N	ILE	552	34.083	93.838	53.282	1.00	0.00	N
ATOM	5246	HN	ILE	552	34.589	92.977	53.076	1.00	0.00	H
ATOM	5247	CA	ILE	552	33.069	94.283	52.361	1.00	0.00	C
ATOM	5248	CB	ILE	552	33.611	94.480	50.967	1.00	0.00	C
ATOM	5249	CG1	ILE	552	32.569	95.075	50.000	1.00	0.00	C
ATOM	5250	CG2	ILE	552	34.184	93.132	50.501	1.00	0.00	C
ATOM	5251	CD1	ILE	552	31.453	94.109	49.600	1.00	0.00	C

ATOM	5252	C	ILE	552	32.031	93.214	52.346	1.00	0.00	C
ATOM	5253	O	ILE	552	32.344	92.034	52.212	1.00	0.00	O
ATOM	5254	N	ALA	553	30.746	93.571	52.519	1.00	0.00	N
ATOM	5255	HN	ALA	553	30.442	94.537	52.638	1.00	0.00	H
ATOM	5256	CA	ALA	553	29.851	92.459	52.519	1.00	0.00	C
ATOM	5257	CB	ALA	553	29.989	91.564	53.763	1.00	0.00	C
ATOM	5258	C	ALA	553	28.427	92.893	52.446	1.00	0.00	C
ATOM	5259	O	ALA	553	28.086	94.074	52.520	1.00	0.00	O
ATOM	5260	N	HIS	554	27.583	91.891	52.152	1.00	0.00	N
ATOM	5261	HN	HIS	554	28.002	90.980	51.964	1.00	0.00	H
ATOM	5262	CA	HIS	554	26.164	91.969	52.076	1.00	0.00	C
ATOM	5263	ND1	HIS	554	25.550	91.973	48.856	1.00	0.00	N
ATOM	5264	HD1	HIS	554	24.771	92.613	49.015	1.00	0.00	H
ATOM	5265	CG	HIS	554	26.068	91.066	49.756	1.00	0.00	C
ATOM	5266	CB	HIS	554	25.568	90.899	51.154	1.00	0.00	C
ATOM	5267	NE2	HIS	554	27.223	90.932	47.824	1.00	0.00	N
ATOM	5268	HE2	HIS	554	27.901	90.650	47.116	1.00	0.00	H
ATOM	5269	CD2	HIS	554	27.086	90.441	49.110	1.00	0.00	C
ATOM	5270	CE1	HIS	554	26.277	91.849	47.719	1.00	0.00	C
ATOM	5271	C	HIS	554	25.457	91.858	53.407	1.00	0.00	C
ATOM	5272	O	HIS	554	24.389	92.437	53.576	1.00	0.00	O
ATOM	5273	N	ARG	555	25.996	91.110	54.391	1.00	0.00	N
ATOM	5274	HN	ARG	555	26.951	90.763	54.306	1.00	0.00	H
ATOM	5275	CA	ARG	555	25.215	90.804	55.563	1.00	0.00	C
ATOM	5276	CB	ARG	555	25.889	89.759	56.470	1.00	0.00	C
ATOM	5277	CG	ARG	555	26.384	88.502	55.746	1.00	0.00	C
ATOM	5278	CD	ARG	555	25.298	87.502	55.347	1.00	0.00	C
ATOM	5279	NE	ARG	555	24.948	87.762	53.922	1.00	0.00	N
ATOM	5280	HE	ARG	555	25.537	87.390	53.177	1.00	0.00	H
ATOM	5281	CZ	ARG	555	23.841	88.496	53.612	1.00	0.00	C
ATOM	5282	NH1	ARG	555	23.038	88.965	54.611	1.00	0.00	N
ATOM	5283	1HH1	ARG	555	22.210	89.514	54.379	1.00	0.00	H
ATOM	5284	2HH1	ARG	555	23.271	88.779	55.586	1.00	0.00	H
ATOM	5285	NH2	ARG	555	23.529	88.745	52.306	1.00	0.00	N
ATOM	5286	1HH2	ARG	555	22.701	89.294	52.074	1.00	0.00	H
ATOM	5287	2HH2	ARG	555	24.129	88.394	51.559	1.00	0.00	H
ATOM	5288	C	ARG	555	25.085	92.026	56.375	1.00	0.00	C
ATOM	5289	O	ARG	555	25.890	92.295	57.262	1.00	0.00	O
ATOM	5290	N	LEU	556	23.987	92.747	56.147	1.00	0.00	N
ATOM	5291	HN	LEU	556	23.299	92.425	55.466	1.00	0.00	H
ATOM	5292	CA	LEU	556	23.772	93.966	56.851	1.00	0.00	C
ATOM	5293	CB	LEU	556	22.419	94.634	56.553	1.00	0.00	C
ATOM	5294	CG	LEU	556	22.267	95.164	55.117	1.00	0.00	C
ATOM	5295	CD1	LEU	556	23.324	96.233	54.797	1.00	0.00	C
ATOM	5296	CD2	LEU	556	22.222	94.021	54.098	1.00	0.00	C
ATOM	5297	C	LEU	556	23.753	93.614	58.293	1.00	0.00	C
ATOM	5298	O	LEU	556	24.225	94.378	59.128	1.00	0.00	O
ATOM	5299	N	SER	557	23.240	92.417	58.618	1.00	0.00	N
ATOM	5300	HN	SER	557	22.903	91.781	57.895	1.00	0.00	H
ATOM	5301	CA	SER	557	23.176	92.052	60.005	1.00	0.00	C
ATOM	5302	CB	SER	557	22.597	90.641	60.230	1.00	0.00	C
ATOM	5303	OG	SER	557	23.462	89.649	59.697	1.00	0.00	O
ATOM	5304	HG	SER	557	23.105	88.780	59.836	1.00	0.00	H
ATOM	5305	C	SER	557	24.561	92.090	60.608	1.00	0.00	C
ATOM	5306	O	SER	557	24.748	92.626	61.698	1.00	0.00	O
ATOM	5307	N	THR	558	25.561	91.505	59.917	1.00	0.00	N
ATOM	5308	HN	THR	558	25.324	91.100	59.011	1.00	0.00	H
ATOM	5309	CA	THR	558	26.938	91.400	60.345	1.00	0.00	C
ATOM	5310	CB	THR	558	27.697	90.341	59.606	1.00	0.00	C
ATOM	5311	OG1	THR	558	27.857	90.708	58.244	1.00	0.00	O
ATOM	5312	HG1	THR	558	28.344	91.521	58.174	1.00	0.00	H
ATOM	5313	CG2	THR	558	26.908	89.023	59.719	1.00	0.00	C
ATOM	5314	C	THR	558	27.680	92.680	60.155	1.00	0.00	C
ATOM	5315	O	THR	558	28.820	92.822	60.595	1.00	0.00	O
ATOM	5316	N	VAL	559	27.114	93.583	59.347	1.00	0.00	N
ATOM	5317	HN	VAL	559	26.215	93.372	58.915	1.00	0.00	H
ATOM	5318	CA	VAL	559	27.741	94.835	59.077	1.00	0.00	C
ATOM	5319	CB	VAL	559	27.014	95.621	58.029	1.00	0.00	C
ATOM	5320	CG1	VAL	559	27.716	96.976	57.843	1.00	0.00	C
ATOM	5321	CG2	VAL	559	26.955	94.772	56.747	1.00	0.00	C
ATOM	5322	C	VAL	559	27.754	95.640	60.325	1.00	0.00	C
ATOM	5323	O	VAL	559	28.729	96.323	60.634	1.00	0.00	O
ATOM	5324	N	ARG	560	26.696	95.460	61.127	1.00	0.00	N
ATOM	5325	HN	ARG	560	26.086	94.666	60.931	1.00	0.00	H



ATOM	5326	CA	ARG	560	26.357	96.294	62.234	1.00	0.00	C
ATOM	5327	CB	ARG	560	25.331	95.568	63.123	1.00	0.00	C
ATOM	5328	CG	ARG	560	24.692	96.404	64.227	1.00	0.00	C
ATOM	5329	CD	ARG	560	23.731	97.452	63.675	1.00	0.00	C
ATOM	5330	NE	ARG	560	23.285	96.983	62.330	1.00	0.00	N
ATOM	5331	HE	ARG	560	23.814	97.255	61.502	1.00	0.00	H
ATOM	5332	CZ	ARG	560	22.178	96.194	62.193	1.00	0.00	C
ATOM	5333	NH1	ARG	560	21.474	95.806	63.296	1.00	0.00	N
ATOM	5334	1HH1	ARG	560	21.776	96.100	64.225	1.00	0.00	H
ATOM	5335	2HH1	ARG	560	20.648	95.217	63.194	1.00	0.00	H
ATOM	5336	NH2	ARG	560	21.774	95.800	60.950	1.00	0.00	N
ATOM	5337	1HH2	ARG	560	22.300	96.090	60.126	1.00	0.00	H
ATOM	5338	2HH2	ARG	560	20.948	95.211	60.848	1.00	0.00	H
ATOM	5339	C	ARG	560	27.574	96.586	63.085	1.00	0.00	C
ATOM	5340	O	ARG	560	27.924	97.750	63.281	1.00	0.00	O
ATOM	5341	N	ASN	561	28.313	95.565	63.556	1.00	0.00	N
ATOM	5342	HN	ASN	561	28.092	94.600	63.311	1.00	0.00	H
ATOM	5343	CA	ASN	561	29.425	95.875	64.415	1.00	0.00	C
ATOM	5344	CB	ASN	561	29.822	94.675	65.287	1.00	0.00	C
ATOM	5345	CG	ASN	561	30.125	93.513	64.350	1.00	0.00	C
ATOM	5346	OD1	ASN	561	29.294	93.130	63.528	1.00	0.00	O
ATOM	5347	ND2	ASN	561	31.349	92.937	64.472	1.00	0.00	N
ATOM	5348	1HD2	ASN	561	32.038	93.255	65.154	1.00	0.00	H
ATOM	5349	2HD2	ASN	561	31.552	92.159	63.845	1.00	0.00	H
ATOM	5350	C	ASN	561	30.621	96.294	63.608	1.00	0.00	C
ATOM	5351	O	ASN	561	31.700	95.708	63.701	1.00	0.00	O
ATOM	5352	N	ALA	562	30.479	97.386	62.838	1.00	0.00	N
ATOM	5353	HN	ALA	562	29.582	97.870	62.796	1.00	0.00	H
ATOM	5354	CA	ALA	562	31.589	97.866	62.078	1.00	0.00	C
ATOM	5355	CB	ALA	562	31.225	98.202	60.629	1.00	0.00	C
ATOM	5356	C	ALA	562	32.038	99.117	62.749	1.00	0.00	C
ATOM	5357	O	ALA	562	31.219	99.932	63.175	1.00	0.00	O
ATOM	5358	N	ASP	563	33.369	99.286	62.873	1.00	0.00	N
ATOM	5359	HN	ASP	563	34.006	98.571	62.522	1.00	0.00	H
ATOM	5360	CA	ASP	563	33.893	100.464	63.495	1.00	0.00	C
ATOM	5361	CB	ASP	563	35.433	100.510	63.518	1.00	0.00	C
ATOM	5362	CG	ASP	563	35.946	99.460	64.493	1.00	0.00	C
ATOM	5363	OD1	ASP	563	35.866	98.249	64.161	1.00	0.00	O
ATOM	5364	OD2	ASP	563	36.430	99.860	65.586	1.00	0.00	O
ATOM	5365	C	ASP	563	33.429	101.603	62.650	1.00	0.00	C
ATOM	5366	O	ASP	563	33.119	102.682	63.153	1.00	0.00	O
ATOM	5367	N	VAL	564	33.385	101.379	61.325	1.00	0.00	N
ATOM	5368	HN	VAL	564	33.665	100.464	60.971	1.00	0.00	H
ATOM	5369	CA	VAL	564	32.959	102.380	60.392	1.00	0.00	C
ATOM	5370	CB	VAL	564	34.109	103.253	59.973	1.00	0.00	C
ATOM	5371	CG1	VAL	564	35.279	102.343	59.560	1.00	0.00	C
ATOM	5372	CG2	VAL	564	33.657	104.207	58.856	1.00	0.00	C
ATOM	5373	C	VAL	564	32.413	101.678	59.181	1.00	0.00	C
ATOM	5374	O	VAL	564	32.733	100.514	58.936	1.00	0.00	O
ATOM	5375	N	ILE	565	31.561	102.388	58.405	1.00	0.00	N
ATOM	5376	HN	ILE	565	31.360	103.352	58.671	1.00	0.00	H
ATOM	5377	CA	ILE	565	30.922	101.864	57.227	1.00	0.00	C
ATOM	5378	CB	ILE	565	29.429	101.876	57.346	1.00	0.00	C
ATOM	5379	CG1	ILE	565	28.961	101.340	58.710	1.00	0.00	C
ATOM	5380	CG2	ILE	565	28.877	101.110	56.134	1.00	0.00	C
ATOM	5381	CD1	ILE	565	29.479	99.956	59.052	1.00	0.00	C
ATOM	5382	C	ILE	565	31.179	102.868	56.139	1.00	0.00	C
ATOM	5383	O	ILE	565	31.370	104.049	56.423	1.00	0.00	O
ATOM	5384	N	ALA	566	31.205	102.425	54.862	1.00	0.00	N
ATOM	5385	HN	ALA	566	31.098	101.429	54.670	1.00	0.00	H
ATOM	5386	CA	ALA	566	31.382	103.347	53.772	1.00	0.00	C
ATOM	5387	CB	ALA	566	32.791	103.309	53.158	1.00	0.00	C
ATOM	5388	C	ALA	566	30.410	102.976	52.681	1.00	0.00	C
ATOM	5389	O	ALA	566	30.115	101.802	52.452	1.00	0.00	O
ATOM	5390	N	GLY	567	29.905	103.986	51.941	1.00	0.00	N
ATOM	5391	HN	GLY	567	30.238	104.940	52.080	1.00	0.00	H
ATOM	5392	CA	GLY	567	28.897	103.708	50.958	1.00	0.00	C
ATOM	5393	C	GLY	567	29.508	103.603	49.610	1.00	0.00	C
ATOM	5394	O	GLY	567	30.125	104.536	49.105	1.00	0.00	O
ATOM	5395	N	PHE	568	29.302	102.432	48.989	1.00	0.00	N
ATOM	5396	HN	PHE	568	28.782	101.716	49.496	1.00	0.00	H
ATOM	5397	CA	PHE	568	29.755	102.111	47.673	1.00	0.00	C
ATOM	5398	CB	PHE	568	30.903	101.079	47.602	1.00	0.00	C
ATOM	5399	CG	PHE	568	32.197	101.674	48.059	1.00	0.00	C

ATOM	5400	CD1	PHE	568	32.872	102.568	47.259	1.00	0.00	C
ATOM	5401	CD2	PHE	568	32.761	101.314	49.263	1.00	0.00	C
ATOM	5402	CE1	PHE	568	34.068	103.115	47.662	1.00	0.00	C
ATOM	5403	CE2	PHE	568	33.958	101.857	49.673	1.00	0.00	C
ATOM	5404	CZ	PHE	568	34.613	102.763	48.874	1.00	0.00	C
ATOM	5405	C	PHE	568	28.587	101.478	46.994	1.00	0.00	C
ATOM	5406	O	PHE	568	27.547	101.235	47.604	1.00	0.00	O
ATOM	5407	N	ASP	569	28.727	101.256	45.678	1.00	0.00	N
ATOM	5408	HN	ASP	569	29.589	101.552	45.220	1.00	0.00	H
ATOM	5409	CA	ASP	569	27.715	100.620	44.892	1.00	0.00	C
ATOM	5410	CB	ASP	569	26.312	101.204	45.124	1.00	0.00	C
ATOM	5411	CG	ASP	569	25.288	100.217	44.582	1.00	0.00	C
ATOM	5412	OD1	ASP	569	25.361	99.020	44.971	1.00	0.00	O
ATOM	5413	OD2	ASP	569	24.426	100.639	43.766	1.00	0.00	O
ATOM	5414	C	ASP	569	28.096	100.933	43.484	1.00	0.00	C
ATOM	5415	O	ASP	569	27.528	101.822	42.852	1.00	0.00	O
ATOM	5416	N	ASP	570	29.000	100.127	42.915	1.00	0.00	N
ATOM	5417	HN	ASP	570	29.312	99.291	43.410	1.00	0.00	H
ATOM	5418	CA	ASP	570	29.537	100.424	41.616	1.00	0.00	C
ATOM	5419	CB	ASP	570	28.491	100.551	40.497	1.00	0.00	C
ATOM	5420	CG	ASP	570	29.165	100.363	39.140	1.00	0.00	C
ATOM	5421	OD1	ASP	570	29.983	101.229	38.734	1.00	0.00	O
ATOM	5422	OD2	ASP	570	28.850	99.335	38.481	1.00	0.00	O
ATOM	5423	C	ASP	570	30.327	101.700	41.591	1.00	0.00	C
ATOM	5424	O	ASP	570	29.995	102.621	40.851	1.00	0.00	O
ATOM	5425	N	GLY	571	31.395	101.795	42.410	1.00	0.00	N
ATOM	5426	HN	GLY	571	31.572	101.056	43.091	1.00	0.00	H
ATOM	5427	CA	GLY	571	32.287	102.920	42.339	1.00	0.00	C
ATOM	5428	C	GLY	571	31.656	104.224	42.771	1.00	0.00	C
ATOM	5429	O	GLY	571	31.560	105.139	41.957	1.00	0.00	O
ATOM	5430	N	VAL	572	31.149	104.355	44.021	1.00	0.00	N
ATOM	5431	HN	VAL	572	31.076	103.546	44.638	1.00	0.00	H
ATOM	5432	CA	VAL	572	30.712	105.663	44.467	1.00	0.00	C
ATOM	5433	CB	VAL	572	29.320	106.025	44.006	1.00	0.00	C
ATOM	5434	CG1	VAL	572	28.314	104.952	44.462	1.00	0.00	C
ATOM	5435	CG2	VAL	572	28.999	107.440	44.515	1.00	0.00	C
ATOM	5436	C	VAL	572	30.773	105.719	45.973	1.00	0.00	C
ATOM	5437	O	VAL	572	30.015	105.012	46.630	1.00	0.00	O
ATOM	5438	N	ILE	573	31.627	106.605	46.560	1.00	0.00	N
ATOM	5439	HN	ILE	573	32.144	107.259	45.972	1.00	0.00	H
ATOM	5440	CA	ILE	573	31.822	106.645	47.997	1.00	0.00	C
ATOM	5441	CB	ILE	573	33.292	106.714	48.351	1.00	0.00	C
ATOM	5442	CG1	ILE	573	33.552	106.697	49.871	1.00	0.00	C
ATOM	5443	CG2	ILE	573	33.901	107.918	47.613	1.00	0.00	C
ATOM	5444	CD1	ILE	573	33.221	108.003	50.590	1.00	0.00	C
ATOM	5445	C	ILE	573	31.081	107.816	48.591	1.00	0.00	C
ATOM	5446	O	ILE	573	31.531	108.955	48.505	1.00	0.00	O
ATOM	5447	N	VAL	574	29.839	107.593	49.073	1.00	0.00	N
ATOM	5448	HN	VAL	574	29.429	106.663	48.986	1.00	0.00	H
ATOM	5449	CA	VAL	574	29.081	108.642	49.707	1.00	0.00	C
ATOM	5450	CB	VAL	574	27.645	108.585	49.270	1.00	0.00	C
ATOM	5451	CG1	VAL	574	27.609	108.920	47.770	1.00	0.00	C
ATOM	5452	CG2	VAL	574	27.077	107.185	49.571	1.00	0.00	C
ATOM	5453	C	VAL	574	29.107	108.783	51.215	1.00	0.00	C
ATOM	5454	O	VAL	574	29.730	109.691	51.767	1.00	0.00	O
ATOM	5455	N	GLU	575	28.491	107.805	51.926	1.00	0.00	N
ATOM	5456	HN	GLU	575	28.243	106.932	51.460	1.00	0.00	H
ATOM	5457	CA	GLU	575	28.179	107.970	53.325	1.00	0.00	C
ATOM	5458	CB	GLU	575	26.725	107.605	53.639	1.00	0.00	C
ATOM	5459	CG	GLU	575	26.392	106.180	53.214	1.00	0.00	C
ATOM	5460	CD	GLU	575	24.904	105.979	53.400	1.00	0.00	C
ATOM	5461	OE1	GLU	575	24.160	106.994	53.445	1.00	0.00	O
ATOM	5462	OE2	GLU	575	24.490	104.798	53.499	1.00	0.00	O
ATOM	5463	C	GLU	575	29.068	107.128	54.173	1.00	0.00	C
ATOM	5464	O	GLU	575	29.043	105.901	54.102	1.00	0.00	O
ATOM	5465	N	LYS	576	29.847	107.805	55.039	1.00	0.00	N
ATOM	5466	HN	LYS	576	29.759	108.820	55.081	1.00	0.00	H
ATOM	5467	CA	LYS	576	30.792	107.165	55.902	1.00	0.00	C
ATOM	5468	CB	LYS	576	32.159	107.866	55.870	1.00	0.00	C
ATOM	5469	CG	LYS	576	32.830	107.860	54.496	1.00	0.00	C
ATOM	5470	CD	LYS	576	33.921	108.922	54.360	1.00	0.00	C
ATOM	5471	CE	LYS	576	34.808	109.035	55.600	1.00	0.00	C
ATOM	5472	NZ	LYS	576	34.142	109.871	56.624	1.00	0.00	N
ATOM	5473	HZ1	LYS	576	34.734	109.946	57.451	1.00	0.00	H

ATOM	5474	HZ2	LYS	576	33.209	109.527	56.851	1.00	0.00	H
ATOM	5475	HZ3	LYS	576	33.878	110.786	56.258	1.00	0.00	H
ATOM	5476	C	LYS	576	30.269	107.326	57.290	1.00	0.00	C
ATOM	5477	O	LYS	576	29.608	108.318	57.592	1.00	0.00	O
ATOM	5478	N	GLY	577	30.523	106.343	58.175	1.00	0.00	N
ATOM	5479	HN	GLY	577	31.009	105.489	57.900	1.00	0.00	H
ATOM	5480	CA	GLY	577	30.080	106.552	59.515	1.00	0.00	C
ATOM	5481	C	GLY	577	29.464	105.310	60.058	1.00	0.00	C
ATOM	5482	O	GLY	577	29.441	104.260	59.416	1.00	0.00	O
ATOM	5483	N	ASN	578	28.914	105.444	61.278	1.00	0.00	N
ATOM	5484	HN	ASN	578	28.903	106.372	61.700	1.00	0.00	H
ATOM	5485	CA	ASN	578	28.344	104.362	62.017	1.00	0.00	C
ATOM	5486	CB	ASN	578	28.099	104.728	63.493	1.00	0.00	C
ATOM	5487	CG	ASN	578	27.730	103.462	64.248	1.00	0.00	C
ATOM	5488	OD1	ASN	578	28.514	102.517	64.320	1.00	0.00	O
ATOM	5489	ND2	ASN	578	26.500	103.437	64.827	1.00	0.00	N
ATOM	5490	1HD2	ASN	578	26.252	102.587	65.334	1.00	0.00	H
ATOM	5491	2HD2	ASN	578	25.850	104.221	64.767	1.00	0.00	H
ATOM	5492	C	ASN	578	27.040	103.954	61.397	1.00	0.00	C
ATOM	5493	O	ASN	578	26.435	104.681	60.611	1.00	0.00	O
ATOM	5494	N	HIS	579	26.576	102.747	61.774	1.00	0.00	N
ATOM	5495	HN	HIS	579	27.077	102.262	62.518	1.00	0.00	H
ATOM	5496	CA	HIS	579	25.428	102.087	61.209	1.00	0.00	C
ATOM	5497	ND1	HIS	579	23.793	99.509	60.128	1.00	0.00	N
ATOM	5498	HD1	HIS	579	24.491	99.482	59.385	1.00	0.00	H
ATOM	5499	CG	HIS	579	23.951	100.043	61.382	1.00	0.00	C
ATOM	5500	CB	HIS	579	25.196	100.716	61.866	1.00	0.00	C
ATOM	5501	NE2	HIS	579	21.867	99.208	61.197	1.00	0.00	N
ATOM	5502	HE2	HIS	579	20.907	98.938	61.410	1.00	0.00	H
ATOM	5503	CD2	HIS	579	22.767	99.850	62.027	1.00	0.00	C
ATOM	5504	CE1	HIS	579	22.524	99.022	60.069	1.00	0.00	C
ATOM	5505	C	HIS	579	24.165	102.869	61.330	1.00	0.00	C
ATOM	5506	O	HIS	579	23.518	103.150	60.320	1.00	0.00	O
ATOM	5507	N	ASP	580	23.816	103.287	62.556	1.00	0.00	N
ATOM	5508	HN	ASP	580	24.448	103.111	63.337	1.00	0.00	H
ATOM	5509	CA	ASP	580	22.585	103.972	62.802	1.00	0.00	C
ATOM	5510	CB	ASP	580	22.465	104.429	64.264	1.00	0.00	C
ATOM	5511	CG	ASP	580	22.417	103.195	65.153	1.00	0.00	C
ATOM	5512	OD1	ASP	580	22.696	102.075	64.645	1.00	0.00	O
ATOM	5513	OD2	ASP	580	22.096	103.361	66.360	1.00	0.00	O
ATOM	5514	C	ASP	580	22.634	105.197	61.968	1.00	0.00	C
ATOM	5515	O	ASP	580	21.601	105.730	61.567	1.00	0.00	O
ATOM	5516	N	GLU	581	23.856	105.697	61.729	1.00	0.00	N
ATOM	5517	HN	GLU	581	24.678	105.216	62.094	1.00	0.00	H
ATOM	5518	CA	GLU	581	24.019	106.896	60.968	1.00	0.00	C
ATOM	5519	CB	GLU	581	25.491	107.338	60.903	1.00	0.00	C
ATOM	5520	CG	GLU	581	26.100	107.575	62.288	1.00	0.00	C
ATOM	5521	CD	GLU	581	27.515	108.112	62.125	1.00	0.00	C
ATOM	5522	OE1	GLU	581	27.723	108.977	61.232	1.00	0.00	O
ATOM	5523	OE2	GLU	581	28.406	107.664	62.896	1.00	0.00	O
ATOM	5524	C	GLU	581	23.567	106.673	59.554	1.00	0.00	C
ATOM	5525	O	GLU	581	22.817	107.476	59.004	1.00	0.00	O
ATOM	5526	N	LEU	582	24.022	105.576	58.918	1.00	0.00	N
ATOM	5527	HN	LEU	582	24.613	104.917	59.424	1.00	0.00	H
ATOM	5528	CA	LEU	582	23.694	105.311	57.539	1.00	0.00	C
ATOM	5529	CB	LEU	582	24.554	104.208	56.901	1.00	0.00	C
ATOM	5530	CG	LEU	582	26.008	104.624	56.614	1.00	0.00	C
ATOM	5531	CD1	LEU	582	26.806	104.872	57.901	1.00	0.00	C
ATOM	5532	CD2	LEU	582	26.680	103.619	55.666	1.00	0.00	C
ATOM	5533	C	LEU	582	22.258	104.925	57.347	1.00	0.00	C
ATOM	5534	O	LEU	582	21.682	105.179	56.289	1.00	0.00	O
ATOM	5535	N	MET	583	21.687	104.173	58.304	1.00	0.00	N
ATOM	5536	HN	MET	583	22.256	103.845	59.084	1.00	0.00	H
ATOM	5537	CA	MET	583	20.295	103.819	58.256	1.00	0.00	C
ATOM	5538	CB	MET	583	19.932	102.796	59.343	1.00	0.00	C
ATOM	5539	CG	MET	583	20.701	101.479	59.212	1.00	0.00	C
ATOM	5540	SD	MET	583	20.264	100.480	57.759	1.00	0.00	S
ATOM	5541	CE	MET	583	18.865	99.661	58.573	1.00	0.00	C
ATOM	5542	C	MET	583	19.496	105.058	58.521	1.00	0.00	C
ATOM	5543	O	MET	583	18.476	105.304	57.879	1.00	0.00	O
ATOM	5544	N	LYS	584	19.962	105.884	59.482	1.00	0.00	N
ATOM	5545	HN	LYS	584	20.843	105.667	59.947	1.00	0.00	H
ATOM	5546	CA	LYS	584	19.235	107.062	59.858	1.00	0.00	C
ATOM	5547	CB	LYS	584	19.880	107.855	61.006	1.00	0.00	C

ATOM	5548	CG	LYS	584	18.864	108.713	61.769	1.00	0.00	C
ATOM	5549	CD	LYS	584	18.106	109.736	60.919	1.00	0.00	C
ATOM	5550	CE	LYS	584	18.618	111.167	61.087	1.00	0.00	C
ATOM	5551	NZ	LYS	584	17.758	112.109	60.337	1.00	0.00	N
ATOM	5552	HZ1	LYS	584	18.100	113.064	60.449	1.00	0.00	H
ATOM	5553	HZ2	LYS	584	16.777	112.022	60.601	1.00	0.00	H
ATOM	5554	HZ3	LYS	584	17.673	111.848	59.355	1.00	0.00	H
ATOM	5555	C	LYS	584	19.205	107.940	58.654	1.00	0.00	C
ATOM	5556	O	LYS	584	18.229	108.648	58.403	1.00	0.00	O
ATOM	5557	N	GLU	585	20.310	107.902	57.885	1.00	0.00	N
ATOM	5558	HN	GLU	585	21.086	107.305	58.173	1.00	0.00	H
ATOM	5559	CA	GLU	585	20.440	108.663	56.683	1.00	0.00	C
ATOM	5560	CB	GLU	585	21.812	108.519	56.001	1.00	0.00	C
ATOM	5561	CG	GLU	585	21.992	109.455	54.798	1.00	0.00	C
ATOM	5562	CD	GLU	585	22.093	110.889	55.306	1.00	0.00	C
ATOM	5563	OE1	GLU	585	22.215	111.072	56.547	1.00	0.00	O
ATOM	5564	OE2	GLU	585	22.041	111.822	54.461	1.00	0.00	O
ATOM	5565	C	GLU	585	19.397	108.162	55.746	1.00	0.00	C
ATOM	5566	O	GLU	585	18.843	108.938	54.967	1.00	0.00	O
ATOM	5567	N	LYS	586	19.093	106.848	55.810	1.00	0.00	N
ATOM	5568	HN	LYS	586	19.568	106.234	56.472	1.00	0.00	H
ATOM	5569	CA	LYS	586	18.088	106.336	54.928	1.00	0.00	C
ATOM	5570	CB	LYS	586	16.787	107.139	55.108	1.00	0.00	C
ATOM	5571	CG	LYS	586	15.663	106.797	54.151	1.00	0.00	C
ATOM	5572	CD	LYS	586	15.114	105.393	54.330	1.00	0.00	C
ATOM	5573	CE	LYS	586	14.115	105.049	53.233	1.00	0.00	C
ATOM	5574	NZ	LYS	586	14.794	105.057	51.916	1.00	0.00	N
ATOM	5575	HZ1	LYS	586	14.125	104.827	51.181	1.00	0.00	H
ATOM	5576	HZ2	LYS	586	15.608	104.442	51.900	1.00	0.00	H
ATOM	5577	HZ3	LYS	586	15.272	105.940	51.736	1.00	0.00	H
ATOM	5578	C	LYS	586	18.624	106.521	53.551	1.00	0.00	C
ATOM	5579	O	LYS	586	17.895	106.704	52.578	1.00	0.00	O
ATOM	5580	N	GLY	587	19.957	106.429	53.441	1.00	0.00	N
ATOM	5581	HN	GLY	587	20.520	106.207	54.262	1.00	0.00	H
ATOM	5582	CA	GLY	587	20.591	106.640	52.185	1.00	0.00	C
ATOM	5583	C	GLY	587	20.861	105.319	51.552	1.00	0.00	C
ATOM	5584	O	GLY	587	20.012	104.427	51.507	1.00	0.00	O
ATOM	5585	N	ILE	588	22.083	105.184	51.015	1.00	0.00	N
ATOM	5586	HN	ILE	588	22.769	105.931	51.122	1.00	0.00	H
ATOM	5587	CA	ILE	588	22.427	104.005	50.297	1.00	0.00	C
ATOM	5588	CB	ILE	588	23.813	104.069	49.741	1.00	0.00	C
ATOM	5589	CG1	ILE	588	23.972	105.301	48.835	1.00	0.00	C
ATOM	5590	CG2	ILE	588	24.085	102.729	49.037	1.00	0.00	C
ATOM	5591	CD1	ILE	588	23.050	105.292	47.618	1.00	0.00	C
ATOM	5592	C	ILE	588	22.407	102.817	51.202	1.00	0.00	C
ATOM	5593	O	ILE	588	21.783	101.803	50.888	1.00	0.00	O
ATOM	5594	N	TYR	589	23.046	102.942	52.379	1.00	0.00	N
ATOM	5595	HN	TYR	589	23.419	103.849	52.660	1.00	0.00	H
ATOM	5596	CA	TYR	589	23.206	101.811	53.239	1.00	0.00	C
ATOM	5597	CB	TYR	589	23.909	102.186	54.549	1.00	0.00	C
ATOM	5598	CG	TYR	589	24.113	100.944	55.339	1.00	0.00	C
ATOM	5599	CD1	TYR	589	25.041	100.015	54.935	1.00	0.00	C
ATOM	5600	CD2	TYR	589	23.400	100.720	56.492	1.00	0.00	C
ATOM	5601	CE1	TYR	589	25.249	98.868	55.662	1.00	0.00	C
ATOM	5602	CE2	TYR	589	23.604	99.576	57.225	1.00	0.00	C
ATOM	5603	CZ	TYR	589	24.528	98.648	56.810	1.00	0.00	C
ATOM	5604	OH	TYR	589	24.736	97.476	57.565	1.00	0.00	O
ATOM	5605	HH	TYR	589	25.375	96.834	57.278	1.00	0.00	H
ATOM	5606	C	TYR	589	21.860	101.247	53.558	1.00	0.00	C
ATOM	5607	O	TYR	589	21.565	100.087	53.267	1.00	0.00	O
ATOM	5608	N	PHE	590	20.964	102.105	54.051	1.00	0.00	N
ATOM	5609	HN	PHE	590	21.216	103.088	54.152	1.00	0.00	H
ATOM	5610	CA	PHE	590	19.660	101.672	54.440	1.00	0.00	C
ATOM	5611	CB	PHE	590	18.803	102.796	55.050	1.00	0.00	C
ATOM	5612	CG	PHE	590	17.433	102.245	55.253	1.00	0.00	C
ATOM	5613	CD1	PHE	590	17.199	101.262	56.188	1.00	0.00	C
ATOM	5614	CD2	PHE	590	16.376	102.727	54.517	1.00	0.00	C
ATOM	5615	CE1	PHE	590	15.935	100.755	56.377	1.00	0.00	C
ATOM	5616	CE2	PHE	590	15.110	102.226	54.703	1.00	0.00	C
ATOM	5617	CZ	PHE	590	14.887	101.237	55.632	1.00	0.00	C
ATOM	5618	C	PHE	590	18.946	101.109	53.247	1.00	0.00	C
ATOM	5619	O	PHE	590	18.359	100.027	53.310	1.00	0.00	O
ATOM	5620	N	LYS	591	19.022	101.809	52.105	1.00	0.00	N
ATOM	5621	HN	LYS	591	19.623	102.631	52.049	1.00	0.00	H

ATOM	5622	CA	LYS	591	18.259	101.402	50.965	1.00	0.00	C
ATOM	5623	CB	LYS	591	18.463	102.299	49.738	1.00	0.00	C
ATOM	5624	CG	LYS	591	17.629	101.820	48.549	1.00	0.00	C
ATOM	5625	CD	LYS	591	17.561	102.814	47.393	1.00	0.00	C
ATOM	5626	CE	LYS	591	16.782	102.290	46.184	1.00	0.00	C
ATOM	5627	NZ	LYS	591	17.676	101.509	45.300	1.00	0.00	N
ATOM	5628	HZ1	LYS	591	17.157	101.160	44.494	1.00	0.00	H
ATOM	5629	HZ2	LYS	591	18.149	100.758	45.803	1.00	0.00	H
ATOM	5630	HZ3	LYS	591	18.498	102.044	45.021	1.00	0.00	H
ATOM	5631	C	LYS	591	18.669	100.032	50.547	1.00	0.00	C
ATOM	5632	O	LYS	591	17.847	99.134	50.362	1.00	0.00	O
ATOM	5633	N	LEU	592	19.981	99.827	50.420	1.00	0.00	N
ATOM	5634	HN	LEU	592	20.642	100.575	50.631	1.00	0.00	H
ATOM	5635	CA	LEU	592	20.448	98.556	49.988	1.00	0.00	C
ATOM	5636	CB	LEU	592	21.963	98.506	49.717	1.00	0.00	C
ATOM	5637	CG	LEU	592	22.360	99.222	48.406	1.00	0.00	C
ATOM	5638	CD1	LEU	592	21.818	98.465	47.185	1.00	0.00	C
ATOM	5639	CD2	LEU	592	21.926	100.695	48.383	1.00	0.00	C
ATOM	5640	C	LEU	592	20.078	97.540	51.005	1.00	0.00	C
ATOM	5641	O	LEU	592	19.807	96.391	50.651	1.00	0.00	O
ATOM	5642	N	VAL	593	20.030	97.956	52.288	1.00	0.00	N
ATOM	5643	HN	VAL	593	20.210	98.937	52.503	1.00	0.00	H
ATOM	5644	CA	VAL	593	19.731	97.047	53.353	1.00	0.00	C
ATOM	5645	CB	VAL	593	19.540	97.719	54.687	1.00	0.00	C
ATOM	5646	CG1	VAL	593	18.924	96.701	55.664	1.00	0.00	C
ATOM	5647	CG2	VAL	593	20.898	98.250	55.175	1.00	0.00	C
ATOM	5648	C	VAL	593	18.439	96.369	53.002	1.00	0.00	C
ATOM	5649	O	VAL	593	18.346	95.142	52.965	1.00	0.00	O
ATOM	5650	N	THR	594	17.426	97.162	52.636	1.00	0.00	N
ATOM	5651	HN	THR	594	17.588	98.165	52.548	1.00	0.00	H
ATOM	5652	CA	THR	594	16.117	96.639	52.364	1.00	0.00	C
ATOM	5653	CB	THR	594	15.101	97.710	52.124	1.00	0.00	C
ATOM	5654	OG1	THR	594	15.433	98.430	50.947	1.00	0.00	O
ATOM	5655	HG1	THR	594	15.448	97.852	50.194	1.00	0.00	H
ATOM	5656	CG2	THR	594	15.077	98.646	53.343	1.00	0.00	C
ATOM	5657	C	THR	594	16.112	95.787	51.127	1.00	0.00	C
ATOM	5658	O	THR	594	15.460	94.747	51.053	1.00	0.00	O
ATOM	5659	N	MET	595	16.882	96.216	50.125	1.00	0.00	N
ATOM	5660	HN	MET	595	17.490	97.010	50.329	1.00	0.00	H
ATOM	5661	CA	MET	595	16.951	95.687	48.795	1.00	0.00	C
ATOM	5662	CB	MET	595	17.678	96.620	47.802	1.00	0.00	C
ATOM	5663	CG	MET	595	17.587	96.129	46.352	1.00	0.00	C
ATOM	5664	SD	MET	595	18.547	97.077	45.134	1.00	0.00	S
ATOM	5665	CE	MET	595	18.500	95.779	43.862	1.00	0.00	C
ATOM	5666	C	MET	595	17.636	94.338	48.762	1.00	0.00	C
ATOM	5667	O	MET	595	17.786	93.752	47.690	1.00	0.00	O
ATOM	5668	N	GLN	596	18.006	93.758	49.921	1.00	0.00	N
ATOM	5669	HN	GLN	596	17.501	94.029	50.765	1.00	0.00	H
ATOM	5670	CA	GLN	596	19.064	92.780	50.062	1.00	0.00	C
ATOM	5671	CB	GLN	596	18.817	91.777	51.199	1.00	0.00	C
ATOM	5672	CG	GLN	596	19.341	92.245	52.552	1.00	0.00	C
ATOM	5673	CD	GLN	596	20.826	91.895	52.565	1.00	0.00	C
ATOM	5674	OE1	GLN	596	21.269	91.028	53.317	1.00	0.00	O
ATOM	5675	NE2	GLN	596	21.619	92.571	51.694	1.00	0.00	N
ATOM	5676	1HE2	GLN	596	21.252	93.290	51.071	1.00	0.00	H
ATOM	5677	2HE2	GLN	596	22.612	92.337	51.703	1.00	0.00	H
ATOM	5678	C	GLN	596	19.472	91.936	48.863	1.00	0.00	C
ATOM	5679	O	GLN	596	20.650	92.042	48.532	1.00	0.00	O
ATOM	5680	N	THR	597	18.647	91.072	48.220	1.00	0.00	N
ATOM	5681	HN	THR	597	17.736	90.881	48.638	1.00	0.00	H
ATOM	5682	CA	THR	597	18.990	90.373	46.923	1.00	0.00	C
ATOM	5683	CB	THR	597	20.128	90.954	46.121	1.00	0.00	C
ATOM	5684	OG1	THR	597	19.871	92.321	45.830	1.00	0.00	O
ATOM	5685	HG1	THR	597	20.588	92.687	45.325	1.00	0.00	H
ATOM	5686	CG2	THR	597	20.276	90.164	44.812	1.00	0.00	C
ATOM	5687	C	THR	597	19.196	88.727	46.907	1.00	0.00	C
ATOM	5688	O	THR	597	19.409	88.454	48.097	1.00	0.00	O
ATOM	5689	N	LEU	598	19.177	87.729	45.714	1.00	0.00	N
ATOM	5690	CA	LEU	598	19.244	86.108	45.417	1.00	0.00	C
ATOM	5691	CB	LEU	598	17.949	85.392	45.856	1.00	0.00	C
ATOM	5692	CG	LEU	598	17.683	85.365	47.372	1.00	0.00	C
ATOM	5693	CD1	LEU	598	17.269	86.743	47.902	1.00	0.00	C
ATOM	5694	CD2	LEU	598	16.680	84.261	47.741	1.00	0.00	C
ATOM	5695	C	LEU	598	19.649	85.157	44.061	1.00	0.00	C

ATOM	5696	O	LEU	598	19.957	85.665	42.983	1.00	0.00	O
ATOM	5697	N	ASP	599	19.689	83.687	44.069	1.00	0.00	N
ATOM	5698	HN	ASP	599	19.502	83.276	44.984	1.00	0.00	H
ATOM	5699	CA	ASP	599	19.964	82.625	42.940	1.00	0.00	C
ATOM	5700	CB	ASP	599	21.425	82.582	42.460	1.00	0.00	C
ATOM	5701	CG	ASP	599	21.546	83.700	41.425	1.00	0.00	C
ATOM	5702	OD1	ASP	599	20.662	83.754	40.528	1.00	0.00	O
ATOM	5703	OD2	ASP	599	22.515	84.501	41.503	1.00	0.00	O
ATOM	5704	C	ASP	599	19.379	81.120	43.005	1.00	0.00	C
ATOM	5705	O	ASP	599	18.799	80.769	44.029	1.00	0.00	O
ATOM	5706	N	GLU	600	19.483	80.174	41.930	1.00	0.00	N
ATOM	5707	HN	GLU	600	20.040	80.443	41.119	1.00	0.00	H
ATOM	5708	CA	GLU	600	18.825	78.797	41.907	1.00	0.00	C
ATOM	5709	CB	GLU	600	17.316	78.956	42.192	1.00	0.00	C
ATOM	5710	CG	GLU	600	16.546	79.774	41.136	1.00	0.00	C
ATOM	5711	CD	GLU	600	17.040	81.219	41.059	1.00	0.00	C
ATOM	5712	OE1	GLU	600	16.781	82.015	42.003	1.00	0.00	O
ATOM	5713	OE2	GLU	600	17.706	81.533	40.037	1.00	0.00	O
ATOM	5714	C	GLU	600	18.931	77.884	40.635	1.00	0.00	C
ATOM	5715	O	GLU	600	19.220	78.319	39.527	1.00	0.00	O
ATOM	5716	N	SER	601	18.668	76.541	40.765	1.00	0.00	N
ATOM	5717	HN	SER	601	18.477	76.223	41.715	1.00	0.00	H
ATOM	5718	CA	SER	601	18.623	75.492	39.724	1.00	0.00	C
ATOM	5719	CB	SER	601	20.011	74.975	39.310	1.00	0.00	C
ATOM	5720	OG	SER	601	20.652	74.364	40.419	1.00	0.00	O
ATOM	5721	HG	SER	601	21.509	74.045	40.163	1.00	0.00	H
ATOM	5722	C	SER	601	17.897	74.383	40.402	1.00	0.00	C
ATOM	5723	O	SER	601	17.797	74.404	41.627	1.00	0.00	O
ATOM	5724	N	ILE	602	17.342	73.395	39.668	1.00	0.00	N
ATOM	5725	HN	ILE	602	17.430	73.334	38.654	1.00	0.00	H
ATOM	5726	CA	ILE	602	16.613	72.434	40.458	1.00	0.00	C
ATOM	5727	CB	ILE	602	15.137	72.746	40.457	1.00	0.00	C
ATOM	5728	CG1	ILE	602	14.405	72.002	41.576	1.00	0.00	C
ATOM	5729	CG2	ILE	602	14.567	72.491	39.052	1.00	0.00	C
ATOM	5730	CD1	ILE	602	12.993	72.534	41.810	1.00	0.00	C
ATOM	5731	C	ILE	602	16.839	70.989	40.063	1.00	0.00	C
ATOM	5732	O	ILE	602	16.739	70.591	38.907	1.00	0.00	O
ATOM	5733	N	PRO	603	17.167	70.196	41.061	1.00	0.00	N
ATOM	5734	CA	PRO	603	17.338	68.768	40.871	1.00	0.00	C
ATOM	5735	CD	PRO	603	18.061	70.703	42.091	1.00	0.00	C
ATOM	5736	CB	PRO	603	18.144	68.277	42.072	1.00	0.00	C
ATOM	5737	CG	PRO	603	18.950	69.515	42.498	1.00	0.00	C
ATOM	5738	C	PRO	603	16.087	67.950	40.618	1.00	0.00	C
ATOM	5739	O	PRO	603	16.220	66.869	40.049	1.00	0.00	O
ATOM	5740	N	PRO	604	14.906	68.366	40.998	1.00	0.00	N
ATOM	5741	CA	PRO	604	13.762	67.510	40.760	1.00	0.00	C
ATOM	5742	CD	PRO	604	14.763	69.079	42.255	1.00	0.00	C
ATOM	5743	CB	PRO	604	12.625	68.105	41.581	1.00	0.00	C
ATOM	5744	CG	PRO	604	13.363	68.716	42.787	1.00	0.00	C
ATOM	5745	C	PRO	604	13.464	67.301	39.313	1.00	0.00	C
ATOM	5746	O	PRO	604	13.681	68.210	38.515	1.00	0.00	O
ATOM	5747	N	VAL	605	12.928	66.112	38.970	1.00	0.00	N
ATOM	5748	HN	VAL	605	12.656	65.462	39.707	1.00	0.00	H
ATOM	5749	CA	VAL	605	12.728	65.731	37.597	1.00	0.00	C
ATOM	5750	CB	VAL	605	13.461	64.444	37.291	1.00	0.00	C
ATOM	5751	CG1	VAL	605	13.451	64.143	35.780	1.00	0.00	C
ATOM	5752	CG2	VAL	605	14.874	64.553	37.891	1.00	0.00	C
ATOM	5753	C	VAL	605	11.233	65.556	37.404	1.00	0.00	C
ATOM	5754	O	VAL	605	10.449	66.256	38.040	1.00	0.00	O
ATOM	5755	N	SER	606	10.790	64.720	36.431	1.00	0.00	N
ATOM	5756	HN	SER	606	11.470	64.279	35.812	1.00	0.00	H
ATOM	5757	CA	SER	606	9.385	64.434	36.243	1.00	0.00	C
ATOM	5758	CB	SER	606	8.601	65.512	35.468	1.00	0.00	C
ATOM	5759	OG	SER	606	8.293	66.615	36.302	1.00	0.00	O
ATOM	5760	HG	SER	606	7.810	67.279	35.824	1.00	0.00	H
ATOM	5761	C	SER	606	9.243	63.184	35.418	1.00	0.00	C
ATOM	5762	O	SER	606	8.910	63.241	34.234	1.00	0.00	O
ATOM	5763	N	PHE	607	9.390	61.997	36.032	1.00	0.00	N
ATOM	5764	HN	PHE	607	9.528	61.931	37.040	1.00	0.00	H
ATOM	5765	CA	PHE	607	9.344	60.824	35.198	1.00	0.00	C
ATOM	5766	CB	PHE	607	9.767	59.538	35.942	1.00	0.00	C
ATOM	5767	CG	PHE	607	8.773	59.264	37.020	1.00	0.00	C
ATOM	5768	CD1	PHE	607	8.790	59.978	38.196	1.00	0.00	C
ATOM	5769	CD2	PHE	607	7.797	58.311	36.839	1.00	0.00	C

ATOM	5770	CE1	PHE	607	7.863	59.730	39.181	1.00	0.00	C
ATOM	5771	CE2	PHE	607	6.869	58.058	37.821	1.00	0.00	C
ATOM	5772	CZ	PHE	607	6.902	58.765	38.997	1.00	0.00	C
ATOM	5773	C	PHE	607	7.964	60.641	34.630	1.00	0.00	C
ATOM	5774	O	PHE	607	6.984	60.480	35.356	1.00	0.00	O
ATOM	5775	N	TRP	608	7.847	60.747	33.287	1.00	0.00	N
ATOM	5776	HN	TRP	608	8.673	61.049	32.770	1.00	0.00	H
ATOM	5777	CA	TRP	608	6.654	60.470	32.519	1.00	0.00	C
ATOM	5778	CB	TRP	608	6.098	59.052	32.748	1.00	0.00	C
ATOM	5779	CG	TRP	608	7.045	57.918	32.426	1.00	0.00	C
ATOM	5780	CD2	TRP	608	7.792	57.792	31.205	1.00	0.00	C
ATOM	5781	CD1	TRP	608	7.399	56.854	33.203	1.00	0.00	C
ATOM	5782	NE1	TRP	608	8.296	56.057	32.533	1.00	0.00	N
ATOM	5783	HE1	TRP	608	8.703	55.191	32.885	1.00	0.00	H
ATOM	5784	CE2	TRP	608	8.553	56.626	31.305	1.00	0.00	C
ATOM	5785	CE3	TRP	608	7.847	58.585	30.098	1.00	0.00	C
ATOM	5786	CZ2	TRP	608	9.379	56.233	30.291	1.00	0.00	C
ATOM	5787	CZ3	TRP	608	8.676	58.180	29.075	1.00	0.00	C
ATOM	5788	CH2	TRP	608	9.427	57.026	29.167	1.00	0.00	C
ATOM	5789	C	TRP	608	5.566	61.432	32.910	1.00	0.00	C
ATOM	5790	O	TRP	608	4.481	61.422	32.328	1.00	0.00	O
ATOM	5791	N	ARG	609	5.838	62.314	33.888	1.00	0.00	N
ATOM	5792	HN	ARG	609	6.780	62.340	34.278	1.00	0.00	H
ATOM	5793	CA	ARG	609	4.854	63.218	34.401	1.00	0.00	C
ATOM	5794	CB	ARG	609	5.408	64.018	35.591	1.00	0.00	C
ATOM	5795	CG	ARG	609	4.422	64.985	36.249	1.00	0.00	C
ATOM	5796	CD	ARG	609	5.063	65.788	37.386	1.00	0.00	C
ATOM	5797	NE	ARG	609	4.027	66.692	37.960	1.00	0.00	N
ATOM	5798	HE	ARG	609	3.043	66.537	37.742	1.00	0.00	H
ATOM	5799	CZ	ARG	609	4.385	67.726	38.775	1.00	0.00	C
ATOM	5800	NH1	ARG	609	5.704	67.984	39.029	1.00	0.00	N
ATOM	5801	1HH1	ARG	609	5.972	68.757	39.638	1.00	0.00	H
ATOM	5802	2HH1	ARG	609	6.428	67.405	38.604	1.00	0.00	H
ATOM	5803	NH2	ARG	609	3.417	68.501	39.344	1.00	0.00	N
ATOM	5804	1HH2	ARG	609	3.685	69.274	39.953	1.00	0.00	H
ATOM	5805	2HH2	ARG	609	2.433	68.309	39.155	1.00	0.00	H
ATOM	5806	C	ARG	609	4.505	64.194	33.336	1.00	0.00	C
ATOM	5807	O	ARG	609	3.336	64.466	33.072	1.00	0.00	O
ATOM	5808	N	ILE	610	5.547	64.716	32.675	1.00	0.00	N
ATOM	5809	HN	ILE	610	6.483	64.394	32.921	1.00	0.00	H
ATOM	5810	CA	ILE	610	5.421	65.695	31.648	1.00	0.00	C
ATOM	5811	CB	ILE	610	6.729	66.178	31.086	1.00	0.00	C
ATOM	5812	CG1	ILE	610	7.473	65.053	30.344	1.00	0.00	C
ATOM	5813	CG2	ILE	610	7.526	66.801	32.246	1.00	0.00	C
ATOM	5814	CD1	ILE	610	7.912	63.903	31.244	1.00	0.00	C
ATOM	5815	C	ILE	610	4.666	65.067	30.542	1.00	0.00	C
ATOM	5816	O	ILE	610	4.179	65.789	29.683	1.00	0.00	O
ATOM	5817	N	MET	611	4.725	63.726	30.409	1.00	0.00	N
ATOM	5818	HN	MET	611	5.352	63.178	30.998	1.00	0.00	H
ATOM	5819	CA	MET	611	3.897	63.075	29.429	1.00	0.00	C
ATOM	5820	CB	MET	611	4.195	61.577	29.257	1.00	0.00	C
ATOM	5821	CG	MET	611	3.372	60.952	28.127	1.00	0.00	C
ATOM	5822	SD	MET	611	3.653	59.176	27.859	1.00	0.00	S
ATOM	5823	CE	MET	611	2.956	59.154	26.182	1.00	0.00	C
ATOM	5824	C	MET	611	2.467	63.178	29.878	1.00	0.00	C
ATOM	5825	O	MET	611	1.571	63.478	29.090	1.00	0.00	O
ATOM	5826	N	LYS	612	2.217	62.940	31.183	1.00	0.00	N
ATOM	5827	HN	LYS	612	2.991	62.765	31.823	1.00	0.00	H
ATOM	5828	CA	LYS	612	0.865	62.932	31.677	1.00	0.00	C
ATOM	5829	CB	LYS	612	0.792	62.706	33.198	1.00	0.00	C
ATOM	5830	CG	LYS	612	1.628	61.539	33.725	1.00	0.00	C
ATOM	5831	CD	LYS	612	1.260	60.152	33.201	1.00	0.00	C
ATOM	5832	CE	LYS	612	2.209	59.081	33.748	1.00	0.00	C
ATOM	5833	NZ	LYS	612	1.684	57.727	33.479	1.00	0.00	N
ATOM	5834	HZ1	LYS	612	2.316	57.014	33.843	1.00	0.00	H
ATOM	5835	HZ2	LYS	612	1.490	57.588	32.487	1.00	0.00	H
ATOM	5836	HZ3	LYS	612	0.737	57.611	33.839	1.00	0.00	H
ATOM	5837	C	LYS	612	0.328	64.306	31.482	1.00	0.00	C
ATOM	5838	O	LYS	612	-0.714	64.526	30.866	1.00	0.00	O
ATOM	5839	N	LEU	613	1.101	65.273	31.992	1.00	0.00	N
ATOM	5840	HN	LEU	613	1.960	64.991	32.464	1.00	0.00	H
ATOM	5841	CA	LEU	613	0.811	66.668	31.924	1.00	0.00	C
ATOM	5842	CB	LEU	613	1.853	67.538	32.652	1.00	0.00	C
ATOM	5843	CG	LEU	613	1.792	67.460	34.189	1.00	0.00	C

ATOM	5844	CD1	LEU	613	2.891	68.317	34.834	1.00	0.00	C
ATOM	5845	CD2	LEU	613	0.395	67.849	34.700	1.00	0.00	C
ATOM	5846	C	LEU	613	0.869	67.039	30.488	1.00	0.00	C
ATOM	5847	O	LEU	613	0.255	68.018	30.075	1.00	0.00	O
ATOM	5848	N	ASN	614	1.644	66.273	29.698	1.00	0.00	N
ATOM	5849	HN	ASN	614	2.096	65.446	30.088	1.00	0.00	H
ATOM	5850	CA	ASN	614	1.845	66.601	28.314	1.00	0.00	C
ATOM	5851	CB	ASN	614	2.557	65.491	27.522	1.00	0.00	C
ATOM	5852	CG	ASN	614	3.152	66.082	26.260	1.00	0.00	C
ATOM	5853	OD1	ASN	614	3.103	67.292	26.045	1.00	0.00	O
ATOM	5854	ND2	ASN	614	3.733	65.200	25.402	1.00	0.00	N
ATOM	5855	1HD2	ASN	614	4.134	65.598	24.552	1.00	0.00	H
ATOM	5856	2HD2	ASN	614	3.774	64.197	25.580	1.00	0.00	H
ATOM	5857	C	ASN	614	0.490	66.695	27.720	1.00	0.00	C
ATOM	5858	O	ASN	614	0.067	67.755	27.270	1.00	0.00	O
ATOM	5859	N	LEU	615	-0.279	65.613	27.867	1.00	0.00	N
ATOM	5860	HN	LEU	615	0.093	64.810	28.375	1.00	0.00	H
ATOM	5861	CA	LEU	615	-1.604	65.541	27.338	1.00	0.00	C
ATOM	5862	CB	LEU	615	-2.315	64.229	27.712	1.00	0.00	C
ATOM	5863	CG	LEU	615	-3.809	64.215	27.339	1.00	0.00	C
ATOM	5864	CD1	LEU	615	-4.005	64.294	25.819	1.00	0.00	C
ATOM	5865	CD2	LEU	615	-4.547	63.031	27.986	1.00	0.00	C
ATOM	5866	C	LEU	615	-2.418	66.638	27.948	1.00	0.00	C
ATOM	5867	O	LEU	615	-3.314	67.161	27.293	1.00	0.00	O
ATOM	5868	N	THR	616	-2.180	67.010	29.223	1.00	0.00	N
ATOM	5869	HN	THR	616	-1.445	66.579	29.784	1.00	0.00	H
ATOM	5870	CA	THR	616	-3.026	68.051	29.744	1.00	0.00	C
ATOM	5871	CB	THR	616	-2.857	68.369	31.212	1.00	0.00	C
ATOM	5872	OG1	THR	616	-1.626	69.017	31.491	1.00	0.00	O
ATOM	5873	HG1	THR	616	-1.520	69.217	32.414	1.00	0.00	H
ATOM	5874	CG2	THR	616	-2.966	67.051	31.997	1.00	0.00	C
ATOM	5875	C	THR	616	-2.750	69.280	28.938	1.00	0.00	C
ATOM	5876	O	THR	616	-3.643	70.058	28.608	1.00	0.00	O
ATOM	5877	N	GLU	617	-1.472	69.435	28.573	1.00	0.00	N
ATOM	5878	HN	GLU	617	-0.819	68.726	28.908	1.00	0.00	H
ATOM	5879	CA	GLU	617	-0.914	70.477	27.769	1.00	0.00	C
ATOM	5880	CB	GLU	617	0.628	70.437	27.696	1.00	0.00	C
ATOM	5881	CG	GLU	617	1.346	70.448	29.050	1.00	0.00	C
ATOM	5882	CD	GLU	617	0.639	71.415	29.981	1.00	0.00	C
ATOM	5883	OE1	GLU	617	0.368	72.567	29.551	1.00	0.00	O
ATOM	5884	OE2	GLU	617	0.362	71.011	31.141	1.00	0.00	O
ATOM	5885	C	GLU	617	-1.407	70.267	26.377	1.00	0.00	C
ATOM	5886	O	GLU	617	-0.887	70.881	25.453	1.00	0.00	O
ATOM	5887	N	TRP	618	-2.287	69.269	26.151	1.00	0.00	N
ATOM	5888	HN	TRP	618	-2.694	68.738	26.921	1.00	0.00	H
ATOM	5889	CA	TRP	618	-2.628	68.984	24.788	1.00	0.00	C
ATOM	5890	CB	TRP	618	-1.805	67.756	24.378	1.00	0.00	C
ATOM	5891	CG	TRP	618	-1.797	67.318	22.945	1.00	0.00	C
ATOM	5892	CD2	TRP	618	-2.196	66.004	22.534	1.00	0.00	C
ATOM	5893	CD1	TRP	618	-1.315	67.945	21.837	1.00	0.00	C
ATOM	5894	NE1	TRP	618	-1.374	67.096	20.757	1.00	0.00	N
ATOM	5895	HE1	TRP	618	-1.071	67.316	19.808	1.00	0.00	H
ATOM	5896	CE2	TRP	618	-1.912	65.897	21.175	1.00	0.00	C
ATOM	5897	CE3	TRP	618	-2.721	64.965	23.243	1.00	0.00	C
ATOM	5898	CZ2	TRP	618	-2.148	64.733	20.502	1.00	0.00	C
ATOM	5899	CZ3	TRP	618	-2.994	63.806	22.553	1.00	0.00	C
ATOM	5900	CH2	TRP	618	-2.712	63.694	21.209	1.00	0.00	C
ATOM	5901	C	TRP	618	-4.101	68.714	24.595	1.00	0.00	C
ATOM	5902	O	TRP	618	-4.722	67.973	25.355	1.00	0.00	O
ATOM	5903	N	PRO	619	-4.712	69.391	23.646	1.00	0.00	N
ATOM	5904	CA	PRO	619	-6.071	69.118	23.239	1.00	0.00	C
ATOM	5905	CD	PRO	619	-4.263	70.702	23.222	1.00	0.00	C
ATOM	5906	CB	PRO	619	-6.502	70.306	22.378	1.00	0.00	C
ATOM	5907	CG	PRO	619	-5.187	71.039	22.043	1.00	0.00	C
ATOM	5908	C	PRO	619	-6.245	67.777	22.579	1.00	0.00	C
ATOM	5909	O	PRO	619	-6.828	66.881	23.188	1.00	0.00	O
ATOM	5910	N	TYR	620	-5.781	67.634	21.311	1.00	0.00	N
ATOM	5911	HN	TYR	620	-5.443	68.458	20.813	1.00	0.00	H
ATOM	5912	CA	TYR	620	-5.750	66.355	20.645	1.00	0.00	C
ATOM	5913	CB	TYR	620	-7.095	65.605	20.624	1.00	0.00	C
ATOM	5914	CG	TYR	620	-8.027	66.272	19.681	1.00	0.00	C
ATOM	5915	CD1	TYR	620	-8.024	65.913	18.354	1.00	0.00	C
ATOM	5916	CD2	TYR	620	-8.901	67.241	20.115	1.00	0.00	C
ATOM	5917	CE1	TYR	620	-8.881	66.514	17.465	1.00	0.00	C



ATOM	5918	CE2	TYR	620	-9.762	67.846	19.229	1.00	0.00	C
ATOM	5919	CZ	TYR	620	-9.752	67.481	17.904	1.00	0.00	C
ATOM	5920	OH	TYR	620	-10.634	68.099	16.994	1.00	0.00	O
ATOM	5921	HH	TYR	620	-10.627	67.847	16.078	1.00	0.00	H
ATOM	5922	C	TYR	620	-5.248	66.544	19.233	1.00	0.00	C
ATOM	5923	O	TYR	620	-5.657	67.465	18.527	1.00	0.00	O
ATOM	5924	N	PHE	621	-4.198	65.782	18.878	1.00	0.00	N
ATOM	5925	HN	PHE	621	-3.818	65.203	19.627	1.00	0.00	H
ATOM	5926	CA	PHE	621	-3.526	65.651	17.617	1.00	0.00	C
ATOM	5927	CB	PHE	621	-2.144	66.295	17.516	1.00	0.00	C
ATOM	5928	CG	PHE	621	-2.542	67.727	17.426	1.00	0.00	C
ATOM	5929	CD1	PHE	621	-3.644	68.060	16.669	1.00	0.00	C
ATOM	5930	CD2	PHE	621	-1.910	68.716	18.139	1.00	0.00	C
ATOM	5931	CE1	PHE	621	-4.071	69.360	16.562	1.00	0.00	C
ATOM	5932	CE2	PHE	621	-2.330	70.023	18.036	1.00	0.00	C
ATOM	5933	CZ	PHE	621	-3.404	70.345	17.244	1.00	0.00	C
ATOM	5934	C	PHE	621	-3.573	64.378	16.853	1.00	0.00	C
ATOM	5935	O	PHE	621	-2.658	64.209	16.051	1.00	0.00	O
ATOM	5936	N	VAL	622	-4.455	63.404	17.148	1.00	0.00	N
ATOM	5937	HN	VAL	622	-5.205	63.603	17.811	1.00	0.00	H
ATOM	5938	CA	VAL	622	-4.377	62.089	16.560	1.00	0.00	C
ATOM	5939	CB	VAL	622	-5.605	61.263	16.805	1.00	0.00	C
ATOM	5940	CG1	VAL	622	-6.804	61.948	16.129	1.00	0.00	C
ATOM	5941	CG2	VAL	622	-5.339	59.835	16.297	1.00	0.00	C
ATOM	5942	C	VAL	622	-4.176	62.192	15.077	1.00	0.00	C
ATOM	5943	O	VAL	622	-3.565	61.320	14.461	1.00	0.00	O
ATOM	5944	N	VAL	623	-4.661	63.281	14.460	1.00	0.00	N
ATOM	5945	HN	VAL	623	-5.155	63.989	15.003	1.00	0.00	H
ATOM	5946	CA	VAL	623	-4.493	63.460	13.050	1.00	0.00	C
ATOM	5947	CB	VAL	623	-5.088	64.769	12.595	1.00	0.00	C
ATOM	5948	CG1	VAL	623	-6.510	64.803	13.166	1.00	0.00	C
ATOM	5949	CG2	VAL	623	-4.250	65.984	13.030	1.00	0.00	C
ATOM	5950	C	VAL	623	-3.020	63.430	12.721	1.00	0.00	C
ATOM	5951	O	VAL	623	-2.602	62.741	11.791	1.00	0.00	O
ATOM	5952	N	GLY	624	-2.176	64.151	13.486	1.00	0.00	N
ATOM	5953	HN	GLY	624	-2.532	64.675	14.285	1.00	0.00	H
ATOM	5954	CA	GLY	624	-0.781	64.180	13.175	1.00	0.00	C
ATOM	5955	C	GLY	624	-0.235	62.797	13.286	1.00	0.00	C
ATOM	5956	O	GLY	624	0.359	62.289	12.338	1.00	0.00	O
ATOM	5957	N	VAL	625	-0.495	62.111	14.414	1.00	0.00	N
ATOM	5958	HN	VAL	625	-1.091	62.512	15.138	1.00	0.00	H
ATOM	5959	CA	VAL	625	0.078	60.808	14.583	1.00	0.00	C
ATOM	5960	CB	VAL	625	-0.248	60.152	15.896	1.00	0.00	C
ATOM	5961	CG1	VAL	625	0.344	61.000	17.032	1.00	0.00	C
ATOM	5962	CG2	VAL	625	-1.763	59.943	16.001	1.00	0.00	C
ATOM	5963	C	VAL	625	-0.440	59.948	13.475	1.00	0.00	C
ATOM	5964	O	VAL	625	0.230	59.010	13.048	1.00	0.00	O
ATOM	5965	N	PHE	626	-1.654	60.251	12.975	1.00	0.00	N
ATOM	5966	HN	PHE	626	-2.174	61.052	13.334	1.00	0.00	H
ATOM	5967	CA	PHE	626	-2.207	59.435	11.932	1.00	0.00	C
ATOM	5968	CB	PHE	626	-3.621	59.857	11.496	1.00	0.00	C
ATOM	5969	CG	PHE	626	-4.185	58.718	10.708	1.00	0.00	C
ATOM	5970	CD1	PHE	626	-3.832	58.509	9.394	1.00	0.00	C
ATOM	5971	CD2	PHE	626	-5.080	57.851	11.295	1.00	0.00	C
ATOM	5972	CE1	PHE	626	-4.357	57.454	8.682	1.00	0.00	C
ATOM	5973	CE2	PHE	626	-5.609	56.796	10.589	1.00	0.00	C
ATOM	5974	CZ	PHE	626	-5.248	56.595	9.278	1.00	0.00	C
ATOM	5975	C	PHE	626	-1.330	59.488	10.711	1.00	0.00	C
ATOM	5976	O	PHE	626	-0.906	58.452	10.203	1.00	0.00	O
ATOM	5977	N	CYS	627	-0.985	60.696	10.221	1.00	0.00	N
ATOM	5978	HN	CYS	627	-1.294	61.545	10.694	1.00	0.00	H
ATOM	5979	CA	CYS	627	-0.181	60.788	9.032	1.00	0.00	C
ATOM	5980	CB	CYS	627	-0.022	62.233	8.513	1.00	0.00	C
ATOM	5981	SG	CYS	627	0.739	63.366	9.712	1.00	0.00	S
ATOM	5982	C	CYS	627	1.161	60.208	9.346	1.00	0.00	C
ATOM	5983	O	CYS	627	1.859	59.720	8.457	1.00	0.00	O
ATOM	5984	N	ALA	628	1.550	60.238	10.638	1.00	0.00	N
ATOM	5985	HN	ALA	628	0.928	60.628	11.346	1.00	0.00	H
ATOM	5986	CA	ALA	628	2.833	59.725	11.022	1.00	0.00	C
ATOM	5987	CB	ALA	628	3.041	59.741	12.545	1.00	0.00	C
ATOM	5988	C	ALA	628	2.865	58.312	10.572	1.00	0.00	C
ATOM	5989	O	ALA	628	3.825	57.875	9.937	1.00	0.00	O
ATOM	5990	N	ILE	629	1.764	57.585	10.813	1.00	0.00	N
ATOM	5991	HN	ILE	629	0.957	58.006	11.273	1.00	0.00	H

