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REMARK 4 XXXX COMPLIES WITH FORMAT V. 2.0
COMPND W:\zeph\SINDHU\DLG FILES\mutant2drug1\complex.pdbqt
AUTHOR GENERATED BY OPEN BABEL 2.3.1
ATOM 1 N VAL 1 48.630 81.373 6.865 1.00 0.00 N
ATOM 2 HN1 VAL 1 48.831 81.592 5.889 1.00 0.00 H
ATOM 3 HN2 VAL 1 47.629 81.392 7.060 1.00 0.00 H
ATOM 4 HN3 VAL 1 48.807 80.392 7.079 1.00 0.00 H
ATOM 5 CA VAL 1 49.384 82.279 7.763 1.00 0.00 C
ATOM 6 CB VAL 1 48.998 83.706 7.510 1.00 0.00 C
ATOM 7 CG1 VAL 1 49.396 84.072 6.070 1.00 0.00 C
ATOM 8 CG2 VAL 1 47.497 83.873 7.804 1.00 0.00 C
ATOM 9 C VAL 1 49.090 81.960 9.187 1.00 0.00 C
ATOM 10 O VAL 1 48.920 80.804 9.548 1.00 0.00 O
ATOM 11 N SER 2 49.002 82.976 10.054 1.00 0.00 N
ATOM 12 HN SER 2 49.099 83.941 9.737 1.00 0.00 H
ATOM 13 CA SER 2 48.769 82.681 11.435 1.00 0.00 C
ATOM 14 CB SER 2 48.666 83.943 12.304 1.00 0.00 C
ATOM 15 OG SER 2 48.431 83.581 13.656 1.00 0.00 O
ATOM 16 HG SER 2 48.367 84.362 14.194 1.00 0.00 H
ATOM 17 C SER 2 47.465 81.962 11.552 1.00 0.00 C
ATOM 18 O SER 2 47.328 81.038 12.351 1.00 0.00 O
ATOM 19 N VAL 3 46.457 82.356 10.752 1.00 0.00 N
ATOM 20 HN VAL 3 46.586 83.082 10.047 1.00 0.00 H
ATOM 21 CA VAL 3 45.198 81.707 10.939 1.00 0.00 C
ATOM 22 CB VAL 3 44.118 82.292 10.066 1.00 0.00 C
ATOM 23 CG1 VAL 3 43.842 83.720 10.562 1.00 0.00 C
ATOM 24 CG2 VAL 3 44.560 82.264 8.592 1.00 0.00 C
ATOM 25 C VAL 3 45.301 80.227 10.699 1.00 0.00 C
ATOM 26 O VAL 3 45.243 79.476 11.665 1.00 0.00 O
ATOM 27 N PHE 4 45.489 79.753 9.446 1.00 0.00 N
ATOM 28 HN PHE 4 45.584 80.399 8.663 1.00 0.00 H
ATOM 29 CA PHE 4 45.554 78.329 9.223 1.00 0.00 C
ATOM 30 CB PHE 4 45.158 77.875 7.800 1.00 0.00 C
ATOM 31 CG PHE 4 46.061 78.448 6.765 1.00 0.00 C
ATOM 32 CD1 PHE 4 47.274 77.862 6.486 1.00 0.00 C
ATOM 33 CD2 PHE 4 45.678 79.562 6.055 1.00 0.00 C
ATOM 34 CE1 PHE 4 48.101 78.389 5.522 1.00 0.00 C
ATOM 35 CE2 PHE 4 46.500 80.093 5.090 1.00 0.00 C
ATOM 36 CZ PHE 4 47.714 79.507 4.823 1.00 0.00 C
ATOM 37 C PHE 4 46.885 77.744 9.597 1.00 0.00 C
ATOM 38 O PHE 4 46.954 76.690 10.228 1.00 0.00 O
ATOM 39 N SER 5 47.985 78.411 9.199 1.00 0.00 N
ATOM 40 HN SER 5 47.872 79.298 8.709 1.00 0.00 H
ATOM 41 CA SER 5 49.313 77.916 9.441 1.00 0.00 C
ATOM 42 CB SER 5 50.415 78.682 8.684 1.00 0.00 C
ATOM 43 OG SER 5 50.264 78.498 7.285 1.00 0.00 O
ATOM 44 HG SER 5 50.943 78.970 6.818 1.00 0.00 H
ATOM 45 C SER 5 49.672 77.930 10.894 1.00 0.00 C
ATOM 46 O SER 5 50.096 76.905 11.413 1.00 0.00 O
ATOM 47 N MET 6 49.507 79.061 11.611 1.00 0.00 N
ATOM 48 HN MET 6 49.139 79.903 11.168 1.00 0.00 H
ATOM 49 CA MET 6 49.856 79.068 13.011 1.00 0.00 C
ATOM 50 CB MET 6 49.609 80.419 13.709 1.00 0.00 C
ATOM 51 CG MET 6 49.836 80.430 15.225 1.00 0.00 C
ATOM 52 SD MET 6 51.569 80.378 15.771 1.00 0.00 S
ATOM 53 CE MET 6 51.786 78.611 15.429 1.00 0.00 C
ATOM 54 C MET 6 48.958 78.052 13.611 1.00 0.00 C
ATOM 55 O MET 6 49.343 77.310 14.513 1.00 0.00 O
ATOM 56 N PHE 7 47.739 77.967 13.051 1.00 0.00 N
ATOM 57 HN PHE 7 47.497 78.587 12.278 1.00 0.00 H
ATOM 58 CA PHE 7 46.778 77.022 13.521 1.00 0.00 C
ATOM 59 CB PHE 7 45.479 76.981 12.703 1.00 0.00 C
ATOM 60 CG PHE 7 44.479 76.112 13.386 1.00 0.00 C
ATOM 61 CD1 PHE 7 43.640 76.642 14.338 1.00 0.00 C
ATOM 62 CD2 PHE 7 44.377 74.775 13.074 1.00 0.00 C
ATOM 63 CE1 PHE 7 42.712 75.849 14.972 1.00 0.00 C
ATOM 64 CE2 PHE 7 43.450 73.978 13.704 1.00 0.00 C
ATOM 65 CZ PHE 7 42.616 74.515 14.655 1.00 0.00 C
ATOM 66 C PHE 7 47.385 75.673 13.376 1.00 0.00 C
ATOM 67 O PHE 7 47.252 74.844 14.273 1.00 0.00 O
ATOM 68 N ARG 8 48.038 75.385 12.230 1.00 0.00 N
ATOM 69 HN ARG 8 48.097 76.051 11.460 1.00 0.00 H
ATOM 70 CA ARG 8 48.642 74.090 12.161 1.00 0.00 C
ATOM 71 CB ARG 8 48.159 73.220 10.989 1.00 0.00 C

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ATOM	72	CG	ARG	8	46.788	72.597	11.257	1.00	0.00	C
ATOM	73	CD	ARG	8	46.405	71.474	10.293	1.00	0.00	C
ATOM	74	NE	ARG	8	45.164	70.853	10.836	1.00	0.00	N
ATOM	75	HE	ARG	8	44.830	71.121	11.762	1.00	0.00	H
ATOM	76	CZ	ARG	8	44.468	69.930	10.110	1.00	0.00	C
ATOM	77	NH1	ARG	8	44.887	69.599	8.855	1.00	0.00	N
ATOM	78	1HH1	ARG	8	45.716	70.041	8.459	1.00	0.00	H
ATOM	79	2HH1	ARG	8	44.367	68.909	8.313	1.00	0.00	H
ATOM	80	NH2	ARG	8	43.358	69.338	10.640	1.00	0.00	N
ATOM	81	1HH2	ARG	8	43.045	69.586	11.579	1.00	0.00	H
ATOM	82	2HH2	ARG	8	42.838	68.648	10.098	1.00	0.00	H
ATOM	83	C	ARG	8	50.120	74.261	12.059	1.00	0.00	C
ATOM	84	O	ARG	8	50.690	74.240	10.969	1.00	0.00	O
ATOM	85	N	TYR	9	50.784	74.387	13.223	1.00	0.00	N
ATOM	86	HN	TYR	9	50.261	74.334	14.097	1.00	0.00	H
ATOM	87	CA	TYR	9	52.201	74.593	13.274	1.00	0.00	C
ATOM	88	CB	TYR	9	52.621	75.867	14.028	1.00	0.00	C
ATOM	89	CG	TYR	9	52.438	75.630	15.489	1.00	0.00	C
ATOM	90	CD1	TYR	9	51.185	75.496	16.038	1.00	0.00	C
ATOM	91	CD2	TYR	9	53.534	75.567	16.318	1.00	0.00	C
ATOM	92	CE1	TYR	9	51.028	75.283	17.388	1.00	0.00	C
ATOM	93	CE2	TYR	9	53.385	75.355	17.667	1.00	0.00	C
ATOM	94	CZ	TYR	9	52.131	75.210	18.207	1.00	0.00	C
ATOM	95	OH	TYR	9	51.983	74.993	19.594	1.00	0.00	O
ATOM	96	HH	TYR	9	52.745	74.943	20.160	1.00	0.00	H
ATOM	97	C	TYR	9	52.730	73.427	14.058	1.00	0.00	C
ATOM	98	O	TYR	9	52.009	72.458	14.287	1.00	0.00	O
ATOM	99	N	SER	10	54.022	73.483	14.439	1.00	0.00	N
ATOM	100	HN	SER	10	54.577	74.273	14.112	1.00	0.00	H
ATOM	101	CA	SER	10	54.677	72.507	15.276	1.00	0.00	C
ATOM	102	CB	SER	10	54.258	72.618	16.753	1.00	0.00	C
ATOM	103	OG	SER	10	52.872	72.342	16.891	1.00	0.00	O
ATOM	104	HG	SER	10	52.613	72.411	17.803	1.00	0.00	H
ATOM	105	C	SER	10	54.494	71.068	14.853	1.00	0.00	C
ATOM	106	O	SER	10	53.750	70.346	15.513	1.00	0.00	O
ATOM	107	N	ASN	11	55.131	70.591	13.747	1.00	0.00	N
ATOM	108	HN	ASN	11	55.703	71.195	13.156	1.00	0.00	H
ATOM	109	CA	ASN	11	54.955	69.181	13.451	1.00	0.00	C
ATOM	110	CB	ASN	11	53.659	68.888	12.660	1.00	0.00	C
ATOM	111	CG	ASN	11	52.395	69.139	13.474	1.00	0.00	C
ATOM	112	OD1	ASN	11	52.205	68.579	14.553	1.00	0.00	O
ATOM	113	ND2	ASN	11	51.497	70.007	12.937	1.00	0.00	N
ATOM	114	1HD2	ASN	11	51.655	70.471	12.043	1.00	0.00	H
ATOM	115	2HD2	ASN	11	50.651	70.175	13.482	1.00	0.00	H
ATOM	116	C	ASN	11	56.013	68.638	12.520	1.00	0.00	C
ATOM	117	O	ASN	11	55.817	68.677	11.306	1.00	0.00	O
ATOM	118	N	TRP	12	57.159	68.114	13.012	1.00	0.00	N
ATOM	119	HN	TRP	12	57.376	68.154	14.008	1.00	0.00	H
ATOM	120	CA	TRP	12	58.062	67.497	12.072	1.00	0.00	C
ATOM	121	CB	TRP	12	59.427	67.210	12.724	1.00	0.00	C
ATOM	122	CG	TRP	12	60.447	66.532	11.840	1.00	0.00	C
ATOM	123	CD2	TRP	12	61.858	66.779	11.935	1.00	0.00	C
ATOM	124	CD1	TRP	12	60.280	65.626	10.834	1.00	0.00	C
ATOM	125	NE1	TRP	12	61.500	65.288	10.299	1.00	0.00	N
ATOM	126	HE1	TRP	12	61.654	64.628	9.537	1.00	0.00	H
ATOM	127	CE2	TRP	12	62.480	65.992	10.966	1.00	0.00	C
ATOM	128	CE3	TRP	12	62.575	67.597	12.758	1.00	0.00	C
ATOM	129	CZ2	TRP	12	63.836	66.012	10.807	1.00	0.00	C
ATOM	130	CZ3	TRP	12	63.942	67.614	12.598	1.00	0.00	C
ATOM	131	CH2	TRP	12	64.561	66.836	11.641	1.00	0.00	C
ATOM	132	C	TRP	12	57.489	66.195	11.583	1.00	0.00	C
ATOM	133	O	TRP	12	56.877	66.100	10.520	1.00	0.00	O
ATOM	134	N	LEU	13	57.583	65.171	12.450	1.00	0.00	N
ATOM	135	HN	LEU	13	57.991	65.356	13.366	1.00	0.00	H
ATOM	136	CA	LEU	13	57.146	63.837	12.167	1.00	0.00	C
ATOM	137	CB	LEU	13	57.459	62.857	13.308	1.00	0.00	C
ATOM	138	CG	LEU	13	58.964	62.690	13.578	1.00	0.00	C
ATOM	139	CD1	LEU	13	59.606	64.006	14.045	1.00	0.00	C
ATOM	140	CD2	LEU	13	59.220	61.537	14.556	1.00	0.00	C
ATOM	141	C	LEU	13	55.671	63.921	12.051	1.00	0.00	C
ATOM	142	O	LEU	13	55.030	63.087	11.414	1.00	0.00	O
ATOM	143	N	ASP	14	55.092	64.907	12.752	1.00	0.00	N
ATOM	144	HN	ASP	14	55.667	65.554	13.292	1.00	0.00	H
ATOM	145	CA	ASP	14	53.670	65.053	12.744	1.00	0.00	C

ATOM	146	CB	ASP	14	53.151	66.167	13.661	1.00	0.00	C
ATOM	147	CG	ASP	14	53.249	65.750	15.120	1.00	0.00	C
ATOM	148	OD1	ASP	14	54.034	64.817	15.438	1.00	0.00	O
ATOM	149	OD2	ASP	14	52.528	66.375	15.943	1.00	0.00	O
ATOM	150	C	ASP	14	53.183	65.390	11.370	1.00	0.00	C
ATOM	151	O	ASP	14	52.325	64.706	10.815	1.00	0.00	O
ATOM	152	N	LYS	15	53.777	66.424	10.750	1.00	0.00	N
ATOM	153	HN	LYS	15	54.566	66.894	11.195	1.00	0.00	H
ATOM	154	CA	LYS	15	53.313	66.874	9.469	1.00	0.00	C
ATOM	155	CB	LYS	15	54.184	68.009	8.906	1.00	0.00	C
ATOM	156	CG	LYS	15	53.739	68.534	7.540	1.00	0.00	C
ATOM	157	CD	LYS	15	54.447	69.829	7.135	1.00	0.00	C
ATOM	158	CE	LYS	15	54.168	70.269	5.697	1.00	0.00	C
ATOM	159	NZ	LYS	15	54.911	69.409	4.749	1.00	0.00	N
ATOM	160	HZ1	LYS	15	54.725	69.702	3.790	1.00	0.00	H
ATOM	161	HZ2	LYS	15	54.708	68.420	4.892	1.00	0.00	H
ATOM	162	HZ3	LYS	15	55.910	69.388	4.955	1.00	0.00	H
ATOM	163	C	LYS	15	53.389	65.733	8.503	1.00	0.00	C
ATOM	164	O	LYS	15	52.498	65.552	7.673	1.00	0.00	O
ATOM	165	N	LEU	16	54.464	64.933	8.573	1.00	0.00	N
ATOM	166	HN	LEU	16	55.189	65.107	9.269	1.00	0.00	H
ATOM	167	CA	LEU	16	54.587	63.831	7.661	1.00	0.00	C
ATOM	168	CB	LEU	16	55.918	63.068	7.786	1.00	0.00	C
ATOM	169	CG	LEU	16	57.143	63.822	7.236	1.00	0.00	C
ATOM	170	CD1	LEU	16	57.437	65.104	8.027	1.00	0.00	C
ATOM	171	CD2	LEU	16	58.356	62.887	7.138	1.00	0.00	C
ATOM	172	C	LEU	16	53.495	62.838	7.887	1.00	0.00	C
ATOM	173	O	LEU	16	52.861	62.381	6.938	1.00	0.00	O
ATOM	174	N	TYR	17	53.214	62.485	9.153	1.00	0.00	N
ATOM	175	HN	TYR	17	53.694	62.916	9.943	1.00	0.00	H
ATOM	176	CA	TYR	17	52.213	61.479	9.346	1.00	0.00	C
ATOM	177	CB	TYR	17	51.984	61.036	10.800	1.00	0.00	C
ATOM	178	CG	TYR	17	51.057	59.876	10.665	1.00	0.00	C
ATOM	179	CD1	TYR	17	51.558	58.653	10.283	1.00	0.00	C
ATOM	180	CD2	TYR	17	49.706	59.999	10.900	1.00	0.00	C
ATOM	181	CE1	TYR	17	50.730	57.566	10.139	1.00	0.00	C
ATOM	182	CE2	TYR	17	48.872	58.914	10.758	1.00	0.00	C
ATOM	183	CZ	TYR	17	49.384	57.696	10.376	1.00	0.00	C
ATOM	184	OH	TYR	17	48.535	56.580	10.226	1.00	0.00	O
ATOM	185	HH	TYR	17	48.889	55.739	9.962	1.00	0.00	H
ATOM	186	C	TYR	17	50.920	62.028	8.842	1.00	0.00	C
ATOM	187	O	TYR	17	50.088	61.302	8.302	1.00	0.00	O
ATOM	188	N	MET	18	50.718	63.344	9.026	1.00	0.00	N
ATOM	189	HN	MET	18	51.452	63.916	9.443	1.00	0.00	H
ATOM	190	CA	MET	18	49.479	63.947	8.641	1.00	0.00	C
ATOM	191	CB	MET	18	49.477	65.460	8.930	1.00	0.00	C
ATOM	192	CG	MET	18	48.196	66.178	8.503	1.00	0.00	C
ATOM	193	SD	MET	18	48.034	67.875	9.133	1.00	0.00	S
ATOM	194	CE	MET	18	47.420	67.358	10.762	1.00	0.00	C
ATOM	195	C	MET	18	49.215	63.760	7.176	1.00	0.00	C
ATOM	196	O	MET	18	48.170	63.233	6.795	1.00	0.00	O
ATOM	197	N	VAL	19	50.183	64.104	6.309	1.00	0.00	N
ATOM	198	HN	VAL	19	51.091	64.414	6.656	1.00	0.00	H
ATOM	199	CA	VAL	19	49.941	64.036	4.897	1.00	0.00	C
ATOM	200	CB	VAL	19	51.137	64.454	4.094	1.00	0.00	C
ATOM	201	CG1	VAL	19	51.434	65.932	4.398	1.00	0.00	C
ATOM	202	CG2	VAL	19	52.305	63.509	4.425	1.00	0.00	C
ATOM	203	C	VAL	19	49.622	62.624	4.542	1.00	0.00	C
ATOM	204	O	VAL	19	48.778	62.365	3.684	1.00	0.00	O
ATOM	205	N	VAL	20	50.302	61.669	5.198	1.00	0.00	N
ATOM	206	HN	VAL	20	50.969	61.931	5.924	1.00	0.00	H
ATOM	207	CA	VAL	20	50.099	60.285	4.887	1.00	0.00	C
ATOM	208	CB	VAL	20	50.932	59.378	5.739	1.00	0.00	C
ATOM	209	CG1	VAL	20	50.507	57.927	5.460	1.00	0.00	C
ATOM	210	CG2	VAL	20	52.417	59.657	5.448	1.00	0.00	C
ATOM	211	C	VAL	20	48.668	59.909	5.124	1.00	0.00	C
ATOM	212	O	VAL	20	48.004	59.377	4.236	1.00	0.00	O
ATOM	213	N	GLY	21	48.139	60.232	6.316	1.00	0.00	N
ATOM	214	HN	GLY	21	48.697	60.771	6.978	1.00	0.00	H
ATOM	215	CA	GLY	21	46.808	59.837	6.681	1.00	0.00	C
ATOM	216	C	GLY	21	45.834	60.431	5.721	1.00	0.00	C
ATOM	217	O	GLY	21	44.822	59.812	5.393	1.00	0.00	O
ATOM	218	N	THR	22	46.107	61.660	5.250	1.00	0.00	N
ATOM	219	HN	THR	22	46.965	62.138	5.527	1.00	0.00	H

ATOM	220	CA	THR	22	45.186	62.292	4.358	1.00	0.00	C
ATOM	221	CB	THR	22	45.675	63.619	3.855	1.00	0.00	C
ATOM	222	OG1	THR	22	45.945	64.487	4.945	1.00	0.00	O
ATOM	223	HG1	THR	22	46.254	65.327	4.627	1.00	0.00	H
ATOM	224	CG2	THR	22	44.585	64.229	2.956	1.00	0.00	C
ATOM	225	C	THR	22	45.039	61.392	3.174	1.00	0.00	C
ATOM	226	O	THR	22	43.926	61.083	2.755	1.00	0.00	O
ATOM	227	N	LEU	23	46.168	60.865	2.669	1.00	0.00	N
ATOM	228	HN	LEU	23	47.055	61.034	3.143	1.00	0.00	H
ATOM	229	CA	LEU	23	46.147	60.069	1.476	1.00	0.00	C
ATOM	230	CB	LEU	23	47.548	59.519	1.121	1.00	0.00	C
ATOM	231	CG	LEU	23	47.709	58.815	-0.251	1.00	0.00	C
ATOM	232	CD1	LEU	23	49.158	58.338	-0.433	1.00	0.00	C
ATOM	233	CD2	LEU	23	46.715	57.666	-0.495	1.00	0.00	C
ATOM	234	C	LEU	23	45.233	58.908	1.702	1.00	0.00	C
ATOM	235	O	LEU	23	44.412	58.591	0.841	1.00	0.00	O
ATOM	236	N	ALA	24	45.318	58.265	2.881	1.00	0.00	N
ATOM	237	HN	ALA	24	45.953	58.608	3.601	1.00	0.00	H
ATOM	238	CA	ALA	24	44.519	57.099	3.130	1.00	0.00	C
ATOM	239	CB	ALA	24	44.686	56.561	4.562	1.00	0.00	C
ATOM	240	C	ALA	24	43.092	57.498	2.970	1.00	0.00	C
ATOM	241	O	ALA	24	42.289	56.764	2.396	1.00	0.00	O
ATOM	242	N	ALA	25	42.750	58.708	3.441	1.00	0.00	N
ATOM	243	HN	ALA	25	43.457	59.313	3.859	1.00	0.00	H
ATOM	244	CA	ALA	25	41.391	59.147	3.355	1.00	0.00	C
ATOM	245	CB	ALA	25	41.187	60.560	3.926	1.00	0.00	C
ATOM	246	C	ALA	25	40.992	59.179	1.915	1.00	0.00	C
ATOM	247	O	ALA	25	39.909	58.726	1.544	1.00	0.00	O
ATOM	248	N	ILE	26	41.887	59.674	1.049	1.00	0.00	N
ATOM	249	HN	ILE	26	42.820	59.935	1.368	1.00	0.00	H
ATOM	250	CA	ILE	26	41.526	59.834	-0.326	1.00	0.00	C
ATOM	251	CB	ILE	26	42.664	60.423	-1.093	1.00	0.00	C
ATOM	252	CG1	ILE	26	42.989	61.798	-0.490	1.00	0.00	C
ATOM	253	CG2	ILE	26	42.291	60.461	-2.583	1.00	0.00	C
ATOM	254	CD1	ILE	26	44.376	62.310	-0.849	1.00	0.00	C
ATOM	255	C	ILE	26	41.169	58.504	-0.925	1.00	0.00	C
ATOM	256	O	ILE	26	40.075	58.334	-1.459	1.00	0.00	O
ATOM	257	N	ILE	27	42.037	57.492	-0.763	1.00	0.00	N
ATOM	258	HN	ILE	27	42.862	57.632	-0.180	1.00	0.00	H
ATOM	259	CA	ILE	27	41.830	56.215	-1.393	1.00	0.00	C
ATOM	260	CB	ILE	27	42.912	55.228	-1.063	1.00	0.00	C
ATOM	261	CG1	ILE	27	42.915	54.894	0.438	1.00	0.00	C
ATOM	262	CG2	ILE	27	44.240	55.820	-1.559	1.00	0.00	C
ATOM	263	CD1	ILE	27	43.788	53.690	0.790	1.00	0.00	C
ATOM	264	C	ILE	27	40.535	55.636	-0.916	1.00	0.00	C
ATOM	265	O	ILE	27	39.802	55.014	-1.684	1.00	0.00	O
ATOM	266	N	HIS	28	40.229	55.818	0.379	1.00	0.00	N
ATOM	267	HN	HIS	28	40.863	56.366	0.960	1.00	0.00	H
ATOM	268	CA	HIS	28	39.045	55.272	0.977	1.00	0.00	C
ATOM	269	ND1	HIS	28	37.364	53.698	3.031	1.00	0.00	N
ATOM	270	HD1	HIS	28	37.740	53.002	2.387	1.00	0.00	H
ATOM	271	CG	HIS	28	37.821	54.985	3.209	1.00	0.00	C
ATOM	272	CB	HIS	28	38.989	55.584	2.483	1.00	0.00	C
ATOM	273	NE2	HIS	28	36.072	54.622	4.588	1.00	0.00	N
ATOM	274	HE2	HIS	28	35.345	54.759	5.290	1.00	0.00	H
ATOM	275	CD2	HIS	28	37.022	55.533	4.165	1.00	0.00	C
ATOM	276	CE1	HIS	28	36.317	53.535	3.879	1.00	0.00	C
ATOM	277	C	HIS	28	37.804	55.804	0.302	1.00	0.00	C
ATOM	278	O	HIS	28	36.900	55.032	-0.023	1.00	0.00	O
ATOM	279	N	GLY	29	37.727	57.128	0.045	1.00	0.00	N
ATOM	280	HN	GLY	29	38.511	57.737	0.281	1.00	0.00	H
ATOM	281	CA	GLY	29	36.542	57.685	-0.561	1.00	0.00	C
ATOM	282	C	GLY	29	36.375	57.054	-1.892	1.00	0.00	C
ATOM	283	O	GLY	29	35.274	56.678	-2.285	1.00	0.00	O
ATOM	284	N	ALA	30	37.494	56.878	-2.603	1.00	0.00	N
ATOM	285	HN	ALA	30	38.390	57.161	-2.207	1.00	0.00	H
ATOM	286	CA	ALA	30	37.453	56.300	-3.908	1.00	0.00	C
ATOM	287	CB	ALA	30	38.847	56.112	-4.529	1.00	0.00	C
ATOM	288	C	ALA	30	36.834	54.944	-3.766	1.00	0.00	C
ATOM	289	O	ALA	30	36.150	54.466	-4.669	1.00	0.00	O
ATOM	290	N	GLY	31	37.061	54.279	-2.620	1.00	0.00	N
ATOM	291	HN	GLY	31	37.590	54.723	-1.869	1.00	0.00	H
ATOM	292	CA	GLY	31	36.560	52.946	-2.453	1.00	0.00	C
ATOM	293	C	GLY	31	35.062	52.915	-2.609	1.00	0.00	C

ATOM	294	O	GLY	31	34.532	52.051	-3.304	1.00	0.00	O
ATOM	295	N	LEU	32	34.328	53.868	-2.003	1.00	0.00	N
ATOM	296	HN	LEU	32	34.790	54.636	-1.516	1.00	0.00	H
ATOM	297	CA	LEU	32	32.888	53.802	-2.043	1.00	0.00	C
ATOM	298	CB	LEU	32	32.200	54.914	-1.229	1.00	0.00	C
ATOM	299	CG	LEU	32	32.286	54.700	0.291	1.00	0.00	C
ATOM	300	CD1	LEU	32	31.446	53.483	0.703	1.00	0.00	C
ATOM	301	CD2	LEU	32	33.741	54.603	0.775	1.00	0.00	C
ATOM	302	C	LEU	32	32.353	53.841	-3.447	1.00	0.00	C
ATOM	303	O	LEU	32	31.476	53.043	-3.775	1.00	0.00	O
ATOM	304	N	PRO	33	32.781	54.730	-4.295	1.00	0.00	N
ATOM	305	CA	PRO	33	32.288	54.702	-5.644	1.00	0.00	C
ATOM	306	CD	PRO	33	33.053	56.087	-3.883	1.00	0.00	C
ATOM	307	CB	PRO	33	32.654	56.053	-6.256	1.00	0.00	C
ATOM	308	CG	PRO	33	33.500	56.760	-5.180	1.00	0.00	C
ATOM	309	C	PRO	33	32.771	53.552	-6.457	1.00	0.00	C
ATOM	310	O	PRO	33	32.045	53.099	-7.341	1.00	0.00	O
ATOM	311	N	LEU	34	33.994	53.068	-6.193	1.00	0.00	N
ATOM	312	HN	LEU	34	34.563	53.470	-5.448	1.00	0.00	H
ATOM	313	CA	LEU	34	34.485	51.977	-6.977	1.00	0.00	C
ATOM	314	CB	LEU	34	35.898	51.531	-6.569	1.00	0.00	C
ATOM	315	CG	LEU	34	36.970	52.610	-6.811	1.00	0.00	C
ATOM	316	CD1	LEU	34	38.372	52.094	-6.451	1.00	0.00	C
ATOM	317	CD2	LEU	34	36.886	53.175	-8.239	1.00	0.00	C
ATOM	318	C	LEU	34	33.550	50.860	-6.699	1.00	0.00	C
ATOM	319	O	LEU	34	33.134	50.128	-7.597	1.00	0.00	O
ATOM	320	N	MET	35	33.136	50.771	-5.425	1.00	0.00	N
ATOM	321	HN	MET	35	33.457	51.465	-4.749	1.00	0.00	H
ATOM	322	CA	MET	35	32.261	49.735	-4.991	1.00	0.00	C
ATOM	323	CB	MET	35	31.860	49.872	-3.513	1.00	0.00	C
ATOM	324	CG	MET	35	31.004	48.708	-3.009	1.00	0.00	C
ATOM	325	SD	MET	35	31.900	47.138	-2.819	1.00	0.00	S
ATOM	326	CE	MET	35	32.795	47.635	-1.319	1.00	0.00	C
ATOM	327	C	MET	35	31.019	49.846	-5.818	1.00	0.00	C
ATOM	328	O	MET	35	30.411	48.836	-6.167	1.00	0.00	O
ATOM	329	N	MET	36	30.589	51.079	-6.148	1.00	0.00	N
ATOM	330	HN	MET	36	31.098	51.909	-5.844	1.00	0.00	H
ATOM	331	CA	MET	36	29.397	51.196	-6.938	1.00	0.00	C
ATOM	332	CB	MET	36	29.008	52.654	-7.230	1.00	0.00	C
ATOM	333	CG	MET	36	28.481	53.406	-6.008	1.00	0.00	C
ATOM	334	SD	MET	36	26.874	52.810	-5.398	1.00	0.00	S
ATOM	335	CE	MET	36	27.504	51.266	-4.680	1.00	0.00	C
ATOM	336	C	MET	36	29.594	50.521	-8.260	1.00	0.00	C
ATOM	337	O	MET	36	28.821	49.642	-8.637	1.00	0.00	O
ATOM	338	N	LEU	37	30.701	50.837	-8.954	1.00	0.00	N
ATOM	339	HN	LEU	37	31.416	51.425	-8.524	1.00	0.00	H
ATOM	340	CA	LEU	37	30.888	50.356	-10.294	1.00	0.00	C
ATOM	341	CB	LEU	37	32.232	50.821	-10.887	1.00	0.00	C
ATOM	342	CG	LEU	37	32.386	50.600	-12.407	1.00	0.00	C
ATOM	343	CD1	LEU	37	32.397	49.116	-12.797	1.00	0.00	C
ATOM	344	CD2	LEU	37	31.337	51.410	-13.184	1.00	0.00	C
ATOM	345	C	LEU	37	30.866	48.856	-10.296	1.00	0.00	C
ATOM	346	O	LEU	37	30.198	48.246	-11.131	1.00	0.00	O
ATOM	347	N	VAL	38	31.560	48.217	-9.335	1.00	0.00	N
ATOM	348	HN	VAL	38	32.036	48.756	-8.611	1.00	0.00	H
ATOM	349	CA	VAL	38	31.635	46.783	-9.321	1.00	0.00	C
ATOM	350	CB	VAL	38	32.454	46.239	-8.184	1.00	0.00	C
ATOM	351	CG1	VAL	38	33.881	46.805	-8.294	1.00	0.00	C
ATOM	352	CG2	VAL	38	31.746	46.544	-6.856	1.00	0.00	C
ATOM	353	C	VAL	38	30.248	46.256	-9.187	1.00	0.00	C
ATOM	354	O	VAL	38	29.890	45.256	-9.806	1.00	0.00	O
ATOM	355	N	PHE	39	29.413	46.955	-8.401	1.00	0.00	N
ATOM	356	HN	PHE	39	29.752	47.798	-7.938	1.00	0.00	H
ATOM	357	CA	PHE	39	28.057	46.543	-8.199	1.00	0.00	C
ATOM	358	CB	PHE	39	27.276	47.571	-7.356	1.00	0.00	C
ATOM	359	CG	PHE	39	25.817	47.268	-7.407	1.00	0.00	C
ATOM	360	CD1	PHE	39	25.271	46.283	-6.619	1.00	0.00	C
ATOM	361	CD2	PHE	39	24.993	47.972	-8.258	1.00	0.00	C
ATOM	362	CE1	PHE	39	23.924	46.009	-6.674	1.00	0.00	C
ATOM	363	CE2	PHE	39	23.646	47.705	-8.317	1.00	0.00	C
ATOM	364	CZ	PHE	39	23.109	46.720	-7.522	1.00	0.00	C
ATOM	365	C	PHE	39	27.441	46.451	-9.558	1.00	0.00	C
ATOM	366	O	PHE	39	26.653	45.548	-9.829	1.00	0.00	O
ATOM	367	N	GLY	40	27.778	47.395	-10.452	1.00	0.00	N

ATOM	368	HN	GLY	40	28.441	48.127	-10.197	1.00	0.00	H
ATOM	369	CA	GLY	40	27.203	47.371	-11.765	1.00	0.00	C
ATOM	370	C	GLY	40	27.620	46.182	-12.577	1.00	0.00	C
ATOM	371	O	GLY	40	26.776	45.497	-13.148	1.00	0.00	O
ATOM	372	N	GLU	41	28.925	45.877	-12.635	1.00	0.00	N
ATOM	373	HN	GLU	41	29.596	46.395	-12.068	1.00	0.00	H
ATOM	374	CA	GLU	41	29.376	44.819	-13.497	1.00	0.00	C
ATOM	375	CB	GLU	41	30.906	44.669	-13.502	1.00	0.00	C
ATOM	376	CG	GLU	41	31.611	45.871	-14.133	1.00	0.00	C
ATOM	377	CD	GLU	41	33.110	45.622	-14.088	1.00	0.00	C
ATOM	378	OE1	GLU	41	33.509	44.461	-13.808	1.00	0.00	O
ATOM	379	OE2	GLU	41	33.877	46.591	-14.336	1.00	0.00	O
ATOM	380	C	GLU	41	28.769	43.533	-13.045	1.00	0.00	C
ATOM	381	O	GLU	41	28.420	42.677	-13.858	1.00	0.00	O
ATOM	382	N	MET	42	28.635	43.348	-11.724	1.00	0.00	N
ATOM	383	HN	MET	42	28.951	44.056	-11.061	1.00	0.00	H
ATOM	384	CA	MET	42	28.038	42.132	-11.270	1.00	0.00	C
ATOM	385	CB	MET	42	28.008	41.988	-9.738	1.00	0.00	C
ATOM	386	CG	MET	42	27.058	42.954	-9.028	1.00	0.00	C
ATOM	387	SD	MET	42	27.012	42.760	-7.219	1.00	0.00	S
ATOM	388	CE	MET	42	28.698	43.371	-6.934	1.00	0.00	C
ATOM	389	C	MET	42	26.628	42.134	-11.765	1.00	0.00	C
ATOM	390	O	MET	42	26.098	41.106	-12.183	1.00	0.00	O
ATOM	391	N	THR	43	25.994	43.320	-11.739	1.00	0.00	N
ATOM	392	HN	THR	43	26.509	44.137	-11.412	1.00	0.00	H
ATOM	393	CA	THR	43	24.631	43.493	-12.147	1.00	0.00	C
ATOM	394	CB	THR	43	24.154	44.909	-11.982	1.00	0.00	C
ATOM	395	OG1	THR	43	24.210	45.298	-10.618	1.00	0.00	O
ATOM	396	HG1	THR	43	25.099	45.229	-10.289	1.00	0.00	H
ATOM	397	CG2	THR	43	22.716	45.020	-12.514	1.00	0.00	C
ATOM	398	C	THR	43	24.478	43.174	-13.606	1.00	0.00	C
ATOM	399	O	THR	43	23.484	42.568	-14.003	1.00	0.00	O
ATOM	400	N	ASP	44	25.436	43.596	-14.457	1.00	0.00	N
ATOM	401	HN	ASP	44	26.262	44.078	-14.102	1.00	0.00	H
ATOM	402	CA	ASP	44	25.286	43.362	-15.868	1.00	0.00	C
ATOM	403	CB	ASP	44	26.401	43.986	-16.729	1.00	0.00	C
ATOM	404	CG	ASP	44	26.074	45.452	-16.970	1.00	0.00	C
ATOM	405	OD1	ASP	44	24.859	45.777	-17.056	1.00	0.00	O
ATOM	406	OD2	ASP	44	27.032	46.263	-17.086	1.00	0.00	O
ATOM	407	C	ASP	44	25.265	41.898	-16.175	1.00	0.00	C
ATOM	408	O	ASP	44	24.394	41.423	-16.902	1.00	0.00	O
ATOM	409	N	ILE	45	26.200	41.125	-15.601	1.00	0.00	N
ATOM	410	HN	ILE	45	26.876	41.526	-14.951	1.00	0.00	H
ATOM	411	CA	ILE	45	26.235	39.725	-15.916	1.00	0.00	C
ATOM	412	CB	ILE	45	27.343	38.953	-15.272	1.00	0.00	C
ATOM	413	CG1	ILE	45	27.396	37.556	-15.916	1.00	0.00	C
ATOM	414	CG2	ILE	45	27.129	38.954	-13.750	1.00	0.00	C
ATOM	415	CD1	ILE	45	28.681	36.780	-15.642	1.00	0.00	C
ATOM	416	C	ILE	45	24.928	39.143	-15.477	1.00	0.00	C
ATOM	417	O	ILE	45	24.409	38.196	-16.066	1.00	0.00	O
ATOM	418	N	PHE	46	24.384	39.720	-14.397	1.00	0.00	N
ATOM	419	HN	PHE	46	24.897	40.500	-13.986	1.00	0.00	H
ATOM	420	CA	PHE	46	23.153	39.350	-13.762	1.00	0.00	C
ATOM	421	CB	PHE	46	22.917	40.300	-12.571	1.00	0.00	C
ATOM	422	CG	PHE	46	21.734	39.935	-11.745	1.00	0.00	C
ATOM	423	CD1	PHE	46	21.815	38.913	-10.830	1.00	0.00	C
ATOM	424	CD2	PHE	46	20.560	40.645	-11.855	1.00	0.00	C
ATOM	425	CE1	PHE	46	20.731	38.584	-10.053	1.00	0.00	C
ATOM	426	CE2	PHE	46	19.471	40.322	-11.081	1.00	0.00	C
ATOM	427	CZ	PHE	46	19.557	39.288	-10.180	1.00	0.00	C
ATOM	428	C	PHE	46	22.029	39.505	-14.752	1.00	0.00	C
ATOM	429	O	PHE	46	21.118	38.677	-14.815	1.00	0.00	O
ATOM	430	N	ALA	47	22.040	40.610	-15.520	1.00	0.00	N
ATOM	431	HN	ALA	47	22.792	41.289	-15.404	1.00	0.00	H
ATOM	432	CA	ALA	47	21.020	40.857	-16.498	1.00	0.00	C
ATOM	433	CB	ALA	47	21.135	42.252	-17.139	1.00	0.00	C
ATOM	434	C	ALA	47	21.102	39.852	-17.601	1.00	0.00	C
ATOM	435	O	ALA	47	20.080	39.315	-18.013	1.00	0.00	O
ATOM	436	N	ASN	48	22.320	39.543	-18.091	1.00	0.00	N
ATOM	437	HN	ASN	48	23.150	39.940	-17.651	1.00	0.00	H
ATOM	438	CA	ASN	48	22.474	38.665	-19.223	1.00	0.00	C
ATOM	439	CB	ASN	48	23.952	38.443	-19.596	1.00	0.00	C
ATOM	440	CG	ASN	48	24.017	37.796	-20.974	1.00	0.00	C
ATOM	441	OD1	ASN	48	23.030	37.766	-21.706	1.00	0.00	O

ATOM	442	ND2	ASN	48	25.214	37.263	-21.341	1.00	0.00	N
ATOM	443	1HD2	ASN	48	26.033	37.288	-20.734	1.00	0.00	H
ATOM	444	2HD2	ASN	48	25.258	36.830	-22.263	1.00	0.00	H
ATOM	445	C	ASN	48	21.902	37.326	-18.881	1.00	0.00	C
ATOM	446	O	ASN	48	21.171	36.729	-19.672	1.00	0.00	O
ATOM	447	N	ALA	49	22.221	36.819	-17.678	1.00	0.00	N
ATOM	448	HN	ALA	49	22.818	37.353	-17.046	1.00	0.00	H
ATOM	449	CA	ALA	49	21.729	35.535	-17.276	1.00	0.00	C
ATOM	450	CB	ALA	49	22.235	35.110	-15.887	1.00	0.00	C
ATOM	451	C	ALA	49	20.237	35.616	-17.207	1.00	0.00	C
ATOM	452	O	ALA	49	19.514	34.704	-17.601	1.00	0.00	O
ATOM	453	N	GLY	50	19.726	36.732	-16.682	1.00	0.00	N
ATOM	454	HN	GLY	50	20.352	37.468	-16.354	1.00	0.00	H
ATOM	455	CA	GLY	50	18.313	36.907	-16.575	1.00	0.00	C
ATOM	456	C	GLY	50	17.715	36.996	-17.945	1.00	0.00	C
ATOM	457	O	GLY	50	16.555	36.663	-18.133	1.00	0.00	O
ATOM	458	N	ASN	51	18.447	37.543	-18.925	1.00	0.00	N
ATOM	459	HN	ASN	51	19.403	37.830	-18.716	1.00	0.00	H
ATOM	460	CA	ASN	51	17.947	37.743	-20.252	1.00	0.00	C
ATOM	461	CB	ASN	51	18.926	38.560	-21.113	1.00	0.00	C
ATOM	462	CG	ASN	51	18.220	38.995	-22.388	1.00	0.00	C
ATOM	463	OD1	ASN	51	17.748	38.169	-23.167	1.00	0.00	O
ATOM	464	ND2	ASN	51	18.143	40.335	-22.607	1.00	0.00	N
ATOM	465	1HD2	ASN	51	18.535	41.020	-21.961	1.00	0.00	H
ATOM	466	2HD2	ASN	51	17.670	40.627	-23.462	1.00	0.00	H
ATOM	467	C	ASN	51	17.752	36.428	-20.922	1.00	0.00	C
ATOM	468	O	ASN	51	16.718	36.176	-21.535	1.00	0.00	O
ATOM	469	N	LEU	52	18.772	35.558	-20.871	1.00	0.00	N
ATOM	470	HN	LEU	52	19.648	35.797	-20.406	1.00	0.00	H
ATOM	471	CA	LEU	52	18.588	34.287	-21.490	1.00	0.00	C
ATOM	472	CB	LEU	52	19.890	33.477	-21.589	1.00	0.00	C
ATOM	473	CG	LEU	52	19.703	32.104	-22.256	1.00	0.00	C
ATOM	474	CD1	LEU	52	19.254	32.252	-23.718	1.00	0.00	C
ATOM	475	CD2	LEU	52	20.963	31.238	-22.104	1.00	0.00	C
ATOM	476	C	LEU	52	17.625	33.499	-20.668	1.00	0.00	C
ATOM	477	O	LEU	52	16.751	32.808	-21.190	1.00	0.00	O
ATOM	478	N	GLU	53	17.846	33.485	-19.341	1.00	0.00	N
ATOM	479	HN	GLU	53	18.612	34.021	-18.932	1.00	0.00	H
ATOM	480	CA	GLU	53	16.980	32.699	-18.518	1.00	0.00	C
ATOM	481	CB	GLU	53	17.674	32.206	-17.249	1.00	0.00	C
ATOM	482	CG	GLU	53	16.873	31.150	-16.505	1.00	0.00	C
ATOM	483	CD	GLU	53	16.924	29.866	-17.322	1.00	0.00	C
ATOM	484	OE1	GLU	53	16.227	29.804	-18.370	1.00	0.00	O
ATOM	485	OE2	GLU	53	17.662	28.932	-16.908	1.00	0.00	O
ATOM	486	C	GLU	53	15.737	33.331	-18.052	1.00	0.00	C
ATOM	487	O	GLU	53	14.659	32.956	-18.495	1.00	0.00	O
ATOM	488	N	ASP	54	15.901	34.352	-17.180	1.00	0.00	N
ATOM	489	HN	ASP	54	16.860	34.679	-17.059	1.00	0.00	H
ATOM	490	CA	ASP	54	14.901	35.043	-16.396	1.00	0.00	C
ATOM	491	CB	ASP	54	14.062	36.090	-17.160	1.00	0.00	C
ATOM	492	CG	ASP	54	13.252	36.962	-16.212	1.00	0.00	C
ATOM	493	OD1	ASP	54	13.656	37.092	-15.026	1.00	0.00	O
ATOM	494	OD2	ASP	54	12.217	37.516	-16.670	1.00	0.00	O
ATOM	495	C	ASP	54	13.954	34.061	-15.773	1.00	0.00	C
ATOM	496	O	ASP	54	13.943	32.869	-16.075	1.00	0.00	O
ATOM	497	N	LEU	55	13.151	34.534	-14.804	1.00	0.00	N
ATOM	498	HN	LEU	55	13.271	35.475	-14.430	1.00	0.00	H
ATOM	499	CA	LEU	55	12.128	33.672	-14.321	1.00	0.00	C
ATOM	500	CB	LEU	55	11.201	34.338	-13.291	1.00	0.00	C
ATOM	501	CG	LEU	55	10.092	33.397	-12.781	1.00	0.00	C
ATOM	502	CD1	LEU	55	10.683	32.199	-12.023	1.00	0.00	C
ATOM	503	CD2	LEU	55	9.031	34.161	-11.971	1.00	0.00	C
ATOM	504	C	LEU	55	11.331	33.434	-15.551	1.00	0.00	C
ATOM	505	O	LEU	55	10.910	32.315	-15.841	1.00	0.00	O
ATOM	506	N	MET	56	11.147	34.515	-16.332	1.00	0.00	N
ATOM	507	HN	MET	56	11.490	35.430	-16.039	1.00	0.00	H
ATOM	508	CA	MET	56	10.467	34.364	-17.572	1.00	0.00	C
ATOM	509	CB	MET	56	9.143	35.141	-17.592	1.00	0.00	C
ATOM	510	CG	MET	56	8.133	34.618	-16.570	1.00	0.00	C
ATOM	511	SD	MET	56	6.732	35.732	-16.262	1.00	0.00	S
ATOM	512	CE	MET	56	7.640	36.810	-15.116	1.00	0.00	C
ATOM	513	C	MET	56	11.326	34.937	-18.661	1.00	0.00	C
ATOM	514	O	MET	56	10.904	35.863	-19.351	1.00	0.00	O
ATOM	515	N	SER	57	12.559	34.421	-18.866	1.00	0.00	N

ATOM	516	HN	SER	57	12.976	33.731	-18.241	1.00	0.00	H
ATOM	517	CA	SER	57	13.234	34.916	-20.025	1.00	0.00	C
ATOM	518	CB	SER	57	14.681	35.360	-19.918	1.00	0.00	C
ATOM	519	OG	SER	57	14.645	36.775	-19.805	1.00	0.00	O
ATOM	520	HG	SER	57	15.551	37.053	-19.738	1.00	0.00	H
ATOM	521	C	SER	57	13.083	33.981	-21.157	1.00	0.00	C
ATOM	522	O	SER	57	12.004	33.429	-21.360	1.00	0.00	O
ATOM	523	N	ASN	58	14.166	33.825	-21.947	1.00	0.00	N
ATOM	524	HN	ASN	58	15.048	34.269	-21.691	1.00	0.00	H
ATOM	525	CA	ASN	58	14.086	33.041	-23.140	1.00	0.00	C
ATOM	526	CB	ASN	58	15.464	32.839	-23.796	1.00	0.00	C
ATOM	527	CG	ASN	58	15.263	32.226	-25.172	1.00	0.00	C
ATOM	528	OD1	ASN	58	14.140	32.122	-25.663	1.00	0.00	O
ATOM	529	ND2	ASN	58	16.384	31.798	-25.812	1.00	0.00	N
ATOM	530	1HD2	ASN	58	16.249	31.387	-26.736	1.00	0.00	H
ATOM	531	2HD2	ASN	58	17.315	31.884	-25.405	1.00	0.00	H
ATOM	532	C	ASN	58	13.554	31.690	-22.782	1.00	0.00	C
ATOM	533	O	ASN	58	12.438	31.378	-23.198	1.00	0.00	O
ATOM	534	N	ILE	59	14.282	30.920	-21.925	1.00	0.00	N
ATOM	535	HN	ILE	59	15.166	31.297	-21.582	1.00	0.00	H
ATOM	536	CA	ILE	59	13.887	29.600	-21.466	1.00	0.00	C
ATOM	537	CB	ILE	59	12.970	29.639	-20.253	1.00	0.00	C
ATOM	538	CG1	ILE	59	13.570	30.576	-19.212	1.00	0.00	C
ATOM	539	CG2	ILE	59	12.851	28.249	-19.594	1.00	0.00	C
ATOM	540	CD1	ILE	59	12.623	30.904	-18.058	1.00	0.00	C
ATOM	541	C	ILE	59	13.236	28.851	-22.612	1.00	0.00	C
ATOM	542	O	ILE	59	13.474	29.153	-23.780	1.00	0.00	O
ATOM	543	N	THR	60	12.543	27.737	-22.309	1.00	0.00	N
ATOM	544	HN	THR	60	12.583	27.399	-21.347	1.00	0.00	H
ATOM	545	CA	THR	60	11.753	26.994	-23.246	1.00	0.00	C
ATOM	546	CB	THR	60	10.514	27.711	-23.721	1.00	0.00	C
ATOM	547	OG1	THR	60	9.691	26.810	-24.443	1.00	0.00	O
ATOM	548	HG1	THR	60	9.461	26.074	-23.888	1.00	0.00	H
ATOM	549	CG2	THR	60	10.886	28.902	-24.619	1.00	0.00	C
ATOM	550	C	THR	60	12.601	26.636	-24.407	1.00	0.00	C
ATOM	551	O	THR	60	12.129	26.541	-25.538	1.00	0.00	O
ATOM	552	N	ASN	61	13.896	26.416	-24.130	1.00	0.00	N
ATOM	553	HN	ASN	61	14.230	26.516	-23.171	1.00	0.00	H
ATOM	554	CA	ASN	61	14.811	26.044	-25.158	1.00	0.00	C
ATOM	555	CB	ASN	61	15.537	27.233	-25.812	1.00	0.00	C
ATOM	556	CG	ASN	61	14.537	27.946	-26.717	1.00	0.00	C
ATOM	557	OD1	ASN	61	13.767	27.308	-27.434	1.00	0.00	O
ATOM	558	ND2	ASN	61	14.543	29.306	-26.685	1.00	0.00	N
ATOM	559	1HD2	ASN	61	15.181	29.835	-26.091	1.00	0.00	H
ATOM	560	2HD2	ASN	61	13.874	29.783	-27.290	1.00	0.00	H
ATOM	561	C	ASN	61	15.826	25.148	-24.525	1.00	0.00	C
ATOM	562	O	ASN	61	15.558	24.496	-23.516	1.00	0.00	O
ATOM	563	N	ARG	62	17.029	25.107	-25.125	1.00	0.00	N
ATOM	564	HN	ARG	62	17.197	25.728	-25.916	1.00	0.00	H
ATOM	565	CA	ARG	62	18.087	24.233	-24.708	1.00	0.00	C
ATOM	566	CB	ARG	62	19.403	24.629	-25.393	1.00	0.00	C
ATOM	567	CG	ARG	62	19.234	24.777	-26.906	1.00	0.00	C
ATOM	568	CD	ARG	62	20.277	25.684	-27.561	1.00	0.00	C
ATOM	569	NE	ARG	62	19.894	25.839	-28.994	1.00	0.00	N
ATOM	570	HE	ARG	62	20.323	25.240	-29.700	1.00	0.00	H
ATOM	571	CZ	ARG	62	18.973	26.776	-29.370	1.00	0.00	C
ATOM	572	NH1	ARG	62	18.379	27.576	-28.437	1.00	0.00	N
ATOM	573	1HH1	ARG	62	17.692	28.275	-28.718	1.00	0.00	H
ATOM	574	2HH1	ARG	62	18.628	27.475	-27.453	1.00	0.00	H
ATOM	575	NH2	ARG	62	18.640	26.911	-30.687	1.00	0.00	N
ATOM	576	1HH2	ARG	62	17.953	27.610	-30.968	1.00	0.00	H
ATOM	577	2HH2	ARG	62	19.084	26.313	-31.384	1.00	0.00	H
ATOM	578	C	ARG	62	18.282	24.401	-23.230	1.00	0.00	C
ATOM	579	O	ARG	62	18.797	25.415	-22.765	1.00	0.00	O
ATOM	580	N	SER	63	17.874	23.378	-22.453	1.00	0.00	N
ATOM	581	HN	SER	63	17.474	22.554	-22.902	1.00	0.00	H
ATOM	582	CA	SER	63	17.977	23.396	-21.021	1.00	0.00	C
ATOM	583	CB	SER	63	17.262	22.202	-20.365	1.00	0.00	C
ATOM	584	OG	SER	63	17.395	22.266	-18.953	1.00	0.00	O
ATOM	585	HG	SER	63	16.954	21.529	-18.548	1.00	0.00	H
ATOM	586	C	SER	63	19.417	23.319	-20.609	1.00	0.00	C
ATOM	587	O	SER	63	19.861	24.042	-19.717	1.00	0.00	O
ATOM	588	N	ASP	64	20.192	22.443	-21.277	1.00	0.00	N
ATOM	589	HN	ASP	64	19.798	21.942	-22.073	1.00	0.00	H



ATOM	590	CA	ASP	64	21.555	22.193	-20.904	1.00	0.00	C
ATOM	591	CB	ASP	64	22.234	21.118	-21.774	1.00	0.00	C
ATOM	592	CG	ASP	64	22.295	21.613	-23.214	1.00	0.00	C
ATOM	593	OD1	ASP	64	21.311	22.258	-23.665	1.00	0.00	O
ATOM	594	OD2	ASP	64	23.332	21.355	-23.882	1.00	0.00	O
ATOM	595	C	ASP	64	22.351	23.447	-21.045	1.00	0.00	C
ATOM	596	O	ASP	64	23.196	23.752	-20.206	1.00	0.00	O
ATOM	597	N	ILE	65	22.088	24.220	-22.110	1.00	0.00	N
ATOM	598	HN	ILE	65	21.346	23.953	-22.757	1.00	0.00	H
ATOM	599	CA	ILE	65	22.838	25.415	-22.346	1.00	0.00	C
ATOM	600	CB	ILE	65	22.483	26.138	-23.619	1.00	0.00	C
ATOM	601	CG1	ILE	65	23.557	27.189	-23.953	1.00	0.00	C
ATOM	602	CG2	ILE	65	21.084	26.749	-23.460	1.00	0.00	C
ATOM	603	CD1	ILE	65	24.908	26.589	-24.337	1.00	0.00	C
ATOM	604	C	ILE	65	22.579	26.336	-21.203	1.00	0.00	C
ATOM	605	O	ILE	65	23.427	27.153	-20.863	1.00	0.00	O
ATOM	606	N	ASN	66	21.359	26.290	-20.639	1.00	0.00	N
ATOM	607	HN	ASN	66	20.665	25.644	-21.016	1.00	0.00	H
ATOM	608	CA	ASN	66	21.002	27.120	-19.525	1.00	0.00	C
ATOM	609	CB	ASN	66	19.502	27.030	-19.200	1.00	0.00	C
ATOM	610	CG	ASN	66	18.750	27.568	-20.408	1.00	0.00	C
ATOM	611	OD1	ASN	66	17.796	26.956	-20.885	1.00	0.00	O
ATOM	612	ND2	ASN	66	19.194	28.745	-20.926	1.00	0.00	N
ATOM	613	1HD2	ASN	66	18.690	29.106	-21.736	1.00	0.00	H
ATOM	614	2HD2	ASN	66	19.985	29.253	-20.530	1.00	0.00	H
ATOM	615	C	ASN	66	21.769	26.703	-18.307	1.00	0.00	C
ATOM	616	O	ASN	66	22.246	27.536	-17.540	1.00	0.00	O
ATOM	617	N	ASP	67	21.911	25.390	-18.070	1.00	0.00	N
ATOM	618	HN	ASP	67	21.528	24.692	-18.707	1.00	0.00	H
ATOM	619	CA	ASP	67	22.622	25.006	-16.887	1.00	0.00	C
ATOM	620	CB	ASP	67	22.579	23.486	-16.595	1.00	0.00	C
ATOM	621	CG	ASP	67	23.237	22.656	-17.694	1.00	0.00	C
ATOM	622	OD1	ASP	67	24.479	22.759	-17.880	1.00	0.00	O
ATOM	623	OD2	ASP	67	22.498	21.873	-18.349	1.00	0.00	O
ATOM	624	C	ASP	67	24.038	25.463	-17.018	1.00	0.00	C
ATOM	625	O	ASP	67	24.643	25.912	-16.046	1.00	0.00	O
ATOM	626	N	THR	68	24.611	25.341	-18.231	1.00	0.00	N
ATOM	627	HN	THR	68	24.062	24.979	-19.011	1.00	0.00	H
ATOM	628	CA	THR	68	25.980	25.711	-18.444	1.00	0.00	C
ATOM	629	CB	THR	68	26.552	25.204	-19.741	1.00	0.00	C
ATOM	630	OG1	THR	68	27.949	25.455	-19.779	1.00	0.00	O
ATOM	631	HG1	THR	68	28.378	25.033	-19.044	1.00	0.00	H
ATOM	632	CG2	THR	68	25.857	25.887	-20.930	1.00	0.00	C
ATOM	633	C	THR	68	26.170	27.193	-18.403	1.00	0.00	C
ATOM	634	O	THR	68	27.080	27.684	-17.739	1.00	0.00	O
ATOM	635	N	GLY	69	25.302	27.957	-19.091	1.00	0.00	N
ATOM	636	HN	GLY	69	24.498	27.535	-19.556	1.00	0.00	H
ATOM	637	CA	GLY	69	25.521	29.369	-19.162	1.00	0.00	C
ATOM	638	C	GLY	69	25.436	29.942	-17.786	1.00	0.00	C
ATOM	639	O	GLY	69	26.228	30.805	-17.412	1.00	0.00	O
ATOM	640	N	PHE	70	24.435	29.487	-17.012	1.00	0.00	N
ATOM	641	HN	PHE	70	23.840	28.740	-17.371	1.00	0.00	H
ATOM	642	CA	PHE	70	24.169	30.008	-15.704	1.00	0.00	C
ATOM	643	CB	PHE	70	22.758	29.654	-15.231	1.00	0.00	C
ATOM	644	CG	PHE	70	21.969	30.546	-16.116	1.00	0.00	C
ATOM	645	CD1	PHE	70	21.737	30.203	-17.427	1.00	0.00	C
ATOM	646	CD2	PHE	70	21.492	31.741	-15.644	1.00	0.00	C
ATOM	647	CE1	PHE	70	21.033	31.011	-18.276	1.00	0.00	C
ATOM	648	CE2	PHE	70	20.785	32.560	-16.484	1.00	0.00	C
ATOM	649	CZ	PHE	70	20.558	32.195	-17.791	1.00	0.00	C
ATOM	650	C	PHE	70	25.195	29.648	-14.682	1.00	0.00	C
ATOM	651	O	PHE	70	25.676	30.506	-13.946	1.00	0.00	O
ATOM	652	N	PHE	71	25.601	28.375	-14.631	1.00	0.00	N
ATOM	653	HN	PHE	71	25.226	27.700	-15.297	1.00	0.00	H
ATOM	654	CA	PHE	71	26.555	27.948	-13.653	1.00	0.00	C
ATOM	655	CB	PHE	71	26.911	26.465	-13.836	1.00	0.00	C
ATOM	656	CG	PHE	71	27.430	25.917	-12.554	1.00	0.00	C
ATOM	657	CD1	PHE	71	28.664	26.270	-12.065	1.00	0.00	C
ATOM	658	CD2	PHE	71	26.665	25.012	-11.854	1.00	0.00	C
ATOM	659	CE1	PHE	71	29.109	25.732	-10.879	1.00	0.00	C
ATOM	660	CE2	PHE	71	27.107	24.474	-10.671	1.00	0.00	C
ATOM	661	CZ	PHE	71	28.336	24.838	-10.179	1.00	0.00	C
ATOM	662	C	PHE	71	27.773	28.752	-13.968	1.00	0.00	C
ATOM	663	O	PHE	71	28.553	29.112	-13.088	1.00	0.00	O

ATOM	664	N	MET	72	27.961	29.030	-15.271	1.00	0.00	N
ATOM	665	HN	MET	72	27.271	28.712	-15.952	1.00	0.00	H
ATOM	666	CA	MET	72	29.106	29.762	-15.727	1.00	0.00	C
ATOM	667	CB	MET	72	29.088	29.945	-17.258	1.00	0.00	C
ATOM	668	CG	MET	72	30.264	30.740	-17.836	1.00	0.00	C
ATOM	669	SD	MET	72	30.136	32.547	-17.648	1.00	0.00	S
ATOM	670	CE	MET	72	31.535	32.927	-18.741	1.00	0.00	C
ATOM	671	C	MET	72	29.155	31.128	-15.111	1.00	0.00	C
ATOM	672	O	MET	72	30.115	31.461	-14.420	1.00	0.00	O
ATOM	673	N	ASN	73	28.097	31.941	-15.289	1.00	0.00	N
ATOM	674	HN	ASN	73	27.275	31.603	-15.790	1.00	0.00	H
ATOM	675	CA	ASN	73	28.121	33.283	-14.776	1.00	0.00	C
ATOM	676	CB	ASN	73	26.986	34.180	-15.314	1.00	0.00	C
ATOM	677	CG	ASN	73	25.633	33.596	-14.938	1.00	0.00	C
ATOM	678	OD1	ASN	73	25.246	32.531	-15.416	1.00	0.00	O
ATOM	679	ND2	ASN	73	24.884	34.320	-14.064	1.00	0.00	N
ATOM	680	1HD2	ASN	73	25.205	35.203	-13.668	1.00	0.00	H
ATOM	681	2HD2	ASN	73	23.977	33.928	-13.812	1.00	0.00	H
ATOM	682	C	ASN	73	28.047	33.233	-13.286	1.00	0.00	C
ATOM	683	O	ASN	73	28.555	34.118	-12.598	1.00	0.00	O
ATOM	684	N	LEU	74	27.376	32.201	-12.745	1.00	0.00	N
ATOM	685	HN	LEU	74	26.981	31.475	-13.342	1.00	0.00	H
ATOM	686	CA	LEU	74	27.221	32.130	-11.322	1.00	0.00	C
ATOM	687	CB	LEU	74	26.480	30.842	-10.902	1.00	0.00	C
ATOM	688	CG	LEU	74	26.224	30.615	-9.391	1.00	0.00	C
ATOM	689	CD1	LEU	74	25.247	29.453	-9.187	1.00	0.00	C
ATOM	690	CD2	LEU	74	27.501	30.341	-8.582	1.00	0.00	C
ATOM	691	C	LEU	74	28.565	32.067	-10.693	1.00	0.00	C
ATOM	692	O	LEU	74	28.970	32.961	-9.952	1.00	0.00	O
ATOM	693	N	GLU	75	29.323	31.018	-11.033	1.00	0.00	N
ATOM	694	HN	GLU	75	29.004	30.363	-11.746	1.00	0.00	H
ATOM	695	CA	GLU	75	30.582	30.824	-10.389	1.00	0.00	C
ATOM	696	CB	GLU	75	31.292	29.555	-10.859	1.00	0.00	C
ATOM	697	CG	GLU	75	30.487	28.309	-10.534	1.00	0.00	C
ATOM	698	CD	GLU	75	30.303	28.253	-9.026	1.00	0.00	C
ATOM	699	OE1	GLU	75	31.038	28.986	-8.311	1.00	0.00	O
ATOM	700	OE2	GLU	75	29.420	27.479	-8.569	1.00	0.00	O
ATOM	701	C	GLU	75	31.468	31.952	-10.763	1.00	0.00	C
ATOM	702	O	GLU	75	32.207	32.470	-9.928	1.00	0.00	O
ATOM	703	N	GLU	76	31.402	32.368	-12.041	1.00	0.00	N
ATOM	704	HN	GLU	76	30.694	31.991	-12.670	1.00	0.00	H
ATOM	705	CA	GLU	76	32.337	33.346	-12.507	1.00	0.00	C
ATOM	706	CB	GLU	76	32.209	33.644	-14.015	1.00	0.00	C
ATOM	707	CG	GLU	76	30.974	34.452	-14.419	1.00	0.00	C
ATOM	708	CD	GLU	76	31.364	35.923	-14.370	1.00	0.00	C
ATOM	709	OE1	GLU	76	32.410	36.266	-14.982	1.00	0.00	O
ATOM	710	OE2	GLU	76	30.634	36.720	-13.722	1.00	0.00	O
ATOM	711	C	GLU	76	32.179	34.633	-11.757	1.00	0.00	C
ATOM	712	O	GLU	76	33.150	35.174	-11.233	1.00	0.00	O
ATOM	713	N	ASP	77	30.946	35.151	-11.649	1.00	0.00	N
ATOM	714	HN	ASP	77	30.154	34.659	-12.063	1.00	0.00	H
ATOM	715	CA	ASP	77	30.730	36.389	-10.958	1.00	0.00	C
ATOM	716	CB	ASP	77	29.277	36.883	-11.066	1.00	0.00	C
ATOM	717	CG	ASP	77	29.203	38.292	-10.494	1.00	0.00	C
ATOM	718	OD1	ASP	77	30.281	38.864	-10.178	1.00	0.00	O
ATOM	719	OD2	ASP	77	28.065	38.820	-10.372	1.00	0.00	O
ATOM	720	C	ASP	77	31.017	36.131	-9.523	1.00	0.00	C
ATOM	721	O	ASP	77	31.354	37.041	-8.774	1.00	0.00	O
ATOM	722	N	MET	78	30.857	34.869	-9.095	1.00	0.00	N
ATOM	723	HN	MET	78	30.576	34.145	-9.756	1.00	0.00	H
ATOM	724	CA	MET	78	31.075	34.527	-7.723	1.00	0.00	C
ATOM	725	CB	MET	78	30.756	33.051	-7.433	1.00	0.00	C
ATOM	726	CG	MET	78	30.719	32.696	-5.947	1.00	0.00	C
ATOM	727	SD	MET	78	29.908	31.106	-5.603	1.00	0.00	S
ATOM	728	CE	MET	78	28.229	31.771	-5.802	1.00	0.00	C
ATOM	729	C	MET	78	32.508	34.796	-7.396	1.00	0.00	C
ATOM	730	O	MET	78	32.819	35.253	-6.297	1.00	0.00	O
ATOM	731	N	THR	79	33.432	34.499	-8.334	1.00	0.00	N
ATOM	732	HN	THR	79	33.159	34.070	-9.218	1.00	0.00	H
ATOM	733	CA	THR	79	34.805	34.800	-8.058	1.00	0.00	C
ATOM	734	CB	THR	79	35.785	34.357	-9.109	1.00	0.00	C
ATOM	735	OG1	THR	79	35.559	35.038	-10.333	1.00	0.00	O
ATOM	736	HG1	THR	79	35.639	35.977	-10.211	1.00	0.00	H
ATOM	737	CG2	THR	79	35.656	32.843	-9.306	1.00	0.00	C

ATOM	738	C	THR	79	34.911	36.283	-7.985	1.00	0.00	C
ATOM	739	O	THR	79	35.565	36.823	-7.096	1.00	0.00	O
ATOM	740	N	ARG	80	34.210	36.972	-8.905	1.00	0.00	N
ATOM	741	HN	ARG	80	33.614	36.453	-9.550	1.00	0.00	H
ATOM	742	CA	ARG	80	34.260	38.399	-9.022	1.00	0.00	C
ATOM	743	CB	ARG	80	33.300	38.942	-10.093	1.00	0.00	C
ATOM	744	CG	ARG	80	33.674	38.567	-11.526	1.00	0.00	C
ATOM	745	CD	ARG	80	32.699	39.126	-12.565	1.00	0.00	C
ATOM	746	NE	ARG	80	33.271	38.840	-13.908	1.00	0.00	N
ATOM	747	HE	ARG	80	32.964	38.023	-14.436	1.00	0.00	H
ATOM	748	CZ	ARG	80	34.211	39.683	-14.426	1.00	0.00	C
ATOM	749	NH1	ARG	80	34.635	40.757	-13.699	1.00	0.00	N
ATOM	750	1HH1	ARG	80	35.338	41.387	-14.086	1.00	0.00	H
ATOM	751	2HH1	ARG	80	34.245	40.933	-12.773	1.00	0.00	H
ATOM	752	NH2	ARG	80	34.733	39.448	-15.666	1.00	0.00	N
ATOM	753	1HH2	ARG	80	35.436	40.078	-16.053	1.00	0.00	H
ATOM	754	2HH2	ARG	80	34.416	38.645	-16.209	1.00	0.00	H
ATOM	755	C	ARG	80	33.824	39.002	-7.725	1.00	0.00	C
ATOM	756	O	ARG	80	34.417	39.972	-7.256	1.00	0.00	O
ATOM	757	N	TYR	81	32.771	38.442	-7.106	1.00	0.00	N
ATOM	758	HN	TYR	81	32.317	37.626	-7.516	1.00	0.00	H
ATOM	759	CA	TYR	81	32.284	38.984	-5.876	1.00	0.00	C
ATOM	760	CB	TYR	81	31.108	38.201	-5.253	1.00	0.00	C
ATOM	761	CG	TYR	81	29.879	38.265	-6.099	1.00	0.00	C
ATOM	762	CD1	TYR	81	29.158	39.432	-6.223	1.00	0.00	C
ATOM	763	CD2	TYR	81	29.419	37.135	-6.738	1.00	0.00	C
ATOM	764	CE1	TYR	81	28.017	39.478	-6.992	1.00	0.00	C
ATOM	765	CE2	TYR	81	28.280	37.173	-7.507	1.00	0.00	C
ATOM	766	CZ	TYR	81	27.577	38.347	-7.638	1.00	0.00	C
ATOM	767	OH	TYR	81	26.407	38.387	-8.427	1.00	0.00	O
ATOM	768	HH	TYR	81	25.921	39.198	-8.518	1.00	0.00	H
ATOM	769	C	TYR	81	33.393	38.874	-4.882	1.00	0.00	C
ATOM	770	O	TYR	81	33.710	39.827	-4.174	1.00	0.00	O
ATOM	771	N	ALA	82	34.052	37.703	-4.842	1.00	0.00	N
ATOM	772	HN	ALA	82	33.835	36.974	-5.521	1.00	0.00	H
ATOM	773	CA	ALA	82	35.058	37.477	-3.849	1.00	0.00	C
ATOM	774	CB	ALA	82	35.724	36.097	-3.985	1.00	0.00	C
ATOM	775	C	ALA	82	36.132	38.507	-4.000	1.00	0.00	C
ATOM	776	O	ALA	82	36.561	39.111	-3.020	1.00	0.00	O
ATOM	777	N	TYR	83	36.565	38.774	-5.243	1.00	0.00	N
ATOM	778	HN	TYR	83	36.130	38.313	-6.042	1.00	0.00	H
ATOM	779	CA	TYR	83	37.634	39.703	-5.451	1.00	0.00	C
ATOM	780	CB	TYR	83	37.975	39.959	-6.932	1.00	0.00	C
ATOM	781	CG	TYR	83	38.250	38.689	-7.659	1.00	0.00	C
ATOM	782	CD1	TYR	83	39.397	37.959	-7.449	1.00	0.00	C
ATOM	783	CD2	TYR	83	37.347	38.253	-8.599	1.00	0.00	C
ATOM	784	CE1	TYR	83	39.617	36.797	-8.152	1.00	0.00	C
ATOM	785	CE2	TYR	83	37.560	37.094	-9.304	1.00	0.00	C
ATOM	786	CZ	TYR	83	38.698	36.361	-9.078	1.00	0.00	C
ATOM	787	OH	TYR	83	38.927	35.169	-9.797	1.00	0.00	O
ATOM	788	HH	TYR	83	39.715	34.662	-9.641	1.00	0.00	H
ATOM	789	C	TYR	83	37.173	41.039	-4.966	1.00	0.00	C
ATOM	790	O	TYR	83	37.961	41.804	-4.417	1.00	0.00	O
ATOM	791	N	TYR	84	35.896	41.393	-5.216	1.00	0.00	N
ATOM	792	HN	TYR	84	35.235	40.731	-5.622	1.00	0.00	H
ATOM	793	CA	TYR	84	35.500	42.734	-4.891	1.00	0.00	C
ATOM	794	CB	TYR	84	34.205	43.245	-5.566	1.00	0.00	C
ATOM	795	CG	TYR	84	32.954	42.903	-4.829	1.00	0.00	C
ATOM	796	CD1	TYR	84	32.544	43.685	-3.772	1.00	0.00	C
ATOM	797	CD2	TYR	84	32.167	41.845	-5.210	1.00	0.00	C
ATOM	798	CE1	TYR	84	31.385	43.400	-3.088	1.00	0.00	C
ATOM	799	CE2	TYR	84	31.007	41.552	-4.532	1.00	0.00	C
ATOM	800	CZ	TYR	84	30.615	42.327	-3.468	1.00	0.00	C
ATOM	801	OH	TYR	84	29.424	42.025	-2.774	1.00	0.00	O
ATOM	802	HH	TYR	84	29.153	42.561	-2.038	1.00	0.00	H
ATOM	803	C	TYR	84	35.420	42.981	-3.415	1.00	0.00	C
ATOM	804	O	TYR	84	35.947	43.981	-2.933	1.00	0.00	O
ATOM	805	N	TYR	85	34.786	42.084	-2.636	1.00	0.00	N
ATOM	806	HN	TYR	85	34.383	41.232	-3.026	1.00	0.00	H
ATOM	807	CA	TYR	85	34.702	42.377	-1.237	1.00	0.00	C
ATOM	808	CB	TYR	85	33.888	41.381	-0.400	1.00	0.00	C
ATOM	809	CG	TYR	85	34.641	40.113	-0.205	1.00	0.00	C
ATOM	810	CD1	TYR	85	34.568	39.090	-1.120	1.00	0.00	C
ATOM	811	CD2	TYR	85	35.416	39.951	0.921	1.00	0.00	C

ATOM	812	CE1	TYR	85	35.268	37.924	-0.914	1.00	0.00	C
ATOM	813	CE2	TYR	85	36.117	38.788	1.131	1.00	0.00	C
ATOM	814	CZ	TYR	85	36.043	37.772	0.210	1.00	0.00	C
ATOM	815	OH	TYR	85	36.759	36.576	0.419	1.00	0.00	O
ATOM	816	HH	TYR	85	37.295	36.471	1.196	1.00	0.00	H
ATOM	817	C	TYR	85	36.095	42.364	-0.723	1.00	0.00	C
ATOM	818	O	TYR	85	36.450	43.148	0.151	1.00	0.00	O
ATOM	819	N	SER	86	36.928	41.447	-1.242	1.00	0.00	N
ATOM	820	HN	SER	86	36.612	40.813	-1.976	1.00	0.00	H
ATOM	821	CA	SER	86	38.265	41.378	-0.745	1.00	0.00	C
ATOM	822	CB	SER	86	39.099	40.231	-1.349	1.00	0.00	C
ATOM	823	OG	SER	86	39.343	40.438	-2.732	1.00	0.00	O
ATOM	824	HG	SER	86	39.857	39.731	-3.104	1.00	0.00	H
ATOM	825	C	SER	86	38.981	42.673	-0.976	1.00	0.00	C
ATOM	826	O	SER	86	39.271	43.382	-0.016	1.00	0.00	O
ATOM	827	N	GLY	87	39.192	43.070	-2.249	1.00	0.00	N
ATOM	828	HN	GLY	87	38.755	42.559	-3.016	1.00	0.00	H
ATOM	829	CA	GLY	87	40.027	44.206	-2.534	1.00	0.00	C
ATOM	830	C	GLY	87	39.515	45.420	-1.825	1.00	0.00	C
ATOM	831	O	GLY	87	40.293	46.153	-1.216	1.00	0.00	O
ATOM	832	N	ILE	88	38.199	45.686	-1.891	1.00	0.00	N
ATOM	833	HN	ILE	88	37.570	45.073	-2.410	1.00	0.00	H
ATOM	834	CA	ILE	88	37.696	46.848	-1.217	1.00	0.00	C
ATOM	835	CB	ILE	88	36.246	47.107	-1.511	1.00	0.00	C
ATOM	836	CG1	ILE	88	36.041	47.376	-3.010	1.00	0.00	C
ATOM	837	CG2	ILE	88	35.772	48.258	-0.604	1.00	0.00	C
ATOM	838	CD1	ILE	88	36.788	48.610	-3.513	1.00	0.00	C
ATOM	839	C	ILE	88	37.788	46.660	0.266	1.00	0.00	C
ATOM	840	O	ILE	88	38.422	47.443	0.968	1.00	0.00	O
ATOM	841	N	GLY	89	37.230	45.547	0.770	1.00	0.00	N
ATOM	842	HN	GLY	89	36.902	44.821	0.133	1.00	0.00	H
ATOM	843	CA	GLY	89	37.085	45.357	2.184	1.00	0.00	C
ATOM	844	C	GLY	89	38.408	45.406	2.866	1.00	0.00	C
ATOM	845	O	GLY	89	38.582	46.151	3.829	1.00	0.00	O
ATOM	846	N	ALA	90	39.392	44.642	2.368	1.00	0.00	N
ATOM	847	HN	ALA	90	39.232	44.061	1.545	1.00	0.00	H
ATOM	848	CA	ALA	90	40.669	44.657	3.010	1.00	0.00	C
ATOM	849	CB	ALA	90	41.698	43.751	2.314	1.00	0.00	C
ATOM	850	C	ALA	90	41.148	46.058	2.894	1.00	0.00	C
ATOM	851	O	ALA	90	41.694	46.626	3.839	1.00	0.00	O
ATOM	852	N	GLY	91	40.877	46.674	1.730	1.00	0.00	N
ATOM	853	HN	GLY	91	40.315	46.209	1.017	1.00	0.00	H
ATOM	854	CA	GLY	91	41.387	47.987	1.507	1.00	0.00	C
ATOM	855	C	GLY	91	40.897	48.926	2.567	1.00	0.00	C
ATOM	856	O	GLY	91	41.697	49.569	3.238	1.00	0.00	O
ATOM	857	N	VAL	92	39.578	48.975	2.810	1.00	0.00	N
ATOM	858	HN	VAL	92	38.955	48.325	2.330	1.00	0.00	H
ATOM	859	CA	VAL	92	39.029	49.928	3.735	1.00	0.00	C
ATOM	860	CB	VAL	92	37.561	49.715	3.938	1.00	0.00	C
ATOM	861	CG1	VAL	92	37.046	50.763	4.931	1.00	0.00	C
ATOM	862	CG2	VAL	92	36.867	49.714	2.574	1.00	0.00	C
ATOM	863	C	VAL	92	39.642	49.736	5.078	1.00	0.00	C
ATOM	864	O	VAL	92	40.141	50.693	5.666	1.00	0.00	O
ATOM	865	N	LEU	93	39.683	48.479	5.568	1.00	0.00	N
ATOM	866	HN	LEU	93	39.407	47.698	4.973	1.00	0.00	H
ATOM	867	CA	LEU	93	40.108	48.226	6.911	1.00	0.00	C
ATOM	868	CB	LEU	93	40.195	46.719	7.224	1.00	0.00	C
ATOM	869	CG	LEU	93	40.621	46.406	8.670	1.00	0.00	C
ATOM	870	CD1	LEU	93	39.536	46.838	9.670	1.00	0.00	C
ATOM	871	CD2	LEU	93	41.033	44.934	8.833	1.00	0.00	C
ATOM	872	C	LEU	93	41.479	48.802	7.102	1.00	0.00	C
ATOM	873	O	LEU	93	41.717	49.527	8.068	1.00	0.00	O
ATOM	874	N	VAL	94	42.410	48.542	6.164	1.00	0.00	N
ATOM	875	HN	VAL	94	42.176	47.994	5.336	1.00	0.00	H
ATOM	876	CA	VAL	94	43.738	49.052	6.354	1.00	0.00	C
ATOM	877	CB	VAL	94	44.724	48.564	5.326	1.00	0.00	C
ATOM	878	CG1	VAL	94	44.840	47.038	5.462	1.00	0.00	C
ATOM	879	CG2	VAL	94	44.298	49.027	3.923	1.00	0.00	C
ATOM	880	C	VAL	94	43.751	50.560	6.343	1.00	0.00	C
ATOM	881	O	VAL	94	44.300	51.183	7.250	1.00	0.00	O
ATOM	882	N	ALA	95	43.139	51.186	5.318	1.00	0.00	N
ATOM	883	HN	ALA	95	42.628	50.617	4.643	1.00	0.00	H
ATOM	884	CA	ALA	95	43.166	52.615	5.122	1.00	0.00	C
ATOM	885	CB	ALA	95	42.580	53.032	3.763	1.00	0.00	C

ATOM	886	C	ALA	95	42.414	53.373	6.173	1.00	0.00	C
ATOM	887	O	ALA	95	42.821	54.472	6.550	1.00	0.00	O
ATOM	888	N	ALA	96	41.263	52.841	6.627	1.00	0.00	N
ATOM	889	HN	ALA	96	40.960	51.927	6.290	1.00	0.00	H
ATOM	890	CA	ALA	96	40.459	53.550	7.581	1.00	0.00	C
ATOM	891	CB	ALA	96	39.172	52.795	7.955	1.00	0.00	C
ATOM	892	C	ALA	96	41.263	53.711	8.823	1.00	0.00	C
ATOM	893	O	ALA	96	41.419	54.820	9.336	1.00	0.00	O
ATOM	894	N	TYR	97	41.888	52.604	9.263	1.00	0.00	N
ATOM	895	HN	TYR	97	41.809	51.741	8.726	1.00	0.00	H
ATOM	896	CA	TYR	97	42.660	52.609	10.465	1.00	0.00	C
ATOM	897	CB	TYR	97	43.354	51.263	10.735	1.00	0.00	C
ATOM	898	CG	TYR	97	44.335	51.484	11.832	1.00	0.00	C
ATOM	899	CD1	TYR	97	43.930	51.603	13.142	1.00	0.00	C
ATOM	900	CD2	TYR	97	45.676	51.562	11.537	1.00	0.00	C
ATOM	901	CE1	TYR	97	44.852	51.810	14.143	1.00	0.00	C
ATOM	902	CE2	TYR	97	46.601	51.768	12.530	1.00	0.00	C
ATOM	903	CZ	TYR	97	46.190	51.894	13.835	1.00	0.00	C
ATOM	904	OH	TYR	97	47.146	52.107	14.849	1.00	0.00	O
ATOM	905	HH	TYR	97	46.862	52.194	15.751	1.00	0.00	H
ATOM	906	C	TYR	97	43.707	53.657	10.300	1.00	0.00	C
ATOM	907	O	TYR	97	44.058	54.350	11.253	1.00	0.00	O
ATOM	908	N	ILE	98	44.245	53.787	9.075	1.00	0.00	N
ATOM	909	HN	ILE	98	43.918	53.190	8.315	1.00	0.00	H
ATOM	910	CA	ILE	98	45.273	54.755	8.824	1.00	0.00	C
ATOM	911	CB	ILE	98	45.802	54.684	7.421	1.00	0.00	C
ATOM	912	CG1	ILE	98	46.440	53.310	7.168	1.00	0.00	C
ATOM	913	CG2	ILE	98	46.777	55.857	7.217	1.00	0.00	C
ATOM	914	CD1	ILE	98	47.599	53.003	8.115	1.00	0.00	C
ATOM	915	C	ILE	98	44.753	56.155	9.034	1.00	0.00	C
ATOM	916	O	ILE	98	45.376	56.942	9.743	1.00	0.00	O
ATOM	917	N	GLN	99	43.570	56.490	8.476	1.00	0.00	N
ATOM	918	HN	GLN	99	43.039	55.770	7.986	1.00	0.00	H
ATOM	919	CA	GLN	99	43.026	57.826	8.545	1.00	0.00	C
ATOM	920	CB	GLN	99	41.574	57.908	8.027	1.00	0.00	C
ATOM	921	CG	GLN	99	41.314	57.390	6.614	1.00	0.00	C
ATOM	922	CD	GLN	99	39.806	57.452	6.365	1.00	0.00	C
ATOM	923	OE1	GLN	99	39.277	56.744	5.510	1.00	0.00	O
ATOM	924	NE2	GLN	99	39.089	58.317	7.132	1.00	0.00	N
ATOM	925	1HE2	GLN	99	39.528	58.904	7.841	1.00	0.00	H
ATOM	926	2HE2	GLN	99	38.083	58.358	6.966	1.00	0.00	H
ATOM	927	C	GLN	99	42.860	58.209	9.985	1.00	0.00	C
ATOM	928	O	GLN	99	43.012	59.367	10.360	1.00	0.00	O
ATOM	929	N	VAL	100	42.448	57.257	10.828	1.00	0.00	N
ATOM	930	HN	VAL	100	42.291	56.312	10.478	1.00	0.00	H
ATOM	931	CA	VAL	100	42.223	57.541	12.217	1.00	0.00	C
ATOM	932	CB	VAL	100	41.564	56.399	12.933	1.00	0.00	C
ATOM	933	CG1	VAL	100	41.361	56.789	14.408	1.00	0.00	C
ATOM	934	CG2	VAL	100	40.271	56.030	12.186	1.00	0.00	C
ATOM	935	C	VAL	100	43.531	57.817	12.897	1.00	0.00	C
ATOM	936	O	VAL	100	43.612	58.639	13.811	1.00	0.00	O
ATOM	937	N	SER	101	44.598	57.108	12.484	1.00	0.00	N
ATOM	938	HN	SER	101	44.491	56.426	11.733	1.00	0.00	H
ATOM	939	CA	SER	101	45.883	57.302	13.089	1.00	0.00	C
ATOM	940	CB	SER	101	46.963	56.375	12.512	1.00	0.00	C
ATOM	941	OG	SER	101	46.639	55.019	12.782	1.00	0.00	O
ATOM	942	HG	SER	101	47.307	54.446	12.425	1.00	0.00	H
ATOM	943	C	SER	101	46.282	58.713	12.798	1.00	0.00	C
ATOM	944	O	SER	101	47.074	59.319	13.521	1.00	0.00	O
ATOM	945	N	PHE	102	45.741	59.261	11.695	1.00	0.00	N
ATOM	946	HN	PHE	102	45.143	58.686	11.101	1.00	0.00	H
ATOM	947	CA	PHE	102	45.977	60.624	11.327	1.00	0.00	C
ATOM	948	CB	PHE	102	45.152	61.016	10.081	1.00	0.00	C
ATOM	949	CG	PHE	102	45.272	62.435	9.613	1.00	0.00	C
ATOM	950	CD1	PHE	102	45.001	63.505	10.436	1.00	0.00	C
ATOM	951	CD2	PHE	102	45.674	62.701	8.327	1.00	0.00	C
ATOM	952	CE1	PHE	102	45.096	64.802	10.001	1.00	0.00	C
ATOM	953	CE2	PHE	102	45.772	63.997	7.877	1.00	0.00	C
ATOM	954	CZ	PHE	102	45.480	65.051	8.709	1.00	0.00	C
ATOM	955	C	PHE	102	45.428	61.439	12.445	1.00	0.00	C
ATOM	956	O	PHE	102	46.143	62.230	13.056	1.00	0.00	O
ATOM	957	N	TRP	103	44.148	61.185	12.784	1.00	0.00	N
ATOM	958	HN	TRP	103	43.676	60.371	12.390	1.00	0.00	H
ATOM	959	CA	TRP	103	43.443	62.039	13.688	1.00	0.00	C

ATOM	960	CB	TRP	103	42.044	61.476	14.036	1.00	0.00	C
ATOM	961	CG	TRP	103	41.243	62.222	15.086	1.00	0.00	C
ATOM	962	CD2	TRP	103	39.840	62.522	14.961	1.00	0.00	C
ATOM	963	CD1	TRP	103	41.641	62.753	16.280	1.00	0.00	C
ATOM	964	NE1	TRP	103	40.577	63.354	16.908	1.00	0.00	N
ATOM	965	HE1	TRP	103	40.606	63.818	17.816	1.00	0.00	H
ATOM	966	CE2	TRP	103	39.464	63.224	16.106	1.00	0.00	C
ATOM	967	CE3	TRP	103	38.943	62.250	13.966	1.00	0.00	C
ATOM	968	CZ2	TRP	103	38.181	63.665	16.273	1.00	0.00	C
ATOM	969	CZ3	TRP	103	37.647	62.684	14.145	1.00	0.00	C
ATOM	970	CH2	TRP	103	37.273	63.379	15.276	1.00	0.00	C
ATOM	971	C	TRP	103	44.210	62.254	14.953	1.00	0.00	C
ATOM	972	O	TRP	103	44.722	63.347	15.182	1.00	0.00	O
ATOM	973	N	CYS	104	44.387	61.212	15.769	1.00	0.00	N
ATOM	974	HN	CYS	104	44.098	60.276	15.485	1.00	0.00	H
ATOM	975	CA	CYS	104	44.988	61.430	17.047	1.00	0.00	C
ATOM	976	CB	CYS	104	44.781	60.258	18.010	1.00	0.00	C
ATOM	977	SG	CYS	104	43.034	59.991	18.433	1.00	0.00	S
ATOM	978	C	CYS	104	46.438	61.735	17.020	1.00	0.00	C
ATOM	979	O	CYS	104	46.855	62.602	17.780	1.00	0.00	O
ATOM	980	N	LEU	105	47.245	61.056	16.173	1.00	0.00	N
ATOM	981	HN	LEU	105	46.859	60.401	15.494	1.00	0.00	H
ATOM	982	CA	LEU	105	48.661	61.283	16.256	1.00	0.00	C
ATOM	983	CB	LEU	105	49.468	60.522	15.191	1.00	0.00	C
ATOM	984	CG	LEU	105	49.515	59.005	15.435	1.00	0.00	C
ATOM	985	CD1	LEU	105	50.339	58.284	14.356	1.00	0.00	C
ATOM	986	CD2	LEU	105	50.013	58.703	16.859	1.00	0.00	C
ATOM	987	C	LEU	105	48.879	62.735	16.035	1.00	0.00	C
ATOM	988	O	LEU	105	49.526	63.404	16.842	1.00	0.00	O
ATOM	989	N	ALA	106	48.246	63.276	14.986	1.00	0.00	N
ATOM	990	HN	ALA	106	47.637	62.719	14.387	1.00	0.00	H
ATOM	991	CA	ALA	106	48.460	64.663	14.744	1.00	0.00	C
ATOM	992	CB	ALA	106	47.794	65.126	13.439	1.00	0.00	C
ATOM	993	C	ALA	106	47.918	65.533	15.841	1.00	0.00	C
ATOM	994	O	ALA	106	48.676	66.086	16.633	1.00	0.00	O
ATOM	995	N	ALA	107	46.591	65.523	16.046	1.00	0.00	N
ATOM	996	HN	ALA	107	46.017	64.838	15.554	1.00	0.00	H
ATOM	997	CA	ALA	107	45.958	66.453	16.942	1.00	0.00	C
ATOM	998	CB	ALA	107	44.440	66.234	17.048	1.00	0.00	C
ATOM	999	C	ALA	107	46.538	66.276	18.303	1.00	0.00	C
ATOM	1000	O	ALA	107	46.751	67.239	19.037	1.00	0.00	O
ATOM	1001	N	GLY	108	46.848	65.028	18.666	1.00	0.00	N
ATOM	1002	HN	GLY	108	46.753	64.256	18.006	1.00	0.00	H
ATOM	1003	CA	GLY	108	47.314	64.795	19.993	1.00	0.00	C
ATOM	1004	C	GLY	108	48.561	65.589	20.265	1.00	0.00	C
ATOM	1005	O	GLY	108	48.569	66.444	21.149	1.00	0.00	O
ATOM	1006	N	ARG	109	49.621	65.404	19.457	1.00	0.00	N
ATOM	1007	HN	ARG	109	49.542	64.796	18.642	1.00	0.00	H
ATOM	1008	CA	ARG	109	50.865	66.065	19.746	1.00	0.00	C
ATOM	1009	CB	ARG	109	51.989	65.630	18.791	1.00	0.00	C
ATOM	1010	CG	ARG	109	52.358	64.153	18.954	1.00	0.00	C
ATOM	1011	CD	ARG	109	53.488	63.684	18.035	1.00	0.00	C
ATOM	1012	NE	ARG	109	53.820	62.281	18.410	1.00	0.00	N
ATOM	1013	HE	ARG	109	53.369	61.503	17.929	1.00	0.00	H
ATOM	1014	CZ	ARG	109	54.730	62.039	19.399	1.00	0.00	C
ATOM	1015	NH1	ARG	109	55.281	63.080	20.087	1.00	0.00	N
ATOM	1016	1HH1	ARG	109	55.961	62.899	20.826	1.00	0.00	H
ATOM	1017	2HH1	ARG	109	55.011	64.038	19.864	1.00	0.00	H
ATOM	1018	NH2	ARG	109	55.091	60.757	19.697	1.00	0.00	N
ATOM	1019	1HH2	ARG	109	55.771	60.576	20.436	1.00	0.00	H
ATOM	1020	2HH2	ARG	109	54.679	59.979	19.183	1.00	0.00	H
ATOM	1021	C	ARG	109	50.678	67.539	19.620	1.00	0.00	C
ATOM	1022	O	ARG	109	51.191	68.323	20.420	1.00	0.00	O
ATOM	1023	N	GLN	110	49.896	67.955	18.615	1.00	0.00	N
ATOM	1024	HN	GLN	110	49.413	67.279	18.024	1.00	0.00	H
ATOM	1025	CA	GLN	110	49.747	69.357	18.381	1.00	0.00	C
ATOM	1026	CB	GLN	110	48.861	69.685	17.171	1.00	0.00	C
ATOM	1027	CG	GLN	110	49.438	69.174	15.852	1.00	0.00	C
ATOM	1028	CD	GLN	110	48.680	69.856	14.727	1.00	0.00	C
ATOM	1029	OE1	GLN	110	49.006	70.979	14.345	1.00	0.00	O
ATOM	1030	NE2	GLN	110	47.640	69.170	14.183	1.00	0.00	N
ATOM	1031	1HE2	GLN	110	47.131	69.628	13.427	1.00	0.00	H
ATOM	1032	2HE2	GLN	110	47.370	68.239	14.500	1.00	0.00	H
ATOM	1033	C	GLN	110	49.137	70.012	19.580	1.00	0.00	C

ATOM	1034	O	GLN	110	49.528	71.115	19.958	1.00	0.00	O
ATOM	1035	N	ILE	111	48.137	69.367	20.198	1.00	0.00	N
ATOM	1036	HN	ILE	111	47.826	68.453	19.870	1.00	0.00	H
ATOM	1037	CA	ILE	111	47.516	69.989	21.327	1.00	0.00	C
ATOM	1038	CB	ILE	111	46.190	69.420	21.716	1.00	0.00	C
ATOM	1039	CG1	ILE	111	45.189	69.773	20.611	1.00	0.00	C
ATOM	1040	CG2	ILE	111	45.789	69.980	23.093	1.00	0.00	C
ATOM	1041	CD1	ILE	111	43.794	69.252	20.889	1.00	0.00	C
ATOM	1042	C	ILE	111	48.409	70.037	22.515	1.00	0.00	C
ATOM	1043	O	ILE	111	48.423	71.052	23.200	1.00	0.00	O
ATOM	1044	N	HIS	112	49.194	68.975	22.780	1.00	0.00	N
ATOM	1045	HN	HIS	112	49.208	68.195	22.122	1.00	0.00	H
ATOM	1046	CA	HIS	112	50.014	68.904	23.960	1.00	0.00	C
ATOM	1047	ND1	HIS	112	50.971	66.804	26.281	1.00	0.00	N
ATOM	1048	HD1	HIS	112	49.971	66.619	26.363	1.00	0.00	H
ATOM	1049	CG	HIS	112	51.622	67.329	25.187	1.00	0.00	C
ATOM	1050	CB	HIS	112	50.939	67.677	23.900	1.00	0.00	C
ATOM	1051	NE2	HIS	112	53.124	66.926	26.821	1.00	0.00	N
ATOM	1052	HE2	HIS	112	54.000	66.859	27.339	1.00	0.00	H
ATOM	1053	CD2	HIS	112	52.936	67.399	25.535	1.00	0.00	C
ATOM	1054	CE1	HIS	112	51.916	66.581	27.229	1.00	0.00	C
ATOM	1055	C	HIS	112	50.854	70.141	23.988	1.00	0.00	C
ATOM	1056	O	HIS	112	50.957	70.820	25.011	1.00	0.00	O
ATOM	1057	N	LYS	113	51.426	70.497	22.829	1.00	0.00	N
ATOM	1058	HN	LYS	113	51.289	69.921	21.999	1.00	0.00	H
ATOM	1059	CA	LYS	113	52.227	71.680	22.749	1.00	0.00	C
ATOM	1060	CB	LYS	113	52.819	71.867	21.346	1.00	0.00	C
ATOM	1061	CG	LYS	113	53.753	70.720	20.966	1.00	0.00	C
ATOM	1062	CD	LYS	113	54.036	70.609	19.470	1.00	0.00	C
ATOM	1063	CE	LYS	113	54.913	69.407	19.118	1.00	0.00	C
ATOM	1064	NZ	LYS	113	54.999	69.249	17.650	1.00	0.00	N
ATOM	1065	HZ1	LYS	113	55.584	68.447	17.415	1.00	0.00	H
ATOM	1066	HZ2	LYS	113	55.321	70.102	17.193	1.00	0.00	H
ATOM	1067	HZ3	LYS	113	54.077	69.187	17.219	1.00	0.00	H
ATOM	1068	C	LYS	113	51.363	72.868	23.050	1.00	0.00	C
ATOM	1069	O	LYS	113	51.733	73.746	23.832	1.00	0.00	O
ATOM	1070	N	ILE	114	50.151	72.903	22.468	1.00	0.00	N
ATOM	1071	HN	ILE	114	49.832	72.117	21.902	1.00	0.00	H
ATOM	1072	CA	ILE	114	49.308	74.050	22.646	1.00	0.00	C
ATOM	1073	CB	ILE	114	47.954	73.859	22.012	1.00	0.00	C
ATOM	1074	CG1	ILE	114	48.057	73.786	20.480	1.00	0.00	C
ATOM	1075	CG2	ILE	114	47.022	74.969	22.525	1.00	0.00	C
ATOM	1076	CD1	ILE	114	48.530	75.091	19.844	1.00	0.00	C
ATOM	1077	C	ILE	114	49.038	74.207	24.107	1.00	0.00	C
ATOM	1078	O	ILE	114	49.308	75.245	24.705	1.00	0.00	O
ATOM	1079	N	ARG	115	48.618	73.107	24.740	1.00	0.00	N
ATOM	1080	HN	ARG	115	48.653	72.223	24.233	1.00	0.00	H
ATOM	1081	CA	ARG	115	48.126	73.089	26.074	1.00	0.00	C
ATOM	1082	CB	ARG	115	47.950	71.648	26.580	1.00	0.00	C
ATOM	1083	CG	ARG	115	47.224	71.516	27.918	1.00	0.00	C
ATOM	1084	CD	ARG	115	45.703	71.574	27.781	1.00	0.00	C
ATOM	1085	NE	ARG	115	45.317	70.424	26.917	1.00	0.00	N
ATOM	1086	HE	ARG	115	46.042	69.869	26.461	1.00	0.00	H
ATOM	1087	CZ	ARG	115	44.004	70.105	26.729	1.00	0.00	C
ATOM	1088	NH1	ARG	115	43.031	70.817	27.367	1.00	0.00	N
ATOM	1089	1HH1	ARG	115	43.283	71.594	27.978	1.00	0.00	H
ATOM	1090	2HH1	ARG	115	42.049	70.578	27.226	1.00	0.00	H
ATOM	1091	NH2	ARG	115	43.667	69.065	25.912	1.00	0.00	N
ATOM	1092	1HH2	ARG	115	44.395	68.533	25.435	1.00	0.00	H
ATOM	1093	2HH2	ARG	115	42.685	68.826	25.771	1.00	0.00	H
ATOM	1094	C	ARG	115	49.105	73.745	26.999	1.00	0.00	C
ATOM	1095	O	ARG	115	48.744	74.674	27.719	1.00	0.00	O
ATOM	1096	N	LYS	116	50.380	73.318	26.970	1.00	0.00	N
ATOM	1097	HN	LYS	116	50.661	72.625	26.276	1.00	0.00	H
ATOM	1098	CA	LYS	116	51.356	73.822	27.901	1.00	0.00	C
ATOM	1099	CB	LYS	116	52.732	73.150	27.729	1.00	0.00	C
ATOM	1100	CG	LYS	116	53.327	73.339	26.331	1.00	0.00	C
ATOM	1101	CD	LYS	116	54.801	72.941	26.212	1.00	0.00	C
ATOM	1102	CE	LYS	116	55.348	73.056	24.787	1.00	0.00	C
ATOM	1103	NZ	LYS	116	56.786	72.705	24.763	1.00	0.00	N
ATOM	1104	HZ1	LYS	116	57.150	72.782	23.813	1.00	0.00	H
ATOM	1105	HZ2	LYS	116	56.961	71.784	25.165	1.00	0.00	H
ATOM	1106	HZ3	LYS	116	57.326	73.263	25.425	1.00	0.00	H
ATOM	1107	C	LYS	116	51.549	75.288	27.717	1.00	0.00	C

ATOM	1108	O	LYS	116	51.628	76.040	28.691	1.00	0.00	O
ATOM	1109	N	GLN	117	51.617	75.742	26.454	1.00	0.00	N
ATOM	1110	HN	GLN	117	51.475	75.116	25.661	1.00	0.00	H
ATOM	1111	CA	GLN	117	51.895	77.133	26.256	1.00	0.00	C
ATOM	1112	CB	GLN	117	51.934	77.544	24.774	1.00	0.00	C
ATOM	1113	CG	GLN	117	53.054	76.896	23.960	1.00	0.00	C
ATOM	1114	CD	GLN	117	52.931	77.418	22.535	1.00	0.00	C
ATOM	1115	OE1	GLN	117	52.574	76.678	21.620	1.00	0.00	O
ATOM	1116	NE2	GLN	117	53.225	78.733	22.341	1.00	0.00	N
ATOM	1117	1HE2	GLN	117	53.143	79.083	21.386	1.00	0.00	H
ATOM	1118	2HE2	GLN	117	53.521	79.347	23.100	1.00	0.00	H
ATOM	1119	C	GLN	117	50.791	77.925	26.879	1.00	0.00	C
ATOM	1120	O	GLN	117	51.037	78.881	27.613	1.00	0.00	O
ATOM	1121	N	PHE	118	49.538	77.506	26.635	1.00	0.00	N
ATOM	1122	HN	PHE	118	49.391	76.631	26.131	1.00	0.00	H
ATOM	1123	CA	PHE	118	48.404	78.268	27.071	1.00	0.00	C
ATOM	1124	CB	PHE	118	47.086	77.711	26.502	1.00	0.00	C
ATOM	1125	CG	PHE	118	45.995	78.718	26.663	1.00	0.00	C
ATOM	1126	CD1	PHE	118	46.086	79.944	26.049	1.00	0.00	C
ATOM	1127	CD2	PHE	118	44.896	78.471	27.445	1.00	0.00	C
ATOM	1128	CE1	PHE	118	45.097	80.890	26.177	1.00	0.00	C
ATOM	1129	CE2	PHE	118	43.899	79.409	27.577	1.00	0.00	C
ATOM	1130	CZ	PHE	118	43.991	80.622	26.942	1.00	0.00	C
ATOM	1131	C	PHE	118	48.365	78.301	28.570	1.00	0.00	C
ATOM	1132	O	PHE	118	48.091	79.345	29.160	1.00	0.00	O
ATOM	1133	N	PHE	119	48.677	77.167	29.230	1.00	0.00	N
ATOM	1134	HN	PHE	119	48.962	76.344	28.698	1.00	0.00	H
ATOM	1135	CA	PHE	119	48.618	77.089	30.665	1.00	0.00	C
ATOM	1136	CB	PHE	119	49.173	75.742	31.165	1.00	0.00	C
ATOM	1137	CG	PHE	119	48.064	74.750	31.229	1.00	0.00	C
ATOM	1138	CD1	PHE	119	47.064	74.714	30.285	1.00	0.00	C
ATOM	1139	CD2	PHE	119	48.065	73.801	32.224	1.00	0.00	C
ATOM	1140	CE1	PHE	119	46.059	73.779	30.376	1.00	0.00	C
ATOM	1141	CE2	PHE	119	47.069	72.862	32.319	1.00	0.00	C
ATOM	1142	CZ	PHE	119	46.056	72.855	31.394	1.00	0.00	C
ATOM	1143	C	PHE	119	49.447	78.182	31.286	1.00	0.00	C
ATOM	1144	O	PHE	119	48.917	79.011	32.025	1.00	0.00	O
ATOM	1145	N	HIS	120	50.755	78.246	30.972	1.00	0.00	N
ATOM	1146	HN	HIS	120	51.136	77.555	30.325	1.00	0.00	H
ATOM	1147	CA	HIS	120	51.641	79.251	31.512	1.00	0.00	C
ATOM	1148	ND1	HIS	120	54.681	80.231	32.658	1.00	0.00	N
ATOM	1149	HD1	HIS	120	54.645	79.542	33.409	1.00	0.00	H
ATOM	1150	CG	HIS	120	54.008	80.174	31.458	1.00	0.00	C
ATOM	1151	CB	HIS	120	53.093	79.062	31.039	1.00	0.00	C
ATOM	1152	NE2	HIS	120	55.238	82.065	31.530	1.00	0.00	N
ATOM	1153	HE2	HIS	120	55.665	82.955	31.275	1.00	0.00	H
ATOM	1154	CD2	HIS	120	54.359	81.303	30.783	1.00	0.00	C
ATOM	1155	CE1	HIS	120	55.401	81.381	32.649	1.00	0.00	C
ATOM	1156	C	HIS	120	51.196	80.583	31.028	1.00	0.00	C
ATOM	1157	O	HIS	120	51.331	81.592	31.722	1.00	0.00	O
ATOM	1158	N	ALA	121	50.676	80.623	29.792	1.00	0.00	N
ATOM	1159	HN	ALA	121	50.548	79.772	29.245	1.00	0.00	H
ATOM	1160	CA	ALA	121	50.307	81.903	29.268	1.00	0.00	C
ATOM	1161	CB	ALA	121	49.752	81.818	27.836	1.00	0.00	C
ATOM	1162	C	ALA	121	49.241	82.495	30.122	1.00	0.00	C
ATOM	1163	O	ALA	121	49.408	83.620	30.594	1.00	0.00	O
ATOM	1164	N	ILE	122	48.174	81.718	30.423	1.00	0.00	N
ATOM	1165	HN	ILE	122	48.146	80.743	30.124	1.00	0.00	H
ATOM	1166	CA	ILE	122	47.083	82.280	31.168	1.00	0.00	C
ATOM	1167	CB	ILE	122	45.980	81.315	31.490	1.00	0.00	C
ATOM	1168	CG1	ILE	122	45.262	80.852	30.216	1.00	0.00	C
ATOM	1169	CG2	ILE	122	45.038	81.995	32.498	1.00	0.00	C
ATOM	1170	CD1	ILE	122	44.244	79.746	30.485	1.00	0.00	C
ATOM	1171	C	ILE	122	47.629	82.763	32.475	1.00	0.00	C
ATOM	1172	O	ILE	122	47.372	83.892	32.875	1.00	0.00	O
ATOM	1173	N	MET	123	48.492	81.966	33.123	1.00	0.00	N
ATOM	1174	HN	MET	123	48.794	81.104	32.670	1.00	0.00	H
ATOM	1175	CA	MET	123	49.009	82.274	34.428	1.00	0.00	C
ATOM	1176	CB	MET	123	49.903	81.167	35.012	1.00	0.00	C
ATOM	1177	CG	MET	123	49.110	79.953	35.497	1.00	0.00	C
ATOM	1178	SD	MET	123	48.054	80.292	36.939	1.00	0.00	S
ATOM	1179	CE	MET	123	49.425	80.387	38.128	1.00	0.00	C
ATOM	1180	C	MET	123	49.797	83.548	34.443	1.00	0.00	C
ATOM	1181	O	MET	123	50.024	84.101	35.513	1.00	0.00	O



ATOM	1182	N	ARG	124	50.412	83.932	33.316	1.00	0.00	N
ATOM	1183	HN	ARG	124	50.373	83.310	32.508	1.00	0.00	H
ATOM	1184	CA	ARG	124	51.129	85.183	33.184	1.00	0.00	C
ATOM	1185	CB	ARG	124	52.227	85.140	32.110	1.00	0.00	C
ATOM	1186	CG	ARG	124	53.494	84.399	32.543	1.00	0.00	C
ATOM	1187	CD	ARG	124	54.561	85.321	33.144	1.00	0.00	C
ATOM	1188	NE	ARG	124	54.390	85.323	34.626	1.00	0.00	N
ATOM	1189	HE	ARG	124	53.907	84.550	35.083	1.00	0.00	H
ATOM	1190	CZ	ARG	124	54.879	86.357	35.372	1.00	0.00	C
ATOM	1191	NH1	ARG	124	55.449	87.433	34.755	1.00	0.00	N
ATOM	1192	1HH1	ARG	124	55.814	88.205	35.312	1.00	0.00	H
ATOM	1193	2HH1	ARG	124	55.505	87.464	33.737	1.00	0.00	H
ATOM	1194	NH2	ARG	124	54.804	86.316	36.734	1.00	0.00	N
ATOM	1195	1HH2	ARG	124	55.169	87.088	37.291	1.00	0.00	H
ATOM	1196	2HH2	ARG	124	54.378	85.512	37.195	1.00	0.00	H
ATOM	1197	C	ARG	124	50.275	86.376	32.860	1.00	0.00	C
ATOM	1198	O	ARG	124	50.676	87.509	33.123	1.00	0.00	O
ATOM	1199	N	GLN	125	49.094	86.160	32.254	1.00	0.00	N
ATOM	1200	HN	GLN	125	48.758	85.200	32.182	1.00	0.00	H
ATOM	1201	CA	GLN	125	48.276	87.211	31.701	1.00	0.00	C
ATOM	1202	CB	GLN	125	46.932	86.699	31.146	1.00	0.00	C
ATOM	1203	CG	GLN	125	46.112	87.789	30.450	1.00	0.00	C
ATOM	1204	CD	GLN	125	44.802	87.198	29.944	1.00	0.00	C
ATOM	1205	OE1	GLN	125	44.489	86.031	30.176	1.00	0.00	O
ATOM	1206	NE2	GLN	125	44.001	88.045	29.245	1.00	0.00	N
ATOM	1207	1HE2	GLN	125	43.124	87.649	28.906	1.00	0.00	H
ATOM	1208	2HE2	GLN	125	44.260	89.013	29.053	1.00	0.00	H
ATOM	1209	C	GLN	125	47.975	88.204	32.777	1.00	0.00	C
ATOM	1210	O	GLN	125	47.673	89.363	32.489	1.00	0.00	O
ATOM	1211	N	GLU	126	47.971	87.749	34.042	1.00	0.00	N
ATOM	1212	HN	GLU	126	48.135	86.757	34.216	1.00	0.00	H
ATOM	1213	CA	GLU	126	47.743	88.621	35.146	1.00	0.00	C
ATOM	1214	CB	GLU	126	48.874	89.626	35.420	1.00	0.00	C
ATOM	1215	CG	GLU	126	49.940	89.064	36.372	1.00	0.00	C
ATOM	1216	CD	GLU	126	50.332	87.649	35.956	1.00	0.00	C
ATOM	1217	OE1	GLU	126	49.482	86.725	36.082	1.00	0.00	O
ATOM	1218	OE2	GLU	126	51.502	87.471	35.522	1.00	0.00	O
ATOM	1219	C	GLU	126	46.407	89.274	35.068	1.00	0.00	C
ATOM	1220	O	GLU	126	45.385	88.658	34.785	1.00	0.00	O
ATOM	1221	N	ILE	127	46.410	90.585	35.277	1.00	0.00	N
ATOM	1222	HN	ILE	127	47.322	91.040	35.314	1.00	0.00	H
ATOM	1223	CA	ILE	127	45.275	91.420	35.454	1.00	0.00	C
ATOM	1224	CB	ILE	127	45.767	92.829	35.500	1.00	0.00	C
ATOM	1225	CG1	ILE	127	44.813	93.808	36.142	1.00	0.00	C
ATOM	1226	CG2	ILE	127	46.092	93.267	34.077	1.00	0.00	C
ATOM	1227	CD1	ILE	127	45.499	95.163	36.093	1.00	0.00	C
ATOM	1228	C	ILE	127	44.265	91.320	34.342	1.00	0.00	C
ATOM	1229	O	ILE	127	43.088	91.599	34.564	1.00	0.00	O
ATOM	1230	N	GLY	128	44.695	91.021	33.104	1.00	0.00	N
ATOM	1231	HN	GLY	128	45.690	90.850	32.958	1.00	0.00	H
ATOM	1232	CA	GLY	128	43.804	90.933	31.976	1.00	0.00	C
ATOM	1233	C	GLY	128	42.830	89.831	32.196	1.00	0.00	C
ATOM	1234	O	GLY	128	41.715	89.826	31.677	1.00	0.00	O
ATOM	1235	N	TRP	129	43.290	88.836	32.949	1.00	0.00	N
ATOM	1236	HN	TRP	129	44.242	88.934	33.301	1.00	0.00	H
ATOM	1237	CA	TRP	129	42.594	87.646	33.318	1.00	0.00	C
ATOM	1238	CB	TRP	129	43.584	86.733	34.060	1.00	0.00	C
ATOM	1239	CG	TRP	129	43.119	85.587	34.908	1.00	0.00	C
ATOM	1240	CD2	TRP	129	43.940	85.132	35.990	1.00	0.00	C
ATOM	1241	CD1	TRP	129	42.061	84.731	34.831	1.00	0.00	C
ATOM	1242	NE1	TRP	129	42.160	83.782	35.825	1.00	0.00	N
ATOM	1243	HE1	TRP	129	41.489	83.035	36.005	1.00	0.00	H
ATOM	1244	CE2	TRP	129	43.320	84.013	36.537	1.00	0.00	C
ATOM	1245	CE3	TRP	129	45.128	85.605	36.470	1.00	0.00	C
ATOM	1246	CZ2	TRP	129	43.883	83.343	37.586	1.00	0.00	C
ATOM	1247	CZ3	TRP	129	45.685	84.939	37.534	1.00	0.00	C
ATOM	1248	CH2	TRP	129	45.074	83.829	38.082	1.00	0.00	C
ATOM	1249	C	TRP	129	41.395	88.020	34.105	1.00	0.00	C
ATOM	1250	O	TRP	129	40.493	87.208	34.280	1.00	0.00	O
ATOM	1251	N	PHE	130	41.461	89.166	34.788	1.00	0.00	N
ATOM	1252	HN	PHE	130	42.374	89.606	34.904	1.00	0.00	H
ATOM	1253	CA	PHE	130	40.325	89.810	35.365	1.00	0.00	C
ATOM	1254	CB	PHE	130	40.746	90.643	36.585	1.00	0.00	C
ATOM	1255	CG	PHE	130	39.531	91.017	37.355	1.00	0.00	C

ATOM	1256	CD1	PHE	130	39.001	90.138	38.272	1.00	0.00	C
ATOM	1257	CD2	PHE	130	38.931	92.239	37.168	1.00	0.00	C
ATOM	1258	CE1	PHE	130	37.881	90.474	38.993	1.00	0.00	C
ATOM	1259	CE2	PHE	130	37.810	92.580	37.887	1.00	0.00	C
ATOM	1260	CZ	PHE	130	37.285	91.697	38.800	1.00	0.00	C
ATOM	1261	C	PHE	130	39.741	90.761	34.333	1.00	0.00	C
ATOM	1262	O	PHE	130	38.534	90.988	34.279	1.00	0.00	O
ATOM	1263	N	ASP	131	40.616	91.353	33.482	1.00	0.00	N
ATOM	1264	HN	ASP	131	41.582	91.026	33.495	1.00	0.00	H
ATOM	1265	CA	ASP	131	40.281	92.413	32.558	1.00	0.00	C
ATOM	1266	CB	ASP	131	41.461	92.805	31.648	1.00	0.00	C
ATOM	1267	CG	ASP	131	42.519	93.501	32.492	1.00	0.00	C
ATOM	1268	OD1	ASP	131	42.218	93.810	33.673	1.00	0.00	O
ATOM	1269	OD2	ASP	131	43.642	93.732	31.968	1.00	0.00	O
ATOM	1270	C	ASP	131	39.163	92.026	31.679	1.00	0.00	C
ATOM	1271	O	ASP	131	38.147	92.709	31.579	1.00	0.00	O
ATOM	1272	N	VAL	132	39.303	90.892	31.015	1.00	0.00	N
ATOM	1273	HN	VAL	132	40.155	90.333	31.073	1.00	0.00	H
ATOM	1274	CA	VAL	132	38.203	90.500	30.221	1.00	0.00	C
ATOM	1275	CB	VAL	132	38.508	90.417	28.754	1.00	0.00	C
ATOM	1276	CG1	VAL	132	38.845	91.830	28.252	1.00	0.00	C
ATOM	1277	CG2	VAL	132	39.646	89.406	28.540	1.00	0.00	C
ATOM	1278	C	VAL	132	37.986	89.146	30.726	1.00	0.00	C
ATOM	1279	O	VAL	132	38.437	88.814	31.822	1.00	0.00	O
ATOM	1280	N	HIS	133	37.227	88.359	29.975	1.00	0.00	N
ATOM	1281	HN	HIS	133	36.753	88.726	29.150	1.00	0.00	H
ATOM	1282	CA	HIS	133	37.089	86.995	30.344	1.00	0.00	C
ATOM	1283	ND1	HIS	133	39.669	85.685	28.669	1.00	0.00	N
ATOM	1284	HD1	HIS	133	38.961	85.077	28.257	1.00	0.00	H
ATOM	1285	CG	HIS	133	39.573	86.365	29.862	1.00	0.00	C
ATOM	1286	CB	HIS	133	38.394	86.288	30.793	1.00	0.00	C
ATOM	1287	NE2	HIS	133	41.579	86.796	28.917	1.00	0.00	N
ATOM	1288	HE2	HIS	133	42.515	87.166	28.753	1.00	0.00	H
ATOM	1289	CD2	HIS	133	40.750	87.039	29.997	1.00	0.00	C
ATOM	1290	CE1	HIS	133	40.887	85.978	28.146	1.00	0.00	C
ATOM	1291	C	HIS	133	36.141	86.837	31.490	1.00	0.00	C
ATOM	1292	O	HIS	133	36.344	87.374	32.578	1.00	0.00	O
ATOM	1293	N	ASP	134	35.083	86.036	31.269	1.00	0.00	N
ATOM	1294	HN	ASP	134	34.934	85.656	30.334	1.00	0.00	H
ATOM	1295	CA	ASP	134	34.162	85.704	32.312	1.00	0.00	C
ATOM	1296	CB	ASP	134	32.976	84.859	31.820	1.00	0.00	C
ATOM	1297	CG	ASP	134	32.093	85.771	30.978	1.00	0.00	C
ATOM	1298	OD1	ASP	134	31.734	86.870	31.478	1.00	0.00	O
ATOM	1299	OD2	ASP	134	31.763	85.382	29.827	1.00	0.00	O
ATOM	1300	C	ASP	134	34.968	84.894	33.270	1.00	0.00	C
ATOM	1301	O	ASP	134	34.619	84.731	34.438	1.00	0.00	O
ATOM	1302	N	VAL	135	36.053	84.304	32.737	1.00	0.00	N
ATOM	1303	HN	VAL	135	36.207	84.446	31.739	1.00	0.00	H
ATOM	1304	CA	VAL	135	37.017	83.495	33.428	1.00	0.00	C
ATOM	1305	CB	VAL	135	37.393	84.047	34.769	1.00	0.00	C
ATOM	1306	CG1	VAL	135	38.290	83.015	35.469	1.00	0.00	C
ATOM	1307	CG2	VAL	135	38.056	85.422	34.580	1.00	0.00	C
ATOM	1308	C	VAL	135	36.381	82.162	33.651	1.00	0.00	C
ATOM	1309	O	VAL	135	37.067	81.138	33.652	1.00	0.00	O
ATOM	1310	N	GLY	136	35.044	82.144	33.844	1.00	0.00	N
ATOM	1311	HN	GLY	136	34.540	83.024	33.957	1.00	0.00	H
ATOM	1312	CA	GLY	136	34.328	80.912	33.892	1.00	0.00	C
ATOM	1313	C	GLY	136	34.289	80.460	32.478	1.00	0.00	C
ATOM	1314	O	GLY	136	34.587	79.314	32.152	1.00	0.00	O
ATOM	1315	N	GLU	137	33.955	81.418	31.593	1.00	0.00	N
ATOM	1316	HN	GLU	137	33.767	82.362	31.929	1.00	0.00	H
ATOM	1317	CA	GLU	137	33.857	81.145	30.198	1.00	0.00	C
ATOM	1318	CB	GLU	137	33.320	82.339	29.375	1.00	0.00	C
ATOM	1319	CG	GLU	137	34.205	83.588	29.361	1.00	0.00	C
ATOM	1320	CD	GLU	137	35.127	83.510	28.152	1.00	0.00	C
ATOM	1321	OE1	GLU	137	36.239	82.941	28.295	1.00	0.00	O
ATOM	1322	OE2	GLU	137	34.732	84.017	27.068	1.00	0.00	O
ATOM	1323	C	GLU	137	35.235	80.776	29.734	1.00	0.00	C
ATOM	1324	O	GLU	137	35.371	80.001	28.792	1.00	0.00	O
ATOM	1325	N	LEU	138	36.283	81.352	30.375	1.00	0.00	N
ATOM	1326	HN	LEU	138	36.072	81.960	31.167	1.00	0.00	H
ATOM	1327	CA	LEU	138	37.681	81.173	30.025	1.00	0.00	C
ATOM	1328	CB	LEU	138	38.638	82.029	30.864	1.00	0.00	C
ATOM	1329	CG	LEU	138	40.114	81.682	30.580	1.00	0.00	C

ATOM	1330	CD1	LEU	138	40.587	82.215	29.218	1.00	0.00	C
ATOM	1331	CD2	LEU	138	41.017	82.066	31.757	1.00	0.00	C
ATOM	1332	C	LEU	138	38.189	79.788	30.210	1.00	0.00	C
ATOM	1333	O	LEU	138	38.662	79.196	29.253	1.00	0.00	O
ATOM	1334	N	ASN	139	38.104	79.214	31.422	1.00	0.00	N
ATOM	1335	HN	ASN	139	37.664	79.712	32.196	1.00	0.00	H
ATOM	1336	CA	ASN	139	38.637	77.895	31.621	1.00	0.00	C
ATOM	1337	CB	ASN	139	38.468	77.390	33.066	1.00	0.00	C
ATOM	1338	CG	ASN	139	36.999	77.482	33.453	1.00	0.00	C
ATOM	1339	OD1	ASN	139	36.531	78.531	33.892	1.00	0.00	O
ATOM	1340	ND2	ASN	139	36.247	76.363	33.281	1.00	0.00	N
ATOM	1341	1HD2	ASN	139	36.635	75.493	32.917	1.00	0.00	H
ATOM	1342	2HD2	ASN	139	35.262	76.425	33.540	1.00	0.00	H
ATOM	1343	C	ASN	139	37.835	77.027	30.736	1.00	0.00	C
ATOM	1344	O	ASN	139	38.367	76.110	30.114	1.00	0.00	O
ATOM	1345	N	THR	140	36.529	77.347	30.635	1.00	0.00	N
ATOM	1346	HN	THR	140	36.163	78.145	31.155	1.00	0.00	H
ATOM	1347	CA	THR	140	35.653	76.582	29.809	1.00	0.00	C
ATOM	1348	CB	THR	140	34.275	77.168	29.695	1.00	0.00	C
ATOM	1349	OG1	THR	140	33.650	77.226	30.969	1.00	0.00	O
ATOM	1350	HG1	THR	140	34.161	77.763	31.564	1.00	0.00	H
ATOM	1351	CG2	THR	140	33.448	76.299	28.732	1.00	0.00	C
ATOM	1352	C	THR	140	36.271	76.633	28.457	1.00	0.00	C
ATOM	1353	O	THR	140	36.355	75.617	27.777	1.00	0.00	O
ATOM	1354	N	ARG	141	36.764	77.828	28.078	1.00	0.00	N
ATOM	1355	HN	ARG	141	36.653	78.607	28.727	1.00	0.00	H
ATOM	1356	CA	ARG	141	37.434	78.096	26.835	1.00	0.00	C
ATOM	1357	CB	ARG	141	37.781	79.590	26.693	1.00	0.00	C
ATOM	1358	CG	ARG	141	38.693	79.914	25.514	1.00	0.00	C
ATOM	1359	CD	ARG	141	39.258	81.337	25.538	1.00	0.00	C
ATOM	1360	NE	ARG	141	38.109	82.289	25.578	1.00	0.00	N
ATOM	1361	HE	ARG	141	37.820	82.698	26.467	1.00	0.00	H
ATOM	1362	CZ	ARG	141	37.442	82.616	24.433	1.00	0.00	C
ATOM	1363	NH1	ARG	141	37.755	81.989	23.262	1.00	0.00	N
ATOM	1364	1HH1	ARG	141	37.257	82.233	22.406	1.00	0.00	H
ATOM	1365	2HH1	ARG	141	38.492	81.284	23.243	1.00	0.00	H
ATOM	1366	NH2	ARG	141	36.456	83.560	24.459	1.00	0.00	N
ATOM	1367	1HH2	ARG	141	35.958	83.804	23.603	1.00	0.00	H
ATOM	1368	2HH2	ARG	141	36.222	84.029	25.334	1.00	0.00	H
ATOM	1369	C	ARG	141	38.731	77.334	26.751	1.00	0.00	C
ATOM	1370	O	ARG	141	39.107	76.879	25.678	1.00	0.00	O
ATOM	1371	N	LEU	142	39.488	77.185	27.853	1.00	0.00	N
ATOM	1372	HN	LEU	142	39.170	77.554	28.749	1.00	0.00	H
ATOM	1373	CA	LEU	142	40.747	76.502	27.757	1.00	0.00	C
ATOM	1374	CB	LEU	142	41.437	76.396	29.136	1.00	0.00	C
ATOM	1375	CG	LEU	142	42.706	75.514	29.196	1.00	0.00	C
ATOM	1376	CD1	LEU	142	42.377	74.010	29.219	1.00	0.00	C
ATOM	1377	CD2	LEU	142	43.680	75.866	28.065	1.00	0.00	C
ATOM	1378	C	LEU	142	40.484	75.121	27.264	1.00	0.00	C
ATOM	1379	O	LEU	142	41.025	74.724	26.238	1.00	0.00	O
ATOM	1380	N	THR	143	39.628	74.354	27.963	1.00	0.00	N
ATOM	1381	HN	THR	143	39.161	74.731	28.787	1.00	0.00	H
ATOM	1382	CA	THR	143	39.373	73.003	27.547	1.00	0.00	C
ATOM	1383	CB	THR	143	38.646	72.202	28.584	1.00	0.00	C
ATOM	1384	OG1	THR	143	37.380	72.782	28.861	1.00	0.00	O
ATOM	1385	HG1	THR	143	36.919	72.274	29.518	1.00	0.00	H
ATOM	1386	CG2	THR	143	39.504	72.159	29.857	1.00	0.00	C
ATOM	1387	C	THR	143	38.549	72.974	26.311	1.00	0.00	C
ATOM	1388	O	THR	143	38.876	72.269	25.362	1.00	0.00	O
ATOM	1389	N	ASP	144	37.467	73.768	26.284	1.00	0.00	N
ATOM	1390	HN	ASP	144	37.295	74.414	27.054	1.00	0.00	H
ATOM	1391	CA	ASP	144	36.553	73.717	25.186	1.00	0.00	C
ATOM	1392	CB	ASP	144	35.373	74.688	25.372	1.00	0.00	C
ATOM	1393	CG	ASP	144	34.353	74.443	24.271	1.00	0.00	C
ATOM	1394	OD1	ASP	144	34.636	73.615	23.365	1.00	0.00	O
ATOM	1395	OD2	ASP	144	33.270	75.084	24.326	1.00	0.00	O
ATOM	1396	C	ASP	144	37.281	74.100	23.938	1.00	0.00	C
ATOM	1397	O	ASP	144	37.174	73.398	22.936	1.00	0.00	O
ATOM	1398	N	ASP	145	38.042	75.215	23.965	1.00	0.00	N
ATOM	1399	HN	ASP	145	38.124	75.740	24.835	1.00	0.00	H
ATOM	1400	CA	ASP	145	38.737	75.678	22.800	1.00	0.00	C
ATOM	1401	CB	ASP	145	39.334	77.087	22.956	1.00	0.00	C
ATOM	1402	CG	ASP	145	38.170	78.063	23.047	1.00	0.00	C
ATOM	1403	OD1	ASP	145	37.048	77.610	23.402	1.00	0.00	O

ATOM	1404	OD2	ASP	145	38.386	79.273	22.771	1.00	0.00	O
ATOM	1405	C	ASP	145	39.837	74.740	22.435	1.00	0.00	C
ATOM	1406	O	ASP	145	39.894	74.311	21.287	1.00	0.00	O
ATOM	1407	N	VAL	146	40.693	74.339	23.406	1.00	0.00	N
ATOM	1408	HN	VAL	146	40.546	74.636	24.371	1.00	0.00	H
ATOM	1409	CA	VAL	146	41.810	73.494	23.074	1.00	0.00	C
ATOM	1410	CB	VAL	146	42.659	73.058	24.233	1.00	0.00	C
ATOM	1411	CG1	VAL	146	43.323	74.298	24.834	1.00	0.00	C
ATOM	1412	CG2	VAL	146	41.807	72.254	25.218	1.00	0.00	C
ATOM	1413	C	VAL	146	41.251	72.264	22.426	1.00	0.00	C
ATOM	1414	O	VAL	146	41.752	71.832	21.392	1.00	0.00	O
ATOM	1415	N	SER	147	40.148	71.726	22.984	1.00	0.00	N
ATOM	1416	HN	SER	147	39.757	72.180	23.810	1.00	0.00	H
ATOM	1417	CA	SER	147	39.489	70.548	22.482	1.00	0.00	C
ATOM	1418	CB	SER	147	38.295	70.123	23.356	1.00	0.00	C
ATOM	1419	OG	SER	147	38.744	69.751	24.650	1.00	0.00	O
ATOM	1420	HG	SER	147	38.007	69.489	25.189	1.00	0.00	H
ATOM	1421	C	SER	147	38.948	70.810	21.100	1.00	0.00	C
ATOM	1422	O	SER	147	39.134	70.002	20.196	1.00	0.00	O
ATOM	1423	N	LYS	148	38.295	71.968	20.879	1.00	0.00	N
ATOM	1424	HN	LYS	148	38.239	72.655	21.631	1.00	0.00	H
ATOM	1425	CA	LYS	148	37.676	72.266	19.618	1.00	0.00	C
ATOM	1426	CB	LYS	148	36.948	73.621	19.598	1.00	0.00	C
ATOM	1427	CG	LYS	148	35.642	73.588	20.395	1.00	0.00	C
ATOM	1428	CD	LYS	148	34.658	72.533	19.878	1.00	0.00	C
ATOM	1429	CE	LYS	148	33.339	72.468	20.650	1.00	0.00	C
ATOM	1430	NZ	LYS	148	32.463	71.426	20.068	1.00	0.00	N
ATOM	1431	HZ1	LYS	148	31.583	71.383	20.583	1.00	0.00	H
ATOM	1432	HZ2	LYS	148	32.926	70.518	20.024	1.00	0.00	H
ATOM	1433	HZ3	LYS	148	32.315	71.566	19.069	1.00	0.00	H
ATOM	1434	C	LYS	148	38.736	72.272	18.569	1.00	0.00	C
ATOM	1435	O	LYS	148	38.467	71.981	17.405	1.00	0.00	O
ATOM	1436	N	ILE	149	39.967	72.648	18.952	1.00	0.00	N
ATOM	1437	HN	ILE	149	40.124	72.938	19.917	1.00	0.00	H
ATOM	1438	CA	ILE	149	41.060	72.650	18.035	1.00	0.00	C
ATOM	1439	CB	ILE	149	42.329	73.072	18.699	1.00	0.00	C
ATOM	1440	CG1	ILE	149	42.027	74.297	19.566	1.00	0.00	C
ATOM	1441	CG2	ILE	149	43.405	73.289	17.622	1.00	0.00	C
ATOM	1442	CD1	ILE	149	41.069	75.277	18.897	1.00	0.00	C
ATOM	1443	C	ILE	149	41.242	71.219	17.648	1.00	0.00	C
ATOM	1444	O	ILE	149	41.325	70.882	16.468	1.00	0.00	O
ATOM	1445	N	ASN	150	41.233	70.332	18.665	1.00	0.00	N
ATOM	1446	HN	ASN	150	41.046	70.675	19.607	1.00	0.00	H
ATOM	1447	CA	ASN	150	41.474	68.930	18.483	1.00	0.00	C
ATOM	1448	CB	ASN	150	41.306	68.130	19.785	1.00	0.00	C
ATOM	1449	CG	ASN	150	41.951	66.765	19.594	1.00	0.00	C
ATOM	1450	OD1	ASN	150	41.511	65.960	18.774	1.00	0.00	O
ATOM	1451	ND2	ASN	150	43.036	66.498	20.370	1.00	0.00	N
ATOM	1452	1HD2	ASN	150	43.401	67.165	21.050	1.00	0.00	H
ATOM	1453	2HD2	ASN	150	43.468	65.583	20.242	1.00	0.00	H
ATOM	1454	C	ASN	150	40.471	68.397	17.509	1.00	0.00	C
ATOM	1455	O	ASN	150	40.837	67.788	16.506	1.00	0.00	O
ATOM	1456	N	GLU	151	39.175	68.675	17.735	1.00	0.00	N
ATOM	1457	HN	GLU	151	38.910	69.265	18.524	1.00	0.00	H
ATOM	1458	CA	GLU	151	38.166	68.143	16.868	1.00	0.00	C
ATOM	1459	CB	GLU	151	36.741	68.565	17.265	1.00	0.00	C
ATOM	1460	CG	GLU	151	36.228	67.835	18.508	1.00	0.00	C
ATOM	1461	CD	GLU	151	34.823	68.337	18.805	1.00	0.00	C
ATOM	1462	OE1	GLU	151	34.441	69.394	18.236	1.00	0.00	O
ATOM	1463	OE2	GLU	151	34.113	67.671	19.605	1.00	0.00	O
ATOM	1464	C	GLU	151	38.452	68.660	15.493	1.00	0.00	C
ATOM	1465	O	GLU	151	38.306	67.934	14.515	1.00	0.00	O
ATOM	1466	N	GLY	152	38.935	69.912	15.383	1.00	0.00	N
ATOM	1467	HN	GLY	152	39.138	70.452	16.224	1.00	0.00	H
ATOM	1468	CA	GLY	152	39.165	70.491	14.095	1.00	0.00	C
ATOM	1469	C	GLY	152	40.111	69.624	13.318	1.00	0.00	C
ATOM	1470	O	GLY	152	39.911	69.421	12.122	1.00	0.00	O
ATOM	1471	N	ILE	153	41.183	69.116	13.961	1.00	0.00	N
ATOM	1472	HN	ILE	153	41.292	69.268	14.964	1.00	0.00	H
ATOM	1473	CA	ILE	153	42.175	68.360	13.239	1.00	0.00	C
ATOM	1474	CB	ILE	153	43.403	68.112	14.059	1.00	0.00	C
ATOM	1475	CG1	ILE	153	43.944	69.442	14.603	1.00	0.00	C
ATOM	1476	CG2	ILE	153	44.408	67.347	13.178	1.00	0.00	C
ATOM	1477	CD1	ILE	153	44.216	70.476	13.515	1.00	0.00	C

ATOM	1478	C	ILE	153	41.716	66.992	12.762	1.00	0.00	C
ATOM	1479	O	ILE	153	41.778	66.704	11.569	1.00	0.00	O
ATOM	1480	N	GLY	154	41.237	66.111	13.673	1.00	0.00	N
ATOM	1481	HN	GLY	154	41.131	66.421	14.639	1.00	0.00	H
ATOM	1482	CA	GLY	154	40.868	64.750	13.341	1.00	0.00	C
ATOM	1483	C	GLY	154	39.666	64.691	12.439	1.00	0.00	C
ATOM	1484	O	GLY	154	39.615	63.856	11.540	1.00	0.00	O
ATOM	1485	N	ASP	155	38.629	65.519	12.683	1.00	0.00	N
ATOM	1486	HN	ASP	155	38.671	66.184	13.455	1.00	0.00	H
ATOM	1487	CA	ASP	155	37.464	65.454	11.844	1.00	0.00	C
ATOM	1488	CB	ASP	155	36.164	66.051	12.434	1.00	0.00	C
ATOM	1489	CG	ASP	155	36.279	67.528	12.740	1.00	0.00	C
ATOM	1490	OD1	ASP	155	37.206	68.192	12.208	1.00	0.00	O
ATOM	1491	OD2	ASP	155	35.447	68.011	13.553	1.00	0.00	O
ATOM	1492	C	ASP	155	37.781	66.003	10.498	1.00	0.00	C
ATOM	1493	O	ASP	155	37.255	65.512	9.505	1.00	0.00	O
ATOM	1494	N	LYS	156	38.686	66.994	10.416	1.00	0.00	N
ATOM	1495	HN	LYS	156	39.116	67.353	11.269	1.00	0.00	H
ATOM	1496	CA	LYS	156	39.056	67.553	9.154	1.00	0.00	C
ATOM	1497	CB	LYS	156	40.131	68.649	9.292	1.00	0.00	C
ATOM	1498	CG	LYS	156	40.997	68.916	8.058	1.00	0.00	C
ATOM	1499	CD	LYS	156	42.193	67.963	7.967	1.00	0.00	C
ATOM	1500	CE	LYS	156	42.095	66.851	6.927	1.00	0.00	C
ATOM	1501	NZ	LYS	156	43.047	65.774	7.272	1.00	0.00	N
ATOM	1502	HZ1	LYS	156	42.981	65.031	6.577	1.00	0.00	H
ATOM	1503	HZ2	LYS	156	42.912	65.428	8.222	1.00	0.00	H
ATOM	1504	HZ3	LYS	156	44.000	66.120	7.379	1.00	0.00	H
ATOM	1505	C	LYS	156	39.538	66.426	8.312	1.00	0.00	C
ATOM	1506	O	LYS	156	39.340	66.418	7.097	1.00	0.00	O
ATOM	1507	N	ILE	157	40.169	65.420	8.944	1.00	0.00	N
ATOM	1508	HN	ILE	157	40.284	65.422	9.957	1.00	0.00	H
ATOM	1509	CA	ILE	157	40.672	64.349	8.144	1.00	0.00	C
ATOM	1510	CB	ILE	157	41.443	63.305	8.910	1.00	0.00	C
ATOM	1511	CG1	ILE	157	40.601	62.216	9.603	1.00	0.00	C
ATOM	1512	CG2	ILE	157	42.185	64.142	9.955	1.00	0.00	C
ATOM	1513	CD1	ILE	157	40.132	61.087	8.682	1.00	0.00	C
ATOM	1514	C	ILE	157	39.470	63.712	7.535	1.00	0.00	C
ATOM	1515	O	ILE	157	39.412	63.494	6.329	1.00	0.00	O
ATOM	1516	N	GLY	158	38.425	63.499	8.355	1.00	0.00	N
ATOM	1517	HN	GLY	158	38.473	63.841	9.315	1.00	0.00	H
ATOM	1518	CA	GLY	158	37.247	62.808	7.925	1.00	0.00	C
ATOM	1519	C	GLY	158	36.705	63.477	6.704	1.00	0.00	C
ATOM	1520	O	GLY	158	36.368	62.799	5.734	1.00	0.00	O
ATOM	1521	N	MET	159	36.644	64.821	6.696	1.00	0.00	N
ATOM	1522	HN	MET	159	36.997	65.355	7.490	1.00	0.00	H
ATOM	1523	CA	MET	159	36.081	65.499	5.568	1.00	0.00	C
ATOM	1524	CB	MET	159	36.049	67.027	5.734	1.00	0.00	C
ATOM	1525	CG	MET	159	35.216	67.754	4.673	1.00	0.00	C
ATOM	1526	SD	MET	159	35.929	67.796	3.000	1.00	0.00	S
ATOM	1527	CE	MET	159	37.220	69.007	3.406	1.00	0.00	C
ATOM	1528	C	MET	159	36.886	65.215	4.345	1.00	0.00	C
ATOM	1529	O	MET	159	36.318	64.822	3.333	1.00	0.00	O
ATOM	1530	N	PHE	160	38.228	65.311	4.437	1.00	0.00	N
ATOM	1531	HN	PHE	160	38.639	65.461	5.358	1.00	0.00	H
ATOM	1532	CA	PHE	160	39.112	65.213	3.302	1.00	0.00	C
ATOM	1533	CB	PHE	160	40.585	65.119	3.739	1.00	0.00	C
ATOM	1534	CG	PHE	160	41.456	65.359	2.557	1.00	0.00	C
ATOM	1535	CD1	PHE	160	41.668	64.373	1.622	1.00	0.00	C
ATOM	1536	CD2	PHE	160	42.077	66.576	2.398	1.00	0.00	C
ATOM	1537	CE1	PHE	160	42.478	64.605	0.536	1.00	0.00	C
ATOM	1538	CE2	PHE	160	42.889	66.812	1.314	1.00	0.00	C
ATOM	1539	CZ	PHE	160	43.089	65.825	0.379	1.00	0.00	C
ATOM	1540	C	PHE	160	38.756	63.942	2.618	1.00	0.00	C
ATOM	1541	O	PHE	160	38.485	63.920	1.418	1.00	0.00	O
ATOM	1542	N	PHE	161	38.617	62.875	3.417	1.00	0.00	N
ATOM	1543	HN	PHE	161	38.795	62.968	4.417	1.00	0.00	H
ATOM	1544	CA	PHE	161	38.224	61.612	2.886	1.00	0.00	C
ATOM	1545	CB	PHE	161	38.059	60.588	4.028	1.00	0.00	C
ATOM	1546	CG	PHE	161	37.045	59.553	3.688	1.00	0.00	C
ATOM	1547	CD1	PHE	161	37.181	58.712	2.612	1.00	0.00	C
ATOM	1548	CD2	PHE	161	35.951	59.406	4.512	1.00	0.00	C
ATOM	1549	CE1	PHE	161	36.214	57.768	2.356	1.00	0.00	C
ATOM	1550	CE2	PHE	161	34.986	58.463	4.259	1.00	0.00	C
ATOM	1551	CZ	PHE	161	35.115	57.639	3.170	1.00	0.00	C

ATOM	1552	C	PHE	161	36.937	61.754	2.116	1.00	0.00	C
ATOM	1553	O	PHE	161	36.890	61.455	0.926	1.00	0.00	O
ATOM	1554	N	GLN	162	35.869	62.290	2.725	1.00	0.00	N
ATOM	1555	HN	GLN	162	35.954	62.657	3.673	1.00	0.00	H
ATOM	1556	CA	GLN	162	34.601	62.349	2.042	1.00	0.00	C
ATOM	1557	CB	GLN	162	33.466	62.876	2.935	1.00	0.00	C
ATOM	1558	CG	GLN	162	32.085	62.768	2.286	1.00	0.00	C
ATOM	1559	CD	GLN	162	31.682	61.299	2.290	1.00	0.00	C
ATOM	1560	OE1	GLN	162	31.842	60.595	1.295	1.00	0.00	O
ATOM	1561	NE2	GLN	162	31.150	60.819	3.447	1.00	0.00	N
ATOM	1562	1HE2	GLN	162	30.880	59.835	3.450	1.00	0.00	H
ATOM	1563	2HE2	GLN	162	31.017	61.403	4.273	1.00	0.00	H
ATOM	1564	C	GLN	162	34.682	63.245	0.844	1.00	0.00	C
ATOM	1565	O	GLN	162	34.076	62.958	-0.188	1.00	0.00	O
ATOM	1566	N	SER	163	35.444	64.351	0.937	1.00	0.00	N
ATOM	1567	HN	SER	163	35.994	64.513	1.781	1.00	0.00	H
ATOM	1568	CA	SER	163	35.494	65.303	-0.131	1.00	0.00	C
ATOM	1569	CB	SER	163	36.480	66.458	0.113	1.00	0.00	C
ATOM	1570	OG	SER	163	37.819	65.991	0.038	1.00	0.00	O
ATOM	1571	HG	SER	163	38.428	66.704	0.189	1.00	0.00	H
ATOM	1572	C	SER	163	35.941	64.579	-1.360	1.00	0.00	C
ATOM	1573	O	SER	163	35.503	64.893	-2.463	1.00	0.00	O
ATOM	1574	N	MET	164	36.871	63.623	-1.195	1.00	0.00	N
ATOM	1575	HN	MET	164	37.230	63.458	-0.255	1.00	0.00	H
ATOM	1576	CA	MET	164	37.389	62.819	-2.270	1.00	0.00	C
ATOM	1577	CB	MET	164	38.703	62.124	-1.892	1.00	0.00	C
ATOM	1578	CG	MET	164	39.823	63.135	-1.656	1.00	0.00	C
ATOM	1579	SD	MET	164	40.170	64.185	-3.099	1.00	0.00	S
ATOM	1580	CE	MET	164	41.552	65.070	-2.326	1.00	0.00	C
ATOM	1581	C	MET	164	36.431	61.774	-2.758	1.00	0.00	C
ATOM	1582	O	MET	164	36.406	61.461	-3.946	1.00	0.00	O
ATOM	1583	N	ALA	165	35.647	61.155	-1.857	1.00	0.00	N
ATOM	1584	HN	ALA	165	35.684	61.415	-0.871	1.00	0.00	H
ATOM	1585	CA	ALA	165	34.758	60.123	-2.308	1.00	0.00	C
ATOM	1586	CB	ALA	165	33.938	59.497	-1.166	1.00	0.00	C
ATOM	1587	C	ALA	165	33.810	60.780	-3.243	1.00	0.00	C
ATOM	1588	O	ALA	165	33.448	60.216	-4.271	1.00	0.00	O
ATOM	1589	N	THR	166	33.375	61.996	-2.875	1.00	0.00	N
ATOM	1590	HN	THR	166	33.713	62.376	-1.991	1.00	0.00	H
ATOM	1591	CA	THR	166	32.467	62.794	-3.643	1.00	0.00	C
ATOM	1592	CB	THR	166	32.274	64.135	-2.998	1.00	0.00	C
ATOM	1593	OG1	THR	166	31.833	64.024	-1.656	1.00	0.00	O
ATOM	1594	HG1	THR	166	31.711	64.873	-1.248	1.00	0.00	H
ATOM	1595	CG2	THR	166	31.274	64.928	-3.836	1.00	0.00	C
ATOM	1596	C	THR	166	33.106	63.170	-4.937	1.00	0.00	C
ATOM	1597	O	THR	166	32.594	62.898	-6.021	1.00	0.00	O
ATOM	1598	N	PHE	167	34.290	63.796	-4.830	1.00	0.00	N
ATOM	1599	HN	PHE	167	34.753	63.856	-3.923	1.00	0.00	H
ATOM	1600	CA	PHE	167	34.902	64.377	-5.982	1.00	0.00	C
ATOM	1601	CB	PHE	167	36.230	65.069	-5.629	1.00	0.00	C
ATOM	1602	CG	PHE	167	36.587	65.972	-6.756	1.00	0.00	C
ATOM	1603	CD1	PHE	167	37.299	65.520	-7.842	1.00	0.00	C
ATOM	1604	CD2	PHE	167	36.197	67.291	-6.715	1.00	0.00	C
ATOM	1605	CE1	PHE	167	37.616	66.375	-8.872	1.00	0.00	C
ATOM	1606	CE2	PHE	167	36.512	68.149	-7.741	1.00	0.00	C
ATOM	1607	CZ	PHE	167	37.224	67.691	-8.824	1.00	0.00	C
ATOM	1608	C	PHE	167	35.179	63.305	-6.982	1.00	0.00	C
ATOM	1609	O	PHE	167	34.691	63.351	-8.108	1.00	0.00	O
ATOM	1610	N	PHE	168	35.929	62.274	-6.563	1.00	0.00	N
ATOM	1611	HN	PHE	168	36.238	62.256	-5.591	1.00	0.00	H
ATOM	1612	CA	PHE	168	36.312	61.199	-7.426	1.00	0.00	C
ATOM	1613	CB	PHE	168	37.354	60.251	-6.817	1.00	0.00	C
ATOM	1614	CG	PHE	168	38.641	60.992	-6.869	1.00	0.00	C
ATOM	1615	CD1	PHE	168	39.351	61.031	-8.045	1.00	0.00	C
ATOM	1616	CD2	PHE	168	39.131	61.646	-5.761	1.00	0.00	C
ATOM	1617	CE1	PHE	168	40.541	61.712	-8.118	1.00	0.00	C
ATOM	1618	CE2	PHE	168	40.321	62.329	-5.830	1.00	0.00	C
ATOM	1619	CZ	PHE	168	41.027	62.362	-7.009	1.00	0.00	C
ATOM	1620	C	PHE	168	35.129	60.388	-7.819	1.00	0.00	C
ATOM	1621	O	PHE	168	35.112	59.880	-8.930	1.00	0.00	O
ATOM	1622	N	THR	169	34.132	60.169	-6.940	1.00	0.00	N
ATOM	1623	HN	THR	169	34.143	60.559	-5.997	1.00	0.00	H
ATOM	1624	CA	THR	169	33.051	59.349	-7.419	1.00	0.00	C
ATOM	1625	CB	THR	169	31.944	59.036	-6.420	1.00	0.00	C

ATOM	1626	OG1	THR	169	30.972	58.220	-7.057	1.00	0.00	O
ATOM	1627	HG1	THR	169	31.404	57.448	-7.403	1.00	0.00	H
ATOM	1628	CG2	THR	169	31.242	60.291	-5.857	1.00	0.00	C
ATOM	1629	C	THR	169	32.403	60.008	-8.593	1.00	0.00	C
ATOM	1630	O	THR	169	32.463	59.496	-9.709	1.00	0.00	O
ATOM	1631	N	GLY	170	31.912	61.240	-8.393	1.00	0.00	N
ATOM	1632	HN	GLY	170	32.088	61.695	-7.497	1.00	0.00	H
ATOM	1633	CA	GLY	170	31.157	61.940	-9.374	1.00	0.00	C
ATOM	1634	C	GLY	170	32.018	62.057	-10.574	1.00	0.00	C
ATOM	1635	O	GLY	170	31.516	62.219	-11.680	1.00	0.00	O
ATOM	1636	N	PHE	171	33.340	62.153	-10.370	1.00	0.00	N
ATOM	1637	HN	PHE	171	33.719	62.186	-9.424	1.00	0.00	H
ATOM	1638	CA	PHE	171	34.208	62.208	-11.504	1.00	0.00	C
ATOM	1639	CB	PHE	171	35.605	62.730	-11.127	1.00	0.00	C
ATOM	1640	CG	PHE	171	36.444	62.763	-12.357	1.00	0.00	C
ATOM	1641	CD1	PHE	171	36.261	63.752	-13.296	1.00	0.00	C
ATOM	1642	CD2	PHE	171	37.428	61.824	-12.565	1.00	0.00	C
ATOM	1643	CE1	PHE	171	37.034	63.794	-14.433	1.00	0.00	C
ATOM	1644	CE2	PHE	171	38.204	61.862	-13.700	1.00	0.00	C
ATOM	1645	CZ	PHE	171	38.008	62.848	-14.638	1.00	0.00	C
ATOM	1646	C	PHE	171	34.385	60.885	-12.182	1.00	0.00	C
ATOM	1647	O	PHE	171	33.834	60.653	-13.248	1.00	0.00	O
ATOM	1648	N	ILE	172	35.004	59.917	-11.487	1.00	0.00	N
ATOM	1649	HN	ILE	172	35.156	60.063	-10.489	1.00	0.00	H
ATOM	1650	CA	ILE	172	35.463	58.692	-12.068	1.00	0.00	C
ATOM	1651	CB	ILE	172	36.130	57.810	-11.031	1.00	0.00	C
ATOM	1652	CG1	ILE	172	37.011	56.755	-11.708	1.00	0.00	C
ATOM	1653	CG2	ILE	172	35.095	57.254	-10.039	1.00	0.00	C
ATOM	1654	CD1	ILE	172	38.281	57.367	-12.296	1.00	0.00	C
ATOM	1655	C	ILE	172	34.296	58.022	-12.725	1.00	0.00	C
ATOM	1656	O	ILE	172	34.352	57.701	-13.910	1.00	0.00	O
ATOM	1657	N	VAL	173	33.180	57.836	-12.006	1.00	0.00	N
ATOM	1658	HN	VAL	173	33.157	58.098	-11.021	1.00	0.00	H
ATOM	1659	CA	VAL	173	32.021	57.269	-12.624	1.00	0.00	C
ATOM	1660	CB	VAL	173	31.003	56.826	-11.615	1.00	0.00	C
ATOM	1661	CG1	VAL	173	29.757	56.316	-12.359	1.00	0.00	C
ATOM	1662	CG2	VAL	173	31.655	55.785	-10.688	1.00	0.00	C
ATOM	1663	C	VAL	173	31.364	58.293	-13.490	1.00	0.00	C
ATOM	1664	O	VAL	173	31.013	58.036	-14.638	1.00	0.00	O
ATOM	1665	N	GLY	174	31.260	59.523	-12.961	1.00	0.00	N
ATOM	1666	HN	GLY	174	31.758	59.722	-12.093	1.00	0.00	H
ATOM	1667	CA	GLY	174	30.485	60.568	-13.556	1.00	0.00	C
ATOM	1668	C	GLY	174	30.933	60.875	-14.943	1.00	0.00	C
ATOM	1669	O	GLY	174	30.158	61.443	-15.697	1.00	0.00	O
ATOM	1670	N	PHE	175	32.224	60.785	-15.267	1.00	0.00	N
ATOM	1671	HN	PHE	175	32.917	60.654	-14.530	1.00	0.00	H
ATOM	1672	CA	PHE	175	32.654	60.869	-16.632	1.00	0.00	C
ATOM	1673	CB	PHE	175	33.968	61.660	-16.734	1.00	0.00	C
ATOM	1674	CG	PHE	175	34.426	61.673	-18.150	1.00	0.00	C
ATOM	1675	CD1	PHE	175	33.842	62.512	-19.070	1.00	0.00	C
ATOM	1676	CD2	PHE	175	35.458	60.855	-18.550	1.00	0.00	C
ATOM	1677	CE1	PHE	175	34.274	62.523	-20.376	1.00	0.00	C
ATOM	1678	CE2	PHE	175	35.893	60.862	-19.854	1.00	0.00	C
ATOM	1679	CZ	PHE	175	35.299	61.697	-20.770	1.00	0.00	C
ATOM	1680	C	PHE	175	32.876	59.535	-17.298	1.00	0.00	C
ATOM	1681	O	PHE	175	32.319	59.222	-18.348	1.00	0.00	O
ATOM	1682	N	THR	176	33.659	58.665	-16.626	1.00	0.00	N
ATOM	1683	HN	THR	176	33.860	58.837	-15.641	1.00	0.00	H
ATOM	1684	CA	THR	176	34.218	57.503	-17.261	1.00	0.00	C
ATOM	1685	CB	THR	176	35.071	56.677	-16.346	1.00	0.00	C
ATOM	1686	OG1	THR	176	36.140	57.458	-15.832	1.00	0.00	O
ATOM	1687	HG1	THR	176	36.681	56.935	-15.252	1.00	0.00	H
ATOM	1688	CG2	THR	176	35.618	55.480	-17.141	1.00	0.00	C
ATOM	1689	C	THR	176	33.164	56.601	-17.794	1.00	0.00	C
ATOM	1690	O	THR	176	33.265	56.138	-18.929	1.00	0.00	O
ATOM	1691	N	ARG	177	32.113	56.321	-17.012	1.00	0.00	N
ATOM	1692	HN	ARG	177	31.981	56.758	-16.100	1.00	0.00	H
ATOM	1693	CA	ARG	177	31.189	55.369	-17.542	1.00	0.00	C
ATOM	1694	CB	ARG	177	30.650	54.384	-16.491	1.00	0.00	C
ATOM	1695	CG	ARG	177	31.658	53.293	-16.126	1.00	0.00	C
ATOM	1696	CD	ARG	177	32.937	53.824	-15.477	1.00	0.00	C
ATOM	1697	NE	ARG	177	33.808	52.650	-15.188	1.00	0.00	N
ATOM	1698	HE	ARG	177	33.786	52.211	-14.267	1.00	0.00	H
ATOM	1699	CZ	ARG	177	34.635	52.163	-16.158	1.00	0.00	C

ATOM	1700	NH1	ARG	177	34.665	52.754	-17.388	1.00	0.00	N
ATOM	1701	1HH1	ARG	177	35.283	52.390	-18.113	1.00	0.00	H
ATOM	1702	2HH1	ARG	177	34.065	53.556	-17.582	1.00	0.00	H
ATOM	1703	NH2	ARG	177	35.438	51.089	-15.898	1.00	0.00	N
ATOM	1704	1HH2	ARG	177	36.056	50.725	-16.623	1.00	0.00	H
ATOM	1705	2HH2	ARG	177	35.416	50.647	-14.979	1.00	0.00	H
ATOM	1706	C	ARG	177	30.029	56.058	-18.153	1.00	0.00	C
ATOM	1707	O	ARG	177	29.190	56.613	-17.451	1.00	0.00	O
ATOM	1708	N	GLY	178	29.900	55.943	-19.487	1.00	0.00	N
ATOM	1709	HN	GLY	178	30.575	55.392	-20.017	1.00	0.00	H
ATOM	1710	CA	GLY	178	28.820	56.590	-20.166	1.00	0.00	C
ATOM	1711	C	GLY	178	29.322	57.328	-21.357	1.00	0.00	C
ATOM	1712	O	GLY	178	28.702	57.207	-22.413	1.00	0.00	O
ATOM	1713	N	TRP	179	30.468	58.039	-21.242	1.00	0.00	N
ATOM	1714	HN	TRP	179	30.964	58.036	-20.351	1.00	0.00	H
ATOM	1715	CA	TRP	179	31.010	58.800	-22.339	1.00	0.00	C
ATOM	1716	CB	TRP	179	31.678	57.898	-23.389	1.00	0.00	C
ATOM	1717	CG	TRP	179	32.832	57.111	-22.811	1.00	0.00	C
ATOM	1718	CD2	TRP	179	33.463	55.993	-23.455	1.00	0.00	C
ATOM	1719	CD1	TRP	179	33.451	57.258	-21.604	1.00	0.00	C
ATOM	1720	NE1	TRP	179	34.423	56.299	-21.452	1.00	0.00	N
ATOM	1721	HE1	TRP	179	35.028	56.188	-20.639	1.00	0.00	H
ATOM	1722	CE2	TRP	179	34.442	55.513	-22.584	1.00	0.00	C
ATOM	1723	CE3	TRP	179	33.238	55.408	-24.668	1.00	0.00	C
ATOM	1724	CZ2	TRP	179	35.215	54.436	-22.914	1.00	0.00	C
ATOM	1725	CZ3	TRP	179	34.027	54.329	-25.000	1.00	0.00	C
ATOM	1726	CH2	TRP	179	34.995	53.851	-24.141	1.00	0.00	C
ATOM	1727	C	TRP	179	29.881	59.564	-22.958	1.00	0.00	C
ATOM	1728	O	TRP	179	29.428	59.226	-24.048	1.00	0.00	O
ATOM	1729	N	LYS	180	29.389	60.584	-22.228	1.00	0.00	N
ATOM	1730	HN	LYS	180	29.867	60.773	-21.347	1.00	0.00	H
ATOM	1731	CA	LYS	180	28.273	61.441	-22.535	1.00	0.00	C
ATOM	1732	CB	LYS	180	28.124	61.703	-24.041	1.00	0.00	C
ATOM	1733	CG	LYS	180	27.241	60.685	-24.761	1.00	0.00	C
ATOM	1734	CD	LYS	180	27.305	60.828	-26.276	1.00	0.00	C
ATOM	1735	CE	LYS	180	28.550	60.157	-26.860	1.00	0.00	C
ATOM	1736	NZ	LYS	180	29.772	60.766	-26.286	1.00	0.00	N
ATOM	1737	HZ1	LYS	180	30.602	60.319	-26.675	1.00	0.00	H
ATOM	1738	HZ2	LYS	180	29.768	60.742	-25.266	1.00	0.00	H
ATOM	1739	HZ3	LYS	180	29.789	61.778	-26.411	1.00	0.00	H
ATOM	1740	C	LYS	180	26.995	60.800	-22.055	1.00	0.00	C
ATOM	1741	O	LYS	180	25.972	61.476	-21.955	1.00	0.00	O
ATOM	1742	N	LEU	181	26.993	59.479	-21.777	1.00	0.00	N
ATOM	1743	HN	LEU	181	27.800	58.916	-22.044	1.00	0.00	H
ATOM	1744	CA	LEU	181	25.885	58.841	-21.114	1.00	0.00	C
ATOM	1745	CB	LEU	181	25.894	57.308	-21.288	1.00	0.00	C
ATOM	1746	CG	LEU	181	24.830	56.544	-20.471	1.00	0.00	C
ATOM	1747	CD1	LEU	181	25.222	56.413	-18.990	1.00	0.00	C
ATOM	1748	CD2	LEU	181	23.445	57.181	-20.637	1.00	0.00	C
ATOM	1749	C	LEU	181	26.033	59.159	-19.678	1.00	0.00	C
ATOM	1750	O	LEU	181	25.082	59.450	-18.958	1.00	0.00	O
ATOM	1751	N	THR	182	27.298	59.109	-19.245	1.00	0.00	N
ATOM	1752	HN	THR	182	28.023	58.833	-19.907	1.00	0.00	H
ATOM	1753	CA	THR	182	27.688	59.419	-17.912	1.00	0.00	C
ATOM	1754	CB	THR	182	29.153	59.285	-17.718	1.00	0.00	C
ATOM	1755	OG1	THR	182	29.391	59.072	-16.342	1.00	0.00	O
ATOM	1756	HG1	THR	182	30.329	58.986	-16.218	1.00	0.00	H
ATOM	1757	CG2	THR	182	29.914	60.507	-18.254	1.00	0.00	C
ATOM	1758	C	THR	182	27.359	60.856	-17.790	1.00	0.00	C
ATOM	1759	O	THR	182	27.185	61.384	-16.692	1.00	0.00	O
ATOM	1760	N	LEU	183	27.402	61.520	-18.960	1.00	0.00	N
ATOM	1761	HN	LEU	183	27.718	60.996	-19.776	1.00	0.00	H
ATOM	1762	CA	LEU	183	27.049	62.883	-19.167	1.00	0.00	C
ATOM	1763	CB	LEU	183	27.473	63.451	-20.532	1.00	0.00	C
ATOM	1764	CG	LEU	183	28.965	63.813	-20.613	1.00	0.00	C
ATOM	1765	CD1	LEU	183	29.278	65.009	-19.702	1.00	0.00	C
ATOM	1766	CD2	LEU	183	29.869	62.608	-20.322	1.00	0.00	C
ATOM	1767	C	LEU	183	25.579	63.014	-19.072	1.00	0.00	C
ATOM	1768	O	LEU	183	25.091	64.070	-18.700	1.00	0.00	O
ATOM	1769	N	VAL	184	24.820	61.983	-19.474	1.00	0.00	N
ATOM	1770	HN	VAL	184	25.242	61.161	-19.906	1.00	0.00	H
ATOM	1771	CA	VAL	184	23.406	62.065	-19.282	1.00	0.00	C
ATOM	1772	CB	VAL	184	22.686	60.800	-19.638	1.00	0.00	C
ATOM	1773	CG1	VAL	184	21.208	60.950	-19.238	1.00	0.00	C



ATOM	1774	CG2	VAL	184	22.904	60.513	-21.133	1.00	0.00	C
ATOM	1775	C	VAL	184	23.284	62.237	-17.811	1.00	0.00	C
ATOM	1776	O	VAL	184	22.495	63.045	-17.325	1.00	0.00	O
ATOM	1777	N	ILE	185	24.130	61.499	-17.068	1.00	0.00	N
ATOM	1778	HN	ILE	185	24.778	60.851	-17.516	1.00	0.00	H
ATOM	1779	CA	ILE	185	24.112	61.632	-15.644	1.00	0.00	C
ATOM	1780	CB	ILE	185	25.144	60.812	-14.916	1.00	0.00	C
ATOM	1781	CG1	ILE	185	24.890	59.302	-15.022	1.00	0.00	C
ATOM	1782	CG2	ILE	185	25.183	61.323	-13.466	1.00	0.00	C
ATOM	1783	CD1	ILE	185	25.305	58.679	-16.346	1.00	0.00	C
ATOM	1784	C	ILE	185	24.465	63.030	-15.294	1.00	0.00	C
ATOM	1785	O	ILE	185	23.641	63.739	-14.727	1.00	0.00	O
ATOM	1786	N	LEU	186	25.638	63.502	-15.759	1.00	0.00	N
ATOM	1787	HN	LEU	186	26.175	62.940	-16.420	1.00	0.00	H
ATOM	1788	CA	LEU	186	26.148	64.778	-15.345	1.00	0.00	C
ATOM	1789	CB	LEU	186	27.436	65.174	-16.089	1.00	0.00	C
ATOM	1790	CG	LEU	186	28.637	64.264	-15.774	1.00	0.00	C
ATOM	1791	CD1	LEU	186	29.892	64.711	-16.539	1.00	0.00	C
ATOM	1792	CD2	LEU	186	28.868	64.147	-14.260	1.00	0.00	C
ATOM	1793	C	LEU	186	25.119	65.817	-15.654	1.00	0.00	C
ATOM	1794	O	LEU	186	24.892	66.729	-14.861	1.00	0.00	O
ATOM	1795	N	ALA	187	24.481	65.729	-16.830	1.00	0.00	N
ATOM	1796	HN	ALA	187	24.682	64.968	-17.478	1.00	0.00	H
ATOM	1797	CA	ALA	187	23.514	66.726	-17.152	1.00	0.00	C
ATOM	1798	CB	ALA	187	23.043	66.637	-18.612	1.00	0.00	C
ATOM	1799	C	ALA	187	22.286	66.655	-16.297	1.00	0.00	C
ATOM	1800	O	ALA	187	22.109	67.472	-15.403	1.00	0.00	O
ATOM	1801	N	ILE	188	21.464	65.599	-16.433	1.00	0.00	N
ATOM	1802	HN	ILE	188	21.712	64.807	-17.026	1.00	0.00	H
ATOM	1803	CA	ILE	188	20.226	65.632	-15.711	1.00	0.00	C
ATOM	1804	CB	ILE	188	19.268	64.557	-16.178	1.00	0.00	C
ATOM	1805	CG1	ILE	188	19.878	63.140	-16.153	1.00	0.00	C
ATOM	1806	CG2	ILE	188	18.769	64.974	-17.570	1.00	0.00	C
ATOM	1807	CD1	ILE	188	19.898	62.431	-14.802	1.00	0.00	C
ATOM	1808	C	ILE	188	20.495	65.579	-14.246	1.00	0.00	C
ATOM	1809	O	ILE	188	20.037	66.438	-13.494	1.00	0.00	O
ATOM	1810	N	SER	189	21.328	64.626	-13.808	1.00	0.00	N
ATOM	1811	HN	SER	189	21.811	64.016	-14.467	1.00	0.00	H
ATOM	1812	CA	SER	189	21.527	64.480	-12.402	1.00	0.00	C
ATOM	1813	CB	SER	189	22.330	63.218	-12.019	1.00	0.00	C
ATOM	1814	OG	SER	189	21.616	62.054	-12.410	1.00	0.00	O
ATOM	1815	HG	SER	189	22.110	61.278	-12.174	1.00	0.00	H
ATOM	1816	C	SER	189	22.122	65.732	-11.824	1.00	0.00	C
ATOM	1817	O	SER	189	21.419	66.379	-11.053	1.00	0.00	O
ATOM	1818	N	PRO	190	23.306	66.194	-12.171	1.00	0.00	N
ATOM	1819	CA	PRO	190	23.775	67.386	-11.517	1.00	0.00	C
ATOM	1820	CD	PRO	190	24.425	65.314	-12.483	1.00	0.00	C
ATOM	1821	CB	PRO	190	25.226	67.554	-11.953	1.00	0.00	C
ATOM	1822	CG	PRO	190	25.699	66.097	-12.114	1.00	0.00	C
ATOM	1823	C	PRO	190	22.886	68.579	-11.711	1.00	0.00	C
ATOM	1824	O	PRO	190	22.954	69.483	-10.880	1.00	0.00	O
ATOM	1825	N	VAL	191	22.077	68.633	-12.789	1.00	0.00	N
ATOM	1826	HN	VAL	191	22.108	67.894	-13.491	1.00	0.00	H
ATOM	1827	CA	VAL	191	21.170	69.740	-12.943	1.00	0.00	C
ATOM	1828	CB	VAL	191	20.510	69.809	-14.289	1.00	0.00	C
ATOM	1829	CG1	VAL	191	19.395	70.867	-14.228	1.00	0.00	C
ATOM	1830	CG2	VAL	191	21.588	70.156	-15.330	1.00	0.00	C
ATOM	1831	C	VAL	191	20.091	69.672	-11.906	1.00	0.00	C
ATOM	1832	O	VAL	191	19.790	70.673	-11.257	1.00	0.00	O
ATOM	1833	N	LEU	192	19.479	68.486	-11.707	1.00	0.00	N
ATOM	1834	HN	LEU	192	19.753	67.666	-12.249	1.00	0.00	H
ATOM	1835	CA	LEU	192	18.438	68.393	-10.723	1.00	0.00	C
ATOM	1836	CB	LEU	192	17.791	66.997	-10.620	1.00	0.00	C
ATOM	1837	CG	LEU	192	16.753	66.676	-11.718	1.00	0.00	C
ATOM	1838	CD1	LEU	192	15.507	67.562	-11.570	1.00	0.00	C
ATOM	1839	CD2	LEU	192	17.343	66.746	-13.130	1.00	0.00	C
ATOM	1840	C	LEU	192	19.060	68.704	-9.406	1.00	0.00	C
ATOM	1841	O	LEU	192	18.526	69.484	-8.620	1.00	0.00	O
ATOM	1842	N	GLY	193	20.265	68.158	-9.179	1.00	0.00	N
ATOM	1843	HN	GLY	193	20.706	67.608	-9.916	1.00	0.00	H
ATOM	1844	CA	GLY	193	20.949	68.324	-7.934	1.00	0.00	C
ATOM	1845	C	GLY	193	21.097	69.786	-7.707	1.00	0.00	C
ATOM	1846	O	GLY	193	21.131	70.240	-6.566	1.00	0.00	O
ATOM	1847	N	LEU	194	21.248	70.553	-8.800	1.00	0.00	N

ATOM	1848	HN	LEU	194	21.259	70.116	-9.722	1.00	0.00	H
ATOM	1849	CA	LEU	194	21.393	71.971	-8.693	1.00	0.00	C
ATOM	1850	CB	LEU	194	21.671	72.616	-10.063	1.00	0.00	C
ATOM	1851	CG	LEU	194	21.846	74.144	-10.031	1.00	0.00	C
ATOM	1852	CD1	LEU	194	20.510	74.892	-9.876	1.00	0.00	C
ATOM	1853	CD2	LEU	194	22.876	74.541	-8.962	1.00	0.00	C
ATOM	1854	C	LEU	194	20.132	72.554	-8.131	1.00	0.00	C
ATOM	1855	O	LEU	194	20.180	73.361	-7.206	1.00	0.00	O
ATOM	1856	N	SER	195	18.958	72.144	-8.648	1.00	0.00	N
ATOM	1857	HN	SER	195	18.937	71.427	-9.373	1.00	0.00	H
ATOM	1858	CA	SER	195	17.735	72.727	-8.168	1.00	0.00	C
ATOM	1859	CB	SER	195	16.483	72.178	-8.879	1.00	0.00	C
ATOM	1860	OG	SER	195	16.302	70.804	-8.570	1.00	0.00	O
ATOM	1861	HG	SER	195	15.530	70.466	-9.008	1.00	0.00	H
ATOM	1862	C	SER	195	17.607	72.393	-6.718	1.00	0.00	C
ATOM	1863	O	SER	195	17.160	73.213	-5.918	1.00	0.00	O
ATOM	1864	N	ALA	196	17.993	71.161	-6.342	1.00	0.00	N
ATOM	1865	HN	ALA	196	18.368	70.513	-7.035	1.00	0.00	H
ATOM	1866	CA	ALA	196	17.881	70.753	-4.975	1.00	0.00	C
ATOM	1867	CB	ALA	196	18.271	69.281	-4.756	1.00	0.00	C
ATOM	1868	C	ALA	196	18.791	71.582	-4.122	1.00	0.00	C
ATOM	1869	O	ALA	196	18.387	72.093	-3.081	1.00	0.00	O
ATOM	1870	N	ALA	197	20.047	71.776	-4.555	1.00	0.00	N
ATOM	1871	HN	ALA	197	20.342	71.432	-5.469	1.00	0.00	H
ATOM	1872	CA	ALA	197	20.964	72.476	-3.706	1.00	0.00	C
ATOM	1873	CB	ALA	197	22.371	72.589	-4.316	1.00	0.00	C
ATOM	1874	C	ALA	197	20.459	73.866	-3.483	1.00	0.00	C
ATOM	1875	O	ALA	197	20.432	74.337	-2.348	1.00	0.00	O
ATOM	1876	N	VAL	198	20.038	74.558	-4.559	1.00	0.00	N
ATOM	1877	HN	VAL	198	20.019	74.102	-5.471	1.00	0.00	H
ATOM	1878	CA	VAL	198	19.615	75.925	-4.446	1.00	0.00	C
ATOM	1879	CB	VAL	198	19.330	76.553	-5.778	1.00	0.00	C
ATOM	1880	CG1	VAL	198	18.770	77.967	-5.542	1.00	0.00	C
ATOM	1881	CG2	VAL	198	20.612	76.512	-6.626	1.00	0.00	C
ATOM	1882	C	VAL	198	18.357	76.070	-3.650	1.00	0.00	C
ATOM	1883	O	VAL	198	18.346	76.735	-2.620	1.00	0.00	O
ATOM	1884	N	TRP	199	17.264	75.409	-4.068	1.00	0.00	N
ATOM	1885	HN	TRP	199	17.327	74.732	-4.829	1.00	0.00	H
ATOM	1886	CA	TRP	199	16.006	75.671	-3.426	1.00	0.00	C
ATOM	1887	CB	TRP	199	14.823	74.897	-4.048	1.00	0.00	C
ATOM	1888	CG	TRP	199	13.445	75.393	-3.645	1.00	0.00	C
ATOM	1889	CD2	TRP	199	12.743	75.062	-2.433	1.00	0.00	C
ATOM	1890	CD1	TRP	199	12.626	76.233	-4.342	1.00	0.00	C
ATOM	1891	NE1	TRP	199	11.461	76.445	-3.646	1.00	0.00	N
ATOM	1892	HE1	TRP	199	10.684	77.032	-3.950	1.00	0.00	H
ATOM	1893	CE2	TRP	199	11.519	75.732	-2.469	1.00	0.00	C
ATOM	1894	CE3	TRP	199	13.085	74.269	-1.377	1.00	0.00	C
ATOM	1895	CZ2	TRP	199	10.619	75.617	-1.448	1.00	0.00	C
ATOM	1896	CZ3	TRP	199	12.175	74.156	-0.349	1.00	0.00	C
ATOM	1897	CH2	TRP	199	10.965	74.817	-0.383	1.00	0.00	C
ATOM	1898	C	TRP	199	16.100	75.258	-1.992	1.00	0.00	C
ATOM	1899	O	TRP	199	15.715	76.005	-1.097	1.00	0.00	O
ATOM	1900	N	ALA	200	16.629	74.051	-1.725	1.00	0.00	N
ATOM	1901	HN	ALA	200	16.999	73.469	-2.476	1.00	0.00	H
ATOM	1902	CA	ALA	200	16.663	73.598	-0.369	1.00	0.00	C
ATOM	1903	CB	ALA	200	17.233	72.177	-0.242	1.00	0.00	C
ATOM	1904	C	ALA	200	17.528	74.503	0.456	1.00	0.00	C
ATOM	1905	O	ALA	200	17.119	74.978	1.513	1.00	0.00	O
ATOM	1906	N	LYS	201	18.741	74.812	-0.026	1.00	0.00	N
ATOM	1907	HN	LYS	201	19.017	74.483	-0.951	1.00	0.00	H
ATOM	1908	CA	LYS	201	19.653	75.601	0.748	1.00	0.00	C
ATOM	1909	CB	LYS	201	21.057	75.679	0.126	1.00	0.00	C
ATOM	1910	CG	LYS	201	21.738	74.309	0.060	1.00	0.00	C
ATOM	1911	CD	LYS	201	21.812	73.596	1.412	1.00	0.00	C
ATOM	1912	CE	LYS	201	22.273	72.140	1.311	1.00	0.00	C
ATOM	1913	NZ	LYS	201	22.286	71.519	2.654	1.00	0.00	N
ATOM	1914	HZ1	LYS	201	22.593	70.549	2.587	1.00	0.00	H
ATOM	1915	HZ2	LYS	201	21.384	71.603	3.123	1.00	0.00	H
ATOM	1916	HZ3	LYS	201	22.848	72.053	3.317	1.00	0.00	H
ATOM	1917	C	LYS	201	19.111	76.980	0.907	1.00	0.00	C
ATOM	1918	O	LYS	201	19.312	77.610	1.944	1.00	0.00	O
ATOM	1919	N	ILE	202	18.415	77.498	-0.122	1.00	0.00	N
ATOM	1920	HN	ILE	202	18.229	76.947	-0.960	1.00	0.00	H
ATOM	1921	CA	ILE	202	17.944	78.843	-0.005	1.00	0.00	C

ATOM	1922	CB	ILE	202	17.293	79.415	-1.238	1.00	0.00	C
ATOM	1923	CG1	ILE	202	16.008	78.672	-1.630	1.00	0.00	C
ATOM	1924	CG2	ILE	202	18.356	79.462	-2.343	1.00	0.00	C
ATOM	1925	CD1	ILE	202	15.190	79.395	-2.700	1.00	0.00	C
ATOM	1926	C	ILE	202	16.967	78.893	1.114	1.00	0.00	C
ATOM	1927	O	ILE	202	17.001	79.794	1.947	1.00	0.00	O
ATOM	1928	N	LEU	203	16.083	77.893	1.172	1.00	0.00	N
ATOM	1929	HN	LEU	203	16.127	77.149	0.476	1.00	0.00	H
ATOM	1930	CA	LEU	203	15.084	77.842	2.179	1.00	0.00	C
ATOM	1931	CB	LEU	203	14.165	76.642	1.931	1.00	0.00	C
ATOM	1932	CG	LEU	203	12.954	76.539	2.857	1.00	0.00	C
ATOM	1933	CD1	LEU	203	12.086	77.808	2.799	1.00	0.00	C
ATOM	1934	CD2	LEU	203	12.158	75.280	2.499	1.00	0.00	C
ATOM	1935	C	LEU	203	15.786	77.703	3.491	1.00	0.00	C
ATOM	1936	O	LEU	203	15.395	78.326	4.471	1.00	0.00	O
ATOM	1937	N	SER	204	16.874	76.911	3.540	1.00	0.00	N
ATOM	1938	HN	SER	204	17.210	76.464	2.687	1.00	0.00	H
ATOM	1939	CA	SER	204	17.569	76.686	4.779	1.00	0.00	C
ATOM	1940	CB	SER	204	18.825	75.813	4.608	1.00	0.00	C
ATOM	1941	OG	SER	204	18.463	74.510	4.172	1.00	0.00	O
ATOM	1942	HG	SER	204	19.238	73.971	4.066	1.00	0.00	H
ATOM	1943	C	SER	204	18.008	78.003	5.339	1.00	0.00	C
ATOM	1944	O	SER	204	17.852	78.266	6.530	1.00	0.00	O
ATOM	1945	N	SER	205	18.572	78.882	4.496	1.00	0.00	N
ATOM	1946	HN	SER	205	18.704	78.642	3.513	1.00	0.00	H
ATOM	1947	CA	SER	205	18.987	80.161	4.991	1.00	0.00	C
ATOM	1948	CB	SER	205	19.623	81.028	3.900	1.00	0.00	C
ATOM	1949	OG	SER	205	19.800	82.344	4.393	1.00	0.00	O
ATOM	1950	HG	SER	205	20.194	82.882	3.716	1.00	0.00	H
ATOM	1951	C	SER	205	17.753	80.865	5.441	1.00	0.00	C
ATOM	1952	O	SER	205	17.738	81.557	6.457	1.00	0.00	O
ATOM	1953	N	PHE	206	16.662	80.646	4.695	1.00	0.00	N
ATOM	1954	HN	PHE	206	16.728	79.997	3.911	1.00	0.00	H
ATOM	1955	CA	PHE	206	15.410	81.284	4.953	1.00	0.00	C
ATOM	1956	CB	PHE	206	14.322	80.858	3.950	1.00	0.00	C
ATOM	1957	CG	PHE	206	13.070	81.610	4.252	1.00	0.00	C
ATOM	1958	CD1	PHE	206	12.976	82.949	3.946	1.00	0.00	C
ATOM	1959	CD2	PHE	206	11.983	80.981	4.814	1.00	0.00	C
ATOM	1960	CE1	PHE	206	11.826	83.652	4.214	1.00	0.00	C
ATOM	1961	CE2	PHE	206	10.828	81.678	5.083	1.00	0.00	C
ATOM	1962	CZ	PHE	206	10.749	83.018	4.785	1.00	0.00	C
ATOM	1963	C	PHE	206	14.966	80.893	6.328	1.00	0.00	C
ATOM	1964	O	PHE	206	14.412	81.715	7.055	1.00	0.00	O
ATOM	1965	N	THR	207	15.182	79.623	6.721	1.00	0.00	N
ATOM	1966	HN	THR	207	15.674	78.973	6.108	1.00	0.00	H
ATOM	1967	CA	THR	207	14.717	79.192	8.005	1.00	0.00	C
ATOM	1968	CB	THR	207	14.841	77.710	8.260	1.00	0.00	C
ATOM	1969	OG1	THR	207	14.015	77.343	9.355	1.00	0.00	O
ATOM	1970	HG1	THR	207	13.115	77.570	9.155	1.00	0.00	H
ATOM	1971	CG2	THR	207	16.297	77.343	8.584	1.00	0.00	C
ATOM	1972	C	THR	207	15.454	79.929	9.080	1.00	0.00	C
ATOM	1973	O	THR	207	14.848	80.381	10.050	1.00	0.00	O
ATOM	1974	N	ASP	208	16.781	80.102	8.925	1.00	0.00	N
ATOM	1975	HN	ASP	208	17.242	79.784	8.073	1.00	0.00	H
ATOM	1976	CA	ASP	208	17.543	80.735	9.963	1.00	0.00	C
ATOM	1977	CB	ASP	208	19.044	80.819	9.632	1.00	0.00	C
ATOM	1978	CG	ASP	208	19.807	81.099	10.921	1.00	0.00	C
ATOM	1979	OD1	ASP	208	19.207	81.692	11.856	1.00	0.00	O
ATOM	1980	OD2	ASP	208	21.006	80.716	10.986	1.00	0.00	O
ATOM	1981	C	ASP	208	17.016	82.124	10.134	1.00	0.00	C
ATOM	1982	O	ASP	208	16.794	82.582	11.254	1.00	0.00	O
ATOM	1983	N	LYS	209	16.744	82.816	9.013	1.00	0.00	N
ATOM	1984	HN	LYS	209	16.891	82.384	8.101	1.00	0.00	H
ATOM	1985	CA	LYS	209	16.248	84.157	9.097	1.00	0.00	C
ATOM	1986	CB	LYS	209	15.837	84.752	7.749	1.00	0.00	C
ATOM	1987	CG	LYS	209	15.011	86.013	7.983	1.00	0.00	C
ATOM	1988	CD	LYS	209	14.520	86.721	6.731	1.00	0.00	C
ATOM	1989	CE	LYS	209	13.338	87.628	7.065	1.00	0.00	C
ATOM	1990	NZ	LYS	209	12.247	86.823	7.662	1.00	0.00	N
ATOM	1991	HZ1	LYS	209	11.457	87.429	7.885	1.00	0.00	H
ATOM	1992	HZ2	LYS	209	12.562	86.288	8.471	1.00	0.00	H
ATOM	1993	HZ3	LYS	209	11.976	86.041	7.066	1.00	0.00	H
ATOM	1994	C	LYS	209	14.979	84.118	9.880	1.00	0.00	C
ATOM	1995	O	LYS	209	14.712	85.000	10.695	1.00	0.00	O

ATOM	1996	N	GLU	210	14.156	83.080	9.653	1.00	0.00	N
ATOM	1997	HN	GLU	210	14.421	82.348	8.994	1.00	0.00	H
ATOM	1998	CA	GLU	210	12.905	83.010	10.343	1.00	0.00	C
ATOM	1999	CB	GLU	210	12.069	81.771	9.981	1.00	0.00	C
ATOM	2000	CG	GLU	210	11.355	81.902	8.637	1.00	0.00	C
ATOM	2001	CD	GLU	210	10.368	83.055	8.769	1.00	0.00	C
ATOM	2002	OE1	GLU	210	10.833	84.204	8.994	1.00	0.00	O
ATOM	2003	OE2	GLU	210	9.139	82.802	8.655	1.00	0.00	O
ATOM	2004	C	GLU	210	13.186	82.962	11.807	1.00	0.00	C
ATOM	2005	O	GLU	210	12.484	83.593	12.594	1.00	0.00	O
ATOM	2006	N	LEU	211	14.235	82.221	12.206	1.00	0.00	N
ATOM	2007	HN	LEU	211	14.802	81.748	11.503	1.00	0.00	H
ATOM	2008	CA	LEU	211	14.580	82.076	13.591	1.00	0.00	C
ATOM	2009	CB	LEU	211	15.753	81.100	13.804	1.00	0.00	C
ATOM	2010	CG	LEU	211	15.392	79.633	13.503	1.00	0.00	C
ATOM	2011	CD1	LEU	211	16.589	78.695	13.727	1.00	0.00	C
ATOM	2012	CD2	LEU	211	14.161	79.202	14.315	1.00	0.00	C
ATOM	2013	C	LEU	211	14.965	83.404	14.187	1.00	0.00	C
ATOM	2014	O	LEU	211	14.606	83.697	15.326	1.00	0.00	O
ATOM	2015	N	LEU	212	15.711	84.245	13.440	1.00	0.00	N
ATOM	2016	HN	LEU	212	15.941	83.981	12.482	1.00	0.00	H
ATOM	2017	CA	LEU	212	16.193	85.503	13.951	1.00	0.00	C
ATOM	2018	CB	LEU	212	17.097	86.225	12.925	1.00	0.00	C
ATOM	2019	CG	LEU	212	17.681	87.586	13.367	1.00	0.00	C
ATOM	2020	CD1	LEU	212	16.629	88.707	13.418	1.00	0.00	C
ATOM	2021	CD2	LEU	212	18.461	87.441	14.683	1.00	0.00	C
ATOM	2022	C	LEU	212	15.033	86.394	14.275	1.00	0.00	C
ATOM	2023	O	LEU	212	14.970	86.978	15.356	1.00	0.00	O
ATOM	2024	N	ALA	213	14.059	86.494	13.356	1.00	0.00	N
ATOM	2025	HN	ALA	213	14.125	85.960	12.489	1.00	0.00	H
ATOM	2026	CA	ALA	213	12.925	87.346	13.582	1.00	0.00	C
ATOM	2027	CB	ALA	213	11.891	87.289	12.443	1.00	0.00	C
ATOM	2028	C	ALA	213	12.268	86.830	14.818	1.00	0.00	C
ATOM	2029	O	ALA	213	11.735	87.586	15.628	1.00	0.00	O
ATOM	2030	N	TYR	214	12.307	85.499	14.986	1.00	0.00	N
ATOM	2031	HN	TYR	214	12.768	84.933	14.273	1.00	0.00	H
ATOM	2032	CA	TYR	214	11.734	84.836	16.115	1.00	0.00	C
ATOM	2033	CB	TYR	214	11.977	83.317	16.000	1.00	0.00	C
ATOM	2034	CG	TYR	214	11.761	82.612	17.291	1.00	0.00	C
ATOM	2035	CD1	TYR	214	10.528	82.125	17.638	1.00	0.00	C
ATOM	2036	CD2	TYR	214	12.816	82.426	18.153	1.00	0.00	C
ATOM	2037	CE1	TYR	214	10.358	81.469	18.833	1.00	0.00	C
ATOM	2038	CE2	TYR	214	12.650	81.770	19.349	1.00	0.00	C
ATOM	2039	CZ	TYR	214	11.413	81.289	19.692	1.00	0.00	C
ATOM	2040	OH	TYR	214	11.228	80.613	20.916	1.00	0.00	O
ATOM	2041	HH	TYR	214	11.958	80.488	21.511	1.00	0.00	H
ATOM	2042	C	TYR	214	12.363	85.370	17.375	1.00	0.00	C
ATOM	2043	O	TYR	214	11.665	85.702	18.331	1.00	0.00	O
ATOM	2044	N	ALA	215	13.699	85.522	17.404	1.00	0.00	N
ATOM	2045	HN	ALA	215	14.242	85.325	16.564	1.00	0.00	H
ATOM	2046	CA	ALA	215	14.379	85.958	18.598	1.00	0.00	C
ATOM	2047	CB	ALA	215	15.905	86.030	18.413	1.00	0.00	C
ATOM	2048	C	ALA	215	13.913	87.326	18.996	1.00	0.00	C
ATOM	2049	O	ALA	215	13.733	87.605	20.182	1.00	0.00	O
ATOM	2050	N	LYS	216	13.706	88.219	18.011	1.00	0.00	N
ATOM	2051	HN	LYS	216	13.838	87.927	17.043	1.00	0.00	H
ATOM	2052	CA	LYS	216	13.305	89.573	18.282	1.00	0.00	C
ATOM	2053	CB	LYS	216	13.045	90.362	16.985	1.00	0.00	C
ATOM	2054	CG	LYS	216	14.263	90.554	16.075	1.00	0.00	C
ATOM	2055	CD	LYS	216	15.334	91.508	16.612	1.00	0.00	C
ATOM	2056	CE	LYS	216	16.125	90.980	17.810	1.00	0.00	C
ATOM	2057	NZ	LYS	216	15.452	91.362	19.071	1.00	0.00	N
ATOM	2058	HZ1	LYS	216	15.979	91.010	19.870	1.00	0.00	H
ATOM	2059	HZ2	LYS	216	14.479	91.057	19.092	1.00	0.00	H
ATOM	2060	HZ3	LYS	216	15.295	92.368	19.130	1.00	0.00	H
ATOM	2061	C	LYS	216	11.991	89.533	18.997	1.00	0.00	C
ATOM	2062	O	LYS	216	11.781	90.209	20.004	1.00	0.00	O
ATOM	2063	N	ALA	217	11.078	88.689	18.495	1.00	0.00	N
ATOM	2064	HN	ALA	217	11.347	88.086	17.718	1.00	0.00	H
ATOM	2065	CA	ALA	217	9.743	88.597	19.002	1.00	0.00	C
ATOM	2066	CB	ALA	217	8.911	87.550	18.246	1.00	0.00	C
ATOM	2067	C	ALA	217	9.793	88.173	20.436	1.00	0.00	C
ATOM	2068	O	ALA	217	8.960	88.587	21.241	1.00	0.00	O
ATOM	2069	N	GLY	218	10.757	87.297	20.769	1.00	0.00	N

ATOM	2070	HN	GLY	218	11.411	87.011	20.041	1.00	0.00	H
ATOM	2071	CA	GLY	218	10.929	86.735	22.083	1.00	0.00	C
ATOM	2072	C	GLY	218	11.299	87.768	23.119	1.00	0.00	C
ATOM	2073	O	GLY	218	10.929	87.637	24.285	1.00	0.00	O
ATOM	2074	N	ALA	219	12.127	88.768	22.763	1.00	0.00	N
ATOM	2075	HN	ALA	219	12.490	88.809	21.811	1.00	0.00	H
ATOM	2076	CA	ALA	219	12.505	89.781	23.716	1.00	0.00	C
ATOM	2077	CB	ALA	219	13.572	90.738	23.160	1.00	0.00	C
ATOM	2078	C	ALA	219	11.299	90.597	24.060	1.00	0.00	C
ATOM	2079	O	ALA	219	11.061	90.932	25.220	1.00	0.00	O
ATOM	2080	N	VAL	220	10.503	90.924	23.026	1.00	0.00	N
ATOM	2081	HN	VAL	220	10.783	90.621	22.093	1.00	0.00	H
ATOM	2082	CA	VAL	220	9.286	91.672	23.152	1.00	0.00	C
ATOM	2083	CB	VAL	220	8.620	91.954	21.836	1.00	0.00	C
ATOM	2084	CG1	VAL	220	7.301	92.695	22.110	1.00	0.00	C
ATOM	2085	CG2	VAL	220	9.595	92.739	20.942	1.00	0.00	C
ATOM	2086	C	VAL	220	8.377	90.800	23.948	1.00	0.00	C
ATOM	2087	O	VAL	220	7.327	91.219	24.428	1.00	0.00	O
ATOM	2088	N	ALA	221	8.694	89.499	23.961	1.00	0.00	N
ATOM	2089	HN	ALA	221	9.466	89.181	23.375	1.00	0.00	H
ATOM	2090	CA	ALA	221	8.003	88.538	24.756	1.00	0.00	C
ATOM	2091	CB	ALA	221	8.268	87.072	24.366	1.00	0.00	C
ATOM	2092	C	ALA	221	8.333	88.726	26.223	1.00	0.00	C
ATOM	2093	O	ALA	221	7.598	88.231	27.074	1.00	0.00	O
ATOM	2094	N	GLU	222	9.533	89.269	26.552	1.00	0.00	N
ATOM	2095	HN	GLU	222	10.149	89.575	25.799	1.00	0.00	H
ATOM	2096	CA	GLU	222	9.982	89.435	27.920	1.00	0.00	C
ATOM	2097	CB	GLU	222	11.508	89.607	27.978	1.00	0.00	C
ATOM	2098	CG	GLU	222	12.027	89.956	29.369	1.00	0.00	C
ATOM	2099	CD	GLU	222	11.663	88.828	30.319	1.00	0.00	C
ATOM	2100	OE1	GLU	222	11.073	87.816	29.852	1.00	0.00	O
ATOM	2101	OE2	GLU	222	11.976	88.968	31.531	1.00	0.00	O
ATOM	2102	C	GLU	222	9.381	90.546	28.769	1.00	0.00	C
ATOM	2103	O	GLU	222	8.589	90.279	29.671	1.00	0.00	O
ATOM	2104	N	GLU	223	9.687	91.835	28.478	1.00	0.00	N
ATOM	2105	HN	GLU	223	10.249	92.040	27.652	1.00	0.00	H
ATOM	2106	CA	GLU	223	9.231	92.929	29.317	1.00	0.00	C
ATOM	2107	CB	GLU	223	7.704	93.114	29.306	1.00	0.00	C
ATOM	2108	CG	GLU	223	7.170	93.645	27.973	1.00	0.00	C
ATOM	2109	CD	GLU	223	7.362	92.566	26.918	1.00	0.00	C
ATOM	2110	OE1	GLU	223	8.447	92.559	26.277	1.00	0.00	O
ATOM	2111	OE2	GLU	223	6.430	91.736	26.744	1.00	0.00	O
ATOM	2112	C	GLU	223	9.686	92.745	30.752	1.00	0.00	C
ATOM	2113	O	GLU	223	10.430	91.817	31.058	1.00	0.00	O
ATOM	2114	N	VAL	224	9.293	93.676	31.666	1.00	0.00	N
ATOM	2115	HN	VAL	224	8.715	94.455	31.351	1.00	0.00	H
ATOM	2116	CA	VAL	224	9.661	93.607	33.065	1.00	0.00	C
ATOM	2117	CB	VAL	224	9.586	94.924	33.786	1.00	0.00	C
ATOM	2118	CG1	VAL	224	9.785	94.663	35.290	1.00	0.00	C
ATOM	2119	CG2	VAL	224	10.645	95.870	33.192	1.00	0.00	C
ATOM	2120	C	VAL	224	8.762	92.642	33.782	1.00	0.00	C
ATOM	2121	O	VAL	224	7.573	92.536	33.489	1.00	0.00	O
ATOM	2122	N	LEU	225	9.395	91.750	34.564	1.00	0.00	N
ATOM	2123	HN	LEU	225	10.414	91.791	34.547	1.00	0.00	H
ATOM	2124	CA	LEU	225	8.825	90.745	35.421	1.00	0.00	C
ATOM	2125	CB	LEU	225	9.492	89.394	35.121	1.00	0.00	C
ATOM	2126	CG	LEU	225	9.095	88.833	33.729	1.00	0.00	C
ATOM	2127	CD1	LEU	225	9.325	89.801	32.557	1.00	0.00	C
ATOM	2128	CD2	LEU	225	9.846	87.535	33.457	1.00	0.00	C
ATOM	2129	C	LEU	225	8.818	91.053	36.899	1.00	0.00	C
ATOM	2130	O	LEU	225	8.129	90.380	37.663	1.00	0.00	O
ATOM	2131	N	ALA	226	9.697	91.974	37.349	1.00	0.00	N
ATOM	2132	HN	ALA	226	10.217	92.507	36.652	1.00	0.00	H
ATOM	2133	CA	ALA	226	9.960	92.265	38.744	1.00	0.00	C
ATOM	2134	CB	ALA	226	11.407	92.720	38.998	1.00	0.00	C
ATOM	2135	C	ALA	226	9.073	93.354	39.268	1.00	0.00	C
ATOM	2136	O	ALA	226	8.089	93.729	38.637	1.00	0.00	O
ATOM	2137	N	ALA	227	9.414	93.858	40.483	1.00	0.00	N
ATOM	2138	HN	ALA	227	10.237	93.471	40.946	1.00	0.00	H
ATOM	2139	CA	ALA	227	8.689	94.903	41.160	1.00	0.00	C
ATOM	2140	CB	ALA	227	8.539	96.176	40.311	1.00	0.00	C
ATOM	2141	C	ALA	227	7.336	94.358	41.427	1.00	0.00	C
ATOM	2142	O	ALA	227	6.365	95.071	41.663	1.00	0.00	O
ATOM	2143	N	ILE	228	7.301	93.032	41.512	1.00	0.00	N

ATOM	2144	HN	ILE	228	8.196	92.543	41.501	1.00	0.00	H
ATOM	2145	CA	ILE	228	6.129	92.234	41.617	1.00	0.00	C
ATOM	2146	CB	ILE	228	6.510	90.778	41.678	1.00	0.00	C
ATOM	2147	CG1	ILE	228	5.352	89.834	41.315	1.00	0.00	C
ATOM	2148	CG2	ILE	228	7.140	90.529	43.056	1.00	0.00	C
ATOM	2149	CD1	ILE	228	4.168	89.864	42.268	1.00	0.00	C
ATOM	2150	C	ILE	228	5.339	92.623	42.827	1.00	0.00	C
ATOM	2151	O	ILE	228	4.120	92.554	42.773	1.00	0.00	O
ATOM	2152	N	ARG	229	5.959	93.019	43.957	1.00	0.00	N
ATOM	2153	HN	ARG	229	6.975	93.093	44.004	1.00	0.00	H
ATOM	2154	CA	ARG	229	5.133	93.335	45.099	1.00	0.00	C
ATOM	2155	CB	ARG	229	5.935	93.790	46.331	1.00	0.00	C
ATOM	2156	CG	ARG	229	5.046	94.067	47.547	1.00	0.00	C
ATOM	2157	CD	ARG	229	5.817	94.390	48.828	1.00	0.00	C
ATOM	2158	NE	ARG	229	6.273	95.805	48.740	1.00	0.00	N
ATOM	2159	HE	ARG	229	6.615	96.180	47.855	1.00	0.00	H
ATOM	2160	CZ	ARG	229	6.230	96.596	49.852	1.00	0.00	C
ATOM	2161	NH1	ARG	229	5.740	96.095	51.024	1.00	0.00	N
ATOM	2162	1HH1	ARG	229	5.708	96.686	51.855	1.00	0.00	H
ATOM	2163	2HH1	ARG	229	5.407	95.132	51.069	1.00	0.00	H
ATOM	2164	NH2	ARG	229	6.675	97.884	49.792	1.00	0.00	N
ATOM	2165	1HH2	ARG	229	6.643	98.475	50.623	1.00	0.00	H
ATOM	2166	2HH2	ARG	229	7.041	98.258	48.917	1.00	0.00	H
ATOM	2167	C	ARG	229	4.217	94.450	44.714	1.00	0.00	C
ATOM	2168	O	ARG	229	3.010	94.382	44.939	1.00	0.00	O
ATOM	2169	N	THR	230	4.762	95.476	44.042	1.00	0.00	N
ATOM	2170	HN	THR	230	5.758	95.475	43.824	1.00	0.00	H
ATOM	2171	CA	THR	230	3.940	96.569	43.634	1.00	0.00	C
ATOM	2172	CB	THR	230	4.710	97.625	42.900	1.00	0.00	C
ATOM	2173	OG1	THR	230	5.755	98.125	43.721	1.00	0.00	O
ATOM	2174	HG1	THR	230	6.350	97.423	43.956	1.00	0.00	H
ATOM	2175	CG2	THR	230	3.747	98.762	42.519	1.00	0.00	C
ATOM	2176	C	THR	230	2.918	96.024	42.687	1.00	0.00	C
ATOM	2177	O	THR	230	1.767	96.460	42.685	1.00	0.00	O
ATOM	2178	N	VAL	231	3.325	95.065	41.834	1.00	0.00	N
ATOM	2179	HN	VAL	231	4.284	94.720	41.882	1.00	0.00	H
ATOM	2180	CA	VAL	231	2.421	94.521	40.854	1.00	0.00	C
ATOM	2181	CB	VAL	231	3.033	93.789	39.679	1.00	0.00	C
ATOM	2182	CG1	VAL	231	4.002	94.735	38.958	1.00	0.00	C
ATOM	2183	CG2	VAL	231	3.616	92.438	40.095	1.00	0.00	C
ATOM	2184	C	VAL	231	1.348	93.647	41.455	1.00	0.00	C
ATOM	2185	O	VAL	231	0.303	93.466	40.836	1.00	0.00	O
ATOM	2186	N	ILE	232	1.577	93.010	42.622	1.00	0.00	N
ATOM	2187	HN	ILE	232	2.475	93.122	43.093	1.00	0.00	H
ATOM	2188	CA	ILE	232	0.563	92.174	43.207	1.00	0.00	C
ATOM	2189	CB	ILE	232	0.988	91.493	44.479	1.00	0.00	C
ATOM	2190	CG1	ILE	232	2.024	90.393	44.212	1.00	0.00	C
ATOM	2191	CG2	ILE	232	-0.284	90.970	45.165	1.00	0.00	C
ATOM	2192	CD1	ILE	232	1.477	89.246	43.360	1.00	0.00	C
ATOM	2193	C	ILE	232	-0.586	93.052	43.574	1.00	0.00	C
ATOM	2194	O	ILE	232	-1.747	92.715	43.351	1.00	0.00	O
ATOM	2195	N	ALA	233	-0.266	94.208	44.176	1.00	0.00	N
ATOM	2196	HN	ALA	233	0.717	94.384	44.383	1.00	0.00	H
ATOM	2197	CA	ALA	233	-1.222	95.213	44.547	1.00	0.00	C
ATOM	2198	CB	ALA	233	-0.592	96.390	45.313	1.00	0.00	C
ATOM	2199	C	ALA	233	-1.815	95.754	43.279	1.00	0.00	C
ATOM	2200	O	ALA	233	-2.854	96.413	43.289	1.00	0.00	O
ATOM	2201	N	PHE	234	-1.050	95.639	42.180	1.00	0.00	N
ATOM	2202	HN	PHE	234	-0.131	95.210	42.287	1.00	0.00	H
ATOM	2203	CA	PHE	234	-1.432	96.077	40.860	1.00	0.00	C
ATOM	2204	CB	PHE	234	-0.206	96.075	39.924	1.00	0.00	C
ATOM	2205	CG	PHE	234	-0.484	96.875	38.698	1.00	0.00	C
ATOM	2206	CD1	PHE	234	-0.597	98.244	38.786	1.00	0.00	C
ATOM	2207	CD2	PHE	234	-0.587	96.274	37.465	1.00	0.00	C
ATOM	2208	CE1	PHE	234	-0.841	99.001	37.665	1.00	0.00	C
ATOM	2209	CE2	PHE	234	-0.831	97.027	36.340	1.00	0.00	C
ATOM	2210	CZ	PHE	234	-0.961	98.392	36.439	1.00	0.00	C
ATOM	2211	C	PHE	234	-2.500	95.175	40.288	1.00	0.00	C
ATOM	2212	O	PHE	234	-3.491	95.658	39.735	1.00	0.00	O
ATOM	2213	N	GLY	235	-2.328	93.837	40.441	1.00	0.00	N
ATOM	2214	HN	GLY	235	-1.483	93.511	40.911	1.00	0.00	H
ATOM	2215	CA	GLY	235	-3.272	92.852	39.977	1.00	0.00	C
ATOM	2216	C	GLY	235	-2.594	91.766	39.202	1.00	0.00	C
ATOM	2217	O	GLY	235	-2.655	90.590	39.566	1.00	0.00	O

ATOM	2218	N	GLY	236	-1.904	92.128	38.120	1.00	0.00	N
ATOM	2219	HN	GLY	236	-1.851	93.112	37.855	1.00	0.00	H
ATOM	2220	CA	GLY	236	-1.242	91.146	37.335	1.00	0.00	C
ATOM	2221	C	GLY	236	-1.514	91.592	35.966	1.00	0.00	C
ATOM	2222	O	GLY	236	-2.681	91.660	35.573	1.00	0.00	O
ATOM	2223	N	GLN	237	-0.436	91.912	35.222	1.00	0.00	N
ATOM	2224	HN	GLN	237	0.509	91.810	35.592	1.00	0.00	H
ATOM	2225	CA	GLN	237	-0.660	92.397	33.904	1.00	0.00	C
ATOM	2226	CB	GLN	237	0.645	92.705	33.145	1.00	0.00	C
ATOM	2227	CG	GLN	237	1.245	94.091	33.433	1.00	0.00	C
ATOM	2228	CD	GLN	237	1.886	94.189	34.817	1.00	0.00	C
ATOM	2229	OE1	GLN	237	1.718	93.324	35.674	1.00	0.00	O
ATOM	2230	NE2	GLN	237	2.642	95.297	35.045	1.00	0.00	N
ATOM	2231	1HE2	GLN	237	2.781	96.015	34.334	1.00	0.00	H
ATOM	2232	2HE2	GLN	237	3.070	95.362	35.969	1.00	0.00	H
ATOM	2233	C	GLN	237	-1.388	91.277	33.224	1.00	0.00	C
ATOM	2234	O	GLN	237	-2.553	91.422	32.858	1.00	0.00	O
ATOM	2235	N	LYS	238	-0.732	90.105	33.165	1.00	0.00	N
ATOM	2236	HN	LYS	238	0.243	90.124	33.466	1.00	0.00	H
ATOM	2237	CA	LYS	238	-1.230	88.833	32.733	1.00	0.00	C
ATOM	2238	CB	LYS	238	-2.474	88.395	33.519	1.00	0.00	C
ATOM	2239	CG	LYS	238	-2.231	88.260	35.023	1.00	0.00	C
ATOM	2240	CD	LYS	238	-3.523	88.119	35.831	1.00	0.00	C
ATOM	2241	CE	LYS	238	-4.424	89.356	35.777	1.00	0.00	C
ATOM	2242	NZ	LYS	238	-5.002	89.513	34.422	1.00	0.00	N
ATOM	2243	HZ1	LYS	238	-5.602	90.337	34.386	1.00	0.00	H
ATOM	2244	HZ2	LYS	238	-5.492	88.672	34.118	1.00	0.00	H
ATOM	2245	HZ3	LYS	238	-4.281	89.536	33.701	1.00	0.00	H
ATOM	2246	C	LYS	238	-1.584	88.819	31.279	1.00	0.00	C
ATOM	2247	O	LYS	238	-1.314	87.826	30.609	1.00	0.00	O
ATOM	2248	N	LYS	239	-2.275	89.873	30.793	1.00	0.00	N
ATOM	2249	HN	LYS	239	-2.575	90.577	31.467	1.00	0.00	H
ATOM	2250	CA	LYS	239	-2.627	90.097	29.420	1.00	0.00	C
ATOM	2251	CB	LYS	239	-3.899	90.926	29.201	1.00	0.00	C
ATOM	2252	CG	LYS	239	-4.151	91.104	27.703	1.00	0.00	C
ATOM	2253	CD	LYS	239	-5.517	91.667	27.334	1.00	0.00	C
ATOM	2254	CE	LYS	239	-5.703	91.827	25.823	1.00	0.00	C
ATOM	2255	NZ	LYS	239	-5.521	90.521	25.151	1.00	0.00	N
ATOM	2256	HZ1	LYS	239	-5.645	90.628	24.144	1.00	0.00	H
ATOM	2257	HZ2	LYS	239	-6.133	89.803	25.538	1.00	0.00	H
ATOM	2258	HZ3	LYS	239	-4.625	90.093	25.383	1.00	0.00	H
ATOM	2259	C	LYS	239	-1.561	90.811	28.656	1.00	0.00	C
ATOM	2260	O	LYS	239	-1.399	90.560	27.469	1.00	0.00	O
ATOM	2261	N	GLU	240	-0.861	91.786	29.274	1.00	0.00	N
ATOM	2262	HN	GLU	240	-1.026	92.000	30.258	1.00	0.00	H
ATOM	2263	CA	GLU	240	0.123	92.519	28.521	1.00	0.00	C
ATOM	2264	CB	GLU	240	0.845	93.589	29.359	1.00	0.00	C
ATOM	2265	CG	GLU	240	-0.032	94.767	29.788	1.00	0.00	C
ATOM	2266	CD	GLU	240	0.844	95.711	30.604	1.00	0.00	C
ATOM	2267	OE1	GLU	240	2.020	95.342	30.864	1.00	0.00	O
ATOM	2268	OE2	GLU	240	0.355	96.810	30.978	1.00	0.00	O
ATOM	2269	C	GLU	240	1.160	91.532	28.124	1.00	0.00	C
ATOM	2270	O	GLU	240	1.540	91.446	26.958	1.00	0.00	O
ATOM	2271	N	LEU	241	1.621	90.740	29.108	1.00	0.00	N
ATOM	2272	HN	LEU	241	1.242	90.842	30.049	1.00	0.00	H
ATOM	2273	CA	LEU	241	2.631	89.757	28.864	1.00	0.00	C
ATOM	2274	CB	LEU	241	3.067	88.991	30.123	1.00	0.00	C
ATOM	2275	CG	LEU	241	1.964	88.883	31.187	1.00	0.00	C
ATOM	2276	CD1	LEU	241	2.293	87.811	32.229	1.00	0.00	C
ATOM	2277	CD2	LEU	241	1.764	90.243	31.874	1.00	0.00	C
ATOM	2278	C	LEU	241	2.110	88.730	27.916	1.00	0.00	C
ATOM	2279	O	LEU	241	2.729	88.469	26.893	1.00	0.00	O
ATOM	2280	N	GLU	242	0.924	88.157	28.191	1.00	0.00	N
ATOM	2281	HN	GLU	242	0.380	88.478	28.992	1.00	0.00	H
ATOM	2282	CA	GLU	242	0.420	87.097	27.365	1.00	0.00	C
ATOM	2283	CB	GLU	242	-0.918	86.555	27.911	1.00	0.00	C
ATOM	2284	CG	GLU	242	-1.413	85.251	27.281	1.00	0.00	C
ATOM	2285	CD	GLU	242	-2.505	85.589	26.280	1.00	0.00	C
ATOM	2286	OE1	GLU	242	-2.580	86.774	25.855	1.00	0.00	O
ATOM	2287	OE2	GLU	242	-3.285	84.663	25.932	1.00	0.00	O
ATOM	2288	C	GLU	242	0.231	87.620	25.975	1.00	0.00	C
ATOM	2289	O	GLU	242	0.601	86.955	25.011	1.00	0.00	O
ATOM	2290	N	ARG	243	-0.307	88.847	25.831	1.00	0.00	N
ATOM	2291	HN	ARG	243	-0.515	89.411	26.655	1.00	0.00	H

ATOM	2292	CA	ARG	243	-0.588	89.362	24.523	1.00	0.00	C
ATOM	2293	CB	ARG	243	-1.223	90.759	24.530	1.00	0.00	C
ATOM	2294	CG	ARG	243	-1.167	91.406	23.148	1.00	0.00	C
ATOM	2295	CD	ARG	243	-2.241	92.459	22.899	1.00	0.00	C
ATOM	2296	NE	ARG	243	-3.478	91.710	22.547	1.00	0.00	N
ATOM	2297	HE	ARG	243	-4.161	91.480	23.268	1.00	0.00	H
ATOM	2298	CZ	ARG	243	-3.692	91.333	21.252	1.00	0.00	C
ATOM	2299	NH1	ARG	243	-2.804	91.695	20.280	1.00	0.00	N
ATOM	2300	1HH1	ARG	243	-1.982	92.248	20.521	1.00	0.00	H
ATOM	2301	2HH1	ARG	243	-2.964	91.413	19.313	1.00	0.00	H
ATOM	2302	NH2	ARG	243	-4.792	90.593	20.929	1.00	0.00	N
ATOM	2303	1HH2	ARG	243	-5.455	90.323	21.655	1.00	0.00	H
ATOM	2304	2HH2	ARG	243	-4.952	90.311	19.962	1.00	0.00	H
ATOM	2305	C	ARG	243	0.664	89.434	23.713	1.00	0.00	C
ATOM	2306	O	ARG	243	0.705	88.900	22.609	1.00	0.00	O
ATOM	2307	N	TYR	244	1.727	90.074	24.230	1.00	0.00	N
ATOM	2308	HN	TYR	244	1.663	90.506	25.152	1.00	0.00	H
ATOM	2309	CA	TYR	244	2.951	90.150	23.488	1.00	0.00	C
ATOM	2310	CB	TYR	244	3.980	91.105	24.110	1.00	0.00	C
ATOM	2311	CG	TYR	244	3.527	92.469	23.731	1.00	0.00	C
ATOM	2312	CD1	TYR	244	2.593	93.144	24.481	1.00	0.00	C
ATOM	2313	CD2	TYR	244	4.030	93.057	22.595	1.00	0.00	C
ATOM	2314	CE1	TYR	244	2.180	94.400	24.104	1.00	0.00	C
ATOM	2315	CE2	TYR	244	3.623	94.311	22.214	1.00	0.00	C
ATOM	2316	CZ	TYR	244	2.696	94.984	22.971	1.00	0.00	C
ATOM	2317	OH	TYR	244	2.276	96.272	22.579	1.00	0.00	O
ATOM	2318	HH	TYR	244	1.635	96.738	23.103	1.00	0.00	H
ATOM	2319	C	TYR	244	3.558	88.786	23.367	1.00	0.00	C
ATOM	2320	O	TYR	244	4.095	88.434	22.320	1.00	0.00	O
ATOM	2321	N	ASN	245	3.514	87.968	24.433	1.00	0.00	N
ATOM	2322	HN	ASN	245	3.041	88.247	25.293	1.00	0.00	H
ATOM	2323	CA	ASN	245	4.155	86.687	24.321	1.00	0.00	C
ATOM	2324	CB	ASN	245	4.008	85.819	25.585	1.00	0.00	C
ATOM	2325	CG	ASN	245	5.028	86.277	26.616	1.00	0.00	C
ATOM	2326	OD1	ASN	245	6.233	86.198	26.387	1.00	0.00	O
ATOM	2327	ND2	ASN	245	4.544	86.756	27.792	1.00	0.00	N
ATOM	2328	1HD2	ASN	245	5.228	87.063	28.483	1.00	0.00	H
ATOM	2329	2HD2	ASN	245	3.544	86.822	27.982	1.00	0.00	H
ATOM	2330	C	ASN	245	3.562	85.898	23.195	1.00	0.00	C
ATOM	2331	O	ASN	245	4.231	85.664	22.194	1.00	0.00	O
ATOM	2332	N	LYS	246	2.265	85.553	23.285	1.00	0.00	N
ATOM	2333	HN	LYS	246	1.724	85.891	24.081	1.00	0.00	H
ATOM	2334	CA	LYS	246	1.609	84.730	22.310	1.00	0.00	C
ATOM	2335	CB	LYS	246	0.171	84.350	22.712	1.00	0.00	C
ATOM	2336	CG	LYS	246	0.109	83.458	23.956	1.00	0.00	C
ATOM	2337	CD	LYS	246	-1.297	83.301	24.541	1.00	0.00	C
ATOM	2338	CE	LYS	246	-1.348	82.408	25.784	1.00	0.00	C
ATOM	2339	NZ	LYS	246	-1.041	81.009	25.411	1.00	0.00	N
ATOM	2340	HZ1	LYS	246	-1.075	80.414	26.239	1.00	0.00	H
ATOM	2341	HZ2	LYS	246	-0.151	80.930	24.919	1.00	0.00	H
ATOM	2342	HZ3	LYS	246	-1.652	80.668	24.669	1.00	0.00	H
ATOM	2343	C	LYS	246	1.547	85.444	21.003	1.00	0.00	C
ATOM	2344	O	LYS	246	1.538	84.788	19.964	1.00	0.00	O
ATOM	2345	N	ASN	247	1.440	86.792	20.987	1.00	0.00	N
ATOM	2346	HN	ASN	247	1.459	87.365	21.831	1.00	0.00	H
ATOM	2347	CA	ASN	247	1.297	87.337	19.670	1.00	0.00	C
ATOM	2348	CB	ASN	247	0.675	88.754	19.555	1.00	0.00	C
ATOM	2349	CG	ASN	247	1.495	89.878	20.156	1.00	0.00	C
ATOM	2350	OD1	ASN	247	2.527	89.657	20.778	1.00	0.00	O
ATOM	2351	ND2	ASN	247	1.008	91.135	19.974	1.00	0.00	N
ATOM	2352	1HD2	ASN	247	0.149	91.319	19.456	1.00	0.00	H
ATOM	2353	2HD2	ASN	247	1.560	91.891	20.378	1.00	0.00	H
ATOM	2354	C	ASN	247	2.548	87.173	18.852	1.00	0.00	C
ATOM	2355	O	ASN	247	2.492	86.553	17.794	1.00	0.00	O
ATOM	2356	N	LEU	248	3.725	87.641	19.321	1.00	0.00	N
ATOM	2357	HN	LEU	248	3.773	88.105	20.228	1.00	0.00	H
ATOM	2358	CA	LEU	248	4.909	87.475	18.523	1.00	0.00	C
ATOM	2359	CB	LEU	248	6.165	88.112	19.142	1.00	0.00	C
ATOM	2360	CG	LEU	248	6.183	89.651	19.171	1.00	0.00	C
ATOM	2361	CD1	LEU	248	6.114	90.235	17.751	1.00	0.00	C
ATOM	2362	CD2	LEU	248	5.125	90.222	20.123	1.00	0.00	C
ATOM	2363	C	LEU	248	5.200	86.014	18.424	1.00	0.00	C
ATOM	2364	O	LEU	248	5.497	85.501	17.346	1.00	0.00	O
ATOM	2365	N	GLU	249	5.095	85.293	19.557	1.00	0.00	N



ATOM	2366	HN	GLU	249	4.762	85.729	20.417	1.00	0.00	H
ATOM	2367	CA	GLU	249	5.455	83.909	19.541	1.00	0.00	C
ATOM	2368	CB	GLU	249	5.314	83.180	20.891	1.00	0.00	C
ATOM	2369	CG	GLU	249	6.423	83.510	21.891	1.00	0.00	C
ATOM	2370	CD	GLU	249	6.458	82.393	22.927	1.00	0.00	C
ATOM	2371	OE1	GLU	249	5.366	81.991	23.411	1.00	0.00	O
ATOM	2372	OE2	GLU	249	7.582	81.916	23.235	1.00	0.00	O
ATOM	2373	C	GLU	249	4.610	83.187	18.573	1.00	0.00	C
ATOM	2374	O	GLU	249	5.167	82.522	17.723	1.00	0.00	O
ATOM	2375	N	GLU	250	3.275	83.322	18.599	1.00	0.00	N
ATOM	2376	HN	GLU	250	2.831	83.969	19.251	1.00	0.00	H
ATOM	2377	CA	GLU	250	2.484	82.540	17.693	1.00	0.00	C
ATOM	2378	CB	GLU	250	0.973	82.717	17.919	1.00	0.00	C
ATOM	2379	CG	GLU	250	0.138	81.612	17.270	1.00	0.00	C
ATOM	2380	CD	GLU	250	-1.307	81.774	17.721	1.00	0.00	C
ATOM	2381	OE1	GLU	250	-1.540	82.498	18.725	1.00	0.00	O
ATOM	2382	OE2	GLU	250	-2.199	81.170	17.068	1.00	0.00	O
ATOM	2383	C	GLU	250	2.825	82.938	16.291	1.00	0.00	C
ATOM	2384	O	GLU	250	2.927	82.082	15.414	1.00	0.00	O
ATOM	2385	N	ALA	251	3.054	84.246	16.043	1.00	0.00	N
ATOM	2386	HN	ALA	251	3.084	84.916	16.811	1.00	0.00	H
ATOM	2387	CA	ALA	251	3.255	84.687	14.691	1.00	0.00	C
ATOM	2388	CB	ALA	251	3.529	86.196	14.612	1.00	0.00	C
ATOM	2389	C	ALA	251	4.432	83.988	14.090	1.00	0.00	C
ATOM	2390	O	ALA	251	4.285	83.278	13.100	1.00	0.00	O
ATOM	2391	N	LYS	252	5.613	84.112	14.719	1.00	0.00	N
ATOM	2392	HN	LYS	252	5.656	84.697	15.554	1.00	0.00	H
ATOM	2393	CA	LYS	252	6.814	83.469	14.282	1.00	0.00	C
ATOM	2394	CB	LYS	252	8.072	83.901	15.057	1.00	0.00	C
ATOM	2395	CG	LYS	252	8.579	85.303	14.715	1.00	0.00	C
ATOM	2396	CD	LYS	252	7.675	86.436	15.200	1.00	0.00	C
ATOM	2397	CE	LYS	252	8.219	87.821	14.849	1.00	0.00	C
ATOM	2398	NZ	LYS	252	7.326	88.870	15.383	1.00	0.00	N
ATOM	2399	HZ1	LYS	252	7.689	89.794	15.149	1.00	0.00	H
ATOM	2400	HZ2	LYS	252	7.171	88.764	16.386	1.00	0.00	H
ATOM	2401	HZ3	LYS	252	6.363	88.748	15.068	1.00	0.00	H
ATOM	2402	C	LYS	252	6.625	82.021	14.555	1.00	0.00	C
ATOM	2403	O	LYS	252	7.437	81.207	14.142	1.00	0.00	O
ATOM	2404	N	ARG	253	5.641	81.653	15.388	1.00	0.00	N
ATOM	2405	HN	ARG	253	5.013	82.344	15.799	1.00	0.00	H
ATOM	2406	CA	ARG	253	5.501	80.260	15.681	1.00	0.00	C
ATOM	2407	CB	ARG	253	4.287	79.858	16.548	1.00	0.00	C
ATOM	2408	CG	ARG	253	4.458	79.913	18.066	1.00	0.00	C
ATOM	2409	CD	ARG	253	5.712	79.207	18.582	1.00	0.00	C
ATOM	2410	NE	ARG	253	6.412	80.187	19.456	1.00	0.00	N
ATOM	2411	HE	ARG	253	6.291	80.145	20.468	1.00	0.00	H
ATOM	2412	CZ	ARG	253	7.215	81.141	18.904	1.00	0.00	C
ATOM	2413	NH1	ARG	253	7.473	81.134	17.564	1.00	0.00	N
ATOM	2414	1HH1	ARG	253	7.099	80.388	16.977	1.00	0.00	H
ATOM	2415	2HH1	ARG	253	8.074	81.848	17.151	1.00	0.00	H
ATOM	2416	NH2	ARG	253	7.715	82.138	19.688	1.00	0.00	N
ATOM	2417	1HH2	ARG	253	7.522	82.143	20.690	1.00	0.00	H
ATOM	2418	2HH2	ARG	253	8.316	82.852	19.275	1.00	0.00	H
ATOM	2419	C	ARG	253	5.214	79.618	14.410	1.00	0.00	C
ATOM	2420	O	ARG	253	6.117	79.068	13.808	1.00	0.00	O
ATOM	2421	N	ILE	254	3.992	79.847	13.907	1.00	0.00	N
ATOM	2422	HN	ILE	254	3.369	80.468	14.424	1.00	0.00	H
ATOM	2423	CA	ILE	254	3.513	79.277	12.697	1.00	0.00	C
ATOM	2424	CB	ILE	254	2.065	79.600	12.412	1.00	0.00	C
ATOM	2425	CG1	ILE	254	1.817	81.111	12.244	1.00	0.00	C
ATOM	2426	CG2	ILE	254	1.219	78.971	13.528	1.00	0.00	C
ATOM	2427	CD1	ILE	254	2.225	81.684	10.887	1.00	0.00	C
ATOM	2428	C	ILE	254	4.371	79.801	11.605	1.00	0.00	C
ATOM	2429	O	ILE	254	4.542	79.106	10.617	1.00	0.00	O
ATOM	2430	N	GLY	255	4.856	81.060	11.704	1.00	0.00	N
ATOM	2431	HN	GLY	255	4.645	81.608	12.538	1.00	0.00	H
ATOM	2432	CA	GLY	255	5.664	81.651	10.662	1.00	0.00	C
ATOM	2433	C	GLY	255	7.013	80.999	10.504	1.00	0.00	C
ATOM	2434	O	GLY	255	7.362	80.526	9.425	1.00	0.00	O
ATOM	2435	N	ILE	256	7.797	80.941	11.595	1.00	0.00	N
ATOM	2436	HN	ILE	256	7.431	81.350	12.455	1.00	0.00	H
ATOM	2437	CA	ILE	256	9.104	80.353	11.653	1.00	0.00	C
ATOM	2438	CB	ILE	256	9.803	80.462	12.990	1.00	0.00	C
ATOM	2439	CG1	ILE	256	11.340	80.479	12.847	1.00	0.00	C

ATOM	2440	CG2	ILE	256	9.344	79.272	13.853	1.00	0.00	C
ATOM	2441	CD1	ILE	256	11.977	79.188	12.333	1.00	0.00	C
ATOM	2442	C	ILE	256	8.817	78.932	11.441	1.00	0.00	C
ATOM	2443	O	ILE	256	9.726	78.169	11.185	1.00	0.00	O
ATOM	2444	N	LYS	257	7.583	78.523	11.768	1.00	0.00	N
ATOM	2445	HN	LYS	257	6.961	79.204	12.203	1.00	0.00	H
ATOM	2446	CA	LYS	257	7.073	77.207	11.554	1.00	0.00	C
ATOM	2447	CB	LYS	257	5.977	76.703	12.500	1.00	0.00	C
ATOM	2448	CG	LYS	257	6.629	76.385	13.847	1.00	0.00	C
ATOM	2449	CD	LYS	257	5.692	75.877	14.923	1.00	0.00	C
ATOM	2450	CE	LYS	257	6.401	75.518	16.231	1.00	0.00	C
ATOM	2451	NZ	LYS	257	6.780	76.750	16.959	1.00	0.00	N
ATOM	2452	HZ1	LYS	257	7.253	76.511	17.831	1.00	0.00	H
ATOM	2453	HZ2	LYS	257	5.980	77.363	17.114	1.00	0.00	H
ATOM	2454	HZ3	LYS	257	7.339	77.378	16.382	1.00	0.00	H
ATOM	2455	C	LYS	257	6.676	76.991	10.139	1.00	0.00	C
ATOM	2456	O	LYS	257	6.360	75.871	9.765	1.00	0.00	O
ATOM	2457	N	LYS	258	6.495	78.063	9.357	1.00	0.00	N
ATOM	2458	HN	LYS	258	6.557	78.996	9.765	1.00	0.00	H
ATOM	2459	CA	LYS	258	6.217	77.925	7.967	1.00	0.00	C
ATOM	2460	CB	LYS	258	5.831	79.246	7.292	1.00	0.00	C
ATOM	2461	CG	LYS	258	4.490	79.787	7.782	1.00	0.00	C
ATOM	2462	CD	LYS	258	4.214	81.227	7.353	1.00	0.00	C
ATOM	2463	CE	LYS	258	3.999	81.378	5.847	1.00	0.00	C
ATOM	2464	NZ	LYS	258	3.477	82.729	5.543	1.00	0.00	N
ATOM	2465	HZ1	LYS	258	3.334	82.830	4.538	1.00	0.00	H
ATOM	2466	HZ2	LYS	258	4.076	83.464	5.919	1.00	0.00	H
ATOM	2467	HZ3	LYS	258	2.631	82.940	6.073	1.00	0.00	H
ATOM	2468	C	LYS	258	7.517	77.511	7.440	1.00	0.00	C
ATOM	2469	O	LYS	258	7.594	76.733	6.501	1.00	0.00	O
ATOM	2470	N	ALA	259	8.556	78.135	8.026	1.00	0.00	N
ATOM	2471	HN	ALA	259	8.325	78.898	8.662	1.00	0.00	H
ATOM	2472	CA	ALA	259	9.940	77.850	7.858	1.00	0.00	C
ATOM	2473	CB	ALA	259	10.851	78.903	8.510	1.00	0.00	C
ATOM	2474	C	ALA	259	10.228	76.534	8.517	1.00	0.00	C
ATOM	2475	O	ALA	259	11.129	75.837	8.076	1.00	0.00	O
ATOM	2476	N	ILE	260	9.568	76.186	9.647	1.00	0.00	N
ATOM	2477	HN	ILE	260	8.826	76.777	10.022	1.00	0.00	H
ATOM	2478	CA	ILE	260	9.938	74.965	10.303	1.00	0.00	C
ATOM	2479	CB	ILE	260	9.507	74.705	11.728	1.00	0.00	C
ATOM	2480	CG1	ILE	260	8.010	74.455	11.908	1.00	0.00	C
ATOM	2481	CG2	ILE	260	10.053	75.844	12.591	1.00	0.00	C
ATOM	2482	CD1	ILE	260	7.709	73.724	13.212	1.00	0.00	C
ATOM	2483	C	ILE	260	9.383	73.889	9.476	1.00	0.00	C
ATOM	2484	O	ILE	260	10.074	72.955	9.097	1.00	0.00	O
ATOM	2485	N	THR	261	8.106	74.079	9.124	1.00	0.00	N
ATOM	2486	HN	THR	261	7.653	74.918	9.487	1.00	0.00	H
ATOM	2487	CA	THR	261	7.315	73.239	8.300	1.00	0.00	C
ATOM	2488	CB	THR	261	5.860	73.620	8.260	1.00	0.00	C
ATOM	2489	OG1	THR	261	5.315	73.543	9.566	1.00	0.00	O
ATOM	2490	HG1	THR	261	5.789	74.140	10.133	1.00	0.00	H
ATOM	2491	CG2	THR	261	5.093	72.653	7.343	1.00	0.00	C
ATOM	2492	C	THR	261	7.916	73.392	6.957	1.00	0.00	C
ATOM	2493	O	THR	261	7.488	72.740	6.021	1.00	0.00	O
ATOM	2494	N	ALA	262	8.732	74.448	6.794	1.00	0.00	N
ATOM	2495	HN	ALA	262	8.768	75.123	7.558	1.00	0.00	H
ATOM	2496	CA	ALA	262	9.558	74.721	5.652	1.00	0.00	C
ATOM	2497	CB	ALA	262	10.052	76.161	5.478	1.00	0.00	C
ATOM	2498	C	ALA	262	10.793	73.908	5.681	1.00	0.00	C
ATOM	2499	O	ALA	262	11.388	73.737	4.633	1.00	0.00	O
ATOM	2500	N	ASN	263	11.319	73.590	6.882	1.00	0.00	N
ATOM	2501	HN	ASN	263	10.866	73.961	7.717	1.00	0.00	H
ATOM	2502	CA	ASN	263	12.473	72.764	7.053	1.00	0.00	C
ATOM	2503	CB	ASN	263	12.985	72.751	8.503	1.00	0.00	C
ATOM	2504	CG	ASN	263	14.366	72.114	8.512	1.00	0.00	C
ATOM	2505	OD1	ASN	263	14.586	71.067	7.907	1.00	0.00	O
ATOM	2506	ND2	ASN	263	15.330	72.771	9.211	1.00	0.00	N
ATOM	2507	1HD2	ASN	263	15.147	73.640	9.713	1.00	0.00	H
ATOM	2508	2HD2	ASN	263	16.256	72.344	9.217	1.00	0.00	H
ATOM	2509	C	ASN	263	11.916	71.436	6.738	1.00	0.00	C
ATOM	2510	O	ASN	263	12.523	70.576	6.103	1.00	0.00	O
ATOM	2511	N	ILE	264	10.674	71.278	7.210	1.00	0.00	N
ATOM	2512	HN	ILE	264	10.252	72.024	7.763	1.00	0.00	H
ATOM	2513	CA	ILE	264	9.933	70.101	6.960	1.00	0.00	C

ATOM	2514	CB	ILE	264	8.584	70.146	7.611	1.00	0.00	C
ATOM	2515	CG1	ILE	264	8.742	70.223	9.139	1.00	0.00	C
ATOM	2516	CG2	ILE	264	7.774	68.933	7.130	1.00	0.00	C
ATOM	2517	CD1	ILE	264	9.497	69.031	9.729	1.00	0.00	C
ATOM	2518	C	ILE	264	9.737	70.100	5.491	1.00	0.00	C
ATOM	2519	O	ILE	264	10.065	69.148	4.791	1.00	0.00	O
ATOM	2520	N	SER	265	9.292	71.252	4.978	1.00	0.00	N
ATOM	2521	HN	SER	265	9.141	72.042	5.606	1.00	0.00	H
ATOM	2522	CA	SER	265	9.020	71.420	3.591	1.00	0.00	C
ATOM	2523	CB	SER	265	8.464	72.802	3.200	1.00	0.00	C
ATOM	2524	OG	SER	265	7.077	72.882	3.488	1.00	0.00	O
ATOM	2525	HG	SER	265	6.734	73.734	3.247	1.00	0.00	H
ATOM	2526	C	SER	265	10.317	71.255	2.891	1.00	0.00	C
ATOM	2527	O	SER	265	10.333	71.084	1.678	1.00	0.00	O
ATOM	2528	N	ILE	266	11.429	71.395	3.639	1.00	0.00	N
ATOM	2529	HN	ILE	266	11.314	71.634	4.624	1.00	0.00	H
ATOM	2530	CA	ILE	266	12.762	71.230	3.141	1.00	0.00	C
ATOM	2531	CB	ILE	266	13.880	71.723	4.024	1.00	0.00	C
ATOM	2532	CG1	ILE	266	13.993	73.256	4.016	1.00	0.00	C
ATOM	2533	CG2	ILE	266	15.167	71.016	3.570	1.00	0.00	C
ATOM	2534	CD1	ILE	266	14.879	73.819	5.127	1.00	0.00	C
ATOM	2535	C	ILE	266	13.001	69.795	2.929	1.00	0.00	C
ATOM	2536	O	ILE	266	13.570	69.405	1.913	1.00	0.00	O
ATOM	2537	N	GLY	267	12.571	68.977	3.908	1.00	0.00	N
ATOM	2538	HN	GLY	267	12.117	69.359	4.738	1.00	0.00	H
ATOM	2539	CA	GLY	267	12.759	67.571	3.770	1.00	0.00	C
ATOM	2540	C	GLY	267	12.005	67.265	2.525	1.00	0.00	C
ATOM	2541	O	GLY	267	12.444	66.508	1.662	1.00	0.00	O
ATOM	2542	N	ALA	268	10.851	67.934	2.395	1.00	0.00	N
ATOM	2543	HN	ALA	268	10.557	68.556	3.148	1.00	0.00	H
ATOM	2544	CA	ALA	268	10.020	67.810	1.247	1.00	0.00	C
ATOM	2545	CB	ALA	268	8.737	68.645	1.365	1.00	0.00	C
ATOM	2546	C	ALA	268	10.783	68.295	0.053	1.00	0.00	C
ATOM	2547	O	ALA	268	10.625	67.755	-1.038	1.00	0.00	O
ATOM	2548	N	ALA	269	11.595	69.361	0.194	1.00	0.00	N
ATOM	2549	HN	ALA	269	11.717	69.808	1.103	1.00	0.00	H
ATOM	2550	CA	ALA	269	12.283	69.852	-0.965	1.00	0.00	C
ATOM	2551	CB	ALA	269	13.096	71.122	-0.669	1.00	0.00	C
ATOM	2552	C	ALA	269	13.248	68.821	-1.450	1.00	0.00	C
ATOM	2553	O	ALA	269	13.008	68.210	-2.488	1.00	0.00	O
ATOM	2554	N	PHE	270	14.245	68.469	-0.603	1.00	0.00	N
ATOM	2555	HN	PHE	270	14.242	68.853	0.342	1.00	0.00	H
ATOM	2556	CA	PHE	270	15.304	67.578	-0.980	1.00	0.00	C
ATOM	2557	CB	PHE	270	16.208	67.152	0.194	1.00	0.00	C
ATOM	2558	CG	PHE	270	17.170	68.229	0.548	1.00	0.00	C
ATOM	2559	CD1	PHE	270	18.323	68.370	-0.188	1.00	0.00	C
ATOM	2560	CD2	PHE	270	16.944	69.073	1.611	1.00	0.00	C
ATOM	2561	CE1	PHE	270	19.238	69.347	0.119	1.00	0.00	C
ATOM	2562	CE2	PHE	270	17.857	70.053	1.922	1.00	0.00	C
ATOM	2563	CZ	PHE	270	19.003	70.192	1.177	1.00	0.00	C
ATOM	2564	C	PHE	270	14.691	66.307	-1.460	1.00	0.00	C
ATOM	2565	O	PHE	270	15.132	65.772	-2.472	1.00	0.00	O
ATOM	2566	N	LEU	271	13.702	65.767	-0.720	1.00	0.00	N
ATOM	2567	HN	LEU	271	13.402	66.240	0.133	1.00	0.00	H
ATOM	2568	CA	LEU	271	13.060	64.537	-1.107	1.00	0.00	C
ATOM	2569	CB	LEU	271	12.200	63.868	-0.020	1.00	0.00	C
ATOM	2570	CG	LEU	271	13.004	63.134	1.072	1.00	0.00	C
ATOM	2571	CD1	LEU	271	13.643	64.086	2.092	1.00	0.00	C
ATOM	2572	CD2	LEU	271	12.165	62.021	1.712	1.00	0.00	C
ATOM	2573	C	LEU	271	12.187	64.640	-2.330	1.00	0.00	C
ATOM	2574	O	LEU	271	12.239	63.771	-3.197	1.00	0.00	O
ATOM	2575	N	LEU	272	11.348	65.688	-2.444	1.00	0.00	N
ATOM	2576	HN	LEU	272	11.341	66.407	-1.720	1.00	0.00	H
ATOM	2577	CA	LEU	272	10.462	65.809	-3.572	1.00	0.00	C
ATOM	2578	CB	LEU	272	9.654	67.119	-3.525	1.00	0.00	C
ATOM	2579	CG	LEU	272	8.711	67.336	-4.722	1.00	0.00	C
ATOM	2580	CD1	LEU	272	7.572	66.308	-4.744	1.00	0.00	C
ATOM	2581	CD2	LEU	272	8.202	68.786	-4.765	1.00	0.00	C
ATOM	2582	C	LEU	272	11.331	65.869	-4.780	1.00	0.00	C
ATOM	2583	O	LEU	272	11.103	65.187	-5.778	1.00	0.00	O
ATOM	2584	N	ILE	273	12.379	66.695	-4.675	1.00	0.00	N
ATOM	2585	HN	ILE	273	12.470	67.224	-3.808	1.00	0.00	H
ATOM	2586	CA	ILE	273	13.381	66.900	-5.672	1.00	0.00	C
ATOM	2587	CB	ILE	273	14.355	67.971	-5.285	1.00	0.00	C

ATOM	2588	CG1	ILE	273	13.615	69.307	-5.119	1.00	0.00	C
ATOM	2589	CG2	ILE	273	15.474	68.005	-6.338	1.00	0.00	C
ATOM	2590	CD1	ILE	273	12.844	69.721	-6.370	1.00	0.00	C
ATOM	2591	C	ILE	273	14.132	65.623	-5.810	1.00	0.00	C
ATOM	2592	O	ILE	273	14.739	65.354	-6.844	1.00	0.00	O
ATOM	2593	N	TYR	274	14.203	64.853	-4.713	1.00	0.00	N
ATOM	2594	HN	TYR	274	13.749	65.164	-3.854	1.00	0.00	H
ATOM	2595	CA	TYR	274	14.899	63.609	-4.723	1.00	0.00	C
ATOM	2596	CB	TYR	274	14.924	62.967	-3.320	1.00	0.00	C
ATOM	2597	CG	TYR	274	15.330	61.535	-3.389	1.00	0.00	C
ATOM	2598	CD1	TYR	274	16.616	61.149	-3.689	1.00	0.00	C
ATOM	2599	CD2	TYR	274	14.386	60.564	-3.168	1.00	0.00	C
ATOM	2600	CE1	TYR	274	16.946	59.813	-3.743	1.00	0.00	C
ATOM	2601	CE2	TYR	274	14.705	59.230	-3.218	1.00	0.00	C
ATOM	2602	CZ	TYR	274	15.993	58.851	-3.504	1.00	0.00	C
ATOM	2603	OH	TYR	274	16.330	57.482	-3.558	1.00	0.00	O
ATOM	2604	HH	TYR	274	17.221	57.220	-3.756	1.00	0.00	H
ATOM	2605	C	TYR	274	14.208	62.732	-5.702	1.00	0.00	C
ATOM	2606	O	TYR	274	14.825	62.276	-6.649	1.00	0.00	O
ATOM	2607	N	ALA	275	12.885	62.569	-5.589	1.00	0.00	N
ATOM	2608	HN	ALA	275	12.384	63.060	-4.849	1.00	0.00	H
ATOM	2609	CA	ALA	275	12.156	61.721	-6.483	1.00	0.00	C
ATOM	2610	CB	ALA	275	10.655	61.663	-6.151	1.00	0.00	C
ATOM	2611	C	ALA	275	12.307	62.272	-7.860	1.00	0.00	C
ATOM	2612	O	ALA	275	12.249	61.521	-8.833	1.00	0.00	O
ATOM	2613	N	SER	276	12.448	63.608	-7.982	1.00	0.00	N
ATOM	2614	HN	SER	276	12.453	64.202	-7.153	1.00	0.00	H
ATOM	2615	CA	SER	276	12.591	64.187	-9.286	1.00	0.00	C
ATOM	2616	CB	SER	276	12.715	65.722	-9.328	1.00	0.00	C
ATOM	2617	OG	SER	276	14.071	66.122	-9.202	1.00	0.00	O
ATOM	2618	HG	SER	276	14.147	67.069	-9.228	1.00	0.00	H
ATOM	2619	C	SER	276	13.854	63.640	-9.859	1.00	0.00	C
ATOM	2620	O	SER	276	13.927	63.407	-11.065	1.00	0.00	O
ATOM	2621	N	TYR	277	14.866	63.392	-8.992	1.00	0.00	N
ATOM	2622	HN	TYR	277	14.731	63.583	-7.999	1.00	0.00	H
ATOM	2623	CA	TYR	277	16.121	62.867	-9.440	1.00	0.00	C
ATOM	2624	CB	TYR	277	17.152	62.499	-8.332	1.00	0.00	C
ATOM	2625	CG	TYR	277	17.327	61.014	-8.083	1.00	0.00	C
ATOM	2626	CD1	TYR	277	16.556	60.302	-7.192	1.00	0.00	C
ATOM	2627	CD2	TYR	277	18.305	60.304	-8.741	1.00	0.00	C
ATOM	2628	CE1	TYR	277	16.710	58.962	-6.949	1.00	0.00	C
ATOM	2629	CE2	TYR	277	18.476	58.956	-8.508	1.00	0.00	C
ATOM	2630	CZ	TYR	277	17.684	58.277	-7.618	1.00	0.00	C
ATOM	2631	OH	TYR	277	17.869	56.897	-7.389	1.00	0.00	O
ATOM	2632	HH	TYR	277	17.320	56.427	-6.772	1.00	0.00	H
ATOM	2633	C	TYR	277	15.720	61.599	-10.076	1.00	0.00	C
ATOM	2634	O	TYR	277	16.078	61.367	-11.217	1.00	0.00	O
ATOM	2635	N	ALA	278	14.849	60.818	-9.409	1.00	0.00	N
ATOM	2636	HN	ALA	278	14.475	61.143	-8.518	1.00	0.00	H
ATOM	2637	CA	ALA	278	14.434	59.547	-9.914	1.00	0.00	C
ATOM	2638	CB	ALA	278	13.372	58.869	-9.031	1.00	0.00	C
ATOM	2639	C	ALA	278	13.823	59.775	-11.257	1.00	0.00	C
ATOM	2640	O	ALA	278	14.036	58.993	-12.182	1.00	0.00	O
ATOM	2641	N	LEU	279	13.065	60.875	-11.405	1.00	0.00	N
ATOM	2642	HN	LEU	279	12.982	61.529	-10.627	1.00	0.00	H
ATOM	2643	CA	LEU	279	12.370	61.153	-12.629	1.00	0.00	C
ATOM	2644	CB	LEU	279	11.762	62.563	-12.549	1.00	0.00	C
ATOM	2645	CG	LEU	279	10.840	62.976	-13.704	1.00	0.00	C
ATOM	2646	CD1	LEU	279	9.447	62.345	-13.554	1.00	0.00	C
ATOM	2647	CD2	LEU	279	10.801	64.504	-13.861	1.00	0.00	C
ATOM	2648	C	LEU	279	13.341	61.195	-13.779	1.00	0.00	C
ATOM	2649	O	LEU	279	13.392	60.288	-14.605	1.00	0.00	O
ATOM	2650	N	ALA	280	14.232	62.197	-13.813	1.00	0.00	N
ATOM	2651	HN	ALA	280	14.267	62.874	-13.051	1.00	0.00	H
ATOM	2652	CA	ALA	280	15.136	62.317	-14.922	1.00	0.00	C
ATOM	2653	CB	ALA	280	16.060	63.542	-14.819	1.00	0.00	C
ATOM	2654	C	ALA	280	15.990	61.105	-14.906	1.00	0.00	C
ATOM	2655	O	ALA	280	16.418	60.614	-15.949	1.00	0.00	O
ATOM	2656	N	PHE	281	16.258	60.605	-13.689	1.00	0.00	N
ATOM	2657	HN	PHE	281	15.819	61.037	-12.876	1.00	0.00	H
ATOM	2658	CA	PHE	281	17.132	59.494	-13.485	1.00	0.00	C
ATOM	2659	CB	PHE	281	17.017	58.971	-12.043	1.00	0.00	C
ATOM	2660	CG	PHE	281	18.026	57.963	-11.624	1.00	0.00	C
ATOM	2661	CD1	PHE	281	19.289	58.361	-11.258	1.00	0.00	C