ATOM	5992	CA	ILE	629	1.738	56.214	10.416	1.00	0.00	C
ATOM	5993	CB	ILE	629	0.450	55.526	10.786	1.00	0.00	C
ATOM	5994	CG1	ILE	629	0.208	55.676	12.297	1.00	0.00	C
ATOM	5995	CG2	ILE	629	0.533	54.059	10.323	1.00	0.00	C
ATOM	5996	CD1	ILE	629	1.392	55.209	13.140	1.00	0.00	C
ATOM	5997	C	ILE	629	1.892	56.162	8.922	1.00	0.00	C
ATOM	5998	O	ILE	629	2.679	55.368	8.410	1.00	0.00	O
ATOM	5999	N	ILE	630	1.182	57.036	8.173	1.00	0.00	N
ATOM	6000	HN	ILE	630	0.630	57.765	8.625	1.00	0.00	H
ATOM	6001	CA	ILE	630	1.207	56.935	6.735	1.00	0.00	C
ATOM	6002	CB	ILE	630	0.214	57.828	6.023	1.00	0.00	C
ATOM	6003	CG1	ILE	630	0.573	59.323	6.073	1.00	0.00	C
ATOM	6004	CG2	ILE	630	-1.164	57.524	6.633	1.00	0.00	C
ATOM	6005	CD1	ILE	630	1.616	59.739	5.033	1.00	0.00	C
ATOM	6006	C	ILE	630	2.578	57.211	6.202	1.00	0.00	C
ATOM	6007	O	ILE	630	3.040	56.505	5.304	1.00	0.00	O
ATOM	6008	N	ASN	631	3.282	58.231	6.742	1.00	0.00	N
ATOM	6009	HN	ASN	631	2.932	58.765	7.537	1.00	0.00	H
ATOM	6010	CA	ASN	631	4.547	58.521	6.136	1.00	0.00	C
ATOM	6011	CB	ASN	631	5.253	59.839	6.539	1.00	0.00	C
ATOM	6012	CG	ASN	631	5.972	59.800	7.873	1.00	0.00	C
ATOM	6013	OD1	ASN	631	5.790	58.899	8.686	1.00	0.00	O
ATOM	6014	ND2	ASN	631	6.837	60.827	8.095	1.00	0.00	N
ATOM	6015	1HD2	ASN	631	7.321	60.801	8.993	1.00	0.00	H
ATOM	6016	2HD2	ASN	631	6.988	61.576	7.419	1.00	0.00	H
ATOM	6017	C	ASN	631	5.429	57.343	6.328	1.00	0.00	C
ATOM	6018	O	ASN	631	6.258	57.032	5.471	1.00	0.00	O
ATOM	6019	N	GLY	632	5.236	56.626	7.450	1.00	0.00	N
ATOM	6020	HN	GLY	632	4.531	56.898	8.135	1.00	0.00	H
ATOM	6021	CA	GLY	632	6.047	55.478	7.647	1.00	0.00	C
ATOM	6022	C	GLY	632	5.818	54.535	6.509	1.00	0.00	C
ATOM	6023	O	GLY	632	6.768	54.102	5.866	1.00	0.00	O
ATOM	6024	N	GLY	633	4.549	54.252	6.169	1.00	0.00	N
ATOM	6025	HN	GLY	633	3.784	54.709	6.665	1.00	0.00	H
ATOM	6026	CA	GLY	633	4.249	53.316	5.118	1.00	0.00	C
ATOM	6027	C	GLY	633	4.846	53.815	3.840	1.00	0.00	C
ATOM	6028	O	GLY	633	5.299	53.042	2.995	1.00	0.00	O
ATOM	6029	N	LEU	634	4.881	55.145	3.680	1.00	0.00	N
ATOM	6030	HN	LEU	634	4.576	55.747	4.445	1.00	0.00	H
ATOM	6031	CA	LEU	634	5.336	55.740	2.462	1.00	0.00	C
ATOM	6032	CB	LEU	634	5.371	57.274	2.587	1.00	0.00	C
ATOM	6033	CG	LEU	634	5.675	58.038	1.287	1.00	0.00	C
ATOM	6034	CD1	LEU	634	4.557	57.836	0.251	1.00	0.00	C
ATOM	6035	CD2	LEU	634	5.938	59.525	1.582	1.00	0.00	C
ATOM	6036	C	LEU	634	6.732	55.242	2.198	1.00	0.00	C
ATOM	6037	O	LEU	634	7.093	54.963	1.053	1.00	0.00	O
ATOM	6038	N	GLN	635	7.556	55.119	3.260	1.00	0.00	N
ATOM	6039	HN	GLN	635	7.207	55.342	4.192	1.00	0.00	H
ATOM	6040	CA	GLN	635	8.918	54.679	3.104	1.00	0.00	C
ATOM	6041	CB	GLN	635	9.709	54.797	4.423	1.00	0.00	C
ATOM	6042	CG	GLN	635	11.165	54.343	4.331	1.00	0.00	C
ATOM	6043	CD	GLN	635	11.981	55.506	3.801	1.00	0.00	C
ATOM	6044	OE1	GLN	635	11.712	56.663	4.121	1.00	0.00	O
ATOM	6045	NE2	GLN	635	13.008	55.196	2.966	1.00	0.00	N
ATOM	6046	1HE2	GLN	635	13.231	54.237	2.701	1.00	0.00	H
ATOM	6047	2HE2	GLN	635	13.557	55.978	2.609	1.00	0.00	H
ATOM	6048	C	GLN	635	8.990	53.262	2.591	1.00	0.00	C
ATOM	6049	O	GLN	635	9.595	53.054	1.537	1.00	0.00	O
ATOM	6050	N	PRO	636	8.368	52.270	3.199	1.00	0.00	N
ATOM	6051	CA	PRO	636	8.509	50.975	2.600	1.00	0.00	C
ATOM	6052	CD	PRO	636	8.329	52.137	4.646	1.00	0.00	C
ATOM	6053	CB	PRO	636	7.939	49.982	3.604	1.00	0.00	C
ATOM	6054	CG	PRO	636	8.290	50.632	4.952	1.00	0.00	C
ATOM	6055	C	PRO	636	7.906	50.925	1.230	1.00	0.00	C
ATOM	6056	O	PRO	636	8.331	50.112	0.410	1.00	0.00	O
ATOM	6057	N	ALA	637	6.941	51.812	0.944	1.00	0.00	N
ATOM	6058	HN	ALA	637	6.659	52.498	1.645	1.00	0.00	H
ATOM	6059	CA	ALA	637	6.302	51.802	-0.344	1.00	0.00	C
ATOM	6060	CB	ALA	637	5.247	52.911	-0.495	1.00	0.00	C
ATOM	6061	C	ALA	637	7.344	52.037	-1.393	1.00	0.00	C
ATOM	6062	O	ALA	637	7.352	51.386	-2.438	1.00	0.00	O
ATOM	6063	N	PHE	638	8.279	52.961	-1.125	1.00	0.00	N
ATOM	6064	HN	PHE	638	8.261	53.453	-0.231	1.00	0.00	H
ATOM	6065	CA	PHE	638	9.303	53.265	-2.080	1.00	0.00	C

ATOM	6066	CB	PHE	638	10.285	54.345	-1.610	1.00	0.00	C
ATOM	6067	CG	PHE	638	11.469	54.221	-2.506	1.00	0.00	C
ATOM	6068	CD1	PHE	638	11.456	54.711	-3.792	1.00	0.00	C
ATOM	6069	CD2	PHE	638	12.604	53.596	-2.044	1.00	0.00	C
ATOM	6070	CE1	PHE	638	12.563	54.578	-4.599	1.00	0.00	C
ATOM	6071	CE2	PHE	638	13.713	53.461	-2.844	1.00	0.00	C
ATOM	6072	CZ	PHE	638	13.692	53.953	-4.127	1.00	0.00	C
ATOM	6073	C	PHE	638	10.100	52.053	-2.323	1.00	0.00	C
ATOM	6074	O	PHE	638	10.530	51.783	-3.446	1.00	0.00	O
ATOM	6075	N	ALA	639	10.298	51.287	-1.248	1.00	0.00	N
ATOM	6076	HN	ALA	639	9.865	51.537	-0.359	1.00	0.00	H
ATOM	6077	CA	ALA	639	11.107	50.129	-1.339	1.00	0.00	C
ATOM	6078	CB	ALA	639	11.028	49.390	-0.011	1.00	0.00	C
ATOM	6079	C	ALA	639	10.547	49.254	-2.440	1.00	0.00	C
ATOM	6080	O	ALA	639	11.293	48.769	-3.291	1.00	0.00	O
ATOM	6081	N	ILE	640	9.213	49.056	-2.479	1.00	0.00	N
ATOM	6082	HN	ILE	640	8.625	49.502	-1.775	1.00	0.00	H
ATOM	6083	CA	ILE	640	8.594	48.228	-3.492	1.00	0.00	C
ATOM	6084	CB	ILE	640	7.190	47.799	-3.160	1.00	0.00	C
ATOM	6085	CG1	ILE	640	6.773	46.639	-4.082	1.00	0.00	C
ATOM	6086	CG2	ILE	640	6.258	49.016	-3.264	1.00	0.00	C
ATOM	6087	CD1	ILE	640	5.458	45.966	-3.690	1.00	0.00	C
ATOM	6088	C	ILE	640	8.557	48.844	-4.865	1.00	0.00	C
ATOM	6089	O	ILE	640	8.813	48.165	-5.860	1.00	0.00	O
ATOM	6090	N	ILE	641	8.235	50.147	-4.970	1.00	0.00	N
ATOM	6091	HN	ILE	641	8.130	50.720	-4.133	1.00	0.00	H
ATOM	6092	CA	ILE	641	8.041	50.723	-6.273	1.00	0.00	C
ATOM	6093	CB	ILE	641	7.646	52.176	-6.211	1.00	0.00	C
ATOM	6094	CG1	ILE	641	7.149	52.657	-7.580	1.00	0.00	C
ATOM	6095	CG2	ILE	641	8.815	52.994	-5.643	1.00	0.00	C
ATOM	6096	CD1	ILE	641	5.828	52.014	-7.981	1.00	0.00	C
ATOM	6097	C	ILE	641	9.312	50.574	-7.053	1.00	0.00	C
ATOM	6098	O	ILE	641	9.286	50.214	-8.230	1.00	0.00	O
ATOM	6099	N	PHE	642	10.457	50.837	-6.399	1.00	0.00	N
ATOM	6100	HN	PHE	642	10.405	51.139	-5.426	1.00	0.00	H
ATOM	6101	CA	PHE	642	11.749	50.712	-7.010	1.00	0.00	C
ATOM	6102	CB	PHE	642	12.858	51.180	-6.050	1.00	0.00	C
ATOM	6103	CG	PHE	642	14.181	50.669	-6.507	1.00	0.00	C
ATOM	6104	CD1	PHE	642	14.927	51.337	-7.450	1.00	0.00	C
ATOM	6105	CD2	PHE	642	14.676	49.500	-5.977	1.00	0.00	C
ATOM	6106	CE1	PHE	642	16.148	50.841	-7.851	1.00	0.00	C
ATOM	6107	CE2	PHE	642	15.894	49.001	-6.373	1.00	0.00	C
ATOM	6108	CZ	PHE	642	16.636	49.674	-7.313	1.00	0.00	C
ATOM	6109	C	PHE	642	12.007	49.293	-7.370	1.00	0.00	C
ATOM	6110	O	PHE	642	12.356	48.996	-8.513	1.00	0.00	O
ATOM	6111	N	SER	643	11.773	48.380	-6.408	1.00	0.00	N
ATOM	6112	HN	SER	643	11.387	48.683	-5.514	1.00	0.00	H
ATOM	6113	CA	SER	643	12.056	46.994	-6.617	1.00	0.00	C
ATOM	6114	CB	SER	643	11.559	46.104	-5.461	1.00	0.00	C
ATOM	6115	OG	SER	643	12.135	46.521	-4.234	1.00	0.00	O
ATOM	6116	HG	SER	643	11.829	45.972	-3.521	1.00	0.00	H
ATOM	6117	C	SER	643	11.282	46.581	-7.822	1.00	0.00	C
ATOM	6118	O	SER	643	11.745	45.764	-8.616	1.00	0.00	O
ATOM	6119	N	LYS	644	10.074	47.148	-7.991	1.00	0.00	N
ATOM	6120	HN	LYS	644	9.729	47.834	-7.320	1.00	0.00	H
ATOM	6121	CA	LYS	644	9.278	46.779	-9.122	1.00	0.00	C
ATOM	6122	CB	LYS	644	7.898	47.453	-9.168	1.00	0.00	C
ATOM	6123	CG	LYS	644	7.163	47.137	-10.474	1.00	0.00	C
ATOM	6124	CD	LYS	644	5.730	47.662	-10.553	1.00	0.00	C
ATOM	6125	CE	LYS	644	5.085	47.421	-11.920	1.00	0.00	C
ATOM	6126	NZ	LYS	644	5.889	48.067	-12.984	1.00	0.00	N
ATOM	6127	HZ1	LYS	644	5.459	47.906	-13.895	1.00	0.00	H
ATOM	6128	HZ2	LYS	644	6.863	47.765	-12.963	1.00	0.00	H
ATOM	6129	HZ3	LYS	644	6.036	49.060	-12.801	1.00	0.00	H
ATOM	6130	C	LYS	644	9.933	47.186	-10.401	1.00	0.00	C
ATOM	6131	O	LYS	644	10.090	46.360	-11.294	1.00	0.00	O
ATOM	6132	N	ILE	645	10.376	48.454	-10.521	1.00	0.00	N
ATOM	6133	HN	ILE	645	10.382	49.084	-9.719	1.00	0.00	H
ATOM	6134	CA	ILE	645	10.839	48.895	-11.806	1.00	0.00	C
ATOM	6135	CB	ILE	645	11.224	50.348	-11.850	1.00	0.00	C
ATOM	6136	CG1	ILE	645	11.581	50.742	-13.293	1.00	0.00	C
ATOM	6137	CG2	ILE	645	12.330	50.621	-10.816	1.00	0.00	C
ATOM	6138	CD1	ILE	645	11.714	52.248	-13.507	1.00	0.00	C
ATOM	6139	C	ILE	645	12.003	48.087	-12.241	1.00	0.00	C

ATOM	6140	O	ILE	645	11.995	47.526	-13.336	1.00	0.00	O
ATOM	6141	N	ILE	646	13.004	47.939	-11.364	1.00	0.00	N
ATOM	6142	HN	ILE	646	12.930	48.334	-10.426	1.00	0.00	H
ATOM	6143	CA	ILE	646	14.172	47.226	-11.752	1.00	0.00	C
ATOM	6144	CB	ILE	646	15.213	47.201	-10.667	1.00	0.00	C
ATOM	6145	CG1	ILE	646	16.552	46.679	-11.209	1.00	0.00	C
ATOM	6146	CG2	ILE	646	14.663	46.424	-9.460	1.00	0.00	C
ATOM	6147	CD1	ILE	646	17.723	46.945	-10.266	1.00	0.00	C
ATOM	6148	C	ILE	646	13.735	45.844	-12.093	1.00	0.00	C
ATOM	6149	O	ILE	646	14.089	45.346	-13.151	1.00	0.00	O
ATOM	6150	N	GLY	647	12.873	45.218	-11.274	1.00	0.00	N
ATOM	6151	HN	GLY	647	12.488	45.693	-10.457	1.00	0.00	H
ATOM	6152	CA	GLY	647	12.508	43.865	-11.578	1.00	0.00	C
ATOM	6153	C	GLY	647	11.831	43.794	-12.917	1.00	0.00	C
ATOM	6154	O	GLY	647	12.185	42.999	-13.785	1.00	0.00	O
ATOM	6155	N	VAL	648	10.865	44.689	-13.133	1.00	0.00	N
ATOM	6156	HN	VAL	648	10.707	45.380	-12.400	1.00	0.00	H
ATOM	6157	CA	VAL	648	10.028	44.776	-14.293	1.00	0.00	C
ATOM	6158	CB	VAL	648	9.050	45.915	-14.112	1.00	0.00	C
ATOM	6159	CG1	VAL	648	8.314	46.229	-15.415	1.00	0.00	C
ATOM	6160	CG2	VAL	648	8.087	45.537	-12.978	1.00	0.00	C
ATOM	6161	C	VAL	648	10.882	45.070	-15.490	1.00	0.00	C
ATOM	6162	O	VAL	648	10.424	44.994	-16.628	1.00	0.00	O
ATOM	6163	N	PHE	649	12.058	45.662	-15.259	1.00	0.00	N
ATOM	6164	HN	PHE	649	12.319	45.894	-14.301	1.00	0.00	H
ATOM	6165	CA	PHE	649	12.960	45.978	-16.324	1.00	0.00	C
ATOM	6166	CB	PHE	649	13.596	47.350	-16.063	1.00	0.00	C
ATOM	6167	CG	PHE	649	13.919	47.950	-17.378	1.00	0.00	C
ATOM	6168	CD1	PHE	649	12.935	48.616	-18.075	1.00	0.00	C
ATOM	6169	CD2	PHE	649	15.172	47.845	-17.922	1.00	0.00	C
ATOM	6170	CE1	PHE	649	13.192	49.187	-19.298	1.00	0.00	C
ATOM	6171	CE2	PHE	649	15.429	48.415	-19.143	1.00	0.00	C
ATOM	6172	CZ	PHE	649	14.450	49.087	-19.836	1.00	0.00	C
ATOM	6173	C	PHE	649	14.038	44.950	-16.545	1.00	0.00	C
ATOM	6174	O	PHE	649	14.630	44.872	-17.620	1.00	0.00	O
ATOM	6175	N	THR	650	14.425	44.250	-15.465	1.00	0.00	N
ATOM	6176	HN	THR	650	13.924	44.428	-14.595	1.00	0.00	H
ATOM	6177	CA	THR	650	15.479	43.275	-15.422	1.00	0.00	C
ATOM	6178	CB	THR	650	15.912	42.934	-14.027	1.00	0.00	C
ATOM	6179	OG1	THR	650	14.801	42.479	-13.269	1.00	0.00	O
ATOM	6180	HG1	THR	650	14.405	41.713	-13.667	1.00	0.00	H
ATOM	6181	CG2	THR	650	16.554	44.175	-13.383	1.00	0.00	C
ATOM	6182	C	THR	650	15.050	42.012	-16.088	1.00	0.00	C
ATOM	6183	O	THR	650	15.887	41.241	-16.562	1.00	0.00	O
ATOM	6184	N	ARG	651	13.737	41.712	-16.041	1.00	0.00	N
ATOM	6185	HN	ARG	651	13.084	42.316	-15.541	1.00	0.00	H
ATOM	6186	CA	ARG	651	13.273	40.528	-16.707	1.00	0.00	C
ATOM	6187	CB	ARG	651	13.457	39.293	-15.812	1.00	0.00	C
ATOM	6188	CG	ARG	651	12.764	39.478	-14.464	1.00	0.00	C
ATOM	6189	CD	ARG	651	13.086	38.433	-13.400	1.00	0.00	C
ATOM	6190	NE	ARG	651	11.985	38.563	-12.411	1.00	0.00	N
ATOM	6191	HE	ARG	651	11.677	39.491	-12.121	1.00	0.00	H
ATOM	6192	CZ	ARG	651	11.381	37.458	-11.886	1.00	0.00	C
ATOM	6193	NH1	ARG	651	11.918	36.219	-12.091	1.00	0.00	N
ATOM	6194	1HH1	ARG	651	11.466	35.393	-11.699	1.00	0.00	H
ATOM	6195	2HH1	ARG	651	12.786	36.111	-12.616	1.00	0.00	H
ATOM	6196	NH2	ARG	651	10.221	37.603	-11.184	1.00	0.00	N
ATOM	6197	1HH2	ARG	651	9.769	36.777	-10.792	1.00	0.00	H
ATOM	6198	2HH2	ARG	651	9.820	38.528	-11.031	1.00	0.00	H
ATOM	6199	C	ARG	651	11.814	40.692	-17.046	1.00	0.00	C
ATOM	6200	O	ARG	651	10.973	40.686	-16.148	1.00	0.00	O
ATOM	6201	N	ILE	652	11.480	40.855	-18.355	1.00	0.00	N
ATOM	6202	HN	ILE	652	12.225	40.862	-19.052	1.00	0.00	H
ATOM	6203	CA	ILE	652	10.111	41.019	-18.802	1.00	0.00	C
ATOM	6204	CB	ILE	652	9.459	42.357	-18.525	1.00	0.00	C
ATOM	6205	CG1	ILE	652	10.250	43.475	-19.227	1.00	0.00	C
ATOM	6206	CG2	ILE	652	9.208	42.566	-17.024	1.00	0.00	C
ATOM	6207	CD1	ILE	652	9.499	44.804	-19.319	1.00	0.00	C
ATOM	6208	C	ILE	652	10.057	40.993	-20.305	1.00	0.00	C
ATOM	6209	O	ILE	652	11.048	40.742	-20.987	1.00	0.00	O
ATOM	6210	N	ASP	653	8.844	41.275	-20.845	1.00	0.00	N
ATOM	6211	HN	ASP	653	8.060	41.427	-20.210	1.00	0.00	H
ATOM	6212	CA	ASP	653	8.598	41.372	-22.260	1.00	0.00	C
ATOM	6213	CB	ASP	653	7.110	41.331	-22.648	1.00	0.00	C

ATOM	6214	CG	ASP	653	7.043	41.190	-24.164	1.00	0.00	C
ATOM	6215	OD1	ASP	653	8.052	40.726	-24.759	1.00	0.00	O
ATOM	6216	OD2	ASP	653	5.986	41.548	-24.749	1.00	0.00	O
ATOM	6217	C	ASP	653	9.143	42.673	-22.774	1.00	0.00	C
ATOM	6218	O	ASP	653	9.107	43.698	-22.095	1.00	0.00	O
ATOM	6219	N	ASP	654	9.650	42.660	-24.022	1.00	0.00	N
ATOM	6220	HN	ASP	654	9.601	41.799	-24.567	1.00	0.00	H
ATOM	6221	CA	ASP	654	10.256	43.818	-24.607	1.00	0.00	C
ATOM	6222	CB	ASP	654	10.897	43.546	-25.985	1.00	0.00	C
ATOM	6223	CG	ASP	654	12.173	42.728	-25.824	1.00	0.00	C
ATOM	6224	OD1	ASP	654	12.698	42.641	-24.682	1.00	0.00	O
ATOM	6225	OD2	ASP	654	12.646	42.184	-26.858	1.00	0.00	O
ATOM	6226	C	ASP	654	9.252	44.909	-24.795	1.00	0.00	C
ATOM	6227	O	ASP	654	9.549	46.066	-24.499	1.00	0.00	O
ATOM	6228	N	PRO	655	8.074	44.612	-25.266	1.00	0.00	N
ATOM	6229	CA	PRO	655	7.151	45.684	-25.502	1.00	0.00	C
ATOM	6230	CD	PRO	655	7.879	43.512	-26.196	1.00	0.00	C
ATOM	6231	CB	PRO	655	6.077	45.121	-26.427	1.00	0.00	C
ATOM	6232	CG	PRO	655	6.801	43.992	-27.179	1.00	0.00	C
ATOM	6233	C	PRO	655	6.592	46.219	-24.232	1.00	0.00	C
ATOM	6234	O	PRO	655	6.441	45.467	-23.271	1.00	0.00	O
ATOM	6235	N	GLU	656	6.272	47.521	-24.236	1.00	0.00	N
ATOM	6236	HN	GLU	656	6.501	48.063	-25.069	1.00	0.00	H
ATOM	6237	CA	GLU	656	5.632	48.203	-23.155	1.00	0.00	C
ATOM	6238	CB	GLU	656	4.331	47.505	-22.735	1.00	0.00	C
ATOM	6239	CG	GLU	656	3.354	47.334	-23.903	1.00	0.00	C
ATOM	6240	CD	GLU	656	3.164	48.679	-24.594	1.00	0.00	C
ATOM	6241	OE1	GLU	656	2.650	49.621	-23.935	1.00	0.00	O
ATOM	6242	OE2	GLU	656	3.534	48.781	-25.794	1.00	0.00	O
ATOM	6243	C	GLU	656	6.548	48.293	-21.974	1.00	0.00	C
ATOM	6244	O	GLU	656	6.128	48.704	-20.892	1.00	0.00	O
ATOM	6245	N	THR	657	7.843	47.978	-22.166	1.00	0.00	N
ATOM	6246	HN	THR	657	8.145	47.623	-23.073	1.00	0.00	H
ATOM	6247	CA	THR	657	8.801	48.134	-21.117	1.00	0.00	C
ATOM	6248	CB	THR	657	10.190	47.723	-21.519	1.00	0.00	C
ATOM	6249	OG1	THR	657	10.610	48.459	-22.660	1.00	0.00	O
ATOM	6250	HG1	THR	657	11.488	48.199	-22.914	1.00	0.00	H
ATOM	6251	CG2	THR	657	10.212	46.215	-21.811	1.00	0.00	C
ATOM	6252	C	THR	657	8.839	49.600	-20.862	1.00	0.00	C
ATOM	6253	O	THR	657	9.067	50.046	-19.739	1.00	0.00	O
ATOM	6254	N	LYS	658	8.644	50.386	-21.937	1.00	0.00	N
ATOM	6255	HN	LYS	658	8.490	49.960	-22.851	1.00	0.00	H
ATOM	6256	CA	LYS	658	8.650	51.813	-21.815	1.00	0.00	C
ATOM	6257	CB	LYS	658	8.401	52.573	-23.132	1.00	0.00	C
ATOM	6258	CG	LYS	658	9.507	52.472	-24.185	1.00	0.00	C
ATOM	6259	CD	LYS	658	9.504	51.165	-24.977	1.00	0.00	C
ATOM	6260	CE	LYS	658	8.474	51.147	-26.110	1.00	0.00	C
ATOM	6261	NZ	LYS	658	7.104	51.049	-25.555	1.00	0.00	N
ATOM	6262	HZ1	LYS	658	6.418	51.037	-26.310	1.00	0.00	H
ATOM	6263	HZ2	LYS	658	6.913	51.788	-24.878	1.00	0.00	H
ATOM	6264	HZ3	LYS	658	7.001	50.247	-24.934	1.00	0.00	H
ATOM	6265	C	LYS	658	7.520	52.207	-20.929	1.00	0.00	C
ATOM	6266	O	LYS	658	7.673	53.064	-20.064	1.00	0.00	O
ATOM	6267	N	ARG	659	6.341	51.602	-21.147	1.00	0.00	N
ATOM	6268	HN	ARG	659	6.281	50.884	-21.869	1.00	0.00	H
ATOM	6269	CA	ARG	659	5.165	51.932	-20.398	1.00	0.00	C
ATOM	6270	CB	ARG	659	3.940	51.168	-20.924	1.00	0.00	C
ATOM	6271	CG	ARG	659	2.615	51.792	-20.506	1.00	0.00	C
ATOM	6272	CD	ARG	659	2.383	53.129	-21.206	1.00	0.00	C
ATOM	6273	NE	ARG	659	1.050	53.644	-20.799	1.00	0.00	N
ATOM	6274	HE	ARG	659	0.654	53.410	-19.888	1.00	0.00	H
ATOM	6275	CZ	ARG	659	0.369	54.438	-21.675	1.00	0.00	C
ATOM	6276	NH1	ARG	659	0.908	54.688	-22.904	1.00	0.00	N
ATOM	6277	1HH1	ARG	659	1.810	54.287	-23.163	1.00	0.00	H
ATOM	6278	2HH1	ARG	659	0.399	55.282	-23.559	1.00	0.00	H
ATOM	6279	NH2	ARG	659	-0.837	54.974	-21.329	1.00	0.00	N
ATOM	6280	1HH2	ARG	659	-1.240	54.787	-20.411	1.00	0.00	H
ATOM	6281	2HH2	ARG	659	-1.346	55.568	-21.984	1.00	0.00	H
ATOM	6282	C	ARG	659	5.370	51.517	-18.981	1.00	0.00	C
ATOM	6283	O	ARG	659	5.054	52.257	-18.050	1.00	0.00	O
ATOM	6284	N	GLN	660	5.922	50.304	-18.789	1.00	0.00	N
ATOM	6285	HN	GLN	660	6.205	49.748	-19.596	1.00	0.00	H
ATOM	6286	CA	GLN	660	6.118	49.783	-17.472	1.00	0.00	C
ATOM	6287	CB	GLN	660	6.754	48.383	-17.487	1.00	0.00	C

ATOM	6288	CG	GLN	660	5.934	47.344	-18.259	1.00	0.00	C
ATOM	6289	CD	GLN	660	4.589	47.170	-17.567	1.00	0.00	C
ATOM	6290	OE1	GLN	660	4.519	46.863	-16.378	1.00	0.00	O
ATOM	6291	NE2	GLN	660	3.485	47.376	-18.335	1.00	0.00	N
ATOM	6292	1HE2	GLN	660	3.543	47.631	-19.321	1.00	0.00	H
ATOM	6293	2HE2	GLN	660	2.584	47.259	-17.871	1.00	0.00	H
ATOM	6294	C	GLN	660	7.075	50.692	-16.792	1.00	0.00	C
ATOM	6295	O	GLN	660	6.866	51.098	-15.648	1.00	0.00	O
ATOM	6296	N	ASN	661	8.158	51.051	-17.501	1.00	0.00	N
ATOM	6297	HN	ASN	661	8.289	50.725	-18.459	1.00	0.00	H
ATOM	6298	CA	ASN	661	9.117	51.898	-16.880	1.00	0.00	C
ATOM	6299	CB	ASN	661	10.334	52.155	-17.777	1.00	0.00	C
ATOM	6300	CG	ASN	661	11.489	52.543	-16.869	1.00	0.00	C
ATOM	6301	OD1	ASN	661	11.452	53.572	-16.197	1.00	0.00	O
ATOM	6302	ND2	ASN	661	12.546	51.688	-16.843	1.00	0.00	N
ATOM	6303	1HD2	ASN	661	13.321	51.948	-16.234	1.00	0.00	H
ATOM	6304	2HD2	ASN	661	12.577	50.834	-17.400	1.00	0.00	H
ATOM	6305	C	ASN	661	8.458	53.200	-16.575	1.00	0.00	C
ATOM	6306	O	ASN	661	8.206	53.498	-15.413	1.00	0.00	O
ATOM	6307	N	SER	662	7.991	53.909	-17.624	1.00	0.00	N
ATOM	6308	HN	SER	662	8.015	53.474	-18.546	1.00	0.00	H
ATOM	6309	CA	SER	662	7.462	55.241	-17.517	1.00	0.00	C
ATOM	6310	CB	SER	662	6.792	55.723	-18.817	1.00	0.00	C
ATOM	6311	OG	SER	662	7.743	55.805	-19.868	1.00	0.00	O
ATOM	6312	HG	SER	662	7.330	56.102	-20.670	1.00	0.00	H
ATOM	6313	C	SER	662	6.417	55.256	-16.455	1.00	0.00	C
ATOM	6314	O	SER	662	6.329	56.200	-15.673	1.00	0.00	O
ATOM	6315	N	ASN	663	5.606	54.193	-16.378	1.00	0.00	N
ATOM	6316	HN	ASN	663	5.713	53.409	-17.021	1.00	0.00	H
ATOM	6317	CA	ASN	663	4.589	54.181	-15.376	1.00	0.00	C
ATOM	6318	CB	ASN	663	3.688	52.945	-15.520	1.00	0.00	C
ATOM	6319	CG	ASN	663	2.579	53.034	-14.489	1.00	0.00	C
ATOM	6320	OD1	ASN	663	2.824	52.993	-13.284	1.00	0.00	O
ATOM	6321	ND2	ASN	663	1.319	53.163	-14.983	1.00	0.00	N
ATOM	6322	1HD2	ASN	663	1.116	53.197	-15.982	1.00	0.00	H
ATOM	6323	2HD2	ASN	663	0.573	53.223	-14.290	1.00	0.00	H
ATOM	6324	C	ASN	663	5.206	54.146	-14.014	1.00	0.00	C
ATOM	6325	O	ASN	663	5.033	55.054	-13.203	1.00	0.00	O
ATOM	6326	N	LEU	664	6.046	53.135	-13.769	1.00	0.00	N
ATOM	6327	HN	LEU	664	6.319	52.516	-14.532	1.00	0.00	H
ATOM	6328	CA	LEU	664	6.568	52.905	-12.461	1.00	0.00	C
ATOM	6329	CB	LEU	664	7.407	51.621	-12.490	1.00	0.00	C
ATOM	6330	CG	LEU	664	7.576	50.980	-11.115	1.00	0.00	C
ATOM	6331	CD1	LEU	664	8.375	51.887	-10.192	1.00	0.00	C
ATOM	6332	CD2	LEU	664	6.213	50.575	-10.529	1.00	0.00	C
ATOM	6333	C	LEU	664	7.373	54.119	-12.095	1.00	0.00	C
ATOM	6334	O	LEU	664	7.376	54.555	-10.944	1.00	0.00	O
ATOM	6335	N	PHE	665	8.059	54.717	-13.088	1.00	0.00	N
ATOM	6336	HN	PHE	665	8.014	54.315	-14.024	1.00	0.00	H
ATOM	6337	CA	PHE	665	8.851	55.897	-12.883	1.00	0.00	C
ATOM	6338	CB	PHE	665	9.499	56.302	-14.225	1.00	0.00	C
ATOM	6339	CG	PHE	665	9.317	57.742	-14.552	1.00	0.00	C
ATOM	6340	CD1	PHE	665	10.176	58.711	-14.098	1.00	0.00	C
ATOM	6341	CD2	PHE	665	8.261	58.114	-15.352	1.00	0.00	C
ATOM	6342	CE1	PHE	665	9.963	60.025	-14.443	1.00	0.00	C
ATOM	6343	CE2	PHE	665	8.042	59.423	-15.699	1.00	0.00	C
ATOM	6344	CZ	PHE	665	8.902	60.387	-15.240	1.00	0.00	C
ATOM	6345	C	PHE	665	7.998	56.987	-12.298	1.00	0.00	C
ATOM	6346	O	PHE	665	8.242	57.426	-11.176	1.00	0.00	O
ATOM	6347	N	SER	666	6.913	57.389	-12.979	1.00	0.00	N
ATOM	6348	HN	SER	666	6.671	56.946	-13.866	1.00	0.00	H
ATOM	6349	CA	SER	666	6.095	58.445	-12.453	1.00	0.00	C
ATOM	6350	CB	SER	666	4.899	58.793	-13.357	1.00	0.00	C
ATOM	6351	OG	SER	666	4.094	59.786	-12.737	1.00	0.00	O
ATOM	6352	HG	SER	666	3.356	60.001	-13.295	1.00	0.00	H
ATOM	6353	C	SER	666	5.535	57.990	-11.145	1.00	0.00	C
ATOM	6354	O	SER	666	5.390	58.771	-10.206	1.00	0.00	O
ATOM	6355	N	LEU	667	5.251	56.682	-11.039	1.00	0.00	N
ATOM	6356	HN	LEU	667	5.485	56.056	-11.810	1.00	0.00	H
ATOM	6357	CA	LEU	667	4.628	56.148	-9.868	1.00	0.00	C
ATOM	6358	CB	LEU	667	4.515	54.612	-9.933	1.00	0.00	C
ATOM	6359	CG	LEU	667	3.536	53.983	-8.920	1.00	0.00	C
ATOM	6360	CD1	LEU	667	3.781	54.453	-7.477	1.00	0.00	C
ATOM	6361	CD2	LEU	667	2.086	54.148	-9.392	1.00	0.00	C

ATOM	6362	C	LEU	667	5.535	56.461	-8.725	1.00	0.00	C
ATOM	6363	O	LEU	667	5.078	56.917	-7.677	1.00	0.00	O
ATOM	6364	N	LEU	668	6.857	56.251	-8.900	1.00	0.00	N
ATOM	6365	HN	LEU	668	7.231	55.920	-9.789	1.00	0.00	H
ATOM	6366	CA	LEU	668	7.711	56.514	-7.781	1.00	0.00	C
ATOM	6367	CB	LEU	668	9.230	56.278	-7.953	1.00	0.00	C
ATOM	6368	CG	LEU	668	9.719	54.829	-8.140	1.00	0.00	C
ATOM	6369	CD1	LEU	668	9.761	54.419	-9.616	1.00	0.00	C
ATOM	6370	CD2	LEU	668	11.048	54.598	-7.407	1.00	0.00	C
ATOM	6371	C	LEU	668	7.604	57.965	-7.443	1.00	0.00	C
ATOM	6372	O	LEU	668	7.545	58.330	-6.271	1.00	0.00	O
ATOM	6373	N	PHE	669	7.600	58.833	-8.471	1.00	0.00	N
ATOM	6374	HN	PHE	669	7.616	58.477	-9.427	1.00	0.00	H
ATOM	6375	CA	PHE	669	7.573	60.249	-8.248	1.00	0.00	C
ATOM	6376	CB	PHE	669	7.681	61.018	-9.578	1.00	0.00	C
ATOM	6377	CG	PHE	669	7.406	62.457	-9.325	1.00	0.00	C
ATOM	6378	CD1	PHE	669	8.370	63.261	-8.770	1.00	0.00	C
ATOM	6379	CD2	PHE	669	6.177	63.001	-9.622	1.00	0.00	C
ATOM	6380	CE1	PHE	669	8.122	64.591	-8.530	1.00	0.00	C
ATOM	6381	CE2	PHE	669	5.923	64.331	-9.384	1.00	0.00	C
ATOM	6382	CZ	PHE	669	6.897	65.130	-8.838	1.00	0.00	C
ATOM	6383	C	PHE	669	6.321	60.688	-7.565	1.00	0.00	C
ATOM	6384	O	PHE	669	6.351	61.153	-6.429	1.00	0.00	O
ATOM	6385	N	LEU	670	5.168	60.443	-8.198	1.00	0.00	N
ATOM	6386	HN	LEU	670	5.173	59.878	-9.048	1.00	0.00	H
ATOM	6387	CA	LEU	670	3.929	60.959	-7.704	1.00	0.00	C
ATOM	6388	CB	LEU	670	2.752	60.467	-8.567	1.00	0.00	C
ATOM	6389	CG	LEU	670	1.357	60.927	-8.111	1.00	0.00	C
ATOM	6390	CD1	LEU	670	0.848	60.182	-6.863	1.00	0.00	C
ATOM	6391	CD2	LEU	670	1.331	62.451	-7.944	1.00	0.00	C
ATOM	6392	C	LEU	670	3.722	60.447	-6.328	1.00	0.00	C
ATOM	6393	O	LEU	670	3.407	61.211	-5.415	1.00	0.00	O
ATOM	6394	N	ALA	671	3.916	59.135	-6.135	1.00	0.00	N
ATOM	6395	HN	ALA	671	4.259	58.526	-6.878	1.00	0.00	H
ATOM	6396	CA	ALA	671	3.616	58.638	-4.834	1.00	0.00	C
ATOM	6397	CB	ALA	671	3.775	57.111	-4.740	1.00	0.00	C
ATOM	6398	C	ALA	671	4.527	59.242	-3.815	1.00	0.00	C
ATOM	6399	O	ALA	671	4.095	60.011	-2.962	1.00	0.00	O
ATOM	6400	N	LEU	672	5.842	59.019	-3.947	1.00	0.00	N
ATOM	6401	HN	LEU	672	6.214	58.548	-4.772	1.00	0.00	H
ATOM	6402	CA	LEU	672	6.710	59.460	-2.899	1.00	0.00	C
ATOM	6403	CB	LEU	672	8.157	59.021	-3.172	1.00	0.00	C
ATOM	6404	CG	LEU	672	9.188	59.417	-2.104	1.00	0.00	C
ATOM	6405	CD1	LEU	672	8.995	58.632	-0.798	1.00	0.00	C
ATOM	6406	CD2	LEU	672	10.604	59.282	-2.667	1.00	0.00	C
ATOM	6407	C	LEU	672	6.683	60.947	-2.800	1.00	0.00	C
ATOM	6408	O	LEU	672	6.290	61.479	-1.764	1.00	0.00	O
ATOM	6409	N	GLY	673	6.982	61.652	-3.912	1.00	0.00	N
ATOM	6410	HN	GLY	673	7.080	61.173	-4.807	1.00	0.00	H
ATOM	6411	CA	GLY	673	7.162	63.070	-3.837	1.00	0.00	C
ATOM	6412	C	GLY	673	5.938	63.723	-3.286	1.00	0.00	C
ATOM	6413	O	GLY	673	6.027	64.511	-2.346	1.00	0.00	O
ATOM	6414	N	ILE	674	4.752	63.416	-3.837	1.00	0.00	N
ATOM	6415	HN	ILE	674	4.675	62.714	-4.573	1.00	0.00	H
ATOM	6416	CA	ILE	674	3.599	64.114	-3.350	1.00	0.00	C
ATOM	6417	CB	ILE	674	2.388	63.926	-4.211	1.00	0.00	C
ATOM	6418	CG1	ILE	674	2.588	64.614	-5.575	1.00	0.00	C
ATOM	6419	CG2	ILE	674	1.177	64.453	-3.422	1.00	0.00	C
ATOM	6420	CD1	ILE	674	3.718	64.022	-6.416	1.00	0.00	C
ATOM	6421	C	ILE	674	3.224	63.711	-1.958	1.00	0.00	C
ATOM	6422	O	ILE	674	3.260	64.544	-1.057	1.00	0.00	O
ATOM	6423	N	ILE	675	2.996	62.403	-1.719	1.00	0.00	N
ATOM	6424	HN	ILE	675	3.242	61.716	-2.432	1.00	0.00	H
ATOM	6425	CA	ILE	675	2.414	61.953	-0.481	1.00	0.00	C
ATOM	6426	CB	ILE	675	2.285	60.462	-0.415	1.00	0.00	C
ATOM	6427	CG1	ILE	675	1.297	59.989	-1.498	1.00	0.00	C
ATOM	6428	CG2	ILE	675	1.880	60.076	1.017	1.00	0.00	C
ATOM	6429	CD1	ILE	675	1.254	58.475	-1.691	1.00	0.00	C
ATOM	6430	C	ILE	675	3.258	62.420	0.657	1.00	0.00	C
ATOM	6431	O	ILE	675	2.742	62.864	1.681	1.00	0.00	O
ATOM	6432	N	SER	676	4.587	62.343	0.520	1.00	0.00	N
ATOM	6433	HN	SER	676	5.001	61.979	-0.338	1.00	0.00	H
ATOM	6434	CA	SER	676	5.417	62.781	1.602	1.00	0.00	C
ATOM	6435	CB	SER	676	6.898	62.439	1.400	1.00	0.00	C

ATOM	6436	OG	SER	676	7.642	62.853	2.536	1.00	0.00	O
ATOM	6437	HG	SER	676	8.560	62.641	2.411	1.00	0.00	H
ATOM	6438	C	SER	676	5.317	64.260	1.775	1.00	0.00	C
ATOM	6439	O	SER	676	5.123	64.717	2.900	1.00	0.00	O
ATOM	6440	N	PHE	677	5.380	65.032	0.663	1.00	0.00	N
ATOM	6441	HN	PHE	677	5.448	64.581	-0.250	1.00	0.00	H
ATOM	6442	CA	PHE	677	5.354	66.467	0.732	1.00	0.00	C
ATOM	6443	CB	PHE	677	5.218	67.132	-0.644	1.00	0.00	C
ATOM	6444	CG	PHE	677	5.096	68.601	-0.424	1.00	0.00	C
ATOM	6445	CD1	PHE	677	3.865	69.185	-0.231	1.00	0.00	C
ATOM	6446	CD2	PHE	677	6.215	69.397	-0.405	1.00	0.00	C
ATOM	6447	CE1	PHE	677	3.751	70.541	-0.026	1.00	0.00	C
ATOM	6448	CE2	PHE	677	6.109	70.753	-0.200	1.00	0.00	C
ATOM	6449	CZ	PHE	677	4.876	71.329	-0.013	1.00	0.00	C
ATOM	6450	C	PHE	677	4.134	66.799	1.505	1.00	0.00	C
ATOM	6451	O	PHE	677	4.165	67.655	2.389	1.00	0.00	O
ATOM	6452	N	ILE	678	3.029	66.096	1.211	1.00	0.00	N
ATOM	6453	HN	ILE	678	3.011	65.403	0.463	1.00	0.00	H
ATOM	6454	CA	ILE	678	1.883	66.378	2.010	1.00	0.00	C
ATOM	6455	CB	ILE	678	0.562	65.871	1.506	1.00	0.00	C
ATOM	6456	CG1	ILE	678	-0.556	66.614	2.255	1.00	0.00	C
ATOM	6457	CG2	ILE	678	0.462	64.357	1.721	1.00	0.00	C
ATOM	6458	CD1	ILE	678	-0.589	68.122	2.002	1.00	0.00	C
ATOM	6459	C	ILE	678	2.089	65.907	3.419	1.00	0.00	C
ATOM	6460	O	ILE	678	1.904	66.710	4.327	1.00	0.00	O
ATOM	6461	N	THR	679	2.581	64.658	3.642	1.00	0.00	N
ATOM	6462	HN	THR	679	2.920	64.106	2.854	1.00	0.00	H
ATOM	6463	CA	THR	679	2.632	64.098	4.976	1.00	0.00	C
ATOM	6464	CB	THR	679	3.280	62.733	5.065	1.00	0.00	C
ATOM	6465	OG1	THR	679	3.031	62.165	6.342	1.00	0.00	O
ATOM	6466	HG1	THR	679	2.093	62.101	6.475	1.00	0.00	H
ATOM	6467	CG2	THR	679	4.797	62.836	4.850	1.00	0.00	C
ATOM	6468	C	THR	679	3.365	65.031	5.893	1.00	0.00	C
ATOM	6469	O	THR	679	2.903	65.291	7.004	1.00	0.00	O
ATOM	6470	N	PHE	680	4.512	65.578	5.445	1.00	0.00	N
ATOM	6471	HN	PHE	680	4.854	65.339	4.514	1.00	0.00	H
ATOM	6472	CA	PHE	680	5.259	66.493	6.260	1.00	0.00	C
ATOM	6473	CB	PHE	680	6.589	66.894	5.609	1.00	0.00	C
ATOM	6474	CG	PHE	680	7.537	65.760	5.807	1.00	0.00	C
ATOM	6475	CD1	PHE	680	7.306	64.531	5.232	1.00	0.00	C
ATOM	6476	CD2	PHE	680	8.677	65.940	6.555	1.00	0.00	C
ATOM	6477	CE1	PHE	680	8.192	63.495	5.417	1.00	0.00	C
ATOM	6478	CE2	PHE	680	9.568	64.910	6.740	1.00	0.00	C
ATOM	6479	CZ	PHE	680	9.325	63.683	6.172	1.00	0.00	C
ATOM	6480	C	PHE	680	4.454	67.716	6.495	1.00	0.00	C
ATOM	6481	O	PHE	680	4.181	68.033	7.647	1.00	0.00	O
ATOM	6482	N	PHE	681	3.950	68.353	5.417	1.00	0.00	N
ATOM	6483	HN	PHE	681	4.051	67.929	4.495	1.00	0.00	H
ATOM	6484	CA	PHE	681	3.274	69.615	5.539	1.00	0.00	C
ATOM	6485	CB	PHE	681	2.621	70.104	4.239	1.00	0.00	C
ATOM	6486	CG	PHE	681	1.960	71.396	4.583	1.00	0.00	C
ATOM	6487	CD1	PHE	681	2.674	72.571	4.585	1.00	0.00	C
ATOM	6488	CD2	PHE	681	0.624	71.432	4.913	1.00	0.00	C
ATOM	6489	CE1	PHE	681	2.066	73.762	4.905	1.00	0.00	C
ATOM	6490	CE2	PHE	681	0.009	72.620	5.235	1.00	0.00	C
ATOM	6491	CZ	PHE	681	0.731	73.789	5.231	1.00	0.00	C
ATOM	6492	C	PHE	681	2.173	69.490	6.540	1.00	0.00	C
ATOM	6493	O	PHE	681	2.062	70.327	7.431	1.00	0.00	O
ATOM	6494	N	LEU	682	1.350	68.432	6.434	1.00	0.00	N
ATOM	6495	HN	LEU	682	1.514	67.756	5.688	1.00	0.00	H
ATOM	6496	CA	LEU	682	0.248	68.218	7.332	1.00	0.00	C
ATOM	6497	CB	LEU	682	-0.516	66.939	6.922	1.00	0.00	C
ATOM	6498	CG	LEU	682	-1.673	66.489	7.838	1.00	0.00	C
ATOM	6499	CD1	LEU	682	-1.197	65.864	9.163	1.00	0.00	C
ATOM	6500	CD2	LEU	682	-2.677	67.630	8.043	1.00	0.00	C
ATOM	6501	C	LEU	682	0.732	68.023	8.741	1.00	0.00	C
ATOM	6502	O	LEU	682	0.360	68.763	9.649	1.00	0.00	O
ATOM	6503	N	GLN	683	1.626	67.039	8.935	1.00	0.00	N
ATOM	6504	HN	GLN	683	1.980	66.566	8.104	1.00	0.00	H
ATOM	6505	CA	GLN	683	2.131	66.590	10.206	1.00	0.00	C
ATOM	6506	CB	GLN	683	3.148	65.484	9.891	1.00	0.00	C
ATOM	6507	CG	GLN	683	3.880	64.787	11.026	1.00	0.00	C
ATOM	6508	CD	GLN	683	4.775	63.783	10.302	1.00	0.00	C
ATOM	6509	OE1	GLN	683	5.301	62.848	10.901	1.00	0.00	O



ATOM	6510	NE2	GLN	683	4.936	63.973	8.965	1.00	0.00	N
ATOM	6511	1HE2	GLN	683	5.534	63.303	8.482	1.00	0.00	H
ATOM	6512	2HE2	GLN	683	4.499	64.749	8.468	1.00	0.00	H
ATOM	6513	C	GLN	683	2.818	67.724	10.895	1.00	0.00	C
ATOM	6514	O	GLN	683	2.590	67.986	12.074	1.00	0.00	O
ATOM	6515	N	GLY	684	3.663	68.450	10.153	1.00	0.00	N
ATOM	6516	HN	GLY	684	3.786	68.201	9.172	1.00	0.00	H
ATOM	6517	CA	GLY	684	4.401	69.559	10.674	1.00	0.00	C
ATOM	6518	C	GLY	684	3.413	70.599	11.079	1.00	0.00	C
ATOM	6519	O	GLY	684	3.637	71.337	12.035	1.00	0.00	O
ATOM	6520	N	PHE	685	2.314	70.719	10.312	1.00	0.00	N
ATOM	6521	HN	PHE	685	2.198	70.099	9.510	1.00	0.00	H
ATOM	6522	CA	PHE	685	1.302	71.694	10.592	1.00	0.00	C
ATOM	6523	CB	PHE	685	0.171	71.654	9.547	1.00	0.00	C
ATOM	6524	CG	PHE	685	-0.903	72.608	9.951	1.00	0.00	C
ATOM	6525	CD1	PHE	685	-0.856	73.934	9.587	1.00	0.00	C
ATOM	6526	CD2	PHE	685	-1.969	72.166	10.698	1.00	0.00	C
ATOM	6527	CE1	PHE	685	-1.856	74.801	9.965	1.00	0.00	C
ATOM	6528	CE2	PHE	685	-2.972	73.026	11.080	1.00	0.00	C
ATOM	6529	CZ	PHE	685	-2.917	74.349	10.713	1.00	0.00	C
ATOM	6530	C	PHE	685	0.686	71.420	11.930	1.00	0.00	C
ATOM	6531	O	PHE	685	0.660	72.292	12.794	1.00	0.00	O
ATOM	6532	N	THR	686	0.182	70.188	12.128	1.00	0.00	N
ATOM	6533	HN	THR	686	0.311	69.494	11.392	1.00	0.00	H
ATOM	6534	CA	THR	686	-0.527	69.790	13.313	1.00	0.00	C
ATOM	6535	CB	THR	686	-1.026	68.390	13.142	1.00	0.00	C
ATOM	6536	OG1	THR	686	-1.852	68.312	11.995	1.00	0.00	O
ATOM	6537	HG1	THR	686	-2.169	67.423	11.886	1.00	0.00	H
ATOM	6538	CG2	THR	686	-1.807	67.968	14.383	1.00	0.00	C
ATOM	6539	C	THR	686	0.341	69.783	14.539	1.00	0.00	C
ATOM	6540	O	THR	686	0.093	70.533	15.482	1.00	0.00	O
ATOM	6541	N	PHE	687	1.409	68.953	14.542	1.00	0.00	N
ATOM	6542	HN	PHE	687	1.650	68.433	13.698	1.00	0.00	H
ATOM	6543	CA	PHE	687	2.206	68.801	15.728	1.00	0.00	C
ATOM	6544	CB	PHE	687	3.125	67.552	15.798	1.00	0.00	C
ATOM	6545	CG	PHE	687	4.309	67.605	14.895	1.00	0.00	C
ATOM	6546	CD1	PHE	687	5.373	68.415	15.210	1.00	0.00	C
ATOM	6547	CD2	PHE	687	4.389	66.811	13.774	1.00	0.00	C
ATOM	6548	CE1	PHE	687	6.484	68.463	14.402	1.00	0.00	C
ATOM	6549	CE2	PHE	687	5.498	66.855	12.960	1.00	0.00	C
ATOM	6550	CZ	PHE	687	6.547	67.685	13.272	1.00	0.00	C
ATOM	6551	C	PHE	687	2.980	70.049	15.987	1.00	0.00	C
ATOM	6552	O	PHE	687	3.217	70.406	17.138	1.00	0.00	O
ATOM	6553	N	GLY	688	3.419	70.744	14.924	1.00	0.00	N
ATOM	6554	HN	GLY	688	3.238	70.408	13.978	1.00	0.00	H
ATOM	6555	CA	GLY	688	4.144	71.962	15.134	1.00	0.00	C
ATOM	6556	C	GLY	688	3.229	72.905	15.857	1.00	0.00	C
ATOM	6557	O	GLY	688	3.640	73.580	16.799	1.00	0.00	O
ATOM	6558	N	LYS	689	1.945	72.936	15.445	1.00	0.00	N
ATOM	6559	HN	LYS	689	1.667	72.305	14.693	1.00	0.00	H
ATOM	6560	CA	LYS	689	0.945	73.805	16.002	1.00	0.00	C
ATOM	6561	CB	LYS	689	-0.423	73.641	15.307	1.00	0.00	C
ATOM	6562	CG	LYS	689	-1.509	74.608	15.789	1.00	0.00	C
ATOM	6563	CD	LYS	689	-2.089	74.272	17.162	1.00	0.00	C
ATOM	6564	CE	LYS	689	-3.527	73.747	17.090	1.00	0.00	C
ATOM	6565	NZ	LYS	689	-3.700	72.896	15.891	1.00	0.00	N
ATOM	6566	HZ1	LYS	689	-4.657	72.547	15.843	1.00	0.00	H
ATOM	6567	HZ2	LYS	689	-3.016	72.140	15.858	1.00	0.00	H
ATOM	6568	HZ3	LYS	689	-3.428	73.382	15.036	1.00	0.00	H
ATOM	6569	C	LYS	689	0.819	73.475	17.452	1.00	0.00	C
ATOM	6570	O	LYS	689	0.530	74.349	18.267	1.00	0.00	O
ATOM	6571	N	ALA	690	1.010	72.189	17.801	1.00	0.00	N
ATOM	6572	HN	ALA	690	1.183	71.500	17.069	1.00	0.00	H
ATOM	6573	CA	ALA	690	0.978	71.756	19.167	1.00	0.00	C
ATOM	6574	CB	ALA	690	1.181	70.239	19.318	1.00	0.00	C
ATOM	6575	C	ALA	690	2.100	72.435	19.885	1.00	0.00	C
ATOM	6576	O	ALA	690	1.971	72.804	21.050	1.00	0.00	O
ATOM	6577	N	GLY	691	3.257	72.573	19.210	1.00	0.00	N
ATOM	6578	HN	GLY	691	3.330	72.200	18.263	1.00	0.00	H
ATOM	6579	CA	GLY	691	4.389	73.233	19.794	1.00	0.00	C
ATOM	6580	C	GLY	691	4.056	74.679	19.987	1.00	0.00	C
ATOM	6581	O	GLY	691	4.405	75.271	21.006	1.00	0.00	O
ATOM	6582	N	GLU	692	3.381	75.299	18.997	1.00	0.00	N
ATOM	6583	HN	GLU	692	3.082	74.780	18.171	1.00	0.00	H

ATOM	6584	CA	GLU	692	3.090	76.695	19.121	1.00	0.00	C
ATOM	6585	CB	GLU	692	2.188	77.207	17.985	1.00	0.00	C
ATOM	6586	CG	GLU	692	2.766	77.014	16.590	1.00	0.00	C
ATOM	6587	CD	GLU	692	1.681	77.280	15.563	1.00	0.00	C
ATOM	6588	OE1	GLU	692	0.724	78.023	15.903	1.00	0.00	O
ATOM	6589	OE2	GLU	692	1.789	76.736	14.430	1.00	0.00	O
ATOM	6590	C	GLU	692	2.257	76.867	20.343	1.00	0.00	C
ATOM	6591	O	GLU	692	2.714	77.401	21.348	1.00	0.00	O
ATOM	6592	N	ILE	693	1.057	76.260	20.328	1.00	0.00	N
ATOM	6593	HN	ILE	693	0.834	75.632	19.556	1.00	0.00	H
ATOM	6594	CA	ILE	693	0.082	76.463	21.356	1.00	0.00	C
ATOM	6595	CB	ILE	693	-1.162	75.652	21.087	1.00	0.00	C
ATOM	6596	CG1	ILE	693	-2.292	75.957	22.080	1.00	0.00	C
ATOM	6597	CG2	ILE	693	-0.770	74.167	21.021	1.00	0.00	C
ATOM	6598	CD1	ILE	693	-2.093	75.428	23.501	1.00	0.00	C
ATOM	6599	C	ILE	693	0.657	76.083	22.674	1.00	0.00	C
ATOM	6600	O	ILE	693	0.581	76.875	23.610	1.00	0.00	O
ATOM	6601	N	LEU	694	1.321	74.916	22.762	1.00	0.00	N
ATOM	6602	HN	LEU	694	1.488	74.368	21.918	1.00	0.00	H
ATOM	6603	CA	LEU	694	1.796	74.434	24.021	1.00	0.00	C
ATOM	6604	CB	LEU	694	2.540	73.091	23.905	1.00	0.00	C
ATOM	6605	CG	LEU	694	2.771	72.342	25.237	1.00	0.00	C
ATOM	6606	CD1	LEU	694	3.518	71.025	24.982	1.00	0.00	C
ATOM	6607	CD2	LEU	694	3.444	73.208	26.314	1.00	0.00	C
ATOM	6608	C	LEU	694	2.716	75.474	24.581	1.00	0.00	C
ATOM	6609	O	LEU	694	2.623	75.774	25.764	1.00	0.00	O
ATOM	6610	N	THR	695	3.608	76.066	23.759	1.00	0.00	N
ATOM	6611	HN	THR	695	3.637	75.779	22.781	1.00	0.00	H
ATOM	6612	CA	THR	695	4.522	77.088	24.208	1.00	0.00	C
ATOM	6613	CB	THR	695	5.499	77.489	23.143	1.00	0.00	C
ATOM	6614	OG1	THR	695	6.300	76.383	22.761	1.00	0.00	O
ATOM	6615	HG1	THR	695	5.758	75.674	22.434	1.00	0.00	H
ATOM	6616	CG2	THR	695	6.374	78.634	23.672	1.00	0.00	C
ATOM	6617	C	THR	695	3.798	78.346	24.608	1.00	0.00	C
ATOM	6618	O	THR	695	4.132	78.954	25.623	1.00	0.00	O
ATOM	6619	N	LYS	696	2.827	78.801	23.787	1.00	0.00	N
ATOM	6620	HN	LYS	696	2.591	78.251	22.961	1.00	0.00	H
ATOM	6621	CA	LYS	696	2.109	80.026	24.024	1.00	0.00	C
ATOM	6622	CB	LYS	696	1.163	80.397	22.866	1.00	0.00	C
ATOM	6623	CG	LYS	696	1.864	80.745	21.551	1.00	0.00	C
ATOM	6624	CD	LYS	696	0.904	80.853	20.361	1.00	0.00	C
ATOM	6625	CE	LYS	696	0.444	79.502	19.808	1.00	0.00	C
ATOM	6626	NZ	LYS	696	-0.480	79.710	18.671	1.00	0.00	N
ATOM	6627	HZ1	LYS	696	-0.787	78.810	18.302	1.00	0.00	H
ATOM	6628	HZ2	LYS	696	-0.069	80.300	17.947	1.00	0.00	H
ATOM	6629	HZ3	LYS	696	-1.267	80.309	18.922	1.00	0.00	H
ATOM	6630	C	LYS	696	1.249	79.925	25.226	1.00	0.00	C
ATOM	6631	O	LYS	696	1.398	80.701	26.166	1.00	0.00	O
ATOM	6632	N	ARG	697	0.369	78.912	25.246	1.00	0.00	N
ATOM	6633	HN	ARG	697	0.351	78.245	24.474	1.00	0.00	H
ATOM	6634	CA	ARG	697	-0.539	78.757	26.330	1.00	0.00	C
ATOM	6635	CB	ARG	697	-1.455	77.526	26.227	1.00	0.00	C
ATOM	6636	CG	ARG	697	-0.704	76.198	26.205	1.00	0.00	C
ATOM	6637	CD	ARG	697	-1.625	74.994	26.381	1.00	0.00	C
ATOM	6638	NE	ARG	697	-2.126	75.023	27.782	1.00	0.00	N
ATOM	6639	HE	ARG	697	-2.019	75.861	28.353	1.00	0.00	H
ATOM	6640	CZ	ARG	697	-2.730	73.912	28.289	1.00	0.00	C
ATOM	6641	NH1	ARG	697	-2.895	72.816	27.491	1.00	0.00	N
ATOM	6642	1HH1	ARG	697	-3.347	71.984	27.871	1.00	0.00	H
ATOM	6643	2HH1	ARG	697	-2.582	72.826	26.520	1.00	0.00	H
ATOM	6644	NH2	ARG	697	-3.149	73.898	29.588	1.00	0.00	N
ATOM	6645	1HH2	ARG	697	-3.601	73.066	29.968	1.00	0.00	H
ATOM	6646	2HH2	ARG	697	-3.026	74.717	30.184	1.00	0.00	H
ATOM	6647	C	ARG	697	0.336	78.577	27.522	1.00	0.00	C
ATOM	6648	O	ARG	697	-0.085	78.876	28.632	1.00	0.00	O
ATOM	6649	N	LEU	698	1.549	78.016	27.325	1.00	0.00	N
ATOM	6650	HN	LEU	698	1.821	77.749	26.379	1.00	0.00	H
ATOM	6651	CA	LEU	698	2.470	77.782	28.404	1.00	0.00	C
ATOM	6652	CB	LEU	698	3.666	76.892	28.011	1.00	0.00	C
ATOM	6653	CG	LEU	698	4.449	76.260	29.181	1.00	0.00	C
ATOM	6654	CD1	LEU	698	5.103	77.305	30.099	1.00	0.00	C
ATOM	6655	CD2	LEU	698	3.569	75.245	29.931	1.00	0.00	C
ATOM	6656	C	LEU	698	3.048	79.062	28.945	1.00	0.00	C
ATOM	6657	O	LEU	698	2.949	79.306	30.142	1.00	0.00	O

ATOM	6658	N	ARG	699	3.626	79.941	28.090	1.00	0.00	N
ATOM	6659	HN	ARG	699	3.613	79.759	27.086	1.00	0.00	H
ATOM	6660	CA	ARG	699	4.258	81.130	28.596	1.00	0.00	C
ATOM	6661	CB	ARG	699	4.872	82.036	27.514	1.00	0.00	C
ATOM	6662	CG	ARG	699	6.108	81.426	26.851	1.00	0.00	C
ATOM	6663	CD	ARG	699	6.941	82.431	26.054	1.00	0.00	C
ATOM	6664	NE	ARG	699	7.986	81.658	25.326	1.00	0.00	N
ATOM	6665	HE	ARG	699	8.096	80.659	25.500	1.00	0.00	H
ATOM	6666	CZ	ARG	699	8.796	82.288	24.426	1.00	0.00	C
ATOM	6667	NH1	ARG	699	8.673	83.633	24.230	1.00	0.00	N
ATOM	6668	1HH1	ARG	699	9.278	84.104	23.557	1.00	0.00	H
ATOM	6669	2HH1	ARG	699	7.988	84.167	24.765	1.00	0.00	H
ATOM	6670	NH2	ARG	699	9.711	81.574	23.711	1.00	0.00	N
ATOM	6671	1HH2	ARG	699	10.316	82.045	23.038	1.00	0.00	H
ATOM	6672	2HH2	ARG	699	9.803	80.569	23.857	1.00	0.00	H
ATOM	6673	C	ARG	699	3.207	81.897	29.308	1.00	0.00	C
ATOM	6674	O	ARG	699	3.468	82.513	30.337	1.00	0.00	O
ATOM	6675	N	TYR	700	1.983	81.878	28.757	1.00	0.00	N
ATOM	6676	HN	TYR	700	1.839	81.375	27.881	1.00	0.00	H
ATOM	6677	CA	TYR	700	0.879	82.544	29.367	1.00	0.00	C
ATOM	6678	CB	TYR	700	-0.376	82.496	28.487	1.00	0.00	C
ATOM	6679	CG	TYR	700	-1.464	83.196	29.217	1.00	0.00	C
ATOM	6680	CD1	TYR	700	-1.512	84.568	29.252	1.00	0.00	C
ATOM	6681	CD2	TYR	700	-2.421	82.478	29.892	1.00	0.00	C
ATOM	6682	CE1	TYR	700	-2.518	85.214	29.931	1.00	0.00	C
ATOM	6683	CE2	TYR	700	-3.428	83.118	30.570	1.00	0.00	C
ATOM	6684	CZ	TYR	700	-3.481	84.488	30.589	1.00	0.00	C
ATOM	6685	OH	TYR	700	-4.520	85.139	31.286	1.00	0.00	O
ATOM	6686	HH	TYR	700	-5.186	84.637	31.741	1.00	0.00	H
ATOM	6687	C	TYR	700	0.574	81.892	30.668	1.00	0.00	C
ATOM	6688	O	TYR	700	0.540	82.562	31.695	1.00	0.00	O
ATOM	6689	N	MET	701	0.439	80.553	30.676	1.00	0.00	N
ATOM	6690	HN	MET	701	0.622	80.017	29.828	1.00	0.00	H
ATOM	6691	CA	MET	701	0.039	79.883	31.873	1.00	0.00	C
ATOM	6692	CB	MET	701	-0.027	78.351	31.736	1.00	0.00	C
ATOM	6693	CG	MET	701	-1.211	77.852	30.905	1.00	0.00	C
ATOM	6694	SD	MET	701	-1.254	76.053	30.636	1.00	0.00	S
ATOM	6695	CE	MET	701	-1.845	75.616	32.297	1.00	0.00	C
ATOM	6696	C	MET	701	1.045	80.185	32.932	1.00	0.00	C
ATOM	6697	O	MET	701	0.677	80.550	34.045	1.00	0.00	O
ATOM	6698	N	VAL	702	2.345	80.093	32.602	1.00	0.00	N
ATOM	6699	HN	VAL	702	2.609	79.868	31.643	1.00	0.00	H
ATOM	6700	CA	VAL	702	3.360	80.308	33.587	1.00	0.00	C
ATOM	6701	CB	VAL	702	4.736	79.931	33.103	1.00	0.00	C
ATOM	6702	CG1	VAL	702	5.275	80.977	32.117	1.00	0.00	C
ATOM	6703	CG2	VAL	702	5.619	79.706	34.336	1.00	0.00	C
ATOM	6704	C	VAL	702	3.368	81.734	34.054	1.00	0.00	C
ATOM	6705	O	VAL	702	3.403	81.986	35.256	1.00	0.00	O
ATOM	6706	N	PHE	703	3.293	82.710	33.124	1.00	0.00	N
ATOM	6707	HN	PHE	703	3.146	82.466	32.145	1.00	0.00	H
ATOM	6708	CA	PHE	703	3.419	84.091	33.504	1.00	0.00	C
ATOM	6709	CB	PHE	703	3.334	85.062	32.316	1.00	0.00	C
ATOM	6710	CG	PHE	703	4.001	86.327	32.740	1.00	0.00	C
ATOM	6711	CD1	PHE	703	3.500	87.087	33.770	1.00	0.00	C
ATOM	6712	CD2	PHE	703	5.172	86.719	32.133	1.00	0.00	C
ATOM	6713	CE1	PHE	703	4.138	88.244	34.156	1.00	0.00	C
ATOM	6714	CE2	PHE	703	5.811	87.875	32.513	1.00	0.00	C
ATOM	6715	CZ	PHE	703	5.291	88.644	33.525	1.00	0.00	C
ATOM	6716	C	PHE	703	2.291	84.438	34.406	1.00	0.00	C
ATOM	6717	O	PHE	703	2.477	85.000	35.484	1.00	0.00	O
ATOM	6718	N	ARG	704	1.075	84.072	33.984	1.00	0.00	N
ATOM	6719	HN	ARG	704	0.973	83.580	33.097	1.00	0.00	H
ATOM	6720	CA	ARG	704	-0.074	84.365	34.764	1.00	0.00	C
ATOM	6721	CB	ARG	704	-1.382	83.935	34.094	1.00	0.00	C
ATOM	6722	CG	ARG	704	-1.805	84.900	32.989	1.00	0.00	C
ATOM	6723	CD	ARG	704	-2.192	86.274	33.533	1.00	0.00	C
ATOM	6724	NE	ARG	704	-3.195	86.049	34.612	1.00	0.00	N
ATOM	6725	HE	ARG	704	-3.051	85.309	35.299	1.00	0.00	H
ATOM	6726	CZ	ARG	704	-4.307	86.837	34.678	1.00	0.00	C
ATOM	6727	NH1	ARG	704	-4.518	87.783	33.721	1.00	0.00	N
ATOM	6728	1HH1	ARG	704	-3.840	87.904	32.969	1.00	0.00	H
ATOM	6729	2HH1	ARG	704	-5.349	88.372	33.770	1.00	0.00	H
ATOM	6730	NH2	ARG	704	-5.215	86.675	35.685	1.00	0.00	N
ATOM	6731	1HH2	ARG	704	-5.057	85.967	36.402	1.00	0.00	H

ATOM	6732	2HH2	ARG	704	-6.046	87.264	35.734	1.00	0.00	H
ATOM	6733	C	ARG	704	0.083	83.638	36.041	1.00	0.00	C
ATOM	6734	O	ARG	704	-0.378	84.133	37.060	1.00	0.00	O
ATOM	6735	N	SER	705	0.735	82.458	36.033	1.00	0.00	N
ATOM	6736	HN	SER	705	1.112	82.086	35.161	1.00	0.00	H
ATOM	6737	CA	SER	705	0.895	81.728	37.258	1.00	0.00	C
ATOM	6738	CB	SER	705	1.767	80.467	37.111	1.00	0.00	C
ATOM	6739	OG	SER	705	1.087	79.477	36.354	1.00	0.00	O
ATOM	6740	HG	SER	705	1.625	78.699	36.263	1.00	0.00	H
ATOM	6741	C	SER	705	1.593	82.646	38.201	1.00	0.00	C
ATOM	6742	O	SER	705	1.267	82.688	39.385	1.00	0.00	O
ATOM	6743	N	MET	706	2.585	83.391	37.682	1.00	0.00	N
ATOM	6744	HN	MET	706	2.823	83.265	36.698	1.00	0.00	H
ATOM	6745	CA	MET	706	3.322	84.352	38.445	1.00	0.00	C
ATOM	6746	CB	MET	706	4.497	84.915	37.628	1.00	0.00	C
ATOM	6747	CG	MET	706	5.535	83.865	37.225	1.00	0.00	C
ATOM	6748	SD	MET	706	6.660	84.398	35.898	1.00	0.00	S
ATOM	6749	CE	MET	706	7.749	82.947	35.969	1.00	0.00	C
ATOM	6750	C	MET	706	2.496	85.543	38.851	1.00	0.00	C
ATOM	6751	O	MET	706	2.414	85.875	40.030	1.00	0.00	O
ATOM	6752	N	LEU	707	1.823	86.212	37.890	1.00	0.00	N
ATOM	6753	HN	LEU	707	1.826	85.874	36.928	1.00	0.00	H
ATOM	6754	CA	LEU	707	1.103	87.405	38.239	1.00	0.00	C
ATOM	6755	CB	LEU	707	0.496	88.145	37.045	1.00	0.00	C
ATOM	6756	CG	LEU	707	1.555	88.888	36.218	1.00	0.00	C
ATOM	6757	CD1	LEU	707	0.904	89.662	35.066	1.00	0.00	C
ATOM	6758	CD2	LEU	707	2.432	89.779	37.115	1.00	0.00	C
ATOM	6759	C	LEU	707	0.005	87.059	39.183	1.00	0.00	C
ATOM	6760	O	LEU	707	-0.234	87.778	40.153	1.00	0.00	O
ATOM	6761	N	ARG	708	-0.695	85.950	38.894	1.00	0.00	N
ATOM	6762	HN	ARG	708	-0.449	85.432	38.051	1.00	0.00	H
ATOM	6763	CA	ARG	708	-1.768	85.453	39.703	1.00	0.00	C
ATOM	6764	CB	ARG	708	-2.356	84.121	39.209	1.00	0.00	C
ATOM	6765	CG	ARG	708	-3.004	84.098	37.826	1.00	0.00	C
ATOM	6766	CD	ARG	708	-3.172	82.657	37.332	1.00	0.00	C
ATOM	6767	NE	ARG	708	-3.836	82.686	36.001	1.00	0.00	N
ATOM	6768	HE	ARG	708	-4.583	83.356	35.817	1.00	0.00	H
ATOM	6769	CZ	ARG	708	-3.443	81.814	35.027	1.00	0.00	C
ATOM	6770	NH1	ARG	708	-2.408	80.955	35.260	1.00	0.00	N
ATOM	6771	1HH1	ARG	708	-2.114	80.303	34.532	1.00	0.00	H
ATOM	6772	2HH1	ARG	708	-1.933	80.961	36.163	1.00	0.00	H
ATOM	6773	NH2	ARG	708	-4.078	81.806	33.820	1.00	0.00	N
ATOM	6774	1HH2	ARG	708	-3.784	81.154	33.092	1.00	0.00	H
ATOM	6775	2HH2	ARG	708	-4.851	82.448	33.646	1.00	0.00	H
ATOM	6776	C	ARG	708	-1.161	85.079	40.990	1.00	0.00	C
ATOM	6777	O	ARG	708	-1.662	85.428	42.058	1.00	0.00	O
ATOM	6778	N	GLN	709	-0.017	84.370	40.924	1.00	0.00	N
ATOM	6779	HN	GLN	709	0.418	84.107	40.040	1.00	0.00	H
ATOM	6780	CA	GLN	709	0.532	84.020	42.180	1.00	0.00	C
ATOM	6781	CB	GLN	709	1.582	82.897	42.234	1.00	0.00	C
ATOM	6782	CG	GLN	709	2.925	83.104	41.557	1.00	0.00	C
ATOM	6783	CD	GLN	709	3.756	81.959	42.111	1.00	0.00	C
ATOM	6784	OE1	GLN	709	4.472	81.271	41.387	1.00	0.00	O
ATOM	6785	NE2	GLN	709	3.641	81.747	43.451	1.00	0.00	N
ATOM	6786	1HE2	GLN	709	4.199	80.978	43.823	1.00	0.00	H
ATOM	6787	2HE2	GLN	709	3.047	82.318	44.052	1.00	0.00	H
ATOM	6788	C	GLN	709	1.012	85.298	42.740	1.00	0.00	C
ATOM	6789	O	GLN	709	0.998	86.333	42.080	1.00	0.00	O
ATOM	6790	N	ASP	710	1.330	85.291	44.025	1.00	0.00	N
ATOM	6791	HN	ASP	710	1.281	84.422	44.557	1.00	0.00	H
ATOM	6792	CA	ASP	710	1.738	86.487	44.663	1.00	0.00	C
ATOM	6793	CB	ASP	710	0.612	87.481	45.011	1.00	0.00	C
ATOM	6794	CG	ASP	710	0.169	88.275	43.810	1.00	0.00	C
ATOM	6795	OD1	ASP	710	1.070	88.681	43.034	1.00	0.00	O
ATOM	6796	OD2	ASP	710	-1.060	88.504	43.654	1.00	0.00	O
ATOM	6797	C	ASP	710	2.067	85.999	45.990	1.00	0.00	C
ATOM	6798	O	ASP	710	2.572	84.890	46.149	1.00	0.00	O
ATOM	6799	N	VAL	711	1.692	86.843	46.962	1.00	0.00	N
ATOM	6800	HN	VAL	711	1.204	87.699	46.698	1.00	0.00	H
ATOM	6801	CA	VAL	711	1.938	86.608	48.331	1.00	0.00	C
ATOM	6802	CB	VAL	711	1.130	85.570	49.067	1.00	0.00	C
ATOM	6803	CG1	VAL	711	-0.274	86.160	49.222	1.00	0.00	C
ATOM	6804	CG2	VAL	711	1.153	84.204	48.369	1.00	0.00	C
ATOM	6805	C	VAL	711	3.391	86.467	48.505	1.00	0.00	C

ATOM	6806	O	VAL	711	4.162	87.085	47.777	1.00	0.00	O
ATOM	6807	N	SER	712	3.776	85.604	49.447	1.00	0.00	N
ATOM	6808	HN	SER	712	3.049	85.026	49.868	1.00	0.00	H
ATOM	6809	CA	SER	712	5.106	85.413	49.921	1.00	0.00	C
ATOM	6810	CB	SER	712	5.160	84.157	50.786	1.00	0.00	C
ATOM	6811	OG	SER	712	4.095	84.195	51.724	1.00	0.00	O
ATOM	6812	HG	SER	712	4.129	83.413	52.262	1.00	0.00	H
ATOM	6813	C	SER	712	6.050	85.165	48.794	1.00	0.00	C
ATOM	6814	O	SER	712	7.260	85.176	49.011	1.00	0.00	O
ATOM	6815	N	TRP	713	5.548	84.901	47.577	1.00	0.00	N
ATOM	6816	HN	TRP	713	4.540	84.902	47.419	1.00	0.00	H
ATOM	6817	CA	TRP	713	6.455	84.618	46.505	1.00	0.00	C
ATOM	6818	CB	TRP	713	5.688	84.348	45.199	1.00	0.00	C
ATOM	6819	CG	TRP	713	6.486	83.765	44.057	1.00	0.00	C
ATOM	6820	CD2	TRP	713	6.993	82.419	44.053	1.00	0.00	C
ATOM	6821	CD1	TRP	713	6.867	84.325	42.874	1.00	0.00	C
ATOM	6822	NE1	TRP	713	7.551	83.402	42.116	1.00	0.00	N
ATOM	6823	HE1	TRP	713	7.927	83.560	41.181	1.00	0.00	H
ATOM	6824	CE2	TRP	713	7.642	82.226	42.834	1.00	0.00	C
ATOM	6825	CE3	TRP	713	6.917	81.425	44.987	1.00	0.00	C
ATOM	6826	CZ2	TRP	713	8.224	81.026	42.530	1.00	0.00	C
ATOM	6827	CZ3	TRP	713	7.511	80.220	44.682	1.00	0.00	C
ATOM	6828	CH2	TRP	713	8.150	80.025	43.475	1.00	0.00	C
ATOM	6829	C	TRP	713	7.403	85.773	46.351	1.00	0.00	C
ATOM	6830	O	TRP	713	8.564	85.639	46.705	1.00	0.00	O
ATOM	6831	N	PHE	714	6.951	86.939	45.858	1.00	0.00	N
ATOM	6832	HN	PHE	714	5.989	86.972	45.521	1.00	0.00	H
ATOM	6833	CA	PHE	714	7.733	88.145	45.774	1.00	0.00	C
ATOM	6834	CB	PHE	714	7.086	89.161	44.823	1.00	0.00	C
ATOM	6835	CG	PHE	714	7.122	88.629	43.429	1.00	0.00	C
ATOM	6836	CD1	PHE	714	6.354	87.550	43.053	1.00	0.00	C
ATOM	6837	CD2	PHE	714	7.905	89.240	42.480	1.00	0.00	C
ATOM	6838	CE1	PHE	714	6.389	87.080	41.760	1.00	0.00	C
ATOM	6839	CE2	PHE	714	7.941	88.777	41.187	1.00	0.00	C
ATOM	6840	CZ	PHE	714	7.184	87.692	40.822	1.00	0.00	C
ATOM	6841	C	PHE	714	7.712	88.768	47.138	1.00	0.00	C
ATOM	6842	O	PHE	714	8.619	89.499	47.528	1.00	0.00	O
ATOM	6843	N	ASP	715	6.615	88.518	47.879	1.00	0.00	N
ATOM	6844	HN	ASP	715	5.918	87.875	47.504	1.00	0.00	H
ATOM	6845	CA	ASP	715	6.371	89.104	49.166	1.00	0.00	C
ATOM	6846	CB	ASP	715	5.023	88.726	49.793	1.00	0.00	C
ATOM	6847	CG	ASP	715	3.930	89.488	49.057	1.00	0.00	C
ATOM	6848	OD1	ASP	715	4.229	90.093	47.992	1.00	0.00	O
ATOM	6849	OD2	ASP	715	2.773	89.467	49.553	1.00	0.00	O
ATOM	6850	C	ASP	715	7.447	88.711	50.133	1.00	0.00	C
ATOM	6851	O	ASP	715	7.684	89.433	51.102	1.00	0.00	O
ATOM	6852	N	ASP	716	8.045	87.515	49.954	1.00	0.00	N
ATOM	6853	HN	ASP	716	7.681	86.897	49.229	1.00	0.00	H
ATOM	6854	CA	ASP	716	9.168	87.064	50.730	1.00	0.00	C
ATOM	6855	CB	ASP	716	8.735	86.264	51.971	1.00	0.00	C
ATOM	6856	CG	ASP	716	9.815	86.391	53.033	1.00	0.00	C
ATOM	6857	OD1	ASP	716	10.237	87.549	53.297	1.00	0.00	O
ATOM	6858	OD2	ASP	716	10.234	85.343	53.595	1.00	0.00	O
ATOM	6859	C	ASP	716	9.861	86.121	49.786	1.00	0.00	C
ATOM	6860	O	ASP	716	9.728	84.904	49.893	1.00	0.00	O
ATOM	6861	N	PRO	717	10.591	86.705	48.866	1.00	0.00	N
ATOM	6862	CA	PRO	717	11.104	86.065	47.680	1.00	0.00	C
ATOM	6863	CD	PRO	717	10.725	88.149	48.811	1.00	0.00	C
ATOM	6864	CB	PRO	717	11.230	87.185	46.648	1.00	0.00	C
ATOM	6865	CG	PRO	717	11.501	88.428	47.509	1.00	0.00	C
ATOM	6866	C	PRO	717	12.358	85.270	47.653	1.00	0.00	C
ATOM	6867	O	PRO	717	13.152	85.308	48.594	1.00	0.00	O
ATOM	6868	N	LYS	718	12.511	84.536	46.525	1.00	0.00	N
ATOM	6869	HN	LYS	718	11.722	84.497	45.880	1.00	0.00	H
ATOM	6870	CA	LYS	718	13.688	83.813	46.167	1.00	0.00	C
ATOM	6871	CB	LYS	718	13.686	82.356	46.660	1.00	0.00	C
ATOM	6872	CG	LYS	718	13.821	82.210	48.174	1.00	0.00	C
ATOM	6873	CD	LYS	718	12.577	82.636	48.950	1.00	0.00	C
ATOM	6874	CE	LYS	718	12.740	82.518	50.464	1.00	0.00	C
ATOM	6875	NZ	LYS	718	13.925	83.288	50.896	1.00	0.00	N
ATOM	6876	HZ1	LYS	718	14.034	83.209	51.907	1.00	0.00	H
ATOM	6877	HZ2	LYS	718	13.886	84.259	50.588	1.00	0.00	H
ATOM	6878	HZ3	LYS	718	14.769	83.009	50.395	1.00	0.00	H
ATOM	6879	C	LYS	718	13.696	83.735	44.670	1.00	0.00	C

ATOM	6880	O	LYS	718	14.422	82.925	44.098	1.00	0.00	O
ATOM	6881	N	ASN	719	12.897	84.568	43.972	1.00	0.00	N
ATOM	6882	HN	ASN	719	12.321	85.275	44.428	1.00	0.00	H
ATOM	6883	CA	ASN	719	12.909	84.397	42.552	1.00	0.00	C
ATOM	6884	CB	ASN	719	11.676	83.616	42.080	1.00	0.00	C
ATOM	6885	CG	ASN	719	11.792	82.237	42.717	1.00	0.00	C
ATOM	6886	OD1	ASN	719	12.584	81.402	42.283	1.00	0.00	O
ATOM	6887	ND2	ASN	719	11.002	82.000	43.800	1.00	0.00	N
ATOM	6888	1HD2	ASN	719	10.345	82.692	44.160	1.00	0.00	H
ATOM	6889	2HD2	ASN	719	11.080	81.077	44.226	1.00	0.00	H
ATOM	6890	C	ASN	719	12.921	85.730	41.887	1.00	0.00	C
ATOM	6891	O	ASN	719	11.880	86.336	41.646	1.00	0.00	O
ATOM	6892	N	THR	720	14.123	86.155	41.476	1.00	0.00	N
ATOM	6893	HN	THR	720	14.910	85.513	41.572	1.00	0.00	H
ATOM	6894	CA	THR	720	14.384	87.443	40.912	1.00	0.00	C
ATOM	6895	CB	THR	720	15.858	87.710	40.788	1.00	0.00	C
ATOM	6896	OG1	THR	720	16.106	88.988	40.224	1.00	0.00	O
ATOM	6897	HG1	THR	720	15.714	89.682	40.741	1.00	0.00	H
ATOM	6898	CG2	THR	720	16.493	86.584	39.950	1.00	0.00	C
ATOM	6899	C	THR	720	13.765	87.555	39.560	1.00	0.00	C
ATOM	6900	O	THR	720	13.332	86.576	38.952	1.00	0.00	O
ATOM	6901	N	THR	721	13.716	88.808	39.071	1.00	0.00	N
ATOM	6902	HN	THR	721	14.114	89.563	39.630	1.00	0.00	H
ATOM	6903	CA	THR	721	13.135	89.130	37.810	1.00	0.00	C
ATOM	6904	CB	THR	721	13.350	90.565	37.436	1.00	0.00	C
ATOM	6905	OG1	THR	721	12.763	91.422	38.401	1.00	0.00	O
ATOM	6906	HG1	THR	721	12.899	92.332	38.164	1.00	0.00	H
ATOM	6907	CG2	THR	721	12.743	90.811	36.047	1.00	0.00	C
ATOM	6908	C	THR	721	13.823	88.339	36.746	1.00	0.00	C
ATOM	6909	O	THR	721	13.177	87.698	35.919	1.00	0.00	O
ATOM	6910	N	GLY	722	15.165	88.341	36.760	1.00	0.00	N
ATOM	6911	HN	GLY	722	15.664	88.827	37.505	1.00	0.00	H
ATOM	6912	CA	GLY	722	15.900	87.665	35.734	1.00	0.00	C
ATOM	6913	C	GLY	722	15.545	86.223	35.780	1.00	0.00	C
ATOM	6914	O	GLY	722	15.347	85.599	34.739	1.00	0.00	O
ATOM	6915	N	ALA	723	15.421	85.664	36.998	1.00	0.00	N
ATOM	6916	HN	ALA	723	15.516	86.234	37.838	1.00	0.00	H
ATOM	6917	CA	ALA	723	15.155	84.265	37.102	1.00	0.00	C
ATOM	6918	CB	ALA	723	14.983	83.781	38.551	1.00	0.00	C
ATOM	6919	C	ALA	723	13.877	84.016	36.386	1.00	0.00	C
ATOM	6920	O	ALA	723	13.722	83.011	35.699	1.00	0.00	O
ATOM	6921	N	LEU	724	12.919	84.938	36.538	1.00	0.00	N
ATOM	6922	HN	LEU	724	13.078	85.751	37.133	1.00	0.00	H
ATOM	6923	CA	LEU	724	11.671	84.774	35.860	1.00	0.00	C
ATOM	6924	CB	LEU	724	10.555	85.693	36.366	1.00	0.00	C
ATOM	6925	CG	LEU	724	9.934	85.208	37.685	1.00	0.00	C
ATOM	6926	CD1	LEU	724	10.919	85.281	38.856	1.00	0.00	C
ATOM	6927	CD2	LEU	724	8.617	85.934	37.969	1.00	0.00	C
ATOM	6928	C	LEU	724	11.739	84.940	34.370	1.00	0.00	C
ATOM	6929	O	LEU	724	11.193	84.115	33.635	1.00	0.00	O
ATOM	6930	N	THR	725	12.420	85.993	33.877	1.00	0.00	N
ATOM	6931	HN	THR	725	12.943	86.604	34.504	1.00	0.00	H
ATOM	6932	CA	THR	725	12.406	86.250	32.466	1.00	0.00	C
ATOM	6933	CB	THR	725	13.293	87.398	32.095	1.00	0.00	C
ATOM	6934	OG1	THR	725	12.916	88.561	32.809	1.00	0.00	O
ATOM	6935	HG1	THR	725	13.009	88.405	33.741	1.00	0.00	H
ATOM	6936	CG2	THR	725	13.143	87.649	30.594	1.00	0.00	C
ATOM	6937	C	THR	725	12.968	85.049	31.787	1.00	0.00	C
ATOM	6938	O	THR	725	12.413	84.529	30.815	1.00	0.00	O
ATOM	6939	N	THR	726	14.072	84.541	32.349	1.00	0.00	N
ATOM	6940	HN	THR	726	14.442	84.931	33.216	1.00	0.00	H
ATOM	6941	CA	THR	726	14.720	83.443	31.709	1.00	0.00	C
ATOM	6942	CB	THR	726	15.941	82.967	32.428	1.00	0.00	C
ATOM	6943	OG1	THR	726	15.630	82.605	33.765	1.00	0.00	O
ATOM	6944	HG1	THR	726	16.406	82.302	34.222	1.00	0.00	H
ATOM	6945	CG2	THR	726	16.984	84.086	32.390	1.00	0.00	C
ATOM	6946	C	THR	726	13.793	82.293	31.622	1.00	0.00	C
ATOM	6947	O	THR	726	13.620	81.703	30.554	1.00	0.00	O
ATOM	6948	N	ARG	727	13.117	81.994	32.740	1.00	0.00	N
ATOM	6949	HN	ARG	727	13.188	82.597	33.560	1.00	0.00	H
ATOM	6950	CA	ARG	727	12.296	80.825	32.775	1.00	0.00	C
ATOM	6951	CB	ARG	727	11.515	80.683	34.091	1.00	0.00	C
ATOM	6952	CG	ARG	727	12.398	80.533	35.332	1.00	0.00	C
ATOM	6953	CD	ARG	727	12.700	79.084	35.726	1.00	0.00	C

ATOM	6954	NE	ARG	727	13.639	78.520	34.716	1.00	0.00	N
ATOM	6955	HE	ARG	727	13.436	78.627	33.722	1.00	0.00	H
ATOM	6956	CZ	ARG	727	14.768	77.861	35.109	1.00	0.00	C
ATOM	6957	NH1	ARG	727	15.064	77.737	36.436	1.00	0.00	N
ATOM	6958	1HH1	ARG	727	15.908	77.245	36.730	1.00	0.00	H
ATOM	6959	2HH1	ARG	727	14.432	78.123	37.137	1.00	0.00	H
ATOM	6960	NH2	ARG	727	15.615	77.344	34.170	1.00	0.00	N
ATOM	6961	1HH2	ARG	727	16.459	76.852	34.464	1.00	0.00	H
ATOM	6962	2HH2	ARG	727	15.394	77.437	33.179	1.00	0.00	H
ATOM	6963	C	ARG	727	11.277	80.900	31.684	1.00	0.00	C
ATOM	6964	O	ARG	727	11.069	79.922	30.964	1.00	0.00	O
ATOM	6965	N	LEU	728	10.664	82.082	31.486	1.00	0.00	N
ATOM	6966	HN	LEU	728	10.962	82.916	31.992	1.00	0.00	H
ATOM	6967	CA	LEU	728	9.583	82.142	30.548	1.00	0.00	C
ATOM	6968	CB	LEU	728	9.047	83.565	30.328	1.00	0.00	C
ATOM	6969	CG	LEU	728	8.400	84.211	31.561	1.00	0.00	C
ATOM	6970	CD1	LEU	728	7.755	85.550	31.181	1.00	0.00	C
ATOM	6971	CD2	LEU	728	7.423	83.254	32.262	1.00	0.00	C
ATOM	6972	C	LEU	728	10.008	81.694	29.184	1.00	0.00	C
ATOM	6973	O	LEU	728	9.502	80.699	28.667	1.00	0.00	O
ATOM	6974	N	ALA	729	10.996	82.377	28.587	1.00	0.00	N
ATOM	6975	HN	ALA	729	11.532	83.082	29.093	1.00	0.00	H
ATOM	6976	CA	ALA	729	11.272	82.080	27.209	1.00	0.00	C
ATOM	6977	CB	ALA	729	12.272	83.069	26.586	1.00	0.00	C
ATOM	6978	C	ALA	729	11.820	80.707	26.963	1.00	0.00	C
ATOM	6979	O	ALA	729	11.237	79.925	26.210	1.00	0.00	O
ATOM	6980	N	ASN	730	12.921	80.335	27.643	1.00	0.00	N
ATOM	6981	HN	ASN	730	13.291	80.887	28.417	1.00	0.00	H
ATOM	6982	CA	ASN	730	13.544	79.113	27.212	1.00	0.00	C
ATOM	6983	CB	ASN	730	14.921	78.840	27.853	1.00	0.00	C
ATOM	6984	CG	ASN	730	14.761	78.542	29.332	1.00	0.00	C
ATOM	6985	OD1	ASN	730	14.367	77.440	29.711	1.00	0.00	O
ATOM	6986	ND2	ASN	730	15.113	79.532	30.193	1.00	0.00	N
ATOM	6987	1HD2	ASN	730	15.440	80.446	29.879	1.00	0.00	H
ATOM	6988	2HD2	ASN	730	15.005	79.332	31.187	1.00	0.00	H
ATOM	6989	C	ASN	730	12.649	77.940	27.463	1.00	0.00	C
ATOM	6990	O	ASN	730	12.455	77.102	26.581	1.00	0.00	O
ATOM	6991	N	ASP	731	12.021	77.906	28.652	1.00	0.00	N
ATOM	6992	HN	ASP	731	12.082	78.722	29.261	1.00	0.00	H
ATOM	6993	CA	ASP	731	11.266	76.764	29.100	1.00	0.00	C
ATOM	6994	CB	ASP	731	10.659	76.947	30.504	1.00	0.00	C
ATOM	6995	CG	ASP	731	11.728	76.719	31.564	1.00	0.00	C
ATOM	6996	OD1	ASP	731	12.793	76.142	31.220	1.00	0.00	O
ATOM	6997	OD2	ASP	731	11.483	77.101	32.740	1.00	0.00	O
ATOM	6998	C	ASP	731	10.121	76.430	28.206	1.00	0.00	C
ATOM	6999	O	ASP	731	9.877	75.249	27.958	1.00	0.00	O
ATOM	7000	N	ALA	732	9.373	77.432	27.705	1.00	0.00	N
ATOM	7001	HN	ALA	732	9.599	78.410	27.886	1.00	0.00	H
ATOM	7002	CA	ALA	732	8.243	77.057	26.905	1.00	0.00	C
ATOM	7003	CB	ALA	732	7.460	78.267	26.385	1.00	0.00	C
ATOM	7004	C	ALA	732	8.733	76.275	25.722	1.00	0.00	C
ATOM	7005	O	ALA	732	8.195	75.224	25.378	1.00	0.00	O
ATOM	7006	N	ALA	733	9.836	76.718	25.108	1.00	0.00	N
ATOM	7007	HN	ALA	733	10.357	77.517	25.469	1.00	0.00	H
ATOM	7008	CA	ALA	733	10.261	76.027	23.921	1.00	0.00	C
ATOM	7009	CB	ALA	733	11.517	76.660	23.301	1.00	0.00	C
ATOM	7010	C	ALA	733	10.575	74.578	24.183	1.00	0.00	C
ATOM	7011	O	ALA	733	10.076	73.685	23.495	1.00	0.00	O
ATOM	7012	N	GLN	734	11.343	74.304	25.246	1.00	0.00	N
ATOM	7013	HN	GLN	734	11.569	75.058	25.895	1.00	0.00	H
ATOM	7014	CA	GLN	734	11.860	72.992	25.508	1.00	0.00	C
ATOM	7015	CB	GLN	734	12.604	72.991	26.854	1.00	0.00	C
ATOM	7016	CG	GLN	734	13.454	74.250	27.082	1.00	0.00	C
ATOM	7017	CD	GLN	734	14.548	74.339	26.032	1.00	0.00	C
ATOM	7018	OE1	GLN	734	15.437	73.491	25.970	1.00	0.00	O
ATOM	7019	NE2	GLN	734	14.491	75.401	25.185	1.00	0.00	N
ATOM	7020	1HE2	GLN	734	15.226	75.461	24.480	1.00	0.00	H
ATOM	7021	2HE2	GLN	734	13.754	76.104	25.236	1.00	0.00	H
ATOM	7022	C	GLN	734	10.712	72.027	25.644	1.00	0.00	C
ATOM	7023	O	GLN	734	10.704	70.949	25.045	1.00	0.00	O
ATOM	7024	N	VAL	735	9.674	72.425	26.400	1.00	0.00	N
ATOM	7025	HN	VAL	735	9.656	73.371	26.781	1.00	0.00	H
ATOM	7026	CA	VAL	735	8.590	71.524	26.674	1.00	0.00	C
ATOM	7027	CB	VAL	735	7.584	72.088	27.643	1.00	0.00	C

ATOM	7028	CG1	VAL	735	7.181	73.514	27.255	1.00	0.00	C
ATOM	7029	CG2	VAL	735	6.392	71.134	27.657	1.00	0.00	C
ATOM	7030	C	VAL	735	7.921	71.078	25.410	1.00	0.00	C
ATOM	7031	O	VAL	735	7.566	69.902	25.275	1.00	0.00	O
ATOM	7032	N	LYS	736	7.802	71.997	24.432	1.00	0.00	N
ATOM	7033	HN	LYS	736	8.155	72.939	24.600	1.00	0.00	H
ATOM	7034	CA	LYS	736	7.198	71.702	23.162	1.00	0.00	C
ATOM	7035	CB	LYS	736	7.500	72.829	22.158	1.00	0.00	C
ATOM	7036	CG	LYS	736	7.131	72.532	20.705	1.00	0.00	C
ATOM	7037	CD	LYS	736	7.295	73.746	19.785	1.00	0.00	C
ATOM	7038	CE	LYS	736	7.173	73.412	18.297	1.00	0.00	C
ATOM	7039	NZ	LYS	736	8.409	72.748	17.826	1.00	0.00	N
ATOM	7040	HZ1	LYS	736	8.328	72.525	16.834	1.00	0.00	H
ATOM	7041	HZ2	LYS	736	8.639	71.926	18.385	1.00	0.00	H
ATOM	7042	HZ3	LYS	736	9.241	73.302	18.027	1.00	0.00	H
ATOM	7043	C	LYS	736	7.895	70.474	22.656	1.00	0.00	C
ATOM	7044	O	LYS	736	7.296	69.578	22.058	1.00	0.00	O
ATOM	7045	N	GLY	737	9.199	70.391	22.961	1.00	0.00	N
ATOM	7046	HN	GLY	737	9.630	71.133	23.512	1.00	0.00	H
ATOM	7047	CA	GLY	737	10.003	69.282	22.530	1.00	0.00	C
ATOM	7048	C	GLY	737	9.525	67.977	23.108	1.00	0.00	C
ATOM	7049	O	GLY	737	9.471	66.969	22.402	1.00	0.00	O
ATOM	7050	N	ALA	738	9.145	67.952	24.401	1.00	0.00	N
ATOM	7051	HN	ALA	738	9.102	68.819	24.936	1.00	0.00	H
ATOM	7052	CA	ALA	738	8.799	66.700	25.029	1.00	0.00	C
ATOM	7053	CB	ALA	738	8.428	66.872	26.513	1.00	0.00	C
ATOM	7054	C	ALA	738	7.628	66.028	24.333	1.00	0.00	C
ATOM	7055	O	ALA	738	7.576	64.800	24.241	1.00	0.00	O
ATOM	7056	N	ILE	739	6.613	66.802	23.894	1.00	0.00	N
ATOM	7057	HN	ILE	739	6.676	67.811	24.027	1.00	0.00	H
ATOM	7058	CA	ILE	739	5.434	66.259	23.240	1.00	0.00	C
ATOM	7059	CB	ILE	739	4.328	67.285	23.217	1.00	0.00	C
ATOM	7060	CG1	ILE	739	2.958	66.711	22.803	1.00	0.00	C
ATOM	7061	CG2	ILE	739	4.801	68.445	22.328	1.00	0.00	C
ATOM	7062	CD1	ILE	739	2.821	66.379	21.317	1.00	0.00	C
ATOM	7063	C	ILE	739	5.656	65.740	21.826	1.00	0.00	C
ATOM	7064	O	ILE	739	5.240	64.631	21.475	1.00	0.00	O
ATOM	7065	N	GLY	740	6.345	66.515	20.965	1.00	0.00	N
ATOM	7066	HN	GLY	740	6.756	67.390	21.292	1.00	0.00	H
ATOM	7067	CA	GLY	740	6.508	66.121	19.585	1.00	0.00	C
ATOM	7068	C	GLY	740	7.192	64.789	19.554	1.00	0.00	C
ATOM	7069	O	GLY	740	6.996	63.995	18.629	1.00	0.00	O
ATOM	7070	N	SER	741	8.046	64.537	20.565	1.00	0.00	N
ATOM	7071	HN	SER	741	8.157	65.233	21.302	1.00	0.00	H
ATOM	7072	CA	SER	741	8.808	63.317	20.639	1.00	0.00	C
ATOM	7073	CB	SER	741	9.717	63.223	21.878	1.00	0.00	C
ATOM	7074	OG	SER	741	10.833	64.089	21.748	1.00	0.00	O
ATOM	7075	HG	SER	741	11.394	64.031	22.513	1.00	0.00	H
ATOM	7076	C	SER	741	7.895	62.129	20.691	1.00	0.00	C
ATOM	7077	O	SER	741	8.142	61.113	20.032	1.00	0.00	O
ATOM	7078	N	ARG	742	6.784	62.249	21.442	1.00	0.00	N
ATOM	7079	HN	ARG	742	6.557	63.142	21.879	1.00	0.00	H
ATOM	7080	CA	ARG	742	5.920	61.120	21.626	1.00	0.00	C
ATOM	7081	CB	ARG	742	4.644	61.469	22.423	1.00	0.00	C
ATOM	7082	CG	ARG	742	4.838	62.438	23.602	1.00	0.00	C
ATOM	7083	CD	ARG	742	6.121	62.284	24.429	1.00	0.00	C
ATOM	7084	NE	ARG	742	5.911	61.220	25.449	1.00	0.00	N
ATOM	7085	HE	ARG	742	5.256	60.459	25.268	1.00	0.00	H
ATOM	7086	CZ	ARG	742	6.600	61.267	26.631	1.00	0.00	C
ATOM	7087	NH1	ARG	742	7.476	62.279	26.888	1.00	0.00	N
ATOM	7088	1HH1	ARG	742	7.620	63.006	26.187	1.00	0.00	H
ATOM	7089	2HH1	ARG	742	7.989	62.314	27.769	1.00	0.00	H
ATOM	7090	NH2	ARG	742	6.407	60.296	27.568	1.00	0.00	N
ATOM	7091	1HH2	ARG	742	5.751	59.539	27.376	1.00	0.00	H
ATOM	7092	2HH2	ARG	742	6.920	60.331	28.449	1.00	0.00	H
ATOM	7093	C	ARG	742	5.461	60.701	20.235	1.00	0.00	C
ATOM	7094	O	ARG	742	5.285	59.522	19.918	1.00	0.00	O
ATOM	7095	N	LEU	743	5.280	61.701	19.353	1.00	0.00	N
ATOM	7096	HN	LEU	743	5.531	62.639	19.666	1.00	0.00	H
ATOM	7097	CA	LEU	743	4.766	61.583	18.007	1.00	0.00	C
ATOM	7098	CB	LEU	743	4.682	63.008	17.421	1.00	0.00	C
ATOM	7099	CG	LEU	743	3.892	63.211	16.120	1.00	0.00	C
ATOM	7100	CD1	LEU	743	4.472	62.416	14.947	1.00	0.00	C
ATOM	7101	CD2	LEU	743	2.393	62.993	16.347	1.00	0.00	C



ATOM	7102	C	LEU	743	5.630	60.740	17.081	1.00	0.00	C
ATOM	7103	O	LEU	743	5.167	59.790	16.444	1.00	0.00	O
ATOM	7104	N	ALA	744	6.932	61.050	17.012	1.00	0.00	N
ATOM	7105	HN	ALA	744	7.280	61.780	17.634	1.00	0.00	H
ATOM	7106	CA	ALA	744	7.877	60.422	16.119	1.00	0.00	C
ATOM	7107	CB	ALA	744	9.283	61.038	16.220	1.00	0.00	C
ATOM	7108	C	ALA	744	7.987	58.981	16.472	1.00	0.00	C
ATOM	7109	O	ALA	744	8.513	58.181	15.698	1.00	0.00	O
ATOM	7110	N	VAL	745	7.646	58.645	17.725	1.00	0.00	N
ATOM	7111	HN	VAL	745	7.311	59.353	18.378	1.00	0.00	H
ATOM	7112	CA	VAL	745	7.759	57.280	18.130	1.00	0.00	C
ATOM	7113	CB	VAL	745	7.510	57.077	19.595	1.00	0.00	C
ATOM	7114	CG1	VAL	745	7.514	55.565	19.889	1.00	0.00	C
ATOM	7115	CG2	VAL	745	8.579	57.860	20.378	1.00	0.00	C
ATOM	7116	C	VAL	745	6.803	56.408	17.384	1.00	0.00	C
ATOM	7117	O	VAL	745	7.202	55.474	16.685	1.00	0.00	O
ATOM	7118	N	ILE	746	5.505	56.747	17.446	1.00	0.00	N
ATOM	7119	HN	ILE	746	5.210	57.616	17.891	1.00	0.00	H
ATOM	7120	CA	ILE	746	4.547	55.851	16.869	1.00	0.00	C
ATOM	7121	CB	ILE	746	3.120	56.275	17.081	1.00	0.00	C
ATOM	7122	CG1	ILE	746	2.186	55.069	16.881	1.00	0.00	C
ATOM	7123	CG2	ILE	746	2.816	57.465	16.157	1.00	0.00	C
ATOM	7124	CD1	ILE	746	0.768	55.299	17.403	1.00	0.00	C
ATOM	7125	C	ILE	746	4.824	55.728	15.400	1.00	0.00	C
ATOM	7126	O	ILE	746	4.753	54.640	14.826	1.00	0.00	O
ATOM	7127	N	THR	747	5.202	56.854	14.767	1.00	0.00	N
ATOM	7128	HN	THR	747	5.345	57.713	15.299	1.00	0.00	H
ATOM	7129	CA	THR	747	5.405	56.850	13.345	1.00	0.00	C
ATOM	7130	CB	THR	747	5.747	58.210	12.802	1.00	0.00	C
ATOM	7131	OG1	THR	747	5.933	58.136	11.395	1.00	0.00	O
ATOM	7132	HG1	THR	747	5.146	57.807	10.977	1.00	0.00	H
ATOM	7133	CG2	THR	747	7.017	58.741	13.477	1.00	0.00	C
ATOM	7134	C	THR	747	6.449	55.893	12.862	1.00	0.00	C
ATOM	7135	O	THR	747	6.118	54.979	12.109	1.00	0.00	O
ATOM	7136	N	GLN	748	7.708	55.999	13.336	1.00	0.00	N
ATOM	7137	HN	GLN	748	7.916	56.641	14.101	1.00	0.00	H
ATOM	7138	CA	GLN	748	8.757	55.199	12.755	1.00	0.00	C
ATOM	7139	CB	GLN	748	10.123	55.331	13.451	1.00	0.00	C
ATOM	7140	CG	GLN	748	10.120	54.754	14.870	1.00	0.00	C
ATOM	7141	CD	GLN	748	11.560	54.523	15.311	1.00	0.00	C
ATOM	7142	OE1	GLN	748	11.870	53.528	15.964	1.00	0.00	O
ATOM	7143	NE2	GLN	748	12.469	55.466	14.949	1.00	0.00	N
ATOM	7144	1HE2	GLN	748	13.433	55.311	15.244	1.00	0.00	H
ATOM	7145	2HE2	GLN	748	12.212	56.291	14.407	1.00	0.00	H
ATOM	7146	C	GLN	748	8.380	53.764	12.919	1.00	0.00	C
ATOM	7147	O	GLN	748	8.572	52.945	12.019	1.00	0.00	O
ATOM	7148	N	ASN	749	7.741	53.465	14.061	1.00	0.00	N
ATOM	7149	HN	ASN	749	7.467	54.214	14.696	1.00	0.00	H
ATOM	7150	CA	ASN	749	7.440	52.108	14.397	1.00	0.00	C
ATOM	7151	CB	ASN	749	6.570	52.033	15.664	1.00	0.00	C
ATOM	7152	CG	ASN	749	6.342	50.592	16.112	1.00	0.00	C
ATOM	7153	OD1	ASN	749	6.354	49.642	15.330	1.00	0.00	O
ATOM	7154	ND2	ASN	749	6.102	50.429	17.440	1.00	0.00	N
ATOM	7155	1HD2	ASN	749	6.092	51.216	18.088	1.00	0.00	H
ATOM	7156	2HD2	ASN	749	5.950	49.466	17.739	1.00	0.00	H
ATOM	7157	C	ASN	749	6.673	51.439	13.304	1.00	0.00	C
ATOM	7158	O	ASN	749	7.130	50.454	12.724	1.00	0.00	O
ATOM	7159	N	ILE	750	5.503	51.978	12.946	1.00	0.00	N
ATOM	7160	HN	ILE	750	5.183	52.865	13.334	1.00	0.00	H
ATOM	7161	CA	ILE	750	4.719	51.251	11.991	1.00	0.00	C
ATOM	7162	CB	ILE	750	3.354	51.825	11.746	1.00	0.00	C
ATOM	7163	CG1	ILE	750	2.480	51.617	12.992	1.00	0.00	C
ATOM	7164	CG2	ILE	750	2.761	51.194	10.473	1.00	0.00	C
ATOM	7165	CD1	ILE	750	1.113	52.282	12.878	1.00	0.00	C
ATOM	7166	C	ILE	750	5.429	51.135	10.683	1.00	0.00	C
ATOM	7167	O	ILE	750	5.414	50.063	10.078	1.00	0.00	O
ATOM	7168	N	ALA	751	6.099	52.215	10.231	1.00	0.00	N
ATOM	7169	HN	ALA	751	6.206	53.039	10.823	1.00	0.00	H
ATOM	7170	CA	ALA	751	6.661	52.194	8.907	1.00	0.00	C
ATOM	7171	CB	ALA	751	7.667	53.320	8.693	1.00	0.00	C
ATOM	7172	C	ALA	751	7.573	51.041	8.739	1.00	0.00	C
ATOM	7173	O	ALA	751	7.280	50.088	8.017	1.00	0.00	O
ATOM	7174	N	ASN	752	8.656	51.062	9.521	1.00	0.00	N
ATOM	7175	HN	ASN	752	8.750	51.767	10.253	1.00	0.00	H

ATOM	7176	CA	ASN	752	9.676	50.091	9.322	1.00	0.00	C
ATOM	7177	CB	ASN	752	10.823	50.286	10.335	1.00	0.00	C
ATOM	7178	CG	ASN	752	11.847	49.164	10.201	1.00	0.00	C
ATOM	7179	OD1	ASN	752	12.895	49.330	9.580	1.00	0.00	O
ATOM	7180	ND2	ASN	752	11.556	47.989	10.823	1.00	0.00	N
ATOM	7181	1HD2	ASN	752	12.241	47.239	10.733	1.00	0.00	H
ATOM	7182	2HD2	ASN	752	10.687	47.851	11.338	1.00	0.00	H
ATOM	7183	C	ASN	752	9.120	48.732	9.541	1.00	0.00	C
ATOM	7184	O	ASN	752	9.121	47.898	8.635	1.00	0.00	O
ATOM	7185	N	LEU	753	8.627	48.471	10.765	1.00	0.00	N
ATOM	7186	HN	LEU	753	8.536	49.194	11.479	1.00	0.00	H
ATOM	7187	CA	LEU	753	8.240	47.117	11.000	1.00	0.00	C
ATOM	7188	CB	LEU	753	7.936	46.797	12.474	1.00	0.00	C
ATOM	7189	CG	LEU	753	7.521	45.326	12.679	1.00	0.00	C
ATOM	7190	CD1	LEU	753	8.662	44.367	12.297	1.00	0.00	C
ATOM	7191	CD2	LEU	753	6.987	45.083	14.098	1.00	0.00	C
ATOM	7192	C	LEU	753	7.023	46.732	10.241	1.00	0.00	C
ATOM	7193	O	LEU	753	7.110	45.930	9.317	1.00	0.00	O
ATOM	7194	N	GLY	754	5.896	47.418	10.513	1.00	0.00	N
ATOM	7195	HN	GLY	754	5.945	48.286	11.046	1.00	0.00	H
ATOM	7196	CA	GLY	754	4.625	46.930	10.055	1.00	0.00	C
ATOM	7197	C	GLY	754	4.624	46.756	8.575	1.00	0.00	C
ATOM	7198	O	GLY	754	4.235	45.704	8.067	1.00	0.00	O
ATOM	7199	N	THR	755	5.085	47.770	7.834	1.00	0.00	N
ATOM	7200	HN	THR	755	5.436	48.624	8.268	1.00	0.00	H
ATOM	7201	CA	THR	755	5.069	47.615	6.410	1.00	0.00	C
ATOM	7202	CB	THR	755	5.394	48.867	5.651	1.00	0.00	C
ATOM	7203	OG1	THR	755	4.486	49.901	6.003	1.00	0.00	O
ATOM	7204	HG1	THR	755	4.692	50.694	5.522	1.00	0.00	H
ATOM	7205	CG2	THR	755	5.274	48.564	4.146	1.00	0.00	C
ATOM	7206	C	THR	755	6.073	46.582	6.010	1.00	0.00	C
ATOM	7207	O	THR	755	5.831	45.780	5.108	1.00	0.00	O
ATOM	7208	N	GLY	756	7.241	46.577	6.675	1.00	0.00	N
ATOM	7209	HN	GLY	756	7.383	47.209	7.463	1.00	0.00	H
ATOM	7210	CA	GLY	756	8.288	45.682	6.276	1.00	0.00	C
ATOM	7211	C	GLY	756	7.837	44.273	6.454	1.00	0.00	C
ATOM	7212	O	GLY	756	8.135	43.413	5.630	1.00	0.00	O
ATOM	7213	N	ILE	757	7.125	43.991	7.557	1.00	0.00	N
ATOM	7214	HN	ILE	757	6.879	44.742	8.202	1.00	0.00	H
ATOM	7215	CA	ILE	757	6.705	42.651	7.842	1.00	0.00	C
ATOM	7216	CB	ILE	757	6.123	42.471	9.211	1.00	0.00	C
ATOM	7217	CG1	ILE	757	4.857	43.315	9.411	1.00	0.00	C
ATOM	7218	CG2	ILE	757	7.240	42.775	10.214	1.00	0.00	C
ATOM	7219	CD1	ILE	757	4.118	42.977	10.705	1.00	0.00	C
ATOM	7220	C	ILE	757	5.711	42.167	6.839	1.00	0.00	C
ATOM	7221	O	ILE	757	5.770	41.015	6.418	1.00	0.00	O
ATOM	7222	N	ILE	758	4.759	43.020	6.426	1.00	0.00	N
ATOM	7223	HN	ILE	758	4.740	43.985	6.757	1.00	0.00	H
ATOM	7224	CA	ILE	758	3.771	42.535	5.507	1.00	0.00	C
ATOM	7225	CB	ILE	758	2.788	43.594	5.111	1.00	0.00	C
ATOM	7226	CG1	ILE	758	2.058	44.123	6.356	1.00	0.00	C
ATOM	7227	CG2	ILE	758	1.848	42.996	4.051	1.00	0.00	C
ATOM	7228	CD1	ILE	758	1.330	43.034	7.142	1.00	0.00	C
ATOM	7229	C	ILE	758	4.489	42.101	4.270	1.00	0.00	C
ATOM	7230	O	ILE	758	4.319	40.982	3.788	1.00	0.00	O
ATOM	7231	N	ILE	759	5.377	42.967	3.766	1.00	0.00	N
ATOM	7232	HN	ILE	759	5.488	43.883	4.201	1.00	0.00	H
ATOM	7233	CA	ILE	759	6.172	42.627	2.627	1.00	0.00	C
ATOM	7234	CB	ILE	759	6.999	43.735	2.039	1.00	0.00	C
ATOM	7235	CG1	ILE	759	7.906	44.390	3.083	1.00	0.00	C
ATOM	7236	CG2	ILE	759	6.065	44.671	1.268	1.00	0.00	C
ATOM	7237	CD1	ILE	759	8.897	45.377	2.478	1.00	0.00	C
ATOM	7238	C	ILE	759	7.050	41.490	3.011	1.00	0.00	C
ATOM	7239	O	ILE	759	7.608	40.814	2.151	1.00	0.00	O
ATOM	7240	N	SER	760	7.308	41.320	4.317	1.00	0.00	N
ATOM	7241	HN	SER	760	6.922	41.952	5.019	1.00	0.00	H
ATOM	7242	CA	SER	760	8.142	40.222	4.688	1.00	0.00	C
ATOM	7243	CB	SER	760	8.628	40.218	6.152	1.00	0.00	C
ATOM	7244	OG	SER	760	7.745	39.497	6.995	1.00	0.00	O
ATOM	7245	HG	SER	760	8.044	39.495	7.897	1.00	0.00	H
ATOM	7246	C	SER	760	7.390	38.954	4.419	1.00	0.00	C
ATOM	7247	O	SER	760	7.996	37.906	4.200	1.00	0.00	O
ATOM	7248	N	PHE	761	6.042	39.015	4.433	1.00	0.00	N
ATOM	7249	HN	PHE	761	5.574	39.894	4.654	1.00	0.00	H

ATOM	7250	CA	PHE	761	5.266	37.843	4.137	1.00	0.00	C
ATOM	7251	CB	PHE	761	3.743	38.086	4.210	1.00	0.00	C
ATOM	7252	CG	PHE	761	3.348	38.168	5.646	1.00	0.00	C
ATOM	7253	CD1	PHE	761	3.626	39.288	6.394	1.00	0.00	C
ATOM	7254	CD2	PHE	761	2.679	37.122	6.241	1.00	0.00	C
ATOM	7255	CE1	PHE	761	3.256	39.356	7.716	1.00	0.00	C
ATOM	7256	CE2	PHE	761	2.305	37.184	7.563	1.00	0.00	C
ATOM	7257	CZ	PHE	761	2.596	38.303	8.305	1.00	0.00	C
ATOM	7258	C	PHE	761	5.590	37.442	2.735	1.00	0.00	C
ATOM	7259	O	PHE	761	5.963	36.300	2.470	1.00	0.00	O
ATOM	7260	N	ILE	762	5.533	38.412	1.807	1.00	0.00	N
ATOM	7261	HN	ILE	762	5.314	39.368	2.087	1.00	0.00	H
ATOM	7262	CA	ILE	762	5.778	38.114	0.428	1.00	0.00	C
ATOM	7263	CB	ILE	762	5.632	39.271	-0.521	1.00	0.00	C
ATOM	7264	CG1	ILE	762	5.496	38.727	-1.947	1.00	0.00	C
ATOM	7265	CG2	ILE	762	6.834	40.213	-0.390	1.00	0.00	C
ATOM	7266	CD1	ILE	762	5.021	39.782	-2.940	1.00	0.00	C
ATOM	7267	C	ILE	762	7.168	37.590	0.329	1.00	0.00	C
ATOM	7268	O	ILE	762	7.482	36.821	-0.579	1.00	0.00	O
ATOM	7269	N	TYR	763	8.069	38.044	1.222	1.00	0.00	N
ATOM	7270	HN	TYR	763	7.827	38.742	1.926	1.00	0.00	H
ATOM	7271	CA	TYR	763	9.388	37.489	1.125	1.00	0.00	C
ATOM	7272	CB	TYR	763	10.452	37.895	2.144	1.00	0.00	C
ATOM	7273	CG	TYR	763	10.650	39.355	2.138	1.00	0.00	C
ATOM	7274	CD1	TYR	763	10.697	40.052	0.959	1.00	0.00	C
ATOM	7275	CD2	TYR	763	10.741	40.017	3.335	1.00	0.00	C
ATOM	7276	CE1	TYR	763	10.868	41.410	0.988	1.00	0.00	C
ATOM	7277	CE2	TYR	763	10.912	41.373	3.369	1.00	0.00	C
ATOM	7278	CZ	TYR	763	10.977	42.062	2.189	1.00	0.00	C
ATOM	7279	OH	TYR	763	11.152	43.453	2.218	1.00	0.00	O
ATOM	7280	HH	TYR	763	11.228	43.905	3.050	1.00	0.00	H
ATOM	7281	C	TYR	763	9.268	36.020	1.337	1.00	0.00	C
ATOM	7282	O	TYR	763	8.398	35.564	2.079	1.00	0.00	O
ATOM	7283	N	GLY	764	10.145	35.243	0.666	1.00	0.00	N
ATOM	7284	HN	GLY	764	10.873	35.674	0.096	1.00	0.00	H
ATOM	7285	CA	GLY	764	10.057	33.817	0.752	1.00	0.00	C
ATOM	7286	C	GLY	764	11.054	33.241	1.723	1.00	0.00	C
ATOM	7287	O	GLY	764	11.832	32.351	1.384	1.00	0.00	O
ATOM	7288	N	TRP	765	11.091	33.776	2.954	1.00	0.00	N
ATOM	7289	HN	TRP	765	10.661	34.687	3.113	1.00	0.00	H
ATOM	7290	CA	TRP	765	11.721	33.097	4.055	1.00	0.00	C
ATOM	7291	CB	TRP	765	11.105	31.697	4.215	1.00	0.00	C
ATOM	7292	CG	TRP	765	9.600	31.702	4.327	1.00	0.00	C
ATOM	7293	CD2	TRP	765	8.847	31.123	5.403	1.00	0.00	C
ATOM	7294	CD1	TRP	765	8.686	32.177	3.430	1.00	0.00	C
ATOM	7295	NE1	TRP	765	7.412	31.940	3.884	1.00	0.00	N
ATOM	7296	HE1	TRP	765	6.550	32.202	3.406	1.00	0.00	H
ATOM	7297	CE2	TRP	765	7.496	31.288	5.095	1.00	0.00	C
ATOM	7298	CE3	TRP	765	9.247	30.494	6.546	1.00	0.00	C
ATOM	7299	CZ2	TRP	765	6.521	30.826	5.931	1.00	0.00	C
ATOM	7300	CZ3	TRP	765	8.261	30.040	7.392	1.00	0.00	C
ATOM	7301	CH2	TRP	765	6.925	30.203	7.091	1.00	0.00	C
ATOM	7302	C	TRP	765	13.203	32.867	3.883	1.00	0.00	C
ATOM	7303	O	TRP	765	13.760	32.067	4.632	1.00	0.00	O
ATOM	7304	N	GLN	766	13.875	33.381	2.835	1.00	0.00	N
ATOM	7305	HN	GLN	766	13.390	33.882	2.091	1.00	0.00	H
ATOM	7306	CA	GLN	766	15.307	33.196	2.804	1.00	0.00	C
ATOM	7307	CB	GLN	766	15.803	32.785	1.414	1.00	0.00	C
ATOM	7308	CG	GLN	766	15.096	31.513	0.950	1.00	0.00	C
ATOM	7309	CD	GLN	766	14.925	30.616	2.171	1.00	0.00	C
ATOM	7310	OE1	GLN	766	15.857	30.411	2.948	1.00	0.00	O
ATOM	7311	NE2	GLN	766	13.688	30.082	2.362	1.00	0.00	N
ATOM	7312	1HE2	GLN	766	13.574	29.482	3.179	1.00	0.00	H
ATOM	7313	2HE2	GLN	766	12.915	30.252	1.718	1.00	0.00	H
ATOM	7314	C	GLN	766	16.103	34.386	3.275	1.00	0.00	C
ATOM	7315	O	GLN	766	17.220	34.256	3.775	1.00	0.00	O
ATOM	7316	N	LEU	767	15.649	35.581	2.858	1.00	0.00	N
ATOM	7317	HN	LEU	767	14.826	35.582	2.256	1.00	0.00	H
ATOM	7318	CA	LEU	767	16.221	36.853	3.186	1.00	0.00	C
ATOM	7319	CB	LEU	767	16.214	37.835	2.010	1.00	0.00	C
ATOM	7320	CG	LEU	767	17.267	37.456	0.952	1.00	0.00	C
ATOM	7321	CD1	LEU	767	18.685	37.610	1.525	1.00	0.00	C
ATOM	7322	CD2	LEU	767	17.020	36.051	0.380	1.00	0.00	C
ATOM	7323	C	LEU	767	15.612	37.494	4.373	1.00	0.00	C

ATOM	7324	O	LEU	767	16.319	38.164	5.111	1.00	0.00	O
ATOM	7325	N	THR	768	14.290	37.325	4.581	1.00	0.00	N
ATOM	7326	HN	THR	768	13.767	36.694	3.974	1.00	0.00	H
ATOM	7327	CA	THR	768	13.601	38.014	5.640	1.00	0.00	C
ATOM	7328	CB	THR	768	12.228	37.471	5.876	1.00	0.00	C
ATOM	7329	OG1	THR	768	11.487	37.471	4.673	1.00	0.00	O
ATOM	7330	HG1	THR	768	11.920	36.920	4.031	1.00	0.00	H
ATOM	7331	CG2	THR	768	11.528	38.362	6.914	1.00	0.00	C
ATOM	7332	C	THR	768	14.339	37.690	6.880	1.00	0.00	C
ATOM	7333	O	THR	768	14.764	38.574	7.624	1.00	0.00	O
ATOM	7334	N	LEU	769	14.551	36.386	7.087	1.00	0.00	N
ATOM	7335	HN	LEU	769	14.160	35.698	6.443	1.00	0.00	H
ATOM	7336	CA	LEU	769	15.321	35.956	8.203	1.00	0.00	C
ATOM	7337	CB	LEU	769	15.275	34.442	8.463	1.00	0.00	C
ATOM	7338	CG	LEU	769	16.080	34.004	9.707	1.00	0.00	C
ATOM	7339	CD1	LEU	769	17.601	33.984	9.481	1.00	0.00	C
ATOM	7340	CD2	LEU	769	15.697	34.871	10.916	1.00	0.00	C
ATOM	7341	C	LEU	769	16.739	36.342	7.957	1.00	0.00	C
ATOM	7342	O	LEU	769	17.465	36.693	8.881	1.00	0.00	O
ATOM	7343	N	LEU	770	17.169	36.311	6.687	1.00	0.00	N
ATOM	7344	HN	LEU	770	16.501	36.132	5.937	1.00	0.00	H
ATOM	7345	CA	LEU	770	18.546	36.524	6.364	1.00	0.00	C
ATOM	7346	CB	LEU	770	18.777	36.509	4.840	1.00	0.00	C
ATOM	7347	CG	LEU	770	20.244	36.322	4.410	1.00	0.00	C
ATOM	7348	CD1	LEU	770	21.160	37.448	4.899	1.00	0.00	C
ATOM	7349	CD2	LEU	770	20.747	34.932	4.811	1.00	0.00	C
ATOM	7350	C	LEU	770	18.985	37.861	6.918	1.00	0.00	C
ATOM	7351	O	LEU	770	20.075	37.959	7.472	1.00	0.00	O
ATOM	7352	N	LEU	771	18.176	38.922	6.714	1.00	0.00	N
ATOM	7353	HN	LEU	771	17.321	38.713	6.198	1.00	0.00	H
ATOM	7354	CA	LEU	771	18.321	40.301	7.105	1.00	0.00	C
ATOM	7355	CB	LEU	771	17.428	41.187	6.205	1.00	0.00	C
ATOM	7356	CG	LEU	771	17.422	42.717	6.425	1.00	0.00	C
ATOM	7357	CD1	LEU	771	16.630	43.383	5.291	1.00	0.00	C
ATOM	7358	CD2	LEU	771	16.846	43.152	7.784	1.00	0.00	C
ATOM	7359	C	LEU	771	17.989	40.571	8.539	1.00	0.00	C
ATOM	7360	O	LEU	771	18.716	41.279	9.220	1.00	0.00	O
ATOM	7361	N	LEU	772	16.892	40.005	9.051	1.00	0.00	N
ATOM	7362	HN	LEU	772	16.381	39.327	8.486	1.00	0.00	H
ATOM	7363	CA	LEU	772	16.406	40.315	10.365	1.00	0.00	C
ATOM	7364	CB	LEU	772	15.217	39.394	10.704	1.00	0.00	C
ATOM	7365	CG	LEU	772	14.662	39.501	12.132	1.00	0.00	C
ATOM	7366	CD1	LEU	772	15.578	38.838	13.173	1.00	0.00	C
ATOM	7367	CD2	LEU	772	14.333	40.959	12.473	1.00	0.00	C
ATOM	7368	C	LEU	772	17.515	40.028	11.312	1.00	0.00	C
ATOM	7369	O	LEU	772	17.639	40.658	12.355	1.00	0.00	O
ATOM	7370	N	ALA	773	18.336	39.021	11.005	1.00	0.00	N
ATOM	7371	HN	ALA	773	18.183	38.442	10.179	1.00	0.00	H
ATOM	7372	CA	ALA	773	19.438	38.790	11.883	1.00	0.00	C
ATOM	7373	CB	ALA	773	20.242	37.539	11.492	1.00	0.00	C
ATOM	7374	C	ALA	773	20.378	39.965	11.826	1.00	0.00	C
ATOM	7375	O	ALA	773	20.783	40.490	12.862	1.00	0.00	O
ATOM	7376	N	ILE	774	20.723	40.430	10.605	1.00	0.00	N
ATOM	7377	HN	ILE	774	20.290	40.018	9.779	1.00	0.00	H
ATOM	7378	CA	ILE	774	21.684	41.489	10.435	1.00	0.00	C
ATOM	7379	CB	ILE	774	22.147	41.753	9.022	1.00	0.00	C
ATOM	7380	CG1	ILE	774	21.014	42.206	8.089	1.00	0.00	C
ATOM	7381	CG2	ILE	774	22.927	40.527	8.547	1.00	0.00	C
ATOM	7382	CD1	ILE	774	21.505	42.692	6.728	1.00	0.00	C
ATOM	7383	C	ILE	774	21.236	42.812	10.976	1.00	0.00	C
ATOM	7384	O	ILE	774	22.006	43.457	11.683	1.00	0.00	O
ATOM	7385	N	VAL	775	20.004	43.277	10.686	1.00	0.00	N
ATOM	7386	HN	VAL	775	19.332	42.718	10.161	1.00	0.00	H
ATOM	7387	CA	VAL	775	19.684	44.599	11.153	1.00	0.00	C
ATOM	7388	CB	VAL	775	18.366	45.129	10.666	1.00	0.00	C
ATOM	7389	CG1	VAL	775	18.075	46.462	11.382	1.00	0.00	C
ATOM	7390	CG2	VAL	775	18.451	45.265	9.135	1.00	0.00	C
ATOM	7391	C	VAL	775	19.733	44.629	12.646	1.00	0.00	C
ATOM	7392	O	VAL	775	20.355	45.524	13.202	1.00	0.00	O
ATOM	7393	N	PRO	776	19.146	43.715	13.351	1.00	0.00	N
ATOM	7394	CA	PRO	776	19.320	43.800	14.769	1.00	0.00	C
ATOM	7395	CD	PRO	776	17.777	43.354	13.042	1.00	0.00	C
ATOM	7396	CB	PRO	776	18.345	42.786	15.353	1.00	0.00	C
ATOM	7397	CG	PRO	776	17.156	42.889	14.376	1.00	0.00	C

ATOM	7398	C	PRO	776	20.743	43.737	15.235	1.00	0.00	C
ATOM	7399	O	PRO	776	21.064	44.458	16.174	1.00	0.00	O
ATOM	7400	N	ILE	777	21.620	42.925	14.618	1.00	0.00	N
ATOM	7401	HN	ILE	777	21.324	42.347	13.831	1.00	0.00	H
ATOM	7402	CA	ILE	777	22.981	42.882	15.082	1.00	0.00	C
ATOM	7403	CB	ILE	777	23.780	41.767	14.477	1.00	0.00	C
ATOM	7404	CG1	ILE	777	23.879	41.924	12.958	1.00	0.00	C
ATOM	7405	CG2	ILE	777	23.146	40.442	14.911	1.00	0.00	C
ATOM	7406	CD1	ILE	777	24.801	40.898	12.316	1.00	0.00	C
ATOM	7407	C	ILE	777	23.664	44.178	14.784	1.00	0.00	C
ATOM	7408	O	ILE	777	24.384	44.720	15.619	1.00	0.00	O
ATOM	7409	N	ILE	778	23.468	44.701	13.563	1.00	0.00	N
ATOM	7410	HN	ILE	778	22.869	44.205	12.903	1.00	0.00	H
ATOM	7411	CA	ILE	778	24.073	45.932	13.160	1.00	0.00	C
ATOM	7412	CB	ILE	778	23.831	46.190	11.700	1.00	0.00	C
ATOM	7413	CG1	ILE	778	24.509	47.481	11.264	1.00	0.00	C
ATOM	7414	CG2	ILE	778	22.326	46.168	11.411	1.00	0.00	C
ATOM	7415	CD1	ILE	778	24.552	47.636	9.745	1.00	0.00	C
ATOM	7416	C	ILE	778	23.516	47.055	13.990	1.00	0.00	C
ATOM	7417	O	ILE	778	24.257	47.917	14.458	1.00	0.00	O
ATOM	7418	N	ALA	779	22.187	47.077	14.201	1.00	0.00	N
ATOM	7419	HN	ALA	779	21.610	46.336	13.802	1.00	0.00	H
ATOM	7420	CA	ALA	779	21.556	48.114	14.972	1.00	0.00	C
ATOM	7421	CB	ALA	779	20.029	47.956	15.053	1.00	0.00	C
ATOM	7422	C	ALA	779	22.092	48.014	16.361	1.00	0.00	C
ATOM	7423	O	ALA	779	22.443	49.015	16.986	1.00	0.00	O
ATOM	7424	N	ILE	780	22.216	46.774	16.862	1.00	0.00	N
ATOM	7425	HN	ILE	780	21.939	45.971	16.297	1.00	0.00	H
ATOM	7426	CA	ILE	780	22.732	46.569	18.178	1.00	0.00	C
ATOM	7427	CB	ILE	780	22.803	45.132	18.612	1.00	0.00	C
ATOM	7428	CG1	ILE	780	21.395	44.576	18.885	1.00	0.00	C
ATOM	7429	CG2	ILE	780	23.740	45.046	19.828	1.00	0.00	C
ATOM	7430	CD1	ILE	780	21.363	43.058	19.054	1.00	0.00	C
ATOM	7431	C	ILE	780	24.107	47.140	18.207	1.00	0.00	C
ATOM	7432	O	ILE	780	24.564	47.602	19.248	1.00	0.00	O
ATOM	7433	N	ALA	781	24.829	47.089	17.074	1.00	0.00	N
ATOM	7434	HN	ALA	781	24.433	46.670	16.232	1.00	0.00	H
ATOM	7435	CA	ALA	781	26.156	47.625	17.054	1.00	0.00	C
ATOM	7436	CB	ALA	781	26.822	47.504	15.674	1.00	0.00	C
ATOM	7437	C	ALA	781	26.077	49.076	17.392	1.00	0.00	C
ATOM	7438	O	ALA	781	26.841	49.543	18.233	1.00	0.00	O
ATOM	7439	N	GLY	782	25.100	49.807	16.813	1.00	0.00	N
ATOM	7440	HN	GLY	782	24.415	49.349	16.211	1.00	0.00	H
ATOM	7441	CA	GLY	782	25.016	51.226	17.037	1.00	0.00	C
ATOM	7442	C	GLY	782	24.941	51.461	18.516	1.00	0.00	C
ATOM	7443	O	GLY	782	25.647	52.322	19.042	1.00	0.00	O
ATOM	7444	N	VAL	783	24.100	50.694	19.234	1.00	0.00	N
ATOM	7445	HN	VAL	783	23.524	49.987	18.777	1.00	0.00	H
ATOM	7446	CA	VAL	783	24.028	50.889	20.655	1.00	0.00	C
ATOM	7447	CB	VAL	783	22.871	50.190	21.323	1.00	0.00	C
ATOM	7448	CG1	VAL	783	23.077	48.667	21.284	1.00	0.00	C
ATOM	7449	CG2	VAL	783	22.748	50.744	22.753	1.00	0.00	C
ATOM	7450	C	VAL	783	25.301	50.431	21.347	1.00	0.00	C
ATOM	7451	O	VAL	783	25.850	51.158	22.170	1.00	0.00	O
ATOM	7452	N	VAL	784	25.835	49.230	21.022	1.00	0.00	N
ATOM	7453	HN	VAL	784	25.420	48.696	20.258	1.00	0.00	H
ATOM	7454	CA	VAL	784	26.977	48.679	21.724	1.00	0.00	C
ATOM	7455	CB	VAL	784	27.356	47.304	21.252	1.00	0.00	C
ATOM	7456	CG1	VAL	784	27.705	47.376	19.757	1.00	0.00	C
ATOM	7457	CG2	VAL	784	28.512	46.790	22.129	1.00	0.00	C
ATOM	7458	C	VAL	784	28.179	49.554	21.555	1.00	0.00	C
ATOM	7459	O	VAL	784	28.953	49.743	22.493	1.00	0.00	O
ATOM	7460	N	GLU	785	28.378	50.102	20.344	1.00	0.00	N
ATOM	7461	HN	GLU	785	27.721	49.896	19.591	1.00	0.00	H
ATOM	7462	CA	GLU	785	29.490	50.968	20.084	1.00	0.00	C
ATOM	7463	CB	GLU	785	29.387	51.570	18.679	1.00	0.00	C
ATOM	7464	CG	GLU	785	30.316	52.755	18.436	1.00	0.00	C
ATOM	7465	CD	GLU	785	29.755	53.499	17.236	1.00	0.00	C
ATOM	7466	OE1	GLU	785	29.630	52.867	16.153	1.00	0.00	O
ATOM	7467	OE2	GLU	785	29.425	54.705	17.393	1.00	0.00	O
ATOM	7468	C	GLU	785	29.351	52.107	21.027	1.00	0.00	C
ATOM	7469	O	GLU	785	30.299	52.508	21.699	1.00	0.00	O
ATOM	7470	N	MET	786	28.122	52.629	21.127	1.00	0.00	N
ATOM	7471	HN	MET	786	27.358	52.228	20.583	1.00	0.00	H

ATOM	7472	CA	MET	786	27.868	53.739	21.985	1.00	0.00	C
ATOM	7473	CB	MET	786	26.379	54.131	22.011	1.00	0.00	C
ATOM	7474	CG	MET	786	25.960	54.864	23.290	1.00	0.00	C
ATOM	7475	SD	MET	786	25.470	53.759	24.656	1.00	0.00	S
ATOM	7476	CE	MET	786	25.962	54.882	25.993	1.00	0.00	C
ATOM	7477	C	MET	786	28.228	53.359	23.386	1.00	0.00	C
ATOM	7478	O	MET	786	28.877	54.134	24.085	1.00	0.00	O
ATOM	7479	N	LYS	787	27.835	52.151	23.832	1.00	0.00	N
ATOM	7480	HN	LYS	787	27.388	51.501	23.185	1.00	0.00	H
ATOM	7481	CA	LYS	787	28.032	51.757	25.202	1.00	0.00	C
ATOM	7482	CB	LYS	787	27.612	50.297	25.470	1.00	0.00	C
ATOM	7483	CG	LYS	787	27.959	49.843	26.894	1.00	0.00	C
ATOM	7484	CD	LYS	787	27.691	48.366	27.202	1.00	0.00	C
ATOM	7485	CE	LYS	787	28.984	47.542	27.280	1.00	0.00	C
ATOM	7486	NZ	LYS	787	28.693	46.130	27.611	1.00	0.00	N
ATOM	7487	HZ1	LYS	787	29.552	45.583	27.663	1.00	0.00	H
ATOM	7488	HZ2	LYS	787	28.025	45.721	26.958	1.00	0.00	H
ATOM	7489	HZ3	LYS	787	28.143	46.050	28.466	1.00	0.00	H
ATOM	7490	C	LYS	787	29.490	51.757	25.590	1.00	0.00	C
ATOM	7491	O	LYS	787	29.874	52.421	26.551	1.00	0.00	O
ATOM	7492	N	MET	788	30.352	51.024	24.855	1.00	0.00	N
ATOM	7493	HN	MET	788	30.030	50.556	24.008	1.00	0.00	H
ATOM	7494	CA	MET	788	31.730	50.902	25.267	1.00	0.00	C
ATOM	7495	CB	MET	788	32.547	49.899	24.425	1.00	0.00	C
ATOM	7496	CG	MET	788	33.994	49.732	24.909	1.00	0.00	C
ATOM	7497	SD	MET	788	34.955	48.431	24.070	1.00	0.00	S
ATOM	7498	CE	MET	788	34.473	47.086	25.192	1.00	0.00	C
ATOM	7499	C	MET	788	32.391	52.233	25.177	1.00	0.00	C
ATOM	7500	O	MET	788	33.218	52.592	26.015	1.00	0.00	O
ATOM	7501	N	LEU	789	32.041	53.000	24.132	1.00	0.00	N
ATOM	7502	HN	LEU	789	31.339	52.659	23.475	1.00	0.00	H
ATOM	7503	CA	LEU	789	32.632	54.284	23.922	1.00	0.00	C
ATOM	7504	CB	LEU	789	32.268	54.893	22.570	1.00	0.00	C
ATOM	7505	CG	LEU	789	32.880	54.041	21.448	1.00	0.00	C
ATOM	7506	CD1	LEU	789	32.812	54.752	20.090	1.00	0.00	C
ATOM	7507	CD2	LEU	789	34.292	53.574	21.837	1.00	0.00	C
ATOM	7508	C	LEU	789	32.236	55.182	25.044	1.00	0.00	C
ATOM	7509	O	LEU	789	33.010	56.050	25.436	1.00	0.00	O
ATOM	7510	N	SER	790	31.013	55.027	25.584	1.00	0.00	N
ATOM	7511	HN	SER	790	30.376	54.318	25.222	1.00	0.00	H
ATOM	7512	CA	SER	790	30.615	55.871	26.675	1.00	0.00	C
ATOM	7513	CB	SER	790	29.121	55.752	27.055	1.00	0.00	C
ATOM	7514	OG	SER	790	28.831	54.502	27.664	1.00	0.00	O
ATOM	7515	HG	SER	790	27.913	54.429	27.897	1.00	0.00	H
ATOM	7516	C	SER	790	31.438	55.545	27.886	1.00	0.00	C
ATOM	7517	O	SER	790	31.846	56.441	28.623	1.00	0.00	O
ATOM	7518	N	GLY	791	31.731	54.252	28.125	1.00	0.00	N
ATOM	7519	HN	GLY	791	31.459	53.525	27.464	1.00	0.00	H
ATOM	7520	CA	GLY	791	32.433	53.922	29.330	1.00	0.00	C
ATOM	7521	C	GLY	791	33.768	54.580	29.323	1.00	0.00	C
ATOM	7522	O	GLY	791	34.162	55.211	30.302	1.00	0.00	O
ATOM	7523	N	GLN	792	34.511	54.454	28.212	1.00	0.00	N
ATOM	7524	HN	GLN	792	34.159	53.950	27.398	1.00	0.00	H
ATOM	7525	CA	GLN	792	35.808	55.046	28.205	1.00	0.00	C
ATOM	7526	CB	GLN	792	36.715	54.522	27.088	1.00	0.00	C
ATOM	7527	CG	GLN	792	38.177	54.872	27.354	1.00	0.00	C
ATOM	7528	CD	GLN	792	38.605	54.195	28.654	1.00	0.00	C
ATOM	7529	OE1	GLN	792	37.814	53.529	29.321	1.00	0.00	O
ATOM	7530	NE2	GLN	792	39.898	54.377	29.028	1.00	0.00	N
ATOM	7531	1HE2	GLN	792	40.184	53.925	29.896	1.00	0.00	H
ATOM	7532	2HE2	GLN	792	40.554	54.929	28.475	1.00	0.00	H
ATOM	7533	C	GLN	792	35.696	56.550	28.155	1.00	0.00	C
ATOM	7534	O	GLN	792	36.469	57.237	28.816	1.00	0.00	O
ATOM	7535	N	ALA	793	34.724	57.110	27.394	1.00	0.00	N
ATOM	7536	HN	ALA	793	34.063	56.497	26.916	1.00	0.00	H
ATOM	7537	CA	ALA	793	34.584	58.545	27.231	1.00	0.00	C
ATOM	7538	CB	ALA	793	33.419	58.917	26.301	1.00	0.00	C
ATOM	7539	C	ALA	793	34.307	59.162	28.565	1.00	0.00	C
ATOM	7540	O	ALA	793	34.908	60.178	28.902	1.00	0.00	O
ATOM	7541	N	LEU	794	33.391	58.572	29.363	1.00	0.00	N
ATOM	7542	HN	LEU	794	32.940	57.709	29.060	1.00	0.00	H
ATOM	7543	CA	LEU	794	33.045	59.147	30.634	1.00	0.00	C
ATOM	7544	CB	LEU	794	31.827	58.471	31.307	1.00	0.00	C
ATOM	7545	CG	LEU	794	31.408	59.070	32.675	1.00	0.00	C