ATOM	2662	CD2	PHE	281	17.708	56.626	-11.574	1.00	0.00	C
ATOM	2663	CE1	PHE	281	20.217	57.439	-10.842	1.00	0.00	C
ATOM	2664	CE2	PHE	281	18.636	55.699	-11.163	1.00	0.00	C
ATOM	2665	CZ	PHE	281	19.895	56.106	-10.793	1.00	0.00	C
ATOM	2666	C	PHE	281	16.652	58.403	-14.358	1.00	0.00	C
ATOM	2667	O	PHE	281	17.219	58.150	-15.412	1.00	0.00	O
ATOM	2668	N	TRP	282	15.501	57.823	-14.017	1.00	0.00	N
ATOM	2669	HN	TRP	282	14.948	58.179	-13.238	1.00	0.00	H
ATOM	2670	CA	TRP	282	15.063	56.696	-14.766	1.00	0.00	C
ATOM	2671	CB	TRP	282	13.996	55.881	-14.036	1.00	0.00	C
ATOM	2672	CG	TRP	282	14.656	55.235	-12.849	1.00	0.00	C
ATOM	2673	CD2	TRP	282	15.570	54.134	-12.949	1.00	0.00	C
ATOM	2674	CD1	TRP	282	14.615	55.584	-11.534	1.00	0.00	C
ATOM	2675	NE1	TRP	282	15.430	54.758	-10.801	1.00	0.00	N
ATOM	2676	HE1	TRP	282	15.568	54.798	-9.791	1.00	0.00	H
ATOM	2677	CE2	TRP	282	16.031	53.865	-11.662	1.00	0.00	C
ATOM	2678	CE3	TRP	282	16.000	53.418	-14.028	1.00	0.00	C
ATOM	2679	CZ2	TRP	282	16.934	52.867	-11.432	1.00	0.00	C
ATOM	2680	CZ3	TRP	282	16.901	52.404	-13.792	1.00	0.00	C
ATOM	2681	CH2	TRP	282	17.359	52.134	-12.518	1.00	0.00	C
ATOM	2682	C	TRP	282	14.634	57.086	-16.133	1.00	0.00	C
ATOM	2683	O	TRP	282	14.853	56.330	-17.076	1.00	0.00	O
ATOM	2684	N	TYR	283	14.009	58.266	-16.298	1.00	0.00	N
ATOM	2685	HN	TYR	283	13.900	58.926	-15.528	1.00	0.00	H
ATOM	2686	CA	TYR	283	13.505	58.550	-17.607	1.00	0.00	C
ATOM	2687	CB	TYR	283	12.690	59.848	-17.685	1.00	0.00	C
ATOM	2688	CG	TYR	283	11.915	59.757	-18.955	1.00	0.00	C
ATOM	2689	CD1	TYR	283	10.718	59.078	-18.968	1.00	0.00	C
ATOM	2690	CD2	TYR	283	12.369	60.324	-20.123	1.00	0.00	C
ATOM	2691	CE1	TYR	283	9.980	58.972	-20.121	1.00	0.00	C
ATOM	2692	CE2	TYR	283	11.635	60.221	-21.283	1.00	0.00	C
ATOM	2693	CZ	TYR	283	10.438	59.545	-21.282	1.00	0.00	C
ATOM	2694	OH	TYR	283	9.683	59.437	-22.468	1.00	0.00	O
ATOM	2695	HH	TYR	283	10.000	59.833	-23.271	1.00	0.00	H
ATOM	2696	C	TYR	283	14.630	58.660	-18.596	1.00	0.00	C
ATOM	2697	O	TYR	283	14.681	57.909	-19.566	1.00	0.00	O
ATOM	2698	N	GLY	284	15.620	59.532	-18.333	1.00	0.00	N
ATOM	2699	HN	GLY	284	15.610	60.054	-17.457	1.00	0.00	H
ATOM	2700	CA	GLY	284	16.690	59.738	-19.267	1.00	0.00	C
ATOM	2701	C	GLY	284	17.377	58.429	-19.417	1.00	0.00	C
ATOM	2702	O	GLY	284	17.948	58.121	-20.462	1.00	0.00	O
ATOM	2703	N	THR	285	17.395	57.655	-18.320	1.00	0.00	N
ATOM	2704	HN	THR	285	16.958	57.996	-17.464	1.00	0.00	H
ATOM	2705	CA	THR	285	18.010	56.366	-18.322	1.00	0.00	C
ATOM	2706	CB	THR	285	17.937	55.685	-16.992	1.00	0.00	C
ATOM	2707	OG1	THR	285	18.839	56.270	-16.065	1.00	0.00	O
ATOM	2708	HG1	THR	285	18.793	55.838	-15.220	1.00	0.00	H
ATOM	2709	CG2	THR	285	18.181	54.186	-17.185	1.00	0.00	C
ATOM	2710	C	THR	285	17.349	55.443	-19.279	1.00	0.00	C
ATOM	2711	O	THR	285	17.997	54.920	-20.177	1.00	0.00	O
ATOM	2712	N	THR	286	16.027	55.267	-19.151	1.00	0.00	N
ATOM	2713	HN	THR	286	15.507	55.844	-18.490	1.00	0.00	H
ATOM	2714	CA	THR	286	15.333	54.287	-19.922	1.00	0.00	C
ATOM	2715	CB	THR	286	13.862	54.243	-19.611	1.00	0.00	C
ATOM	2716	OG1	THR	286	13.235	53.208	-20.354	1.00	0.00	O
ATOM	2717	HG1	THR	286	13.635	52.369	-20.159	1.00	0.00	H
ATOM	2718	CG2	THR	286	13.214	55.602	-19.926	1.00	0.00	C
ATOM	2719	C	THR	286	15.505	54.585	-21.374	1.00	0.00	C
ATOM	2720	O	THR	286	15.851	53.697	-22.151	1.00	0.00	O
ATOM	2721	N	LEU	287	15.322	55.855	-21.777	1.00	0.00	N
ATOM	2722	HN	LEU	287	15.123	56.590	-21.099	1.00	0.00	H
ATOM	2723	CA	LEU	287	15.411	56.157	-23.171	1.00	0.00	C
ATOM	2724	CB	LEU	287	15.181	57.646	-23.483	1.00	0.00	C
ATOM	2725	CG	LEU	287	15.273	57.977	-24.985	1.00	0.00	C
ATOM	2726	CD1	LEU	287	14.140	57.307	-25.777	1.00	0.00	C
ATOM	2727	CD2	LEU	287	15.359	59.493	-25.223	1.00	0.00	C
ATOM	2728	C	LEU	287	16.786	55.798	-23.639	1.00	0.00	C
ATOM	2729	O	LEU	287	16.955	55.111	-24.644	1.00	0.00	O
ATOM	2730	N	VAL	288	17.806	56.213	-22.873	1.00	0.00	N
ATOM	2731	HN	VAL	288	17.589	56.705	-22.006	1.00	0.00	H
ATOM	2732	CA	VAL	288	19.184	56.003	-23.206	1.00	0.00	C
ATOM	2733	CB	VAL	288	20.120	56.881	-22.406	1.00	0.00	C
ATOM	2734	CG1	VAL	288	21.579	56.663	-22.852	1.00	0.00	C
ATOM	2735	CG2	VAL	288	19.665	58.339	-22.588	1.00	0.00	C

ATOM	2736	C	VAL	288	19.512	54.539	-23.046	1.00	0.00	C
ATOM	2737	O	VAL	288	20.651	54.141	-23.249	1.00	0.00	O
ATOM	2738	N	LEU	289	18.627	53.747	-22.413	1.00	0.00	N
ATOM	2739	HN	LEU	289	17.824	54.183	-21.959	1.00	0.00	H
ATOM	2740	CA	LEU	289	18.757	52.313	-22.345	1.00	0.00	C
ATOM	2741	CB	LEU	289	18.205	51.683	-21.055	1.00	0.00	C
ATOM	2742	CG	LEU	289	19.237	51.608	-19.910	1.00	0.00	C
ATOM	2743	CD1	LEU	289	20.358	50.627	-20.280	1.00	0.00	C
ATOM	2744	CD2	LEU	289	19.793	52.978	-19.499	1.00	0.00	C
ATOM	2745	C	LEU	289	18.163	51.585	-23.511	1.00	0.00	C
ATOM	2746	O	LEU	289	18.614	50.495	-23.853	1.00	0.00	O
ATOM	2747	N	SER	290	17.048	52.097	-24.068	1.00	0.00	N
ATOM	2748	HN	SER	290	16.663	52.973	-23.716	1.00	0.00	H
ATOM	2749	CA	SER	290	16.398	51.420	-25.152	1.00	0.00	C
ATOM	2750	CB	SER	290	14.979	51.956	-25.409	1.00	0.00	C
ATOM	2751	OG	SER	290	14.165	51.729	-24.267	1.00	0.00	O
ATOM	2752	HG	SER	290	13.289	52.060	-24.426	1.00	0.00	H
ATOM	2753	C	SER	290	17.184	51.579	-26.415	1.00	0.00	C
ATOM	2754	O	SER	290	17.425	50.604	-27.128	1.00	0.00	O
ATOM	2755	N	GLY	291	17.530	52.838	-26.769	1.00	0.00	N
ATOM	2756	HN	GLY	291	17.289	53.626	-26.168	1.00	0.00	H
ATOM	2757	CA	GLY	291	18.240	53.055	-27.998	1.00	0.00	C
ATOM	2758	C	GLY	291	19.681	52.626	-27.974	1.00	0.00	C
ATOM	2759	O	GLY	291	20.070	51.680	-28.651	1.00	0.00	O
ATOM	2760	N	GLU	292	20.499	53.253	-27.112	1.00	0.00	N
ATOM	2761	HN	GLU	292	20.097	53.902	-26.435	1.00	0.00	H
ATOM	2762	CA	GLU	292	21.921	53.041	-27.111	1.00	0.00	C
ATOM	2763	CB	GLU	292	22.681	54.368	-27.283	1.00	0.00	C
ATOM	2764	CG	GLU	292	24.202	54.253	-27.291	1.00	0.00	C
ATOM	2765	CD	GLU	292	24.762	55.668	-27.238	1.00	0.00	C
ATOM	2766	OE1	GLU	292	24.320	56.441	-26.346	1.00	0.00	O
ATOM	2767	OE2	GLU	292	25.631	55.997	-28.089	1.00	0.00	O
ATOM	2768	C	GLU	292	22.260	52.532	-25.757	1.00	0.00	C
ATOM	2769	O	GLU	292	21.357	52.439	-24.934	1.00	0.00	O
ATOM	2770	N	TYR	293	23.530	52.100	-25.544	1.00	0.00	N
ATOM	2771	HN	TYR	293	24.143	52.012	-26.354	1.00	0.00	H
ATOM	2772	CA	TYR	293	24.072	51.757	-24.250	1.00	0.00	C
ATOM	2773	CB	TYR	293	24.426	53.044	-23.472	1.00	0.00	C
ATOM	2774	CG	TYR	293	25.179	52.751	-22.221	1.00	0.00	C
ATOM	2775	CD1	TYR	293	26.485	52.323	-22.283	1.00	0.00	C
ATOM	2776	CD2	TYR	293	24.601	52.947	-20.988	1.00	0.00	C
ATOM	2777	CE1	TYR	293	27.193	52.063	-21.135	1.00	0.00	C
ATOM	2778	CE2	TYR	293	25.305	52.690	-19.835	1.00	0.00	C
ATOM	2779	CZ	TYR	293	26.603	52.243	-19.908	1.00	0.00	C
ATOM	2780	OH	TYR	293	27.330	51.976	-18.729	1.00	0.00	O
ATOM	2781	HH	TYR	293	26.922	52.101	-17.880	1.00	0.00	H
ATOM	2782	C	TYR	293	23.068	50.942	-23.475	1.00	0.00	C
ATOM	2783	O	TYR	293	22.794	51.241	-22.314	1.00	0.00	O
ATOM	2784	N	SER	294	22.502	49.879	-24.093	1.00	0.00	N
ATOM	2785	HN	SER	294	22.855	49.573	-25.000	1.00	0.00	H
ATOM	2786	CA	SER	294	21.402	49.175	-23.478	1.00	0.00	C
ATOM	2787	CB	SER	294	20.560	48.392	-24.501	1.00	0.00	C
ATOM	2788	OG	SER	294	20.109	49.249	-25.539	1.00	0.00	O
ATOM	2789	HG	SER	294	19.589	48.766	-26.170	1.00	0.00	H
ATOM	2790	C	SER	294	21.901	48.144	-22.507	1.00	0.00	C
ATOM	2791	O	SER	294	21.810	46.943	-22.762	1.00	0.00	O
ATOM	2792	N	ILE	295	22.521	48.609	-21.409	1.00	0.00	N
ATOM	2793	HN	ILE	295	22.662	49.618	-21.362	1.00	0.00	H
ATOM	2794	CA	ILE	295	23.008	47.842	-20.292	1.00	0.00	C
ATOM	2795	CB	ILE	295	24.312	48.397	-19.809	1.00	0.00	C
ATOM	2796	CG1	ILE	295	24.260	49.933	-19.851	1.00	0.00	C
ATOM	2797	CG2	ILE	295	25.434	47.789	-20.671	1.00	0.00	C
ATOM	2798	CD1	ILE	295	23.076	50.564	-19.131	1.00	0.00	C
ATOM	2799	C	ILE	295	22.080	47.517	-19.137	1.00	0.00	C
ATOM	2800	O	ILE	295	22.170	46.433	-18.560	1.00	0.00	O
ATOM	2801	N	GLY	296	21.231	48.471	-18.679	1.00	0.00	N
ATOM	2802	HN	GLY	296	21.121	49.338	-19.205	1.00	0.00	H
ATOM	2803	CA	GLY	296	20.477	48.281	-17.456	1.00	0.00	C
ATOM	2804	C	GLY	296	21.481	48.570	-16.369	1.00	0.00	C
ATOM	2805	O	GLY	296	21.260	48.310	-15.185	1.00	0.00	O
ATOM	2806	N	GLN	297	22.682	48.963	-16.843	1.00	0.00	N
ATOM	2807	HN	GLN	297	22.729	48.989	-17.862	1.00	0.00	H
ATOM	2808	CA	GLN	297	23.903	49.351	-16.204	1.00	0.00	C
ATOM	2809	CB	GLN	297	25.173	48.851	-16.901	1.00	0.00	C

ATOM	2810	CG	GLN	297	26.293	48.803	-15.870	1.00	0.00	C
ATOM	2811	CD	GLN	297	25.663	48.086	-14.677	1.00	0.00	C
ATOM	2812	OE1	GLN	297	25.311	46.910	-14.758	1.00	0.00	O
ATOM	2813	NE2	GLN	297	25.477	48.821	-13.549	1.00	0.00	N
ATOM	2814	1HE2	GLN	297	25.769	49.796	-13.482	1.00	0.00	H
ATOM	2815	2HE2	GLN	297	25.056	48.342	-12.753	1.00	0.00	H
ATOM	2816	C	GLN	297	24.026	50.815	-15.950	1.00	0.00	C
ATOM	2817	O	GLN	297	24.968	51.251	-15.295	1.00	0.00	O
ATOM	2818	N	VAL	298	23.148	51.653	-16.531	1.00	0.00	N
ATOM	2819	HN	VAL	298	22.420	51.280	-17.140	1.00	0.00	H
ATOM	2820	CA	VAL	298	23.227	53.073	-16.300	1.00	0.00	C
ATOM	2821	CB	VAL	298	22.134	53.827	-16.977	1.00	0.00	C
ATOM	2822	CG1	VAL	298	22.415	53.879	-18.488	1.00	0.00	C
ATOM	2823	CG2	VAL	298	20.840	53.078	-16.642	1.00	0.00	C
ATOM	2824	C	VAL	298	23.107	53.270	-14.824	1.00	0.00	C
ATOM	2825	O	VAL	298	23.560	54.273	-14.274	1.00	0.00	O
ATOM	2826	N	LEU	299	22.508	52.272	-14.152	1.00	0.00	N
ATOM	2827	HN	LEU	299	22.190	51.460	-14.682	1.00	0.00	H
ATOM	2828	CA	LEU	299	22.291	52.280	-12.746	1.00	0.00	C
ATOM	2829	CB	LEU	299	21.934	50.869	-12.250	1.00	0.00	C
ATOM	2830	CG	LEU	299	21.709	50.756	-10.734	1.00	0.00	C
ATOM	2831	CD1	LEU	299	20.449	51.518	-10.297	1.00	0.00	C
ATOM	2832	CD2	LEU	299	21.718	49.285	-10.284	1.00	0.00	C
ATOM	2833	C	LEU	299	23.553	52.675	-12.049	1.00	0.00	C
ATOM	2834	O	LEU	299	23.563	53.742	-11.442	1.00	0.00	O
ATOM	2835	N	THR	300	24.669	51.929	-12.221	1.00	0.00	N
ATOM	2836	HN	THR	300	24.670	51.153	-12.883	1.00	0.00	H
ATOM	2837	CA	THR	300	25.856	52.236	-11.465	1.00	0.00	C
ATOM	2838	CB	THR	300	27.045	51.423	-11.829	1.00	0.00	C
ATOM	2839	OG1	THR	300	26.772	50.073	-11.535	1.00	0.00	O
ATOM	2840	HG1	THR	300	27.532	49.553	-11.768	1.00	0.00	H
ATOM	2841	CG2	THR	300	28.262	51.918	-11.027	1.00	0.00	C
ATOM	2842	C	THR	300	26.267	53.646	-11.679	1.00	0.00	C
ATOM	2843	O	THR	300	26.600	54.337	-10.718	1.00	0.00	O
ATOM	2844	N	VAL	301	26.253	54.114	-12.935	1.00	0.00	N
ATOM	2845	HN	VAL	301	25.919	53.534	-13.704	1.00	0.00	H
ATOM	2846	CA	VAL	301	26.718	55.449	-13.172	1.00	0.00	C
ATOM	2847	CB	VAL	301	26.672	55.804	-14.625	1.00	0.00	C
ATOM	2848	CG1	VAL	301	27.332	57.180	-14.818	1.00	0.00	C
ATOM	2849	CG2	VAL	301	27.277	54.648	-15.436	1.00	0.00	C
ATOM	2850	C	VAL	301	25.857	56.456	-12.455	1.00	0.00	C
ATOM	2851	O	VAL	301	26.268	56.998	-11.433	1.00	0.00	O
ATOM	2852	N	PHE	302	24.586	56.622	-12.889	1.00	0.00	N
ATOM	2853	HN	PHE	302	24.220	55.995	-13.605	1.00	0.00	H
ATOM	2854	CA	PHE	302	23.734	57.663	-12.365	1.00	0.00	C
ATOM	2855	CB	PHE	302	22.296	57.578	-12.906	1.00	0.00	C
ATOM	2856	CG	PHE	302	22.224	57.951	-14.348	1.00	0.00	C
ATOM	2857	CD1	PHE	302	22.574	57.052	-15.327	1.00	0.00	C
ATOM	2858	CD2	PHE	302	21.775	59.198	-14.721	1.00	0.00	C
ATOM	2859	CE1	PHE	302	22.495	57.398	-16.655	1.00	0.00	C
ATOM	2860	CE2	PHE	302	21.694	59.550	-16.048	1.00	0.00	C
ATOM	2861	CZ	PHE	302	22.056	58.649	-17.019	1.00	0.00	C
ATOM	2862	C	PHE	302	23.636	57.512	-10.875	1.00	0.00	C
ATOM	2863	O	PHE	302	23.872	58.461	-10.130	1.00	0.00	O
ATOM	2864	N	PHE	303	23.361	56.290	-10.394	1.00	0.00	N
ATOM	2865	HN	PHE	303	23.273	55.514	-11.051	1.00	0.00	H
ATOM	2866	CA	PHE	303	23.185	56.029	-8.994	1.00	0.00	C
ATOM	2867	CB	PHE	303	22.982	54.518	-8.759	1.00	0.00	C
ATOM	2868	CG	PHE	303	22.684	54.209	-7.330	1.00	0.00	C
ATOM	2869	CD1	PHE	303	21.406	54.353	-6.841	1.00	0.00	C
ATOM	2870	CD2	PHE	303	23.674	53.770	-6.480	1.00	0.00	C
ATOM	2871	CE1	PHE	303	21.118	54.066	-5.527	1.00	0.00	C
ATOM	2872	CE2	PHE	303	23.392	53.480	-5.165	1.00	0.00	C
ATOM	2873	CZ	PHE	303	22.112	53.627	-4.685	1.00	0.00	C
ATOM	2874	C	PHE	303	24.415	56.492	-8.263	1.00	0.00	C
ATOM	2875	O	PHE	303	24.315	57.102	-7.199	1.00	0.00	O
ATOM	2876	N	SER	304	25.609	56.209	-8.817	1.00	0.00	N
ATOM	2877	HN	SER	304	25.624	55.711	-9.707	1.00	0.00	H
ATOM	2878	CA	SER	304	26.865	56.573	-8.218	1.00	0.00	C
ATOM	2879	CB	SER	304	28.072	55.995	-8.976	1.00	0.00	C
ATOM	2880	OG	SER	304	29.281	56.384	-8.341	1.00	0.00	O
ATOM	2881	HG	SER	304	30.027	56.027	-8.809	1.00	0.00	H
ATOM	2882	C	SER	304	27.041	58.065	-8.166	1.00	0.00	C
ATOM	2883	O	SER	304	27.529	58.590	-7.167	1.00	0.00	O

ATOM	2884	N	VAL	305	26.650	58.805	-9.223	1.00	0.00	N
ATOM	2885	HN	VAL	305	26.226	58.362	-10.038	1.00	0.00	H
ATOM	2886	CA	VAL	305	26.842	60.231	-9.181	1.00	0.00	C
ATOM	2887	CB	VAL	305	26.369	60.954	-10.415	1.00	0.00	C
ATOM	2888	CG1	VAL	305	24.834	61.002	-10.428	1.00	0.00	C
ATOM	2889	CG2	VAL	305	27.019	62.347	-10.430	1.00	0.00	C
ATOM	2890	C	VAL	305	26.046	60.731	-8.013	1.00	0.00	C
ATOM	2891	O	VAL	305	26.446	61.659	-7.310	1.00	0.00	O
ATOM	2892	N	LEU	306	24.901	60.075	-7.757	1.00	0.00	N
ATOM	2893	HN	LEU	306	24.653	59.279	-8.344	1.00	0.00	H
ATOM	2894	CA	LEU	306	24.015	60.447	-6.695	1.00	0.00	C
ATOM	2895	CB	LEU	306	22.858	59.442	-6.551	1.00	0.00	C
ATOM	2896	CG	LEU	306	21.779	59.861	-5.538	1.00	0.00	C
ATOM	2897	CD1	LEU	306	20.890	60.977	-6.112	1.00	0.00	C
ATOM	2898	CD2	LEU	306	20.987	58.652	-5.018	1.00	0.00	C
ATOM	2899	C	LEU	306	24.795	60.377	-5.418	1.00	0.00	C
ATOM	2900	O	LEU	306	24.730	61.279	-4.584	1.00	0.00	O
ATOM	2901	N	ILE	307	25.611	59.319	-5.266	1.00	0.00	N
ATOM	2902	HN	ILE	307	25.680	58.633	-6.018	1.00	0.00	H
ATOM	2903	CA	ILE	307	26.386	59.129	-4.076	1.00	0.00	C
ATOM	2904	CB	ILE	307	27.308	57.948	-4.155	1.00	0.00	C
ATOM	2905	CG1	ILE	307	26.505	56.648	-4.334	1.00	0.00	C
ATOM	2906	CG2	ILE	307	28.187	57.958	-2.893	1.00	0.00	C
ATOM	2907	CD1	ILE	307	25.537	56.361	-3.187	1.00	0.00	C
ATOM	2908	C	ILE	307	27.227	60.350	-3.923	1.00	0.00	C
ATOM	2909	O	ILE	307	27.485	60.802	-2.808	1.00	0.00	O
ATOM	2910	N	GLY	308	27.684	60.913	-5.054	1.00	0.00	N
ATOM	2911	HN	GLY	308	27.420	60.515	-5.955	1.00	0.00	H
ATOM	2912	CA	GLY	308	28.536	62.064	-5.013	1.00	0.00	C
ATOM	2913	C	GLY	308	27.852	63.216	-4.332	1.00	0.00	C
ATOM	2914	O	GLY	308	28.454	63.897	-3.503	1.00	0.00	O
ATOM	2915	N	ALA	309	26.571	63.480	-4.645	1.00	0.00	N
ATOM	2916	HN	ALA	309	26.047	62.879	-5.281	1.00	0.00	H
ATOM	2917	CA	ALA	309	25.970	64.639	-4.051	1.00	0.00	C
ATOM	2918	CB	ALA	309	24.525	64.873	-4.521	1.00	0.00	C
ATOM	2919	C	ALA	309	25.940	64.475	-2.562	1.00	0.00	C
ATOM	2920	O	ALA	309	26.381	65.352	-1.820	1.00	0.00	O
ATOM	2921	N	PHE	310	25.501	63.296	-2.087	1.00	0.00	N
ATOM	2922	HN	PHE	310	25.293	62.539	-2.738	1.00	0.00	H
ATOM	2923	CA	PHE	310	25.321	63.086	-0.680	1.00	0.00	C
ATOM	2924	CB	PHE	310	24.730	61.703	-0.364	1.00	0.00	C
ATOM	2925	CG	PHE	310	23.366	61.714	-0.970	1.00	0.00	C
ATOM	2926	CD1	PHE	310	23.184	61.347	-2.283	1.00	0.00	C
ATOM	2927	CD2	PHE	310	22.272	62.109	-0.236	1.00	0.00	C
ATOM	2928	CE1	PHE	310	21.931	61.363	-2.849	1.00	0.00	C
ATOM	2929	CE2	PHE	310	21.016	62.127	-0.797	1.00	0.00	C
ATOM	2930	CZ	PHE	310	20.842	61.752	-2.106	1.00	0.00	C
ATOM	2931	C	PHE	310	26.628	63.258	0.027	1.00	0.00	C
ATOM	2932	O	PHE	310	26.689	63.850	1.104	1.00	0.00	O
ATOM	2933	N	SER	311	27.719	62.754	-0.568	1.00	0.00	N
ATOM	2934	HN	SER	311	27.636	62.292	-1.473	1.00	0.00	H
ATOM	2935	CA	SER	311	29.001	62.862	0.063	1.00	0.00	C
ATOM	2936	CB	SER	311	30.072	62.081	-0.714	1.00	0.00	C
ATOM	2937	OG	SER	311	29.923	62.306	-2.108	1.00	0.00	O
ATOM	2938	HG	SER	311	30.585	61.823	-2.588	1.00	0.00	H
ATOM	2939	C	SER	311	29.373	64.307	0.216	1.00	0.00	C
ATOM	2940	O	SER	311	30.062	64.679	1.166	1.00	0.00	O
ATOM	2941	N	VAL	312	28.900	65.175	-0.696	1.00	0.00	N
ATOM	2942	HN	VAL	312	28.328	64.840	-1.471	1.00	0.00	H
ATOM	2943	CA	VAL	312	29.201	66.573	-0.577	1.00	0.00	C
ATOM	2944	CB	VAL	312	28.577	67.397	-1.662	1.00	0.00	C
ATOM	2945	CG1	VAL	312	28.871	68.879	-1.374	1.00	0.00	C
ATOM	2946	CG2	VAL	312	29.093	66.899	-3.022	1.00	0.00	C
ATOM	2947	C	VAL	312	28.610	67.031	0.712	1.00	0.00	C
ATOM	2948	O	VAL	312	29.160	67.893	1.398	1.00	0.00	O
ATOM	2949	N	GLY	313	27.440	66.473	1.065	1.00	0.00	N
ATOM	2950	HN	GLY	313	27.011	65.754	0.482	1.00	0.00	H
ATOM	2951	CA	GLY	313	26.808	66.904	2.271	1.00	0.00	C
ATOM	2952	C	GLY	313	27.672	66.579	3.451	1.00	0.00	C
ATOM	2953	O	GLY	313	27.964	67.447	4.265	1.00	0.00	O
ATOM	2954	N	GLN	314	28.174	65.340	3.550	1.00	0.00	N
ATOM	2955	HN	GLN	314	28.035	64.672	2.791	1.00	0.00	H
ATOM	2956	CA	GLN	314	28.907	64.951	4.723	1.00	0.00	C
ATOM	2957	CB	GLN	314	29.395	63.497	4.640	1.00	0.00	C



ATOM	2958	CG	GLN	314	29.869	62.951	5.982	1.00	0.00	C
ATOM	2959	CD	GLN	314	28.622	62.775	6.834	1.00	0.00	C
ATOM	2960	OE1	GLN	314	27.650	63.516	6.694	1.00	0.00	O
ATOM	2961	NE2	GLN	314	28.641	61.757	7.736	1.00	0.00	N
ATOM	2962	1HE2	GLN	314	27.804	61.639	8.308	1.00	0.00	H
ATOM	2963	2HE2	GLN	314	29.447	61.143	7.852	1.00	0.00	H
ATOM	2964	C	GLN	314	30.106	65.826	4.845	1.00	0.00	C
ATOM	2965	O	GLN	314	30.501	66.232	5.940	1.00	0.00	O
ATOM	2966	N	ALA	315	30.704	66.160	3.695	1.00	0.00	N
ATOM	2967	HN	ALA	315	30.312	65.843	2.808	1.00	0.00	H
ATOM	2968	CA	ALA	315	31.885	66.956	3.704	1.00	0.00	C
ATOM	2969	CB	ALA	315	32.393	67.270	2.288	1.00	0.00	C
ATOM	2970	C	ALA	315	31.566	68.258	4.372	1.00	0.00	C
ATOM	2971	O	ALA	315	32.379	68.777	5.134	1.00	0.00	O
ATOM	2972	N	SER	316	30.363	68.811	4.123	1.00	0.00	N
ATOM	2973	HN	SER	316	29.678	68.300	3.566	1.00	0.00	H
ATOM	2974	CA	SER	316	30.034	70.114	4.635	1.00	0.00	C
ATOM	2975	CB	SER	316	28.635	70.599	4.205	1.00	0.00	C
ATOM	2976	OG	SER	316	28.579	70.742	2.793	1.00	0.00	O
ATOM	2977	HG	SER	316	27.717	71.041	2.528	1.00	0.00	H
ATOM	2978	C	SER	316	30.126	70.166	6.135	1.00	0.00	C
ATOM	2979	O	SER	316	30.834	71.037	6.640	1.00	0.00	O
ATOM	2980	N	PRO	317	29.494	69.323	6.914	1.00	0.00	N
ATOM	2981	CA	PRO	317	29.686	69.501	8.323	1.00	0.00	C
ATOM	2982	CD	PRO	317	28.129	68.901	6.648	1.00	0.00	C
ATOM	2983	CB	PRO	317	28.632	68.639	9.009	1.00	0.00	C
ATOM	2984	CG	PRO	317	27.459	68.692	8.017	1.00	0.00	C
ATOM	2985	C	PRO	317	31.087	69.293	8.795	1.00	0.00	C
ATOM	2986	O	PRO	317	31.484	69.934	9.766	1.00	0.00	O
ATOM	2987	N	SER	318	31.865	68.416	8.141	1.00	0.00	N
ATOM	2988	HN	SER	318	31.512	67.911	7.328	1.00	0.00	H
ATOM	2989	CA	SER	318	33.202	68.204	8.609	1.00	0.00	C
ATOM	2990	CB	SER	318	33.950	67.126	7.806	1.00	0.00	C
ATOM	2991	OG	SER	318	33.319	65.864	7.966	1.00	0.00	O
ATOM	2992	HG	SER	318	33.781	65.198	7.470	1.00	0.00	H
ATOM	2993	C	SER	318	33.948	69.492	8.451	1.00	0.00	C
ATOM	2994	O	SER	318	34.712	69.894	9.328	1.00	0.00	O
ATOM	2995	N	ILE	319	33.713	70.186	7.324	1.00	0.00	N
ATOM	2996	HN	ILE	319	33.017	69.832	6.667	1.00	0.00	H
ATOM	2997	CA	ILE	319	34.402	71.405	7.008	1.00	0.00	C
ATOM	2998	CB	ILE	319	34.004	71.959	5.676	1.00	0.00	C
ATOM	2999	CG1	ILE	319	34.393	70.975	4.561	1.00	0.00	C
ATOM	3000	CG2	ILE	319	34.645	73.349	5.531	1.00	0.00	C
ATOM	3001	CD1	ILE	319	33.749	71.288	3.214	1.00	0.00	C
ATOM	3002	C	ILE	319	34.070	72.429	8.036	1.00	0.00	C
ATOM	3003	O	ILE	319	34.952	73.152	8.499	1.00	0.00	O
ATOM	3004	N	GLU	320	32.785	72.496	8.435	1.00	0.00	N
ATOM	3005	HN	GLU	320	32.100	71.840	8.058	1.00	0.00	H
ATOM	3006	CA	GLU	320	32.378	73.485	9.386	1.00	0.00	C
ATOM	3007	CB	GLU	320	30.918	73.333	9.841	1.00	0.00	C
ATOM	3008	CG	GLU	320	30.511	74.401	10.858	1.00	0.00	C
ATOM	3009	CD	GLU	320	29.171	74.009	11.464	1.00	0.00	C
ATOM	3010	OE1	GLU	320	28.683	72.890	11.155	1.00	0.00	O
ATOM	3011	OE2	GLU	320	28.621	74.824	12.251	1.00	0.00	O
ATOM	3012	C	GLU	320	33.210	73.284	10.604	1.00	0.00	C
ATOM	3013	O	GLU	320	33.705	74.238	11.199	1.00	0.00	O
ATOM	3014	N	ALA	321	33.433	72.017	10.976	1.00	0.00	N
ATOM	3015	HN	ALA	321	33.081	71.244	10.411	1.00	0.00	H
ATOM	3016	CA	ALA	321	34.169	71.759	12.173	1.00	0.00	C
ATOM	3017	CB	ALA	321	34.339	70.258	12.439	1.00	0.00	C
ATOM	3018	C	ALA	321	35.538	72.361	12.062	1.00	0.00	C
ATOM	3019	O	ALA	321	36.002	73.019	12.992	1.00	0.00	O
ATOM	3020	N	PHE	322	36.209	72.194	10.907	1.00	0.00	N
ATOM	3021	HN	PHE	322	35.757	71.727	10.121	1.00	0.00	H
ATOM	3022	CA	PHE	322	37.558	72.670	10.776	1.00	0.00	C
ATOM	3023	CB	PHE	322	38.133	72.433	9.366	1.00	0.00	C
ATOM	3024	CG	PHE	322	39.566	72.856	9.353	1.00	0.00	C
ATOM	3025	CD1	PHE	322	39.920	74.181	9.225	1.00	0.00	C
ATOM	3026	CD2	PHE	322	40.565	71.915	9.455	1.00	0.00	C
ATOM	3027	CE1	PHE	322	41.240	74.563	9.212	1.00	0.00	C
ATOM	3028	CE2	PHE	322	41.888	72.289	9.440	1.00	0.00	C
ATOM	3029	CZ	PHE	322	42.228	73.615	9.320	1.00	0.00	C
ATOM	3030	C	PHE	322	37.582	74.146	11.008	1.00	0.00	C
ATOM	3031	O	PHE	322	38.311	74.634	11.867	1.00	0.00	O

ATOM	3032	N	ALA	323	36.732	74.895	10.288	1.00	0.00	N
ATOM	3033	HN	ALA	323	36.042	74.438	9.691	1.00	0.00	H
ATOM	3034	CA	ALA	323	36.778	76.328	10.344	1.00	0.00	C
ATOM	3035	CB	ALA	323	35.713	76.989	9.452	1.00	0.00	C
ATOM	3036	C	ALA	323	36.531	76.786	11.746	1.00	0.00	C
ATOM	3037	O	ALA	323	37.187	77.715	12.216	1.00	0.00	O
ATOM	3038	N	ASN	324	35.581	76.144	12.455	1.00	0.00	N
ATOM	3039	HN	ASN	324	35.100	75.345	12.043	1.00	0.00	H
ATOM	3040	CA	ASN	324	35.237	76.570	13.784	1.00	0.00	C
ATOM	3041	CB	ASN	324	34.138	75.707	14.434	1.00	0.00	C
ATOM	3042	CG	ASN	324	32.816	75.937	13.717	1.00	0.00	C
ATOM	3043	OD1	ASN	324	32.778	76.206	12.518	1.00	0.00	O
ATOM	3044	ND2	ASN	324	31.693	75.823	14.475	1.00	0.00	N
ATOM	3045	1HD2	ASN	324	30.807	75.977	13.994	1.00	0.00	H
ATOM	3046	2HD2	ASN	324	31.725	75.600	15.470	1.00	0.00	H
ATOM	3047	C	ASN	324	36.431	76.436	14.670	1.00	0.00	C
ATOM	3048	O	ASN	324	36.784	77.366	15.394	1.00	0.00	O
ATOM	3049	N	ALA	325	37.104	75.273	14.610	1.00	0.00	N
ATOM	3050	HN	ALA	325	36.813	74.560	13.941	1.00	0.00	H
ATOM	3051	CA	ALA	325	38.221	75.016	15.467	1.00	0.00	C
ATOM	3052	CB	ALA	325	38.837	73.627	15.234	1.00	0.00	C
ATOM	3053	C	ALA	325	39.269	76.029	15.172	1.00	0.00	C
ATOM	3054	O	ALA	325	39.938	76.511	16.084	1.00	0.00	O
ATOM	3055	N	ARG	326	39.452	76.363	13.882	1.00	0.00	N
ATOM	3056	HN	ARG	326	38.872	75.946	13.154	1.00	0.00	H
ATOM	3057	CA	ARG	326	40.468	77.309	13.541	1.00	0.00	C
ATOM	3058	CB	ARG	326	40.585	77.549	12.027	1.00	0.00	C
ATOM	3059	CG	ARG	326	41.839	78.333	11.629	1.00	0.00	C
ATOM	3060	CD	ARG	326	42.037	78.428	10.115	1.00	0.00	C
ATOM	3061	NE	ARG	326	41.794	79.840	9.707	1.00	0.00	N
ATOM	3062	HE	ARG	326	42.164	80.603	10.273	1.00	0.00	H
ATOM	3063	CZ	ARG	326	41.078	80.116	8.578	1.00	0.00	C
ATOM	3064	NH1	ARG	326	40.442	79.110	7.909	1.00	0.00	N
ATOM	3065	1HH1	ARG	326	40.502	78.151	8.252	1.00	0.00	H
ATOM	3066	2HH1	ARG	326	39.907	79.316	7.065	1.00	0.00	H
ATOM	3067	NH2	ARG	326	40.998	81.400	8.119	1.00	0.00	N
ATOM	3068	1HH2	ARG	326	41.473	82.152	8.619	1.00	0.00	H
ATOM	3069	2HH2	ARG	326	40.463	81.606	7.275	1.00	0.00	H
ATOM	3070	C	ARG	326	40.147	78.621	14.173	1.00	0.00	C
ATOM	3071	O	ARG	326	40.952	79.147	14.937	1.00	0.00	O
ATOM	3072	N	GLY	327	38.920	79.133	13.954	1.00	0.00	N
ATOM	3073	HN	GLY	327	38.226	78.584	13.447	1.00	0.00	H
ATOM	3074	CA	GLY	327	38.582	80.445	14.428	1.00	0.00	C
ATOM	3075	C	GLY	327	38.774	80.466	15.905	1.00	0.00	C
ATOM	3076	O	GLY	327	39.327	81.418	16.457	1.00	0.00	O
ATOM	3077	N	ALA	328	38.335	79.397	16.588	1.00	0.00	N
ATOM	3078	HN	ALA	328	37.921	78.595	16.113	1.00	0.00	H
ATOM	3079	CA	ALA	328	38.473	79.431	18.005	1.00	0.00	C
ATOM	3080	CB	ALA	328	37.875	78.187	18.684	1.00	0.00	C
ATOM	3081	C	ALA	328	39.919	79.491	18.379	1.00	0.00	C
ATOM	3082	O	ALA	328	40.355	80.494	18.937	1.00	0.00	O
ATOM	3083	N	ALA	329	40.726	78.481	17.982	1.00	0.00	N
ATOM	3084	HN	ALA	329	40.371	77.743	17.373	1.00	0.00	H
ATOM	3085	CA	ALA	329	42.088	78.463	18.430	1.00	0.00	C
ATOM	3086	CB	ALA	329	42.923	77.300	17.872	1.00	0.00	C
ATOM	3087	C	ALA	329	42.762	79.659	17.922	1.00	0.00	C
ATOM	3088	O	ALA	329	43.040	80.516	18.723	1.00	0.00	O
ATOM	3089	N	TYR	330	42.834	79.879	16.605	1.00	0.00	N
ATOM	3090	HN	TYR	330	42.267	79.311	15.975	1.00	0.00	H
ATOM	3091	CA	TYR	330	43.688	80.893	16.054	1.00	0.00	C
ATOM	3092	CB	TYR	330	43.493	80.971	14.529	1.00	0.00	C
ATOM	3093	CG	TYR	330	43.916	82.314	14.062	1.00	0.00	C
ATOM	3094	CD1	TYR	330	45.226	82.593	13.753	1.00	0.00	C
ATOM	3095	CD2	TYR	330	42.968	83.302	13.944	1.00	0.00	C
ATOM	3096	CE1	TYR	330	45.582	83.851	13.327	1.00	0.00	C
ATOM	3097	CE2	TYR	330	43.319	84.560	13.518	1.00	0.00	C
ATOM	3098	CZ	TYR	330	44.629	84.834	13.209	1.00	0.00	C
ATOM	3099	OH	TYR	330	44.993	86.125	12.772	1.00	0.00	O
ATOM	3100	HH	TYR	330	45.899	86.315	12.558	1.00	0.00	H
ATOM	3101	C	TYR	330	43.467	82.255	16.651	1.00	0.00	C
ATOM	3102	O	TYR	330	44.434	82.896	17.061	1.00	0.00	O
ATOM	3103	N	GLU	331	42.217	82.746	16.731	1.00	0.00	N
ATOM	3104	HN	GLU	331	41.421	82.186	16.427	1.00	0.00	H
ATOM	3105	CA	GLU	331	42.019	84.076	17.252	1.00	0.00	C

ATOM	3106	CB	GLU	331	40.552	84.528	17.141	1.00	0.00	C
ATOM	3107	CG	GLU	331	40.078	84.734	15.702	1.00	0.00	C
ATOM	3108	CD	GLU	331	38.572	84.959	15.734	1.00	0.00	C
ATOM	3109	OE1	GLU	331	37.837	83.999	16.088	1.00	0.00	O
ATOM	3110	OE2	GLU	331	38.136	86.094	15.406	1.00	0.00	O
ATOM	3111	C	GLU	331	42.388	84.133	18.708	1.00	0.00	C
ATOM	3112	O	GLU	331	43.207	84.947	19.131	1.00	0.00	O
ATOM	3113	N	ILE	332	41.811	83.215	19.499	1.00	0.00	N
ATOM	3114	HN	ILE	332	41.220	82.520	19.042	1.00	0.00	H
ATOM	3115	CA	ILE	332	41.944	83.115	20.927	1.00	0.00	C
ATOM	3116	CB	ILE	332	41.100	82.076	21.597	1.00	0.00	C
ATOM	3117	CG1	ILE	332	41.662	80.675	21.315	1.00	0.00	C
ATOM	3118	CG2	ILE	332	39.650	82.276	21.127	1.00	0.00	C
ATOM	3119	CD1	ILE	332	41.061	79.583	22.197	1.00	0.00	C
ATOM	3120	C	ILE	332	43.333	82.695	21.257	1.00	0.00	C
ATOM	3121	O	ILE	332	43.615	82.447	22.422	1.00	0.00	O
ATOM	3122	N	PHE	333	44.048	82.245	20.214	1.00	0.00	N
ATOM	3123	HN	PHE	333	43.540	82.251	19.329	1.00	0.00	H
ATOM	3124	CA	PHE	333	45.397	81.756	20.111	1.00	0.00	C
ATOM	3125	CB	PHE	333	45.691	81.061	18.767	1.00	0.00	C
ATOM	3126	CG	PHE	333	47.045	80.450	18.760	1.00	0.00	C
ATOM	3127	CD1	PHE	333	48.147	81.207	18.444	1.00	0.00	C
ATOM	3128	CD2	PHE	333	47.207	79.114	19.051	1.00	0.00	C
ATOM	3129	CE1	PHE	333	49.398	80.639	18.428	1.00	0.00	C
ATOM	3130	CE2	PHE	333	48.457	78.542	19.037	1.00	0.00	C
ATOM	3131	CZ	PHE	333	49.555	79.307	18.726	1.00	0.00	C
ATOM	3132	C	PHE	333	46.290	82.925	20.139	1.00	0.00	C
ATOM	3133	O	PHE	333	47.360	82.893	20.731	1.00	0.00	O
ATOM	3134	N	LYS	334	45.886	83.997	19.442	1.00	0.00	N
ATOM	3135	HN	LYS	334	45.040	83.967	18.873	1.00	0.00	H
ATOM	3136	CA	LYS	334	46.676	85.177	19.523	1.00	0.00	C
ATOM	3137	CB	LYS	334	46.116	86.344	18.689	1.00	0.00	C
ATOM	3138	CG	LYS	334	46.273	86.135	17.180	1.00	0.00	C
ATOM	3139	CD	LYS	334	45.468	87.115	16.325	1.00	0.00	C
ATOM	3140	CE	LYS	334	43.995	86.729	16.176	1.00	0.00	C
ATOM	3141	NZ	LYS	334	43.303	87.701	15.302	1.00	0.00	N
ATOM	3142	HZ1	LYS	334	42.321	87.444	15.203	1.00	0.00	H
ATOM	3143	HZ2	LYS	334	43.766	87.799	14.398	1.00	0.00	H
ATOM	3144	HZ3	LYS	334	43.415	88.660	15.632	1.00	0.00	H
ATOM	3145	C	LYS	334	46.558	85.499	20.951	1.00	0.00	C
ATOM	3146	O	LYS	334	47.502	85.970	21.574	1.00	0.00	O
ATOM	3147	N	ILE	335	45.361	85.212	21.489	1.00	0.00	N
ATOM	3148	HN	ILE	335	44.615	84.891	20.873	1.00	0.00	H
ATOM	3149	CA	ILE	335	45.088	85.336	22.877	1.00	0.00	C
ATOM	3150	CB	ILE	335	43.651	85.066	23.222	1.00	0.00	C
ATOM	3151	CG1	ILE	335	42.723	86.059	22.504	1.00	0.00	C
ATOM	3152	CG2	ILE	335	43.516	85.105	24.752	1.00	0.00	C
ATOM	3153	CD1	ILE	335	41.244	85.679	22.579	1.00	0.00	C
ATOM	3154	C	ILE	335	45.933	84.331	23.594	1.00	0.00	C
ATOM	3155	O	ILE	335	46.440	84.600	24.683	1.00	0.00	O
ATOM	3156	N	ILE	336	46.060	83.117	23.018	1.00	0.00	N
ATOM	3157	HN	ILE	336	45.650	82.940	22.101	1.00	0.00	H
ATOM	3158	CA	ILE	336	46.773	82.077	23.699	1.00	0.00	C
ATOM	3159	CB	ILE	336	46.611	80.753	23.009	1.00	0.00	C
ATOM	3160	CG1	ILE	336	45.153	80.275	23.124	1.00	0.00	C
ATOM	3161	CG2	ILE	336	47.656	79.773	23.568	1.00	0.00	C
ATOM	3162	CD1	ILE	336	44.820	79.096	22.212	1.00	0.00	C
ATOM	3163	C	ILE	336	48.248	82.360	23.794	1.00	0.00	C
ATOM	3164	O	ILE	336	48.736	82.784	24.840	1.00	0.00	O
ATOM	3165	N	ASP	337	48.965	82.304	22.655	1.00	0.00	N
ATOM	3166	HN	ASP	337	48.480	82.195	21.764	1.00	0.00	H
ATOM	3167	CA	ASP	337	50.391	82.394	22.670	1.00	0.00	C
ATOM	3168	CB	ASP	337	51.056	82.330	21.279	1.00	0.00	C
ATOM	3169	CG	ASP	337	51.123	80.881	20.806	1.00	0.00	C
ATOM	3170	OD1	ASP	337	50.421	80.019	21.399	1.00	0.00	O
ATOM	3171	OD2	ASP	337	51.897	80.614	19.847	1.00	0.00	O
ATOM	3172	C	ASP	337	50.852	83.692	23.320	1.00	0.00	C
ATOM	3173	O	ASP	337	51.593	83.642	24.301	1.00	0.00	O
ATOM	3174	N	ASN	338	50.341	84.870	22.883	1.00	0.00	N
ATOM	3175	HN	ASN	338	49.545	84.838	22.246	1.00	0.00	H
ATOM	3176	CA	ASN	338	50.856	86.178	23.266	1.00	0.00	C
ATOM	3177	CB	ASN	338	49.940	87.373	22.901	1.00	0.00	C
ATOM	3178	CG	ASN	338	48.589	87.414	23.633	1.00	0.00	C
ATOM	3179	OD1	ASN	338	47.626	87.954	23.099	1.00	0.00	O

ATOM	3180	ND2	ASN	338	48.469	86.897	24.880	1.00	0.00	N
ATOM	3181	1HD2	ASN	338	49.270	86.448	25.324	1.00	0.00	H
ATOM	3182	2HD2	ASN	338	47.572	86.924	25.366	1.00	0.00	H
ATOM	3183	C	ASN	338	51.273	86.323	24.741	1.00	0.00	C
ATOM	3184	O	ASN	338	50.693	85.728	25.643	1.00	0.00	O
ATOM	3185	N	LYS	339	52.405	87.050	24.972	1.00	0.00	N
ATOM	3186	HN	LYS	339	52.802	87.461	24.127	1.00	0.00	H
ATOM	3187	CA	LYS	339	53.167	87.361	26.185	1.00	0.00	C
ATOM	3188	CB	LYS	339	54.678	87.329	25.926	1.00	0.00	C
ATOM	3189	CG	LYS	339	55.470	86.957	27.177	1.00	0.00	C
ATOM	3190	CD	LYS	339	55.209	85.525	27.662	1.00	0.00	C
ATOM	3191	CE	LYS	339	54.000	85.394	28.595	1.00	0.00	C
ATOM	3192	NZ	LYS	339	53.727	83.966	28.885	1.00	0.00	N
ATOM	3193	HZ1	LYS	339	52.922	83.879	29.506	1.00	0.00	H
ATOM	3194	HZ2	LYS	339	54.548	83.489	29.257	1.00	0.00	H
ATOM	3195	HZ3	LYS	339	53.610	83.420	28.031	1.00	0.00	H
ATOM	3196	C	LYS	339	52.846	88.604	27.007	1.00	0.00	C
ATOM	3197	O	LYS	339	53.643	88.865	27.909	1.00	0.00	O
ATOM	3198	N	PRO	340	51.861	89.440	26.782	1.00	0.00	N
ATOM	3199	CA	PRO	340	51.812	90.777	27.382	1.00	0.00	C
ATOM	3200	CD	PRO	340	50.556	88.980	26.342	1.00	0.00	C
ATOM	3201	CB	PRO	340	50.343	91.197	27.309	1.00	0.00	C
ATOM	3202	CG	PRO	340	49.711	90.262	26.259	1.00	0.00	C
ATOM	3203	C	PRO	340	52.388	91.101	28.775	1.00	0.00	C
ATOM	3204	O	PRO	340	53.544	91.517	28.839	1.00	0.00	O
ATOM	3205	N	SER	341	51.628	90.962	29.884	1.00	0.00	N
ATOM	3206	HN	SER	341	50.635	90.783	29.737	1.00	0.00	H
ATOM	3207	CA	SER	341	52.080	91.041	31.270	1.00	0.00	C
ATOM	3208	CB	SER	341	52.953	89.836	31.644	1.00	0.00	C
ATOM	3209	OG	SER	341	54.173	89.896	30.921	1.00	0.00	O
ATOM	3210	HG	SER	341	54.714	89.150	31.153	1.00	0.00	H
ATOM	3211	C	SER	341	52.826	92.267	31.820	1.00	0.00	C
ATOM	3212	O	SER	341	53.483	92.122	32.831	1.00	0.00	O
ATOM	3213	N	ILE	342	52.809	93.499	31.302	1.00	0.00	N
ATOM	3214	HN	ILE	342	52.258	93.675	30.462	1.00	0.00	H
ATOM	3215	CA	ILE	342	53.561	94.607	31.908	1.00	0.00	C
ATOM	3216	CB	ILE	342	53.711	95.751	30.952	1.00	0.00	C
ATOM	3217	CG1	ILE	342	54.481	95.288	29.703	1.00	0.00	C
ATOM	3218	CG2	ILE	342	54.398	96.911	31.691	1.00	0.00	C
ATOM	3219	CD1	ILE	342	55.909	94.833	30.004	1.00	0.00	C
ATOM	3220	C	ILE	342	52.943	95.141	33.173	1.00	0.00	C
ATOM	3221	O	ILE	342	53.596	95.731	34.037	1.00	0.00	O
ATOM	3222	N	ASP	343	51.621	95.003	33.262	1.00	0.00	N
ATOM	3223	HN	ASP	343	51.162	94.428	32.556	1.00	0.00	H
ATOM	3224	CA	ASP	343	50.791	95.596	34.268	1.00	0.00	C
ATOM	3225	CB	ASP	343	49.297	95.375	33.974	1.00	0.00	C
ATOM	3226	CG	ASP	343	49.037	93.880	33.877	1.00	0.00	C
ATOM	3227	OD1	ASP	343	49.352	93.148	34.853	1.00	0.00	O
ATOM	3228	OD2	ASP	343	48.513	93.453	32.813	1.00	0.00	O
ATOM	3229	C	ASP	343	51.100	95.106	35.646	1.00	0.00	C
ATOM	3230	O	ASP	343	50.485	95.569	36.603	1.00	0.00	O
ATOM	3231	N	SER	344	51.965	94.091	35.796	1.00	0.00	N
ATOM	3232	HN	SER	344	52.441	93.690	34.988	1.00	0.00	H
ATOM	3233	CA	SER	344	52.207	93.582	37.114	1.00	0.00	C
ATOM	3234	CB	SER	344	51.229	92.460	37.490	1.00	0.00	C
ATOM	3235	OG	SER	344	49.889	92.907	37.378	1.00	0.00	O
ATOM	3236	HG	SER	344	49.284	92.213	37.611	1.00	0.00	H
ATOM	3237	C	SER	344	53.541	92.936	37.123	1.00	0.00	C
ATOM	3238	O	SER	344	54.471	93.438	37.756	1.00	0.00	O
ATOM	3239	N	TYR	345	53.619	91.749	36.475	1.00	0.00	N
ATOM	3240	HN	TYR	345	52.782	91.340	36.060	1.00	0.00	H
ATOM	3241	CA	TYR	345	54.868	91.069	36.371	1.00	0.00	C
ATOM	3242	CB	TYR	345	56.023	92.014	35.986	1.00	0.00	C
ATOM	3243	CG	TYR	345	57.177	91.215	35.483	1.00	0.00	C
ATOM	3244	CD1	TYR	345	56.968	90.029	34.817	1.00	0.00	C
ATOM	3245	CD2	TYR	345	58.468	91.638	35.692	1.00	0.00	C
ATOM	3246	CE1	TYR	345	58.027	89.287	34.349	1.00	0.00	C
ATOM	3247	CE2	TYR	345	59.528	90.901	35.220	1.00	0.00	C
ATOM	3248	CZ	TYR	345	59.312	89.726	34.548	1.00	0.00	C
ATOM	3249	OH	TYR	345	60.405	88.973	34.069	1.00	0.00	O
ATOM	3250	HH	TYR	345	61.294	89.277	34.207	1.00	0.00	H
ATOM	3251	C	TYR	345	55.081	90.398	37.683	1.00	0.00	C
ATOM	3252	O	TYR	345	54.265	90.551	38.589	1.00	0.00	O
ATOM	3253	N	SER	346	56.045	89.464	37.750	1.00	0.00	N

ATOM	3254	HN	SER	346	56.514	89.145	36.903	1.00	0.00	H
ATOM	3255	CA	SER	346	56.402	88.927	39.015	1.00	0.00	C
ATOM	3256	CB	SER	346	55.855	87.510	39.244	1.00	0.00	C
ATOM	3257	OG	SER	346	54.435	87.534	39.249	1.00	0.00	O
ATOM	3258	HG	SER	346	54.097	86.658	39.391	1.00	0.00	H
ATOM	3259	C	SER	346	57.887	88.831	38.975	1.00	0.00	C
ATOM	3260	O	SER	346	58.408	87.750	38.708	1.00	0.00	O
ATOM	3261	N	LYS	347	58.583	89.959	39.270	1.00	0.00	N
ATOM	3262	HN	LYS	347	58.058	90.784	39.559	1.00	0.00	H
ATOM	3263	CA	LYS	347	60.018	90.061	39.199	1.00	0.00	C
ATOM	3264	CB	LYS	347	60.548	90.778	37.962	1.00	0.00	C
ATOM	3265	CG	LYS	347	60.229	92.271	38.005	1.00	0.00	C
ATOM	3266	CD	LYS	347	61.082	93.126	37.073	1.00	0.00	C
ATOM	3267	CE	LYS	347	61.023	94.609	37.432	1.00	0.00	C
ATOM	3268	NZ	LYS	347	59.630	94.992	37.748	1.00	0.00	N
ATOM	3269	HZ1	LYS	347	59.591	95.983	37.988	1.00	0.00	H
ATOM	3270	HZ2	LYS	347	59.227	94.404	38.477	1.00	0.00	H
ATOM	3271	HZ3	LYS	347	58.986	94.754	36.994	1.00	0.00	H
ATOM	3272	C	LYS	347	60.503	90.954	40.352	1.00	0.00	C
ATOM	3273	O	LYS	347	59.765	91.183	41.304	1.00	0.00	O
ATOM	3274	N	SER	348	61.745	91.527	40.264	1.00	0.00	N
ATOM	3275	HN	SER	348	62.237	91.395	39.380	1.00	0.00	H
ATOM	3276	CA	SER	348	62.455	92.307	41.284	1.00	0.00	C
ATOM	3277	CB	SER	348	63.876	92.708	40.846	1.00	0.00	C
ATOM	3278	OG	SER	348	63.813	93.529	39.689	1.00	0.00	O
ATOM	3279	HG	SER	348	64.690	93.776	39.419	1.00	0.00	H
ATOM	3280	C	SER	348	61.730	93.577	41.708	1.00	0.00	C
ATOM	3281	O	SER	348	60.599	93.826	41.310	1.00	0.00	O
ATOM	3282	N	GLY	349	62.316	94.417	42.606	1.00	0.00	N
ATOM	3283	HN	GLY	349	63.233	94.223	43.008	1.00	0.00	H
ATOM	3284	CA	GLY	349	61.560	95.604	42.958	1.00	0.00	C
ATOM	3285	C	GLY	349	62.063	96.323	44.203	1.00	0.00	C
ATOM	3286	O	GLY	349	63.260	96.346	44.493	1.00	0.00	O
ATOM	3287	N	HIS	350	61.107	96.958	44.946	1.00	0.00	N
ATOM	3288	HN	HIS	350	60.142	96.806	44.654	1.00	0.00	H
ATOM	3289	CA	HIS	350	61.293	97.827	46.105	1.00	0.00	C
ATOM	3290	ND1	HIS	350	59.981	101.360	47.016	1.00	0.00	N
ATOM	3291	HD1	HIS	350	59.231	101.630	46.380	1.00	0.00	H
ATOM	3292	CG	HIS	350	60.714	100.196	46.972	1.00	0.00	C
ATOM	3293	CB	HIS	350	60.505	99.140	45.926	1.00	0.00	C
ATOM	3294	NE2	HIS	350	61.427	101.461	48.699	1.00	0.00	N
ATOM	3295	HE2	HIS	350	61.946	101.786	49.515	1.00	0.00	H
ATOM	3296	CD2	HIS	350	61.594	100.273	48.008	1.00	0.00	C
ATOM	3297	CE1	HIS	350	60.447	102.080	48.067	1.00	0.00	C
ATOM	3298	C	HIS	350	60.757	97.166	47.359	1.00	0.00	C
ATOM	3299	O	HIS	350	59.835	96.358	47.277	1.00	0.00	O
ATOM	3300	N	LYS	351	61.305	97.472	48.571	1.00	0.00	N
ATOM	3301	HN	LYS	351	62.069	98.143	48.655	1.00	0.00	H
ATOM	3302	CA	LYS	351	60.753	96.801	49.736	1.00	0.00	C
ATOM	3303	CB	LYS	351	61.508	95.514	50.078	1.00	0.00	C
ATOM	3304	CG	LYS	351	61.281	94.471	48.987	1.00	0.00	C
ATOM	3305	CD	LYS	351	62.237	93.287	49.029	1.00	0.00	C
ATOM	3306	CE	LYS	351	61.828	92.165	48.076	1.00	0.00	C
ATOM	3307	NZ	LYS	351	62.834	91.082	48.103	1.00	0.00	N
ATOM	3308	HZ1	LYS	351	62.561	90.333	47.467	1.00	0.00	H
ATOM	3309	HZ2	LYS	351	62.999	90.738	49.049	1.00	0.00	H
ATOM	3310	HZ3	LYS	351	63.773	91.428	47.904	1.00	0.00	H
ATOM	3311	C	LYS	351	60.632	97.646	50.993	1.00	0.00	C
ATOM	3312	O	LYS	351	61.617	98.010	51.637	1.00	0.00	O
ATOM	3313	N	PRO	352	59.406	97.977	51.351	1.00	0.00	N
ATOM	3314	CA	PRO	352	59.083	98.691	52.579	1.00	0.00	C
ATOM	3315	CD	PRO	352	58.318	98.017	50.398	1.00	0.00	C
ATOM	3316	CB	PRO	352	57.685	99.262	52.380	1.00	0.00	C
ATOM	3317	CG	PRO	352	57.093	98.421	51.236	1.00	0.00	C
ATOM	3318	C	PRO	352	59.150	97.795	53.772	1.00	0.00	C
ATOM	3319	O	PRO	352	58.122	97.245	54.173	1.00	0.00	O
ATOM	3320	N	ASP	353	60.319	97.732	54.415	1.00	0.00	N
ATOM	3321	HN	ASP	353	61.076	98.349	54.121	1.00	0.00	H
ATOM	3322	CA	ASP	353	60.548	96.831	55.500	1.00	0.00	C
ATOM	3323	CB	ASP	353	62.043	96.601	55.743	1.00	0.00	C
ATOM	3324	CG	ASP	353	62.529	95.874	54.491	1.00	0.00	C
ATOM	3325	OD1	ASP	353	61.693	95.666	53.570	1.00	0.00	O
ATOM	3326	OD2	ASP	353	63.736	95.523	54.434	1.00	0.00	O
ATOM	3327	C	ASP	353	59.864	97.285	56.741	1.00	0.00	C

ATOM	3328	O	ASP	353	59.558	96.459	57.602	1.00	0.00	O
ATOM	3329	N	ASN	354	59.650	98.611	56.880	1.00	0.00	N
ATOM	3330	HN	ASN	354	60.003	99.264	56.180	1.00	0.00	H
ATOM	3331	CA	ASN	354	58.925	99.095	58.015	1.00	0.00	C
ATOM	3332	CB	ASN	354	58.659	100.609	57.956	1.00	0.00	C
ATOM	3333	CG	ASN	354	57.861	100.890	56.690	1.00	0.00	C
ATOM	3334	OD1	ASN	354	56.636	100.787	56.686	1.00	0.00	O
ATOM	3335	ND2	ASN	354	58.567	101.230	55.578	1.00	0.00	N
ATOM	3336	1HD2	ASN	354	59.583	101.315	55.581	1.00	0.00	H
ATOM	3337	2HD2	ASN	354	58.032	101.418	54.730	1.00	0.00	H
ATOM	3338	C	ASN	354	57.634	98.368	57.878	1.00	0.00	C
ATOM	3339	O	ASN	354	57.045	98.291	56.812	1.00	0.00	O
ATOM	3340	N	ILE	355	57.211	97.641	58.898	1.00	0.00	N
ATOM	3341	HN	ILE	355	57.657	97.621	59.815	1.00	0.00	H
ATOM	3342	CA	ILE	355	56.056	96.891	58.553	1.00	0.00	C
ATOM	3343	CB	ILE	355	55.882	95.788	59.543	1.00	0.00	C
ATOM	3344	CG1	ILE	355	57.178	94.960	59.574	1.00	0.00	C
ATOM	3345	CG2	ILE	355	54.632	94.982	59.183	1.00	0.00	C
ATOM	3346	CD1	ILE	355	57.610	94.461	58.196	1.00	0.00	C
ATOM	3347	C	ILE	355	54.775	97.702	58.482	1.00	0.00	C
ATOM	3348	O	ILE	355	54.355	98.098	57.400	1.00	0.00	O
ATOM	3349	N	LYS	356	54.250	98.152	59.644	1.00	0.00	N
ATOM	3350	HN	LYS	356	54.841	98.100	60.474	1.00	0.00	H
ATOM	3351	CA	LYS	356	52.916	98.703	59.812	1.00	0.00	C
ATOM	3352	CB	LYS	356	52.583	99.026	61.280	1.00	0.00	C
ATOM	3353	CG	LYS	356	52.487	97.800	62.188	1.00	0.00	C
ATOM	3354	CD	LYS	356	51.351	96.845	61.818	1.00	0.00	C
ATOM	3355	CE	LYS	356	49.965	97.368	62.200	1.00	0.00	C
ATOM	3356	NZ	LYS	356	48.938	96.340	61.917	1.00	0.00	N
ATOM	3357	HZ1	LYS	356	48.014	96.689	62.172	1.00	0.00	H
ATOM	3358	HZ2	LYS	356	49.150	95.453	62.373	1.00	0.00	H
ATOM	3359	HZ3	LYS	356	48.973	96.022	60.948	1.00	0.00	H
ATOM	3360	C	LYS	356	52.697	99.975	59.057	1.00	0.00	C
ATOM	3361	O	LYS	356	53.640	100.663	58.667	1.00	0.00	O
ATOM	3362	N	GLY	357	51.398	100.293	58.818	1.00	0.00	N
ATOM	3363	HN	GLY	357	50.663	99.651	59.116	1.00	0.00	H
ATOM	3364	CA	GLY	357	51.039	101.516	58.154	1.00	0.00	C
ATOM	3365	C	GLY	357	49.552	101.591	57.943	1.00	0.00	C
ATOM	3366	O	GLY	357	48.800	100.661	58.234	1.00	0.00	O
ATOM	3367	N	ASN	358	49.090	102.735	57.398	1.00	0.00	N
ATOM	3368	HN	ASN	358	49.748	103.467	57.131	1.00	0.00	H
ATOM	3369	CA	ASN	358	47.684	102.934	57.190	1.00	0.00	C
ATOM	3370	CB	ASN	358	47.167	104.269	57.757	1.00	0.00	C
ATOM	3371	CG	ASN	358	47.363	104.268	59.269	1.00	0.00	C
ATOM	3372	OD1	ASN	358	47.892	103.318	59.843	1.00	0.00	O
ATOM	3373	ND2	ASN	358	46.922	105.364	59.941	1.00	0.00	N
ATOM	3374	1HD2	ASN	358	47.053	105.363	60.953	1.00	0.00	H
ATOM	3375	2HD2	ASN	358	46.483	106.152	59.465	1.00	0.00	H
ATOM	3376	C	ASN	358	47.454	102.970	55.719	1.00	0.00	C
ATOM	3377	O	ASN	358	48.310	103.404	54.953	1.00	0.00	O
ATOM	3378	N	LEU	359	46.285	102.468	55.287	1.00	0.00	N
ATOM	3379	HN	LEU	359	45.638	102.070	55.967	1.00	0.00	H
ATOM	3380	CA	LEU	359	45.919	102.474	53.907	1.00	0.00	C
ATOM	3381	CB	LEU	359	44.692	101.595	53.605	1.00	0.00	C
ATOM	3382	CG	LEU	359	44.895	100.097	53.886	1.00	0.00	C
ATOM	3383	CD1	LEU	359	45.237	99.844	55.362	1.00	0.00	C
ATOM	3384	CD2	LEU	359	43.676	99.284	53.424	1.00	0.00	C
ATOM	3385	C	LEU	359	45.500	103.866	53.604	1.00	0.00	C
ATOM	3386	O	LEU	359	44.918	104.541	54.451	1.00	0.00	O
ATOM	3387	N	GLU	360	45.807	104.347	52.387	1.00	0.00	N
ATOM	3388	HN	GLU	360	46.328	103.784	51.715	1.00	0.00	H
ATOM	3389	CA	GLU	360	45.381	105.669	52.066	1.00	0.00	C
ATOM	3390	CB	GLU	360	46.530	106.689	52.128	1.00	0.00	C
ATOM	3391	CG	GLU	360	47.186	106.795	53.509	1.00	0.00	C
ATOM	3392	CD	GLU	360	46.218	107.477	54.466	1.00	0.00	C
ATOM	3393	OE1	GLU	360	45.983	108.703	54.297	1.00	0.00	O
ATOM	3394	OE2	GLU	360	45.702	106.779	55.380	1.00	0.00	O
ATOM	3395	C	GLU	360	44.894	105.647	50.654	1.00	0.00	C
ATOM	3396	O	GLU	360	45.692	105.599	49.721	1.00	0.00	O
ATOM	3397	N	PHE	361	43.564	105.683	50.448	1.00	0.00	N
ATOM	3398	HN	PHE	361	42.913	105.645	51.232	1.00	0.00	H
ATOM	3399	CA	PHE	361	43.085	105.776	49.100	1.00	0.00	C
ATOM	3400	CB	PHE	361	41.735	105.073	48.858	1.00	0.00	C
ATOM	3401	CG	PHE	361	41.989	103.621	48.627	1.00	0.00	C

ATOM	3402	CD1	PHE	361	42.265	102.766	49.669	1.00	0.00	C
ATOM	3403	CD2	PHE	361	41.970	103.121	47.344	1.00	0.00	C
ATOM	3404	CE1	PHE	361	42.502	101.431	49.431	1.00	0.00	C
ATOM	3405	CE2	PHE	361	42.204	101.789	47.099	1.00	0.00	C
ATOM	3406	CZ	PHE	361	42.470	100.940	48.147	1.00	0.00	C
ATOM	3407	C	PHE	361	42.895	107.235	48.868	1.00	0.00	C
ATOM	3408	O	PHE	361	41.981	107.847	49.420	1.00	0.00	O
ATOM	3409	N	ARG	362	43.760	107.845	48.036	1.00	0.00	N
ATOM	3410	HN	ARG	362	44.465	107.319	47.519	1.00	0.00	H
ATOM	3411	CA	ARG	362	43.645	109.264	47.911	1.00	0.00	C
ATOM	3412	CB	ARG	362	44.956	109.996	48.246	1.00	0.00	C
ATOM	3413	CG	ARG	362	45.469	109.696	49.657	1.00	0.00	C
ATOM	3414	CD	ARG	362	45.237	110.813	50.676	1.00	0.00	C
ATOM	3415	NE	ARG	362	46.162	111.929	50.332	1.00	0.00	N
ATOM	3416	HE	ARG	362	45.812	112.744	49.828	1.00	0.00	H
ATOM	3417	CZ	ARG	362	47.478	111.861	50.691	1.00	0.00	C
ATOM	3418	NH1	ARG	362	47.969	110.737	51.291	1.00	0.00	N
ATOM	3419	1HH1	ARG	362	47.350	109.947	51.476	1.00	0.00	H
ATOM	3420	2HH1	ARG	362	48.952	110.686	51.559	1.00	0.00	H
ATOM	3421	NH2	ARG	362	48.306	112.918	50.443	1.00	0.00	N
ATOM	3422	1HH2	ARG	362	47.939	113.758	49.995	1.00	0.00	H
ATOM	3423	2HH2	ARG	362	49.289	112.867	50.711	1.00	0.00	H
ATOM	3424	C	ARG	362	43.293	109.632	46.509	1.00	0.00	C
ATOM	3425	O	ARG	362	44.085	109.418	45.592	1.00	0.00	O
ATOM	3426	N	ASN	363	42.079	110.203	46.341	1.00	0.00	N
ATOM	3427	HN	ASN	363	41.469	110.247	47.157	1.00	0.00	H
ATOM	3428	CA	ASN	363	41.573	110.754	45.113	1.00	0.00	C
ATOM	3429	CB	ASN	363	42.102	112.172	44.832	1.00	0.00	C
ATOM	3430	CG	ASN	363	41.317	112.764	43.669	1.00	0.00	C
ATOM	3431	OD1	ASN	363	40.285	112.233	43.261	1.00	0.00	O
ATOM	3432	ND2	ASN	363	41.823	113.898	43.115	1.00	0.00	N
ATOM	3433	1HD2	ASN	363	41.297	114.295	42.336	1.00	0.00	H
ATOM	3434	2HD2	ASN	363	42.679	114.338	43.453	1.00	0.00	H
ATOM	3435	C	ASN	363	41.945	109.880	43.962	1.00	0.00	C
ATOM	3436	O	ASN	363	42.729	110.292	43.108	1.00	0.00	O
ATOM	3437	N	VAL	364	41.411	108.644	43.908	1.00	0.00	N
ATOM	3438	HN	VAL	364	40.738	108.333	44.609	1.00	0.00	H
ATOM	3439	CA	VAL	364	41.814	107.780	42.840	1.00	0.00	C
ATOM	3440	CB	VAL	364	42.266	106.428	43.311	1.00	0.00	C
ATOM	3441	CG1	VAL	364	42.617	105.572	42.083	1.00	0.00	C
ATOM	3442	CG2	VAL	364	43.432	106.618	44.295	1.00	0.00	C
ATOM	3443	C	VAL	364	40.684	107.557	41.897	1.00	0.00	C
ATOM	3444	O	VAL	364	39.593	107.129	42.275	1.00	0.00	O
ATOM	3445	N	HIS	365	40.954	107.839	40.612	1.00	0.00	N
ATOM	3446	HN	HIS	365	41.866	108.231	40.376	1.00	0.00	H
ATOM	3447	CA	HIS	365	40.014	107.611	39.567	1.00	0.00	C
ATOM	3448	ND1	HIS	365	40.551	110.740	39.961	1.00	0.00	N
ATOM	3449	HD1	HIS	365	41.444	110.400	40.317	1.00	0.00	H
ATOM	3450	CG	HIS	365	39.708	110.082	39.093	1.00	0.00	C
ATOM	3451	CB	HIS	365	40.004	108.731	38.514	1.00	0.00	C
ATOM	3452	NE2	HIS	365	38.807	112.079	39.632	1.00	0.00	N
ATOM	3453	HE2	HIS	365	38.173	112.877	39.680	1.00	0.00	H
ATOM	3454	CD2	HIS	365	38.647	110.913	38.903	1.00	0.00	C
ATOM	3455	CE1	HIS	365	39.964	111.928	40.251	1.00	0.00	C
ATOM	3456	C	HIS	365	40.561	106.401	38.893	1.00	0.00	C
ATOM	3457	O	HIS	365	41.775	106.208	38.850	1.00	0.00	O
ATOM	3458	N	PHE	366	39.681	105.519	38.400	1.00	0.00	N
ATOM	3459	HN	PHE	366	38.678	105.685	38.483	1.00	0.00	H
ATOM	3460	CA	PHE	366	40.170	104.348	37.760	1.00	0.00	C
ATOM	3461	CB	PHE	366	40.593	103.271	38.774	1.00	0.00	C
ATOM	3462	CG	PHE	366	40.750	101.979	38.058	1.00	0.00	C
ATOM	3463	CD1	PHE	366	41.860	101.710	37.291	1.00	0.00	C
ATOM	3464	CD2	PHE	366	39.769	101.021	38.176	1.00	0.00	C
ATOM	3465	CE1	PHE	366	41.979	100.504	36.642	1.00	0.00	C
ATOM	3466	CE2	PHE	366	39.883	99.815	37.531	1.00	0.00	C
ATOM	3467	CZ	PHE	366	40.990	99.556	36.761	1.00	0.00	C
ATOM	3468	C	PHE	366	39.082	103.799	36.927	1.00	0.00	C
ATOM	3469	O	PHE	366	37.922	103.735	37.331	1.00	0.00	O
ATOM	3470	N	SER	367	39.451	103.380	35.715	1.00	0.00	N
ATOM	3471	HN	SER	367	40.415	103.495	35.403	1.00	0.00	H
ATOM	3472	CA	SER	367	38.494	102.774	34.864	1.00	0.00	C
ATOM	3473	CB	SER	367	38.271	103.502	33.529	1.00	0.00	C
ATOM	3474	OG	SER	367	39.423	103.376	32.709	1.00	0.00	O
ATOM	3475	HG	SER	367	39.285	103.826	31.884	1.00	0.00	H

ATOM	3476	C	SER	367	39.099	101.465	34.542	1.00	0.00	C
ATOM	3477	O	SER	367	40.318	101.296	34.523	1.00	0.00	O
ATOM	3478	N	TYR	368	38.235	100.482	34.310	1.00	0.00	N
ATOM	3479	HN	TYR	368	37.231	100.647	34.385	1.00	0.00	H
ATOM	3480	CA	TYR	368	38.729	99.200	33.956	1.00	0.00	C
ATOM	3481	CB	TYR	368	37.617	98.160	33.692	1.00	0.00	C
ATOM	3482	CG	TYR	368	37.129	97.726	35.031	1.00	0.00	C
ATOM	3483	CD1	TYR	368	37.865	96.837	35.781	1.00	0.00	C
ATOM	3484	CD2	TYR	368	35.963	98.221	35.555	1.00	0.00	C
ATOM	3485	CE1	TYR	368	37.432	96.436	37.024	1.00	0.00	C
ATOM	3486	CE2	TYR	368	35.520	97.827	36.795	1.00	0.00	C
ATOM	3487	CZ	TYR	368	36.255	96.931	37.532	1.00	0.00	C
ATOM	3488	OH	TYR	368	35.802	96.525	38.805	1.00	0.00	O
ATOM	3489	HH	TYR	368	36.310	95.905	39.315	1.00	0.00	H
ATOM	3490	C	TYR	368	39.652	99.306	32.764	1.00	0.00	C
ATOM	3491	O	TYR	368	39.599	100.269	31.999	1.00	0.00	O
ATOM	3492	N	PRO	369	40.548	98.357	32.615	1.00	0.00	N
ATOM	3493	CA	PRO	369	41.525	98.393	31.559	1.00	0.00	C
ATOM	3494	CD	PRO	369	40.310	96.995	33.065	1.00	0.00	C
ATOM	3495	CB	PRO	369	42.197	97.028	31.569	1.00	0.00	C
ATOM	3496	CG	PRO	369	41.078	96.113	32.081	1.00	0.00	C
ATOM	3497	C	PRO	369	40.923	98.654	30.216	1.00	0.00	C
ATOM	3498	O	PRO	369	41.651	99.138	29.352	1.00	0.00	O
ATOM	3499	N	SER	370	39.656	98.283	29.953	1.00	0.00	N
ATOM	3500	HN	SER	370	39.089	97.758	30.619	1.00	0.00	H
ATOM	3501	CA	SER	370	39.164	98.681	28.667	1.00	0.00	C
ATOM	3502	CB	SER	370	37.766	98.141	28.335	1.00	0.00	C
ATOM	3503	OG	SER	370	37.791	96.722	28.305	1.00	0.00	O
ATOM	3504	HG	SER	370	36.926	96.388	28.100	1.00	0.00	H
ATOM	3505	C	SER	370	39.097	100.167	28.758	1.00	0.00	C
ATOM	3506	O	SER	370	38.403	100.720	29.601	1.00	0.00	O
ATOM	3507	N	ARG	371	39.745	100.875	27.831	1.00	0.00	N
ATOM	3508	HN	ARG	371	40.105	100.421	26.992	1.00	0.00	H
ATOM	3509	CA	ARG	371	39.929	102.285	28.031	1.00	0.00	C
ATOM	3510	CB	ARG	371	40.828	102.974	26.983	1.00	0.00	C
ATOM	3511	CG	ARG	371	40.320	103.002	25.543	1.00	0.00	C
ATOM	3512	CD	ARG	371	41.365	103.578	24.583	1.00	0.00	C
ATOM	3513	NE	ARG	371	40.675	103.966	23.322	1.00	0.00	N
ATOM	3514	HE	ARG	371	40.561	103.288	22.568	1.00	0.00	H
ATOM	3515	CZ	ARG	371	40.196	105.237	23.183	1.00	0.00	C
ATOM	3516	NH1	ARG	371	40.365	106.143	24.190	1.00	0.00	N
ATOM	3517	1HH1	ARG	371	40.007	107.093	24.086	1.00	0.00	H
ATOM	3518	2HH1	ARG	371	40.841	105.867	25.049	1.00	0.00	H
ATOM	3519	NH2	ARG	371	39.560	105.606	22.034	1.00	0.00	N
ATOM	3520	1HH2	ARG	371	39.202	106.556	21.930	1.00	0.00	H
ATOM	3521	2HH2	ARG	371	39.434	104.929	21.282	1.00	0.00	H
ATOM	3522	C	ARG	371	38.641	103.065	28.155	1.00	0.00	C
ATOM	3523	O	ARG	371	38.637	104.129	28.771	1.00	0.00	O
ATOM	3524	N	LYS	372	37.545	102.620	27.515	1.00	0.00	N
ATOM	3525	HN	LYS	372	37.604	101.721	27.036	1.00	0.00	H
ATOM	3526	CA	LYS	372	36.286	103.334	27.462	1.00	0.00	C
ATOM	3527	CB	LYS	372	35.373	102.766	26.368	1.00	0.00	C
ATOM	3528	CG	LYS	372	35.975	102.908	24.973	1.00	0.00	C
ATOM	3529	CD	LYS	372	37.226	102.054	24.762	1.00	0.00	C
ATOM	3530	CE	LYS	372	36.920	100.603	24.387	1.00	0.00	C
ATOM	3531	NZ	LYS	372	38.182	99.855	24.200	1.00	0.00	N
ATOM	3532	HZ1	LYS	372	37.978	98.887	23.950	1.00	0.00	H
ATOM	3533	HZ2	LYS	372	38.790	99.920	25.016	1.00	0.00	H
ATOM	3534	HZ3	LYS	372	38.797	100.304	23.521	1.00	0.00	H
ATOM	3535	C	LYS	372	35.440	103.412	28.712	1.00	0.00	C
ATOM	3536	O	LYS	372	34.939	104.487	29.039	1.00	0.00	O
ATOM	3537	N	GLU	373	35.261	102.307	29.463	1.00	0.00	N
ATOM	3538	HN	GLU	373	35.845	101.487	29.300	1.00	0.00	H
ATOM	3539	CA	GLU	373	34.249	102.270	30.498	1.00	0.00	C
ATOM	3540	CB	GLU	373	34.196	100.958	31.298	1.00	0.00	C
ATOM	3541	CG	GLU	373	33.755	99.767	30.454	1.00	0.00	C
ATOM	3542	CD	GLU	373	34.925	99.465	29.541	1.00	0.00	C
ATOM	3543	OE1	GLU	373	36.054	99.357	30.086	1.00	0.00	O
ATOM	3544	OE2	GLU	373	34.719	99.359	28.302	1.00	0.00	O
ATOM	3545	C	GLU	373	34.402	103.371	31.492	1.00	0.00	C
ATOM	3546	O	GLU	373	35.459	103.985	31.626	1.00	0.00	O
ATOM	3547	N	VAL	374	33.288	103.648	32.209	1.00	0.00	N
ATOM	3548	HN	VAL	374	32.441	103.105	32.041	1.00	0.00	H
ATOM	3549	CA	VAL	374	33.267	104.683	33.197	1.00	0.00	C



ATOM	3550	CB	VAL	374	31.994	104.782	33.987	1.00	0.00	C
ATOM	3551	CG1	VAL	374	30.851	105.120	33.034	1.00	0.00	C
ATOM	3552	CG2	VAL	374	31.782	103.477	34.771	1.00	0.00	C
ATOM	3553	C	VAL	374	34.309	104.367	34.195	1.00	0.00	C
ATOM	3554	O	VAL	374	34.514	103.209	34.550	1.00	0.00	O
ATOM	3555	N	LYS	375	35.021	105.397	34.676	1.00	0.00	N
ATOM	3556	HN	LYS	375	34.885	106.356	34.357	1.00	0.00	H
ATOM	3557	CA	LYS	375	35.980	105.046	35.665	1.00	0.00	C
ATOM	3558	CB	LYS	375	36.921	106.193	36.076	1.00	0.00	C
ATOM	3559	CG	LYS	375	36.200	107.454	36.551	1.00	0.00	C
ATOM	3560	CD	LYS	375	35.343	108.099	35.462	1.00	0.00	C
ATOM	3561	CE	LYS	375	34.646	109.384	35.907	1.00	0.00	C
ATOM	3562	NZ	LYS	375	33.996	110.028	34.745	1.00	0.00	N
ATOM	3563	HZ1	LYS	375	33.531	110.886	35.042	1.00	0.00	H
ATOM	3564	HZ2	LYS	375	33.360	109.394	34.261	1.00	0.00	H
ATOM	3565	HZ3	LYS	375	34.651	110.192	33.981	1.00	0.00	H
ATOM	3566	C	LYS	375	35.188	104.630	36.849	1.00	0.00	C
ATOM	3567	O	LYS	375	34.592	105.458	37.536	1.00	0.00	O
ATOM	3568	N	ILE	376	35.225	103.318	37.141	1.00	0.00	N
ATOM	3569	HN	ILE	376	35.811	102.704	36.576	1.00	0.00	H
ATOM	3570	CA	ILE	376	34.473	102.757	38.213	1.00	0.00	C
ATOM	3571	CB	ILE	376	34.838	101.326	38.410	1.00	0.00	C
ATOM	3572	CG1	ILE	376	34.191	100.477	37.306	1.00	0.00	C
ATOM	3573	CG2	ILE	376	34.518	100.937	39.857	1.00	0.00	C
ATOM	3574	CD1	ILE	376	34.680	100.838	35.906	1.00	0.00	C
ATOM	3575	C	ILE	376	34.870	103.511	39.431	1.00	0.00	C
ATOM	3576	O	ILE	376	34.012	103.968	40.184	1.00	0.00	O
ATOM	3577	N	LEU	377	36.185	103.689	39.650	1.00	0.00	N
ATOM	3578	HN	LEU	377	36.892	103.226	39.079	1.00	0.00	H
ATOM	3579	CA	LEU	377	36.540	104.561	40.725	1.00	0.00	C
ATOM	3580	CB	LEU	377	37.942	104.342	41.315	1.00	0.00	C
ATOM	3581	CG	LEU	377	38.114	102.988	42.028	1.00	0.00	C
ATOM	3582	CD1	LEU	377	39.420	102.961	42.833	1.00	0.00	C
ATOM	3583	CD2	LEU	377	36.883	102.622	42.873	1.00	0.00	C
ATOM	3584	C	LEU	377	36.510	105.919	40.099	1.00	0.00	C
ATOM	3585	O	LEU	377	37.442	106.350	39.431	1.00	0.00	O
ATOM	3586	N	LYS	378	35.393	106.614	40.326	1.00	0.00	N
ATOM	3587	HN	LYS	378	34.732	106.156	40.954	1.00	0.00	H
ATOM	3588	CA	LYS	378	34.960	107.892	39.841	1.00	0.00	C
ATOM	3589	CB	LYS	378	33.468	108.123	40.112	1.00	0.00	C
ATOM	3590	CG	LYS	378	33.098	107.877	41.573	1.00	0.00	C
ATOM	3591	CD	LYS	378	31.703	108.367	41.950	1.00	0.00	C
ATOM	3592	CE	LYS	378	31.300	107.986	43.374	1.00	0.00	C
ATOM	3593	NZ	LYS	378	29.959	108.526	43.676	1.00	0.00	N
ATOM	3594	HZ1	LYS	378	29.690	108.272	44.626	1.00	0.00	H
ATOM	3595	HZ2	LYS	378	29.264	108.233	42.989	1.00	0.00	H
ATOM	3596	HZ3	LYS	378	29.907	109.532	43.519	1.00	0.00	H
ATOM	3597	C	LYS	378	35.733	109.018	40.453	1.00	0.00	C
ATOM	3598	O	LYS	378	35.353	110.177	40.280	1.00	0.00	O
ATOM	3599	N	GLY	379	36.797	108.737	41.229	1.00	0.00	N
ATOM	3600	HN	GLY	379	37.164	107.788	41.296	1.00	0.00	H
ATOM	3601	CA	GLY	379	37.396	109.816	41.958	1.00	0.00	C
ATOM	3602	C	GLY	379	36.981	109.585	43.366	1.00	0.00	C
ATOM	3603	O	GLY	379	36.037	110.184	43.881	1.00	0.00	O
ATOM	3604	N	LEU	380	37.665	108.601	43.982	1.00	0.00	N
ATOM	3605	HN	LEU	380	38.446	108.165	43.492	1.00	0.00	H
ATOM	3606	CA	LEU	380	37.337	108.145	45.296	1.00	0.00	C
ATOM	3607	CB	LEU	380	37.105	106.617	45.306	1.00	0.00	C
ATOM	3608	CG	LEU	380	36.957	105.944	46.683	1.00	0.00	C
ATOM	3609	CD1	LEU	380	38.322	105.748	47.361	1.00	0.00	C
ATOM	3610	CD2	LEU	380	35.950	106.692	47.570	1.00	0.00	C
ATOM	3611	C	LEU	380	38.412	108.485	46.269	1.00	0.00	C
ATOM	3612	O	LEU	380	39.603	108.352	45.991	1.00	0.00	O
ATOM	3613	N	ASN	381	37.975	108.952	47.455	1.00	0.00	N
ATOM	3614	HN	ASN	381	36.972	109.082	47.585	1.00	0.00	H
ATOM	3615	CA	ASN	381	38.847	109.274	48.538	1.00	0.00	C
ATOM	3616	CB	ASN	381	38.749	110.738	49.004	1.00	0.00	C
ATOM	3617	CG	ASN	381	39.445	111.629	47.986	1.00	0.00	C
ATOM	3618	OD1	ASN	381	40.672	111.713	47.955	1.00	0.00	O
ATOM	3619	ND2	ASN	381	38.642	112.315	47.130	1.00	0.00	N
ATOM	3620	1HD2	ASN	381	39.109	112.912	46.447	1.00	0.00	H
ATOM	3621	2HD2	ASN	381	37.625	112.245	47.156	1.00	0.00	H
ATOM	3622	C	ASN	381	38.417	108.435	49.691	1.00	0.00	C
ATOM	3623	O	ASN	381	37.224	108.303	49.978	1.00	0.00	O

ATOM	3624	N	LEU	382	39.399	107.799	50.351	1.00	0.00	N
ATOM	3625	HN	LEU	382	40.364	107.865	50.027	1.00	0.00	H
ATOM	3626	CA	LEU	382	39.080	107.033	51.506	1.00	0.00	C
ATOM	3627	CB	LEU	382	38.567	105.612	51.217	1.00	0.00	C
ATOM	3628	CG	LEU	382	38.189	104.846	52.502	1.00	0.00	C
ATOM	3629	CD1	LEU	382	36.844	105.329	53.073	1.00	0.00	C
ATOM	3630	CD2	LEU	382	38.275	103.326	52.316	1.00	0.00	C
ATOM	3631	C	LEU	382	40.356	106.835	52.237	1.00	0.00	C
ATOM	3632	O	LEU	382	41.435	106.741	51.649	1.00	0.00	O
ATOM	3633	N	LYS	383	40.256	106.774	53.567	1.00	0.00	N
ATOM	3634	HN	LYS	383	39.354	106.898	54.026	1.00	0.00	H
ATOM	3635	CA	LYS	383	41.430	106.533	54.332	1.00	0.00	C
ATOM	3636	CB	LYS	383	41.897	107.766	55.116	1.00	0.00	C
ATOM	3637	CG	LYS	383	40.920	108.139	56.230	1.00	0.00	C
ATOM	3638	CD	LYS	383	39.506	108.438	55.730	1.00	0.00	C
ATOM	3639	CE	LYS	383	38.473	108.566	56.849	1.00	0.00	C
ATOM	3640	NZ	LYS	383	37.163	108.954	56.282	1.00	0.00	N
ATOM	3641	HZ1	LYS	383	36.474	109.039	57.029	1.00	0.00	H
ATOM	3642	HZ2	LYS	383	36.857	108.313	55.550	1.00	0.00	H
ATOM	3643	HZ3	LYS	383	37.225	109.802	55.719	1.00	0.00	H
ATOM	3644	C	LYS	383	41.013	105.535	55.349	1.00	0.00	C
ATOM	3645	O	LYS	383	39.831	105.468	55.692	1.00	0.00	O
ATOM	3646	N	VAL	384	41.956	104.691	55.811	1.00	0.00	N
ATOM	3647	HN	VAL	384	42.895	104.675	55.413	1.00	0.00	H
ATOM	3648	CA	VAL	384	41.588	103.817	56.883	1.00	0.00	C
ATOM	3649	CB	VAL	384	41.233	102.409	56.474	1.00	0.00	C
ATOM	3650	CG1	VAL	384	40.012	102.453	55.550	1.00	0.00	C
ATOM	3651	CG2	VAL	384	42.447	101.722	55.842	1.00	0.00	C
ATOM	3652	C	VAL	384	42.753	103.737	57.827	1.00	0.00	C
ATOM	3653	O	VAL	384	43.881	103.417	57.446	1.00	0.00	O
ATOM	3654	N	GLN	385	42.464	103.995	59.114	1.00	0.00	N
ATOM	3655	HN	GLN	385	41.491	104.198	59.344	1.00	0.00	H
ATOM	3656	CA	GLN	385	43.412	104.008	60.189	1.00	0.00	C
ATOM	3657	CB	GLN	385	42.760	104.314	61.550	1.00	0.00	C
ATOM	3658	CG	GLN	385	43.728	104.344	62.736	1.00	0.00	C
ATOM	3659	CD	GLN	385	44.245	105.764	62.905	1.00	0.00	C
ATOM	3660	OE1	GLN	385	43.556	106.732	62.587	1.00	0.00	O
ATOM	3661	NE2	GLN	385	45.494	105.897	63.427	1.00	0.00	N
ATOM	3662	1HE2	GLN	385	45.841	106.850	63.540	1.00	0.00	H
ATOM	3663	2HE2	GLN	385	46.065	105.094	63.691	1.00	0.00	H
ATOM	3664	C	GLN	385	43.999	102.644	60.285	1.00	0.00	C
ATOM	3665	O	GLN	385	43.508	101.740	59.615	1.00	0.00	O
ATOM	3666	N	SER	386	45.090	102.496	61.082	1.00	0.00	N
ATOM	3667	HN	SER	386	45.421	103.310	61.600	1.00	0.00	H
ATOM	3668	CA	SER	386	45.807	101.253	61.237	1.00	0.00	C
ATOM	3669	CB	SER	386	46.992	101.368	62.217	1.00	0.00	C
ATOM	3670	OG	SER	386	46.548	101.793	63.497	1.00	0.00	O
ATOM	3671	HG	SER	386	47.278	101.864	64.101	1.00	0.00	H
ATOM	3672	C	SER	386	44.924	100.118	61.673	1.00	0.00	C
ATOM	3673	O	SER	386	44.045	99.704	60.943	1.00	0.00	O
ATOM	3674	N	GLY	387	44.982	99.710	62.945	1.00	0.00	N
ATOM	3675	HN	GLY	387	45.486	100.309	63.599	1.00	0.00	H
ATOM	3676	CA	GLY	387	44.399	98.500	63.484	1.00	0.00	C
ATOM	3677	C	GLY	387	42.927	98.338	63.169	1.00	0.00	C
ATOM	3678	O	GLY	387	42.361	97.272	63.403	1.00	0.00	O
ATOM	3679	N	GLN	388	42.237	99.408	62.749	1.00	0.00	N
ATOM	3680	HN	GLN	388	42.735	100.294	62.663	1.00	0.00	H
ATOM	3681	CA	GLN	388	40.842	99.387	62.413	1.00	0.00	C
ATOM	3682	CB	GLN	388	40.347	100.704	61.802	1.00	0.00	C
ATOM	3683	CG	GLN	388	40.448	101.893	62.751	1.00	0.00	C
ATOM	3684	CD	GLN	388	39.916	103.104	62.005	1.00	0.00	C
ATOM	3685	OE1	GLN	388	39.864	103.121	60.776	1.00	0.00	O
ATOM	3686	NE2	GLN	388	39.499	104.147	62.770	1.00	0.00	N
ATOM	3687	1HE2	GLN	388	39.142	104.960	62.269	1.00	0.00	H
ATOM	3688	2HE2	GLN	388	39.542	104.133	63.789	1.00	0.00	H
ATOM	3689	C	GLN	388	40.508	98.324	61.413	1.00	0.00	C
ATOM	3690	O	GLN	388	41.348	97.531	60.983	1.00	0.00	O
ATOM	3691	N	THR	389	39.191	98.234	61.121	1.00	0.00	N
ATOM	3692	HN	THR	389	38.540	98.836	61.625	1.00	0.00	H
ATOM	3693	CA	THR	389	38.666	97.336	60.140	1.00	0.00	C
ATOM	3694	CB	THR	389	38.086	96.102	60.753	1.00	0.00	C
ATOM	3695	OG1	THR	389	39.061	95.431	61.533	1.00	0.00	O
ATOM	3696	HG1	THR	389	38.692	94.647	61.923	1.00	0.00	H
ATOM	3697	CG2	THR	389	37.625	95.187	59.622	1.00	0.00	C

ATOM	3698	C	THR	389	37.527	98.078	59.497	1.00	0.00	C
ATOM	3699	O	THR	389	36.638	98.563	60.197	1.00	0.00	O
ATOM	3700	N	VAL	390	37.496	98.169	58.148	1.00	0.00	N
ATOM	3701	HN	VAL	390	38.200	97.695	57.583	1.00	0.00	H
ATOM	3702	CA	VAL	390	36.457	98.944	57.519	1.00	0.00	C
ATOM	3703	CB	VAL	390	36.956	99.986	56.559	1.00	0.00	C
ATOM	3704	CG1	VAL	390	37.943	100.907	57.284	1.00	0.00	C
ATOM	3705	CG2	VAL	390	37.524	99.292	55.314	1.00	0.00	C
ATOM	3706	C	VAL	390	35.609	98.041	56.677	1.00	0.00	C
ATOM	3707	O	VAL	390	36.095	97.079	56.082	1.00	0.00	O
ATOM	3708	N	ALA	391	34.299	98.356	56.584	1.00	0.00	N
ATOM	3709	HN	ALA	391	33.938	99.182	57.061	1.00	0.00	H
ATOM	3710	CA	ALA	391	33.413	97.528	55.813	1.00	0.00	C
ATOM	3711	CB	ALA	391	32.134	97.119	56.566	1.00	0.00	C
ATOM	3712	C	ALA	391	32.977	98.257	54.577	1.00	0.00	C
ATOM	3713	O	ALA	391	32.574	99.417	54.614	1.00	0.00	O
ATOM	3714	N	LEU	392	33.048	97.577	53.421	1.00	0.00	N
ATOM	3715	HN	LEU	392	33.421	96.628	53.405	1.00	0.00	H
ATOM	3716	CA	LEU	392	32.595	98.196	52.209	1.00	0.00	C
ATOM	3717	CB	LEU	392	33.627	98.147	51.070	1.00	0.00	C
ATOM	3718	CG	LEU	392	34.771	99.158	51.276	1.00	0.00	C
ATOM	3719	CD1	LEU	392	35.420	99.000	52.660	1.00	0.00	C
ATOM	3720	CD2	LEU	392	35.792	99.075	50.131	1.00	0.00	C
ATOM	3721	C	LEU	392	31.341	97.511	51.786	1.00	0.00	C
ATOM	3722	O	LEU	392	31.224	96.286	51.837	1.00	0.00	O
ATOM	3723	N	VAL	393	30.335	98.301	51.380	1.00	0.00	N
ATOM	3724	HN	VAL	393	30.451	99.313	51.319	1.00	0.00	H
ATOM	3725	CA	VAL	393	29.095	97.678	51.035	1.00	0.00	C
ATOM	3726	CB	VAL	393	28.013	98.103	51.985	1.00	0.00	C
ATOM	3727	CG1	VAL	393	26.706	97.425	51.591	1.00	0.00	C
ATOM	3728	CG2	VAL	393	28.455	97.772	53.420	1.00	0.00	C
ATOM	3729	C	VAL	393	28.708	98.069	49.634	1.00	0.00	C
ATOM	3730	O	VAL	393	28.451	99.238	49.372	1.00	0.00	O
ATOM	3731	N	GLY	394	28.614	97.091	48.702	1.00	0.00	N
ATOM	3732	HN	GLY	394	28.786	96.126	48.983	1.00	0.00	H
ATOM	3733	CA	GLY	394	28.278	97.367	47.322	1.00	0.00	C
ATOM	3734	C	GLY	394	27.537	96.175	46.784	1.00	0.00	C
ATOM	3735	O	GLY	394	27.344	95.195	47.504	1.00	0.00	O
ATOM	3736	N	ASN	395	27.079	96.231	45.504	1.00	0.00	N
ATOM	3737	HN	ASN	395	27.270	97.050	44.926	1.00	0.00	H
ATOM	3738	CA	ASN	395	26.322	95.126	44.969	1.00	0.00	C
ATOM	3739	CB	ASN	395	24.830	95.183	45.347	1.00	0.00	C
ATOM	3740	CG	ASN	395	24.661	94.656	46.768	1.00	0.00	C
ATOM	3741	OD1	ASN	395	25.023	93.522	47.074	1.00	0.00	O
ATOM	3742	ND2	ASN	395	24.097	95.497	47.673	1.00	0.00	N
ATOM	3743	1HD2	ASN	395	23.984	95.145	48.623	1.00	0.00	H
ATOM	3744	2HD2	ASN	395	23.797	96.438	47.419	1.00	0.00	H
ATOM	3745	C	ASN	395	26.374	95.053	43.470	1.00	0.00	C
ATOM	3746	O	ASN	395	26.647	93.990	42.916	1.00	0.00	O
ATOM	3747	N	SER	396	26.128	96.177	42.759	1.00	0.00	N
ATOM	3748	HN	SER	396	26.004	97.056	43.261	1.00	0.00	H
ATOM	3749	CA	SER	396	26.034	96.184	41.318	1.00	0.00	C
ATOM	3750	CB	SER	396	25.578	97.528	40.736	1.00	0.00	C
ATOM	3751	OG	SER	396	24.248	97.802	41.141	1.00	0.00	O
ATOM	3752	HG	SER	396	23.966	98.634	40.781	1.00	0.00	H
ATOM	3753	C	SER	396	27.352	95.830	40.720	1.00	0.00	C
ATOM	3754	O	SER	396	27.506	95.830	39.501	1.00	0.00	O
ATOM	3755	N	GLY	397	28.361	95.591	41.567	1.00	0.00	N
ATOM	3756	HN	GLY	397	28.238	95.783	42.561	1.00	0.00	H
ATOM	3757	CA	GLY	397	29.605	95.072	41.101	1.00	0.00	C
ATOM	3758	C	GLY	397	30.436	96.167	40.536	1.00	0.00	C
ATOM	3759	O	GLY	397	30.064	97.331	40.520	1.00	0.00	O
ATOM	3760	N	CYS	398	31.592	95.803	39.981	1.00	0.00	N
ATOM	3761	HN	CYS	398	31.867	94.821	39.959	1.00	0.00	H
ATOM	3762	CA	CYS	398	32.439	96.799	39.419	1.00	0.00	C
ATOM	3763	CB	CYS	398	31.856	97.437	38.145	1.00	0.00	C
ATOM	3764	SG	CYS	398	31.719	96.256	36.770	1.00	0.00	S
ATOM	3765	C	CYS	398	32.774	97.907	40.369	1.00	0.00	C
ATOM	3766	O	CYS	398	32.537	99.075	40.061	1.00	0.00	O
ATOM	3767	N	GLY	399	33.426	97.585	41.509	1.00	0.00	N
ATOM	3768	HN	GLY	399	33.584	96.613	41.774	1.00	0.00	H
ATOM	3769	CA	GLY	399	33.887	98.670	42.333	1.00	0.00	C
ATOM	3770	C	GLY	399	34.401	98.228	43.676	1.00	0.00	C
ATOM	3771	O	GLY	399	35.609	98.304	43.909	1.00	0.00	O

ATOM	3772	N	LYS	400	33.553	97.697	44.572	1.00	0.00	N
ATOM	3773	HN	LYS	400	32.589	97.490	44.311	1.00	0.00	H
ATOM	3774	CA	LYS	400	34.024	97.422	45.910	1.00	0.00	C
ATOM	3775	CB	LYS	400	32.976	96.730	46.794	1.00	0.00	C
ATOM	3776	CG	LYS	400	31.659	97.493	46.903	1.00	0.00	C
ATOM	3777	CD	LYS	400	30.861	97.446	45.603	1.00	0.00	C
ATOM	3778	CE	LYS	400	30.557	96.017	45.156	1.00	0.00	C
ATOM	3779	NZ	LYS	400	29.928	96.036	43.823	1.00	0.00	N
ATOM	3780	HZ1	LYS	400	29.725	95.082	43.525	1.00	0.00	H
ATOM	3781	HZ2	LYS	400	30.492	96.540	43.139	1.00	0.00	H
ATOM	3782	HZ3	LYS	400	29.100	96.631	43.798	1.00	0.00	H
ATOM	3783	C	LYS	400	35.172	96.478	45.847	1.00	0.00	C
ATOM	3784	O	LYS	400	36.288	96.833	46.221	1.00	0.00	O
ATOM	3785	N	SER	401	34.939	95.317	45.218	1.00	0.00	N
ATOM	3786	HN	SER	401	34.032	95.170	44.776	1.00	0.00	H
ATOM	3787	CA	SER	401	35.912	94.285	45.146	1.00	0.00	C
ATOM	3788	CB	SER	401	35.463	93.107	44.270	1.00	0.00	C
ATOM	3789	OG	SER	401	35.315	93.536	42.924	1.00	0.00	O
ATOM	3790	HG	SER	401	35.037	92.807	42.382	1.00	0.00	H
ATOM	3791	C	SER	401	37.124	94.873	44.512	1.00	0.00	C
ATOM	3792	O	SER	401	38.210	94.486	44.926	1.00	0.00	O
ATOM	3793	N	THR	402	36.962	95.815	43.537	1.00	0.00	N
ATOM	3794	HN	THR	402	36.016	96.134	43.331	1.00	0.00	H
ATOM	3795	CA	THR	402	38.055	96.387	42.779	1.00	0.00	C
ATOM	3796	CB	THR	402	37.666	97.059	41.485	1.00	0.00	C
ATOM	3797	OG1	THR	402	38.805	97.099	40.648	1.00	0.00	O
ATOM	3798	HG1	THR	402	39.096	96.205	40.514	1.00	0.00	H
ATOM	3799	CG2	THR	402	37.197	98.503	41.702	1.00	0.00	C
ATOM	3800	C	THR	402	38.951	97.297	43.567	1.00	0.00	C
ATOM	3801	O	THR	402	40.161	97.293	43.361	1.00	0.00	O
ATOM	3802	N	THR	403	38.421	98.148	44.458	1.00	0.00	N
ATOM	3803	HN	THR	403	37.412	98.247	44.567	1.00	0.00	H
ATOM	3804	CA	THR	403	39.342	98.913	45.251	1.00	0.00	C
ATOM	3805	CB	THR	403	38.668	99.890	46.171	1.00	0.00	C
ATOM	3806	OG1	THR	403	37.768	99.209	47.033	1.00	0.00	O
ATOM	3807	HG1	THR	403	38.229	98.557	47.548	1.00	0.00	H
ATOM	3808	CG2	THR	403	37.923	100.945	45.338	1.00	0.00	C
ATOM	3809	C	THR	403	40.065	97.912	46.099	1.00	0.00	C
ATOM	3810	O	THR	403	41.265	98.018	46.341	1.00	0.00	O
ATOM	3811	N	VAL	404	39.327	96.881	46.551	1.00	0.00	N
ATOM	3812	HN	VAL	404	38.334	96.853	46.319	1.00	0.00	H
ATOM	3813	CA	VAL	404	39.876	95.822	47.344	1.00	0.00	C
ATOM	3814	CB	VAL	404	38.857	94.772	47.678	1.00	0.00	C
ATOM	3815	CG1	VAL	404	39.560	93.616	48.408	1.00	0.00	C
ATOM	3816	CG2	VAL	404	37.726	95.425	48.490	1.00	0.00	C
ATOM	3817	C	VAL	404	40.900	95.201	46.481	1.00	0.00	C
ATOM	3818	O	VAL	404	41.826	94.549	46.965	1.00	0.00	O
ATOM	3819	N	GLN	405	40.663	95.314	45.162	1.00	0.00	N
ATOM	3820	HN	GLN	405	39.829	95.809	44.846	1.00	0.00	H
ATOM	3821	CA	GLN	405	41.546	94.760	44.202	1.00	0.00	C
ATOM	3822	CB	GLN	405	40.984	94.751	42.770	1.00	0.00	C
ATOM	3823	CG	GLN	405	40.076	93.565	42.484	1.00	0.00	C
ATOM	3824	CD	GLN	405	40.986	92.348	42.518	1.00	0.00	C
ATOM	3825	OE1	GLN	405	42.208	92.473	42.570	1.00	0.00	O
ATOM	3826	NE2	GLN	405	40.387	91.131	42.492	1.00	0.00	N
ATOM	3827	1HE2	GLN	405	39.373	91.027	42.449	1.00	0.00	H
ATOM	3828	2HE2	GLN	405	40.998	90.314	42.515	1.00	0.00	H
ATOM	3829	C	GLN	405	42.869	95.451	44.100	1.00	0.00	C
ATOM	3830	O	GLN	405	43.887	94.861	44.438	1.00	0.00	O
ATOM	3831	N	LEU	406	42.875	96.748	43.740	1.00	0.00	N
ATOM	3832	HN	LEU	406	41.976	97.223	43.658	1.00	0.00	H
ATOM	3833	CA	LEU	406	44.061	97.506	43.464	1.00	0.00	C
ATOM	3834	CB	LEU	406	43.755	98.898	42.876	1.00	0.00	C
ATOM	3835	CG	LEU	406	43.056	99.886	43.825	1.00	0.00	C
ATOM	3836	CD1	LEU	406	44.040	100.484	44.843	1.00	0.00	C
ATOM	3837	CD2	LEU	406	42.268	100.944	43.037	1.00	0.00	C
ATOM	3838	C	LEU	406	44.832	97.625	44.723	1.00	0.00	C
ATOM	3839	O	LEU	406	45.991	98.028	44.734	1.00	0.00	O
ATOM	3840	N	MET	407	44.171	97.319	45.840	1.00	0.00	N
ATOM	3841	HN	MET	407	43.189	97.050	45.782	1.00	0.00	H
ATOM	3842	CA	MET	407	44.809	97.360	47.114	1.00	0.00	C
ATOM	3843	CB	MET	407	43.863	96.983	48.265	1.00	0.00	C
ATOM	3844	CG	MET	407	44.521	97.024	49.645	1.00	0.00	C
ATOM	3845	SD	MET	407	44.987	98.687	50.212	1.00	0.00	S

ATOM	3846	CE	MET	407	46.627	98.656	49.433	1.00	0.00	C
ATOM	3847	C	MET	407	45.926	96.351	47.060	1.00	0.00	C
ATOM	3848	O	MET	407	46.768	96.284	47.953	1.00	0.00	O
ATOM	3849	N	GLN	408	45.795	95.373	46.152	1.00	0.00	N
ATOM	3850	HN	GLN	408	44.899	95.314	45.669	1.00	0.00	H
ATOM	3851	CA	GLN	408	46.788	94.400	45.790	1.00	0.00	C
ATOM	3852	CB	GLN	408	46.321	92.927	45.825	1.00	0.00	C
ATOM	3853	CG	GLN	408	45.154	92.504	44.950	1.00	0.00	C
ATOM	3854	CD	GLN	408	44.588	91.239	45.583	1.00	0.00	C
ATOM	3855	OE1	GLN	408	43.800	90.520	44.973	1.00	0.00	O
ATOM	3856	NE2	GLN	408	44.994	90.964	46.852	1.00	0.00	N
ATOM	3857	1HE2	GLN	408	45.648	91.561	47.358	1.00	0.00	H
ATOM	3858	2HE2	GLN	408	44.615	90.117	47.276	1.00	0.00	H
ATOM	3859	C	GLN	408	47.631	94.793	44.603	1.00	0.00	C
ATOM	3860	O	GLN	408	48.422	93.995	44.108	1.00	0.00	O
ATOM	3861	N	ARG	409	47.362	95.967	44.005	1.00	0.00	N
ATOM	3862	HN	ARG	409	46.579	96.518	44.356	1.00	0.00	H
ATOM	3863	CA	ARG	409	48.117	96.487	42.899	1.00	0.00	C
ATOM	3864	CB	ARG	409	49.626	96.341	43.151	1.00	0.00	C
ATOM	3865	CG	ARG	409	50.480	97.451	42.541	1.00	0.00	C
ATOM	3866	CD	ARG	409	51.150	97.143	41.205	1.00	0.00	C
ATOM	3867	NE	ARG	409	52.174	98.213	41.037	1.00	0.00	N
ATOM	3868	HE	ARG	409	52.416	98.798	41.837	1.00	0.00	H
ATOM	3869	CZ	ARG	409	52.796	98.432	39.843	1.00	0.00	C
ATOM	3870	NH1	ARG	409	52.458	97.699	38.744	1.00	0.00	N
ATOM	3871	1HH1	ARG	409	52.923	97.863	37.851	1.00	0.00	H
ATOM	3872	2HH1	ARG	409	51.742	96.976	38.811	1.00	0.00	H
ATOM	3873	NH2	ARG	409	53.754	99.400	39.753	1.00	0.00	N
ATOM	3874	1HH2	ARG	409	54.219	99.564	38.860	1.00	0.00	H
ATOM	3875	2HH2	ARG	409	54.007	99.948	40.575	1.00	0.00	H
ATOM	3876	C	ARG	409	47.740	95.670	41.735	1.00	0.00	C
ATOM	3877	O	ARG	409	48.412	95.664	40.704	1.00	0.00	O
ATOM	3878	N	LEU	410	46.557	95.054	41.874	1.00	0.00	N
ATOM	3879	HN	LEU	410	46.008	95.221	42.717	1.00	0.00	H
ATOM	3880	CA	LEU	410	46.048	94.179	40.885	1.00	0.00	C
ATOM	3881	CB	LEU	410	44.622	93.698	41.199	1.00	0.00	C
ATOM	3882	CG	LEU	410	44.212	92.453	40.391	1.00	0.00	C
ATOM	3883	CD1	LEU	410	44.252	92.696	38.875	1.00	0.00	C
ATOM	3884	CD2	LEU	410	45.045	91.237	40.827	1.00	0.00	C
ATOM	3885	C	LEU	410	46.015	95.001	39.630	1.00	0.00	C
ATOM	3886	O	LEU	410	46.402	94.509	38.580	1.00	0.00	O
ATOM	3887	N	TYR	411	45.606	96.287	39.713	1.00	0.00	N
ATOM	3888	HN	TYR	411	45.266	96.630	40.611	1.00	0.00	H
ATOM	3889	CA	TYR	411	45.627	97.198	38.594	1.00	0.00	C
ATOM	3890	CB	TYR	411	44.232	97.697	38.173	1.00	0.00	C
ATOM	3891	CG	TYR	411	43.404	96.608	37.589	1.00	0.00	C
ATOM	3892	CD1	TYR	411	42.995	95.545	38.359	1.00	0.00	C
ATOM	3893	CD2	TYR	411	42.992	96.684	36.277	1.00	0.00	C
ATOM	3894	CE1	TYR	411	42.217	94.551	37.816	1.00	0.00	C
ATOM	3895	CE2	TYR	411	42.214	95.693	35.728	1.00	0.00	C
ATOM	3896	CZ	TYR	411	41.830	94.624	36.500	1.00	0.00	C
ATOM	3897	OH	TYR	411	41.031	93.602	35.950	1.00	0.00	O
ATOM	3898	HH	TYR	411	40.765	92.863	36.484	1.00	0.00	H
ATOM	3899	C	TYR	411	46.279	98.440	39.078	1.00	0.00	C
ATOM	3900	O	TYR	411	46.051	98.835	40.219	1.00	0.00	O
ATOM	3901	N	ASP	412	47.105	99.096	38.237	1.00	0.00	N
ATOM	3902	HN	ASP	412	47.338	98.723	37.317	1.00	0.00	H
ATOM	3903	CA	ASP	412	47.641	100.346	38.700	1.00	0.00	C
ATOM	3904	CB	ASP	412	48.794	100.922	37.860	1.00	0.00	C
ATOM	3905	CG	ASP	412	50.087	100.226	38.251	1.00	0.00	C
ATOM	3906	OD1	ASP	412	50.039	99.298	39.103	1.00	0.00	O
ATOM	3907	OD2	ASP	412	51.150	100.633	37.712	1.00	0.00	O
ATOM	3908	C	ASP	412	46.527	101.352	38.663	1.00	0.00	C
ATOM	3909	O	ASP	412	45.634	101.260	37.827	1.00	0.00	O
ATOM	3910	N	PRO	413	46.537	102.303	39.563	1.00	0.00	N
ATOM	3911	CA	PRO	413	45.525	103.326	39.661	1.00	0.00	C
ATOM	3912	CD	PRO	413	47.671	102.554	40.436	1.00	0.00	C
ATOM	3913	CB	PRO	413	45.883	104.126	40.911	1.00	0.00	C
ATOM	3914	CG	PRO	413	47.412	103.957	41.015	1.00	0.00	C
ATOM	3915	C	PRO	413	45.517	104.192	38.444	1.00	0.00	C
ATOM	3916	O	PRO	413	46.584	104.620	38.008	1.00	0.00	O
ATOM	3917	N	THR	414	44.322	104.487	37.898	1.00	0.00	N
ATOM	3918	HN	THR	414	43.466	104.122	38.316	1.00	0.00	H
ATOM	3919	CA	THR	414	44.254	105.314	36.730	1.00	0.00	C

ATOM	3920	CB	THR	414	42.854	105.461	36.213	1.00	0.00	C
ATOM	3921	OG1	THR	414	42.311	104.187	35.900	1.00	0.00	O
ATOM	3922	HG1	THR	414	42.292	103.640	36.676	1.00	0.00	H
ATOM	3923	CG2	THR	414	42.885	106.347	34.956	1.00	0.00	C
ATOM	3924	C	THR	414	44.752	106.684	37.073	1.00	0.00	C
ATOM	3925	O	THR	414	45.621	107.227	36.393	1.00	0.00	O
ATOM	3926	N	GLU	415	44.220	107.278	38.159	1.00	0.00	N
ATOM	3927	HN	GLU	415	43.512	106.786	38.703	1.00	0.00	H
ATOM	3928	CA	GLU	415	44.634	108.593	38.563	1.00	0.00	C
ATOM	3929	CB	GLU	415	43.723	109.741	38.095	1.00	0.00	C
ATOM	3930	CG	GLU	415	44.052	110.254	36.696	1.00	0.00	C
ATOM	3931	CD	GLU	415	45.298	111.121	36.829	1.00	0.00	C
ATOM	3932	OE1	GLU	415	45.774	111.291	37.984	1.00	0.00	O
ATOM	3933	OE2	GLU	415	45.787	111.627	35.784	1.00	0.00	O
ATOM	3934	C	GLU	415	44.640	108.640	40.044	1.00	0.00	C
ATOM	3935	O	GLU	415	44.051	107.793	40.713	1.00	0.00	O
ATOM	3936	N	GLY	416	45.319	109.660	40.595	1.00	0.00	N
ATOM	3937	HN	GLY	416	45.776	110.356	40.006	1.00	0.00	H
ATOM	3938	CA	GLY	416	45.390	109.753	42.016	1.00	0.00	C
ATOM	3939	C	GLY	416	46.356	108.702	42.431	1.00	0.00	C
ATOM	3940	O	GLY	416	47.248	108.341	41.666	1.00	0.00	O
ATOM	3941	N	MET	417	46.217	108.190	43.667	1.00	0.00	N
ATOM	3942	HN	MET	417	45.474	108.511	44.288	1.00	0.00	H
ATOM	3943	CA	MET	417	47.143	107.180	44.087	1.00	0.00	C
ATOM	3944	CB	MET	417	48.537	107.709	44.477	1.00	0.00	C
ATOM	3945	CG	MET	417	49.420	108.192	43.331	1.00	0.00	C
ATOM	3946	SD	MET	417	50.082	106.875	42.266	1.00	0.00	S
ATOM	3947	CE	MET	417	51.015	108.009	41.197	1.00	0.00	C
ATOM	3948	C	MET	417	46.645	106.559	45.341	1.00	0.00	C
ATOM	3949	O	MET	417	45.628	106.955	45.908	1.00	0.00	O
ATOM	3950	N	VAL	418	47.384	105.529	45.785	1.00	0.00	N
ATOM	3951	HN	VAL	418	48.170	105.211	45.219	1.00	0.00	H
ATOM	3952	CA	VAL	418	47.113	104.862	47.017	1.00	0.00	C
ATOM	3953	CB	VAL	418	46.445	103.533	46.831	1.00	0.00	C
ATOM	3954	CG1	VAL	418	47.198	102.766	45.734	1.00	0.00	C
ATOM	3955	CG2	VAL	418	46.438	102.798	48.181	1.00	0.00	C
ATOM	3956	C	VAL	418	48.425	104.641	47.677	1.00	0.00	C
ATOM	3957	O	VAL	418	49.450	104.467	47.017	1.00	0.00	O
ATOM	3958	N	SER	419	48.427	104.673	49.020	1.00	0.00	N
ATOM	3959	HN	SER	419	47.568	104.845	49.543	1.00	0.00	H
ATOM	3960	CA	SER	419	49.666	104.459	49.693	1.00	0.00	C
ATOM	3961	CB	SER	419	50.249	105.728	50.339	1.00	0.00	C
ATOM	3962	OG	SER	419	49.558	106.027	51.542	1.00	0.00	O
ATOM	3963	HG	SER	419	49.918	106.810	51.941	1.00	0.00	H
ATOM	3964	C	SER	419	49.423	103.493	50.804	1.00	0.00	C
ATOM	3965	O	SER	419	48.388	103.536	51.467	1.00	0.00	O
ATOM	3966	N	VAL	420	50.376	102.563	50.997	1.00	0.00	N
ATOM	3967	HN	VAL	420	51.143	102.499	50.328	1.00	0.00	H
ATOM	3968	CA	VAL	420	50.353	101.662	52.105	1.00	0.00	C
ATOM	3969	CB	VAL	420	50.913	100.303	51.801	1.00	0.00	C
ATOM	3970	CG1	VAL	420	50.996	99.504	53.114	1.00	0.00	C
ATOM	3971	CG2	VAL	420	50.045	99.639	50.717	1.00	0.00	C
ATOM	3972	C	VAL	420	51.265	102.296	53.070	1.00	0.00	C
ATOM	3973	O	VAL	420	52.203	102.953	52.625	1.00	0.00	O
ATOM	3974	N	ASP	421	51.030	102.109	54.388	1.00	0.00	N
ATOM	3975	HN	ASP	421	50.286	101.486	54.702	1.00	0.00	H
ATOM	3976	CA	ASP	421	51.849	102.806	55.332	1.00	0.00	C
ATOM	3977	CB	ASP	421	53.335	102.403	55.244	1.00	0.00	C
ATOM	3978	CG	ASP	421	54.091	103.007	56.420	1.00	0.00	C
ATOM	3979	OD1	ASP	421	53.423	103.542	57.344	1.00	0.00	O
ATOM	3980	OD2	ASP	421	55.349	102.955	56.398	1.00	0.00	O
ATOM	3981	C	ASP	421	51.698	104.237	54.917	1.00	0.00	C
ATOM	3982	O	ASP	421	50.579	104.740	54.819	1.00	0.00	O
ATOM	3983	N	GLY	422	52.847	104.923	54.787	1.00	0.00	N
ATOM	3984	HN	GLY	422	53.668	104.456	55.171	1.00	0.00	H
ATOM	3985	CA	GLY	422	53.107	106.205	54.197	1.00	0.00	C
ATOM	3986	C	GLY	422	53.385	106.192	52.704	1.00	0.00	C
ATOM	3987	O	GLY	422	53.261	107.228	52.052	1.00	0.00	O
ATOM	3988	N	GLN	423	53.887	105.060	52.150	1.00	0.00	N
ATOM	3989	HN	GLN	423	53.884	104.207	52.709	1.00	0.00	H
ATOM	3990	CA	GLN	423	54.427	104.997	50.809	1.00	0.00	C
ATOM	3991	CB	GLN	423	55.572	103.982	50.688	1.00	0.00	C
ATOM	3992	CG	GLN	423	56.772	104.304	51.579	1.00	0.00	C
ATOM	3993	CD	GLN	423	57.663	103.076	51.553	1.00	0.00	C