ATOM	7546	CD1	LEU	794	32.358	58.682	33.820	1.00	0.00	C
ATOM	7547	CD2	LEU	794	31.222	60.592	32.571	1.00	0.00	C
ATOM	7548	C	LEU	794	34.207	59.042	31.564	1.00	0.00	C
ATOM	7549	O	LEU	794	34.541	60.004	32.251	1.00	0.00	O
ATOM	7550	N	LYS	795	34.872	57.874	31.602	1.00	0.00	N
ATOM	7551	HN	LYS	795	34.629	57.125	30.954	1.00	0.00	H
ATOM	7552	CA	LYS	795	35.921	57.687	32.555	1.00	0.00	C
ATOM	7553	CB	LYS	795	36.426	56.231	32.592	1.00	0.00	C
ATOM	7554	CG	LYS	795	37.381	55.821	31.477	1.00	0.00	C
ATOM	7555	CD	LYS	795	38.838	56.148	31.794	1.00	0.00	C
ATOM	7556	CE	LYS	795	39.428	55.217	32.857	1.00	0.00	C
ATOM	7557	NZ	LYS	795	40.890	55.413	32.948	1.00	0.00	N
ATOM	7558	HZ1	LYS	795	41.283	54.793	33.656	1.00	0.00	H
ATOM	7559	HZ2	LYS	795	41.135	56.389	33.117	1.00	0.00	H
ATOM	7560	HZ3	LYS	795	41.348	55.298	32.044	1.00	0.00	H
ATOM	7561	C	LYS	795	37.024	58.668	32.263	1.00	0.00	C
ATOM	7562	O	LYS	795	37.597	59.237	33.187	1.00	0.00	O
ATOM	7563	N	ASP	796	37.343	58.905	30.971	1.00	0.00	N
ATOM	7564	HN	ASP	796	36.827	58.409	30.245	1.00	0.00	H
ATOM	7565	CA	ASP	796	38.382	59.829	30.569	1.00	0.00	C
ATOM	7566	CB	ASP	796	38.695	59.734	29.069	1.00	0.00	C
ATOM	7567	CG	ASP	796	40.092	60.295	28.867	1.00	0.00	C
ATOM	7568	OD1	ASP	796	40.245	61.545	28.875	1.00	0.00	O
ATOM	7569	OD2	ASP	796	41.030	59.469	28.705	1.00	0.00	O
ATOM	7570	C	ASP	796	37.981	61.227	30.882	1.00	0.00	C
ATOM	7571	O	ASP	796	38.800	62.031	31.320	1.00	0.00	O
ATOM	7572	N	LYS	797	36.697	61.555	30.673	1.00	0.00	N
ATOM	7573	HN	LYS	797	36.041	60.860	30.316	1.00	0.00	H
ATOM	7574	CA	LYS	797	36.254	62.883	30.954	1.00	0.00	C
ATOM	7575	CB	LYS	797	34.761	63.079	30.677	1.00	0.00	C
ATOM	7576	CG	LYS	797	34.432	62.864	29.201	1.00	0.00	C
ATOM	7577	CD	LYS	797	35.194	63.807	28.269	1.00	0.00	C
ATOM	7578	CE	LYS	797	35.133	63.391	26.799	1.00	0.00	C
ATOM	7579	NZ	LYS	797	36.000	62.211	26.573	1.00	0.00	N
ATOM	7580	HZ1	LYS	797	35.959	61.933	25.592	1.00	0.00	H
ATOM	7581	HZ2	LYS	797	35.768	61.440	27.199	1.00	0.00	H
ATOM	7582	HZ3	LYS	797	36.957	62.373	26.886	1.00	0.00	H
ATOM	7583	C	LYS	797	36.499	63.037	32.413	1.00	0.00	C
ATOM	7584	O	LYS	797	36.737	64.146	32.874	1.00	0.00	O
ATOM	7585	N	LYS	798	36.395	61.921	33.170	1.00	0.00	N
ATOM	7586	HN	LYS	798	36.156	61.049	32.698	1.00	0.00	H
ATOM	7587	CA	LYS	798	36.597	61.877	34.593	1.00	0.00	C
ATOM	7588	CB	LYS	798	36.139	60.539	35.194	1.00	0.00	C
ATOM	7589	CG	LYS	798	35.795	60.641	36.676	1.00	0.00	C
ATOM	7590	CD	LYS	798	34.599	61.564	36.927	1.00	0.00	C
ATOM	7591	CE	LYS	798	33.464	61.357	35.920	1.00	0.00	C
ATOM	7592	NZ	LYS	798	32.351	62.293	36.198	1.00	0.00	N
ATOM	7593	HZ1	LYS	798	31.595	62.155	35.527	1.00	0.00	H
ATOM	7594	HZ2	LYS	798	32.667	63.263	36.221	1.00	0.00	H
ATOM	7595	HZ3	LYS	798	32.023	62.218	37.161	1.00	0.00	H
ATOM	7596	C	LYS	798	38.042	62.097	34.987	1.00	0.00	C
ATOM	7597	O	LYS	798	38.322	62.925	35.849	1.00	0.00	O
ATOM	7598	N	GLU	799	39.014	61.386	34.371	1.00	0.00	N
ATOM	7599	HN	GLU	799	38.769	60.759	33.604	1.00	0.00	H
ATOM	7600	CA	GLU	799	40.395	61.501	34.783	1.00	0.00	C
ATOM	7601	CB	GLU	799	41.320	60.632	33.919	1.00	0.00	C
ATOM	7602	CG	GLU	799	40.978	59.142	33.929	1.00	0.00	C
ATOM	7603	CD	GLU	799	41.693	58.510	32.741	1.00	0.00	C
ATOM	7604	OE1	GLU	799	41.410	58.935	31.589	1.00	0.00	O
ATOM	7605	OE2	GLU	799	42.533	57.598	32.967	1.00	0.00	O
ATOM	7606	C	GLU	799	40.806	62.911	34.526	1.00	0.00	C
ATOM	7607	O	GLU	799	41.385	63.583	35.378	1.00	0.00	O
ATOM	7608	N	LEU	800	40.450	63.373	33.318	1.00	0.00	N
ATOM	7609	HN	LEU	800	39.977	62.702	32.712	1.00	0.00	H
ATOM	7610	CA	LEU	800	40.642	64.677	32.762	1.00	0.00	C
ATOM	7611	CB	LEU	800	39.951	64.693	31.384	1.00	0.00	C
ATOM	7612	CG	LEU	800	39.619	66.060	30.775	1.00	0.00	C
ATOM	7613	CD1	LEU	800	38.366	66.680	31.421	1.00	0.00	C
ATOM	7614	CD2	LEU	800	40.829	66.993	30.812	1.00	0.00	C
ATOM	7615	C	LEU	800	39.941	65.608	33.663	1.00	0.00	C
ATOM	7616	O	LEU	800	40.429	66.697	33.931	1.00	0.00	O
ATOM	7617	N	GLU	801	38.772	65.180	34.151	1.00	0.00	N
ATOM	7618	HN	GLU	801	38.449	64.252	33.878	1.00	0.00	H
ATOM	7619	CA	GLU	801	37.952	65.944	35.030	1.00	0.00	C

ATOM	7620	CB	GLU	801	36.663	65.201	35.396	1.00	0.00	C
ATOM	7621	CG	GLU	801	35.757	65.982	36.333	1.00	0.00	C
ATOM	7622	CD	GLU	801	34.451	65.213	36.440	1.00	0.00	C
ATOM	7623	OE1	GLU	801	34.250	64.277	35.621	1.00	0.00	O
ATOM	7624	OE2	GLU	801	33.638	65.552	37.339	1.00	0.00	O
ATOM	7625	C	GLU	801	38.719	66.139	36.280	1.00	0.00	C
ATOM	7626	O	GLU	801	38.620	67.180	36.919	1.00	0.00	O
ATOM	7627	N	GLY	802	39.498	65.129	36.688	1.00	0.00	N
ATOM	7628	HN	GLY	802	39.573	64.264	36.152	1.00	0.00	H
ATOM	7629	CA	GLY	802	40.216	65.316	37.902	1.00	0.00	C
ATOM	7630	C	GLY	802	41.160	66.463	37.741	1.00	0.00	C
ATOM	7631	O	GLY	802	41.201	67.365	38.578	1.00	0.00	O
ATOM	7632	N	SER	803	41.943	66.447	36.646	1.00	0.00	N
ATOM	7633	HN	SER	803	41.838	65.687	35.973	1.00	0.00	H
ATOM	7634	CA	SER	803	42.920	67.465	36.397	1.00	0.00	C
ATOM	7635	CB	SER	803	43.822	67.145	35.192	1.00	0.00	C
ATOM	7636	OG	SER	803	44.528	65.932	35.409	1.00	0.00	O
ATOM	7637	HG	SER	803	45.085	65.734	34.665	1.00	0.00	H
ATOM	7638	C	SER	803	42.249	68.777	36.097	1.00	0.00	C
ATOM	7639	O	SER	803	42.450	69.768	36.784	1.00	0.00	O
ATOM	7640	N	GLY	804	41.387	68.817	35.074	1.00	0.00	N
ATOM	7641	HN	GLY	804	41.164	67.945	34.595	1.00	0.00	H
ATOM	7642	CA	GLY	804	40.761	70.024	34.617	1.00	0.00	C
ATOM	7643	C	GLY	804	39.948	70.599	35.693	1.00	0.00	C
ATOM	7644	O	GLY	804	39.889	71.819	35.820	1.00	0.00	O
ATOM	7645	N	LYS	805	39.277	69.742	36.477	1.00	0.00	N
ATOM	7646	HN	LYS	805	39.329	68.733	36.336	1.00	0.00	H
ATOM	7647	CA	LYS	805	38.493	70.310	37.511	1.00	0.00	C
ATOM	7648	CB	LYS	805	37.757	69.304	38.411	1.00	0.00	C
ATOM	7649	CG	LYS	805	36.385	68.896	37.878	1.00	0.00	C
ATOM	7650	CD	LYS	805	35.427	70.085	37.771	1.00	0.00	C
ATOM	7651	CE	LYS	805	34.018	69.703	37.318	1.00	0.00	C
ATOM	7652	NZ	LYS	805	33.148	70.901	37.292	1.00	0.00	N
ATOM	7653	HZ1	LYS	805	32.208	70.646	36.990	1.00	0.00	H
ATOM	7654	HZ2	LYS	805	33.543	71.647	36.720	1.00	0.00	H
ATOM	7655	HZ3	LYS	805	33.142	71.387	38.189	1.00	0.00	H
ATOM	7656	C	LYS	805	39.441	71.050	38.390	1.00	0.00	C
ATOM	7657	O	LYS	805	39.115	72.147	38.829	1.00	0.00	O
ATOM	7658	N	ILE	806	40.637	70.482	38.661	1.00	0.00	N
ATOM	7659	HN	ILE	806	40.866	69.561	38.288	1.00	0.00	H
ATOM	7660	CA	ILE	806	41.579	71.188	39.477	1.00	0.00	C
ATOM	7661	CB	ILE	806	42.674	70.389	40.159	1.00	0.00	C
ATOM	7662	CG1	ILE	806	43.660	69.701	39.213	1.00	0.00	C
ATOM	7663	CG2	ILE	806	41.981	69.416	41.123	1.00	0.00	C
ATOM	7664	CD1	ILE	806	44.903	69.177	39.931	1.00	0.00	C
ATOM	7665	C	ILE	806	42.137	72.391	38.792	1.00	0.00	C
ATOM	7666	O	ILE	806	42.430	73.398	39.427	1.00	0.00	O
ATOM	7667	N	ALA	807	42.356	72.334	37.477	1.00	0.00	N
ATOM	7668	HN	ALA	807	42.154	71.487	36.947	1.00	0.00	H
ATOM	7669	CA	ALA	807	42.884	73.500	36.833	1.00	0.00	C
ATOM	7670	CB	ALA	807	43.054	73.320	35.318	1.00	0.00	C
ATOM	7671	C	ALA	807	41.877	74.588	37.023	1.00	0.00	C
ATOM	7672	O	ALA	807	42.236	75.750	37.203	1.00	0.00	O
ATOM	7673	N	THR	808	40.582	74.223	36.947	1.00	0.00	N
ATOM	7674	HN	THR	808	40.360	73.248	36.744	1.00	0.00	H
ATOM	7675	CA	THR	808	39.503	75.147	37.140	1.00	0.00	C
ATOM	7676	CB	THR	808	38.154	74.568	36.826	1.00	0.00	C
ATOM	7677	OG1	THR	808	38.101	74.145	35.472	1.00	0.00	O
ATOM	7678	HG1	THR	808	37.247	73.779	35.273	1.00	0.00	H
ATOM	7679	CG2	THR	808	37.084	75.643	37.094	1.00	0.00	C
ATOM	7680	C	THR	808	39.495	75.530	38.560	1.00	0.00	C
ATOM	7681	O	THR	808	39.165	76.664	38.897	1.00	0.00	O
ATOM	7682	N	GLU	809	39.841	74.582	39.445	1.00	0.00	N
ATOM	7683	HN	GLU	809	40.132	73.649	39.154	1.00	0.00	H
ATOM	7684	CA	GLU	809	39.776	74.960	40.805	1.00	0.00	C
ATOM	7685	CB	GLU	809	40.023	73.838	41.842	1.00	0.00	C
ATOM	7686	CG	GLU	809	41.454	73.321	41.977	1.00	0.00	C
ATOM	7687	CD	GLU	809	41.467	72.238	43.050	1.00	0.00	C
ATOM	7688	OE1	GLU	809	40.421	72.046	43.726	1.00	0.00	O
ATOM	7689	OE2	GLU	809	42.535	71.588	43.208	1.00	0.00	O
ATOM	7690	C	GLU	809	40.752	76.060	41.002	1.00	0.00	C
ATOM	7691	O	GLU	809	40.407	77.050	41.634	1.00	0.00	O
ATOM	7692	N	ALA	810	41.970	75.949	40.436	1.00	0.00	N
ATOM	7693	HN	ALA	810	42.222	75.125	39.891	1.00	0.00	H



ATOM	7694	CA	ALA	810	42.899	77.021	40.622	1.00	0.00	C
ATOM	7695	CB	ALA	810	44.321	76.672	40.152	1.00	0.00	C
ATOM	7696	C	ALA	810	42.485	78.269	39.896	1.00	0.00	C
ATOM	7697	O	ALA	810	42.271	79.305	40.509	1.00	0.00	O
ATOM	7698	N	ILE	811	42.255	78.202	38.576	1.00	0.00	N
ATOM	7699	HN	ILE	811	42.258	77.304	38.092	1.00	0.00	H
ATOM	7700	CA	ILE	811	42.005	79.420	37.860	1.00	0.00	C
ATOM	7701	CB	ILE	811	41.959	79.217	36.366	1.00	0.00	C
ATOM	7702	CG1	ILE	811	40.810	78.291	35.926	1.00	0.00	C
ATOM	7703	CG2	ILE	811	43.346	78.697	35.946	1.00	0.00	C
ATOM	7704	CD1	ILE	811	39.444	78.969	35.832	1.00	0.00	C
ATOM	7705	C	ILE	811	40.728	80.033	38.362	1.00	0.00	C
ATOM	7706	O	ILE	811	40.644	81.245	38.543	1.00	0.00	O
ATOM	7707	N	GLU	812	39.696	79.208	38.625	1.00	0.00	N
ATOM	7708	HN	GLU	812	39.812	78.202	38.505	1.00	0.00	H
ATOM	7709	CA	GLU	812	38.437	79.728	39.071	1.00	0.00	C
ATOM	7710	CB	GLU	812	37.272	78.736	39.195	1.00	0.00	C
ATOM	7711	CG	GLU	812	35.989	79.502	39.553	1.00	0.00	C
ATOM	7712	CD	GLU	812	34.788	78.571	39.592	1.00	0.00	C
ATOM	7713	OE1	GLU	812	34.990	77.330	39.524	1.00	0.00	O
ATOM	7714	OE2	GLU	812	33.646	79.095	39.692	1.00	0.00	O
ATOM	7715	C	GLU	812	38.644	80.303	40.402	1.00	0.00	C
ATOM	7716	O	GLU	812	37.914	81.192	40.833	1.00	0.00	O
ATOM	7717	N	ASN	813	39.614	79.742	41.120	1.00	0.00	N
ATOM	7718	HN	ASN	813	40.160	78.964	40.749	1.00	0.00	H
ATOM	7719	CA	ASN	813	39.864	80.256	42.409	1.00	0.00	C
ATOM	7720	CB	ASN	813	39.958	79.169	43.492	1.00	0.00	C
ATOM	7721	CG	ASN	813	38.562	78.587	43.685	1.00	0.00	C
ATOM	7722	OD1	ASN	813	37.573	79.313	43.774	1.00	0.00	O
ATOM	7723	ND2	ASN	813	38.478	77.231	43.746	1.00	0.00	N
ATOM	7724	1HD2	ASN	813	37.544	76.842	43.875	1.00	0.00	H
ATOM	7725	2HD2	ASN	813	39.298	76.629	43.672	1.00	0.00	H
ATOM	7726	C	ASN	813	41.159	80.977	42.355	1.00	0.00	C
ATOM	7727	O	ASN	813	42.144	80.486	42.893	1.00	0.00	O
ATOM	7728	N	PHE	814	41.158	82.251	41.874	1.00	0.00	N
ATOM	7729	HN	PHE	814	40.265	82.621	41.547	1.00	0.00	H
ATOM	7730	CA	PHE	814	42.306	83.129	41.783	1.00	0.00	C
ATOM	7731	CB	PHE	814	42.056	84.497	41.110	1.00	0.00	C
ATOM	7732	CG	PHE	814	41.218	85.393	41.961	1.00	0.00	C
ATOM	7733	CD1	PHE	814	41.777	86.132	42.984	1.00	0.00	C
ATOM	7734	CD2	PHE	814	39.874	85.531	41.710	1.00	0.00	C
ATOM	7735	CE1	PHE	814	41.012	86.965	43.763	1.00	0.00	C
ATOM	7736	CE2	PHE	814	39.101	86.365	42.483	1.00	0.00	C
ATOM	7737	CZ	PHE	814	39.666	87.080	43.513	1.00	0.00	C
ATOM	7738	C	PHE	814	42.741	83.377	43.185	1.00	0.00	C
ATOM	7739	O	PHE	814	43.788	83.964	43.452	1.00	0.00	O
ATOM	7740	N	ARG	815	41.883	82.926	44.112	1.00	0.00	N
ATOM	7741	HN	ARG	815	41.021	82.531	43.737	1.00	0.00	H
ATOM	7742	CA	ARG	815	41.974	82.907	45.516	1.00	0.00	C
ATOM	7743	CB	ARG	815	40.918	82.092	46.296	1.00	0.00	C
ATOM	7744	CG	ARG	815	39.492	82.632	46.387	1.00	0.00	C
ATOM	7745	CD	ARG	815	38.531	82.116	45.321	1.00	0.00	C
ATOM	7746	NE	ARG	815	38.702	82.905	44.079	1.00	0.00	N
ATOM	7747	HE	ARG	815	39.504	83.522	43.952	1.00	0.00	H
ATOM	7748	CZ	ARG	815	37.751	82.778	43.112	1.00	0.00	C
ATOM	7749	NH1	ARG	815	36.745	81.869	43.278	1.00	0.00	N
ATOM	7750	1HH1	ARG	815	36.708	81.278	44.108	1.00	0.00	H
ATOM	7751	2HH1	ARG	815	36.033	81.774	42.554	1.00	0.00	H
ATOM	7752	NH2	ARG	815	37.801	83.568	42.002	1.00	0.00	N
ATOM	7753	1HH2	ARG	815	38.552	84.247	41.878	1.00	0.00	H
ATOM	7754	2HH2	ARG	815	37.089	83.473	41.278	1.00	0.00	H
ATOM	7755	C	ARG	815	43.243	82.222	45.923	1.00	0.00	C
ATOM	7756	O	ARG	815	43.429	81.960	47.105	1.00	0.00	O
ATOM	7757	N	THR	816	43.964	81.619	44.971	1.00	0.00	N
ATOM	7758	HN	THR	816	43.539	81.533	44.048	1.00	0.00	H
ATOM	7759	CA	THR	816	45.280	81.085	45.139	1.00	0.00	C
ATOM	7760	CB	THR	816	45.595	80.125	44.037	1.00	0.00	C
ATOM	7761	OG1	THR	816	46.941	79.687	44.139	1.00	0.00	O
ATOM	7762	HG1	THR	816	47.100	79.263	44.974	1.00	0.00	H
ATOM	7763	CG2	THR	816	45.338	80.812	42.685	1.00	0.00	C
ATOM	7764	C	THR	816	46.345	82.138	45.121	1.00	0.00	C
ATOM	7765	O	THR	816	47.140	82.227	46.050	1.00	0.00	O
ATOM	7766	N	VAL	817	46.322	83.044	44.107	1.00	0.00	N
ATOM	7767	HN	VAL	817	45.533	83.001	43.462	1.00	0.00	H

ATOM	7768	CA	VAL	817	47.314	84.059	43.865	1.00	0.00	C
ATOM	7769	CB	VAL	817	47.075	84.909	42.650	1.00	0.00	C
ATOM	7770	CG1	VAL	817	46.816	83.976	41.462	1.00	0.00	C
ATOM	7771	CG2	VAL	817	45.986	85.947	42.927	1.00	0.00	C
ATOM	7772	C	VAL	817	47.223	84.920	45.060	1.00	0.00	C
ATOM	7773	O	VAL	817	48.124	85.696	45.366	1.00	0.00	O
ATOM	7774	N	VAL	818	46.075	84.816	45.746	1.00	0.00	N
ATOM	7775	HN	VAL	818	45.332	84.204	45.409	1.00	0.00	H
ATOM	7776	CA	VAL	818	45.899	85.553	46.932	1.00	0.00	C
ATOM	7777	CB	VAL	818	44.593	85.328	47.647	1.00	0.00	C
ATOM	7778	CG1	VAL	818	44.619	84.009	48.422	1.00	0.00	C
ATOM	7779	CG2	VAL	818	44.349	86.532	48.563	1.00	0.00	C
ATOM	7780	C	VAL	818	47.033	85.224	47.850	1.00	0.00	C
ATOM	7781	O	VAL	818	47.560	86.131	48.483	1.00	0.00	O
ATOM	7782	N	SER	819	47.383	83.929	48.021	1.00	0.00	N
ATOM	7783	HN	SER	819	46.826	83.212	47.557	1.00	0.00	H
ATOM	7784	CA	SER	819	48.499	83.513	48.822	1.00	0.00	C
ATOM	7785	CB	SER	819	48.211	82.177	49.513	1.00	0.00	C
ATOM	7786	OG	SER	819	49.270	81.851	50.391	1.00	0.00	O
ATOM	7787	HG	SER	819	49.091	81.022	50.820	1.00	0.00	H
ATOM	7788	C	SER	819	49.743	83.361	47.978	1.00	0.00	C
ATOM	7789	O	SER	819	50.856	83.645	48.414	1.00	0.00	O
ATOM	7790	N	LEU	820	49.571	82.833	46.750	1.00	0.00	N
ATOM	7791	HN	LEU	820	48.618	82.574	46.494	1.00	0.00	H
ATOM	7792	CA	LEU	820	50.590	82.596	45.762	1.00	0.00	C
ATOM	7793	CB	LEU	820	51.251	83.932	45.337	1.00	0.00	C
ATOM	7794	CG	LEU	820	52.255	83.891	44.164	1.00	0.00	C
ATOM	7795	CD1	LEU	820	52.422	85.290	43.549	1.00	0.00	C
ATOM	7796	CD2	LEU	820	53.633	83.367	44.599	1.00	0.00	C
ATOM	7797	C	LEU	820	51.537	81.549	46.296	1.00	0.00	C
ATOM	7798	O	LEU	820	52.501	81.134	45.655	1.00	0.00	O
ATOM	7799	N	THR	821	51.186	80.989	47.461	1.00	0.00	N
ATOM	7800	HN	THR	821	50.306	81.282	47.885	1.00	0.00	H
ATOM	7801	CA	THR	821	51.966	80.006	48.149	1.00	0.00	C
ATOM	7802	CB	THR	821	51.577	79.799	49.585	1.00	0.00	C
ATOM	7803	OG1	THR	821	50.196	79.490	49.694	1.00	0.00	O
ATOM	7804	HG1	THR	821	49.950	79.359	50.602	1.00	0.00	H
ATOM	7805	CG2	THR	821	51.933	81.066	50.380	1.00	0.00	C
ATOM	7806	C	THR	821	52.024	78.662	47.448	1.00	0.00	C
ATOM	7807	O	THR	821	52.626	77.773	48.041	1.00	0.00	O
ATOM	7808	N	GLN	822	51.171	78.360	46.424	1.00	0.00	N
ATOM	7809	HN	GLN	822	50.424	79.025	46.221	1.00	0.00	H
ATOM	7810	CA	GLN	822	51.247	77.158	45.598	1.00	0.00	C
ATOM	7811	CB	GLN	822	49.933	76.382	45.586	1.00	0.00	C
ATOM	7812	CG	GLN	822	49.572	75.946	46.999	1.00	0.00	C
ATOM	7813	CD	GLN	822	50.794	75.256	47.593	1.00	0.00	C
ATOM	7814	OE1	GLN	822	51.313	75.676	48.625	1.00	0.00	O
ATOM	7815	NE2	GLN	822	51.274	74.171	46.932	1.00	0.00	N
ATOM	7816	1HE2	GLN	822	52.092	73.709	47.330	1.00	0.00	H
ATOM	7817	2HE2	GLN	822	50.843	73.822	46.076	1.00	0.00	H
ATOM	7818	C	GLN	822	51.759	77.233	44.164	1.00	0.00	C
ATOM	7819	O	GLN	822	52.272	76.242	43.653	1.00	0.00	O
ATOM	7820	N	GLU	823	51.540	78.369	43.458	1.00	0.00	N
ATOM	7821	HN	GLU	823	51.168	79.153	43.994	1.00	0.00	H
ATOM	7822	CA	GLU	823	51.761	78.628	42.042	1.00	0.00	C
ATOM	7823	CB	GLU	823	52.760	79.769	41.779	1.00	0.00	C
ATOM	7824	CG	GLU	823	52.293	81.132	42.311	1.00	0.00	C
ATOM	7825	CD	GLU	823	50.981	81.565	41.652	1.00	0.00	C
ATOM	7826	OE1	GLU	823	50.093	80.701	41.422	1.00	0.00	O
ATOM	7827	OE2	GLU	823	50.842	82.791	41.395	1.00	0.00	O
ATOM	7828	C	GLU	823	52.141	77.432	41.203	1.00	0.00	C
ATOM	7829	O	GLU	823	51.323	76.576	40.854	1.00	0.00	O
ATOM	7830	N	GLN	824	53.422	77.371	40.813	1.00	0.00	N
ATOM	7831	HN	GLN	824	54.080	78.082	41.132	1.00	0.00	H
ATOM	7832	CA	GLN	824	53.878	76.321	39.954	1.00	0.00	C
ATOM	7833	CB	GLN	824	55.392	76.408	39.705	1.00	0.00	C
ATOM	7834	CG	GLN	824	55.888	75.409	38.663	1.00	0.00	C
ATOM	7835	CD	GLN	824	55.260	75.789	37.330	1.00	0.00	C
ATOM	7836	OE1	GLN	824	55.351	76.934	36.889	1.00	0.00	O
ATOM	7837	NE2	GLN	824	54.595	74.802	36.672	1.00	0.00	N
ATOM	7838	1HE2	GLN	824	54.520	73.853	37.038	1.00	0.00	H
ATOM	7839	2HE2	GLN	824	54.174	75.057	35.779	1.00	0.00	H
ATOM	7840	C	GLN	824	53.592	75.022	40.623	1.00	0.00	C
ATOM	7841	O	GLN	824	53.141	74.082	39.966	1.00	0.00	O

ATOM	7842	N	LYS	825	53.777	74.978	41.959	1.00	0.00	N
ATOM	7843	HN	LYS	825	54.075	75.826	42.441	1.00	0.00	H
ATOM	7844	CA	LYS	825	53.570	73.783	42.727	1.00	0.00	C
ATOM	7845	CB	LYS	825	53.699	73.990	44.250	1.00	0.00	C
ATOM	7846	CG	LYS	825	53.497	72.734	45.108	1.00	0.00	C
ATOM	7847	CD	LYS	825	52.080	72.150	45.073	1.00	0.00	C
ATOM	7848	CE	LYS	825	51.801	71.133	46.179	1.00	0.00	C
ATOM	7849	NZ	LYS	825	50.342	70.939	46.326	1.00	0.00	N
ATOM	7850	HZ1	LYS	825	50.156	70.260	47.064	1.00	0.00	H
ATOM	7851	HZ2	LYS	825	49.899	70.678	45.445	1.00	0.00	H
ATOM	7852	HZ3	LYS	825	49.852	71.820	46.483	1.00	0.00	H
ATOM	7853	C	LYS	825	52.188	73.333	42.389	1.00	0.00	C
ATOM	7854	O	LYS	825	51.904	72.137	42.331	1.00	0.00	O
ATOM	7855	N	PHE	826	51.291	74.302	42.152	1.00	0.00	N
ATOM	7856	HN	PHE	826	51.574	75.281	42.202	1.00	0.00	H
ATOM	7857	CA	PHE	826	49.941	73.967	41.830	1.00	0.00	C
ATOM	7858	CB	PHE	826	49.072	75.220	41.664	1.00	0.00	C
ATOM	7859	CG	PHE	826	47.864	75.077	42.522	1.00	0.00	C
ATOM	7860	CD1	PHE	826	46.948	74.068	42.346	1.00	0.00	C
ATOM	7861	CD2	PHE	826	47.684	75.953	43.566	1.00	0.00	C
ATOM	7862	CE1	PHE	826	45.853	73.967	43.175	1.00	0.00	C
ATOM	7863	CE2	PHE	826	46.593	75.859	44.394	1.00	0.00	C
ATOM	7864	CZ	PHE	826	45.669	74.865	44.198	1.00	0.00	C
ATOM	7865	C	PHE	826	49.811	73.244	40.525	1.00	0.00	C
ATOM	7866	O	PHE	826	49.639	72.029	40.502	1.00	0.00	O
ATOM	7867	N	GLU	827	50.062	73.956	39.405	1.00	0.00	N
ATOM	7868	HN	GLU	827	50.446	74.895	39.507	1.00	0.00	H
ATOM	7869	CA	GLU	827	49.817	73.462	38.072	1.00	0.00	C
ATOM	7870	CB	GLU	827	50.239	74.485	37.007	1.00	0.00	C
ATOM	7871	CG	GLU	827	49.393	74.401	35.745	1.00	0.00	C
ATOM	7872	CD	GLU	827	47.994	74.824	36.167	1.00	0.00	C
ATOM	7873	OE1	GLU	827	47.860	75.919	36.776	1.00	0.00	O
ATOM	7874	OE2	GLU	827	47.040	74.046	35.906	1.00	0.00	O
ATOM	7875	C	GLU	827	50.663	72.249	37.947	1.00	0.00	C
ATOM	7876	O	GLU	827	50.384	71.351	37.151	1.00	0.00	O
ATOM	7877	N	HIS	828	51.746	72.229	38.745	1.00	0.00	N
ATOM	7878	HN	HIS	828	51.915	73.025	39.359	1.00	0.00	H
ATOM	7879	CA	HIS	828	52.670	71.138	38.768	1.00	0.00	C
ATOM	7880	ND1	HIS	828	55.859	69.985	39.129	1.00	0.00	N
ATOM	7881	HD1	HIS	828	56.245	70.657	38.466	1.00	0.00	H
ATOM	7882	CG	HIS	828	54.697	70.125	39.861	1.00	0.00	C
ATOM	7883	CB	HIS	828	53.792	71.319	39.798	1.00	0.00	C
ATOM	7884	NE2	HIS	828	55.651	68.137	40.351	1.00	0.00	N
ATOM	7885	HE2	HIS	828	55.827	67.220	40.762	1.00	0.00	H
ATOM	7886	CD2	HIS	828	54.588	68.987	40.598	1.00	0.00	C
ATOM	7887	CE1	HIS	828	56.387	68.782	39.461	1.00	0.00	C
ATOM	7888	C	HIS	828	51.979	69.871	39.150	1.00	0.00	C
ATOM	7889	O	HIS	828	52.154	68.844	38.497	1.00	0.00	O
ATOM	7890	N	MET	829	51.144	69.915	40.200	1.00	0.00	N
ATOM	7891	HN	MET	829	50.979	70.799	40.682	1.00	0.00	H
ATOM	7892	CA	MET	829	50.483	68.725	40.647	1.00	0.00	C
ATOM	7893	CB	MET	829	49.578	68.984	41.866	1.00	0.00	C
ATOM	7894	CG	MET	829	48.358	69.856	41.574	1.00	0.00	C
ATOM	7895	SD	MET	829	47.699	70.739	43.022	1.00	0.00	S
ATOM	7896	CE	MET	829	47.432	69.277	44.063	1.00	0.00	C
ATOM	7897	C	MET	829	49.669	68.243	39.485	1.00	0.00	C
ATOM	7898	O	MET	829	49.503	67.045	39.262	1.00	0.00	O
ATOM	7899	N	TYR	830	49.151	69.196	38.697	1.00	0.00	N
ATOM	7900	HN	TYR	830	49.340	70.170	38.934	1.00	0.00	H
ATOM	7901	CA	TYR	830	48.344	68.927	37.536	1.00	0.00	C
ATOM	7902	CB	TYR	830	47.861	70.202	36.815	1.00	0.00	C
ATOM	7903	CG	TYR	830	47.013	71.013	37.728	1.00	0.00	C
ATOM	7904	CD1	TYR	830	47.534	71.474	38.902	1.00	0.00	C
ATOM	7905	CD2	TYR	830	45.732	71.374	37.417	1.00	0.00	C
ATOM	7906	CE1	TYR	830	46.845	72.240	39.802	1.00	0.00	C
ATOM	7907	CE2	TYR	830	45.030	72.145	38.312	1.00	0.00	C
ATOM	7908	CZ	TYR	830	45.561	72.579	39.498	1.00	0.00	C
ATOM	7909	OH	TYR	830	44.811	73.369	40.393	1.00	0.00	O
ATOM	7910	HH	TYR	830	45.179	73.670	41.215	1.00	0.00	H
ATOM	7911	C	TYR	830	49.184	68.238	36.520	1.00	0.00	C
ATOM	7912	O	TYR	830	48.698	67.391	35.773	1.00	0.00	O
ATOM	7913	N	ALA	831	50.471	68.617	36.435	1.00	0.00	N
ATOM	7914	HN	ALA	831	50.856	69.293	37.095	1.00	0.00	H
ATOM	7915	CA	ALA	831	51.293	68.057	35.404	1.00	0.00	C

ATOM	7916	CB	ALA	831	52.747	68.555	35.469	1.00	0.00	C
ATOM	7917	C	ALA	831	51.309	66.578	35.583	1.00	0.00	C
ATOM	7918	O	ALA	831	51.257	65.822	34.613	1.00	0.00	O
ATOM	7919	N	GLN	832	51.389	66.125	36.842	1.00	0.00	N
ATOM	7920	HN	GLN	832	51.410	66.776	37.627	1.00	0.00	H
ATOM	7921	CA	GLN	832	51.444	64.715	37.067	1.00	0.00	C
ATOM	7922	CB	GLN	832	51.792	64.373	38.519	1.00	0.00	C
ATOM	7923	CG	GLN	832	53.127	64.988	38.950	1.00	0.00	C
ATOM	7924	CD	GLN	832	54.215	64.530	37.984	1.00	0.00	C
ATOM	7925	OE1	GLN	832	54.172	64.831	36.791	1.00	0.00	O
ATOM	7926	NE2	GLN	832	55.225	63.785	38.508	1.00	0.00	N
ATOM	7927	1HE2	GLN	832	55.261	63.536	39.496	1.00	0.00	H
ATOM	7928	2HE2	GLN	832	55.953	63.479	37.862	1.00	0.00	H
ATOM	7929	C	GLN	832	50.140	64.078	36.708	1.00	0.00	C
ATOM	7930	O	GLN	832	50.104	63.023	36.073	1.00	0.00	O
ATOM	7931	N	SER	833	49.029	64.738	37.076	1.00	0.00	N
ATOM	7932	HN	SER	833	49.122	65.651	37.520	1.00	0.00	H
ATOM	7933	CA	SER	833	47.717	64.201	36.865	1.00	0.00	C
ATOM	7934	CB	SER	833	46.627	65.239	37.165	1.00	0.00	C
ATOM	7935	OG	SER	833	46.848	65.809	38.444	1.00	0.00	O
ATOM	7936	HG	SER	833	46.173	66.452	38.630	1.00	0.00	H
ATOM	7937	C	SER	833	47.594	63.886	35.419	1.00	0.00	C
ATOM	7938	O	SER	833	47.331	62.742	35.064	1.00	0.00	O
ATOM	7939	N	LEU	834	47.891	64.866	34.549	1.00	0.00	N
ATOM	7940	HN	LEU	834	48.247	65.757	34.896	1.00	0.00	H
ATOM	7941	CA	LEU	834	47.714	64.675	33.140	1.00	0.00	C
ATOM	7942	CB	LEU	834	48.214	65.840	32.259	1.00	0.00	C
ATOM	7943	CG	LEU	834	47.316	67.095	32.179	1.00	0.00	C
ATOM	7944	CD1	LEU	834	45.973	66.778	31.501	1.00	0.00	C
ATOM	7945	CD2	LEU	834	47.167	67.801	33.533	1.00	0.00	C
ATOM	7946	C	LEU	834	48.502	63.493	32.709	1.00	0.00	C
ATOM	7947	O	LEU	834	48.009	62.687	31.922	1.00	0.00	O
ATOM	7948	N	GLN	835	49.703	63.324	33.288	1.00	0.00	N
ATOM	7949	HN	GLN	835	49.965	63.940	34.057	1.00	0.00	H
ATOM	7950	CA	GLN	835	50.632	62.314	32.870	1.00	0.00	C
ATOM	7951	CB	GLN	835	51.746	62.190	33.920	1.00	0.00	C
ATOM	7952	CG	GLN	835	52.721	61.033	33.735	1.00	0.00	C
ATOM	7953	CD	GLN	835	53.648	61.075	34.945	1.00	0.00	C
ATOM	7954	OE1	GLN	835	54.828	61.402	34.835	1.00	0.00	O
ATOM	7955	NE2	GLN	835	53.090	60.750	36.142	1.00	0.00	N
ATOM	7956	1HE2	GLN	835	52.111	60.479	36.233	1.00	0.00	H
ATOM	7957	2HE2	GLN	835	53.710	60.778	36.951	1.00	0.00	H
ATOM	7958	C	GLN	835	49.934	60.988	32.809	1.00	0.00	C
ATOM	7959	O	GLN	835	49.988	60.302	31.787	1.00	0.00	O
ATOM	7960	N	VAL	836	49.212	60.612	33.878	1.00	0.00	N
ATOM	7961	HN	VAL	836	49.145	61.215	34.698	1.00	0.00	H
ATOM	7962	CA	VAL	836	48.536	59.346	33.845	1.00	0.00	C
ATOM	7963	CB	VAL	836	48.059	58.893	35.211	1.00	0.00	C
ATOM	7964	CG1	VAL	836	47.722	60.098	36.111	1.00	0.00	C
ATOM	7965	CG2	VAL	836	46.881	57.924	35.011	1.00	0.00	C
ATOM	7966	C	VAL	836	47.448	59.299	32.802	1.00	0.00	C
ATOM	7967	O	VAL	836	47.442	58.361	31.998	1.00	0.00	O
ATOM	7968	N	PRO	837	46.541	60.230	32.692	1.00	0.00	N
ATOM	7969	CA	PRO	837	45.594	60.061	31.635	1.00	0.00	C
ATOM	7970	CD	PRO	837	45.840	60.721	33.864	1.00	0.00	C
ATOM	7971	CB	PRO	837	44.463	61.043	31.907	1.00	0.00	C
ATOM	7972	CG	PRO	837	44.406	61.063	33.437	1.00	0.00	C
ATOM	7973	C	PRO	837	46.187	60.166	30.278	1.00	0.00	C
ATOM	7974	O	PRO	837	45.495	59.829	29.319	1.00	0.00	O
ATOM	7975	N	TYR	838	47.422	60.679	30.156	1.00	0.00	N
ATOM	7976	HN	TYR	838	47.941	60.966	30.986	1.00	0.00	H
ATOM	7977	CA	TYR	838	48.008	60.822	28.855	1.00	0.00	C
ATOM	7978	CB	TYR	838	49.287	61.679	28.911	1.00	0.00	C
ATOM	7979	CG	TYR	838	49.671	61.990	27.510	1.00	0.00	C
ATOM	7980	CD1	TYR	838	48.987	62.964	26.822	1.00	0.00	C
ATOM	7981	CD2	TYR	838	50.679	61.304	26.877	1.00	0.00	C
ATOM	7982	CE1	TYR	838	49.310	63.268	25.524	1.00	0.00	C
ATOM	7983	CE2	TYR	838	51.008	61.605	25.577	1.00	0.00	C
ATOM	7984	CZ	TYR	838	50.325	62.588	24.901	1.00	0.00	C
ATOM	7985	OH	TYR	838	50.654	62.902	23.567	1.00	0.00	O
ATOM	7986	HH	TYR	838	51.357	62.431	23.135	1.00	0.00	H
ATOM	7987	C	TYR	838	48.324	59.473	28.271	1.00	0.00	C
ATOM	7988	O	TYR	838	47.957	59.175	27.133	1.00	0.00	O
ATOM	7989	N	ARG	839	48.983	58.599	29.058	1.00	0.00	N

ATOM	7990	HN	ARG	839	49.210	58.851	30.020	1.00	0.00	H
ATOM	7991	CA	ARG	839	49.366	57.312	28.543	1.00	0.00	C
ATOM	7992	CB	ARG	839	50.116	56.463	29.585	1.00	0.00	C
ATOM	7993	CG	ARG	839	51.529	56.962	29.882	1.00	0.00	C
ATOM	7994	CD	ARG	839	52.134	56.341	31.140	1.00	0.00	C
ATOM	7995	NE	ARG	839	51.328	56.843	32.287	1.00	0.00	N
ATOM	7996	HE	ARG	839	50.309	56.812	32.251	1.00	0.00	H
ATOM	7997	CZ	ARG	839	51.961	57.344	33.386	1.00	0.00	C
ATOM	7998	NH1	ARG	839	53.325	57.345	33.434	1.00	0.00	N
ATOM	7999	1HH1	ARG	839	53.798	57.720	34.256	1.00	0.00	H
ATOM	8000	2HH1	ARG	839	53.866	56.964	32.658	1.00	0.00	H
ATOM	8001	NH2	ARG	839	51.237	57.853	34.424	1.00	0.00	N
ATOM	8002	1HH2	ARG	839	51.710	58.228	35.246	1.00	0.00	H
ATOM	8003	2HH2	ARG	839	50.218	57.852	34.388	1.00	0.00	H
ATOM	8004	C	ARG	839	48.116	56.580	28.191	1.00	0.00	C
ATOM	8005	O	ARG	839	47.983	55.992	27.117	1.00	0.00	O
ATOM	8006	N	ASN	840	47.138	56.672	29.100	1.00	0.00	N
ATOM	8007	HN	ASN	840	47.305	57.246	29.926	1.00	0.00	H
ATOM	8008	CA	ASN	840	45.873	56.015	28.984	1.00	0.00	C
ATOM	8009	CB	ASN	840	44.957	56.409	30.158	1.00	0.00	C
ATOM	8010	CG	ASN	840	43.550	55.887	29.915	1.00	0.00	C
ATOM	8011	OD1	ASN	840	42.799	56.451	29.122	1.00	0.00	O
ATOM	8012	ND2	ASN	840	43.177	54.790	30.624	1.00	0.00	N
ATOM	8013	1HD2	ASN	840	43.800	54.322	31.282	1.00	0.00	H
ATOM	8014	2HD2	ASN	840	42.233	54.440	30.461	1.00	0.00	H
ATOM	8015	C	ASN	840	45.216	56.459	27.712	1.00	0.00	C
ATOM	8016	O	ASN	840	44.563	55.667	27.034	1.00	0.00	O
ATOM	8017	N	SER	841	45.383	57.745	27.354	1.00	0.00	N
ATOM	8018	HN	SER	841	45.994	58.340	27.914	1.00	0.00	H
ATOM	8019	CA	SER	841	44.724	58.304	26.204	1.00	0.00	C
ATOM	8020	CB	SER	841	44.993	59.809	26.041	1.00	0.00	C
ATOM	8021	OG	SER	841	44.296	60.313	24.911	1.00	0.00	O
ATOM	8022	HG	SER	841	44.462	61.243	24.810	1.00	0.00	H
ATOM	8023	C	SER	841	45.163	57.623	24.949	1.00	0.00	C
ATOM	8024	O	SER	841	44.332	57.320	24.095	1.00	0.00	O
ATOM	8025	N	LEU	842	46.469	57.333	24.801	1.00	0.00	N
ATOM	8026	HN	LEU	842	47.133	57.523	25.552	1.00	0.00	H
ATOM	8027	CA	LEU	842	46.909	56.751	23.564	1.00	0.00	C
ATOM	8028	CB	LEU	842	48.426	56.498	23.502	1.00	0.00	C
ATOM	8029	CG	LEU	842	49.258	57.793	23.492	1.00	0.00	C
ATOM	8030	CD1	LEU	842	50.747	57.502	23.240	1.00	0.00	C
ATOM	8031	CD2	LEU	842	48.675	58.816	22.505	1.00	0.00	C
ATOM	8032	C	LEU	842	46.219	55.441	23.372	1.00	0.00	C
ATOM	8033	O	LEU	842	45.768	55.111	22.275	1.00	0.00	O
ATOM	8034	N	ARG	843	46.100	54.668	24.459	1.00	0.00	N
ATOM	8035	HN	ARG	843	46.444	55.017	25.354	1.00	0.00	H
ATOM	8036	CA	ARG	843	45.505	53.369	24.404	1.00	0.00	C
ATOM	8037	CB	ARG	843	45.436	52.813	25.832	1.00	0.00	C
ATOM	8038	CG	ARG	843	44.761	51.460	25.999	1.00	0.00	C
ATOM	8039	CD	ARG	843	44.723	51.050	27.470	1.00	0.00	C
ATOM	8040	NE	ARG	843	46.140	50.948	27.916	1.00	0.00	N
ATOM	8041	HE	ARG	843	46.811	50.424	27.355	1.00	0.00	H
ATOM	8042	CZ	ARG	843	46.547	51.551	29.070	1.00	0.00	C
ATOM	8043	NH1	ARG	843	45.651	52.235	29.840	1.00	0.00	N
ATOM	8044	1HH1	ARG	843	45.955	52.686	30.703	1.00	0.00	H
ATOM	8045	2HH1	ARG	843	44.671	52.285	29.560	1.00	0.00	H
ATOM	8046	NH2	ARG	843	47.859	51.484	29.445	1.00	0.00	N
ATOM	8047	1HH2	ARG	843	48.163	51.935	30.308	1.00	0.00	H
ATOM	8048	2HH2	ARG	843	48.528	50.973	28.870	1.00	0.00	H
ATOM	8049	C	ARG	843	44.102	53.487	23.885	1.00	0.00	C
ATOM	8050	O	ARG	843	43.738	52.881	22.877	1.00	0.00	O
ATOM	8051	N	LYS	844	43.297	54.355	24.514	1.00	0.00	N
ATOM	8052	HN	LYS	844	43.675	54.937	25.262	1.00	0.00	H
ATOM	8053	CA	LYS	844	41.915	54.481	24.155	1.00	0.00	C
ATOM	8054	CB	LYS	844	41.132	55.443	25.067	1.00	0.00	C
ATOM	8055	CG	LYS	844	41.581	56.902	24.993	1.00	0.00	C
ATOM	8056	CD	LYS	844	40.636	57.854	25.729	1.00	0.00	C
ATOM	8057	CE	LYS	844	41.037	59.325	25.624	1.00	0.00	C
ATOM	8058	NZ	LYS	844	40.611	59.864	24.314	1.00	0.00	N
ATOM	8059	HZ1	LYS	844	40.879	60.846	24.244	1.00	0.00	H
ATOM	8060	HZ2	LYS	844	39.615	59.724	24.146	1.00	0.00	H
ATOM	8061	HZ3	LYS	844	40.970	59.311	23.536	1.00	0.00	H
ATOM	8062	C	LYS	844	41.815	54.953	22.747	1.00	0.00	C
ATOM	8063	O	LYS	844	40.804	54.708	22.097	1.00	0.00	O

ATOM	8064	N	ALA	845	42.832	55.673	22.239	1.00	0.00	N
ATOM	8065	HN	ALA	845	43.643	55.903	22.813	1.00	0.00	H
ATOM	8066	CA	ALA	845	42.753	56.111	20.873	1.00	0.00	C
ATOM	8067	CB	ALA	845	44.073	56.736	20.407	1.00	0.00	C
ATOM	8068	C	ALA	845	42.598	54.865	20.064	1.00	0.00	C
ATOM	8069	O	ALA	845	41.662	54.713	19.281	1.00	0.00	O
ATOM	8070	N	HIS	846	43.451	53.878	20.364	1.00	0.00	N
ATOM	8071	HN	HIS	846	44.121	54.022	21.119	1.00	0.00	H
ATOM	8072	CA	HIS	846	43.460	52.630	19.668	1.00	0.00	C
ATOM	8073	ND1	HIS	846	43.208	49.407	20.313	1.00	0.00	N
ATOM	8074	HD1	HIS	846	42.437	49.674	20.925	1.00	0.00	H
ATOM	8075	CG	HIS	846	44.252	50.208	19.914	1.00	0.00	C
ATOM	8076	CB	HIS	846	44.407	51.632	20.363	1.00	0.00	C
ATOM	8077	NE2	HIS	846	44.493	48.160	18.998	1.00	0.00	N
ATOM	8078	HE2	HIS	846	44.860	47.373	18.464	1.00	0.00	H
ATOM	8079	CD2	HIS	846	45.031	49.430	19.109	1.00	0.00	C
ATOM	8080	CE1	HIS	846	43.399	48.193	19.737	1.00	0.00	C
ATOM	8081	C	HIS	846	42.091	52.036	19.731	1.00	0.00	C
ATOM	8082	O	HIS	846	41.541	51.612	18.716	1.00	0.00	O
ATOM	8083	N	ILE	847	41.481	52.026	20.925	1.00	0.00	N
ATOM	8084	HN	ILE	847	41.903	52.499	21.724	1.00	0.00	H
ATOM	8085	CA	ILE	847	40.230	51.343	21.064	1.00	0.00	C
ATOM	8086	CB	ILE	847	39.745	51.276	22.490	1.00	0.00	C
ATOM	8087	CG1	ILE	847	38.704	50.157	22.668	1.00	0.00	C
ATOM	8088	CG2	ILE	847	39.194	52.650	22.889	1.00	0.00	C
ATOM	8089	CD1	ILE	847	37.383	50.411	21.947	1.00	0.00	C
ATOM	8090	C	ILE	847	39.171	51.969	20.197	1.00	0.00	C
ATOM	8091	O	ILE	847	38.413	51.255	19.543	1.00	0.00	O
ATOM	8092	N	PHE	848	39.097	53.312	20.128	1.00	0.00	N
ATOM	8093	HN	PHE	848	39.783	53.887	20.617	1.00	0.00	H
ATOM	8094	CA	PHE	848	38.048	53.935	19.363	1.00	0.00	C
ATOM	8095	CB	PHE	848	38.060	55.475	19.420	1.00	0.00	C
ATOM	8096	CG	PHE	848	37.557	55.884	20.769	1.00	0.00	C
ATOM	8097	CD1	PHE	848	38.404	55.971	21.846	1.00	0.00	C
ATOM	8098	CD2	PHE	848	36.229	56.185	20.966	1.00	0.00	C
ATOM	8099	CE1	PHE	848	37.957	56.344	23.091	1.00	0.00	C
ATOM	8100	CE2	PHE	848	35.770	56.560	22.208	1.00	0.00	C
ATOM	8101	CZ	PHE	848	36.631	56.641	23.276	1.00	0.00	C
ATOM	8102	C	PHE	848	38.171	53.481	17.957	1.00	0.00	C
ATOM	8103	O	PHE	848	37.170	53.243	17.280	1.00	0.00	O
ATOM	8104	N	GLY	849	39.411	53.357	17.469	1.00	0.00	N
ATOM	8105	HN	GLY	849	40.230	53.554	18.045	1.00	0.00	H
ATOM	8106	CA	GLY	849	39.542	52.938	16.112	1.00	0.00	C
ATOM	8107	C	GLY	849	38.988	51.552	15.917	1.00	0.00	C
ATOM	8108	O	GLY	849	38.126	51.352	15.065	1.00	0.00	O
ATOM	8109	N	ILE	850	39.391	50.573	16.754	1.00	0.00	N
ATOM	8110	HN	ILE	850	39.965	50.804	17.565	1.00	0.00	H
ATOM	8111	CA	ILE	850	39.016	49.205	16.510	1.00	0.00	C
ATOM	8112	CB	ILE	850	39.556	48.256	17.547	1.00	0.00	C
ATOM	8113	CG1	ILE	850	39.272	46.800	17.141	1.00	0.00	C
ATOM	8114	CG2	ILE	850	38.994	48.650	18.920	1.00	0.00	C
ATOM	8115	CD1	ILE	850	40.009	45.769	17.996	1.00	0.00	C
ATOM	8116	C	ILE	850	37.527	49.104	16.490	1.00	0.00	C
ATOM	8117	O	ILE	850	36.954	48.458	15.613	1.00	0.00	O
ATOM	8118	N	THR	851	36.851	49.774	17.433	1.00	0.00	N
ATOM	8119	HN	THR	851	37.345	50.346	18.118	1.00	0.00	H
ATOM	8120	CA	THR	851	35.422	49.674	17.463	1.00	0.00	C
ATOM	8121	CB	THR	851	34.828	50.454	18.593	1.00	0.00	C
ATOM	8122	OG1	THR	851	35.221	51.815	18.491	1.00	0.00	O
ATOM	8123	HG1	THR	851	34.844	52.310	19.209	1.00	0.00	H
ATOM	8124	CG2	THR	851	35.315	49.855	19.921	1.00	0.00	C
ATOM	8125	C	THR	851	34.815	50.198	16.193	1.00	0.00	C
ATOM	8126	O	THR	851	34.107	49.473	15.499	1.00	0.00	O
ATOM	8127	N	PHE	852	35.162	51.438	15.803	1.00	0.00	N
ATOM	8128	HN	PHE	852	35.876	51.937	16.334	1.00	0.00	H
ATOM	8129	CA	PHE	852	34.565	52.090	14.664	1.00	0.00	C
ATOM	8130	CB	PHE	852	35.267	53.433	14.378	1.00	0.00	C
ATOM	8131	CG	PHE	852	34.842	53.996	13.065	1.00	0.00	C
ATOM	8132	CD1	PHE	852	33.613	54.592	12.918	1.00	0.00	C
ATOM	8133	CD2	PHE	852	35.674	53.914	11.971	1.00	0.00	C
ATOM	8134	CE1	PHE	852	33.229	55.112	11.704	1.00	0.00	C
ATOM	8135	CE2	PHE	852	35.296	54.433	10.754	1.00	0.00	C
ATOM	8136	CZ	PHE	852	34.070	55.037	10.618	1.00	0.00	C
ATOM	8137	C	PHE	852	34.708	51.195	13.471	1.00	0.00	C

ATOM	8138	O	PHE	852	33.738	50.943	12.752	1.00	0.00	O
ATOM	8139	N	SER	853	35.913	50.633	13.287	1.00	0.00	N
ATOM	8140	HN	SER	853	36.647	50.807	13.974	1.00	0.00	H
ATOM	8141	CA	SER	853	36.205	49.798	12.161	1.00	0.00	C
ATOM	8142	CB	SER	853	37.578	49.137	12.285	1.00	0.00	C
ATOM	8143	OG	SER	853	38.556	50.133	12.515	1.00	0.00	O
ATOM	8144	HG	SER	853	39.409	49.722	12.592	1.00	0.00	H
ATOM	8145	C	SER	853	35.240	48.665	12.128	1.00	0.00	C
ATOM	8146	O	SER	853	34.569	48.455	11.122	1.00	0.00	O
ATOM	8147	N	PHE	854	35.084	47.956	13.260	1.00	0.00	N
ATOM	8148	HN	PHE	854	35.548	48.268	14.113	1.00	0.00	H
ATOM	8149	CA	PHE	854	34.277	46.767	13.293	1.00	0.00	C
ATOM	8150	CB	PHE	854	34.108	46.129	14.684	1.00	0.00	C
ATOM	8151	CG	PHE	854	33.232	44.929	14.500	1.00	0.00	C
ATOM	8152	CD1	PHE	854	33.775	43.700	14.200	1.00	0.00	C
ATOM	8153	CD2	PHE	854	31.862	45.033	14.615	1.00	0.00	C
ATOM	8154	CE1	PHE	854	32.970	42.597	14.028	1.00	0.00	C
ATOM	8155	CE2	PHE	854	31.052	43.935	14.443	1.00	0.00	C
ATOM	8156	CZ	PHE	854	31.607	42.712	14.150	1.00	0.00	C
ATOM	8157	C	PHE	854	32.913	47.122	12.816	1.00	0.00	C
ATOM	8158	O	PHE	854	32.221	46.304	12.216	1.00	0.00	O
ATOM	8159	N	THR	855	32.478	48.359	13.086	1.00	0.00	N
ATOM	8160	HN	THR	855	33.066	49.015	13.599	1.00	0.00	H
ATOM	8161	CA	THR	855	31.173	48.745	12.642	1.00	0.00	C
ATOM	8162	CB	THR	855	30.840	50.160	13.015	1.00	0.00	C
ATOM	8163	OG1	THR	855	30.914	50.320	14.424	1.00	0.00	O
ATOM	8164	HG1	THR	855	31.792	50.121	14.727	1.00	0.00	H
ATOM	8165	CG2	THR	855	29.421	50.482	12.526	1.00	0.00	C
ATOM	8166	C	THR	855	31.115	48.651	11.145	1.00	0.00	C
ATOM	8167	O	THR	855	30.161	48.117	10.583	1.00	0.00	O
ATOM	8168	N	GLN	856	32.146	49.173	10.462	1.00	0.00	N
ATOM	8169	HN	GLN	856	32.924	49.569	10.989	1.00	0.00	H
ATOM	8170	CA	GLN	856	32.209	49.202	9.028	1.00	0.00	C
ATOM	8171	CB	GLN	856	33.361	50.086	8.538	1.00	0.00	C
ATOM	8172	CG	GLN	856	33.386	51.469	9.206	1.00	0.00	C
ATOM	8173	CD	GLN	856	31.987	52.075	9.215	1.00	0.00	C
ATOM	8174	OE1	GLN	856	31.073	51.558	9.856	1.00	0.00	O
ATOM	8175	NE2	GLN	856	31.821	53.220	8.500	1.00	0.00	N
ATOM	8176	1HE2	GLN	856	32.579	53.649	7.969	1.00	0.00	H
ATOM	8177	2HE2	GLN	856	30.885	53.625	8.506	1.00	0.00	H
ATOM	8178	C	GLN	856	32.384	47.809	8.485	1.00	0.00	C
ATOM	8179	O	GLN	856	31.904	47.494	7.396	1.00	0.00	O
ATOM	8180	N	ALA	857	33.102	46.938	9.221	1.00	0.00	N
ATOM	8181	HN	ALA	857	33.519	47.250	10.098	1.00	0.00	H
ATOM	8182	CA	ALA	857	33.292	45.579	8.797	1.00	0.00	C
ATOM	8183	CB	ALA	857	33.980	44.697	9.850	1.00	0.00	C
ATOM	8184	C	ALA	857	31.931	45.013	8.701	1.00	0.00	C
ATOM	8185	O	ALA	857	31.613	44.254	7.790	1.00	0.00	O
ATOM	8186	N	MET	858	31.080	45.413	9.650	1.00	0.00	N
ATOM	8187	HN	MET	858	31.384	46.084	10.355	1.00	0.00	H
ATOM	8188	CA	MET	858	29.753	44.907	9.681	1.00	0.00	C
ATOM	8189	CB	MET	858	28.901	45.536	10.796	1.00	0.00	C
ATOM	8190	CG	MET	858	27.579	44.805	11.010	1.00	0.00	C
ATOM	8191	SD	MET	858	27.732	43.177	11.807	1.00	0.00	S
ATOM	8192	CE	MET	858	27.808	43.810	13.508	1.00	0.00	C
ATOM	8193	C	MET	858	29.156	45.288	8.373	1.00	0.00	C
ATOM	8194	O	MET	858	28.375	44.531	7.802	1.00	0.00	O
ATOM	8195	N	MET	859	29.553	46.459	7.840	1.00	0.00	N
ATOM	8196	HN	MET	859	30.262	47.024	8.306	1.00	0.00	H
ATOM	8197	CA	MET	859	28.967	46.901	6.610	1.00	0.00	C
ATOM	8198	CB	MET	859	29.642	48.119	5.975	1.00	0.00	C
ATOM	8199	CG	MET	859	29.601	49.415	6.764	1.00	0.00	C
ATOM	8200	SD	MET	859	30.337	50.784	5.826	1.00	0.00	S
ATOM	8201	CE	MET	859	31.972	50.024	5.637	1.00	0.00	C
ATOM	8202	C	MET	859	29.143	45.868	5.543	1.00	0.00	C
ATOM	8203	O	MET	859	28.158	45.386	4.987	1.00	0.00	O
ATOM	8204	N	TYR	860	30.396	45.463	5.256	1.00	0.00	N
ATOM	8205	HN	TYR	860	31.189	45.789	5.808	1.00	0.00	H
ATOM	8206	CA	TYR	860	30.587	44.564	4.158	1.00	0.00	C
ATOM	8207	CB	TYR	860	32.045	44.409	3.689	1.00	0.00	C
ATOM	8208	CG	TYR	860	32.808	43.494	4.575	1.00	0.00	C
ATOM	8209	CD1	TYR	860	33.393	43.933	5.739	1.00	0.00	C
ATOM	8210	CD2	TYR	860	32.953	42.177	4.205	1.00	0.00	C
ATOM	8211	CE1	TYR	860	34.106	43.062	6.528	1.00	0.00	C

ATOM	8212	CE2	TYR	860	33.664	41.302	4.988	1.00	0.00	C
ATOM	8213	CZ	TYR	860	34.242	41.746	6.152	1.00	0.00	C
ATOM	8214	OH	TYR	860	34.975	40.850	6.957	1.00	0.00	O
ATOM	8215	HH	TYR	860	35.375	41.157	7.762	1.00	0.00	H
ATOM	8216	C	TYR	860	30.027	43.220	4.490	1.00	0.00	C
ATOM	8217	O	TYR	860	29.369	42.613	3.645	1.00	0.00	O
ATOM	8218	N	PHE	861	30.236	42.743	5.739	1.00	0.00	N
ATOM	8219	HN	PHE	861	30.731	43.322	6.418	1.00	0.00	H
ATOM	8220	CA	PHE	861	29.775	41.436	6.131	1.00	0.00	C
ATOM	8221	CB	PHE	861	29.797	41.163	7.652	1.00	0.00	C
ATOM	8222	CG	PHE	861	31.126	40.759	8.192	1.00	0.00	C
ATOM	8223	CD1	PHE	861	32.055	41.682	8.607	1.00	0.00	C
ATOM	8224	CD2	PHE	861	31.423	39.421	8.316	1.00	0.00	C
ATOM	8225	CE1	PHE	861	33.266	41.278	9.115	1.00	0.00	C
ATOM	8226	CE2	PHE	861	32.631	39.006	8.823	1.00	0.00	C
ATOM	8227	CZ	PHE	861	33.557	39.939	9.222	1.00	0.00	C
ATOM	8228	C	PHE	861	28.322	41.376	5.829	1.00	0.00	C
ATOM	8229	O	PHE	861	27.858	40.459	5.155	1.00	0.00	O
ATOM	8230	N	SER	862	27.581	42.399	6.285	1.00	0.00	N
ATOM	8231	HN	SER	862	28.035	43.185	6.750	1.00	0.00	H
ATOM	8232	CA	SER	862	26.165	42.395	6.124	1.00	0.00	C
ATOM	8233	CB	SER	862	25.510	43.689	6.639	1.00	0.00	C
ATOM	8234	OG	SER	862	25.713	43.819	8.039	1.00	0.00	O
ATOM	8235	HG	SER	862	25.309	44.618	8.357	1.00	0.00	H
ATOM	8236	C	SER	862	25.835	42.261	4.671	1.00	0.00	C
ATOM	8237	O	SER	862	25.255	41.262	4.256	1.00	0.00	O
ATOM	8238	N	TYR	863	26.276	43.215	3.833	1.00	0.00	N
ATOM	8239	HN	TYR	863	26.912	43.938	4.169	1.00	0.00	H
ATOM	8240	CA	TYR	863	25.847	43.211	2.462	1.00	0.00	C
ATOM	8241	CB	TYR	863	26.486	44.336	1.625	1.00	0.00	C
ATOM	8242	CG	TYR	863	25.797	45.627	1.909	1.00	0.00	C
ATOM	8243	CD1	TYR	863	25.990	46.306	3.090	1.00	0.00	C
ATOM	8244	CD2	TYR	863	24.966	46.173	0.957	1.00	0.00	C
ATOM	8245	CE1	TYR	863	25.343	47.498	3.321	1.00	0.00	C
ATOM	8246	CE2	TYR	863	24.318	47.363	1.182	1.00	0.00	C
ATOM	8247	CZ	TYR	863	24.504	48.027	2.368	1.00	0.00	C
ATOM	8248	OH	TYR	863	23.840	49.250	2.602	1.00	0.00	O
ATOM	8249	HH	TYR	863	23.969	49.710	3.423	1.00	0.00	H
ATOM	8250	C	TYR	863	26.193	41.931	1.768	1.00	0.00	C
ATOM	8251	O	TYR	863	25.316	41.298	1.182	1.00	0.00	O
ATOM	8252	N	ALA	864	27.457	41.481	1.864	1.00	0.00	N
ATOM	8253	HN	ALA	864	28.117	41.941	2.492	1.00	0.00	H
ATOM	8254	CA	ALA	864	27.875	40.355	1.083	1.00	0.00	C
ATOM	8255	CB	ALA	864	29.327	39.964	1.345	1.00	0.00	C
ATOM	8256	C	ALA	864	27.078	39.144	1.412	1.00	0.00	C
ATOM	8257	O	ALA	864	26.537	38.493	0.520	1.00	0.00	O
ATOM	8258	N	GLY	865	26.936	38.838	2.711	1.00	0.00	N
ATOM	8259	HN	GLY	865	27.298	39.463	3.431	1.00	0.00	H
ATOM	8260	CA	GLY	865	26.270	37.625	3.072	1.00	0.00	C
ATOM	8261	C	GLY	865	24.884	37.692	2.536	1.00	0.00	C
ATOM	8262	O	GLY	865	24.373	36.713	1.993	1.00	0.00	O
ATOM	8263	N	CYS	866	24.249	38.871	2.651	1.00	0.00	N
ATOM	8264	HN	CYS	866	24.733	39.683	3.033	1.00	0.00	H
ATOM	8265	CA	CYS	866	22.888	38.972	2.232	1.00	0.00	C
ATOM	8266	CB	CYS	866	22.282	40.359	2.495	1.00	0.00	C
ATOM	8267	SG	CYS	866	22.125	40.723	4.270	1.00	0.00	S
ATOM	8268	C	CYS	866	22.742	38.673	0.772	1.00	0.00	C
ATOM	8269	O	CYS	866	22.067	37.721	0.390	1.00	0.00	O
ATOM	8270	N	PHE	867	23.439	39.424	-0.093	1.00	0.00	N
ATOM	8271	HN	PHE	867	24.104	40.118	0.249	1.00	0.00	H
ATOM	8272	CA	PHE	867	23.243	39.244	-1.500	1.00	0.00	C
ATOM	8273	CB	PHE	867	23.997	40.277	-2.350	1.00	0.00	C
ATOM	8274	CG	PHE	867	23.232	41.548	-2.190	1.00	0.00	C
ATOM	8275	CD1	PHE	867	22.153	41.805	-3.003	1.00	0.00	C
ATOM	8276	CD2	PHE	867	23.574	42.471	-1.228	1.00	0.00	C
ATOM	8277	CE1	PHE	867	21.431	42.966	-2.872	1.00	0.00	C
ATOM	8278	CE2	PHE	867	22.853	43.636	-1.092	1.00	0.00	C
ATOM	8279	CZ	PHE	867	21.780	43.886	-1.914	1.00	0.00	C
ATOM	8280	C	PHE	867	23.646	37.862	-1.884	1.00	0.00	C
ATOM	8281	O	PHE	867	23.008	37.248	-2.738	1.00	0.00	O
ATOM	8282	N	ARG	868	24.732	37.327	-1.300	1.00	0.00	N
ATOM	8283	HN	ARG	868	25.276	37.815	-0.588	1.00	0.00	H
ATOM	8284	CA	ARG	868	25.059	36.015	-1.762	1.00	0.00	C
ATOM	8285	CB	ARG	868	26.448	35.481	-1.382	1.00	0.00	C