ATOM	3994	OE1	GLN	423	57.188	101.961	51.749	1.00	0.00	O
ATOM	3995	NE2	GLN	423	58.982	103.276	51.291	1.00	0.00	N
ATOM	3996	1HE2	GLN	423	59.581	102.451	51.274	1.00	0.00	H
ATOM	3997	2HE2	GLN	423	59.377	104.202	51.128	1.00	0.00	H
ATOM	3998	C	GLN	423	53.402	104.595	49.797	1.00	0.00	C
ATOM	3999	O	GLN	423	52.368	104.012	50.114	1.00	0.00	O
ATOM	4000	N	ASP	424	53.701	104.917	48.522	1.00	0.00	N
ATOM	4001	HN	ASP	424	54.588	105.390	48.348	1.00	0.00	H
ATOM	4002	CA	ASP	424	52.861	104.641	47.396	1.00	0.00	C
ATOM	4003	CB	ASP	424	53.290	105.473	46.169	1.00	0.00	C
ATOM	4004	CG	ASP	424	52.451	105.121	44.952	1.00	0.00	C
ATOM	4005	OD1	ASP	424	52.547	103.961	44.476	1.00	0.00	O
ATOM	4006	OD2	ASP	424	51.706	106.014	44.472	1.00	0.00	O
ATOM	4007	C	ASP	424	53.009	103.191	47.065	1.00	0.00	C
ATOM	4008	O	ASP	424	54.110	102.668	46.916	1.00	0.00	O
ATOM	4009	N	ILE	425	51.870	102.513	46.883	1.00	0.00	N
ATOM	4010	HN	ILE	425	50.990	103.029	46.891	1.00	0.00	H
ATOM	4011	CA	ILE	425	51.829	101.092	46.677	1.00	0.00	C
ATOM	4012	CB	ILE	425	50.413	100.630	46.496	1.00	0.00	C
ATOM	4013	CG1	ILE	425	50.358	99.114	46.316	1.00	0.00	C
ATOM	4014	CG2	ILE	425	49.786	101.414	45.334	1.00	0.00	C
ATOM	4015	CD1	ILE	425	48.939	98.554	46.369	1.00	0.00	C
ATOM	4016	C	ILE	425	52.607	100.663	45.460	1.00	0.00	C
ATOM	4017	O	ILE	425	53.439	99.759	45.538	1.00	0.00	O
ATOM	4018	N	ARG	426	52.420	101.357	44.326	1.00	0.00	N
ATOM	4019	HN	ARG	426	51.866	102.212	44.376	1.00	0.00	H
ATOM	4020	CA	ARG	426	52.949	100.974	43.048	1.00	0.00	C
ATOM	4021	CB	ARG	426	52.650	102.044	41.993	1.00	0.00	C
ATOM	4022	CG	ARG	426	51.154	102.318	41.853	1.00	0.00	C
ATOM	4023	CD	ARG	426	50.841	103.639	41.154	1.00	0.00	C
ATOM	4024	NE	ARG	426	51.264	103.508	39.735	1.00	0.00	N
ATOM	4025	HE	ARG	426	51.783	102.687	39.425	1.00	0.00	H
ATOM	4026	CZ	ARG	426	50.950	104.498	38.852	1.00	0.00	C
ATOM	4027	NH1	ARG	426	50.246	105.586	39.280	1.00	0.00	N
ATOM	4028	1HH1	ARG	426	50.011	106.327	38.619	1.00	0.00	H
ATOM	4029	2HH1	ARG	426	49.951	105.657	40.254	1.00	0.00	H
ATOM	4030	NH2	ARG	426	51.345	104.403	37.549	1.00	0.00	N
ATOM	4031	1HH2	ARG	426	51.110	105.144	36.888	1.00	0.00	H
ATOM	4032	2HH2	ARG	426	51.871	103.590	37.229	1.00	0.00	H
ATOM	4033	C	ARG	426	54.432	100.855	43.154	1.00	0.00	C
ATOM	4034	O	ARG	426	55.041	99.974	42.546	1.00	0.00	O
ATOM	4035	N	THR	427	55.036	101.740	43.961	1.00	0.00	N
ATOM	4036	HN	THR	427	54.454	102.380	44.501	1.00	0.00	H
ATOM	4037	CA	THR	427	56.456	101.829	44.101	1.00	0.00	C
ATOM	4038	CB	THR	427	56.820	102.814	45.165	1.00	0.00	C
ATOM	4039	OG1	THR	427	56.289	104.091	44.866	1.00	0.00	O
ATOM	4040	HG1	THR	427	56.520	104.717	45.542	1.00	0.00	H
ATOM	4041	CG2	THR	427	58.339	102.898	45.240	1.00	0.00	C
ATOM	4042	C	THR	427	57.033	100.526	44.560	1.00	0.00	C
ATOM	4043	O	THR	427	58.075	100.099	44.071	1.00	0.00	O
ATOM	4044	N	ILE	428	56.367	99.869	45.520	1.00	0.00	N
ATOM	4045	HN	ILE	428	55.466	100.240	45.821	1.00	0.00	H
ATOM	4046	CA	ILE	428	56.853	98.670	46.150	1.00	0.00	C
ATOM	4047	CB	ILE	428	55.996	98.236	47.296	1.00	0.00	C
ATOM	4048	CG1	ILE	428	55.695	99.390	48.250	1.00	0.00	C
ATOM	4049	CG2	ILE	428	56.726	97.089	47.999	1.00	0.00	C
ATOM	4050	CD1	ILE	428	54.551	99.060	49.206	1.00	0.00	C
ATOM	4051	C	ILE	428	56.777	97.506	45.197	1.00	0.00	C
ATOM	4052	O	ILE	428	55.958	97.485	44.280	1.00	0.00	O
ATOM	4053	N	ASN	429	57.667	96.506	45.399	1.00	0.00	N
ATOM	4054	HN	ASN	429	58.359	96.629	46.138	1.00	0.00	H
ATOM	4055	CA	ASN	429	57.705	95.281	44.644	1.00	0.00	C
ATOM	4056	CB	ASN	429	58.907	94.394	45.013	1.00	0.00	C
ATOM	4057	CG	ASN	429	58.748	93.045	44.332	1.00	0.00	C
ATOM	4058	OD1	ASN	429	58.697	92.011	44.995	1.00	0.00	O
ATOM	4059	ND2	ASN	429	58.657	93.049	42.976	1.00	0.00	N
ATOM	4060	1HD2	ASN	429	58.699	93.907	42.426	1.00	0.00	H
ATOM	4061	2HD2	ASN	429	58.550	92.143	42.519	1.00	0.00	H
ATOM	4062	C	ASN	429	56.463	94.478	44.905	1.00	0.00	C
ATOM	4063	O	ASN	429	55.897	94.505	45.996	1.00	0.00	O
ATOM	4064	N	VAL	430	56.007	93.754	43.859	1.00	0.00	N
ATOM	4065	HN	VAL	430	56.564	93.743	43.005	1.00	0.00	H
ATOM	4066	CA	VAL	430	54.781	92.996	43.877	1.00	0.00	C
ATOM	4067	CB	VAL	430	54.429	92.465	42.519	1.00	0.00	C

ATOM	4068	CG1	VAL	430	53.127	91.649	42.623	1.00	0.00	C
ATOM	4069	CG2	VAL	430	54.364	93.646	41.537	1.00	0.00	C
ATOM	4070	C	VAL	430	54.777	91.820	44.809	1.00	0.00	C
ATOM	4071	O	VAL	430	53.998	91.819	45.761	1.00	0.00	O
ATOM	4072	N	ARG	431	55.703	90.846	44.625	1.00	0.00	N
ATOM	4073	HN	ARG	431	56.464	91.002	43.964	1.00	0.00	H
ATOM	4074	CA	ARG	431	55.639	89.593	45.341	1.00	0.00	C
ATOM	4075	CB	ARG	431	56.826	88.650	45.081	1.00	0.00	C
ATOM	4076	CG	ARG	431	58.176	89.218	45.515	1.00	0.00	C
ATOM	4077	CD	ARG	431	59.331	88.222	45.393	1.00	0.00	C
ATOM	4078	NE	ARG	431	59.492	87.889	43.950	1.00	0.00	N
ATOM	4079	HE	ARG	431	59.697	88.627	43.276	1.00	0.00	H
ATOM	4080	CZ	ARG	431	59.366	86.597	43.529	1.00	0.00	C
ATOM	4081	NH1	ARG	431	59.100	85.606	44.428	1.00	0.00	N
ATOM	4082	1HH1	ARG	431	59.006	84.640	44.113	1.00	0.00	H
ATOM	4083	2HH1	ARG	431	58.989	85.831	45.417	1.00	0.00	H
ATOM	4084	NH2	ARG	431	59.515	86.296	42.205	1.00	0.00	N
ATOM	4085	1HH2	ARG	431	59.421	85.330	41.890	1.00	0.00	H
ATOM	4086	2HH2	ARG	431	59.714	87.037	41.533	1.00	0.00	H
ATOM	4087	C	ARG	431	55.648	89.939	46.804	1.00	0.00	C
ATOM	4088	O	ARG	431	54.993	89.284	47.617	1.00	0.00	O
ATOM	4089	N	PHE	432	56.403	91.000	47.154	1.00	0.00	N
ATOM	4090	HN	PHE	432	56.937	91.470	46.423	1.00	0.00	H
ATOM	4091	CA	PHE	432	56.500	91.509	48.498	1.00	0.00	C
ATOM	4092	CB	PHE	432	57.540	92.651	48.553	1.00	0.00	C
ATOM	4093	CG	PHE	432	57.845	93.088	49.949	1.00	0.00	C
ATOM	4094	CD1	PHE	432	57.088	94.049	50.580	1.00	0.00	C
ATOM	4095	CD2	PHE	432	58.916	92.544	50.624	1.00	0.00	C
ATOM	4096	CE1	PHE	432	57.387	94.450	51.863	1.00	0.00	C
ATOM	4097	CE2	PHE	432	59.220	92.940	51.905	1.00	0.00	C
ATOM	4098	CZ	PHE	432	58.454	93.896	52.529	1.00	0.00	C
ATOM	4099	C	PHE	432	55.167	92.050	48.952	1.00	0.00	C
ATOM	4100	O	PHE	432	54.658	91.674	50.009	1.00	0.00	O
ATOM	4101	N	LEU	433	54.539	92.924	48.136	1.00	0.00	N
ATOM	4102	HN	LEU	433	54.935	93.130	47.219	1.00	0.00	H
ATOM	4103	CA	LEU	433	53.316	93.570	48.544	1.00	0.00	C
ATOM	4104	CB	LEU	433	52.819	94.545	47.458	1.00	0.00	C
ATOM	4105	CG	LEU	433	51.515	95.324	47.735	1.00	0.00	C
ATOM	4106	CD1	LEU	433	51.306	96.350	46.620	1.00	0.00	C
ATOM	4107	CD2	LEU	433	50.269	94.433	47.856	1.00	0.00	C
ATOM	4108	C	LEU	433	52.290	92.519	48.767	1.00	0.00	C
ATOM	4109	O	LEU	433	51.688	92.428	49.837	1.00	0.00	O
ATOM	4110	N	ARG	434	52.148	91.629	47.779	1.00	0.00	N
ATOM	4111	HN	ARG	434	52.787	91.661	46.984	1.00	0.00	H
ATOM	4112	CA	ARG	434	51.125	90.637	47.810	1.00	0.00	C
ATOM	4113	CB	ARG	434	51.195	89.690	46.603	1.00	0.00	C
ATOM	4114	CG	ARG	434	50.907	90.406	45.283	1.00	0.00	C
ATOM	4115	CD	ARG	434	49.414	90.579	45.001	1.00	0.00	C
ATOM	4116	NE	ARG	434	49.278	91.420	43.778	1.00	0.00	N
ATOM	4117	HE	ARG	434	49.111	92.422	43.865	1.00	0.00	H
ATOM	4118	CZ	ARG	434	49.377	90.851	42.542	1.00	0.00	C
ATOM	4119	NH1	ARG	434	49.672	89.523	42.427	1.00	0.00	N
ATOM	4120	1HH1	ARG	434	49.815	88.955	43.262	1.00	0.00	H
ATOM	4121	2HH1	ARG	434	49.746	89.098	41.503	1.00	0.00	H
ATOM	4122	NH2	ARG	434	49.186	91.611	41.425	1.00	0.00	N
ATOM	4123	1HH2	ARG	434	48.966	92.603	41.511	1.00	0.00	H
ATOM	4124	2HH2	ARG	434	49.260	91.186	40.501	1.00	0.00	H
ATOM	4125	C	ARG	434	51.303	89.831	49.058	1.00	0.00	C
ATOM	4126	O	ARG	434	50.330	89.351	49.634	1.00	0.00	O
ATOM	4127	N	GLU	435	52.556	89.619	49.497	1.00	0.00	N
ATOM	4128	HN	GLU	435	53.351	89.988	48.975	1.00	0.00	H
ATOM	4129	CA	GLU	435	52.771	88.870	50.706	1.00	0.00	C
ATOM	4130	CB	GLU	435	54.260	88.540	50.899	1.00	0.00	C
ATOM	4131	CG	GLU	435	54.774	87.560	49.836	1.00	0.00	C
ATOM	4132	CD	GLU	435	56.297	87.570	49.831	1.00	0.00	C
ATOM	4133	OE1	GLU	435	56.893	88.424	50.540	1.00	0.00	O
ATOM	4134	OE2	GLU	435	56.885	86.724	49.106	1.00	0.00	O
ATOM	4135	C	GLU	435	52.258	89.640	51.906	1.00	0.00	C
ATOM	4136	O	GLU	435	51.572	89.096	52.770	1.00	0.00	O
ATOM	4137	N	ILE	436	52.538	90.954	51.944	1.00	0.00	N
ATOM	4138	HN	ILE	436	53.019	91.333	51.128	1.00	0.00	H
ATOM	4139	CA	ILE	436	52.241	91.893	52.998	1.00	0.00	C
ATOM	4140	CB	ILE	436	52.819	93.250	52.704	1.00	0.00	C
ATOM	4141	CG1	ILE	436	54.337	93.118	52.502	1.00	0.00	C



ATOM	4142	CG2	ILE	436	52.449	94.218	53.843	1.00	0.00	C
ATOM	4143	CD1	ILE	436	55.062	92.531	53.712	1.00	0.00	C
ATOM	4144	C	ILE	436	50.761	92.028	53.178	1.00	0.00	C
ATOM	4145	O	ILE	436	50.304	92.555	54.192	1.00	0.00	O
ATOM	4146	N	ILE	437	49.967	91.696	52.144	1.00	0.00	N
ATOM	4147	HN	ILE	437	50.356	91.324	51.278	1.00	0.00	H
ATOM	4148	CA	ILE	437	48.554	91.884	52.302	1.00	0.00	C
ATOM	4149	CB	ILE	437	47.988	92.744	51.209	1.00	0.00	C
ATOM	4150	CG1	ILE	437	48.651	94.133	51.260	1.00	0.00	C
ATOM	4151	CG2	ILE	437	46.459	92.785	51.354	1.00	0.00	C
ATOM	4152	CD1	ILE	437	48.367	95.006	50.038	1.00	0.00	C
ATOM	4153	C	ILE	437	47.823	90.569	52.307	1.00	0.00	C
ATOM	4154	O	ILE	437	47.598	89.957	51.266	1.00	0.00	O
ATOM	4155	N	GLY	438	47.379	90.125	53.501	1.00	0.00	N
ATOM	4156	HN	GLY	438	47.552	90.691	54.332	1.00	0.00	H
ATOM	4157	CA	GLY	438	46.671	88.882	53.642	1.00	0.00	C
ATOM	4158	C	GLY	438	45.327	89.070	53.018	1.00	0.00	C
ATOM	4159	O	GLY	438	44.713	90.122	53.183	1.00	0.00	O
ATOM	4160	N	VAL	439	44.825	88.049	52.287	1.00	0.00	N
ATOM	4161	HN	VAL	439	45.351	87.181	52.184	1.00	0.00	H
ATOM	4162	CA	VAL	439	43.540	88.201	51.655	1.00	0.00	C
ATOM	4163	CB	VAL	439	43.645	88.592	50.204	1.00	0.00	C
ATOM	4164	CG1	VAL	439	42.237	88.605	49.586	1.00	0.00	C
ATOM	4165	CG2	VAL	439	44.377	89.941	50.099	1.00	0.00	C
ATOM	4166	C	VAL	439	42.751	86.914	51.703	1.00	0.00	C
ATOM	4167	O	VAL	439	43.277	85.823	51.492	1.00	0.00	O
ATOM	4168	N	VAL	440	41.435	87.009	51.984	1.00	0.00	N
ATOM	4169	HN	VAL	440	41.025	87.918	52.196	1.00	0.00	H
ATOM	4170	CA	VAL	440	40.606	85.827	51.985	1.00	0.00	C
ATOM	4171	CB	VAL	440	40.282	85.350	53.371	1.00	0.00	C
ATOM	4172	CG1	VAL	440	39.396	84.099	53.278	1.00	0.00	C
ATOM	4173	CG2	VAL	440	41.605	85.113	54.119	1.00	0.00	C
ATOM	4174	C	VAL	440	39.314	86.153	51.296	1.00	0.00	C
ATOM	4175	O	VAL	440	38.507	86.912	51.826	1.00	0.00	O
ATOM	4176	N	SER	441	39.082	85.563	50.100	1.00	0.00	N
ATOM	4177	HN	SER	441	39.797	84.939	49.728	1.00	0.00	H
ATOM	4178	CA	SER	441	37.884	85.763	49.319	1.00	0.00	C
ATOM	4179	CB	SER	441	38.127	85.742	47.803	1.00	0.00	C
ATOM	4180	OG	SER	441	39.040	86.760	47.437	1.00	0.00	O
ATOM	4181	HG	SER	441	39.190	86.747	46.499	1.00	0.00	H
ATOM	4182	C	SER	441	36.943	84.617	49.580	1.00	0.00	C
ATOM	4183	O	SER	441	37.192	83.775	50.444	1.00	0.00	O
ATOM	4184	N	GLN	442	35.823	84.576	48.817	1.00	0.00	N
ATOM	4185	HN	GLN	442	35.733	85.225	48.035	1.00	0.00	H
ATOM	4186	CA	GLN	442	34.757	83.645	49.076	1.00	0.00	C
ATOM	4187	CB	GLN	442	33.580	83.820	48.104	1.00	0.00	C
ATOM	4188	CG	GLN	442	33.113	85.261	47.934	1.00	0.00	C
ATOM	4189	CD	GLN	442	33.843	85.828	46.722	1.00	0.00	C
ATOM	4190	OE1	GLN	442	35.056	85.683	46.578	1.00	0.00	O
ATOM	4191	NE2	GLN	442	33.076	86.478	45.808	1.00	0.00	N
ATOM	4192	1HE2	GLN	442	32.070	86.598	45.927	1.00	0.00	H
ATOM	4193	2HE2	GLN	442	33.565	86.857	44.997	1.00	0.00	H
ATOM	4194	C	GLN	442	35.128	82.208	48.920	1.00	0.00	C
ATOM	4195	O	GLN	442	35.434	81.547	49.909	1.00	0.00	O
ATOM	4196	N	GLU	443	35.249	81.726	47.664	1.00	0.00	N
ATOM	4197	HN	GLU	443	35.200	82.360	46.866	1.00	0.00	H
ATOM	4198	CA	GLU	443	35.446	80.321	47.455	1.00	0.00	C
ATOM	4199	CB	GLU	443	35.594	79.994	45.956	1.00	0.00	C
ATOM	4200	CG	GLU	443	36.531	78.825	45.638	1.00	0.00	C
ATOM	4201	CD	GLU	443	35.930	77.519	46.118	1.00	0.00	C
ATOM	4202	OE1	GLU	443	35.669	77.390	47.343	1.00	0.00	O
ATOM	4203	OE2	GLU	443	35.731	76.625	45.255	1.00	0.00	O
ATOM	4204	C	GLU	443	36.724	79.948	48.117	1.00	0.00	C
ATOM	4205	O	GLU	443	37.791	80.307	47.634	1.00	0.00	O
ATOM	4206	N	PRO	444	36.663	79.282	49.240	1.00	0.00	N
ATOM	4207	CA	PRO	444	37.839	78.857	49.926	1.00	0.00	C
ATOM	4208	CD	PRO	444	35.445	78.736	49.818	1.00	0.00	C
ATOM	4209	CB	PRO	444	37.348	78.333	51.274	1.00	0.00	C
ATOM	4210	CG	PRO	444	35.932	77.813	50.950	1.00	0.00	C
ATOM	4211	C	PRO	444	38.329	77.763	49.067	1.00	0.00	C
ATOM	4212	O	PRO	444	37.614	76.770	48.936	1.00	0.00	O
ATOM	4213	N	VAL	445	39.545	77.862	48.522	1.00	0.00	N
ATOM	4214	HN	VAL	445	40.172	78.650	48.684	1.00	0.00	H
ATOM	4215	CA	VAL	445	39.873	76.763	47.698	1.00	0.00	C

ATOM	4216	CB	VAL	445	40.193	77.143	46.279	1.00	0.00	C
ATOM	4217	CG1	VAL	445	41.501	77.954	46.262	1.00	0.00	C
ATOM	4218	CG2	VAL	445	40.230	75.860	45.431	1.00	0.00	C
ATOM	4219	C	VAL	445	41.051	76.089	48.269	1.00	0.00	C
ATOM	4220	O	VAL	445	42.023	76.720	48.681	1.00	0.00	O
ATOM	4221	N	LEU	446	40.961	74.755	48.312	1.00	0.00	N
ATOM	4222	HN	LEU	446	40.123	74.291	47.961	1.00	0.00	H
ATOM	4223	CA	LEU	446	42.026	73.982	48.844	1.00	0.00	C
ATOM	4224	CB	LEU	446	41.606	73.126	50.048	1.00	0.00	C
ATOM	4225	CG	LEU	446	41.200	73.989	51.253	1.00	0.00	C
ATOM	4226	CD1	LEU	446	40.784	73.123	52.451	1.00	0.00	C
ATOM	4227	CD2	LEU	446	42.304	75.000	51.596	1.00	0.00	C
ATOM	4228	C	LEU	446	42.428	73.076	47.743	1.00	0.00	C
ATOM	4229	O	LEU	446	41.610	72.355	47.174	1.00	0.00	O
ATOM	4230	N	PHE	447	43.724	73.107	47.413	1.00	0.00	N
ATOM	4231	HN	PHE	447	44.365	73.710	47.929	1.00	0.00	H
ATOM	4232	CA	PHE	447	44.212	72.306	46.349	1.00	0.00	C
ATOM	4233	CB	PHE	447	45.674	72.621	45.999	1.00	0.00	C
ATOM	4234	CG	PHE	447	45.762	74.101	45.832	1.00	0.00	C
ATOM	4235	CD1	PHE	447	45.435	74.714	44.645	1.00	0.00	C
ATOM	4236	CD2	PHE	447	46.153	74.883	46.894	1.00	0.00	C
ATOM	4237	CE1	PHE	447	45.520	76.081	44.516	1.00	0.00	C
ATOM	4238	CE2	PHE	447	46.239	76.249	46.770	1.00	0.00	C
ATOM	4239	CZ	PHE	447	45.925	76.854	45.577	1.00	0.00	C
ATOM	4240	C	PHE	447	44.139	70.894	46.825	1.00	0.00	C
ATOM	4241	O	PHE	447	44.057	70.636	48.024	1.00	0.00	O
ATOM	4242	N	ALA	448	44.121	69.921	45.902	1.00	0.00	N
ATOM	4243	HN	ALA	448	44.183	70.119	44.903	1.00	0.00	H
ATOM	4244	CA	ALA	448	44.009	68.585	46.408	1.00	0.00	C
ATOM	4245	CB	ALA	448	43.648	67.553	45.327	1.00	0.00	C
ATOM	4246	C	ALA	448	45.337	68.220	46.968	1.00	0.00	C
ATOM	4247	O	ALA	448	46.305	68.035	46.229	1.00	0.00	O
ATOM	4248	N	THR	449	45.404	68.116	48.313	1.00	0.00	N
ATOM	4249	HN	THR	449	44.571	68.254	48.885	1.00	0.00	H
ATOM	4250	CA	THR	449	46.658	67.810	48.921	1.00	0.00	C
ATOM	4251	CB	THR	449	47.644	68.923	48.709	1.00	0.00	C
ATOM	4252	OG1	THR	449	48.964	68.463	48.927	1.00	0.00	O
ATOM	4253	HG1	THR	449	49.166	67.749	48.334	1.00	0.00	H
ATOM	4254	CG2	THR	449	47.317	70.078	49.669	1.00	0.00	C
ATOM	4255	C	THR	449	46.441	67.619	50.393	1.00	0.00	C
ATOM	4256	O	THR	449	45.318	67.475	50.870	1.00	0.00	O
ATOM	4257	N	THR	450	47.552	67.615	51.149	1.00	0.00	N
ATOM	4258	HN	THR	450	48.444	67.755	50.675	1.00	0.00	H
ATOM	4259	CA	THR	450	47.581	67.429	52.570	1.00	0.00	C
ATOM	4260	CB	THR	450	49.009	67.277	53.007	1.00	0.00	C
ATOM	4261	OG1	THR	450	49.659	66.325	52.188	1.00	0.00	O
ATOM	4262	HG1	THR	450	50.563	66.229	52.465	1.00	0.00	H
ATOM	4263	CG2	THR	450	49.068	66.776	54.446	1.00	0.00	C
ATOM	4264	C	THR	450	47.103	68.729	53.145	1.00	0.00	C
ATOM	4265	O	THR	450	47.210	69.770	52.500	1.00	0.00	O
ATOM	4266	N	ILE	451	46.550	68.713	54.374	1.00	0.00	N
ATOM	4267	HN	ILE	451	46.426	67.832	54.873	1.00	0.00	H
ATOM	4268	CA	ILE	451	46.138	69.950	54.972	1.00	0.00	C
ATOM	4269	CB	ILE	451	45.562	69.762	56.348	1.00	0.00	C
ATOM	4270	CG1	ILE	451	44.305	68.876	56.289	1.00	0.00	C
ATOM	4271	CG2	ILE	451	45.299	71.152	56.951	1.00	0.00	C
ATOM	4272	CD1	ILE	451	43.169	69.464	55.450	1.00	0.00	C
ATOM	4273	C	ILE	451	47.392	70.749	55.108	1.00	0.00	C
ATOM	4274	O	ILE	451	47.458	71.915	54.719	1.00	0.00	O
ATOM	4275	N	ALA	452	48.459	70.088	55.589	1.00	0.00	N
ATOM	4276	HN	ALA	452	48.389	69.087	55.775	1.00	0.00	H
ATOM	4277	CA	ALA	452	49.691	70.769	55.844	1.00	0.00	C
ATOM	4278	CB	ALA	452	50.809	69.812	56.291	1.00	0.00	C
ATOM	4279	C	ALA	452	50.155	71.422	54.581	1.00	0.00	C
ATOM	4280	O	ALA	452	50.463	72.612	54.571	1.00	0.00	O
ATOM	4281	N	GLU	453	50.123	70.690	53.456	1.00	0.00	N
ATOM	4282	HN	GLU	453	49.731	69.749	53.483	1.00	0.00	H
ATOM	4283	CA	GLU	453	50.629	71.204	52.217	1.00	0.00	C
ATOM	4284	CB	GLU	453	50.367	70.264	51.030	1.00	0.00	C
ATOM	4285	CG	GLU	453	51.393	69.151	50.858	1.00	0.00	C
ATOM	4286	CD	GLU	453	52.557	69.782	50.112	1.00	0.00	C
ATOM	4287	OE1	GLU	453	52.632	71.039	50.103	1.00	0.00	O
ATOM	4288	OE2	GLU	453	53.382	69.025	49.537	1.00	0.00	O
ATOM	4289	C	GLU	453	49.925	72.477	51.874	1.00	0.00	C

ATOM	4290	O	GLU	453	50.545	73.404	51.359	1.00	0.00	O
ATOM	4291	N	ASN	454	48.607	72.556	52.121	1.00	0.00	N
ATOM	4292	HN	ASN	454	48.123	71.776	52.566	1.00	0.00	H
ATOM	4293	CA	ASN	454	47.880	73.740	51.757	1.00	0.00	C
ATOM	4294	CB	ASN	454	46.374	73.623	52.039	1.00	0.00	C
ATOM	4295	CG	ASN	454	45.791	72.667	51.007	1.00	0.00	C
ATOM	4296	OD1	ASN	454	45.842	72.925	49.805	1.00	0.00	O
ATOM	4297	ND2	ASN	454	45.232	71.524	51.487	1.00	0.00	N
ATOM	4298	1HD2	ASN	454	45.190	71.310	52.483	1.00	0.00	H
ATOM	4299	2HD2	ASN	454	44.841	70.884	50.796	1.00	0.00	H
ATOM	4300	C	ASN	454	48.408	74.903	52.532	1.00	0.00	C
ATOM	4301	O	ASN	454	48.690	75.957	51.965	1.00	0.00	O
ATOM	4302	N	ILE	455	48.600	74.730	53.851	1.00	0.00	N
ATOM	4303	HN	ILE	455	48.380	73.835	54.289	1.00	0.00	H
ATOM	4304	CA	ILE	455	49.116	75.812	54.638	1.00	0.00	C
ATOM	4305	CB	ILE	455	49.309	75.476	56.094	1.00	0.00	C
ATOM	4306	CG1	ILE	455	47.956	75.306	56.815	1.00	0.00	C
ATOM	4307	CG2	ILE	455	50.187	76.580	56.705	1.00	0.00	C
ATOM	4308	CD1	ILE	455	47.144	74.098	56.356	1.00	0.00	C
ATOM	4309	C	ILE	455	50.452	76.145	54.049	1.00	0.00	C
ATOM	4310	O	ILE	455	50.819	77.313	53.931	1.00	0.00	O
ATOM	4311	N	ARG	456	51.199	75.109	53.624	1.00	0.00	N
ATOM	4312	HN	ARG	456	50.830	74.162	53.711	1.00	0.00	H
ATOM	4313	CA	ARG	456	52.498	75.301	53.053	1.00	0.00	C
ATOM	4314	CB	ARG	456	53.266	74.000	52.760	1.00	0.00	C
ATOM	4315	CG	ARG	456	54.644	74.280	52.155	1.00	0.00	C
ATOM	4316	CD	ARG	456	55.701	73.212	52.444	1.00	0.00	C
ATOM	4317	NE	ARG	456	55.286	71.941	51.790	1.00	0.00	N
ATOM	4318	HE	ARG	456	55.039	71.925	50.801	1.00	0.00	H
ATOM	4319	CZ	ARG	456	55.241	70.797	52.533	1.00	0.00	C
ATOM	4320	NH1	ARG	456	55.529	70.847	53.866	1.00	0.00	N
ATOM	4321	1HH1	ARG	456	55.776	71.735	54.303	1.00	0.00	H
ATOM	4322	2HH1	ARG	456	55.495	69.992	54.421	1.00	0.00	H
ATOM	4323	NH2	ARG	456	54.910	69.609	51.948	1.00	0.00	N
ATOM	4324	1HH2	ARG	456	54.695	69.572	50.952	1.00	0.00	H
ATOM	4325	2HH2	ARG	456	54.876	68.754	52.503	1.00	0.00	H
ATOM	4326	C	ARG	456	52.375	76.091	51.783	1.00	0.00	C
ATOM	4327	O	ARG	456	53.288	76.819	51.418	1.00	0.00	O
ATOM	4328	N	TYR	457	51.263	75.973	51.042	1.00	0.00	N
ATOM	4329	HN	TYR	457	50.536	75.310	51.310	1.00	0.00	H
ATOM	4330	CA	TYR	457	51.103	76.787	49.867	1.00	0.00	C
ATOM	4331	CB	TYR	457	49.727	76.614	49.199	1.00	0.00	C
ATOM	4332	CG	TYR	457	49.763	75.429	48.295	1.00	0.00	C
ATOM	4333	CD1	TYR	457	49.829	74.145	48.785	1.00	0.00	C
ATOM	4334	CD2	TYR	457	49.764	75.624	46.933	1.00	0.00	C
ATOM	4335	CE1	TYR	457	49.869	73.073	47.923	1.00	0.00	C
ATOM	4336	CE2	TYR	457	49.802	74.558	46.068	1.00	0.00	C
ATOM	4337	CZ	TYR	457	49.853	73.279	46.564	1.00	0.00	C
ATOM	4338	OH	TYR	457	49.893	72.181	45.679	1.00	0.00	O
ATOM	4339	HH	TYR	457	49.928	71.296	46.022	1.00	0.00	H
ATOM	4340	C	TYR	457	51.187	78.196	50.335	1.00	0.00	C
ATOM	4341	O	TYR	457	51.756	79.056	49.664	1.00	0.00	O
ATOM	4342	N	GLY	458	50.636	78.451	51.532	1.00	0.00	N
ATOM	4343	HN	GLY	458	50.212	77.694	52.068	1.00	0.00	H
ATOM	4344	CA	GLY	458	50.642	79.779	52.058	1.00	0.00	C
ATOM	4345	C	GLY	458	52.064	80.225	52.127	1.00	0.00	C
ATOM	4346	O	GLY	458	52.378	81.363	51.783	1.00	0.00	O
ATOM	4347	N	ARG	459	52.969	79.346	52.594	1.00	0.00	N
ATOM	4348	HN	ARG	459	52.683	78.426	52.930	1.00	0.00	H
ATOM	4349	CA	ARG	459	54.347	79.740	52.605	1.00	0.00	C
ATOM	4350	CB	ARG	459	54.773	80.378	53.936	1.00	0.00	C
ATOM	4351	CG	ARG	459	56.130	81.080	53.877	1.00	0.00	C
ATOM	4352	CD	ARG	459	56.417	81.935	55.112	1.00	0.00	C
ATOM	4353	NE	ARG	459	56.514	81.018	56.281	1.00	0.00	N
ATOM	4354	HE	ARG	459	56.913	80.086	56.168	1.00	0.00	H
ATOM	4355	CZ	ARG	459	56.068	81.428	57.503	1.00	0.00	C
ATOM	4356	NH1	ARG	459	55.502	82.662	57.644	1.00	0.00	N
ATOM	4357	1HH1	ARG	459	55.168	82.969	58.558	1.00	0.00	H
ATOM	4358	2HH1	ARG	459	55.413	83.278	56.836	1.00	0.00	H
ATOM	4359	NH2	ARG	459	56.187	80.604	58.585	1.00	0.00	N
ATOM	4360	1HH2	ARG	459	55.853	80.911	59.499	1.00	0.00	H
ATOM	4361	2HH2	ARG	459	56.610	79.682	58.480	1.00	0.00	H
ATOM	4362	C	ARG	459	55.160	78.511	52.376	1.00	0.00	C
ATOM	4363	O	ARG	459	55.093	77.582	53.181	1.00	0.00	O

ATOM	4364	N	GLU	460	55.955	78.481	51.280	1.00	0.00	N
ATOM	4365	HN	GLU	460	56.079	79.332	50.732	1.00	0.00	H
ATOM	4366	CA	GLU	460	56.630	77.275	50.869	1.00	0.00	C
ATOM	4367	CB	GLU	460	57.624	77.521	49.721	1.00	0.00	C
ATOM	4368	CG	GLU	460	56.976	78.103	48.464	1.00	0.00	C
ATOM	4369	CD	GLU	460	56.802	79.604	48.665	1.00	0.00	C
ATOM	4370	OE1	GLU	460	57.253	80.123	49.721	1.00	0.00	O
ATOM	4371	OE2	GLU	460	56.224	80.256	47.755	1.00	0.00	O
ATOM	4372	C	GLU	460	57.440	76.768	52.036	1.00	0.00	C
ATOM	4373	O	GLU	460	57.127	75.715	52.592	1.00	0.00	O
ATOM	4374	N	ASN	461	58.445	77.537	52.514	1.00	0.00	N
ATOM	4375	HN	ASN	461	58.646	78.449	52.104	1.00	0.00	H
ATOM	4376	CA	ASN	461	59.222	77.035	53.615	1.00	0.00	C
ATOM	4377	CB	ASN	461	60.627	77.653	53.723	1.00	0.00	C
ATOM	4378	CG	ASN	461	60.467	79.134	54.027	1.00	0.00	C
ATOM	4379	OD1	ASN	461	60.284	79.527	55.178	1.00	0.00	O
ATOM	4380	ND2	ASN	461	60.543	79.984	52.968	1.00	0.00	N
ATOM	4381	1HD2	ASN	461	60.436	80.978	53.172	1.00	0.00	H
ATOM	4382	2HD2	ASN	461	60.695	79.658	52.013	1.00	0.00	H
ATOM	4383	C	ASN	461	58.483	77.355	54.879	1.00	0.00	C
ATOM	4384	O	ASN	461	57.984	78.466	55.049	1.00	0.00	O
ATOM	4385	N	VAL	462	58.376	76.376	55.802	1.00	0.00	N
ATOM	4386	HN	VAL	462	58.798	75.462	55.637	1.00	0.00	H
ATOM	4387	CA	VAL	462	57.660	76.636	57.020	1.00	0.00	C
ATOM	4388	CB	VAL	462	56.272	77.126	56.726	1.00	0.00	C
ATOM	4389	CG1	VAL	462	55.576	76.074	55.847	1.00	0.00	C
ATOM	4390	CG2	VAL	462	55.539	77.419	58.040	1.00	0.00	C
ATOM	4391	C	VAL	462	57.559	75.344	57.777	1.00	0.00	C
ATOM	4392	O	VAL	462	57.309	74.293	57.189	1.00	0.00	O
ATOM	4393	N	THR	463	57.722	75.391	59.117	1.00	0.00	N
ATOM	4394	HN	THR	463	57.864	76.288	59.581	1.00	0.00	H
ATOM	4395	CA	THR	463	57.696	74.180	59.890	1.00	0.00	C
ATOM	4396	CB	THR	463	58.633	74.205	61.066	1.00	0.00	C
ATOM	4397	OG1	THR	463	59.968	74.419	60.628	1.00	0.00	O
ATOM	4398	HG1	THR	463	60.560	74.435	61.371	1.00	0.00	H
ATOM	4399	CG2	THR	463	58.524	72.868	61.822	1.00	0.00	C
ATOM	4400	C	THR	463	56.314	73.940	60.418	1.00	0.00	C
ATOM	4401	O	THR	463	55.576	74.864	60.752	1.00	0.00	O
ATOM	4402	N	MET	464	55.971	72.652	60.591	1.00	0.00	N
ATOM	4403	HN	MET	464	56.674	71.940	60.393	1.00	0.00	H
ATOM	4404	CA	MET	464	54.680	72.214	61.036	1.00	0.00	C
ATOM	4405	CB	MET	464	54.551	70.690	61.144	1.00	0.00	C
ATOM	4406	CG	MET	464	54.279	70.049	59.792	1.00	0.00	C
ATOM	4407	SD	MET	464	52.764	70.706	59.040	1.00	0.00	S
ATOM	4408	CE	MET	464	51.756	70.464	60.531	1.00	0.00	C
ATOM	4409	C	MET	464	54.461	72.778	62.381	1.00	0.00	C
ATOM	4410	O	MET	464	53.329	72.899	62.835	1.00	0.00	O
ATOM	4411	N	ASP	465	55.548	73.063	63.098	1.00	0.00	N
ATOM	4412	HN	ASP	465	56.486	72.871	62.745	1.00	0.00	H
ATOM	4413	CA	ASP	465	55.339	73.647	64.378	1.00	0.00	C
ATOM	4414	CB	ASP	465	56.663	73.952	65.094	1.00	0.00	C
ATOM	4415	CG	ASP	465	56.365	74.219	66.559	1.00	0.00	C
ATOM	4416	OD1	ASP	465	55.162	74.334	66.918	1.00	0.00	O
ATOM	4417	OD2	ASP	465	57.347	74.310	67.342	1.00	0.00	O
ATOM	4418	C	ASP	465	54.608	74.935	64.152	1.00	0.00	C
ATOM	4419	O	ASP	465	53.626	75.215	64.836	1.00	0.00	O
ATOM	4420	N	GLU	466	55.048	75.757	63.174	1.00	0.00	N
ATOM	4421	HN	GLU	466	55.858	75.513	62.604	1.00	0.00	H
ATOM	4422	CA	GLU	466	54.335	76.985	62.966	1.00	0.00	C
ATOM	4423	CB	GLU	466	55.074	78.067	62.156	1.00	0.00	C
ATOM	4424	CG	GLU	466	55.871	77.576	60.959	1.00	0.00	C
ATOM	4425	CD	GLU	466	57.323	77.499	61.403	1.00	0.00	C
ATOM	4426	OE1	GLU	466	57.674	76.543	62.144	1.00	0.00	O
ATOM	4427	OE2	GLU	466	58.098	78.413	61.014	1.00	0.00	O
ATOM	4428	C	GLU	466	52.973	76.730	62.405	1.00	0.00	C
ATOM	4429	O	GLU	466	52.017	77.407	62.773	1.00	0.00	O
ATOM	4430	N	ILE	467	52.831	75.736	61.514	1.00	0.00	N
ATOM	4431	HN	ILE	467	53.641	75.181	61.239	1.00	0.00	H
ATOM	4432	CA	ILE	467	51.545	75.451	60.948	1.00	0.00	C
ATOM	4433	CB	ILE	467	51.629	74.329	59.970	1.00	0.00	C
ATOM	4434	CG1	ILE	467	52.552	74.756	58.820	1.00	0.00	C
ATOM	4435	CG2	ILE	467	50.204	73.948	59.535	1.00	0.00	C
ATOM	4436	CD1	ILE	467	53.103	73.590	58.011	1.00	0.00	C
ATOM	4437	C	ILE	467	50.625	75.063	62.060	1.00	0.00	C

ATOM	4438	O	ILE	467	49.479	75.505	62.119	1.00	0.00	O
ATOM	4439	N	GLU	468	51.120	74.248	63.003	1.00	0.00	N
ATOM	4440	HN	GLU	468	52.093	73.948	62.940	1.00	0.00	H
ATOM	4441	CA	GLU	468	50.320	73.789	64.094	1.00	0.00	C
ATOM	4442	CB	GLU	468	51.128	72.938	65.086	1.00	0.00	C
ATOM	4443	CG	GLU	468	50.282	72.293	66.186	1.00	0.00	C
ATOM	4444	CD	GLU	468	51.203	71.410	67.018	1.00	0.00	C
ATOM	4445	OE1	GLU	468	52.429	71.408	66.731	1.00	0.00	O
ATOM	4446	OE2	GLU	468	50.695	70.727	67.947	1.00	0.00	O
ATOM	4447	C	GLU	468	49.832	75.014	64.787	1.00	0.00	C
ATOM	4448	O	GLU	468	48.643	75.155	65.064	1.00	0.00	O
ATOM	4449	N	LYS	469	50.738	75.975	65.021	1.00	0.00	N
ATOM	4450	HN	LYS	469	51.713	75.843	64.752	1.00	0.00	H
ATOM	4451	CA	LYS	469	50.318	77.186	65.652	1.00	0.00	C
ATOM	4452	CB	LYS	469	51.467	78.174	65.901	1.00	0.00	C
ATOM	4453	CG	LYS	469	50.955	79.606	66.033	1.00	0.00	C
ATOM	4454	CD	LYS	469	49.864	79.792	67.084	1.00	0.00	C
ATOM	4455	CE	LYS	469	49.095	81.096	66.875	1.00	0.00	C
ATOM	4456	NZ	LYS	469	47.797	81.041	67.577	1.00	0.00	N
ATOM	4457	HZ1	LYS	469	47.284	81.911	67.438	1.00	0.00	H
ATOM	4458	HZ2	LYS	469	47.908	80.818	68.566	1.00	0.00	H
ATOM	4459	HZ3	LYS	469	47.248	80.227	67.300	1.00	0.00	H
ATOM	4460	C	LYS	469	49.302	77.869	64.789	1.00	0.00	C
ATOM	4461	O	LYS	469	48.261	78.307	65.275	1.00	0.00	O
ATOM	4462	N	ALA	470	49.547	77.927	63.469	1.00	0.00	N
ATOM	4463	HN	ALA	470	50.351	77.438	63.077	1.00	0.00	H
ATOM	4464	CA	ALA	470	48.677	78.677	62.613	1.00	0.00	C
ATOM	4465	CB	ALA	470	49.095	78.585	61.136	1.00	0.00	C
ATOM	4466	C	ALA	470	47.285	78.137	62.715	1.00	0.00	C
ATOM	4467	O	ALA	470	46.336	78.876	62.970	1.00	0.00	O
ATOM	4468	N	VAL	471	47.147	76.809	62.606	1.00	0.00	N
ATOM	4469	HN	VAL	471	47.991	76.240	62.535	1.00	0.00	H
ATOM	4470	CA	VAL	471	45.878	76.146	62.584	1.00	0.00	C
ATOM	4471	CB	VAL	471	46.119	74.663	62.641	1.00	0.00	C
ATOM	4472	CG1	VAL	471	44.799	73.890	62.628	1.00	0.00	C
ATOM	4473	CG2	VAL	471	47.088	74.291	61.512	1.00	0.00	C
ATOM	4474	C	VAL	471	45.139	76.514	63.825	1.00	0.00	C
ATOM	4475	O	VAL	471	44.030	77.044	63.774	1.00	0.00	O
ATOM	4476	N	LYS	472	45.791	76.321	64.981	1.00	0.00	N
ATOM	4477	HN	LYS	472	46.765	76.020	64.963	1.00	0.00	H
ATOM	4478	CA	LYS	472	45.142	76.531	66.238	1.00	0.00	C
ATOM	4479	CB	LYS	472	46.086	76.336	67.435	1.00	0.00	C
ATOM	4480	CG	LYS	472	46.672	74.927	67.527	1.00	0.00	C
ATOM	4481	CD	LYS	472	47.819	74.810	68.531	1.00	0.00	C
ATOM	4482	CE	LYS	472	48.489	73.436	68.534	1.00	0.00	C
ATOM	4483	NZ	LYS	472	47.489	72.380	68.803	1.00	0.00	N
ATOM	4484	HZ1	LYS	472	47.936	71.463	68.805	1.00	0.00	H
ATOM	4485	HZ2	LYS	472	46.707	72.421	68.150	1.00	0.00	H
ATOM	4486	HZ3	LYS	472	46.974	72.554	69.666	1.00	0.00	H
ATOM	4487	C	LYS	472	44.656	77.943	66.287	1.00	0.00	C
ATOM	4488	O	LYS	472	43.574	78.212	66.805	1.00	0.00	O
ATOM	4489	N	GLU	473	45.438	78.891	65.743	1.00	0.00	N
ATOM	4490	HN	GLU	473	46.312	78.636	65.282	1.00	0.00	H
ATOM	4491	CA	GLU	473	45.031	80.267	65.817	1.00	0.00	C
ATOM	4492	CB	GLU	473	46.076	81.226	65.230	1.00	0.00	C
ATOM	4493	CG	GLU	473	45.826	82.686	65.607	1.00	0.00	C
ATOM	4494	CD	GLU	473	46.972	83.517	65.051	1.00	0.00	C
ATOM	4495	OE1	GLU	473	48.132	83.301	65.493	1.00	0.00	O
ATOM	4496	OE2	GLU	473	46.702	84.378	64.173	1.00	0.00	O
ATOM	4497	C	GLU	473	43.751	80.454	65.050	1.00	0.00	C
ATOM	4498	O	GLU	473	42.848	81.176	65.467	1.00	0.00	O
ATOM	4499	N	ALA	474	43.686	79.801	63.883	1.00	0.00	N
ATOM	4500	HN	ALA	474	44.526	79.272	63.651	1.00	0.00	H
ATOM	4501	CA	ALA	474	42.641	79.714	62.899	1.00	0.00	C
ATOM	4502	CB	ALA	474	43.119	79.115	61.564	1.00	0.00	C
ATOM	4503	C	ALA	474	41.486	78.888	63.388	1.00	0.00	C
ATOM	4504	O	ALA	474	40.623	78.540	62.591	1.00	0.00	O
ATOM	4505	N	ASN	475	41.584	78.316	64.602	1.00	0.00	N
ATOM	4506	HN	ASN	475	42.431	78.493	65.141	1.00	0.00	H
ATOM	4507	CA	ASN	475	40.575	77.469	65.197	1.00	0.00	C
ATOM	4508	CB	ASN	475	39.237	78.138	65.611	1.00	0.00	C
ATOM	4509	CG	ASN	475	38.342	78.513	64.434	1.00	0.00	C
ATOM	4510	OD1	ASN	475	38.584	79.488	63.730	1.00	0.00	O
ATOM	4511	ND2	ASN	475	37.242	77.737	64.238	1.00	0.00	N

ATOM	4512	1HD2	ASN	475	37.041	76.926	64.823	1.00	0.00	H
ATOM	4513	2HD2	ASN	475	36.644	77.988	63.451	1.00	0.00	H
ATOM	4514	C	ASN	475	40.297	76.323	64.276	1.00	0.00	C
ATOM	4515	O	ASN	475	39.156	75.893	64.120	1.00	0.00	O
ATOM	4516	N	ALA	476	41.335	75.920	63.520	1.00	0.00	N
ATOM	4517	HN	ALA	476	42.177	76.494	63.564	1.00	0.00	H
ATOM	4518	CA	ALA	476	41.390	74.771	62.658	1.00	0.00	C
ATOM	4519	CB	ALA	476	42.334	74.973	61.463	1.00	0.00	C
ATOM	4520	C	ALA	476	41.753	73.506	63.382	1.00	0.00	C
ATOM	4521	O	ALA	476	41.403	72.404	62.965	1.00	0.00	O
ATOM	4522	N	TYR	477	42.498	73.645	64.490	1.00	0.00	N
ATOM	4523	HN	TYR	477	42.594	74.580	64.886	1.00	0.00	H
ATOM	4524	CA	TYR	477	43.168	72.563	65.154	1.00	0.00	C
ATOM	4525	CB	TYR	477	43.927	73.069	66.396	1.00	0.00	C
ATOM	4526	CG	TYR	477	44.636	71.937	67.050	1.00	0.00	C
ATOM	4527	CD1	TYR	477	45.659	71.284	66.401	1.00	0.00	C
ATOM	4528	CD2	TYR	477	44.305	71.557	68.329	1.00	0.00	C
ATOM	4529	CE1	TYR	477	46.322	70.245	67.010	1.00	0.00	C
ATOM	4530	CE2	TYR	477	44.966	70.520	68.943	1.00	0.00	C
ATOM	4531	CZ	TYR	477	45.974	69.860	68.282	1.00	0.00	C
ATOM	4532	OH	TYR	477	46.653	68.795	68.912	1.00	0.00	O
ATOM	4533	HH	TYR	477	47.350	68.339	68.455	1.00	0.00	H
ATOM	4534	C	TYR	477	42.244	71.440	65.530	1.00	0.00	C
ATOM	4535	O	TYR	477	42.640	70.281	65.430	1.00	0.00	O
ATOM	4536	N	ASP	478	41.013	71.718	65.997	1.00	0.00	N
ATOM	4537	HN	ASP	478	40.688	72.684	66.039	1.00	0.00	H
ATOM	4538	CA	ASP	478	40.156	70.647	66.437	1.00	0.00	C
ATOM	4539	CB	ASP	478	38.870	71.165	67.110	1.00	0.00	C
ATOM	4540	CG	ASP	478	38.093	72.069	66.154	1.00	0.00	C
ATOM	4541	OD1	ASP	478	38.675	72.533	65.139	1.00	0.00	O
ATOM	4542	OD2	ASP	478	36.897	72.328	66.446	1.00	0.00	O
ATOM	4543	C	ASP	478	39.771	69.665	65.356	1.00	0.00	C
ATOM	4544	O	ASP	478	40.040	68.471	65.485	1.00	0.00	O
ATOM	4545	N	PHE	479	39.168	70.125	64.242	1.00	0.00	N
ATOM	4546	HN	PHE	479	39.054	71.130	64.109	1.00	0.00	H
ATOM	4547	CA	PHE	479	38.684	69.215	63.239	1.00	0.00	C
ATOM	4548	CB	PHE	479	37.799	69.865	62.155	1.00	0.00	C
ATOM	4549	CG	PHE	479	38.543	70.894	61.372	1.00	0.00	C
ATOM	4550	CD1	PHE	479	39.421	70.530	60.377	1.00	0.00	C
ATOM	4551	CD2	PHE	479	38.333	72.233	61.615	1.00	0.00	C
ATOM	4552	CE1	PHE	479	40.092	71.486	59.650	1.00	0.00	C
ATOM	4553	CE2	PHE	479	39.000	73.193	60.890	1.00	0.00	C
ATOM	4554	CZ	PHE	479	39.884	72.820	59.906	1.00	0.00	C
ATOM	4555	C	PHE	479	39.827	68.514	62.587	1.00	0.00	C
ATOM	4556	O	PHE	479	39.744	67.329	62.268	1.00	0.00	O
ATOM	4557	N	ILE	480	40.940	69.230	62.376	1.00	0.00	N
ATOM	4558	HN	ILE	480	40.978	70.209	62.660	1.00	0.00	H
ATOM	4559	CA	ILE	480	42.074	68.623	61.753	1.00	0.00	C
ATOM	4560	CB	ILE	480	43.225	69.578	61.544	1.00	0.00	C
ATOM	4561	CG1	ILE	480	43.724	70.208	62.862	1.00	0.00	C
ATOM	4562	CG2	ILE	480	42.780	70.607	60.492	1.00	0.00	C
ATOM	4563	CD1	ILE	480	44.613	69.314	63.726	1.00	0.00	C
ATOM	4564	C	ILE	480	42.492	67.471	62.605	1.00	0.00	C
ATOM	4565	O	ILE	480	42.980	66.470	62.087	1.00	0.00	O
ATOM	4566	N	MET	481	42.383	67.611	63.940	1.00	0.00	N
ATOM	4567	HN	MET	481	42.043	68.491	64.327	1.00	0.00	H
ATOM	4568	CA	MET	481	42.738	66.540	64.825	1.00	0.00	C
ATOM	4569	CB	MET	481	42.776	66.977	66.295	1.00	0.00	C
ATOM	4570	CG	MET	481	43.931	67.930	66.583	1.00	0.00	C
ATOM	4571	SD	MET	481	45.555	67.204	66.219	1.00	0.00	S
ATOM	4572	CE	MET	481	45.374	65.840	67.405	1.00	0.00	C
ATOM	4573	C	MET	481	41.778	65.388	64.743	1.00	0.00	C
ATOM	4574	O	MET	481	42.196	64.237	64.625	1.00	0.00	O
ATOM	4575	N	LYS	482	40.458	65.669	64.796	1.00	0.00	N
ATOM	4576	HN	LYS	482	40.157	66.643	64.814	1.00	0.00	H
ATOM	4577	CA	LYS	482	39.465	64.627	64.828	1.00	0.00	C
ATOM	4578	CB	LYS	482	38.037	65.164	65.037	1.00	0.00	C
ATOM	4579	CG	LYS	482	37.018	64.081	65.405	1.00	0.00	C
ATOM	4580	CD	LYS	482	36.794	63.024	64.322	1.00	0.00	C
ATOM	4581	CE	LYS	482	35.940	61.842	64.788	1.00	0.00	C
ATOM	4582	NZ	LYS	482	34.582	62.302	65.157	1.00	0.00	N
ATOM	4583	HZ1	LYS	482	34.013	61.514	65.467	1.00	0.00	H
ATOM	4584	HZ2	LYS	482	34.136	62.818	64.398	1.00	0.00	H
ATOM	4585	HZ3	LYS	482	34.609	63.049	65.851	1.00	0.00	H

ATOM	4586	C	LYS	482	39.495	63.900	63.531	1.00	0.00	C
ATOM	4587	O	LYS	482	39.452	62.671	63.494	1.00	0.00	O
ATOM	4588	N	LEU	483	39.606	64.665	62.433	1.00	0.00	N
ATOM	4589	HN	LEU	483	39.663	65.678	62.539	1.00	0.00	H
ATOM	4590	CA	LEU	483	39.646	64.103	61.121	1.00	0.00	C
ATOM	4591	CB	LEU	483	39.947	65.169	60.050	1.00	0.00	C
ATOM	4592	CG	LEU	483	40.269	64.628	58.645	1.00	0.00	C
ATOM	4593	CD1	LEU	483	39.112	63.817	58.047	1.00	0.00	C
ATOM	4594	CD2	LEU	483	40.727	65.772	57.725	1.00	0.00	C
ATOM	4595	C	LEU	483	40.746	63.098	61.123	1.00	0.00	C
ATOM	4596	O	LEU	483	41.758	63.253	61.804	1.00	0.00	O
ATOM	4597	N	PRO	484	40.539	62.046	60.387	1.00	0.00	N
ATOM	4598	CA	PRO	484	41.501	60.985	60.360	1.00	0.00	C
ATOM	4599	CD	PRO	484	39.196	61.578	60.088	1.00	0.00	C
ATOM	4600	CB	PRO	484	40.830	59.840	59.608	1.00	0.00	C
ATOM	4601	CG	PRO	484	39.332	60.060	59.885	1.00	0.00	C
ATOM	4602	C	PRO	484	42.720	61.498	59.707	1.00	0.00	C
ATOM	4603	O	PRO	484	42.646	62.603	59.194	1.00	0.00	O
ATOM	4604	N	HIS	485	43.844	60.768	59.822	1.00	0.00	N
ATOM	4605	HN	HIS	485	43.792	59.956	60.437	1.00	0.00	H
ATOM	4606	CA	HIS	485	45.111	60.998	59.180	1.00	0.00	C
ATOM	4607	ND1	HIS	485	45.173	58.712	56.776	1.00	0.00	N
ATOM	4608	HD1	HIS	485	46.141	58.541	57.050	1.00	0.00	H
ATOM	4609	CG	HIS	485	44.452	59.868	56.983	1.00	0.00	C
ATOM	4610	CB	HIS	485	44.999	61.097	57.646	1.00	0.00	C
ATOM	4611	NE2	HIS	485	43.150	58.361	55.921	1.00	0.00	N
ATOM	4612	HE2	HIS	485	42.353	57.919	55.462	1.00	0.00	H
ATOM	4613	CD2	HIS	485	43.219	59.635	56.455	1.00	0.00	C
ATOM	4614	CE1	HIS	485	44.347	57.845	56.138	1.00	0.00	C
ATOM	4615	C	HIS	485	45.785	62.261	59.632	1.00	0.00	C
ATOM	4616	O	HIS	485	46.959	62.451	59.320	1.00	0.00	O
ATOM	4617	N	LYS	486	45.118	63.127	60.423	1.00	0.00	N
ATOM	4618	HN	LYS	486	44.139	62.960	60.657	1.00	0.00	H
ATOM	4619	CA	LYS	486	45.800	64.291	60.935	1.00	0.00	C
ATOM	4620	CB	LYS	486	47.135	63.938	61.616	1.00	0.00	C
ATOM	4621	CG	LYS	486	47.654	65.010	62.573	1.00	0.00	C
ATOM	4622	CD	LYS	486	48.710	64.478	63.545	1.00	0.00	C
ATOM	4623	CE	LYS	486	49.108	65.480	64.631	1.00	0.00	C
ATOM	4624	NZ	LYS	486	49.914	64.802	65.672	1.00	0.00	N
ATOM	4625	HZ1	LYS	486	50.179	65.470	66.396	1.00	0.00	H
ATOM	4626	HZ2	LYS	486	50.724	64.323	65.278	1.00	0.00	H
ATOM	4627	HZ3	LYS	486	49.434	63.989	66.058	1.00	0.00	H
ATOM	4628	C	LYS	486	46.030	65.335	59.871	1.00	0.00	C
ATOM	4629	O	LYS	486	45.210	65.564	58.988	1.00	0.00	O
ATOM	4630	N	PHE	487	47.160	66.058	59.979	1.00	0.00	N
ATOM	4631	HN	PHE	487	47.791	65.843	60.751	1.00	0.00	H
ATOM	4632	CA	PHE	487	47.538	67.115	59.077	1.00	0.00	C
ATOM	4633	CB	PHE	487	48.785	67.890	59.541	1.00	0.00	C
ATOM	4634	CG	PHE	487	48.418	68.676	60.756	1.00	0.00	C
ATOM	4635	CD1	PHE	487	47.716	69.855	60.634	1.00	0.00	C
ATOM	4636	CD2	PHE	487	48.780	68.249	62.014	1.00	0.00	C
ATOM	4637	CE1	PHE	487	47.374	70.592	61.743	1.00	0.00	C
ATOM	4638	CE2	PHE	487	48.440	68.982	63.129	1.00	0.00	C
ATOM	4639	CZ	PHE	487	47.735	70.155	62.995	1.00	0.00	C
ATOM	4640	C	PHE	487	47.826	66.541	57.732	1.00	0.00	C
ATOM	4641	O	PHE	487	47.633	67.204	56.715	1.00	0.00	O
ATOM	4642	N	ASP	488	48.334	65.297	57.730	1.00	0.00	N
ATOM	4643	HN	ASP	488	48.438	64.850	58.641	1.00	0.00	H
ATOM	4644	CA	ASP	488	48.747	64.526	56.593	1.00	0.00	C
ATOM	4645	CB	ASP	488	49.379	63.189	56.999	1.00	0.00	C
ATOM	4646	CG	ASP	488	50.654	63.510	57.758	1.00	0.00	C
ATOM	4647	OD1	ASP	488	51.310	64.529	57.416	1.00	0.00	O
ATOM	4648	OD2	ASP	488	50.979	62.745	58.704	1.00	0.00	O
ATOM	4649	C	ASP	488	47.563	64.199	55.746	1.00	0.00	C
ATOM	4650	O	ASP	488	47.732	63.771	54.605	1.00	0.00	O
ATOM	4651	N	THR	489	46.340	64.328	56.299	1.00	0.00	N
ATOM	4652	HN	THR	489	46.252	64.682	57.252	1.00	0.00	H
ATOM	4653	CA	THR	489	45.161	63.973	55.563	1.00	0.00	C
ATOM	4654	CB	THR	489	43.894	64.435	56.173	1.00	0.00	C
ATOM	4655	OG1	THR	489	43.873	63.986	57.499	1.00	0.00	O
ATOM	4656	HG1	THR	489	44.610	64.363	57.964	1.00	0.00	H
ATOM	4657	CG2	THR	489	42.699	63.824	55.419	1.00	0.00	C
ATOM	4658	C	THR	489	45.190	64.704	54.268	1.00	0.00	C
ATOM	4659	O	THR	489	45.823	65.751	54.156	1.00	0.00	O

ATOM	4660	N	LEU	490	44.497	64.131	53.266	1.00	0.00	N
ATOM	4661	HN	LEU	490	43.984	63.274	53.474	1.00	0.00	H
ATOM	4662	CA	LEU	490	44.429	64.639	51.927	1.00	0.00	C
ATOM	4663	CB	LEU	490	44.178	63.579	50.856	1.00	0.00	C
ATOM	4664	CG	LEU	490	45.250	62.511	50.681	1.00	0.00	C
ATOM	4665	CD1	LEU	490	45.444	61.680	51.960	1.00	0.00	C
ATOM	4666	CD2	LEU	490	44.889	61.653	49.464	1.00	0.00	C
ATOM	4667	C	LEU	490	43.212	65.474	51.770	1.00	0.00	C
ATOM	4668	O	LEU	490	42.546	65.845	52.737	1.00	0.00	O
ATOM	4669	N	VAL	491	42.936	65.844	50.499	1.00	0.00	N
ATOM	4670	HN	VAL	491	43.574	65.623	49.735	1.00	0.00	H
ATOM	4671	CA	VAL	491	41.724	66.553	50.264	1.00	0.00	C
ATOM	4672	CB	VAL	491	41.956	68.027	50.094	1.00	0.00	C
ATOM	4673	CG1	VAL	491	40.610	68.719	49.837	1.00	0.00	C
ATOM	4674	CG2	VAL	491	42.686	68.549	51.342	1.00	0.00	C
ATOM	4675	C	VAL	491	41.070	66.025	49.017	1.00	0.00	C
ATOM	4676	O	VAL	491	41.072	66.706	47.995	1.00	0.00	O
ATOM	4677	N	GLY	492	40.578	64.766	49.068	1.00	0.00	N
ATOM	4678	HN	GLY	492	40.884	64.201	49.860	1.00	0.00	H
ATOM	4679	CA	GLY	492	39.675	64.119	48.144	1.00	0.00	C
ATOM	4680	C	GLY	492	39.610	64.754	46.785	1.00	0.00	C
ATOM	4681	O	GLY	492	38.515	65.071	46.321	1.00	0.00	O
ATOM	4682	N	GLU	493	40.744	64.922	46.086	1.00	0.00	N
ATOM	4683	HN	GLU	493	41.637	64.635	46.486	1.00	0.00	H
ATOM	4684	CA	GLU	493	40.700	65.506	44.775	1.00	0.00	C
ATOM	4685	CB	GLU	493	40.161	64.543	43.700	1.00	0.00	C
ATOM	4686	CG	GLU	493	41.124	63.401	43.369	1.00	0.00	C
ATOM	4687	CD	GLU	493	42.197	63.944	42.435	1.00	0.00	C
ATOM	4688	OE1	GLU	493	41.834	64.368	41.305	1.00	0.00	O
ATOM	4689	OE2	GLU	493	43.391	63.944	42.836	1.00	0.00	O
ATOM	4690	C	GLU	493	39.916	66.786	44.703	1.00	0.00	C
ATOM	4691	O	GLU	493	38.741	66.805	44.343	1.00	0.00	O
ATOM	4692	N	ARG	494	40.562	67.891	45.118	1.00	0.00	N
ATOM	4693	HN	ARG	494	41.501	67.769	45.496	1.00	0.00	H
ATOM	4694	CA	ARG	494	40.040	69.226	45.073	1.00	0.00	C
ATOM	4695	CB	ARG	494	38.925	69.529	44.053	1.00	0.00	C
ATOM	4696	CG	ARG	494	38.923	71.024	43.692	1.00	0.00	C
ATOM	4697	CD	ARG	494	37.583	71.605	43.237	1.00	0.00	C
ATOM	4698	NE	ARG	494	37.038	72.385	44.385	1.00	0.00	N
ATOM	4699	HE	ARG	494	36.426	71.919	45.055	1.00	0.00	H
ATOM	4700	CZ	ARG	494	37.336	73.708	44.564	1.00	0.00	C
ATOM	4701	NH1	ARG	494	38.002	74.428	43.614	1.00	0.00	N
ATOM	4702	1HH1	ARG	494	38.224	75.415	43.747	1.00	0.00	H
ATOM	4703	2HH1	ARG	494	38.283	73.975	42.744	1.00	0.00	H
ATOM	4704	NH2	ARG	494	36.960	74.314	45.727	1.00	0.00	N
ATOM	4705	1HH2	ARG	494	37.182	75.301	45.860	1.00	0.00	H
ATOM	4706	2HH2	ARG	494	36.462	73.776	46.437	1.00	0.00	H
ATOM	4707	C	ARG	494	39.518	69.494	46.415	1.00	0.00	C
ATOM	4708	O	ARG	494	39.597	68.654	47.301	1.00	0.00	O
ATOM	4709	N	GLY	495	38.919	70.671	46.558	1.00	0.00	N
ATOM	4710	HN	GLY	495	38.831	71.256	45.727	1.00	0.00	H
ATOM	4711	CA	GLY	495	38.390	71.181	47.777	1.00	0.00	C
ATOM	4712	C	GLY	495	37.294	70.295	48.278	1.00	0.00	C
ATOM	4713	O	GLY	495	36.714	70.612	49.310	1.00	0.00	O
ATOM	4714	N	ALA	496	36.849	69.267	47.520	1.00	0.00	N
ATOM	4715	HN	ALA	496	37.296	69.001	46.642	1.00	0.00	H
ATOM	4716	CA	ALA	496	35.695	68.572	48.043	1.00	0.00	C
ATOM	4717	CB	ALA	496	34.755	68.095	46.924	1.00	0.00	C
ATOM	4718	C	ALA	496	35.980	67.361	48.895	1.00	0.00	C
ATOM	4719	O	ALA	496	35.937	66.236	48.401	1.00	0.00	O
ATOM	4720	N	GLN	497	36.456	67.525	50.148	1.00	0.00	N
ATOM	4721	HN	GLN	497	36.883	68.416	50.403	1.00	0.00	H
ATOM	4722	CA	GLN	497	36.379	66.479	51.135	1.00	0.00	C
ATOM	4723	CB	GLN	497	37.775	66.087	51.647	1.00	0.00	C
ATOM	4724	CG	GLN	497	37.822	64.769	52.421	1.00	0.00	C
ATOM	4725	CD	GLN	497	39.271	64.298	52.404	1.00	0.00	C
ATOM	4726	OE1	GLN	497	40.109	64.871	51.710	1.00	0.00	O
ATOM	4727	NE2	GLN	497	39.579	63.219	53.172	1.00	0.00	N
ATOM	4728	1HE2	GLN	497	40.549	62.904	53.161	1.00	0.00	H
ATOM	4729	2HE2	GLN	497	38.884	62.744	53.748	1.00	0.00	H
ATOM	4730	C	GLN	497	35.495	66.876	52.299	1.00	0.00	C
ATOM	4731	O	GLN	497	34.755	66.069	52.864	1.00	0.00	O
ATOM	4732	N	LEU	498	35.586	68.179	52.677	1.00	0.00	N
ATOM	4733	HN	LEU	498	36.045	68.826	52.036	1.00	0.00	H



ATOM	4734	CA	LEU	498	35.079	68.714	53.922	1.00	0.00	C
ATOM	4735	CB	LEU	498	36.176	69.380	54.774	1.00	0.00	C
ATOM	4736	CG	LEU	498	37.418	68.532	55.104	1.00	0.00	C
ATOM	4737	CD1	LEU	498	37.084	67.364	56.039	1.00	0.00	C
ATOM	4738	CD2	LEU	498	38.165	68.103	53.830	1.00	0.00	C
ATOM	4739	C	LEU	498	34.137	69.856	53.686	1.00	0.00	C
ATOM	4740	O	LEU	498	33.934	70.320	52.566	1.00	0.00	O
ATOM	4741	N	SER	499	33.558	70.357	54.799	1.00	0.00	N
ATOM	4742	HN	SER	499	33.794	69.945	55.702	1.00	0.00	H
ATOM	4743	CA	SER	499	32.626	71.444	54.762	1.00	0.00	C
ATOM	4744	CB	SER	499	31.908	71.672	56.100	1.00	0.00	C
ATOM	4745	OG	SER	499	32.850	72.051	57.092	1.00	0.00	O
ATOM	4746	HG	SER	499	32.406	72.192	57.920	1.00	0.00	H
ATOM	4747	C	SER	499	33.347	72.707	54.420	1.00	0.00	C
ATOM	4748	O	SER	499	34.463	72.964	54.871	1.00	0.00	O
ATOM	4749	N	GLY	500	32.653	73.574	53.662	1.00	0.00	N
ATOM	4750	HN	GLY	500	31.692	73.338	53.414	1.00	0.00	H
ATOM	4751	CA	GLY	500	33.193	74.811	53.185	1.00	0.00	C
ATOM	4752	C	GLY	500	33.615	75.585	54.380	1.00	0.00	C
ATOM	4753	O	GLY	500	34.538	76.398	54.319	1.00	0.00	O
ATOM	4754	N	GLY	501	32.912	75.375	55.504	1.00	0.00	N
ATOM	4755	HN	GLY	501	32.154	74.693	55.532	1.00	0.00	H
ATOM	4756	CA	GLY	501	33.260	76.137	56.659	1.00	0.00	C
ATOM	4757	C	GLY	501	34.692	75.860	57.004	1.00	0.00	C
ATOM	4758	O	GLY	501	35.486	76.787	57.136	1.00	0.00	O
ATOM	4759	N	GLN	502	35.076	74.573	57.104	1.00	0.00	N
ATOM	4760	HN	GLN	502	34.397	73.836	56.913	1.00	0.00	H
ATOM	4761	CA	GLN	502	36.416	74.209	57.473	1.00	0.00	C
ATOM	4762	CB	GLN	502	36.559	72.686	57.629	1.00	0.00	C
ATOM	4763	CG	GLN	502	35.713	72.130	58.777	1.00	0.00	C
ATOM	4764	CD	GLN	502	35.625	70.620	58.615	1.00	0.00	C
ATOM	4765	OE1	GLN	502	35.003	70.120	57.678	1.00	0.00	O
ATOM	4766	NE2	GLN	502	36.259	69.866	59.552	1.00	0.00	N
ATOM	4767	1HE2	GLN	502	36.774	70.280	60.329	1.00	0.00	H
ATOM	4768	2HE2	GLN	502	36.200	68.854	59.443	1.00	0.00	H
ATOM	4769	C	GLN	502	37.345	74.660	56.396	1.00	0.00	C
ATOM	4770	O	GLN	502	38.439	75.149	56.678	1.00	0.00	O
ATOM	4771	N	LYS	503	36.913	74.530	55.127	1.00	0.00	N
ATOM	4772	HN	LYS	503	35.974	74.178	54.939	1.00	0.00	H
ATOM	4773	CA	LYS	503	37.778	74.888	54.041	1.00	0.00	C
ATOM	4774	CB	LYS	503	37.101	74.775	52.664	1.00	0.00	C
ATOM	4775	CG	LYS	503	36.771	73.335	52.265	1.00	0.00	C
ATOM	4776	CD	LYS	503	35.898	73.235	51.014	1.00	0.00	C
ATOM	4777	CE	LYS	503	36.688	73.389	49.713	1.00	0.00	C
ATOM	4778	NZ	LYS	503	35.787	73.230	48.550	1.00	0.00	N
ATOM	4779	HZ1	LYS	503	36.314	73.333	47.683	1.00	0.00	H
ATOM	4780	HZ2	LYS	503	34.993	73.868	48.592	1.00	0.00	H
ATOM	4781	HZ3	LYS	503	35.273	72.350	48.583	1.00	0.00	H
ATOM	4782	C	LYS	503	38.186	76.311	54.230	1.00	0.00	C
ATOM	4783	O	LYS	503	39.375	76.620	54.301	1.00	0.00	O
ATOM	4784	N	GLN	504	37.200	77.189	54.456	1.00	0.00	N
ATOM	4785	HN	GLN	504	36.237	76.859	54.519	1.00	0.00	H
ATOM	4786	CA	GLN	504	37.481	78.586	54.611	1.00	0.00	C
ATOM	4787	CB	GLN	504	36.223	79.399	54.958	1.00	0.00	C
ATOM	4788	CG	GLN	504	36.488	80.892	55.164	1.00	0.00	C
ATOM	4789	CD	GLN	504	36.922	81.484	53.835	1.00	0.00	C
ATOM	4790	OE1	GLN	504	38.113	81.548	53.532	1.00	0.00	O
ATOM	4791	NE2	GLN	504	35.931	81.927	53.017	1.00	0.00	N
ATOM	4792	1HE2	GLN	504	34.944	81.874	53.268	1.00	0.00	H
ATOM	4793	2HE2	GLN	504	36.223	82.325	52.124	1.00	0.00	H
ATOM	4794	C	GLN	504	38.437	78.733	55.749	1.00	0.00	C
ATOM	4795	O	GLN	504	39.393	79.506	55.675	1.00	0.00	O
ATOM	4796	N	ARG	505	38.227	77.946	56.817	1.00	0.00	N
ATOM	4797	HN	ARG	505	37.471	77.261	56.800	1.00	0.00	H
ATOM	4798	CA	ARG	505	39.056	78.061	57.978	1.00	0.00	C
ATOM	4799	CB	ARG	505	38.622	77.091	59.088	1.00	0.00	C
ATOM	4800	CG	ARG	505	37.322	77.537	59.757	1.00	0.00	C
ATOM	4801	CD	ARG	505	36.464	76.395	60.298	1.00	0.00	C
ATOM	4802	NE	ARG	505	37.020	75.953	61.601	1.00	0.00	N
ATOM	4803	HE	ARG	505	37.945	76.258	61.903	1.00	0.00	H
ATOM	4804	CZ	ARG	505	36.268	75.130	62.386	1.00	0.00	C
ATOM	4805	NH1	ARG	505	35.016	74.761	61.983	1.00	0.00	N
ATOM	4806	1HH1	ARG	505	34.644	75.099	61.095	1.00	0.00	H
ATOM	4807	2HH1	ARG	505	34.453	74.145	62.570	1.00	0.00	H

ATOM	4808	NH2	ARG	505	36.765	74.678	63.573	1.00	0.00	N
ATOM	4809	1HH2	ARG	505	37.700	74.954	63.874	1.00	0.00	H
ATOM	4810	2HH2	ARG	505	36.202	74.062	64.160	1.00	0.00	H
ATOM	4811	C	ARG	505	40.469	77.763	57.611	1.00	0.00	C
ATOM	4812	O	ARG	505	41.365	78.550	57.910	1.00	0.00	O
ATOM	4813	N	ILE	506	40.690	76.661	56.871	1.00	0.00	N
ATOM	4814	HN	ILE	506	39.899	76.108	56.541	1.00	0.00	H
ATOM	4815	CA	ILE	506	42.027	76.254	56.541	1.00	0.00	C
ATOM	4816	CB	ILE	506	42.067	75.055	55.634	1.00	0.00	C
ATOM	4817	CG1	ILE	506	41.479	73.822	56.344	1.00	0.00	C
ATOM	4818	CG2	ILE	506	43.515	74.863	55.155	1.00	0.00	C
ATOM	4819	CD1	ILE	506	41.234	72.631	55.416	1.00	0.00	C
ATOM	4820	C	ILE	506	42.670	77.392	55.820	1.00	0.00	C
ATOM	4821	O	ILE	506	43.823	77.732	56.082	1.00	0.00	O
ATOM	4822	N	ALA	507	41.904	78.051	54.935	1.00	0.00	N
ATOM	4823	HN	ALA	507	40.926	77.790	54.813	1.00	0.00	H
ATOM	4824	CA	ALA	507	42.462	79.120	54.163	1.00	0.00	C
ATOM	4825	CB	ALA	507	41.431	79.773	53.228	1.00	0.00	C
ATOM	4826	C	ALA	507	42.962	80.180	55.085	1.00	0.00	C
ATOM	4827	O	ALA	507	44.093	80.641	54.954	1.00	0.00	O
ATOM	4828	N	ILE	508	42.162	80.529	56.102	1.00	0.00	N
ATOM	4829	HN	ILE	508	41.280	80.035	56.238	1.00	0.00	H
ATOM	4830	CA	ILE	508	42.524	81.583	57.002	1.00	0.00	C
ATOM	4831	CB	ILE	508	41.528	81.752	58.109	1.00	0.00	C
ATOM	4832	CG1	ILE	508	40.161	82.141	57.520	1.00	0.00	C
ATOM	4833	CG2	ILE	508	42.089	82.775	59.110	1.00	0.00	C
ATOM	4834	CD1	ILE	508	39.009	82.029	58.516	1.00	0.00	C
ATOM	4835	C	ILE	508	43.836	81.218	57.601	1.00	0.00	C
ATOM	4836	O	ILE	508	44.691	82.075	57.810	1.00	0.00	O
ATOM	4837	N	ALA	509	44.028	79.923	57.892	1.00	0.00	N
ATOM	4838	HN	ALA	509	43.282	79.244	57.737	1.00	0.00	H
ATOM	4839	CA	ALA	509	45.288	79.503	58.421	1.00	0.00	C
ATOM	4840	CB	ALA	509	45.333	77.994	58.715	1.00	0.00	C
ATOM	4841	C	ALA	509	46.353	79.790	57.404	1.00	0.00	C
ATOM	4842	O	ALA	509	47.394	80.352	57.743	1.00	0.00	O
ATOM	4843	N	ARG	510	46.112	79.461	56.114	1.00	0.00	N
ATOM	4844	HN	ARG	510	45.205	79.095	55.824	1.00	0.00	H
ATOM	4845	CA	ARG	510	47.178	79.645	55.163	1.00	0.00	C
ATOM	4846	CB	ARG	510	46.891	79.178	53.716	1.00	0.00	C
ATOM	4847	CG	ARG	510	45.812	79.947	52.952	1.00	0.00	C
ATOM	4848	CD	ARG	510	45.730	79.578	51.470	1.00	0.00	C
ATOM	4849	NE	ARG	510	45.199	78.190	51.382	1.00	0.00	N
ATOM	4850	HE	ARG	510	45.167	77.600	52.213	1.00	0.00	H
ATOM	4851	CZ	ARG	510	44.756	77.712	50.184	1.00	0.00	C
ATOM	4852	NH1	ARG	510	44.787	78.513	49.079	1.00	0.00	N
ATOM	4853	1HH1	ARG	510	45.140	79.467	49.149	1.00	0.00	H
ATOM	4854	2HH1	ARG	510	44.456	78.155	48.183	1.00	0.00	H
ATOM	4855	NH2	ARG	510	44.284	76.436	50.090	1.00	0.00	N
ATOM	4856	1HH2	ARG	510	44.261	75.838	50.916	1.00	0.00	H
ATOM	4857	2HH2	ARG	510	43.953	76.078	49.194	1.00	0.00	H
ATOM	4858	C	ARG	510	47.553	81.090	55.119	1.00	0.00	C
ATOM	4859	O	ARG	510	48.720	81.442	55.273	1.00	0.00	O
ATOM	4860	N	ALA	511	46.556	81.976	54.995	1.00	0.00	N
ATOM	4861	HN	ALA	511	45.594	81.644	54.925	1.00	0.00	H
ATOM	4862	CA	ALA	511	46.823	83.383	54.959	1.00	0.00	C
ATOM	4863	CB	ALA	511	45.548	84.229	54.817	1.00	0.00	C
ATOM	4864	C	ALA	511	47.463	83.743	56.258	1.00	0.00	C
ATOM	4865	O	ALA	511	48.301	84.640	56.328	1.00	0.00	O
ATOM	4866	N	LEU	512	47.070	83.039	57.331	1.00	0.00	N
ATOM	4867	HN	LEU	512	46.421	82.262	57.201	1.00	0.00	H
ATOM	4868	CA	LEU	512	47.532	83.343	58.652	1.00	0.00	C
ATOM	4869	CB	LEU	512	46.919	82.400	59.704	1.00	0.00	C
ATOM	4870	CG	LEU	512	47.098	82.853	61.166	1.00	0.00	C
ATOM	4871	CD1	LEU	512	48.571	82.874	61.604	1.00	0.00	C
ATOM	4872	CD2	LEU	512	46.378	84.189	61.407	1.00	0.00	C
ATOM	4873	C	LEU	512	49.029	83.201	58.703	1.00	0.00	C
ATOM	4874	O	LEU	512	49.702	83.999	59.352	1.00	0.00	O
ATOM	4875	N	VAL	513	49.586	82.163	58.042	1.00	0.00	N
ATOM	4876	HN	VAL	513	48.969	81.521	57.544	1.00	0.00	H
ATOM	4877	CA	VAL	513	51.005	81.914	58.003	1.00	0.00	C
ATOM	4878	CB	VAL	513	51.338	80.600	57.354	1.00	0.00	C
ATOM	4879	CG1	VAL	513	52.867	80.433	57.302	1.00	0.00	C
ATOM	4880	CG2	VAL	513	50.613	79.485	58.128	1.00	0.00	C
ATOM	4881	C	VAL	513	51.661	83.003	57.218	1.00	0.00	C

ATOM	4882	O	VAL	513	52.797	83.391	57.487	1.00	0.00	O
ATOM	4883	N	ARG	514	50.953	83.513	56.198	1.00	0.00	N
ATOM	4884	HN	ARG	514	50.033	83.128	55.981	1.00	0.00	H
ATOM	4885	CA	ARG	514	51.473	84.591	55.410	1.00	0.00	C
ATOM	4886	CB	ARG	514	50.526	84.996	54.270	1.00	0.00	C
ATOM	4887	CG	ARG	514	50.402	83.874	53.235	1.00	0.00	C
ATOM	4888	CD	ARG	514	49.532	84.199	52.021	1.00	0.00	C
ATOM	4889	NE	ARG	514	50.179	85.321	51.289	1.00	0.00	N
ATOM	4890	HE	ARG	514	49.838	86.274	51.415	1.00	0.00	H
ATOM	4891	CZ	ARG	514	51.225	85.079	50.451	1.00	0.00	C
ATOM	4892	NH1	ARG	514	51.752	83.823	50.363	1.00	0.00	N
ATOM	4893	1HH1	ARG	514	51.365	83.059	50.917	1.00	0.00	H
ATOM	4894	2HH1	ARG	514	52.535	83.642	49.735	1.00	0.00	H
ATOM	4895	NH2	ARG	514	51.743	86.100	49.710	1.00	0.00	N
ATOM	4896	1HH2	ARG	514	51.349	87.039	49.776	1.00	0.00	H
ATOM	4897	2HH2	ARG	514	52.526	85.919	49.082	1.00	0.00	H
ATOM	4898	C	ARG	514	51.703	85.760	56.336	1.00	0.00	C
ATOM	4899	O	ARG	514	52.642	86.529	56.140	1.00	0.00	O
ATOM	4900	N	ASN	515	50.839	85.910	57.366	1.00	0.00	N
ATOM	4901	HN	ASN	515	50.065	85.247	57.404	1.00	0.00	H
ATOM	4902	CA	ASN	515	50.884	86.905	58.424	1.00	0.00	C
ATOM	4903	CB	ASN	515	51.778	86.532	59.629	1.00	0.00	C
ATOM	4904	CG	ASN	515	53.241	86.450	59.215	1.00	0.00	C
ATOM	4905	OD1	ASN	515	53.613	85.683	58.328	1.00	0.00	O
ATOM	4906	ND2	ASN	515	54.104	87.260	59.886	1.00	0.00	N
ATOM	4907	1HD2	ASN	515	55.084	87.205	59.609	1.00	0.00	H
ATOM	4908	2HD2	ASN	515	53.796	87.896	60.621	1.00	0.00	H
ATOM	4909	C	ASN	515	51.210	88.304	57.966	1.00	0.00	C
ATOM	4910	O	ASN	515	52.324	88.799	58.123	1.00	0.00	O
ATOM	4911	N	PRO	516	50.213	88.923	57.388	1.00	0.00	N
ATOM	4912	CA	PRO	516	50.238	90.262	56.836	1.00	0.00	C
ATOM	4913	CD	PRO	516	49.060	88.168	56.933	1.00	0.00	C
ATOM	4914	CB	PRO	516	49.155	90.277	55.777	1.00	0.00	C
ATOM	4915	CG	PRO	516	48.163	89.205	56.250	1.00	0.00	C
ATOM	4916	C	PRO	516	49.969	91.373	57.813	1.00	0.00	C
ATOM	4917	O	PRO	516	49.834	91.142	59.011	1.00	0.00	O
ATOM	4918	N	LYS	517	50.077	92.615	57.310	1.00	0.00	N
ATOM	4919	HN	LYS	517	50.452	92.672	56.363	1.00	0.00	H
ATOM	4920	CA	LYS	517	49.739	93.874	57.917	1.00	0.00	C
ATOM	4921	CB	LYS	517	50.670	94.991	57.426	1.00	0.00	C
ATOM	4922	CG	LYS	517	52.149	94.657	57.637	1.00	0.00	C
ATOM	4923	CD	LYS	517	52.665	93.551	56.709	1.00	0.00	C
ATOM	4924	CE	LYS	517	54.111	93.116	56.962	1.00	0.00	C
ATOM	4925	NZ	LYS	517	54.178	92.212	58.133	1.00	0.00	N
ATOM	4926	HZ1	LYS	517	55.141	91.922	58.302	1.00	0.00	H
ATOM	4927	HZ2	LYS	517	53.552	91.413	58.033	1.00	0.00	H
ATOM	4928	HZ3	LYS	517	53.756	92.631	58.962	1.00	0.00	H
ATOM	4929	C	LYS	517	48.344	94.288	57.576	1.00	0.00	C
ATOM	4930	O	LYS	517	47.733	95.097	58.276	1.00	0.00	O
ATOM	4931	N	ILE	518	47.861	93.833	56.402	1.00	0.00	N
ATOM	4932	HN	ILE	518	48.413	93.186	55.839	1.00	0.00	H
ATOM	4933	CA	ILE	518	46.574	94.259	55.948	1.00	0.00	C
ATOM	4934	CB	ILE	518	46.658	95.151	54.749	1.00	0.00	C
ATOM	4935	CG1	ILE	518	47.529	96.365	55.107	1.00	0.00	C
ATOM	4936	CG2	ILE	518	45.236	95.540	54.316	1.00	0.00	C
ATOM	4937	CD1	ILE	518	47.920	97.221	53.909	1.00	0.00	C
ATOM	4938	C	ILE	518	45.823	93.022	55.600	1.00	0.00	C
ATOM	4939	O	ILE	518	46.415	92.031	55.178	1.00	0.00	O
ATOM	4940	N	LEU	519	44.496	93.030	55.812	1.00	0.00	N
ATOM	4941	HN	LEU	519	44.031	93.874	56.148	1.00	0.00	H
ATOM	4942	CA	LEU	519	43.745	91.841	55.561	1.00	0.00	C
ATOM	4943	CB	LEU	519	43.371	91.124	56.875	1.00	0.00	C
ATOM	4944	CG	LEU	519	42.837	89.683	56.739	1.00	0.00	C
ATOM	4945	CD1	LEU	519	42.507	89.094	58.119	1.00	0.00	C
ATOM	4946	CD2	LEU	519	41.660	89.581	55.760	1.00	0.00	C
ATOM	4947	C	LEU	519	42.499	92.248	54.838	1.00	0.00	C
ATOM	4948	O	LEU	519	41.750	93.105	55.306	1.00	0.00	O
ATOM	4949	N	LEU	520	42.256	91.640	53.659	1.00	0.00	N
ATOM	4950	HN	LEU	520	42.916	90.949	53.302	1.00	0.00	H
ATOM	4951	CA	LEU	520	41.081	91.955	52.903	1.00	0.00	C
ATOM	4952	CB	LEU	520	41.375	92.277	51.427	1.00	0.00	C
ATOM	4953	CG	LEU	520	42.244	93.532	51.218	1.00	0.00	C
ATOM	4954	CD1	LEU	520	43.616	93.375	51.892	1.00	0.00	C
ATOM	4955	CD2	LEU	520	42.365	93.886	49.725	1.00	0.00	C

ATOM	4956	C	LEU	520	40.204	90.747	52.909	1.00	0.00	C
ATOM	4957	O	LEU	520	40.653	89.631	52.652	1.00	0.00	O
ATOM	4958	N	LEU	521	38.913	90.935	53.228	1.00	0.00	N
ATOM	4959	HN	LEU	521	38.568	91.859	53.489	1.00	0.00	H
ATOM	4960	CA	LEU	521	38.033	89.804	53.192	1.00	0.00	C
ATOM	4961	CB	LEU	521	37.261	89.582	54.504	1.00	0.00	C
ATOM	4962	CG	LEU	521	38.171	89.351	55.725	1.00	0.00	C
ATOM	4963	CD1	LEU	521	38.928	90.634	56.107	1.00	0.00	C
ATOM	4964	CD2	LEU	521	37.388	88.734	56.895	1.00	0.00	C
ATOM	4965	C	LEU	521	37.024	90.098	52.122	1.00	0.00	C
ATOM	4966	O	LEU	521	36.211	91.010	52.258	1.00	0.00	O
ATOM	4967	N	ASP	522	37.042	89.330	51.016	1.00	0.00	N
ATOM	4968	HN	ASP	522	37.715	88.569	50.930	1.00	0.00	H
ATOM	4969	CA	ASP	522	36.108	89.591	49.962	1.00	0.00	C
ATOM	4970	CB	ASP	522	36.721	89.329	48.574	1.00	0.00	C
ATOM	4971	CG	ASP	522	35.879	90.017	47.509	1.00	0.00	C
ATOM	4972	OD1	ASP	522	34.791	90.550	47.855	1.00	0.00	O
ATOM	4973	OD2	ASP	522	36.326	90.027	46.331	1.00	0.00	O
ATOM	4974	C	ASP	522	34.944	88.665	50.146	1.00	0.00	C
ATOM	4975	O	ASP	522	34.843	87.624	49.498	1.00	0.00	O
ATOM	4976	N	GLU	523	34.015	89.041	51.043	1.00	0.00	N
ATOM	4977	HN	GLU	523	34.164	89.899	51.575	1.00	0.00	H
ATOM	4978	CA	GLU	523	32.818	88.277	51.280	1.00	0.00	C
ATOM	4979	CB	GLU	523	32.037	88.041	49.976	1.00	0.00	C
ATOM	4980	CG	GLU	523	31.606	89.323	49.259	1.00	0.00	C
ATOM	4981	CD	GLU	523	31.135	88.932	47.864	1.00	0.00	C
ATOM	4982	OE1	GLU	523	30.650	87.780	47.709	1.00	0.00	O
ATOM	4983	OE2	GLU	523	31.255	89.775	46.935	1.00	0.00	O
ATOM	4984	C	GLU	523	33.154	86.912	51.824	1.00	0.00	C
ATOM	4985	O	GLU	523	32.311	86.015	51.768	1.00	0.00	O
ATOM	4986	N	ALA	524	34.311	86.764	52.513	1.00	0.00	N
ATOM	4987	HN	ALA	524	34.817	87.591	52.828	1.00	0.00	H
ATOM	4988	CA	ALA	524	34.837	85.455	52.807	1.00	0.00	C
ATOM	4989	CB	ALA	524	36.062	85.519	53.733	1.00	0.00	C
ATOM	4990	C	ALA	524	33.834	84.542	53.470	1.00	0.00	C
ATOM	4991	O	ALA	524	33.425	83.567	52.851	1.00	0.00	O
ATOM	4992	N	THR	525	33.258	84.892	54.630	1.00	0.00	N
ATOM	4993	HN	THR	525	33.429	85.820	55.018	1.00	0.00	H
ATOM	4994	CA	THR	525	32.400	83.971	55.334	1.00	0.00	C
ATOM	4995	CB	THR	525	31.799	84.569	56.552	1.00	0.00	C
ATOM	4996	OG1	THR	525	32.802	84.968	57.469	1.00	0.00	O
ATOM	4997	HG1	THR	525	32.417	85.351	58.249	1.00	0.00	H
ATOM	4998	CG2	THR	525	30.911	83.495	57.168	1.00	0.00	C
ATOM	4999	C	THR	525	31.232	83.552	54.487	1.00	0.00	C
ATOM	5000	O	THR	525	30.730	82.441	54.643	1.00	0.00	O
ATOM	5001	N	SER	526	30.775	84.427	53.572	1.00	0.00	N
ATOM	5002	HN	SER	526	31.309	85.285	53.438	1.00	0.00	H
ATOM	5003	CA	SER	526	29.589	84.250	52.764	1.00	0.00	C
ATOM	5004	CB	SER	526	29.483	85.271	51.616	1.00	0.00	C
ATOM	5005	OG	SER	526	29.371	86.589	52.132	1.00	0.00	O
ATOM	5006	HG	SER	526	29.306	87.219	51.424	1.00	0.00	H
ATOM	5007	C	SER	526	29.475	82.894	52.143	1.00	0.00	C
ATOM	5008	O	SER	526	30.392	82.076	52.168	1.00	0.00	O
ATOM	5009	N	ALA	527	28.267	82.625	51.597	1.00	0.00	N
ATOM	5010	HN	ALA	527	27.541	83.339	51.657	1.00	0.00	H
ATOM	5011	CA	ALA	527	27.950	81.391	50.939	1.00	0.00	C
ATOM	5012	CB	ALA	527	28.694	81.204	49.605	1.00	0.00	C
ATOM	5013	C	ALA	527	28.328	80.275	51.851	1.00	0.00	C
ATOM	5014	O	ALA	527	28.978	79.320	51.433	1.00	0.00	O
ATOM	5015	N	LEU	528	27.945	80.388	53.137	1.00	0.00	N
ATOM	5016	HN	LEU	528	27.432	81.217	53.436	1.00	0.00	H
ATOM	5017	CA	LEU	528	28.246	79.362	54.096	1.00	0.00	C
ATOM	5018	CB	LEU	528	29.540	79.677	54.868	1.00	0.00	C
ATOM	5019	CG	LEU	528	30.059	78.542	55.766	1.00	0.00	C
ATOM	5020	CD1	LEU	528	30.472	77.313	54.939	1.00	0.00	C
ATOM	5021	CD2	LEU	528	31.186	79.044	56.686	1.00	0.00	C
ATOM	5022	C	LEU	528	27.082	79.348	55.048	1.00	0.00	C
ATOM	5023	O	LEU	528	26.314	80.305	55.098	1.00	0.00	O
ATOM	5024	N	ASP	529	26.893	78.270	55.838	1.00	0.00	N
ATOM	5025	HN	ASP	529	27.555	77.494	55.837	1.00	0.00	H
ATOM	5026	CA	ASP	529	25.725	78.250	56.684	1.00	0.00	C
ATOM	5027	CB	ASP	529	25.393	76.871	57.283	1.00	0.00	C
ATOM	5028	CG	ASP	529	26.464	76.495	58.287	1.00	0.00	C
ATOM	5029	OD1	ASP	529	26.427	77.077	59.401	1.00	0.00	O

ATOM	5030	OD2	ASP	529	27.318	75.625	57.971	1.00	0.00	O
ATOM	5031	C	ASP	529	25.898	79.261	57.793	1.00	0.00	C
ATOM	5032	O	ASP	529	27.013	79.700	58.065	1.00	0.00	O
ATOM	5033	N	THR	530	24.781	79.668	58.452	1.00	0.00	N
ATOM	5034	HN	THR	530	23.893	79.225	58.215	1.00	0.00	H
ATOM	5035	CA	THR	530	24.781	80.698	59.474	1.00	0.00	C
ATOM	5036	CB	THR	530	23.421	80.945	60.051	1.00	0.00	C
ATOM	5037	OG1	THR	530	22.512	81.305	59.023	1.00	0.00	O
ATOM	5038	HG1	THR	530	21.649	81.462	59.389	1.00	0.00	H
ATOM	5039	CG2	THR	530	23.537	82.091	61.070	1.00	0.00	C
ATOM	5040	C	THR	530	25.674	80.282	60.607	1.00	0.00	C
ATOM	5041	O	THR	530	26.587	81.016	60.976	1.00	0.00	O
ATOM	5042	N	GLU	531	25.493	79.059	61.143	1.00	0.00	N
ATOM	5043	HN	GLU	531	24.835	78.408	60.715	1.00	0.00	H
ATOM	5044	CA	GLU	531	26.226	78.670	62.319	1.00	0.00	C
ATOM	5045	CB	GLU	531	25.882	77.234	62.760	1.00	0.00	C
ATOM	5046	CG	GLU	531	26.940	76.552	63.633	1.00	0.00	C
ATOM	5047	CD	GLU	531	27.398	77.505	64.722	1.00	0.00	C
ATOM	5048	OE1	GLU	531	26.540	78.020	65.486	1.00	0.00	O
ATOM	5049	OE2	GLU	531	28.633	77.743	64.783	1.00	0.00	O
ATOM	5050	C	GLU	531	27.701	78.761	62.084	1.00	0.00	C
ATOM	5051	O	GLU	531	28.420	79.389	62.862	1.00	0.00	O
ATOM	5052	N	SER	532	28.189	78.164	60.989	1.00	0.00	N
ATOM	5053	HN	SER	532	27.547	77.703	60.344	1.00	0.00	H
ATOM	5054	CA	SER	532	29.590	78.159	60.705	1.00	0.00	C
ATOM	5055	CB	SER	532	29.908	77.366	59.431	1.00	0.00	C
ATOM	5056	OG	SER	532	29.199	77.927	58.337	1.00	0.00	O
ATOM	5057	HG	SER	532	29.396	77.436	57.548	1.00	0.00	H
ATOM	5058	C	SER	532	30.012	79.568	60.501	1.00	0.00	C
ATOM	5059	O	SER	532	31.051	79.969	61.019	1.00	0.00	O
ATOM	5060	N	GLU	533	29.163	80.372	59.825	1.00	0.00	N
ATOM	5061	HN	GLU	533	28.263	79.996	59.528	1.00	0.00	H
ATOM	5062	CA	GLU	533	29.480	81.733	59.510	1.00	0.00	C
ATOM	5063	CB	GLU	533	28.283	82.503	58.922	1.00	0.00	C
ATOM	5064	CG	GLU	533	28.519	84.011	58.794	1.00	0.00	C
ATOM	5065	CD	GLU	533	27.473	84.577	57.847	1.00	0.00	C
ATOM	5066	OE1	GLU	533	27.346	84.029	56.720	1.00	0.00	O
ATOM	5067	OE2	GLU	533	26.785	85.557	58.237	1.00	0.00	O
ATOM	5068	C	GLU	533	29.859	82.394	60.789	1.00	0.00	C
ATOM	5069	O	GLU	533	30.739	83.253	60.815	1.00	0.00	O
ATOM	5070	N	ALA	534	29.201	82.008	61.894	1.00	0.00	N
ATOM	5071	HN	ALA	534	28.448	81.322	61.846	1.00	0.00	H
ATOM	5072	CA	ALA	534	29.591	82.590	63.142	1.00	0.00	C
ATOM	5073	CB	ALA	534	28.699	82.142	64.311	1.00	0.00	C
ATOM	5074	C	ALA	534	30.999	82.187	63.477	1.00	0.00	C
ATOM	5075	O	ALA	534	31.865	83.039	63.660	1.00	0.00	O
ATOM	5076	N	VAL	535	31.291	80.872	63.459	1.00	0.00	N
ATOM	5077	HN	VAL	535	30.580	80.213	63.142	1.00	0.00	H
ATOM	5078	CA	VAL	535	32.574	80.366	63.872	1.00	0.00	C
ATOM	5079	CB	VAL	535	32.656	78.874	63.744	1.00	0.00	C
ATOM	5080	CG1	VAL	535	34.052	78.411	64.195	1.00	0.00	C
ATOM	5081	CG2	VAL	535	31.491	78.252	64.531	1.00	0.00	C
ATOM	5082	C	VAL	535	33.628	80.956	62.984	1.00	0.00	C
ATOM	5083	O	VAL	535	34.688	81.361	63.457	1.00	0.00	O
ATOM	5084	N	VAL	536	33.349	81.012	61.670	1.00	0.00	N
ATOM	5085	HN	VAL	536	32.434	80.691	61.353	1.00	0.00	H
ATOM	5086	CA	VAL	536	34.278	81.503	60.691	1.00	0.00	C
ATOM	5087	CB	VAL	536	33.743	81.390	59.293	1.00	0.00	C
ATOM	5088	CG1	VAL	536	34.742	82.049	58.328	1.00	0.00	C
ATOM	5089	CG2	VAL	536	33.467	79.906	58.993	1.00	0.00	C
ATOM	5090	C	VAL	536	34.557	82.947	60.950	1.00	0.00	C
ATOM	5091	O	VAL	536	35.711	83.370	60.983	1.00	0.00	O
ATOM	5092	N	GLN	537	33.503	83.745	61.176	1.00	0.00	N
ATOM	5093	HN	GLN	537	32.561	83.355	61.187	1.00	0.00	H
ATOM	5094	CA	GLN	537	33.701	85.144	61.402	1.00	0.00	C
ATOM	5095	CB	GLN	537	32.373	85.880	61.665	1.00	0.00	C
ATOM	5096	CG	GLN	537	32.480	87.407	61.698	1.00	0.00	C
ATOM	5097	CD	GLN	537	32.416	87.921	60.267	1.00	0.00	C
ATOM	5098	OE1	GLN	537	31.537	87.538	59.496	1.00	0.00	O
ATOM	5099	NE2	GLN	537	33.371	88.816	59.899	1.00	0.00	N
ATOM	5100	1HE2	GLN	537	34.100	89.134	60.538	1.00	0.00	H
ATOM	5101	2HE2	GLN	537	33.328	89.160	58.940	1.00	0.00	H
ATOM	5102	C	GLN	537	34.540	85.250	62.642	1.00	0.00	C
ATOM	5103	O	GLN	537	35.384	86.136	62.756	1.00	0.00	O

ATOM	5104	N	VAL	538	34.323	84.328	63.602	1.00	0.00	N
ATOM	5105	HN	VAL	538	33.633	83.597	63.427	1.00	0.00	H
ATOM	5106	CA	VAL	538	35.019	84.327	64.861	1.00	0.00	C
ATOM	5107	CB	VAL	538	34.618	83.176	65.737	1.00	0.00	C
ATOM	5108	CG1	VAL	538	35.532	83.164	66.973	1.00	0.00	C
ATOM	5109	CG2	VAL	538	33.126	83.315	66.079	1.00	0.00	C
ATOM	5110	C	VAL	538	36.499	84.217	64.643	1.00	0.00	C
ATOM	5111	O	VAL	538	37.272	84.961	65.242	1.00	0.00	O
ATOM	5112	N	ALA	539	36.936	83.275	63.788	1.00	0.00	N
ATOM	5113	HN	ALA	539	36.253	82.674	63.327	1.00	0.00	H
ATOM	5114	CA	ALA	539	38.332	83.086	63.502	1.00	0.00	C
ATOM	5115	CB	ALA	539	38.590	81.940	62.515	1.00	0.00	C
ATOM	5116	C	ALA	539	38.832	84.320	62.838	1.00	0.00	C
ATOM	5117	O	ALA	539	39.942	84.777	63.104	1.00	0.00	O
ATOM	5118	N	LEU	540	38.007	84.892	61.944	1.00	0.00	N
ATOM	5119	HN	LEU	540	37.084	84.491	61.779	1.00	0.00	H
ATOM	5120	CA	LEU	540	38.413	86.055	61.225	1.00	0.00	C
ATOM	5121	CB	LEU	540	37.310	86.582	60.287	1.00	0.00	C
ATOM	5122	CG	LEU	540	36.953	85.618	59.139	1.00	0.00	C
ATOM	5123	CD1	LEU	540	35.853	86.202	58.237	1.00	0.00	C
ATOM	5124	CD2	LEU	540	38.204	85.209	58.346	1.00	0.00	C
ATOM	5125	C	LEU	540	38.676	87.110	62.243	1.00	0.00	C
ATOM	5126	O	LEU	540	39.713	87.768	62.209	1.00	0.00	O
ATOM	5127	N	ASP	541	37.759	87.240	63.218	1.00	0.00	N
ATOM	5128	HN	ASP	541	36.980	86.583	63.248	1.00	0.00	H
ATOM	5129	CA	ASP	541	37.833	88.265	64.217	1.00	0.00	C
ATOM	5130	CB	ASP	541	36.674	88.177	65.225	1.00	0.00	C
ATOM	5131	CG	ASP	541	35.372	88.447	64.481	1.00	0.00	C
ATOM	5132	OD1	ASP	541	35.436	88.687	63.247	1.00	0.00	O
ATOM	5133	OD2	ASP	541	34.296	88.414	65.136	1.00	0.00	O
ATOM	5134	C	ASP	541	39.108	88.118	64.989	1.00	0.00	C
ATOM	5135	O	ASP	541	39.843	89.085	65.172	1.00	0.00	O
ATOM	5136	N	LYS	542	39.441	86.893	65.428	1.00	0.00	N
ATOM	5137	HN	LYS	542	38.855	86.088	65.206	1.00	0.00	H
ATOM	5138	CA	LYS	542	40.627	86.731	66.211	1.00	0.00	C
ATOM	5139	CB	LYS	542	40.880	85.285	66.677	1.00	0.00	C
ATOM	5140	CG	LYS	542	39.878	84.799	67.727	1.00	0.00	C
ATOM	5141	CD	LYS	542	40.122	83.361	68.189	1.00	0.00	C
ATOM	5142	CE	LYS	542	40.080	82.328	67.063	1.00	0.00	C
ATOM	5143	NZ	LYS	542	40.514	81.008	67.573	1.00	0.00	N
ATOM	5144	HZ1	LYS	542	40.486	80.319	66.822	1.00	0.00	H
ATOM	5145	HZ2	LYS	542	39.970	80.713	68.384	1.00	0.00	H
ATOM	5146	HZ3	LYS	542	41.431	81.052	68.018	1.00	0.00	H
ATOM	5147	C	LYS	542	41.789	87.158	65.373	1.00	0.00	C
ATOM	5148	O	LYS	542	42.821	87.561	65.902	1.00	0.00	O
ATOM	5149	N	ALA	543	41.694	86.965	64.046	1.00	0.00	N
ATOM	5150	HN	ALA	543	40.842	86.554	63.666	1.00	0.00	H
ATOM	5151	CA	ALA	543	42.759	87.321	63.146	1.00	0.00	C
ATOM	5152	CB	ALA	543	42.600	86.658	61.768	1.00	0.00	C
ATOM	5153	C	ALA	543	42.950	88.798	62.887	1.00	0.00	C
ATOM	5154	O	ALA	543	44.063	89.308	62.998	1.00	0.00	O
ATOM	5155	N	ARG	544	41.851	89.510	62.555	1.00	0.00	N
ATOM	5156	HN	ARG	544	40.944	89.074	62.720	1.00	0.00	H
ATOM	5157	CA	ARG	544	41.855	90.839	61.985	1.00	0.00	C
ATOM	5158	CB	ARG	544	40.460	91.287	61.515	1.00	0.00	C
ATOM	5159	CG	ARG	544	39.827	90.420	60.428	1.00	0.00	C
ATOM	5160	CD	ARG	544	38.637	91.106	59.753	1.00	0.00	C
ATOM	5161	NE	ARG	544	37.666	91.496	60.816	1.00	0.00	N
ATOM	5162	HE	ARG	544	37.786	92.379	61.312	1.00	0.00	H
ATOM	5163	CZ	ARG	544	36.618	90.681	61.131	1.00	0.00	C
ATOM	5164	NH1	ARG	544	36.459	89.490	60.484	1.00	0.00	N
ATOM	5165	1HH1	ARG	544	37.130	89.204	59.771	1.00	0.00	H
ATOM	5166	2HH1	ARG	544	35.676	88.881	60.719	1.00	0.00	H
ATOM	5167	NH2	ARG	544	35.720	91.064	62.086	1.00	0.00	N
ATOM	5168	1HH2	ARG	544	35.839	91.954	62.570	1.00	0.00	H
ATOM	5169	2HH2	ARG	544	34.937	90.455	62.321	1.00	0.00	H
ATOM	5170	C	ARG	544	42.336	91.975	62.819	1.00	0.00	C
ATOM	5171	O	ARG	544	43.132	92.744	62.309	1.00	0.00	O
ATOM	5172	N	LYS	545	41.929	92.132	64.093	1.00	0.00	N
ATOM	5173	HN	LYS	545	41.440	91.377	64.573	1.00	0.00	H
ATOM	5174	CA	LYS	545	42.191	93.381	64.776	1.00	0.00	C
ATOM	5175	CB	LYS	545	41.692	93.411	66.231	1.00	0.00	C
ATOM	5176	CG	LYS	545	40.180	93.597	66.367	1.00	0.00	C
ATOM	5177	CD	LYS	545	39.358	92.412	65.863	1.00	0.00	C

ATOM	5178	CE	LYS	545	37.852	92.626	66.019	1.00	0.00	C
ATOM	5179	NZ	LYS	545	37.524	92.838	67.447	1.00	0.00	N
ATOM	5180	HZ1	LYS	545	36.519	92.981	67.551	1.00	0.00	H
ATOM	5181	HZ2	LYS	545	38.065	93.600	67.857	1.00	0.00	H
ATOM	5182	HZ3	LYS	545	37.868	92.080	68.037	1.00	0.00	H
ATOM	5183	C	LYS	545	43.648	93.709	64.813	1.00	0.00	C
ATOM	5184	O	LYS	545	44.017	94.868	64.621	1.00	0.00	O
ATOM	5185	N	GLY	546	44.513	92.700	65.014	1.00	0.00	N
ATOM	5186	HN	GLY	546	44.160	91.748	65.109	1.00	0.00	H
ATOM	5187	CA	GLY	546	45.923	92.941	65.097	1.00	0.00	C
ATOM	5188	C	GLY	546	46.321	93.633	63.832	1.00	0.00	C
ATOM	5189	O	GLY	546	47.228	94.464	63.823	1.00	0.00	O
ATOM	5190	N	ARG	547	45.637	93.298	62.725	1.00	0.00	N
ATOM	5191	HN	ARG	547	44.873	92.627	62.802	1.00	0.00	H
ATOM	5192	CA	ARG	547	45.946	93.853	61.436	1.00	0.00	C
ATOM	5193	CB	ARG	547	46.038	92.766	60.357	1.00	0.00	C
ATOM	5194	CG	ARG	547	47.291	91.902	60.499	1.00	0.00	C
ATOM	5195	CD	ARG	547	47.244	90.590	59.715	1.00	0.00	C
ATOM	5196	NE	ARG	547	46.549	89.583	60.562	1.00	0.00	N
ATOM	5197	HE	ARG	547	45.566	89.361	60.402	1.00	0.00	H
ATOM	5198	CZ	ARG	547	47.247	88.960	61.557	1.00	0.00	C
ATOM	5199	NH1	ARG	547	48.532	89.332	61.821	1.00	0.00	N
ATOM	5200	1HH1	ARG	547	49.053	88.867	62.564	1.00	0.00	H
ATOM	5201	2HH1	ARG	547	48.967	90.073	61.271	1.00	0.00	H
ATOM	5202	NH2	ARG	547	46.666	87.969	62.292	1.00	0.00	N
ATOM	5203	1HH2	ARG	547	47.187	87.504	63.035	1.00	0.00	H
ATOM	5204	2HH2	ARG	547	45.705	87.691	62.095	1.00	0.00	H
ATOM	5205	C	ARG	547	44.931	94.882	60.969	1.00	0.00	C
ATOM	5206	O	ARG	547	43.773	94.931	61.366	1.00	0.00	O
ATOM	5207	N	THR	548	45.346	95.812	60.098	1.00	0.00	N
ATOM	5208	HN	THR	548	46.321	95.871	59.804	1.00	0.00	H
ATOM	5209	CA	THR	548	44.351	96.725	59.596	1.00	0.00	C
ATOM	5210	CB	THR	548	44.949	97.974	59.010	1.00	0.00	C
ATOM	5211	OG1	THR	548	43.930	98.832	58.519	1.00	0.00	O
ATOM	5212	HG1	THR	548	43.323	99.066	59.211	1.00	0.00	H
ATOM	5213	CG2	THR	548	45.931	97.595	57.890	1.00	0.00	C
ATOM	5214	C	THR	548	43.625	95.989	58.503	1.00	0.00	C
ATOM	5215	O	THR	548	44.284	95.420	57.636	1.00	0.00	O
ATOM	5216	N	THR	549	42.262	95.961	58.496	1.00	0.00	N
ATOM	5217	HN	THR	549	41.708	96.474	59.181	1.00	0.00	H
ATOM	5218	CA	THR	549	41.651	95.164	57.464	1.00	0.00	C
ATOM	5219	CB	THR	549	41.129	93.827	57.913	1.00	0.00	C
ATOM	5220	OG1	THR	549	39.961	93.996	58.694	1.00	0.00	O
ATOM	5221	HG1	THR	549	39.297	94.443	58.183	1.00	0.00	H
ATOM	5222	CG2	THR	549	42.203	93.104	58.739	1.00	0.00	C
ATOM	5223	C	THR	549	40.473	95.813	56.795	1.00	0.00	C
ATOM	5224	O	THR	549	39.582	96.386	57.424	1.00	0.00	O
ATOM	5225	N	ILE	550	40.410	95.654	55.458	1.00	0.00	N
ATOM	5226	HN	ILE	550	41.150	95.149	54.970	1.00	0.00	H
ATOM	5227	CA	ILE	550	39.308	96.192	54.722	1.00	0.00	C
ATOM	5228	CB	ILE	550	39.757	96.979	53.514	1.00	0.00	C
ATOM	5229	CG1	ILE	550	38.609	97.803	52.913	1.00	0.00	C
ATOM	5230	CG2	ILE	550	40.425	96.017	52.517	1.00	0.00	C
ATOM	5231	CD1	ILE	550	37.500	96.949	52.307	1.00	0.00	C
ATOM	5232	C	ILE	550	38.450	95.022	54.322	1.00	0.00	C
ATOM	5233	O	ILE	550	38.919	94.066	53.707	1.00	0.00	O
ATOM	5234	N	VAL	551	37.153	95.044	54.703	1.00	0.00	N
ATOM	5235	HN	VAL	551	36.781	95.841	55.220	1.00	0.00	H
ATOM	5236	CA	VAL	551	36.303	93.930	54.371	1.00	0.00	C
ATOM	5237	CB	VAL	551	35.756	93.218	55.573	1.00	0.00	C
ATOM	5238	CG1	VAL	551	34.869	94.197	56.363	1.00	0.00	C
ATOM	5239	CG2	VAL	551	35.016	91.957	55.096	1.00	0.00	C
ATOM	5240	C	VAL	551	35.121	94.402	53.571	1.00	0.00	C
ATOM	5241	O	VAL	551	34.476	95.395	53.906	1.00	0.00	O
ATOM	5242	N	ILE	552	34.803	93.671	52.481	1.00	0.00	N
ATOM	5243	HN	ILE	552	35.382	92.865	52.246	1.00	0.00	H
ATOM	5244	CA	ILE	552	33.679	93.985	51.638	1.00	0.00	C
ATOM	5245	CB	ILE	552	34.070	94.201	50.196	1.00	0.00	C
ATOM	5246	CG1	ILE	552	32.885	94.670	49.324	1.00	0.00	C
ATOM	5247	CG2	ILE	552	34.747	92.916	49.692	1.00	0.00	C
ATOM	5248	CD1	ILE	552	31.804	93.616	49.064	1.00	0.00	C
ATOM	5249	C	ILE	552	32.765	92.813	51.724	1.00	0.00	C
ATOM	5250	O	ILE	552	33.195	91.670	51.580	1.00	0.00	O
ATOM	5251	N	ALA	553	31.465	93.038	51.986	1.00	0.00	N

ATOM	5252	HN	ALA	553	31.069	93.971	52.100	1.00	0.00	H
ATOM	5253	CA	ALA	553	30.695	91.840	52.088	1.00	0.00	C
ATOM	5254	CB	ALA	553	30.997	91.039	53.367	1.00	0.00	C
ATOM	5255	C	ALA	553	29.230	92.114	52.090	1.00	0.00	C
ATOM	5256	O	ALA	553	28.759	93.250	52.147	1.00	0.00	O
ATOM	5257	N	HIS	554	28.489	91.013	51.884	1.00	0.00	N
ATOM	5258	HN	HIS	554	28.989	90.146	51.686	1.00	0.00	H
ATOM	5259	CA	HIS	554	27.070	90.949	51.917	1.00	0.00	C
ATOM	5260	ND1	HIS	554	26.243	91.072	48.838	1.00	0.00	N
ATOM	5261	HD1	HIS	554	25.535	91.737	49.151	1.00	0.00	H
ATOM	5262	CG	HIS	554	26.823	90.075	49.590	1.00	0.00	C
ATOM	5263	CB	HIS	554	26.506	89.827	51.033	1.00	0.00	C
ATOM	5264	NE2	HIS	554	27.684	90.029	47.506	1.00	0.00	N
ATOM	5265	HE2	HIS	554	28.236	89.767	46.690	1.00	0.00	H
ATOM	5266	CD2	HIS	554	27.700	89.447	48.761	1.00	0.00	C
ATOM	5267	CE1	HIS	554	26.794	91.000	47.601	1.00	0.00	C
ATOM	5268	C	HIS	554	26.488	90.793	53.304	1.00	0.00	C
ATOM	5269	O	HIS	554	25.372	91.243	53.543	1.00	0.00	O
ATOM	5270	N	ARG	555	27.192	90.146	54.261	1.00	0.00	N
ATOM	5271	HN	ARG	555	28.171	89.907	54.104	1.00	0.00	H
ATOM	5272	CA	ARG	555	26.552	89.795	55.505	1.00	0.00	C
ATOM	5273	CB	ARG	555	27.398	88.854	56.385	1.00	0.00	C
ATOM	5274	CG	ARG	555	27.912	87.583	55.697	1.00	0.00	C
ATOM	5275	CD	ARG	555	27.200	87.227	54.393	1.00	0.00	C
ATOM	5276	NE	ARG	555	25.741	87.139	54.672	1.00	0.00	N
ATOM	5277	HE	ARG	555	25.407	86.958	55.619	1.00	0.00	H
ATOM	5278	CZ	ARG	555	24.855	87.303	53.649	1.00	0.00	C
ATOM	5279	NH1	ARG	555	25.310	87.512	52.379	1.00	0.00	N
ATOM	5280	1HH1	ARG	555	24.647	87.635	51.614	1.00	0.00	H
ATOM	5281	2HH1	ARG	555	26.313	87.537	52.195	1.00	0.00	H
ATOM	5282	NH2	ARG	555	23.514	87.269	53.895	1.00	0.00	N
ATOM	5283	1HH2	ARG	555	22.851	87.392	53.130	1.00	0.00	H
ATOM	5284	2HH2	ARG	555	23.174	87.113	54.844	1.00	0.00	H
ATOM	5285	C	ARG	555	26.345	91.020	56.300	1.00	0.00	C
ATOM	5286	O	ARG	555	27.168	91.391	57.132	1.00	0.00	O
ATOM	5287	N	LEU	556	25.166	91.621	56.125	1.00	0.00	N
ATOM	5288	HN	LEU	556	24.479	91.222	55.485	1.00	0.00	H
ATOM	5289	CA	LEU	556	24.870	92.820	56.834	1.00	0.00	C
ATOM	5290	CB	LEU	556	23.454	93.366	56.586	1.00	0.00	C
ATOM	5291	CG	LEU	556	23.214	93.890	55.160	1.00	0.00	C
ATOM	5292	CD1	LEU	556	24.205	95.010	54.804	1.00	0.00	C
ATOM	5293	CD2	LEU	556	23.170	92.753	54.134	1.00	0.00	C
ATOM	5294	C	LEU	556	24.954	92.472	58.273	1.00	0.00	C
ATOM	5295	O	LEU	556	25.306	93.301	59.104	1.00	0.00	O
ATOM	5296	N	SER	557	24.647	91.212	58.606	1.00	0.00	N
ATOM	5297	HN	SER	557	24.370	90.536	57.895	1.00	0.00	H
ATOM	5298	CA	SER	557	24.718	90.837	59.991	1.00	0.00	C
ATOM	5299	CB	SER	557	24.456	89.340	60.197	1.00	0.00	C
ATOM	5300	OG	SER	557	23.194	88.996	59.651	1.00	0.00	O
ATOM	5301	HG	SER	557	23.032	88.069	59.779	1.00	0.00	H
ATOM	5302	C	SER	557	26.110	91.094	60.515	1.00	0.00	C
ATOM	5303	O	SER	557	26.279	91.701	61.570	1.00	0.00	O
ATOM	5304	N	THR	558	27.138	90.614	59.785	1.00	0.00	N
ATOM	5305	HN	THR	558	26.903	90.152	58.907	1.00	0.00	H
ATOM	5306	CA	THR	558	28.539	90.691	60.127	1.00	0.00	C
ATOM	5307	CB	THR	558	29.383	89.691	59.390	1.00	0.00	C
ATOM	5308	OG1	THR	558	29.390	89.969	57.997	1.00	0.00	O
ATOM	5309	HG1	THR	558	29.750	90.834	57.841	1.00	0.00	H
ATOM	5310	CG2	THR	558	28.801	88.292	59.643	1.00	0.00	C
ATOM	5311	C	THR	558	29.110	92.037	59.853	1.00	0.00	C
ATOM	5312	O	THR	558	30.256	92.306	60.214	1.00	0.00	O
ATOM	5313	N	VAL	559	28.403	92.863	59.067	1.00	0.00	N
ATOM	5314	HN	VAL	559	27.502	92.580	58.681	1.00	0.00	H
ATOM	5315	CA	VAL	559	28.952	94.152	58.788	1.00	0.00	C
ATOM	5316	CB	VAL	559	28.236	94.983	57.757	1.00	0.00	C
ATOM	5317	CG1	VAL	559	28.242	94.245	56.419	1.00	0.00	C
ATOM	5318	CG2	VAL	559	26.856	95.388	58.274	1.00	0.00	C
ATOM	5319	C	VAL	559	28.952	94.962	60.027	1.00	0.00	C
ATOM	5320	O	VAL	559	29.879	95.732	60.262	1.00	0.00	O
ATOM	5321	N	ARG	560	27.952	94.722	60.892	1.00	0.00	N
ATOM	5322	HN	ARG	560	27.392	93.878	60.776	1.00	0.00	H
ATOM	5323	CA	ARG	560	27.648	95.610	61.968	1.00	0.00	C
ATOM	5324	CB	ARG	560	26.606	95.034	62.931	1.00	0.00	C
ATOM	5325	CG	ARG	560	26.231	96.004	64.047	1.00	0.00	C



ATOM	5326	CD	ARG	560	24.915	95.636	64.723	1.00	0.00	C
ATOM	5327	NE	ARG	560	23.851	95.766	63.687	1.00	0.00	N
ATOM	5328	HE	ARG	560	23.909	96.504	62.985	1.00	0.00	H
ATOM	5329	CZ	ARG	560	22.800	94.897	63.679	1.00	0.00	C
ATOM	5330	NH1	ARG	560	22.724	93.911	64.620	1.00	0.00	N
ATOM	5331	1HH1	ARG	560	23.451	93.828	65.331	1.00	0.00	H
ATOM	5332	2HH1	ARG	560	21.938	93.261	64.614	1.00	0.00	H
ATOM	5333	NH2	ARG	560	21.827	95.008	62.728	1.00	0.00	N
ATOM	5334	1HH2	ARG	560	21.884	95.745	62.025	1.00	0.00	H
ATOM	5335	2HH2	ARG	560	21.041	94.358	62.722	1.00	0.00	H
ATOM	5336	C	ARG	560	28.872	95.988	62.767	1.00	0.00	C
ATOM	5337	O	ARG	560	29.103	97.177	62.982	1.00	0.00	O
ATOM	5338	N	ASN	561	29.729	95.034	63.180	1.00	0.00	N
ATOM	5339	HN	ASN	561	29.579	94.052	62.948	1.00	0.00	H
ATOM	5340	CA	ASN	561	30.866	95.451	63.962	1.00	0.00	C
ATOM	5341	CB	ASN	561	31.465	94.296	64.785	1.00	0.00	C
ATOM	5342	CG	ASN	561	31.929	93.200	63.832	1.00	0.00	C
ATOM	5343	OD1	ASN	561	31.271	92.898	62.837	1.00	0.00	O
ATOM	5344	ND2	ASN	561	33.107	92.594	64.139	1.00	0.00	N
ATOM	5345	1HD2	ASN	561	33.652	92.844	64.964	1.00	0.00	H
ATOM	5346	2HD2	ASN	561	33.417	91.861	63.501	1.00	0.00	H
ATOM	5347	C	ASN	561	31.941	95.998	63.062	1.00	0.00	C
ATOM	5348	O	ASN	561	33.093	95.567	63.100	1.00	0.00	O
ATOM	5349	N	ALA	562	31.608	97.030	62.266	1.00	0.00	N
ATOM	5350	HN	ALA	562	30.654	97.392	62.279	1.00	0.00	H
ATOM	5351	CA	ALA	562	32.580	97.624	61.402	1.00	0.00	C
ATOM	5352	CB	ALA	562	32.048	97.911	59.986	1.00	0.00	C
ATOM	5353	C	ALA	562	32.938	98.930	62.023	1.00	0.00	C
ATOM	5354	O	ALA	562	32.067	99.673	62.478	1.00	0.00	O
ATOM	5355	N	ASP	563	34.249	99.237	62.056	1.00	0.00	N
ATOM	5356	HN	ASP	563	34.933	98.586	61.671	1.00	0.00	H
ATOM	5357	CA	ASP	563	34.685	100.473	62.629	1.00	0.00	C
ATOM	5358	CB	ASP	563	36.209	100.664	62.548	1.00	0.00	C
ATOM	5359	CG	ASP	563	36.857	99.687	63.519	1.00	0.00	C
ATOM	5360	OD1	ASP	563	36.127	99.154	64.397	1.00	0.00	O
ATOM	5361	OD2	ASP	563	38.090	99.459	63.395	1.00	0.00	O
ATOM	5362	C	ASP	563	34.040	101.541	61.810	1.00	0.00	C
ATOM	5363	O	ASP	563	33.653	102.590	62.321	1.00	0.00	O
ATOM	5364	N	VAL	564	33.927	101.287	60.495	1.00	0.00	N
ATOM	5365	HN	VAL	564	34.292	100.408	60.128	1.00	0.00	H
ATOM	5366	CA	VAL	564	33.310	102.213	59.595	1.00	0.00	C
ATOM	5367	CB	VAL	564	34.297	103.228	59.085	1.00	0.00	C
ATOM	5368	CG1	VAL	564	35.524	102.482	58.529	1.00	0.00	C
ATOM	5369	CG2	VAL	564	33.604	104.131	58.050	1.00	0.00	C
ATOM	5370	C	VAL	564	32.789	101.430	58.427	1.00	0.00	C
ATOM	5371	O	VAL	564	33.250	100.320	58.161	1.00	0.00	O
ATOM	5372	N	ILE	565	31.791	101.993	57.712	1.00	0.00	N
ATOM	5373	HN	ILE	565	31.428	102.901	58.003	1.00	0.00	H
ATOM	5374	CA	ILE	565	31.222	101.357	56.555	1.00	0.00	C
ATOM	5375	CB	ILE	565	29.853	100.814	56.823	1.00	0.00	C
ATOM	5376	CG1	ILE	565	29.975	99.774	57.950	1.00	0.00	C
ATOM	5377	CG2	ILE	565	29.281	100.234	55.517	1.00	0.00	C
ATOM	5378	CD1	ILE	565	28.669	99.453	58.660	1.00	0.00	C
ATOM	5379	C	ILE	565	31.164	102.396	55.481	1.00	0.00	C
ATOM	5380	O	ILE	565	31.162	103.590	55.773	1.00	0.00	O
ATOM	5381	N	ALA	566	31.177	101.968	54.201	1.00	0.00	N
ATOM	5382	HN	ALA	566	31.218	100.969	54.001	1.00	0.00	H
ATOM	5383	CA	ALA	566	31.134	102.911	53.119	1.00	0.00	C
ATOM	5384	CB	ALA	566	32.488	103.083	52.415	1.00	0.00	C
ATOM	5385	C	ALA	566	30.149	102.410	52.101	1.00	0.00	C
ATOM	5386	O	ALA	566	29.997	101.206	51.890	1.00	0.00	O
ATOM	5387	N	GLY	567	29.462	103.342	51.409	1.00	0.00	N
ATOM	5388	HN	GLY	567	29.670	104.333	51.532	1.00	0.00	H
ATOM	5389	CA	GLY	567	28.437	102.924	50.499	1.00	0.00	C
ATOM	5390	C	GLY	567	28.965	102.859	49.112	1.00	0.00	C
ATOM	5391	O	GLY	567	29.435	103.845	48.554	1.00	0.00	O
ATOM	5392	N	PHE	568	28.844	101.661	48.519	1.00	0.00	N
ATOM	5393	HN	PHE	568	28.443	100.902	49.070	1.00	0.00	H
ATOM	5394	CA	PHE	568	29.233	101.364	47.176	1.00	0.00	C
ATOM	5395	CB	PHE	568	30.459	100.433	47.037	1.00	0.00	C
ATOM	5396	CG	PHE	568	31.731	101.140	47.385	1.00	0.00	C
ATOM	5397	CD1	PHE	568	32.298	102.032	46.503	1.00	0.00	C
ATOM	5398	CD2	PHE	568	32.383	100.886	48.572	1.00	0.00	C
ATOM	5399	CE1	PHE	568	33.474	102.678	46.809	1.00	0.00	C

ATOM	5400	CE2	PHE	568	33.560	101.528	48.885	1.00	0.00	C
ATOM	5401	CZ	PHE	568	34.107	102.429	48.004	1.00	0.00	C
ATOM	5402	C	PHE	568	28.086	100.615	46.581	1.00	0.00	C
ATOM	5403	O	PHE	568	27.133	100.254	47.271	1.00	0.00	O
ATOM	5404	N	ASP	569	28.138	100.417	45.254	1.00	0.00	N
ATOM	5405	HN	ASP	569	28.925	100.800	44.730	1.00	0.00	H
ATOM	5406	CA	ASP	569	27.130	99.689	44.548	1.00	0.00	C
ATOM	5407	CB	ASP	569	25.709	100.196	44.850	1.00	0.00	C
ATOM	5408	CG	ASP	569	24.707	99.160	44.361	1.00	0.00	C
ATOM	5409	OD1	ASP	569	24.849	97.970	44.750	1.00	0.00	O
ATOM	5410	OD2	ASP	569	23.793	99.544	43.583	1.00	0.00	O
ATOM	5411	C	ASP	569	27.391	99.996	43.115	1.00	0.00	C
ATOM	5412	O	ASP	569	26.692	100.802	42.505	1.00	0.00	O
ATOM	5413	N	ASP	570	28.339	99.275	42.505	1.00	0.00	N
ATOM	5414	HN	ASP	570	28.776	98.496	42.998	1.00	0.00	H
ATOM	5415	CA	ASP	570	28.747	99.586	41.165	1.00	0.00	C
ATOM	5416	CB	ASP	570	27.615	99.550	40.123	1.00	0.00	C
ATOM	5417	CG	ASP	570	28.207	99.484	38.714	1.00	0.00	C
ATOM	5418	OD1	ASP	570	29.401	99.845	38.536	1.00	0.00	O
ATOM	5419	OD2	ASP	570	27.461	99.058	37.792	1.00	0.00	O
ATOM	5420	C	ASP	570	29.398	100.933	41.047	1.00	0.00	C
ATOM	5421	O	ASP	570	28.931	101.779	40.291	1.00	0.00	O
ATOM	5422	N	GLY	571	30.503	101.167	41.789	1.00	0.00	N
ATOM	5423	HN	GLY	571	30.798	100.475	42.478	1.00	0.00	H
ATOM	5424	CA	GLY	571	31.271	102.371	41.627	1.00	0.00	C
ATOM	5425	C	GLY	571	30.550	103.611	42.096	1.00	0.00	C
ATOM	5426	O	GLY	571	30.314	104.507	41.290	1.00	0.00	O
ATOM	5427	N	VAL	572	30.129	103.699	43.382	1.00	0.00	N
ATOM	5428	HN	VAL	572	30.225	102.899	44.008	1.00	0.00	H
ATOM	5429	CA	VAL	572	29.542	104.934	43.864	1.00	0.00	C
ATOM	5430	CB	VAL	572	28.056	104.992	43.645	1.00	0.00	C
ATOM	5431	CG1	VAL	572	27.485	106.174	44.428	1.00	0.00	C
ATOM	5432	CG2	VAL	572	27.778	105.109	42.142	1.00	0.00	C
ATOM	5433	C	VAL	572	29.749	105.037	45.354	1.00	0.00	C
ATOM	5434	O	VAL	572	29.125	104.278	46.089	1.00	0.00	O
ATOM	5435	N	ILE	573	30.555	106.015	45.856	1.00	0.00	N
ATOM	5436	HN	ILE	573	30.992	106.686	45.224	1.00	0.00	H
ATOM	5437	CA	ILE	573	30.795	106.106	47.284	1.00	0.00	C
ATOM	5438	CB	ILE	573	32.233	106.328	47.657	1.00	0.00	C
ATOM	5439	CG1	ILE	573	32.359	106.415	49.188	1.00	0.00	C
ATOM	5440	CG2	ILE	573	32.764	107.557	46.901	1.00	0.00	C
ATOM	5441	CD1	ILE	573	31.920	105.147	49.915	1.00	0.00	C
ATOM	5442	C	ILE	573	29.983	107.208	47.915	1.00	0.00	C
ATOM	5443	O	ILE	573	30.298	108.385	47.760	1.00	0.00	O
ATOM	5444	N	VAL	574	28.814	106.872	48.509	1.00	0.00	N
ATOM	5445	HN	VAL	574	28.489	105.906	48.466	1.00	0.00	H
ATOM	5446	CA	VAL	574	28.021	107.858	49.202	1.00	0.00	C
ATOM	5447	CB	VAL	574	26.572	107.717	48.836	1.00	0.00	C
ATOM	5448	CG1	VAL	574	26.446	108.039	47.336	1.00	0.00	C
ATOM	5449	CG2	VAL	574	26.100	106.291	49.173	1.00	0.00	C
ATOM	5450	C	VAL	574	28.123	107.985	50.709	1.00	0.00	C
ATOM	5451	O	VAL	574	28.683	108.948	51.234	1.00	0.00	O
ATOM	5452	N	GLU	575	27.652	106.939	51.438	1.00	0.00	N
ATOM	5453	HN	GLU	575	27.481	106.052	50.965	1.00	0.00	H
ATOM	5454	CA	GLU	575	27.382	107.030	52.857	1.00	0.00	C
ATOM	5455	CB	GLU	575	26.064	106.329	53.226	1.00	0.00	C
ATOM	5456	CG	GLU	575	24.839	106.962	52.562	1.00	0.00	C
ATOM	5457	CD	GLU	575	23.704	105.947	52.606	1.00	0.00	C
ATOM	5458	OE1	GLU	575	23.982	104.766	52.943	1.00	0.00	O
ATOM	5459	OE2	GLU	575	22.546	106.336	52.298	1.00	0.00	O
ATOM	5460	C	GLU	575	28.456	106.362	53.646	1.00	0.00	C
ATOM	5461	O	GLU	575	28.581	105.139	53.616	1.00	0.00	O
ATOM	5462	N	LYS	576	29.217	107.163	54.422	1.00	0.00	N
ATOM	5463	HN	LYS	576	29.027	108.165	54.438	1.00	0.00	H
ATOM	5464	CA	LYS	576	30.286	106.643	55.225	1.00	0.00	C
ATOM	5465	CB	LYS	576	31.603	107.431	55.079	1.00	0.00	C
ATOM	5466	CG	LYS	576	32.815	106.741	55.711	1.00	0.00	C
ATOM	5467	CD	LYS	576	34.135	107.504	55.559	1.00	0.00	C
ATOM	5468	CE	LYS	576	34.296	108.231	54.224	1.00	0.00	C
ATOM	5469	NZ	LYS	576	33.778	109.612	54.343	1.00	0.00	N
ATOM	5470	HZ1	LYS	576	33.885	110.097	53.452	1.00	0.00	H
ATOM	5471	HZ2	LYS	576	34.213	110.121	55.113	1.00	0.00	H
ATOM	5472	HZ3	LYS	576	32.815	109.634	54.679	1.00	0.00	H
ATOM	5473	C	LYS	576	29.860	106.789	56.647	1.00	0.00	C

ATOM	5474	O	LYS	576	29.136	107.724	56.989	1.00	0.00	O
ATOM	5475	N	GLY	577	30.272	105.842	57.515	1.00	0.00	N
ATOM	5476	HN	GLY	577	30.808	105.034	57.199	1.00	0.00	H
ATOM	5477	CA	GLY	577	29.931	106.010	58.891	1.00	0.00	C
ATOM	5478	C	GLY	577	29.487	104.714	59.486	1.00	0.00	C
ATOM	5479	O	GLY	577	29.522	103.658	58.856	1.00	0.00	O
ATOM	5480	N	ASN	578	29.019	104.812	60.744	1.00	0.00	N
ATOM	5481	HN	ASN	578	28.941	105.745	61.149	1.00	0.00	H
ATOM	5482	CA	ASN	578	28.623	103.701	61.554	1.00	0.00	C
ATOM	5483	CB	ASN	578	28.434	104.087	63.036	1.00	0.00	C
ATOM	5484	CG	ASN	578	28.272	102.815	63.855	1.00	0.00	C
ATOM	5485	OD1	ASN	578	29.146	101.949	63.859	1.00	0.00	O
ATOM	5486	ND2	ASN	578	27.114	102.685	64.556	1.00	0.00	N
ATOM	5487	1HD2	ASN	578	27.005	101.832	65.105	1.00	0.00	H
ATOM	5488	2HD2	ASN	578	26.389	103.403	64.553	1.00	0.00	H
ATOM	5489	C	ASN	578	27.326	103.126	61.060	1.00	0.00	C
ATOM	5490	O	ASN	578	26.566	103.759	60.331	1.00	0.00	O
ATOM	5491	N	HIS	579	27.045	101.883	61.498	1.00	0.00	N
ATOM	5492	HN	HIS	579	27.678	101.478	62.188	1.00	0.00	H
ATOM	5493	CA	HIS	579	25.929	101.078	61.076	1.00	0.00	C
ATOM	5494	ND1	HIS	579	24.292	98.180	60.638	1.00	0.00	N
ATOM	5495	HD1	HIS	579	24.867	98.026	59.810	1.00	0.00	H
ATOM	5496	CG	HIS	579	24.602	98.974	61.718	1.00	0.00	C
ATOM	5497	CB	HIS	579	25.871	99.761	61.878	1.00	0.00	C
ATOM	5498	NE2	HIS	579	22.578	98.033	62.049	1.00	0.00	N
ATOM	5499	HE2	HIS	579	21.684	97.775	62.467	1.00	0.00	H
ATOM	5500	CD2	HIS	579	23.545	98.872	62.570	1.00	0.00	C
ATOM	5501	CE1	HIS	579	23.070	97.641	60.889	1.00	0.00	C
ATOM	5502	C	HIS	579	24.613	101.745	61.268	1.00	0.00	C
ATOM	5503	O	HIS	579	23.882	101.943	60.297	1.00	0.00	O
ATOM	5504	N	ASP	580	24.305	102.160	62.508	1.00	0.00	N
ATOM	5505	HN	ASP	580	25.000	102.085	63.251	1.00	0.00	H
ATOM	5506	CA	ASP	580	23.014	102.706	62.800	1.00	0.00	C
ATOM	5507	CB	ASP	580	22.852	103.136	64.270	1.00	0.00	C
ATOM	5508	CG	ASP	580	23.815	104.278	64.569	1.00	0.00	C
ATOM	5509	OD1	ASP	580	24.983	104.217	64.103	1.00	0.00	O
ATOM	5510	OD2	ASP	580	23.387	105.236	65.267	1.00	0.00	O
ATOM	5511	C	ASP	580	22.860	103.914	61.956	1.00	0.00	C
ATOM	5512	O	ASP	580	21.746	104.326	61.643	1.00	0.00	O
ATOM	5513	N	GLU	581	23.996	104.539	61.617	1.00	0.00	N
ATOM	5514	HN	GLU	581	24.888	104.156	61.931	1.00	0.00	H
ATOM	5515	CA	GLU	581	23.988	105.729	60.827	1.00	0.00	C
ATOM	5516	CB	GLU	581	25.411	106.279	60.671	1.00	0.00	C
ATOM	5517	CG	GLU	581	26.064	106.597	62.016	1.00	0.00	C
ATOM	5518	CD	GLU	581	27.463	107.125	61.743	1.00	0.00	C
ATOM	5519	OE1	GLU	581	27.740	107.509	60.575	1.00	0.00	O
ATOM	5520	OE2	GLU	581	28.275	107.149	62.705	1.00	0.00	O
ATOM	5521	C	GLU	581	23.468	105.423	59.450	1.00	0.00	C
ATOM	5522	O	GLU	581	22.605	106.131	58.937	1.00	0.00	O
ATOM	5523	N	LEU	582	23.988	104.362	58.804	1.00	0.00	N
ATOM	5524	HN	LEU	582	24.687	103.787	59.274	1.00	0.00	H
ATOM	5525	CA	LEU	582	23.581	104.020	57.465	1.00	0.00	C
ATOM	5526	CB	LEU	582	24.504	102.991	56.784	1.00	0.00	C
ATOM	5527	CG	LEU	582	25.883	103.555	56.383	1.00	0.00	C
ATOM	5528	CD1	LEU	582	26.689	104.011	57.606	1.00	0.00	C
ATOM	5529	CD2	LEU	582	26.657	102.565	55.497	1.00	0.00	C
ATOM	5530	C	LEU	582	22.179	103.482	57.418	1.00	0.00	C
ATOM	5531	O	LEU	582	21.481	103.657	56.419	1.00	0.00	O
ATOM	5532	N	MET	583	21.776	102.703	58.440	1.00	0.00	N
ATOM	5533	HN	MET	583	22.445	102.458	59.170	1.00	0.00	H
ATOM	5534	CA	MET	583	20.427	102.206	58.532	1.00	0.00	C
ATOM	5535	CB	MET	583	20.255	101.233	59.714	1.00	0.00	C
ATOM	5536	CG	MET	583	21.045	99.927	59.593	1.00	0.00	C
ATOM	5537	SD	MET	583	20.265	98.651	58.560	1.00	0.00	S
ATOM	5538	CE	MET	583	19.198	98.035	59.893	1.00	0.00	C
ATOM	5539	C	MET	583	19.521	103.367	58.818	1.00	0.00	C
ATOM	5540	O	MET	583	18.448	103.497	58.232	1.00	0.00	O
ATOM	5541	N	LYS	584	19.953	104.262	59.733	1.00	0.00	N
ATOM	5542	HN	LYS	584	20.876	104.146	60.151	1.00	0.00	H
ATOM	5543	CA	LYS	584	19.135	105.373	60.127	1.00	0.00	C
ATOM	5544	CB	LYS	584	19.697	106.206	61.297	1.00	0.00	C
ATOM	5545	CG	LYS	584	21.020	106.919	61.026	1.00	0.00	C
ATOM	5546	CD	LYS	584	21.364	107.994	62.060	1.00	0.00	C
ATOM	5547	CE	LYS	584	21.379	107.486	63.504	1.00	0.00	C

ATOM	5548	NZ	LYS	584	19.992	107.282	63.983	1.00	0.00	N
ATOM	5549	HZ1	LYS	584	20.002	106.944	64.945	1.00	0.00	H
ATOM	5550	HZ2	LYS	584	19.461	106.667	63.367	1.00	0.00	H
ATOM	5551	HZ3	LYS	584	19.424	108.123	63.879	1.00	0.00	H
ATOM	5552	C	LYS	584	18.948	106.240	58.930	1.00	0.00	C
ATOM	5553	O	LYS	584	17.923	106.906	58.779	1.00	0.00	O
ATOM	5554	N	GLU	585	19.974	106.257	58.061	1.00	0.00	N
ATOM	5555	HN	GLU	585	20.815	105.726	58.287	1.00	0.00	H
ATOM	5556	CA	GLU	585	19.933	106.989	56.833	1.00	0.00	C
ATOM	5557	CB	GLU	585	21.234	106.890	56.022	1.00	0.00	C
ATOM	5558	CG	GLU	585	22.381	107.706	56.606	1.00	0.00	C
ATOM	5559	CD	GLU	585	22.068	109.172	56.342	1.00	0.00	C
ATOM	5560	OE1	GLU	585	21.276	109.443	55.400	1.00	0.00	O
ATOM	5561	OE2	GLU	585	22.614	110.039	57.075	1.00	0.00	O
ATOM	5562	C	GLU	585	18.868	106.387	55.982	1.00	0.00	C
ATOM	5563	O	GLU	585	18.225	107.102	55.216	1.00	0.00	O
ATOM	5564	N	LYS	586	18.686	105.051	56.100	1.00	0.00	N
ATOM	5565	HN	LYS	586	19.239	104.562	56.804	1.00	0.00	H
ATOM	5566	CA	LYS	586	17.774	104.266	55.311	1.00	0.00	C
ATOM	5567	CB	LYS	586	16.270	104.512	55.552	1.00	0.00	C
ATOM	5568	CG	LYS	586	15.774	105.907	55.185	1.00	0.00	C
ATOM	5569	CD	LYS	586	14.279	105.957	54.884	1.00	0.00	C
ATOM	5570	CE	LYS	586	13.964	105.294	53.541	1.00	0.00	C
ATOM	5571	NZ	LYS	586	12.534	105.444	53.193	1.00	0.00	N
ATOM	5572	HZ1	LYS	586	12.324	105.002	52.298	1.00	0.00	H
ATOM	5573	HZ2	LYS	586	12.246	106.422	53.205	1.00	0.00	H
ATOM	5574	HZ3	LYS	586	11.929	105.094	53.935	1.00	0.00	H
ATOM	5575	C	LYS	586	18.111	104.562	53.898	1.00	0.00	C
ATOM	5576	O	LYS	586	17.248	104.676	53.029	1.00	0.00	O
ATOM	5577	N	GLY	587	19.427	104.673	53.653	1.00	0.00	N
ATOM	5578	HN	GLY	587	20.088	104.523	54.415	1.00	0.00	H
ATOM	5579	CA	GLY	587	19.924	104.994	52.362	1.00	0.00	C
ATOM	5580	C	GLY	587	20.320	103.724	51.695	1.00	0.00	C
ATOM	5581	O	GLY	587	19.580	102.740	51.677	1.00	0.00	O
ATOM	5582	N	ILE	588	21.522	103.741	51.099	1.00	0.00	N
ATOM	5583	HN	ILE	588	22.112	104.570	51.176	1.00	0.00	H
ATOM	5584	CA	ILE	588	21.983	102.615	50.361	1.00	0.00	C
ATOM	5585	CB	ILE	588	23.329	102.880	49.750	1.00	0.00	C
ATOM	5586	CG1	ILE	588	23.273	104.085	48.794	1.00	0.00	C
ATOM	5587	CG2	ILE	588	23.798	101.585	49.068	1.00	0.00	C
ATOM	5588	CD1	ILE	588	22.355	103.871	47.592	1.00	0.00	C
ATOM	5589	C	ILE	588	22.142	101.438	51.269	1.00	0.00	C
ATOM	5590	O	ILE	588	21.578	100.373	51.011	1.00	0.00	O
ATOM	5591	N	TYR	589	22.847	101.633	52.403	1.00	0.00	N
ATOM	5592	HN	TYR	589	23.156	102.572	52.653	1.00	0.00	H
ATOM	5593	CA	TYR	589	23.164	100.526	53.258	1.00	0.00	C
ATOM	5594	CB	TYR	589	23.923	100.978	54.519	1.00	0.00	C
ATOM	5595	CG	TYR	589	24.049	99.814	55.437	1.00	0.00	C
ATOM	5596	CD1	TYR	589	24.875	98.757	55.136	1.00	0.00	C
ATOM	5597	CD2	TYR	589	23.348	99.799	56.619	1.00	0.00	C
ATOM	5598	CE1	TYR	589	24.980	97.690	55.999	1.00	0.00	C
ATOM	5599	CE2	TYR	589	23.449	98.738	57.485	1.00	0.00	C
ATOM	5600	CZ	TYR	589	24.264	97.680	57.173	1.00	0.00	C
ATOM	5601	OH	TYR	589	24.361	96.593	58.064	1.00	0.00	O
ATOM	5602	HH	TYR	589	24.926	95.860	57.848	1.00	0.00	H
ATOM	5603	C	TYR	589	21.905	99.827	53.664	1.00	0.00	C
ATOM	5604	O	TYR	589	21.724	98.635	53.415	1.00	0.00	O
ATOM	5605	N	PHE	590	20.949	100.592	54.193	1.00	0.00	N
ATOM	5606	HN	PHE	590	21.103	101.598	54.255	1.00	0.00	H
ATOM	5607	CA	PHE	590	19.717	100.054	54.676	1.00	0.00	C
ATOM	5608	CB	PHE	590	18.793	101.155	55.225	1.00	0.00	C
ATOM	5609	CG	PHE	590	17.533	100.515	55.694	1.00	0.00	C
ATOM	5610	CD1	PHE	590	17.476	99.891	56.918	1.00	0.00	C
ATOM	5611	CD2	PHE	590	16.404	100.551	54.907	1.00	0.00	C
ATOM	5612	CE1	PHE	590	16.311	99.302	57.350	1.00	0.00	C
ATOM	5613	CE2	PHE	590	15.237	99.964	55.334	1.00	0.00	C
ATOM	5614	CZ	PHE	590	15.190	99.338	56.557	1.00	0.00	C
ATOM	5615	C	PHE	590	18.999	99.380	53.544	1.00	0.00	C
ATOM	5616	O	PHE	590	18.561	98.233	53.656	1.00	0.00	O
ATOM	5617	N	LYS	591	18.906	100.067	52.393	1.00	0.00	N
ATOM	5618	HN	LYS	591	19.404	100.951	52.288	1.00	0.00	H
ATOM	5619	CA	LYS	591	18.113	99.566	51.314	1.00	0.00	C
ATOM	5620	CB	LYS	591	18.152	100.456	50.064	1.00	0.00	C
ATOM	5621	CG	LYS	591	17.293	99.895	48.927	1.00	0.00	C

ATOM	5622	CD	LYS	591	17.170	100.822	47.718	1.00	0.00	C
ATOM	5623	CE	LYS	591	18.378	100.779	46.779	1.00	0.00	C
ATOM	5624	NZ	LYS	591	18.166	101.703	45.643	1.00	0.00	N
ATOM	5625	HZ1	LYS	591	18.971	101.674	45.017	1.00	0.00	H
ATOM	5626	HZ2	LYS	591	17.957	102.651	45.955	1.00	0.00	H
ATOM	5627	HZ3	LYS	591	17.292	101.512	45.152	1.00	0.00	H
ATOM	5628	C	LYS	591	18.634	98.245	50.882	1.00	0.00	C
ATOM	5629	O	LYS	591	17.907	97.256	50.783	1.00	0.00	O
ATOM	5630	N	LEU	592	19.947	98.189	50.650	1.00	0.00	N
ATOM	5631	HN	LEU	592	20.530	99.013	50.801	1.00	0.00	H
ATOM	5632	CA	LEU	592	20.530	96.976	50.192	1.00	0.00	C
ATOM	5633	CB	LEU	592	22.022	97.120	49.832	1.00	0.00	C
ATOM	5634	CG	LEU	592	22.260	97.857	48.492	1.00	0.00	C
ATOM	5635	CD1	LEU	592	21.718	97.038	47.308	1.00	0.00	C
ATOM	5636	CD2	LEU	592	21.699	99.287	48.499	1.00	0.00	C
ATOM	5637	C	LEU	592	20.347	95.933	51.237	1.00	0.00	C
ATOM	5638	O	LEU	592	20.184	94.755	50.914	1.00	0.00	O
ATOM	5639	N	VAL	593	20.339	96.354	52.518	1.00	0.00	N
ATOM	5640	HN	VAL	593	20.404	97.352	52.718	1.00	0.00	H
ATOM	5641	CA	VAL	593	20.241	95.422	53.604	1.00	0.00	C
ATOM	5642	CB	VAL	593	20.075	96.066	54.957	1.00	0.00	C
ATOM	5643	CG1	VAL	593	19.657	94.978	55.963	1.00	0.00	C
ATOM	5644	CG2	VAL	593	21.397	96.740	55.355	1.00	0.00	C
ATOM	5645	C	VAL	593	19.017	94.588	53.369	1.00	0.00	C
ATOM	5646	O	VAL	593	19.076	93.359	53.344	1.00	0.00	O
ATOM	5647	N	THR	594	17.883	95.252	53.104	1.00	0.00	N
ATOM	5648	HN	THR	594	17.917	96.265	52.991	1.00	0.00	H
ATOM	5649	CA	THR	594	16.623	94.579	52.975	1.00	0.00	C
ATOM	5650	CB	THR	594	15.476	95.542	52.882	1.00	0.00	C
ATOM	5651	OG1	THR	594	15.580	96.316	51.696	1.00	0.00	O
ATOM	5652	HG1	THR	594	15.559	95.747	50.935	1.00	0.00	H
ATOM	5653	CG2	THR	594	15.510	96.463	54.114	1.00	0.00	C
ATOM	5654	C	THR	594	16.582	93.716	51.741	1.00	0.00	C
ATOM	5655	O	THR	594	16.104	92.583	51.747	1.00	0.00	O
ATOM	5656	N	MET	595	17.151	94.245	50.656	1.00	0.00	N
ATOM	5657	HN	MET	595	17.653	95.120	50.809	1.00	0.00	H
ATOM	5658	CA	MET	595	17.158	93.759	49.303	1.00	0.00	C
ATOM	5659	CB	MET	595	17.724	94.849	48.361	1.00	0.00	C
ATOM	5660	CG	MET	595	17.454	94.702	46.858	1.00	0.00	C
ATOM	5661	SD	MET	595	18.578	93.609	45.938	1.00	0.00	S
ATOM	5662	CE	MET	595	20.086	94.472	46.464	1.00	0.00	C
ATOM	5663	C	MET	595	18.001	92.505	49.190	1.00	0.00	C
ATOM	5664	O	MET	595	18.060	91.869	48.140	1.00	0.00	O
ATOM	5665	N	GLN	596	18.619	92.080	50.301	1.00	0.00	N
ATOM	5666	HN	GLN	596	18.187	92.345	51.186	1.00	0.00	H
ATOM	5667	CA	GLN	596	19.821	91.293	50.391	1.00	0.00	C
ATOM	5668	CB	GLN	596	20.104	90.779	51.812	1.00	0.00	C
ATOM	5669	CG	GLN	596	21.494	90.147	51.907	1.00	0.00	C
ATOM	5670	CD	GLN	596	21.870	89.990	53.372	1.00	0.00	C
ATOM	5671	OE1	GLN	596	23.050	89.940	53.714	1.00	0.00	O
ATOM	5672	NE2	GLN	596	20.844	89.924	54.261	1.00	0.00	N
ATOM	5673	1HE2	GLN	596	21.096	89.819	55.244	1.00	0.00	H
ATOM	5674	2HE2	GLN	596	19.865	89.965	53.977	1.00	0.00	H
ATOM	5675	C	GLN	596	20.187	90.147	49.455	1.00	0.00	C
ATOM	5676	O	GLN	596	21.325	90.167	48.996	1.00	0.00	O
ATOM	5677	N	THR	597	19.398	89.124	49.082	1.00	0.00	N
ATOM	5678	HN	THR	597	18.396	89.068	49.264	1.00	0.00	H
ATOM	5679	CA	THR	597	20.196	88.074	48.360	1.00	0.00	C
ATOM	5680	CB	THR	597	20.666	86.999	49.296	1.00	0.00	C
ATOM	5681	OG1	THR	597	19.543	86.361	49.883	1.00	0.00	O
ATOM	5682	HG1	THR	597	19.840	85.681	50.475	1.00	0.00	H
ATOM	5683	CG2	THR	597	21.554	87.612	50.392	1.00	0.00	C
ATOM	5684	C	THR	597	19.499	87.261	47.107	1.00	0.00	C
ATOM	5685	O	THR	597	18.492	87.929	46.849	1.00	0.00	O
ATOM	5686	N	LEU	598	20.014	86.024	46.335	1.00	0.00	N
ATOM	5687	HN	LEU	598	21.019	86.043	46.509	1.00	0.00	H
ATOM	5688	CA	LEU	598	19.512	84.947	45.212	1.00	0.00	C
ATOM	5689	CB	LEU	598	18.743	85.666	44.073	1.00	0.00	C
ATOM	5690	CG	LEU	598	18.132	84.783	42.949	1.00	0.00	C
ATOM	5691	CD1	LEU	598	19.138	84.367	41.858	1.00	0.00	C
ATOM	5692	CD2	LEU	598	17.358	83.595	43.545	1.00	0.00	C
ATOM	5693	C	LEU	598	20.335	83.670	44.434	1.00	0.00	C
ATOM	5694	O	LEU	598	21.211	83.938	43.606	1.00	0.00	O
ATOM	5695	N	ASP	599	20.008	82.252	44.487	1.00	0.00	N

ATOM	5696	HN	ASP	599	19.221	82.022	45.094	1.00	0.00	H
ATOM	5697	CA	ASP	599	20.659	81.019	43.771	1.00	0.00	C
ATOM	5698	CB	ASP	599	21.768	80.372	44.621	1.00	0.00	C
ATOM	5699	CG	ASP	599	22.959	81.323	44.611	1.00	0.00	C
ATOM	5700	OD1	ASP	599	23.218	81.926	43.535	1.00	0.00	O
ATOM	5701	OD2	ASP	599	23.621	81.465	45.674	1.00	0.00	O
ATOM	5702	C	ASP	599	19.732	79.822	43.232	1.00	0.00	C
ATOM	5703	O	ASP	599	18.546	79.819	43.542	1.00	0.00	O
ATOM	5704	N	GLU	600	20.224	78.743	42.442	1.00	0.00	N
ATOM	5705	HN	GLU	600	21.235	78.651	42.345	1.00	0.00	H
ATOM	5706	CA	GLU	600	19.353	77.719	41.733	1.00	0.00	C
ATOM	5707	CB	GLU	600	18.715	78.389	40.509	1.00	0.00	C
ATOM	5708	CG	GLU	600	19.733	79.248	39.746	1.00	0.00	C
ATOM	5709	CD	GLU	600	19.764	80.629	40.393	1.00	0.00	C
ATOM	5710	OE1	GLU	600	18.719	81.321	40.278	1.00	0.00	O
ATOM	5711	OE2	GLU	600	20.799	81.012	41.005	1.00	0.00	O
ATOM	5712	C	GLU	600	19.908	76.344	41.250	1.00	0.00	C
ATOM	5713	O	GLU	600	20.918	75.838	41.724	1.00	0.00	O
ATOM	5714	N	SER	601	19.148	75.642	40.332	1.00	0.00	N
ATOM	5715	HN	SER	601	18.264	76.083	40.078	1.00	0.00	H
ATOM	5716	CA	SER	601	19.418	74.350	39.660	1.00	0.00	C
ATOM	5717	CB	SER	601	20.882	73.888	39.754	1.00	0.00	C
ATOM	5718	OG	SER	601	21.731	74.804	39.076	1.00	0.00	O
ATOM	5719	HG	SER	601	22.635	74.519	39.134	1.00	0.00	H
ATOM	5720	C	SER	601	18.566	73.310	40.318	1.00	0.00	C
ATOM	5721	O	SER	601	18.167	73.485	41.468	1.00	0.00	O
ATOM	5722	N	ILE	602	18.242	72.197	39.613	1.00	0.00	N
ATOM	5723	HN	ILE	602	18.577	72.044	38.662	1.00	0.00	H
ATOM	5724	CA	ILE	602	17.396	71.243	40.288	1.00	0.00	C
ATOM	5725	CB	ILE	602	15.950	71.524	40.007	1.00	0.00	C
ATOM	5726	CG1	ILE	602	15.592	72.932	40.503	1.00	0.00	C
ATOM	5727	CG2	ILE	602	15.090	70.423	40.635	1.00	0.00	C
ATOM	5728	CD1	ILE	602	14.235	73.422	40.004	1.00	0.00	C
ATOM	5729	C	ILE	602	17.676	69.801	39.928	1.00	0.00	C
ATOM	5730	O	ILE	602	17.677	69.398	38.764	1.00	0.00	O
ATOM	5731	N	PRO	603	17.908	69.016	40.955	1.00	0.00	N
ATOM	5732	CA	PRO	603	18.113	67.591	40.793	1.00	0.00	C
ATOM	5733	CD	PRO	603	18.669	69.540	42.079	1.00	0.00	C
ATOM	5734	CB	PRO	603	18.773	67.114	42.083	1.00	0.00	C
ATOM	5735	CG	PRO	603	19.507	68.362	42.601	1.00	0.00	C
ATOM	5736	C	PRO	603	16.905	66.769	40.414	1.00	0.00	C
ATOM	5737	O	PRO	603	17.093	65.730	39.780	1.00	0.00	O
ATOM	5738	N	PRO	604	15.702	67.144	40.754	1.00	0.00	N
ATOM	5739	CA	PRO	604	14.592	66.289	40.407	1.00	0.00	C
ATOM	5740	CD	PRO	604	15.482	67.781	42.043	1.00	0.00	C
ATOM	5741	CB	PRO	604	13.403	66.815	41.201	1.00	0.00	C
ATOM	5742	CG	PRO	604	14.065	67.364	42.480	1.00	0.00	C
ATOM	5743	C	PRO	604	14.379	66.155	38.936	1.00	0.00	C
ATOM	5744	O	PRO	604	14.567	67.124	38.204	1.00	0.00	O
ATOM	5745	N	VAL	605	13.949	64.955	38.499	1.00	0.00	N
ATOM	5746	HN	VAL	605	13.726	64.236	39.187	1.00	0.00	H
ATOM	5747	CA	VAL	605	13.792	64.646	37.105	1.00	0.00	C
ATOM	5748	CB	VAL	605	14.555	63.409	36.710	1.00	0.00	C
ATOM	5749	CG1	VAL	605	13.894	62.186	37.370	1.00	0.00	C
ATOM	5750	CG2	VAL	605	14.678	63.344	35.176	1.00	0.00	C
ATOM	5751	C	VAL	605	12.323	64.437	36.848	1.00	0.00	C
ATOM	5752	O	VAL	605	11.486	65.110	37.448	1.00	0.00	O
ATOM	5753	N	SER	606	11.958	63.586	35.863	1.00	0.00	N
ATOM	5754	HN	SER	606	12.661	63.112	35.296	1.00	0.00	H
ATOM	5755	CA	SER	606	10.557	63.364	35.632	1.00	0.00	C
ATOM	5756	CB	SER	606	9.925	64.576	34.925	1.00	0.00	C
ATOM	5757	OG	SER	606	8.538	64.380	34.714	1.00	0.00	O
ATOM	5758	HG	SER	606	8.148	65.128	34.278	1.00	0.00	H
ATOM	5759	C	SER	606	10.417	62.159	34.738	1.00	0.00	C
ATOM	5760	O	SER	606	10.055	62.279	33.566	1.00	0.00	O
ATOM	5761	N	PHE	607	10.603	60.939	35.285	1.00	0.00	N
ATOM	5762	HN	PHE	607	10.730	60.817	36.290	1.00	0.00	H
ATOM	5763	CA	PHE	607	10.613	59.819	34.380	1.00	0.00	C
ATOM	5764	CB	PHE	607	11.125	58.494	34.999	1.00	0.00	C
ATOM	5765	CG	PHE	607	10.094	57.911	35.905	1.00	0.00	C
ATOM	5766	CD1	PHE	607	9.963	58.318	37.211	1.00	0.00	C
ATOM	5767	CD2	PHE	607	9.228	56.958	35.415	1.00	0.00	C
ATOM	5768	CE1	PHE	607	8.993	57.764	38.015	1.00	0.00	C
ATOM	5769	CE2	PHE	607	8.258	56.402	36.214	1.00	0.00	C

ATOM	5770	CZ	PHE	607	8.140	56.805	37.521	1.00	0.00	C
ATOM	5771	C	PHE	607	9.241	59.601	33.809	1.00	0.00	C
ATOM	5772	O	PHE	607	8.265	59.366	34.521	1.00	0.00	O
ATOM	5773	N	TRP	608	9.130	59.773	32.474	1.00	0.00	N
ATOM	5774	HN	TRP	608	9.942	60.154	31.989	1.00	0.00	H
ATOM	5775	CA	TRP	608	7.973	59.469	31.669	1.00	0.00	C
ATOM	5776	CB	TRP	608	7.508	58.010	31.832	1.00	0.00	C
ATOM	5777	CG	TRP	608	8.594	56.979	31.617	1.00	0.00	C
ATOM	5778	CD2	TRP	608	9.639	57.087	30.637	1.00	0.00	C
ATOM	5779	CD1	TRP	608	8.851	55.843	32.328	1.00	0.00	C
ATOM	5780	NE1	TRP	608	9.978	55.226	31.841	1.00	0.00	N
ATOM	5781	HE1	TRP	608	10.377	54.354	32.188	1.00	0.00	H
ATOM	5782	CE2	TRP	608	10.478	55.984	30.804	1.00	0.00	C
ATOM	5783	CE3	TRP	608	9.886	58.033	29.686	1.00	0.00	C
ATOM	5784	CZ2	TRP	608	11.579	55.809	30.016	1.00	0.00	C
ATOM	5785	CZ3	TRP	608	10.993	57.848	28.888	1.00	0.00	C
ATOM	5786	CH2	TRP	608	11.823	56.757	29.049	1.00	0.00	C
ATOM	5787	C	TRP	608	6.830	60.352	32.083	1.00	0.00	C
ATOM	5788	O	TRP	608	5.763	60.319	31.473	1.00	0.00	O
ATOM	5789	N	ARG	609	7.030	61.183	33.123	1.00	0.00	N
ATOM	5790	HN	ARG	609	7.959	61.235	33.541	1.00	0.00	H
ATOM	5791	CA	ARG	609	5.984	61.996	33.662	1.00	0.00	C
ATOM	5792	CB	ARG	609	6.393	62.644	34.988	1.00	0.00	C
ATOM	5793	CG	ARG	609	5.368	63.609	35.572	1.00	0.00	C
ATOM	5794	CD	ARG	609	5.846	64.224	36.887	1.00	0.00	C
ATOM	5795	NE	ARG	609	4.850	65.249	37.294	1.00	0.00	N
ATOM	5796	HE	ARG	609	4.277	65.715	36.591	1.00	0.00	H
ATOM	5797	CZ	ARG	609	4.707	65.563	38.614	1.00	0.00	C
ATOM	5798	NH1	ARG	609	5.458	64.917	39.553	1.00	0.00	N
ATOM	5799	1HH1	ARG	609	5.351	65.152	40.540	1.00	0.00	H
ATOM	5800	2HH1	ARG	609	6.130	64.204	39.271	1.00	0.00	H
ATOM	5801	NH2	ARG	609	3.808	66.517	38.991	1.00	0.00	N
ATOM	5802	1HH2	ARG	609	3.701	66.752	39.978	1.00	0.00	H
ATOM	5803	2HH2	ARG	609	3.247	67.000	38.289	1.00	0.00	H
ATOM	5804	C	ARG	609	5.632	63.059	32.687	1.00	0.00	C
ATOM	5805	O	ARG	609	4.461	63.319	32.429	1.00	0.00	O
ATOM	5806	N	ILE	610	6.660	63.677	32.092	1.00	0.00	N
ATOM	5807	HN	ILE	610	7.609	63.392	32.333	1.00	0.00	H
ATOM	5808	CA	ILE	610	6.480	64.716	31.136	1.00	0.00	C
ATOM	5809	CB	ILE	610	7.763	65.334	30.643	1.00	0.00	C
ATOM	5810	CG1	ILE	610	8.646	64.313	29.907	1.00	0.00	C
ATOM	5811	CG2	ILE	610	8.459	65.984	31.851	1.00	0.00	C
ATOM	5812	CD1	ILE	610	9.201	63.213	30.809	1.00	0.00	C
ATOM	5813	C	ILE	610	5.765	64.121	29.981	1.00	0.00	C
ATOM	5814	O	ILE	610	5.246	64.867	29.163	1.00	0.00	O
ATOM	5815	N	MET	611	5.893	62.793	29.771	1.00	0.00	N
ATOM	5816	HN	MET	611	6.544	62.253	30.341	1.00	0.00	H
ATOM	5817	CA	MET	611	5.121	62.131	28.752	1.00	0.00	C
ATOM	5818	CB	MET	611	5.531	60.663	28.542	1.00	0.00	C
ATOM	5819	CG	MET	611	4.789	59.987	27.386	1.00	0.00	C
ATOM	5820	SD	MET	611	5.215	58.239	27.124	1.00	0.00	S
ATOM	5821	CE	MET	611	4.278	57.643	28.561	1.00	0.00	C
ATOM	5822	C	MET	611	3.680	62.125	29.175	1.00	0.00	C
ATOM	5823	O	MET	611	2.781	62.427	28.391	1.00	0.00	O
ATOM	5824	N	LYS	612	3.425	61.793	30.457	1.00	0.00	N
ATOM	5825	HN	LYS	612	4.197	61.612	31.099	1.00	0.00	H
ATOM	5826	CA	LYS	612	2.068	61.694	30.920	1.00	0.00	C
ATOM	5827	CB	LYS	612	1.982	61.329	32.415	1.00	0.00	C
ATOM	5828	CG	LYS	612	2.703	60.039	32.822	1.00	0.00	C
ATOM	5829	CD	LYS	612	2.193	58.772	32.134	1.00	0.00	C
ATOM	5830	CE	LYS	612	2.731	57.481	32.761	1.00	0.00	C
ATOM	5831	NZ	LYS	612	4.211	57.494	32.784	1.00	0.00	N
ATOM	5832	HZ1	LYS	612	4.569	56.635	33.201	1.00	0.00	H
ATOM	5833	HZ2	LYS	612	4.576	58.324	33.252	1.00	0.00	H
ATOM	5834	HZ3	LYS	612	4.603	57.658	31.857	1.00	0.00	H
ATOM	5835	C	LYS	612	1.473	63.055	30.802	1.00	0.00	C
ATOM	5836	O	LYS	612	0.436	63.265	30.174	1.00	0.00	O
ATOM	5837	N	LEU	613	2.187	64.030	31.382	1.00	0.00	N
ATOM	5838	HN	LEU	613	3.063	63.772	31.837	1.00	0.00	H
ATOM	5839	CA	LEU	613	1.804	65.402	31.405	1.00	0.00	C
ATOM	5840	CB	LEU	613	2.753	66.291	32.231	1.00	0.00	C
ATOM	5841	CG	LEU	613	2.720	65.989	33.742	1.00	0.00	C
ATOM	5842	CD1	LEU	613	3.613	66.964	34.527	1.00	0.00	C
ATOM	5843	CD2	LEU	613	1.278	65.948	34.272	1.00	0.00	C

ATOM	5844	C	LEU	613	1.836	65.872	29.999	1.00	0.00	C
ATOM	5845	O	LEU	613	1.110	66.796	29.645	1.00	0.00	O
ATOM	5846	N	ASN	614	2.684	65.228	29.170	1.00	0.00	N
ATOM	5847	HN	ASN	614	3.189	64.415	29.522	1.00	0.00	H
ATOM	5848	CA	ASN	614	2.904	65.642	27.811	1.00	0.00	C
ATOM	5849	CB	ASN	614	3.662	64.592	26.970	1.00	0.00	C
ATOM	5850	CG	ASN	614	4.428	65.264	25.842	1.00	0.00	C
ATOM	5851	OD1	ASN	614	4.420	66.487	25.712	1.00	0.00	O
ATOM	5852	ND2	ASN	614	5.126	64.439	25.014	1.00	0.00	N
ATOM	5853	1HD2	ASN	614	5.133	63.425	25.122	1.00	0.00	H
ATOM	5854	2HD2	ASN	614	5.640	64.890	24.257	1.00	0.00	H
ATOM	5855	C	ASN	614	1.555	65.711	27.193	1.00	0.00	C
ATOM	5856	O	ASN	614	1.102	66.770	26.771	1.00	0.00	O
ATOM	5857	N	LEU	615	0.826	64.594	27.276	1.00	0.00	N
ATOM	5858	HN	LEU	615	1.224	63.795	27.770	1.00	0.00	H
ATOM	5859	CA	LEU	615	-0.481	64.457	26.711	1.00	0.00	C
ATOM	5860	CB	LEU	615	-1.050	63.049	27.007	1.00	0.00	C
ATOM	5861	CG	LEU	615	-2.426	62.676	26.408	1.00	0.00	C
ATOM	5862	CD1	LEU	615	-2.774	61.220	26.757	1.00	0.00	C
ATOM	5863	CD2	LEU	615	-3.555	63.622	26.842	1.00	0.00	C
ATOM	5864	C	LEU	615	-1.345	65.492	27.362	1.00	0.00	C
ATOM	5865	O	LEU	615	-2.254	66.028	26.734	1.00	0.00	O
ATOM	5866	N	THR	616	-1.101	65.802	28.649	1.00	0.00	N
ATOM	5867	HN	THR	616	-0.353	65.336	29.162	1.00	0.00	H
ATOM	5868	CA	THR	616	-1.913	66.802	29.287	1.00	0.00	C
ATOM	5869	CB	THR	616	-1.474	67.092	30.694	1.00	0.00	C
ATOM	5870	OG1	THR	616	-1.529	65.912	31.482	1.00	0.00	O
ATOM	5871	HG1	THR	616	-1.251	66.095	32.372	1.00	0.00	H
ATOM	5872	CG2	THR	616	-2.400	68.167	31.285	1.00	0.00	C
ATOM	5873	C	THR	616	-1.741	68.065	28.500	1.00	0.00	C
ATOM	5874	O	THR	616	-2.696	68.764	28.172	1.00	0.00	O
ATOM	5875	N	GLU	617	-0.481	68.343	28.145	1.00	0.00	N
ATOM	5876	HN	GLU	617	0.232	67.692	28.474	1.00	0.00	H
ATOM	5877	CA	GLU	617	-0.014	69.444	27.359	1.00	0.00	C
ATOM	5878	CB	GLU	617	1.517	69.580	27.358	1.00	0.00	C
ATOM	5879	CG	GLU	617	2.095	70.298	28.582	1.00	0.00	C
ATOM	5880	CD	GLU	617	2.079	69.354	29.772	1.00	0.00	C
ATOM	5881	OE1	GLU	617	0.998	69.214	30.404	1.00	0.00	O
ATOM	5882	OE2	GLU	617	3.150	68.757	30.064	1.00	0.00	O
ATOM	5883	C	GLU	617	-0.455	69.233	25.950	1.00	0.00	C
ATOM	5884	O	GLU	617	0.093	69.848	25.043	1.00	0.00	O
ATOM	5885	N	TRP	618	-1.312	68.226	25.711	1.00	0.00	N
ATOM	5886	HN	TRP	618	-1.721	67.717	26.495	1.00	0.00	H
ATOM	5887	CA	TRP	618	-1.660	67.856	24.371	1.00	0.00	C
ATOM	5888	CB	TRP	618	-0.978	66.499	24.121	1.00	0.00	C
ATOM	5889	CG	TRP	618	-1.121	65.800	22.799	1.00	0.00	C
ATOM	5890	CD2	TRP	618	-1.972	64.665	22.580	1.00	0.00	C
ATOM	5891	CD1	TRP	618	-0.448	66.013	21.635	1.00	0.00	C
ATOM	5892	NE1	TRP	618	-0.828	65.079	20.699	1.00	0.00	N
ATOM	5893	HE1	TRP	618	-0.476	65.016	19.744	1.00	0.00	H
ATOM	5894	CE2	TRP	618	-1.764	64.242	21.269	1.00	0.00	C
ATOM	5895	CE3	TRP	618	-2.844	64.020	23.409	1.00	0.00	C
ATOM	5896	CZ2	TRP	618	-2.431	63.162	20.762	1.00	0.00	C
ATOM	5897	CZ3	TRP	618	-3.523	62.938	22.892	1.00	0.00	C
ATOM	5898	CH2	TRP	618	-3.320	62.517	21.594	1.00	0.00	C
ATOM	5899	C	TRP	618	-3.155	67.702	24.187	1.00	0.00	C
ATOM	5900	O	TRP	618	-3.810	67.021	24.976	1.00	0.00	O
ATOM	5901	N	PRO	619	-3.739	68.403	23.229	1.00	0.00	N
ATOM	5902	CA	PRO	619	-5.113	68.202	22.818	1.00	0.00	C
ATOM	5903	CD	PRO	619	-3.183	69.639	22.710	1.00	0.00	C
ATOM	5904	CB	PRO	619	-5.478	69.413	21.958	1.00	0.00	C
ATOM	5905	CG	PRO	619	-4.119	70.012	21.547	1.00	0.00	C
ATOM	5906	C	PRO	619	-5.324	66.882	22.128	1.00	0.00	C
ATOM	5907	O	PRO	619	-5.966	66.003	22.701	1.00	0.00	O
ATOM	5908	N	TYR	620	-4.830	66.752	20.868	1.00	0.00	N
ATOM	5909	HN	TYR	620	-4.489	67.589	20.395	1.00	0.00	H
ATOM	5910	CA	TYR	620	-4.762	65.494	20.164	1.00	0.00	C
ATOM	5911	CB	TYR	620	-6.070	64.679	20.098	1.00	0.00	C
ATOM	5912	CG	TYR	620	-7.068	65.301	19.194	1.00	0.00	C
ATOM	5913	CD1	TYR	620	-6.959	65.135	17.834	1.00	0.00	C
ATOM	5914	CD2	TYR	620	-8.124	66.017	19.706	1.00	0.00	C
ATOM	5915	CE1	TYR	620	-7.886	65.693	16.989	1.00	0.00	C
ATOM	5916	CE2	TYR	620	-9.055	66.577	18.864	1.00	0.00	C
ATOM	5917	CZ	TYR	620	-8.935	66.415	17.504	1.00	0.00	C



ATOM	5918	OH	TYR	620	-9.890	66.987	16.637	1.00	0.00	O
ATOM	5919	HH	TYR	620	-9.807	66.875	15.697	1.00	0.00	H
ATOM	5920	C	TYR	620	-4.198	65.719	18.781	1.00	0.00	C
ATOM	5921	O	TYR	620	-4.575	66.656	18.078	1.00	0.00	O
ATOM	5922	N	PHE	621	-3.134	64.959	18.462	1.00	0.00	N
ATOM	5923	HN	PHE	621	-2.827	64.325	19.200	1.00	0.00	H
ATOM	5924	CA	PHE	621	-2.361	64.894	17.255	1.00	0.00	C
ATOM	5925	CB	PHE	621	-0.908	65.346	17.450	1.00	0.00	C
ATOM	5926	CG	PHE	621	-1.044	66.803	17.756	1.00	0.00	C
ATOM	5927	CD1	PHE	621	-1.441	67.676	16.776	1.00	0.00	C
ATOM	5928	CD2	PHE	621	-0.842	67.305	19.019	1.00	0.00	C
ATOM	5929	CE1	PHE	621	-1.593	69.019	17.018	1.00	0.00	C
ATOM	5930	CE2	PHE	621	-0.989	68.649	19.277	1.00	0.00	C
ATOM	5931	CZ	PHE	621	-1.361	69.513	18.277	1.00	0.00	C
ATOM	5932	C	PHE	621	-2.422	63.673	16.400	1.00	0.00	C
ATOM	5933	O	PHE	621	-1.526	63.550	15.571	1.00	0.00	O
ATOM	5934	N	VAL	622	-3.314	62.691	16.638	1.00	0.00	N
ATOM	5935	HN	VAL	622	-4.068	62.868	17.302	1.00	0.00	H
ATOM	5936	CA	VAL	622	-3.250	61.398	15.995	1.00	0.00	C
ATOM	5937	CB	VAL	622	-4.506	60.597	16.180	1.00	0.00	C
ATOM	5938	CG1	VAL	622	-5.671	61.352	15.518	1.00	0.00	C
ATOM	5939	CG2	VAL	622	-4.278	59.189	15.604	1.00	0.00	C
ATOM	5940	C	VAL	622	-3.030	61.549	14.521	1.00	0.00	C
ATOM	5941	O	VAL	622	-2.363	60.725	13.898	1.00	0.00	O
ATOM	5942	N	VAL	623	-3.563	62.620	13.922	1.00	0.00	N
ATOM	5943	HN	VAL	623	-4.122	63.279	14.463	1.00	0.00	H
ATOM	5944	CA	VAL	623	-3.351	62.844	12.525	1.00	0.00	C
ATOM	5945	CB	VAL	623	-3.894	64.177	12.117	1.00	0.00	C
ATOM	5946	CG1	VAL	623	-3.387	65.227	13.123	1.00	0.00	C
ATOM	5947	CG2	VAL	623	-3.439	64.459	10.676	1.00	0.00	C
ATOM	5948	C	VAL	623	-1.875	62.853	12.235	1.00	0.00	C
ATOM	5949	O	VAL	623	-1.416	62.152	11.334	1.00	0.00	O
ATOM	5950	N	GLY	624	-1.072	63.614	13.002	1.00	0.00	N
ATOM	5951	HN	GLY	624	-1.456	64.135	13.790	1.00	0.00	H
ATOM	5952	CA	GLY	624	0.327	63.685	12.702	1.00	0.00	C
ATOM	5953	C	GLY	624	0.920	62.316	12.789	1.00	0.00	C
ATOM	5954	O	GLY	624	1.534	61.853	11.832	1.00	0.00	O
ATOM	5955	N	VAL	625	0.684	61.591	13.899	1.00	0.00	N
ATOM	5956	HN	VAL	625	0.079	61.957	14.634	1.00	0.00	H
ATOM	5957	CA	VAL	625	1.292	60.297	14.037	1.00	0.00	C
ATOM	5958	CB	VAL	625	0.958	59.588	15.319	1.00	0.00	C
ATOM	5959	CG1	VAL	625	1.474	60.436	16.493	1.00	0.00	C
ATOM	5960	CG2	VAL	625	-0.548	59.293	15.365	1.00	0.00	C
ATOM	5961	C	VAL	625	0.804	59.454	12.904	1.00	0.00	C
ATOM	5962	O	VAL	625	1.502	58.550	12.450	1.00	0.00	O
ATOM	5963	N	PHE	626	-0.419	59.738	12.418	1.00	0.00	N
ATOM	5964	HN	PHE	626	-0.948	60.516	12.812	1.00	0.00	H
ATOM	5965	CA	PHE	626	-0.988	58.963	11.354	1.00	0.00	C
ATOM	5966	CB	PHE	626	-2.386	59.468	10.953	1.00	0.00	C
ATOM	5967	CG	PHE	626	-2.922	58.571	9.889	1.00	0.00	C
ATOM	5968	CD1	PHE	626	-2.632	58.797	8.562	1.00	0.00	C
ATOM	5969	CD2	PHE	626	-3.718	57.499	10.221	1.00	0.00	C
ATOM	5970	CE1	PHE	626	-3.127	57.968	7.582	1.00	0.00	C
ATOM	5971	CE2	PHE	626	-4.216	56.667	9.246	1.00	0.00	C
ATOM	5972	CZ	PHE	626	-3.921	56.900	7.924	1.00	0.00	C
ATOM	5973	C	PHE	626	-0.107	59.038	10.139	1.00	0.00	C
ATOM	5974	O	PHE	626	0.347	58.013	9.633	1.00	0.00	O
ATOM	5975	N	CYS	627	0.213	60.256	9.667	1.00	0.00	N
ATOM	5976	HN	CYS	627	-0.118	61.092	10.149	1.00	0.00	H
ATOM	5977	CA	CYS	627	1.019	60.382	8.487	1.00	0.00	C
ATOM	5978	CB	CYS	627	1.144	61.834	7.984	1.00	0.00	C
ATOM	5979	SG	CYS	627	1.817	62.989	9.215	1.00	0.00	S
ATOM	5980	C	CYS	627	2.373	59.835	8.798	1.00	0.00	C
ATOM	5981	O	CYS	627	3.078	59.377	7.899	1.00	0.00	O
ATOM	5982	N	ALA	628	2.765	59.860	10.089	1.00	0.00	N
ATOM	5983	HN	ALA	628	2.135	60.221	10.806	1.00	0.00	H
ATOM	5984	CA	ALA	628	4.068	59.379	10.455	1.00	0.00	C
ATOM	5985	CB	ALA	628	4.293	59.374	11.977	1.00	0.00	C
ATOM	5986	C	ALA	628	4.144	57.975	9.980	1.00	0.00	C
ATOM	5987	O	ALA	628	5.108	57.578	9.328	1.00	0.00	O
ATOM	5988	N	ILE	629	3.071	57.210	10.212	1.00	0.00	N
ATOM	5989	HN	ILE	629	2.249	57.601	10.671	1.00	0.00	H
ATOM	5990	CA	ILE	629	3.089	55.843	9.811	1.00	0.00	C
ATOM	5991	CB	ILE	629	1.798	55.158	10.133	1.00	0.00	C

ATOM	5992	CG1	ILE	629	1.409	55.447	11.594	1.00	0.00	C
ATOM	5993	CG2	ILE	629	1.959	53.663	9.810	1.00	0.00	C
ATOM	5994	CD1	ILE	629	2.505	55.129	12.607	1.00	0.00	C
ATOM	5995	C	ILE	629	3.245	55.807	8.316	1.00	0.00	C
ATOM	5996	O	ILE	629	4.062	55.054	7.789	1.00	0.00	O
ATOM	5997	N	ILE	630	2.488	56.654	7.584	1.00	0.00	N
ATOM	5998	HN	ILE	630	1.904	57.349	8.049	1.00	0.00	H
ATOM	5999	CA	ILE	630	2.507	56.574	6.147	1.00	0.00	C
ATOM	6000	CB	ILE	630	1.457	57.419	5.461	1.00	0.00	C
ATOM	6001	CG1	ILE	630	1.702	58.933	5.574	1.00	0.00	C
ATOM	6002	CG2	ILE	630	0.103	56.986	6.045	1.00	0.00	C
ATOM	6003	CD1	ILE	630	2.737	59.469	4.582	1.00	0.00	C
ATOM	6004	C	ILE	630	3.858	56.921	5.610	1.00	0.00	C
ATOM	6005	O	ILE	630	4.346	56.248	4.701	1.00	0.00	O
ATOM	6006	N	ASN	631	4.521	57.961	6.159	1.00	0.00	N
ATOM	6007	HN	ASN	631	4.149	58.474	6.958	1.00	0.00	H
ATOM	6008	CA	ASN	631	5.774	58.306	5.560	1.00	0.00	C
ATOM	6009	CB	ASN	631	6.396	59.662	5.977	1.00	0.00	C
ATOM	6010	CG	ASN	631	6.923	59.703	7.395	1.00	0.00	C
ATOM	6011	OD1	ASN	631	7.016	58.687	8.078	1.00	0.00	O
ATOM	6012	ND2	ASN	631	7.302	60.928	7.848	1.00	0.00	N
ATOM	6013	1HD2	ASN	631	7.657	60.956	8.804	1.00	0.00	H
ATOM	6014	2HD2	ASN	631	7.225	61.772	7.281	1.00	0.00	H
ATOM	6015	C	ASN	631	6.709	57.163	5.731	1.00	0.00	C
ATOM	6016	O	ASN	631	7.549	56.901	4.867	1.00	0.00	O
ATOM	6017	N	GLY	632	6.557	56.421	6.841	1.00	0.00	N
ATOM	6018	HN	GLY	632	5.846	56.647	7.536	1.00	0.00	H
ATOM	6019	CA	GLY	632	7.424	55.311	7.009	1.00	0.00	C
ATOM	6020	C	GLY	632	7.215	54.370	5.868	1.00	0.00	C
ATOM	6021	O	GLY	632	8.169	53.975	5.207	1.00	0.00	O
ATOM	6022	N	GLY	633	5.952	54.047	5.548	1.00	0.00	N
ATOM	6023	HN	GLY	633	5.179	54.477	6.057	1.00	0.00	H
ATOM	6024	CA	GLY	633	5.672	53.104	4.499	1.00	0.00	C
ATOM	6025	C	GLY	633	6.234	53.634	3.222	1.00	0.00	C
ATOM	6026	O	GLY	633	6.709	52.884	2.369	1.00	0.00	O
ATOM	6027	N	LEU	634	6.215	54.965	3.073	1.00	0.00	N
ATOM	6028	HN	LEU	634	5.896	55.549	3.846	1.00	0.00	H
ATOM	6029	CA	LEU	634	6.632	55.585	1.855	1.00	0.00	C
ATOM	6030	CB	LEU	634	6.605	57.117	1.997	1.00	0.00	C
ATOM	6031	CG	LEU	634	6.993	57.901	0.734	1.00	0.00	C
ATOM	6032	CD1	LEU	634	6.019	57.618	-0.422	1.00	0.00	C
ATOM	6033	CD2	LEU	634	7.111	59.401	1.053	1.00	0.00	C
ATOM	6034	C	LEU	634	8.040	55.140	1.560	1.00	0.00	C
ATOM	6035	O	LEU	634	8.377	54.866	0.406	1.00	0.00	O
ATOM	6036	N	GLN	635	8.898	55.051	2.600	1.00	0.00	N
ATOM	6037	HN	GLN	635	8.564	55.258	3.541	1.00	0.00	H
ATOM	6038	CA	GLN	635	10.274	54.671	2.409	1.00	0.00	C
ATOM	6039	CB	GLN	635	11.102	54.821	3.703	1.00	0.00	C
ATOM	6040	CG	GLN	635	12.607	54.608	3.527	1.00	0.00	C
ATOM	6041	CD	GLN	635	13.224	55.943	3.140	1.00	0.00	C
ATOM	6042	OE1	GLN	635	13.326	56.855	3.960	1.00	0.00	O
ATOM	6043	NE2	GLN	635	13.646	56.064	1.853	1.00	0.00	N
ATOM	6044	1HE2	GLN	635	13.561	55.308	1.173	1.00	0.00	H
ATOM	6045	2HE2	GLN	635	14.060	56.959	1.593	1.00	0.00	H
ATOM	6046	C	GLN	635	10.392	53.257	1.896	1.00	0.00	C
ATOM	6047	O	GLN	635	10.990	53.069	0.835	1.00	0.00	O
ATOM	6048	N	PRO	636	9.823	52.242	2.512	1.00	0.00	N
ATOM	6049	CA	PRO	636	9.999	50.953	1.911	1.00	0.00	C
ATOM	6050	CD	PRO	636	9.823	52.108	3.959	1.00	0.00	C
ATOM	6051	CB	PRO	636	9.465	49.948	2.917	1.00	0.00	C
ATOM	6052	CG	PRO	636	9.815	50.602	4.262	1.00	0.00	C
ATOM	6053	C	PRO	636	9.369	50.875	0.558	1.00	0.00	C
ATOM	6054	O	PRO	636	9.799	50.069	-0.266	1.00	0.00	O
ATOM	6055	N	ALA	637	8.363	51.720	0.298	1.00	0.00	N
ATOM	6056	HN	ALA	637	8.071	52.394	1.005	1.00	0.00	H
ATOM	6057	CA	ALA	637	7.695	51.681	-0.970	1.00	0.00	C
ATOM	6058	CB	ALA	637	6.577	52.731	-1.080	1.00	0.00	C
ATOM	6059	C	ALA	637	8.703	51.965	-2.039	1.00	0.00	C
ATOM	6060	O	ALA	637	8.719	51.323	-3.088	1.00	0.00	O
ATOM	6061	N	PHE	638	9.605	52.924	-1.778	1.00	0.00	N
ATOM	6062	HN	PHE	638	9.589	53.403	-0.877	1.00	0.00	H
ATOM	6063	CA	PHE	638	10.589	53.280	-2.753	1.00	0.00	C
ATOM	6064	CB	PHE	638	11.512	54.427	-2.311	1.00	0.00	C
ATOM	6065	CG	PHE	638	12.573	54.517	-3.352	1.00	0.00	C

ATOM	6066	CD1	PHE	638	12.351	55.171	-4.543	1.00	0.00	C
ATOM	6067	CD2	PHE	638	13.797	53.932	-3.127	1.00	0.00	C
ATOM	6068	CE1	PHE	638	13.343	55.239	-5.493	1.00	0.00	C
ATOM	6069	CE2	PHE	638	14.791	53.997	-4.073	1.00	0.00	C
ATOM	6070	CZ	PHE	638	14.564	54.652	-5.260	1.00	0.00	C
ATOM	6071	C	PHE	638	11.444	52.106	-3.019	1.00	0.00	C
ATOM	6072	O	PHE	638	11.854	51.867	-4.156	1.00	0.00	O
ATOM	6073	N	ALA	639	11.722	51.335	-1.960	1.00	0.00	N
ATOM	6074	HN	ALA	639	11.320	51.543	-1.046	1.00	0.00	H
ATOM	6075	CA	ALA	639	12.588	50.221	-2.135	1.00	0.00	C
ATOM	6076	CB	ALA	639	12.728	49.425	-0.841	1.00	0.00	C
ATOM	6077	C	ALA	639	12.006	49.324	-3.208	1.00	0.00	C
ATOM	6078	O	ALA	639	12.734	48.866	-4.088	1.00	0.00	O
ATOM	6079	N	ILE	640	10.679	49.068	-3.182	1.00	0.00	N
ATOM	6080	HN	ILE	640	10.106	49.490	-2.451	1.00	0.00	H
ATOM	6081	CA	ILE	640	10.049	48.210	-4.164	1.00	0.00	C
ATOM	6082	CB	ILE	640	8.684	47.717	-3.760	1.00	0.00	C
ATOM	6083	CG1	ILE	640	8.267	46.533	-4.649	1.00	0.00	C
ATOM	6084	CG2	ILE	640	7.694	48.889	-3.812	1.00	0.00	C
ATOM	6085	CD1	ILE	640	7.041	45.783	-4.129	1.00	0.00	C
ATOM	6086	C	ILE	640	9.918	48.814	-5.535	1.00	0.00	C
ATOM	6087	O	ILE	640	10.189	48.155	-6.539	1.00	0.00	O
ATOM	6088	N	ILE	641	9.498	50.089	-5.632	1.00	0.00	N
ATOM	6089	HN	ILE	641	9.360	50.652	-4.793	1.00	0.00	H
ATOM	6090	CA	ILE	641	9.246	50.648	-6.931	1.00	0.00	C
ATOM	6091	CB	ILE	641	8.674	52.041	-6.855	1.00	0.00	C
ATOM	6092	CG1	ILE	641	8.431	52.631	-8.258	1.00	0.00	C
ATOM	6093	CG2	ILE	641	9.544	52.869	-5.902	1.00	0.00	C
ATOM	6094	CD1	ILE	641	7.376	51.885	-9.069	1.00	0.00	C
ATOM	6095	C	ILE	641	10.511	50.602	-7.733	1.00	0.00	C
ATOM	6096	O	ILE	641	10.485	50.296	-8.926	1.00	0.00	O
ATOM	6097	N	PHE	642	11.654	50.910	-7.094	1.00	0.00	N
ATOM	6098	HN	PHE	642	11.610	51.192	-6.115	1.00	0.00	H
ATOM	6099	CA	PHE	642	12.935	50.855	-7.744	1.00	0.00	C
ATOM	6100	CB	PHE	642	14.046	51.390	-6.822	1.00	0.00	C
ATOM	6101	CG	PHE	642	15.376	51.015	-7.374	1.00	0.00	C
ATOM	6102	CD1	PHE	642	16.018	51.811	-8.294	1.00	0.00	C
ATOM	6103	CD2	PHE	642	15.982	49.850	-6.962	1.00	0.00	C
ATOM	6104	CE1	PHE	642	17.248	51.445	-8.789	1.00	0.00	C
ATOM	6105	CE2	PHE	642	17.211	49.481	-7.453	1.00	0.00	C
ATOM	6106	CZ	PHE	642	17.847	50.282	-8.370	1.00	0.00	C
ATOM	6107	C	PHE	642	13.276	49.454	-8.121	1.00	0.00	C
ATOM	6108	O	PHE	642	13.603	49.173	-9.275	1.00	0.00	O
ATOM	6109	N	SER	643	13.146	48.527	-7.158	1.00	0.00	N
ATOM	6110	HN	SER	643	12.776	48.794	-6.246	1.00	0.00	H
ATOM	6111	CA	SER	643	13.522	47.170	-7.401	1.00	0.00	C
ATOM	6112	CB	SER	643	13.252	46.263	-6.187	1.00	0.00	C
ATOM	6113	OG	SER	643	11.874	46.294	-5.845	1.00	0.00	O
ATOM	6114	HG	SER	643	11.707	45.734	-5.096	1.00	0.00	H
ATOM	6115	C	SER	643	12.705	46.686	-8.553	1.00	0.00	C
ATOM	6116	O	SER	643	13.151	45.846	-9.332	1.00	0.00	O
ATOM	6117	N	LYS	644	11.476	47.213	-8.688	1.00	0.00	N
ATOM	6118	HN	LYS	644	11.148	47.913	-8.023	1.00	0.00	H
ATOM	6119	CA	LYS	644	10.624	46.796	-9.763	1.00	0.00	C
ATOM	6120	CB	LYS	644	9.211	47.397	-9.663	1.00	0.00	C
ATOM	6121	CG	LYS	644	8.271	46.966	-10.794	1.00	0.00	C
ATOM	6122	CD	LYS	644	6.801	47.308	-10.532	1.00	0.00	C
ATOM	6123	CE	LYS	644	5.857	46.934	-11.678	1.00	0.00	C
ATOM	6124	NZ	LYS	644	5.397	45.537	-11.521	1.00	0.00	N
ATOM	6125	HZ1	LYS	644	4.768	45.288	-12.284	1.00	0.00	H
ATOM	6126	HZ2	LYS	644	4.972	45.375	-10.608	1.00	0.00	H
ATOM	6127	HZ3	LYS	644	6.177	44.885	-11.440	1.00	0.00	H
ATOM	6128	C	LYS	644	11.195	47.219	-11.080	1.00	0.00	C
ATOM	6129	O	LYS	644	11.300	46.403	-11.992	1.00	0.00	O
ATOM	6130	N	ILE	645	11.625	48.493	-11.206	1.00	0.00	N
ATOM	6131	HN	ILE	645	11.657	49.106	-10.391	1.00	0.00	H
ATOM	6132	CA	ILE	645	12.037	48.981	-12.493	1.00	0.00	C
ATOM	6133	CB	ILE	645	12.519	50.396	-12.459	1.00	0.00	C
ATOM	6134	CG1	ILE	645	11.440	51.317	-11.891	1.00	0.00	C
ATOM	6135	CG2	ILE	645	12.961	50.779	-13.881	1.00	0.00	C
ATOM	6136	CD1	ILE	645	11.941	52.737	-11.668	1.00	0.00	C
ATOM	6137	C	ILE	645	13.197	48.194	-12.971	1.00	0.00	C
ATOM	6138	O	ILE	645	13.160	47.634	-14.065	1.00	0.00	O
ATOM	6139	N	ILE	646	14.235	48.075	-12.129	1.00	0.00	N

ATOM	6140	HN	ILE	646	14.187	48.469	-11.189	1.00	0.00	H
ATOM	6141	CA	ILE	646	15.406	47.390	-12.566	1.00	0.00	C
ATOM	6142	CB	ILE	646	16.499	47.340	-11.532	1.00	0.00	C
ATOM	6143	CG1	ILE	646	17.772	46.726	-12.138	1.00	0.00	C
ATOM	6144	CG2	ILE	646	15.982	46.619	-10.276	1.00	0.00	C
ATOM	6145	CD1	ILE	646	19.010	46.900	-11.260	1.00	0.00	C
ATOM	6146	C	ILE	646	14.995	46.005	-12.897	1.00	0.00	C
ATOM	6147	O	ILE	646	15.321	45.526	-13.973	1.00	0.00	O
ATOM	6148	N	GLY	647	14.186	45.354	-12.045	1.00	0.00	N
ATOM	6149	HN	GLY	647	13.822	45.816	-11.211	1.00	0.00	H
ATOM	6150	CA	GLY	647	13.849	43.993	-12.340	1.00	0.00	C
ATOM	6151	C	GLY	647	13.131	43.905	-13.654	1.00	0.00	C
ATOM	6152	O	GLY	647	13.512	43.146	-14.542	1.00	0.00	O
ATOM	6153	N	VAL	648	12.108	44.747	-13.837	1.00	0.00	N
ATOM	6154	HN	VAL	648	11.920	45.442	-13.115	1.00	0.00	H
ATOM	6155	CA	VAL	648	11.261	44.724	-14.996	1.00	0.00	C
ATOM	6156	CB	VAL	648	10.075	45.650	-14.873	1.00	0.00	C
ATOM	6157	CG1	VAL	648	10.564	47.104	-14.783	1.00	0.00	C
ATOM	6158	CG2	VAL	648	9.123	45.391	-16.052	1.00	0.00	C
ATOM	6159	C	VAL	648	12.053	45.110	-16.211	1.00	0.00	C
ATOM	6160	O	VAL	648	11.534	45.067	-17.323	1.00	0.00	O
ATOM	6161	N	PHE	649	13.212	45.757	-16.015	1.00	0.00	N
ATOM	6162	HN	PHE	649	13.484	46.007	-15.064	1.00	0.00	H
ATOM	6163	CA	PHE	649	14.082	46.109	-17.104	1.00	0.00	C
ATOM	6164	CB	PHE	649	14.723	47.490	-16.882	1.00	0.00	C
ATOM	6165	CG	PHE	649	15.263	47.966	-18.185	1.00	0.00	C
ATOM	6166	CD1	PHE	649	14.461	48.702	-19.028	1.00	0.00	C
ATOM	6167	CD2	PHE	649	16.553	47.682	-18.571	1.00	0.00	C
ATOM	6168	CE1	PHE	649	14.938	49.151	-20.236	1.00	0.00	C
ATOM	6169	CE2	PHE	649	17.035	48.128	-19.778	1.00	0.00	C
ATOM	6170	CZ	PHE	649	16.227	48.863	-20.613	1.00	0.00	C
ATOM	6171	C	PHE	649	15.182	45.115	-17.357	1.00	0.00	C
ATOM	6172	O	PHE	649	15.747	45.064	-18.449	1.00	0.00	O
ATOM	6173	N	THR	650	15.618	44.426	-16.286	1.00	0.00	N
ATOM	6174	HN	THR	650	15.135	44.587	-15.402	1.00	0.00	H
ATOM	6175	CA	THR	650	16.702	43.484	-16.276	1.00	0.00	C
ATOM	6176	CB	THR	650	17.166	43.108	-14.898	1.00	0.00	C
ATOM	6177	OG1	THR	650	16.087	42.582	-14.141	1.00	0.00	O
ATOM	6178	HG1	THR	650	15.710	41.820	-14.565	1.00	0.00	H
ATOM	6179	CG2	THR	650	17.777	44.341	-14.211	1.00	0.00	C
ATOM	6180	C	THR	650	16.292	42.227	-16.958	1.00	0.00	C
ATOM	6181	O	THR	650	17.134	41.521	-17.515	1.00	0.00	O
ATOM	6182	N	ARG	651	15.002	41.857	-16.837	1.00	0.00	N
ATOM	6183	HN	ARG	651	14.354	42.382	-16.250	1.00	0.00	H
ATOM	6184	CA	ARG	651	14.575	40.697	-17.564	1.00	0.00	C
ATOM	6185	CB	ARG	651	14.800	39.383	-16.809	1.00	0.00	C
ATOM	6186	CG	ARG	651	16.258	39.098	-16.445	1.00	0.00	C
ATOM	6187	CD	ARG	651	16.740	39.875	-15.220	1.00	0.00	C
ATOM	6188	NE	ARG	651	15.689	39.733	-14.174	1.00	0.00	N
ATOM	6189	HE	ARG	651	15.020	40.488	-14.020	1.00	0.00	H
ATOM	6190	CZ	ARG	651	15.617	38.597	-13.421	1.00	0.00	C
ATOM	6191	NH1	ARG	651	16.451	37.549	-13.683	1.00	0.00	N
ATOM	6192	1HH1	ARG	651	17.135	37.617	-14.436	1.00	0.00	H
ATOM	6193	2HH1	ARG	651	16.397	36.700	-13.120	1.00	0.00	H
ATOM	6194	NH2	ARG	651	14.701	38.506	-12.413	1.00	0.00	N
ATOM	6195	1HH2	ARG	651	14.078	39.289	-12.217	1.00	0.00	H
ATOM	6196	2HH2	ARG	651	14.647	37.657	-11.850	1.00	0.00	H
ATOM	6197	C	ARG	651	13.104	40.816	-17.834	1.00	0.00	C
ATOM	6198	O	ARG	651	12.308	40.887	-16.897	1.00	0.00	O
ATOM	6199	N	ILE	652	12.702	40.873	-19.128	1.00	0.00	N
ATOM	6200	HN	ILE	652	13.394	40.854	-19.877	1.00	0.00	H
ATOM	6201	CA	ILE	652	11.300	40.960	-19.446	1.00	0.00	C
ATOM	6202	CB	ILE	652	10.635	42.166	-18.839	1.00	0.00	C
ATOM	6203	CG1	ILE	652	9.104	42.006	-18.826	1.00	0.00	C
ATOM	6204	CG2	ILE	652	11.138	43.413	-19.585	1.00	0.00	C
ATOM	6205	CD1	ILE	652	8.386	43.038	-17.959	1.00	0.00	C
ATOM	6206	C	ILE	652	11.135	41.035	-20.947	1.00	0.00	C
ATOM	6207	O	ILE	652	12.101	40.887	-21.694	1.00	0.00	O
ATOM	6208	N	ASP	653	9.881	41.250	-21.422	1.00	0.00	N
ATOM	6209	HN	ASP	653	9.118	41.337	-20.751	1.00	0.00	H
ATOM	6210	CA	ASP	653	9.572	41.362	-22.826	1.00	0.00	C
ATOM	6211	CB	ASP	653	8.069	41.244	-23.145	1.00	0.00	C
ATOM	6212	CG	ASP	653	7.901	40.956	-24.635	1.00	0.00	C
ATOM	6213	OD1	ASP	653	8.936	40.786	-25.332	1.00	0.00	O

ATOM	6214	OD2	ASP	653	6.730	40.895	-25.095	1.00	0.00	O
ATOM	6215	C	ASP	653	10.049	42.686	-23.348	1.00	0.00	C
ATOM	6216	O	ASP	653	9.934	43.715	-22.685	1.00	0.00	O
ATOM	6217	N	ASP	654	10.577	42.683	-24.590	1.00	0.00	N
ATOM	6218	HN	ASP	654	10.561	41.817	-25.128	1.00	0.00	H
ATOM	6219	CA	ASP	654	11.160	43.853	-25.182	1.00	0.00	C
ATOM	6220	CB	ASP	654	11.857	43.572	-26.529	1.00	0.00	C
ATOM	6221	CG	ASP	654	13.149	42.817	-26.249	1.00	0.00	C
ATOM	6222	OD1	ASP	654	13.793	43.114	-25.207	1.00	0.00	O
ATOM	6223	OD2	ASP	654	13.516	41.940	-27.077	1.00	0.00	O
ATOM	6224	C	ASP	654	10.156	44.944	-25.390	1.00	0.00	C
ATOM	6225	O	ASP	654	10.441	46.091	-25.051	1.00	0.00	O
ATOM	6226	N	PRO	655	8.996	44.676	-25.918	1.00	0.00	N
ATOM	6227	CA	PRO	655	8.099	45.780	-26.113	1.00	0.00	C
ATOM	6228	CD	PRO	655	8.868	43.687	-26.977	1.00	0.00	C
ATOM	6229	CB	PRO	655	7.084	45.325	-27.158	1.00	0.00	C
ATOM	6230	CG	PRO	655	7.861	44.279	-27.976	1.00	0.00	C
ATOM	6231	C	PRO	655	7.490	46.208	-24.821	1.00	0.00	C
ATOM	6232	O	PRO	655	7.362	45.389	-23.913	1.00	0.00	O
ATOM	6233	N	GLU	656	7.109	47.495	-24.737	1.00	0.00	N
ATOM	6234	HN	GLU	656	7.300	48.099	-25.536	1.00	0.00	H
ATOM	6235	CA	GLU	656	6.454	48.077	-23.605	1.00	0.00	C
ATOM	6236	CB	GLU	656	5.219	47.268	-23.192	1.00	0.00	C
ATOM	6237	CG	GLU	656	4.152	47.280	-24.288	1.00	0.00	C
ATOM	6238	CD	GLU	656	2.969	46.460	-23.807	1.00	0.00	C
ATOM	6239	OE1	GLU	656	2.472	46.746	-22.686	1.00	0.00	O
ATOM	6240	OE2	GLU	656	2.548	45.535	-24.553	1.00	0.00	O
ATOM	6241	C	GLU	656	7.395	48.193	-22.446	1.00	0.00	C
ATOM	6242	O	GLU	656	6.998	48.597	-21.353	1.00	0.00	O
ATOM	6243	N	THR	657	8.691	47.919	-22.676	1.00	0.00	N
ATOM	6244	HN	THR	657	8.980	47.569	-23.590	1.00	0.00	H
ATOM	6245	CA	THR	657	9.668	48.114	-21.649	1.00	0.00	C
ATOM	6246	CB	THR	657	11.051	47.693	-22.051	1.00	0.00	C
ATOM	6247	OG1	THR	657	11.448	48.384	-23.226	1.00	0.00	O
ATOM	6248	HG1	THR	657	11.431	49.323	-23.086	1.00	0.00	H
ATOM	6249	CG2	THR	657	11.079	46.175	-22.278	1.00	0.00	C
ATOM	6250	C	THR	657	9.695	49.584	-21.424	1.00	0.00	C
ATOM	6251	O	THR	657	10.001	50.059	-20.333	1.00	0.00	O
ATOM	6252	N	LYS	658	9.418	50.343	-22.499	1.00	0.00	N
ATOM	6253	HN	LYS	658	9.234	49.884	-23.391	1.00	0.00	H
ATOM	6254	CA	LYS	658	9.372	51.771	-22.434	1.00	0.00	C
ATOM	6255	CB	LYS	658	9.063	52.398	-23.804	1.00	0.00	C
ATOM	6256	CG	LYS	658	8.857	53.913	-23.761	1.00	0.00	C
ATOM	6257	CD	LYS	658	8.902	54.576	-25.139	1.00	0.00	C
ATOM	6258	CE	LYS	658	8.378	56.013	-25.137	1.00	0.00	C
ATOM	6259	NZ	LYS	658	8.968	56.765	-24.007	1.00	0.00	N
ATOM	6260	HZ1	LYS	658	8.619	57.723	-24.006	1.00	0.00	H
ATOM	6261	HZ2	LYS	658	9.987	56.730	-24.015	1.00	0.00	H
ATOM	6262	HZ3	LYS	658	8.810	56.299	-23.114	1.00	0.00	H
ATOM	6263	C	LYS	658	8.274	52.174	-21.506	1.00	0.00	C
ATOM	6264	O	LYS	658	8.472	53.018	-20.637	1.00	0.00	O
ATOM	6265	N	ARG	659	7.081	51.576	-21.672	1.00	0.00	N
ATOM	6266	HN	ARG	659	6.974	50.865	-22.395	1.00	0.00	H
ATOM	6267	CA	ARG	659	5.957	51.919	-20.852	1.00	0.00	C
ATOM	6268	CB	ARG	659	4.647	51.279	-21.334	1.00	0.00	C
ATOM	6269	CG	ARG	659	3.416	51.851	-20.634	1.00	0.00	C
ATOM	6270	CD	ARG	659	2.108	51.226	-21.109	1.00	0.00	C
ATOM	6271	NE	ARG	659	0.997	52.040	-20.543	1.00	0.00	N
ATOM	6272	HE	ARG	659	1.161	52.649	-19.741	1.00	0.00	H
ATOM	6273	CZ	ARG	659	-0.242	51.963	-21.107	1.00	0.00	C
ATOM	6274	NH1	ARG	659	-0.449	51.129	-22.167	1.00	0.00	N
ATOM	6275	1HH1	ARG	659	0.321	50.570	-22.535	1.00	0.00	H
ATOM	6276	2HH1	ARG	659	-1.376	51.071	-22.589	1.00	0.00	H
ATOM	6277	NH2	ARG	659	-1.272	52.711	-20.614	1.00	0.00	N
ATOM	6278	1HH2	ARG	659	-1.117	53.334	-19.822	1.00	0.00	H
ATOM	6279	2HH2	ARG	659	-2.199	52.653	-21.036	1.00	0.00	H
ATOM	6280	C	ARG	659	6.212	51.452	-19.460	1.00	0.00	C
ATOM	6281	O	ARG	659	5.886	52.140	-18.496	1.00	0.00	O
ATOM	6282	N	GLN	660	6.799	50.250	-19.315	1.00	0.00	N
ATOM	6283	HN	GLN	660	7.066	49.705	-20.135	1.00	0.00	H
ATOM	6284	CA	GLN	660	7.045	49.744	-18.001	1.00	0.00	C
ATOM	6285	CB	GLN	660	7.671	48.341	-18.030	1.00	0.00	C
ATOM	6286	CG	GLN	660	6.763	47.300	-18.691	1.00	0.00	C
ATOM	6287	CD	GLN	660	5.528	47.136	-17.818	1.00	0.00	C

ATOM	6288	OE1	GLN	660	5.606	47.216	-16.593	1.00	0.00	O
ATOM	6289	NE2	GLN	660	4.353	46.904	-18.463	1.00	0.00	N
ATOM	6290	1HE2	GLN	660	3.525	46.794	-17.878	1.00	0.00	H
ATOM	6291	2HE2	GLN	660	4.288	46.838	-19.479	1.00	0.00	H
ATOM	6292	C	GLN	660	8.014	50.676	-17.360	1.00	0.00	C
ATOM	6293	O	GLN	660	7.841	51.087	-16.214	1.00	0.00	O
ATOM	6294	N	ASN	661	9.060	51.059	-18.111	1.00	0.00	N
ATOM	6295	HN	ASN	661	9.152	50.739	-19.075	1.00	0.00	H
ATOM	6296	CA	ASN	661	10.039	51.920	-17.536	1.00	0.00	C
ATOM	6297	CB	ASN	661	11.191	52.202	-18.516	1.00	0.00	C
ATOM	6298	CG	ASN	661	12.455	52.482	-17.714	1.00	0.00	C
ATOM	6299	OD1	ASN	661	12.460	53.290	-16.788	1.00	0.00	O
ATOM	6300	ND2	ASN	661	13.564	51.783	-18.080	1.00	0.00	N
ATOM	6301	1HD2	ASN	661	14.411	51.971	-17.543	1.00	0.00	H
ATOM	6302	2HD2	ASN	661	13.560	51.112	-18.849	1.00	0.00	H
ATOM	6303	C	ASN	661	9.358	53.202	-17.187	1.00	0.00	C
ATOM	6304	O	ASN	661	9.166	53.491	-16.011	1.00	0.00	O
ATOM	6305	N	SER	662	8.805	53.896	-18.203	1.00	0.00	N
ATOM	6306	HN	SER	662	8.797	53.467	-19.128	1.00	0.00	H
ATOM	6307	CA	SER	662	8.226	55.205	-18.059	1.00	0.00	C
ATOM	6308	CB	SER	662	7.473	55.653	-19.323	1.00	0.00	C
ATOM	6309	OG	SER	662	6.923	56.948	-19.134	1.00	0.00	O
ATOM	6310	HG	SER	662	6.458	57.225	-19.915	1.00	0.00	H
ATOM	6311	C	SER	662	7.237	55.163	-16.941	1.00	0.00	C
ATOM	6312	O	SER	662	7.149	56.099	-16.149	1.00	0.00	O
ATOM	6313	N	ASN	663	6.481	54.058	-16.833	1.00	0.00	N
ATOM	6314	HN	ASN	663	6.596	53.297	-17.502	1.00	0.00	H
ATOM	6315	CA	ASN	663	5.515	53.943	-15.784	1.00	0.00	C
ATOM	6316	CB	ASN	663	4.747	52.611	-15.888	1.00	0.00	C
ATOM	6317	CG	ASN	663	3.819	52.443	-14.694	1.00	0.00	C
ATOM	6318	OD1	ASN	663	4.268	52.250	-13.565	1.00	0.00	O
ATOM	6319	ND2	ASN	663	2.484	52.498	-14.949	1.00	0.00	N
ATOM	6320	1HD2	ASN	663	2.112	52.658	-15.885	1.00	0.00	H
ATOM	6321	2HD2	ASN	663	1.862	52.385	-14.149	1.00	0.00	H
ATOM	6322	C	ASN	663	6.203	53.974	-14.457	1.00	0.00	C
ATOM	6323	O	ASN	663	6.044	54.918	-13.686	1.00	0.00	O
ATOM	6324	N	LEU	664	7.090	52.996	-14.208	1.00	0.00	N
ATOM	6325	HN	LEU	664	7.324	52.332	-14.946	1.00	0.00	H
ATOM	6326	CA	LEU	664	7.713	52.870	-12.924	1.00	0.00	C
ATOM	6327	CB	LEU	664	8.704	51.697	-12.887	1.00	0.00	C
ATOM	6328	CG	LEU	664	8.062	50.297	-12.783	1.00	0.00	C
ATOM	6329	CD1	LEU	664	7.547	50.036	-11.365	1.00	0.00	C
ATOM	6330	CD2	LEU	664	6.960	50.075	-13.825	1.00	0.00	C
ATOM	6331	C	LEU	664	8.453	54.135	-12.639	1.00	0.00	C
ATOM	6332	O	LEU	664	8.497	54.595	-11.499	1.00	0.00	O
ATOM	6333	N	PHE	665	9.051	54.738	-13.678	1.00	0.00	N
ATOM	6334	HN	PHE	665	8.988	54.317	-14.605	1.00	0.00	H
ATOM	6335	CA	PHE	665	9.775	55.961	-13.510	1.00	0.00	C
ATOM	6336	CB	PHE	665	10.328	56.401	-14.882	1.00	0.00	C
ATOM	6337	CG	PHE	665	10.099	57.841	-15.180	1.00	0.00	C
ATOM	6338	CD1	PHE	665	10.952	58.830	-14.753	1.00	0.00	C
ATOM	6339	CD2	PHE	665	8.996	58.186	-15.927	1.00	0.00	C
ATOM	6340	CE1	PHE	665	10.691	60.143	-15.074	1.00	0.00	C
ATOM	6341	CE2	PHE	665	8.731	59.493	-16.252	1.00	0.00	C
ATOM	6342	CZ	PHE	665	9.586	60.475	-15.822	1.00	0.00	C
ATOM	6343	C	PHE	665	8.880	56.996	-12.893	1.00	0.00	C
ATOM	6344	O	PHE	665	9.131	57.441	-11.775	1.00	0.00	O
ATOM	6345	N	SER	666	7.753	57.334	-13.539	1.00	0.00	N
ATOM	6346	HN	SER	666	7.502	56.867	-14.410	1.00	0.00	H
ATOM	6347	CA	SER	666	6.902	58.357	-12.998	1.00	0.00	C
ATOM	6348	CB	SER	666	5.678	58.668	-13.877	1.00	0.00	C
ATOM	6349	OG	SER	666	4.893	59.686	-13.272	1.00	0.00	O
ATOM	6350	HG	SER	666	4.137	59.878	-13.815	1.00	0.00	H
ATOM	6351	C	SER	666	6.390	57.897	-11.671	1.00	0.00	C
ATOM	6352	O	SER	666	6.283	58.688	-10.736	1.00	0.00	O
ATOM	6353	N	LEU	667	6.101	56.588	-11.534	1.00	0.00	N
ATOM	6354	HN	LEU	667	6.258	55.945	-12.310	1.00	0.00	H
ATOM	6355	CA	LEU	667	5.571	56.101	-10.292	1.00	0.00	C
ATOM	6356	CB	LEU	667	5.310	54.585	-10.242	1.00	0.00	C
ATOM	6357	CG	LEU	667	3.930	54.183	-10.781	1.00	0.00	C
ATOM	6358	CD1	LEU	667	2.819	54.733	-9.870	1.00	0.00	C
ATOM	6359	CD2	LEU	667	3.742	54.597	-12.244	1.00	0.00	C
ATOM	6360	C	LEU	667	6.530	56.413	-9.205	1.00	0.00	C
ATOM	6361	O	LEU	667	6.128	56.831	-8.121	1.00	0.00	O

ATOM	6362	N	LEU	668	7.833	56.241	-9.471	1.00	0.00	N
ATOM	6363	HN	LEU	668	8.131	55.910	-10.389	1.00	0.00	H
ATOM	6364	CA	LEU	668	8.802	56.525	-8.458	1.00	0.00	C
ATOM	6365	CB	LEU	668	10.238	56.464	-8.998	1.00	0.00	C
ATOM	6366	CG	LEU	668	10.772	55.072	-9.350	1.00	0.00	C
ATOM	6367	CD1	LEU	668	12.117	55.191	-10.056	1.00	0.00	C
ATOM	6368	CD2	LEU	668	10.939	54.213	-8.099	1.00	0.00	C
ATOM	6369	C	LEU	668	8.628	57.957	-8.066	1.00	0.00	C
ATOM	6370	O	LEU	668	8.582	58.286	-6.882	1.00	0.00	O
ATOM	6371	N	PHE	669	8.541	58.853	-9.067	1.00	0.00	N
ATOM	6372	HN	PHE	669	8.534	58.537	-10.037	1.00	0.00	H
ATOM	6373	CA	PHE	669	8.458	60.251	-8.767	1.00	0.00	C
ATOM	6374	CB	PHE	669	8.578	61.139	-10.014	1.00	0.00	C
ATOM	6375	CG	PHE	669	8.201	62.514	-9.590	1.00	0.00	C
ATOM	6376	CD1	PHE	669	9.084	63.300	-8.889	1.00	0.00	C
ATOM	6377	CD2	PHE	669	6.948	63.006	-9.870	1.00	0.00	C
ATOM	6378	CE1	PHE	669	8.729	64.567	-8.493	1.00	0.00	C
ATOM	6379	CE2	PHE	669	6.589	64.273	-9.477	1.00	0.00	C
ATOM	6380	CZ	PHE	669	7.480	65.058	-8.788	1.00	0.00	C
ATOM	6381	C	PHE	669	7.190	60.623	-8.077	1.00	0.00	C
ATOM	6382	O	PHE	669	7.204	61.082	-6.939	1.00	0.00	O
ATOM	6383	N	LEU	670	6.049	60.333	-8.710	1.00	0.00	N
ATOM	6384	HN	LEU	670	6.086	59.768	-9.559	1.00	0.00	H
ATOM	6385	CA	LEU	670	4.778	60.788	-8.237	1.00	0.00	C
ATOM	6386	CB	LEU	670	3.664	60.194	-9.124	1.00	0.00	C
ATOM	6387	CG	LEU	670	2.222	60.613	-8.797	1.00	0.00	C
ATOM	6388	CD1	LEU	670	1.733	60.085	-7.439	1.00	0.00	C
ATOM	6389	CD2	LEU	670	2.054	62.128	-8.961	1.00	0.00	C
ATOM	6390	C	LEU	670	4.604	60.269	-6.853	1.00	0.00	C
ATOM	6391	O	LEU	670	4.250	61.014	-5.938	1.00	0.00	O
ATOM	6392	N	ALA	671	4.870	58.971	-6.656	1.00	0.00	N
ATOM	6393	HN	ALA	671	5.231	58.375	-7.401	1.00	0.00	H
ATOM	6394	CA	ALA	671	4.620	58.469	-5.344	1.00	0.00	C
ATOM	6395	CB	ALA	671	4.804	56.945	-5.253	1.00	0.00	C
ATOM	6396	C	ALA	671	5.536	59.097	-4.342	1.00	0.00	C
ATOM	6397	O	ALA	671	5.095	59.832	-3.464	1.00	0.00	O
ATOM	6398	N	LEU	672	6.856	58.928	-4.508	1.00	0.00	N
ATOM	6399	HN	LEU	672	7.223	58.471	-5.343	1.00	0.00	H
ATOM	6400	CA	LEU	672	7.739	59.403	-3.486	1.00	0.00	C
ATOM	6401	CB	LEU	672	9.200	59.084	-3.820	1.00	0.00	C
ATOM	6402	CG	LEU	672	10.209	59.564	-2.769	1.00	0.00	C
ATOM	6403	CD1	LEU	672	10.133	58.743	-1.476	1.00	0.00	C
ATOM	6404	CD2	LEU	672	11.613	59.611	-3.372	1.00	0.00	C
ATOM	6405	C	LEU	672	7.644	60.884	-3.361	1.00	0.00	C
ATOM	6406	O	LEU	672	7.235	61.385	-2.316	1.00	0.00	O
ATOM	6407	N	GLY	673	7.902	61.612	-4.467	1.00	0.00	N
ATOM	6408	HN	GLY	673	8.012	61.145	-5.367	1.00	0.00	H
ATOM	6409	CA	GLY	673	8.023	63.035	-4.386	1.00	0.00	C
ATOM	6410	C	GLY	673	6.775	63.627	-3.817	1.00	0.00	C
ATOM	6411	O	GLY	673	6.842	64.425	-2.883	1.00	0.00	O
ATOM	6412	N	ILE	674	5.599	63.254	-4.349	1.00	0.00	N
ATOM	6413	HN	ILE	674	5.552	62.544	-5.080	1.00	0.00	H
ATOM	6414	CA	ILE	674	4.412	63.888	-3.855	1.00	0.00	C
ATOM	6415	CB	ILE	674	3.193	63.581	-4.677	1.00	0.00	C
ATOM	6416	CG1	ILE	674	3.325	64.186	-6.085	1.00	0.00	C
ATOM	6417	CG2	ILE	674	1.966	64.093	-3.903	1.00	0.00	C
ATOM	6418	CD1	ILE	674	4.447	63.571	-6.918	1.00	0.00	C
ATOM	6419	C	ILE	674	4.092	63.478	-2.455	1.00	0.00	C
ATOM	6420	O	ILE	674	4.119	64.319	-1.561	1.00	0.00	O
ATOM	6421	N	ILE	675	3.941	62.158	-2.206	1.00	0.00	N
ATOM	6422	HN	ILE	675	4.221	61.486	-2.920	1.00	0.00	H
ATOM	6423	CA	ILE	675	3.397	61.670	-0.964	1.00	0.00	C
ATOM	6424	CB	ILE	675	3.455	60.174	-0.854	1.00	0.00	C
ATOM	6425	CG1	ILE	675	2.602	59.515	-1.950	1.00	0.00	C
ATOM	6426	CG2	ILE	675	3.046	59.784	0.576	1.00	0.00	C
ATOM	6427	CD1	ILE	675	2.835	58.010	-2.083	1.00	0.00	C
ATOM	6428	C	ILE	675	4.202	62.214	0.164	1.00	0.00	C
ATOM	6429	O	ILE	675	3.646	62.672	1.161	1.00	0.00	O
ATOM	6430	N	SER	676	5.537	62.195	0.024	1.00	0.00	N
ATOM	6431	HN	SER	676	5.953	61.852	-0.842	1.00	0.00	H
ATOM	6432	CA	SER	676	6.378	62.656	1.088	1.00	0.00	C
ATOM	6433	CB	SER	676	7.867	62.361	0.856	1.00	0.00	C
ATOM	6434	OG	SER	676	8.611	62.746	2.003	1.00	0.00	O
ATOM	6435	HG	SER	676	9.532	62.563	1.859	1.00	0.00	H

ATOM	6436	C	SER	676	6.233	64.128	1.279	1.00	0.00	C
ATOM	6437	O	SER	676	6.045	64.574	2.410	1.00	0.00	O
ATOM	6438	N	PHE	677	6.248	64.900	0.169	1.00	0.00	N
ATOM	6439	HN	PHE	677	6.307	64.443	-0.741	1.00	0.00	H
ATOM	6440	CA	PHE	677	6.184	66.334	0.213	1.00	0.00	C
ATOM	6441	CB	PHE	677	6.000	66.920	-1.195	1.00	0.00	C
ATOM	6442	CG	PHE	677	5.939	68.400	-1.092	1.00	0.00	C
ATOM	6443	CD1	PHE	677	7.096	69.139	-1.070	1.00	0.00	C
ATOM	6444	CD2	PHE	677	4.728	69.046	-1.010	1.00	0.00	C
ATOM	6445	CE1	PHE	677	7.044	70.509	-0.977	1.00	0.00	C
ATOM	6446	CE2	PHE	677	4.670	70.416	-0.916	1.00	0.00	C
ATOM	6447	CZ	PHE	677	5.831	71.149	-0.901	1.00	0.00	C
ATOM	6448	C	PHE	677	4.972	66.629	1.016	1.00	0.00	C
ATOM	6449	O	PHE	677	4.984	67.489	1.898	1.00	0.00	O
ATOM	6450	N	ILE	678	3.898	65.874	0.741	1.00	0.00	N
ATOM	6451	HN	ILE	678	3.921	65.200	-0.025	1.00	0.00	H
ATOM	6452	CA	ILE	678	2.724	66.028	1.536	1.00	0.00	C
ATOM	6453	CB	ILE	678	1.541	65.241	1.055	1.00	0.00	C
ATOM	6454	CG1	ILE	678	0.934	65.871	-0.211	1.00	0.00	C
ATOM	6455	CG2	ILE	678	0.550	65.153	2.228	1.00	0.00	C
ATOM	6456	CD1	ILE	678	1.830	65.819	-1.444	1.00	0.00	C
ATOM	6457	C	ILE	678	2.988	65.596	2.943	1.00	0.00	C
ATOM	6458	O	ILE	678	2.807	66.411	3.843	1.00	0.00	O
ATOM	6459	N	THR	679	3.542	64.375	3.163	1.00	0.00	N
ATOM	6460	HN	THR	679	3.901	63.838	2.374	1.00	0.00	H
ATOM	6461	CA	THR	679	3.631	63.825	4.495	1.00	0.00	C
ATOM	6462	CB	THR	679	4.335	62.493	4.590	1.00	0.00	C
ATOM	6463	OG1	THR	679	4.116	61.930	5.876	1.00	0.00	O
ATOM	6464	HG1	THR	679	4.559	61.092	5.936	1.00	0.00	H
ATOM	6465	CG2	THR	679	5.845	62.661	4.358	1.00	0.00	C
ATOM	6466	C	THR	679	4.331	64.788	5.405	1.00	0.00	C
ATOM	6467	O	THR	679	3.863	65.023	6.519	1.00	0.00	O
ATOM	6468	N	PHE	680	5.451	65.387	4.953	1.00	0.00	N
ATOM	6469	HN	PHE	680	5.796	65.176	4.017	1.00	0.00	H
ATOM	6470	CA	PHE	680	6.162	66.320	5.780	1.00	0.00	C
ATOM	6471	CB	PHE	680	7.502	66.751	5.166	1.00	0.00	C
ATOM	6472	CG	PHE	680	8.449	65.620	5.392	1.00	0.00	C
ATOM	6473	CD1	PHE	680	8.364	64.464	4.650	1.00	0.00	C
ATOM	6474	CD2	PHE	680	9.431	65.719	6.350	1.00	0.00	C
ATOM	6475	CE1	PHE	680	9.240	63.425	4.863	1.00	0.00	C
ATOM	6476	CE2	PHE	680	10.311	64.684	6.568	1.00	0.00	C
ATOM	6477	CZ	PHE	680	10.216	63.533	5.824	1.00	0.00	C
ATOM	6478	C	PHE	680	5.313	67.515	6.032	1.00	0.00	C
ATOM	6479	O	PHE	680	5.029	67.811	7.187	1.00	0.00	O
ATOM	6480	N	PHE	681	4.777	68.134	4.960	1.00	0.00	N
ATOM	6481	HN	PHE	681	4.899	67.707	4.042	1.00	0.00	H
ATOM	6482	CA	PHE	681	4.042	69.366	5.050	1.00	0.00	C
ATOM	6483	CB	PHE	681	3.361	69.707	3.711	1.00	0.00	C
ATOM	6484	CG	PHE	681	2.559	70.951	3.864	1.00	0.00	C
ATOM	6485	CD1	PHE	681	3.168	72.183	3.854	1.00	0.00	C
ATOM	6486	CD2	PHE	681	1.190	70.884	3.999	1.00	0.00	C
ATOM	6487	CE1	PHE	681	2.424	73.331	3.989	1.00	0.00	C
ATOM	6488	CE2	PHE	681	0.441	72.028	4.134	1.00	0.00	C
ATOM	6489	CZ	PHE	681	1.059	73.255	4.130	1.00	0.00	C
ATOM	6490	C	PHE	681	2.972	69.209	6.085	1.00	0.00	C
ATOM	6491	O	PHE	681	2.862	70.041	6.982	1.00	0.00	O
ATOM	6492	N	LEU	682	2.184	68.123	6.004	1.00	0.00	N
ATOM	6493	HN	LEU	682	2.352	67.453	5.254	1.00	0.00	H
ATOM	6494	CA	LEU	682	1.114	67.866	6.931	1.00	0.00	C
ATOM	6495	CB	LEU	682	0.359	66.580	6.523	1.00	0.00	C
ATOM	6496	CG	LEU	682	-0.739	66.064	7.480	1.00	0.00	C
ATOM	6497	CD1	LEU	682	-0.179	65.389	8.745	1.00	0.00	C
ATOM	6498	CD2	LEU	682	-1.756	67.168	7.795	1.00	0.00	C
ATOM	6499	C	LEU	682	1.628	67.662	8.327	1.00	0.00	C
ATOM	6500	O	LEU	682	1.247	68.377	9.250	1.00	0.00	O
ATOM	6501	N	GLN	683	2.557	66.705	8.491	1.00	0.00	N
ATOM	6502	HN	GLN	683	2.920	66.259	7.649	1.00	0.00	H
ATOM	6503	CA	GLN	683	3.085	66.255	9.754	1.00	0.00	C
ATOM	6504	CB	GLN	683	4.154	65.209	9.423	1.00	0.00	C
ATOM	6505	CG	GLN	683	4.905	64.541	10.560	1.00	0.00	C
ATOM	6506	CD	GLN	683	5.852	63.600	9.827	1.00	0.00	C
ATOM	6507	OE1	GLN	683	6.855	63.142	10.371	1.00	0.00	O
ATOM	6508	NE2	GLN	683	5.527	63.318	8.536	1.00	0.00	N
ATOM	6509	1HE2	GLN	683	6.161	62.688	8.045	1.00	0.00	H



ATOM	6510	2HE2	GLN	683	4.695	63.698	8.085	1.00	0.00	H
ATOM	6511	C	GLN	683	3.735	67.401	10.456	1.00	0.00	C
ATOM	6512	O	GLN	683	3.495	67.649	11.637	1.00	0.00	O
ATOM	6513	N	GLY	684	4.560	68.156	9.720	1.00	0.00	N
ATOM	6514	HN	GLY	684	4.685	67.929	8.734	1.00	0.00	H
ATOM	6515	CA	GLY	684	5.271	69.268	10.265	1.00	0.00	C
ATOM	6516	C	GLY	684	4.260	70.272	10.701	1.00	0.00	C
ATOM	6517	O	GLY	684	4.474	70.997	11.669	1.00	0.00	O
ATOM	6518	N	PHE	685	3.152	70.378	9.948	1.00	0.00	N
ATOM	6519	HN	PHE	685	3.032	69.769	9.139	1.00	0.00	H
ATOM	6520	CA	PHE	685	2.140	71.336	10.270	1.00	0.00	C
ATOM	6521	CB	PHE	685	1.006	71.341	9.232	1.00	0.00	C
ATOM	6522	CG	PHE	685	0.052	72.420	9.606	1.00	0.00	C
ATOM	6523	CD1	PHE	685	0.247	73.710	9.169	1.00	0.00	C
ATOM	6524	CD2	PHE	685	-1.037	72.143	10.397	1.00	0.00	C
ATOM	6525	CE1	PHE	685	-0.634	74.707	9.514	1.00	0.00	C
ATOM	6526	CE2	PHE	685	-1.922	73.136	10.746	1.00	0.00	C
ATOM	6527	CZ	PHE	685	-1.722	74.422	10.304	1.00	0.00	C
ATOM	6528	C	PHE	685	1.530	71.015	11.603	1.00	0.00	C
ATOM	6529	O	PHE	685	1.482	71.864	12.489	1.00	0.00	O
ATOM	6530	N	THR	686	1.052	69.767	11.769	1.00	0.00	N
ATOM	6531	HN	THR	686	1.199	69.092	11.019	1.00	0.00	H
ATOM	6532	CA	THR	686	0.346	69.332	12.943	1.00	0.00	C
ATOM	6533	CB	THR	686	-0.166	67.941	12.725	1.00	0.00	C
ATOM	6534	OG1	THR	686	-0.898	67.893	11.513	1.00	0.00	O
ATOM	6535	HG1	THR	686	-0.316	68.136	10.802	1.00	0.00	H
ATOM	6536	CG2	THR	686	-1.100	67.551	13.866	1.00	0.00	C
ATOM	6537	C	THR	686	1.231	69.297	14.162	1.00	0.00	C
ATOM	6538	O	THR	686	0.974	69.999	15.138	1.00	0.00	O
ATOM	6539	N	PHE	687	2.328	68.504	14.121	1.00	0.00	N
ATOM	6540	HN	PHE	687	2.578	68.028	13.254	1.00	0.00	H
ATOM	6541	CA	PHE	687	3.143	68.329	15.295	1.00	0.00	C
ATOM	6542	CB	PHE	687	4.111	67.118	15.303	1.00	0.00	C
ATOM	6543	CG	PHE	687	5.312	67.290	14.439	1.00	0.00	C
ATOM	6544	CD1	PHE	687	6.343	68.104	14.843	1.00	0.00	C
ATOM	6545	CD2	PHE	687	5.439	66.598	13.257	1.00	0.00	C
ATOM	6546	CE1	PHE	687	7.467	68.255	14.063	1.00	0.00	C
ATOM	6547	CE2	PHE	687	6.561	66.745	12.474	1.00	0.00	C
ATOM	6548	CZ	PHE	687	7.578	67.577	12.874	1.00	0.00	C
ATOM	6549	C	PHE	687	3.888	69.585	15.598	1.00	0.00	C
ATOM	6550	O	PHE	687	4.131	69.900	16.760	1.00	0.00	O
ATOM	6551	N	GLY	688	4.299	70.333	14.560	1.00	0.00	N
ATOM	6552	HN	GLY	688	4.112	70.033	13.603	1.00	0.00	H
ATOM	6553	CA	GLY	688	5.002	71.557	14.810	1.00	0.00	C
ATOM	6554	C	GLY	688	4.071	72.445	15.577	1.00	0.00	C
ATOM	6555	O	GLY	688	4.470	73.100	16.538	1.00	0.00	O
ATOM	6556	N	LYS	689	2.785	72.448	15.175	1.00	0.00	N
ATOM	6557	HN	LYS	689	2.530	71.847	14.392	1.00	0.00	H
ATOM	6558	CA	LYS	689	1.750	73.241	15.776	1.00	0.00	C
ATOM	6559	CB	LYS	689	0.386	72.988	15.092	1.00	0.00	C
ATOM	6560	CG	LYS	689	-0.859	73.547	15.793	1.00	0.00	C
ATOM	6561	CD	LYS	689	-1.254	72.752	17.039	1.00	0.00	C
ATOM	6562	CE	LYS	689	-2.605	73.127	17.643	1.00	0.00	C
ATOM	6563	NZ	LYS	689	-2.997	72.103	18.638	1.00	0.00	N
ATOM	6564	HZ1	LYS	689	-3.900	72.354	19.042	1.00	0.00	H
ATOM	6565	HZ2	LYS	689	-2.281	71.962	19.350	1.00	0.00	H
ATOM	6566	HZ3	LYS	689	-2.997	71.162	18.245	1.00	0.00	H
ATOM	6567	C	LYS	689	1.675	72.855	17.215	1.00	0.00	C
ATOM	6568	O	LYS	689	1.383	73.693	18.065	1.00	0.00	O
ATOM	6569	N	ALA	690	1.906	71.565	17.519	1.00	0.00	N
ATOM	6570	HN	ALA	690	2.094	70.901	16.768	1.00	0.00	H
ATOM	6571	CA	ALA	690	1.894	71.105	18.877	1.00	0.00	C
ATOM	6572	CB	ALA	690	2.138	69.594	19.016	1.00	0.00	C
ATOM	6573	C	ALA	690	2.997	71.801	19.603	1.00	0.00	C
ATOM	6574	O	ALA	690	2.862	72.129	20.780	1.00	0.00	O
ATOM	6575	N	GLY	691	4.144	71.997	18.927	1.00	0.00	N
ATOM	6576	HN	GLY	691	4.227	71.655	17.970	1.00	0.00	H
ATOM	6577	CA	GLY	691	5.252	72.679	19.531	1.00	0.00	C
ATOM	6578	C	GLY	691	4.860	74.103	19.775	1.00	0.00	C
ATOM	6579	O	GLY	691	5.197	74.672	20.812	1.00	0.00	O
ATOM	6580	N	GLU	692	4.152	74.729	18.810	1.00	0.00	N
ATOM	6581	HN	GLU	692	3.873	74.227	17.967	1.00	0.00	H
ATOM	6582	CA	GLU	692	3.797	76.108	18.984	1.00	0.00	C
ATOM	6583	CB	GLU	692	2.811	76.617	17.917	1.00	0.00	C

ATOM	6584	CG	GLU	692	3.322	76.612	16.484	1.00	0.00	C
ATOM	6585	CD	GLU	692	2.150	76.922	15.565	1.00	0.00	C
ATOM	6586	OE1	GLU	692	1.275	77.730	15.974	1.00	0.00	O
ATOM	6587	OE2	GLU	692	2.110	76.346	14.445	1.00	0.00	O
ATOM	6588	C	GLU	692	2.984	76.197	20.223	1.00	0.00	C
ATOM	6589	O	GLU	692	3.438	76.706	21.243	1.00	0.00	O
ATOM	6590	N	ILE	693	1.810	75.544	20.191	1.00	0.00	N
ATOM	6591	HN	ILE	693	1.597	74.949	19.390	1.00	0.00	H
ATOM	6592	CA	ILE	693	0.850	75.657	21.244	1.00	0.00	C
ATOM	6593	CB	ILE	693	-0.326	74.749	21.038	1.00	0.00	C
ATOM	6594	CG1	ILE	693	-1.263	74.861	22.242	1.00	0.00	C
ATOM	6595	CG2	ILE	693	0.165	73.321	20.746	1.00	0.00	C
ATOM	6596	CD1	ILE	693	-2.576	74.102	22.064	1.00	0.00	C
ATOM	6597	C	ILE	693	1.466	75.264	22.534	1.00	0.00	C
ATOM	6598	O	ILE	693	1.385	76.030	23.490	1.00	0.00	O
ATOM	6599	N	LEU	694	2.166	74.116	22.572	1.00	0.00	N
ATOM	6600	HN	LEU	694	2.310	73.591	21.710	1.00	0.00	H
ATOM	6601	CA	LEU	694	2.712	73.617	23.793	1.00	0.00	C
ATOM	6602	CB	LEU	694	3.568	72.356	23.583	1.00	0.00	C
ATOM	6603	CG	LEU	694	4.208	71.845	24.884	1.00	0.00	C
ATOM	6604	CD1	LEU	694	3.138	71.581	25.944	1.00	0.00	C
ATOM	6605	CD2	LEU	694	5.089	70.612	24.643	1.00	0.00	C
ATOM	6606	C	LEU	694	3.580	74.683	24.384	1.00	0.00	C
ATOM	6607	O	LEU	694	3.469	74.974	25.568	1.00	0.00	O
ATOM	6608	N	THR	695	4.438	75.330	23.581	1.00	0.00	N
ATOM	6609	HN	THR	695	4.483	75.085	22.592	1.00	0.00	H
ATOM	6610	CA	THR	695	5.294	76.363	24.094	1.00	0.00	C
ATOM	6611	CB	THR	695	6.271	76.847	23.063	1.00	0.00	C
ATOM	6612	OG1	THR	695	7.113	75.781	22.648	1.00	0.00	O
ATOM	6613	HG1	THR	695	7.732	76.087	21.995	1.00	0.00	H
ATOM	6614	CG2	THR	695	7.105	77.995	23.654	1.00	0.00	C
ATOM	6615	C	THR	695	4.507	77.564	24.554	1.00	0.00	C
ATOM	6616	O	THR	695	4.801	78.121	25.610	1.00	0.00	O
ATOM	6617	N	LYS	696	3.521	78.029	23.756	1.00	0.00	N
ATOM	6618	HN	LYS	696	3.306	77.522	22.898	1.00	0.00	H
ATOM	6619	CA	LYS	696	2.761	79.214	24.070	1.00	0.00	C
ATOM	6620	CB	LYS	696	1.814	79.632	22.933	1.00	0.00	C
ATOM	6621	CG	LYS	696	2.520	80.011	21.631	1.00	0.00	C
ATOM	6622	CD	LYS	696	1.555	80.128	20.448	1.00	0.00	C
ATOM	6623	CE	LYS	696	0.800	78.830	20.146	1.00	0.00	C
ATOM	6624	NZ	LYS	696	-0.243	79.074	19.125	1.00	0.00	N
ATOM	6625	HZ1	LYS	696	-0.746	78.210	18.924	1.00	0.00	H
ATOM	6626	HZ2	LYS	696	0.141	79.497	18.280	1.00	0.00	H
ATOM	6627	HZ3	LYS	696	-0.874	79.828	19.397	1.00	0.00	H
ATOM	6628	C	LYS	696	1.891	79.014	25.261	1.00	0.00	C
ATOM	6629	O	LYS	696	2.000	79.733	26.251	1.00	0.00	O
ATOM	6630	N	ARG	697	1.049	77.972	25.212	1.00	0.00	N
ATOM	6631	HN	ARG	697	1.073	77.363	24.394	1.00	0.00	H
ATOM	6632	CA	ARG	697	0.121	77.677	26.253	1.00	0.00	C
ATOM	6633	CB	ARG	697	-0.629	76.355	26.005	1.00	0.00	C
ATOM	6634	CG	ARG	697	0.317	75.155	25.887	1.00	0.00	C
ATOM	6635	CD	ARG	697	-0.337	73.869	25.376	1.00	0.00	C
ATOM	6636	NE	ARG	697	-1.201	73.325	26.460	1.00	0.00	N
ATOM	6637	HE	ARG	697	-1.197	73.755	27.385	1.00	0.00	H
ATOM	6638	CZ	ARG	697	-1.998	72.246	26.206	1.00	0.00	C
ATOM	6639	NH1	ARG	697	-2.007	71.685	24.962	1.00	0.00	N
ATOM	6640	1HH1	ARG	697	-1.422	72.076	24.223	1.00	0.00	H
ATOM	6641	2HH1	ARG	697	-2.602	70.879	24.772	1.00	0.00	H
ATOM	6642	NH2	ARG	697	-2.780	71.723	27.194	1.00	0.00	N
ATOM	6643	1HH2	ARG	697	-2.773	72.142	28.124	1.00	0.00	H
ATOM	6644	2HH2	ARG	697	-3.375	70.917	27.004	1.00	0.00	H
ATOM	6645	C	ARG	697	0.971	77.498	27.463	1.00	0.00	C
ATOM	6646	O	ARG	697	0.516	77.746	28.575	1.00	0.00	O
ATOM	6647	N	LEU	698	2.204	76.979	27.272	1.00	0.00	N
ATOM	6648	HN	LEU	698	2.479	76.707	26.328	1.00	0.00	H
ATOM	6649	CA	LEU	698	3.145	76.794	28.343	1.00	0.00	C
ATOM	6650	CB	LEU	698	4.320	75.847	28.021	1.00	0.00	C
ATOM	6651	CG	LEU	698	4.093	74.368	28.420	1.00	0.00	C
ATOM	6652	CD1	LEU	698	4.221	74.212	29.943	1.00	0.00	C
ATOM	6653	CD2	LEU	698	2.759	73.788	27.920	1.00	0.00	C
ATOM	6654	C	LEU	698	3.705	78.062	28.922	1.00	0.00	C
ATOM	6655	O	LEU	698	3.609	78.237	30.133	1.00	0.00	O
ATOM	6656	N	ARG	699	4.254	79.004	28.115	1.00	0.00	N
ATOM	6657	HN	ARG	699	4.260	78.877	27.103	1.00	0.00	H