ATOM	8286	CG	ARG	868	26.695	35.214	0.093	1.00	0.00	C
ATOM	8287	CD	ARG	868	27.838	34.218	0.278	1.00	0.00	C
ATOM	8288	NE	ARG	868	27.413	32.953	-0.385	1.00	0.00	N
ATOM	8289	HE	ARG	868	27.623	32.803	-1.372	1.00	0.00	H
ATOM	8290	CZ	ARG	868	26.744	31.994	0.320	1.00	0.00	C
ATOM	8291	NH1	ARG	868	26.458	32.189	1.640	1.00	0.00	N
ATOM	8292	1HH1	ARG	868	26.740	33.053	2.103	1.00	0.00	H
ATOM	8293	2HH1	ARG	868	25.958	31.473	2.167	1.00	0.00	H
ATOM	8294	NH2	ARG	868	26.367	30.838	-0.300	1.00	0.00	N
ATOM	8295	1HH2	ARG	868	26.581	30.692	-1.287	1.00	0.00	H
ATOM	8296	2HH2	ARG	868	25.867	30.122	0.227	1.00	0.00	H
ATOM	8297	C	ARG	868	24.029	35.017	-1.321	1.00	0.00	C
ATOM	8298	O	ARG	868	23.576	34.193	-2.114	1.00	0.00	O
ATOM	8299	N	PHE	869	23.590	35.089	-0.051	1.00	0.00	N
ATOM	8300	HN	PHE	869	23.913	35.848	0.549	1.00	0.00	H
ATOM	8301	CA	PHE	869	22.675	34.116	0.474	1.00	0.00	C
ATOM	8302	CB	PHE	869	22.338	34.384	1.951	1.00	0.00	C
ATOM	8303	CG	PHE	869	21.605	33.198	2.466	1.00	0.00	C
ATOM	8304	CD1	PHE	869	20.238	33.110	2.347	1.00	0.00	C
ATOM	8305	CD2	PHE	869	22.293	32.169	3.065	1.00	0.00	C
ATOM	8306	CE1	PHE	869	19.568	32.009	2.823	1.00	0.00	C
ATOM	8307	CE2	PHE	869	21.629	31.065	3.544	1.00	0.00	C
ATOM	8308	CZ	PHE	869	20.263	30.986	3.423	1.00	0.00	C
ATOM	8309	C	PHE	869	21.414	34.180	-0.321	1.00	0.00	C
ATOM	8310	O	PHE	869	20.888	33.149	-0.738	1.00	0.00	O
ATOM	8311	N	GLY	870	20.912	35.402	-0.585	1.00	0.00	N
ATOM	8312	HN	GLY	870	21.417	36.236	-0.286	1.00	0.00	H
ATOM	8313	CA	GLY	870	19.669	35.530	-1.286	1.00	0.00	C
ATOM	8314	C	GLY	870	19.779	34.876	-2.626	1.00	0.00	C
ATOM	8315	O	GLY	870	18.972	34.018	-2.973	1.00	0.00	O
ATOM	8316	N	ALA	871	20.858	35.166	-3.363	1.00	0.00	N
ATOM	8317	HN	ALA	871	21.597	35.728	-2.941	1.00	0.00	H
ATOM	8318	CA	ALA	871	21.026	34.726	-4.716	1.00	0.00	C
ATOM	8319	CB	ALA	871	22.404	35.087	-5.295	1.00	0.00	C
ATOM	8320	C	ALA	871	20.910	33.248	-4.746	1.00	0.00	C
ATOM	8321	O	ALA	871	20.464	32.699	-5.752	1.00	0.00	O
ATOM	8322	N	TYR	872	21.305	32.594	-3.635	1.00	0.00	N
ATOM	8323	HN	TYR	872	21.557	33.155	-2.822	1.00	0.00	H
ATOM	8324	CA	TYR	872	21.397	31.166	-3.511	1.00	0.00	C
ATOM	8325	CB	TYR	872	21.404	30.644	-2.064	1.00	0.00	C
ATOM	8326	CG	TYR	872	21.684	29.187	-2.196	1.00	0.00	C
ATOM	8327	CD1	TYR	872	22.961	28.749	-2.467	1.00	0.00	C
ATOM	8328	CD2	TYR	872	20.678	28.261	-2.056	1.00	0.00	C
ATOM	8329	CE1	TYR	872	23.234	27.406	-2.599	1.00	0.00	C
ATOM	8330	CE2	TYR	872	20.944	26.917	-2.187	1.00	0.00	C
ATOM	8331	CZ	TYR	872	22.221	26.488	-2.460	1.00	0.00	C
ATOM	8332	OH	TYR	872	22.492	25.110	-2.596	1.00	0.00	O
ATOM	8333	HH	TYR	872	21.792	24.475	-2.500	1.00	0.00	H
ATOM	8334	C	TYR	872	20.339	30.430	-4.294	1.00	0.00	C
ATOM	8335	O	TYR	872	19.161	30.773	-4.263	1.00	0.00	O
ATOM	8336	N	LEU	873	20.791	29.363	-4.991	1.00	0.00	N
ATOM	8337	HN	LEU	873	21.796	29.209	-4.909	1.00	0.00	H
ATOM	8338	CA	LEU	873	20.111	28.396	-5.834	1.00	0.00	C
ATOM	8339	CB	LEU	873	19.168	27.485	-5.011	1.00	0.00	C
ATOM	8340	CG	LEU	873	18.718	26.143	-5.651	1.00	0.00	C
ATOM	8341	CD1	LEU	873	17.749	25.410	-4.710	1.00	0.00	C
ATOM	8342	CD2	LEU	873	18.153	26.257	-7.076	1.00	0.00	C
ATOM	8343	C	LEU	873	19.346	28.933	-7.026	1.00	0.00	C
ATOM	8344	O	LEU	873	18.119	28.996	-7.020	1.00	0.00	O
ATOM	8345	N	VAL	874	20.080	29.405	-8.053	1.00	0.00	N
ATOM	8346	HN	VAL	874	21.083	29.486	-7.884	1.00	0.00	H
ATOM	8347	CA	VAL	874	19.626	29.811	-9.362	1.00	0.00	C
ATOM	8348	CB	VAL	874	20.418	30.929	-9.955	1.00	0.00	C
ATOM	8349	CG1	VAL	874	20.362	32.127	-8.991	1.00	0.00	C
ATOM	8350	CG2	VAL	874	21.817	30.409	-10.282	1.00	0.00	C
ATOM	8351	C	VAL	874	19.603	28.674	-10.366	1.00	0.00	C
ATOM	8352	O	VAL	874	19.528	28.940	-11.566	1.00	0.00	O
ATOM	8353	N	ALA	875	19.852	27.409	-9.959	1.00	0.00	N
ATOM	8354	HN	ALA	875	19.973	27.209	-8.966	1.00	0.00	H
ATOM	8355	CA	ALA	875	19.947	26.338	-10.929	1.00	0.00	C
ATOM	8356	CB	ALA	875	20.424	25.007	-10.322	1.00	0.00	C
ATOM	8357	C	ALA	875	18.634	26.060	-11.629	1.00	0.00	C
ATOM	8358	O	ALA	875	17.717	25.459	-11.079	1.00	0.00	O
ATOM	8359	N	HIS	876	18.580	26.414	-12.928	1.00	0.00	N

ATOM	8360	HN	HIS	876	19.425	26.847	-13.301	1.00	0.00	H
ATOM	8361	CA	HIS	876	17.492	26.265	-13.866	1.00	0.00	C
ATOM	8362	ND1	HIS	876	14.768	24.040	-13.803	1.00	0.00	N
ATOM	8363	HD1	HIS	876	14.351	24.458	-14.635	1.00	0.00	H
ATOM	8364	CG	HIS	876	16.094	24.104	-13.429	1.00	0.00	C
ATOM	8365	CB	HIS	876	17.150	24.799	-14.238	1.00	0.00	C
ATOM	8366	NE2	HIS	876	14.942	22.909	-11.899	1.00	0.00	N
ATOM	8367	HE2	HIS	876	14.710	22.352	-11.076	1.00	0.00	H
ATOM	8368	CD2	HIS	876	16.180	23.406	-12.262	1.00	0.00	C
ATOM	8369	CE1	HIS	876	14.125	23.316	-12.856	1.00	0.00	C
ATOM	8370	C	HIS	876	16.247	27.020	-13.476	1.00	0.00	C
ATOM	8371	O	HIS	876	15.148	26.673	-13.905	1.00	0.00	O
ATOM	8372	N	LYS	877	16.401	28.131	-12.727	1.00	0.00	N
ATOM	8373	HN	LYS	877	17.344	28.374	-12.423	1.00	0.00	H
ATOM	8374	CA	LYS	877	15.318	29.000	-12.327	1.00	0.00	C
ATOM	8375	CB	LYS	877	14.218	29.195	-13.377	1.00	0.00	C
ATOM	8376	CG	LYS	877	13.116	30.120	-12.861	1.00	0.00	C
ATOM	8377	CD	LYS	877	11.994	30.354	-13.863	1.00	0.00	C
ATOM	8378	CE	LYS	877	10.986	29.201	-13.883	1.00	0.00	C
ATOM	8379	NZ	LYS	877	10.910	28.618	-15.240	1.00	0.00	N
ATOM	8380	HZ1	LYS	877	10.239	27.850	-15.253	1.00	0.00	H
ATOM	8381	HZ2	LYS	877	11.826	28.331	-15.584	1.00	0.00	H
ATOM	8382	HZ3	LYS	877	10.699	29.322	-15.947	1.00	0.00	H
ATOM	8383	C	LYS	877	14.601	28.457	-11.127	1.00	0.00	C
ATOM	8384	O	LYS	877	13.727	27.599	-11.247	1.00	0.00	O
ATOM	8385	N	LEU	878	14.905	29.027	-9.944	1.00	0.00	N
ATOM	8386	HN	LEU	878	15.573	29.797	-9.947	1.00	0.00	H
ATOM	8387	CA	LEU	878	14.355	28.627	-8.680	1.00	0.00	C
ATOM	8388	CB	LEU	878	15.458	27.939	-7.826	1.00	0.00	C
ATOM	8389	CG	LEU	878	15.133	27.415	-6.406	1.00	0.00	C
ATOM	8390	CD1	LEU	878	15.347	28.470	-5.303	1.00	0.00	C
ATOM	8391	CD2	LEU	878	13.734	26.779	-6.369	1.00	0.00	C
ATOM	8392	C	LEU	878	13.799	29.867	-8.024	1.00	0.00	C
ATOM	8393	O	LEU	878	13.839	30.955	-8.593	1.00	0.00	O
ATOM	8394	N	MET	879	13.335	29.741	-6.768	1.00	0.00	N
ATOM	8395	HN	MET	879	13.473	28.837	-6.317	1.00	0.00	H
ATOM	8396	CA	MET	879	12.666	30.749	-5.999	1.00	0.00	C
ATOM	8397	CB	MET	879	12.254	30.258	-4.594	1.00	0.00	C
ATOM	8398	CG	MET	879	13.390	30.106	-3.582	1.00	0.00	C
ATOM	8399	SD	MET	879	13.912	31.667	-2.817	1.00	0.00	S
ATOM	8400	CE	MET	879	12.370	31.819	-1.870	1.00	0.00	C
ATOM	8401	C	MET	879	13.563	31.946	-5.894	1.00	0.00	C
ATOM	8402	O	MET	879	13.123	33.013	-5.470	1.00	0.00	O
ATOM	8403	N	SER	880	14.869	31.782	-6.178	1.00	0.00	N
ATOM	8404	HN	SER	880	15.223	30.853	-6.407	1.00	0.00	H
ATOM	8405	CA	SER	880	15.771	32.906	-6.161	1.00	0.00	C
ATOM	8406	CB	SER	880	17.244	32.494	-6.029	1.00	0.00	C
ATOM	8407	OG	SER	880	17.622	31.726	-7.162	1.00	0.00	O
ATOM	8408	HG	SER	880	18.533	31.471	-7.080	1.00	0.00	H
ATOM	8409	C	SER	880	15.672	33.692	-7.443	1.00	0.00	C
ATOM	8410	O	SER	880	15.940	33.168	-8.524	1.00	0.00	O
ATOM	8411	N	PHE	881	15.318	35.000	-7.334	1.00	0.00	N
ATOM	8412	HN	PHE	881	15.137	35.381	-6.405	1.00	0.00	H
ATOM	8413	CA	PHE	881	15.187	35.872	-8.473	1.00	0.00	C
ATOM	8414	CB	PHE	881	13.938	35.568	-9.331	1.00	0.00	C
ATOM	8415	CG	PHE	881	12.674	35.827	-8.578	1.00	0.00	C
ATOM	8416	CD1	PHE	881	12.330	35.065	-7.487	1.00	0.00	C
ATOM	8417	CD2	PHE	881	11.831	36.850	-8.947	1.00	0.00	C
ATOM	8418	CE1	PHE	881	11.166	35.310	-6.796	1.00	0.00	C
ATOM	8419	CE2	PHE	881	10.667	37.104	-8.265	1.00	0.00	C
ATOM	8420	CZ	PHE	881	10.330	36.329	-7.184	1.00	0.00	C
ATOM	8421	C	PHE	881	15.157	37.309	-7.992	1.00	0.00	C
ATOM	8422	O	PHE	881	15.876	37.691	-7.070	1.00	0.00	O
ATOM	8423	N	GLU	882	14.301	38.139	-8.619	1.00	0.00	N
ATOM	8424	HN	GLU	882	13.680	37.714	-9.307	1.00	0.00	H
ATOM	8425	CA	GLU	882	14.165	39.563	-8.426	1.00	0.00	C
ATOM	8426	CB	GLU	882	13.045	40.152	-9.309	1.00	0.00	C
ATOM	8427	CG	GLU	882	13.053	41.681	-9.416	1.00	0.00	C
ATOM	8428	CD	GLU	882	12.511	42.313	-8.136	1.00	0.00	C
ATOM	8429	OE1	GLU	882	11.720	41.644	-7.419	1.00	0.00	O
ATOM	8430	OE2	GLU	882	12.894	43.478	-7.853	1.00	0.00	O
ATOM	8431	C	GLU	882	13.847	39.964	-7.004	1.00	0.00	C
ATOM	8432	O	GLU	882	14.346	40.988	-6.542	1.00	0.00	O
ATOM	8433	N	ASP	883	13.072	39.165	-6.250	1.00	0.00	N

ATOM	8434	HN	ASP	883	12.843	38.243	-6.622	1.00	0.00	H
ATOM	8435	CA	ASP	883	12.539	39.513	-4.952	1.00	0.00	C
ATOM	8436	CB	ASP	883	11.888	38.308	-4.249	1.00	0.00	C
ATOM	8437	CG	ASP	883	12.927	37.204	-4.097	1.00	0.00	C
ATOM	8438	OD1	ASP	883	13.607	36.877	-5.106	1.00	0.00	O
ATOM	8439	OD2	ASP	883	13.041	36.654	-2.969	1.00	0.00	O
ATOM	8440	C	ASP	883	13.602	40.086	-4.058	1.00	0.00	C
ATOM	8441	O	ASP	883	13.294	40.850	-3.143	1.00	0.00	O
ATOM	8442	N	VAL	884	14.880	39.770	-4.315	1.00	0.00	N
ATOM	8443	HN	VAL	884	15.084	39.138	-5.089	1.00	0.00	H
ATOM	8444	CA	VAL	884	15.971	40.289	-3.540	1.00	0.00	C
ATOM	8445	CB	VAL	884	17.301	39.966	-4.154	1.00	0.00	C
ATOM	8446	CG1	VAL	884	17.480	38.439	-4.124	1.00	0.00	C
ATOM	8447	CG2	VAL	884	17.357	40.560	-5.573	1.00	0.00	C
ATOM	8448	C	VAL	884	15.843	41.790	-3.455	1.00	0.00	C
ATOM	8449	O	VAL	884	16.334	42.405	-2.509	1.00	0.00	O
ATOM	8450	N	LEU	885	15.200	42.435	-4.445	1.00	0.00	N
ATOM	8451	HN	LEU	885	14.834	41.908	-5.238	1.00	0.00	H
ATOM	8452	CA	LEU	885	15.024	43.864	-4.395	1.00	0.00	C
ATOM	8453	CB	LEU	885	14.323	44.431	-5.640	1.00	0.00	C
ATOM	8454	CG	LEU	885	15.246	44.525	-6.868	1.00	0.00	C
ATOM	8455	CD1	LEU	885	16.300	45.626	-6.674	1.00	0.00	C
ATOM	8456	CD2	LEU	885	15.879	43.167	-7.208	1.00	0.00	C
ATOM	8457	C	LEU	885	14.212	44.252	-3.192	1.00	0.00	C
ATOM	8458	O	LEU	885	14.454	45.297	-2.588	1.00	0.00	O
ATOM	8459	N	LEU	886	13.194	43.451	-2.833	1.00	0.00	N
ATOM	8460	HN	LEU	886	12.967	42.637	-3.404	1.00	0.00	H
ATOM	8461	CA	LEU	886	12.423	43.730	-1.655	1.00	0.00	C
ATOM	8462	CB	LEU	886	11.158	42.864	-1.554	1.00	0.00	C
ATOM	8463	CG	LEU	886	10.099	43.247	-2.605	1.00	0.00	C
ATOM	8464	CD1	LEU	886	10.639	43.076	-4.034	1.00	0.00	C
ATOM	8465	CD2	LEU	886	8.777	42.495	-2.374	1.00	0.00	C
ATOM	8466	C	LEU	886	13.317	43.518	-0.473	1.00	0.00	C
ATOM	8467	O	LEU	886	13.137	44.112	0.588	1.00	0.00	O
ATOM	8468	N	VAL	887	14.312	42.629	-0.605	1.00	0.00	N
ATOM	8469	HN	VAL	887	14.425	42.094	-1.466	1.00	0.00	H
ATOM	8470	CA	VAL	887	15.214	42.450	0.497	1.00	0.00	C
ATOM	8471	CB	VAL	887	16.293	41.450	0.205	1.00	0.00	C
ATOM	8472	CG1	VAL	887	17.283	41.443	1.382	1.00	0.00	C
ATOM	8473	CG2	VAL	887	15.630	40.088	-0.059	1.00	0.00	C
ATOM	8474	C	VAL	887	15.869	43.774	0.770	1.00	0.00	C
ATOM	8475	O	VAL	887	16.012	44.188	1.922	1.00	0.00	O
ATOM	8476	N	PHE	888	16.243	44.506	-0.295	1.00	0.00	N
ATOM	8477	HN	PHE	888	16.079	44.155	-1.239	1.00	0.00	H
ATOM	8478	CA	PHE	888	16.872	45.781	-0.103	1.00	0.00	C
ATOM	8479	CB	PHE	888	17.208	46.522	-1.410	1.00	0.00	C
ATOM	8480	CG	PHE	888	17.767	47.849	-1.014	1.00	0.00	C
ATOM	8481	CD1	PHE	888	19.114	48.008	-0.782	1.00	0.00	C
ATOM	8482	CD2	PHE	888	16.934	48.934	-0.861	1.00	0.00	C
ATOM	8483	CE1	PHE	888	19.625	49.231	-0.413	1.00	0.00	C
ATOM	8484	CE2	PHE	888	17.438	50.159	-0.492	1.00	0.00	C
ATOM	8485	CZ	PHE	888	18.787	50.310	-0.268	1.00	0.00	C
ATOM	8486	C	PHE	888	15.906	46.623	0.659	1.00	0.00	C
ATOM	8487	O	PHE	888	16.289	47.457	1.478	1.00	0.00	O
ATOM	8488	N	SER	889	14.606	46.423	0.403	1.00	0.00	N
ATOM	8489	HN	SER	889	14.318	45.695	-0.251	1.00	0.00	H
ATOM	8490	CA	SER	889	13.626	47.234	1.049	1.00	0.00	C
ATOM	8491	CB	SER	889	12.198	46.825	0.663	1.00	0.00	C
ATOM	8492	OG	SER	889	11.632	45.928	1.597	1.00	0.00	O
ATOM	8493	HG	SER	889	10.748	45.675	1.358	1.00	0.00	H
ATOM	8494	C	SER	889	13.748	47.117	2.552	1.00	0.00	C
ATOM	8495	O	SER	889	13.693	48.116	3.266	1.00	0.00	O
ATOM	8496	N	ALA	890	13.884	45.889	3.087	1.00	0.00	N
ATOM	8497	HN	ALA	890	13.922	45.085	2.460	1.00	0.00	H
ATOM	8498	CA	ALA	890	13.979	45.661	4.510	1.00	0.00	C
ATOM	8499	CB	ALA	890	13.825	44.174	4.866	1.00	0.00	C
ATOM	8500	C	ALA	890	15.265	46.182	5.097	1.00	0.00	C
ATOM	8501	O	ALA	890	15.290	46.653	6.236	1.00	0.00	O
ATOM	8502	N	VAL	891	16.391	46.053	4.370	1.00	0.00	N
ATOM	8503	HN	VAL	891	16.362	45.623	3.446	1.00	0.00	H
ATOM	8504	CA	VAL	891	17.635	46.529	4.912	1.00	0.00	C
ATOM	8505	CB	VAL	891	18.839	46.169	4.080	1.00	0.00	C
ATOM	8506	CG1	VAL	891	19.015	44.641	4.100	1.00	0.00	C
ATOM	8507	CG2	VAL	891	18.662	46.741	2.664	1.00	0.00	C

ATOM	8508	C	VAL	891	17.556	48.020	5.022	1.00	0.00	C
ATOM	8509	O	VAL	891	17.896	48.602	6.054	1.00	0.00	O
ATOM	8510	N	VAL	892	17.056	48.671	3.955	1.00	0.00	N
ATOM	8511	HN	VAL	892	16.759	48.135	3.140	1.00	0.00	H
ATOM	8512	CA	VAL	892	16.931	50.093	3.935	1.00	0.00	C
ATOM	8513	CB	VAL	892	16.517	50.662	2.598	1.00	0.00	C
ATOM	8514	CG1	VAL	892	15.088	50.232	2.247	1.00	0.00	C
ATOM	8515	CG2	VAL	892	16.706	52.186	2.647	1.00	0.00	C
ATOM	8516	C	VAL	892	15.945	50.466	4.995	1.00	0.00	C
ATOM	8517	O	VAL	892	15.932	51.595	5.486	1.00	0.00	O
ATOM	8518	N	PHE	893	15.049	49.533	5.360	1.00	0.00	N
ATOM	8519	HN	PHE	893	15.034	48.609	4.929	1.00	0.00	H
ATOM	8520	CA	PHE	893	14.116	49.898	6.383	1.00	0.00	C
ATOM	8521	CB	PHE	893	13.047	48.843	6.713	1.00	0.00	C
ATOM	8522	CG	PHE	893	12.180	48.686	5.515	1.00	0.00	C
ATOM	8523	CD1	PHE	893	11.754	49.787	4.810	1.00	0.00	C
ATOM	8524	CD2	PHE	893	11.736	47.444	5.137	1.00	0.00	C
ATOM	8525	CE1	PHE	893	10.946	49.642	3.709	1.00	0.00	C
ATOM	8526	CE2	PHE	893	10.926	47.290	4.039	1.00	0.00	C
ATOM	8527	CZ	PHE	893	10.534	48.390	3.318	1.00	0.00	C
ATOM	8528	C	PHE	893	14.840	50.205	7.660	1.00	0.00	C
ATOM	8529	O	PHE	893	14.637	51.266	8.252	1.00	0.00	O
ATOM	8530	N	GLY	894	15.761	49.317	8.084	1.00	0.00	N
ATOM	8531	HN	GLY	894	15.991	48.512	7.501	1.00	0.00	H
ATOM	8532	CA	GLY	894	16.424	49.490	9.349	1.00	0.00	C
ATOM	8533	C	GLY	894	17.096	50.824	9.333	1.00	0.00	C
ATOM	8534	O	GLY	894	17.074	51.577	10.309	1.00	0.00	O
ATOM	8535	N	ALA	895	17.674	51.171	8.177	1.00	0.00	N
ATOM	8536	HN	ALA	895	17.630	50.538	7.378	1.00	0.00	H
ATOM	8537	CA	ALA	895	18.351	52.420	8.055	1.00	0.00	C
ATOM	8538	CB	ALA	895	18.949	52.639	6.655	1.00	0.00	C
ATOM	8539	C	ALA	895	17.378	53.538	8.304	1.00	0.00	C
ATOM	8540	O	ALA	895	17.731	54.545	8.915	1.00	0.00	O
ATOM	8541	N	MET	896	16.117	53.394	7.851	1.00	0.00	N
ATOM	8542	HN	MET	896	15.826	52.509	7.437	1.00	0.00	H
ATOM	8543	CA	MET	896	15.177	54.482	7.948	1.00	0.00	C
ATOM	8544	CB	MET	896	13.791	54.152	7.353	1.00	0.00	C
ATOM	8545	CG	MET	896	12.873	53.359	8.288	1.00	0.00	C
ATOM	8546	SD	MET	896	11.411	52.618	7.502	1.00	0.00	S
ATOM	8547	CE	MET	896	10.420	54.139	7.461	1.00	0.00	C
ATOM	8548	C	MET	896	14.968	54.883	9.387	1.00	0.00	C
ATOM	8549	O	MET	896	14.993	56.068	9.724	1.00	0.00	O
ATOM	8550	N	ALA	897	14.788	53.898	10.283	1.00	0.00	N
ATOM	8551	HN	ALA	897	14.836	52.932	9.959	1.00	0.00	H
ATOM	8552	CA	ALA	897	14.531	54.142	11.676	1.00	0.00	C
ATOM	8553	CB	ALA	897	14.291	52.845	12.467	1.00	0.00	C
ATOM	8554	C	ALA	897	15.714	54.828	12.272	1.00	0.00	C
ATOM	8555	O	ALA	897	15.583	55.654	13.176	1.00	0.00	O
ATOM	8556	N	VAL	898	16.912	54.492	11.768	1.00	0.00	N
ATOM	8557	HN	VAL	898	16.967	53.838	10.987	1.00	0.00	H
ATOM	8558	CA	VAL	898	18.113	55.045	12.319	1.00	0.00	C
ATOM	8559	CB	VAL	898	19.342	54.665	11.544	1.00	0.00	C
ATOM	8560	CG1	VAL	898	20.546	55.403	12.152	1.00	0.00	C
ATOM	8561	CG2	VAL	898	19.483	53.133	11.542	1.00	0.00	C
ATOM	8562	C	VAL	898	17.997	56.533	12.247	1.00	0.00	C
ATOM	8563	O	VAL	898	18.355	57.250	13.182	1.00	0.00	O
ATOM	8564	N	GLY	899	17.422	57.030	11.142	1.00	0.00	N
ATOM	8565	HN	GLY	899	17.051	56.398	10.432	1.00	0.00	H
ATOM	8566	CA	GLY	899	17.328	58.445	10.958	1.00	0.00	C
ATOM	8567	C	GLY	899	16.572	59.045	12.112	1.00	0.00	C
ATOM	8568	O	GLY	899	16.915	60.126	12.589	1.00	0.00	O
ATOM	8569	N	GLN	900	15.523	58.356	12.598	1.00	0.00	N
ATOM	8570	HN	GLN	900	15.352	57.409	12.258	1.00	0.00	H
ATOM	8571	CA	GLN	900	14.632	58.917	13.586	1.00	0.00	C
ATOM	8572	CB	GLN	900	13.491	57.948	13.941	1.00	0.00	C
ATOM	8573	CG	GLN	900	12.718	57.423	12.731	1.00	0.00	C
ATOM	8574	CD	GLN	900	11.971	58.576	12.086	1.00	0.00	C
ATOM	8575	OE1	GLN	900	11.590	58.498	10.920	1.00	0.00	O
ATOM	8576	NE2	GLN	900	11.752	59.672	12.859	1.00	0.00	N
ATOM	8577	1HE2	GLN	900	11.250	60.447	12.426	1.00	0.00	H
ATOM	8578	2HE2	GLN	900	12.068	59.737	13.827	1.00	0.00	H
ATOM	8579	C	GLN	900	15.303	59.225	14.900	1.00	0.00	C
ATOM	8580	O	GLN	900	15.197	60.338	15.419	1.00	0.00	O
ATOM	8581	N	VAL	901	16.035	58.253	15.474	1.00	0.00	N

ATOM	8582	HN	VAL	901	16.186	57.368	14.990	1.00	0.00	H
ATOM	8583	CA	VAL	901	16.604	58.476	16.780	1.00	0.00	C
ATOM	8584	CB	VAL	901	17.379	57.298	17.277	1.00	0.00	C
ATOM	8585	CG1	VAL	901	18.218	57.767	18.466	1.00	0.00	C
ATOM	8586	CG2	VAL	901	16.393	56.180	17.652	1.00	0.00	C
ATOM	8587	C	VAL	901	17.547	59.615	16.692	1.00	0.00	C
ATOM	8588	O	VAL	901	17.591	60.490	17.560	1.00	0.00	O
ATOM	8589	N	SER	902	18.330	59.604	15.609	1.00	0.00	N
ATOM	8590	HN	SER	902	18.195	58.865	14.919	1.00	0.00	H
ATOM	8591	CA	SER	902	19.344	60.577	15.375	1.00	0.00	C
ATOM	8592	CB	SER	902	20.337	60.124	14.292	1.00	0.00	C
ATOM	8593	OG	SER	902	21.001	58.940	14.709	1.00	0.00	O
ATOM	8594	HG	SER	902	21.615	58.660	14.040	1.00	0.00	H
ATOM	8595	C	SER	902	18.739	61.880	14.917	1.00	0.00	C
ATOM	8596	O	SER	902	19.485	62.799	14.586	1.00	0.00	O
ATOM	8597	N	SER	903	17.395	62.020	14.848	1.00	0.00	N
ATOM	8598	HN	SER	903	16.766	61.286	15.173	1.00	0.00	H
ATOM	8599	CA	SER	903	16.891	63.256	14.293	1.00	0.00	C
ATOM	8600	CB	SER	903	16.425	63.095	12.836	1.00	0.00	C
ATOM	8601	OG	SER	903	15.347	62.174	12.772	1.00	0.00	O
ATOM	8602	HG	SER	903	15.059	62.075	11.872	1.00	0.00	H
ATOM	8603	C	SER	903	15.726	63.792	15.081	1.00	0.00	C
ATOM	8604	O	SER	903	15.338	63.229	16.104	1.00	0.00	O
ATOM	8605	N	PHE	904	15.191	64.961	14.632	1.00	0.00	N
ATOM	8606	HN	PHE	904	15.624	65.412	13.826	1.00	0.00	H
ATOM	8607	CA	PHE	904	14.042	65.597	15.236	1.00	0.00	C
ATOM	8608	CB	PHE	904	12.840	64.672	15.541	1.00	0.00	C
ATOM	8609	CG	PHE	904	11.843	64.763	14.432	1.00	0.00	C
ATOM	8610	CD1	PHE	904	10.977	65.833	14.418	1.00	0.00	C
ATOM	8611	CD2	PHE	904	11.734	63.817	13.437	1.00	0.00	C
ATOM	8612	CE1	PHE	904	10.030	65.976	13.433	1.00	0.00	C
ATOM	8613	CE2	PHE	904	10.784	63.956	12.447	1.00	0.00	C
ATOM	8614	CZ	PHE	904	9.932	65.035	12.440	1.00	0.00	C
ATOM	8615	C	PHE	904	14.402	66.327	16.497	1.00	0.00	C
ATOM	8616	O	PHE	904	15.541	66.733	16.721	1.00	0.00	O
ATOM	8617	N	ALA	905	13.373	66.477	17.357	1.00	0.00	N
ATOM	8618	HN	ALA	905	12.501	66.027	17.080	1.00	0.00	H
ATOM	8619	CA	ALA	905	13.334	67.183	18.611	1.00	0.00	C
ATOM	8620	CB	ALA	905	12.027	66.841	19.361	1.00	0.00	C
ATOM	8621	C	ALA	905	14.518	66.766	19.429	1.00	0.00	C
ATOM	8622	O	ALA	905	15.176	65.780	19.093	1.00	0.00	O
ATOM	8623	N	PRO	906	14.844	67.550	20.450	1.00	0.00	N
ATOM	8624	CA	PRO	906	15.959	67.248	21.305	1.00	0.00	C
ATOM	8625	CD	PRO	906	13.879	68.413	21.120	1.00	0.00	C
ATOM	8626	CB	PRO	906	15.866	68.234	22.467	1.00	0.00	C
ATOM	8627	CG	PRO	906	14.361	68.522	22.572	1.00	0.00	C
ATOM	8628	C	PRO	906	15.718	65.841	21.747	1.00	0.00	C
ATOM	8629	O	PRO	906	14.549	65.487	21.861	1.00	0.00	O
ATOM	8630	N	ASP	907	16.773	65.050	22.082	1.00	0.00	N
ATOM	8631	HN	ASP	907	17.685	65.506	22.084	1.00	0.00	H
ATOM	8632	CA	ASP	907	16.772	63.637	22.438	1.00	0.00	C
ATOM	8633	CB	ASP	907	18.177	63.093	22.737	1.00	0.00	C
ATOM	8634	CG	ASP	907	18.111	61.573	22.636	1.00	0.00	C
ATOM	8635	OD1	ASP	907	17.000	61.042	22.367	1.00	0.00	O
ATOM	8636	OD2	ASP	907	19.173	60.921	22.822	1.00	0.00	O
ATOM	8637	C	ASP	907	15.918	63.456	23.679	1.00	0.00	C
ATOM	8638	O	ASP	907	15.942	62.436	24.359	1.00	0.00	O
ATOM	8639	N	TYR	908	15.329	64.554	24.143	1.00	0.00	N
ATOM	8640	HN	TYR	908	15.499	65.408	23.612	1.00	0.00	H
ATOM	8641	CA	TYR	908	14.496	64.690	25.279	1.00	0.00	C
ATOM	8642	CB	TYR	908	14.111	63.444	26.115	1.00	0.00	C
ATOM	8643	CG	TYR	908	12.827	62.863	25.628	1.00	0.00	C
ATOM	8644	CD1	TYR	908	11.674	63.591	25.808	1.00	0.00	C
ATOM	8645	CD2	TYR	908	12.739	61.614	25.054	1.00	0.00	C
ATOM	8646	CE1	TYR	908	10.459	63.104	25.394	1.00	0.00	C
ATOM	8647	CE2	TYR	908	11.523	61.120	24.637	1.00	0.00	C
ATOM	8648	CZ	TYR	908	10.381	61.866	24.803	1.00	0.00	C
ATOM	8649	OH	TYR	908	9.132	61.364	24.378	1.00	0.00	O
ATOM	8650	HH	TYR	908	9.078	60.508	23.969	1.00	0.00	H
ATOM	8651	C	TYR	908	15.467	65.457	26.066	1.00	0.00	C
ATOM	8652	O	TYR	908	15.972	66.481	25.610	1.00	0.00	O
ATOM	8653	N	ALA	909	15.749	64.970	27.280	1.00	0.00	N
ATOM	8654	HN	ALA	909	15.186	64.235	27.707	1.00	0.00	H
ATOM	8655	CA	ALA	909	16.879	65.533	27.946	1.00	0.00	C

ATOM	8656	CB	ALA	909	18.133	65.594	27.059	1.00	0.00	C
ATOM	8657	C	ALA	909	16.531	66.900	28.386	1.00	0.00	C
ATOM	8658	O	ALA	909	15.593	67.120	29.136	1.00	0.00	O
ATOM	8659	N	LYS	910	17.280	67.863	27.852	1.00	0.00	N
ATOM	8660	HN	LYS	910	17.965	67.573	27.154	1.00	0.00	H
ATOM	8661	CA	LYS	910	17.226	69.262	28.153	1.00	0.00	C
ATOM	8662	CB	LYS	910	17.874	69.973	26.971	1.00	0.00	C
ATOM	8663	CG	LYS	910	19.083	69.168	26.495	1.00	0.00	C
ATOM	8664	CD	LYS	910	19.350	69.269	24.995	1.00	0.00	C
ATOM	8665	CE	LYS	910	18.374	68.440	24.151	1.00	0.00	C
ATOM	8666	NZ	LYS	910	18.406	67.016	24.546	1.00	0.00	N
ATOM	8667	HZ1	LYS	910	17.757	66.465	23.985	1.00	0.00	H
ATOM	8668	HZ2	LYS	910	18.232	66.899	25.544	1.00	0.00	H
ATOM	8669	HZ3	LYS	910	19.352	66.637	24.507	1.00	0.00	H
ATOM	8670	C	LYS	910	15.779	69.640	28.101	1.00	0.00	C
ATOM	8671	O	LYS	910	15.332	70.495	28.864	1.00	0.00	O
ATOM	8672	N	ALA	911	15.010	69.030	27.177	1.00	0.00	N
ATOM	8673	HN	ALA	911	15.402	68.328	26.549	1.00	0.00	H
ATOM	8674	CA	ALA	911	13.623	69.397	27.102	1.00	0.00	C
ATOM	8675	CB	ALA	911	12.886	68.711	25.938	1.00	0.00	C
ATOM	8676	C	ALA	911	12.917	69.019	28.379	1.00	0.00	C
ATOM	8677	O	ALA	911	12.198	69.817	28.977	1.00	0.00	O
ATOM	8678	N	LYS	912	13.132	67.787	28.862	1.00	0.00	N
ATOM	8679	HN	LYS	912	13.752	67.156	28.354	1.00	0.00	H
ATOM	8680	CA	LYS	912	12.514	67.332	30.073	1.00	0.00	C
ATOM	8681	CB	LYS	912	12.878	65.875	30.409	1.00	0.00	C
ATOM	8682	CG	LYS	912	12.065	65.317	31.577	1.00	0.00	C
ATOM	8683	CD	LYS	912	12.150	63.797	31.720	1.00	0.00	C
ATOM	8684	CE	LYS	912	13.294	63.325	32.620	1.00	0.00	C
ATOM	8685	NZ	LYS	912	13.296	61.847	32.704	1.00	0.00	N
ATOM	8686	HZ1	LYS	912	14.059	61.532	33.304	1.00	0.00	H
ATOM	8687	HZ2	LYS	912	13.331	61.412	31.782	1.00	0.00	H
ATOM	8688	HZ3	LYS	912	12.394	61.480	33.008	1.00	0.00	H
ATOM	8689	C	LYS	912	12.938	68.195	31.235	1.00	0.00	C
ATOM	8690	O	LYS	912	12.105	68.593	32.051	1.00	0.00	O
ATOM	8691	N	ILE	913	14.236	68.541	31.344	1.00	0.00	N
ATOM	8692	HN	ILE	913	14.913	68.259	30.635	1.00	0.00	H
ATOM	8693	CA	ILE	913	14.644	69.321	32.490	1.00	0.00	C
ATOM	8694	CB	ILE	913	16.116	69.610	32.537	1.00	0.00	C
ATOM	8695	CG1	ILE	913	16.565	70.469	31.346	1.00	0.00	C
ATOM	8696	CG2	ILE	913	16.845	68.262	32.641	1.00	0.00	C
ATOM	8697	CD1	ILE	913	17.956	71.071	31.541	1.00	0.00	C
ATOM	8698	C	ILE	913	13.914	70.616	32.451	1.00	0.00	C
ATOM	8699	O	ILE	913	13.380	71.090	33.456	1.00	0.00	O
ATOM	8700	N	SER	914	13.844	71.218	31.260	1.00	0.00	N
ATOM	8701	HN	SER	914	14.246	70.793	30.424	1.00	0.00	H
ATOM	8702	CA	SER	914	13.182	72.482	31.209	1.00	0.00	C
ATOM	8703	CB	SER	914	13.269	73.134	29.817	1.00	0.00	C
ATOM	8704	OG	SER	914	14.623	73.413	29.487	1.00	0.00	O
ATOM	8705	HG	SER	914	14.677	73.815	28.628	1.00	0.00	H
ATOM	8706	C	SER	914	11.732	72.258	31.552	1.00	0.00	C
ATOM	8707	O	SER	914	11.096	73.115	32.166	1.00	0.00	O
ATOM	8708	N	ALA	915	11.161	71.090	31.180	1.00	0.00	N
ATOM	8709	HN	ALA	915	11.711	70.372	30.709	1.00	0.00	H
ATOM	8710	CA	ALA	915	9.764	70.874	31.459	1.00	0.00	C
ATOM	8711	CB	ALA	915	9.247	69.526	30.922	1.00	0.00	C
ATOM	8712	C	ALA	915	9.511	70.885	32.947	1.00	0.00	C
ATOM	8713	O	ALA	915	8.609	71.572	33.438	1.00	0.00	O
ATOM	8714	N	ALA	916	10.354	70.169	33.717	1.00	0.00	N
ATOM	8715	HN	ALA	916	11.162	69.713	33.293	1.00	0.00	H
ATOM	8716	CA	ALA	916	10.126	70.042	35.129	1.00	0.00	C
ATOM	8717	CB	ALA	916	11.231	69.235	35.830	1.00	0.00	C
ATOM	8718	C	ALA	916	10.106	71.408	35.732	1.00	0.00	C
ATOM	8719	O	ALA	916	9.219	71.736	36.521	1.00	0.00	O
ATOM	8720	N	HIS	917	11.057	72.267	35.332	1.00	0.00	N
ATOM	8721	HN	HIS	917	11.723	72.007	34.604	1.00	0.00	H
ATOM	8722	CA	HIS	917	11.115	73.558	35.951	1.00	0.00	C
ATOM	8723	ND1	HIS	917	14.556	73.548	35.431	1.00	0.00	N
ATOM	8724	HD1	HIS	917	14.483	72.947	34.610	1.00	0.00	H
ATOM	8725	CG	HIS	917	13.565	74.344	35.956	1.00	0.00	C
ATOM	8726	CB	HIS	917	12.192	74.494	35.376	1.00	0.00	C
ATOM	8727	NE2	HIS	917	15.431	74.563	37.206	1.00	0.00	N
ATOM	8728	HE2	HIS	917	16.085	74.860	37.930	1.00	0.00	H
ATOM	8729	CD2	HIS	917	14.115	74.956	37.039	1.00	0.00	C

ATOM	8730	CE1	HIS	917	15.650	73.717	36.217	1.00	0.00	C
ATOM	8731	C	HIS	917	9.837	74.310	35.753	1.00	0.00	C
ATOM	8732	O	HIS	917	9.200	74.751	36.709	1.00	0.00	O
ATOM	8733	N	ILE	918	9.390	74.424	34.497	1.00	0.00	N
ATOM	8734	HN	ILE	918	9.858	73.915	33.747	1.00	0.00	H
ATOM	8735	CA	ILE	918	8.262	75.252	34.194	1.00	0.00	C
ATOM	8736	CB	ILE	918	7.970	75.267	32.715	1.00	0.00	C
ATOM	8737	CG1	ILE	918	7.010	76.401	32.316	1.00	0.00	C
ATOM	8738	CG2	ILE	918	7.493	73.864	32.315	1.00	0.00	C
ATOM	8739	CD1	ILE	918	5.576	76.233	32.806	1.00	0.00	C
ATOM	8740	C	ILE	918	7.088	74.731	34.955	1.00	0.00	C
ATOM	8741	O	ILE	918	6.211	75.496	35.355	1.00	0.00	O
ATOM	8742	N	ILE	919	7.044	73.402	35.149	1.00	0.00	N
ATOM	8743	HN	ILE	919	7.822	72.836	34.811	1.00	0.00	H
ATOM	8744	CA	ILE	919	5.953	72.741	35.810	1.00	0.00	C
ATOM	8745	CB	ILE	919	6.180	71.255	35.908	1.00	0.00	C
ATOM	8746	CG1	ILE	919	6.255	70.588	34.524	1.00	0.00	C
ATOM	8747	CG2	ILE	919	5.082	70.676	36.814	1.00	0.00	C
ATOM	8748	CD1	ILE	919	4.935	70.608	33.757	1.00	0.00	C
ATOM	8749	C	ILE	919	5.801	73.185	37.232	1.00	0.00	C
ATOM	8750	O	ILE	919	4.703	73.558	37.647	1.00	0.00	O
ATOM	8751	N	MET	920	6.896	73.189	38.018	1.00	0.00	N
ATOM	8752	HN	MET	920	7.816	72.973	37.633	1.00	0.00	H
ATOM	8753	CA	MET	920	6.737	73.505	39.415	1.00	0.00	C
ATOM	8754	CB	MET	920	8.067	73.515	40.197	1.00	0.00	C
ATOM	8755	CG	MET	920	8.671	72.138	40.493	1.00	0.00	C
ATOM	8756	SD	MET	920	7.788	71.186	41.769	1.00	0.00	S
ATOM	8757	CE	MET	920	9.195	70.126	42.212	1.00	0.00	C
ATOM	8758	C	MET	920	6.168	74.892	39.537	1.00	0.00	C
ATOM	8759	O	MET	920	5.261	75.152	40.330	1.00	0.00	O
ATOM	8760	N	ILE	921	6.685	75.820	38.718	1.00	0.00	N
ATOM	8761	HN	ILE	921	7.381	75.537	38.029	1.00	0.00	H
ATOM	8762	CA	ILE	921	6.289	77.204	38.780	1.00	0.00	C
ATOM	8763	CB	ILE	921	7.143	78.080	37.899	1.00	0.00	C
ATOM	8764	CG1	ILE	921	8.580	78.179	38.455	1.00	0.00	C
ATOM	8765	CG2	ILE	921	6.447	79.446	37.766	1.00	0.00	C
ATOM	8766	CD1	ILE	921	9.370	76.871	38.438	1.00	0.00	C
ATOM	8767	C	ILE	921	4.860	77.406	38.408	1.00	0.00	C
ATOM	8768	O	ILE	921	4.162	78.259	38.961	1.00	0.00	O
ATOM	8769	N	ILE	922	4.408	76.661	37.397	1.00	0.00	N
ATOM	8770	HN	ILE	922	5.030	75.991	36.945	1.00	0.00	H
ATOM	8771	CA	ILE	922	3.064	76.794	36.943	1.00	0.00	C
ATOM	8772	CB	ILE	922	2.808	76.109	35.627	1.00	0.00	C
ATOM	8773	CG1	ILE	922	1.460	76.569	35.044	1.00	0.00	C
ATOM	8774	CG2	ILE	922	2.931	74.592	35.826	1.00	0.00	C
ATOM	8775	CD1	ILE	922	1.229	76.150	33.591	1.00	0.00	C
ATOM	8776	C	ILE	922	2.099	76.293	37.963	1.00	0.00	C
ATOM	8777	O	ILE	922	0.969	76.767	38.020	1.00	0.00	O
ATOM	8778	N	GLU	923	2.479	75.283	38.767	1.00	0.00	N
ATOM	8779	HN	GLU	923	3.440	74.941	38.771	1.00	0.00	H
ATOM	8780	CA	GLU	923	1.477	74.707	39.618	1.00	0.00	C
ATOM	8781	CB	GLU	923	2.015	73.496	40.399	1.00	0.00	C
ATOM	8782	CG	GLU	923	2.656	72.426	39.494	1.00	0.00	C
ATOM	8783	CD	GLU	923	1.685	71.901	38.427	1.00	0.00	C
ATOM	8784	OE1	GLU	923	0.811	72.665	37.941	1.00	0.00	O
ATOM	8785	OE2	GLU	923	1.829	70.702	38.067	1.00	0.00	O
ATOM	8786	C	GLU	923	0.888	75.725	40.558	1.00	0.00	C
ATOM	8787	O	GLU	923	-0.292	76.051	40.432	1.00	0.00	O
ATOM	8788	N	LYS	924	1.724	76.318	41.438	1.00	0.00	N
ATOM	8789	HN	LYS	924	2.700	76.022	41.409	1.00	0.00	H
ATOM	8790	CA	LYS	924	1.382	77.332	42.421	1.00	0.00	C
ATOM	8791	CB	LYS	924	1.801	78.746	41.975	1.00	0.00	C
ATOM	8792	CG	LYS	924	1.251	79.132	40.603	1.00	0.00	C
ATOM	8793	CD	LYS	924	-0.262	79.335	40.595	1.00	0.00	C
ATOM	8794	CE	LYS	924	-0.836	79.628	39.209	1.00	0.00	C
ATOM	8795	NZ	LYS	924	-1.151	78.357	38.523	1.00	0.00	N
ATOM	8796	HZ1	LYS	924	-1.534	78.553	37.598	1.00	0.00	H
ATOM	8797	HZ2	LYS	924	-1.768	77.764	39.077	1.00	0.00	H
ATOM	8798	HZ3	LYS	924	-0.346	77.733	38.481	1.00	0.00	H
ATOM	8799	C	LYS	924	-0.066	77.347	42.924	1.00	0.00	C
ATOM	8800	O	LYS	924	-0.776	76.343	42.872	1.00	0.00	O
ATOM	8801	N	THR	925	-0.489	78.474	43.579	1.00	0.00	N
ATOM	8802	HN	THR	925	0.187	79.223	43.729	1.00	0.00	H
ATOM	8803	CA	THR	925	-1.846	78.668	44.075	1.00	0.00	C

ATOM	8804	CB	THR	925	-1.984	78.284	45.523	1.00	0.00	C
ATOM	8805	OG1	THR	925	-3.310	78.518	45.971	1.00	0.00	O
ATOM	8806	HG1	THR	925	-3.397	78.276	46.885	1.00	0.00	H
ATOM	8807	CG2	THR	925	-0.954	79.052	46.374	1.00	0.00	C
ATOM	8808	C	THR	925	-2.280	80.120	43.906	1.00	0.00	C
ATOM	8809	O	THR	925	-1.917	80.984	44.703	1.00	0.00	O
ATOM	8810	N	PRO	926	-3.156	80.402	42.964	1.00	0.00	N
ATOM	8811	CA	PRO	926	-3.559	81.741	42.574	1.00	0.00	C
ATOM	8812	CD	PRO	926	-3.919	79.368	42.284	1.00	0.00	C
ATOM	8813	CB	PRO	926	-4.765	81.559	41.655	1.00	0.00	C
ATOM	8814	CG	PRO	926	-4.645	80.109	41.147	1.00	0.00	C
ATOM	8815	C	PRO	926	-3.854	82.650	43.716	1.00	0.00	C
ATOM	8816	O	PRO	926	-3.410	83.795	43.722	1.00	0.00	O
ATOM	8817	N	LEU	927	-4.666	82.188	44.657	1.00	0.00	N
ATOM	8818	HN	LEU	927	-5.138	81.297	44.504	1.00	0.00	H
ATOM	8819	CA	LEU	927	-4.905	82.889	45.874	1.00	0.00	C
ATOM	8820	CB	LEU	927	-3.626	83.365	46.574	1.00	0.00	C
ATOM	8821	CG	LEU	927	-3.947	83.981	47.946	1.00	0.00	C
ATOM	8822	CD1	LEU	927	-4.476	82.912	48.914	1.00	0.00	C
ATOM	8823	CD2	LEU	927	-2.757	84.755	48.516	1.00	0.00	C
ATOM	8824	C	LEU	927	-5.787	84.105	45.713	1.00	0.00	C
ATOM	8825	O	LEU	927	-6.579	84.358	46.617	1.00	0.00	O
ATOM	8826	N	ILE	928	-5.690	84.903	44.611	1.00	0.00	N
ATOM	8827	HN	ILE	928	-5.012	84.695	43.878	1.00	0.00	H
ATOM	8828	CA	ILE	928	-6.570	86.057	44.499	1.00	0.00	C
ATOM	8829	CB	ILE	928	-6.073	87.276	45.250	1.00	0.00	C
ATOM	8830	CG1	ILE	928	-4.635	87.667	44.844	1.00	0.00	C
ATOM	8831	CG2	ILE	928	-6.273	87.069	46.755	1.00	0.00	C
ATOM	8832	CD1	ILE	928	-3.556	86.673	45.269	1.00	0.00	C
ATOM	8833	C	ILE	928	-6.796	86.522	43.081	1.00	0.00	C
ATOM	8834	O	ILE	928	-6.356	87.618	42.721	1.00	0.00	O
ATOM	8835	N	ASP	929	-7.456	85.722	42.216	1.00	0.00	N
ATOM	8836	HN	ASP	929	-7.735	84.778	42.482	1.00	0.00	H
ATOM	8837	CA	ASP	929	-7.755	86.243	40.905	1.00	0.00	C
ATOM	8838	CB	ASP	929	-8.025	85.134	39.876	1.00	0.00	C
ATOM	8839	CG	ASP	929	-6.689	84.576	39.417	1.00	0.00	C
ATOM	8840	OD1	ASP	929	-5.939	85.328	38.738	1.00	0.00	O
ATOM	8841	OD2	ASP	929	-6.396	83.397	39.747	1.00	0.00	O
ATOM	8842	C	ASP	929	-8.952	87.142	40.887	1.00	0.00	C
ATOM	8843	O	ASP	929	-8.859	88.364	40.774	1.00	0.00	O
ATOM	8844	N	SER	930	-10.133	86.528	41.080	1.00	0.00	N
ATOM	8845	HN	SER	930	-10.158	85.528	41.277	1.00	0.00	H
ATOM	8846	CA	SER	930	-11.353	87.269	41.010	1.00	0.00	C
ATOM	8847	CB	SER	930	-12.109	87.138	39.681	1.00	0.00	C
ATOM	8848	OG	SER	930	-12.757	85.877	39.624	1.00	0.00	O
ATOM	8849	HG	SER	930	-13.225	85.796	38.801	1.00	0.00	H
ATOM	8850	C	SER	930	-12.214	86.653	42.038	1.00	0.00	C
ATOM	8851	O	SER	930	-11.946	85.532	42.459	1.00	0.00	O
ATOM	8852	N	TYR	931	-13.217	87.406	42.517	1.00	0.00	N
ATOM	8853	HN	TYR	931	-13.335	88.356	42.165	1.00	0.00	H
ATOM	8854	CA	TYR	931	-14.123	86.914	43.506	1.00	0.00	C
ATOM	8855	CB	TYR	931	-13.571	86.981	44.947	1.00	0.00	C
ATOM	8856	CG	TYR	931	-12.338	86.155	45.065	1.00	0.00	C
ATOM	8857	CD1	TYR	931	-12.425	84.783	45.062	1.00	0.00	C
ATOM	8858	CD2	TYR	931	-11.097	86.743	45.168	1.00	0.00	C
ATOM	8859	CE1	TYR	931	-11.297	84.006	45.168	1.00	0.00	C
ATOM	8860	CE2	TYR	931	-9.963	85.972	45.275	1.00	0.00	C
ATOM	8861	CZ	TYR	931	-10.064	84.601	45.275	1.00	0.00	C
ATOM	8862	OH	TYR	931	-8.908	83.801	45.385	1.00	0.00	O
ATOM	8863	HH	TYR	931	-8.055	84.213	45.459	1.00	0.00	H
ATOM	8864	C	TYR	931	-15.249	87.897	43.513	1.00	0.00	C
ATOM	8865	O	TYR	931	-15.210	88.886	42.782	1.00	0.00	O
ATOM	8866	N	SER	932	-16.349	87.586	44.227	1.00	0.00	N
ATOM	8867	HN	SER	932	-16.479	86.636	44.575	1.00	0.00	H
ATOM	8868	CA	SER	932	-17.339	88.591	44.499	1.00	0.00	C
ATOM	8869	CB	SER	932	-18.738	87.986	44.704	1.00	0.00	C
ATOM	8870	OG	SER	932	-19.687	89.008	44.968	1.00	0.00	O
ATOM	8871	HG	SER	932	-20.551	88.634	45.095	1.00	0.00	H
ATOM	8872	C	SER	932	-16.953	89.312	45.761	1.00	0.00	C
ATOM	8873	O	SER	932	-16.568	90.481	45.760	1.00	0.00	O
ATOM	8874	N	THR	933	-17.124	88.581	46.891	1.00	0.00	N
ATOM	8875	HN	THR	933	-17.528	87.653	46.766	1.00	0.00	H
ATOM	8876	CA	THR	933	-16.807	88.953	48.241	1.00	0.00	C
ATOM	8877	CB	THR	933	-15.453	88.490	48.707	1.00	0.00	C



ATOM	8878	OG1	THR	933	-14.453	88.805	47.757	1.00	0.00	O
ATOM	8879	HG1	THR	933	-14.418	89.745	47.626	1.00	0.00	H
ATOM	8880	CG2	THR	933	-15.510	86.968	48.919	1.00	0.00	C
ATOM	8881	C	THR	933	-17.092	90.395	48.464	1.00	0.00	C
ATOM	8882	O	THR	933	-16.423	91.068	49.249	1.00	0.00	O
ATOM	8883	N	GLU	934	-18.167	90.863	47.804	1.00	0.00	N
ATOM	8884	HN	GLU	934	-18.700	90.196	47.246	1.00	0.00	H
ATOM	8885	CA	GLU	934	-18.624	92.219	47.821	1.00	0.00	C
ATOM	8886	CB	GLU	934	-17.520	93.275	48.073	1.00	0.00	C
ATOM	8887	CG	GLU	934	-16.275	93.174	47.186	1.00	0.00	C
ATOM	8888	CD	GLU	934	-16.497	94.007	45.934	1.00	0.00	C
ATOM	8889	OE1	GLU	934	-16.278	95.246	46.000	1.00	0.00	O
ATOM	8890	OE2	GLU	934	-16.909	93.416	44.901	1.00	0.00	O
ATOM	8891	C	GLU	934	-19.253	92.430	46.487	1.00	0.00	C
ATOM	8892	O	GLU	934	-19.600	91.459	45.823	1.00	0.00	O
ATOM	8893	N	GLY	935	-19.292	93.680	45.994	1.00	0.00	N
ATOM	8894	HN	GLY	935	-18.763	94.411	46.469	1.00	0.00	H
ATOM	8895	CA	GLY	935	-20.048	94.025	44.827	1.00	0.00	C
ATOM	8896	C	GLY	935	-19.940	95.508	44.750	1.00	0.00	C
ATOM	8897	O	GLY	935	-20.622	96.174	43.973	1.00	0.00	O
ATOM	8898	N	LEU	936	-19.048	96.051	45.599	1.00	0.00	N
ATOM	8899	HN	LEU	936	-18.547	95.433	46.237	1.00	0.00	H
ATOM	8900	CA	LEU	936	-18.767	97.457	45.651	1.00	0.00	C
ATOM	8901	CB	LEU	936	-18.095	98.040	44.393	1.00	0.00	C
ATOM	8902	CG	LEU	936	-17.422	99.426	44.593	1.00	0.00	C
ATOM	8903	CD1	LEU	936	-17.130	100.098	43.244	1.00	0.00	C
ATOM	8904	CD2	LEU	936	-18.119	100.351	45.607	1.00	0.00	C
ATOM	8905	C	LEU	936	-20.076	98.154	45.797	1.00	0.00	C
ATOM	8906	O	LEU	936	-20.424	99.037	45.016	1.00	0.00	O
ATOM	8907	N	MET	937	-20.852	97.768	46.820	1.00	0.00	N
ATOM	8908	HN	MET	937	-20.527	97.047	47.465	1.00	0.00	H
ATOM	8909	CA	MET	937	-22.137	98.370	47.005	1.00	0.00	C
ATOM	8910	CB	MET	937	-22.821	97.858	48.280	1.00	0.00	C
ATOM	8911	CG	MET	937	-23.271	96.400	48.155	1.00	0.00	C
ATOM	8912	SD	MET	937	-21.934	95.211	47.814	1.00	0.00	S
ATOM	8913	CE	MET	937	-21.000	95.502	49.342	1.00	0.00	C
ATOM	8914	C	MET	937	-21.964	99.852	47.126	1.00	0.00	C
ATOM	8915	O	MET	937	-21.044	100.332	47.786	1.00	0.00	O
ATOM	8916	N	PRO	938	-22.804	100.606	46.454	1.00	0.00	N
ATOM	8917	CA	PRO	938	-22.716	102.028	46.586	1.00	0.00	C
ATOM	8918	CD	PRO	938	-23.402	100.205	45.191	1.00	0.00	C
ATOM	8919	CB	PRO	938	-23.694	102.601	45.569	1.00	0.00	C
ATOM	8920	CG	PRO	938	-23.718	101.527	44.462	1.00	0.00	C
ATOM	8921	C	PRO	938	-23.052	102.261	48.009	1.00	0.00	C
ATOM	8922	O	PRO	938	-24.239	102.272	48.332	1.00	0.00	O
ATOM	8923	N	ASN	939	-22.035	102.514	48.853	1.00	0.00	N
ATOM	8924	HN	ASN	939	-21.094	102.694	48.502	1.00	0.00	H
ATOM	8925	CA	ASN	939	-22.312	102.523	50.258	1.00	0.00	C
ATOM	8926	CB	ASN	939	-23.130	101.275	50.613	1.00	0.00	C
ATOM	8927	CG	ASN	939	-23.246	101.109	52.104	1.00	0.00	C
ATOM	8928	OD1	ASN	939	-23.385	99.986	52.581	1.00	0.00	O
ATOM	8929	ND2	ASN	939	-23.190	102.236	52.861	1.00	0.00	N
ATOM	8930	1HD2	ASN	939	-23.075	103.169	52.465	1.00	0.00	H
ATOM	8931	2HD2	ASN	939	-23.269	102.123	53.872	1.00	0.00	H
ATOM	8932	C	ASN	939	-20.996	102.345	50.943	1.00	0.00	C
ATOM	8933	O	ASN	939	-20.686	102.988	51.944	1.00	0.00	O
ATOM	8934	N	THR	940	-20.175	101.476	50.327	1.00	0.00	N
ATOM	8935	HN	THR	940	-20.494	101.142	49.417	1.00	0.00	H
ATOM	8936	CA	THR	940	-18.915	100.952	50.768	1.00	0.00	C
ATOM	8937	CB	THR	940	-18.303	99.975	49.806	1.00	0.00	C
ATOM	8938	OG1	THR	940	-17.218	99.300	50.427	1.00	0.00	O
ATOM	8939	HG1	THR	940	-17.530	98.826	51.189	1.00	0.00	H
ATOM	8940	CG2	THR	940	-17.798	100.744	48.571	1.00	0.00	C
ATOM	8941	C	THR	940	-17.939	102.068	50.904	1.00	0.00	C
ATOM	8942	O	THR	940	-16.795	101.854	51.292	1.00	0.00	O
ATOM	8943	N	LEU	941	-18.350	103.270	50.493	1.00	0.00	N
ATOM	8944	HN	LEU	941	-19.319	103.345	50.183	1.00	0.00	H
ATOM	8945	CA	LEU	941	-17.559	104.465	50.446	1.00	0.00	C
ATOM	8946	CB	LEU	941	-18.356	105.632	49.857	1.00	0.00	C
ATOM	8947	CG	LEU	941	-18.792	105.371	48.407	1.00	0.00	C
ATOM	8948	CD1	LEU	941	-19.702	106.494	47.907	1.00	0.00	C
ATOM	8949	CD2	LEU	941	-17.588	105.126	47.483	1.00	0.00	C
ATOM	8950	C	LEU	941	-17.042	104.922	51.786	1.00	0.00	C
ATOM	8951	O	LEU	941	-16.042	105.638	51.812	1.00	0.00	O

ATOM	8952	N	GLU	942	-17.690	104.576	52.924	1.00	0.00	N
ATOM	8953	HN	GLU	942	-18.453	103.900	52.894	1.00	0.00	H
ATOM	8954	CA	GLU	942	-17.293	105.172	54.186	1.00	0.00	C
ATOM	8955	CB	GLU	942	-18.053	104.583	55.386	1.00	0.00	C
ATOM	8956	CG	GLU	942	-19.473	105.132	55.518	1.00	0.00	C
ATOM	8957	CD	GLU	942	-19.348	106.518	56.135	1.00	0.00	C
ATOM	8958	OE1	GLU	942	-19.065	106.591	57.360	1.00	0.00	O
ATOM	8959	OE2	GLU	942	-19.525	107.521	55.393	1.00	0.00	O
ATOM	8960	C	GLU	942	-15.815	105.022	54.454	1.00	0.00	C
ATOM	8961	O	GLU	942	-15.112	106.030	54.519	1.00	0.00	O
ATOM	8962	N	GLY	943	-15.271	103.790	54.521	1.00	0.00	N
ATOM	8963	HN	GLY	943	-15.856	102.957	54.453	1.00	0.00	H
ATOM	8964	CA	GLY	943	-13.844	103.676	54.691	1.00	0.00	C
ATOM	8965	C	GLY	943	-13.376	103.662	56.125	1.00	0.00	C
ATOM	8966	O	GLY	943	-12.326	104.229	56.428	1.00	0.00	O
ATOM	8967	N	ASN	944	-14.132	103.030	57.049	1.00	0.00	N
ATOM	8968	HN	ASN	944	-15.043	102.654	56.784	1.00	0.00	H
ATOM	8969	CA	ASN	944	-13.666	102.880	58.408	1.00	0.00	C
ATOM	8970	CB	ASN	944	-14.798	102.760	59.448	1.00	0.00	C
ATOM	8971	CG	ASN	944	-15.481	104.108	59.628	1.00	0.00	C
ATOM	8972	OD1	ASN	944	-16.407	104.455	58.896	1.00	0.00	O
ATOM	8973	ND2	ASN	944	-15.023	104.881	60.647	1.00	0.00	N
ATOM	8974	1HD2	ASN	944	-15.481	105.784	60.768	1.00	0.00	H
ATOM	8975	2HD2	ASN	944	-14.255	104.593	61.254	1.00	0.00	H
ATOM	8976	C	ASN	944	-12.931	101.569	58.454	1.00	0.00	C
ATOM	8977	O	ASN	944	-13.504	100.534	58.120	1.00	0.00	O
ATOM	8978	N	VAL	945	-11.643	101.562	58.878	1.00	0.00	N
ATOM	8979	HN	VAL	945	-11.208	102.417	59.224	1.00	0.00	H
ATOM	8980	CA	VAL	945	-10.897	100.327	58.833	1.00	0.00	C
ATOM	8981	CB	VAL	945	-9.489	100.503	58.342	1.00	0.00	C
ATOM	8982	CG1	VAL	945	-8.790	99.135	58.387	1.00	0.00	C
ATOM	8983	CG2	VAL	945	-9.529	101.134	56.937	1.00	0.00	C
ATOM	8984	C	VAL	945	-10.839	99.659	60.179	1.00	0.00	C
ATOM	8985	O	VAL	945	-10.641	100.301	61.209	1.00	0.00	O
ATOM	8986	N	THR	946	-10.997	98.316	60.215	1.00	0.00	N
ATOM	8987	HN	THR	946	-11.128	97.776	59.360	1.00	0.00	H
ATOM	8988	CA	THR	946	-10.973	97.679	61.500	1.00	0.00	C
ATOM	8989	CB	THR	946	-12.314	97.195	61.972	1.00	0.00	C
ATOM	8990	OG1	THR	946	-12.212	96.686	63.294	1.00	0.00	O
ATOM	8991	HG1	THR	946	-13.060	96.380	63.593	1.00	0.00	H
ATOM	8992	CG2	THR	946	-12.818	96.099	61.033	1.00	0.00	C
ATOM	8993	C	THR	946	-10.008	96.538	61.533	1.00	0.00	C
ATOM	8994	O	THR	946	-10.019	95.664	60.671	1.00	0.00	O
ATOM	8995	N	PHE	947	-9.122	96.527	62.551	1.00	0.00	N
ATOM	8996	HN	PHE	947	-9.091	97.311	63.203	1.00	0.00	H
ATOM	8997	CA	PHE	947	-8.225	95.423	62.723	1.00	0.00	C
ATOM	8998	CB	PHE	947	-6.729	95.765	62.842	1.00	0.00	C
ATOM	8999	CG	PHE	947	-6.106	95.807	61.495	1.00	0.00	C
ATOM	9000	CD1	PHE	947	-5.981	94.637	60.784	1.00	0.00	C
ATOM	9001	CD2	PHE	947	-5.610	96.973	60.963	1.00	0.00	C
ATOM	9002	CE1	PHE	947	-5.397	94.627	59.542	1.00	0.00	C
ATOM	9003	CE2	PHE	947	-5.024	96.968	59.719	1.00	0.00	C
ATOM	9004	CZ	PHE	947	-4.919	95.797	59.006	1.00	0.00	C
ATOM	9005	C	PHE	947	-8.547	94.753	64.011	1.00	0.00	C
ATOM	9006	O	PHE	947	-8.537	95.377	65.073	1.00	0.00	O
ATOM	9007	N	GLY	948	-8.801	93.433	63.953	1.00	0.00	N
ATOM	9008	HN	GLY	948	-8.769	92.927	63.068	1.00	0.00	H
ATOM	9009	CA	GLY	948	-9.117	92.766	65.175	1.00	0.00	C
ATOM	9010	C	GLY	948	-8.325	91.503	65.283	1.00	0.00	C
ATOM	9011	O	GLY	948	-8.323	90.649	64.398	1.00	0.00	O
ATOM	9012	N	GLU	949	-7.611	91.401	66.414	1.00	0.00	N
ATOM	9013	HN	GLU	949	-7.601	92.227	67.012	1.00	0.00	H
ATOM	9014	CA	GLU	949	-6.862	90.278	66.885	1.00	0.00	C
ATOM	9015	CB	GLU	949	-7.712	89.004	67.009	1.00	0.00	C
ATOM	9016	CG	GLU	949	-7.068	87.943	67.902	1.00	0.00	C
ATOM	9017	CD	GLU	949	-7.241	88.402	69.344	1.00	0.00	C
ATOM	9018	OE1	GLU	949	-8.378	88.816	69.695	1.00	0.00	O
ATOM	9019	OE2	GLU	949	-6.241	88.355	70.109	1.00	0.00	O
ATOM	9020	C	GLU	949	-5.686	89.989	66.011	1.00	0.00	C
ATOM	9021	O	GLU	949	-4.787	89.286	66.469	1.00	0.00	O
ATOM	9022	N	VAL	950	-5.589	90.678	64.846	1.00	0.00	N
ATOM	9023	HN	VAL	950	-6.254	91.437	64.696	1.00	0.00	H
ATOM	9024	CA	VAL	950	-4.627	90.430	63.802	1.00	0.00	C
ATOM	9025	CB	VAL	950	-4.410	91.609	62.899	1.00	0.00	C

ATOM	9026	CG1	VAL	950	-5.677	91.792	62.064	1.00	0.00	C
ATOM	9027	CG2	VAL	950	-4.099	92.855	63.744	1.00	0.00	C
ATOM	9028	C	VAL	950	-3.300	89.981	64.322	1.00	0.00	C
ATOM	9029	O	VAL	950	-2.576	90.707	65.003	1.00	0.00	O
ATOM	9030	N	VAL	951	-2.982	88.711	63.996	1.00	0.00	N
ATOM	9031	HN	VAL	951	-3.646	88.172	63.439	1.00	0.00	H
ATOM	9032	CA	VAL	951	-1.756	88.081	64.394	1.00	0.00	C
ATOM	9033	CB	VAL	951	-1.971	86.898	65.287	1.00	0.00	C
ATOM	9034	CG1	VAL	951	-0.600	86.318	65.629	1.00	0.00	C
ATOM	9035	CG2	VAL	951	-2.783	87.321	66.519	1.00	0.00	C
ATOM	9036	C	VAL	951	-1.140	87.572	63.124	1.00	0.00	C
ATOM	9037	O	VAL	951	-1.849	87.008	62.292	1.00	0.00	O
ATOM	9038	N	PHE	952	0.189	87.749	62.924	1.00	0.00	N
ATOM	9039	HN	PHE	952	0.784	88.154	63.647	1.00	0.00	H
ATOM	9040	CA	PHE	952	0.728	87.343	61.650	1.00	0.00	C
ATOM	9041	CB	PHE	952	0.071	88.159	60.521	1.00	0.00	C
ATOM	9042	CG	PHE	952	0.944	88.184	59.318	1.00	0.00	C
ATOM	9043	CD1	PHE	952	0.980	87.140	58.425	1.00	0.00	C
ATOM	9044	CD2	PHE	952	1.723	89.296	59.088	1.00	0.00	C
ATOM	9045	CE1	PHE	952	1.797	87.206	57.321	1.00	0.00	C
ATOM	9046	CE2	PHE	952	2.541	89.368	57.987	1.00	0.00	C
ATOM	9047	CZ	PHE	952	2.577	88.318	57.102	1.00	0.00	C
ATOM	9048	C	PHE	952	2.224	87.519	61.529	1.00	0.00	C
ATOM	9049	O	PHE	952	2.808	88.451	62.083	1.00	0.00	O
ATOM	9050	N	ASN	953	2.876	86.599	60.765	1.00	0.00	N
ATOM	9051	HN	ASN	953	2.347	85.812	60.390	1.00	0.00	H
ATOM	9052	CA	ASN	953	4.283	86.693	60.465	1.00	0.00	C
ATOM	9053	CB	ASN	953	5.196	85.835	61.352	1.00	0.00	C
ATOM	9054	CG	ASN	953	6.622	86.234	60.994	1.00	0.00	C
ATOM	9055	OD1	ASN	953	7.298	85.551	60.226	1.00	0.00	O
ATOM	9056	ND2	ASN	953	7.083	87.397	61.530	1.00	0.00	N
ATOM	9057	1HD2	ASN	953	8.038	87.664	61.290	1.00	0.00	H
ATOM	9058	2HD2	ASN	953	6.522	87.963	62.167	1.00	0.00	H
ATOM	9059	C	ASN	953	4.523	86.245	59.047	1.00	0.00	C
ATOM	9060	O	ASN	953	4.266	85.095	58.687	1.00	0.00	O
ATOM	9061	N	TYR	954	5.088	87.140	58.209	1.00	0.00	N
ATOM	9062	HN	TYR	954	5.347	88.064	58.554	1.00	0.00	H
ATOM	9063	CA	TYR	954	5.327	86.798	56.833	1.00	0.00	C
ATOM	9064	CB	TYR	954	5.913	87.939	55.977	1.00	0.00	C
ATOM	9065	CG	TYR	954	7.170	88.428	56.604	1.00	0.00	C
ATOM	9066	CD1	TYR	954	7.119	89.385	57.592	1.00	0.00	C
ATOM	9067	CD2	TYR	954	8.393	87.939	56.208	1.00	0.00	C
ATOM	9068	CE1	TYR	954	8.273	89.850	58.175	1.00	0.00	C
ATOM	9069	CE2	TYR	954	9.551	88.400	56.788	1.00	0.00	C
ATOM	9070	CZ	TYR	954	9.490	89.357	57.773	1.00	0.00	C
ATOM	9071	OH	TYR	954	10.677	89.833	58.369	1.00	0.00	O
ATOM	9072	HH	TYR	954	11.519	89.492	58.091	1.00	0.00	H
ATOM	9073	C	TYR	954	6.234	85.624	56.813	1.00	0.00	C
ATOM	9074	O	TYR	954	7.184	85.536	57.586	1.00	0.00	O
ATOM	9075	N	PRO	955	5.911	84.752	55.893	1.00	0.00	N
ATOM	9076	CA	PRO	955	6.509	83.441	55.801	1.00	0.00	C
ATOM	9077	CD	PRO	955	5.610	85.269	54.572	1.00	0.00	C
ATOM	9078	CB	PRO	955	6.251	82.947	54.390	1.00	0.00	C
ATOM	9079	CG	PRO	955	6.238	84.260	53.602	1.00	0.00	C
ATOM	9080	C	PRO	955	7.973	83.444	56.053	1.00	0.00	C
ATOM	9081	O	PRO	955	8.782	83.703	55.163	1.00	0.00	O
ATOM	9082	N	THR	956	8.278	83.162	57.317	1.00	0.00	N
ATOM	9083	HN	THR	956	7.477	83.054	57.939	1.00	0.00	H
ATOM	9084	CA	THR	956	9.543	82.988	57.934	1.00	0.00	C
ATOM	9085	CB	THR	956	10.427	84.189	57.824	1.00	0.00	C
ATOM	9086	OG1	THR	956	11.700	83.902	58.385	1.00	0.00	O
ATOM	9087	HG1	THR	956	12.110	83.176	57.929	1.00	0.00	H
ATOM	9088	CG2	THR	956	9.763	85.365	58.562	1.00	0.00	C
ATOM	9089	C	THR	956	9.076	82.901	59.343	1.00	0.00	C
ATOM	9090	O	THR	956	9.792	83.211	60.292	1.00	0.00	O
ATOM	9091	N	ARG	957	7.851	82.353	59.458	1.00	0.00	N
ATOM	9092	HN	ARG	957	7.488	81.915	58.611	1.00	0.00	H
ATOM	9093	CA	ARG	957	6.982	82.295	60.598	1.00	0.00	C
ATOM	9094	CB	ARG	957	5.694	81.505	60.307	1.00	0.00	C
ATOM	9095	CG	ARG	957	4.582	81.720	61.336	1.00	0.00	C
ATOM	9096	CD	ARG	957	3.299	80.955	61.004	1.00	0.00	C
ATOM	9097	NE	ARG	957	2.863	81.387	59.645	1.00	0.00	N
ATOM	9098	HE	ARG	957	3.073	82.329	59.314	1.00	0.00	H
ATOM	9099	CZ	ARG	957	2.181	80.514	58.847	1.00	0.00	C

ATOM	9100	NH1	ARG	957	1.862	79.275	59.320	1.00	0.00	N
ATOM	9101	1HH1	ARG	957	1.352	78.623	58.724	1.00	0.00	H
ATOM	9102	2HH1	ARG	957	2.129	79.006	60.267	1.00	0.00	H
ATOM	9103	NH2	ARG	957	1.824	80.874	57.579	1.00	0.00	N
ATOM	9104	1HH2	ARG	957	1.314	80.222	56.983	1.00	0.00	H
ATOM	9105	2HH2	ARG	957	2.063	81.800	57.225	1.00	0.00	H
ATOM	9106	C	ARG	957	7.664	81.689	61.783	1.00	0.00	C
ATOM	9107	O	ARG	957	7.265	82.013	62.901	1.00	0.00	O
ATOM	9108	N	PRO	958	8.633	80.826	61.667	1.00	0.00	N
ATOM	9109	CA	PRO	958	9.279	80.334	62.850	1.00	0.00	C
ATOM	9110	CD	PRO	958	8.736	79.860	60.587	1.00	0.00	C
ATOM	9111	CB	PRO	958	10.272	79.272	62.364	1.00	0.00	C
ATOM	9112	CG	PRO	958	10.124	79.255	60.825	1.00	0.00	C
ATOM	9113	C	PRO	958	9.884	81.474	63.610	1.00	0.00	C
ATOM	9114	O	PRO	958	10.163	81.326	64.799	1.00	0.00	O
ATOM	9115	N	ASP	959	10.093	82.614	62.933	1.00	0.00	N
ATOM	9116	HN	ASP	959	9.849	82.622	61.943	1.00	0.00	H
ATOM	9117	CA	ASP	959	10.632	83.822	63.489	1.00	0.00	C
ATOM	9118	CB	ASP	959	10.978	84.892	62.435	1.00	0.00	C
ATOM	9119	CG	ASP	959	11.933	85.885	63.088	1.00	0.00	C
ATOM	9120	OD1	ASP	959	12.642	85.471	64.043	1.00	0.00	O
ATOM	9121	OD2	ASP	959	11.966	87.065	62.648	1.00	0.00	O
ATOM	9122	C	ASP	959	9.592	84.394	64.406	1.00	0.00	C
ATOM	9123	O	ASP	959	9.786	85.446	65.011	1.00	0.00	O
ATOM	9124	N	ILE	960	8.396	83.781	64.454	1.00	0.00	N
ATOM	9125	HN	ILE	960	8.229	82.937	63.907	1.00	0.00	H
ATOM	9126	CA	ILE	960	7.357	84.324	65.281	1.00	0.00	C
ATOM	9127	CB	ILE	960	7.765	84.650	66.692	1.00	0.00	C
ATOM	9128	CG1	ILE	960	8.168	83.365	67.439	1.00	0.00	C
ATOM	9129	CG2	ILE	960	6.597	85.394	67.363	1.00	0.00	C
ATOM	9130	CD1	ILE	960	7.038	82.340	67.546	1.00	0.00	C
ATOM	9131	C	ILE	960	6.869	85.557	64.595	1.00	0.00	C
ATOM	9132	O	ILE	960	7.602	86.193	63.840	1.00	0.00	O
ATOM	9133	N	PRO	961	5.605	85.827	64.772	1.00	0.00	N
ATOM	9134	CA	PRO	961	4.991	86.954	64.113	1.00	0.00	C
ATOM	9135	CD	PRO	961	4.680	84.710	64.908	1.00	0.00	C
ATOM	9136	CB	PRO	961	3.492	86.670	64.149	1.00	0.00	C
ATOM	9137	CG	PRO	961	3.399	85.139	64.185	1.00	0.00	C
ATOM	9138	C	PRO	961	5.325	88.308	64.663	1.00	0.00	C
ATOM	9139	O	PRO	961	5.632	88.425	65.847	1.00	0.00	O
ATOM	9140	N	VAL	962	5.329	89.327	63.778	1.00	0.00	N
ATOM	9141	HN	VAL	962	5.208	89.082	62.795	1.00	0.00	H
ATOM	9142	CA	VAL	962	5.487	90.723	64.082	1.00	0.00	C
ATOM	9143	CB	VAL	962	5.983	91.534	62.918	1.00	0.00	C
ATOM	9144	CG1	VAL	962	5.035	91.344	61.728	1.00	0.00	C
ATOM	9145	CG2	VAL	962	6.122	92.996	63.374	1.00	0.00	C
ATOM	9146	C	VAL	962	4.182	91.266	64.588	1.00	0.00	C
ATOM	9147	O	VAL	962	4.145	92.352	65.168	1.00	0.00	O
ATOM	9148	N	LEU	963	3.055	90.580	64.282	1.00	0.00	N
ATOM	9149	HN	LEU	963	3.097	89.748	63.694	1.00	0.00	H
ATOM	9150	CA	LEU	963	1.794	91.047	64.803	1.00	0.00	C
ATOM	9151	CB	LEU	963	0.695	91.268	63.743	1.00	0.00	C
ATOM	9152	CG	LEU	963	1.059	92.274	62.633	1.00	0.00	C
ATOM	9153	CD1	LEU	963	1.457	93.644	63.208	1.00	0.00	C
ATOM	9154	CD2	LEU	963	2.091	91.685	61.660	1.00	0.00	C
ATOM	9155	C	LEU	963	1.268	89.968	65.697	1.00	0.00	C
ATOM	9156	O	LEU	963	0.923	88.888	65.223	1.00	0.00	O
ATOM	9157	N	GLN	964	1.178	90.228	67.017	1.00	0.00	N
ATOM	9158	HN	GLN	964	1.448	91.143	67.377	1.00	0.00	H
ATOM	9159	CA	GLN	964	0.702	89.214	67.913	1.00	0.00	C
ATOM	9160	CB	GLN	964	1.710	88.880	69.025	1.00	0.00	C
ATOM	9161	CG	GLN	964	3.078	88.426	68.523	1.00	0.00	C
ATOM	9162	CD	GLN	964	4.046	88.487	69.697	1.00	0.00	C
ATOM	9163	OE1	GLN	964	5.263	88.507	69.517	1.00	0.00	O
ATOM	9164	NE2	GLN	964	3.492	88.533	70.938	1.00	0.00	N
ATOM	9165	1HE2	GLN	964	2.483	88.516	71.087	1.00	0.00	H
ATOM	9166	2HE2	GLN	964	4.140	88.574	71.724	1.00	0.00	H
ATOM	9167	C	GLN	964	-0.469	89.771	68.659	1.00	0.00	C
ATOM	9168	O	GLN	964	-0.285	90.398	69.701	1.00	0.00	O
ATOM	9169	N	GLY	965	-1.707	89.509	68.190	1.00	0.00	N
ATOM	9170	HN	GLY	965	-1.825	88.981	67.325	1.00	0.00	H
ATOM	9171	CA	GLY	965	-2.859	89.975	68.912	1.00	0.00	C
ATOM	9172	C	GLY	965	-3.010	91.461	68.782	1.00	0.00	C
ATOM	9173	O	GLY	965	-3.083	92.170	69.785	1.00	0.00	O

ATOM	9174	N	LEU	966	-3.072	91.978	67.539	1.00	0.00	N
ATOM	9175	HN	LEU	966	-3.062	91.362	66.726	1.00	0.00	H
ATOM	9176	CA	LEU	966	-3.152	93.405	67.366	1.00	0.00	C
ATOM	9177	CB	LEU	966	-2.213	93.937	66.274	1.00	0.00	C
ATOM	9178	CG	LEU	966	-2.304	95.461	66.092	1.00	0.00	C
ATOM	9179	CD1	LEU	966	-1.887	96.213	67.367	1.00	0.00	C
ATOM	9180	CD2	LEU	966	-1.525	95.910	64.846	1.00	0.00	C
ATOM	9181	C	LEU	966	-4.545	93.810	66.974	1.00	0.00	C
ATOM	9182	O	LEU	966	-5.216	93.087	66.242	1.00	0.00	O
ATOM	9183	N	SER	967	-5.024	94.973	67.488	1.00	0.00	N
ATOM	9184	HN	SER	967	-4.452	95.486	68.159	1.00	0.00	H
ATOM	9185	CA	SER	967	-6.305	95.507	67.121	1.00	0.00	C
ATOM	9186	CB	SER	967	-7.442	95.048	68.047	1.00	0.00	C
ATOM	9187	OG	SER	967	-7.598	93.641	67.946	1.00	0.00	O
ATOM	9188	HG	SER	967	-8.301	93.357	68.519	1.00	0.00	H
ATOM	9189	C	SER	967	-6.263	97.012	67.175	1.00	0.00	C
ATOM	9190	O	SER	967	-5.865	97.606	68.177	1.00	0.00	O
ATOM	9191	N	LEU	968	-6.693	97.667	66.074	1.00	0.00	N
ATOM	9192	HN	LEU	968	-7.001	97.117	65.272	1.00	0.00	H
ATOM	9193	CA	LEU	968	-6.738	99.102	65.978	1.00	0.00	C
ATOM	9194	CB	LEU	968	-5.560	99.727	65.214	1.00	0.00	C
ATOM	9195	CG	LEU	968	-4.174	99.284	65.710	1.00	0.00	C
ATOM	9196	CD1	LEU	968	-3.988	99.574	67.205	1.00	0.00	C
ATOM	9197	CD2	LEU	968	-3.889	97.827	65.322	1.00	0.00	C
ATOM	9198	C	LEU	968	-7.936	99.404	65.133	1.00	0.00	C
ATOM	9199	O	LEU	968	-8.738	98.520	64.839	1.00	0.00	O
ATOM	9200	N	GLU	969	-8.111	100.682	64.747	1.00	0.00	N
ATOM	9201	HN	GLU	969	-7.465	101.406	65.061	1.00	0.00	H
ATOM	9202	CA	GLU	969	-9.212	101.020	63.891	1.00	0.00	C
ATOM	9203	CB	GLU	969	-10.539	101.176	64.637	1.00	0.00	C
ATOM	9204	CG	GLU	969	-10.522	102.464	65.463	1.00	0.00	C
ATOM	9205	CD	GLU	969	-11.929	102.809	65.917	1.00	0.00	C
ATOM	9206	OE1	GLU	969	-12.833	102.953	65.052	1.00	0.00	O
ATOM	9207	OE2	GLU	969	-12.110	102.942	67.155	1.00	0.00	O
ATOM	9208	C	GLU	969	-8.953	102.407	63.396	1.00	0.00	C
ATOM	9209	O	GLU	969	-8.044	103.089	63.867	1.00	0.00	O
ATOM	9210	N	VAL	970	-9.749	102.857	62.407	1.00	0.00	N
ATOM	9211	HN	VAL	970	-10.430	102.232	61.977	1.00	0.00	H
ATOM	9212	CA	VAL	970	-9.639	104.214	61.959	1.00	0.00	C
ATOM	9213	CB	VAL	970	-8.668	104.392	60.820	1.00	0.00	C
ATOM	9214	CG1	VAL	970	-9.188	103.654	59.574	1.00	0.00	C
ATOM	9215	CG2	VAL	970	-8.438	105.896	60.609	1.00	0.00	C
ATOM	9216	C	VAL	970	-10.998	104.664	61.505	1.00	0.00	C
ATOM	9217	O	VAL	970	-11.658	103.992	60.714	1.00	0.00	O
ATOM	9218	N	LYS	971	-11.435	105.852	61.971	1.00	0.00	N
ATOM	9219	HN	LYS	971	-10.826	106.388	62.588	1.00	0.00	H
ATOM	9220	CA	LYS	971	-12.725	106.395	61.634	1.00	0.00	C
ATOM	9221	CB	LYS	971	-13.075	107.665	62.426	1.00	0.00	C
ATOM	9222	CG	LYS	971	-13.256	107.418	63.926	1.00	0.00	C
ATOM	9223	CD	LYS	971	-11.965	107.018	64.642	1.00	0.00	C
ATOM	9224	CE	LYS	971	-12.147	106.788	66.144	1.00	0.00	C
ATOM	9225	NZ	LYS	971	-10.866	106.372	66.756	1.00	0.00	N
ATOM	9226	HZ1	LYS	971	-10.987	106.219	67.757	1.00	0.00	H
ATOM	9227	HZ2	LYS	971	-10.117	107.036	66.560	1.00	0.00	H
ATOM	9228	HZ3	LYS	971	-10.469	105.556	66.291	1.00	0.00	H
ATOM	9229	C	LYS	971	-12.710	106.737	60.175	1.00	0.00	C
ATOM	9230	O	LYS	971	-11.899	106.204	59.421	1.00	0.00	O
ATOM	9231	N	LYS	972	-13.649	107.586	59.705	1.00	0.00	N
ATOM	9232	HN	LYS	972	-14.349	108.013	60.311	1.00	0.00	H
ATOM	9233	CA	LYS	972	-13.594	107.846	58.294	1.00	0.00	C
ATOM	9234	CB	LYS	972	-14.903	107.590	57.519	1.00	0.00	C
ATOM	9235	CG	LYS	972	-15.910	108.737	57.556	1.00	0.00	C
ATOM	9236	CD	LYS	972	-16.471	109.050	58.938	1.00	0.00	C
ATOM	9237	CE	LYS	972	-17.264	110.355	58.955	1.00	0.00	C
ATOM	9238	NZ	LYS	972	-18.438	110.236	58.063	1.00	0.00	N
ATOM	9239	HZ1	LYS	972	-18.968	111.108	58.074	1.00	0.00	H
ATOM	9240	HZ2	LYS	972	-19.018	109.431	58.297	1.00	0.00	H
ATOM	9241	HZ3	LYS	972	-18.176	109.958	57.117	1.00	0.00	H
ATOM	9242	C	LYS	972	-13.182	109.263	58.044	1.00	0.00	C
ATOM	9243	O	LYS	972	-13.124	110.094	58.948	1.00	0.00	O
ATOM	9244	N	GLY	973	-12.776	109.539	56.793	1.00	0.00	N
ATOM	9245	HN	GLY	973	-12.694	108.772	56.126	1.00	0.00	H
ATOM	9246	CA	GLY	973	-12.454	110.864	56.358	1.00	0.00	C
ATOM	9247	C	GLY	973	-11.426	111.469	57.267	1.00	0.00	C

ATOM	9248	O	GLY	973	-11.322	112.693	57.331	1.00	0.00	O
ATOM	9249	N	GLN	974	-10.613	110.656	57.972	1.00	0.00	N
ATOM	9250	HN	GLN	974	-10.652	109.644	57.848	1.00	0.00	H
ATOM	9251	CA	GLN	974	-9.689	111.247	58.903	1.00	0.00	C
ATOM	9252	CB	GLN	974	-10.244	111.285	60.340	1.00	0.00	C
ATOM	9253	CG	GLN	974	-10.939	110.003	60.805	1.00	0.00	C
ATOM	9254	CD	GLN	974	-9.950	108.869	60.945	1.00	0.00	C
ATOM	9255	OE1	GLN	974	-9.401	108.381	59.958	1.00	0.00	O
ATOM	9256	NE2	GLN	974	-9.738	108.420	62.211	1.00	0.00	N
ATOM	9257	1HE2	GLN	974	-9.070	107.655	62.305	1.00	0.00	H
ATOM	9258	2HE2	GLN	974	-10.193	108.825	63.029	1.00	0.00	H
ATOM	9259	C	GLN	974	-8.293	110.684	58.803	1.00	0.00	C
ATOM	9260	O	GLN	974	-7.841	110.351	57.709	1.00	0.00	O
ATOM	9261	N	THR	975	-7.511	110.670	59.915	1.00	0.00	N
ATOM	9262	HN	THR	975	-7.867	110.995	60.814	1.00	0.00	H
ATOM	9263	CA	THR	975	-6.156	110.179	59.781	1.00	0.00	C
ATOM	9264	CB	THR	975	-5.118	111.240	59.550	1.00	0.00	C
ATOM	9265	OG1	THR	975	-5.262	112.299	60.480	1.00	0.00	O
ATOM	9266	HG1	THR	975	-5.209	111.982	61.374	1.00	0.00	H
ATOM	9267	CG2	THR	975	-5.204	111.750	58.113	1.00	0.00	C
ATOM	9268	C	THR	975	-5.662	109.355	60.931	1.00	0.00	C
ATOM	9269	O	THR	975	-5.470	109.840	62.048	1.00	0.00	O
ATOM	9270	N	LEU	976	-5.346	108.078	60.631	1.00	0.00	N
ATOM	9271	HN	LEU	976	-5.499	107.738	59.682	1.00	0.00	H
ATOM	9272	CA	LEU	976	-4.800	107.187	61.613	1.00	0.00	C
ATOM	9273	CB	LEU	976	-5.152	105.710	61.369	1.00	0.00	C
ATOM	9274	CG	LEU	976	-4.341	104.734	62.240	1.00	0.00	C
ATOM	9275	CD1	LEU	976	-4.373	105.111	63.726	1.00	0.00	C
ATOM	9276	CD2	LEU	976	-4.804	103.292	62.010	1.00	0.00	C
ATOM	9277	C	LEU	976	-3.311	107.344	61.613	1.00	0.00	C
ATOM	9278	O	LEU	976	-2.637	107.091	60.615	1.00	0.00	O
ATOM	9279	N	ALA	977	-2.762	107.758	62.774	1.00	0.00	N
ATOM	9280	HN	ALA	977	-3.364	107.893	63.586	1.00	0.00	H
ATOM	9281	CA	ALA	977	-1.353	108.014	62.900	1.00	0.00	C
ATOM	9282	CB	ALA	977	-1.020	109.162	63.868	1.00	0.00	C
ATOM	9283	C	ALA	977	-0.664	106.796	63.417	1.00	0.00	C
ATOM	9284	O	ALA	977	-1.040	106.220	64.439	1.00	0.00	O
ATOM	9285	N	LEU	978	0.402	106.368	62.719	1.00	0.00	N
ATOM	9286	HN	LEU	978	0.748	106.860	61.895	1.00	0.00	H
ATOM	9287	CA	LEU	978	1.015	105.180	63.210	1.00	0.00	C
ATOM	9288	CB	LEU	978	0.932	104.017	62.207	1.00	0.00	C
ATOM	9289	CG	LEU	978	1.212	102.630	62.809	1.00	0.00	C
ATOM	9290	CD1	LEU	978	2.639	102.519	63.365			

ATOM	9322	O	SER	982	10.526	98.251	62.836	1.00	0.00	O
ATOM	9323	N	GLY	983	11.146	99.619	61.140	1.00	0.00	N
ATOM	9324	HN	GLY	983	11.395	100.571	60.873	1.00	0.00	H
ATOM	9325	CA	GLY	983	11.066	98.616	60.118	1.00	0.00	C
ATOM	9326	C	GLY	983	9.708	97.996	60.089	1.00	0.00	C
ATOM	9327	O	GLY	983	8.698	98.652	59.843	1.00	0.00	O
ATOM	9328	N	CYS	984	9.670	96.680	60.358	1.00	0.00	N
ATOM	9329	HN	CYS	984	10.528	96.209	60.645	1.00	0.00	H
ATOM	9330	CA	CYS	984	8.465	95.919	60.255	1.00	0.00	C
ATOM	9331	CB	CYS	984	8.668	94.421	60.549	1.00	0.00	C
ATOM	9332	SG	CYS	984	9.256	94.106	62.240	1.00	0.00	S
ATOM	9333	C	CYS	984	7.422	96.447	61.180	1.00	0.00	C
ATOM	9334	O	CYS	984	7.688	97.242	62.079	1.00	0.00	O
ATOM	9335	N	GLY	985	6.166	96.058	60.904	1.00	0.00	N
ATOM	9336	HN	GLY	985	5.986	95.490	60.076	1.00	0.00	H
ATOM	9337	CA	GLY	985	5.075	96.431	61.757	1.00	0.00	C
ATOM	9338	C	GLY	985	4.244	97.432	61.034	1.00	0.00	C
ATOM	9339	O	GLY	985	3.058	97.195	60.808	1.00	0.00	O
ATOM	9340	N	LYS	986	4.852	98.569	60.637	1.00	0.00	N
ATOM	9341	HN	LYS	986	5.841	98.716	60.840	1.00	0.00	H
ATOM	9342	CA	LYS	986	4.112	99.568	59.933	1.00	0.00	C
ATOM	9343	CB	LYS	986	4.941	100.821	59.631	1.00	0.00	C
ATOM	9344	CG	LYS	986	5.246	101.671	60.856	1.00	0.00	C
ATOM	9345	CD	LYS	986	6.398	102.648	60.635	1.00	0.00	C
ATOM	9346	CE	LYS	986	6.607	103.604	61.808	1.00	0.00	C
ATOM	9347	NZ	LYS	986	8.010	104.067	61.830	1.00	0.00	N
ATOM	9348	HZ1	LYS	986	8.150	104.705	62.613	1.00	0.00	H
ATOM	9349	HZ2	LYS	986	8.291	104.482	60.942	1.00	0.00	H
ATOM	9350	HZ3	LYS	986	8.671	103.290	61.846	1.00	0.00	H
ATOM	9351	C	LYS	986	3.796	98.989	58.605	1.00	0.00	C
ATOM	9352	O	LYS	986	2.686	99.121	58.095	1.00	0.00	O
ATOM	9353	N	SER	987	4.812	98.329	58.022	1.00	0.00	N
ATOM	9354	HN	SER	987	5.684	98.221	58.540	1.00	0.00	H
ATOM	9355	CA	SER	987	4.725	97.772	56.710	1.00	0.00	C
ATOM	9356	CB	SER	987	6.006	97.033	56.295	1.00	0.00	C
ATOM	9357	OG	SER	987	7.132	97.875	56.458	1.00	0.00	O
ATOM	9358	HG	SER	987	7.924	97.418	56.201	1.00	0.00	H
ATOM	9359	C	SER	987	3.678	96.714	56.716	1.00	0.00	C
ATOM	9360	O	SER	987	2.772	96.726	55.887	1.00	0.00	O
ATOM	9361	N	THR	988	3.766	95.789	57.693	1.00	0.00	N
ATOM	9362	HN	THR	988	4.468	95.906	58.423	1.00	0.00	H
ATOM	9363	CA	THR	988	2.902	94.646	57.736	1.00	0.00	C
ATOM	9364	CB	THR	988	3.166	93.747	58.912	1.00	0.00	C
ATOM	9365	OG1	THR	988	2.943	94.461	60.119	1.00	0.00	O
ATOM	9366	HG1	THR	988	2.048	94.779	60.151	1.00	0.00	H
ATOM	9367	CG2	THR	988	4.616	93.232	58.860	1.00	0.00	C
ATOM	9368	C	THR	988	1.487	95.100	57.842	1.00	0.00	C
ATOM	9369	O	THR	988	0.605	94.537	57.198	1.00	0.00	O
ATOM	9370	N	VAL	989	1.219	96.126	58.666	1.00	0.00	N
ATOM	9371	HN	VAL	989	1.968	96.591	59.179	1.00	0.00	H
ATOM	9372	CA	VAL	989	-0.142	96.553	58.809	1.00	0.00	C
ATOM	9373	CB	VAL	989	-0.300	97.708	59.757	1.00	0.00	C
ATOM	9374	CG1	VAL	989	-1.763	98.187	59.719	1.00	0.00	C
ATOM	9375	CG2	VAL	989	0.166	97.258	61.151	1.00	0.00	C
ATOM	9376	C	VAL	989	-0.657	97.008	57.481	1.00	0.00	C
ATOM	9377	O	VAL	989	-1.693	96.523	57.025	1.00	0.00	O
ATOM	9378	N	VAL	990	0.084	97.908	56.797	1.00	0.00	N
ATOM	9379	HN	VAL	990	0.998	98.198	57.145	1.00	0.00	H
ATOM	9380	CA	VAL	990	-0.435	98.451	55.571	1.00	0.00	C
ATOM	9381	CB	VAL	990	0.443	99.466	54.886	1.00	0.00	C
ATOM	9382	CG1	VAL	990	0.580	100.677	55.813	1.00	0.00	C
ATOM	9383	CG2	VAL	990	1.780	98.842	54.463	1.00	0.00	C
ATOM	9384	C	VAL	990	-0.666	97.336	54.624	1.00	0.00	C
ATOM	9385	O	VAL	990	-1.737	97.230	54.030	1.00	0.00	O
ATOM	9386	N	GLN	991	0.311	96.426	54.525	1.00	0.00	N
ATOM	9387	HN	GLN	991	1.137	96.498	55.119	1.00	0.00	H
ATOM	9388	CA	GLN	991	0.198	95.356	53.589	1.00	0.00	C
ATOM	9389	CB	GLN	991	1.400	94.404	53.660	1.00	0.00	C
ATOM	9390	CG	GLN	991	2.700	95.119	53.286	1.00	0.00	C
ATOM	9391	CD	GLN	991	3.865	94.155	53.412	1.00	0.00	C
ATOM	9392	OE1	GLN	991	4.637	93.978	52.473	1.00	0.00	O
ATOM	9393	NE2	GLN	991	4.013	93.530	54.610	1.00	0.00	N
ATOM	9394	1HE2	GLN	991	3.372	93.677	55.390	1.00	0.00	H
ATOM	9395	2HE2	GLN	991	4.796	92.882	54.695	1.00	0.00	H

ATOM	9396	C	GLN	991	-1.037	94.595	53.918	1.00	0.00	C
ATOM	9397	O	GLN	991	-1.830	94.317	53.028	1.00	0.00	O
ATOM	9398	N	LEU	992	-1.299	94.340	55.210	1.00	0.00	N
ATOM	9399	HN	LEU	992	-0.691	94.721	55.935	1.00	0.00	H
ATOM	9400	CA	LEU	992	-2.430	93.535	55.578	1.00	0.00	C
ATOM	9401	CB	LEU	992	-2.584	93.387	57.098	1.00	0.00	C
ATOM	9402	CG	LEU	992	-1.513	92.481	57.732	1.00	0.00	C
ATOM	9403	CD1	LEU	992	-1.704	92.387	59.252	1.00	0.00	C
ATOM	9404	CD2	LEU	992	-1.487	91.092	57.070	1.00	0.00	C
ATOM	9405	C	LEU	992	-3.693	94.141	55.042	1.00	0.00	C
ATOM	9406	O	LEU	992	-4.579	93.406	54.606	1.00	0.00	O
ATOM	9407	N	LEU	993	-3.834	95.482	55.069	1.00	0.00	N
ATOM	9408	HN	LEU	993	-3.102	96.067	55.471	1.00	0.00	H
ATOM	9409	CA	LEU	993	-5.028	96.083	54.526	1.00	0.00	C
ATOM	9410	CB	LEU	993	-5.152	97.597	54.774	1.00	0.00	C
ATOM	9411	CG	LEU	993	-6.363	98.255	54.074	1.00	0.00	C
ATOM	9412	CD1	LEU	993	-6.709	99.581	54.748	1.00	0.00	C
ATOM	9413	CD2	LEU	993	-6.113	98.515	52.575	1.00	0.00	C
ATOM	9414	C	LEU	993	-5.058	95.818	53.061	1.00	0.00	C
ATOM	9415	O	LEU	993	-6.114	95.604	52.467	1.00	0.00	O
ATOM	9416	N	GLU	994	-3.869	95.850	52.447	1.00	0.00	N
ATOM	9417	HN	GLU	994	-3.053	96.105	53.003	1.00	0.00	H
ATOM	9418	CA	GLU	994	-3.666	95.551	51.062	1.00	0.00	C
ATOM	9419	CB	GLU	994	-2.222	95.784	50.594	1.00	0.00	C
ATOM	9420	CG	GLU	994	-1.849	97.262	50.512	1.00	0.00	C
ATOM	9421	CD	GLU	994	-2.428	97.824	49.220	1.00	0.00	C
ATOM	9422	OE1	GLU	994	-3.665	97.704	49.011	1.00	0.00	O
ATOM	9423	OE2	GLU	994	-1.629	98.382	48.422	1.00	0.00	O
ATOM	9424	C	GLU	994	-3.953	94.093	50.901	1.00	0.00	C
ATOM	9425	O	GLU	994	-3.973	93.562	49.795	1.00	0.00	O
ATOM	9426	N	ARG	995	-4.049	93.392	52.038	1.00	0.00	N
ATOM	9427	HN	ARG	995	-3.930	93.903	52.913	1.00	0.00	H
ATOM	9428	CA	ARG	995	-4.303	91.991	52.131	1.00	0.00	C
ATOM	9429	CB	ARG	995	-5.742	91.530	51.822	1.00	0.00	C
ATOM	9430	CG	ARG	995	-6.193	91.672	50.375	1.00	0.00	C
ATOM	9431	CD	ARG	995	-7.519	90.952	50.118	1.00	0.00	C
ATOM	9432	NE	ARG	995	-7.351	89.539	50.572	1.00	0.00	N
ATOM	9433	HE	ARG	995	-6.638	89.316	51.267	1.00	0.00	H
ATOM	9434	CZ	ARG	995	-8.137	88.540	50.071	1.00	0.00	C
ATOM	9435	NH1	ARG	995	-9.079	88.804	49.120	1.00	0.00	N
ATOM	9436	1HH1	ARG	995	-9.199	89.758	48.779	1.00	0.00	H
ATOM	9437	2HH1	ARG	995	-9.666	88.058	48.746	1.00	0.00	H
ATOM	9438	NH2	ARG	995	-7.976	87.263	50.527	1.00	0.00	N
ATOM	9439	1HH2	ARG	995	-7.272	87.066	51.238	1.00	0.00	H
ATOM	9440	2HH2	ARG	995	-8.563	86.517	50.153	1.00	0.00	H
ATOM	9441	C	ARG	995	-3.343	91.276	51.239	1.00	0.00	C
ATOM	9442	O	ARG	995	-3.746	90.422	50.451	1.00	0.00	O
ATOM	9443	N	PHE	996	-2.050	91.673	51.291	1.00	0.00	N
ATOM	9444	HN	PHE	996	-1.791	92.487	51.849	1.00	0.00	H
ATOM	9445	CA	PHE	996	-1.044	90.957	50.567	1.00	0.00	C
ATOM	9446	CB	PHE	996	0.340	91.631	50.526	1.00	0.00	C
ATOM	9447	CG	PHE	996	0.254	92.864	49.696	1.00	0.00	C
ATOM	9448	CD1	PHE	996	-0.293	92.811	48.435	1.00	0.00	C
ATOM	9449	CD2	PHE	996	0.774	94.056	50.147	1.00	0.00	C
ATOM	9450	CE1	PHE	996	-0.365	93.938	47.653	1.00	0.00	C
ATOM	9451	CE2	PHE	996	0.707	95.187	49.368	1.00	0.00	C
ATOM	9452	CZ	PHE	996	0.133	95.130	48.120	1.00	0.00	C
ATOM	9453	C	PHE	996	-0.855	89.646	51.250	1.00	0.00	C
ATOM	9454	O	PHE	996	-0.858	88.586	50.629	1.00	0.00	O
ATOM	9455	N	TYR	997	-0.710	89.704	52.583	1.00	0.00	N
ATOM	9456	HN	TYR	997	-0.732	90.613	53.044	1.00	0.00	H
ATOM	9457	CA	TYR	997	-0.526	88.528	53.375	1.00	0.00	C
ATOM	9458	CB	TYR	997	0.608	88.633	54.404	1.00	0.00	C
ATOM	9459	CG	TYR	997	1.863	89.105	53.759	1.00	0.00	C
ATOM	9460	CD1	TYR	997	2.041	90.453	53.558	1.00	0.00	C
ATOM	9461	CD2	TYR	997	2.857	88.232	53.378	1.00	0.00	C
ATOM	9462	CE1	TYR	997	3.190	90.932	52.981	1.00	0.00	C
ATOM	9463	CE2	TYR	997	4.011	88.707	52.800	1.00	0.00	C
ATOM	9464	CZ	TYR	997	4.177	90.058	52.601	1.00	0.00	C
ATOM	9465	OH	TYR	997	5.359	90.551	52.011	1.00	0.00	O
ATOM	9466	HH	TYR	997	5.474	91.484	51.874	1.00	0.00	H
ATOM	9467	C	TYR	997	-1.756	88.489	54.219	1.00	0.00	C
ATOM	9468	O	TYR	997	-2.224	89.525	54.688	1.00	0.00	O
ATOM	9469	N	ASP	998	-2.335	87.296	54.426	1.00	0.00	N



ATOM	9470	HN	ASP	998	-1.934	86.445	54.032	1.00	0.00	H
ATOM	9471	CA	ASP	998	-3.533	87.248	55.215	1.00	0.00	C
ATOM	9472	CB	ASP	998	-4.546	86.220	54.687	1.00	0.00	C
ATOM	9473	CG	ASP	998	-5.132	86.802	53.405	1.00	0.00	C
ATOM	9474	OD1	ASP	998	-5.758	87.892	53.500	1.00	0.00	O
ATOM	9475	OD2	ASP	998	-4.957	86.186	52.320	1.00	0.00	O
ATOM	9476	C	ASP	998	-3.167	86.913	56.621	1.00	0.00	C
ATOM	9477	O	ASP	998	-2.390	85.995	56.889	1.00	0.00	O
ATOM	9478	N	PRO	999	-3.745	87.659	57.524	1.00	0.00	N
ATOM	9479	CA	PRO	999	-3.454	87.528	58.926	1.00	0.00	C
ATOM	9480	CD	PRO	999	-5.061	88.233	57.290	1.00	0.00	C
ATOM	9481	CB	PRO	999	-4.466	88.427	59.631	1.00	0.00	C
ATOM	9482	CG	PRO	999	-5.682	88.390	58.687	1.00	0.00	C
ATOM	9483	C	PRO	999	-3.594	86.103	59.352	1.00	0.00	C
ATOM	9484	O	PRO	999	-4.509	85.422	58.895	1.00	0.00	O
ATOM	9485	N	LEU	1000	-2.683	85.635	60.226	1.00	0.00	N
ATOM	9486	HN	LEU	1000	-1.941	86.258	60.546	1.00	0.00	H
ATOM	9487	CA	LEU	1000	-2.721	84.291	60.721	1.00	0.00	C
ATOM	9488	CB	LEU	1000	-1.562	83.972	61.682	1.00	0.00	C
ATOM	9489	CG	LEU	1000	-0.179	83.904	61.013	1.00	0.00	C
ATOM	9490	CD1	LEU	1000	0.913	83.581	62.046	1.00	0.00	C
ATOM	9491	CD2	LEU	1000	-0.180	82.908	59.842	1.00	0.00	C
ATOM	9492	C	LEU	1000	-3.988	84.125	61.498	1.00	0.00	C
ATOM	9493	O	LEU	1000	-4.609	83.067	61.450	1.00	0.00	O
ATOM	9494	N	ALA	1001	-4.399	85.157	62.264	1.00	0.00	N
ATOM	9495	HN	ALA	1001	-3.857	86.020	62.297	1.00	0.00	H
ATOM	9496	CA	ALA	1001	-5.608	85.031	63.034	1.00	0.00	C
ATOM	9497	CB	ALA	1001	-5.373	84.508	64.459	1.00	0.00	C
ATOM	9498	C	ALA	1001	-6.225	86.390	63.190	1.00	0.00	C
ATOM	9499	O	ALA	1001	-5.526	87.401	63.218	1.00	0.00	O
ATOM	9500	N	GLY	1002	-7.568	86.442	63.332	1.00	0.00	N
ATOM	9501	HN	GLY	1002	-8.111	85.579	63.318	1.00	0.00	H
ATOM	9502	CA	GLY	1002	-8.240	87.703	63.503	1.00	0.00	C
ATOM	9503	C	GLY	1002	-8.729	88.155	62.159	1.00	0.00	C
ATOM	9504	O	GLY	1002	-8.600	87.422	61.181	1.00	0.00	O
ATOM	9505	N	LYS	1003	-9.327	89.370	62.074	1.00	0.00	N
ATOM	9506	HN	LYS	1003	-9.405	89.966	62.898	1.00	0.00	H
ATOM	9507	CA	LYS	1003	-9.851	89.809	60.806	1.00	0.00	C
ATOM	9508	CB	LYS	1003	-11.281	89.306	60.522	1.00	0.00	C
ATOM	9509	CG	LYS	1003	-12.335	89.767	61.534	1.00	0.00	C
ATOM	9510	CD	LYS	1003	-12.054	89.302	62.965	1.00	0.00	C
ATOM	9511	CE	LYS	1003	-13.191	89.584	63.952	1.00	0.00	C
ATOM	9512	NZ	LYS	1003	-13.985	88.355	64.175	1.00	0.00	N
ATOM	9513	HZ1	LYS	1003	-14.742	88.543	64.832	1.00	0.00	H
ATOM	9514	HZ2	LYS	1003	-13.403	87.573	64.476	1.00	0.00	H
ATOM	9515	HZ3	LYS	1003	-14.328	87.958	63.300	1.00	0.00	H
ATOM	9516	C	LYS	1003	-9.861	91.312	60.708	1.00	0.00	C
ATOM	9517	O	LYS	1003	-9.447	92.023	61.620	1.00	0.00	O
ATOM	9518	N	VAL	1004	-10.317	91.848	59.553	1.00	0.00	N
ATOM	9519	HN	VAL	1004	-10.644	91.238	58.803	1.00	0.00	H
ATOM	9520	CA	VAL	1004	-10.343	93.278	59.378	1.00	0.00	C
ATOM	9521	CB	VAL	1004	-9.047	93.773	58.752	1.00	0.00	C
ATOM	9522	CG1	VAL	1004	-8.573	92.726	57.748	1.00	0.00	C
ATOM	9523	CG2	VAL	1004	-9.192	95.162	58.109	1.00	0.00	C
ATOM	9524	C	VAL	1004	-11.593	93.678	58.636	1.00	0.00	C
ATOM	9525	O	VAL	1004	-12.336	92.818	58.183	1.00	0.00	O
ATOM	9526	N	LEU	1005	-11.943	94.984	58.605	1.00	0.00	N
ATOM	9527	HN	LEU	1005	-11.387	95.659	59.130	1.00	0.00	H
ATOM	9528	CA	LEU	1005	-13.083	95.448	57.849	1.00	0.00	C
ATOM	9529	CB	LEU	1005	-14.412	95.512	58.627	1.00	0.00	C
ATOM	9530	CG	LEU	1005	-14.954	94.149	59.093	1.00	0.00	C
ATOM	9531	CD1	LEU	1005	-14.088	93.558	60.215	1.00	0.00	C
ATOM	9532	CD2	LEU	1005	-16.445	94.239	59.459	1.00	0.00	C
ATOM	9533	C	LEU	1005	-12.786	96.846	57.398	1.00	0.00	C
ATOM	9534	O	LEU	1005	-12.820	97.792	58.182	1.00	0.00	O
ATOM	9535	N	LEU	1006	-12.559	97.018	56.087	1.00	0.00	N
ATOM	9536	HN	LEU	1006	-12.636	96.214	55.465	1.00	0.00	H
ATOM	9537	CA	LEU	1006	-12.212	98.292	55.530	1.00	0.00	C
ATOM	9538	CB	LEU	1006	-11.828	98.247	54.039	1.00	0.00	C
ATOM	9539	CG	LEU	1006	-13.013	98.056	53.083	1.00	0.00	C
ATOM	9540	CD1	LEU	1006	-12.529	97.875	51.633	1.00	0.00	C
ATOM	9541	CD2	LEU	1006	-13.955	96.944	53.569	1.00	0.00	C
ATOM	9542	C	LEU	1006	-13.375	99.192	55.734	1.00	0.00	C
ATOM	9543	O	LEU	1006	-13.291	100.408	55.570	1.00	0.00	O

ATOM	9544	N	ASP	1007	-14.538	98.589	55.999	1.00	0.00	N
ATOM	9545	HN	ASP	1007	-14.594	97.571	56.030	1.00	0.00	H
ATOM	9546	CA	ASP	1007	-15.697	99.378	56.237	1.00	0.00	C
ATOM	9547	CB	ASP	1007	-16.335	99.819	54.909	1.00	0.00	C
ATOM	9548	CG	ASP	1007	-17.520	100.730	55.181	1.00	0.00	C
ATOM	9549	OD1	ASP	1007	-17.316	101.799	55.813	1.00	0.00	O
ATOM	9550	OD2	ASP	1007	-18.649	100.359	54.763	1.00	0.00	O
ATOM	9551	C	ASP	1007	-16.667	98.476	56.923	1.00	0.00	C
ATOM	9552	O	ASP	1007	-16.865	98.536	58.134	1.00	0.00	O
ATOM	9553	N	GLY	1008	-17.411	97.725	56.097	1.00	0.00	N
ATOM	9554	HN	GLY	1008	-17.232	97.818	55.097	1.00	0.00	H
ATOM	9555	CA	GLY	1008	-18.434	96.804	56.494	1.00	0.00	C
ATOM	9556	C	GLY	1008	-18.100	95.389	56.860	1.00	0.00	C
ATOM	9557	O	GLY	1008	-18.722	94.851	57.775	1.00	0.00	O
ATOM	9558	N	LYS	1009	-17.196	94.697	56.124	1.00	0.00	N
ATOM	9559	HN	LYS	1009	-16.592	95.141	55.432	1.00	0.00	H
ATOM	9560	CA	LYS	1009	-17.159	93.284	56.399	1.00	0.00	C
ATOM	9561	CB	LYS	1009	-18.181	92.470	55.584	1.00	0.00	C
ATOM	9562	CG	LYS	1009	-19.617	92.994	55.643	1.00	0.00	C
ATOM	9563	CD	LYS	1009	-19.832	94.238	54.777	1.00	0.00	C
ATOM	9564	CE	LYS	1009	-21.221	94.861	54.913	1.00	0.00	C
ATOM	9565	NZ	LYS	1009	-21.187	96.252	54.409	1.00	0.00	N
ATOM	9566	HZ1	LYS	1009	-22.114	96.668	54.500	1.00	0.00	H
ATOM	9567	HZ2	LYS	1009	-20.830	96.308	53.455	1.00	0.00	H
ATOM	9568	HZ3	LYS	1009	-20.467	96.811	54.867	1.00	0.00	H
ATOM	9569	C	LYS	1009	-15.838	92.712	56.025	1.00	0.00	C
ATOM	9570	O	LYS	1009	-15.232	93.102	55.026	1.00	0.00	O
ATOM	9571	N	GLU	1010	-15.475	91.658	56.783	1.00	0.00	N
ATOM	9572	HN	GLU	1010	-16.188	91.315	57.426	1.00	0.00	H
ATOM	9573	CA	GLU	1010	-14.233	90.953	56.813	1.00	0.00	C
ATOM	9574	CB	GLU	1010	-14.383	89.426	56.915	1.00	0.00	C
ATOM	9575	CG	GLU	1010	-15.047	88.926	58.193	1.00	0.00	C
ATOM	9576	CD	GLU	1010	-15.094	87.409	58.096	1.00	0.00	C
ATOM	9577	OE1	GLU	1010	-14.350	86.844	57.249	1.00	0.00	O
ATOM	9578	OE2	GLU	1010	-15.873	86.793	58.871	1.00	0.00	O
ATOM	9579	C	GLU	1010	-13.412	91.172	55.607	1.00	0.00	C
ATOM	9580	O	GLU	1010	-13.673	90.626	54.536	1.00	0.00	O
ATOM	9581	N	ILE	1011	-12.328	91.958	55.772	1.00	0.00	N
ATOM	9582	HN	ILE	1011	-12.220	92.541	56.602	1.00	0.00	H
ATOM	9583	CA	ILE	1011	-11.352	91.945	54.758	1.00	0.00	C
ATOM	9584	CB	ILE	1011	-10.711	93.248	54.365	1.00	0.00	C
ATOM	9585	CG1	ILE	1011	-9.985	93.981	55.479	1.00	0.00	C
ATOM	9586	CG2	ILE	1011	-11.799	94.102	53.710	1.00	0.00	C
ATOM	9587	CD1	ILE	1011	-9.335	95.230	54.897	1.00	0.00	C
ATOM	9588	C	ILE	1011	-10.420	90.875	55.193	1.00	0.00	C
ATOM	9589	O	ILE	1011	-9.328	91.095	55.704	1.00	0.00	O
ATOM	9590	N	LYS	1012	-11.083	89.727	55.395	1.00	0.00	N
ATOM	9591	HN	LYS	1012	-12.057	89.856	55.668	1.00	0.00	H
ATOM	9592	CA	LYS	1012	-10.692	88.378	55.302	1.00	0.00	C
ATOM	9593	CB	LYS	1012	-11.442	87.519	56.326	1.00	0.00	C
ATOM	9594	CG	LYS	1012	-11.238	86.018	56.143	1.00	0.00	C
ATOM	9595	CD	LYS	1012	-9.826	85.536	56.476	1.00	0.00	C
ATOM	9596	CE	LYS	1012	-9.587	85.321	57.973	1.00	0.00	C
ATOM	9597	NZ	LYS	1012	-8.297	84.628	58.188	1.00	0.00	N
ATOM	9598	HZ1	LYS	1012	-8.138	84.485	59.185	1.00	0.00	H
ATOM	9599	HZ2	LYS	1012	-7.521	85.120	57.744	1.00	0.00	H
ATOM	9600	HZ3	LYS	1012	-8.241	83.755	57.663	1.00	0.00	H
ATOM	9601	C	LYS	1012	-11.237	88.028	53.961	1.00	0.00	C
ATOM	9602	O	LYS	1012	-10.547	87.582	53.046	1.00	0.00	O
ATOM	9603	N	ARG	1013	-12.558	88.335	53.831	1.00	0.00	N
ATOM	9604	HN	ARG	1013	-13.045	88.778	54.610	1.00	0.00	H
ATOM	9605	CA	ARG	1013	-13.278	88.051	52.628	1.00	0.00	C
ATOM	9606	CB	ARG	1013	-14.256	86.858	52.690	1.00	0.00	C
ATOM	9607	CG	ARG	1013	-15.417	86.940	53.686	1.00	0.00	C
ATOM	9608	CD	ARG	1013	-16.486	85.881	53.381	1.00	0.00	C
ATOM	9609	NE	ARG	1013	-17.397	85.753	54.554	1.00	0.00	N
ATOM	9610	HE	ARG	1013	-17.225	86.297	55.399	1.00	0.00	H
ATOM	9611	CZ	ARG	1013	-18.464	84.902	54.489	1.00	0.00	C
ATOM	9612	NH1	ARG	1013	-18.769	84.275	53.317	1.00	0.00	N
ATOM	9613	1HH1	ARG	1013	-19.566	83.640	53.268	1.00	0.00	H
ATOM	9614	2HH1	ARG	1013	-18.202	84.447	52.487	1.00	0.00	H
ATOM	9615	NH2	ARG	1013	-19.223	84.672	55.601	1.00	0.00	N
ATOM	9616	1HH2	ARG	1013	-20.020	84.037	55.552	1.00	0.00	H
ATOM	9617	2HH2	ARG	1013	-18.995	85.141	56.478	1.00	0.00	H

ATOM	9618	C	ARG	1013	-14.041	89.257	52.194	1.00	0.00	C
ATOM	9619	O	ARG	1013	-15.131	89.560	52.680	1.00	0.00	O
ATOM	9620	N	LEU	1014	-13.424	89.976	51.245	1.00	0.00	N
ATOM	9621	HN	LEU	1014	-12.493	89.656	50.978	1.00	0.00	H
ATOM	9622	CA	LEU	1014	-13.907	91.134	50.560	1.00	0.00	C
ATOM	9623	CB	LEU	1014	-13.392	92.442	51.185	1.00	0.00	C
ATOM	9624	CG	LEU	1014	-13.891	93.714	50.484	1.00	0.00	C
ATOM	9625	CD1	LEU	1014	-15.424	93.801	50.540	1.00	0.00	C
ATOM	9626	CD2	LEU	1014	-13.210	94.966	51.062	1.00	0.00	C
ATOM	9627	C	LEU	1014	-13.246	90.963	49.228	1.00	0.00	C
ATOM	9628	O	LEU	1014	-12.138	90.432	49.187	1.00	0.00	O
ATOM	9629	N	ASN	1015	-13.879	91.372	48.106	1.00	0.00	N
ATOM	9630	HN	ASN	1015	-14.783	91.843	48.137	1.00	0.00	H
ATOM	9631	CA	ASN	1015	-13.201	91.104	46.863	1.00	0.00	C
ATOM	9632	CB	ASN	1015	-13.981	91.488	45.597	1.00	0.00	C
ATOM	9633	CG	ASN	1015	-13.059	91.199	44.421	1.00	0.00	C
ATOM	9634	OD1	ASN	1015	-12.344	92.087	43.958	1.00	0.00	O
ATOM	9635	ND2	ASN	1015	-13.050	89.926	43.942	1.00	0.00	N
ATOM	9636	1HD2	ASN	1015	-13.643	89.190	44.326	1.00	0.00	H
ATOM	9637	2HD2	ASN	1015	-12.432	89.732	43.154	1.00	0.00	H
ATOM	9638	C	ASN	1015	-11.905	91.837	46.841	1.00	0.00	C
ATOM	9639	O	ASN	1015	-11.863	93.063	46.818	1.00	0.00	O
ATOM	9640	N	VAL	1016	-10.805	91.072	46.749	1.00	0.00	N
ATOM	9641	HN	VAL	1016	-10.916	90.068	46.608	1.00	0.00	H
ATOM	9642	CA	VAL	1016	-9.481	91.614	46.842	1.00	0.00	C
ATOM	9643	CB	VAL	1016	-8.427	90.554	46.658	1.00	0.00	C
ATOM	9644	CG1	VAL	1016	-8.695	89.823	45.331	1.00	0.00	C
ATOM	9645	CG2	VAL	1016	-7.037	91.210	46.728	1.00	0.00	C
ATOM	9646	C	VAL	1016	-9.267	92.669	45.802	1.00	0.00	C
ATOM	9647	O	VAL	1016	-8.769	93.750	46.115	1.00	0.00	O
ATOM	9648	N	GLN	1017	-9.677	92.411	44.546	1.00	0.00	N
ATOM	9649	HN	GLN	1017	-10.172	91.544	44.337	1.00	0.00	H
ATOM	9650	CA	GLN	1017	-9.414	93.362	43.500	1.00	0.00	C
ATOM	9651	CB	GLN	1017	-10.019	92.945	42.150	1.00	0.00	C
ATOM	9652	CG	GLN	1017	-9.395	91.683	41.556	1.00	0.00	C
ATOM	9653	CD	GLN	1017	-8.062	92.078	40.942	1.00	0.00	C
ATOM	9654	OE1	GLN	1017	-7.678	93.246	40.964	1.00	0.00	O
ATOM	9655	NE2	GLN	1017	-7.338	91.079	40.369	1.00	0.00	N
ATOM	9656	1HE2	GLN	1017	-7.657	90.110	40.351	1.00	0.00	H
ATOM	9657	2HE2	GLN	1017	-6.443	91.344	39.957	1.00	0.00	H
ATOM	9658	C	GLN	1017	-10.054	94.658	43.869	1.00	0.00	C
ATOM	9659	O	GLN	1017	-9.466	95.722	43.684	1.00	0.00	O
ATOM	9660	N	TRP	1018	-11.299	94.608	44.369	1.00	0.00	N
ATOM	9661	HN	TRP	1018	-11.775	93.713	44.478	1.00	0.00	H
ATOM	9662	CA	TRP	1018	-11.951	95.826	44.748	1.00	0.00	C
ATOM	9663	CB	TRP	1018	-13.460	95.696	44.963	1.00	0.00	C
ATOM	9664	CG	TRP	1018	-14.026	97.023	45.380	1.00	0.00	C
ATOM	9665	CD2	TRP	1018	-14.255	97.390	46.746	1.00	0.00	C
ATOM	9666	CD1	TRP	1018	-14.377	98.100	44.622	1.00	0.00	C
ATOM	9667	NE1	TRP	1018	-14.792	99.126	45.434	1.00	0.00	N
ATOM	9668	HE1	TRP	1018	-15.097	100.048	45.121	1.00	0.00	H
ATOM	9669	CE2	TRP	1018	-14.727	98.700	46.744	1.00	0.00	C
ATOM	9670	CE3	TRP	1018	-14.071	96.695	47.906	1.00	0.00	C
ATOM	9671	CZ2	TRP	1018	-15.030	99.341	47.909	1.00	0.00	C
ATOM	9672	CZ3	TRP	1018	-14.389	97.337	49.080	1.00	0.00	C
ATOM	9673	CH2	TRP	1018	-14.859	98.634	49.080	1.00	0.00	C
ATOM	9674	C	TRP	1018	-11.357	96.393	46.001	1.00	0.00	C
ATOM	9675	O	TRP	1018	-11.241	97.610	46.146	1.00	0.00	O
ATOM	9676	N	LEU	1019	-10.970	95.524	46.953	1.00	0.00	N
ATOM	9677	HN	LEU	1019	-11.056	94.521	46.790	1.00	0.00	H
ATOM	9678	CA	LEU	1019	-10.436	96.004	48.200	1.00	0.00	C
ATOM	9679	CB	LEU	1019	-9.984	94.848	49.114	1.00	0.00	C
ATOM	9680	CG	LEU	1019	-9.597	95.228	50.561	1.00	0.00	C
ATOM	9681	CD1	LEU	1019	-9.176	93.978	51.339	1.00	0.00	C
ATOM	9682	CD2	LEU	1019	-8.521	96.320	50.645	1.00	0.00	C
ATOM	9683	C	LEU	1019	-9.249	96.850	47.848	1.00	0.00	C
ATOM	9684	O	LEU	1019	-9.054	97.932	48.397	1.00	0.00	O
ATOM	9685	N	ARG	1020	-8.442	96.377	46.890	1.00	0.00	N
ATOM	9686	HN	ARG	1020	-8.659	95.468	46.481	1.00	0.00	H
ATOM	9687	CA	ARG	1020	-7.286	97.082	46.408	1.00	0.00	C
ATOM	9688	CB	ARG	1020	-6.341	96.234	45.542	1.00	0.00	C
ATOM	9689	CG	ARG	1020	-5.586	95.177	46.349	1.00	0.00	C
ATOM	9690	CD	ARG	1020	-4.536	94.410	45.545	1.00	0.00	C
ATOM	9691	NE	ARG	1020	-3.938	93.390	46.452	1.00	0.00	N

ATOM	9692	HE	ARG	1020	-3.829	93.584	47.448	1.00	0.00	H
ATOM	9693	CZ	ARG	1020	-3.538	92.194	45.933	1.00	0.00	C
ATOM	9694	NH1	ARG	1020	-3.662	91.967	44.593	1.00	0.00	N
ATOM	9695	1HH1	ARG	1020	-3.363	91.072	44.205	1.00	0.00	H
ATOM	9696	2HH1	ARG	1020	-4.044	92.690	43.984	1.00	0.00	H
ATOM	9697	NH2	ARG	1020	-3.026	91.226	46.749	1.00	0.00	N
ATOM	9698	1HH2	ARG	1020	-2.727	90.331	46.361	1.00	0.00	H
ATOM	9699	2HH2	ARG	1020	-2.933	91.396	47.751	1.00	0.00	H
ATOM	9700	C	ARG	1020	-7.708	98.252	45.588	1.00	0.00	C
ATOM	9701	O	ARG	1020	-6.895	99.115	45.278	1.00	0.00	O
ATOM	9702	N	ALA	1021	-8.967	98.283	45.132	1.00	0.00	N
ATOM	9703	HN	ALA	1021	-9.611	97.523	45.354	1.00	0.00	H
ATOM	9704	CA	ALA	1021	-9.406	99.386	44.332	1.00	0.00	C
ATOM	9705	CB	ALA	1021	-10.902	99.321	43.980	1.00	0.00	C
ATOM	9706	C	ALA	1021	-9.174	100.625	45.142	1.00	0.00	C
ATOM	9707	O	ALA	1021	-8.716	101.640	44.618	1.00	0.00	O
ATOM	9708	N	HIS	1022	-9.458	100.571	46.456	1.00	0.00	N
ATOM	9709	HN	HIS	1022	-9.821	99.714	46.874	1.00	0.00	H
ATOM	9710	CA	HIS	1022	-9.241	101.740	47.258	1.00	0.00	C
ATOM	9711	ND1	HIS	1022	-12.410	103.257	47.309	1.00	0.00	N
ATOM	9712	HD1	HIS	1022	-12.132	104.187	47.623	1.00	0.00	H
ATOM	9713	CG	HIS	1022	-11.722	102.081	47.513	1.00	0.00	C
ATOM	9714	CB	HIS	1022	-10.407	101.974	48.234	1.00	0.00	C
ATOM	9715	NE2	HIS	1022	-13.609	101.646	46.351	1.00	0.00	N
ATOM	9716	HE2	HIS	1022	-14.345	101.154	45.845	1.00	0.00	H
ATOM	9717	CD2	HIS	1022	-12.469	101.109	46.922	1.00	0.00	C
ATOM	9718	CE1	HIS	1022	-13.529	102.939	46.609	1.00	0.00	C
ATOM	9719	C	HIS	1022	-7.979	101.552	48.050	1.00	0.00	C
ATOM	9720	O	HIS	1022	-7.904	100.707	48.941	1.00	0.00	O
ATOM	9721	N	LEU	1023	-6.924	102.326	47.717	1.00	0.00	N
ATOM	9722	HN	LEU	1023	-6.996	102.981	46.938	1.00	0.00	H
ATOM	9723	CA	LEU	1023	-5.702	102.225	48.462	1.00	0.00	C
ATOM	9724	CB	LEU	1023	-4.981	100.871	48.234	1.00	0.00	C
ATOM	9725	CG	LEU	1023	-4.389	100.630	46.825	1.00	0.00	C
ATOM	9726	CD1	LEU	1023	-4.028	99.152	46.605	1.00	0.00	C
ATOM	9727	CD2	LEU	1023	-5.255	101.244	45.713	1.00	0.00	C
ATOM	9728	C	LEU	1023	-4.811	103.370	48.063	1.00	0.00	C
ATOM	9729	O	LEU	1023	-4.096	103.324	47.064	1.00	0.00	O
ATOM	9730	N	GLY	1024	-4.794	104.453	48.856	1.00	0.00	N
ATOM	9731	HN	GLY	1024	-5.361	104.506	49.702	1.00	0.00	H
ATOM	9732	CA	GLY	1024	-3.939	105.530	48.454	1.00	0.00	C
ATOM	9733	C	GLY	1024	-2.598	105.204	49.010	1.00	0.00	C
ATOM	9734	O	GLY	1024	-2.196	105.733	50.041	1.00	0.00	O
ATOM	9735	N	ILE	1025	-1.851	104.346	48.294	1.00	0.00	N
ATOM	9736	HN	ILE	1025	-2.205	104.017	47.396	1.00	0.00	H
ATOM	9737	CA	ILE	1025	-0.577	103.878	48.748	1.00	0.00	C
ATOM	9738	CB	ILE	1025	-0.356	102.420	48.456	1.00	0.00	C
ATOM	9739	CG1	ILE	1025	1.036	101.968	48.935	1.00	0.00	C
ATOM	9740	CG2	ILE	1025	-0.616	102.191	46.958	1.00	0.00	C
ATOM	9741	CD1	ILE	1025	1.230	102.007	50.450	1.00	0.00	C
ATOM	9742	C	ILE	1025	0.519	104.646	48.085	1.00	0.00	C
ATOM	9743	O	ILE	1025	0.456	104.970	46.900	1.00	0.00	O
ATOM	9744	N	VAL	1026	1.527	105.022	48.896	1.00	0.00	N
ATOM	9745	HN	VAL	1026	1.432	104.843	49.896	1.00	0.00	H
ATOM	9746	CA	VAL	1026	2.725	105.659	48.434	1.00	0.00	C
ATOM	9747	CB	VAL	1026	2.630	107.156	48.425	1.00	0.00	C
ATOM	9748	CG1	VAL	1026	3.982	107.727	47.967	1.00	0.00	C
ATOM	9749	CG2	VAL	1026	1.440	107.578	47.544	1.00	0.00	C
ATOM	9750	C	VAL	1026	3.758	105.282	49.454	1.00	0.00	C
ATOM	9751	O	VAL	1026	3.511	105.428	50.651	1.00	0.00	O
ATOM	9752	N	SER	1027	4.951	104.821	49.019	1.00	0.00	N
ATOM	9753	HN	SER	1027	5.156	104.806	48.020	1.00	0.00	H
ATOM	9754	CA	SER	1027	5.934	104.350	49.960	1.00	0.00	C
ATOM	9755	CB	SER	1027	6.253	102.849	49.856	1.00	0.00	C
ATOM	9756	OG	SER	1027	5.157	102.072	50.304	1.00	0.00	O
ATOM	9757	HG	SER	1027	5.354	101.145	50.240	1.00	0.00	H
ATOM	9758	C	SER	1027	7.243	105.031	49.744	1.00	0.00	C
ATOM	9759	O	SER	1027	7.402	105.880	48.867	1.00	0.00	O
ATOM	9760	N	GLN	1028	8.239	104.610	50.552	1.00	0.00	N
ATOM	9761	HN	GLN	1028	8.081	103.810	51.165	1.00	0.00	H
ATOM	9762	CA	GLN	1028	9.509	105.262	50.566	1.00	0.00	C
ATOM	9763	CB	GLN	1028	10.494	104.531	51.485	1.00	0.00	C
ATOM	9764	CG	GLN	1028	9.999	104.530	52.933	1.00	0.00	C
ATOM	9765	CD	GLN	1028	10.823	103.537	53.734	1.00	0.00	C

ATOM	9766	OE1	GLN	1028	11.852	103.885	54.308	1.00	0.00	O
ATOM	9767	NE2	GLN	1028	10.358	102.260	53.781	1.00	0.00	N
ATOM	9768	1HE2	GLN	1028	10.911	101.593	54.319	1.00	0.00	H
ATOM	9769	2HE2	GLN	1028	9.504	101.971	53.304	1.00	0.00	H
ATOM	9770	C	GLN	1028	10.070	105.288	49.183	1.00	0.00	C
ATOM	9771	O	GLN	1028	10.264	106.367	48.624	1.00	0.00	O
ATOM	9772	N	GLU	1029	10.259	104.117	48.548	1.00	0.00	N
ATOM	9773	HN	GLU	1029	10.012	103.234	48.995	1.00	0.00	H
ATOM	9774	CA	GLU	1029	10.816	104.141	47.227	1.00	0.00	C
ATOM	9775	CB	GLU	1029	11.760	102.960	46.934	1.00	0.00	C
ATOM	9776	CG	GLU	1029	12.358	102.983	45.524	1.00	0.00	C
ATOM	9777	CD	GLU	1029	13.436	104.054	45.491	1.00	0.00	C
ATOM	9778	OE1	GLU	1029	13.752	104.597	46.581	1.00	0.00	O
ATOM	9779	OE2	GLU	1029	13.953	104.347	44.380	1.00	0.00	O
ATOM	9780	C	GLU	1029	9.675	104.050	46.269	1.00	0.00	C
ATOM	9781	O	GLU	1029	8.999	103.030	46.161	1.00	0.00	O
ATOM	9782	N	PRO	1030	9.468	105.122	45.566	1.00	0.00	N
ATOM	9783	CA	PRO	1030	8.436	105.248	44.576	1.00	0.00	C
ATOM	9784	CD	PRO	1030	10.177	106.367	45.800	1.00	0.00	C
ATOM	9785	CB	PRO	1030	8.330	106.743	44.286	1.00	0.00	C
ATOM	9786	CG	PRO	1030	9.719	107.291	44.661	1.00	0.00	C
ATOM	9787	C	PRO	1030	8.923	104.495	43.384	1.00	0.00	C
ATOM	9788	O	PRO	1030	9.885	103.737	43.511	1.00	0.00	O
ATOM	9789	N	ILE	1031	8.196	104.581	42.256	1.00	0.00	N
ATOM	9790	HN	ILE	1031	7.303	105.073	42.262	1.00	0.00	H
ATOM	9791	CA	ILE	1031	8.676	103.981	41.043	1.00	0.00	C
ATOM	9792	CB	ILE	1031	8.943	102.512	41.179	1.00	0.00	C
ATOM	9793	CG1	ILE	1031	9.516	101.943	39.870	1.00	0.00	C
ATOM	9794	CG2	ILE	1031	7.639	101.847	41.648	1.00	0.00	C
ATOM	9795	CD1	ILE	1031	10.843	102.580	39.458	1.00	0.00	C
ATOM	9796	C	ILE	1031	7.650	104.176	39.972	1.00	0.00	C
ATOM	9797	O	ILE	1031	6.486	104.449	40.260	1.00	0.00	O
ATOM	9798	N	LEU	1032	8.063	104.051	38.692	1.00	0.00	N
ATOM	9799	HN	LEU	1032	9.046	103.870	38.491	1.00	0.00	H
ATOM	9800	CA	LEU	1032	7.122	104.172	37.613	1.00	0.00	C
ATOM	9801	CB	LEU	1032	7.037	105.590	37.015	1.00	0.00	C
ATOM	9802	CG	LEU	1032	6.840	106.740	38.014	1.00	0.00	C
ATOM	9803	CD1	LEU	1032	8.079	106.897	38.908	1.00	0.00	C
ATOM	9804	CD2	LEU	1032	6.482	108.050	37.291	1.00	0.00	C
ATOM	9805	C	LEU	1032	7.656	103.381	36.458	1.00	0.00	C
ATOM	9806	O	LEU	1032	8.849	103.434	36.163	1.00	0.00	O
ATOM	9807	N	PHE	1033	6.774	102.650	35.752	1.00	0.00	N
ATOM	9808	HN	PHE	1033	5.809	102.589	36.077	1.00	0.00	H
ATOM	9809	CA	PHE	1033	7.152	101.954	34.556	1.00	0.00	C
ATOM	9810	CB	PHE	1033	6.106	100.905	34.140	1.00	0.00	C
ATOM	9811	CG	PHE	1033	6.723	100.052	33.094	1.00	0.00	C
ATOM	9812	CD1	PHE	1033	7.903	99.402	33.367	1.00	0.00	C
ATOM	9813	CD2	PHE	1033	6.111	99.861	31.878	1.00	0.00	C
ATOM	9814	CE1	PHE	1033	8.498	98.597	32.426	1.00	0.00	C
ATOM	9815	CE2	PHE	1033	6.703	99.055	30.936	1.00	0.00	C
ATOM	9816	CZ	PHE	1033	7.896	98.426	31.203	1.00	0.00	C
ATOM	9817	C	PHE	1033	7.257	103.047	33.523	1.00	0.00	C
ATOM	9818	O	PHE	1033	6.697	104.125	33.706	1.00	0.00	O
ATOM	9819	N	ASP	1034	7.925	102.747	32.394	1.00	0.00	N
ATOM	9820	HN	ASP	1034	8.123	101.752	32.292	1.00	0.00	H
ATOM	9821	CA	ASP	1034	8.419	103.545	31.298	1.00	0.00	C
ATOM	9822	CB	ASP	1034	9.167	102.691	30.267	1.00	0.00	C
ATOM	9823	CG	ASP	1034	10.306	101.998	30.989	1.00	0.00	C
ATOM	9824	OD1	ASP	1034	10.860	102.610	31.937	1.00	0.00	O
ATOM	9825	OD2	ASP	1034	10.631	100.842	30.609	1.00	0.00	O
ATOM	9826	C	ASP	1034	7.385	104.297	30.513	1.00	0.00	C
ATOM	9827	O	ASP	1034	7.707	104.776	29.427	1.00	0.00	O
ATOM	9828	N	CYS	1035	6.104	104.297	30.908	1.00	0.00	N
ATOM	9829	HN	CYS	1035	5.807	103.764	31.725	1.00	0.00	H
ATOM	9830	CA	CYS	1035	5.159	105.073	30.144	1.00	0.00	C
ATOM	9831	CB	CYS	1035	3.700	104.854	30.578	1.00	0.00	C
ATOM	9832	SG	CYS	1035	3.156	103.129	30.401	1.00	0.00	S
ATOM	9833	C	CYS	1035	5.462	106.527	30.373	1.00	0.00	C
ATOM	9834	O	CYS	1035	6.258	106.881	31.241	1.00	0.00	O
ATOM	9835	N	SER	1036	4.859	107.421	29.561	1.00	0.00	N
ATOM	9836	HN	SER	1036	4.265	107.103	28.795	1.00	0.00	H
ATOM	9837	CA	SER	1036	5.063	108.821	29.787	1.00	0.00	C
ATOM	9838	CB	SER	1036	4.382	109.720	28.739	1.00	0.00	C
ATOM	9839	OG	SER	1036	2.973	109.551	28.787	1.00	0.00	O