ATOM	6658	CA	ARG	699	4.829	80.187	28.706	1.00	0.00	C
ATOM	6659	CB	ARG	699	5.398	81.225	27.725	1.00	0.00	C
ATOM	6660	CG	ARG	699	6.762	80.890	27.118	1.00	0.00	C
ATOM	6661	CD	ARG	699	7.456	82.153	26.604	1.00	0.00	C
ATOM	6662	NE	ARG	699	8.574	81.771	25.700	1.00	0.00	N
ATOM	6663	HE	ARG	699	8.693	80.803	25.400	1.00	0.00	H
ATOM	6664	CZ	ARG	699	9.438	82.741	25.279	1.00	0.00	C
ATOM	6665	NH1	ARG	699	9.362	83.994	25.816	1.00	0.00	N
ATOM	6666	1HH1	ARG	699	10.007	84.719	25.502	1.00	0.00	H
ATOM	6667	2HH1	ARG	699	8.669	84.199	26.536	1.00	0.00	H
ATOM	6668	NH2	ARG	699	10.365	82.467	24.316	1.00	0.00	N
ATOM	6669	1HH2	ARG	699	11.010	83.192	24.002	1.00	0.00	H
ATOM	6670	2HH2	ARG	699	10.422	81.531	23.915	1.00	0.00	H
ATOM	6671	C	ARG	699	3.732	80.868	29.442	1.00	0.00	C
ATOM	6672	O	ARG	699	3.943	81.429	30.514	1.00	0.00	O
ATOM	6673	N	TYR	700	2.523	80.828	28.861	1.00	0.00	N
ATOM	6674	HN	TYR	700	2.426	80.367	27.956	1.00	0.00	H
ATOM	6675	CA	TYR	700	1.368	81.408	29.466	1.00	0.00	C
ATOM	6676	CB	TYR	700	0.146	81.310	28.536	1.00	0.00	C
ATOM	6677	CG	TYR	700	-1.065	81.805	29.245	1.00	0.00	C
ATOM	6678	CD1	TYR	700	-1.317	83.151	29.353	1.00	0.00	C
ATOM	6679	CD2	TYR	700	-1.947	80.920	29.817	1.00	0.00	C
ATOM	6680	CE1	TYR	700	-2.438	83.606	30.008	1.00	0.00	C
ATOM	6681	CE2	TYR	700	-3.068	81.367	30.473	1.00	0.00	C
ATOM	6682	CZ	TYR	700	-3.318	82.712	30.569	1.00	0.00	C
ATOM	6683	OH	TYR	700	-4.471	83.168	31.243	1.00	0.00	O
ATOM	6684	HH	TYR	700	-4.644	84.100	31.310	1.00	0.00	H
ATOM	6685	C	TYR	700	1.074	80.691	30.739	1.00	0.00	C
ATOM	6686	O	TYR	700	0.999	81.323	31.788	1.00	0.00	O
ATOM	6687	N	MET	701	0.995	79.347	30.710	1.00	0.00	N
ATOM	6688	HN	MET	701	1.201	78.836	29.852	1.00	0.00	H
ATOM	6689	CA	MET	701	0.618	78.646	31.899	1.00	0.00	C
ATOM	6690	CB	MET	701	0.537	77.117	31.758	1.00	0.00	C
ATOM	6691	CG	MET	701	-0.704	76.633	31.009	1.00	0.00	C
ATOM	6692	SD	MET	701	-1.066	74.866	31.240	1.00	0.00	S
ATOM	6693	CE	MET	701	-1.518	75.032	32.993	1.00	0.00	C
ATOM	6694	C	MET	701	1.613	78.941	32.974	1.00	0.00	C
ATOM	6695	O	MET	701	1.226	79.246	34.097	1.00	0.00	O
ATOM	6696	N	VAL	702	2.917	78.901	32.651	1.00	0.00	N
ATOM	6697	HN	VAL	702	3.190	78.702	31.689	1.00	0.00	H
ATOM	6698	CA	VAL	702	3.930	79.134	33.638	1.00	0.00	C
ATOM	6699	CB	VAL	702	5.320	79.007	33.088	1.00	0.00	C
ATOM	6700	CG1	VAL	702	6.318	79.399	34.189	1.00	0.00	C
ATOM	6701	CG2	VAL	702	5.515	77.579	32.556	1.00	0.00	C
ATOM	6702	C	VAL	702	3.821	80.529	34.169	1.00	0.00	C
ATOM	6703	O	VAL	702	3.813	80.732	35.381	1.00	0.00	O
ATOM	6704	N	PHE	703	3.703	81.531	33.276	1.00	0.00	N
ATOM	6705	HN	PHE	703	3.592	81.318	32.285	1.00	0.00	H
ATOM	6706	CA	PHE	703	3.733	82.899	33.716	1.00	0.00	C
ATOM	6707	CB	PHE	703	3.535	83.912	32.576	1.00	0.00	C
ATOM	6708	CG	PHE	703	4.048	85.231	33.051	1.00	0.00	C
ATOM	6709	CD1	PHE	703	3.474	85.886	34.117	1.00	0.00	C
ATOM	6710	CD2	PHE	703	5.151	85.794	32.453	1.00	0.00	C
ATOM	6711	CE1	PHE	703	3.967	87.094	34.552	1.00	0.00	C
ATOM	6712	CE2	PHE	703	5.648	87.002	32.881	1.00	0.00	C
ATOM	6713	CZ	PHE	703	5.054	87.658	33.930	1.00	0.00	C
ATOM	6714	C	PHE	703	2.591	83.130	34.643	1.00	0.00	C
ATOM	6715	O	PHE	703	2.761	83.647	35.745	1.00	0.00	O
ATOM	6716	N	ARG	704	1.391	82.721	34.214	1.00	0.00	N
ATOM	6717	HN	ARG	704	1.313	82.259	33.308	1.00	0.00	H
ATOM	6718	CA	ARG	704	0.222	82.919	35.000	1.00	0.00	C
ATOM	6719	CB	ARG	704	-1.045	82.373	34.331	1.00	0.00	C
ATOM	6720	CG	ARG	704	-1.512	83.268	33.189	1.00	0.00	C
ATOM	6721	CD	ARG	704	-2.326	84.464	33.682	1.00	0.00	C
ATOM	6722	NE	ARG	704	-3.610	83.921	34.211	1.00	0.00	N
ATOM	6723	HE	ARG	704	-4.122	83.221	33.675	1.00	0.00	H
ATOM	6724	CZ	ARG	704	-4.105	84.353	35.407	1.00	0.00	C
ATOM	6725	NH1	ARG	704	-3.413	85.270	36.145	1.00	0.00	N
ATOM	6726	1HH1	ARG	704	-3.783	85.593	37.039	1.00	0.00	H
ATOM	6727	2HH1	ARG	704	-2.527	85.637	35.798	1.00	0.00	H
ATOM	6728	NH2	ARG	704	-5.291	83.862	35.871	1.00	0.00	N
ATOM	6729	1HH2	ARG	704	-5.661	84.185	36.765	1.00	0.00	H
ATOM	6730	2HH2	ARG	704	-5.808	83.177	35.320	1.00	0.00	H
ATOM	6731	C	ARG	704	0.430	82.181	36.265	1.00	0.00	C

ATOM	6732	O	ARG	704	-0.037	82.628	37.306	1.00	0.00	O
ATOM	6733	N	SER	705	1.141	81.038	36.214	1.00	0.00	N
ATOM	6734	HN	SER	705	1.529	80.716	35.327	1.00	0.00	H
ATOM	6735	CA	SER	705	1.351	80.276	37.409	1.00	0.00	C
ATOM	6736	CB	SER	705	2.263	79.053	37.206	1.00	0.00	C
ATOM	6737	OG	SER	705	1.624	78.098	36.372	1.00	0.00	O
ATOM	6738	HG	SER	705	2.187	77.343	36.247	1.00	0.00	H
ATOM	6739	C	SER	705	2.016	81.184	38.388	1.00	0.00	C
ATOM	6740	O	SER	705	1.696	81.162	39.573	1.00	0.00	O
ATOM	6741	N	MET	706	2.989	81.980	37.911	1.00	0.00	N
ATOM	6742	HN	MET	706	3.241	81.909	36.925	1.00	0.00	H
ATOM	6743	CA	MET	706	3.686	82.924	38.732	1.00	0.00	C
ATOM	6744	CB	MET	706	4.869	83.534	37.966	1.00	0.00	C
ATOM	6745	CG	MET	706	5.911	82.495	37.548	1.00	0.00	C
ATOM	6746	SD	MET	706	6.996	83.024	36.189	1.00	0.00	S
ATOM	6747	CE	MET	706	7.824	84.339	37.127	1.00	0.00	C
ATOM	6748	C	MET	706	2.815	84.073	39.170	1.00	0.00	C
ATOM	6749	O	MET	706	2.723	84.371	40.359	1.00	0.00	O
ATOM	6750	N	LEU	707	2.114	84.734	38.224	1.00	0.00	N
ATOM	6751	HN	LEU	707	2.132	84.410	37.257	1.00	0.00	H
ATOM	6752	CA	LEU	707	1.342	85.894	38.577	1.00	0.00	C
ATOM	6753	CB	LEU	707	0.601	86.523	37.389	1.00	0.00	C
ATOM	6754	CG	LEU	707	1.518	87.276	36.417	1.00	0.00	C
ATOM	6755	CD1	LEU	707	0.706	87.874	35.261	1.00	0.00	C
ATOM	6756	CD2	LEU	707	2.361	88.328	37.158	1.00	0.00	C
ATOM	6757	C	LEU	707	0.301	85.479	39.551	1.00	0.00	C
ATOM	6758	O	LEU	707	0.072	86.146	40.561	1.00	0.00	O
ATOM	6759	N	ARG	708	-0.362	84.354	39.244	1.00	0.00	N
ATOM	6760	HN	ARG	708	-0.121	83.864	38.383	1.00	0.00	H
ATOM	6761	CA	ARG	708	-1.393	83.814	40.074	1.00	0.00	C
ATOM	6762	CB	ARG	708	-2.076	82.589	39.448	1.00	0.00	C
ATOM	6763	CG	ARG	708	-2.788	82.894	38.127	1.00	0.00	C
ATOM	6764	CD	ARG	708	-3.332	81.645	37.431	1.00	0.00	C
ATOM	6765	NE	ARG	708	-2.180	80.718	37.239	1.00	0.00	N
ATOM	6766	HE	ARG	708	-1.356	80.808	37.833	1.00	0.00	H
ATOM	6767	CZ	ARG	708	-2.217	79.750	36.277	1.00	0.00	C
ATOM	6768	NH1	ARG	708	-3.285	79.663	35.434	1.00	0.00	N
ATOM	6769	1HH1	ARG	708	-4.058	80.322	35.528	1.00	0.00	H
ATOM	6770	2HH1	ARG	708	-3.313	78.940	34.715	1.00	0.00	H
ATOM	6771	NH2	ARG	708	-1.183	78.868	36.151	1.00	0.00	N
ATOM	6772	1HH2	ARG	708	-0.384	78.933	36.782	1.00	0.00	H
ATOM	6773	2HH2	ARG	708	-1.211	78.145	35.432	1.00	0.00	H
ATOM	6774	C	ARG	708	-0.749	83.383	41.333	1.00	0.00	C
ATOM	6775	O	ARG	708	-1.257	83.630	42.426	1.00	0.00	O
ATOM	6776	N	GLN	709	0.431	82.749	41.218	1.00	0.00	N
ATOM	6777	HN	GLN	709	0.861	82.553	40.314	1.00	0.00	H
ATOM	6778	CA	GLN	709	1.033	82.374	42.442	1.00	0.00	C
ATOM	6779	CB	GLN	709	2.166	81.337	42.395	1.00	0.00	C
ATOM	6780	CG	GLN	709	3.459	81.705	41.691	1.00	0.00	C
ATOM	6781	CD	GLN	709	4.415	80.642	42.197	1.00	0.00	C
ATOM	6782	OE1	GLN	709	5.081	79.953	41.427	1.00	0.00	O
ATOM	6783	NE2	GLN	709	4.466	80.499	43.549	1.00	0.00	N
ATOM	6784	1HE2	GLN	709	3.913	81.071	44.188	1.00	0.00	H
ATOM	6785	2HE2	GLN	709	5.109	79.784	43.889	1.00	0.00	H
ATOM	6786	C	GLN	709	1.461	83.652	43.062	1.00	0.00	C
ATOM	6787	O	GLN	709	1.316	84.731	42.491	1.00	0.00	O
ATOM	6788	N	ASP	710	1.896	83.571	44.312	1.00	0.00	N
ATOM	6789	HN	ASP	710	1.966	82.659	44.764	1.00	0.00	H
ATOM	6790	CA	ASP	710	2.264	84.738	45.026	1.00	0.00	C
ATOM	6791	CB	ASP	710	1.210	85.863	44.980	1.00	0.00	C
ATOM	6792	CG	ASP	710	-0.137	85.333	45.456	1.00	0.00	C
ATOM	6793	OD1	ASP	710	-0.257	84.109	45.728	1.00	0.00	O
ATOM	6794	OD2	ASP	710	-1.079	86.165	45.539	1.00	0.00	O
ATOM	6795	C	ASP	710	2.398	84.216	46.393	1.00	0.00	C
ATOM	6796	O	ASP	710	2.774	83.055	46.553	1.00	0.00	O
ATOM	6797	N	VAL	711	2.097	85.056	47.395	1.00	0.00	N
ATOM	6798	HN	VAL	711	1.794	86.009	47.193	1.00	0.00	H
ATOM	6799	CA	VAL	711	2.203	84.608	48.741	1.00	0.00	C
ATOM	6800	CB	VAL	711	1.597	83.249	48.998	1.00	0.00	C
ATOM	6801	CG1	VAL	711	1.643	82.887	50.495	1.00	0.00	C
ATOM	6802	CG2	VAL	711	0.183	83.272	48.404	1.00	0.00	C
ATOM	6803	C	VAL	711	3.677	84.648	48.962	1.00	0.00	C
ATOM	6804	O	VAL	711	4.363	85.385	48.259	1.00	0.00	O
ATOM	6805	N	SER	712	4.208	83.834	49.887	1.00	0.00	N

ATOM	6806	HN	SER	712	3.598	83.155	50.342	1.00	0.00	H
ATOM	6807	CA	SER	712	5.587	83.870	50.267	1.00	0.00	C
ATOM	6808	CB	SER	712	5.925	82.894	51.397	1.00	0.00	C
ATOM	6809	OG	SER	712	5.310	83.346	52.592	1.00	0.00	O
ATOM	6810	HG	SER	712	5.520	82.740	53.293	1.00	0.00	H
ATOM	6811	C	SER	712	6.492	83.562	49.117	1.00	0.00	C
ATOM	6812	O	SER	712	7.700	83.456	49.319	1.00	0.00	O
ATOM	6813	N	TRP	713	5.955	83.365	47.898	1.00	0.00	N
ATOM	6814	HN	TRP	713	4.943	83.373	47.772	1.00	0.00	H
ATOM	6815	CA	TRP	713	6.826	83.144	46.779	1.00	0.00	C
ATOM	6816	CB	TRP	713	6.033	83.108	45.460	1.00	0.00	C
ATOM	6817	CG	TRP	713	6.825	82.971	44.179	1.00	0.00	C
ATOM	6818	CD2	TRP	713	7.360	81.731	43.695	1.00	0.00	C
ATOM	6819	CD1	TRP	713	7.156	83.920	43.255	1.00	0.00	C
ATOM	6820	NE1	TRP	713	7.845	83.344	42.214	1.00	0.00	N
ATOM	6821	HE1	TRP	713	8.196	83.831	41.389	1.00	0.00	H
ATOM	6822	CE2	TRP	713	7.981	81.997	42.474	1.00	0.00	C
ATOM	6823	CE3	TRP	713	7.330	80.474	44.223	1.00	0.00	C
ATOM	6824	CZ2	TRP	713	8.583	81.000	41.758	1.00	0.00	C
ATOM	6825	CZ3	TRP	713	7.940	79.473	43.502	1.00	0.00	C
ATOM	6826	CH2	TRP	713	8.553	79.730	42.293	1.00	0.00	C
ATOM	6827	C	TRP	713	7.767	84.303	46.724	1.00	0.00	C
ATOM	6828	O	TRP	713	8.927	84.154	47.083	1.00	0.00	O
ATOM	6829	N	PHE	714	7.297	85.491	46.305	1.00	0.00	N
ATOM	6830	HN	PHE	714	6.341	85.540	45.954	1.00	0.00	H
ATOM	6831	CA	PHE	714	8.080	86.695	46.329	1.00	0.00	C
ATOM	6832	CB	PHE	714	7.548	87.811	45.422	1.00	0.00	C
ATOM	6833	CG	PHE	714	7.622	87.329	44.021	1.00	0.00	C
ATOM	6834	CD1	PHE	714	8.841	87.082	43.436	1.00	0.00	C
ATOM	6835	CD2	PHE	714	6.475	87.157	43.283	1.00	0.00	C
ATOM	6836	CE1	PHE	714	8.913	86.644	42.136	1.00	0.00	C
ATOM	6837	CE2	PHE	714	6.540	86.721	41.982	1.00	0.00	C
ATOM	6838	CZ	PHE	714	7.762	86.462	41.407	1.00	0.00	C
ATOM	6839	C	PHE	714	7.990	87.236	47.720	1.00	0.00	C
ATOM	6840	O	PHE	714	8.831	88.015	48.159	1.00	0.00	O
ATOM	6841	N	ASP	715	6.890	86.892	48.417	1.00	0.00	N
ATOM	6842	HN	ASP	715	6.225	86.245	47.994	1.00	0.00	H
ATOM	6843	CA	ASP	715	6.617	87.399	49.729	1.00	0.00	C
ATOM	6844	CB	ASP	715	5.255	86.969	50.303	1.00	0.00	C
ATOM	6845	CG	ASP	715	4.178	87.769	49.577	1.00	0.00	C
ATOM	6846	OD1	ASP	715	4.347	87.993	48.349	1.00	0.00	O
ATOM	6847	OD2	ASP	715	3.181	88.169	50.235	1.00	0.00	O
ATOM	6848	C	ASP	715	7.697	86.972	50.684	1.00	0.00	C
ATOM	6849	O	ASP	715	7.923	87.644	51.691	1.00	0.00	O
ATOM	6850	N	ASP	716	8.318	85.797	50.440	1.00	0.00	N
ATOM	6851	HN	ASP	716	7.961	85.213	49.684	1.00	0.00	H
ATOM	6852	CA	ASP	716	9.457	85.319	51.186	1.00	0.00	C
ATOM	6853	CB	ASP	716	9.061	84.451	52.393	1.00	0.00	C
ATOM	6854	CG	ASP	716	10.243	84.380	53.352	1.00	0.00	C
ATOM	6855	OD1	ASP	716	11.043	85.353	53.376	1.00	0.00	O
ATOM	6856	OD2	ASP	716	10.362	83.356	54.076	1.00	0.00	O
ATOM	6857	C	ASP	716	10.175	84.429	50.208	1.00	0.00	C
ATOM	6858	O	ASP	716	10.055	83.205	50.257	1.00	0.00	O
ATOM	6859	N	PRO	717	10.917	85.056	49.329	1.00	0.00	N
ATOM	6860	CA	PRO	717	11.455	84.454	48.137	1.00	0.00	C
ATOM	6861	CD	PRO	717	10.914	86.502	49.250	1.00	0.00	C
ATOM	6862	CB	PRO	717	11.410	85.555	47.079	1.00	0.00	C
ATOM	6863	CG	PRO	717	11.589	86.836	47.906	1.00	0.00	C
ATOM	6864	C	PRO	717	12.803	83.833	48.096	1.00	0.00	C
ATOM	6865	O	PRO	717	13.569	83.900	49.058	1.00	0.00	O
ATOM	6866	N	LYS	718	13.064	83.216	46.923	1.00	0.00	N
ATOM	6867	HN	LYS	718	12.287	83.109	46.271	1.00	0.00	H
ATOM	6868	CA	LYS	718	14.328	82.702	46.515	1.00	0.00	C
ATOM	6869	CB	LYS	718	14.690	81.362	47.182	1.00	0.00	C
ATOM	6870	CG	LYS	718	13.574	80.313	47.184	1.00	0.00	C
ATOM	6871	CD	LYS	718	12.347	80.710	48.011	1.00	0.00	C
ATOM	6872	CE	LYS	718	12.676	81.200	49.425	1.00	0.00	C
ATOM	6873	NZ	LYS	718	13.181	80.091	50.257	1.00	0.00	N
ATOM	6874	HZ1	LYS	718	13.400	80.417	51.198	1.00	0.00	H
ATOM	6875	HZ2	LYS	718	13.978	79.626	49.823	1.00	0.00	H
ATOM	6876	HZ3	LYS	718	12.533	79.303	50.271	1.00	0.00	H
ATOM	6877	C	LYS	718	14.239	82.506	45.029	1.00	0.00	C
ATOM	6878	O	LYS	718	14.847	81.591	44.475	1.00	0.00	O
ATOM	6879	N	ASN	719	13.472	83.370	44.328	1.00	0.00	N

ATOM	6880	HN	ASN	719	12.984	84.132	44.798	1.00	0.00	H
ATOM	6881	CA	ASN	719	13.359	83.194	42.911	1.00	0.00	C
ATOM	6882	CB	ASN	719	12.026	82.529	42.542	1.00	0.00	C
ATOM	6883	CG	ASN	719	11.954	81.216	43.305	1.00	0.00	C
ATOM	6884	OD1	ASN	719	12.757	80.311	43.087	1.00	0.00	O
ATOM	6885	ND2	ASN	719	10.973	81.116	44.241	1.00	0.00	N
ATOM	6886	1HD2	ASN	719	10.307	81.867	44.422	1.00	0.00	H
ATOM	6887	2HD2	ASN	719	10.925	80.235	44.753	1.00	0.00	H
ATOM	6888	C	ASN	719	13.339	84.550	42.293	1.00	0.00	C
ATOM	6889	O	ASN	719	12.272	85.119	42.073	1.00	0.00	O
ATOM	6890	N	THR	720	14.514	85.071	41.909	1.00	0.00	N
ATOM	6891	HN	THR	720	15.369	84.519	41.971	1.00	0.00	H
ATOM	6892	CA	THR	720	14.551	86.411	41.412	1.00	0.00	C
ATOM	6893	CB	THR	720	15.909	87.032	41.319	1.00	0.00	C
ATOM	6894	OG1	THR	720	16.763	86.248	40.500	1.00	0.00	O
ATOM	6895	HG1	THR	720	17.625	86.642	40.441	1.00	0.00	H
ATOM	6896	CG2	THR	720	16.472	87.198	42.733	1.00	0.00	C
ATOM	6897	C	THR	720	13.967	86.480	40.056	1.00	0.00	C
ATOM	6898	O	THR	720	13.588	85.480	39.445	1.00	0.00	O
ATOM	6899	N	THR	721	13.883	87.730	39.574	1.00	0.00	N
ATOM	6900	HN	THR	721	14.242	88.501	40.136	1.00	0.00	H
ATOM	6901	CA	THR	721	13.309	88.013	38.304	1.00	0.00	C
ATOM	6902	CB	THR	721	13.351	89.471	37.946	1.00	0.00	C
ATOM	6903	OG1	THR	721	12.662	90.237	38.922	1.00	0.00	O
ATOM	6904	HG1	THR	721	12.689	91.159	38.696	1.00	0.00	H
ATOM	6905	CG2	THR	721	12.696	89.660	36.566	1.00	0.00	C
ATOM	6906	C	THR	721	14.089	87.302	37.250	1.00	0.00	C
ATOM	6907	O	THR	721	13.513	86.658	36.376	1.00	0.00	O
ATOM	6908	N	GLY	722	15.429	87.371	37.321	1.00	0.00	N
ATOM	6909	HN	GLY	722	15.879	87.834	38.110	1.00	0.00	H
ATOM	6910	CA	GLY	722	16.220	86.788	36.277	1.00	0.00	C
ATOM	6911	C	GLY	722	15.931	85.333	36.229	1.00	0.00	C
ATOM	6912	O	GLY	722	15.758	84.763	35.152	1.00	0.00	O
ATOM	6913	N	ALA	723	15.826	84.702	37.408	1.00	0.00	N
ATOM	6914	HN	ALA	723	15.895	85.228	38.279	1.00	0.00	H
ATOM	6915	CA	ALA	723	15.617	83.292	37.436	1.00	0.00	C
ATOM	6916	CB	ALA	723	15.463	82.745	38.865	1.00	0.00	C
ATOM	6917	C	ALA	723	14.350	83.021	36.703	1.00	0.00	C
ATOM	6918	O	ALA	723	14.242	82.039	35.974	1.00	0.00	O
ATOM	6919	N	LEU	724	13.356	83.898	36.890	1.00	0.00	N
ATOM	6920	HN	LEU	724	13.514	84.703	37.497	1.00	0.00	H
ATOM	6921	CA	LEU	724	12.077	83.741	36.264	1.00	0.00	C
ATOM	6922	CB	LEU	724	11.053	84.725	36.843	1.00	0.00	C
ATOM	6923	CG	LEU	724	10.872	84.547	38.362	1.00	0.00	C
ATOM	6924	CD1	LEU	724	9.837	85.532	38.929	1.00	0.00	C
ATOM	6925	CD2	LEU	724	10.577	83.080	38.716	1.00	0.00	C
ATOM	6926	C	LEU	724	12.113	83.944	34.775	1.00	0.00	C
ATOM	6927	O	LEU	724	11.598	83.127	34.010	1.00	0.00	O
ATOM	6928	N	THR	725	12.753	85.034	34.320	1.00	0.00	N
ATOM	6929	HN	THR	725	13.248	85.637	34.976	1.00	0.00	H
ATOM	6930	CA	THR	725	12.749	85.360	32.925	1.00	0.00	C
ATOM	6931	CB	THR	725	13.635	86.531	32.662	1.00	0.00	C
ATOM	6932	OG1	THR	725	13.185	87.657	33.399	1.00	0.00	O
ATOM	6933	HG1	THR	725	13.179	87.478	34.332	1.00	0.00	H
ATOM	6934	CG2	THR	725	13.645	86.820	31.160	1.00	0.00	C
ATOM	6935	C	THR	725	13.349	84.211	32.199	1.00	0.00	C
ATOM	6936	O	THR	725	12.815	83.722	31.200	1.00	0.00	O
ATOM	6937	N	THR	726	14.475	83.722	32.740	1.00	0.00	N
ATOM	6938	HN	THR	726	14.821	84.082	33.629	1.00	0.00	H
ATOM	6939	CA	THR	726	15.181	82.690	32.052	1.00	0.00	C
ATOM	6940	CB	THR	726	16.403	82.208	32.774	1.00	0.00	C
ATOM	6941	OG1	THR	726	16.062	81.682	34.048	1.00	0.00	O
ATOM	6942	HG1	THR	726	16.836	81.377	34.506	1.00	0.00	H
ATOM	6943	CG2	THR	726	17.378	83.380	32.915	1.00	0.00	C
ATOM	6944	C	THR	726	14.292	81.518	31.895	1.00	0.00	C
ATOM	6945	O	THR	726	14.135	80.988	30.794	1.00	0.00	O
ATOM	6946	N	ARG	727	13.625	81.139	32.993	1.00	0.00	N
ATOM	6947	HN	ARG	727	13.682	81.691	33.849	1.00	0.00	H
ATOM	6948	CA	ARG	727	12.833	79.952	32.949	1.00	0.00	C
ATOM	6949	CB	ARG	727	12.087	79.677	34.268	1.00	0.00	C
ATOM	6950	CG	ARG	727	12.993	79.124	35.369	1.00	0.00	C
ATOM	6951	CD	ARG	727	12.998	77.595	35.431	1.00	0.00	C
ATOM	6952	NE	ARG	727	14.073	77.180	36.377	1.00	0.00	N
ATOM	6953	HE	ARG	727	13.879	77.115	37.376	1.00	0.00	H

ATOM	6954	CZ	ARG	727	15.318	76.888	35.899	1.00	0.00	C
ATOM	6955	NH1	ARG	727	15.575	76.981	34.562	1.00	0.00	N
ATOM	6956	1HH1	ARG	727	14.836	77.275	33.923	1.00	0.00	H
ATOM	6957	2HH1	ARG	727	16.505	76.763	34.205	1.00	0.00	H
ATOM	6958	NH2	ARG	727	16.307	76.495	36.755	1.00	0.00	N
ATOM	6959	1HH2	ARG	727	16.115	76.425	37.754	1.00	0.00	H
ATOM	6960	2HH2	ARG	727	17.237	76.277	36.398	1.00	0.00	H
ATOM	6961	C	ARG	727	11.811	80.050	31.865	1.00	0.00	C
ATOM	6962	O	ARG	727	11.635	79.103	31.097	1.00	0.00	O
ATOM	6963	N	LEU	728	11.149	81.212	31.725	1.00	0.00	N
ATOM	6964	HN	LEU	728	11.399	82.036	32.272	1.00	0.00	H
ATOM	6965	CA	LEU	728	10.079	81.243	30.776	1.00	0.00	C
ATOM	6966	CB	LEU	728	9.370	82.600	30.710	1.00	0.00	C
ATOM	6967	CG	LEU	728	8.679	82.978	32.029	1.00	0.00	C
ATOM	6968	CD1	LEU	728	7.739	84.176	31.832	1.00	0.00	C
ATOM	6969	CD2	LEU	728	7.992	81.764	32.671	1.00	0.00	C
ATOM	6970	C	LEU	728	10.538	80.916	29.383	1.00	0.00	C
ATOM	6971	O	LEU	728	10.067	79.947	28.788	1.00	0.00	O
ATOM	6972	N	ALA	729	11.510	81.660	28.836	1.00	0.00	N
ATOM	6973	HN	ALA	729	12.015	82.357	29.384	1.00	0.00	H
ATOM	6974	CA	ALA	729	11.814	81.439	27.447	1.00	0.00	C
ATOM	6975	CB	ALA	729	12.777	82.505	26.899	1.00	0.00	C
ATOM	6976	C	ALA	729	12.417	80.099	27.137	1.00	0.00	C
ATOM	6977	O	ALA	729	11.869	79.334	26.340	1.00	0.00	O
ATOM	6978	N	ASN	730	13.523	79.734	27.813	1.00	0.00	N
ATOM	6979	HN	ASN	730	13.860	80.267	28.615	1.00	0.00	H
ATOM	6980	CA	ASN	730	14.206	78.555	27.348	1.00	0.00	C
ATOM	6981	CB	ASN	730	15.560	78.286	28.043	1.00	0.00	C
ATOM	6982	CG	ASN	730	15.363	77.861	29.490	1.00	0.00	C
ATOM	6983	OD1	ASN	730	15.040	76.706	29.762	1.00	0.00	O
ATOM	6984	ND2	ASN	730	15.598	78.801	30.445	1.00	0.00	N
ATOM	6985	1HD2	ASN	730	15.466	78.516	31.415	1.00	0.00	H
ATOM	6986	2HD2	ASN	730	15.866	79.759	30.219	1.00	0.00	H
ATOM	6987	C	ASN	730	13.345	77.345	27.511	1.00	0.00	C
ATOM	6988	O	ASN	730	13.184	76.560	26.576	1.00	0.00	O
ATOM	6989	N	ASP	731	12.707	77.224	28.688	1.00	0.00	N
ATOM	6990	HN	ASP	731	12.735	78.009	29.339	1.00	0.00	H
ATOM	6991	CA	ASP	731	11.987	76.040	29.073	1.00	0.00	C
ATOM	6992	CB	ASP	731	11.416	76.143	30.498	1.00	0.00	C
ATOM	6993	CG	ASP	731	12.576	76.076	31.481	1.00	0.00	C
ATOM	6994	OD1	ASP	731	13.495	75.247	31.243	1.00	0.00	O
ATOM	6995	OD2	ASP	731	12.565	76.852	32.475	1.00	0.00	O
ATOM	6996	C	ASP	731	10.844	75.715	28.164	1.00	0.00	C
ATOM	6997	O	ASP	731	10.623	74.541	27.869	1.00	0.00	O
ATOM	6998	N	ALA	732	10.070	76.715	27.699	1.00	0.00	N
ATOM	6999	HN	ALA	732	10.263	77.691	27.925	1.00	0.00	H
ATOM	7000	CA	ALA	732	8.959	76.339	26.868	1.00	0.00	C
ATOM	7001	CB	ALA	732	8.140	77.546	26.385	1.00	0.00	C
ATOM	7002	C	ALA	732	9.486	75.630	25.653	1.00	0.00	C
ATOM	7003	O	ALA	732	8.978	74.586	25.246	1.00	0.00	O
ATOM	7004	N	ALA	733	10.580	76.134	25.068	1.00	0.00	N
ATOM	7005	HN	ALA	733	11.072	76.934	25.466	1.00	0.00	H
ATOM	7006	CA	ALA	733	11.036	75.505	23.857	1.00	0.00	C
ATOM	7007	CB	ALA	733	12.278	76.198	23.273	1.00	0.00	C
ATOM	7008	C	ALA	733	11.400	74.064	24.070	1.00	0.00	C
ATOM	7009	O	ALA	733	10.937	73.177	23.353	1.00	0.00	O
ATOM	7010	N	GLN	734	12.173	73.782	25.125	1.00	0.00	N
ATOM	7011	HN	GLN	734	12.373	74.518	25.803	1.00	0.00	H
ATOM	7012	CA	GLN	734	12.729	72.476	25.331	1.00	0.00	C
ATOM	7013	CB	GLN	734	13.424	72.425	26.697	1.00	0.00	C
ATOM	7014	CG	GLN	734	14.298	73.654	26.970	1.00	0.00	C
ATOM	7015	CD	GLN	734	15.559	73.571	26.129	1.00	0.00	C
ATOM	7016	OE1	GLN	734	16.198	72.523	26.051	1.00	0.00	O
ATOM	7017	NE2	GLN	734	15.931	74.706	25.479	1.00	0.00	N
ATOM	7018	1HE2	GLN	734	16.778	74.650	24.914	1.00	0.00	H
ATOM	7019	2HE2	GLN	734	15.401	75.575	25.544	1.00	0.00	H
ATOM	7020	C	GLN	734	11.617	71.471	25.401	1.00	0.00	C
ATOM	7021	O	GLN	734	11.655	70.427	24.746	1.00	0.00	O
ATOM	7022	N	VAL	735	10.562	71.797	26.167	1.00	0.00	N
ATOM	7023	HN	VAL	735	10.512	72.721	26.597	1.00	0.00	H
ATOM	7024	CA	VAL	735	9.507	70.851	26.382	1.00	0.00	C
ATOM	7025	CB	VAL	735	8.465	71.323	27.361	1.00	0.00	C
ATOM	7026	CG1	VAL	735	8.111	72.795	27.120	1.00	0.00	C
ATOM	7027	CG2	VAL	735	7.247	70.416	27.181	1.00	0.00	C

ATOM	7028	C	VAL	735	8.861	70.445	25.095	1.00	0.00	C
ATOM	7029	O	VAL	735	8.554	69.261	24.918	1.00	0.00	O
ATOM	7030	N	LYS	736	8.690	71.398	24.149	1.00	0.00	N
ATOM	7031	HN	LYS	736	9.016	72.350	24.317	1.00	0.00	H
ATOM	7032	CA	LYS	736	8.047	71.063	22.906	1.00	0.00	C
ATOM	7033	CB	LYS	736	8.001	72.197	21.859	1.00	0.00	C
ATOM	7034	CG	LYS	736	9.344	72.552	21.215	1.00	0.00	C
ATOM	7035	CD	LYS	736	9.204	73.328	19.901	1.00	0.00	C
ATOM	7036	CE	LYS	736	8.085	74.373	19.909	1.00	0.00	C
ATOM	7037	NZ	LYS	736	8.647	75.733	20.067	1.00	0.00	N
ATOM	7038	HZ1	LYS	736	7.902	76.429	20.072	1.00	0.00	H
ATOM	7039	HZ2	LYS	736	9.351	75.937	19.358	1.00	0.00	H
ATOM	7040	HZ3	LYS	736	9.239	75.805	20.895	1.00	0.00	H
ATOM	7041	C	LYS	736	8.835	69.930	22.322	1.00	0.00	C
ATOM	7042	O	LYS	736	8.300	69.043	21.655	1.00	0.00	O
ATOM	7043	N	GLY	737	10.142	69.914	22.630	1.00	0.00	N
ATOM	7044	HN	GLY	737	10.529	70.656	23.213	1.00	0.00	H
ATOM	7045	CA	GLY	737	11.004	68.868	22.152	1.00	0.00	C
ATOM	7046	C	GLY	737	10.582	67.519	22.675	1.00	0.00	C
ATOM	7047	O	GLY	737	10.577	66.539	21.930	1.00	0.00	O
ATOM	7048	N	ALA	738	10.198	67.426	23.964	1.00	0.00	N
ATOM	7049	HN	ALA	738	10.121	68.270	24.532	1.00	0.00	H
ATOM	7050	CA	ALA	738	9.895	66.139	24.546	1.00	0.00	C
ATOM	7051	CB	ALA	738	9.495	66.234	26.031	1.00	0.00	C
ATOM	7052	C	ALA	738	8.751	65.457	23.822	1.00	0.00	C
ATOM	7053	O	ALA	738	8.739	64.231	23.696	1.00	0.00	O
ATOM	7054	N	ILE	739	7.711	66.214	23.405	1.00	0.00	N
ATOM	7055	HN	ILE	739	7.740	67.221	23.564	1.00	0.00	H
ATOM	7056	CA	ILE	739	6.555	65.641	22.739	1.00	0.00	C
ATOM	7057	CB	ILE	739	5.374	66.589	22.754	1.00	0.00	C
ATOM	7058	CG1	ILE	739	4.041	65.872	22.447	1.00	0.00	C
ATOM	7059	CG2	ILE	739	5.681	67.773	21.823	1.00	0.00	C
ATOM	7060	CD1	ILE	739	3.878	65.328	21.026	1.00	0.00	C
ATOM	7061	C	ILE	739	6.797	65.185	21.309	1.00	0.00	C
ATOM	7062	O	ILE	739	6.434	64.068	20.927	1.00	0.00	O
ATOM	7063	N	GLY	740	7.436	66.026	20.471	1.00	0.00	N
ATOM	7064	HN	GLY	740	7.804	66.907	20.829	1.00	0.00	H
ATOM	7065	CA	GLY	740	7.607	65.699	19.075	1.00	0.00	C
ATOM	7066	C	GLY	740	8.352	64.407	18.997	1.00	0.00	C
ATOM	7067	O	GLY	740	8.191	63.636	18.048	1.00	0.00	O
ATOM	7068	N	SER	741	9.217	64.169	20.001	1.00	0.00	N
ATOM	7069	HN	SER	741	9.295	64.856	20.751	1.00	0.00	H
ATOM	7070	CA	SER	741	10.035	62.989	20.062	1.00	0.00	C
ATOM	7071	CB	SER	741	10.907	62.946	21.327	1.00	0.00	C
ATOM	7072	OG	SER	741	11.687	61.760	21.348	1.00	0.00	O
ATOM	7073	HG	SER	741	12.226	61.733	22.130	1.00	0.00	H
ATOM	7074	C	SER	741	9.174	61.759	20.079	1.00	0.00	C
ATOM	7075	O	SER	741	9.454	60.779	19.383	1.00	0.00	O
ATOM	7076	N	ARG	742	8.069	61.793	20.845	1.00	0.00	N
ATOM	7077	HN	ARG	742	7.812	62.645	21.343	1.00	0.00	H
ATOM	7078	CA	ARG	742	7.257	60.616	20.953	1.00	0.00	C
ATOM	7079	CB	ARG	742	6.015	60.822	21.840	1.00	0.00	C
ATOM	7080	CG	ARG	742	6.353	61.147	23.298	1.00	0.00	C
ATOM	7081	CD	ARG	742	6.936	59.966	24.079	1.00	0.00	C
ATOM	7082	NE	ARG	742	7.209	60.444	25.464	1.00	0.00	N
ATOM	7083	HE	ARG	742	6.818	61.331	25.781	1.00	0.00	H
ATOM	7084	CZ	ARG	742	7.981	59.700	26.310	1.00	0.00	C
ATOM	7085	NH1	ARG	742	8.494	58.502	25.904	1.00	0.00	N
ATOM	7086	1HH1	ARG	742	8.300	58.160	24.963	1.00	0.00	H
ATOM	7087	2HH1	ARG	742	9.071	57.946	26.536	1.00	0.00	H
ATOM	7088	NH2	ARG	742	8.241	60.157	27.569	1.00	0.00	N
ATOM	7089	1HH2	ARG	742	7.858	61.052	27.872	1.00	0.00	H
ATOM	7090	2HH2	ARG	742	8.818	59.601	28.201	1.00	0.00	H
ATOM	7091	C	ARG	742	6.782	60.258	19.557	1.00	0.00	C
ATOM	7092	O	ARG	742	6.636	59.089	19.195	1.00	0.00	O
ATOM	7093	N	LEU	743	6.536	61.286	18.726	1.00	0.00	N
ATOM	7094	HN	LEU	743	6.732	62.230	19.059	1.00	0.00	H
ATOM	7095	CA	LEU	743	6.011	61.132	17.389	1.00	0.00	C
ATOM	7096	CB	LEU	743	5.682	62.522	16.801	1.00	0.00	C
ATOM	7097	CG	LEU	743	5.104	62.564	15.372	1.00	0.00	C
ATOM	7098	CD1	LEU	743	6.164	62.265	14.302	1.00	0.00	C
ATOM	7099	CD2	LEU	743	3.851	61.682	15.250	1.00	0.00	C
ATOM	7100	C	LEU	743	6.928	60.387	16.436	1.00	0.00	C
ATOM	7101	O	LEU	743	6.512	59.449	15.754	1.00	0.00	O



ATOM	7102	N	ALA	744	8.216	60.763	16.381	1.00	0.00	N
ATOM	7103	HN	ALA	744	8.530	61.489	17.025	1.00	0.00	H
ATOM	7104	CA	ALA	744	9.185	60.203	15.467	1.00	0.00	C
ATOM	7105	CB	ALA	744	10.568	60.869	15.586	1.00	0.00	C
ATOM	7106	C	ALA	744	9.357	58.759	15.781	1.00	0.00	C
ATOM	7107	O	ALA	744	9.918	58.004	14.987	1.00	0.00	O
ATOM	7108	N	VAL	745	9.030	58.386	17.029	1.00	0.00	N
ATOM	7109	HN	VAL	745	8.674	59.080	17.686	1.00	0.00	H
ATOM	7110	CA	VAL	745	9.175	57.028	17.446	1.00	0.00	C
ATOM	7111	CB	VAL	745	8.880	56.846	18.905	1.00	0.00	C
ATOM	7112	CG1	VAL	745	9.003	55.351	19.245	1.00	0.00	C
ATOM	7113	CG2	VAL	745	9.823	57.755	19.713	1.00	0.00	C
ATOM	7114	C	VAL	745	8.247	56.129	16.695	1.00	0.00	C
ATOM	7115	O	VAL	745	8.675	55.219	15.984	1.00	0.00	O
ATOM	7116	N	ILE	746	6.937	56.422	16.766	1.00	0.00	N
ATOM	7117	HN	ILE	746	6.619	57.273	17.229	1.00	0.00	H
ATOM	7118	CA	ILE	746	5.996	55.514	16.177	1.00	0.00	C
ATOM	7119	CB	ILE	746	4.561	55.926	16.370	1.00	0.00	C
ATOM	7120	CG1	ILE	746	3.620	54.762	16.013	1.00	0.00	C
ATOM	7121	CG2	ILE	746	4.300	57.214	15.570	1.00	0.00	C
ATOM	7122	CD1	ILE	746	2.182	54.970	16.489	1.00	0.00	C
ATOM	7123	C	ILE	746	6.282	55.422	14.710	1.00	0.00	C
ATOM	7124	O	ILE	746	6.246	54.342	14.118	1.00	0.00	O
ATOM	7125	N	THR	747	6.621	56.568	14.096	1.00	0.00	N
ATOM	7126	HN	THR	747	6.748	57.420	14.642	1.00	0.00	H
ATOM	7127	CA	THR	747	6.805	56.595	12.675	1.00	0.00	C
ATOM	7128	CB	THR	747	7.070	57.982	12.159	1.00	0.00	C
ATOM	7129	OG1	THR	747	7.225	57.953	10.749	1.00	0.00	O
ATOM	7130	HG1	THR	747	6.446	57.597	10.338	1.00	0.00	H
ATOM	7131	CG2	THR	747	8.329	58.557	12.823	1.00	0.00	C
ATOM	7132	C	THR	747	7.890	55.694	12.166	1.00	0.00	C
ATOM	7133	O	THR	747	7.605	54.774	11.401	1.00	0.00	O
ATOM	7134	N	GLN	748	9.141	55.859	12.632	1.00	0.00	N
ATOM	7135	HN	GLN	748	9.315	56.507	13.400	1.00	0.00	H
ATOM	7136	CA	GLN	748	10.234	55.126	12.052	1.00	0.00	C
ATOM	7137	CB	GLN	748	11.567	55.375	12.776	1.00	0.00	C
ATOM	7138	CG	GLN	748	11.557	54.856	14.217	1.00	0.00	C
ATOM	7139	CD	GLN	748	12.941	55.023	14.824	1.00	0.00	C
ATOM	7140	OE1	GLN	748	13.579	54.054	15.234	1.00	0.00	O
ATOM	7141	NE2	GLN	748	13.419	56.292	14.895	1.00	0.00	N
ATOM	7142	1HE2	GLN	748	14.347	56.404	15.302	1.00	0.00	H
ATOM	7143	2HE2	GLN	748	12.890	57.095	14.555	1.00	0.00	H
ATOM	7144	C	GLN	748	9.935	53.674	12.210	1.00	0.00	C
ATOM	7145	O	GLN	748	10.139	52.876	11.293	1.00	0.00	O
ATOM	7146	N	ASN	749	9.338	53.333	13.364	1.00	0.00	N
ATOM	7147	HN	ASN	749	9.049	54.061	14.017	1.00	0.00	H
ATOM	7148	CA	ASN	749	9.104	51.961	13.685	1.00	0.00	C
ATOM	7149	CB	ASN	749	8.278	51.797	14.970	1.00	0.00	C
ATOM	7150	CG	ASN	749	7.969	50.316	15.139	1.00	0.00	C
ATOM	7151	OD1	ASN	749	8.713	49.449	14.682	1.00	0.00	O
ATOM	7152	ND2	ASN	749	6.814	50.020	15.793	1.00	0.00	N
ATOM	7153	1HD2	ASN	749	6.197	50.739	16.172	1.00	0.00	H
ATOM	7154	2HD2	ASN	749	6.607	49.028	15.906	1.00	0.00	H
ATOM	7155	C	ASN	749	8.332	51.272	12.614	1.00	0.00	C
ATOM	7156	O	ASN	749	8.803	50.300	12.026	1.00	0.00	O
ATOM	7157	N	ILE	750	7.142	51.786	12.279	1.00	0.00	N
ATOM	7158	HN	ILE	750	6.814	52.666	12.676	1.00	0.00	H
ATOM	7159	CA	ILE	750	6.348	51.050	11.341	1.00	0.00	C
ATOM	7160	CB	ILE	750	4.985	51.638	11.117	1.00	0.00	C
ATOM	7161	CG1	ILE	750	4.154	51.506	12.405	1.00	0.00	C
ATOM	7162	CG2	ILE	750	4.357	50.948	9.894	1.00	0.00	C
ATOM	7163	CD1	ILE	750	2.803	52.210	12.352	1.00	0.00	C
ATOM	7164	C	ILE	750	7.045	50.947	10.023	1.00	0.00	C
ATOM	7165	O	ILE	750	7.071	49.869	9.428	1.00	0.00	O
ATOM	7166	N	ALA	751	7.670	52.045	9.556	1.00	0.00	N
ATOM	7167	HN	ALA	751	7.755	52.875	10.143	1.00	0.00	H
ATOM	7168	CA	ALA	751	8.217	52.041	8.227	1.00	0.00	C
ATOM	7169	CB	ALA	751	9.162	53.218	8.003	1.00	0.00	C
ATOM	7170	C	ALA	751	9.173	50.921	8.040	1.00	0.00	C
ATOM	7171	O	ALA	751	8.903	49.962	7.318	1.00	0.00	O
ATOM	7172	N	ASN	752	10.272	50.979	8.800	1.00	0.00	N
ATOM	7173	HN	ASN	752	10.355	51.683	9.534	1.00	0.00	H
ATOM	7174	CA	ASN	752	11.325	50.047	8.573	1.00	0.00	C
ATOM	7175	CB	ASN	752	12.494	50.277	9.553	1.00	0.00	C

ATOM	7176	CG	ASN	752	13.572	49.210	9.382	1.00	0.00	C
ATOM	7177	OD1	ASN	752	14.606	49.448	8.762	1.00	0.00	O
ATOM	7178	ND2	ASN	752	13.344	48.006	9.975	1.00	0.00	N
ATOM	7179	1HD2	ASN	752	14.064	47.293	9.861	1.00	0.00	H
ATOM	7180	2HD2	ASN	752	12.486	47.808	10.490	1.00	0.00	H
ATOM	7181	C	ASN	752	10.822	48.671	8.805	1.00	0.00	C
ATOM	7182	O	ASN	752	10.822	47.837	7.901	1.00	0.00	O
ATOM	7183	N	LEU	753	10.366	48.404	10.039	1.00	0.00	N
ATOM	7184	HN	LEU	753	10.265	49.134	10.744	1.00	0.00	H
ATOM	7185	CA	LEU	753	10.030	47.045	10.313	1.00	0.00	C
ATOM	7186	CB	LEU	753	9.788	46.813	11.820	1.00	0.00	C
ATOM	7187	CG	LEU	753	9.502	45.356	12.248	1.00	0.00	C
ATOM	7188	CD1	LEU	753	8.106	44.867	11.827	1.00	0.00	C
ATOM	7189	CD2	LEU	753	10.627	44.421	11.778	1.00	0.00	C
ATOM	7190	C	LEU	753	8.816	46.610	9.571	1.00	0.00	C
ATOM	7191	O	LEU	753	8.918	45.826	8.632	1.00	0.00	O
ATOM	7192	N	GLY	754	7.661	47.239	9.867	1.00	0.00	N
ATOM	7193	HN	GLY	754	7.679	48.102	10.411	1.00	0.00	H
ATOM	7194	CA	GLY	754	6.406	46.702	9.422	1.00	0.00	C
ATOM	7195	C	GLY	754	6.385	46.555	7.939	1.00	0.00	C
ATOM	7196	O	GLY	754	6.008	45.508	7.412	1.00	0.00	O
ATOM	7197	N	THR	755	6.811	47.594	7.214	1.00	0.00	N
ATOM	7198	HN	THR	755	7.152	48.445	7.662	1.00	0.00	H
ATOM	7199	CA	THR	755	6.772	47.473	5.790	1.00	0.00	C
ATOM	7200	CB	THR	755	7.093	48.749	5.082	1.00	0.00	C
ATOM	7201	OG1	THR	755	6.224	49.781	5.524	1.00	0.00	O
ATOM	7202	HG1	THR	755	6.351	49.928	6.454	1.00	0.00	H
ATOM	7203	CG2	THR	755	6.887	48.511	3.574	1.00	0.00	C
ATOM	7204	C	THR	755	7.784	46.465	5.359	1.00	0.00	C
ATOM	7205	O	THR	755	7.531	45.644	4.479	1.00	0.00	O
ATOM	7206	N	GLY	756	8.972	46.492	5.985	1.00	0.00	N
ATOM	7207	HN	GLY	756	9.123	47.132	6.765	1.00	0.00	H
ATOM	7208	CA	GLY	756	10.026	45.622	5.558	1.00	0.00	C
ATOM	7209	C	GLY	756	9.613	44.201	5.748	1.00	0.00	C
ATOM	7210	O	GLY	756	9.916	43.355	4.914	1.00	0.00	O
ATOM	7211	N	ILE	757	8.931	43.896	6.866	1.00	0.00	N
ATOM	7212	HN	ILE	757	8.675	44.644	7.511	1.00	0.00	H
ATOM	7213	CA	ILE	757	8.553	42.546	7.176	1.00	0.00	C
ATOM	7214	CB	ILE	757	7.973	42.386	8.552	1.00	0.00	C
ATOM	7215	CG1	ILE	757	6.672	43.183	8.704	1.00	0.00	C
ATOM	7216	CG2	ILE	757	9.055	42.789	9.562	1.00	0.00	C
ATOM	7217	CD1	ILE	757	5.913	42.870	9.993	1.00	0.00	C
ATOM	7218	C	ILE	757	7.558	42.019	6.189	1.00	0.00	C
ATOM	7219	O	ILE	757	7.631	40.862	5.779	1.00	0.00	O
ATOM	7220	N	ILE	758	6.578	42.840	5.779	1.00	0.00	N
ATOM	7221	HN	ILE	758	6.535	43.807	6.101	1.00	0.00	H
ATOM	7222	CA	ILE	758	5.593	42.319	4.875	1.00	0.00	C
ATOM	7223	CB	ILE	758	4.577	43.354	4.492	1.00	0.00	C
ATOM	7224	CG1	ILE	758	3.860	43.889	5.742	1.00	0.00	C
ATOM	7225	CG2	ILE	758	3.628	42.724	3.460	1.00	0.00	C
ATOM	7226	CD1	ILE	758	3.139	42.802	6.536	1.00	0.00	C
ATOM	7227	C	ILE	758	6.308	41.915	3.623	1.00	0.00	C
ATOM	7228	O	ILE	758	6.159	40.802	3.120	1.00	0.00	O
ATOM	7229	N	ILE	759	7.160	42.818	3.119	1.00	0.00	N
ATOM	7230	HN	ILE	759	7.251	43.717	3.593	1.00	0.00	H
ATOM	7231	CA	ILE	759	7.949	42.583	1.947	1.00	0.00	C
ATOM	7232	CB	ILE	759	8.727	43.791	1.494	1.00	0.00	C
ATOM	7233	CG1	ILE	759	7.761	44.830	0.898	1.00	0.00	C
ATOM	7234	CG2	ILE	759	9.790	43.350	0.474	1.00	0.00	C
ATOM	7235	CD1	ILE	759	6.728	45.376	1.876	1.00	0.00	C
ATOM	7236	C	ILE	759	8.865	41.456	2.277	1.00	0.00	C
ATOM	7237	O	ILE	759	9.427	40.801	1.403	1.00	0.00	O
ATOM	7238	N	SER	760	9.127	41.273	3.576	1.00	0.00	N
ATOM	7239	HN	SER	760	8.730	41.911	4.266	1.00	0.00	H
ATOM	7240	CA	SER	760	9.955	40.195	4.005	1.00	0.00	C
ATOM	7241	CB	SER	760	10.267	40.240	5.509	1.00	0.00	C
ATOM	7242	OG	SER	760	10.896	39.039	5.912	1.00	0.00	O
ATOM	7243	HG	SER	760	11.089	39.067	6.842	1.00	0.00	H
ATOM	7244	C	SER	760	9.252	38.917	3.685	1.00	0.00	C
ATOM	7245	O	SER	760	9.892	37.898	3.427	1.00	0.00	O
ATOM	7246	N	PHE	761	7.906	38.935	3.697	1.00	0.00	N
ATOM	7247	HN	PHE	761	7.405	39.792	3.930	1.00	0.00	H
ATOM	7248	CA	PHE	761	7.184	37.739	3.379	1.00	0.00	C
ATOM	7249	CB	PHE	761	5.656	37.901	3.478	1.00	0.00	C

ATOM	7250	CG	PHE	761	5.295	38.057	4.915	1.00	0.00	C
ATOM	7251	CD1	PHE	761	5.295	39.297	5.510	1.00	0.00	C
ATOM	7252	CD2	PHE	761	4.957	36.957	5.670	1.00	0.00	C
ATOM	7253	CE1	PHE	761	4.962	39.436	6.836	1.00	0.00	C
ATOM	7254	CE2	PHE	761	4.623	37.090	6.997	1.00	0.00	C
ATOM	7255	CZ	PHE	761	4.625	38.333	7.582	1.00	0.00	C
ATOM	7256	C	PHE	761	7.500	37.381	1.964	1.00	0.00	C
ATOM	7257	O	PHE	761	7.894	36.254	1.668	1.00	0.00	O
ATOM	7258	N	ILE	762	7.399	38.364	1.052	1.00	0.00	N
ATOM	7259	HN	ILE	762	7.152	39.310	1.342	1.00	0.00	H
ATOM	7260	CA	ILE	762	7.641	38.074	-0.329	1.00	0.00	C
ATOM	7261	CB	ILE	762	7.424	39.214	-1.291	1.00	0.00	C
ATOM	7262	CG1	ILE	762	7.411	38.653	-2.718	1.00	0.00	C
ATOM	7263	CG2	ILE	762	8.499	40.291	-1.106	1.00	0.00	C
ATOM	7264	CD1	ILE	762	6.965	39.670	-3.764	1.00	0.00	C
ATOM	7265	C	ILE	762	9.047	37.595	-0.448	1.00	0.00	C
ATOM	7266	O	ILE	762	9.375	36.843	-1.365	1.00	0.00	O
ATOM	7267	N	TYR	763	9.942	38.071	0.439	1.00	0.00	N
ATOM	7268	HN	TYR	763	9.680	38.755	1.149	1.00	0.00	H
ATOM	7269	CA	TYR	763	11.282	37.568	0.335	1.00	0.00	C
ATOM	7270	CB	TYR	763	12.332	38.017	1.360	1.00	0.00	C
ATOM	7271	CG	TYR	763	12.553	39.484	1.372	1.00	0.00	C
ATOM	7272	CD1	TYR	763	12.776	40.204	0.224	1.00	0.00	C
ATOM	7273	CD2	TYR	763	12.509	40.144	2.572	1.00	0.00	C
ATOM	7274	CE1	TYR	763	12.966	41.564	0.298	1.00	0.00	C
ATOM	7275	CE2	TYR	763	12.698	41.499	2.652	1.00	0.00	C
ATOM	7276	CZ	TYR	763	12.929	42.214	1.509	1.00	0.00	C
ATOM	7277	OH	TYR	763	13.120	43.608	1.590	1.00	0.00	O
ATOM	7278	HH	TYR	763	13.094	44.057	2.427	1.00	0.00	H
ATOM	7279	C	TYR	763	11.214	36.088	0.524	1.00	0.00	C
ATOM	7280	O	TYR	763	10.380	35.592	1.282	1.00	0.00	O
ATOM	7281	N	GLY	764	12.094	35.346	-0.181	1.00	0.00	N
ATOM	7282	HN	GLY	764	12.798	35.803	-0.761	1.00	0.00	H
ATOM	7283	CA	GLY	764	12.039	33.916	-0.115	1.00	0.00	C
ATOM	7284	C	GLY	764	13.065	33.353	0.831	1.00	0.00	C
ATOM	7285	O	GLY	764	13.849	32.480	0.466	1.00	0.00	O
ATOM	7286	N	TRP	765	13.120	33.883	2.065	1.00	0.00	N
ATOM	7287	HN	TRP	765	12.671	34.784	2.231	1.00	0.00	H
ATOM	7288	CA	TRP	765	13.787	33.231	3.161	1.00	0.00	C
ATOM	7289	CB	TRP	765	13.176	31.839	3.381	1.00	0.00	C
ATOM	7290	CG	TRP	765	11.669	31.877	3.463	1.00	0.00	C
ATOM	7291	CD2	TRP	765	10.887	31.755	4.661	1.00	0.00	C
ATOM	7292	CD1	TRP	765	10.780	32.021	2.438	1.00	0.00	C
ATOM	7293	NE1	TRP	765	9.495	32.007	2.921	1.00	0.00	N
ATOM	7294	HE1	TRP	765	8.647	32.103	2.363	1.00	0.00	H
ATOM	7295	CE2	TRP	765	9.545	31.841	4.288	1.00	0.00	C
ATOM	7296	CE3	TRP	765	11.256	31.586	5.964	1.00	0.00	C
ATOM	7297	CZ2	TRP	765	8.548	31.760	5.216	1.00	0.00	C
ATOM	7298	CZ3	TRP	765	10.247	31.502	6.898	1.00	0.00	C
ATOM	7299	CH2	TRP	765	8.920	31.588	6.530	1.00	0.00	C
ATOM	7300	C	TRP	765	15.265	33.015	2.949	1.00	0.00	C
ATOM	7301	O	TRP	765	15.848	32.196	3.657	1.00	0.00	O
ATOM	7302	N	GLN	766	15.901	33.566	1.899	1.00	0.00	N
ATOM	7303	HN	GLN	766	15.384	34.068	1.177	1.00	0.00	H
ATOM	7304	CA	GLN	766	17.335	33.427	1.822	1.00	0.00	C
ATOM	7305	CB	GLN	766	17.798	33.077	0.404	1.00	0.00	C
ATOM	7306	CG	GLN	766	17.140	31.784	-0.072	1.00	0.00	C
ATOM	7307	CD	GLN	766	17.208	30.805	1.091	1.00	0.00	C
ATOM	7308	OE1	GLN	766	18.282	30.513	1.612	1.00	0.00	O
ATOM	7309	NE2	GLN	766	16.021	30.300	1.524	1.00	0.00	N
ATOM	7310	1HE2	GLN	766	16.067	29.644	2.304	1.00	0.00	H
ATOM	7311	2HE2	GLN	766	15.130	30.542	1.092	1.00	0.00	H
ATOM	7312	C	GLN	766	18.101	34.636	2.293	1.00	0.00	C
ATOM	7313	O	GLN	766	19.232	34.537	2.767	1.00	0.00	O
ATOM	7314	N	LEU	767	17.595	35.821	1.902	1.00	0.00	N
ATOM	7315	HN	LEU	767	16.750	35.797	1.331	1.00	0.00	H
ATOM	7316	CA	LEU	767	18.132	37.113	2.213	1.00	0.00	C
ATOM	7317	CB	LEU	767	18.013	38.107	1.053	1.00	0.00	C
ATOM	7318	CG	LEU	767	18.962	37.747	-0.103	1.00	0.00	C
ATOM	7319	CD1	LEU	767	20.432	37.897	0.325	1.00	0.00	C
ATOM	7320	CD2	LEU	767	18.657	36.349	-0.665	1.00	0.00	C
ATOM	7321	C	LEU	767	17.549	37.727	3.426	1.00	0.00	C
ATOM	7322	O	LEU	767	18.262	38.408	4.147	1.00	0.00	O
ATOM	7323	N	THR	768	16.238	37.527	3.674	1.00	0.00	N

ATOM	7324	HN	THR	768	15.705	36.892	3.081	1.00	0.00	H
ATOM	7325	CA	THR	768	15.583	38.198	4.764	1.00	0.00	C
ATOM	7326	CB	THR	768	14.220	37.661	5.047	1.00	0.00	C
ATOM	7327	OG1	THR	768	13.407	37.749	3.894	1.00	0.00	O
ATOM	7328	HG1	THR	768	12.539	37.407	4.074	1.00	0.00	H
ATOM	7329	CG2	THR	768	13.608	38.482	6.192	1.00	0.00	C
ATOM	7330	C	THR	768	16.357	37.874	5.982	1.00	0.00	C
ATOM	7331	O	THR	768	16.775	38.755	6.732	1.00	0.00	O
ATOM	7332	N	LEU	769	16.600	36.572	6.157	1.00	0.00	N
ATOM	7333	HN	LEU	769	16.212	35.895	5.500	1.00	0.00	H
ATOM	7334	CA	LEU	769	17.392	36.118	7.246	1.00	0.00	C
ATOM	7335	CB	LEU	769	17.429	34.589	7.375	1.00	0.00	C
ATOM	7336	CG	LEU	769	18.098	34.087	8.673	1.00	0.00	C
ATOM	7337	CD1	LEU	769	19.606	34.377	8.742	1.00	0.00	C
ATOM	7338	CD2	LEU	769	17.345	34.618	9.900	1.00	0.00	C
ATOM	7339	C	LEU	769	18.782	36.580	6.984	1.00	0.00	C
ATOM	7340	O	LEU	769	19.503	36.984	7.890	1.00	0.00	O
ATOM	7341	N	LEU	770	19.180	36.574	5.706	1.00	0.00	N
ATOM	7342	HN	LEU	770	18.497	36.365	4.978	1.00	0.00	H
ATOM	7343	CA	LEU	770	20.529	36.851	5.328	1.00	0.00	C
ATOM	7344	CB	LEU	770	20.663	36.904	3.793	1.00	0.00	C
ATOM	7345	CG	LEU	770	22.102	36.885	3.252	1.00	0.00	C
ATOM	7346	CD1	LEU	770	22.916	38.105	3.693	1.00	0.00	C
ATOM	7347	CD2	LEU	770	22.785	35.555	3.585	1.00	0.00	C
ATOM	7348	C	LEU	770	20.946	38.189	5.896	1.00	0.00	C
ATOM	7349	O	LEU	770	22.040	38.303	6.439	1.00	0.00	O
ATOM	7350	N	LEU	771	20.110	39.232	5.720	1.00	0.00	N
ATOM	7351	HN	LEU	771	19.243	39.014	5.229	1.00	0.00	H
ATOM	7352	CA	LEU	771	20.255	40.605	6.120	1.00	0.00	C
ATOM	7353	CB	LEU	771	19.328	41.496	5.266	1.00	0.00	C
ATOM	7354	CG	LEU	771	19.355	43.028	5.483	1.00	0.00	C
ATOM	7355	CD1	LEU	771	18.495	43.690	4.401	1.00	0.00	C
ATOM	7356	CD2	LEU	771	18.886	43.489	6.875	1.00	0.00	C
ATOM	7357	C	LEU	771	19.959	40.864	7.557	1.00	0.00	C
ATOM	7358	O	LEU	771	20.695	41.584	8.215	1.00	0.00	O
ATOM	7359	N	LEU	772	18.879	40.284	8.092	1.00	0.00	N
ATOM	7360	HN	LEU	772	18.370	39.593	7.541	1.00	0.00	H
ATOM	7361	CA	LEU	772	18.409	40.597	9.411	1.00	0.00	C
ATOM	7362	CB	LEU	772	17.246	39.657	9.779	1.00	0.00	C
ATOM	7363	CG	LEU	772	16.633	39.852	11.173	1.00	0.00	C
ATOM	7364	CD1	LEU	772	17.571	39.384	12.297	1.00	0.00	C
ATOM	7365	CD2	LEU	772	16.144	41.295	11.358	1.00	0.00	C
ATOM	7366	C	LEU	772	19.540	40.341	10.337	1.00	0.00	C
ATOM	7367	O	LEU	772	19.683	41.004	11.358	1.00	0.00	O
ATOM	7368	N	ALA	773	20.365	39.337	10.035	1.00	0.00	N
ATOM	7369	HN	ALA	773	20.203	38.741	9.223	1.00	0.00	H
ATOM	7370	CA	ALA	773	21.485	39.133	10.897	1.00	0.00	C
ATOM	7371	CB	ALA	773	22.304	37.890	10.513	1.00	0.00	C
ATOM	7372	C	ALA	773	22.409	40.317	10.809	1.00	0.00	C
ATOM	7373	O	ALA	773	22.827	40.862	11.829	1.00	0.00	O
ATOM	7374	N	ILE	774	22.729	40.767	9.577	1.00	0.00	N
ATOM	7375	HN	ILE	774	22.290	40.343	8.759	1.00	0.00	H
ATOM	7376	CA	ILE	774	23.677	41.833	9.397	1.00	0.00	C
ATOM	7377	CB	ILE	774	24.133	42.106	7.987	1.00	0.00	C
ATOM	7378	CG1	ILE	774	22.983	42.527	7.066	1.00	0.00	C
ATOM	7379	CG2	ILE	774	24.945	40.905	7.508	1.00	0.00	C
ATOM	7380	CD1	ILE	774	23.448	43.080	5.723	1.00	0.00	C
ATOM	7381	C	ILE	774	23.219	43.149	9.939	1.00	0.00	C
ATOM	7382	O	ILE	774	23.992	43.797	10.638	1.00	0.00	O
ATOM	7383	N	VAL	775	21.979	43.598	9.658	1.00	0.00	N
ATOM	7384	HN	VAL	775	21.309	43.026	9.144	1.00	0.00	H
ATOM	7385	CA	VAL	775	21.643	44.919	10.115	1.00	0.00	C
ATOM	7386	CB	VAL	775	20.309	45.424	9.656	1.00	0.00	C
ATOM	7387	CG1	VAL	775	19.980	46.702	10.447	1.00	0.00	C
ATOM	7388	CG2	VAL	775	20.401	45.677	8.142	1.00	0.00	C
ATOM	7389	C	VAL	775	21.726	44.980	11.601	1.00	0.00	C
ATOM	7390	O	VAL	775	22.343	45.904	12.118	1.00	0.00	O
ATOM	7391	N	PRO	776	21.173	44.068	12.337	1.00	0.00	N
ATOM	7392	CA	PRO	776	21.388	44.191	13.745	1.00	0.00	C
ATOM	7393	CD	PRO	776	19.795	43.696	12.082	1.00	0.00	C
ATOM	7394	CB	PRO	776	20.428	43.201	14.391	1.00	0.00	C
ATOM	7395	CG	PRO	776	19.210	43.290	13.450	1.00	0.00	C
ATOM	7396	C	PRO	776	22.825	44.148	14.154	1.00	0.00	C
ATOM	7397	O	PRO	776	23.178	44.880	15.071	1.00	0.00	O

ATOM	7398	N	ILE	777	23.682	43.348	13.500	1.00	0.00	N
ATOM	7399	HN	ILE	777	23.363	42.770	12.722	1.00	0.00	H
ATOM	7400	CA	ILE	777	25.055	43.321	13.916	1.00	0.00	C
ATOM	7401	CB	ILE	777	25.821	42.183	13.302	1.00	0.00	C
ATOM	7402	CG1	ILE	777	27.106	41.933	14.089	1.00	0.00	C
ATOM	7403	CG2	ILE	777	26.066	42.451	11.810	1.00	0.00	C
ATOM	7404	CD1	ILE	777	27.724	40.593	13.721	1.00	0.00	C
ATOM	7405	C	ILE	777	25.712	44.631	13.592	1.00	0.00	C
ATOM	7406	O	ILE	777	26.429	45.195	14.415	1.00	0.00	O
ATOM	7407	N	ILE	778	25.479	45.155	12.375	1.00	0.00	N
ATOM	7408	HN	ILE	778	24.870	44.647	11.734	1.00	0.00	H
ATOM	7409	CA	ILE	778	26.049	46.396	11.940	1.00	0.00	C
ATOM	7410	CB	ILE	778	25.788	46.589	10.465	1.00	0.00	C
ATOM	7411	CG1	ILE	778	26.387	47.884	9.925	1.00	0.00	C
ATOM	7412	CG2	ILE	778	24.279	46.485	10.214	1.00	0.00	C
ATOM	7413	CD1	ILE	778	25.618	49.138	10.329	1.00	0.00	C
ATOM	7414	C	ILE	778	25.491	47.515	12.778	1.00	0.00	C
ATOM	7415	O	ILE	778	26.225	48.398	13.216	1.00	0.00	O
ATOM	7416	N	ALA	779	24.171	47.507	13.034	1.00	0.00	N
ATOM	7417	HN	ALA	779	23.600	46.749	12.659	1.00	0.00	H
ATOM	7418	CA	ALA	779	23.538	48.531	13.819	1.00	0.00	C
ATOM	7419	CB	ALA	779	22.019	48.328	13.946	1.00	0.00	C
ATOM	7420	C	ALA	779	24.116	48.466	15.195	1.00	0.00	C
ATOM	7421	O	ALA	779	24.461	49.489	15.787	1.00	0.00	O
ATOM	7422	N	ILE	780	24.282	47.236	15.717	1.00	0.00	N
ATOM	7423	HN	ILE	780	24.017	46.417	15.170	1.00	0.00	H
ATOM	7424	CA	ILE	780	24.825	47.063	17.029	1.00	0.00	C
ATOM	7425	CB	ILE	780	24.963	45.634	17.483	1.00	0.00	C
ATOM	7426	CG1	ILE	780	23.582	45.016	17.767	1.00	0.00	C
ATOM	7427	CG2	ILE	780	25.895	45.615	18.707	1.00	0.00	C
ATOM	7428	CD1	ILE	780	23.605	43.495	17.912	1.00	0.00	C
ATOM	7429	C	ILE	780	26.178	47.678	17.014	1.00	0.00	C
ATOM	7430	O	ILE	780	26.631	48.202	18.026	1.00	0.00	O
ATOM	7431	N	ALA	781	26.875	47.607	15.867	1.00	0.00	N
ATOM	7432	HN	ALA	781	26.470	47.146	15.052	1.00	0.00	H
ATOM	7433	CA	ALA	781	28.184	48.177	15.789	1.00	0.00	C
ATOM	7434	CB	ALA	781	28.815	48.014	14.397	1.00	0.00	C
ATOM	7435	C	ALA	781	28.088	49.642	16.073	1.00	0.00	C
ATOM	7436	O	ALA	781	28.864	50.152	16.877	1.00	0.00	O
ATOM	7437	N	GLY	782	27.090	50.343	15.491	1.00	0.00	N
ATOM	7438	HN	GLY	782	26.391	49.855	14.931	1.00	0.00	H
ATOM	7439	CA	GLY	782	27.003	51.773	15.653	1.00	0.00	C
ATOM	7440	C	GLY	782	26.959	52.078	17.119	1.00	0.00	C
ATOM	7441	O	GLY	782	27.678	52.956	17.595	1.00	0.00	O
ATOM	7442	N	VAL	783	26.121	51.349	17.878	1.00	0.00	N
ATOM	7443	HN	VAL	783	25.540	50.627	17.452	1.00	0.00	H
ATOM	7444	CA	VAL	783	26.049	51.593	19.290	1.00	0.00	C
ATOM	7445	CB	VAL	783	24.873	50.929	19.955	1.00	0.00	C
ATOM	7446	CG1	VAL	783	25.039	49.403	19.905	1.00	0.00	C
ATOM	7447	CG2	VAL	783	24.754	51.483	21.383	1.00	0.00	C
ATOM	7448	C	VAL	783	27.309	51.142	20.000	1.00	0.00	C
ATOM	7449	O	VAL	783	27.873	51.892	20.794	1.00	0.00	O
ATOM	7450	N	VAL	784	27.813	49.920	19.714	1.00	0.00	N
ATOM	7451	HN	VAL	784	27.385	49.381	18.962	1.00	0.00	H
ATOM	7452	CA	VAL	784	28.933	49.343	20.428	1.00	0.00	C
ATOM	7453	CB	VAL	784	29.249	47.943	19.982	1.00	0.00	C
ATOM	7454	CG1	VAL	784	29.671	47.980	18.505	1.00	0.00	C
ATOM	7455	CG2	VAL	784	30.320	47.354	20.917	1.00	0.00	C
ATOM	7456	C	VAL	784	30.165	50.170	20.242	1.00	0.00	C
ATOM	7457	O	VAL	784	30.930	50.371	21.186	1.00	0.00	O
ATOM	7458	N	GLU	785	30.404	50.661	19.014	1.00	0.00	N
ATOM	7459	HN	GLU	785	29.760	50.457	18.250	1.00	0.00	H
ATOM	7460	CA	GLU	785	31.560	51.469	18.776	1.00	0.00	C
ATOM	7461	CB	GLU	785	31.636	51.977	17.336	1.00	0.00	C
ATOM	7462	CG	GLU	785	32.864	52.846	17.084	1.00	0.00	C
ATOM	7463	CD	GLU	785	32.546	53.684	15.861	1.00	0.00	C
ATOM	7464	OE1	GLU	785	31.649	54.561	15.981	1.00	0.00	O
ATOM	7465	OE2	GLU	785	33.177	53.459	14.794	1.00	0.00	O
ATOM	7466	C	GLU	785	31.412	52.679	19.628	1.00	0.00	C
ATOM	7467	O	GLU	785	32.340	53.079	20.323	1.00	0.00	O
ATOM	7468	N	MET	786	30.203	53.260	19.645	1.00	0.00	N
ATOM	7469	HN	MET	786	29.439	52.854	19.106	1.00	0.00	H
ATOM	7470	CA	MET	786	29.978	54.445	20.414	1.00	0.00	C
ATOM	7471	CB	MET	786	28.506	54.899	20.392	1.00	0.00	C

ATOM	7472	CG	MET	786	28.093	55.709	21.629	1.00	0.00	C
ATOM	7473	SD	MET	786	27.550	54.682	23.037	1.00	0.00	S
ATOM	7474	CE	MET	786	27.961	55.877	24.339	1.00	0.00	C
ATOM	7475	C	MET	786	30.314	54.143	21.838	1.00	0.00	C
ATOM	7476	O	MET	786	30.963	54.950	22.498	1.00	0.00	O
ATOM	7477	N	LYS	787	29.904	52.962	22.340	1.00	0.00	N
ATOM	7478	HN	LYS	787	29.457	52.288	21.718	1.00	0.00	H
ATOM	7479	CA	LYS	787	30.079	52.623	23.728	1.00	0.00	C
ATOM	7480	CB	LYS	787	29.696	51.164	24.031	1.00	0.00	C
ATOM	7481	CG	LYS	787	29.973	50.768	25.485	1.00	0.00	C
ATOM	7482	CD	LYS	787	29.619	49.319	25.828	1.00	0.00	C
ATOM	7483	CE	LYS	787	28.344	48.808	25.163	1.00	0.00	C
ATOM	7484	NZ	LYS	787	28.191	47.363	25.435	1.00	0.00	N
ATOM	7485	HZ1	LYS	787	27.339	47.021	24.991	1.00	0.00	H
ATOM	7486	HZ2	LYS	787	28.216	47.154	26.433	1.00	0.00	H
ATOM	7487	HZ3	LYS	787	29.013	46.829	25.154	1.00	0.00	H
ATOM	7488	C	LYS	787	31.534	52.666	24.115	1.00	0.00	C
ATOM	7489	O	LYS	787	31.901	53.359	25.061	1.00	0.00	O
ATOM	7490	N	MET	788	32.403	51.928	23.389	1.00	0.00	N
ATOM	7491	HN	MET	788	32.064	51.417	22.574	1.00	0.00	H
ATOM	7492	CA	MET	788	33.800	51.848	23.743	1.00	0.00	C
ATOM	7493	CB	MET	788	34.609	50.828	22.921	1.00	0.00	C
ATOM	7494	CG	MET	788	36.086	50.782	23.330	1.00	0.00	C
ATOM	7495	SD	MET	788	36.400	50.150	25.008	1.00	0.00	S
ATOM	7496	CE	MET	788	35.984	48.422	24.639	1.00	0.00	C
ATOM	7497	C	MET	788	34.437	53.185	23.572	1.00	0.00	C
ATOM	7498	O	MET	788	35.302	53.571	24.357	1.00	0.00	O
ATOM	7499	N	LEU	789	34.023	53.928	22.530	1.00	0.00	N
ATOM	7500	HN	LEU	789	33.318	53.553	21.895	1.00	0.00	H
ATOM	7501	CA	LEU	789	34.555	55.237	22.297	1.00	0.00	C
ATOM	7502	CB	LEU	789	33.986	55.927	21.051	1.00	0.00	C
ATOM	7503	CG	LEU	789	34.718	55.544	19.754	1.00	0.00	C
ATOM	7504	CD1	LEU	789	34.776	54.028	19.538	1.00	0.00	C
ATOM	7505	CD2	LEU	789	34.109	56.288	18.559	1.00	0.00	C
ATOM	7506	C	LEU	789	34.224	56.068	23.484	1.00	0.00	C
ATOM	7507	O	LEU	789	34.994	56.947	23.862	1.00	0.00	O
ATOM	7508	N	SER	790	33.046	55.825	24.081	1.00	0.00	N
ATOM	7509	HN	SER	790	32.439	55.103	23.694	1.00	0.00	H
ATOM	7510	CA	SER	790	32.612	56.542	25.240	1.00	0.00	C
ATOM	7511	CB	SER	790	31.196	56.127	25.672	1.00	0.00	C
ATOM	7512	OG	SER	790	30.802	56.860	26.820	1.00	0.00	O
ATOM	7513	HG	SER	790	29.927	56.604	27.087	1.00	0.00	H
ATOM	7514	C	SER	790	33.537	56.247	26.384	1.00	0.00	C
ATOM	7515	O	SER	790	33.960	57.158	27.092	1.00	0.00	O
ATOM	7516	N	GLY	791	33.903	54.965	26.583	1.00	0.00	N
ATOM	7517	HN	GLY	791	33.610	54.241	25.927	1.00	0.00	H
ATOM	7518	CA	GLY	791	34.706	54.623	27.720	1.00	0.00	C
ATOM	7519	C	GLY	791	36.014	55.341	27.641	1.00	0.00	C
ATOM	7520	O	GLY	791	36.484	55.894	28.632	1.00	0.00	O
ATOM	7521	N	GLN	792	36.647	55.338	26.456	1.00	0.00	N
ATOM	7522	HN	GLN	792	36.221	54.866	25.659	1.00	0.00	H
ATOM	7523	CA	GLN	792	37.912	55.989	26.298	1.00	0.00	C
ATOM	7524	CB	GLN	792	38.544	55.705	24.929	1.00	0.00	C
ATOM	7525	CG	GLN	792	39.906	56.370	24.752	1.00	0.00	C
ATOM	7526	CD	GLN	792	40.891	55.634	25.649	1.00	0.00	C
ATOM	7527	OE1	GLN	792	41.100	54.430	25.511	1.00	0.00	O
ATOM	7528	NE2	GLN	792	41.508	56.377	26.607	1.00	0.00	N
ATOM	7529	1HE2	GLN	792	42.168	55.884	27.208	1.00	0.00	H
ATOM	7530	2HE2	GLN	792	41.335	57.376	26.721	1.00	0.00	H
ATOM	7531	C	GLN	792	37.732	57.476	26.417	1.00	0.00	C
ATOM	7532	O	GLN	792	38.542	58.147	27.049	1.00	0.00	O
ATOM	7533	N	ALA	793	36.658	58.032	25.816	1.00	0.00	N
ATOM	7534	HN	ALA	793	35.982	57.427	25.349	1.00	0.00	H
ATOM	7535	CA	ALA	793	36.441	59.458	25.817	1.00	0.00	C
ATOM	7536	CB	ALA	793	35.163	59.859	25.059	1.00	0.00	C
ATOM	7537	C	ALA	793	36.267	59.921	27.231	1.00	0.00	C
ATOM	7538	O	ALA	793	36.849	60.927	27.627	1.00	0.00	O
ATOM	7539	N	LEU	794	35.456	59.196	28.027	1.00	0.00	N
ATOM	7540	HN	LEU	794	35.038	58.343	27.657	1.00	0.00	H
ATOM	7541	CA	LEU	794	35.160	59.583	29.379	1.00	0.00	C
ATOM	7542	CB	LEU	794	34.046	58.710	29.996	1.00	0.00	C
ATOM	7543	CG	LEU	794	33.488	59.182	31.358	1.00	0.00	C
ATOM	7544	CD1	LEU	794	34.529	59.105	32.485	1.00	0.00	C
ATOM	7545	CD2	LEU	794	32.829	60.566	31.239	1.00	0.00	C

ATOM	7546	C	LEU	794	36.386	59.449	30.230	1.00	0.00	C
ATOM	7547	O	LEU	794	36.715	60.356	30.991	1.00	0.00	O
ATOM	7548	N	LYS	795	37.109	58.317	30.110	1.00	0.00	N
ATOM	7549	HN	LYS	795	36.855	57.629	29.401	1.00	0.00	H
ATOM	7550	CA	LYS	795	38.232	58.070	30.968	1.00	0.00	C
ATOM	7551	CB	LYS	795	38.912	56.714	30.723	1.00	0.00	C
ATOM	7552	CG	LYS	795	39.569	56.605	29.349	1.00	0.00	C
ATOM	7553	CD	LYS	795	40.630	55.507	29.274	1.00	0.00	C
ATOM	7554	CE	LYS	795	41.929	55.894	29.984	1.00	0.00	C
ATOM	7555	NZ	LYS	795	42.944	54.836	29.811	1.00	0.00	N
ATOM	7556	HZ1	LYS	795	43.810	55.094	30.284	1.00	0.00	H
ATOM	7557	HZ2	LYS	795	43.100	54.616	28.827	1.00	0.00	H
ATOM	7558	HZ3	LYS	795	42.600	53.926	30.117	1.00	0.00	H
ATOM	7559	C	LYS	795	39.266	59.124	30.735	1.00	0.00	C
ATOM	7560	O	LYS	795	39.832	59.653	31.688	1.00	0.00	O
ATOM	7561	N	ASP	796	39.548	59.451	29.459	1.00	0.00	N
ATOM	7562	HN	ASP	796	39.043	58.994	28.699	1.00	0.00	H
ATOM	7563	CA	ASP	796	40.550	60.434	29.153	1.00	0.00	C
ATOM	7564	CB	ASP	796	40.892	60.527	27.659	1.00	0.00	C
ATOM	7565	CG	ASP	796	42.261	61.187	27.561	1.00	0.00	C
ATOM	7566	OD1	ASP	796	42.336	62.443	27.620	1.00	0.00	O
ATOM	7567	OD2	ASP	796	43.257	60.427	27.426	1.00	0.00	O
ATOM	7568	C	ASP	796	40.059	61.752	29.613	1.00	0.00	C
ATOM	7569	O	ASP	796	40.831	62.583	30.084	1.00	0.00	O
ATOM	7570	N	LYS	797	38.744	61.969	29.503	1.00	0.00	N
ATOM	7571	HN	LYS	797	38.137	61.248	29.112	1.00	0.00	H
ATOM	7572	CA	LYS	797	38.195	63.207	29.933	1.00	0.00	C
ATOM	7573	CB	LYS	797	36.679	63.262	29.764	1.00	0.00	C
ATOM	7574	CG	LYS	797	36.118	64.663	29.949	1.00	0.00	C
ATOM	7575	CD	LYS	797	34.711	64.795	29.377	1.00	0.00	C
ATOM	7576	CE	LYS	797	34.633	64.428	27.892	1.00	0.00	C
ATOM	7577	NZ	LYS	797	33.223	64.241	27.485	1.00	0.00	N
ATOM	7578	HZ1	LYS	797	33.171	63.997	26.496	1.00	0.00	H
ATOM	7579	HZ2	LYS	797	32.651	65.056	27.707	1.00	0.00	H
ATOM	7580	HZ3	LYS	797	32.744	63.558	28.072	1.00	0.00	H
ATOM	7581	C	LYS	797	38.524	63.275	31.389	1.00	0.00	C
ATOM	7582	O	LYS	797	38.652	64.366	31.929	1.00	0.00	O
ATOM	7583	N	LYS	798	38.598	62.105	32.066	1.00	0.00	N
ATOM	7584	HN	LYS	798	38.401	61.246	31.552	1.00	0.00	H
ATOM	7585	CA	LYS	798	38.936	61.989	33.465	1.00	0.00	C
ATOM	7586	CB	LYS	798	38.645	60.583	34.019	1.00	0.00	C
ATOM	7587	CG	LYS	798	37.151	60.254	34.035	1.00	0.00	C
ATOM	7588	CD	LYS	798	36.324	61.212	34.896	1.00	0.00	C
ATOM	7589	CE	LYS	798	34.813	61.022	34.751	1.00	0.00	C
ATOM	7590	NZ	LYS	798	34.097	61.987	35.616	1.00	0.00	N
ATOM	7591	HZ1	LYS	798	33.090	61.860	35.519	1.00	0.00	H
ATOM	7592	HZ2	LYS	798	34.381	62.949	35.432	1.00	0.00	H
ATOM	7593	HZ3	LYS	798	34.399	61.926	36.588	1.00	0.00	H
ATOM	7594	C	LYS	798	40.388	62.302	33.762	1.00	0.00	C
ATOM	7595	O	LYS	798	40.684	63.086	34.658	1.00	0.00	O
ATOM	7596	N	GLU	799	41.354	61.710	33.031	1.00	0.00	N
ATOM	7597	HN	GLU	799	41.105	61.102	32.251	1.00	0.00	H
ATOM	7598	CA	GLU	799	42.741	61.940	33.357	1.00	0.00	C
ATOM	7599	CB	GLU	799	43.664	61.145	32.418	1.00	0.00	C
ATOM	7600	CG	GLU	799	43.485	59.629	32.548	1.00	0.00	C
ATOM	7601	CD	GLU	799	44.022	58.966	31.285	1.00	0.00	C
ATOM	7602	OE1	GLU	799	44.408	59.710	30.344	1.00	0.00	O
ATOM	7603	OE2	GLU	799	44.043	57.707	31.239	1.00	0.00	O
ATOM	7604	C	GLU	799	42.999	63.394	33.133	1.00	0.00	C
ATOM	7605	O	GLU	799	43.566	64.094	33.970	1.00	0.00	O
ATOM	7606	N	LEU	800	42.506	63.864	31.980	1.00	0.00	N
ATOM	7607	HN	LEU	800	42.034	63.176	31.394	1.00	0.00	H
ATOM	7608	CA	LEU	800	42.547	65.192	31.453	1.00	0.00	C
ATOM	7609	CB	LEU	800	41.747	65.169	30.134	1.00	0.00	C
ATOM	7610	CG	LEU	800	41.360	66.507	29.492	1.00	0.00	C
ATOM	7611	CD1	LEU	800	40.237	67.218	30.266	1.00	0.00	C
ATOM	7612	CD2	LEU	800	42.591	67.385	29.260	1.00	0.00	C
ATOM	7613	C	LEU	800	41.848	66.059	32.430	1.00	0.00	C
ATOM	7614	O	LEU	800	42.305	67.162	32.706	1.00	0.00	O
ATOM	7615	N	GLU	801	40.715	65.581	32.974	1.00	0.00	N
ATOM	7616	HN	GLU	801	40.397	64.644	32.726	1.00	0.00	H
ATOM	7617	CA	GLU	801	39.947	66.362	33.894	1.00	0.00	C
ATOM	7618	CB	GLU	801	38.542	65.827	34.240	1.00	0.00	C
ATOM	7619	CG	GLU	801	38.489	64.627	35.179	1.00	0.00	C

ATOM	7620	CD	GLU	801	37.023	64.270	35.370	1.00	0.00	C
ATOM	7621	OE1	GLU	801	36.220	64.569	34.446	1.00	0.00	O
ATOM	7622	OE2	GLU	801	36.687	63.690	36.437	1.00	0.00	O
ATOM	7623	C	GLU	801	40.743	66.486	35.133	1.00	0.00	C
ATOM	7624	O	GLU	801	40.586	67.445	35.879	1.00	0.00	O
ATOM	7625	N	GLY	802	41.599	65.493	35.419	1.00	0.00	N
ATOM	7626	HN	GLY	802	41.687	64.672	34.820	1.00	0.00	H
ATOM	7627	CA	GLY	802	42.376	65.644	36.599	1.00	0.00	C
ATOM	7628	C	GLY	802	43.204	66.871	36.431	1.00	0.00	C
ATOM	7629	O	GLY	802	43.173	67.759	37.278	1.00	0.00	O
ATOM	7630	N	SER	803	43.925	66.963	35.299	1.00	0.00	N
ATOM	7631	HN	SER	803	43.850	66.215	34.609	1.00	0.00	H
ATOM	7632	CA	SER	803	44.793	68.068	35.023	1.00	0.00	C
ATOM	7633	CB	SER	803	45.610	67.860	33.738	1.00	0.00	C
ATOM	7634	OG	SER	803	46.438	66.714	33.870	1.00	0.00	O
ATOM	7635	HG	SER	803	46.943	66.585	33.076	1.00	0.00	H
ATOM	7636	C	SER	803	44.004	69.333	34.847	1.00	0.00	C
ATOM	7637	O	SER	803	44.151	70.271	35.622	1.00	0.00	O
ATOM	7638	N	GLY	804	43.099	69.362	33.850	1.00	0.00	N
ATOM	7639	HN	GLY	804	42.936	68.494	33.339	1.00	0.00	H
ATOM	7640	CA	GLY	804	42.345	70.516	33.448	1.00	0.00	C
ATOM	7641	C	GLY	804	41.512	70.994	34.563	1.00	0.00	C
ATOM	7642	O	GLY	804	41.317	72.199	34.699	1.00	0.00	O
ATOM	7643	N	LYS	805	40.962	70.074	35.368	1.00	0.00	N
ATOM	7644	HN	LYS	805	41.108	69.075	35.224	1.00	0.00	H
ATOM	7645	CA	LYS	805	40.164	70.571	36.433	1.00	0.00	C
ATOM	7646	CB	LYS	805	39.510	69.503	37.325	1.00	0.00	C
ATOM	7647	CG	LYS	805	38.329	68.792	36.660	1.00	0.00	C
ATOM	7648	CD	LYS	805	37.861	67.547	37.415	1.00	0.00	C
ATOM	7649	CE	LYS	805	36.881	67.851	38.550	1.00	0.00	C
ATOM	7650	NZ	LYS	805	36.484	66.595	39.223	1.00	0.00	N
ATOM	7651	HZ1	LYS	805	35.831	66.798	39.980	1.00	0.00	H
ATOM	7652	HZ2	LYS	805	37.291	66.062	39.547	1.00	0.00	H
ATOM	7653	HZ3	LYS	805	36.109	65.911	38.566	1.00	0.00	H
ATOM	7654	C	LYS	805	41.092	71.370	37.287	1.00	0.00	C
ATOM	7655	O	LYS	805	40.691	72.397	37.827	1.00	0.00	O
ATOM	7656	N	ILE	806	42.357	70.912	37.420	1.00	0.00	N
ATOM	7657	HN	ILE	806	42.616	70.039	36.960	1.00	0.00	H
ATOM	7658	CA	ILE	806	43.347	71.613	38.186	1.00	0.00	C
ATOM	7659	CB	ILE	806	44.691	70.958	38.327	1.00	0.00	C
ATOM	7660	CG1	ILE	806	44.625	69.508	38.777	1.00	0.00	C
ATOM	7661	CG2	ILE	806	45.431	71.769	39.396	1.00	0.00	C
ATOM	7662	CD1	ILE	806	45.974	68.806	38.627	1.00	0.00	C
ATOM	7663	C	ILE	806	43.688	72.905	37.525	1.00	0.00	C
ATOM	7664	O	ILE	806	43.904	73.921	38.177	1.00	0.00	O
ATOM	7665	N	ALA	807	43.814	72.900	36.195	1.00	0.00	N
ATOM	7666	HN	ALA	807	43.622	72.055	35.658	1.00	0.00	H
ATOM	7667	CA	ALA	807	44.224	74.104	35.539	1.00	0.00	C
ATOM	7668	CB	ALA	807	44.349	73.950	34.014	1.00	0.00	C
ATOM	7669	C	ALA	807	43.148	75.096	35.806	1.00	0.00	C
ATOM	7670	O	ALA	807	43.410	76.288	35.952	1.00	0.00	O
ATOM	7671	N	THR	808	41.892	74.611	35.820	1.00	0.00	N
ATOM	7672	HN	THR	808	41.745	73.621	35.622	1.00	0.00	H
ATOM	7673	CA	THR	808	40.756	75.433	36.102	1.00	0.00	C
ATOM	7674	CB	THR	808	39.446	74.747	35.859	1.00	0.00	C
ATOM	7675	OG1	THR	808	39.357	74.335	34.503	1.00	0.00	O
ATOM	7676	HG1	THR	808	38.527	73.900	34.349	1.00	0.00	H
ATOM	7677	CG2	THR	808	38.312	75.735	36.184	1.00	0.00	C
ATOM	7678	C	THR	808	40.815	75.805	37.526	1.00	0.00	C
ATOM	7679	O	THR	808	40.416	76.908	37.884	1.00	0.00	O
ATOM	7680	N	GLU	809	41.309	74.889	38.382	1.00	0.00	N
ATOM	7681	HN	GLU	809	41.658	73.985	38.063	1.00	0.00	H
ATOM	7682	CA	GLU	809	41.316	75.254	39.753	1.00	0.00	C
ATOM	7683	CB	GLU	809	41.797	74.174	40.756	1.00	0.00	C
ATOM	7684	CG	GLU	809	43.304	73.925	40.843	1.00	0.00	C
ATOM	7685	CD	GLU	809	43.553	72.906	41.951	1.00	0.00	C
ATOM	7686	OE1	GLU	809	42.590	72.589	42.701	1.00	0.00	O
ATOM	7687	OE2	GLU	809	44.715	72.431	42.062	1.00	0.00	O
ATOM	7688	C	GLU	809	42.178	76.458	39.876	1.00	0.00	C
ATOM	7689	O	GLU	809	41.771	77.416	40.521	1.00	0.00	O
ATOM	7690	N	ALA	810	43.357	76.469	39.224	1.00	0.00	N
ATOM	7691	HN	ALA	810	43.647	75.666	38.666	1.00	0.00	H
ATOM	7692	CA	ALA	810	44.199	77.625	39.325	1.00	0.00	C
ATOM	7693	CB	ALA	810	45.612	77.377	38.767	1.00	0.00	C



ATOM	7694	C	ALA	810	43.628	78.828	38.626	1.00	0.00	C
ATOM	7695	O	ALA	810	43.375	79.850	39.252	1.00	0.00	O
ATOM	7696	N	ILE	811	43.305	78.738	37.325	1.00	0.00	N
ATOM	7697	HN	ILE	811	43.349	77.844	36.836	1.00	0.00	H
ATOM	7698	CA	ILE	811	42.895	79.934	36.640	1.00	0.00	C
ATOM	7699	CB	ILE	811	42.674	79.740	35.174	1.00	0.00	C
ATOM	7700	CG1	ILE	811	41.515	78.767	34.939	1.00	0.00	C
ATOM	7701	CG2	ILE	811	44.007	79.299	34.544	1.00	0.00	C
ATOM	7702	CD1	ILE	811	40.996	78.823	33.511	1.00	0.00	C
ATOM	7703	C	ILE	811	41.607	80.423	37.236	1.00	0.00	C
ATOM	7704	O	ILE	811	41.417	81.624	37.416	1.00	0.00	O
ATOM	7705	N	GLU	812	40.681	79.497	37.553	1.00	0.00	N
ATOM	7706	HN	GLU	812	40.893	78.511	37.399	1.00	0.00	H
ATOM	7707	CA	GLU	812	39.405	79.857	38.101	1.00	0.00	C
ATOM	7708	CB	GLU	812	38.395	78.709	38.259	1.00	0.00	C
ATOM	7709	CG	GLU	812	37.024	79.195	38.738	1.00	0.00	C
ATOM	7710	CD	GLU	812	36.054	78.024	38.704	1.00	0.00	C
ATOM	7711	OE1	GLU	812	36.064	77.218	39.672	1.00	0.00	O
ATOM	7712	OE2	GLU	812	35.291	77.917	37.706	1.00	0.00	O
ATOM	7713	C	GLU	812	39.636	80.435	39.428	1.00	0.00	C
ATOM	7714	O	GLU	812	38.819	81.194	39.941	1.00	0.00	O
ATOM	7715	N	ASN	813	40.735	80.012	40.055	1.00	0.00	N
ATOM	7716	HN	ASN	813	41.346	79.318	39.625	1.00	0.00	H
ATOM	7717	CA	ASN	813	41.033	80.547	41.328	1.00	0.00	C
ATOM	7718	CB	ASN	813	41.360	79.470	42.375	1.00	0.00	C
ATOM	7719	CG	ASN	813	40.081	78.694	42.676	1.00	0.00	C
ATOM	7720	OD1	ASN	813	39.025	79.270	42.932	1.00	0.00	O
ATOM	7721	ND2	ASN	813	40.179	77.338	42.650	1.00	0.00	N
ATOM	7722	1HD2	ASN	813	41.055	76.860	42.438	1.00	0.00	H
ATOM	7723	2HD2	ASN	813	39.324	76.819	42.851	1.00	0.00	H
ATOM	7724	C	ASN	813	42.227	81.421	41.169	1.00	0.00	C
ATOM	7725	O	ASN	813	43.296	81.068	41.653	1.00	0.00	O
ATOM	7726	N	PHE	814	42.046	82.674	40.664	1.00	0.00	N
ATOM	7727	HN	PHE	814	41.094	82.942	40.416	1.00	0.00	H
ATOM	7728	CA	PHE	814	43.089	83.660	40.448	1.00	0.00	C
ATOM	7729	CB	PHE	814	42.649	84.974	39.757	1.00	0.00	C
ATOM	7730	CG	PHE	814	41.954	85.895	40.703	1.00	0.00	C
ATOM	7731	CD1	PHE	814	42.681	86.753	41.499	1.00	0.00	C
ATOM	7732	CD2	PHE	814	40.583	85.938	40.779	1.00	0.00	C
ATOM	7733	CE1	PHE	814	42.055	87.608	42.371	1.00	0.00	C
ATOM	7734	CE2	PHE	814	39.946	86.792	41.649	1.00	0.00	C
ATOM	7735	CZ	PHE	814	40.683	87.628	42.452	1.00	0.00	C
ATOM	7736	C	PHE	814	43.612	83.995	41.806	1.00	0.00	C
ATOM	7737	O	PHE	814	44.611	84.691	41.969	1.00	0.00	O
ATOM	7738	N	ARG	815	42.886	83.492	42.815	1.00	0.00	N
ATOM	7739	HN	ARG	815	42.042	82.998	42.527	1.00	0.00	H
ATOM	7740	CA	ARG	815	43.097	83.533	44.211	1.00	0.00	C
ATOM	7741	CB	ARG	815	42.190	82.648	45.093	1.00	0.00	C
ATOM	7742	CG	ARG	815	40.724	83.044	45.246	1.00	0.00	C
ATOM	7743	CD	ARG	815	39.784	82.408	44.227	1.00	0.00	C
ATOM	7744	NE	ARG	815	39.845	83.174	42.960	1.00	0.00	N
ATOM	7745	HE	ARG	815	40.598	83.838	42.782	1.00	0.00	H
ATOM	7746	CZ	ARG	815	38.863	82.963	42.040	1.00	0.00	C
ATOM	7747	NH1	ARG	815	37.888	82.039	42.289	1.00	0.00	N
ATOM	7748	1HH1	ARG	815	37.899	81.508	43.160	1.00	0.00	H
ATOM	7749	2HH1	ARG	815	37.153	81.881	41.600	1.00	0.00	H
ATOM	7750	NH2	ARG	815	38.848	83.673	40.877	1.00	0.00	N
ATOM	7751	1HH2	ARG	815	39.576	84.363	40.691	1.00	0.00	H
ATOM	7752	2HH2	ARG	815	38.113	83.515	40.188	1.00	0.00	H
ATOM	7753	C	ARG	815	44.461	82.995	44.526	1.00	0.00	C
ATOM	7754	O	ARG	815	44.776	82.801	45.693	1.00	0.00	O
ATOM	7755	N	THR	816	45.156	82.436	43.532	1.00	0.00	N
ATOM	7756	HN	THR	816	44.668	82.271	42.652	1.00	0.00	H
ATOM	7757	CA	THR	816	46.533	82.050	43.605	1.00	0.00	C
ATOM	7758	CB	THR	816	46.871	81.097	42.505	1.00	0.00	C
ATOM	7759	OG1	THR	816	48.257	80.797	42.529	1.00	0.00	O
ATOM	7760	HG1	THR	816	48.509	80.410	43.359	1.00	0.00	H
ATOM	7761	CG2	THR	816	46.463	81.724	41.161	1.00	0.00	C
ATOM	7762	C	THR	816	47.473	83.210	43.478	1.00	0.00	C
ATOM	7763	O	THR	816	48.341	83.392	44.325	1.00	0.00	O
ATOM	7764	N	VAL	817	47.272	84.095	42.466	1.00	0.00	N
ATOM	7765	HN	VAL	817	46.442	83.972	41.886	1.00	0.00	H
ATOM	7766	CA	VAL	817	48.150	85.196	42.156	1.00	0.00	C
ATOM	7767	CB	VAL	817	47.765	86.017	40.963	1.00	0.00	C

ATOM	7768	CG1	VAL	817	47.583	85.061	39.784	1.00	0.00	C
ATOM	7769	CG2	VAL	817	46.563	86.910	41.284	1.00	0.00	C
ATOM	7770	C	VAL	817	48.073	86.061	43.346	1.00	0.00	C
ATOM	7771	O	VAL	817	48.917	86.925	43.573	1.00	0.00	O
ATOM	7772	N	VAL	818	46.994	85.861	44.115	1.00	0.00	N
ATOM	7773	HN	VAL	818	46.284	85.182	43.841	1.00	0.00	H
ATOM	7774	CA	VAL	818	46.852	86.598	45.303	1.00	0.00	C
ATOM	7775	CB	VAL	818	45.632	86.286	46.126	1.00	0.00	C
ATOM	7776	CG1	VAL	818	45.829	84.987	46.913	1.00	0.00	C
ATOM	7777	CG2	VAL	818	45.369	87.502	47.025	1.00	0.00	C
ATOM	7778	C	VAL	818	48.081	86.379	46.128	1.00	0.00	C
ATOM	7779	O	VAL	818	48.576	87.334	46.713	1.00	0.00	O
ATOM	7780	N	SER	819	48.554	85.121	46.268	1.00	0.00	N
ATOM	7781	HN	SER	819	48.019	84.361	45.848	1.00	0.00	H
ATOM	7782	CA	SER	819	49.763	84.784	46.970	1.00	0.00	C
ATOM	7783	CB	SER	819	49.690	83.365	47.553	1.00	0.00	C
ATOM	7784	OG	SER	819	48.536	83.237	48.369	1.00	0.00	O
ATOM	7785	HG	SER	819	48.491	82.359	48.730	1.00	0.00	H
ATOM	7786	C	SER	819	50.946	84.793	46.035	1.00	0.00	C
ATOM	7787	O	SER	819	52.043	85.214	46.394	1.00	0.00	O
ATOM	7788	N	LEU	820	50.750	84.251	44.815	1.00	0.00	N
ATOM	7789	HN	LEU	820	49.819	83.888	44.612	1.00	0.00	H
ATOM	7790	CA	LEU	820	51.738	84.139	43.773	1.00	0.00	C
ATOM	7791	CB	LEU	820	52.294	85.542	43.420	1.00	0.00	C
ATOM	7792	CG	LEU	820	53.372	85.672	42.323	1.00	0.00	C
ATOM	7793	CD1	LEU	820	53.442	87.126	41.829	1.00	0.00	C
ATOM	7794	CD2	LEU	820	54.765	85.250	42.822	1.00	0.00	C
ATOM	7795	C	LEU	820	52.794	83.160	44.210	1.00	0.00	C
ATOM	7796	O	LEU	820	53.715	82.818	43.470	1.00	0.00	O
ATOM	7797	N	THR	821	52.586	82.583	45.402	1.00	0.00	N
ATOM	7798	HN	THR	821	51.720	82.820	45.886	1.00	0.00	H
ATOM	7799	CA	THR	821	53.466	81.665	46.059	1.00	0.00	C
ATOM	7800	CB	THR	821	53.121	81.453	47.510	1.00	0.00	C
ATOM	7801	OG1	THR	821	51.762	81.068	47.651	1.00	0.00	O
ATOM	7802	HG1	THR	821	51.588	80.266	47.173	1.00	0.00	H
ATOM	7803	CG2	THR	821	53.402	82.752	48.284	1.00	0.00	C
ATOM	7804	C	THR	821	53.592	80.311	45.368	1.00	0.00	C
ATOM	7805	O	THR	821	54.331	79.492	45.905	1.00	0.00	O
ATOM	7806	N	GLN	822	52.689	79.918	44.421	1.00	0.00	N
ATOM	7807	HN	GLN	822	51.893	80.539	44.275	1.00	0.00	H
ATOM	7808	CA	GLN	822	52.726	78.711	43.589	1.00	0.00	C
ATOM	7809	CB	GLN	822	51.351	78.031	43.573	1.00	0.00	C
ATOM	7810	CG	GLN	822	50.268	78.905	42.939	1.00	0.00	C
ATOM	7811	CD	GLN	822	48.953	78.144	42.989	1.00	0.00	C
ATOM	7812	OE1	GLN	822	48.188	78.140	42.025	1.00	0.00	O
ATOM	7813	NE2	GLN	822	48.668	77.498	44.151	1.00	0.00	N
ATOM	7814	1HE2	GLN	822	49.302	77.501	44.950	1.00	0.00	H
ATOM	7815	2HE2	GLN	822	47.786	76.987	44.185	1.00	0.00	H
ATOM	7816	C	GLN	822	53.192	78.790	42.137	1.00	0.00	C
ATOM	7817	O	GLN	822	53.757	77.832	41.607	1.00	0.00	O
ATOM	7818	N	GLU	823	52.871	79.901	41.433	1.00	0.00	N
ATOM	7819	HN	GLU	823	52.447	80.654	41.975	1.00	0.00	H
ATOM	7820	CA	GLU	823	53.043	80.177	40.016	1.00	0.00	C
ATOM	7821	CB	GLU	823	54.070	81.293	39.753	1.00	0.00	C
ATOM	7822	CG	GLU	823	53.752	82.621	40.457	1.00	0.00	C
ATOM	7823	CD	GLU	823	52.353	83.110	40.081	1.00	0.00	C
ATOM	7824	OE1	GLU	823	51.376	82.331	40.242	1.00	0.00	O
ATOM	7825	OE2	GLU	823	52.241	84.289	39.653	1.00	0.00	O
ATOM	7826	C	GLU	823	53.402	78.983	39.161	1.00	0.00	C
ATOM	7827	O	GLU	823	52.620	78.055	38.933	1.00	0.00	O
ATOM	7828	N	GLN	824	54.630	79.014	38.621	1.00	0.00	N
ATOM	7829	HN	GLN	824	55.259	79.786	38.844	1.00	0.00	H
ATOM	7830	CA	GLN	824	55.068	77.978	37.737	1.00	0.00	C
ATOM	7831	CB	GLN	824	56.527	78.157	37.286	1.00	0.00	C
ATOM	7832	CG	GLN	824	56.947	77.168	36.199	1.00	0.00	C
ATOM	7833	CD	GLN	824	56.229	77.566	34.918	1.00	0.00	C
ATOM	7834	OE1	GLN	824	56.456	78.645	34.372	1.00	0.00	O
ATOM	7835	NE2	GLN	824	55.329	76.674	34.425	1.00	0.00	N
ATOM	7836	1HE2	GLN	824	54.848	76.941	33.566	1.00	0.00	H
ATOM	7837	2HE2	GLN	824	55.141	75.780	34.878	1.00	0.00	H
ATOM	7838	C	GLN	824	54.972	76.687	38.466	1.00	0.00	C
ATOM	7839	O	GLN	824	54.582	75.681	37.872	1.00	0.00	O
ATOM	7840	N	LYS	825	55.264	76.712	39.784	1.00	0.00	N
ATOM	7841	HN	LYS	825	55.504	77.602	40.219	1.00	0.00	H

ATOM	7842	CA	LYS	825	55.247	75.526	40.592	1.00	0.00	C
ATOM	7843	CB	LYS	825	55.509	75.807	42.086	1.00	0.00	C
ATOM	7844	CG	LYS	825	55.475	74.593	43.013	1.00	0.00	C
ATOM	7845	CD	LYS	825	54.080	73.993	43.180	1.00	0.00	C
ATOM	7846	CE	LYS	825	54.004	72.947	44.293	1.00	0.00	C
ATOM	7847	NZ	LYS	825	52.592	72.684	44.646	1.00	0.00	N
ATOM	7848	HZ1	LYS	825	52.541	71.986	45.388	1.00	0.00	H
ATOM	7849	HZ2	LYS	825	52.038	72.417	43.832	1.00	0.00	H
ATOM	7850	HZ3	LYS	825	52.094	73.540	44.891	1.00	0.00	H
ATOM	7851	C	LYS	825	53.904	74.914	40.377	1.00	0.00	C
ATOM	7852	O	LYS	825	53.750	73.693	40.356	1.00	0.00	O
ATOM	7853	N	PHE	826	52.888	75.769	40.190	1.00	0.00	N
ATOM	7854	HN	PHE	826	53.059	76.775	40.197	1.00	0.00	H
ATOM	7855	CA	PHE	826	51.567	75.269	39.981	1.00	0.00	C
ATOM	7856	CB	PHE	826	50.563	76.416	40.157	1.00	0.00	C
ATOM	7857	CG	PHE	826	49.397	75.873	40.900	1.00	0.00	C
ATOM	7858	CD1	PHE	826	49.598	75.385	42.171	1.00	0.00	C
ATOM	7859	CD2	PHE	826	48.139	75.812	40.353	1.00	0.00	C
ATOM	7860	CE1	PHE	826	48.563	74.869	42.909	1.00	0.00	C
ATOM	7861	CE2	PHE	826	47.099	75.301	41.092	1.00	0.00	C
ATOM	7862	CZ	PHE	826	47.305	74.832	42.366	1.00	0.00	C
ATOM	7863	C	PHE	826	51.353	74.576	38.657	1.00	0.00	C
ATOM	7864	O	PHE	826	51.216	73.354	38.612	1.00	0.00	O
ATOM	7865	N	GLU	827	51.472	75.311	37.528	1.00	0.00	N
ATOM	7866	HN	GLU	827	51.779	76.281	37.605	1.00	0.00	H
ATOM	7867	CA	GLU	827	51.180	74.775	36.214	1.00	0.00	C
ATOM	7868	CB	GLU	827	51.411	75.796	35.083	1.00	0.00	C
ATOM	7869	CG	GLU	827	50.463	77.003	35.132	1.00	0.00	C
ATOM	7870	CD	GLU	827	49.078	76.569	34.668	1.00	0.00	C
ATOM	7871	OE1	GLU	827	48.932	75.381	34.282	1.00	0.00	O
ATOM	7872	OE2	GLU	827	48.148	77.420	34.694	1.00	0.00	O
ATOM	7873	C	GLU	827	52.120	73.639	36.035	1.00	0.00	C
ATOM	7874	O	GLU	827	51.871	72.713	35.261	1.00	0.00	O
ATOM	7875	N	HIS	828	53.248	73.719	36.761	1.00	0.00	N
ATOM	7876	HN	HIS	828	53.376	74.526	37.372	1.00	0.00	H
ATOM	7877	CA	HIS	828	54.276	72.729	36.719	1.00	0.00	C
ATOM	7878	ND1	HIS	828	56.570	70.867	38.263	1.00	0.00	N
ATOM	7879	HD1	HIS	828	55.849	70.531	38.902	1.00	0.00	H
ATOM	7880	CG	HIS	828	56.562	72.056	37.568	1.00	0.00	C
ATOM	7881	CB	HIS	828	55.455	73.065	37.645	1.00	0.00	C
ATOM	7882	NE2	HIS	828	58.452	70.923	37.080	1.00	0.00	N
ATOM	7883	HE2	HIS	828	59.355	70.668	36.680	1.00	0.00	H
ATOM	7884	CD2	HIS	828	57.718	72.073	36.850	1.00	0.00	C
ATOM	7885	CE1	HIS	828	57.721	70.229	37.935	1.00	0.00	C
ATOM	7886	C	HIS	828	53.731	71.411	37.160	1.00	0.00	C
ATOM	7887	O	HIS	828	53.979	70.391	36.517	1.00	0.00	O
ATOM	7888	N	MET	829	52.936	71.400	38.247	1.00	0.00	N
ATOM	7889	HN	MET	829	52.704	72.272	38.723	1.00	0.00	H
ATOM	7890	CA	MET	829	52.417	70.153	38.731	1.00	0.00	C
ATOM	7891	CB	MET	829	51.476	70.309	39.936	1.00	0.00	C
ATOM	7892	CG	MET	829	52.183	70.774	41.208	1.00	0.00	C
ATOM	7893	SD	MET	829	51.090	70.950	42.651	1.00	0.00	S
ATOM	7894	CE	MET	829	50.335	72.511	42.116	1.00	0.00	C
ATOM	7895	C	MET	829	51.610	69.574	37.611	1.00	0.00	C
ATOM	7896	O	MET	829	51.581	68.363	37.392	1.00	0.00	O
ATOM	7897	N	TYR	830	50.937	70.450	36.854	1.00	0.00	N
ATOM	7898	HN	TYR	830	51.009	71.446	37.064	1.00	0.00	H
ATOM	7899	CA	TYR	830	50.115	70.025	35.753	1.00	0.00	C
ATOM	7900	CB	TYR	830	49.415	71.153	34.996	1.00	0.00	C
ATOM	7901	CG	TYR	830	48.589	71.928	35.939	1.00	0.00	C
ATOM	7902	CD1	TYR	830	49.218	72.691	36.879	1.00	0.00	C
ATOM	7903	CD2	TYR	830	47.223	71.928	35.883	1.00	0.00	C
ATOM	7904	CE1	TYR	830	48.533	73.459	37.779	1.00	0.00	C
ATOM	7905	CE2	TYR	830	46.534	72.697	36.783	1.00	0.00	C
ATOM	7906	CZ	TYR	830	47.169	73.462	37.722	1.00	0.00	C
ATOM	7907	OH	TYR	830	46.421	74.243	38.622	1.00	0.00	O
ATOM	7908	HH	TYR	830	45.472	74.245	38.582	1.00	0.00	H
ATOM	7909	C	TYR	830	50.972	69.422	34.702	1.00	0.00	C
ATOM	7910	O	TYR	830	50.523	68.539	33.974	1.00	0.00	O
ATOM	7911	N	ALA	831	52.208	69.931	34.546	1.00	0.00	N
ATOM	7912	HN	ALA	831	52.557	70.651	35.178	1.00	0.00	H
ATOM	7913	CA	ALA	831	53.026	69.442	33.474	1.00	0.00	C
ATOM	7914	CB	ALA	831	54.437	70.053	33.466	1.00	0.00	C
ATOM	7915	C	ALA	831	53.175	67.969	33.661	1.00	0.00	C

ATOM	7916	O	ALA	831	53.151	67.203	32.697	1.00	0.00	O
ATOM	7917	N	GLN	832	53.328	67.537	34.922	1.00	0.00	N
ATOM	7918	HN	GLN	832	53.328	68.205	35.693	1.00	0.00	H
ATOM	7919	CA	GLN	832	53.491	66.139	35.187	1.00	0.00	C
ATOM	7920	CB	GLN	832	53.783	65.858	36.668	1.00	0.00	C
ATOM	7921	CG	GLN	832	55.054	66.540	37.168	1.00	0.00	C
ATOM	7922	CD	GLN	832	56.209	66.017	36.331	1.00	0.00	C
ATOM	7923	OE1	GLN	832	56.347	66.359	35.157	1.00	0.00	O
ATOM	7924	NE2	GLN	832	57.062	65.158	36.950	1.00	0.00	N
ATOM	7925	1HE2	GLN	832	56.948	64.875	37.923	1.00	0.00	H
ATOM	7926	2HE2	GLN	832	57.837	64.807	36.388	1.00	0.00	H
ATOM	7927	C	GLN	832	52.238	65.395	34.856	1.00	0.00	C
ATOM	7928	O	GLN	832	52.268	64.346	34.214	1.00	0.00	O
ATOM	7929	N	SER	833	51.087	65.948	35.262	1.00	0.00	N
ATOM	7930	HN	SER	833	51.100	66.871	35.697	1.00	0.00	H
ATOM	7931	CA	SER	833	49.838	65.266	35.096	1.00	0.00	C
ATOM	7932	CB	SER	833	48.657	66.166	35.478	1.00	0.00	C
ATOM	7933	OG	SER	833	48.921	66.782	36.728	1.00	0.00	O
ATOM	7934	HG	SER	833	48.189	67.340	36.965	1.00	0.00	H
ATOM	7935	C	SER	833	49.673	64.967	33.652	1.00	0.00	C
ATOM	7936	O	SER	833	49.486	63.818	33.267	1.00	0.00	O
ATOM	7937	N	LEU	834	49.852	65.987	32.802	1.00	0.00	N
ATOM	7938	HN	LEU	834	50.162	66.892	33.155	1.00	0.00	H
ATOM	7939	CA	LEU	834	49.611	65.814	31.403	1.00	0.00	C
ATOM	7940	CB	LEU	834	49.921	67.066	30.555	1.00	0.00	C
ATOM	7941	CG	LEU	834	48.862	68.190	30.592	1.00	0.00	C
ATOM	7942	CD1	LEU	834	47.569	67.750	29.889	1.00	0.00	C
ATOM	7943	CD2	LEU	834	48.615	68.719	32.012	1.00	0.00	C
ATOM	7944	C	LEU	834	50.461	64.718	30.868	1.00	0.00	C
ATOM	7945	O	LEU	834	49.958	63.901	30.097	1.00	0.00	O
ATOM	7946	N	GLN	835	51.730	64.624	31.318	1.00	0.00	N
ATOM	7947	HN	GLN	835	52.038	65.196	32.104	1.00	0.00	H
ATOM	7948	CA	GLN	835	52.645	63.714	30.684	1.00	0.00	C
ATOM	7949	CB	GLN	835	54.026	63.633	31.358	1.00	0.00	C
ATOM	7950	CG	GLN	835	54.033	62.916	32.707	1.00	0.00	C
ATOM	7951	CD	GLN	835	55.401	63.110	33.343	1.00	0.00	C
ATOM	7952	OE1	GLN	835	56.310	63.670	32.732	1.00	0.00	O
ATOM	7953	NE2	GLN	835	55.554	62.642	34.611	1.00	0.00	N
ATOM	7954	1HE2	GLN	835	56.471	62.772	35.037	1.00	0.00	H
ATOM	7955	2HE2	GLN	835	54.800	62.178	35.118	1.00	0.00	H
ATOM	7956	C	GLN	835	52.081	62.323	30.687	1.00	0.00	C
ATOM	7957	O	GLN	835	52.116	61.647	29.659	1.00	0.00	O
ATOM	7958	N	VAL	836	51.507	61.862	31.815	1.00	0.00	N
ATOM	7959	HN	VAL	836	51.435	62.447	32.647	1.00	0.00	H
ATOM	7960	CA	VAL	836	50.999	60.516	31.805	1.00	0.00	C
ATOM	7961	CB	VAL	836	50.590	60.021	33.167	1.00	0.00	C
ATOM	7962	CG1	VAL	836	50.019	58.600	33.028	1.00	0.00	C
ATOM	7963	CG2	VAL	836	51.804	60.113	34.106	1.00	0.00	C
ATOM	7964	C	VAL	836	49.844	60.374	30.843	1.00	0.00	C
ATOM	7965	O	VAL	836	49.869	59.479	29.998	1.00	0.00	O
ATOM	7966	N	PRO	837	48.840	61.212	30.872	1.00	0.00	N
ATOM	7967	CA	PRO	837	47.804	61.002	29.904	1.00	0.00	C
ATOM	7968	CD	PRO	837	48.239	61.595	32.139	1.00	0.00	C
ATOM	7969	CB	PRO	837	46.629	61.866	30.342	1.00	0.00	C
ATOM	7970	CG	PRO	837	46.739	61.809	31.873	1.00	0.00	C
ATOM	7971	C	PRO	837	48.270	61.204	28.504	1.00	0.00	C
ATOM	7972	O	PRO	837	47.529	60.857	27.586	1.00	0.00	O
ATOM	7973	N	TYR	838	49.453	61.811	28.311	1.00	0.00	N
ATOM	7974	HN	TYR	838	49.999	62.121	29.115	1.00	0.00	H
ATOM	7975	CA	TYR	838	49.955	62.027	26.984	1.00	0.00	C
ATOM	7976	CB	TYR	838	51.168	62.984	27.011	1.00	0.00	C
ATOM	7977	CG	TYR	838	51.569	63.367	25.627	1.00	0.00	C
ATOM	7978	CD1	TYR	838	50.827	64.284	24.917	1.00	0.00	C
ATOM	7979	CD2	TYR	838	52.675	62.810	25.030	1.00	0.00	C
ATOM	7980	CE1	TYR	838	51.186	64.646	23.639	1.00	0.00	C
ATOM	7981	CE2	TYR	838	53.039	63.170	23.753	1.00	0.00	C
ATOM	7982	CZ	TYR	838	52.296	64.090	23.054	1.00	0.00	C
ATOM	7983	OH	TYR	838	52.670	64.458	21.743	1.00	0.00	O
ATOM	7984	HH	TYR	838	53.438	64.073	21.338	1.00	0.00	H
ATOM	7985	C	TYR	838	50.332	60.712	26.362	1.00	0.00	C
ATOM	7986	O	TYR	838	49.921	60.403	25.244	1.00	0.00	O
ATOM	7987	N	ARG	839	51.095	59.868	27.086	1.00	0.00	N
ATOM	7988	HN	ARG	839	51.383	60.105	28.035	1.00	0.00	H
ATOM	7989	CA	ARG	839	51.491	58.624	26.483	1.00	0.00	C

ATOM	7990	CB	ARG	839	52.462	57.795	27.342	1.00	0.00	C
ATOM	7991	CG	ARG	839	53.909	58.289	27.261	1.00	0.00	C
ATOM	7992	CD	ARG	839	54.146	59.659	27.895	1.00	0.00	C
ATOM	7993	NE	ARG	839	54.156	59.464	29.371	1.00	0.00	N
ATOM	7994	HE	ARG	839	53.555	58.759	29.797	1.00	0.00	H
ATOM	7995	CZ	ARG	839	54.970	60.230	30.153	1.00	0.00	C
ATOM	7996	NH1	ARG	839	55.772	61.176	29.585	1.00	0.00	N
ATOM	7997	1HH1	ARG	839	56.381	61.749	30.170	1.00	0.00	H
ATOM	7998	2HH1	ARG	839	55.760	61.314	28.574	1.00	0.00	H
ATOM	7999	NH2	ARG	839	54.986	60.046	31.505	1.00	0.00	N
ATOM	8000	1HH2	ARG	839	55.595	60.619	32.090	1.00	0.00	H
ATOM	8001	2HH2	ARG	839	54.386	59.339	31.930	1.00	0.00	H
ATOM	8002	C	ARG	839	50.265	57.810	26.231	1.00	0.00	C
ATOM	8003	O	ARG	839	50.102	57.199	25.174	1.00	0.00	O
ATOM	8004	N	ASN	840	49.341	57.834	27.200	1.00	0.00	N
ATOM	8005	HN	ASN	840	49.510	58.410	28.025	1.00	0.00	H
ATOM	8006	CA	ASN	840	48.125	57.082	27.123	1.00	0.00	C
ATOM	8007	CB	ASN	840	47.220	57.363	28.335	1.00	0.00	C
ATOM	8008	CG	ASN	840	45.848	56.758	28.085	1.00	0.00	C
ATOM	8009	OD1	ASN	840	44.972	57.405	27.513	1.00	0.00	O
ATOM	8010	ND2	ASN	840	45.654	55.486	28.519	1.00	0.00	N
ATOM	8011	1HD2	ASN	840	44.733	55.080	28.351	1.00	0.00	H
ATOM	8012	2HD2	ASN	840	46.380	54.950	28.993	1.00	0.00	H
ATOM	8013	C	ASN	840	47.373	57.491	25.895	1.00	0.00	C
ATOM	8014	O	ASN	840	46.735	56.658	25.249	1.00	0.00	O
ATOM	8015	N	SER	841	47.424	58.788	25.539	1.00	0.00	N
ATOM	8016	HN	SER	841	48.012	59.436	26.063	1.00	0.00	H
ATOM	8017	CA	SER	841	46.652	59.262	24.422	1.00	0.00	C
ATOM	8018	CB	SER	841	46.722	60.787	24.213	1.00	0.00	C
ATOM	8019	OG	SER	841	47.996	61.167	23.716	1.00	0.00	O
ATOM	8020	HG	SER	841	48.039	62.107	23.587	1.00	0.00	H
ATOM	8021	C	SER	841	47.101	58.612	23.156	1.00	0.00	C
ATOM	8022	O	SER	841	46.276	58.241	22.325	1.00	0.00	O
ATOM	8023	N	LEU	842	48.419	58.421	22.981	1.00	0.00	N
ATOM	8024	HN	LEU	842	49.080	58.661	23.720	1.00	0.00	H
ATOM	8025	CA	LEU	842	48.881	57.874	21.740	1.00	0.00	C
ATOM	8026	CB	LEU	842	50.409	57.702	21.701	1.00	0.00	C
ATOM	8027	CG	LEU	842	51.178	59.031	21.818	1.00	0.00	C
ATOM	8028	CD1	LEU	842	52.697	58.805	21.765	1.00	0.00	C
ATOM	8029	CD2	LEU	842	50.692	60.052	20.777	1.00	0.00	C
ATOM	8030	C	LEU	842	48.269	56.522	21.543	1.00	0.00	C
ATOM	8031	O	LEU	842	47.810	56.196	20.448	1.00	0.00	O
ATOM	8032	N	ARG	843	48.227	55.696	22.604	1.00	0.00	N
ATOM	8033	HN	ARG	843	48.558	56.013	23.515	1.00	0.00	H
ATOM	8034	CA	ARG	843	47.713	54.365	22.444	1.00	0.00	C
ATOM	8035	CB	ARG	843	47.777	53.552	23.749	1.00	0.00	C
ATOM	8036	CG	ARG	843	47.344	52.096	23.576	1.00	0.00	C
ATOM	8037	CD	ARG	843	48.335	51.265	22.757	1.00	0.00	C
ATOM	8038	NE	ARG	843	49.441	50.857	23.668	1.00	0.00	N
ATOM	8039	HE	ARG	843	49.355	51.008	24.673	1.00	0.00	H
ATOM	8040	CZ	ARG	843	50.570	50.281	23.160	1.00	0.00	C
ATOM	8041	NH1	ARG	843	50.701	50.105	21.812	1.00	0.00	N
ATOM	8042	1HH1	ARG	843	49.956	50.409	21.185	1.00	0.00	H
ATOM	8043	2HH1	ARG	843	51.544	49.675	21.433	1.00	0.00	H
ATOM	8044	NH2	ARG	843	51.567	49.875	23.998	1.00	0.00	N
ATOM	8045	1HH2	ARG	843	51.469	50.006	25.005	1.00	0.00	H
ATOM	8046	2HH2	ARG	843	52.410	49.445	23.619	1.00	0.00	H
ATOM	8047	C	ARG	843	46.278	54.424	22.019	1.00	0.00	C
ATOM	8048	O	ARG	843	45.887	53.820	21.021	1.00	0.00	O
ATOM	8049	N	LYS	844	45.466	55.228	22.725	1.00	0.00	N
ATOM	8050	HN	LYS	844	45.861	55.803	23.469	1.00	0.00	H
ATOM	8051	CA	LYS	844	44.057	55.299	22.460	1.00	0.00	C
ATOM	8052	CB	LYS	844	43.313	56.247	23.414	1.00	0.00	C
ATOM	8053	CG	LYS	844	43.802	57.694	23.383	1.00	0.00	C
ATOM	8054	CD	LYS	844	42.868	58.653	24.123	1.00	0.00	C
ATOM	8055	CE	LYS	844	43.431	60.066	24.271	1.00	0.00	C
ATOM	8056	NZ	LYS	844	43.421	60.751	22.961	1.00	0.00	N
ATOM	8057	HZ1	LYS	844	43.797	61.694	23.060	1.00	0.00	H
ATOM	8058	HZ2	LYS	844	42.494	60.751	22.536	1.00	0.00	H
ATOM	8059	HZ3	LYS	844	43.913	60.216	22.245	1.00	0.00	H
ATOM	8060	C	LYS	844	43.863	55.771	21.063	1.00	0.00	C
ATOM	8061	O	LYS	844	42.827	55.499	20.461	1.00	0.00	O
ATOM	8062	N	ALA	845	44.833	56.524	20.516	1.00	0.00	N
ATOM	8063	HN	ALA	845	45.657	56.785	21.057	1.00	0.00	H

ATOM	8064	CA	ALA	845	44.684	56.952	19.156	1.00	0.00	C
ATOM	8065	CB	ALA	845	45.953	57.642	18.638	1.00	0.00	C
ATOM	8066	C	ALA	845	44.548	55.699	18.355	1.00	0.00	C
ATOM	8067	O	ALA	845	43.584	55.511	17.614	1.00	0.00	O
ATOM	8068	N	HIS	846	45.457	54.747	18.606	1.00	0.00	N
ATOM	8069	HN	HIS	846	46.160	54.911	19.326	1.00	0.00	H
ATOM	8070	CA	HIS	846	45.469	53.507	17.893	1.00	0.00	C
ATOM	8071	ND1	HIS	846	45.348	50.253	18.534	1.00	0.00	N
ATOM	8072	HD1	HIS	846	44.673	50.472	19.266	1.00	0.00	H
ATOM	8073	CG	HIS	846	46.302	51.102	18.017	1.00	0.00	C
ATOM	8074	CB	HIS	846	46.485	52.516	18.491	1.00	0.00	C
ATOM	8075	NE2	HIS	846	46.447	49.099	16.986	1.00	0.00	N
ATOM	8076	HE2	HIS	846	46.747	48.345	16.367	1.00	0.00	H
ATOM	8077	CD2	HIS	846	46.964	50.380	17.073	1.00	0.00	C
ATOM	8078	CE1	HIS	846	45.479	49.071	17.883	1.00	0.00	C
ATOM	8079	C	HIS	846	44.133	52.855	18.028	1.00	0.00	C
ATOM	8080	O	HIS	846	43.557	52.404	17.039	1.00	0.00	O
ATOM	8081	N	ILE	847	43.575	52.823	19.250	1.00	0.00	N
ATOM	8082	HN	ILE	847	44.011	53.317	20.028	1.00	0.00	H
ATOM	8083	CA	ILE	847	42.359	52.087	19.450	1.00	0.00	C
ATOM	8084	CB	ILE	847	41.919	52.030	20.894	1.00	0.00	C
ATOM	8085	CG1	ILE	847	40.952	50.856	21.131	1.00	0.00	C
ATOM	8086	CG2	ILE	847	41.303	53.381	21.282	1.00	0.00	C
ATOM	8087	CD1	ILE	847	39.609	50.998	20.419	1.00	0.00	C
ATOM	8088	C	ILE	847	41.249	52.652	18.611	1.00	0.00	C
ATOM	8089	O	ILE	847	40.504	51.897	17.987	1.00	0.00	O
ATOM	8090	N	PHE	848	41.123	53.992	18.529	1.00	0.00	N
ATOM	8091	HN	PHE	848	41.799	54.598	18.993	1.00	0.00	H
ATOM	8092	CA	PHE	848	40.034	54.565	17.786	1.00	0.00	C
ATOM	8093	CB	PHE	848	40.010	56.108	17.773	1.00	0.00	C
ATOM	8094	CG	PHE	848	39.611	56.579	19.131	1.00	0.00	C
ATOM	8095	CD1	PHE	848	38.285	56.620	19.496	1.00	0.00	C
ATOM	8096	CD2	PHE	848	40.556	56.968	20.049	1.00	0.00	C
ATOM	8097	CE1	PHE	848	37.914	57.048	20.749	1.00	0.00	C
ATOM	8098	CE2	PHE	848	40.195	57.397	21.303	1.00	0.00	C
ATOM	8099	CZ	PHE	848	38.869	57.439	21.656	1.00	0.00	C
ATOM	8100	C	PHE	848	40.144	54.093	16.385	1.00	0.00	C
ATOM	8101	O	PHE	848	39.140	53.790	15.742	1.00	0.00	O
ATOM	8102	N	GLY	849	41.377	54.023	15.865	1.00	0.00	N
ATOM	8103	HN	GLY	849	42.202	54.254	16.419	1.00	0.00	H
ATOM	8104	CA	GLY	849	41.487	53.612	14.503	1.00	0.00	C
ATOM	8105	C	GLY	849	40.966	52.218	14.324	1.00	0.00	C
ATOM	8106	O	GLY	849	40.071	51.998	13.511	1.00	0.00	O
ATOM	8107	N	ILE	850	41.433	51.254	15.139	1.00	0.00	N
ATOM	8108	HN	ILE	850	42.031	51.499	15.928	1.00	0.00	H
ATOM	8109	CA	ILE	850	41.089	49.879	14.897	1.00	0.00	C
ATOM	8110	CB	ILE	850	41.709	48.941	15.891	1.00	0.00	C
ATOM	8111	CG1	ILE	850	41.466	47.485	15.467	1.00	0.00	C
ATOM	8112	CG2	ILE	850	41.194	49.300	17.294	1.00	0.00	C
ATOM	8113	CD1	ILE	850	42.330	46.480	16.226	1.00	0.00	C
ATOM	8114	C	ILE	850	39.606	49.720	14.941	1.00	0.00	C
ATOM	8115	O	ILE	850	39.023	49.073	14.072	1.00	0.00	O
ATOM	8116	N	THR	851	38.944	50.338	15.929	1.00	0.00	N
ATOM	8117	HN	THR	851	39.439	50.919	16.606	1.00	0.00	H
ATOM	8118	CA	THR	851	37.525	50.162	16.011	1.00	0.00	C
ATOM	8119	CB	THR	851	36.924	50.883	17.179	1.00	0.00	C
ATOM	8120	OG1	THR	851	37.208	52.272	17.094	1.00	0.00	O
ATOM	8121	HG1	THR	851	36.849	52.634	16.292	1.00	0.00	H
ATOM	8122	CG2	THR	851	37.505	50.297	18.476	1.00	0.00	C
ATOM	8123	C	THR	851	36.861	50.673	14.768	1.00	0.00	C
ATOM	8124	O	THR	851	36.164	49.927	14.085	1.00	0.00	O
ATOM	8125	N	PHE	852	37.143	51.930	14.382	1.00	0.00	N
ATOM	8126	HN	PHE	852	37.851	52.459	14.891	1.00	0.00	H
ATOM	8127	CA	PHE	852	36.470	52.549	13.268	1.00	0.00	C
ATOM	8128	CB	PHE	852	37.019	53.965	12.999	1.00	0.00	C
ATOM	8129	CG	PHE	852	36.596	54.471	11.660	1.00	0.00	C
ATOM	8130	CD1	PHE	852	35.275	54.719	11.366	1.00	0.00	C
ATOM	8131	CD2	PHE	852	37.540	54.670	10.677	1.00	0.00	C
ATOM	8132	CE1	PHE	852	34.911	55.185	10.123	1.00	0.00	C
ATOM	8133	CE2	PHE	852	37.183	55.137	9.434	1.00	0.00	C
ATOM	8134	CZ	PHE	852	35.864	55.399	9.154	1.00	0.00	C
ATOM	8135	C	PHE	852	36.619	51.694	12.051	1.00	0.00	C
ATOM	8136	O	PHE	852	35.636	51.412	11.363	1.00	0.00	O
ATOM	8137	N	SER	853	37.844	51.209	11.793	1.00	0.00	N

ATOM	8138	HN	SER	853	38.611	51.408	12.435	1.00	0.00	H
ATOM	8139	CA	SER	853	38.084	50.415	10.626	1.00	0.00	C
ATOM	8140	CB	SER	853	39.535	49.917	10.545	1.00	0.00	C
ATOM	8141	OG	SER	853	39.797	49.018	11.612	1.00	0.00	O
ATOM	8142	HG	SER	853	40.694	48.710	11.562	1.00	0.00	H
ATOM	8143	C	SER	853	37.204	49.206	10.658	1.00	0.00	C
ATOM	8144	O	SER	853	36.501	48.926	9.691	1.00	0.00	O
ATOM	8145	N	PHE	854	37.138	48.517	11.809	1.00	0.00	N
ATOM	8146	HN	PHE	854	37.630	48.881	12.625	1.00	0.00	H
ATOM	8147	CA	PHE	854	36.403	47.287	11.940	1.00	0.00	C
ATOM	8148	CB	PHE	854	36.355	46.776	13.393	1.00	0.00	C
ATOM	8149	CG	PHE	854	35.501	45.553	13.436	1.00	0.00	C
ATOM	8150	CD1	PHE	854	34.138	45.663	13.601	1.00	0.00	C
ATOM	8151	CD2	PHE	854	36.056	44.300	13.313	1.00	0.00	C
ATOM	8152	CE1	PHE	854	33.341	44.543	13.643	1.00	0.00	C
ATOM	8153	CE2	PHE	854	35.264	43.176	13.353	1.00	0.00	C
ATOM	8154	CZ	PHE	854	33.905	43.296	13.518	1.00	0.00	C
ATOM	8155	C	PHE	854	35.002	47.553	11.503	1.00	0.00	C
ATOM	8156	O	PHE	854	34.334	46.678	10.956	1.00	0.00	O
ATOM	8157	N	THR	855	34.511	48.774	11.757	1.00	0.00	N
ATOM	8158	HN	THR	855	35.088	49.467	12.234	1.00	0.00	H
ATOM	8159	CA	THR	855	33.176	49.104	11.358	1.00	0.00	C
ATOM	8160	CB	THR	855	32.789	50.493	11.768	1.00	0.00	C
ATOM	8161	OG1	THR	855	32.924	50.641	13.173	1.00	0.00	O
ATOM	8162	HG1	THR	855	32.679	51.521	13.433	1.00	0.00	H
ATOM	8163	CG2	THR	855	31.328	50.740	11.354	1.00	0.00	C
ATOM	8164	C	THR	855	33.062	49.025	9.863	1.00	0.00	C
ATOM	8165	O	THR	855	32.114	48.448	9.334	1.00	0.00	O
ATOM	8166	N	GLN	856	34.035	49.607	9.141	1.00	0.00	N
ATOM	8167	HN	GLN	856	34.815	50.038	9.637	1.00	0.00	H
ATOM	8168	CA	GLN	856	34.030	49.652	7.704	1.00	0.00	C
ATOM	8169	CB	GLN	856	35.119	50.581	7.157	1.00	0.00	C
ATOM	8170	CG	GLN	856	35.036	51.986	7.759	1.00	0.00	C
ATOM	8171	CD	GLN	856	33.569	52.386	7.850	1.00	0.00	C
ATOM	8172	OE1	GLN	856	32.832	51.902	8.709	1.00	0.00	O
ATOM	8173	NE2	GLN	856	33.128	53.302	6.948	1.00	0.00	N
ATOM	8174	1HE2	GLN	856	33.739	53.703	6.236	1.00	0.00	H
ATOM	8175	2HE2	GLN	856	32.146	53.570	7.009	1.00	0.00	H
ATOM	8176	C	GLN	856	34.237	48.280	7.144	1.00	0.00	C
ATOM	8177	O	GLN	856	33.734	47.950	6.072	1.00	0.00	O
ATOM	8178	N	ALA	857	35.025	47.445	7.840	1.00	0.00	N
ATOM	8179	HN	ALA	857	35.472	47.763	8.700	1.00	0.00	H
ATOM	8180	CA	ALA	857	35.238	46.110	7.375	1.00	0.00	C
ATOM	8181	CB	ALA	857	36.145	45.285	8.305	1.00	0.00	C
ATOM	8182	C	ALA	857	33.890	45.482	7.359	1.00	0.00	C
ATOM	8183	O	ALA	857	33.554	44.727	6.450	1.00	0.00	O
ATOM	8184	N	MET	858	33.055	45.826	8.352	1.00	0.00	N
ATOM	8185	HN	MET	858	33.362	46.479	9.073	1.00	0.00	H
ATOM	8186	CA	MET	858	31.737	45.278	8.398	1.00	0.00	C
ATOM	8187	CB	MET	858	30.872	45.834	9.539	1.00	0.00	C
ATOM	8188	CG	MET	858	31.296	45.331	10.916	1.00	0.00	C
ATOM	8189	SD	MET	858	31.002	43.557	11.170	1.00	0.00	S
ATOM	8190	CE	MET	858	29.208	43.738	11.381	1.00	0.00	C
ATOM	8191	C	MET	858	31.084	45.683	7.122	1.00	0.00	C
ATOM	8192	O	MET	858	30.304	44.925	6.552	1.00	0.00	O
ATOM	8193	N	MET	859	31.416	46.884	6.619	1.00	0.00	N
ATOM	8194	HN	MET	859	32.114	47.461	7.088	1.00	0.00	H
ATOM	8195	CA	MET	859	30.784	47.350	5.419	1.00	0.00	C
ATOM	8196	CB	MET	859	31.375	48.664	4.888	1.00	0.00	C
ATOM	8197	CG	MET	859	30.896	48.997	3.476	1.00	0.00	C
ATOM	8198	SD	MET	859	31.748	50.403	2.702	1.00	0.00	S
ATOM	8199	CE	MET	859	33.334	49.571	2.410	1.00	0.00	C
ATOM	8200	C	MET	859	30.953	46.361	4.307	1.00	0.00	C
ATOM	8201	O	MET	859	29.958	45.896	3.753	1.00	0.00	O
ATOM	8202	N	TYR	860	32.199	45.975	3.970	1.00	0.00	N
ATOM	8203	HN	TYR	860	33.007	46.300	4.500	1.00	0.00	H
ATOM	8204	CA	TYR	860	32.362	45.097	2.848	1.00	0.00	C
ATOM	8205	CB	TYR	860	33.806	44.950	2.334	1.00	0.00	C
ATOM	8206	CG	TYR	860	34.622	44.042	3.188	1.00	0.00	C
ATOM	8207	CD1	TYR	860	35.261	44.487	4.322	1.00	0.00	C
ATOM	8208	CD2	TYR	860	34.759	42.724	2.820	1.00	0.00	C
ATOM	8209	CE1	TYR	860	36.023	43.625	5.077	1.00	0.00	C
ATOM	8210	CE2	TYR	860	35.516	41.857	3.568	1.00	0.00	C
ATOM	8211	CZ	TYR	860	36.151	42.309	4.698	1.00	0.00	C

ATOM	8212	OH	TYR	860	36.933	41.420	5.464	1.00	0.00	O
ATOM	8213	HH	TYR	860	37.372	41.733	6.246	1.00	0.00	H
ATOM	8214	C	TYR	860	31.831	43.747	3.185	1.00	0.00	C
ATOM	8215	O	TYR	860	31.166	43.130	2.355	1.00	0.00	O
ATOM	8216	N	PHE	861	32.083	43.272	4.425	1.00	0.00	N
ATOM	8217	HN	PHE	861	32.587	43.854	5.095	1.00	0.00	H
ATOM	8218	CA	PHE	861	31.650	41.957	4.812	1.00	0.00	C
ATOM	8219	CB	PHE	861	31.736	41.650	6.323	1.00	0.00	C
ATOM	8220	CG	PHE	861	33.090	41.235	6.789	1.00	0.00	C
ATOM	8221	CD1	PHE	861	33.434	39.902	6.778	1.00	0.00	C
ATOM	8222	CD2	PHE	861	34.003	42.149	7.259	1.00	0.00	C
ATOM	8223	CE1	PHE	861	34.672	39.493	7.215	1.00	0.00	C
ATOM	8224	CE2	PHE	861	35.243	41.746	7.698	1.00	0.00	C
ATOM	8225	CZ	PHE	861	35.581	40.414	7.676	1.00	0.00	C
ATOM	8226	C	PHE	861	30.189	41.871	4.559	1.00	0.00	C
ATOM	8227	O	PHE	861	29.727	40.949	3.889	1.00	0.00	O
ATOM	8228	N	SER	862	29.433	42.867	5.054	1.00	0.00	N
ATOM	8229	HN	SER	862	29.868	43.667	5.513	1.00	0.00	H
ATOM	8230	CA	SER	862	28.016	42.789	4.929	1.00	0.00	C
ATOM	8231	CB	SER	862	27.261	43.959	5.596	1.00	0.00	C
ATOM	8232	OG	SER	862	27.587	45.202	4.995	1.00	0.00	O
ATOM	8233	HG	SER	862	27.122	45.922	5.405	1.00	0.00	H
ATOM	8234	C	SER	862	27.635	42.704	3.484	1.00	0.00	C
ATOM	8235	O	SER	862	27.022	41.726	3.069	1.00	0.00	O
ATOM	8236	N	TYR	863	28.055	43.670	2.649	1.00	0.00	N
ATOM	8237	HN	TYR	863	28.705	44.388	2.969	1.00	0.00	H
ATOM	8238	CA	TYR	863	27.569	43.671	1.297	1.00	0.00	C
ATOM	8239	CB	TYR	863	28.117	44.830	0.446	1.00	0.00	C
ATOM	8240	CG	TYR	863	27.504	46.101	0.923	1.00	0.00	C
ATOM	8241	CD1	TYR	863	28.092	46.842	1.922	1.00	0.00	C
ATOM	8242	CD2	TYR	863	26.330	46.549	0.363	1.00	0.00	C
ATOM	8243	CE1	TYR	863	27.519	48.015	2.353	1.00	0.00	C
ATOM	8244	CE2	TYR	863	25.752	47.721	0.790	1.00	0.00	C
ATOM	8245	CZ	TYR	863	26.347	48.456	1.786	1.00	0.00	C
ATOM	8246	OH	TYR	863	25.756	49.660	2.224	1.00	0.00	O
ATOM	8247	HH	TYR	863	24.946	49.965	1.832	1.00	0.00	H
ATOM	8248	C	TYR	863	27.930	42.409	0.576	1.00	0.00	C
ATOM	8249	O	TYR	863	27.055	41.754	0.010	1.00	0.00	O
ATOM	8250	N	ALA	864	29.208	41.995	0.631	1.00	0.00	N
ATOM	8251	HN	ALA	864	29.869	42.474	1.242	1.00	0.00	H
ATOM	8252	CA	ALA	864	29.648	40.885	-0.163	1.00	0.00	C
ATOM	8253	CB	ALA	864	31.118	40.540	0.083	1.00	0.00	C
ATOM	8254	C	ALA	864	28.889	39.651	0.178	1.00	0.00	C
ATOM	8255	O	ALA	864	28.349	38.987	-0.706	1.00	0.00	O
ATOM	8256	N	GLY	865	28.778	39.338	1.478	1.00	0.00	N
ATOM	8257	HN	GLY	865	29.143	39.967	2.193	1.00	0.00	H
ATOM	8258	CA	GLY	865	28.142	38.112	1.849	1.00	0.00	C
ATOM	8259	C	GLY	865	26.744	38.159	1.341	1.00	0.00	C
ATOM	8260	O	GLY	865	26.237	37.174	0.807	1.00	0.00	O
ATOM	8261	N	CYS	866	26.096	39.329	1.470	1.00	0.00	N
ATOM	8262	HN	CYS	866	26.580	40.144	1.846	1.00	0.00	H
ATOM	8263	CA	CYS	866	24.726	39.424	1.077	1.00	0.00	C
ATOM	8264	CB	CYS	866	24.143	40.822	1.325	1.00	0.00	C
ATOM	8265	SG	CYS	866	24.137	41.259	3.090	1.00	0.00	S
ATOM	8266	C	CYS	866	24.554	39.110	-0.382	1.00	0.00	C
ATOM	8267	O	CYS	866	23.896	38.136	-0.741	1.00	0.00	O
ATOM	8268	N	PHE	867	25.218	39.866	-1.270	1.00	0.00	N
ATOM	8269	HN	PHE	867	25.877	40.573	-0.944	1.00	0.00	H
ATOM	8270	CA	PHE	867	25.003	39.682	-2.679	1.00	0.00	C
ATOM	8271	CB	PHE	867	25.810	40.659	-3.554	1.00	0.00	C
ATOM	8272	CG	PHE	867	25.197	42.014	-3.431	1.00	0.00	C
ATOM	8273	CD1	PHE	867	24.148	42.383	-4.243	1.00	0.00	C
ATOM	8274	CD2	PHE	867	25.670	42.917	-2.508	1.00	0.00	C
ATOM	8275	CE1	PHE	867	23.579	43.630	-4.136	1.00	0.00	C
ATOM	8276	CE2	PHE	867	25.105	44.165	-2.397	1.00	0.00	C
ATOM	8277	CZ	PHE	867	24.058	44.525	-3.210	1.00	0.00	C
ATOM	8278	C	PHE	867	25.400	38.292	-3.055	1.00	0.00	C
ATOM	8279	O	PHE	867	24.762	37.666	-3.900	1.00	0.00	O
ATOM	8280	N	ARG	868	26.493	37.780	-2.468	1.00	0.00	N
ATOM	8281	HN	ARG	868	26.999	38.321	-1.767	1.00	0.00	H
ATOM	8282	CA	ARG	868	26.946	36.471	-2.830	1.00	0.00	C
ATOM	8283	CB	ARG	868	28.270	36.117	-2.132	1.00	0.00	C
ATOM	8284	CG	ARG	868	29.037	34.956	-2.769	1.00	0.00	C
ATOM	8285	CD	ARG	868	28.655	33.583	-2.221	1.00	0.00	C



ATOM	8286	NE	ARG	868	27.624	33.004	-3.125	1.00	0.00	N
ATOM	8287	HE	ARG	868	27.345	33.502	-3.970	1.00	0.00	H
ATOM	8288	CZ	ARG	868	27.055	31.803	-2.815	1.00	0.00	C
ATOM	8289	NH1	ARG	868	27.377	31.182	-1.643	1.00	0.00	N
ATOM	8290	1HH1	ARG	868	28.042	31.615	-1.002	1.00	0.00	H
ATOM	8291	2HH1	ARG	868	26.952	30.284	-1.411	1.00	0.00	H
ATOM	8292	NH2	ARG	868	26.166	31.224	-3.673	1.00	0.00	N
ATOM	8293	1HH2	ARG	868	25.925	31.688	-4.549	1.00	0.00	H
ATOM	8294	2HH2	ARG	868	25.741	30.326	-3.441	1.00	0.00	H
ATOM	8295	C	ARG	868	25.919	35.444	-2.442	1.00	0.00	C
ATOM	8296	O	ARG	868	25.484	34.634	-3.260	1.00	0.00	O
ATOM	8297	N	PHE	869	25.456	35.499	-1.181	1.00	0.00	N
ATOM	8298	HN	PHE	869	25.758	36.269	-0.583	1.00	0.00	H
ATOM	8299	CA	PHE	869	24.556	34.522	-0.640	1.00	0.00	C
ATOM	8300	CB	PHE	869	24.251	34.823	0.838	1.00	0.00	C
ATOM	8301	CG	PHE	869	23.557	33.653	1.439	1.00	0.00	C
ATOM	8302	CD1	PHE	869	24.292	32.617	1.966	1.00	0.00	C
ATOM	8303	CD2	PHE	869	22.184	33.585	1.472	1.00	0.00	C
ATOM	8304	CE1	PHE	869	23.667	31.529	2.527	1.00	0.00	C
ATOM	8305	CE2	PHE	869	21.553	32.500	2.031	1.00	0.00	C
ATOM	8306	CZ	PHE	869	22.294	31.471	2.560	1.00	0.00	C
ATOM	8307	C	PHE	869	23.283	34.563	-1.417	1.00	0.00	C
ATOM	8308	O	PHE	869	22.758	33.525	-1.817	1.00	0.00	O
ATOM	8309	N	GLY	870	22.767	35.776	-1.686	1.00	0.00	N
ATOM	8310	HN	GLY	870	23.264	36.621	-1.405	1.00	0.00	H
ATOM	8311	CA	GLY	870	21.514	35.869	-2.370	1.00	0.00	C
ATOM	8312	C	GLY	870	21.624	35.203	-3.706	1.00	0.00	C
ATOM	8313	O	GLY	870	20.830	34.329	-4.037	1.00	0.00	O
ATOM	8314	N	ALA	871	22.693	35.502	-4.456	1.00	0.00	N
ATOM	8315	HN	ALA	871	23.428	36.076	-4.043	1.00	0.00	H
ATOM	8316	CA	ALA	871	22.858	35.057	-5.811	1.00	0.00	C
ATOM	8317	CB	ALA	871	24.231	35.426	-6.397	1.00	0.00	C
ATOM	8318	C	ALA	871	22.750	33.574	-5.838	1.00	0.00	C
ATOM	8319	O	ALA	871	22.307	33.021	-6.843	1.00	0.00	O
ATOM	8320	N	TYR	872	23.161	32.926	-4.727	1.00	0.00	N
ATOM	8321	HN	TYR	872	23.448	33.508	-3.940	1.00	0.00	H
ATOM	8322	CA	TYR	872	23.237	31.500	-4.534	1.00	0.00	C
ATOM	8323	CB	TYR	872	23.004	31.094	-3.068	1.00	0.00	C
ATOM	8324	CG	TYR	872	23.207	29.624	-2.941	1.00	0.00	C
ATOM	8325	CD1	TYR	872	24.466	29.116	-2.720	1.00	0.00	C
ATOM	8326	CD2	TYR	872	22.145	28.756	-3.038	1.00	0.00	C
ATOM	8327	CE1	TYR	872	24.668	27.761	-2.598	1.00	0.00	C
ATOM	8328	CE2	TYR	872	22.340	27.400	-2.918	1.00	0.00	C
ATOM	8329	CZ	TYR	872	23.601	26.901	-2.698	1.00	0.00	C
ATOM	8330	OH	TYR	872	23.797	25.509	-2.575	1.00	0.00	O
ATOM	8331	HH	TYR	872	24.669	25.164	-2.423	1.00	0.00	H
ATOM	8332	C	TYR	872	22.252	30.743	-5.395	1.00	0.00	C
ATOM	8333	O	TYR	872	21.054	31.008	-5.388	1.00	0.00	O
ATOM	8334	N	LEU	873	22.793	29.745	-6.126	1.00	0.00	N
ATOM	8335	HN	LEU	873	23.800	29.647	-5.999	1.00	0.00	H
ATOM	8336	CA	LEU	873	22.228	28.784	-7.056	1.00	0.00	C
ATOM	8337	CB	LEU	873	21.496	27.598	-6.420	1.00	0.00	C
ATOM	8338	CG	LEU	873	21.084	26.602	-7.521	1.00	0.00	C
ATOM	8339	CD1	LEU	873	22.322	25.987	-8.189	1.00	0.00	C
ATOM	8340	CD2	LEU	873	20.089	25.552	-7.023	1.00	0.00	C
ATOM	8341	C	LEU	873	21.357	29.259	-8.191	1.00	0.00	C
ATOM	8342	O	LEU	873	20.130	29.202	-8.132	1.00	0.00	O
ATOM	8343	N	VAL	874	22.002	29.803	-9.238	1.00	0.00	N
ATOM	8344	HN	VAL	874	23.001	29.960	-9.106	1.00	0.00	H
ATOM	8345	CA	VAL	874	21.476	30.195	-10.521	1.00	0.00	C
ATOM	8346	CB	VAL	874	22.159	31.386	-11.112	1.00	0.00	C
ATOM	8347	CG1	VAL	874	22.002	32.565	-10.138	1.00	0.00	C
ATOM	8348	CG2	VAL	874	23.603	31.010	-11.435	1.00	0.00	C
ATOM	8349	C	VAL	874	21.498	29.074	-11.540	1.00	0.00	C
ATOM	8350	O	VAL	874	21.412	29.352	-12.737	1.00	0.00	O
ATOM	8351	N	ALA	875	21.798	27.816	-11.151	1.00	0.00	N
ATOM	8352	HN	ALA	875	21.926	27.600	-10.162	1.00	0.00	H
ATOM	8353	CA	ALA	875	21.937	26.776	-12.148	1.00	0.00	C
ATOM	8354	CB	ALA	875	22.489	25.459	-11.572	1.00	0.00	C
ATOM	8355	C	ALA	875	20.638	26.449	-12.845	1.00	0.00	C
ATOM	8356	O	ALA	875	19.763	25.781	-12.305	1.00	0.00	O
ATOM	8357	N	HIS	876	20.548	26.838	-14.133	1.00	0.00	N
ATOM	8358	HN	HIS	876	21.353	27.342	-14.505	1.00	0.00	H
ATOM	8359	CA	HIS	876	19.454	26.629	-15.048	1.00	0.00	C

ATOM	8360	ND1	HIS	876	17.056	24.213	-14.429	1.00	0.00	N
ATOM	8361	HD1	HIS	876	16.401	24.729	-15.017	1.00	0.00	H
ATOM	8362	CG	HIS	876	18.431	24.296	-14.462	1.00	0.00	C
ATOM	8363	CB	HIS	876	19.198	25.151	-15.435	1.00	0.00	C
ATOM	8364	NE2	HIS	876	17.812	22.813	-12.876	1.00	0.00	N
ATOM	8365	HE2	HIS	876	17.848	22.123	-12.125	1.00	0.00	H
ATOM	8366	CD2	HIS	876	18.876	23.435	-13.507	1.00	0.00	C
ATOM	8367	CE1	HIS	876	16.740	23.312	-13.463	1.00	0.00	C
ATOM	8368	C	HIS	876	18.168	27.277	-14.614	1.00	0.00	C
ATOM	8369	O	HIS	876	17.091	26.815	-14.983	1.00	0.00	O
ATOM	8370	N	LYS	877	18.252	28.408	-13.881	1.00	0.00	N
ATOM	8371	HN	LYS	877	19.181	28.729	-13.607	1.00	0.00	H
ATOM	8372	CA	LYS	877	17.116	29.194	-13.458	1.00	0.00	C
ATOM	8373	CB	LYS	877	15.959	29.253	-14.461	1.00	0.00	C
ATOM	8374	CG	LYS	877	14.871	30.224	-14.012	1.00	0.00	C
ATOM	8375	CD	LYS	877	15.331	31.683	-14.039	1.00	0.00	C
ATOM	8376	CE	LYS	877	16.435	32.028	-13.037	1.00	0.00	C
ATOM	8377	NZ	LYS	877	16.895	33.419	-13.249	1.00	0.00	N
ATOM	8378	HZ1	LYS	877	17.631	33.649	-12.581	1.00	0.00	H
ATOM	8379	HZ2	LYS	877	16.124	34.086	-13.213	1.00	0.00	H
ATOM	8380	HZ3	LYS	877	17.188	33.582	-14.212	1.00	0.00	H
ATOM	8381	C	LYS	877	16.503	28.638	-12.212	1.00	0.00	C
ATOM	8382	O	LYS	877	15.728	27.686	-12.259	1.00	0.00	O
ATOM	8383	N	LEU	878	16.769	29.307	-11.075	1.00	0.00	N
ATOM	8384	HN	LEU	878	17.293	30.179	-11.144	1.00	0.00	H
ATOM	8385	CA	LEU	878	16.360	28.867	-9.772	1.00	0.00	C
ATOM	8386	CB	LEU	878	17.616	28.310	-9.054	1.00	0.00	C
ATOM	8387	CG	LEU	878	17.505	27.754	-7.624	1.00	0.00	C
ATOM	8388	CD1	LEU	878	17.572	28.851	-6.552	1.00	0.00	C
ATOM	8389	CD2	LEU	878	16.289	26.825	-7.501	1.00	0.00	C
ATOM	8390	C	LEU	878	15.755	30.065	-9.068	1.00	0.00	C
ATOM	8391	O	LEU	878	15.747	31.167	-9.611	1.00	0.00	O
ATOM	8392	N	MET	879	15.295	29.903	-7.808	1.00	0.00	N
ATOM	8393	HN	MET	879	15.448	29.003	-7.354	1.00	0.00	H
ATOM	8394	CA	MET	879	14.601	30.925	-7.067	1.00	0.00	C
ATOM	8395	CB	MET	879	14.089	30.532	-5.664	1.00	0.00	C
ATOM	8396	CG	MET	879	15.069	29.829	-4.726	1.00	0.00	C
ATOM	8397	SD	MET	879	15.097	28.027	-4.942	1.00	0.00	S
ATOM	8398	CE	MET	879	13.293	27.867	-4.830	1.00	0.00	C
ATOM	8399	C	MET	879	15.471	32.134	-6.950	1.00	0.00	C
ATOM	8400	O	MET	879	15.013	33.186	-6.508	1.00	0.00	O
ATOM	8401	N	SER	880	16.777	31.988	-7.226	1.00	0.00	N
ATOM	8402	HN	SER	880	17.145	31.064	-7.452	1.00	0.00	H
ATOM	8403	CA	SER	880	17.663	33.121	-7.207	1.00	0.00	C
ATOM	8404	CB	SER	880	19.143	32.712	-7.135	1.00	0.00	C
ATOM	8405	OG	SER	880	19.502	31.989	-8.305	1.00	0.00	O
ATOM	8406	HG	SER	880	20.417	31.736	-8.261	1.00	0.00	H
ATOM	8407	C	SER	880	17.502	33.928	-8.470	1.00	0.00	C
ATOM	8408	O	SER	880	17.753	33.435	-9.570	1.00	0.00	O
ATOM	8409	N	PHE	881	17.103	35.216	-8.326	1.00	0.00	N
ATOM	8410	HN	PHE	881	16.932	35.574	-7.386	1.00	0.00	H
ATOM	8411	CA	PHE	881	16.911	36.099	-9.447	1.00	0.00	C
ATOM	8412	CB	PHE	881	15.649	35.762	-10.274	1.00	0.00	C
ATOM	8413	CG	PHE	881	14.419	35.973	-9.457	1.00	0.00	C
ATOM	8414	CD1	PHE	881	14.182	35.193	-8.350	1.00	0.00	C
ATOM	8415	CD2	PHE	881	13.515	36.962	-9.775	1.00	0.00	C
ATOM	8416	CE1	PHE	881	13.056	35.381	-7.584	1.00	0.00	C
ATOM	8417	CE2	PHE	881	12.387	37.156	-9.015	1.00	0.00	C
ATOM	8418	CZ	PHE	881	12.155	36.363	-7.918	1.00	0.00	C
ATOM	8419	C	PHE	881	16.841	37.524	-8.937	1.00	0.00	C
ATOM	8420	O	PHE	881	17.549	37.909	-8.008	1.00	0.00	O
ATOM	8421	N	GLU	882	15.954	38.344	-9.537	1.00	0.00	N
ATOM	8422	HN	GLU	882	15.327	37.924	-10.223	1.00	0.00	H
ATOM	8423	CA	GLU	882	15.809	39.762	-9.300	1.00	0.00	C
ATOM	8424	CB	GLU	882	14.691	40.397	-10.147	1.00	0.00	C
ATOM	8425	CG	GLU	882	14.647	41.931	-10.078	1.00	0.00	C
ATOM	8426	CD	GLU	882	13.910	42.401	-8.825	1.00	0.00	C
ATOM	8427	OE1	GLU	882	13.192	41.578	-8.198	1.00	0.00	O
ATOM	8428	OE2	GLU	882	14.068	43.600	-8.473	1.00	0.00	O
ATOM	8429	C	GLU	882	15.502	40.134	-7.870	1.00	0.00	C
ATOM	8430	O	GLU	882	15.959	41.181	-7.414	1.00	0.00	O
ATOM	8431	N	ASP	883	14.778	39.299	-7.105	1.00	0.00	N
ATOM	8432	HN	ASP	883	14.586	38.368	-7.476	1.00	0.00	H
ATOM	8433	CA	ASP	883	14.249	39.618	-5.796	1.00	0.00	C

ATOM	8434	CB	ASP	883	13.689	38.375	-5.082	1.00	0.00	C
ATOM	8435	CG	ASP	883	14.799	37.348	-4.903	1.00	0.00	C
ATOM	8436	OD1	ASP	883	15.606	37.155	-5.852	1.00	0.00	O
ATOM	8437	OD2	ASP	883	14.839	36.723	-3.810	1.00	0.00	O
ATOM	8438	C	ASP	883	15.300	40.246	-4.924	1.00	0.00	C
ATOM	8439	O	ASP	883	14.977	41.010	-4.013	1.00	0.00	O
ATOM	8440	N	VAL	884	16.585	39.982	-5.206	1.00	0.00	N
ATOM	8441	HN	VAL	884	16.795	39.357	-5.984	1.00	0.00	H
ATOM	8442	CA	VAL	884	17.677	40.541	-4.460	1.00	0.00	C
ATOM	8443	CB	VAL	884	18.997	40.304	-5.133	1.00	0.00	C
ATOM	8444	CG1	VAL	884	19.256	38.789	-5.186	1.00	0.00	C
ATOM	8445	CG2	VAL	884	18.964	40.966	-6.522	1.00	0.00	C
ATOM	8446	C	VAL	884	17.488	42.035	-4.359	1.00	0.00	C
ATOM	8447	O	VAL	884	17.968	42.664	-3.417	1.00	0.00	O
ATOM	8448	N	LEU	885	16.802	42.659	-5.333	1.00	0.00	N
ATOM	8449	HN	LEU	885	16.436	42.123	-6.119	1.00	0.00	H
ATOM	8450	CA	LEU	885	16.582	44.081	-5.271	1.00	0.00	C
ATOM	8451	CB	LEU	885	15.859	44.639	-6.509	1.00	0.00	C
ATOM	8452	CG	LEU	885	16.774	44.745	-7.745	1.00	0.00	C
ATOM	8453	CD1	LEU	885	17.830	45.845	-7.553	1.00	0.00	C
ATOM	8454	CD2	LEU	885	17.417	43.397	-8.100	1.00	0.00	C
ATOM	8455	C	LEU	885	15.787	44.435	-4.046	1.00	0.00	C
ATOM	8456	O	LEU	885	16.014	45.482	-3.442	1.00	0.00	O
ATOM	8457	N	LEU	886	14.802	43.602	-3.663	1.00	0.00	N
ATOM	8458	HN	LEU	886	14.579	42.786	-4.232	1.00	0.00	H
ATOM	8459	CA	LEU	886	14.062	43.855	-2.457	1.00	0.00	C
ATOM	8460	CB	LEU	886	12.831	42.953	-2.292	1.00	0.00	C
ATOM	8461	CG	LEU	886	11.683	43.329	-3.247	1.00	0.00	C
ATOM	8462	CD1	LEU	886	12.107	43.183	-4.715	1.00	0.00	C
ATOM	8463	CD2	LEU	886	10.397	42.556	-2.911	1.00	0.00	C
ATOM	8464	C	LEU	886	15.000	43.668	-1.307	1.00	0.00	C
ATOM	8465	O	LEU	886	14.827	44.236	-0.232	1.00	0.00	O
ATOM	8466	N	VAL	887	16.023	42.821	-1.477	1.00	0.00	N
ATOM	8467	HN	VAL	887	16.134	42.298	-2.346	1.00	0.00	H
ATOM	8468	CA	VAL	887	16.959	42.672	-0.399	1.00	0.00	C
ATOM	8469	CB	VAL	887	18.074	41.725	-0.733	1.00	0.00	C
ATOM	8470	CG1	VAL	887	19.074	41.712	0.436	1.00	0.00	C
ATOM	8471	CG2	VAL	887	17.468	40.347	-1.053	1.00	0.00	C
ATOM	8472	C	VAL	887	17.561	44.025	-0.128	1.00	0.00	C
ATOM	8473	O	VAL	887	17.708	44.446	1.020	1.00	0.00	O
ATOM	8474	N	PHE	888	17.877	44.775	-1.200	1.00	0.00	N
ATOM	8475	HN	PHE	888	17.699	44.409	-2.135	1.00	0.00	H
ATOM	8476	CA	PHE	888	18.460	46.081	-1.056	1.00	0.00	C
ATOM	8477	CB	PHE	888	18.657	46.783	-2.413	1.00	0.00	C
ATOM	8478	CG	PHE	888	19.155	48.166	-2.166	1.00	0.00	C
ATOM	8479	CD1	PHE	888	18.262	49.191	-1.956	1.00	0.00	C
ATOM	8480	CD2	PHE	888	20.503	48.442	-2.147	1.00	0.00	C
ATOM	8481	CE1	PHE	888	18.703	50.473	-1.728	1.00	0.00	C
ATOM	8482	CE2	PHE	888	20.950	49.724	-1.918	1.00	0.00	C
ATOM	8483	CZ	PHE	888	20.050	50.741	-1.709	1.00	0.00	C
ATOM	8484	C	PHE	888	17.493	46.891	-0.250	1.00	0.00	C
ATOM	8485	O	PHE	888	17.869	47.726	0.571	1.00	0.00	O
ATOM	8486	N	SER	889	16.198	46.650	-0.475	1.00	0.00	N
ATOM	8487	HN	SER	889	15.940	45.940	-1.160	1.00	0.00	H
ATOM	8488	CA	SER	889	15.163	47.355	0.214	1.00	0.00	C
ATOM	8489	CB	SER	889	13.803	46.759	-0.199	1.00	0.00	C
ATOM	8490	OG	SER	889	12.763	47.120	0.685	1.00	0.00	O
ATOM	8491	HG	SER	889	11.925	46.753	0.430	1.00	0.00	H
ATOM	8492	C	SER	889	15.342	47.247	1.715	1.00	0.00	C
ATOM	8493	O	SER	889	15.281	48.249	2.426	1.00	0.00	O
ATOM	8494	N	ALA	890	15.545	46.031	2.252	1.00	0.00	N
ATOM	8495	HN	ALA	890	15.595	45.224	1.630	1.00	0.00	H
ATOM	8496	CA	ALA	890	15.695	45.821	3.674	1.00	0.00	C
ATOM	8497	CB	ALA	890	15.637	44.334	4.061	1.00	0.00	C
ATOM	8498	C	ALA	890	16.974	46.398	4.219	1.00	0.00	C
ATOM	8499	O	ALA	890	17.014	46.864	5.359	1.00	0.00	O
ATOM	8500	N	VAL	891	18.080	46.315	3.453	1.00	0.00	N
ATOM	8501	HN	VAL	891	18.033	45.896	2.524	1.00	0.00	H
ATOM	8502	CA	VAL	891	19.327	46.824	3.959	1.00	0.00	C
ATOM	8503	CB	VAL	891	20.519	46.536	3.076	1.00	0.00	C
ATOM	8504	CG1	VAL	891	20.741	45.016	3.028	1.00	0.00	C
ATOM	8505	CG2	VAL	891	20.307	47.155	1.687	1.00	0.00	C
ATOM	8506	C	VAL	891	19.191	48.306	4.101	1.00	0.00	C
ATOM	8507	O	VAL	891	19.544	48.886	5.129	1.00	0.00	O

ATOM	8508	N	VAL	892	18.622	48.948	3.064	1.00	0.00	N
ATOM	8509	HN	VAL	892	18.309	48.406	2.258	1.00	0.00	H
ATOM	8510	CA	VAL	892	18.444	50.364	3.058	1.00	0.00	C
ATOM	8511	CB	VAL	892	17.962	50.920	1.742	1.00	0.00	C
ATOM	8512	CG1	VAL	892	16.506	50.508	1.496	1.00	0.00	C
ATOM	8513	CG2	VAL	892	18.186	52.441	1.750	1.00	0.00	C
ATOM	8514	C	VAL	892	17.477	50.692	4.151	1.00	0.00	C
ATOM	8515	O	VAL	892	17.435	51.819	4.644	1.00	0.00	O
ATOM	8516	N	PHE	893	16.631	49.716	4.540	1.00	0.00	N
ATOM	8517	HN	PHE	893	16.647	48.798	4.095	1.00	0.00	H
ATOM	8518	CA	PHE	893	15.708	50.009	5.599	1.00	0.00	C
ATOM	8519	CB	PHE	893	14.829	48.845	6.093	1.00	0.00	C
ATOM	8520	CG	PHE	893	13.828	48.436	5.082	1.00	0.00	C
ATOM	8521	CD1	PHE	893	13.219	49.366	4.278	1.00	0.00	C
ATOM	8522	CD2	PHE	893	13.435	47.121	5.014	1.00	0.00	C
ATOM	8523	CE1	PHE	893	12.279	48.959	3.367	1.00	0.00	C
ATOM	8524	CE2	PHE	893	12.493	46.710	4.106	1.00	0.00	C
ATOM	8525	CZ	PHE	893	11.917	47.637	3.275	1.00	0.00	C
ATOM	8526	C	PHE	893	16.465	50.373	6.835	1.00	0.00	C
ATOM	8527	O	PHE	893	16.231	51.424	7.432	1.00	0.00	O
ATOM	8528	N	GLY	894	17.438	49.528	7.223	1.00	0.00	N
ATOM	8529	HN	GLY	894	17.688	48.739	6.627	1.00	0.00	H
ATOM	8530	CA	GLY	894	18.128	49.725	8.467	1.00	0.00	C
ATOM	8531	C	GLY	894	18.734	51.090	8.442	1.00	0.00	C
ATOM	8532	O	GLY	894	18.698	51.835	9.424	1.00	0.00	O
ATOM	8533	N	ALA	895	19.259	51.470	7.272	1.00	0.00	N
ATOM	8534	HN	ALA	895	19.217	50.844	6.468	1.00	0.00	H
ATOM	8535	CA	ALA	895	19.877	52.748	7.147	1.00	0.00	C
ATOM	8536	CB	ALA	895	20.427	53.008	5.734	1.00	0.00	C
ATOM	8537	C	ALA	895	18.861	53.817	7.440	1.00	0.00	C
ATOM	8538	O	ALA	895	19.185	54.828	8.061	1.00	0.00	O
ATOM	8539	N	MET	896	17.596	53.620	7.018	1.00	0.00	N
ATOM	8540	HN	MET	896	17.336	52.727	6.598	1.00	0.00	H
ATOM	8541	CA	MET	896	16.607	54.661	7.155	1.00	0.00	C
ATOM	8542	CB	MET	896	15.223	54.268	6.589	1.00	0.00	C
ATOM	8543	CG	MET	896	14.365	53.418	7.531	1.00	0.00	C
ATOM	8544	SD	MET	896	12.987	52.534	6.740	1.00	0.00	S
ATOM	8545	CE	MET	896	11.890	53.972	6.585	1.00	0.00	C
ATOM	8546	C	MET	896	16.417	55.038	8.603	1.00	0.00	C
ATOM	8547	O	MET	896	16.410	56.218	8.955	1.00	0.00	O
ATOM	8548	N	ALA	897	16.293	54.039	9.493	1.00	0.00	N
ATOM	8549	HN	ALA	897	16.369	53.076	9.166	1.00	0.00	H
ATOM	8550	CA	ALA	897	16.057	54.282	10.890	1.00	0.00	C
ATOM	8551	CB	ALA	897	15.876	52.989	11.701	1.00	0.00	C
ATOM	8552	C	ALA	897	17.226	55.010	11.461	1.00	0.00	C
ATOM	8553	O	ALA	897	17.082	55.825	12.372	1.00	0.00	O
ATOM	8554	N	VAL	898	18.430	54.723	10.937	1.00	0.00	N
ATOM	8555	HN	VAL	898	18.502	54.073	10.154	1.00	0.00	H
ATOM	8556	CA	VAL	898	19.613	55.327	11.475	1.00	0.00	C
ATOM	8557	CB	VAL	898	20.852	54.984	10.699	1.00	0.00	C
ATOM	8558	CG1	VAL	898	22.035	55.774	11.287	1.00	0.00	C
ATOM	8559	CG2	VAL	898	21.049	53.459	10.736	1.00	0.00	C
ATOM	8560	C	VAL	898	19.440	56.812	11.411	1.00	0.00	C
ATOM	8561	O	VAL	898	19.790	57.539	12.343	1.00	0.00	O
ATOM	8562	N	GLY	899	18.827	57.296	10.320	1.00	0.00	N
ATOM	8563	HN	GLY	899	18.470	56.656	9.610	1.00	0.00	H
ATOM	8564	CA	GLY	899	18.674	58.708	10.151	1.00	0.00	C
ATOM	8565	C	GLY	899	17.913	59.268	11.319	1.00	0.00	C
ATOM	8566	O	GLY	899	18.206	60.363	11.797	1.00	0.00	O
ATOM	8567	N	GLN	900	16.907	58.523	11.810	1.00	0.00	N
ATOM	8568	HN	GLN	900	16.782	57.573	11.461	1.00	0.00	H
ATOM	8569	CA	GLN	900	16.000	59.021	12.813	1.00	0.00	C
ATOM	8570	CB	GLN	900	14.916	57.983	13.137	1.00	0.00	C
ATOM	8571	CG	GLN	900	14.233	57.367	11.912	1.00	0.00	C
ATOM	8572	CD	GLN	900	13.371	58.408	11.224	1.00	0.00	C
ATOM	8573	OE1	GLN	900	12.668	58.099	10.264	1.00	0.00	O
ATOM	8574	NE2	GLN	900	13.424	59.673	11.720	1.00	0.00	N
ATOM	8575	1HE2	GLN	900	12.844	60.373	11.257	1.00	0.00	H
ATOM	8576	2HE2	GLN	900	14.007	59.929	12.517	1.00	0.00	H
ATOM	8577	C	GLN	900	16.664	59.328	14.138	1.00	0.00	C
ATOM	8578	O	GLN	900	16.504	60.423	14.684	1.00	0.00	O
ATOM	8579	N	VAL	901	17.445	58.380	14.695	1.00	0.00	N
ATOM	8580	HN	VAL	901	17.649	57.520	14.185	1.00	0.00	H
ATOM	8581	CA	VAL	901	17.992	58.587	16.017	1.00	0.00	C

ATOM	8582	CB	VAL	901	18.761	57.403	16.536	1.00	0.00	C
ATOM	8583	CG1	VAL	901	19.922	57.087	15.576	1.00	0.00	C
ATOM	8584	CG2	VAL	901	19.206	57.718	17.976	1.00	0.00	C
ATOM	8585	C	VAL	901	18.901	59.756	15.964	1.00	0.00	C
ATOM	8586	O	VAL	901	18.924	60.603	16.859	1.00	0.00	O
ATOM	8587	N	SER	902	19.673	59.810	14.873	1.00	0.00	N
ATOM	8588	HN	SER	902	19.563	59.089	14.160	1.00	0.00	H
ATOM	8589	CA	SER	902	20.642	60.833	14.665	1.00	0.00	C
ATOM	8590	CB	SER	902	21.659	60.470	13.569	1.00	0.00	C
ATOM	8591	OG	SER	902	22.401	59.322	13.954	1.00	0.00	O
ATOM	8592	HG	SER	902	23.029	59.098	13.277	1.00	0.00	H
ATOM	8593	C	SER	902	19.974	62.116	14.247	1.00	0.00	C
ATOM	8594	O	SER	902	20.675	63.079	13.945	1.00	0.00	O
ATOM	8595	N	SER	903	18.624	62.194	14.179	1.00	0.00	N
ATOM	8596	HN	SER	903	18.029	61.422	14.479	1.00	0.00	H
ATOM	8597	CA	SER	903	18.064	63.423	13.661	1.00	0.00	C
ATOM	8598	CB	SER	903	17.575	63.283	12.211	1.00	0.00	C
ATOM	8599	OG	SER	903	16.543	62.310	12.143	1.00	0.00	O
ATOM	8600	HG	SER	903	16.241	62.223	11.247	1.00	0.00	H
ATOM	8601	C	SER	903	16.892	63.889	14.479	1.00	0.00	C
ATOM	8602	O	SER	903	16.534	63.270	15.480	1.00	0.00	O
ATOM	8603	N	PHE	904	16.315	65.057	14.083	1.00	0.00	N
ATOM	8604	HN	PHE	904	16.729	65.558	13.297	1.00	0.00	H
ATOM	8605	CA	PHE	904	15.146	65.624	14.719	1.00	0.00	C
ATOM	8606	CB	PHE	904	14.008	64.635	15.047	1.00	0.00	C
ATOM	8607	CG	PHE	904	12.976	64.663	13.969	1.00	0.00	C
ATOM	8608	CD1	PHE	904	12.059	65.689	13.964	1.00	0.00	C
ATOM	8609	CD2	PHE	904	12.882	63.693	12.998	1.00	0.00	C
ATOM	8610	CE1	PHE	904	11.078	65.767	13.006	1.00	0.00	C
ATOM	8611	CE2	PHE	904	11.899	63.766	12.035	1.00	0.00	C
ATOM	8612	CZ	PHE	904	10.996	64.802	12.034	1.00	0.00	C
ATOM	8613	C	PHE	904	15.494	66.352	15.986	1.00	0.00	C
ATOM	8614	O	PHE	904	16.614	66.816	16.192	1.00	0.00	O
ATOM	8615	N	ALA	905	14.484	66.433	16.878	1.00	0.00	N
ATOM	8616	HN	ALA	905	13.630	65.933	16.631	1.00	0.00	H
ATOM	8617	CA	ALA	905	14.460	67.137	18.135	1.00	0.00	C
ATOM	8618	CB	ALA	905	13.175	66.794	18.918	1.00	0.00	C
ATOM	8619	C	ALA	905	15.663	66.739	18.936	1.00	0.00	C
ATOM	8620	O	ALA	905	16.345	65.780	18.572	1.00	0.00	O
ATOM	8621	N	PRO	906	15.985	67.482	19.992	1.00	0.00	N
ATOM	8622	CA	PRO	906	17.115	67.161	20.823	1.00	0.00	C
ATOM	8623	CD	PRO	906	15.042	68.348	20.688	1.00	0.00	C
ATOM	8624	CB	PRO	906	17.045	68.112	22.018	1.00	0.00	C
ATOM	8625	CG	PRO	906	15.543	68.416	22.139	1.00	0.00	C
ATOM	8626	C	PRO	906	16.919	65.737	21.228	1.00	0.00	C
ATOM	8627	O	PRO	906	15.760	65.333	21.271	1.00	0.00	O
ATOM	8628	N	ASP	907	18.010	65.003	21.587	1.00	0.00	N
ATOM	8629	HN	ASP	907	18.879	65.536	21.598	1.00	0.00	H
ATOM	8630	CA	ASP	907	18.175	63.602	21.959	1.00	0.00	C
ATOM	8631	CB	ASP	907	19.638	63.196	22.189	1.00	0.00	C
ATOM	8632	CG	ASP	907	19.702	61.677	22.085	1.00	0.00	C
ATOM	8633	OD1	ASP	907	18.617	61.045	21.968	1.00	0.00	O
ATOM	8634	OD2	ASP	907	20.835	61.127	22.112	1.00	0.00	O
ATOM	8635	C	ASP	907	17.414	63.371	23.250	1.00	0.00	C
ATOM	8636	O	ASP	907	17.778	62.573	24.109	1.00	0.00	O
ATOM	8637	N	TYR	908	16.390	64.201	23.466	1.00	0.00	N
ATOM	8638	HN	TYR	908	16.194	64.858	22.711	1.00	0.00	H
ATOM	8639	CA	TYR	908	15.540	64.300	24.589	1.00	0.00	C
ATOM	8640	CB	TYR	908	15.268	62.901	25.174	1.00	0.00	C
ATOM	8641	CG	TYR	908	13.818	62.730	25.466	1.00	0.00	C
ATOM	8642	CD1	TYR	908	13.198	63.418	26.477	1.00	0.00	C
ATOM	8643	CD2	TYR	908	13.080	61.838	24.719	1.00	0.00	C
ATOM	8644	CE1	TYR	908	11.859	63.233	26.728	1.00	0.00	C
ATOM	8645	CE2	TYR	908	11.741	61.645	24.961	1.00	0.00	C
ATOM	8646	CZ	TYR	908	11.129	62.348	25.970	1.00	0.00	C
ATOM	8647	OH	TYR	908	9.755	62.161	26.231	1.00	0.00	O
ATOM	8648	HH	TYR	908	9.332	62.647	26.929	1.00	0.00	H
ATOM	8649	C	TYR	908	16.463	65.028	25.510	1.00	0.00	C
ATOM	8650	O	TYR	908	16.810	66.175	25.233	1.00	0.00	O
ATOM	8651	N	ALA	909	16.974	64.367	26.561	1.00	0.00	N
ATOM	8652	HN	ALA	909	16.636	63.437	26.808	1.00	0.00	H
ATOM	8653	CA	ALA	909	18.011	65.003	27.330	1.00	0.00	C
ATOM	8654	CB	ALA	909	19.308	65.214	26.528	1.00	0.00	C
ATOM	8655	C	ALA	909	17.569	66.319	27.865	1.00	0.00	C

ATOM	8656	O	ALA	909	16.590	66.438	28.587	1.00	0.00	O
ATOM	8657	N	LYS	910	18.305	67.365	27.471	1.00	0.00	N
ATOM	8658	HN	LYS	910	19.023	67.184	26.770	1.00	0.00	H
ATOM	8659	CA	LYS	910	18.183	68.716	27.938	1.00	0.00	C
ATOM	8660	CB	LYS	910	18.919	69.681	26.995	1.00	0.00	C
ATOM	8661	CG	LYS	910	20.337	69.234	26.616	1.00	0.00	C
ATOM	8662	CD	LYS	910	20.390	68.005	25.697	1.00	0.00	C
ATOM	8663	CE	LYS	910	19.379	68.049	24.548	1.00	0.00	C
ATOM	8664	NZ	LYS	910	19.167	66.688	24.005	1.00	0.00	N
ATOM	8665	HZ1	LYS	910	18.493	66.717	23.240	1.00	0.00	H
ATOM	8666	HZ2	LYS	910	18.892	66.026	24.731	1.00	0.00	H
ATOM	8667	HZ3	LYS	910	20.044	66.248	23.726	1.00	0.00	H
ATOM	8668	C	LYS	910	16.734	69.073	27.855	1.00	0.00	C
ATOM	8669	O	LYS	910	16.244	69.868	28.656	1.00	0.00	O
ATOM	8670	N	ALA	911	16.005	68.518	26.867	1.00	0.00	N
ATOM	8671	HN	ALA	911	16.431	67.874	26.201	1.00	0.00	H
ATOM	8672	CA	ALA	911	14.613	68.858	26.777	1.00	0.00	C
ATOM	8673	CB	ALA	911	13.915	68.183	25.585	1.00	0.00	C
ATOM	8674	C	ALA	911	13.900	68.404	28.029	1.00	0.00	C
ATOM	8675	O	ALA	911	13.149	69.156	28.647	1.00	0.00	O
ATOM	8676	N	LYS	912	14.137	67.158	28.467	1.00	0.00	N
ATOM	8677	HN	LYS	912	14.755	66.551	27.929	1.00	0.00	H
ATOM	8678	CA	LYS	912	13.542	66.658	29.674	1.00	0.00	C
ATOM	8679	CB	LYS	912	13.945	65.218	30.037	1.00	0.00	C
ATOM	8680	CG	LYS	912	13.147	64.128	29.328	1.00	0.00	C
ATOM	8681	CD	LYS	912	13.730	62.728	29.537	1.00	0.00	C
ATOM	8682	CE	LYS	912	12.856	61.604	28.977	1.00	0.00	C
ATOM	8683	NZ	LYS	912	13.467	60.289	29.276	1.00	0.00	N
ATOM	8684	HZ1	LYS	912	12.884	59.540	28.903	1.00	0.00	H
ATOM	8685	HZ2	LYS	912	13.650	60.170	30.272	1.00	0.00	H
ATOM	8686	HZ3	LYS	912	14.428	60.229	28.940	1.00	0.00	H
ATOM	8687	C	LYS	912	13.956	67.491	30.856	1.00	0.00	C
ATOM	8688	O	LYS	912	13.119	67.818	31.696	1.00	0.00	O
ATOM	8689	N	ILE	913	15.247	67.871	30.965	1.00	0.00	N
ATOM	8690	HN	ILE	913	15.920	67.643	30.233	1.00	0.00	H
ATOM	8691	CA	ILE	913	15.655	68.607	32.139	1.00	0.00	C
ATOM	8692	CB	ILE	913	17.138	68.898	32.180	1.00	0.00	C
ATOM	8693	CG1	ILE	913	17.619	69.812	31.035	1.00	0.00	C
ATOM	8694	CG2	ILE	913	17.855	67.538	32.221	1.00	0.00	C
ATOM	8695	CD1	ILE	913	17.430	71.309	31.289	1.00	0.00	C
ATOM	8696	C	ILE	913	14.870	69.867	32.169	1.00	0.00	C
ATOM	8697	O	ILE	913	14.316	70.258	33.198	1.00	0.00	O
ATOM	8698	N	SER	914	14.746	70.514	31.006	1.00	0.00	N
ATOM	8699	HN	SER	914	15.149	70.142	30.146	1.00	0.00	H
ATOM	8700	CA	SER	914	14.027	71.747	31.017	1.00	0.00	C
ATOM	8701	CB	SER	914	14.081	72.467	29.662	1.00	0.00	C
ATOM	8702	OG	SER	914	15.422	72.843	29.381	1.00	0.00	O
ATOM	8703	HG	SER	914	15.455	73.288	28.543	1.00	0.00	H
ATOM	8704	C	SER	914	12.589	71.451	31.350	1.00	0.00	C
ATOM	8705	O	SER	914	11.924	72.245	32.014	1.00	0.00	O
ATOM	8706	N	ALA	915	12.066	70.286	30.914	1.00	0.00	N
ATOM	8707	HN	ALA	915	12.648	69.619	30.407	1.00	0.00	H
ATOM	8708	CA	ALA	915	10.680	69.993	31.170	1.00	0.00	C
ATOM	8709	CB	ALA	915	10.241	68.642	30.578	1.00	0.00	C
ATOM	8710	C	ALA	915	10.422	69.923	32.654	1.00	0.00	C
ATOM	8711	O	ALA	915	9.485	70.539	33.169	1.00	0.00	O
ATOM	8712	N	ALA	916	11.293	69.214	33.397	1.00	0.00	N
ATOM	8713	HN	ALA	916	12.125	68.815	32.964	1.00	0.00	H
ATOM	8714	CA	ALA	916	11.051	69.020	34.798	1.00	0.00	C
ATOM	8715	CB	ALA	916	12.172	68.225	35.488	1.00	0.00	C
ATOM	8716	C	ALA	916	10.975	70.354	35.462	1.00	0.00	C
ATOM	8717	O	ALA	916	10.067	70.617	36.253	1.00	0.00	O
ATOM	8718	N	HIS	917	11.901	71.259	35.112	1.00	0.00	N
ATOM	8719	HN	HIS	917	12.581	71.048	34.382	1.00	0.00	H
ATOM	8720	CA	HIS	917	11.920	72.525	35.778	1.00	0.00	C
ATOM	8721	ND1	HIS	917	14.906	73.601	36.906	1.00	0.00	N
ATOM	8722	HD1	HIS	917	14.415	74.151	37.611	1.00	0.00	H
ATOM	8723	CG	HIS	917	14.397	73.164	35.704	1.00	0.00	C
ATOM	8724	CB	HIS	917	13.007	73.471	35.237	1.00	0.00	C
ATOM	8725	NE2	HIS	917	16.535	72.470	35.900	1.00	0.00	N
ATOM	8726	HE2	HIS	917	17.436	72.033	35.704	1.00	0.00	H
ATOM	8727	CD2	HIS	917	15.404	72.473	35.102	1.00	0.00	C
ATOM	8728	CE1	HIS	917	16.188	73.159	36.972	1.00	0.00	C
ATOM	8729	C	HIS	917	10.619	73.254	35.597	1.00	0.00	C

ATOM	8730	O	HIS	917	9.958	73.638	36.562	1.00	0.00	O
ATOM	8731	N	ILE	918	10.178	73.404	34.340	1.00	0.00	N
ATOM	8732	HN	ILE	918	10.674	72.944	33.576	1.00	0.00	H
ATOM	8733	CA	ILE	918	9.020	74.201	34.051	1.00	0.00	C
ATOM	8734	CB	ILE	918	8.765	74.287	32.559	1.00	0.00	C
ATOM	8735	CG1	ILE	918	7.601	75.234	32.204	1.00	0.00	C
ATOM	8736	CG2	ILE	918	8.597	72.862	32.014	1.00	0.00	C
ATOM	8737	CD1	ILE	918	6.214	74.702	32.564	1.00	0.00	C
ATOM	8738	C	ILE	918	7.847	73.623	34.769	1.00	0.00	C
ATOM	8739	O	ILE	918	6.945	74.353	35.178	1.00	0.00	O
ATOM	8740	N	ILE	919	7.822	72.286	34.908	1.00	0.00	N
ATOM	8741	HN	ILE	919	8.607	71.737	34.556	1.00	0.00	H
ATOM	8742	CA	ILE	919	6.723	71.606	35.538	1.00	0.00	C
ATOM	8743	CB	ILE	919	6.839	70.109	35.458	1.00	0.00	C
ATOM	8744	CG1	ILE	919	6.739	69.648	33.995	1.00	0.00	C
ATOM	8745	CG2	ILE	919	5.776	69.488	36.382	1.00	0.00	C
ATOM	8746	CD1	ILE	919	7.074	68.172	33.791	1.00	0.00	C
ATOM	8747	C	ILE	919	6.584	71.949	36.987	1.00	0.00	C
ATOM	8748	O	ILE	919	5.478	72.234	37.446	1.00	0.00	O
ATOM	8749	N	MET	920	7.688	71.954	37.754	1.00	0.00	N
ATOM	8750	HN	MET	920	8.607	71.794	37.342	1.00	0.00	H
ATOM	8751	CA	MET	920	7.549	72.189	39.166	1.00	0.00	C
ATOM	8752	CB	MET	920	8.916	72.223	39.870	1.00	0.00	C
ATOM	8753	CG	MET	920	8.845	72.410	41.386	1.00	0.00	C
ATOM	8754	SD	MET	920	10.469	72.483	42.202	1.00	0.00	S
ATOM	8755	CE	MET	920	10.931	70.773	41.801	1.00	0.00	C
ATOM	8756	C	MET	920	6.921	73.542	39.361	1.00	0.00	C
ATOM	8757	O	MET	920	6.019	73.732	40.180	1.00	0.00	O
ATOM	8758	N	ILE	921	7.372	74.521	38.564	1.00	0.00	N
ATOM	8759	HN	ILE	921	8.053	74.289	37.841	1.00	0.00	H
ATOM	8760	CA	ILE	921	6.934	75.887	38.687	1.00	0.00	C
ATOM	8761	CB	ILE	921	7.700	76.796	37.770	1.00	0.00	C
ATOM	8762	CG1	ILE	921	9.211	76.673	38.041	1.00	0.00	C
ATOM	8763	CG2	ILE	921	7.148	78.221	37.938	1.00	0.00	C
ATOM	8764	CD1	ILE	921	9.613	76.944	39.489	1.00	0.00	C
ATOM	8765	C	ILE	921	5.489	76.044	38.352	1.00	0.00	C
ATOM	8766	O	ILE	921	4.770	76.851	38.947	1.00	0.00	O
ATOM	8767	N	ILE	922	5.052	75.321	37.317	1.00	0.00	N
ATOM	8768	HN	ILE	922	5.698	74.698	36.832	1.00	0.00	H
ATOM	8769	CA	ILE	922	3.699	75.406	36.879	1.00	0.00	C
ATOM	8770	CB	ILE	922	3.434	74.733	35.561	1.00	0.00	C
ATOM	8771	CG1	ILE	922	2.053	75.154	35.034	1.00	0.00	C
ATOM	8772	CG2	ILE	922	3.587	73.216	35.731	1.00	0.00	C
ATOM	8773	CD1	ILE	922	1.799	74.760	33.579	1.00	0.00	C
ATOM	8774	C	ILE	922	2.775	74.832	37.896	1.00	0.00	C
ATOM	8775	O	ILE	922	1.625	75.250	37.977	1.00	0.00	O
ATOM	8776	N	GLU	923	3.209	73.814	38.656	1.00	0.00	N
ATOM	8777	HN	GLU	923	4.177	73.496	38.613	1.00	0.00	H
ATOM	8778	CA	GLU	923	2.257	73.190	39.533	1.00	0.00	C
ATOM	8779	CB	GLU	923	2.887	72.047	40.333	1.00	0.00	C
ATOM	8780	CG	GLU	923	3.269	70.871	39.437	1.00	0.00	C
ATOM	8781	CD	GLU	923	4.260	70.025	40.210	1.00	0.00	C
ATOM	8782	OE1	GLU	923	5.326	70.583	40.580	1.00	0.00	O
ATOM	8783	OE2	GLU	923	3.970	68.821	40.443	1.00	0.00	O
ATOM	8784	C	GLU	923	1.666	74.176	40.498	1.00	0.00	C
ATOM	8785	O	GLU	923	0.482	74.489	40.392	1.00	0.00	O
ATOM	8786	N	LYS	924	2.500	74.760	41.384	1.00	0.00	N
ATOM	8787	HN	LYS	924	3.484	74.493	41.339	1.00	0.00	H
ATOM	8788	CA	LYS	924	2.126	75.733	42.395	1.00	0.00	C
ATOM	8789	CB	LYS	924	2.457	77.182	41.981	1.00	0.00	C
ATOM	8790	CG	LYS	924	1.862	77.602	40.635	1.00	0.00	C
ATOM	8791	CD	LYS	924	0.339	77.711	40.647	1.00	0.00	C
ATOM	8792	CE	LYS	924	-0.250	78.260	39.347	1.00	0.00	C
ATOM	8793	NZ	LYS	924	-0.164	77.245	38.275	1.00	0.00	N
ATOM	8794	HZ1	LYS	924	-0.557	77.611	37.408	1.00	0.00	H
ATOM	8795	HZ2	LYS	924	-0.601	76.365	38.549	1.00	0.00	H
ATOM	8796	HZ3	LYS	924	0.790	76.907	38.147	1.00	0.00	H
ATOM	8797	C	LYS	924	0.689	75.654	42.927	1.00	0.00	C
ATOM	8798	O	LYS	924	0.026	74.620	42.852	1.00	0.00	O
ATOM	8799	N	THR	925	0.228	76.734	43.631	1.00	0.00	N
ATOM	8800	HN	THR	925	0.872	77.509	43.791	1.00	0.00	H
ATOM	8801	CA	THR	925	-1.122	76.848	44.166	1.00	0.00	C
ATOM	8802	CB	THR	925	-1.199	76.391	45.600	1.00	0.00	C
ATOM	8803	OG1	THR	925	-2.522	76.533	46.096	1.00	0.00	O

ATOM	8804	HG1	THR	925	-2.571	76.245	47.000	1.00	0.00	H
ATOM	8805	CG2	THR	925	-0.178	77.161	46.461	1.00	0.00	C
ATOM	8806	C	THR	925	-1.615	78.287	44.073	1.00	0.00	C
ATOM	8807	O	THR	925	-1.291	79.118	44.920	1.00	0.00	O
ATOM	8808	N	PRO	926	-2.483	78.586	43.127	1.00	0.00	N
ATOM	8809	CA	PRO	926	-2.934	79.938	42.834	1.00	0.00	C
ATOM	8810	CD	PRO	926	-3.392	77.582	42.602	1.00	0.00	C
ATOM	8811	CB	PRO	926	-4.095	79.782	41.853	1.00	0.00	C
ATOM	8812	CG	PRO	926	-4.632	78.369	42.145	1.00	0.00	C
ATOM	8813	C	PRO	926	-3.299	80.746	44.034	1.00	0.00	C
ATOM	8814	O	PRO	926	-2.887	81.898	44.150	1.00	0.00	O
ATOM	8815	N	LEU	927	-4.134	80.188	44.902	1.00	0.00	N
ATOM	8816	HN	LEU	927	-4.577	79.304	44.654	1.00	0.00	H
ATOM	8817	CA	LEU	927	-4.437	80.773	46.166	1.00	0.00	C
ATOM	8818	CB	LEU	927	-3.202	81.084	47.026	1.00	0.00	C
ATOM	8819	CG	LEU	927	-3.608	81.604	48.418	1.00	0.00	C
ATOM	8820	CD1	LEU	927	-4.402	80.539	49.191	1.00	0.00	C
ATOM	8821	CD2	LEU	927	-2.402	82.120	49.211	1.00	0.00	C
ATOM	8822	C	LEU	927	-5.262	82.034	46.076	1.00	0.00	C
ATOM	8823	O	LEU	927	-5.946	82.347	47.049	1.00	0.00	O
ATOM	8824	N	ILE	928	-5.242	82.818	44.964	1.00	0.00	N
ATOM	8825	HN	ILE	928	-4.693	82.569	44.141	1.00	0.00	H
ATOM	8826	CA	ILE	928	-6.044	84.028	45.011	1.00	0.00	C
ATOM	8827	CB	ILE	928	-5.251	85.155	45.646	1.00	0.00	C
ATOM	8828	CG1	ILE	928	-4.642	84.751	46.999	1.00	0.00	C
ATOM	8829	CG2	ILE	928	-6.160	86.371	45.816	1.00	0.00	C
ATOM	8830	CD1	ILE	928	-3.580	85.723	47.506	1.00	0.00	C
ATOM	8831	C	ILE	928	-6.377	84.495	43.606	1.00	0.00	C
ATOM	8832	O	ILE	928	-5.984	85.599	43.216	1.00	0.00	O
ATOM	8833	N	ASP	929	-7.048	83.677	42.767	1.00	0.00	N
ATOM	8834	HN	ASP	929	-7.314	82.732	43.045	1.00	0.00	H
ATOM	8835	CA	ASP	929	-7.372	84.197	41.461	1.00	0.00	C
ATOM	8836	CB	ASP	929	-7.623	83.077	40.438	1.00	0.00	C
ATOM	8837	CG	ASP	929	-7.581	83.681	39.042	1.00	0.00	C
ATOM	8838	OD1	ASP	929	-7.030	84.804	38.891	1.00	0.00	O
ATOM	8839	OD2	ASP	929	-8.100	83.020	38.104	1.00	0.00	O
ATOM	8840	C	ASP	929	-8.596	85.061	41.470	1.00	0.00	C
ATOM	8841	O	ASP	929	-8.548	86.286	41.361	1.00	0.00	O
ATOM	8842	N	SER	930	-9.747	84.400	41.690	1.00	0.00	N
ATOM	8843	HN	SER	930	-9.710	83.399	41.881	1.00	0.00	H
ATOM	8844	CA	SER	930	-11.021	85.051	41.665	1.00	0.00	C
ATOM	8845	CB	SER	930	-11.773	84.902	40.332	1.00	0.00	C
ATOM	8846	OG	SER	930	-13.023	85.572	40.397	1.00	0.00	O
ATOM	8847	HG	SER	930	-13.488	85.480	39.573	1.00	0.00	H
ATOM	8848	C	SER	930	-11.813	84.351	42.699	1.00	0.00	C
ATOM	8849	O	SER	930	-11.464	83.243	43.089	1.00	0.00	O
ATOM	8850	N	TYR	931	-12.843	85.019	43.233	1.00	0.00	N
ATOM	8851	HN	TYR	931	-13.019	85.980	42.939	1.00	0.00	H
ATOM	8852	CA	TYR	931	-13.702	84.419	44.205	1.00	0.00	C
ATOM	8853	CB	TYR	931	-13.147	84.428	45.651	1.00	0.00	C
ATOM	8854	CG	TYR	931	-11.847	83.700	45.744	1.00	0.00	C
ATOM	8855	CD1	TYR	931	-11.798	82.328	45.651	1.00	0.00	C
ATOM	8856	CD2	TYR	931	-10.673	84.393	45.937	1.00	0.00	C
ATOM	8857	CE1	TYR	931	-10.599	81.662	45.738	1.00	0.00	C
ATOM	8858	CE2	TYR	931	-9.470	83.731	46.027	1.00	0.00	C
ATOM	8859	CZ	TYR	931	-9.433	82.361	45.925	1.00	0.00	C
ATOM	8860	OH	TYR	931	-8.209	81.667	46.015	1.00	0.00	O
ATOM	8861	HH	TYR	931	-7.402	82.151	46.144	1.00	0.00	H
ATOM	8862	C	TYR	931	-14.875	85.345	44.249	1.00	0.00	C
ATOM	8863	O	TYR	931	-14.891	86.347	43.536	1.00	0.00	O
ATOM	8864	N	SER	932	-15.957	84.974	44.961	1.00	0.00	N
ATOM	8865	HN	SER	932	-16.046	84.016	45.299	1.00	0.00	H
ATOM	8866	CA	SER	932	-16.984	85.938	45.241	1.00	0.00	C
ATOM	8867	CB	SER	932	-18.360	85.278	45.439	1.00	0.00	C
ATOM	8868	OG	SER	932	-19.344	86.263	45.714	1.00	0.00	O
ATOM	8869	HG	SER	932	-20.193	85.856	45.836	1.00	0.00	H
ATOM	8870	C	SER	932	-16.624	86.661	46.511	1.00	0.00	C
ATOM	8871	O	SER	932	-16.295	87.848	46.521	1.00	0.00	O
ATOM	8872	N	THR	933	-16.746	85.906	47.630	1.00	0.00	N
ATOM	8873	HN	THR	933	-17.101	84.959	47.496	1.00	0.00	H
ATOM	8874	CA	THR	933	-16.435	86.279	48.982	1.00	0.00	C
ATOM	8875	CB	THR	933	-15.049	85.901	49.425	1.00	0.00	C
ATOM	8876	OG1	THR	933	-14.090	86.286	48.459	1.00	0.00	O
ATOM	8877	HG1	THR	933	-13.214	86.047	48.739	1.00	0.00	H



ATOM	8878	CG2	THR	933	-14.998	84.378	49.637	1.00	0.00	C
ATOM	8879	C	THR	933	-16.797	87.702	49.220	1.00	0.00	C
ATOM	8880	O	THR	933	-16.135	88.409	49.980	1.00	0.00	O
ATOM	8881	N	GLU	934	-17.919	88.113	48.600	1.00	0.00	N
ATOM	8882	HN	GLU	934	-18.440	87.421	48.061	1.00	0.00	H
ATOM	8883	CA	GLU	934	-18.437	89.448	48.639	1.00	0.00	C
ATOM	8884	CB	GLU	934	-17.374	90.554	48.836	1.00	0.00	C
ATOM	8885	CG	GLU	934	-16.187	90.517	47.868	1.00	0.00	C
ATOM	8886	CD	GLU	934	-16.489	91.409	46.673	1.00	0.00	C
ATOM	8887	OE1	GLU	934	-16.296	92.649	46.795	1.00	0.00	O
ATOM	8888	OE2	GLU	934	-16.931	90.863	45.628	1.00	0.00	O
ATOM	8889	C	GLU	934	-19.119	89.635	47.331	1.00	0.00	C
ATOM	8890	O	GLU	934	-19.424	88.657	46.660	1.00	0.00	O
ATOM	8891	N	GLY	935	-19.248	90.886	46.862	1.00	0.00	N
ATOM	8892	HN	GLY	935	-18.749	91.643	47.329	1.00	0.00	H
ATOM	8893	CA	GLY	935	-20.063	91.191	45.728	1.00	0.00	C
ATOM	8894	C	GLY	935	-19.993	92.672	45.610	1.00	0.00	C
ATOM	8895	O	GLY	935	-20.729	93.292	44.844	1.00	0.00	O
ATOM	8896	N	LEU	936	-19.076	93.265	46.401	1.00	0.00	N
ATOM	8897	HN	LEU	936	-18.544	92.691	47.055	1.00	0.00	H
ATOM	8898	CA	LEU	936	-18.824	94.676	46.354	1.00	0.00	C
ATOM	8899	CB	LEU	936	-18.230	95.122	44.996	1.00	0.00	C
ATOM	8900	CG	LEU	936	-17.551	96.518	44.919	1.00	0.00	C
ATOM	8901	CD1	LEU	936	-17.227	96.870	43.457	1.00	0.00	C
ATOM	8902	CD2	LEU	936	-18.297	97.647	45.651	1.00	0.00	C
ATOM	8903	C	LEU	936	-20.144	95.345	46.562	1.00	0.00	C
ATOM	8904	O	LEU	936	-20.581	96.184	45.778	1.00	0.00	O
ATOM	8905	N	MET	937	-20.840	94.965	47.646	1.00	0.00	N
ATOM	8906	HN	MET	937	-20.465	94.257	48.277	1.00	0.00	H
ATOM	8907	CA	MET	937	-22.115	95.564	47.907	1.00	0.00	C
ATOM	8908	CB	MET	937	-22.756	95.051	49.205	1.00	0.00	C
ATOM	8909	CG	MET	937	-23.223	93.597	49.093	1.00	0.00	C
ATOM	8910	SD	MET	937	-21.890	92.388	48.824	1.00	0.00	S
ATOM	8911	CE	MET	937	-21.100	92.616	50.442	1.00	0.00	C
ATOM	8912	C	MET	937	-21.924	97.052	47.991	1.00	0.00	C
ATOM	8913	O	MET	937	-20.874	97.559	48.378	1.00	0.00	O
ATOM	8914	N	PRO	938	-22.946	97.757	47.595	1.00	0.00	N
ATOM	8915	CA	PRO	938	-22.878	99.192	47.526	1.00	0.00	C
ATOM	8916	CD	PRO	938	-23.870	97.216	46.611	1.00	0.00	C
ATOM	8917	CB	PRO	938	-24.141	99.626	46.788	1.00	0.00	C
ATOM	8918	CG	PRO	938	-24.437	98.434	45.860	1.00	0.00	C
ATOM	8919	C	PRO	938	-22.665	99.858	48.851	1.00	0.00	C
ATOM	8920	O	PRO	938	-22.411	101.061	48.849	1.00	0.00	O
ATOM	8921	N	ASN	939	-22.886	99.128	49.966	1.00	0.00	N
ATOM	8922	HN	ASN	939	-23.214	98.172	49.826	1.00	0.00	H
ATOM	8923	CA	ASN	939	-22.709	99.553	51.337	1.00	0.00	C
ATOM	8924	CB	ASN	939	-23.604	98.783	52.322	1.00	0.00	C
ATOM	8925	CG	ASN	939	-23.239	97.310	52.248	1.00	0.00	C
ATOM	8926	OD1	ASN	939	-23.597	96.619	51.296	1.00	0.00	O
ATOM	8927	ND2	ASN	939	-22.505	96.811	53.279	1.00	0.00	N
ATOM	8928	1HD2	ASN	939	-22.208	97.384	54.069	1.00	0.00	H
ATOM	8929	2HD2	ASN	939	-22.260	95.822	53.229	1.00	0.00	H
ATOM	8930	C	ASN	939	-21.288	99.437	51.845	1.00	0.00	C
ATOM	8931	O	ASN	939	-20.898	100.159	52.761	1.00	0.00	O
ATOM	8932	N	THR	940	-20.473	98.551	51.240	1.00	0.00	N
ATOM	8933	HN	THR	940	-20.814	98.151	50.366	1.00	0.00	H
ATOM	8934	CA	THR	940	-19.173	98.100	51.683	1.00	0.00	C
ATOM	8935	CB	THR	940	-18.564	97.097	50.751	1.00	0.00	C
ATOM	8936	OG1	THR	940	-17.422	96.508	51.353	1.00	0.00	O
ATOM	8937	HG1	THR	940	-17.036	95.872	50.762	1.00	0.00	H
ATOM	8938	CG2	THR	940	-18.171	97.808	49.444	1.00	0.00	C
ATOM	8939	C	THR	940	-18.200	99.233	51.822	1.00	0.00	C
ATOM	8940	O	THR	940	-17.043	99.031	52.178	1.00	0.00	O
ATOM	8941	N	LEU	941	-18.632	100.438	51.449	1.00	0.00	N
ATOM	8942	HN	LEU	941	-19.607	100.488	51.154	1.00	0.00	H
ATOM	8943	CA	LEU	941	-17.903	101.672	51.409	1.00	0.00	C
ATOM	8944	CB	LEU	941	-18.793	102.779	50.833	1.00	0.00	C
ATOM	8945	CG	LEU	941	-19.311	102.407	49.433	1.00	0.00	C
ATOM	8946	CD1	LEU	941	-20.365	103.402	48.941	1.00	0.00	C
ATOM	8947	CD2	LEU	941	-18.154	102.228	48.438	1.00	0.00	C
ATOM	8948	C	LEU	941	-17.396	102.141	52.755	1.00	0.00	C
ATOM	8949	O	LEU	941	-16.436	102.909	52.781	1.00	0.00	O
ATOM	8950	N	GLU	942	-18.008	101.754	53.901	1.00	0.00	N
ATOM	8951	HN	GLU	942	-18.738	101.042	53.879	1.00	0.00	H

ATOM	8952	CA	GLU	942	-17.616	102.361	55.158	1.00	0.00	C
ATOM	8953	CB	GLU	942	-18.323	101.758	56.382	1.00	0.00	C
ATOM	8954	CG	GLU	942	-19.714	102.347	56.613	1.00	0.00	C
ATOM	8955	CD	GLU	942	-19.487	103.784	57.065	1.00	0.00	C
ATOM	8956	OE1	GLU	942	-18.293	104.168	57.180	1.00	0.00	O
ATOM	8957	OE2	GLU	942	-20.487	104.514	57.299	1.00	0.00	O
ATOM	8958	C	GLU	942	-16.134	102.275	55.407	1.00	0.00	C
ATOM	8959	O	GLU	942	-15.480	103.315	55.470	1.00	0.00	O
ATOM	8960	N	GLY	943	-15.533	101.069	55.460	1.00	0.00	N
ATOM	8961	HN	GLY	943	-16.077	100.208	55.396	1.00	0.00	H
ATOM	8962	CA	GLY	943	-14.104	101.032	55.610	1.00	0.00	C
ATOM	8963	C	GLY	943	-13.629	101.012	57.039	1.00	0.00	C
ATOM	8964	O	GLY	943	-12.601	101.616	57.347	1.00	0.00	O
ATOM	8965	N	ASN	944	-14.350	100.334	57.956	1.00	0.00	N
ATOM	8966	HN	ASN	944	-15.242	99.916	57.692	1.00	0.00	H
ATOM	8967	CA	ASN	944	-13.866	100.197	59.309	1.00	0.00	C
ATOM	8968	CB	ASN	944	-14.983	100.066	60.361	1.00	0.00	C
ATOM	8969	CG	ASN	944	-15.757	101.374	60.462	1.00	0.00	C
ATOM	8970	OD1	ASN	944	-15.426	102.366	59.816	1.00	0.00	O
ATOM	8971	ND2	ASN	944	-16.818	101.380	61.313	1.00	0.00	N
ATOM	8972	1HD2	ASN	944	-17.336	102.256	61.381	1.00	0.00	H
ATOM	8973	2HD2	ASN	944	-17.093	100.557	61.849	1.00	0.00	H
ATOM	8974	C	ASN	944	-13.096	98.903	59.355	1.00	0.00	C
ATOM	8975	O	ASN	944	-13.645	97.850	59.035	1.00	0.00	O
ATOM	8976	N	VAL	945	-11.803	98.938	59.762	1.00	0.00	N
ATOM	8977	HN	VAL	945	-11.400	99.813	60.097	1.00	0.00	H
ATOM	8978	CA	VAL	945	-10.993	97.741	59.724	1.00	0.00	C
ATOM	8979	CB	VAL	945	-9.570	98.009	59.318	1.00	0.00	C
ATOM	8980	CG1	VAL	945	-8.791	96.682	59.342	1.00	0.00	C
ATOM	8981	CG2	VAL	945	-9.566	98.715	57.949	1.00	0.00	C
ATOM	8982	C	VAL	945	-10.957	97.043	61.057	1.00	0.00	C
ATOM	8983	O	VAL	945	-10.827	97.673	62.106	1.00	0.00	O
ATOM	8984	N	THR	946	-11.054	95.692	61.061	1.00	0.00	N
ATOM	8985	HN	THR	946	-11.150	95.166	60.193	1.00	0.00	H
ATOM	8986	CA	THR	946	-11.016	95.029	62.333	1.00	0.00	C
ATOM	8987	CB	THR	946	-12.328	94.434	62.775	1.00	0.00	C
ATOM	8988	OG1	THR	946	-12.262	94.086	64.151	1.00	0.00	O
ATOM	8989	HG1	THR	946	-12.072	94.860	64.668	1.00	0.00	H
ATOM	8990	CG2	THR	946	-12.634	93.185	61.941	1.00	0.00	C
ATOM	8991	C	THR	946	-9.976	93.955	62.343	1.00	0.00	C
ATOM	8992	O	THR	946	-9.932	93.104	61.459	1.00	0.00	O
ATOM	8993	N	PHE	947	-9.086	93.978	63.356	1.00	0.00	N
ATOM	8994	HN	PHE	947	-9.105	94.744	64.030	1.00	0.00	H
ATOM	8995	CA	PHE	947	-8.114	92.934	63.492	1.00	0.00	C
ATOM	8996	CB	PHE	947	-6.644	93.389	63.582	1.00	0.00	C
ATOM	8997	CG	PHE	947	-6.090	93.578	62.215	1.00	0.00	C
ATOM	8998	CD1	PHE	947	-5.831	92.470	61.444	1.00	0.00	C
ATOM	8999	CD2	PHE	947	-5.795	94.825	61.715	1.00	0.00	C
ATOM	9000	CE1	PHE	947	-5.310	92.594	60.181	1.00	0.00	C
ATOM	9001	CE2	PHE	947	-5.272	94.955	60.449	1.00	0.00	C
ATOM	9002	CZ	PHE	947	-5.031	93.841	59.679	1.00	0.00	C
ATOM	9003	C	PHE	947	-8.379	92.221	64.773	1.00	0.00	C
ATOM	9004	O	PHE	947	-8.378	92.819	65.850	1.00	0.00	O
ATOM	9005	N	GLY	948	-8.578	90.894	64.693	1.00	0.00	N
ATOM	9006	HN	GLY	948	-8.535	90.406	63.798	1.00	0.00	H
ATOM	9007	CA	GLY	948	-8.852	90.193	65.907	1.00	0.00	C
ATOM	9008	C	GLY	948	-8.024	88.949	65.965	1.00	0.00	C
ATOM	9009	O	GLY	948	-7.977	88.147	65.035	1.00	0.00	O
ATOM	9010	N	GLU	949	-7.327	88.801	67.100	1.00	0.00	N
ATOM	9011	HN	GLU	949	-7.355	89.583	67.754	1.00	0.00	H
ATOM	9012	CA	GLU	949	-6.548	87.669	67.496	1.00	0.00	C
ATOM	9013	CB	GLU	949	-7.344	86.353	67.450	1.00	0.00	C
ATOM	9014	CG	GLU	949	-8.509	86.308	68.440	1.00	0.00	C
ATOM	9015	CD	GLU	949	-9.612	87.203	67.895	1.00	0.00	C
ATOM	9016	OE1	GLU	949	-9.941	87.068	66.686	1.00	0.00	O
ATOM	9017	OE2	GLU	949	-10.135	88.039	68.679	1.00	0.00	O
ATOM	9018	C	GLU	949	-5.349	87.500	66.626	1.00	0.00	C
ATOM	9019	O	GLU	949	-4.409	86.851	67.080	1.00	0.00	O
ATOM	9020	N	VAL	950	-5.288	88.233	65.483	1.00	0.00	N
ATOM	9021	HN	VAL	950	-5.991	88.961	65.355	1.00	0.00	H
ATOM	9022	CA	VAL	950	-4.309	88.064	64.436	1.00	0.00	C
ATOM	9023	CB	VAL	950	-4.141	89.274	63.562	1.00	0.00	C
ATOM	9024	CG1	VAL	950	-5.384	89.393	62.681	1.00	0.00	C
ATOM	9025	CG2	VAL	950	-3.949	90.516	64.447	1.00	0.00	C

ATOM	9026	C	VAL	950	-2.968	87.648	64.948	1.00	0.00	C
ATOM	9027	O	VAL	950	-2.282	88.370	65.669	1.00	0.00	O
ATOM	9028	N	VAL	951	-2.597	86.406	64.578	1.00	0.00	N
ATOM	9029	HN	VAL	951	-3.229	85.870	63.983	1.00	0.00	H
ATOM	9030	CA	VAL	951	-1.362	85.800	64.976	1.00	0.00	C
ATOM	9031	CB	VAL	951	-1.583	84.566	65.795	1.00	0.00	C
ATOM	9032	CG1	VAL	951	-0.220	83.994	66.172	1.00	0.00	C
ATOM	9033	CG2	VAL	951	-2.474	84.902	66.999	1.00	0.00	C
ATOM	9034	C	VAL	951	-0.716	85.357	63.696	1.00	0.00	C
ATOM	9035	O	VAL	951	-1.395	84.771	62.856	1.00	0.00	O
ATOM	9036	N	PHE	952	0.601	85.614	63.493	1.00	0.00	N
ATOM	9037	HN	PHE	952	1.180	86.050	64.211	1.00	0.00	H
ATOM	9038	CA	PHE	952	1.140	85.238	62.208	1.00	0.00	C
ATOM	9039	CB	PHE	952	0.420	86.026	61.096	1.00	0.00	C
ATOM	9040	CG	PHE	952	1.275	86.094	59.883	1.00	0.00	C
ATOM	9041	CD1	PHE	952	1.333	85.067	58.969	1.00	0.00	C
ATOM	9042	CD2	PHE	952	2.020	87.231	59.668	1.00	0.00	C
ATOM	9043	CE1	PHE	952	2.137	85.179	57.859	1.00	0.00	C
ATOM	9044	CE2	PHE	952	2.824	87.348	58.562	1.00	0.00	C
ATOM	9045	CZ	PHE	952	2.883	86.317	57.655	1.00	0.00	C
ATOM	9046	C	PHE	952	2.626	85.473	62.066	1.00	0.00	C
ATOM	9047	O	PHE	952	3.179	86.419	62.627	1.00	0.00	O
ATOM	9048	N	ASN	953	3.308	84.591	61.284	1.00	0.00	N
ATOM	9049	HN	ASN	953	2.806	83.787	60.907	1.00	0.00	H
ATOM	9050	CA	ASN	953	4.708	84.739	60.963	1.00	0.00	C
ATOM	9051	CB	ASN	953	5.657	83.898	61.828	1.00	0.00	C
ATOM	9052	CG	ASN	953	7.074	84.284	61.423	1.00	0.00	C
ATOM	9053	OD1	ASN	953	7.729	83.578	60.658	1.00	0.00	O
ATOM	9054	ND2	ASN	953	7.548	85.459	61.917	1.00	0.00	N
ATOM	9055	1HD2	ASN	953	7.005	86.045	62.551	1.00	0.00	H
ATOM	9056	2HD2	ASN	953	8.497	85.717	61.646	1.00	0.00	H
ATOM	9057	C	ASN	953	4.934	84.308	59.538	1.00	0.00	C
ATOM	9058	O	ASN	953	4.670	83.162	59.174	1.00	0.00	O
ATOM	9059	N	TYR	954	5.496	85.209	58.700	1.00	0.00	N
ATOM	9060	HN	TYR	954	5.780	86.121	59.057	1.00	0.00	H
ATOM	9061	CA	TYR	954	5.698	84.894	57.309	1.00	0.00	C
ATOM	9062	CB	TYR	954	6.294	86.049	56.473	1.00	0.00	C
ATOM	9063	CG	TYR	954	7.623	86.461	57.014	1.00	0.00	C
ATOM	9064	CD1	TYR	954	7.711	87.191	58.178	1.00	0.00	C
ATOM	9065	CD2	TYR	954	8.779	86.146	56.338	1.00	0.00	C
ATOM	9066	CE1	TYR	954	8.935	87.580	58.672	1.00	0.00	C
ATOM	9067	CE2	TYR	954	10.005	86.533	56.826	1.00	0.00	C
ATOM	9068	CZ	TYR	954	10.086	87.249	57.995	1.00	0.00	C
ATOM	9069	OH	TYR	954	11.345	87.645	58.495	1.00	0.00	O
ATOM	9070	HH	TYR	954	12.140	87.416	58.028	1.00	0.00	H
ATOM	9071	C	TYR	954	6.584	83.703	57.230	1.00	0.00	C
ATOM	9072	O	TYR	954	7.614	83.643	57.897	1.00	0.00	O
ATOM	9073	N	PRO	955	6.195	82.774	56.388	1.00	0.00	N
ATOM	9074	CA	PRO	955	6.793	81.473	56.283	1.00	0.00	C
ATOM	9075	CD	PRO	955	5.123	82.972	55.429	1.00	0.00	C
ATOM	9076	CB	PRO	955	6.246	80.858	54.996	1.00	0.00	C
ATOM	9077	CG	PRO	955	4.900	81.582	54.801	1.00	0.00	C
ATOM	9078	C	PRO	955	8.276	81.464	56.403	1.00	0.00	C
ATOM	9079	O	PRO	955	9.010	81.664	55.437	1.00	0.00	O
ATOM	9080	N	THR	956	8.677	81.259	57.662	1.00	0.00	N
ATOM	9081	HN	THR	956	7.912	81.208	58.335	1.00	0.00	H
ATOM	9082	CA	THR	956	9.965	81.098	58.243	1.00	0.00	C
ATOM	9083	CB	THR	956	10.839	82.305	58.086	1.00	0.00	C
ATOM	9084	OG1	THR	956	12.136	82.046	58.605	1.00	0.00	O
ATOM	9085	HG1	THR	956	12.690	82.811	58.505	1.00	0.00	H
ATOM	9086	CG2	THR	956	10.191	83.488	58.824	1.00	0.00	C
ATOM	9087	C	THR	956	9.549	81.021	59.674	1.00	0.00	C
ATOM	9088	O	THR	956	10.278	81.394	60.592	1.00	0.00	O
ATOM	9089	N	ARG	957	8.363	80.406	59.854	1.00	0.00	N
ATOM	9090	HN	ARG	957	7.992	79.929	59.032	1.00	0.00	H
ATOM	9091	CA	ARG	957	7.544	80.323	61.031	1.00	0.00	C
ATOM	9092	CB	ARG	957	6.311	79.423	60.821	1.00	0.00	C
ATOM	9093	CG	ARG	957	5.367	79.966	59.744	1.00	0.00	C
ATOM	9094	CD	ARG	957	4.231	79.021	59.341	1.00	0.00	C
ATOM	9095	NE	ARG	957	3.034	79.359	60.161	1.00	0.00	N
ATOM	9096	HE	ARG	957	2.441	80.146	59.896	1.00	0.00	H
ATOM	9097	CZ	ARG	957	2.729	78.618	61.266	1.00	0.00	C
ATOM	9098	NH1	ARG	957	3.500	77.542	61.596	1.00	0.00	N
ATOM	9099	1HH1	ARG	957	3.272	76.988	62.422	1.00	0.00	H

ATOM	9100	2HH1	ARG	957	4.308	77.297	61.024	1.00	0.00	H
ATOM	9101	NH2	ARG	957	1.648	78.945	62.031	1.00	0.00	N
ATOM	9102	1HH2	ARG	957	1.420	78.391	62.857	1.00	0.00	H
ATOM	9103	2HH2	ARG	957	1.072	79.749	61.784	1.00	0.00	H
ATOM	9104	C	ARG	957	8.318	79.797	62.202	1.00	0.00	C
ATOM	9105	O	ARG	957	7.916	80.090	63.325	1.00	0.00	O
ATOM	9106	N	PRO	958	9.362	79.026	62.074	1.00	0.00	N
ATOM	9107	CA	PRO	958	10.058	78.612	63.260	1.00	0.00	C
ATOM	9108	CD	PRO	958	9.530	78.045	61.016	1.00	0.00	C
ATOM	9109	CB	PRO	958	11.110	77.598	62.798	1.00	0.00	C
ATOM	9110	CG	PRO	958	10.954	77.531	61.262	1.00	0.00	C
ATOM	9111	C	PRO	958	10.588	79.795	64.012	1.00	0.00	C
ATOM	9112	O	PRO	958	10.868	79.675	65.203	1.00	0.00	O
ATOM	9113	N	ASP	959	10.723	80.941	63.329	1.00	0.00	N
ATOM	9114	HN	ASP	959	10.491	80.929	62.336	1.00	0.00	H
ATOM	9115	CA	ASP	959	11.169	82.182	63.891	1.00	0.00	C
ATOM	9116	CB	ASP	959	11.377	83.285	62.838	1.00	0.00	C
ATOM	9117	CG	ASP	959	12.085	84.457	63.509	1.00	0.00	C
ATOM	9118	OD1	ASP	959	12.543	84.291	64.671	1.00	0.00	O
ATOM	9119	OD2	ASP	959	12.180	85.536	62.865	1.00	0.00	O
ATOM	9120	C	ASP	959	10.093	82.650	64.820	1.00	0.00	C
ATOM	9121	O	ASP	959	10.208	83.690	65.464	1.00	0.00	O
ATOM	9122	N	ILE	960	8.941	81.958	64.830	1.00	0.00	N
ATOM	9123	HN	ILE	960	8.834	81.124	64.252	1.00	0.00	H
ATOM	9124	CA	ILE	960	7.866	82.407	65.663	1.00	0.00	C
ATOM	9125	CB	ILE	960	8.235	82.700	67.093	1.00	0.00	C
ATOM	9126	CG1	ILE	960	8.691	81.409	67.798	1.00	0.00	C
ATOM	9127	CG2	ILE	960	7.033	83.377	67.776	1.00	0.00	C
ATOM	9128	CD1	ILE	960	9.324	81.650	69.167	1.00	0.00	C
ATOM	9129	C	ILE	960	7.323	83.640	65.019	1.00	0.00	C
ATOM	9130	O	ILE	960	8.017	84.341	64.284	1.00	0.00	O
ATOM	9131	N	PRO	961	6.055	83.844	65.211	1.00	0.00	N
ATOM	9132	CA	PRO	961	5.389	84.968	64.605	1.00	0.00	C
ATOM	9133	CD	PRO	961	5.175	82.691	65.331	1.00	0.00	C
ATOM	9134	CB	PRO	961	3.901	84.637	64.683	1.00	0.00	C
ATOM	9135	CG	PRO	961	3.856	83.102	64.669	1.00	0.00	C
ATOM	9136	C	PRO	961	5.701	86.327	65.163	1.00	0.00	C
ATOM	9137	O	PRO	961	6.061	86.449	66.333	1.00	0.00	O
ATOM	9138	N	VAL	962	5.619	87.350	64.286	1.00	0.00	N
ATOM	9139	HN	VAL	962	5.443	87.092	63.315	1.00	0.00	H
ATOM	9140	CA	VAL	962	5.749	88.756	64.549	1.00	0.00	C
ATOM	9141	CB	VAL	962	5.919	89.539	63.280	1.00	0.00	C
ATOM	9142	CG1	VAL	962	6.044	91.025	63.633	1.00	0.00	C
ATOM	9143	CG2	VAL	962	7.104	88.969	62.484	1.00	0.00	C
ATOM	9144	C	VAL	962	4.475	89.231	65.180	1.00	0.00	C
ATOM	9145	O	VAL	962	4.454	90.261	65.851	1.00	0.00	O
ATOM	9146	N	LEU	963	3.357	88.538	64.878	1.00	0.00	N
ATOM	9147	HN	LEU	963	3.421	87.728	64.262	1.00	0.00	H
ATOM	9148	CA	LEU	963	2.079	88.922	65.409	1.00	0.00	C
ATOM	9149	CB	LEU	963	0.990	89.111	64.335	1.00	0.00	C
ATOM	9150	CG	LEU	963	1.331	90.195	63.298	1.00	0.00	C
ATOM	9151	CD1	LEU	963	1.536	91.562	63.971	1.00	0.00	C
ATOM	9152	CD2	LEU	963	2.514	89.772	62.413	1.00	0.00	C
ATOM	9153	C	LEU	963	1.606	87.811	66.281	1.00	0.00	C
ATOM	9154	O	LEU	963	1.291	86.723	65.803	1.00	0.00	O
ATOM	9155	N	GLN	964	1.524	88.068	67.597	1.00	0.00	N
ATOM	9156	HN	GLN	964	1.745	88.998	67.951	1.00	0.00	H
ATOM	9157	CA	GLN	964	1.126	87.034	68.498	1.00	0.00	C
ATOM	9158	CB	GLN	964	2.238	86.746	69.512	1.00	0.00	C
ATOM	9159	CG	GLN	964	1.907	85.661	70.525	1.00	0.00	C
ATOM	9160	CD	GLN	964	3.069	85.613	71.503	1.00	0.00	C
ATOM	9161	OE1	GLN	964	4.227	85.508	71.101	1.00	0.00	O
ATOM	9162	NE2	GLN	964	2.760	85.711	72.824	1.00	0.00	N
ATOM	9163	1HE2	GLN	964	3.540	85.679	73.480	1.00	0.00	H
ATOM	9164	2HE2	GLN	964	1.800	85.798	73.157	1.00	0.00	H
ATOM	9165	C	GLN	964	-0.053	87.516	69.284	1.00	0.00	C
ATOM	9166	O	GLN	964	0.118	88.098	70.354	1.00	0.00	O
ATOM	9167	N	GLY	965	-1.285	87.231	68.809	1.00	0.00	N
ATOM	9168	HN	GLY	965	-1.386	86.734	67.924	1.00	0.00	H
ATOM	9169	CA	GLY	965	-2.455	87.625	69.546	1.00	0.00	C
ATOM	9170	C	GLY	965	-2.689	89.103	69.428	1.00	0.00	C
ATOM	9171	O	GLY	965	-2.866	89.786	70.436	1.00	0.00	O
ATOM	9172	N	LEU	966	-2.707	89.634	68.188	1.00	0.00	N
ATOM	9173	HN	LEU	966	-2.600	89.021	67.379	1.00	0.00	H

ATOM	9174	CA	LEU	966	-2.874	91.049	67.985	1.00	0.00	C
ATOM	9175	CB	LEU	966	-2.040	91.571	66.804	1.00	0.00	C
ATOM	9176	CG	LEU	966	-2.203	93.077	66.553	1.00	0.00	C
ATOM	9177	CD1	LEU	966	-1.711	93.887	67.759	1.00	0.00	C
ATOM	9178	CD2	LEU	966	-1.536	93.496	65.233	1.00	0.00	C
ATOM	9179	C	LEU	966	-4.309	91.382	67.682	1.00	0.00	C
ATOM	9180	O	LEU	966	-5.005	90.616	67.017	1.00	0.00	O
ATOM	9181	N	SER	967	-4.796	92.539	68.199	1.00	0.00	N
ATOM	9182	HN	SER	967	-4.201	93.105	68.805	1.00	0.00	H
ATOM	9183	CA	SER	967	-6.135	92.984	67.910	1.00	0.00	C
ATOM	9184	CB	SER	967	-7.186	92.397	68.867	1.00	0.00	C
ATOM	9185	OG	SER	967	-7.235	90.985	68.724	1.00	0.00	O
ATOM	9186	HG	SER	967	-7.884	90.622	69.315	1.00	0.00	H
ATOM	9187	C	SER	967	-6.217	94.489	68.019	1.00	0.00	C
ATOM	9188	O	SER	967	-5.918	95.069	69.063	1.00	0.00	O
ATOM	9189	N	LEU	968	-6.657	95.157	66.927	1.00	0.00	N
ATOM	9190	HN	LEU	968	-6.894	94.618	66.094	1.00	0.00	H
ATOM	9191	CA	LEU	968	-6.808	96.591	66.878	1.00	0.00	C
ATOM	9192	CB	LEU	968	-5.637	97.325	66.203	1.00	0.00	C
ATOM	9193	CG	LEU	968	-4.255	96.964	66.775	1.00	0.00	C
ATOM	9194	CD1	LEU	968	-4.166	97.251	68.281	1.00	0.00	C
ATOM	9195	CD2	LEU	968	-3.866	95.528	66.398	1.00	0.00	C
ATOM	9196	C	LEU	968	-7.997	96.845	66.001	1.00	0.00	C
ATOM	9197	O	LEU	968	-8.729	95.920	65.653	1.00	0.00	O
ATOM	9198	N	GLU	969	-8.249	98.124	65.654	1.00	0.00	N
ATOM	9199	HN	GLU	969	-7.668	98.876	66.025	1.00	0.00	H
ATOM	9200	CA	GLU	969	-9.334	98.430	64.762	1.00	0.00	C
ATOM	9201	CB	GLU	969	-10.708	98.478	65.433	1.00	0.00	C
ATOM	9202	CG	GLU	969	-10.825	99.727	66.308	1.00	0.00	C
ATOM	9203	CD	GLU	969	-12.283	99.975	66.644	1.00	0.00	C
ATOM	9204	OE1	GLU	969	-13.142	99.889	65.725	1.00	0.00	O
ATOM	9205	OE2	GLU	969	-12.553	100.266	67.837	1.00	0.00	O
ATOM	9206	C	GLU	969	-9.145	99.843	64.315	1.00	0.00	C
ATOM	9207	O	GLU	969	-8.285	100.562	64.822	1.00	0.00	O
ATOM	9208	N	VAL	970	-9.949	100.271	63.323	1.00	0.00	N
ATOM	9209	HN	VAL	970	-10.596	99.622	62.876	1.00	0.00	H
ATOM	9210	CA	VAL	970	-9.896	101.637	62.895	1.00	0.00	C
ATOM	9211	CB	VAL	970	-8.935	101.852	61.752	1.00	0.00	C
ATOM	9212	CG1	VAL	970	-9.430	101.086	60.513	1.00	0.00	C
ATOM	9213	CG2	VAL	970	-8.755	103.361	61.527	1.00	0.00	C
ATOM	9214	C	VAL	970	-11.276	102.031	62.451	1.00	0.00	C
ATOM	9215	O	VAL	970	-11.910	101.340	61.654	1.00	0.00	O
ATOM	9216	N	LYS	971	-11.762	103.193	62.932	1.00	0.00	N
ATOM	9217	HN	LYS	971	-11.176	103.747	63.557	1.00	0.00	H
ATOM	9218	CA	LYS	971	-13.072	103.684	62.600	1.00	0.00	C
ATOM	9219	CB	LYS	971	-13.472	104.946	63.380	1.00	0.00	C
ATOM	9220	CG	LYS	971	-13.649	104.702	64.879	1.00	0.00	C
ATOM	9221	CD	LYS	971	-12.342	104.357	65.597	1.00	0.00	C
ATOM	9222	CE	LYS	971	-12.506	104.139	67.102	1.00	0.00	C
ATOM	9223	NZ	LYS	971	-11.203	103.781	67.703	1.00	0.00	N
ATOM	9224	HZ1	LYS	971	-11.312	103.636	68.707	1.00	0.00	H
ATOM	9225	HZ2	LYS	971	-10.482	104.470	67.492	1.00	0.00	H
ATOM	9226	HZ3	LYS	971	-10.777	102.976	67.243	1.00	0.00	H
ATOM	9227	C	LYS	971	-13.076	104.030	61.145	1.00	0.00	C
ATOM	9228	O	LYS	971	-12.256	103.532	60.376	1.00	0.00	O
ATOM	9229	N	LYS	972	-14.053	104.847	60.704	1.00	0.00	N
ATOM	9230	HN	LYS	972	-14.751	105.230	61.341	1.00	0.00	H
ATOM	9231	CA	LYS	972	-14.072	105.156	59.305	1.00	0.00	C
ATOM	9232	CB	LYS	972	-15.414	104.841	58.613	1.00	0.00	C
ATOM	9233	CG	LYS	972	-16.633	105.589	59.159	1.00	0.00	C
ATOM	9234	CD	LYS	972	-16.738	107.049	58.718	1.00	0.00	C
ATOM	9235	CE	LYS	972	-17.295	107.218	57.303	1.00	0.00	C
ATOM	9236	NZ	LYS	972	-17.485	108.652	56.995	1.00	0.00	N
ATOM	9237	HZ1	LYS	972	-17.856	108.765	56.052	1.00	0.00	H
ATOM	9238	HZ2	LYS	972	-16.628	109.188	57.133	1.00	0.00	H
ATOM	9239	HZ3	LYS	972	-18.067	109.117	57.691	1.00	0.00	H
ATOM	9240	C	LYS	972	-13.720	106.595	59.084	1.00	0.00	C
ATOM	9241	O	LYS	972	-13.704	107.409	60.004	1.00	0.00	O
ATOM	9242	N	GLY	973	-13.311	106.905	57.839	1.00	0.00	N
ATOM	9243	HN	GLY	973	-13.195	106.147	57.166	1.00	0.00	H
ATOM	9244	CA	GLY	973	-13.029	108.244	57.408	1.00	0.00	C
ATOM	9245	C	GLY	973	-12.041	108.880	58.339	1.00	0.00	C
ATOM	9246	O	GLY	973	-12.003	110.105	58.439	1.00	0.00	O
ATOM	9247	N	GLN	974	-11.190	108.084	59.020	1.00	0.00	N

ATOM	9248	HN	GLN	974	-11.168	107.081	58.836	1.00	0.00	H
ATOM	9249	CA	GLN	974	-10.314	108.658	60.007	1.00	0.00	C
ATOM	9250	CB	GLN	974	-10.870	108.503	61.437	1.00	0.00	C
ATOM	9251	CG	GLN	974	-11.457	107.127	61.767	1.00	0.00	C
ATOM	9252	CD	GLN	974	-10.388	106.057	61.753	1.00	0.00	C
ATOM	9253	OE1	GLN	974	-9.788	105.772	60.718	1.00	0.00	O
ATOM	9254	NE2	GLN	974	-10.160	105.426	62.936	1.00	0.00	N
ATOM	9255	1HE2	GLN	974	-9.439	104.704	62.927	1.00	0.00	H
ATOM	9256	2HE2	GLN	974	-10.658	105.662	63.794	1.00	0.00	H
ATOM	9257	C	GLN	974	-8.876	108.218	59.878	1.00	0.00	C
ATOM	9258	O	GLN	974	-8.392	107.991	58.770	1.00	0.00	O
ATOM	9259	N	THR	975	-8.111	108.189	61.002	1.00	0.00	N
ATOM	9260	HN	THR	975	-8.513	108.393	61.917	1.00	0.00	H
ATOM	9261	CA	THR	975	-6.711	107.860	60.860	1.00	0.00	C
ATOM	9262	CB	THR	975	-5.835	109.082	60.817	1.00	0.00	C
ATOM	9263	OG1	THR	975	-6.227	109.930	59.748	1.00	0.00	O
ATOM	9264	HG1	THR	975	-5.674	110.702	59.721	1.00	0.00	H
ATOM	9265	CG2	THR	975	-4.372	108.644	60.627	1.00	0.00	C
ATOM	9266	C	THR	975	-6.180	107.001	61.978	1.00	0.00	C
ATOM	9267	O	THR	975	-6.016	107.451	63.114	1.00	0.00	O
ATOM	9268	N	LEU	976	-5.810	105.746	61.645	1.00	0.00	N
ATOM	9269	HN	LEU	976	-5.945	105.422	60.687	1.00	0.00	H
ATOM	9270	CA	LEU	976	-5.230	104.858	62.615	1.00	0.00	C
ATOM	9271	CB	LEU	976	-5.531	103.377	62.346	1.00	0.00	C
ATOM	9272	CG	LEU	976	-4.662	102.423	63.179	1.00	0.00	C
ATOM	9273	CD1	LEU	976	-4.615	102.829	64.656	1.00	0.00	C
ATOM	9274	CD2	LEU	976	-5.142	100.979	63.008	1.00	0.00	C
ATOM	9275	C	LEU	976	-3.748	105.064	62.619	1.00	0.00	C
ATOM	9276	O	LEU	976	-3.068	104.850	61.616	1.00	0.00	O
ATOM	9277	N	ALA	977	-3.209	105.478	63.785	1.00	0.00	N
ATOM	9278	HN	ALA	977	-3.807	105.571	64.606	1.00	0.00	H
ATOM	9279	CA	ALA	977	-1.810	105.790	63.894	1.00	0.00	C
ATOM	9280	CB	ALA	977	-1.506	106.961	64.844	1.00	0.00	C
ATOM	9281	C	ALA	977	-1.064	104.600	64.393	1.00	0.00	C
ATOM	9282	O	ALA	977	-1.409	103.997	65.409	1.00	0.00	O
ATOM	9283	N	LEU	978	0.017	104.232	63.683	1.00	0.00	N
ATOM	9284	HN	LEU	978	0.333	104.750	62.863	1.00	0.00	H
ATOM	9285	CA	LEU	978	0.690	103.068	64.155	1.00	0.00	C
ATOM	9286	CB	LEU	978	0.654	101.909	63.145	1.00	0.00	C
ATOM	9287	CG	LEU	978	1.018	100.533	63.732	1.00	0.00	C
ATOM	9288	CD1	LEU	978	2.460	100.484	64.255	1.00	0.00	C
ATOM	9289	CD2	LEU	978	-0.019	100.100	64.781	1.00	0.00	C
ATOM	9290	C	LEU	978	2.114	103.402	64.478	1.00	0.00	C
ATOM	9291	O	LEU	978	2.843	103.974	63.666	1.00	0.00	O
ATOM	9292	N	VAL	979	2.523	103.070	65.721	1.00	0.00	N
ATOM	9293	HN	VAL	979	1.845	102.687	66.380	1.00	0.00	H
ATOM	9294	CA	VAL	979	3.884	103.240	66.142	1.00	0.00	C
ATOM	9295	CB	VAL	979	4.055	104.354	67.140	1.00	0.00	C
ATOM	9296	CG1	VAL	979	3.088	104.135	68.316	1.00	0.00	C
ATOM	9297	CG2	VAL	979	5.535	104.420	67.555	1.00	0.00	C
ATOM	9298	C	VAL	979	4.332	101.946	66.760	1.00	0.00	C
ATOM	9299	O	VAL	979	3.858	101.552	67.826	1.00	0.00	O
ATOM	9300	N	GLY	980	5.257	101.233	66.083	1.00	0.00	N
ATOM	9301	HN	GLY	980	5.620	101.589	65.199	1.00	0.00	H
ATOM	9302	CA	GLY	980	5.736	99.980	66.593	1.00	0.00	C
ATOM	9303	C	GLY	980	7.175	100.103	66.988	1.00	0.00	C
ATOM	9304	O	GLY	980	7.704	101.201	67.167	1.00	0.00	O
ATOM	9305	N	SER	981	7.824	98.932	67.172	1.00	0.00	N
ATOM	9306	HN	SER	981	7.290	98.069	67.065	1.00	0.00	H
ATOM	9307	CA	SER	981	9.217	98.822	67.508	1.00	0.00	C
ATOM	9308	CB	SER	981	9.621	97.370	67.806	1.00	0.00	C
ATOM	9309	OG	SER	981	11.029	97.272	67.937	1.00	0.00	O
ATOM	9310	HG	SER	981	11.279	96.374	68.121	1.00	0.00	H
ATOM	9311	C	SER	981	10.059	99.283	66.362	1.00	0.00	C
ATOM	9312	O	SER	981	10.621	100.378	66.373	1.00	0.00	O
ATOM	9313	N	SER	982	10.159	98.426	65.326	1.00	0.00	N
ATOM	9314	HN	SER	982	9.671	97.531	65.368	1.00	0.00	H
ATOM	9315	CA	SER	982	10.937	98.749	64.169	1.00	0.00	C
ATOM	9316	CB	SER	982	12.439	98.912	64.460	1.00	0.00	C
ATOM	9317	OG	SER	982	12.994	97.673	64.880	1.00	0.00	O
ATOM	9318	HG	SER	982	13.921	97.774	65.060	1.00	0.00	H
ATOM	9319	C	SER	982	10.796	97.620	63.204	1.00	0.00	C
ATOM	9320	O	SER	982	10.504	96.488	63.589	1.00	0.00	O
ATOM	9321	N	GLY	983	10.999	97.921	61.908	1.00	0.00	N