ATOM	9840	HG	SER	1036	2.553	110.106	28.140	1.00	0.00	H
ATOM	9841	C	SER	1036	4.428	109.075	31.116	1.00	0.00	C
ATOM	9842	O	SER	1036	3.614	108.279	31.578	1.00	0.00	O
ATOM	9843	N	ILE	1037	4.781	110.190	31.775	1.00	0.00	N
ATOM	9844	HN	ILE	1037	5.423	110.853	31.340	1.00	0.00	H
ATOM	9845	CA	ILE	1037	4.263	110.457	33.084	1.00	0.00	C
ATOM	9846	CB	ILE	1037	4.740	111.754	33.649	1.00	0.00	C
ATOM	9847	CG1	ILE	1037	4.226	112.897	32.765	1.00	0.00	C
ATOM	9848	CG2	ILE	1037	6.272	111.694	33.790	1.00	0.00	C
ATOM	9849	CD1	ILE	1037	4.290	114.260	33.437	1.00	0.00	C
ATOM	9850	C	ILE	1037	2.774	110.549	32.982	1.00	0.00	C
ATOM	9851	O	ILE	1037	2.065	110.175	33.909	1.00	0.00	O
ATOM	9852	N	ALA	1038	2.250	111.071	31.858	1.00	0.00	N
ATOM	9853	HN	ALA	1038	2.866	111.364	31.099	1.00	0.00	H
ATOM	9854	CA	ALA	1038	0.829	111.217	31.722	1.00	0.00	C
ATOM	9855	CB	ALA	1038	0.418	111.764	30.346	1.00	0.00	C
ATOM	9856	C	ALA	1038	0.179	109.870	31.885	1.00	0.00	C
ATOM	9857	O	ALA	1038	-0.880	109.760	32.501	1.00	0.00	O
ATOM	9858	N	GLU	1039	0.776	108.814	31.298	1.00	0.00	N
ATOM	9859	HN	GLU	1039	1.623	108.976	30.753	1.00	0.00	H
ATOM	9860	CA	GLU	1039	0.275	107.467	31.404	1.00	0.00	C
ATOM	9861	CB	GLU	1039	1.048	106.498	30.498	1.00	0.00	C
ATOM	9862	CG	GLU	1039	0.947	106.841	29.012	1.00	0.00	C
ATOM	9863	CD	GLU	1039	-0.485	106.613	28.544	1.00	0.00	C
ATOM	9864	OE1	GLU	1039	-1.371	106.375	29.408	1.00	0.00	O
ATOM	9865	OE2	GLU	1039	-0.709	106.678	27.307	1.00	0.00	O
ATOM	9866	C	GLU	1039	0.471	106.975	32.806	1.00	0.00	C
ATOM	9867	O	GLU	1039	-0.420	106.377	33.410	1.00	0.00	O
ATOM	9868	N	ASN	1040	1.663	107.236	33.372	1.00	0.00	N
ATOM	9869	HN	ASN	1040	2.354	107.782	32.858	1.00	0.00	H
ATOM	9870	CA	ASN	1040	1.976	106.758	34.686	1.00	0.00	C
ATOM	9871	CB	ASN	1040	3.343	107.249	35.199	1.00	0.00	C
ATOM	9872	CG	ASN	1040	4.464	106.522	34.466	1.00	0.00	C
ATOM	9873	OD1	ASN	1040	5.644	106.778	34.704	1.00	0.00	O
ATOM	9874	ND2	ASN	1040	4.092	105.588	33.553	1.00	0.00	N
ATOM	9875	1HD2	ASN	1040	3.114	105.376	33.356	1.00	0.00	H
ATOM	9876	2HD2	ASN	1040	4.842	105.101	33.062	1.00	0.00	H
ATOM	9877	C	ASN	1040	0.959	107.330	35.602	1.00	0.00	C
ATOM	9878	O	ASN	1040	0.345	106.582	36.349	1.00	0.00	O
ATOM	9879	N	ILE	1041	0.687	108.644	35.501	1.00	0.00	N
ATOM	9880	HN	ILE	1041	1.182	109.188	34.794	1.00	0.00	H
ATOM	9881	CA	ILE	1041	-0.266	109.320	36.338	1.00	0.00	C
ATOM	9882	CB	ILE	1041	-0.662	110.671	35.795	1.00	0.00	C
ATOM	9883	CG1	ILE	1041	0.515	111.646	35.617	1.00	0.00	C
ATOM	9884	CG2	ILE	1041	-1.767	111.215	36.710	1.00	0.00	C
ATOM	9885	CD1	ILE	1041	1.158	112.133	36.906	1.00	0.00	C
ATOM	9886	C	ILE	1041	-1.519	108.518	36.180	1.00	0.00	C
ATOM	9887	O	ILE	1041	-2.154	108.105	37.145	1.00	0.00	O
ATOM	9888	N	ALA	1042	-1.775	108.149	34.919	1.00	0.00	N
ATOM	9889	HN	ALA	1042	-1.071	108.415	34.230	1.00	0.00	H
ATOM	9890	CA	ALA	1042	-2.901	107.432	34.406	1.00	0.00	C
ATOM	9891	CB	ALA	1042	-2.922	107.322	32.870	1.00	0.00	C
ATOM	9892	C	ALA	1042	-2.992	106.057	34.976	1.00	0.00	C
ATOM	9893	O	ALA	1042	-3.936	105.364	34.604	1.00	0.00	O
ATOM	9894	N	TYR	1043	-1.959	105.604	35.740	1.00	0.00	N
ATOM	9895	HN	TYR	1043	-1.236	106.285	35.972	1.00	0.00	H
ATOM	9896	CA	TYR	1043	-1.769	104.265	36.261	1.00	0.00	C
ATOM	9897	CB	TYR	1043	-1.259	104.123	37.714	1.00	0.00	C
ATOM	9898	CG	TYR	1043	0.218	104.243	37.751	1.00	0.00	C
ATOM	9899	CD1	TYR	1043	0.979	103.402	36.975	1.00	0.00	C
ATOM	9900	CD2	TYR	1043	0.836	105.135	38.596	1.00	0.00	C
ATOM	9901	CE1	TYR	1043	2.349	103.482	36.992	1.00	0.00	C
ATOM	9902	CE2	TYR	1043	2.207	105.221	38.613	1.00	0.00	C
ATOM	9903	CZ	TYR	1043	2.960	104.400	37.809	1.00	0.00	C
ATOM	9904	OH	TYR	1043	4.365	104.493	37.832	1.00	0.00	O
ATOM	9905	HH	TYR	1043	4.788	105.128	38.398	1.00	0.00	H
ATOM	9906	C	TYR	1043	-3.014	103.487	36.262	1.00	0.00	C
ATOM	9907	O	TYR	1043	-3.856	103.684	37.129	1.00	0.00	O
ATOM	9908	N	GLY	1044	-3.165	102.731	35.154	1.00	0.00	N
ATOM	9909	HN	GLY	1044	-2.484	102.945	34.425	1.00	0.00	H
ATOM	9910	CA	GLY	1044	-4.083	101.688	34.785	1.00	0.00	C
ATOM	9911	C	GLY	1044	-4.634	100.933	35.950	1.00	0.00	C
ATOM	9912	O	GLY	1044	-4.519	99.711	35.961	1.00	0.00	O
ATOM	9913	N	ASP	1045	-5.294	101.592	36.907	1.00	0.00	N

ATOM	9914	HN	ASP	1045	-5.492	102.582	36.765	1.00	0.00	H
ATOM	9915	CA	ASP	1045	-5.735	100.978	38.117	1.00	0.00	C
ATOM	9916	CB	ASP	1045	-6.622	101.938	38.917	1.00	0.00	C
ATOM	9917	CG	ASP	1045	-5.911	103.281	38.924	1.00	0.00	C
ATOM	9918	OD1	ASP	1045	-4.784	103.379	39.476	1.00	0.00	O
ATOM	9919	OD2	ASP	1045	-6.502	104.234	38.351	1.00	0.00	O
ATOM	9920	C	ASP	1045	-6.628	99.881	37.671	1.00	0.00	C
ATOM	9921	O	ASP	1045	-6.637	98.780	38.218	1.00	0.00	O
ATOM	9922	N	ASN	1046	-7.396	100.188	36.617	1.00	0.00	N
ATOM	9923	HN	ASN	1046	-7.324	101.116	36.201	1.00	0.00	H
ATOM	9924	CA	ASN	1046	-8.310	99.246	36.066	1.00	0.00	C
ATOM	9925	CB	ASN	1046	-9.476	98.919	37.021	1.00	0.00	C
ATOM	9926	CG	ASN	1046	-10.115	100.214	37.504	1.00	0.00	C
ATOM	9927	OD1	ASN	1046	-10.596	101.027	36.717	1.00	0.00	O
ATOM	9928	ND2	ASN	1046	-10.118	100.412	38.850	1.00	0.00	N
ATOM	9929	1HD2	ASN	1046	-9.719	99.738	39.503	1.00	0.00	H
ATOM	9930	2HD2	ASN	1046	-10.546	101.279	39.174	1.00	0.00	H
ATOM	9931	C	ASN	1046	-8.814	99.818	34.787	1.00	0.00	C
ATOM	9932	O	ASN	1046	-8.086	100.489	34.054	1.00	0.00	O
ATOM	9933	N	SER	1047	-10.109	99.600	34.504	1.00	0.00	N
ATOM	9934	HN	SER	1047	-10.682	99.097	35.182	1.00	0.00	H
ATOM	9935	CA	SER	1047	-10.717	100.047	33.285	1.00	0.00	C
ATOM	9936	CB	SER	1047	-12.194	99.635	33.165	1.00	0.00	C
ATOM	9937	OG	SER	1047	-12.733	100.108	31.941	1.00	0.00	O
ATOM	9938	HG	SER	1047	-13.645	99.854	31.867	1.00	0.00	H
ATOM	9939	C	SER	1047	-10.634	101.539	33.208	1.00	0.00	C
ATOM	9940	O	SER	1047	-10.940	102.115	32.163	1.00	0.00	O
ATOM	9941	N	ARG	1048	-10.213	102.193	34.314	1.00	0.00	N
ATOM	9942	HN	ARG	1048	-9.984	101.644	35.143	1.00	0.00	H
ATOM	9943	CA	ARG	1048	-10.071	103.618	34.383	1.00	0.00	C
ATOM	9944	CB	ARG	1048	-9.243	104.074	35.604	1.00	0.00	C
ATOM	9945	CG	ARG	1048	-9.927	103.819	36.947	1.00	0.00	C
ATOM	9946	CD	ARG	1048	-10.431	105.104	37.595	1.00	0.00	C
ATOM	9947	NE	ARG	1048	-10.369	106.163	36.550	1.00	0.00	N
ATOM	9948	HE	ARG	1048	-9.881	105.987	35.672	1.00	0.00	H
ATOM	9949	CZ	ARG	1048	-10.966	107.368	36.770	1.00	0.00	C
ATOM	9950	NH1	ARG	1048	-11.635	107.591	37.934	1.00	0.00	N
ATOM	9951	1HH1	ARG	1048	-12.082	108.493	38.099	1.00	0.00	H
ATOM	9952	2HH1	ARG	1048	-11.686	106.857	38.640	1.00	0.00	H
ATOM	9953	NH2	ARG	1048	-10.898	108.351	35.824	1.00	0.00	N
ATOM	9954	1HH2	ARG	1048	-11.345	109.253	35.989	1.00	0.00	H
ATOM	9955	2HH2	ARG	1048	-10.397	108.184	34.952	1.00	0.00	H
ATOM	9956	C	ARG	1048	-9.321	104.058	33.163	1.00	0.00	C
ATOM	9957	O	ARG	1048	-8.176	103.672	32.939	1.00	0.00	O
ATOM	9958	N	VAL	1049	-9.985	104.878	32.329	1.00	0.00	N
ATOM	9959	HN	VAL	1049	-10.933	105.164	32.575	1.00	0.00	H
ATOM	9960	CA	VAL	1049	-9.414	105.367	31.108	1.00	0.00	C
ATOM	9961	CB	VAL	1049	-10.440	105.881	30.142	1.00	0.00	C
ATOM	9962	CG1	VAL	1049	-11.160	107.059	30.813	1.00	0.00	C
ATOM	9963	CG2	VAL	1049	-9.759	106.248	28.811	1.00	0.00	C
ATOM	9964	C	VAL	1049	-8.529	106.505	31.476	1.00	0.00	C
ATOM	9965	O	VAL	1049	-8.698	107.094	32.542	1.00	0.00	O
ATOM	9966	N	VAL	1050	-7.544	106.825	30.613	1.00	0.00	N
ATOM	9967	HN	VAL	1050	-7.431	106.307	29.742	1.00	0.00	H
ATOM	9968	CA	VAL	1050	-6.660	107.902	30.938	1.00	0.00	C
ATOM	9969	CB	VAL	1050	-5.452	107.964	30.048	1.00	0.00	C
ATOM	9970	CG1	VAL	1050	-4.623	109.207	30.413	1.00	0.00	C
ATOM	9971	CG2	VAL	1050	-4.684	106.640	30.186	1.00	0.00	C
ATOM	9972	C	VAL	1050	-7.407	109.186	30.777	1.00	0.00	C
ATOM	9973	O	VAL	1050	-7.261	109.891	29.779	1.00	0.00	O
ATOM	9974	N	SER	1051	-8.209	109.543	31.800	1.00	0.00	N
ATOM	9975	HN	SER	1051	-8.278	108.941	32.621	1.00	0.00	H
ATOM	9976	CA	SER	1051	-8.966	110.758	31.747	1.00	0.00	C
ATOM	9977	CB	SER	1051	-9.942	110.904	32.928	1.00	0.00	C
ATOM	9978	OG	SER	1051	-10.668	112.120	32.831	1.00	0.00	O
ATOM	9979	HG	SER	1051	-11.270	112.210	33.560	1.00	0.00	H
ATOM	9980	C	SER	1051	-7.985	111.885	31.805	1.00	0.00	C
ATOM	9981	O	SER	1051	-7.291	112.075	32.799	1.00	0.00	O
ATOM	9982	N	GLN	1052	-7.929	112.701	30.743	1.00	0.00	N
ATOM	9983	HN	GLN	1052	-8.588	112.593	29.972	1.00	0.00	H
ATOM	9984	CA	GLN	1052	-6.929	113.729	30.705	1.00	0.00	C
ATOM	9985	CB	GLN	1052	-7.023	114.582	29.430	1.00	0.00	C
ATOM	9986	CG	GLN	1052	-6.006	115.723	29.372	1.00	0.00	C
ATOM	9987	CD	GLN	1052	-6.283	116.530	28.111	1.00	0.00	C

ATOM	9988	OE1	GLN	1052	-7.425	116.638	27.666	1.00	0.00	O
ATOM	9989	NE2	GLN	1052	-5.209	117.118	27.517	1.00	0.00	N
ATOM	9990	1HE2	GLN	1052	-5.395	117.659	26.672	1.00	0.00	H
ATOM	9991	2HE2	GLN	1052	-4.262	117.028	27.886	1.00	0.00	H
ATOM	9992	C	GLN	1052	-7.120	114.672	31.845	1.00	0.00	C
ATOM	9993	O	GLN	1052	-6.205	114.891	32.636	1.00	0.00	O
ATOM	9994	N	GLU	1053	-8.346	115.191	32.010	1.00	0.00	N
ATOM	9995	HN	GLU	1053	-9.112	114.872	31.417	1.00	0.00	H
ATOM	9996	CA	GLU	1053	-8.592	116.187	33.009	1.00	0.00	C
ATOM	9997	CB	GLU	1053	-10.074	116.570	33.100	1.00	0.00	C
ATOM	9998	CG	GLU	1053	-10.679	116.922	31.748	1.00	0.00	C
ATOM	9999	CD	GLU	1053	-11.105	115.603	31.121	1.00	0.00	C
ATOM	10000	OE1	GLU	1053	-12.196	115.102	31.506	1.00	0.00	O
ATOM	10001	OE2	GLU	1053	-10.351	115.071	30.264	1.00	0.00	O
ATOM	10002	C	GLU	1053	-8.269	115.541	34.302	1.00	0.00	C
ATOM	10003	O	GLU	1053	-7.791	116.180	35.238	1.00	0.00	O
ATOM	10004	N	GLU	1054	-8.552	114.234	34.403	1.00	0.00	N
ATOM	10005	HN	GLU	1054	-8.953	113.697	33.634	1.00	0.00	H
ATOM	10006	CA	GLU	1054	-8.249	113.656	35.668	1.00	0.00	C
ATOM	10007	CB	GLU	1054	-8.766	112.226	35.915	1.00	0.00	C
ATOM	10008	CG	GLU	1054	-7.969	111.103	35.260	1.00	0.00	C
ATOM	10009	CD	GLU	1054	-8.133	109.881	36.148	1.00	0.00	C
ATOM	10010	OE1	GLU	1054	-8.628	110.060	37.292	1.00	0.00	O
ATOM	10011	OE2	GLU	1054	-7.748	108.766	35.707	1.00	0.00	O
ATOM	10012	C	GLU	1054	-6.762	113.639	35.877	1.00	0.00	C
ATOM	10013	O	GLU	1054	-6.289	114.050	36.932	1.00	0.00	O
ATOM	10014	N	ILE	1055	-5.968	113.232	34.863	1.00	0.00	N
ATOM	10015	HN	ILE	1055	-6.374	112.995	33.958	1.00	0.00	H
ATOM	10016	CA	ILE	1055	-4.546	113.135	35.066	1.00	0.00	C
ATOM	10017	CB	ILE	1055	-3.757	112.644	33.877	1.00	0.00	C
ATOM	10018	CG1	ILE	1055	-3.781	113.644	32.712	1.00	0.00	C
ATOM	10019	CG2	ILE	1055	-4.302	111.255	33.509	1.00	0.00	C
ATOM	10020	CD1	ILE	1055	-2.816	113.302	31.578	1.00	0.00	C
ATOM	10021	C	ILE	1055	-4.050	114.499	35.431	1.00	0.00	C
ATOM	10022	O	ILE	1055	-3.071	114.630	36.166	1.00	0.00	O
ATOM	10023	N	VAL	1056	-4.666	115.555	34.861	1.00	0.00	N
ATOM	10024	HN	VAL	1056	-5.398	115.412	34.165	1.00	0.00	H
ATOM	10025	CA	VAL	1056	-4.278	116.883	35.246	1.00	0.00	C
ATOM	10026	CB	VAL	1056	-4.676	118.011	34.324	1.00	0.00	C
ATOM	10027	CG1	VAL	1056	-3.918	117.833	33.005	1.00	0.00	C
ATOM	10028	CG2	VAL	1056	-6.190	118.102	34.154	1.00	0.00	C
ATOM	10029	C	VAL	1056	-4.712	117.184	36.647	1.00	0.00	C
ATOM	10030	O	VAL	1056	-3.998	117.870	37.377	1.00	0.00	O
ATOM	10031	N	ARG	1057	-5.888	116.689	37.083	1.00	0.00	N
ATOM	10032	HN	ARG	1057	-6.482	116.114	36.486	1.00	0.00	H
ATOM	10033	CA	ARG	1057	-6.260	117.012	38.429	1.00	0.00	C
ATOM	10034	CB	ARG	1057	-7.692	116.596	38.832	1.00	0.00	C
ATOM	10035	CG	ARG	1057	-8.027	115.111	38.747	1.00	0.00	C
ATOM	10036	CD	ARG	1057	-9.529	114.833	38.794	1.00	0.00	C
ATOM	10037	NE	ARG	1057	-10.166	115.571	37.665	1.00	0.00	N
ATOM	10038	HE	ARG	1057	-9.950	116.556	37.511	1.00	0.00	H
ATOM	10039	CZ	ARG	1057	-11.040	114.924	36.837	1.00	0.00	C
ATOM	10040	NH1	ARG	1057	-11.237	113.580	36.973	1.00	0.00	N
ATOM	10041	1HH1	ARG	1057	-11.889	113.097	36.355	1.00	0.00	H
ATOM	10042	2HH1	ARG	1057	-10.733	113.062	37.692	1.00	0.00	H
ATOM	10043	NH2	ARG	1057	-11.715	115.618	35.874	1.00	0.00	N
ATOM	10044	1HH2	ARG	1057	-12.367	115.135	35.256	1.00	0.00	H
ATOM	10045	2HH2	ARG	1057	-11.568	116.622	35.772	1.00	0.00	H
ATOM	10046	C	ARG	1057	-5.239	116.411	39.342	1.00	0.00	C
ATOM	10047	O	ARG	1057	-4.869	117.021	40.345	1.00	0.00	O
ATOM	10048	N	ALA	1058	-4.743	115.196	39.024	1.00	0.00	N
ATOM	10049	HN	ALA	1058	-5.073	114.695	38.199	1.00	0.00	H
ATOM	10050	CA	ALA	1058	-3.739	114.628	39.877	1.00	0.00	C
ATOM	10051	CB	ALA	1058	-3.238	113.247	39.451	1.00	0.00	C
ATOM	10052	C	ALA	1058	-2.534	115.494	39.847	1.00	0.00	C
ATOM	10053	O	ALA	1058	-2.099	115.937	40.892	1.00	0.00	O
ATOM	10054	N	ALA	1059	-2.028	115.864	38.659	1.00	0.00	N
ATOM	10055	HN	ALA	1059	-2.519	115.593	37.807	1.00	0.00	H
ATOM	10056	CA	ALA	1059	-0.815	116.630	38.551	1.00	0.00	C
ATOM	10057	CB	ALA	1059	-0.500	117.045	37.103	1.00	0.00	C
ATOM	10058	C	ALA	1059	-1.012	117.881	39.340	1.00	0.00	C
ATOM	10059	O	ALA	1059	-0.069	118.438	39.904	1.00	0.00	O
ATOM	10060	N	LYS	1060	-2.263	118.365	39.373	1.00	0.00	N
ATOM	10061	HN	LYS	1060	-3.018	117.866	38.903	1.00	0.00	H



ATOM	10062	CA	LYS	1060	-2.532	119.581	40.069	1.00	0.00	C
ATOM	10063	CB	LYS	1060	-4.003	119.978	39.871	1.00	0.00	C
ATOM	10064	CG	LYS	1060	-4.223	121.484	39.797	1.00	0.00	C
ATOM	10065	CD	LYS	1060	-3.687	122.098	38.498	1.00	0.00	C
ATOM	10066	CE	LYS	1060	-4.582	121.849	37.279	1.00	0.00	C
ATOM	10067	NZ	LYS	1060	-5.815	122.665	37.376	1.00	0.00	N
ATOM	10068	HZ1	LYS	1060	-6.411	122.499	36.565	1.00	0.00	H
ATOM	10069	HZ2	LYS	1060	-5.608	123.656	37.501	1.00	0.00	H
ATOM	10070	HZ3	LYS	1060	-6.311	122.504	38.253	1.00	0.00	H
ATOM	10071	C	LYS	1060	-2.256	119.418	41.549	1.00	0.00	C
ATOM	10072	O	LYS	1060	-1.304	119.990	42.076	1.00	0.00	O
ATOM	10073	N	GLU	1061	-3.017	118.545	42.243	1.00	0.00	N
ATOM	10074	HN	GLU	1061	-3.705	117.985	41.739	1.00	0.00	H
ATOM	10075	CA	GLU	1061	-2.894	118.374	43.671	1.00	0.00	C
ATOM	10076	CB	GLU	1061	-3.995	117.491	44.273	1.00	0.00	C
ATOM	10077	CG	GLU	1061	-3.876	117.374	45.793	1.00	0.00	C
ATOM	10078	CD	GLU	1061	-4.222	118.723	46.409	1.00	0.00	C
ATOM	10079	OE1	GLU	1061	-5.356	119.218	46.163	1.00	0.00	O
ATOM	10080	OE2	GLU	1061	-3.359	119.277	47.141	1.00	0.00	O
ATOM	10081	C	GLU	1061	-1.581	117.733	43.969	1.00	0.00	C
ATOM	10082	O	GLU	1061	-1.032	117.851	45.062	1.00	0.00	O
ATOM	10083	N	ALA	1062	-1.082	116.977	42.991	1.00	0.00	N
ATOM	10084	HN	ALA	1062	-1.618	116.909	42.126	1.00	0.00	H
ATOM	10085	CA	ALA	1062	0.145	116.258	43.066	1.00	0.00	C
ATOM	10086	CB	ALA	1062	0.469	115.479	41.780	1.00	0.00	C
ATOM	10087	C	ALA	1062	1.217	117.277	43.256	1.00	0.00	C
ATOM	10088	O	ALA	1062	2.124	117.088	44.062	1.00	0.00	O
ATOM	10089	N	ASN	1063	1.088	118.422	42.558	1.00	0.00	N
ATOM	10090	HN	ASN	1063	0.260	118.550	41.977	1.00	0.00	H
ATOM	10091	CA	ASN	1063	2.070	119.469	42.600	1.00	0.00	C
ATOM	10092	CB	ASN	1063	2.554	119.800	44.024	1.00	0.00	C
ATOM	10093	CG	ASN	1063	1.400	120.424	44.799	1.00	0.00	C
ATOM	10094	OD1	ASN	1063	1.468	120.582	46.017	1.00	0.00	O
ATOM	10095	ND2	ASN	1063	0.305	120.782	44.078	1.00	0.00	N
ATOM	10096	1HD2	ASN	1063	-0.468	121.200	44.597	1.00	0.00	H
ATOM	10097	2HD2	ASN	1063	0.249	120.651	43.068	1.00	0.00	H
ATOM	10098	C	ASN	1063	3.266	119.041	41.807	1.00	0.00	C
ATOM	10099	O	ASN	1063	4.369	119.556	41.981	1.00	0.00	O
ATOM	10100	N	ILE	1064	3.066	118.025	40.959	1.00	0.00	N
ATOM	10101	HN	ILE	1064	2.162	117.555	41.009	1.00	0.00	H
ATOM	10102	CA	ILE	1064	3.998	117.533	39.987	1.00	0.00	C
ATOM	10103	CB	ILE	1064	3.611	116.171	39.488	1.00	0.00	C
ATOM	10104	CG1	ILE	1064	4.836	115.382	38.984	1.00	0.00	C
ATOM	10105	CG2	ILE	1064	2.481	116.348	38.463	1.00	0.00	C
ATOM	10106	CD1	ILE	1064	5.668	116.043	37.891	1.00	0.00	C
ATOM	10107	C	ILE	1064	3.939	118.513	38.853	1.00	0.00	C
ATOM	10108	O	ILE	1064	4.847	118.643	38.033	1.00	0.00	O
ATOM	10109	N	HIS	1065	2.799	119.222	38.785	1.00	0.00	N
ATOM	10110	HN	HIS	1065	2.142	119.131	39.560	1.00	0.00	H
ATOM	10111	CA	HIS	1065	2.436	120.094	37.710	1.00	0.00	C
ATOM	10112	ND1	HIS	1065	1.112	122.340	35.881	1.00	0.00	N
ATOM	10113	HD1	HIS	1065	2.035	122.760	35.991	1.00	0.00	H
ATOM	10114	CG	HIS	1065	0.516	121.432	36.728	1.00	0.00	C
ATOM	10115	CB	HIS	1065	1.145	120.891	37.981	1.00	0.00	C
ATOM	10116	NE2	HIS	1065	-0.881	121.873	35.009	1.00	0.00	N
ATOM	10117	HE2	HIS	1065	-1.692	121.865	34.391	1.00	0.00	H
ATOM	10118	CD2	HIS	1065	-0.701	121.159	36.180	1.00	0.00	C
ATOM	10119	CE1	HIS	1065	0.234	122.568	34.871	1.00	0.00	C
ATOM	10120	C	HIS	1065	3.539	121.083	37.492	1.00	0.00	C
ATOM	10121	O	HIS	1065	3.688	121.587	36.381	1.00	0.00	O
ATOM	10122	N	ALA	1066	4.343	121.388	38.533	1.00	0.00	N
ATOM	10123	HN	ALA	1066	4.199	120.934	39.435	1.00	0.00	H
ATOM	10124	CA	ALA	1066	5.401	122.349	38.379	1.00	0.00	C
ATOM	10125	CB	ALA	1066	6.296	122.464	39.625	1.00	0.00	C
ATOM	10126	C	ALA	1066	6.262	121.891	37.236	1.00	0.00	C
ATOM	10127	O	ALA	1066	6.717	122.708	36.439	1.00	0.00	O
ATOM	10128	N	PHE	1067	6.534	120.575	37.146	1.00	0.00	N
ATOM	10129	HN	PHE	1067	6.231	119.957	37.899	1.00	0.00	H
ATOM	10130	CA	PHE	1067	7.237	120.010	36.024	1.00	0.00	C
ATOM	10131	CB	PHE	1067	7.719	118.565	36.238	1.00	0.00	C
ATOM	10132	CG	PHE	1067	8.941	118.600	37.084	1.00	0.00	C
ATOM	10133	CD1	PHE	1067	8.850	118.799	38.440	1.00	0.00	C
ATOM	10134	CD2	PHE	1067	10.180	118.418	36.515	1.00	0.00	C
ATOM	10135	CE1	PHE	1067	9.983	118.826	39.219	1.00	0.00	C

ATOM	10136	CE2	PHE	1067	11.317	118.444	37.287	1.00	0.00	C
ATOM	10137	CZ	PHE	1067	11.218	118.649	38.642	1.00	0.00	C
ATOM	10138	C	PHE	1067	6.340	119.987	34.825	1.00	0.00	C
ATOM	10139	O	PHE	1067	6.789	120.142	33.692	1.00	0.00	O
ATOM	10140	N	ILE	1068	5.036	119.751	35.050	1.00	0.00	N
ATOM	10141	HN	ILE	1068	4.711	119.692	36.015	1.00	0.00	H
ATOM	10142	CA	ILE	1068	4.081	119.579	33.992	1.00	0.00	C
ATOM	10143	CB	ILE	1068	2.713	119.278	34.519	1.00	0.00	C
ATOM	10144	CG1	ILE	1068	2.747	117.986	35.342	1.00	0.00	C
ATOM	10145	CG2	ILE	1068	1.739	119.255	33.331	1.00	0.00	C
ATOM	10146	CD1	ILE	1068	3.327	116.806	34.574	1.00	0.00	C
ATOM	10147	C	ILE	1068	3.941	120.815	33.164	1.00	0.00	C
ATOM	10148	O	ILE	1068	3.871	120.740	31.939	1.00	0.00	O
ATOM	10149	N	GLU	1069	3.868	121.993	33.799	1.00	0.00	N
ATOM	10150	HN	GLU	1069	3.992	122.055	34.810	1.00	0.00	H
ATOM	10151	CA	GLU	1069	3.611	123.159	33.013	1.00	0.00	C
ATOM	10152	CB	GLU	1069	3.400	124.399	33.896	1.00	0.00	C
ATOM	10153	CG	GLU	1069	4.544	124.656	34.875	1.00	0.00	C
ATOM	10154	CD	GLU	1069	4.077	125.723	35.852	1.00	0.00	C
ATOM	10155	OE1	GLU	1069	3.004	125.515	36.478	1.00	0.00	O
ATOM	10156	OE2	GLU	1069	4.786	126.755	35.991	1.00	0.00	O
ATOM	10157	C	GLU	1069	4.709	123.424	32.014	1.00	0.00	C
ATOM	10158	O	GLU	1069	4.426	123.554	30.825	1.00	0.00	O
ATOM	10159	N	SER	1070	5.979	123.550	32.461	1.00	0.00	N
ATOM	10160	HN	SER	1070	6.165	123.435	33.457	1.00	0.00	H
ATOM	10161	CA	SER	1070	7.080	123.842	31.575	1.00	0.00	C
ATOM	10162	CB	SER	1070	8.277	124.457	32.320	1.00	0.00	C
ATOM	10163	OG	SER	1070	7.887	125.667	32.949	1.00	0.00	O
ATOM	10164	HG	SER	1070	8.626	126.047	33.409	1.00	0.00	H
ATOM	10165	C	SER	1070	7.613	122.654	30.840	1.00	0.00	C
ATOM	10166	O	SER	1070	7.242	122.386	29.696	1.00	0.00	O
ATOM	10167	N	LEU	1071	8.448	121.893	31.590	1.00	0.00	N
ATOM	10168	HN	LEU	1071	8.481	122.153	32.576	1.00	0.00	H
ATOM	10169	CA	LEU	1071	9.296	120.783	31.240	1.00	0.00	C
ATOM	10170	CB	LEU	1071	9.191	119.665	32.292	1.00	0.00	C
ATOM	10171	CG	LEU	1071	10.267	118.575	32.200	1.00	0.00	C
ATOM	10172	CD1	LEU	1071	10.172	117.772	30.895	1.00	0.00	C
ATOM	10173	CD2	LEU	1071	11.652	119.186	32.443	1.00	0.00	C
ATOM	10174	C	LEU	1071	8.892	120.252	29.904	1.00	0.00	C
ATOM	10175	O	LEU	1071	7.738	119.891	29.678	1.00	0.00	O
ATOM	10176	N	PRO	1072	9.855	120.194	29.022	1.00	0.00	N
ATOM	10177	CA	PRO	1072	9.654	119.885	27.636	1.00	0.00	C
ATOM	10178	CD	PRO	1072	11.249	120.406	29.363	1.00	0.00	C
ATOM	10179	CB	PRO	1072	11.053	119.744	27.038	1.00	0.00	C
ATOM	10180	CG	PRO	1072	11.958	120.534	28.005	1.00	0.00	C
ATOM	10181	C	PRO	1072	8.810	118.670	27.469	1.00	0.00	C
ATOM	10182	O	PRO	1072	8.916	117.753	28.277	1.00	0.00	O
ATOM	10183	N	ASN	1073	7.928	118.690	26.453	1.00	0.00	N
ATOM	10184	HN	ASN	1073	7.895	119.527	25.871	1.00	0.00	H
ATOM	10185	CA	ASN	1073	7.031	117.620	26.129	1.00	0.00	C
ATOM	10186	CB	ASN	1073	7.726	116.272	25.846	1.00	0.00	C
ATOM	10187	CG	ASN	1073	8.142	116.248	24.380	1.00	0.00	C
ATOM	10188	OD1	ASN	1073	7.298	116.229	23.485	1.00	0.00	O
ATOM	10189	ND2	ASN	1073	9.477	116.243	24.121	1.00	0.00	N
ATOM	10190	1HD2	ASN	1073	9.755	116.227	23.140	1.00	0.00	H
ATOM	10191	2HD2	ASN	1073	10.177	116.259	24.863	1.00	0.00	H
ATOM	10192	C	ASN	1073	6.039	117.429	27.227	1.00	0.00	C
ATOM	10193	O	ASN	1073	5.136	116.606	27.087	1.00	0.00	O
ATOM	10194	N	LYS	1074	6.140	118.236	28.305	1.00	0.00	N
ATOM	10195	HN	LYS	1074	6.918	118.894	28.352	1.00	0.00	H
ATOM	10196	CA	LYS	1074	5.196	118.206	29.390	1.00	0.00	C
ATOM	10197	CB	LYS	1074	3.915	118.982	29.055	1.00	0.00	C
ATOM	10198	CG	LYS	1074	4.227	120.450	28.769	1.00	0.00	C
ATOM	10199	CD	LYS	1074	3.066	121.238	28.171	1.00	0.00	C
ATOM	10200	CE	LYS	1074	3.449	122.670	27.796	1.00	0.00	C
ATOM	10201	NZ	LYS	1074	2.240	123.427	27.408	1.00	0.00	N
ATOM	10202	HZ1	LYS	1074	2.495	124.382	27.158	1.00	0.00	H
ATOM	10203	HZ2	LYS	1074	1.522	123.399	28.132	1.00	0.00	H
ATOM	10204	HZ3	LYS	1074	1.719	122.962	26.664	1.00	0.00	H
ATOM	10205	C	LYS	1074	4.846	116.795	29.781	1.00	0.00	C
ATOM	10206	O	LYS	1074	5.717	115.938	29.930	1.00	0.00	O
ATOM	10207	N	TYR	1075	3.531	116.515	29.901	1.00	0.00	N
ATOM	10208	HN	TYR	1075	2.855	117.243	29.667	1.00	0.00	H
ATOM	10209	CA	TYR	1075	3.037	115.235	30.344	1.00	0.00	C

ATOM	10210	CB	TYR	1075	1.502	115.048	30.287	1.00	0.00	C
ATOM	10211	CG	TYR	1075	0.776	115.888	31.287	1.00	0.00	C
ATOM	10212	CD1	TYR	1075	0.801	115.568	32.627	1.00	0.00	C
ATOM	10213	CD2	TYR	1075	0.072	117.002	30.887	1.00	0.00	C
ATOM	10214	CE1	TYR	1075	0.128	116.340	33.546	1.00	0.00	C
ATOM	10215	CE2	TYR	1075	-0.605	117.776	31.800	1.00	0.00	C
ATOM	10216	CZ	TYR	1075	-0.579	117.445	33.133	1.00	0.00	C
ATOM	10217	OH	TYR	1075	-1.271	118.238	34.074	1.00	0.00	O
ATOM	10218	HH	TYR	1075	-1.253	118.009	34.996	1.00	0.00	H
ATOM	10219	C	TYR	1075	3.579	114.163	29.451	1.00	0.00	C
ATOM	10220	O	TYR	1075	3.840	113.047	29.902	1.00	0.00	O
ATOM	10221	N	SER	1076	3.738	114.470	28.153	1.00	0.00	N
ATOM	10222	HN	SER	1076	3.557	115.426	27.845	1.00	0.00	H
ATOM	10223	CA	SER	1076	4.155	113.495	27.185	1.00	0.00	C
ATOM	10224	CB	SER	1076	4.239	114.064	25.760	1.00	0.00	C
ATOM	10225	OG	SER	1076	2.941	114.413	25.304	1.00	0.00	O
ATOM	10226	HG	SER	1076	2.993	114.765	24.423	1.00	0.00	H
ATOM	10227	C	SER	1076	5.510	112.961	27.526	1.00	0.00	C
ATOM	10228	O	SER	1076	5.867	111.871	27.079	1.00	0.00	O
ATOM	10229	N	THR	1077	6.303	113.701	28.326	1.00	0.00	N
ATOM	10230	HN	THR	1077	5.966	114.583	28.711	1.00	0.00	H
ATOM	10231	CA	THR	1077	7.627	113.235	28.631	1.00	0.00	C
ATOM	10232	CB	THR	1077	8.346	114.074	29.633	1.00	0.00	C
ATOM	10233	OG1	THR	1077	8.420	115.409	29.174	1.00	0.00	O
ATOM	10234	HG1	THR	1077	7.546	115.763	29.057	1.00	0.00	H
ATOM	10235	CG2	THR	1077	9.760	113.501	29.822	1.00	0.00	C
ATOM	10236	C	THR	1077	7.540	111.885	29.246	1.00	0.00	C
ATOM	10237	O	THR	1077	6.929	111.686	30.294	1.00	0.00	O
ATOM	10238	N	LYS	1078	8.188	110.906	28.600	1.00	0.00	N
ATOM	10239	HN	LYS	1078	8.694	111.094	27.735	1.00	0.00	H
ATOM	10240	CA	LYS	1078	8.149	109.594	29.158	1.00	0.00	C
ATOM	10241	CB	LYS	1078	8.684	108.478	28.237	1.00	0.00	C
ATOM	10242	CG	LYS	1078	10.195	108.498	28.004	1.00	0.00	C
ATOM	10243	CD	LYS	1078	10.719	107.234	27.312	1.00	0.00	C
ATOM	10244	CE	LYS	1078	10.341	105.933	28.027	1.00	0.00	C
ATOM	10245	NZ	LYS	1078	10.978	104.780	27.354	1.00	0.00	N
ATOM	10246	HZ1	LYS	1078	10.726	103.914	27.830	1.00	0.00	H
ATOM	10247	HZ2	LYS	1078	11.989	104.894	27.277	1.00	0.00	H
ATOM	10248	HZ3	LYS	1078	10.755	104.748	26.359	1.00	0.00	H
ATOM	10249	C	LYS	1078	8.993	109.655	30.378	1.00	0.00	C
ATOM	10250	O	LYS	1078	9.741	110.606	30.592	1.00	0.00	O
ATOM	10251	N	VAL	1079	8.903	108.618	31.216	1.00	0.00	N
ATOM	10252	HN	VAL	1079	8.277	107.846	30.986	1.00	0.00	H
ATOM	10253	CA	VAL	1079	9.659	108.564	32.422	1.00	0.00	C
ATOM	10254	CB	VAL	1079	9.376	107.301	33.183	1.00	0.00	C
ATOM	10255	CG1	VAL	1079	9.582	106.088	32.271	1.00	0.00	C
ATOM	10256	CG2	VAL	1079	10.253	107.286	34.431	1.00	0.00	C
ATOM	10257	C	VAL	1079	11.098	108.690	32.019	1.00	0.00	C
ATOM	10258	O	VAL	1079	11.935	109.128	32.806	1.00	0.00	O
ATOM	10259	N	GLY	1080	11.426	108.302	30.769	1.00	0.00	N
ATOM	10260	HN	GLY	1080	10.731	107.836	30.185	1.00	0.00	H
ATOM	10261	CA	GLY	1080	12.742	108.539	30.255	1.00	0.00	C
ATOM	10262	C	GLY	1080	13.750	107.612	30.848	1.00	0.00	C
ATOM	10263	O	GLY	1080	14.379	107.921	31.856	1.00	0.00	O
ATOM	10264	N	ASP	1081	13.944	106.450	30.194	1.00	0.00	N
ATOM	10265	HN	ASP	1081	13.378	106.245	29.371	1.00	0.00	H
ATOM	10266	CA	ASP	1081	14.922	105.495	30.622	1.00	0.00	C
ATOM	10267	CB	ASP	1081	16.338	106.099	30.665	1.00	0.00	C
ATOM	10268	CG	ASP	1081	17.358	104.969	30.724	1.00	0.00	C
ATOM	10269	OD1	ASP	1081	16.956	103.818	31.039	1.00	0.00	O
ATOM	10270	OD2	ASP	1081	18.555	105.243	30.443	1.00	0.00	O
ATOM	10271	C	ASP	1081	14.569	104.980	31.979	1.00	0.00	C
ATOM	10272	O	ASP	1081	15.418	104.846	32.858	1.00	0.00	O
ATOM	10273	N	LYS	1082	13.280	104.644	32.150	1.00	0.00	N
ATOM	10274	HN	LYS	1082	12.646	104.826	31.372	1.00	0.00	H
ATOM	10275	CA	LYS	1082	12.714	104.053	33.328	1.00	0.00	C
ATOM	10276	CB	LYS	1082	13.179	102.622	33.685	1.00	0.00	C
ATOM	10277	CG	LYS	1082	14.636	102.262	33.397	1.00	0.00	C
ATOM	10278	CD	LYS	1082	14.904	102.070	31.905	1.00	0.00	C
ATOM	10279	CE	LYS	1082	14.046	100.972	31.283	1.00	0.00	C
ATOM	10280	NZ	LYS	1082	13.618	101.379	29.925	1.00	0.00	N
ATOM	10281	HZ1	LYS	1082	13.044	100.645	29.509	1.00	0.00	H
ATOM	10282	HZ2	LYS	1082	14.409	101.629	29.332	1.00	0.00	H
ATOM	10283	HZ3	LYS	1082	13.143	102.282	29.927	1.00	0.00	H

ATOM	10284	C	LYS	1082	12.822	104.919	34.535	1.00	0.00	C
ATOM	10285	O	LYS	1082	12.640	104.426	35.648	1.00	0.00	O
ATOM	10286	N	GLY	1083	13.022	106.241	34.358	1.00	0.00	N
ATOM	10287	HN	GLY	1083	13.205	106.630	33.433	1.00	0.00	H
ATOM	10288	CA	GLY	1083	12.968	107.079	35.520	1.00	0.00	C
ATOM	10289	C	GLY	1083	14.085	108.069	35.630	1.00	0.00	C
ATOM	10290	O	GLY	1083	13.794	109.260	35.698	1.00	0.00	O
ATOM	10291	N	THR	1084	15.361	107.634	35.588	1.00	0.00	N
ATOM	10292	HN	THR	1084	15.531	106.658	35.347	1.00	0.00	H
ATOM	10293	CA	THR	1084	16.496	108.476	35.866	1.00	0.00	C
ATOM	10294	CB	THR	1084	17.791	107.821	35.468	1.00	0.00	C
ATOM	10295	OG1	THR	1084	17.811	107.554	34.071	1.00	0.00	O
ATOM	10296	HG1	THR	1084	17.730	108.371	33.593	1.00	0.00	H
ATOM	10297	CG2	THR	1084	17.922	106.501	36.241	1.00	0.00	C
ATOM	10298	C	THR	1084	16.420	109.794	35.152	1.00	0.00	C
ATOM	10299	O	THR	1084	16.827	109.929	33.999	1.00	0.00	O
ATOM	10300	N	GLN	1085	15.888	110.821	35.845	1.00	0.00	N
ATOM	10301	HN	GLN	1085	15.490	110.662	36.770	1.00	0.00	H
ATOM	10302	CA	GLN	1085	15.884	112.134	35.278	1.00	0.00	C
ATOM	10303	CB	GLN	1085	15.273	112.218	33.873	1.00	0.00	C
ATOM	10304	CG	GLN	1085	13.775	111.927	33.827	1.00	0.00	C
ATOM	10305	CD	GLN	1085	13.298	112.423	32.474	1.00	0.00	C
ATOM	10306	OE1	GLN	1085	14.103	112.825	31.635	1.00	0.00	O
ATOM	10307	NE2	GLN	1085	11.956	112.411	32.255	1.00	0.00	N
ATOM	10308	1HE2	GLN	1085	11.289	112.078	32.951	1.00	0.00	H
ATOM	10309	2HE2	GLN	1085	11.635	112.744	31.346	1.00	0.00	H
ATOM	10310	C	GLN	1085	15.049	113.013	36.150	1.00	0.00	C
ATOM	10311	O	GLN	1085	14.703	114.126	35.756	1.00	0.00	O
ATOM	10312	N	LEU	1086	14.686	112.539	37.358	1.00	0.00	N
ATOM	10313	HN	LEU	1086	14.978	111.608	37.654	1.00	0.00	H
ATOM	10314	CA	LEU	1086	13.886	113.355	38.224	1.00	0.00	C
ATOM	10315	CB	LEU	1086	12.375	113.241	37.962	1.00	0.00	C
ATOM	10316	CG	LEU	1086	11.902	113.911	36.661	1.00	0.00	C
ATOM	10317	CD1	LEU	1086	10.387	113.742	36.488	1.00	0.00	C
ATOM	10318	CD2	LEU	1086	12.315	115.390	36.614	1.00	0.00	C
ATOM	10319	C	LEU	1086	14.116	112.942	39.645	1.00	0.00	C
ATOM	10320	O	LEU	1086	14.221	111.756	39.957	1.00	0.00	O
ATOM	10321	N	SER	1087	14.164	113.936	40.554	1.00	0.00	N
ATOM	10322	HN	SER	1087	14.029	114.900	40.248	1.00	0.00	H
ATOM	10323	CA	SER	1087	14.400	113.668	41.939	1.00	0.00	C
ATOM	10324	CB	SER	1087	14.641	114.932	42.782	1.00	0.00	C
ATOM	10325	OG	SER	1087	14.864	114.579	44.139	1.00	0.00	O
ATOM	10326	HG	SER	1087	15.013	115.360	44.660	1.00	0.00	H
ATOM	10327	C	SER	1087	13.207	112.959	42.483	1.00	0.00	C
ATOM	10328	O	SER	1087	12.122	112.989	41.906	1.00	0.00	O
ATOM	10329	N	GLY	1088	13.404	112.289	43.629	1.00	0.00	N
ATOM	10330	HN	GLY	1088	14.322	112.338	44.071	1.00	0.00	H
ATOM	10331	CA	GLY	1088	12.381	111.509	44.257	1.00	0.00	C
ATOM	10332	C	GLY	1088	11.253	112.411	44.640	1.00	0.00	C
ATOM	10333	O	GLY	1088	10.100	111.981	44.670	1.00	0.00	O
ATOM	10334	N	GLY	1089	11.558	113.681	44.979	1.00	0.00	N
ATOM	10335	HN	GLY	1089	12.518	114.019	44.916	1.00	0.00	H
ATOM	10336	CA	GLY	1089	10.508	114.545	45.429	1.00	0.00	C
ATOM	10337	C	GLY	1089	9.461	114.645	44.366	1.00	0.00	C
ATOM	10338	O	GLY	1089	8.281	114.431	44.635	1.00	0.00	O
ATOM	10339	N	GLN	1090	9.862	114.938	43.116	1.00	0.00	N
ATOM	10340	HN	GLN	1090	10.850	115.092	42.917	1.00	0.00	H
ATOM	10341	CA	GLN	1090	8.889	115.032	42.064	1.00	0.00	C
ATOM	10342	CB	GLN	1090	9.431	115.627	40.744	1.00	0.00	C
ATOM	10343	CG	GLN	1090	10.681	114.964	40.172	1.00	0.00	C
ATOM	10344	CD	GLN	1090	11.892	115.695	40.753	1.00	0.00	C
ATOM	10345	OE1	GLN	1090	12.043	115.818	41.967	1.00	0.00	O
ATOM	10346	NE2	GLN	1090	12.775	116.213	39.858	1.00	0.00	N
ATOM	10347	1HE2	GLN	1090	13.583	116.701	40.246	1.00	0.00	H
ATOM	10348	2HE2	GLN	1090	12.650	116.111	38.851	1.00	0.00	H
ATOM	10349	C	GLN	1090	8.270	113.686	41.856	1.00	0.00	C
ATOM	10350	O	GLN	1090	7.073	113.579	41.590	1.00	0.00	O
ATOM	10351	N	LYS	1091	9.065	112.614	42.022	1.00	0.00	N
ATOM	10352	HN	LYS	1091	10.041	112.746	42.288	1.00	0.00	H
ATOM	10353	CA	LYS	1091	8.554	111.285	41.829	1.00	0.00	C
ATOM	10354	CB	LYS	1091	9.563	110.199	42.245	1.00	0.00	C
ATOM	10355	CG	LYS	1091	10.842	110.118	41.408	1.00	0.00	C
ATOM	10356	CD	LYS	1091	10.615	109.687	39.959	1.00	0.00	C
ATOM	10357	CE	LYS	1091	11.912	109.398	39.199	1.00	0.00	C

ATOM	10358	NZ	LYS	1091	12.426	108.062	39.577	1.00	0.00	N
ATOM	10359	HZ1	LYS	1091	13.290	107.869	39.071	1.00	0.00	H
ATOM	10360	HZ2	LYS	1091	11.729	107.330	39.440	1.00	0.00	H
ATOM	10361	HZ3	LYS	1091	12.543	107.967	40.586	1.00	0.00	H
ATOM	10362	C	LYS	1091	7.385	111.099	42.748	1.00	0.00	C
ATOM	10363	O	LYS	1091	6.315	110.669	42.322	1.00	0.00	O
ATOM	10364	N	GLN	1092	7.546	111.466	44.034	1.00	0.00	N
ATOM	10365	HN	GLN	1092	8.425	111.892	44.329	1.00	0.00	H
ATOM	10366	CA	GLN	1092	6.498	111.266	44.996	1.00	0.00	C
ATOM	10367	CB	GLN	1092	6.882	111.690	46.419	1.00	0.00	C
ATOM	10368	CG	GLN	1092	7.942	110.778	47.037	1.00	0.00	C
ATOM	10369	CD	GLN	1092	7.340	109.382	47.147	1.00	0.00	C
ATOM	10370	OE1	GLN	1092	6.970	108.772	46.145	1.00	0.00	O
ATOM	10371	NE2	GLN	1092	7.229	108.859	48.398	1.00	0.00	N
ATOM	10372	1HE2	GLN	1092	7.536	109.365	49.229	1.00	0.00	H
ATOM	10373	2HE2	GLN	1092	6.826	107.925	48.472	1.00	0.00	H
ATOM	10374	C	GLN	1092	5.322	112.078	44.577	1.00	0.00	C
ATOM	10375	O	GLN	1092	4.177	111.697	44.816	1.00	0.00	O
ATOM	10376	N	ARG	1093	5.570	113.237	43.949	1.00	0.00	N
ATOM	10377	HN	ARG	1093	6.529	113.544	43.786	1.00	0.00	H
ATOM	10378	CA	ARG	1093	4.466	114.034	43.512	1.00	0.00	C
ATOM	10379	CB	ARG	1093	4.929	115.290	42.751	1.00	0.00	C
ATOM	10380	CG	ARG	1093	5.570	116.364	43.639	1.00	0.00	C
ATOM	10381	CD	ARG	1093	6.335	117.424	42.840	1.00	0.00	C
ATOM	10382	NE	ARG	1093	6.654	118.561	43.751	1.00	0.00	N
ATOM	10383	HE	ARG	1093	6.050	119.383	43.760	1.00	0.00	H
ATOM	10384	CZ	ARG	1093	7.743	118.517	44.573	1.00	0.00	C
ATOM	10385	NH1	ARG	1093	8.510	117.389	44.636	1.00	0.00	N
ATOM	10386	1HH1	ARG	1093	9.324	117.356	45.250	1.00	0.00	H
ATOM	10387	2HH1	ARG	1093	8.274	116.576	44.067	1.00	0.00	H
ATOM	10388	NH2	ARG	1093	8.059	119.606	45.335	1.00	0.00	N
ATOM	10389	1HH2	ARG	1093	8.873	119.573	45.949	1.00	0.00	H
ATOM	10390	2HH2	ARG	1093	7.486	120.449	45.288	1.00	0.00	H
ATOM	10391	C	ARG	1093	3.650	113.194	42.568	1.00	0.00	C
ATOM	10392	O	ARG	1093	2.422	113.183	42.637	1.00	0.00	O
ATOM	10393	N	ILE	1094	4.314	112.457	41.659	1.00	0.00	N
ATOM	10394	HN	ILE	1094	5.334	112.466	41.655	1.00	0.00	H
ATOM	10395	CA	ILE	1094	3.609	111.655	40.691	1.00	0.00	C
ATOM	10396	CB	ILE	1094	4.526	111.016	39.690	1.00	0.00	C
ATOM	10397	CG1	ILE	1094	5.389	112.080	38.995	1.00	0.00	C
ATOM	10398	CG2	ILE	1094	3.662	110.209	38.706	1.00	0.00	C
ATOM	10399	CD1	ILE	1094	6.541	111.491	38.180	1.00	0.00	C
ATOM	10400	C	ILE	1094	2.874	110.530	41.364	1.00	0.00	C
ATOM	10401	O	ILE	1094	1.695	110.303	41.091	1.00	0.00	O
ATOM	10402	N	ALA	1095	3.546	109.817	42.293	1.00	0.00	N
ATOM	10403	HN	ALA	1095	4.483	110.111	42.569	1.00	0.00	H
ATOM	10404	CA	ALA	1095	2.964	108.650	42.900	1.00	0.00	C
ATOM	10405	CB	ALA	1095	3.865	108.033	43.982	1.00	0.00	C
ATOM	10406	C	ALA	1095	1.697	109.079	43.553	1.00	0.00	C
ATOM	10407	O	ALA	1095	0.666	108.421	43.435	1.00	0.00	O
ATOM	10408	N	ILE	1096	1.740	110.234	44.229	1.00	0.00	N
ATOM	10409	HN	ILE	1096	2.617	110.754	44.266	1.00	0.00	H
ATOM	10410	CA	ILE	1096	0.592	110.760	44.900	1.00	0.00	C
ATOM	10411	CB	ILE	1096	0.883	112.074	45.563	1.00	0.00	C
ATOM	10412	CG1	ILE	1096	1.968	111.895	46.638	1.00	0.00	C
ATOM	10413	CG2	ILE	1096	-0.440	112.652	46.087	1.00	0.00	C
ATOM	10414	CD1	ILE	1096	1.608	110.865	47.707	1.00	0.00	C
ATOM	10415	C	ILE	1096	-0.443	111.005	43.866	1.00	0.00	C
ATOM	10416	O	ILE	1096	-1.630	110.776	44.102	1.00	0.00	O
ATOM	10417	N	ALA	1097	-0.007	111.490	42.688	1.00	0.00	N
ATOM	10418	HN	ALA	1097	0.987	111.656	42.529	1.00	0.00	H
ATOM	10419	CA	ALA	1097	-0.964	111.766	41.668	1.00	0.00	C
ATOM	10420	CB	ALA	1097	-0.318	112.236	40.353	1.00	0.00	C
ATOM	10421	C	ALA	1097	-1.677	110.497	41.393	1.00	0.00	C
ATOM	10422	O	ALA	1097	-2.869	110.449	41.679	1.00	0.00	O
ATOM	10423	N	ARG	1098	-0.937	109.405	41.079	1.00	0.00	N
ATOM	10424	HN	ARG	1098	0.080	109.455	41.145	1.00	0.00	H
ATOM	10425	CA	ARG	1098	-1.557	108.176	40.654	1.00	0.00	C
ATOM	10426	CB	ARG	1098	-0.622	106.961	40.464	1.00	0.00	C
ATOM	10427	CG	ARG	1098	-0.007	106.389	41.740	1.00	0.00	C
ATOM	10428	CD	ARG	1098	0.486	104.947	41.595	1.00	0.00	C
ATOM	10429	NE	ARG	1098	1.974	104.957	41.598	1.00	0.00	N
ATOM	10430	HE	ARG	1098	2.478	105.825	41.780	1.00	0.00	H
ATOM	10431	CZ	ARG	1098	2.663	103.804	41.357	1.00	0.00	C

ATOM	10432	NH1	ARG	1098	2.001	102.686	40.938	1.00	0.00	N
ATOM	10433	1HH1	ARG	1098	2.516	101.824	40.758	1.00	0.00	H
ATOM	10434	2HH1	ARG	1098	0.990	102.714	40.806	1.00	0.00	H
ATOM	10435	NH2	ARG	1098	4.015	103.766	41.533	1.00	0.00	N
ATOM	10436	1HH2	ARG	1098	4.530	102.904	41.353	1.00	0.00	H
ATOM	10437	2HH2	ARG	1098	4.510	104.601	41.846	1.00	0.00	H
ATOM	10438	C	ARG	1098	-2.550	107.800	41.703	1.00	0.00	C
ATOM	10439	O	ARG	1098	-3.670	107.413	41.386	1.00	0.00	O
ATOM	10440	N	ALA	1099	-2.191	107.979	42.988	1.00	0.00	N
ATOM	10441	HN	ALA	1099	-1.263	108.327	43.229	1.00	0.00	H
ATOM	10442	CA	ALA	1099	-3.149	107.667	44.009	1.00	0.00	C
ATOM	10443	CB	ALA	1099	-2.563	107.802	45.424	1.00	0.00	C
ATOM	10444	C	ALA	1099	-4.351	108.567	43.952	1.00	0.00	C
ATOM	10445	O	ALA	1099	-5.467	108.109	43.731	1.00	0.00	O
ATOM	10446	N	LEU	1100	-4.158	109.894	44.023	1.00	0.00	N
ATOM	10447	HN	LEU	1100	-3.207	110.262	44.057	1.00	0.00	H
ATOM	10448	CA	LEU	1100	-5.272	110.805	44.052	1.00	0.00	C
ATOM	10449	CB	LEU	1100	-4.863	112.284	44.180	1.00	0.00	C
ATOM	10450	CG	LEU	1100	-4.414	112.659	45.603	1.00	0.00	C
ATOM	10451	CD1	LEU	1100	-3.254	111.774	46.064	1.00	0.00	C
ATOM	10452	CD2	LEU	1100	-4.104	114.159	45.738	1.00	0.00	C
ATOM	10453	C	LEU	1100	-6.053	110.668	42.781	1.00	0.00	C
ATOM	10454	O	LEU	1100	-7.183	111.141	42.703	1.00	0.00	O
ATOM	10455	N	VAL	1101	-5.439	110.165	41.695	1.00	0.00	N
ATOM	10456	HN	VAL	1101	-4.443	109.945	41.720	1.00	0.00	H
ATOM	10457	CA	VAL	1101	-6.207	109.940	40.494	1.00	0.00	C
ATOM	10458	CB	VAL	1101	-5.516	109.817	39.153	1.00	0.00	C
ATOM	10459	CG1	VAL	1101	-5.197	111.223	38.662	1.00	0.00	C
ATOM	10460	CG2	VAL	1101	-4.282	108.915	39.207	1.00	0.00	C
ATOM	10461	C	VAL	1101	-7.128	108.781	40.652	1.00	0.00	C
ATOM	10462	O	VAL	1101	-8.165	108.718	39.998	1.00	0.00	O
ATOM	10463	N	ARG	1102	-6.738	107.805	41.482	1.00	0.00	N
ATOM	10464	HN	ARG	1102	-5.822	107.887	41.924	1.00	0.00	H
ATOM	10465	CA	ARG	1102	-7.531	106.654	41.785	1.00	0.00	C
ATOM	10466	CB	ARG	1102	-6.759	105.582	42.575	1.00	0.00	C
ATOM	10467	CG	ARG	1102	-7.455	104.219	42.573	1.00	0.00	C
ATOM	10468	CD	ARG	1102	-6.638	103.085	43.200	1.00	0.00	C
ATOM	10469	NE	ARG	1102	-5.510	102.743	42.285	1.00	0.00	N
ATOM	10470	HE	ARG	1102	-5.651	102.052	41.548	1.00	0.00	H
ATOM	10471	CZ	ARG	1102	-4.291	103.344	42.422	1.00	0.00	C
ATOM	10472	NH1	ARG	1102	-4.107	104.321	43.357	1.00	0.00	N
ATOM	10473	1HH1	ARG	1102	-3.197	104.770	43.459	1.00	0.00	H
ATOM	10474	2HH1	ARG	1102	-4.882	104.616	43.951	1.00	0.00	H
ATOM	10475	NH2	ARG	1102	-3.253	102.949	41.627	1.00	0.00	N
ATOM	10476	1HH2	ARG	1102	-2.343	103.398	41.729	1.00	0.00	H
ATOM	10477	2HH2	ARG	1102	-3.391	102.219	40.928	1.00	0.00	H
ATOM	10478	C	ARG	1102	-8.713	107.116	42.589	1.00	0.00	C
ATOM	10479	O	ARG	1102	-9.736	106.435	42.656	1.00	0.00	O
ATOM	10480	N	GLN	1103	-8.605	108.302	43.225	1.00	0.00	N
ATOM	10481	HN	GLN	1103	-7.782	108.884	43.066	1.00	0.00	H
ATOM	10482	CA	GLN	1103	-9.632	108.759	44.124	1.00	0.00	C
ATOM	10483	CB	GLN	1103	-10.954	109.207	43.462	1.00	0.00	C
ATOM	10484	CG	GLN	1103	-11.055	110.696	43.104	1.00	0.00	C
ATOM	10485	CD	GLN	1103	-10.300	111.004	41.828	1.00	0.00	C
ATOM	10486	OE1	GLN	1103	-9.289	110.375	41.537	1.00	0.00	O
ATOM	10487	NE2	GLN	1103	-10.795	111.997	41.042	1.00	0.00	N
ATOM	10488	1HE2	GLN	1103	-10.286	112.204	40.183	1.00	0.00	H
ATOM	10489	2HE2	GLN	1103	-11.636	112.520	41.284	1.00	0.00	H
ATOM	10490	C	GLN	1103	-9.972	107.693	45.127	1.00	0.00	C
ATOM	10491	O	GLN	1103	-11.069	107.137	45.072	1.00	0.00	O
ATOM	10492	N	PRO	1104	-9.072	107.374	46.040	1.00	0.00	N
ATOM	10493	CA	PRO	1104	-9.351	106.386	47.050	1.00	0.00	C
ATOM	10494	CD	PRO	1104	-7.638	107.452	45.781	1.00	0.00	C
ATOM	10495	CB	PRO	1104	-8.002	105.929	47.603	1.00	0.00	C
ATOM	10496	CG	PRO	1104	-7.009	106.241	46.479	1.00	0.00	C
ATOM	10497	C	PRO	1104	-10.188	106.987	48.132	1.00	0.00	C
ATOM	10498	O	PRO	1104	-10.701	108.088	47.944	1.00	0.00	O
ATOM	10499	N	HIS	1105	-10.570	106.168	49.124	1.00	0.00	N
ATOM	10500	HN	HIS	1105	-10.430	105.168	48.983	1.00	0.00	H
ATOM	10501	CA	HIS	1105	-11.158	106.579	50.365	1.00	0.00	C
ATOM	10502	ND1	HIS	1105	-13.288	105.722	48.267	1.00	0.00	N
ATOM	10503	HD1	HIS	1105	-12.509	105.204	47.860	1.00	0.00	H
ATOM	10504	CG	HIS	1105	-13.437	106.073	49.590	1.00	0.00	C
ATOM	10505	CB	HIS	1105	-12.423	105.769	50.654	1.00	0.00	C

ATOM	10506	NE2	HIS	1105	-15.211	106.826	48.416	1.00	0.00	N
ATOM	10507	HE2	HIS	1105	-16.096	107.271	48.173	1.00	0.00	H
ATOM	10508	CD2	HIS	1105	-14.619	106.746	49.663	1.00	0.00	C
ATOM	10509	CE1	HIS	1105	-14.375	106.197	47.609	1.00	0.00	C
ATOM	10510	C	HIS	1105	-10.190	106.514	51.519	1.00	0.00	C
ATOM	10511	O	HIS	1105	-10.333	107.210	52.523	1.00	0.00	O
ATOM	10512	N	ILE	1106	-9.200	105.606	51.427	1.00	0.00	N
ATOM	10513	HN	ILE	1106	-9.096	105.081	50.559	1.00	0.00	H
ATOM	10514	CA	ILE	1106	-8.283	105.347	52.504	1.00	0.00	C
ATOM	10515	CB	ILE	1106	-8.396	103.916	52.980	1.00	0.00	C
ATOM	10516	CG1	ILE	1106	-7.845	103.694	54.403	1.00	0.00	C
ATOM	10517	CG2	ILE	1106	-7.743	103.021	51.912	1.00	0.00	C
ATOM	10518	CD1	ILE	1106	-6.327	103.756	54.545	1.00	0.00	C
ATOM	10519	C	ILE	1106	-6.918	105.582	51.922	1.00	0.00	C
ATOM	10520	O	ILE	1106	-6.783	105.589	50.700	1.00	0.00	O
ATOM	10521	N	LEU	1107	-5.887	105.875	52.752	1.00	0.00	N
ATOM	10522	HN	LEU	1107	-6.040	105.953	53.757	1.00	0.00	H
ATOM	10523	CA	LEU	1107	-4.570	106.075	52.196	1.00	0.00	C
ATOM	10524	CB	LEU	1107	-4.157	107.557	52.077	1.00	0.00	C
ATOM	10525	CG	LEU	1107	-5.057	108.423	51.170	1.00	0.00	C
ATOM	10526	CD1	LEU	1107	-4.474	109.836	51.015	1.00	0.00	C
ATOM	10527	CD2	LEU	1107	-5.330	107.751	49.816	1.00	0.00	C
ATOM	10528	C	LEU	1107	-3.525	105.419	53.060	1.00	0.00	C
ATOM	10529	O	LEU	1107	-3.590	105.454	54.284	1.00	0.00	O
ATOM	10530	N	LEU	1108	-2.519	104.784	52.432	1.00	0.00	N
ATOM	10531	HN	LEU	1108	-2.532	104.721	51.414	1.00	0.00	H
ATOM	10532	CA	LEU	1108	-1.432	104.195	53.150	1.00	0.00	C
ATOM	10533	CB	LEU	1108	-1.155	102.737	52.741	1.00	0.00	C
ATOM	10534	CG	LEU	1108	-2.336	101.782	53.012	1.00	0.00	C
ATOM	10535	CD1	LEU	1108	-2.008	100.341	52.586	1.00	0.00	C
ATOM	10536	CD2	LEU	1108	-2.799	101.872	54.473	1.00	0.00	C
ATOM	10537	C	LEU	1108	-0.214	104.995	52.819	1.00	0.00	C
ATOM	10538	O	LEU	1108	0.420	104.801	51.781	1.00	0.00	O
ATOM	10539	N	LEU	1109	0.154	105.925	53.715	1.00	0.00	N
ATOM	10540	HN	LEU	1109	-0.386	106.068	54.568	1.00	0.00	H
ATOM	10541	CA	LEU	1109	1.317	106.709	53.449	1.00	0.00	C
ATOM	10542	CB	LEU	1109	1.068	108.200	53.708	1.00	0.00	C
ATOM	10543	CG	LEU	1109	0.145	108.806	52.623	1.00	0.00	C
ATOM	10544	CD1	LEU	1109	-1.196	108.071	52.492	1.00	0.00	C
ATOM	10545	CD2	LEU	1109	-0.098	110.286	52.875	1.00	0.00	C
ATOM	10546	C	LEU	1109	2.410	106.139	54.294	1.00	0.00	C
ATOM	10547	O	LEU	1109	2.578	106.487	55.462	1.00	0.00	O
ATOM	10548	N	ASP	1110	3.197	105.241	53.666	1.00	0.00	N
ATOM	10549	HN	ASP	1110	3.057	105.109	52.664	1.00	0.00	H
ATOM	10550	CA	ASP	1110	4.217	104.457	54.302	1.00	0.00	C
ATOM	10551	CB	ASP	1110	4.461	103.130	53.558	1.00	0.00	C
ATOM	10552	CG	ASP	1110	5.421	102.223	54.323	1.00	0.00	C
ATOM	10553	OD1	ASP	1110	6.156	102.709	55.224	1.00	0.00	O
ATOM	10554	OD2	ASP	1110	5.430	101.007	53.994	1.00	0.00	O
ATOM	10555	C	ASP	1110	5.501	105.207	54.313	1.00	0.00	C
ATOM	10556	O	ASP	1110	6.334	104.997	53.430	1.00	0.00	O
ATOM	10557	N	GLU	1111	5.666	106.091	55.324	1.00	0.00	N
ATOM	10558	HN	GLU	1111	4.893	106.220	55.977	1.00	0.00	H
ATOM	10559	CA	GLU	1111	6.862	106.860	55.536	1.00	0.00	C
ATOM	10560	CB	GLU	1111	8.062	106.032	56.016	1.00	0.00	C
ATOM	10561	CG	GLU	1111	7.922	105.440	57.412	1.00	0.00	C
ATOM	10562	CD	GLU	1111	9.234	104.728	57.683	1.00	0.00	C
ATOM	10563	OE1	GLU	1111	9.518	103.723	56.980	1.00	0.00	O
ATOM	10564	OE2	GLU	1111	9.980	105.191	58.588	1.00	0.00	O
ATOM	10565	C	GLU	1111	7.285	107.408	54.226	1.00	0.00	C
ATOM	10566	O	GLU	1111	8.489	107.433	53.969	1.00	0.00	O
ATOM	10567	N	ALA	1112	6.324	107.914	53.415	1.00	0.00	N
ATOM	10568	HN	ALA	1112	5.387	108.086	53.780	1.00	0.00	H
ATOM	10569	CA	ALA	1112	6.624	108.208	52.042	1.00	0.00	C
ATOM	10570	CB	ALA	1112	5.460	108.902	51.314	1.00	0.00	C
ATOM	10571	C	ALA	1112	7.811	109.111	51.963	1.00	0.00	C
ATOM	10572	O	ALA	1112	8.851	108.680	51.469	1.00	0.00	O
ATOM	10573	N	THR	1113	7.764	110.301	52.589	1.00	0.00	N
ATOM	10574	HN	THR	1113	6.931	110.591	53.101	1.00	0.00	H
ATOM	10575	CA	THR	1113	8.919	111.151	52.516	1.00	0.00	C
ATOM	10576	CB	THR	1113	8.579	112.610	52.567	1.00	0.00	C
ATOM	10577	OG1	THR	1113	7.877	112.917	53.762	1.00	0.00	O
ATOM	10578	HG1	THR	1113	7.662	113.842	53.794	1.00	0.00	H
ATOM	10579	CG2	THR	1113	7.700	112.937	51.351	1.00	0.00	C

ATOM	10580	C	THR	1113	9.794	110.818	53.684	1.00	0.00	C
ATOM	10581	O	THR	1113	9.699	111.395	54.769	1.00	0.00	O
ATOM	10582	N	SER	1114	10.583	109.746	53.502	1.00	0.00	N
ATOM	10583	HN	SER	1114	10.465	109.210	52.642	1.00	0.00	H
ATOM	10584	CA	SER	1114	11.576	109.305	54.430	1.00	0.00	C
ATOM	10585	CB	SER	1114	11.697	107.774	54.453	1.00	0.00	C
ATOM	10586	OG	SER	1114	12.611	107.378	55.463	1.00	0.00	O
ATOM	10587	HG	SER	1114	12.686	106.431	55.477	1.00	0.00	H
ATOM	10588	C	SER	1114	12.900	109.862	54.029	1.00	0.00	C
ATOM	10589	O	SER	1114	13.829	109.887	54.830	1.00	0.00	O
ATOM	10590	N	ALA	1115	13.055	110.233	52.744	1.00	0.00	N
ATOM	10591	HN	ALA	1115	12.294	110.101	52.077	1.00	0.00	H
ATOM	10592	CA	ALA	1115	14.294	110.814	52.317	1.00	0.00	C
ATOM	10593	CB	ALA	1115	15.230	109.819	51.618	1.00	0.00	C
ATOM	10594	C	ALA	1115	13.952	111.867	51.317	1.00	0.00	C
ATOM	10595	O	ALA	1115	13.488	111.563	50.217	1.00	0.00	O
ATOM	10596	N	LEU	1116	14.200	113.140	51.680	1.00	0.00	N
ATOM	10597	HN	LEU	1116	14.616	113.318	52.594	1.00	0.00	H
ATOM	10598	CA	LEU	1116	13.901	114.256	50.829	1.00	0.00	C
ATOM	10599	CB	LEU	1116	12.453	114.786	50.865	1.00	0.00	C
ATOM	10600	CG	LEU	1116	11.374	113.937	50.185	1.00	0.00	C
ATOM	10601	CD1	LEU	1116	11.697	113.715	48.698	1.00	0.00	C
ATOM	10602	CD2	LEU	1116	11.075	112.661	50.977	1.00	0.00	C
ATOM	10603	C	LEU	1116	14.660	115.433	51.333	1.00	0.00	C
ATOM	10604	O	LEU	1116	15.687	115.306	51.999	1.00	0.00	O
ATOM	10605	N	ASP	1117	14.144	116.627	50.969	1.00	0.00	N
ATOM	10606	HN	ASP	1117	13.318	116.627	50.371	1.00	0.00	H
ATOM	10607	CA	ASP	1117	14.682	117.894	51.369	1.00	0.00	C
ATOM	10608	CB	ASP	1117	15.521	118.569	50.274	1.00	0.00	C
ATOM	10609	CG	ASP	1117	14.634	118.786	49.057	1.00	0.00	C
ATOM	10610	OD1	ASP	1117	13.479	118.285	49.056	1.00	0.00	O
ATOM	10611	OD2	ASP	1117	15.106	119.452	48.100	1.00	0.00	O
ATOM	10612	C	ASP	1117	13.550	118.815	51.744	1.00	0.00	C
ATOM	10613	O	ASP	1117	12.391	118.407	51.781	1.00	0.00	O
ATOM	10614	N	THR	1118	13.877	120.103	52.003	1.00	0.00	N
ATOM	10615	HN	THR	1118	14.823	120.411	51.780	1.00	0.00	H
ATOM	10616	CA	THR	1118	12.969	121.064	52.574	1.00	0.00	C
ATOM	10617	CB	THR	1118	13.631	122.392	52.799	1.00	0.00	C
ATOM	10618	OG1	THR	1118	12.713	123.308	53.380	1.00	0.00	O
ATOM	10619	HG1	THR	1118	12.388	122.981	54.210	1.00	0.00	H
ATOM	10620	CG2	THR	1118	14.157	122.922	51.455	1.00	0.00	C
ATOM	10621	C	THR	1118	11.683	121.309	51.816	1.00	0.00	C
ATOM	10622	O	THR	1118	10.616	121.023	52.352	1.00	0.00	O
ATOM	10623	N	GLU	1119	11.715	121.828	50.570	1.00	0.00	N
ATOM	10624	HN	GLU	1119	12.613	121.998	50.118	1.00	0.00	H
ATOM	10625	CA	GLU	1119	10.491	122.146	49.869	1.00	0.00	C
ATOM	10626	CB	GLU	1119	10.673	123.065	48.654	1.00	0.00	C
ATOM	10627	CG	GLU	1119	10.901	124.525	49.044	1.00	0.00	C
ATOM	10628	CD	GLU	1119	10.577	125.382	47.830	1.00	0.00	C
ATOM	10629	OE1	GLU	1119	9.785	124.908	46.971	1.00	0.00	O
ATOM	10630	OE2	GLU	1119	11.108	126.523	47.747	1.00	0.00	O
ATOM	10631	C	GLU	1119	9.805	120.910	49.411	1.00	0.00	C
ATOM	10632	O	GLU	1119	8.583	120.880	49.276	1.00	0.00	O
ATOM	10633	N	SER	1120	10.579	119.870	49.080	1.00	0.00	N
ATOM	10634	HN	SER	1120	11.595	119.934	49.141	1.00	0.00	H
ATOM	10635	CA	SER	1120	9.947	118.668	48.639	1.00	0.00	C
ATOM	10636	CB	SER	1120	10.949	117.565	48.270	1.00	0.00	C
ATOM	10637	OG	SER	1120	11.743	117.985	47.172	1.00	0.00	O
ATOM	10638	HG	SER	1120	12.363	117.302	46.944	1.00	0.00	H
ATOM	10639	C	SER	1120	9.159	118.155	49.784	1.00	0.00	C
ATOM	10640	O	SER	1120	7.960	117.903	49.674	1.00	0.00	O
ATOM	10641	N	GLU	1121	9.823	118.025	50.944	1.00	0.00	N
ATOM	10642	HN	GLU	1121	10.792	118.328	51.037	1.00	0.00	H
ATOM	10643	CA	GLU	1121	9.120	117.447	52.040	1.00	0.00	C
ATOM	10644	CB	GLU	1121	9.994	117.234	53.288	1.00	0.00	C
ATOM	10645	CG	GLU	1121	10.601	118.512	53.860	1.00	0.00	C
ATOM	10646	CD	GLU	1121	11.501	118.112	55.017	1.00	0.00	C
ATOM	10647	OE1	GLU	1121	10.965	117.573	56.022	1.00	0.00	O
ATOM	10648	OE2	GLU	1121	12.737	118.330	54.906	1.00	0.00	O
ATOM	10649	C	GLU	1121	7.959	118.319	52.388	1.00	0.00	C
ATOM	10650	O	GLU	1121	6.826	117.849	52.429	1.00	0.00	O
ATOM	10651	N	LYS	1122	8.180	119.632	52.570	1.00	0.00	N
ATOM	10652	HN	LYS	1122	9.097	120.042	52.393	1.00	0.00	H
ATOM	10653	CA	LYS	1122	7.085	120.435	53.021	1.00	0.00	C



ATOM	10654	CB	LYS	1122	7.478	121.899	53.337	1.00	0.00	C
ATOM	10655	CG	LYS	1122	7.421	122.893	52.167	1.00	0.00	C
ATOM	10656	CD	LYS	1122	5.999	123.367	51.828	1.00	0.00	C
ATOM	10657	CE	LYS	1122	5.872	124.190	50.545	1.00	0.00	C
ATOM	10658	NZ	LYS	1122	4.465	124.146	50.081	1.00	0.00	N
ATOM	10659	HZ1	LYS	1122	4.380	124.695	49.225	1.00	0.00	H
ATOM	10660	HZ2	LYS	1122	3.809	124.446	50.802	1.00	0.00	H
ATOM	10661	HZ3	LYS	1122	4.124	123.192	49.966	1.00	0.00	H
ATOM	10662	C	LYS	1122	5.989	120.439	52.001	1.00	0.00	C
ATOM	10663	O	LYS	1122	4.834	120.186	52.336	1.00	0.00	O
ATOM	10664	N	VAL	1123	6.318	120.669	50.715	1.00	0.00	N
ATOM	10665	HN	VAL	1123	7.299	120.737	50.443	1.00	0.00	H
ATOM	10666	CA	VAL	1123	5.285	120.818	49.726	1.00	0.00	C
ATOM	10667	CB	VAL	1123	5.802	121.069	48.331	1.00	0.00	C
ATOM	10668	CG1	VAL	1123	6.531	119.819	47.810	1.00	0.00	C
ATOM	10669	CG2	VAL	1123	4.613	121.483	47.447	1.00	0.00	C
ATOM	10670	C	VAL	1123	4.469	119.568	49.693	1.00	0.00	C
ATOM	10671	O	VAL	1123	3.246	119.627	49.581	1.00	0.00	O
ATOM	10672	N	VAL	1124	5.129	118.400	49.797	1.00	0.00	N
ATOM	10673	HN	VAL	1124	6.141	118.402	49.924	1.00	0.00	H
ATOM	10674	CA	VAL	1124	4.426	117.153	49.732	1.00	0.00	C
ATOM	10675	CB	VAL	1124	5.292	115.930	49.552	1.00	0.00	C
ATOM	10676	CG1	VAL	1124	5.956	116.018	48.171	1.00	0.00	C
ATOM	10677	CG2	VAL	1124	6.299	115.800	50.698	1.00	0.00	C
ATOM	10678	C	VAL	1124	3.544	116.986	50.927	1.00	0.00	C
ATOM	10679	O	VAL	1124	2.492	116.364	50.827	1.00	0.00	O
ATOM	10680	N	GLN	1125	3.948	117.518	52.092	1.00	0.00	N
ATOM	10681	HN	GLN	1125	4.847	117.997	52.137	1.00	0.00	H
ATOM	10682	CA	GLN	1125	3.142	117.427	53.275	1.00	0.00	C
ATOM	10683	CB	GLN	1125	3.803	118.108	54.486	1.00	0.00	C
ATOM	10684	CG	GLN	1125	2.966	118.024	55.762	1.00	0.00	C
ATOM	10685	CD	GLN	1125	3.051	116.597	56.288	1.00	0.00	C
ATOM	10686	OE1	GLN	1125	2.892	115.635	55.538	1.00	0.00	O
ATOM	10687	NE2	GLN	1125	3.319	116.456	57.614	1.00	0.00	N
ATOM	10688	1HE2	GLN	1125	3.451	117.254	58.236	1.00	0.00	H
ATOM	10689	2HE2	GLN	1125	3.376	115.500	57.966	1.00	0.00	H
ATOM	10690	C	GLN	1125	1.882	118.164	52.972	1.00	0.00	C
ATOM	10691	O	GLN	1125	0.810	117.820	53.469	1.00	0.00	O
ATOM	10692	N	GLU	1126	2.013	119.241	52.177	1.00	0.00	N
ATOM	10693	HN	GLU	1126	2.947	119.496	51.857	1.00	0.00	H
ATOM	10694	CA	GLU	1126	0.910	120.045	51.759	1.00	0.00	C
ATOM	10695	CB	GLU	1126	1.387	121.307	51.012	1.00	0.00	C
ATOM	10696	CG	GLU	1126	0.313	122.379	50.822	1.00	0.00	C
ATOM	10697	CD	GLU	1126	-0.256	122.244	49.419	1.00	0.00	C
ATOM	10698	OE1	GLU	1126	0.405	122.743	48.469	1.00	0.00	O
ATOM	10699	OE2	GLU	1126	-1.354	121.643	49.276	1.00	0.00	O
ATOM	10700	C	GLU	1126	0.053	119.220	50.850	1.00	0.00	C
ATOM	10701	O	GLU	1126	-1.173	119.247	50.948	1.00	0.00	O
ATOM	10702	N	ALA	1127	0.680	118.461	49.925	1.00	0.00	N
ATOM	10703	HN	ALA	1127	1.698	118.460	49.863	1.00	0.00	H
ATOM	10704	CA	ALA	1127	-0.102	117.656	49.031	1.00	0.00	C
ATOM	10705	CB	ALA	1127	0.760	116.937	47.980	1.00	0.00	C
ATOM	10706	C	ALA	1127	-0.815	116.609	49.827	1.00	0.00	C
ATOM	10707	O	ALA	1127	-2.040	116.552	49.849	1.00	0.00	O
ATOM	10708	N	LEU	1128	-0.058	115.851	50.632	1.00	0.00	N
ATOM	10709	HN	LEU	1128	0.943	116.046	50.664	1.00	0.00	H
ATOM	10710	CA	LEU	1128	-0.555	114.785	51.451	1.00	0.00	C
ATOM	10711	CB	LEU	1128	0.587	114.264	52.355	1.00	0.00	C
ATOM	10712	CG	LEU	1128	0.266	113.149	53.372	1.00	0.00	C
ATOM	10713	CD1	LEU	1128	1.555	112.660	54.054	1.00	0.00	C
ATOM	10714	CD2	LEU	1128	-0.787	113.553	54.418	1.00	0.00	C
ATOM	10715	C	LEU	1128	-1.618	115.402	52.302	1.00	0.00	C
ATOM	10716	O	LEU	1128	-2.603	114.752	52.654	1.00	0.00	O
ATOM	10717	N	ASP	1129	-1.415	116.677	52.680	1.00	0.00	N
ATOM	10718	HN	ASP	1129	-0.577	117.160	52.356	1.00	0.00	H
ATOM	10719	CA	ASP	1129	-2.337	117.380	53.523	1.00	0.00	C
ATOM	10720	CB	ASP	1129	-1.861	118.817	53.782	1.00	0.00	C
ATOM	10721	CG	ASP	1129	-2.853	119.518	54.696	1.00	0.00	C
ATOM	10722	OD1	ASP	1129	-3.743	118.835	55.271	1.00	0.00	O
ATOM	10723	OD2	ASP	1129	-2.726	120.763	54.831	1.00	0.00	O
ATOM	10724	C	ASP	1129	-3.692	117.490	52.881	1.00	0.00	C
ATOM	10725	O	ASP	1129	-4.666	116.912	53.354	1.00	0.00	O
ATOM	10726	N	LYS	1130	-3.786	118.197	51.744	1.00	0.00	N
ATOM	10727	HN	LYS	1130	-2.943	118.595	51.330	1.00	0.00	H

ATOM	10728	CA	LYS	1130	-5.054	118.402	51.101	1.00	0.00	C
ATOM	10729	CB	LYS	1130	-5.025	119.474	50.003	1.00	0.00	C
ATOM	10730	CG	LYS	1130	-5.208	120.855	50.629	1.00	0.00	C
ATOM	10731	CD	LYS	1130	-4.873	122.050	49.744	1.00	0.00	C
ATOM	10732	CE	LYS	1130	-5.328	123.353	50.399	1.00	0.00	C
ATOM	10733	NZ	LYS	1130	-5.318	123.178	51.870	1.00	0.00	N
ATOM	10734	HZ1	LYS	1130	-5.622	124.048	52.307	1.00	0.00	H
ATOM	10735	HZ2	LYS	1130	-4.413	122.862	52.218	1.00	0.00	H
ATOM	10736	HZ3	LYS	1130	-5.873	122.377	52.171	1.00	0.00	H
ATOM	10737	C	LYS	1130	-5.523	117.101	50.563	1.00	0.00	C
ATOM	10738	O	LYS	1130	-6.703	116.905	50.281	1.00	0.00	O
ATOM	10739	N	ALA	1131	-4.565	116.192	50.360	1.00	0.00	N
ATOM	10740	HN	ALA	1131	-3.600	116.450	50.568	1.00	0.00	H
ATOM	10741	CA	ALA	1131	-4.824	114.881	49.867	1.00	0.00	C
ATOM	10742	CB	ALA	1131	-3.547	114.042	49.695	1.00	0.00	C
ATOM	10743	C	ALA	1131	-5.689	114.176	50.862	1.00	0.00	C
ATOM	10744	O	ALA	1131	-6.539	113.375	50.478	1.00	0.00	O
ATOM	10745	N	ARG	1132	-5.467	114.436	52.169	1.00	0.00	N
ATOM	10746	HN	ARG	1132	-4.752	115.117	52.423	1.00	0.00	H
ATOM	10747	CA	ARG	1132	-6.208	113.782	53.213	1.00	0.00	C
ATOM	10748	CB	ARG	1132	-5.376	113.505	54.474	1.00	0.00	C
ATOM	10749	CG	ARG	1132	-4.907	114.816	55.092	1.00	0.00	C
ATOM	10750	CD	ARG	1132	-4.008	114.718	56.319	1.00	0.00	C
ATOM	10751	NE	ARG	1132	-3.545	116.110	56.572	1.00	0.00	N
ATOM	10752	HE	ARG	1132	-4.089	116.896	56.216	1.00	0.00	H
ATOM	10753	CZ	ARG	1132	-2.399	116.346	57.276	1.00	0.00	C
ATOM	10754	NH1	ARG	1132	-1.704	115.299	57.806	1.00	0.00	N
ATOM	10755	1HH1	ARG	1132	-0.848	115.475	58.332	1.00	0.00	H
ATOM	10756	2HH1	ARG	1132	-2.046	114.345	57.691	1.00	0.00	H
ATOM	10757	NH2	ARG	1132	-1.942	117.620	57.429	1.00	0.00	N
ATOM	10758	1HH2	ARG	1132	-1.086	117.796	57.955	1.00	0.00	H
ATOM	10759	2HH2	ARG	1132	-2.462	118.403	57.033	1.00	0.00	H
ATOM	10760	C	ARG	1132	-7.333	114.673	53.643	1.00	0.00	C
ATOM	10761	O	ARG	1132	-7.644	115.678	53.008	1.00	0.00	O
ATOM	10762	N	GLU	1133	-8.041	114.245	54.710	1.00	0.00	N
ATOM	10763	HN	GLU	1133	-7.775	113.345	55.110	1.00	0.00	H
ATOM	10764	CA	GLU	1133	-9.137	114.938	55.338	1.00	0.00	C
ATOM	10765	CB	GLU	1133	-8.832	116.435	55.529	1.00	0.00	C
ATOM	10766	CG	GLU	1133	-9.790	117.155	56.479	1.00	0.00	C
ATOM	10767	CD	GLU	1133	-11.040	117.532	55.702	1.00	0.00	C
ATOM	10768	OE1	GLU	1133	-10.942	117.637	54.451	1.00	0.00	O
ATOM	10769	OE2	GLU	1133	-12.107	117.723	56.347	1.00	0.00	O
ATOM	10770	C	GLU	1133	-10.335	114.810	54.458	1.00	0.00	C
ATOM	10771	O	GLU	1133	-11.475	114.903	54.909	1.00	0.00	O
ATOM	10772	N	GLY	1134	-10.088	114.577	53.163	1.00	0.00	N
ATOM	10773	HN	GLY	1134	-9.123	114.635	52.837	1.00	0.00	H
ATOM	10774	CA	GLY	1134	-11.099	114.253	52.218	1.00	0.00	C
ATOM	10775	C	GLY	1134	-11.429	112.824	52.477	1.00	0.00	C
ATOM	10776	O	GLY	1134	-12.557	112.381	52.262	1.00	0.00	O
ATOM	10777	N	ARG	1135	-10.402	112.057	52.908	1.00	0.00	N
ATOM	10778	HN	ARG	1135	-9.505	112.489	53.131	1.00	0.00	H
ATOM	10779	CA	ARG	1135	-10.567	110.640	53.053	1.00	0.00	C
ATOM	10780	CB	ARG	1135	-9.931	109.838	51.915	1.00	0.00	C
ATOM	10781	CG	ARG	1135	-9.955	110.513	50.556	1.00	0.00	C
ATOM	10782	CD	ARG	1135	-8.931	111.646	50.479	1.00	0.00	C
ATOM	10783	NE	ARG	1135	-8.858	112.094	49.063	1.00	0.00	N
ATOM	10784	HE	ARG	1135	-9.347	112.937	48.762	1.00	0.00	H
ATOM	10785	CZ	ARG	1135	-8.129	111.363	48.173	1.00	0.00	C
ATOM	10786	NH1	ARG	1135	-7.568	110.182	48.566	1.00	0.00	N
ATOM	10787	1HH1	ARG	1135	-7.688	109.853	49.524	1.00	0.00	H
ATOM	10788	2HH1	ARG	1135	-7.022	109.635	47.900	1.00	0.00	H
ATOM	10789	NH2	ARG	1135	-7.968	111.804	46.890	1.00	0.00	N
ATOM	10790	1HH2	ARG	1135	-8.387	112.686	46.596	1.00	0.00	H
ATOM	10791	2HH2	ARG	1135	-7.422	111.257	46.224	1.00	0.00	H
ATOM	10792	C	ARG	1135	-9.759	110.177	54.219	1.00	0.00	C
ATOM	10793	O	ARG	1135	-8.869	110.876	54.702	1.00	0.00	O
ATOM	10794	N	THR	1136	-10.034	108.937	54.675	1.00	0.00	N
ATOM	10795	HN	THR	1136	-10.774	108.385	54.241	1.00	0.00	H
ATOM	10796	CA	THR	1136	-9.286	108.398	55.768	1.00	0.00	C
ATOM	10797	CB	THR	1136	-9.927	107.224	56.449	1.00	0.00	C
ATOM	10798	OG1	THR	1136	-9.299	106.988	57.699	1.00	0.00	O
ATOM	10799	HG1	THR	1136	-9.396	107.756	58.250	1.00	0.00	H
ATOM	10800	CG2	THR	1136	-9.771	105.983	55.559	1.00	0.00	C
ATOM	10801	C	THR	1136	-7.957	107.961	55.244	1.00	0.00	C

ATOM	10802	O	THR	1136	-7.830	107.534	54.096	1.00	0.00	O
ATOM	10803	N	CYS	1137	-6.906	108.093	56.079	1.00	0.00	N
ATOM	10804	HN	CYS	1137	-7.022	108.493	57.010	1.00	0.00	H
ATOM	10805	CA	CYS	1137	-5.624	107.655	55.620	1.00	0.00	C
ATOM	10806	CB	CYS	1137	-4.922	108.671	54.696	1.00	0.00	C
ATOM	10807	SG	CYS	1137	-4.601	110.285	55.470	1.00	0.00	S
ATOM	10808	C	CYS	1137	-4.740	107.360	56.790	1.00	0.00	C
ATOM	10809	O	CYS	1137	-4.634	108.130	57.744	1.00	0.00	O
ATOM	10810	N	ILE	1138	-4.047	106.211	56.734	1.00	0.00	N
ATOM	10811	HN	ILE	1138	-4.147	105.585	55.935	1.00	0.00	H
ATOM	10812	CA	ILE	1138	-3.170	105.878	57.806	1.00	0.00	C
ATOM	10813	CB	ILE	1138	-3.101	104.400	58.067	1.00	0.00	C
ATOM	10814	CG1	ILE	1138	-4.514	103.851	58.331	1.00	0.00	C
ATOM	10815	CG2	ILE	1138	-2.146	104.161	59.248	1.00	0.00	C
ATOM	10816	CD1	ILE	1138	-4.585	102.324	58.327	1.00	0.00	C
ATOM	10817	C	ILE	1138	-1.833	106.356	57.372	1.00	0.00	C
ATOM	10818	O	ILE	1138	-1.167	105.747	56.532	1.00	0.00	O
ATOM	10819	N	VAL	1139	-1.437	107.520	57.914	1.00	0.00	N
ATOM	10820	HN	VAL	1139	-2.056	108.042	58.534	1.00	0.00	H
ATOM	10821	CA	VAL	1139	-0.139	108.009	57.607	1.00	0.00	C
ATOM	10822	CB	VAL	1139	-0.017	109.512	57.579	1.00	0.00	C
ATOM	10823	CG1	VAL	1139	-0.914	110.038	56.453	1.00	0.00	C
ATOM	10824	CG2	VAL	1139	-0.370	110.110	58.947	1.00	0.00	C
ATOM	10825	C	VAL	1139	0.721	107.446	58.682	1.00	0.00	C
ATOM	10826	O	VAL	1139	0.521	107.699	59.871	1.00	0.00	O
ATOM	10827	N	ILE	1140	1.688	106.601	58.292	1.00	0.00	N
ATOM	10828	HN	ILE	1140	1.831	106.352	57.313	1.00	0.00	H
ATOM	10829	CA	ILE	1140	2.503	106.075	59.338	1.00	0.00	C
ATOM	10830	CB	ILE	1140	2.580	104.578	59.453	1.00	0.00	C
ATOM	10831	CG1	ILE	1140	3.520	103.974	58.409	1.00	0.00	C
ATOM	10832	CG2	ILE	1140	1.146	104.053	59.275	1.00	0.00	C
ATOM	10833	CD1	ILE	1140	3.088	104.277	56.997	1.00	0.00	C
ATOM	10834	C	ILE	1140	3.862	106.522	58.963	1.00	0.00	C
ATOM	10835	O	ILE	1140	4.161	106.676	57.780	1.00	0.00	O
ATOM	10836	N	ALA	1141	4.720	106.800	59.955	1.00	0.00	N
ATOM	10837	HN	ALA	1141	4.469	106.686	60.937	1.00	0.00	H
ATOM	10838	CA	ALA	1141	6.004	107.264	59.550	1.00	0.00	C
ATOM	10839	CB	ALA	1141	5.973	108.676	58.937	1.00	0.00	C
ATOM	10840	C	ALA	1141	6.933	107.306	60.713	1.00	0.00	C
ATOM	10841	O	ALA	1141	6.568	107.046	61.859	1.00	0.00	O
ATOM	10842	N	HIS	1142	8.218	107.504	60.369	1.00	0.00	N
ATOM	10843	HN	HIS	1142	8.435	107.496	59.372	1.00	0.00	H
ATOM	10844	CA	HIS	1142	9.307	107.724	61.266	1.00	0.00	C
ATOM	10845	ND1	HIS	1142	11.811	106.320	62.785	1.00	0.00	N
ATOM	10846	HD1	HIS	1142	11.256	105.465	62.827	1.00	0.00	H
ATOM	10847	CG	HIS	1142	11.701	107.322	61.850	1.00	0.00	C
ATOM	10848	CB	HIS	1142	10.691	107.315	60.737	1.00	0.00	C
ATOM	10849	NE2	HIS	1142	13.330	107.851	63.320	1.00	0.00	N
ATOM	10850	HE2	HIS	1142	14.083	108.346	63.798	1.00	0.00	H
ATOM	10851	CD2	HIS	1142	12.639	108.252	62.192	1.00	0.00	C
ATOM	10852	CE1	HIS	1142	12.799	106.685	63.641	1.00	0.00	C
ATOM	10853	C	HIS	1142	9.365	109.178	61.610	1.00	0.00	C
ATOM	10854	O	HIS	1142	10.185	109.585	62.428	1.00	0.00	O
ATOM	10855	N	ARG	1143	8.604	110.033	60.898	1.00	0.00	N
ATOM	10856	HN	ARG	1143	7.981	109.696	60.164	1.00	0.00	H
ATOM	10857	CA	ARG	1143	8.696	111.433	61.204	1.00	0.00	C
ATOM	10858	CB	ARG	1143	8.078	112.337	60.131	1.00	0.00	C
ATOM	10859	CG	ARG	1143	8.918	112.399	58.861	1.00	0.00	C
ATOM	10860	CD	ARG	1143	10.215	113.186	59.048	1.00	0.00	C
ATOM	10861	NE	ARG	1143	10.928	113.165	57.744	1.00	0.00	N
ATOM	10862	HE	ARG	1143	11.643	112.461	57.560	1.00	0.00	H
ATOM	10863	CZ	ARG	1143	10.619	114.095	56.794	1.00	0.00	C
ATOM	10864	NH1	ARG	1143	9.689	115.057	57.061	1.00	0.00	N
ATOM	10865	1HH1	ARG	1143	9.230	115.085	57.971	1.00	0.00	H
ATOM	10866	2HH1	ARG	1143	9.458	115.752	56.351	1.00	0.00	H
ATOM	10867	NH2	ARG	1143	11.233	114.057	55.577	1.00	0.00	N
ATOM	10868	1HH2	ARG	1143	11.928	113.338	55.377	1.00	0.00	H
ATOM	10869	2HH2	ARG	1143	11.002	114.752	54.867	1.00	0.00	H
ATOM	10870	C	ARG	1143	7.956	111.682	62.482	1.00	0.00	C
ATOM	10871	O	ARG	1143	6.855	112.229	62.500	1.00	0.00	O
ATOM	10872	N	LEU	1144	8.626	111.381	63.605	1.00	0.00	N
ATOM	10873	HN	LEU	1144	9.586	111.047	63.523	1.00	0.00	H
ATOM	10874	CA	LEU	1144	8.058	111.506	64.912	1.00	0.00	C
ATOM	10875	CB	LEU	1144	9.054	111.217	66.050	1.00	0.00	C

ATOM	10876	CG	LEU	1144	9.374	109.734	66.307	1.00	0.00	C
ATOM	10877	CD1	LEU	1144	8.140	109.006	66.852	1.00	0.00	C
ATOM	10878	CD2	LEU	1144	10.006	109.037	65.097	1.00	0.00	C
ATOM	10879	C	LEU	1144	7.643	112.925	65.089	1.00	0.00	C
ATOM	10880	O	LEU	1144	6.740	113.219	65.871	1.00	0.00	O
ATOM	10881	N	SER	1145	8.369	113.842	64.428	1.00	0.00	N
ATOM	10882	HN	SER	1145	9.136	113.513	63.842	1.00	0.00	H
ATOM	10883	CA	SER	1145	8.131	115.256	64.496	1.00	0.00	C
ATOM	10884	CB	SER	1145	9.154	116.030	63.659	1.00	0.00	C
ATOM	10885	OG	SER	1145	10.456	115.539	63.926	1.00	0.00	O
ATOM	10886	HG	SER	1145	11.090	116.019	63.407	1.00	0.00	H
ATOM	10887	C	SER	1145	6.802	115.654	63.909	1.00	0.00	C
ATOM	10888	O	SER	1145	5.874	116.041	64.616	1.00	0.00	O
ATOM	10889	N	THR	1146	6.701	115.517	62.572	1.00	0.00	N
ATOM	10890	HN	THR	1146	7.469	115.030	62.111	1.00	0.00	H
ATOM	10891	CA	THR	1146	5.635	115.978	61.715	1.00	0.00	C
ATOM	10892	CB	THR	1146	5.966	115.883	60.253	1.00	0.00	C
ATOM	10893	OG1	THR	1146	6.212	114.535	59.882	1.00	0.00	O
ATOM	10894	HG1	THR	1146	5.447	113.998	60.052	1.00	0.00	H
ATOM	10895	CG2	THR	1146	7.206	116.753	59.977	1.00	0.00	C
ATOM	10896	C	THR	1146	4.360	115.235	61.959	1.00	0.00	C
ATOM	10897	O	THR	1146	3.304	115.613	61.457	1.00	0.00	O
ATOM	10898	N	ILE	1147	4.438	114.108	62.670	1.00	0.00	N
ATOM	10899	HN	ILE	1147	5.348	113.841	63.046	1.00	0.00	H
ATOM	10900	CA	ILE	1147	3.320	113.250	62.938	1.00	0.00	C
ATOM	10901	CB	ILE	1147	3.702	111.942	63.554	1.00	0.00	C
ATOM	10902	CG1	ILE	1147	2.544	110.944	63.390	1.00	0.00	C
ATOM	10903	CG2	ILE	1147	4.131	112.189	65.007	1.00	0.00	C
ATOM	10904	CD1	ILE	1147	2.974	109.490	63.551	1.00	0.00	C
ATOM	10905	C	ILE	1147	2.249	113.928	63.762	1.00	0.00	C
ATOM	10906	O	ILE	1147	1.103	113.479	63.779	1.00	0.00	O
ATOM	10907	N	GLN	1148	2.587	115.015	64.482	1.00	0.00	N
ATOM	10908	HN	GLN	1148	3.524	115.398	64.354	1.00	0.00	H
ATOM	10909	CA	GLN	1148	1.714	115.674	65.422	1.00	0.00	C
ATOM	10910	CB	GLN	1148	2.252	117.050	65.846	1.00	0.00	C
ATOM	10911	CG	GLN	1148	3.304	117.033	66.952	1.00	0.00	C
ATOM	10912	CD	GLN	1148	2.563	117.405	68.225	1.00	0.00	C
ATOM	10913	OE1	GLN	1148	1.508	116.851	68.530	1.00	0.00	O
ATOM	10914	NE2	GLN	1148	3.119	118.392	68.977	1.00	0.00	N
ATOM	10915	1HE2	GLN	1148	2.621	118.642	69.832	1.00	0.00	H
ATOM	10916	2HE2	GLN	1148	3.994	118.851	68.724	1.00	0.00	H
ATOM	10917	C	GLN	1148	0.347	115.936	64.852	1.00	0.00	C
ATOM	10918	O	GLN	1148	-0.637	115.837	65.585	1.00	0.00	O
ATOM	10919	N	ASN	1149	0.214	116.308	63.567	1.00	0.00	N
ATOM	10920	HN	ASN	1149	1.029	116.404	62.961	1.00	0.00	H
ATOM	10921	CA	ASN	1149	-1.112	116.566	63.073	1.00	0.00	C
ATOM	10922	CB	ASN	1149	-1.078	117.377	61.760	1.00	0.00	C
ATOM	10923	CG	ASN	1149	-0.211	116.626	60.755	1.00	0.00	C
ATOM	10924	OD1	ASN	1149	0.281	115.534	61.032	1.00	0.00	O
ATOM	10925	ND2	ASN	1149	-0.006	117.233	59.555	1.00	0.00	N
ATOM	10926	1HD2	ASN	1149	-0.414	118.139	59.325	1.00	0.00	H
ATOM	10927	2HD2	ASN	1149	0.574	116.731	58.883	1.00	0.00	H
ATOM	10928	C	ASN	1149	-1.810	115.256	62.816	1.00	0.00	C
ATOM	10929	O	ASN	1149	-2.162	114.946	61.679	1.00	0.00	O
ATOM	10930	N	ALA	1150	-2.098	114.471	63.881	1.00	0.00	N
ATOM	10931	HN	ALA	1150	-1.872	114.784	64.825	1.00	0.00	H
ATOM	10932	CA	ALA	1150	-2.726	113.190	63.674	1.00	0.00	C
ATOM	10933	CB	ALA	1150	-1.834	111.994	64.051	1.00	0.00	C
ATOM	10934	C	ALA	1150	-3.974	113.095	64.501	1.00	0.00	C
ATOM	10935	O	ALA	1150	-4.057	113.667	65.587	1.00	0.00	O
ATOM	10936	N	ASP	1151	-5.017	112.424	63.959	1.00	0.00	N
ATOM	10937	HN	ASP	1151	-4.935	112.033	63.020	1.00	0.00	H
ATOM	10938	CA	ASP	1151	-6.240	112.258	64.697	1.00	0.00	C
ATOM	10939	CB	ASP	1151	-7.402	111.727	63.839	1.00	0.00	C
ATOM	10940	CG	ASP	1151	-7.856	112.858	62.928	1.00	0.00	C
ATOM	10941	OD1	ASP	1151	-7.140	113.892	62.867	1.00	0.00	O
ATOM	10942	OD2	ASP	1151	-8.928	112.706	62.282	1.00	0.00	O
ATOM	10943	C	ASP	1151	-6.046	111.305	65.837	1.00	0.00	C
ATOM	10944	O	ASP	1151	-6.223	111.665	67.000	1.00	0.00	O
ATOM	10945	N	LEU	1152	-5.632	110.062	65.522	1.00	0.00	N
ATOM	10946	HN	LEU	1152	-5.449	109.833	64.545	1.00	0.00	H
ATOM	10947	CA	LEU	1152	-5.441	109.050	66.523	1.00	0.00	C
ATOM	10948	CB	LEU	1152	-6.376	107.842	66.341	1.00	0.00	C
ATOM	10949	CG	LEU	1152	-6.078	106.672	67.297	1.00	0.00	C

ATOM	10950	CD1	LEU	1152	-6.312	107.061	68.765	1.00	0.00	C
ATOM	10951	CD2	LEU	1152	-6.839	105.405	66.872	1.00	0.00	C
ATOM	10952	C	LEU	1152	-4.061	108.527	66.340	1.00	0.00	C
ATOM	10953	O	LEU	1152	-3.778	107.848	65.355	1.00	0.00	O
ATOM	10954	N	ILE	1153	-3.178	108.786	67.317	1.00	0.00	N
ATOM	10955	HN	ILE	1153	-3.482	109.277	68.158	1.00	0.00	H
ATOM	10956	CA	ILE	1153	-1.812	108.377	67.187	1.00	0.00	C
ATOM	10957	CB	ILE	1153	-0.857	109.368	67.791	1.00	0.00	C
ATOM	10958	CG1	ILE	1153	-0.988	110.742	67.110	1.00	0.00	C
ATOM	10959	CG2	ILE	1153	0.557	108.769	67.716	1.00	0.00	C
ATOM	10960	CD1	ILE	1153	-2.303	111.465	67.406	1.00	0.00	C
ATOM	10961	C	ILE	1153	-1.660	107.125	67.982	1.00	0.00	C
ATOM	10962	O	ILE	1153	-1.807	107.136	69.203	1.00	0.00	O
ATOM	10963	N	VAL	1154	-1.353	106.008	67.294	1.00	0.00	N
ATOM	10964	HN	VAL	1154	-1.212	106.052	66.285	1.00	0.00	H
ATOM	10965	CA	VAL	1154	-1.225	104.758	67.982	1.00	0.00	C
ATOM	10966	CB	VAL	1154	-1.917	103.618	67.289	1.00	0.00	C
ATOM	10967	CG1	VAL	1154	-1.612	102.338	68.082	1.00	0.00	C
ATOM	10968	CG2	VAL	1154	-3.417	103.930	67.146	1.00	0.00	C
ATOM	10969	C	VAL	1154	0.220	104.390	68.029	1.00	0.00	C
ATOM	10970	O	VAL	1154	0.910	104.372	67.010	1.00	0.00	O
ATOM	10971	N	VAL	1155	0.713	104.083	69.243	1.00	0.00	N
ATOM	10972	HN	VAL	1155	0.112	104.146	70.064	1.00	0.00	H
ATOM	10973	CA	VAL	1155	2.076	103.668	69.390	1.00	0.00	C
ATOM	10974	CB	VAL	1155	2.735	104.197	70.637	1.00	0.00	C
ATOM	10975	CG1	VAL	1155	4.161	103.625	70.743	1.00	0.00	C
ATOM	10976	CG2	VAL	1155	2.683	105.733	70.607	1.00	0.00	C
ATOM	10977	C	VAL	1155	2.055	102.191	69.512	1.00	0.00	C
ATOM	10978	O	VAL	1155	1.593	101.639	70.512	1.00	0.00	O
ATOM	10979	N	PHE	1156	2.565	101.488	68.490	1.00	0.00	N
ATOM	10980	HN	PHE	1156	2.950	101.918	67.649	1.00	0.00	H
ATOM	10981	CA	PHE	1156	2.515	100.078	68.699	1.00	0.00	C
ATOM	10982	CB	PHE	1156	1.763	99.251	67.626	1.00	0.00	C
ATOM	10983	CG	PHE	1156	2.567	99.044	66.391	1.00	0.00	C
ATOM	10984	CD1	PHE	1156	3.380	97.938	66.306	1.00	0.00	C
ATOM	10985	CD2	PHE	1156	2.503	99.914	65.327	1.00	0.00	C
ATOM	10986	CE1	PHE	1156	4.132	97.704	65.182	1.00	0.00	C
ATOM	10987	CE2	PHE	1156	3.254	99.685	64.198	1.00	0.00	C
ATOM	10988	CZ	PHE	1156	4.070	98.580	64.126	1.00	0.00	C
ATOM	10989	C	PHE	1156	3.910	99.577	68.849	1.00	0.00	C
ATOM	10990	O	PHE	1156	4.839	100.062	68.205	1.00	0.00	O
ATOM	10991	N	GLN	1157	4.096	98.647	69.806	1.00	0.00	N
ATOM	10992	HN	GLN	1157	3.350	98.448	70.473	1.00	0.00	H
ATOM	10993	CA	GLN	1157	5.331	97.940	69.891	1.00	0.00	C
ATOM	10994	CB	GLN	1157	5.578	97.236	71.234	1.00	0.00	C
ATOM	10995	CG	GLN	1157	6.913	96.487	71.291	1.00	0.00	C
ATOM	10996	CD	GLN	1157	8.047	97.505	71.206	1.00	0.00	C
ATOM	10997	OE1	GLN	1157	7.897	98.579	70.624	1.00	0.00	O
ATOM	10998	NE2	GLN	1157	9.220	97.160	71.800	1.00	0.00	N
ATOM	10999	1HE2	GLN	1157	9.978	97.840	71.743	1.00	0.00	H
ATOM	11000	2HE2	GLN	1157	9.344	96.270	72.282	1.00	0.00	H
ATOM	11001	C	GLN	1157	5.036	96.918	68.868	1.00	0.00	C
ATOM	11002	O	GLN	1157	3.855	96.646	68.681	1.00	0.00	O
ATOM	11003	N	ASN	1158	6.048	96.286	68.247	1.00	0.00	N
ATOM	11004	HN	ASN	1158	6.987	96.341	68.641	1.00	0.00	H
ATOM	11005	CA	ASN	1158	5.834	95.531	67.035	1.00	0.00	C
ATOM	11006	CB	ASN	1158	7.025	94.621	66.679	1.00	0.00	C
ATOM	11007	CG	ASN	1158	8.107	95.454	66.007	1.00	0.00	C
ATOM	11008	OD1	ASN	1158	7.912	95.969	64.907	1.00	0.00	O
ATOM	11009	ND2	ASN	1158	9.284	95.580	66.676	1.00	0.00	N
ATOM	11010	1HD2	ASN	1158	9.446	95.153	67.588	1.00	0.00	H
ATOM	11011	2HD2	ASN	1158	10.009	96.138	66.226	1.00	0.00	H
ATOM	11012	C	ASN	1158	4.604	94.653	67.053	1.00	0.00	C
ATOM	11013	O	ASN	1158	3.658	94.901	66.325	1.00	0.00	O
ATOM	11014	N	GLY	1159	4.514	93.632	67.892	1.00	0.00	N
ATOM	11015	HN	GLY	1159	5.280	93.449	68.540	1.00	0.00	H
ATOM	11016	CA	GLY	1159	3.355	92.775	67.907	1.00	0.00	C
ATOM	11017	C	GLY	1159	2.149	93.376	68.574	1.00	0.00	C
ATOM	11018	O	GLY	1159	1.019	93.042	68.220	1.00	0.00	O
ATOM	11019	N	ARG	1160	2.358	94.219	69.606	1.00	0.00	N
ATOM	11020	HN	ARG	1160	3.305	94.544	69.803	1.00	0.00	H
ATOM	11021	CA	ARG	1160	1.270	94.669	70.435	1.00	0.00	C
ATOM	11022	CB	ARG	1160	1.380	94.022	71.823	1.00	0.00	C
ATOM	11023	CG	ARG	1160	2.813	94.089	72.362	1.00	0.00	C

ATOM	11024	CD	ARG	1160	3.318	95.493	72.686	1.00	0.00	C
ATOM	11025	NE	ARG	1160	3.349	95.621	74.172	1.00	0.00	N
ATOM	11026	HE	ARG	1160	4.214	95.429	74.677	1.00	0.00	H
ATOM	11027	CZ	ARG	1160	2.232	95.993	74.863	1.00	0.00	C
ATOM	11028	NH1	ARG	1160	1.075	96.268	74.192	1.00	0.00	N
ATOM	11029	1HH1	ARG	1160	1.044	96.207	73.174	1.00	0.00	H
ATOM	11030	2HH1	ARG	1160	0.240	96.546	74.708	1.00	0.00	H
ATOM	11031	NH2	ARG	1160	2.273	96.074	76.225	1.00	0.00	N
ATOM	11032	1HH2	ARG	1160	3.137	95.869	76.726	1.00	0.00	H
ATOM	11033	2HH2	ARG	1160	1.438	96.352	76.741	1.00	0.00	H
ATOM	11034	C	ARG	1160	1.194	96.166	70.561	1.00	0.00	C
ATOM	11035	O	ARG	1160	2.208	96.860	70.586	1.00	0.00	O
ATOM	11036	N	VAL	1161	-0.047	96.705	70.662	1.00	0.00	N
ATOM	11037	HN	VAL	1161	-0.862	96.093	70.686	1.00	0.00	H
ATOM	11038	CA	VAL	1161	-0.226	98.131	70.736	1.00	0.00	C
ATOM	11039	CB	VAL	1161	-1.477	98.586	70.036	1.00	0.00	C
ATOM	11040	CG1	VAL	1161	-2.676	97.812	70.610	1.00	0.00	C
ATOM	11041	CG2	VAL	1161	-1.599	100.111	70.178	1.00	0.00	C
ATOM	11042	C	VAL	1161	-0.297	98.553	72.178	1.00	0.00	C
ATOM	11043	O	VAL	1161	-1.219	98.180	72.903	1.00	0.00	O
ATOM	11044	N	LYS	1162	0.750	99.264	72.649	1.00	0.00	N
ATOM	11045	HN	LYS	1162	1.524	99.471	72.017	1.00	0.00	H
ATOM	11046	CA	LYS	1162	0.820	99.741	74.001	1.00	0.00	C
ATOM	11047	CB	LYS	1162	2.258	99.855	74.520	1.00	0.00	C
ATOM	11048	CG	LYS	1162	2.286	99.928	76.044	1.00	0.00	C
ATOM	11049	CD	LYS	1162	3.644	99.610	76.661	1.00	0.00	C
ATOM	11050	CE	LYS	1162	3.543	99.361	78.163	1.00	0.00	C
ATOM	11051	NZ	LYS	1162	2.604	98.245	78.417	1.00	0.00	N
ATOM	11052	HZ1	LYS	1162	2.536	98.079	79.421	1.00	0.00	H
ATOM	11053	HZ2	LYS	1162	2.860	97.402	77.903	1.00	0.00	H
ATOM	11054	HZ3	LYS	1162	1.691	98.405	77.991	1.00	0.00	H
ATOM	11055	C	LYS	1162	0.122	101.052	74.278	1.00	0.00	C
ATOM	11056	O	LYS	1162	-0.543	101.193	75.303	1.00	0.00	O
ATOM	11057	N	GLU	1163	0.258	102.064	73.393	1.00	0.00	N
ATOM	11058	HN	GLU	1163	0.716	101.913	72.494	1.00	0.00	H
ATOM	11059	CA	GLU	1163	-0.259	103.361	73.747	1.00	0.00	C
ATOM	11060	CB	GLU	1163	0.844	104.387	74.053	1.00	0.00	C
ATOM	11061	CG	GLU	1163	1.663	104.045	75.296	1.00	0.00	C
ATOM	11062	CD	GLU	1163	2.862	104.977	75.332	1.00	0.00	C
ATOM	11063	OE1	GLU	1163	2.667	106.212	75.172	1.00	0.00	O
ATOM	11064	OE2	GLU	1163	3.995	104.459	75.520	1.00	0.00	O
ATOM	11065	C	GLU	1163	-1.023	103.919	72.594	1.00	0.00	C
ATOM	11066	O	GLU	1163	-0.990	103.370	71.494	1.00	0.00	O
ATOM	11067	N	HIS	1164	-1.784	105.007	72.848	1.00	0.00	N
ATOM	11068	HN	HIS	1164	-1.872	105.353	73.803	1.00	0.00	H
ATOM	11069	CA	HIS	1164	-2.468	105.677	71.780	1.00	0.00	C
ATOM	11070	ND1	HIS	1164	-5.785	104.730	71.687	1.00	0.00	N
ATOM	11071	HD1	HIS	1164	-6.071	105.611	71.261	1.00	0.00	H
ATOM	11072	CG	HIS	1164	-4.528	104.164	71.647	1.00	0.00	C
ATOM	11073	CB	HIS	1164	-3.363	104.765	70.921	1.00	0.00	C
ATOM	11074	NE2	HIS	1164	-5.905	102.822	72.827	1.00	0.00	N
ATOM	11075	HE2	HIS	1164	-6.261	102.043	73.381	1.00	0.00	H
ATOM	11076	CD2	HIS	1164	-4.619	103.004	72.348	1.00	0.00	C
ATOM	11077	CE1	HIS	1164	-6.567	103.884	72.405	1.00	0.00	C
ATOM	11078	C	HIS	1164	-3.304	106.786	72.341	1.00	0.00	C
ATOM	11079	O	HIS	1164	-3.566	106.837	73.543	1.00	0.00	O
ATOM	11080	N	GLY	1165	-3.735	107.717	71.460	1.00	0.00	N
ATOM	11081	HN	GLY	1165	-3.483	107.622	70.476	1.00	0.00	H
ATOM	11082	CA	GLY	1165	-4.538	108.836	71.871	1.00	0.00	C
ATOM	11083	C	GLY	1165	-4.040	110.048	71.136	1.00	0.00	C
ATOM	11084	O	GLY	1165	-3.460	109.930	70.058	1.00	0.00	O
ATOM	11085	N	THR	1166	-4.280	111.255	71.694	1.00	0.00	N
ATOM	11086	HN	THR	1166	-4.799	111.308	72.571	1.00	0.00	H
ATOM	11087	CA	THR	1166	-3.815	112.468	71.071	1.00	0.00	C
ATOM	11088	CB	THR	1166	-4.673	113.665	71.358	1.00	0.00	C
ATOM	11089	OG1	THR	1166	-4.151	114.803	70.691	1.00	0.00	O
ATOM	11090	HG1	THR	1166	-4.108	114.658	69.753	1.00	0.00	H
ATOM	11091	CG2	THR	1166	-4.742	113.900	72.875	1.00	0.00	C
ATOM	11092	C	THR	1166	-2.417	112.745	71.546	1.00	0.00	C
ATOM	11093	O	THR	1166	-1.989	112.205	72.563	1.00	0.00	O
ATOM	11094	N	HIS	1167	-1.675	113.628	70.836	1.00	0.00	N
ATOM	11095	HN	HIS	1167	-2.112	114.170	70.091	1.00	0.00	H
ATOM	11096	CA	HIS	1167	-0.273	113.810	71.122	1.00	0.00	C
ATOM	11097	ND1	HIS	1167	2.567	115.193	71.594	1.00	0.00	N

ATOM	11098	HD1	HIS	1167	2.133	115.510	72.461	1.00	0.00	H
ATOM	11099	CG	HIS	1167	1.917	114.845	70.427	1.00	0.00	C
ATOM	11100	CB	HIS	1167	0.424	114.867	70.247	1.00	0.00	C
ATOM	11101	NE2	HIS	1167	4.144	114.611	70.139	1.00	0.00	N
ATOM	11102	HE2	HIS	1167	5.053	114.415	69.719	1.00	0.00	H
ATOM	11103	CD2	HIS	1167	2.897	114.494	69.550	1.00	0.00	C
ATOM	11104	CE1	HIS	1167	3.895	115.032	71.364	1.00	0.00	C
ATOM	11105	C	HIS	1167	-0.030	114.229	72.538	1.00	0.00	C
ATOM	11106	O	HIS	1167	0.702	113.553	73.258	1.00	0.00	O
ATOM	11107	N	GLN	1168	-0.659	115.325	72.998	1.00	0.00	N
ATOM	11108	HN	GLN	1168	-1.329	115.814	72.405	1.00	0.00	H
ATOM	11109	CA	GLN	1168	-0.388	115.808	74.324	1.00	0.00	C
ATOM	11110	CB	GLN	1168	-1.161	117.085	74.708	1.00	0.00	C
ATOM	11111	CG	GLN	1168	-2.677	116.913	74.866	1.00	0.00	C
ATOM	11112	CD	GLN	1168	-3.339	116.969	73.499	1.00	0.00	C
ATOM	11113	OE1	GLN	1168	-3.124	116.106	72.654	1.00	0.00	O
ATOM	11114	NE2	GLN	1168	-4.175	118.017	73.271	1.00	0.00	N
ATOM	11115	1HE2	GLN	1168	-4.354	118.735	73.974	1.00	0.00	H
ATOM	11116	2HE2	GLN	1168	-4.619	118.055	72.354	1.00	0.00	H
ATOM	11117	C	GLN	1168	-0.816	114.747	75.276	1.00	0.00	C
ATOM	11118	O	GLN	1168	-0.197	114.543	76.320	1.00	0.00	O
ATOM	11119	N	GLN	1169	-1.911	114.049	74.934	1.00	0.00	N
ATOM	11120	HN	GLN	1169	-2.381	114.259	74.053	1.00	0.00	H
ATOM	11121	CA	GLN	1169	-2.433	113.018	75.776	1.00	0.00	C
ATOM	11122	CB	GLN	1169	-3.705	112.388	75.178	1.00	0.00	C
ATOM	11123	CG	GLN	1169	-4.429	111.384	76.078	1.00	0.00	C
ATOM	11124	CD	GLN	1169	-5.655	110.888	75.318	1.00	0.00	C
ATOM	11125	OE1	GLN	1169	-6.191	111.582	74.455	1.00	0.00	O
ATOM	11126	NE2	GLN	1169	-6.117	109.652	75.646	1.00	0.00	N
ATOM	11127	1HE2	GLN	1169	-5.673	109.077	76.361	1.00	0.00	H
ATOM	11128	2HE2	GLN	1169	-6.937	109.320	75.138	1.00	0.00	H
ATOM	11129	C	GLN	1169	-1.379	111.963	75.897	1.00	0.00	C
ATOM	11130	O	GLN	1169	-1.143	111.440	76.983	1.00	0.00	O
ATOM	11131	N	LEU	1170	-0.703	111.642	74.777	1.00	0.00	N
ATOM	11132	HN	LEU	1170	-0.945	112.118	73.908	1.00	0.00	H
ATOM	11133	CA	LEU	1170	0.345	110.657	74.754	1.00	0.00	C
ATOM	11134	CB	LEU	1170	0.922	110.460	73.338	1.00	0.00	C
ATOM	11135	CG	LEU	1170	0.181	109.452	72.436	1.00	0.00	C
ATOM	11136	CD1	LEU	1170	0.658	108.022	72.713	1.00	0.00	C
ATOM	11137	CD2	LEU	1170	-1.341	109.546	72.581	1.00	0.00	C
ATOM	11138	C	LEU	1170	1.478	111.093	75.627	1.00	0.00	C
ATOM	11139	O	LEU	1170	2.001	110.310	76.420	1.00	0.00	O
ATOM	11140	N	LEU	1171	1.880	112.369	75.513	1.00	0.00	N
ATOM	11141	HN	LEU	1171	1.402	112.991	74.860	1.00	0.00	H
ATOM	11142	CA	LEU	1171	2.970	112.869	76.295	1.00	0.00	C
ATOM	11143	CB	LEU	1171	3.253	114.350	76.007	1.00	0.00	C
ATOM	11144	CG	LEU	1171	4.417	114.934	76.822	1.00	0.00	C
ATOM	11145	CD1	LEU	1171	5.744	114.245	76.468	1.00	0.00	C
ATOM	11146	CD2	LEU	1171	4.483	116.460	76.663	1.00	0.00	C
ATOM	11147	C	LEU	1171	2.531	112.747	77.716	1.00	0.00	C
ATOM	11148	O	LEU	1171	3.322	112.435	78.605	1.00	0.00	O
ATOM	11149	N	ALA	1172	1.224	112.964	77.948	1.00	0.00	N
ATOM	11150	HN	ALA	1172	0.607	113.184	77.166	1.00	0.00	H
ATOM	11151	CA	ALA	1172	0.684	112.892	79.270	1.00	0.00	C
ATOM	11152	CB	ALA	1172	-0.843	113.071	79.300	1.00	0.00	C
ATOM	11153	C	ALA	1172	0.991	111.521	79.770	1.00	0.00	C
ATOM	11154	O	ALA	1172	1.361	111.354	80.930	1.00	0.00	O
ATOM	11155	N	GLN	1173	0.847	110.489	78.913	1.00	0.00	N
ATOM	11156	HN	GLN	1173	0.468	110.615	77.974	1.00	0.00	H
ATOM	11157	CA	GLN	1173	1.257	109.207	79.399	1.00	0.00	C
ATOM	11158	CB	GLN	1173	0.689	107.979	78.658	1.00	0.00	C
ATOM	11159	CG	GLN	1173	-0.796	107.696	78.901	1.00	0.00	C
ATOM	11160	CD	GLN	1173	-1.566	108.055	77.642	1.00	0.00	C
ATOM	11161	OE1	GLN	1173	-2.099	109.155	77.514	1.00	0.00	O
ATOM	11162	NE2	GLN	1173	-1.628	107.093	76.683	1.00	0.00	N
ATOM	11163	1HE2	GLN	1173	-2.145	107.334	75.837	1.00	0.00	H
ATOM	11164	2HE2	GLN	1173	-1.186	106.180	76.789	1.00	0.00	H
ATOM	11165	C	GLN	1173	2.734	109.162	79.211	1.00	0.00	C
ATOM	11166	O	GLN	1173	3.237	108.568	78.259	1.00	0.00	O
ATOM	11167	N	LYS	1174	3.474	109.771	80.153	1.00	0.00	N
ATOM	11168	HN	LYS	1174	3.026	110.201	80.963	1.00	0.00	H
ATOM	11169	CA	LYS	1174	4.895	109.810	80.008	1.00	0.00	C
ATOM	11170	CB	LYS	1174	5.623	110.511	81.167	1.00	0.00	C
ATOM	11171	CG	LYS	1174	5.065	111.892	81.509	1.00	0.00	C

ATOM	11172	CD	LYS	1174	3.724	111.800	82.241	1.00	0.00	C
ATOM	11173	CE	LYS	1174	3.113	113.148	82.625	1.00	0.00	C
ATOM	11174	NZ	LYS	1174	2.731	113.896	81.408	1.00	0.00	N
ATOM	11175	HZ1	LYS	1174	2.323	114.795	81.664	1.00	0.00	H
ATOM	11176	HZ2	LYS	1174	2.112	113.354	80.805	1.00	0.00	H
ATOM	11177	HZ3	LYS	1174	3.514	114.001	80.763	1.00	0.00	H
ATOM	11178	C	LYS	1174	5.335	108.390	80.018	1.00	0.00	C
ATOM	11179	O	LYS	1174	4.922	107.608	80.875	1.00	0.00	O
ATOM	11180	N	GLY	1175	6.193	108.016	79.055	1.00	0.00	N
ATOM	11181	HN	GLY	1175	6.548	108.691	78.378	1.00	0.00	H
ATOM	11182	CA	GLY	1175	6.594	106.648	79.006	1.00	0.00	C
ATOM	11183	C	GLY	1175	7.202	106.385	77.669	1.00	0.00	C
ATOM	11184	O	GLY	1175	8.159	107.043	77.267	1.00	0.00	O
ATOM	11185	N	ILE	1176	6.665	105.379	76.954	1.00	0.00	N
ATOM	11186	HN	ILE	1176	5.830	104.901	77.293	1.00	0.00	H
ATOM	11187	CA	ILE	1176	7.267	104.980	75.716	1.00	0.00	C
ATOM	11188	CB	ILE	1176	6.631	103.739	75.168	1.00	0.00	C
ATOM	11189	CG1	ILE	1176	6.839	102.607	76.184	1.00	0.00	C
ATOM	11190	CG2	ILE	1176	7.228	103.429	73.785	1.00	0.00	C
ATOM	11191	CD1	ILE	1176	5.948	101.398	75.941	1.00	0.00	C
ATOM	11192	C	ILE	1176	7.197	106.059	74.677	1.00	0.00	C
ATOM	11193	O	ILE	1176	8.233	106.516	74.201	1.00	0.00	O
ATOM	11194	N	TYR	1177	5.995	106.581	74.374	1.00	0.00	N
ATOM	11195	HN	TYR	1177	5.174	106.276	74.897	1.00	0.00	H
ATOM	11196	CA	TYR	1177	5.839	107.560	73.329	1.00	0.00	C
ATOM	11197	CB	TYR	1177	4.384	108.043	73.222	1.00	0.00	C
ATOM	11198	CG	TYR	1177	4.300	109.028	72.112	1.00	0.00	C
ATOM	11199	CD1	TYR	1177	4.134	108.598	70.817	1.00	0.00	C
ATOM	11200	CD2	TYR	1177	4.383	110.376	72.367	1.00	0.00	C
ATOM	11201	CE1	TYR	1177	4.053	109.503	69.786	1.00	0.00	C
ATOM	11202	CE2	TYR	1177	4.302	111.285	71.341	1.00	0.00	C
ATOM	11203	CZ	TYR	1177	4.137	110.848	70.050	1.00	0.00	C
ATOM	11204	OH	TYR	1177	4.053	111.781	68.996	1.00	0.00	O
ATOM	11205	HH	TYR	1177	4.111	112.711	69.179	1.00	0.00	H
ATOM	11206	C	TYR	1177	6.698	108.729	73.696	1.00	0.00	C
ATOM	11207	O	TYR	1177	7.288	109.386	72.840	1.00	0.00	O
ATOM	11208	N	PHE	1178	6.763	109.020	75.003	1.00	0.00	N
ATOM	11209	HN	PHE	1178	6.232	108.438	75.651	1.00	0.00	H
ATOM	11210	CA	PHE	1178	7.535	110.101	75.543	1.00	0.00	C
ATOM	11211	CB	PHE	1178	7.414	110.102	77.079	1.00	0.00	C
ATOM	11212	CG	PHE	1178	8.029	111.323	77.665	1.00	0.00	C
ATOM	11213	CD1	PHE	1178	9.394	111.488	77.684	1.00	0.00	C
ATOM	11214	CD2	PHE	1178	7.225	112.285	78.231	1.00	0.00	C
ATOM	11215	CE1	PHE	1178	9.947	112.617	78.241	1.00	0.00	C
ATOM	11216	CE2	PHE	1178	7.771	113.414	78.790	1.00	0.00	C
ATOM	11217	CZ	PHE	1178	9.136	113.581	78.790	1.00	0.00	C
ATOM	11218	C	PHE	1178	8.979	109.856	75.202	1.00	0.00	C
ATOM	11219	O	PHE	1178	9.665	110.714	74.648	1.00	0.00	O
ATOM	11220	N	SER	1179	9.473	108.640	75.484	1.00	0.00	N
ATOM	11221	HN	SER	1179	8.866	107.920	75.875	1.00	0.00	H
ATOM	11222	CA	SER	1179	10.854	108.357	75.234	1.00	0.00	C
ATOM	11223	CB	SER	1179	11.255	106.930	75.648	1.00	0.00	C
ATOM	11224	OG	SER	1179	11.156	106.780	77.057	1.00	0.00	O
ATOM	11225	HG	SER	1179	11.404	105.899	77.313	1.00	0.00	H
ATOM	11226	C	SER	1179	11.077	108.481	73.762	1.00	0.00	C
ATOM	11227	O	SER	1179	12.189	108.733	73.310	1.00	0.00	O
ATOM	11228	N	MET	1180	10.029	108.273	72.953	1.00	0.00	N
ATOM	11229	HN	MET	1180	9.120	108.023	73.342	1.00	0.00	H
ATOM	11230	CA	MET	1180	10.197	108.405	71.535	1.00	0.00	C
ATOM	11231	CB	MET	1180	8.910	108.069	70.762	1.00	0.00	C
ATOM	11232	CG	MET	1180	8.416	106.638	70.981	1.00	0.00	C
ATOM	11233	SD	MET	1180	9.495	105.344	70.306	1.00	0.00	S
ATOM	11234	CE	MET	1180	8.654	104.002	71.194	1.00	0.00	C
ATOM	11235	C	MET	1180	10.512	109.830	71.219	1.00	0.00	C
ATOM	11236	O	MET	1180	11.400	110.121	70.419	1.00	0.00	O
ATOM	11237	N	VAL	1181	9.778	110.775	71.836	1.00	0.00	N
ATOM	11238	HN	VAL	1181	9.032	110.528	72.487	1.00	0.00	H
ATOM	11239	CA	VAL	1181	10.087	112.138	71.541	1.00	0.00	C
ATOM	11240	CB	VAL	1181	9.047	113.145	71.965	1.00	0.00	C
ATOM	11241	CG1	VAL	1181	7.850	112.980	71.016	1.00	0.00	C
ATOM	11242	CG2	VAL	1181	8.642	112.932	73.428	1.00	0.00	C
ATOM	11243	C	VAL	1181	11.441	112.419	72.103	1.00	0.00	C
ATOM	11244	O	VAL	1181	12.203	113.202	71.538	1.00	0.00	O
ATOM	11245	N	SER	1182	11.783	111.777	73.238	1.00	0.00	N



ATOM	11246	HN	SER	1182	11.123	111.139	73.683	1.00	0.00	H
ATOM	11247	CA	SER	1182	13.078	111.993	73.818	1.00	0.00	C
ATOM	11248	CB	SER	1182	13.224	111.461	75.263	1.00	0.00	C
ATOM	11249	OG	SER	1182	13.073	110.052	75.330	1.00	0.00	O
ATOM	11250	HG	SER	1182	13.163	109.725	76.218	1.00	0.00	H
ATOM	11251	C	SER	1182	14.203	111.444	72.945	1.00	0.00	C
ATOM	11252	O	SER	1182	15.228	112.106	72.801	1.00	0.00	O
ATOM	11253	N	VAL	1183	14.060	110.244	72.323	1.00	0.00	N
ATOM	11254	HN	VAL	1183	13.189	109.730	72.453	1.00	0.00	H
ATOM	11255	CA	VAL	1183	15.090	109.658	71.481	1.00	0.00	C
ATOM	11256	CB	VAL	1183	14.734	108.314	70.916	1.00	0.00	C
ATOM	11257	CG1	VAL	1183	13.533	108.461	69.969	1.00	0.00	C
ATOM	11258	CG2	VAL	1183	15.987	107.745	70.231	1.00	0.00	C
ATOM	11259	C	VAL	1183	15.238	110.619	70.345	1.00	0.00	C
ATOM	11260	O	VAL	1183	16.333	110.848	69.833	1.00	0.00	O
ATOM	11261	N	GLN	1184	14.102	111.227	69.956	1.00	0.00	N
ATOM	11262	HN	GLN	1184	13.251	111.017	70.478	1.00	0.00	H
ATOM	11263	CA	GLN	1184	14.000	112.147	68.864	1.00	0.00	C
ATOM	11264	CB	GLN	1184	12.550	112.609	68.681	1.00	0.00	C
ATOM	11265	CG	GLN	1184	12.347	113.592	67.536	1.00	0.00	C
ATOM	11266	CD	GLN	1184	10.866	113.922	67.527	1.00	0.00	C
ATOM	11267	OE1	GLN	1184	10.210	113.897	68.567	1.00	0.00	O
ATOM	11268	NE2	GLN	1184	10.321	114.227	66.320	1.00	0.00	N
ATOM	11269	1HE2	GLN	1184	10.865	114.248	65.457	1.00	0.00	H
ATOM	11270	2HE2	GLN	1184	9.325	114.449	66.314	1.00	0.00	H
ATOM	11271	C	GLN	1184	14.837	113.344	69.135	1.00	0.00	C
ATOM	11272	O	GLN	1184	15.527	113.832	68.242	1.00	0.00	O
ATOM	11273	N	ALA	1185	14.796	113.852	70.380	1.00	0.00	N
ATOM	11274	HN	ALA	1185	14.201	113.420	71.087	1.00	0.00	H
ATOM	11275	CA	ALA	1185	15.586	114.997	70.712	1.00	0.00	C
ATOM	11276	CB	ALA	1185	15.213	115.607	72.072	1.00	0.00	C
ATOM	11277	C	ALA	1185	17.026	114.508	70.797	1.00	0.00	C
ATOM	11278	O	ALA	1185	17.535	113.976	69.776	1.00	0.00	O
ATOM	11279	OXT	ALA	1185	17.639	114.660	71.888	1.00	0.00	O
HETATM	11280	O	LIG	1	15.481	57.909	19.932	1.00	0.00	O
HETATM	11281	N	LIG	1	13.925	59.538	19.251	1.00	0.00	N
HETATM	11282	N	LIG	1	16.046	60.091	20.148	1.00	0.00	N
HETATM	11283	C	LIG	1	12.915	58.589	18.865	1.00	0.00	C
HETATM	11284	C	LIG	1	13.491	60.907	19.289	1.00	0.00	C
HETATM	11285	C	LIG	1	12.220	58.678	17.643	1.00	0.00	C
HETATM	11286	C	LIG	1	12.938	61.564	18.175	1.00	0.00	C
HETATM	11287	C	LIG	1	12.517	59.678	16.612	1.00	0.00	C
HETATM	11288	C	LIG	1	12.836	60.954	16.847	1.00	0.00	C
HETATM	11289	C	LIG	1	12.608	57.526	19.738	1.00	0.00	C
HETATM	11290	C	LIG	1	13.599	61.614	20.505	1.00	0.00	C
HETATM	11291	C	LIG	1	11.260	57.701	17.320	1.00	0.00	C
HETATM	11292	C	LIG	1	12.545	62.910	18.290	1.00	0.00	C
HETATM	11293	C	LIG	1	15.147	59.091	19.814	1.00	0.00	C
HETATM	11294	C	LIG	1	11.642	56.573	19.410	1.00	0.00	C
HETATM	11295	C	LIG	1	13.190	62.943	20.608	1.00	0.00	C
HETATM	11296	C	LIG	1	10.969	56.661	18.199	1.00	0.00	C
HETATM	11297	C	LIG	1	12.665	63.593	19.499	1.00	0.00	C
HETATM	11298	H	LIG	1	16.946	59.851	20.550	1.00	0.00	H
HETATM	11299	H	LIG	1	15.925	61.066	19.900	1.00	0.00	H
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