ATOM	9322	HN	GLY	983	11.182	98.891	61.650	1.00	0.00	H
ATOM	9323	CA	GLY	983	10.967	96.926	60.878	1.00	0.00	C
ATOM	9324	C	GLY	983	9.634	96.253	60.841	1.00	0.00	C
ATOM	9325	O	GLY	983	8.606	96.867	60.557	1.00	0.00	O
ATOM	9326	N	CYS	984	9.635	94.942	61.142	1.00	0.00	N
ATOM	9327	HN	CYS	984	10.503	94.509	61.458	1.00	0.00	H
ATOM	9328	CA	CYS	984	8.459	94.135	61.034	1.00	0.00	C
ATOM	9329	CB	CYS	984	8.691	92.655	61.383	1.00	0.00	C
ATOM	9330	SG	CYS	984	9.807	91.823	60.215	1.00	0.00	S
ATOM	9331	C	CYS	984	7.405	94.641	61.958	1.00	0.00	C
ATOM	9332	O	CYS	984	7.646	95.489	62.814	1.00	0.00	O
ATOM	9333	N	GLY	985	6.168	94.160	61.732	1.00	0.00	N
ATOM	9334	HN	GLY	985	6.026	93.539	60.936	1.00	0.00	H
ATOM	9335	CA	GLY	985	5.043	94.480	62.558	1.00	0.00	C
ATOM	9336	C	GLY	985	4.175	95.440	61.819	1.00	0.00	C
ATOM	9337	O	GLY	985	3.024	95.145	61.503	1.00	0.00	O
ATOM	9338	N	LYS	986	4.730	96.617	61.497	1.00	0.00	N
ATOM	9339	HN	LYS	986	5.699	96.804	61.755	1.00	0.00	H
ATOM	9340	CA	LYS	986	3.980	97.617	60.795	1.00	0.00	C
ATOM	9341	CB	LYS	986	4.794	98.902	60.598	1.00	0.00	C
ATOM	9342	CG	LYS	986	5.343	99.477	61.903	1.00	0.00	C
ATOM	9343	CD	LYS	986	6.472	100.482	61.680	1.00	0.00	C
ATOM	9344	CE	LYS	986	7.208	100.869	62.963	1.00	0.00	C
ATOM	9345	NZ	LYS	986	8.427	101.635	62.626	1.00	0.00	N
ATOM	9346	HZ1	LYS	986	8.918	101.893	63.482	1.00	0.00	H
ATOM	9347	HZ2	LYS	986	8.222	102.445	62.041	1.00	0.00	H
ATOM	9348	HZ3	LYS	986	9.029	101.132	61.974	1.00	0.00	H
ATOM	9349	C	LYS	986	3.709	97.082	59.427	1.00	0.00	C
ATOM	9350	O	LYS	986	2.614	97.218	58.881	1.00	0.00	O
ATOM	9351	N	SER	987	4.744	96.458	58.840	1.00	0.00	N
ATOM	9352	HN	SER	987	5.609	96.338	59.367	1.00	0.00	H
ATOM	9353	CA	SER	987	4.676	95.956	57.503	1.00	0.00	C
ATOM	9354	CB	SER	987	6.008	95.343	57.058	1.00	0.00	C
ATOM	9355	OG	SER	987	7.052	96.281	57.257	1.00	0.00	O
ATOM	9356	HG	SER	987	7.878	95.901	56.981	1.00	0.00	H
ATOM	9357	C	SER	987	3.679	94.848	57.453	1.00	0.00	C
ATOM	9358	O	SER	987	2.779	94.854	56.615	1.00	0.00	O
ATOM	9359	N	THR	988	3.806	93.891	58.394	1.00	0.00	N
ATOM	9360	HN	THR	988	4.500	94.017	59.131	1.00	0.00	H
ATOM	9361	CA	THR	988	3.003	92.703	58.399	1.00	0.00	C
ATOM	9362	CB	THR	988	3.337	91.784	59.542	1.00	0.00	C
ATOM	9363	OG1	THR	988	3.118	92.438	60.783	1.00	0.00	O
ATOM	9364	HG1	THR	988	3.329	91.858	61.505	1.00	0.00	H
ATOM	9365	CG2	THR	988	4.810	91.356	59.423	1.00	0.00	C
ATOM	9366	C	THR	988	1.567	93.080	58.519	1.00	0.00	C
ATOM	9367	O	THR	988	0.714	92.507	57.842	1.00	0.00	O
ATOM	9368	N	VAL	989	1.254	94.058	59.386	1.00	0.00	N
ATOM	9369	HN	VAL	989	1.986	94.531	59.916	1.00	0.00	H
ATOM	9370	CA	VAL	989	-0.120	94.429	59.557	1.00	0.00	C
ATOM	9371	CB	VAL	989	-0.297	95.551	60.537	1.00	0.00	C
ATOM	9372	CG1	VAL	989	-1.776	95.969	60.546	1.00	0.00	C
ATOM	9373	CG2	VAL	989	0.223	95.086	61.907	1.00	0.00	C
ATOM	9374	C	VAL	989	-0.659	94.896	58.243	1.00	0.00	C
ATOM	9375	O	VAL	989	-1.670	94.383	57.765	1.00	0.00	O
ATOM	9376	N	VAL	990	0.053	95.831	57.587	1.00	0.00	N
ATOM	9377	HN	VAL	990	0.950	96.134	57.967	1.00	0.00	H
ATOM	9378	CA	VAL	990	-0.425	96.411	56.362	1.00	0.00	C
ATOM	9379	CB	VAL	990	0.600	97.329	55.755	1.00	0.00	C
ATOM	9380	CG1	VAL	990	0.101	97.815	54.385	1.00	0.00	C
ATOM	9381	CG2	VAL	990	0.896	98.458	56.758	1.00	0.00	C
ATOM	9382	C	VAL	990	-0.660	95.303	55.393	1.00	0.00	C
ATOM	9383	O	VAL	990	-1.744	95.161	54.828	1.00	0.00	O
ATOM	9384	N	GLN	991	0.338	94.425	55.250	1.00	0.00	N
ATOM	9385	HN	GLN	991	1.170	94.508	55.834	1.00	0.00	H
ATOM	9386	CA	GLN	991	0.253	93.374	54.291	1.00	0.00	C
ATOM	9387	CB	GLN	991	1.535	92.528	54.315	1.00	0.00	C
ATOM	9388	CG	GLN	991	2.718	93.358	53.805	1.00	0.00	C
ATOM	9389	CD	GLN	991	4.031	92.789	54.318	1.00	0.00	C
ATOM	9390	OE1	GLN	991	5.018	93.512	54.446	1.00	0.00	O
ATOM	9391	NE2	GLN	991	4.050	91.468	54.634	1.00	0.00	N
ATOM	9392	1HE2	GLN	991	3.232	90.869	54.528	1.00	0.00	H
ATOM	9393	2HE2	GLN	991	4.931	91.086	54.978	1.00	0.00	H
ATOM	9394	C	GLN	991	-0.949	92.547	54.607	1.00	0.00	C
ATOM	9395	O	GLN	991	-1.734	92.248	53.714	1.00	0.00	O

ATOM	9396	N	LEU	992	-1.199	92.253	55.895	1.00	0.00	N
ATOM	9397	HN	LEU	992	-0.605	92.647	56.625	1.00	0.00	H
ATOM	9398	CA	LEU	992	-2.291	91.392	56.257	1.00	0.00	C
ATOM	9399	CB	LEU	992	-2.452	91.234	57.780	1.00	0.00	C
ATOM	9400	CG	LEU	992	-1.304	90.444	58.438	1.00	0.00	C
ATOM	9401	CD1	LEU	992	-1.506	90.311	59.956	1.00	0.00	C
ATOM	9402	CD2	LEU	992	-1.111	89.081	57.753	1.00	0.00	C
ATOM	9403	C	LEU	992	-3.579	91.954	55.728	1.00	0.00	C
ATOM	9404	O	LEU	992	-4.443	91.200	55.287	1.00	0.00	O
ATOM	9405	N	LEU	993	-3.749	93.290	55.772	1.00	0.00	N
ATOM	9406	HN	LEU	993	-3.007	93.866	56.169	1.00	0.00	H
ATOM	9407	CA	LEU	993	-4.941	93.937	55.279	1.00	0.00	C
ATOM	9408	CB	LEU	993	-4.834	95.472	55.418	1.00	0.00	C
ATOM	9409	CG	LEU	993	-6.060	96.316	54.996	1.00	0.00	C
ATOM	9410	CD1	LEU	993	-6.418	96.199	53.506	1.00	0.00	C
ATOM	9411	CD2	LEU	993	-7.252	96.058	55.921	1.00	0.00	C
ATOM	9412	C	LEU	993	-5.006	93.644	53.815	1.00	0.00	C
ATOM	9413	O	LEU	993	-6.067	93.373	53.252	1.00	0.00	O
ATOM	9414	N	GLU	994	-3.832	93.719	53.173	1.00	0.00	N
ATOM	9415	HN	GLU	994	-3.014	93.996	53.715	1.00	0.00	H
ATOM	9416	CA	GLU	994	-3.642	93.439	51.785	1.00	0.00	C
ATOM	9417	CB	GLU	994	-2.236	93.789	51.273	1.00	0.00	C
ATOM	9418	CG	GLU	994	-2.053	95.288	51.029	1.00	0.00	C
ATOM	9419	CD	GLU	994	-2.830	95.644	49.766	1.00	0.00	C
ATOM	9420	OE1	GLU	994	-3.912	95.041	49.531	1.00	0.00	O
ATOM	9421	OE2	GLU	994	-2.338	96.524	49.011	1.00	0.00	O
ATOM	9422	C	GLU	994	-3.871	91.975	51.601	1.00	0.00	C
ATOM	9423	O	GLU	994	-3.901	91.469	50.483	1.00	0.00	O
ATOM	9424	N	ARG	995	-3.921	91.238	52.721	1.00	0.00	N
ATOM	9425	HN	ARG	995	-3.784	91.698	53.621	1.00	0.00	H
ATOM	9426	CA	ARG	995	-4.160	89.829	52.695	1.00	0.00	C
ATOM	9427	CB	ARG	995	-5.564	89.461	52.171	1.00	0.00	C
ATOM	9428	CG	ARG	995	-5.867	87.959	52.199	1.00	0.00	C
ATOM	9429	CD	ARG	995	-7.240	87.588	51.636	1.00	0.00	C
ATOM	9430	NE	ARG	995	-7.310	86.100	51.578	1.00	0.00	N
ATOM	9431	HE	ARG	995	-6.474	85.545	51.763	1.00	0.00	H
ATOM	9432	CZ	ARG	995	-8.487	85.476	51.278	1.00	0.00	C
ATOM	9433	NH1	ARG	995	-9.615	86.212	51.058	1.00	0.00	N
ATOM	9434	1HH1	ARG	995	-9.580	87.230	51.119	1.00	0.00	H
ATOM	9435	2HH1	ARG	995	-10.494	85.746	50.834	1.00	0.00	H
ATOM	9436	NH2	ARG	995	-8.534	84.114	51.196	1.00	0.00	N
ATOM	9437	1HH2	ARG	995	-7.691	83.564	51.360	1.00	0.00	H
ATOM	9438	2HH2	ARG	995	-9.413	83.648	50.972	1.00	0.00	H
ATOM	9439	C	ARG	995	-3.129	89.199	51.815	1.00	0.00	C
ATOM	9440	O	ARG	995	-3.452	88.355	50.980	1.00	0.00	O
ATOM	9441	N	PHE	996	-1.862	89.657	51.917	1.00	0.00	N
ATOM	9442	HN	PHE	996	-1.646	90.456	52.513	1.00	0.00	H
ATOM	9443	CA	PHE	996	-0.828	89.003	51.175	1.00	0.00	C
ATOM	9444	CB	PHE	996	0.507	89.765	51.115	1.00	0.00	C
ATOM	9445	CG	PHE	996	0.294	90.995	50.299	1.00	0.00	C
ATOM	9446	CD1	PHE	996	-0.254	90.905	49.040	1.00	0.00	C
ATOM	9447	CD2	PHE	996	0.689	92.228	50.768	1.00	0.00	C
ATOM	9448	CE1	PHE	996	-0.443	92.030	48.273	1.00	0.00	C
ATOM	9449	CE2	PHE	996	0.505	93.357	50.004	1.00	0.00	C
ATOM	9450	CZ	PHE	996	-0.065	93.260	48.757	1.00	0.00	C
ATOM	9451	C	PHE	996	-0.576	87.678	51.812	1.00	0.00	C
ATOM	9452	O	PHE	996	-0.528	86.645	51.147	1.00	0.00	O
ATOM	9453	N	TYR	997	-0.440	87.688	53.149	1.00	0.00	N
ATOM	9454	HN	TYR	997	-0.511	88.579	53.640	1.00	0.00	H
ATOM	9455	CA	TYR	997	-0.199	86.501	53.915	1.00	0.00	C
ATOM	9456	CB	TYR	997	0.955	86.652	54.921	1.00	0.00	C
ATOM	9457	CG	TYR	997	2.160	87.193	54.233	1.00	0.00	C
ATOM	9458	CD1	TYR	997	2.184	88.518	53.864	1.00	0.00	C
ATOM	9459	CD2	TYR	997	3.263	86.410	53.981	1.00	0.00	C
ATOM	9460	CE1	TYR	997	3.282	89.060	53.241	1.00	0.00	C
ATOM	9461	CE2	TYR	997	4.366	86.949	53.357	1.00	0.00	C
ATOM	9462	CZ	TYR	997	4.377	88.273	52.986	1.00	0.00	C
ATOM	9463	OH	TYR	997	5.510	88.826	52.350	1.00	0.00	O
ATOM	9464	HH	TYR	997	5.518	89.741	52.094	1.00	0.00	H
ATOM	9465	C	TYR	997	-1.416	86.397	54.781	1.00	0.00	C
ATOM	9466	O	TYR	997	-1.898	87.408	55.290	1.00	0.00	O
ATOM	9467	N	ASP	998	-1.971	85.184	54.964	1.00	0.00	N
ATOM	9468	HN	ASP	998	-1.562	84.356	54.532	1.00	0.00	H
ATOM	9469	CA	ASP	998	-3.152	85.076	55.780	1.00	0.00	C



ATOM	9470	CB	ASP	998	-4.128	83.974	55.334	1.00	0.00	C
ATOM	9471	CG	ASP	998	-4.824	84.461	54.076	1.00	0.00	C
ATOM	9472	OD1	ASP	998	-4.608	85.648	53.716	1.00	0.00	O
ATOM	9473	OD2	ASP	998	-5.587	83.666	53.464	1.00	0.00	O
ATOM	9474	C	ASP	998	-2.743	84.757	57.178	1.00	0.00	C
ATOM	9475	O	ASP	998	-1.919	83.878	57.425	1.00	0.00	O
ATOM	9476	N	PRO	999	-3.342	85.465	58.096	1.00	0.00	N
ATOM	9477	CA	PRO	999	-3.040	85.318	59.493	1.00	0.00	C
ATOM	9478	CD	PRO	999	-4.653	86.052	57.872	1.00	0.00	C
ATOM	9479	CB	PRO	999	-4.066	86.184	60.221	1.00	0.00	C
ATOM	9480	CG	PRO	999	-5.278	86.169	59.271	1.00	0.00	C
ATOM	9481	C	PRO	999	-3.131	83.881	59.888	1.00	0.00	C
ATOM	9482	O	PRO	999	-4.015	83.173	59.411	1.00	0.00	O
ATOM	9483	N	LEU	1000	-2.205	83.433	60.755	1.00	0.00	N
ATOM	9484	HN	LEU	1000	-1.498	84.085	61.095	1.00	0.00	H
ATOM	9485	CA	LEU	1000	-2.171	82.080	61.220	1.00	0.00	C
ATOM	9486	CB	LEU	1000	-0.983	81.818	62.161	1.00	0.00	C
ATOM	9487	CG	LEU	1000	0.385	82.063	61.499	1.00	0.00	C
ATOM	9488	CD1	LEU	1000	1.538	81.775	62.476	1.00	0.00	C
ATOM	9489	CD2	LEU	1000	0.511	81.302	60.170	1.00	0.00	C
ATOM	9490	C	LEU	1000	-3.424	81.832	62.000	1.00	0.00	C
ATOM	9491	O	LEU	1000	-3.998	80.751	61.920	1.00	0.00	O
ATOM	9492	N	ALA	1001	-3.875	82.821	62.799	1.00	0.00	N
ATOM	9493	HN	ALA	1001	-3.370	83.706	62.853	1.00	0.00	H
ATOM	9494	CA	ALA	1001	-5.071	82.623	63.574	1.00	0.00	C
ATOM	9495	CB	ALA	1001	-4.797	82.052	64.976	1.00	0.00	C
ATOM	9496	C	ALA	1001	-5.738	83.955	63.764	1.00	0.00	C
ATOM	9497	O	ALA	1001	-5.076	84.991	63.801	1.00	0.00	O
ATOM	9498	N	GLY	1002	-7.082	83.955	63.916	1.00	0.00	N
ATOM	9499	HN	GLY	1002	-7.589	83.070	63.894	1.00	0.00	H
ATOM	9500	CA	GLY	1002	-7.810	85.183	64.108	1.00	0.00	C
ATOM	9501	C	GLY	1002	-8.312	85.639	62.768	1.00	0.00	C
ATOM	9502	O	GLY	1002	-8.167	84.918	61.784	1.00	0.00	O
ATOM	9503	N	LYS	1003	-8.944	86.838	62.694	1.00	0.00	N
ATOM	9504	HN	LYS	1003	-9.050	87.416	63.528	1.00	0.00	H
ATOM	9505	CA	LYS	1003	-9.463	87.288	61.428	1.00	0.00	C
ATOM	9506	CB	LYS	1003	-10.858	86.731	61.087	1.00	0.00	C
ATOM	9507	CG	LYS	1003	-11.913	86.977	62.166	1.00	0.00	C
ATOM	9508	CD	LYS	1003	-11.619	86.241	63.474	1.00	0.00	C
ATOM	9509	CE	LYS	1003	-12.712	86.402	64.531	1.00	0.00	C
ATOM	9510	NZ	LYS	1003	-12.399	85.565	65.710	1.00	0.00	N
ATOM	9511	HZ1	LYS	1003	-13.128	85.672	66.415	1.00	0.00	H
ATOM	9512	HZ2	LYS	1003	-11.471	85.763	66.085	1.00	0.00	H
ATOM	9513	HZ3	LYS	1003	-12.251	84.588	65.458	1.00	0.00	H
ATOM	9514	C	LYS	1003	-9.544	88.792	61.367	1.00	0.00	C
ATOM	9515	O	LYS	1003	-9.174	89.499	62.302	1.00	0.00	O
ATOM	9516	N	VAL	1004	-10.010	89.330	60.218	1.00	0.00	N
ATOM	9517	HN	VAL	1004	-10.287	88.719	59.450	1.00	0.00	H
ATOM	9518	CA	VAL	1004	-10.119	90.759	60.067	1.00	0.00	C
ATOM	9519	CB	VAL	1004	-8.874	91.355	59.419	1.00	0.00	C
ATOM	9520	CG1	VAL	1004	-8.398	90.404	58.330	1.00	0.00	C
ATOM	9521	CG2	VAL	1004	-9.103	92.776	58.873	1.00	0.00	C
ATOM	9522	C	VAL	1004	-11.401	91.086	59.352	1.00	0.00	C
ATOM	9523	O	VAL	1004	-12.092	90.187	58.891	1.00	0.00	O
ATOM	9524	N	LEU	1005	-11.828	92.369	59.365	1.00	0.00	N
ATOM	9525	HN	LEU	1005	-11.296	93.054	59.902	1.00	0.00	H
ATOM	9526	CA	LEU	1005	-13.002	92.812	58.653	1.00	0.00	C
ATOM	9527	CB	LEU	1005	-14.289	92.840	59.502	1.00	0.00	C
ATOM	9528	CG	LEU	1005	-14.830	91.458	59.925	1.00	0.00	C
ATOM	9529	CD1	LEU	1005	-13.887	90.730	60.896	1.00	0.00	C
ATOM	9530	CD2	LEU	1005	-16.262	91.577	60.472	1.00	0.00	C
ATOM	9531	C	LEU	1005	-12.757	94.227	58.217	1.00	0.00	C
ATOM	9532	O	LEU	1005	-12.785	95.154	59.022	1.00	0.00	O
ATOM	9533	N	LEU	1006	-12.586	94.438	56.903	1.00	0.00	N
ATOM	9534	HN	LEU	1006	-12.653	93.637	56.275	1.00	0.00	H
ATOM	9535	CA	LEU	1006	-12.315	95.724	56.330	1.00	0.00	C
ATOM	9536	CB	LEU	1006	-12.134	95.701	54.807	1.00	0.00	C
ATOM	9537	CG	LEU	1006	-13.459	95.551	54.045	1.00	0.00	C
ATOM	9538	CD1	LEU	1006	-13.205	95.530	52.534	1.00	0.00	C
ATOM	9539	CD2	LEU	1006	-14.280	94.354	54.550	1.00	0.00	C
ATOM	9540	C	LEU	1006	-13.498	96.570	56.615	1.00	0.00	C
ATOM	9541	O	LEU	1006	-13.462	97.793	56.489	1.00	0.00	O
ATOM	9542	N	ASP	1007	-14.630	95.912	56.888	1.00	0.00	N
ATOM	9543	HN	ASP	1007	-14.648	94.892	56.865	1.00	0.00	H

ATOM	9544	CA	ASP	1007	-15.808	96.639	57.210	1.00	0.00	C
ATOM	9545	CB	ASP	1007	-16.514	97.180	55.955	1.00	0.00	C
ATOM	9546	CG	ASP	1007	-17.724	98.003	56.376	1.00	0.00	C
ATOM	9547	OD1	ASP	1007	-17.651	98.678	57.438	1.00	0.00	O
ATOM	9548	OD2	ASP	1007	-18.746	97.956	55.641	1.00	0.00	O
ATOM	9549	C	ASP	1007	-16.733	95.655	57.847	1.00	0.00	C
ATOM	9550	O	ASP	1007	-16.938	95.649	59.058	1.00	0.00	O
ATOM	9551	N	GLY	1008	-17.429	94.897	56.987	1.00	0.00	N
ATOM	9552	HN	GLY	1008	-17.245	95.023	55.992	1.00	0.00	H
ATOM	9553	CA	GLY	1008	-18.411	93.924	57.359	1.00	0.00	C
ATOM	9554	C	GLY	1008	-18.018	92.520	57.712	1.00	0.00	C
ATOM	9555	O	GLY	1008	-18.607	91.950	58.630	1.00	0.00	O
ATOM	9556	N	LYS	1009	-17.092	91.876	56.962	1.00	0.00	N
ATOM	9557	HN	LYS	1009	-16.511	92.354	56.273	1.00	0.00	H
ATOM	9558	CA	LYS	1009	-16.995	90.462	57.216	1.00	0.00	C
ATOM	9559	CB	LYS	1009	-18.019	89.629	56.421	1.00	0.00	C
ATOM	9560	CG	LYS	1009	-19.461	90.138	56.504	1.00	0.00	C
ATOM	9561	CD	LYS	1009	-19.720	91.358	55.615	1.00	0.00	C
ATOM	9562	CE	LYS	1009	-21.073	92.031	55.851	1.00	0.00	C
ATOM	9563	NZ	LYS	1009	-21.038	93.414	55.323	1.00	0.00	N
ATOM	9564	HZ1	LYS	1009	-21.940	93.863	55.480	1.00	0.00	H
ATOM	9565	HZ2	LYS	1009	-20.759	93.445	54.342	1.00	0.00	H
ATOM	9566	HZ3	LYS	1009	-20.266	93.955	55.712	1.00	0.00	H
ATOM	9567	C	LYS	1009	-15.667	89.948	56.788	1.00	0.00	C
ATOM	9568	O	LYS	1009	-15.119	90.370	55.770	1.00	0.00	O
ATOM	9569	N	GLU	1010	-15.224	88.908	57.523	1.00	0.00	N
ATOM	9570	HN	GLU	1010	-15.893	88.526	58.191	1.00	0.00	H
ATOM	9571	CA	GLU	1010	-13.946	88.267	57.495	1.00	0.00	C
ATOM	9572	CB	GLU	1010	-14.003	86.731	57.606	1.00	0.00	C
ATOM	9573	CG	GLU	1010	-14.487	86.192	58.953	1.00	0.00	C
ATOM	9574	CD	GLU	1010	-14.464	84.671	58.862	1.00	0.00	C
ATOM	9575	OE1	GLU	1010	-13.396	84.119	58.484	1.00	0.00	O
ATOM	9576	OE2	GLU	1010	-15.513	84.041	59.162	1.00	0.00	O
ATOM	9577	C	GLU	1010	-13.161	88.556	56.273	1.00	0.00	C
ATOM	9578	O	GLU	1010	-13.440	88.070	55.181	1.00	0.00	O
ATOM	9579	N	ILE	1011	-12.074	89.326	56.480	1.00	0.00	N
ATOM	9580	HN	ILE	1011	-12.000	89.803	57.378	1.00	0.00	H
ATOM	9581	CA	ILE	1011	-11.025	89.524	55.546	1.00	0.00	C
ATOM	9582	CB	ILE	1011	-10.351	90.875	55.660	1.00	0.00	C
ATOM	9583	CG1	ILE	1011	-11.276	91.935	55.042	1.00	0.00	C
ATOM	9584	CG2	ILE	1011	-8.989	90.854	54.938	1.00	0.00	C
ATOM	9585	CD1	ILE	1011	-12.688	91.944	55.606	1.00	0.00	C
ATOM	9586	C	ILE	1011	-10.118	88.400	55.924	1.00	0.00	C
ATOM	9587	O	ILE	1011	-9.015	88.571	56.426	1.00	0.00	O
ATOM	9588	N	LYS	1012	-10.765	87.238	56.075	1.00	0.00	N
ATOM	9589	HN	LYS	1012	-11.750	87.321	56.328	1.00	0.00	H
ATOM	9590	CA	LYS	1012	-10.292	85.919	55.937	1.00	0.00	C
ATOM	9591	CB	LYS	1012	-10.956	84.972	56.944	1.00	0.00	C
ATOM	9592	CG	LYS	1012	-10.488	83.523	56.839	1.00	0.00	C
ATOM	9593	CD	LYS	1012	-9.037	83.288	57.272	1.00	0.00	C
ATOM	9594	CE	LYS	1012	-8.006	83.558	56.174	1.00	0.00	C
ATOM	9595	NZ	LYS	1012	-7.563	84.968	56.221	1.00	0.00	N
ATOM	9596	HZ1	LYS	1012	-6.876	85.148	55.489	1.00	0.00	H
ATOM	9597	HZ2	LYS	1012	-7.213	85.226	57.144	1.00	0.00	H
ATOM	9598	HZ3	LYS	1012	-8.349	85.616	56.172	1.00	0.00	H
ATOM	9599	C	LYS	1012	-10.810	85.575	54.589	1.00	0.00	C
ATOM	9600	O	LYS	1012	-10.103	85.170	53.669	1.00	0.00	O
ATOM	9601	N	ARG	1013	-12.135	85.848	54.465	1.00	0.00	N
ATOM	9602	HN	ARG	1013	-12.622	86.300	55.239	1.00	0.00	H
ATOM	9603	CA	ARG	1013	-12.865	85.520	53.282	1.00	0.00	C
ATOM	9604	CB	ARG	1013	-13.776	84.291	53.448	1.00	0.00	C
ATOM	9605	CG	ARG	1013	-12.971	82.996	53.590	1.00	0.00	C
ATOM	9606	CD	ARG	1013	-13.815	81.727	53.719	1.00	0.00	C
ATOM	9607	NE	ARG	1013	-12.864	80.580	53.755	1.00	0.00	N
ATOM	9608	HE	ARG	1013	-12.481	80.264	54.646	1.00	0.00	H
ATOM	9609	CZ	ARG	1013	-12.505	79.952	52.598	1.00	0.00	C
ATOM	9610	NH1	ARG	1013	-13.078	80.321	51.415	1.00	0.00	N
ATOM	9611	1HH1	ARG	1013	-13.777	81.064	51.398	1.00	0.00	H
ATOM	9612	2HH1	ARG	1013	-12.810	79.852	50.550	1.00	0.00	H
ATOM	9613	NH2	ARG	1013	-11.570	78.958	52.621	1.00	0.00	N
ATOM	9614	1HH2	ARG	1013	-11.142	78.682	53.505	1.00	0.00	H
ATOM	9615	2HH2	ARG	1013	-11.302	78.489	51.756	1.00	0.00	H
ATOM	9616	C	ARG	1013	-13.698	86.681	52.849	1.00	0.00	C
ATOM	9617	O	ARG	1013	-14.812	86.904	53.325	1.00	0.00	O

ATOM	9618	N	LEU	1014	-13.115	87.469	51.936	1.00	0.00	N
ATOM	9619	HN	LEU	1014	-12.147	87.252	51.701	1.00	0.00	H
ATOM	9620	CA	LEU	1014	-13.702	88.582	51.255	1.00	0.00	C
ATOM	9621	CB	LEU	1014	-13.354	89.938	51.883	1.00	0.00	C
ATOM	9622	CG	LEU	1014	-13.982	91.138	51.154	1.00	0.00	C
ATOM	9623	CD1	LEU	1014	-15.518	91.088	51.207	1.00	0.00	C
ATOM	9624	CD2	LEU	1014	-13.410	92.462	51.683	1.00	0.00	C
ATOM	9625	C	LEU	1014	-13.026	88.494	49.924	1.00	0.00	C
ATOM	9626	O	LEU	1014	-11.877	88.055	49.874	1.00	0.00	O
ATOM	9627	N	ASN	1015	-13.689	88.879	48.812	1.00	0.00	N
ATOM	9628	HN	ASN	1015	-14.620	89.293	48.860	1.00	0.00	H
ATOM	9629	CA	ASN	1015	-13.017	88.677	47.557	1.00	0.00	C
ATOM	9630	CB	ASN	1015	-13.837	89.058	46.318	1.00	0.00	C
ATOM	9631	CG	ASN	1015	-12.940	88.778	45.120	1.00	0.00	C
ATOM	9632	OD1	ASN	1015	-12.324	89.688	44.567	1.00	0.00	O
ATOM	9633	ND2	ASN	1015	-12.815	87.482	44.734	1.00	0.00	N
ATOM	9634	1HD2	ASN	1015	-12.214	87.294	43.931	1.00	0.00	H
ATOM	9635	2HD2	ASN	1015	-13.326	86.727	45.193	1.00	0.00	H
ATOM	9636	C	ASN	1015	-11.766	89.478	47.533	1.00	0.00	C
ATOM	9637	O	ASN	1015	-11.784	90.705	47.508	1.00	0.00	O
ATOM	9638	N	VAL	1016	-10.631	88.771	47.463	1.00	0.00	N
ATOM	9639	HN	VAL	1016	-10.680	87.759	47.347	1.00	0.00	H
ATOM	9640	CA	VAL	1016	-9.355	89.402	47.547	1.00	0.00	C
ATOM	9641	CB	VAL	1016	-8.256	88.388	47.595	1.00	0.00	C
ATOM	9642	CG1	VAL	1016	-8.770	87.108	46.916	1.00	0.00	C
ATOM	9643	CG2	VAL	1016	-6.995	88.995	46.959	1.00	0.00	C
ATOM	9644	C	VAL	1016	-9.160	90.418	46.464	1.00	0.00	C
ATOM	9645	O	VAL	1016	-8.676	91.504	46.784	1.00	0.00	O
ATOM	9646	N	PRO	1017	-9.513	90.196	45.223	1.00	0.00	N
ATOM	9647	CA	PRO	1017	-9.274	91.225	44.251	1.00	0.00	C
ATOM	9648	CD	PRO	1017	-9.570	88.879	44.613	1.00	0.00	C
ATOM	9649	CB	PRO	1017	-9.624	90.610	42.899	1.00	0.00	C
ATOM	9650	CG	PRO	1017	-9.329	89.112	43.111	1.00	0.00	C
ATOM	9651	C	PRO	1017	-10.021	92.468	44.598	1.00	0.00	C
ATOM	9652	O	PRO	1017	-9.513	93.560	44.348	1.00	0.00	O
ATOM	9653	N	TRP	1018	-11.244	92.329	45.135	1.00	0.00	N
ATOM	9654	HN	TRP	1018	-11.646	91.399	45.255	1.00	0.00	H
ATOM	9655	CA	TRP	1018	-11.982	93.487	45.538	1.00	0.00	C
ATOM	9656	CB	TRP	1018	-13.459	93.213	45.821	1.00	0.00	C
ATOM	9657	CG	TRP	1018	-14.152	94.472	46.266	1.00	0.00	C
ATOM	9658	CD2	TRP	1018	-14.378	94.817	47.639	1.00	0.00	C
ATOM	9659	CD1	TRP	1018	-14.646	95.498	45.519	1.00	0.00	C
ATOM	9660	NE1	TRP	1018	-15.156	96.472	46.343	1.00	0.00	N
ATOM	9661	HE1	TRP	1018	-15.579	97.349	46.038	1.00	0.00	H
ATOM	9662	CE2	TRP	1018	-15.000	96.065	47.651	1.00	0.00	C
ATOM	9663	CE3	TRP	1018	-14.083	94.152	48.792	1.00	0.00	C
ATOM	9664	CZ2	TRP	1018	-15.338	96.672	48.825	1.00	0.00	C
ATOM	9665	CZ3	TRP	1018	-14.435	94.762	49.972	1.00	0.00	C
ATOM	9666	CH2	TRP	1018	-15.049	95.997	49.989	1.00	0.00	C
ATOM	9667	C	TRP	1018	-11.393	94.064	46.786	1.00	0.00	C
ATOM	9668	O	TRP	1018	-11.316	95.283	46.941	1.00	0.00	O
ATOM	9669	N	LEU	1019	-10.962	93.190	47.716	1.00	0.00	N
ATOM	9670	HN	LEU	1019	-11.017	92.187	47.537	1.00	0.00	H
ATOM	9671	CA	LEU	1019	-10.424	93.668	48.961	1.00	0.00	C
ATOM	9672	CB	LEU	1019	-9.874	92.534	49.846	1.00	0.00	C
ATOM	9673	CG	LEU	1019	-9.290	93.017	51.187	1.00	0.00	C
ATOM	9674	CD1	LEU	1019	-10.360	93.694	52.056	1.00	0.00	C
ATOM	9675	CD2	LEU	1019	-8.559	91.878	51.917	1.00	0.00	C
ATOM	9676	C	LEU	1019	-9.287	94.580	48.624	1.00	0.00	C
ATOM	9677	O	LEU	1019	-9.163	95.668	49.181	1.00	0.00	O
ATOM	9678	N	ARG	1020	-8.438	94.168	47.674	1.00	0.00	N
ATOM	9679	HN	ARG	1020	-8.576	93.254	47.242	1.00	0.00	H
ATOM	9680	CA	ARG	1020	-7.337	94.986	47.251	1.00	0.00	C
ATOM	9681	CB	ARG	1020	-6.151	94.231	46.622	1.00	0.00	C
ATOM	9682	CG	ARG	1020	-6.441	93.359	45.410	1.00	0.00	C
ATOM	9683	CD	ARG	1020	-5.240	92.478	45.054	1.00	0.00	C
ATOM	9684	NE	ARG	1020	-4.958	91.615	46.238	1.00	0.00	N
ATOM	9685	HE	ARG	1020	-5.460	91.771	47.112	1.00	0.00	H
ATOM	9686	CZ	ARG	1020	-4.030	90.617	46.155	1.00	0.00	C
ATOM	9687	NH1	ARG	1020	-3.342	90.420	44.993	1.00	0.00	N
ATOM	9688	1HH1	ARG	1020	-2.649	89.674	44.931	1.00	0.00	H
ATOM	9689	2HH1	ARG	1020	-3.523	91.018	44.187	1.00	0.00	H
ATOM	9690	NH2	ARG	1020	-3.788	89.816	47.234	1.00	0.00	N
ATOM	9691	1HH2	ARG	1020	-3.095	89.070	47.172	1.00	0.00	H

ATOM	9692	2HH2	ARG	1020	-4.302	89.963	48.103	1.00	0.00	H
ATOM	9693	C	ARG	1020	-7.805	96.118	46.398	1.00	0.00	C
ATOM	9694	O	ARG	1020	-7.034	97.013	46.068	1.00	0.00	O
ATOM	9695	N	ALA	1021	-9.067	96.080	45.947	1.00	0.00	N
ATOM	9696	HN	ALA	1021	-9.665	95.282	46.160	1.00	0.00	H
ATOM	9697	CA	ALA	1021	-9.568	97.168	45.165	1.00	0.00	C
ATOM	9698	CB	ALA	1021	-11.064	97.028	44.839	1.00	0.00	C
ATOM	9699	C	ALA	1021	-9.390	98.403	46.000	1.00	0.00	C
ATOM	9700	O	ALA	1021	-8.957	99.438	45.494	1.00	0.00	O
ATOM	9701	N	HIS	1022	-9.683	98.329	47.315	1.00	0.00	N
ATOM	9702	HN	HIS	1022	-10.039	97.466	47.726	1.00	0.00	H
ATOM	9703	CA	HIS	1022	-9.479	99.503	48.119	1.00	0.00	C
ATOM	9704	ND1	HIS	1022	-12.222	101.171	47.705	1.00	0.00	N
ATOM	9705	HD1	HIS	1022	-11.599	101.963	47.547	1.00	0.00	H
ATOM	9706	CG	HIS	1022	-11.937	100.034	48.428	1.00	0.00	C
ATOM	9707	CB	HIS	1022	-10.624	99.777	49.111	1.00	0.00	C
ATOM	9708	NE2	HIS	1022	-14.041	99.895	47.619	1.00	0.00	N
ATOM	9709	HE2	HIS	1022	-14.979	99.554	47.407	1.00	0.00	H
ATOM	9710	CD2	HIS	1022	-13.060	99.265	48.365	1.00	0.00	C
ATOM	9711	CE1	HIS	1022	-13.492	101.035	47.243	1.00	0.00	C
ATOM	9712	C	HIS	1022	-8.214	99.341	48.909	1.00	0.00	C
ATOM	9713	O	HIS	1022	-8.105	98.473	49.773	1.00	0.00	O
ATOM	9714	N	LEU	1023	-7.197	100.174	48.606	1.00	0.00	N
ATOM	9715	HN	LEU	1023	-7.306	100.867	47.865	1.00	0.00	H
ATOM	9716	CA	LEU	1023	-5.961	100.082	49.329	1.00	0.00	C
ATOM	9717	CB	LEU	1023	-5.211	98.762	49.005	1.00	0.00	C
ATOM	9718	CG	LEU	1023	-4.668	98.595	47.559	1.00	0.00	C
ATOM	9719	CD1	LEU	1023	-4.340	97.129	47.239	1.00	0.00	C
ATOM	9720	CD2	LEU	1023	-5.556	99.270	46.501	1.00	0.00	C
ATOM	9721	C	LEU	1023	-5.116	101.270	48.964	1.00	0.00	C
ATOM	9722	O	LEU	1023	-4.388	101.268	47.974	1.00	0.00	O
ATOM	9723	N	GLY	1024	-5.152	102.340	49.772	1.00	0.00	N
ATOM	9724	HN	GLY	1024	-5.727	102.364	50.614	1.00	0.00	H
ATOM	9725	CA	GLY	1024	-4.333	103.447	49.380	1.00	0.00	C
ATOM	9726	C	GLY	1024	-2.979	103.162	49.924	1.00	0.00	C
ATOM	9727	O	GLY	1024	-2.610	103.681	50.974	1.00	0.00	O
ATOM	9728	N	ILE	1025	-2.169	102.363	49.199	1.00	0.00	N
ATOM	9729	HN	ILE	1025	-2.440	101.998	48.286	1.00	0.00	H
ATOM	9730	CA	ILE	1025	-0.906	102.062	49.795	1.00	0.00	C
ATOM	9731	CB	ILE	1025	-0.443	100.635	49.782	1.00	0.00	C
ATOM	9732	CG1	ILE	1025	-0.034	100.189	48.381	1.00	0.00	C
ATOM	9733	CG2	ILE	1025	-1.533	99.758	50.415	1.00	0.00	C
ATOM	9734	CD1	ILE	1025	0.883	98.975	48.457	1.00	0.00	C
ATOM	9735	C	ILE	1025	0.166	102.813	49.079	1.00	0.00	C
ATOM	9736	O	ILE	1025	0.091	103.061	47.877	1.00	0.00	O
ATOM	9737	N	VAL	1026	1.154	103.274	49.864	1.00	0.00	N
ATOM	9738	HN	VAL	1026	1.028	103.189	50.873	1.00	0.00	H
ATOM	9739	CA	VAL	1026	2.371	103.875	49.402	1.00	0.00	C
ATOM	9740	CB	VAL	1026	2.367	105.378	49.308	1.00	0.00	C
ATOM	9741	CG1	VAL	1026	1.583	105.812	48.067	1.00	0.00	C
ATOM	9742	CG2	VAL	1026	1.769	105.937	50.607	1.00	0.00	C
ATOM	9743	C	VAL	1026	3.388	103.497	50.424	1.00	0.00	C
ATOM	9744	O	VAL	1026	3.108	103.542	51.621	1.00	0.00	O
ATOM	9745	N	SER	1027	4.610	103.137	49.988	1.00	0.00	N
ATOM	9746	HN	SER	1027	4.846	103.202	48.998	1.00	0.00	H
ATOM	9747	CA	SER	1027	5.576	102.660	50.936	1.00	0.00	C
ATOM	9748	CB	SER	1027	5.827	101.145	50.812	1.00	0.00	C
ATOM	9749	OG	SER	1027	6.673	100.681	51.856	1.00	0.00	O
ATOM	9750	HG	SER	1027	6.828	99.747	51.780	1.00	0.00	H
ATOM	9751	C	SER	1027	6.876	103.382	50.739	1.00	0.00	C
ATOM	9752	O	SER	1027	6.999	104.247	49.871	1.00	0.00	O
ATOM	9753	N	GLN	1028	7.896	103.017	51.550	1.00	0.00	N
ATOM	9754	HN	GLN	1028	7.781	102.211	52.164	1.00	0.00	H
ATOM	9755	CA	GLN	1028	9.132	103.738	51.565	1.00	0.00	C
ATOM	9756	CB	GLN	1028	10.171	103.118	52.513	1.00	0.00	C
ATOM	9757	CG	GLN	1028	9.735	103.200	53.980	1.00	0.00	C
ATOM	9758	CD	GLN	1028	10.809	102.573	54.857	1.00	0.00	C
ATOM	9759	OE1	GLN	1028	10.508	101.871	55.821	1.00	0.00	O
ATOM	9760	NE2	GLN	1028	12.100	102.846	54.527	1.00	0.00	N
ATOM	9761	1HE2	GLN	1028	12.350	103.428	53.728	1.00	0.00	H
ATOM	9762	2HE2	GLN	1028	12.820	102.426	55.115	1.00	0.00	H
ATOM	9763	C	GLN	1028	9.703	103.796	50.189	1.00	0.00	C
ATOM	9764	O	GLN	1028	9.890	104.891	49.661	1.00	0.00	O
ATOM	9765	N	GLU	1029	9.934	102.645	49.532	1.00	0.00	N

ATOM	9766	HN	GLU	1029	9.763	101.738	49.967	1.00	0.00	H
ATOM	9767	CA	GLU	1029	10.432	102.752	48.192	1.00	0.00	C
ATOM	9768	CB	GLU	1029	11.432	101.686	47.749	1.00	0.00	C
ATOM	9769	CG	GLU	1029	12.865	101.999	48.137	1.00	0.00	C
ATOM	9770	CD	GLU	1029	13.692	101.247	47.118	1.00	0.00	C
ATOM	9771	OE1	GLU	1029	13.898	100.021	47.315	1.00	0.00	O
ATOM	9772	OE2	GLU	1029	14.104	101.887	46.114	1.00	0.00	O
ATOM	9773	C	GLU	1029	9.283	102.621	47.263	1.00	0.00	C
ATOM	9774	O	GLU	1029	8.626	101.587	47.171	1.00	0.00	O
ATOM	9775	N	PRO	1030	9.062	103.681	46.554	1.00	0.00	N
ATOM	9776	CA	PRO	1030	8.018	103.764	45.581	1.00	0.00	C
ATOM	9777	CD	PRO	1030	9.647	104.975	46.855	1.00	0.00	C
ATOM	9778	CB	PRO	1030	7.805	105.256	45.325	1.00	0.00	C
ATOM	9779	CG	PRO	1030	9.139	105.898	45.737	1.00	0.00	C
ATOM	9780	C	PRO	1030	8.548	103.056	44.383	1.00	0.00	C
ATOM	9781	O	PRO	1030	9.546	102.344	44.504	1.00	0.00	O
ATOM	9782	N	ILE	1031	7.824	103.127	43.255	1.00	0.00	N
ATOM	9783	HN	ILE	1031	6.909	103.577	43.259	1.00	0.00	H
ATOM	9784	CA	ILE	1031	8.348	102.565	42.045	1.00	0.00	C
ATOM	9785	CB	ILE	1031	8.644	101.100	42.163	1.00	0.00	C
ATOM	9786	CG1	ILE	1031	9.244	100.559	40.855	1.00	0.00	C
ATOM	9787	CG2	ILE	1031	7.347	100.397	42.595	1.00	0.00	C
ATOM	9788	CD1	ILE	1031	10.585	101.188	40.482	1.00	0.00	C
ATOM	9789	C	ILE	1031	7.342	102.749	40.958	1.00	0.00	C
ATOM	9790	O	ILE	1031	6.162	102.974	41.222	1.00	0.00	O
ATOM	9791	N	LEU	1032	7.791	102.678	39.688	1.00	0.00	N
ATOM	9792	HN	LEU	1032	8.786	102.557	39.501	1.00	0.00	H
ATOM	9793	CA	LEU	1032	6.857	102.774	38.603	1.00	0.00	C
ATOM	9794	CB	LEU	1032	6.648	104.205	38.075	1.00	0.00	C
ATOM	9795	CG	LEU	1032	6.253	105.257	39.121	1.00	0.00	C
ATOM	9796	CD1	LEU	1032	7.419	105.559	40.075	1.00	0.00	C
ATOM	9797	CD2	LEU	1032	5.722	106.526	38.441	1.00	0.00	C
ATOM	9798	C	LEU	1032	7.448	102.062	37.424	1.00	0.00	C
ATOM	9799	O	LEU	1032	8.639	102.190	37.144	1.00	0.00	O
ATOM	9800	N	PHE	1033	6.611	101.308	36.686	1.00	0.00	N
ATOM	9801	HN	PHE	1033	5.649	101.184	37.001	1.00	0.00	H
ATOM	9802	CA	PHE	1033	7.032	100.673	35.468	1.00	0.00	C
ATOM	9803	CB	PHE	1033	6.054	99.580	35.001	1.00	0.00	C
ATOM	9804	CG	PHE	1033	6.618	98.930	33.789	1.00	0.00	C
ATOM	9805	CD1	PHE	1033	7.825	98.276	33.858	1.00	0.00	C
ATOM	9806	CD2	PHE	1033	5.928	98.934	32.598	1.00	0.00	C
ATOM	9807	CE1	PHE	1033	8.351	97.664	32.746	1.00	0.00	C
ATOM	9808	CE2	PHE	1033	6.451	98.321	31.484	1.00	0.00	C
ATOM	9809	CZ	PHE	1033	7.667	97.686	31.555	1.00	0.00	C
ATOM	9810	C	PHE	1033	7.089	101.798	34.466	1.00	0.00	C
ATOM	9811	O	PHE	1033	6.423	102.815	34.642	1.00	0.00	O
ATOM	9812	N	ASP	1034	7.847	101.604	33.370	1.00	0.00	N
ATOM	9813	HN	ASP	1034	8.179	100.649	33.236	1.00	0.00	H
ATOM	9814	CA	ASP	1034	8.259	102.544	32.359	1.00	0.00	C
ATOM	9815	CB	ASP	1034	9.444	102.072	31.500	1.00	0.00	C
ATOM	9816	CG	ASP	1034	9.118	100.728	30.891	1.00	0.00	C
ATOM	9817	OD1	ASP	1034	8.150	100.637	30.091	1.00	0.00	O
ATOM	9818	OD2	ASP	1034	9.840	99.759	31.244	1.00	0.00	O
ATOM	9819	C	ASP	1034	7.200	103.167	31.497	1.00	0.00	C
ATOM	9820	O	ASP	1034	7.515	103.609	30.393	1.00	0.00	O
ATOM	9821	N	CYS	1035	5.911	103.092	31.864	1.00	0.00	N
ATOM	9822	HN	CYS	1035	5.620	102.533	32.666	1.00	0.00	H
ATOM	9823	CA	CYS	1035	4.955	103.832	31.081	1.00	0.00	C
ATOM	9824	CB	CYS	1035	3.492	103.516	31.435	1.00	0.00	C
ATOM	9825	SG	CYS	1035	3.068	101.772	31.148	1.00	0.00	S
ATOM	9826	C	CYS	1035	5.179	105.290	31.377	1.00	0.00	C
ATOM	9827	O	CYS	1035	5.948	105.645	32.269	1.00	0.00	O
ATOM	9828	N	SER	1036	4.540	106.191	30.599	1.00	0.00	N
ATOM	9829	HN	SER	1036	3.959	105.878	29.821	1.00	0.00	H
ATOM	9830	CA	SER	1036	4.685	107.592	30.875	1.00	0.00	C
ATOM	9831	CB	SER	1036	3.976	108.498	29.853	1.00	0.00	C
ATOM	9832	OG	SER	1036	2.576	108.261	29.876	1.00	0.00	O
ATOM	9833	HG	SER	1036	2.138	108.820	29.245	1.00	0.00	H
ATOM	9834	C	SER	1036	4.037	107.785	32.208	1.00	0.00	C
ATOM	9835	O	SER	1036	3.246	106.945	32.632	1.00	0.00	O
ATOM	9836	N	ILE	1037	4.348	108.888	32.920	1.00	0.00	N
ATOM	9837	HN	ILE	1037	4.964	109.607	32.542	1.00	0.00	H
ATOM	9838	CA	ILE	1037	3.778	109.008	34.229	1.00	0.00	C
ATOM	9839	CB	ILE	1037	4.227	110.163	35.093	1.00	0.00	C

ATOM	9840	CG1	ILE	1037	3.769	111.532	34.575	1.00	0.00	C
ATOM	9841	CG2	ILE	1037	5.752	110.040	35.252	1.00	0.00	C
ATOM	9842	CD1	ILE	1037	4.489	112.003	33.324	1.00	0.00	C
ATOM	9843	C	ILE	1037	2.295	109.069	34.088	1.00	0.00	C
ATOM	9844	O	ILE	1037	1.577	108.635	34.981	1.00	0.00	O
ATOM	9845	N	ALA	1038	1.778	109.622	32.976	1.00	0.00	N
ATOM	9846	HN	ALA	1038	2.393	109.971	32.241	1.00	0.00	H
ATOM	9847	CA	ALA	1038	0.353	109.717	32.832	1.00	0.00	C
ATOM	9848	CB	ALA	1038	-0.076	110.290	31.471	1.00	0.00	C
ATOM	9849	C	ALA	1038	-0.245	108.341	32.949	1.00	0.00	C
ATOM	9850	O	ALA	1038	-1.293	108.171	33.572	1.00	0.00	O
ATOM	9851	N	GLU	1039	0.382	107.326	32.322	1.00	0.00	N
ATOM	9852	HN	GLU	1039	1.224	107.528	31.782	1.00	0.00	H
ATOM	9853	CA	GLU	1039	-0.092	105.967	32.386	1.00	0.00	C
ATOM	9854	CB	GLU	1039	0.682	105.042	31.432	1.00	0.00	C
ATOM	9855	CG	GLU	1039	0.570	105.450	29.961	1.00	0.00	C
ATOM	9856	CD	GLU	1039	-0.883	105.310	29.530	1.00	0.00	C
ATOM	9857	OE1	GLU	1039	-1.750	105.986	30.144	1.00	0.00	O
ATOM	9858	OE2	GLU	1039	-1.145	104.526	28.580	1.00	0.00	O
ATOM	9859	C	GLU	1039	0.116	105.432	33.770	1.00	0.00	C
ATOM	9860	O	GLU	1039	-0.773	104.814	34.357	1.00	0.00	O
ATOM	9861	N	ASN	1040	1.309	105.665	34.349	1.00	0.00	N
ATOM	9862	HN	ASN	1040	2.031	106.212	33.880	1.00	0.00	H
ATOM	9863	CA	ASN	1040	1.519	105.112	35.648	1.00	0.00	C
ATOM	9864	CB	ASN	1040	2.981	105.057	36.155	1.00	0.00	C
ATOM	9865	CG	ASN	1040	3.765	106.335	35.936	1.00	0.00	C
ATOM	9866	OD1	ASN	1040	3.708	107.280	36.718	1.00	0.00	O
ATOM	9867	ND2	ASN	1040	4.580	106.325	34.849	1.00	0.00	N
ATOM	9868	1HD2	ASN	1040	5.108	107.185	34.702	1.00	0.00	H
ATOM	9869	2HD2	ASN	1040	4.627	105.540	34.199	1.00	0.00	H
ATOM	9870	C	ASN	1040	0.550	105.709	36.603	1.00	0.00	C
ATOM	9871	O	ASN	1040	-0.033	104.957	37.364	1.00	0.00	O
ATOM	9872	N	ILE	1041	0.254	107.021	36.530	1.00	0.00	N
ATOM	9873	HN	ILE	1041	0.732	107.595	35.835	1.00	0.00	H
ATOM	9874	CA	ILE	1041	-0.714	107.643	37.399	1.00	0.00	C
ATOM	9875	CB	ILE	1041	-1.160	108.997	36.915	1.00	0.00	C
ATOM	9876	CG1	ILE	1041	-0.015	110.007	36.725	1.00	0.00	C
ATOM	9877	CG2	ILE	1041	-2.243	109.481	37.891	1.00	0.00	C
ATOM	9878	CD1	ILE	1041	0.682	110.450	38.002	1.00	0.00	C
ATOM	9879	C	ILE	1041	-1.950	106.813	37.219	1.00	0.00	C
ATOM	9880	O	ILE	1041	-2.573	106.350	38.169	1.00	0.00	O
ATOM	9881	N	ALA	1042	-2.192	106.474	35.947	1.00	0.00	N
ATOM	9882	HN	ALA	1042	-1.497	106.788	35.270	1.00	0.00	H
ATOM	9883	CA	ALA	1042	-3.287	105.734	35.404	1.00	0.00	C
ATOM	9884	CB	ALA	1042	-3.311	105.700	33.866	1.00	0.00	C
ATOM	9885	C	ALA	1042	-3.320	104.332	35.916	1.00	0.00	C
ATOM	9886	O	ALA	1042	-4.220	103.610	35.494	1.00	0.00	O
ATOM	9887	N	TYR	1043	-2.284	103.892	36.685	1.00	0.00	N
ATOM	9888	HN	TYR	1043	-1.598	104.588	36.977	1.00	0.00	H
ATOM	9889	CA	TYR	1043	-2.064	102.530	37.127	1.00	0.00	C
ATOM	9890	CB	TYR	1043	-1.448	102.282	38.522	1.00	0.00	C
ATOM	9891	CG	TYR	1043	0.018	102.446	38.418	1.00	0.00	C
ATOM	9892	CD1	TYR	1043	0.711	101.751	37.456	1.00	0.00	C
ATOM	9893	CD2	TYR	1043	0.701	103.238	39.309	1.00	0.00	C
ATOM	9894	CE1	TYR	1043	2.071	101.890	37.340	1.00	0.00	C
ATOM	9895	CE2	TYR	1043	2.059	103.382	39.192	1.00	0.00	C
ATOM	9896	CZ	TYR	1043	2.738	102.716	38.207	1.00	0.00	C
ATOM	9897	OH	TYR	1043	4.130	102.873	38.098	1.00	0.00	O
ATOM	9898	HH	TYR	1043	4.592	103.445	38.699	1.00	0.00	H
ATOM	9899	C	TYR	1043	-3.295	101.731	37.147	1.00	0.00	C
ATOM	9900	O	TYR	1043	-4.131	101.897	38.028	1.00	0.00	O
ATOM	9901	N	GLY	1044	-3.447	101.003	36.023	1.00	0.00	N
ATOM	9902	HN	GLY	1044	-2.793	101.267	35.286	1.00	0.00	H
ATOM	9903	CA	GLY	1044	-4.328	99.938	35.636	1.00	0.00	C
ATOM	9904	C	GLY	1044	-4.838	99.143	36.791	1.00	0.00	C
ATOM	9905	O	GLY	1044	-4.674	97.927	36.786	1.00	0.00	O
ATOM	9906	N	ASP	1045	-5.512	99.765	37.762	1.00	0.00	N
ATOM	9907	HN	ASP	1045	-5.744	100.750	37.638	1.00	0.00	H
ATOM	9908	CA	ASP	1045	-5.923	99.117	38.965	1.00	0.00	C
ATOM	9909	CB	ASP	1045	-6.846	100.028	39.777	1.00	0.00	C
ATOM	9910	CG	ASP	1045	-6.217	101.410	39.755	1.00	0.00	C
ATOM	9911	OD1	ASP	1045	-5.120	101.598	40.345	1.00	0.00	O
ATOM	9912	OD2	ASP	1045	-6.840	102.305	39.123	1.00	0.00	O
ATOM	9913	C	ASP	1045	-6.786	98.004	38.506	1.00	0.00	C

ATOM	9914	O	ASP	1045	-6.779	96.903	39.053	1.00	0.00	O
ATOM	9915	N	ASN	1046	-7.559	98.299	37.453	1.00	0.00	N
ATOM	9916	HN	ASN	1046	-7.503	99.228	37.035	1.00	0.00	H
ATOM	9917	CA	ASN	1046	-8.459	97.338	36.905	1.00	0.00	C
ATOM	9918	CB	ASN	1046	-9.609	96.997	37.870	1.00	0.00	C
ATOM	9919	CG	ASN	1046	-10.250	98.295	38.345	1.00	0.00	C
ATOM	9920	OD1	ASN	1046	-10.907	99.006	37.588	1.00	0.00	O
ATOM	9921	ND2	ASN	1046	-10.051	98.613	39.652	1.00	0.00	N
ATOM	9922	1HD2	ASN	1046	-9.506	98.023	40.280	1.00	0.00	H
ATOM	9923	2HD2	ASN	1046	-10.480	99.482	39.970	1.00	0.00	H
ATOM	9924	C	ASN	1046	-9.007	97.917	35.647	1.00	0.00	C
ATOM	9925	O	ASN	1046	-8.311	98.607	34.903	1.00	0.00	O
ATOM	9926	N	SER	1047	-10.311	97.681	35.409	1.00	0.00	N
ATOM	9927	HN	SER	1047	-10.835	97.152	36.106	1.00	0.00	H
ATOM	9928	CA	SER	1047	-11.011	98.126	34.236	1.00	0.00	C
ATOM	9929	CB	SER	1047	-12.503	97.754	34.263	1.00	0.00	C
ATOM	9930	OG	SER	1047	-13.139	98.401	35.355	1.00	0.00	O
ATOM	9931	HG	SER	1047	-14.061	98.171	35.372	1.00	0.00	H
ATOM	9932	C	SER	1047	-10.933	99.617	34.168	1.00	0.00	C
ATOM	9933	O	SER	1047	-11.266	100.209	33.140	1.00	0.00	O
ATOM	9934	N	ARG	1048	-10.489	100.258	35.268	1.00	0.00	N
ATOM	9935	HN	ARG	1048	-10.228	99.706	36.085	1.00	0.00	H
ATOM	9936	CA	ARG	1048	-10.369	101.680	35.335	1.00	0.00	C
ATOM	9937	CB	ARG	1048	-9.559	102.146	36.556	1.00	0.00	C
ATOM	9938	CG	ARG	1048	-10.238	101.861	37.895	1.00	0.00	C
ATOM	9939	CD	ARG	1048	-10.909	103.099	38.489	1.00	0.00	C
ATOM	9940	NE	ARG	1048	-12.042	103.466	37.594	1.00	0.00	N
ATOM	9941	HE	ARG	1048	-12.598	102.736	37.149	1.00	0.00	H
ATOM	9942	CZ	ARG	1048	-12.336	104.780	37.369	1.00	0.00	C
ATOM	9943	NH1	ARG	1048	-11.556	105.757	37.915	1.00	0.00	N
ATOM	9944	1HH1	ARG	1048	-11.776	106.739	37.747	1.00	0.00	H
ATOM	9945	2HH1	ARG	1048	-10.760	105.504	38.500	1.00	0.00	H
ATOM	9946	NH2	ARG	1048	-13.401	105.119	36.586	1.00	0.00	N
ATOM	9947	1HH2	ARG	1048	-13.621	106.101	36.418	1.00	0.00	H
ATOM	9948	2HH2	ARG	1048	-13.984	104.389	36.178	1.00	0.00	H
ATOM	9949	C	ARG	1048	-9.619	102.142	34.127	1.00	0.00	C
ATOM	9950	O	ARG	1048	-8.449	101.819	33.930	1.00	0.00	O
ATOM	9951	N	VAL	1049	-10.314	102.930	33.287	1.00	0.00	N
ATOM	9952	HN	VAL	1049	-11.278	103.162	33.528	1.00	0.00	H
ATOM	9953	CA	VAL	1049	-9.772	103.460	32.073	1.00	0.00	C
ATOM	9954	CB	VAL	1049	-10.821	103.944	31.114	1.00	0.00	C
ATOM	9955	CG1	VAL	1049	-11.641	105.051	31.798	1.00	0.00	C
ATOM	9956	CG2	VAL	1049	-10.124	104.404	29.821	1.00	0.00	C
ATOM	9957	C	VAL	1049	-8.919	104.619	32.448	1.00	0.00	C
ATOM	9958	O	VAL	1049	-9.095	105.189	33.523	1.00	0.00	O
ATOM	9959	N	VAL	1050	-7.953	104.974	31.576	1.00	0.00	N
ATOM	9960	HN	VAL	1050	-7.853	104.466	30.697	1.00	0.00	H
ATOM	9961	CA	VAL	1050	-7.067	106.059	31.875	1.00	0.00	C
ATOM	9962	CB	VAL	1050	-5.905	106.131	30.921	1.00	0.00	C
ATOM	9963	CG1	VAL	1050	-5.009	107.323	31.301	1.00	0.00	C
ATOM	9964	CG2	VAL	1050	-5.175	104.775	30.934	1.00	0.00	C
ATOM	9965	C	VAL	1050	-7.846	107.335	31.759	1.00	0.00	C
ATOM	9966	O	VAL	1050	-7.721	108.075	30.785	1.00	0.00	O
ATOM	9967	N	SER	1051	-8.648	107.645	32.796	1.00	0.00	N
ATOM	9968	HN	SER	1051	-8.691	107.023	33.603	1.00	0.00	H
ATOM	9969	CA	SER	1051	-9.441	108.838	32.779	1.00	0.00	C
ATOM	9970	CB	SER	1051	-10.390	108.922	33.986	1.00	0.00	C
ATOM	9971	OG	SER	1051	-11.156	110.116	33.937	1.00	0.00	O
ATOM	9972	HG	SER	1051	-11.742	110.168	34.683	1.00	0.00	H
ATOM	9973	C	SER	1051	-8.477	109.976	32.857	1.00	0.00	C
ATOM	9974	O	SER	1051	-7.839	110.190	33.886	1.00	0.00	O
ATOM	9975	N	GLN	1052	-8.376	110.778	31.780	1.00	0.00	N
ATOM	9976	HN	GLN	1052	-9.006	110.679	30.984	1.00	0.00	H
ATOM	9977	CA	GLN	1052	-7.348	111.775	31.798	1.00	0.00	C
ATOM	9978	CB	GLN	1052	-7.179	112.555	30.477	1.00	0.00	C
ATOM	9979	CG	GLN	1052	-8.347	113.460	30.089	1.00	0.00	C
ATOM	9980	CD	GLN	1052	-7.920	114.265	28.876	1.00	0.00	C
ATOM	9981	OE1	GLN	1052	-6.771	114.181	28.446	1.00	0.00	O
ATOM	9982	NE2	GLN	1052	-8.859	115.071	28.310	1.00	0.00	N
ATOM	9983	1HE2	GLN	1052	-8.572	115.612	27.494	1.00	0.00	H
ATOM	9984	2HE2	GLN	1052	-9.812	115.141	28.667	1.00	0.00	H
ATOM	9985	C	GLN	1052	-7.586	112.754	32.897	1.00	0.00	C
ATOM	9986	O	GLN	1052	-6.692	113.000	33.706	1.00	0.00	O
ATOM	9987	N	GLU	1053	-8.825	113.265	33.009	1.00	0.00	N

ATOM	9988	HN	GLU	1053	-9.564	112.922	32.396	1.00	0.00	H
ATOM	9989	CA	GLU	1053	-9.128	114.282	33.972	1.00	0.00	C
ATOM	9990	CB	GLU	1053	-10.627	114.607	34.027	1.00	0.00	C
ATOM	9991	CG	GLU	1053	-11.231	114.852	32.649	1.00	0.00	C
ATOM	9992	CD	GLU	1053	-11.557	113.476	32.078	1.00	0.00	C
ATOM	9993	OE1	GLU	1053	-12.595	112.896	32.490	1.00	0.00	O
ATOM	9994	OE2	GLU	1053	-10.775	112.976	31.230	1.00	0.00	O
ATOM	9995	C	GLU	1053	-8.814	113.681	35.290	1.00	0.00	C
ATOM	9996	O	GLU	1053	-8.308	114.350	36.190	1.00	0.00	O
ATOM	9997	N	GLU	1054	-9.116	112.379	35.424	1.00	0.00	N
ATOM	9998	HN	GLU	1054	-9.506	111.854	34.642	1.00	0.00	H
ATOM	9999	CA	GLU	1054	-8.881	111.744	36.680	1.00	0.00	C
ATOM	10000	CB	GLU	1054	-9.354	110.290	36.762	1.00	0.00	C
ATOM	10001	CG	GLU	1054	-9.377	109.813	38.215	1.00	0.00	C
ATOM	10002	CD	GLU	1054	-9.523	108.308	38.224	1.00	0.00	C
ATOM	10003	OE1	GLU	1054	-8.862	107.660	37.372	1.00	0.00	O
ATOM	10004	OE2	GLU	1054	-10.285	107.786	39.080	1.00	0.00	O
ATOM	10005	C	GLU	1054	-7.410	111.746	36.963	1.00	0.00	C
ATOM	10006	O	GLU	1054	-6.998	112.114	38.061	1.00	0.00	O
ATOM	10007	N	ILE	1055	-6.578	111.410	35.954	1.00	0.00	N
ATOM	10008	HN	ILE	1055	-6.975	111.198	35.039	1.00	0.00	H
ATOM	10009	CA	ILE	1055	-5.150	111.341	36.124	1.00	0.00	C
ATOM	10010	CB	ILE	1055	-4.384	111.298	34.841	1.00	0.00	C
ATOM	10011	CG1	ILE	1055	-4.810	110.164	33.921	1.00	0.00	C
ATOM	10012	CG2	ILE	1055	-2.894	111.264	35.204	1.00	0.00	C
ATOM	10013	CD1	ILE	1055	-4.243	110.346	32.514	1.00	0.00	C
ATOM	10014	C	ILE	1055	-4.743	112.685	36.615	1.00	0.00	C
ATOM	10015	O	ILE	1055	-3.782	112.830	37.370	1.00	0.00	O
ATOM	10016	N	VAL	1056	-5.424	113.709	36.078	1.00	0.00	N
ATOM	10017	HN	VAL	1056	-6.147	113.498	35.390	1.00	0.00	H
ATOM	10018	CA	VAL	1056	-5.193	115.080	36.417	1.00	0.00	C
ATOM	10019	CB	VAL	1056	-5.983	116.024	35.561	1.00	0.00	C
ATOM	10020	CG1	VAL	1056	-5.697	117.462	36.028	1.00	0.00	C
ATOM	10021	CG2	VAL	1056	-5.622	115.762	34.089	1.00	0.00	C
ATOM	10022	C	VAL	1056	-5.584	115.310	37.841	1.00	0.00	C
ATOM	10023	O	VAL	1056	-4.894	116.018	38.574	1.00	0.00	O
ATOM	10024	N	ARG	1057	-6.707	114.710	38.278	1.00	0.00	N
ATOM	10025	HN	ARG	1057	-7.245	114.113	37.650	1.00	0.00	H
ATOM	10026	CA	ARG	1057	-7.145	114.911	39.628	1.00	0.00	C
ATOM	10027	CB	ARG	1057	-8.375	114.066	39.992	1.00	0.00	C
ATOM	10028	CG	ARG	1057	-9.638	114.521	39.276	1.00	0.00	C
ATOM	10029	CD	ARG	1057	-9.823	116.034	39.368	1.00	0.00	C
ATOM	10030	NE	ARG	1057	-11.098	116.373	38.687	1.00	0.00	N
ATOM	10031	HE	ARG	1057	-11.107	116.618	37.697	1.00	0.00	H
ATOM	10032	CZ	ARG	1057	-12.258	116.352	39.405	1.00	0.00	C
ATOM	10033	NH1	ARG	1057	-12.231	116.011	40.727	1.00	0.00	N
ATOM	10034	1HH1	ARG	1057	-13.098	115.995	41.264	1.00	0.00	H
ATOM	10035	2HH1	ARG	1057	-11.347	115.768	41.175	1.00	0.00	H
ATOM	10036	NH2	ARG	1057	-13.440	116.677	38.806	1.00	0.00	N
ATOM	10037	1HH2	ARG	1057	-14.307	116.661	39.343	1.00	0.00	H
ATOM	10038	2HH2	ARG	1057	-13.460	116.932	37.819	1.00	0.00	H
ATOM	10039	C	ARG	1057	-6.046	114.431	40.504	1.00	0.00	C
ATOM	10040	O	ARG	1057	-5.679	115.083	41.481	1.00	0.00	O
ATOM	10041	N	ALA	1058	-5.482	113.264	40.153	1.00	0.00	N
ATOM	10042	HN	ALA	1058	-5.798	112.779	39.313	1.00	0.00	H
ATOM	10043	CA	ALA	1058	-4.442	112.701	40.952	1.00	0.00	C
ATOM	10044	CB	ALA	1058	-3.925	111.373	40.383	1.00	0.00	C
ATOM	10045	C	ALA	1058	-3.287	113.633	40.972	1.00	0.00	C
ATOM	10046	O	ALA	1058	-2.887	114.067	42.040	1.00	0.00	O
ATOM	10047	N	ALA	1059	-2.804	114.078	39.802	1.00	0.00	N
ATOM	10048	HN	ALA	1059	-3.279	113.822	38.936	1.00	0.00	H
ATOM	10049	CA	ALA	1059	-1.633	114.907	39.743	1.00	0.00	C
ATOM	10050	CB	ALA	1059	-1.296	115.372	38.317	1.00	0.00	C
ATOM	10051	C	ALA	1059	-1.894	116.122	40.570	1.00	0.00	C
ATOM	10052	O	ALA	1059	-0.978	116.675	41.178	1.00	0.00	O
ATOM	10053	N	LYS	1060	-3.155	116.588	40.594	1.00	0.00	N
ATOM	10054	HN	LYS	1060	-3.899	116.124	40.072	1.00	0.00	H
ATOM	10055	CA	LYS	1060	-3.418	117.757	41.377	1.00	0.00	C
ATOM	10056	CB	LYS	1060	-4.844	118.283	41.169	1.00	0.00	C
ATOM	10057	CG	LYS	1060	-4.995	118.908	39.782	1.00	0.00	C
ATOM	10058	CD	LYS	1060	-6.435	119.168	39.354	1.00	0.00	C
ATOM	10059	CE	LYS	1060	-6.545	119.849	37.987	1.00	0.00	C
ATOM	10060	NZ	LYS	1060	-6.108	121.260	38.085	1.00	0.00	N
ATOM	10061	HZ1	LYS	1060	-6.181	121.714	37.174	1.00	0.00	H



ATOM	10062	HZ2	LYS	1060	-5.171	121.343	38.478	1.00	0.00	H
ATOM	10063	HZ3	LYS	1060	-6.619	121.768	38.807	1.00	0.00	H
ATOM	10064	C	LYS	1060	-3.181	117.527	42.847	1.00	0.00	C
ATOM	10065	O	LYS	1060	-2.248	118.089	43.415	1.00	0.00	O
ATOM	10066	N	GLU	1061	-3.946	116.617	43.486	1.00	0.00	N
ATOM	10067	HN	GLU	1061	-4.603	116.059	42.941	1.00	0.00	H
ATOM	10068	CA	GLU	1061	-3.869	116.404	44.912	1.00	0.00	C
ATOM	10069	CB	GLU	1061	-4.925	115.400	45.412	1.00	0.00	C
ATOM	10070	CG	GLU	1061	-5.544	115.724	46.780	1.00	0.00	C
ATOM	10071	CD	GLU	1061	-4.484	116.144	47.790	1.00	0.00	C
ATOM	10072	OE1	GLU	1061	-3.807	117.178	47.546	1.00	0.00	O
ATOM	10073	OE2	GLU	1061	-4.358	115.451	48.835	1.00	0.00	O
ATOM	10074	C	GLU	1061	-2.520	115.824	45.200	1.00	0.00	C
ATOM	10075	O	GLU	1061	-1.970	115.955	46.292	1.00	0.00	O
ATOM	10076	N	ALA	1062	-1.978	115.110	44.205	1.00	0.00	N
ATOM	10077	HN	ALA	1062	-2.507	115.029	43.337	1.00	0.00	H
ATOM	10078	CA	ALA	1062	-0.709	114.453	44.274	1.00	0.00	C
ATOM	10079	CB	ALA	1062	-0.343	113.693	42.989	1.00	0.00	C
ATOM	10080	C	ALA	1062	0.327	115.506	44.477	1.00	0.00	C
ATOM	10081	O	ALA	1062	1.253	115.327	45.265	1.00	0.00	O
ATOM	10082	N	ASN	1063	0.156	116.658	43.801	1.00	0.00	N
ATOM	10083	HN	ASN	1063	-0.672	116.764	43.215	1.00	0.00	H
ATOM	10084	CA	ASN	1063	1.094	117.742	43.873	1.00	0.00	C
ATOM	10085	CB	ASN	1063	1.531	118.056	45.314	1.00	0.00	C
ATOM	10086	CG	ASN	1063	0.311	118.548	46.079	1.00	0.00	C
ATOM	10087	OD1	ASN	1063	-0.246	119.601	45.776	1.00	0.00	O
ATOM	10088	ND2	ASN	1063	-0.124	117.761	47.099	1.00	0.00	N
ATOM	10089	1HD2	ASN	1063	0.338	116.887	47.350	1.00	0.00	H
ATOM	10090	2HD2	ASN	1063	-0.942	118.091	47.612	1.00	0.00	H
ATOM	10091	C	ASN	1063	2.317	117.395	43.080	1.00	0.00	C
ATOM	10092	O	ASN	1063	3.385	117.976	43.267	1.00	0.00	O
ATOM	10093	N	ILE	1064	2.188	116.381	42.210	1.00	0.00	N
ATOM	10094	HN	ILE	1064	1.326	115.839	42.264	1.00	0.00	H
ATOM	10095	CA	ILE	1064	3.139	115.981	41.211	1.00	0.00	C
ATOM	10096	CB	ILE	1064	2.887	114.608	40.662	1.00	0.00	C
ATOM	10097	CG1	ILE	1064	4.026	114.207	39.709	1.00	0.00	C
ATOM	10098	CG2	ILE	1064	1.493	114.598	40.016	1.00	0.00	C
ATOM	10099	CD1	ILE	1064	5.390	114.120	40.393	1.00	0.00	C
ATOM	10100	C	ILE	1064	3.026	116.965	40.095	1.00	0.00	C
ATOM	10101	O	ILE	1064	3.917	117.121	39.260	1.00	0.00	O
ATOM	10102	N	HIS	1065	1.857	117.620	40.049	1.00	0.00	N
ATOM	10103	HN	HIS	1065	1.213	117.479	40.828	1.00	0.00	H
ATOM	10104	CA	HIS	1065	1.434	118.499	39.004	1.00	0.00	C
ATOM	10105	ND1	HIS	1065	-0.252	120.678	37.306	1.00	0.00	N
ATOM	10106	HD1	HIS	1065	0.602	121.231	37.384	1.00	0.00	H
ATOM	10107	CG	HIS	1065	-0.657	119.669	38.149	1.00	0.00	C
ATOM	10108	CB	HIS	1065	0.105	119.194	39.350	1.00	0.00	C
ATOM	10109	NE2	HIS	1065	-2.197	119.935	36.522	1.00	0.00	N
ATOM	10110	HE2	HIS	1065	-3.031	119.819	35.946	1.00	0.00	H
ATOM	10111	CD2	HIS	1065	-1.847	119.227	37.656	1.00	0.00	C
ATOM	10112	CE1	HIS	1065	-1.209	120.795	36.351	1.00	0.00	C
ATOM	10113	C	HIS	1065	2.480	119.555	38.810	1.00	0.00	C
ATOM	10114	O	HIS	1065	2.607	120.094	37.714	1.00	0.00	O
ATOM	10115	N	ALA	1066	3.263	119.884	39.857	1.00	0.00	N
ATOM	10116	HN	ALA	1066	3.146	119.403	40.749	1.00	0.00	H
ATOM	10117	CA	ALA	1066	4.262	120.910	39.723	1.00	0.00	C
ATOM	10118	CB	ALA	1066	5.140	121.056	40.978	1.00	0.00	C
ATOM	10119	C	ALA	1066	5.164	120.529	38.587	1.00	0.00	C
ATOM	10120	O	ALA	1066	5.597	121.388	37.821	1.00	0.00	O
ATOM	10121	N	PHE	1067	5.505	119.231	38.484	1.00	0.00	N
ATOM	10122	HN	PHE	1067	5.200	118.594	39.220	1.00	0.00	H
ATOM	10123	CA	PHE	1067	6.274	118.691	37.396	1.00	0.00	C
ATOM	10124	CB	PHE	1067	6.829	117.292	37.703	1.00	0.00	C
ATOM	10125	CG	PHE	1067	7.938	117.511	38.671	1.00	0.00	C
ATOM	10126	CD1	PHE	1067	7.669	117.821	39.983	1.00	0.00	C
ATOM	10127	CD2	PHE	1067	9.248	117.407	38.262	1.00	0.00	C
ATOM	10128	CE1	PHE	1067	8.695	118.028	40.873	1.00	0.00	C
ATOM	10129	CE2	PHE	1067	10.278	117.611	39.148	1.00	0.00	C
ATOM	10130	CZ	PHE	1067	10.001	117.924	40.456	1.00	0.00	C
ATOM	10131	C	PHE	1067	5.424	118.615	36.165	1.00	0.00	C
ATOM	10132	O	PHE	1067	5.906	118.786	35.047	1.00	0.00	O
ATOM	10133	N	ILE	1068	4.126	118.320	36.351	1.00	0.00	N
ATOM	10134	HN	ILE	1068	3.784	118.234	37.308	1.00	0.00	H
ATOM	10135	CA	ILE	1068	3.195	118.120	35.280	1.00	0.00	C

ATOM	10136	CB	ILE	1068	1.846	117.699	35.784	1.00	0.00	C
ATOM	10137	CG1	ILE	1068	1.979	116.405	36.605	1.00	0.00	C
ATOM	10138	CG2	ILE	1068	0.889	117.592	34.588	1.00	0.00	C
ATOM	10139	CD1	ILE	1068	2.721	115.287	35.878	1.00	0.00	C
ATOM	10140	C	ILE	1068	3.006	119.375	34.488	1.00	0.00	C
ATOM	10141	O	ILE	1068	2.915	119.332	33.263	1.00	0.00	O
ATOM	10142	N	GLU	1069	2.917	120.535	35.159	1.00	0.00	N
ATOM	10143	HN	GLU	1069	3.067	120.563	36.168	1.00	0.00	H
ATOM	10144	CA	GLU	1069	2.609	121.732	34.437	1.00	0.00	C
ATOM	10145	CB	GLU	1069	2.598	122.971	35.349	1.00	0.00	C
ATOM	10146	CG	GLU	1069	1.532	122.947	36.446	1.00	0.00	C
ATOM	10147	CD	GLU	1069	1.743	124.189	37.301	1.00	0.00	C
ATOM	10148	OE1	GLU	1069	1.220	125.270	36.919	1.00	0.00	O
ATOM	10149	OE2	GLU	1069	2.441	124.074	38.344	1.00	0.00	O
ATOM	10150	C	GLU	1069	3.654	122.012	33.397	1.00	0.00	C
ATOM	10151	O	GLU	1069	3.340	122.113	32.212	1.00	0.00	O
ATOM	10152	N	SER	1070	4.917	122.194	33.832	1.00	0.00	N
ATOM	10153	HN	SER	1070	5.119	122.066	34.824	1.00	0.00	H
ATOM	10154	CA	SER	1070	5.988	122.562	32.948	1.00	0.00	C
ATOM	10155	CB	SER	1070	7.095	123.333	33.683	1.00	0.00	C
ATOM	10156	OG	SER	1070	8.129	123.678	32.775	1.00	0.00	O
ATOM	10157	HG	SER	1070	8.814	124.155	33.230	1.00	0.00	H
ATOM	10158	C	SER	1070	6.647	121.434	32.221	1.00	0.00	C
ATOM	10159	O	SER	1070	6.365	121.195	31.047	1.00	0.00	O
ATOM	10160	N	LEU	1071	7.449	120.655	32.993	1.00	0.00	N
ATOM	10161	HN	LEU	1071	7.338	120.757	34.002	1.00	0.00	H
ATOM	10162	CA	LEU	1071	8.439	119.700	32.556	1.00	0.00	C
ATOM	10163	CB	LEU	1071	8.689	118.566	33.567	1.00	0.00	C
ATOM	10164	CG	LEU	1071	9.314	119.043	34.893	1.00	0.00	C
ATOM	10165	CD1	LEU	1071	10.718	119.626	34.668	1.00	0.00	C
ATOM	10166	CD2	LEU	1071	8.382	120.004	35.646	1.00	0.00	C
ATOM	10167	C	LEU	1071	8.057	119.094	31.253	1.00	0.00	C
ATOM	10168	O	LEU	1071	6.947	118.607	31.051	1.00	0.00	O
ATOM	10169	N	PRO	1072	9.033	119.135	30.379	1.00	0.00	N
ATOM	10170	CA	PRO	1072	8.893	118.800	28.993	1.00	0.00	C
ATOM	10171	CD	PRO	1072	10.418	119.332	30.774	1.00	0.00	C
ATOM	10172	CB	PRO	1072	10.316	118.670	28.448	1.00	0.00	C
ATOM	10173	CG	PRO	1072	11.182	119.462	29.445	1.00	0.00	C
ATOM	10174	C	PRO	1072	8.095	117.560	28.805	1.00	0.00	C
ATOM	10175	O	PRO	1072	8.227	116.631	29.596	1.00	0.00	O
ATOM	10176	N	ASN	1073	7.214	117.574	27.790	1.00	0.00	N
ATOM	10177	HN	ASN	1073	7.140	118.426	27.234	1.00	0.00	H
ATOM	10178	CA	ASN	1073	6.374	116.471	27.440	1.00	0.00	C
ATOM	10179	CB	ASN	1073	7.163	115.159	27.267	1.00	0.00	C
ATOM	10180	CG	ASN	1073	8.024	115.275	26.014	1.00	0.00	C
ATOM	10181	OD1	ASN	1073	7.516	115.494	24.915	1.00	0.00	O
ATOM	10182	ND2	ASN	1073	9.366	115.131	26.181	1.00	0.00	N
ATOM	10183	1HD2	ASN	1073	9.942	115.209	25.343	1.00	0.00	H
ATOM	10184	2HD2	ASN	1073	9.787	114.949	27.092	1.00	0.00	H
ATOM	10185	C	ASN	1073	5.340	116.255	28.506	1.00	0.00	C
ATOM	10186	O	ASN	1073	4.435	115.446	28.314	1.00	0.00	O
ATOM	10187	N	LYS	1074	5.400	117.017	29.619	1.00	0.00	N
ATOM	10188	HN	LYS	1074	6.162	117.688	29.719	1.00	0.00	H
ATOM	10189	CA	LYS	1074	4.418	116.910	30.670	1.00	0.00	C
ATOM	10190	CB	LYS	1074	3.080	117.566	30.306	1.00	0.00	C
ATOM	10191	CG	LYS	1074	3.207	119.062	30.032	1.00	0.00	C
ATOM	10192	CD	LYS	1074	1.972	119.650	29.355	1.00	0.00	C
ATOM	10193	CE	LYS	1074	2.084	121.149	29.080	1.00	0.00	C
ATOM	10194	NZ	LYS	1074	0.848	121.630	28.425	1.00	0.00	N
ATOM	10195	HZ1	LYS	1074	0.923	122.631	28.241	1.00	0.00	H
ATOM	10196	HZ2	LYS	1074	0.013	121.400	28.964	1.00	0.00	H
ATOM	10197	HZ3	LYS	1074	0.629	121.100	27.581	1.00	0.00	H
ATOM	10198	C	LYS	1074	4.148	115.470	31.020	1.00	0.00	C
ATOM	10199	O	LYS	1074	5.060	114.656	31.159	1.00	0.00	O
ATOM	10200	N	TYR	1075	2.846	115.127	31.124	1.00	0.00	N
ATOM	10201	HN	TYR	1075	2.142	115.838	30.925	1.00	0.00	H
ATOM	10202	CA	TYR	1075	2.399	113.811	31.501	1.00	0.00	C
ATOM	10203	CB	TYR	1075	0.878	113.558	31.431	1.00	0.00	C
ATOM	10204	CG	TYR	1075	0.116	114.183	32.553	1.00	0.00	C
ATOM	10205	CD1	TYR	1075	0.150	113.627	33.812	1.00	0.00	C
ATOM	10206	CD2	TYR	1075	-0.635	115.317	32.350	1.00	0.00	C
ATOM	10207	CE1	TYR	1075	-0.558	114.186	34.850	1.00	0.00	C
ATOM	10208	CE2	TYR	1075	-1.347	115.881	33.382	1.00	0.00	C
ATOM	10209	CZ	TYR	1075	-1.310	115.317	34.633	1.00	0.00	C

ATOM	10210	OH	TYR	1075	-2.044	115.902	35.687	1.00	0.00	O
ATOM	10211	HH	TYR	1075	-2.018	115.512	36.553	1.00	0.00	H
ATOM	10212	C	TYR	1075	2.966	112.796	30.556	1.00	0.00	C
ATOM	10213	O	TYR	1075	3.204	111.653	30.943	1.00	0.00	O
ATOM	10214	N	SER	1076	3.148	113.159	29.276	1.00	0.00	N
ATOM	10215	HN	SER	1076	2.967	114.120	28.985	1.00	0.00	H
ATOM	10216	CA	SER	1076	3.599	112.188	28.317	1.00	0.00	C
ATOM	10217	CB	SER	1076	3.681	112.718	26.872	1.00	0.00	C
ATOM	10218	OG	SER	1076	4.853	113.498	26.691	1.00	0.00	O
ATOM	10219	HG	SER	1076	4.904	113.825	25.800	1.00	0.00	H
ATOM	10220	C	SER	1076	4.969	111.704	28.681	1.00	0.00	C
ATOM	10221	O	SER	1076	5.382	110.633	28.240	1.00	0.00	O
ATOM	10222	N	THR	1077	5.709	112.472	29.505	1.00	0.00	N
ATOM	10223	HN	THR	1077	5.313	113.328	29.893	1.00	0.00	H
ATOM	10224	CA	THR	1077	7.054	112.091	29.839	1.00	0.00	C
ATOM	10225	CB	THR	1077	7.661	112.955	30.899	1.00	0.00	C
ATOM	10226	OG1	THR	1077	7.613	114.312	30.502	1.00	0.00	O
ATOM	10227	HG1	THR	1077	7.998	114.861	31.175	1.00	0.00	H
ATOM	10228	CG2	THR	1077	9.120	112.521	31.123	1.00	0.00	C
ATOM	10229	C	THR	1077	7.049	110.716	30.414	1.00	0.00	C
ATOM	10230	O	THR	1077	6.414	110.445	31.431	1.00	0.00	O
ATOM	10231	N	LYS	1078	7.798	109.804	29.776	1.00	0.00	N
ATOM	10232	HN	LYS	1078	8.309	110.056	28.930	1.00	0.00	H
ATOM	10233	CA	LYS	1078	7.871	108.476	30.297	1.00	0.00	C
ATOM	10234	CB	LYS	1078	8.737	107.494	29.491	1.00	0.00	C
ATOM	10235	CG	LYS	1078	8.159	107.002	28.171	1.00	0.00	C
ATOM	10236	CD	LYS	1078	9.175	106.206	27.347	1.00	0.00	C
ATOM	10237	CE	LYS	1078	9.617	104.900	28.016	1.00	0.00	C
ATOM	10238	NZ	LYS	1078	10.558	104.167	27.138	1.00	0.00	N
ATOM	10239	HZ1	LYS	1078	10.852	103.298	27.583	1.00	0.00	H
ATOM	10240	HZ2	LYS	1078	11.354	104.744	26.867	1.00	0.00	H
ATOM	10241	HZ3	LYS	1078	10.166	104.006	26.210	1.00	0.00	H
ATOM	10242	C	LYS	1078	8.604	108.599	31.577	1.00	0.00	C
ATOM	10243	O	LYS	1078	9.248	109.605	31.861	1.00	0.00	O
ATOM	10244	N	VAL	1079	8.552	107.532	32.379	1.00	0.00	N
ATOM	10245	HN	VAL	1079	7.980	106.729	32.115	1.00	0.00	H
ATOM	10246	CA	VAL	1079	9.286	107.504	33.597	1.00	0.00	C
ATOM	10247	CB	VAL	1079	9.039	106.253	34.381	1.00	0.00	C
ATOM	10248	CG1	VAL	1079	9.291	105.049	33.485	1.00	0.00	C
ATOM	10249	CG2	VAL	1079	9.940	106.268	35.612	1.00	0.00	C
ATOM	10250	C	VAL	1079	10.724	107.657	33.197	1.00	0.00	C
ATOM	10251	O	VAL	1079	11.556	108.075	33.998	1.00	0.00	O
ATOM	10252	N	GLY	1080	11.054	107.294	31.938	1.00	0.00	N
ATOM	10253	HN	GLY	1080	10.364	106.818	31.356	1.00	0.00	H
ATOM	10254	CA	GLY	1080	12.356	107.566	31.406	1.00	0.00	C
ATOM	10255	C	GLY	1080	13.401	106.694	32.015	1.00	0.00	C
ATOM	10256	O	GLY	1080	13.977	107.021	33.050	1.00	0.00	O
ATOM	10257	N	ASP	1081	13.688	105.564	31.340	1.00	0.00	N
ATOM	10258	HN	ASP	1081	13.165	105.365	30.487	1.00	0.00	H
ATOM	10259	CA	ASP	1081	14.691	104.626	31.757	1.00	0.00	C
ATOM	10260	CB	ASP	1081	16.079	105.273	31.922	1.00	0.00	C
ATOM	10261	CG	ASP	1081	17.112	104.166	32.090	1.00	0.00	C
ATOM	10262	OD1	ASP	1081	16.713	102.972	32.033	1.00	0.00	O
ATOM	10263	OD2	ASP	1081	18.311	104.498	32.286	1.00	0.00	O
ATOM	10264	C	ASP	1081	14.299	103.994	33.050	1.00	0.00	C
ATOM	10265	O	ASP	1081	15.126	103.732	33.922	1.00	0.00	O
ATOM	10266	N	LYS	1082	12.997	103.707	33.180	1.00	0.00	N
ATOM	10267	HN	LYS	1082	12.357	104.003	32.443	1.00	0.00	H
ATOM	10268	CA	LYS	1082	12.464	103.004	34.306	1.00	0.00	C
ATOM	10269	CB	LYS	1082	13.165	101.660	34.558	1.00	0.00	C
ATOM	10270	CG	LYS	1082	12.926	100.661	33.426	1.00	0.00	C
ATOM	10271	CD	LYS	1082	13.502	101.141	32.095	1.00	0.00	C
ATOM	10272	CE	LYS	1082	13.059	100.302	30.899	1.00	0.00	C
ATOM	10273	NZ	LYS	1082	13.122	101.126	29.673	1.00	0.00	N
ATOM	10274	HZ1	LYS	1082	12.826	100.565	28.874	1.00	0.00	H
ATOM	10275	HZ2	LYS	1082	14.043	101.541	29.534	1.00	0.00	H
ATOM	10276	HZ3	LYS	1082	12.585	101.989	29.760	1.00	0.00	H
ATOM	10277	C	LYS	1082	12.539	103.819	35.557	1.00	0.00	C
ATOM	10278	O	LYS	1082	12.335	103.271	36.639	1.00	0.00	O
ATOM	10279	N	GLY	1083	12.749	105.151	35.457	1.00	0.00	N
ATOM	10280	HN	GLY	1083	12.965	105.591	34.562	1.00	0.00	H
ATOM	10281	CA	GLY	1083	12.654	105.919	36.666	1.00	0.00	C
ATOM	10282	C	GLY	1083	13.723	106.950	36.869	1.00	0.00	C
ATOM	10283	O	GLY	1083	13.364	108.121	36.963	1.00	0.00	O

ATOM	10284	N	THR	1084	15.027	106.593	36.886	1.00	0.00	N
ATOM	10285	HN	THR	1084	15.293	105.644	36.623	1.00	0.00	H
ATOM	10286	CA	THR	1084	16.046	107.539	37.272	1.00	0.00	C
ATOM	10287	CB	THR	1084	17.444	106.988	37.158	1.00	0.00	C
ATOM	10288	OG1	THR	1084	18.388	107.957	37.586	1.00	0.00	O
ATOM	10289	HG1	THR	1084	19.269	107.610	37.514	1.00	0.00	H
ATOM	10290	CG2	THR	1084	17.729	106.559	35.709	1.00	0.00	C
ATOM	10291	C	THR	1084	15.952	108.817	36.490	1.00	0.00	C
ATOM	10292	O	THR	1084	16.395	108.918	35.347	1.00	0.00	O
ATOM	10293	N	GLN	1085	15.336	109.843	37.116	1.00	0.00	N
ATOM	10294	HN	GLN	1085	14.947	109.706	38.049	1.00	0.00	H
ATOM	10295	CA	GLN	1085	15.225	111.121	36.480	1.00	0.00	C
ATOM	10296	CB	GLN	1085	14.422	111.078	35.173	1.00	0.00	C
ATOM	10297	CG	GLN	1085	12.957	110.692	35.372	1.00	0.00	C
ATOM	10298	CD	GLN	1085	12.289	110.719	34.007	1.00	0.00	C
ATOM	10299	OE1	GLN	1085	12.843	110.234	33.022	1.00	0.00	O
ATOM	10300	NE2	GLN	1085	11.065	111.308	33.943	1.00	0.00	N
ATOM	10301	1HE2	GLN	1085	10.606	111.710	34.760	1.00	0.00	H
ATOM	10302	2HE2	GLN	1085	10.617	111.326	33.027	1.00	0.00	H
ATOM	10303	C	GLN	1085	14.503	112.059	37.405	1.00	0.00	C
ATOM	10304	O	GLN	1085	14.433	113.254	37.132	1.00	0.00	O
ATOM	10305	N	LEU	1086	13.904	111.544	38.502	1.00	0.00	N
ATOM	10306	HN	LEU	1086	13.922	110.536	38.659	1.00	0.00	H
ATOM	10307	CA	LEU	1086	13.240	112.401	39.452	1.00	0.00	C
ATOM	10308	CB	LEU	1086	11.718	112.583	39.275	1.00	0.00	C
ATOM	10309	CG	LEU	1086	11.289	113.648	38.245	1.00	0.00	C
ATOM	10310	CD1	LEU	1086	11.758	115.050	38.663	1.00	0.00	C
ATOM	10311	CD2	LEU	1086	11.705	113.288	36.822	1.00	0.00	C
ATOM	10312	C	LEU	1086	13.445	111.889	40.843	1.00	0.00	C
ATOM	10313	O	LEU	1086	13.540	110.685	41.081	1.00	0.00	O
ATOM	10314	N	SER	1087	13.485	112.820	41.817	1.00	0.00	N
ATOM	10315	HN	SER	1087	13.342	113.804	41.589	1.00	0.00	H
ATOM	10316	CA	SER	1087	13.728	112.427	43.171	1.00	0.00	C
ATOM	10317	CB	SER	1087	14.064	113.578	44.140	1.00	0.00	C
ATOM	10318	OG	SER	1087	12.906	114.332	44.453	1.00	0.00	O
ATOM	10319	HG	SER	1087	13.113	115.041	45.050	1.00	0.00	H
ATOM	10320	C	SER	1087	12.528	111.711	43.689	1.00	0.00	C
ATOM	10321	O	SER	1087	11.439	111.761	43.119	1.00	0.00	O
ATOM	10322	N	GLY	1088	12.724	111.016	44.818	1.00	0.00	N
ATOM	10323	HN	GLY	1088	13.635	111.073	45.273	1.00	0.00	H
ATOM	10324	CA	GLY	1088	11.713	110.198	45.413	1.00	0.00	C
ATOM	10325	C	GLY	1088	10.550	111.051	45.796	1.00	0.00	C
ATOM	10326	O	GLY	1088	9.414	110.577	45.810	1.00	0.00	O
ATOM	10327	N	GLY	1089	10.800	112.326	46.155	1.00	0.00	N
ATOM	10328	HN	GLY	1089	11.746	112.705	46.107	1.00	0.00	H
ATOM	10329	CA	GLY	1089	9.709	113.138	46.606	1.00	0.00	C
ATOM	10330	C	GLY	1089	8.672	113.208	45.532	1.00	0.00	C
ATOM	10331	O	GLY	1089	7.493	112.967	45.788	1.00	0.00	O
ATOM	10332	N	GLN	1090	9.090	113.504	44.289	1.00	0.00	N
ATOM	10333	HN	GLN	1090	10.082	113.664	44.115	1.00	0.00	H
ATOM	10334	CA	GLN	1090	8.154	113.597	43.205	1.00	0.00	C
ATOM	10335	CB	GLN	1090	8.815	113.929	41.853	1.00	0.00	C
ATOM	10336	CG	GLN	1090	9.445	115.319	41.758	1.00	0.00	C
ATOM	10337	CD	GLN	1090	10.736	115.332	42.558	1.00	0.00	C
ATOM	10338	OE1	GLN	1090	10.716	115.494	43.776	1.00	0.00	O
ATOM	10339	NE2	GLN	1090	11.889	115.166	41.855	1.00	0.00	N
ATOM	10340	1HE2	GLN	1090	11.906	115.032	40.844	1.00	0.00	H
ATOM	10341	2HE2	GLN	1090	12.756	115.175	42.392	1.00	0.00	H
ATOM	10342	C	GLN	1090	7.538	112.248	43.035	1.00	0.00	C
ATOM	10343	O	GLN	1090	6.334	112.117	42.815	1.00	0.00	O
ATOM	10344	N	LYS	1091	8.363	111.194	43.167	1.00	0.00	N
ATOM	10345	HN	LYS	1091	9.338	111.339	43.429	1.00	0.00	H
ATOM	10346	CA	LYS	1091	7.872	109.867	42.940	1.00	0.00	C
ATOM	10347	CB	LYS	1091	8.934	108.785	43.187	1.00	0.00	C
ATOM	10348	CG	LYS	1091	10.100	108.838	42.199	1.00	0.00	C
ATOM	10349	CD	LYS	1091	11.284	107.961	42.609	1.00	0.00	C
ATOM	10350	CE	LYS	1091	11.132	106.500	42.183	1.00	0.00	C
ATOM	10351	NZ	LYS	1091	11.388	106.374	40.731	1.00	0.00	N
ATOM	10352	HZ1	LYS	1091	11.287	105.400	40.447	1.00	0.00	H
ATOM	10353	HZ2	LYS	1091	12.295	106.759	40.466	1.00	0.00	H
ATOM	10354	HZ3	LYS	1091	10.797	106.998	40.181	1.00	0.00	H
ATOM	10355	C	LYS	1091	6.732	109.610	43.875	1.00	0.00	C
ATOM	10356	O	LYS	1091	5.671	109.152	43.453	1.00	0.00	O
ATOM	10357	N	GLN	1092	6.898	109.954	45.164	1.00	0.00	N

ATOM	10358	HN	GLN	1092	7.768	110.397	45.460	1.00	0.00	H
ATOM	10359	CA	GLN	1092	5.864	109.704	46.128	1.00	0.00	C
ATOM	10360	CB	GLN	1092	6.244	110.131	47.556	1.00	0.00	C
ATOM	10361	CG	GLN	1092	7.267	109.199	48.207	1.00	0.00	C
ATOM	10362	CD	GLN	1092	6.601	107.836	48.337	1.00	0.00	C
ATOM	10363	OE1	GLN	1092	6.156	107.254	47.349	1.00	0.00	O
ATOM	10364	NE2	GLN	1092	6.518	107.315	49.590	1.00	0.00	N
ATOM	10365	1HE2	GLN	1092	6.887	107.798	50.409	1.00	0.00	H
ATOM	10366	2HE2	GLN	1092	6.072	106.402	49.677	1.00	0.00	H
ATOM	10367	C	GLN	1092	4.651	110.469	45.716	1.00	0.00	C
ATOM	10368	O	GLN	1092	3.524	110.031	45.938	1.00	0.00	O
ATOM	10369	N	ARG	1093	4.846	111.650	45.107	1.00	0.00	N
ATOM	10370	HN	ARG	1093	5.789	112.005	44.949	1.00	0.00	H
ATOM	10371	CA	ARG	1093	3.704	112.400	44.685	1.00	0.00	C
ATOM	10372	CB	ARG	1093	4.090	113.709	43.978	1.00	0.00	C
ATOM	10373	CG	ARG	1093	4.640	114.753	44.951	1.00	0.00	C
ATOM	10374	CD	ARG	1093	5.190	116.017	44.290	1.00	0.00	C
ATOM	10375	NE	ARG	1093	5.454	116.990	45.388	1.00	0.00	N
ATOM	10376	HE	ARG	1093	4.710	117.224	46.046	1.00	0.00	H
ATOM	10377	CZ	ARG	1093	6.681	117.571	45.522	1.00	0.00	C
ATOM	10378	NH1	ARG	1093	7.686	117.253	44.656	1.00	0.00	N
ATOM	10379	1HH1	ARG	1093	8.603	117.687	44.756	1.00	0.00	H
ATOM	10380	2HH1	ARG	1093	7.516	116.585	43.904	1.00	0.00	H
ATOM	10381	NH2	ARG	1093	6.908	118.465	46.528	1.00	0.00	N
ATOM	10382	1HH2	ARG	1093	7.825	118.899	46.628	1.00	0.00	H
ATOM	10383	2HH2	ARG	1093	6.157	118.703	47.175	1.00	0.00	H
ATOM	10384	C	ARG	1093	2.929	111.553	43.722	1.00	0.00	C
ATOM	10385	O	ARG	1093	1.702	111.491	43.787	1.00	0.00	O
ATOM	10386	N	ILE	1094	3.632	110.866	42.805	1.00	0.00	N
ATOM	10387	HN	ILE	1094	4.650	110.922	42.815	1.00	0.00	H
ATOM	10388	CA	ILE	1094	2.984	110.053	41.808	1.00	0.00	C
ATOM	10389	CB	ILE	1094	3.969	109.473	40.836	1.00	0.00	C
ATOM	10390	CG1	ILE	1094	4.814	110.586	40.200	1.00	0.00	C
ATOM	10391	CG2	ILE	1094	3.191	108.641	39.801	1.00	0.00	C
ATOM	10392	CD1	ILE	1094	6.050	110.058	39.472	1.00	0.00	C
ATOM	10393	C	ILE	1094	2.290	108.885	42.452	1.00	0.00	C
ATOM	10394	O	ILE	1094	1.119	108.623	42.171	1.00	0.00	O
ATOM	10395	N	ALA	1095	2.985	108.183	43.375	1.00	0.00	N
ATOM	10396	HN	ALA	1095	3.901	108.517	43.674	1.00	0.00	H
ATOM	10397	CA	ALA	1095	2.454	106.973	43.943	1.00	0.00	C
ATOM	10398	CB	ALA	1095	3.362	106.380	45.033	1.00	0.00	C
ATOM	10399	C	ALA	1095	1.156	107.315	44.580	1.00	0.00	C
ATOM	10400	O	ALA	1095	0.157	106.620	44.400	1.00	0.00	O
ATOM	10401	N	ILE	1096	1.140	108.442	45.301	1.00	0.00	N
ATOM	10402	HN	ILE	1096	1.998	108.988	45.376	1.00	0.00	H
ATOM	10403	CA	ILE	1096	-0.033	108.910	45.970	1.00	0.00	C
ATOM	10404	CB	ILE	1096	0.245	110.148	46.756	1.00	0.00	C
ATOM	10405	CG1	ILE	1096	1.203	109.772	47.899	1.00	0.00	C
ATOM	10406	CG2	ILE	1096	-1.091	110.766	47.203	1.00	0.00	C
ATOM	10407	CD1	ILE	1096	1.901	110.955	48.552	1.00	0.00	C
ATOM	10408	C	ILE	1096	-1.074	109.182	44.947	1.00	0.00	C
ATOM	10409	O	ILE	1096	-2.257	108.931	45.187	1.00	0.00	O
ATOM	10410	N	ALA	1097	-0.654	109.712	43.780	1.00	0.00	N
ATOM	10411	HN	ALA	1097	0.335	109.908	43.623	1.00	0.00	H
ATOM	10412	CA	ALA	1097	-1.623	109.994	42.767	1.00	0.00	C
ATOM	10413	CB	ALA	1097	-0.993	110.501	41.459	1.00	0.00	C
ATOM	10414	C	ALA	1097	-2.291	108.708	42.470	1.00	0.00	C
ATOM	10415	O	ALA	1097	-3.473	108.590	42.769	1.00	0.00	O
ATOM	10416	N	ARG	1098	-1.491	107.670	42.146	1.00	0.00	N
ATOM	10417	HN	ARG	1098	-0.484	107.821	42.203	1.00	0.00	H
ATOM	10418	CA	ARG	1098	-1.940	106.370	41.728	1.00	0.00	C
ATOM	10419	CB	ARG	1098	-0.799	105.357	41.890	1.00	0.00	C
ATOM	10420	CG	ARG	1098	-1.123	103.912	41.525	1.00	0.00	C
ATOM	10421	CD	ARG	1098	-0.162	102.919	42.190	1.00	0.00	C
ATOM	10422	NE	ARG	1098	1.212	103.499	42.117	1.00	0.00	N
ATOM	10423	HE	ARG	1098	1.330	104.512	42.125	1.00	0.00	H
ATOM	10424	CZ	ARG	1098	2.313	102.695	42.040	1.00	0.00	C
ATOM	10425	NH1	ARG	1098	2.171	101.346	41.892	1.00	0.00	N
ATOM	10426	1HH1	ARG	1098	2.993	100.745	41.834	1.00	0.00	H
ATOM	10427	2HH1	ARG	1098	1.238	100.934	41.867	1.00	0.00	H
ATOM	10428	NH2	ARG	1098	3.562	103.246	42.074	1.00	0.00	N
ATOM	10429	1HH2	ARG	1098	4.384	102.645	42.016	1.00	0.00	H
ATOM	10430	2HH2	ARG	1098	3.668	104.254	42.185	1.00	0.00	H
ATOM	10431	C	ARG	1098	-2.992	105.963	42.702	1.00	0.00	C

ATOM	10432	O	ARG	1098	-4.101	105.605	42.307	1.00	0.00	O
ATOM	10433	N	ALA	1099	-2.691	106.114	44.006	1.00	0.00	N
ATOM	10434	HN	ALA	1099	-1.783	106.491	44.279	1.00	0.00	H
ATOM	10435	CA	ALA	1099	-3.644	105.746	45.010	1.00	0.00	C
ATOM	10436	CB	ALA	1099	-3.063	105.861	46.431	1.00	0.00	C
ATOM	10437	C	ALA	1099	-4.881	106.596	44.978	1.00	0.00	C
ATOM	10438	O	ALA	1099	-5.977	106.098	44.751	1.00	0.00	O
ATOM	10439	N	LEU	1100	-4.747	107.925	45.083	1.00	0.00	N
ATOM	10440	HN	LEU	1100	-3.819	108.346	45.110	1.00	0.00	H
ATOM	10441	CA	LEU	1100	-5.920	108.754	45.157	1.00	0.00	C
ATOM	10442	CB	LEU	1100	-5.607	110.231	45.485	1.00	0.00	C
ATOM	10443	CG	LEU	1100	-4.839	111.025	44.415	1.00	0.00	C
ATOM	10444	CD1	LEU	1100	-5.738	111.334	43.209	1.00	0.00	C
ATOM	10445	CD2	LEU	1100	-4.191	112.285	45.014	1.00	0.00	C
ATOM	10446	C	LEU	1100	-6.680	108.626	43.863	1.00	0.00	C
ATOM	10447	O	LEU	1100	-7.816	109.078	43.740	1.00	0.00	O
ATOM	10448	N	VAL	1101	-6.011	108.128	42.812	1.00	0.00	N
ATOM	10449	HN	VAL	1101	-5.022	107.909	42.928	1.00	0.00	H
ATOM	10450	CA	VAL	1101	-6.617	107.887	41.530	1.00	0.00	C
ATOM	10451	CB	VAL	1101	-5.647	107.423	40.482	1.00	0.00	C
ATOM	10452	CG1	VAL	1101	-6.435	107.075	39.208	1.00	0.00	C
ATOM	10453	CG2	VAL	1101	-4.583	108.506	40.265	1.00	0.00	C
ATOM	10454	C	VAL	1101	-7.600	106.772	41.684	1.00	0.00	C
ATOM	10455	O	VAL	1101	-8.676	106.789	41.091	1.00	0.00	O
ATOM	10456	N	ARG	1102	-7.215	105.763	42.488	1.00	0.00	N
ATOM	10457	HN	ARG	1102	-6.296	105.848	42.923	1.00	0.00	H
ATOM	10458	CA	ARG	1102	-7.967	104.578	42.796	1.00	0.00	C
ATOM	10459	CB	ARG	1102	-7.207	103.568	43.680	1.00	0.00	C
ATOM	10460	CG	ARG	1102	-5.963	102.939	43.043	1.00	0.00	C
ATOM	10461	CD	ARG	1102	-5.343	101.837	43.911	1.00	0.00	C
ATOM	10462	NE	ARG	1102	-4.017	101.460	43.342	1.00	0.00	N
ATOM	10463	HE	ARG	1102	-3.199	102.031	43.557	1.00	0.00	H
ATOM	10464	CZ	ARG	1102	-3.877	100.365	42.538	1.00	0.00	C
ATOM	10465	NH1	ARG	1102	-4.967	99.644	42.148	1.00	0.00	N
ATOM	10466	1HH1	ARG	1102	-5.898	99.936	42.446	1.00	0.00	H
ATOM	10467	2HH1	ARG	1102	-4.862	98.826	41.548	1.00	0.00	H
ATOM	10468	NH2	ARG	1102	-2.632	99.975	42.139	1.00	0.00	N
ATOM	10469	1HH2	ARG	1102	-1.817	100.514	42.431	1.00	0.00	H
ATOM	10470	2HH2	ARG	1102	-2.527	99.157	41.539	1.00	0.00	H
ATOM	10471	C	ARG	1102	-9.176	104.986	43.577	1.00	0.00	C
ATOM	10472	O	ARG	1102	-10.180	104.275	43.608	1.00	0.00	O
ATOM	10473	N	GLN	1103	-9.109	106.152	44.245	1.00	0.00	N
ATOM	10474	HN	GLN	1103	-8.288	106.746	44.132	1.00	0.00	H
ATOM	10475	CA	GLN	1103	-10.171	106.576	45.114	1.00	0.00	C
ATOM	10476	CB	GLN	1103	-11.484	106.867	44.360	1.00	0.00	C
ATOM	10477	CG	GLN	1103	-11.363	107.886	43.221	1.00	0.00	C
ATOM	10478	CD	GLN	1103	-11.066	109.263	43.798	1.00	0.00	C
ATOM	10479	OE1	GLN	1103	-10.724	109.401	44.971	1.00	0.00	O
ATOM	10480	NE2	GLN	1103	-11.190	110.312	42.940	1.00	0.00	N
ATOM	10481	1HE2	GLN	1103	-10.991	111.235	43.327	1.00	0.00	H
ATOM	10482	2HE2	GLN	1103	-11.474	110.198	41.967	1.00	0.00	H
ATOM	10483	C	GLN	1103	-10.472	105.489	46.125	1.00	0.00	C
ATOM	10484	O	GLN	1103	-11.560	104.914	46.082	1.00	0.00	O
ATOM	10485	N	PRO	1104	-9.562	105.163	47.032	1.00	0.00	N
ATOM	10486	CA	PRO	1104	-9.811	104.138	48.017	1.00	0.00	C
ATOM	10487	CD	PRO	1104	-8.129	105.293	46.787	1.00	0.00	C
ATOM	10488	CB	PRO	1104	-8.451	103.709	48.562	1.00	0.00	C
ATOM	10489	CG	PRO	1104	-7.466	104.083	47.452	1.00	0.00	C
ATOM	10490	C	PRO	1104	-10.674	104.660	49.120	1.00	0.00	C
ATOM	10491	O	PRO	1104	-11.247	105.735	48.966	1.00	0.00	O
ATOM	10492	N	HIS	1105	-11.007	103.792	50.092	1.00	0.00	N
ATOM	10493	HN	HIS	1105	-10.818	102.804	49.921	1.00	0.00	H
ATOM	10494	CA	HIS	1105	-11.606	104.139	51.349	1.00	0.00	C
ATOM	10495	ND1	HIS	1105	-13.818	103.096	49.325	1.00	0.00	N
ATOM	10496	HD1	HIS	1105	-13.068	102.551	48.900	1.00	0.00	H
ATOM	10497	CG	HIS	1105	-13.888	103.514	50.635	1.00	0.00	C
ATOM	10498	CB	HIS	1105	-12.818	103.252	51.653	1.00	0.00	C
ATOM	10499	NE2	HIS	1105	-15.722	104.227	49.529	1.00	0.00	N
ATOM	10500	HE2	HIS	1105	-16.616	104.669	49.316	1.00	0.00	H
ATOM	10501	CD2	HIS	1105	-15.057	104.203	50.742	1.00	0.00	C
ATOM	10502	CE1	HIS	1105	-14.939	103.549	48.709	1.00	0.00	C
ATOM	10503	C	HIS	1105	-10.622	104.106	52.490	1.00	0.00	C
ATOM	10504	O	HIS	1105	-10.775	104.791	53.500	1.00	0.00	O
ATOM	10505	N	ILE	1106	-9.599	103.237	52.381	1.00	0.00	N

ATOM	10506	HN	ILE	1106	-9.500	102.699	51.520	1.00	0.00	H
ATOM	10507	CA	ILE	1106	-8.643	103.042	53.435	1.00	0.00	C
ATOM	10508	CB	ILE	1106	-8.561	101.635	53.938	1.00	0.00	C
ATOM	10509	CG1	ILE	1106	-7.600	101.584	55.136	1.00	0.00	C
ATOM	10510	CG2	ILE	1106	-8.169	100.718	52.769	1.00	0.00	C
ATOM	10511	CD1	ILE	1106	-7.433	100.201	55.745	1.00	0.00	C
ATOM	10512	C	ILE	1106	-7.298	103.355	52.857	1.00	0.00	C
ATOM	10513	O	ILE	1106	-7.161	103.411	51.637	1.00	0.00	O
ATOM	10514	N	LEU	1107	-6.285	103.637	53.712	1.00	0.00	N
ATOM	10515	HN	LEU	1107	-6.451	103.644	54.718	1.00	0.00	H
ATOM	10516	CA	LEU	1107	-4.971	103.927	53.192	1.00	0.00	C
ATOM	10517	CB	LEU	1107	-4.613	105.423	53.197	1.00	0.00	C
ATOM	10518	CG	LEU	1107	-5.508	106.310	52.316	1.00	0.00	C
ATOM	10519	CD1	LEU	1107	-5.040	107.774	52.366	1.00	0.00	C
ATOM	10520	CD2	LEU	1107	-5.610	105.767	50.882	1.00	0.00	C
ATOM	10521	C	LEU	1107	-3.918	103.268	54.035	1.00	0.00	C
ATOM	10522	O	LEU	1107	-4.011	103.205	55.257	1.00	0.00	O
ATOM	10523	N	LEU	1108	-2.861	102.755	53.384	1.00	0.00	N
ATOM	10524	HN	LEU	1108	-2.842	102.797	52.365	1.00	0.00	H
ATOM	10525	CA	LEU	1108	-1.764	102.153	54.070	1.00	0.00	C
ATOM	10526	CB	LEU	1108	-1.493	100.738	53.527	1.00	0.00	C
ATOM	10527	CG	LEU	1108	-2.741	99.830	53.633	1.00	0.00	C
ATOM	10528	CD1	LEU	1108	-2.475	98.419	53.088	1.00	0.00	C
ATOM	10529	CD2	LEU	1108	-3.298	99.802	55.066	1.00	0.00	C
ATOM	10530	C	LEU	1108	-0.575	103.022	53.785	1.00	0.00	C
ATOM	10531	O	LEU	1108	0.075	102.879	52.749	1.00	0.00	O
ATOM	10532	N	LEU	1109	-0.259	103.962	54.704	1.00	0.00	N
ATOM	10533	HN	LEU	1109	-0.817	104.069	55.551	1.00	0.00	H
ATOM	10534	CA	LEU	1109	0.876	104.806	54.466	1.00	0.00	C
ATOM	10535	CB	LEU	1109	0.700	106.262	54.936	1.00	0.00	C
ATOM	10536	CG	LEU	1109	-0.602	106.931	54.446	1.00	0.00	C
ATOM	10537	CD1	LEU	1109	-0.822	106.732	52.938	1.00	0.00	C
ATOM	10538	CD2	LEU	1109	-1.806	106.526	55.307	1.00	0.00	C
ATOM	10539	C	LEU	1109	1.994	104.212	55.261	1.00	0.00	C
ATOM	10540	O	LEU	1109	2.156	104.510	56.444	1.00	0.00	O
ATOM	10541	N	ASP	1110	2.815	103.377	54.597	1.00	0.00	N
ATOM	10542	HN	ASP	1110	2.685	103.267	53.591	1.00	0.00	H
ATOM	10543	CA	ASP	1110	3.863	102.634	55.234	1.00	0.00	C
ATOM	10544	CB	ASP	1110	4.186	101.331	54.476	1.00	0.00	C
ATOM	10545	CG	ASP	1110	5.156	100.462	55.273	1.00	0.00	C
ATOM	10546	OD1	ASP	1110	6.166	100.990	55.811	1.00	0.00	O
ATOM	10547	OD2	ASP	1110	4.886	99.234	55.347	1.00	0.00	O
ATOM	10548	C	ASP	1110	5.107	103.453	55.274	1.00	0.00	C
ATOM	10549	O	ASP	1110	5.971	103.289	54.411	1.00	0.00	O
ATOM	10550	N	GLU	1111	5.206	104.346	56.287	1.00	0.00	N
ATOM	10551	HN	GLU	1111	4.407	104.452	56.912	1.00	0.00	H
ATOM	10552	CA	GLU	1111	6.369	105.154	56.536	1.00	0.00	C
ATOM	10553	CB	GLU	1111	7.555	104.347	57.086	1.00	0.00	C
ATOM	10554	CG	GLU	1111	7.321	103.782	58.486	1.00	0.00	C
ATOM	10555	CD	GLU	1111	8.557	102.982	58.869	1.00	0.00	C
ATOM	10556	OE1	GLU	1111	8.920	102.054	58.099	1.00	0.00	O
ATOM	10557	OE2	GLU	1111	9.156	103.288	59.934	1.00	0.00	O
ATOM	10558	C	GLU	1111	6.806	105.732	55.242	1.00	0.00	C
ATOM	10559	O	GLU	1111	8.012	105.817	55.008	1.00	0.00	O
ATOM	10560	N	ALA	1112	5.841	106.201	54.417	1.00	0.00	N
ATOM	10561	HN	ALA	1112	4.888	106.316	54.761	1.00	0.00	H
ATOM	10562	CA	ALA	1112	6.158	106.536	53.059	1.00	0.00	C
ATOM	10563	CB	ALA	1112	4.975	107.172	52.309	1.00	0.00	C
ATOM	10564	C	ALA	1112	7.296	107.504	53.017	1.00	0.00	C
ATOM	10565	O	ALA	1112	8.358	107.154	52.509	1.00	0.00	O
ATOM	10566	N	THR	1113	7.186	108.668	53.679	1.00	0.00	N
ATOM	10567	HN	THR	1113	6.349	108.892	54.218	1.00	0.00	H
ATOM	10568	CA	THR	1113	8.288	109.586	53.601	1.00	0.00	C
ATOM	10569	CB	THR	1113	7.860	111.009	53.814	1.00	0.00	C
ATOM	10570	OG1	THR	1113	6.841	111.352	52.889	1.00	0.00	O
ATOM	10571	HG1	THR	1113	6.570	112.253	53.024	1.00	0.00	H
ATOM	10572	CG2	THR	1113	9.066	111.934	53.605	1.00	0.00	C
ATOM	10573	C	THR	1113	9.204	109.244	54.736	1.00	0.00	C
ATOM	10574	O	THR	1113	9.101	109.807	55.825	1.00	0.00	O
ATOM	10575	N	SER	1114	10.038	108.205	54.541	1.00	0.00	N
ATOM	10576	HN	SER	1114	9.951	107.661	53.683	1.00	0.00	H
ATOM	10577	CA	SER	1114	11.043	107.834	55.493	1.00	0.00	C
ATOM	10578	CB	SER	1114	11.204	106.310	55.623	1.00	0.00	C
ATOM	10579	OG	SER	1114	12.124	106.002	56.658	1.00	0.00	O

ATOM	10580	HG	SER	1114	12.223	105.061	56.738	1.00	0.00	H
ATOM	10581	C	SER	1114	12.359	108.427	55.098	1.00	0.00	C
ATOM	10582	O	SER	1114	13.287	108.464	55.899	1.00	0.00	O
ATOM	10583	N	ALA	1115	12.508	108.824	53.819	1.00	0.00	N
ATOM	10584	HN	ALA	1115	11.746	108.687	53.155	1.00	0.00	H
ATOM	10585	CA	ALA	1115	13.731	109.439	53.383	1.00	0.00	C
ATOM	10586	CB	ALA	1115	14.651	108.489	52.597	1.00	0.00	C
ATOM	10587	C	ALA	1115	13.327	110.530	52.448	1.00	0.00	C
ATOM	10588	O	ALA	1115	12.700	110.268	51.421	1.00	0.00	O
ATOM	10589	N	LEU	1116	13.691	111.789	52.769	1.00	0.00	N
ATOM	10590	HN	LEU	1116	14.267	111.980	53.589	1.00	0.00	H
ATOM	10591	CA	LEU	1116	13.240	112.847	51.918	1.00	0.00	C
ATOM	10592	CB	LEU	1116	11.704	112.917	51.892	1.00	0.00	C
ATOM	10593	CG	LEU	1116	11.100	113.778	50.776	1.00	0.00	C
ATOM	10594	CD1	LEU	1116	11.551	113.274	49.393	1.00	0.00	C
ATOM	10595	CD2	LEU	1116	9.567	113.803	50.908	1.00	0.00	C
ATOM	10596	C	LEU	1116	13.810	114.139	52.445	1.00	0.00	C
ATOM	10597	O	LEU	1116	14.765	114.122	53.223	1.00	0.00	O
ATOM	10598	N	ASP	1117	13.253	115.293	51.995	1.00	0.00	N
ATOM	10599	HN	ASP	1117	12.461	115.231	51.355	1.00	0.00	H
ATOM	10600	CA	ASP	1117	13.724	116.603	52.376	1.00	0.00	C
ATOM	10601	CB	ASP	1117	14.261	117.424	51.201	1.00	0.00	C
ATOM	10602	CG	ASP	1117	15.458	116.719	50.604	1.00	0.00	C
ATOM	10603	OD1	ASP	1117	16.277	116.148	51.374	1.00	0.00	O
ATOM	10604	OD2	ASP	1117	15.555	116.736	49.350	1.00	0.00	O
ATOM	10605	C	ASP	1117	12.576	117.429	52.879	1.00	0.00	C
ATOM	10606	O	ASP	1117	11.454	116.949	53.012	1.00	0.00	O
ATOM	10607	N	THR	1118	12.856	118.731	53.127	1.00	0.00	N
ATOM	10608	HN	THR	1118	13.773	119.080	52.849	1.00	0.00	H
ATOM	10609	CA	THR	1118	11.949	119.656	53.755	1.00	0.00	C
ATOM	10610	CB	THR	1118	12.542	121.023	53.890	1.00	0.00	C
ATOM	10611	OG1	THR	1118	13.741	120.966	54.643	1.00	0.00	O
ATOM	10612	HG1	THR	1118	14.375	120.409	54.207	1.00	0.00	H
ATOM	10613	CG2	THR	1118	11.517	121.923	54.594	1.00	0.00	C
ATOM	10614	C	THR	1118	10.644	119.864	53.034	1.00	0.00	C
ATOM	10615	O	THR	1118	9.589	119.557	53.583	1.00	0.00	O
ATOM	10616	N	GLU	1119	10.672	120.393	51.793	1.00	0.00	N
ATOM	10617	HN	GLU	1119	11.576	120.561	51.352	1.00	0.00	H
ATOM	10618	CA	GLU	1119	9.471	120.731	51.064	1.00	0.00	C
ATOM	10619	CB	GLU	1119	9.752	121.590	49.817	1.00	0.00	C
ATOM	10620	CG	GLU	1119	8.493	122.201	49.194	1.00	0.00	C
ATOM	10621	CD	GLU	1119	8.044	123.363	50.072	1.00	0.00	C
ATOM	10622	OE1	GLU	1119	7.838	123.135	51.294	1.00	0.00	O
ATOM	10623	OE2	GLU	1119	7.906	124.494	49.535	1.00	0.00	O
ATOM	10624	C	GLU	1119	8.793	119.487	50.618	1.00	0.00	C
ATOM	10625	O	GLU	1119	7.573	119.425	50.469	1.00	0.00	O
ATOM	10626	N	SER	1120	9.599	118.468	50.312	1.00	0.00	N
ATOM	10627	HN	SER	1120	10.610	118.565	50.407	1.00	0.00	H
ATOM	10628	CA	SER	1120	9.036	117.246	49.853	1.00	0.00	C
ATOM	10629	CB	SER	1120	10.132	116.268	49.416	1.00	0.00	C
ATOM	10630	OG	SER	1120	10.946	116.873	48.422	1.00	0.00	O
ATOM	10631	HG	SER	1120	11.625	116.267	48.151	1.00	0.00	H
ATOM	10632	C	SER	1120	8.281	116.658	50.991	1.00	0.00	C
ATOM	10633	O	SER	1120	7.098	116.343	50.874	1.00	0.00	O
ATOM	10634	N	GLU	1121	8.941	116.551	52.156	1.00	0.00	N
ATOM	10635	HN	GLU	1121	9.888	116.917	52.255	1.00	0.00	H
ATOM	10636	CA	GLU	1121	8.285	115.913	53.252	1.00	0.00	C
ATOM	10637	CB	GLU	1121	9.165	115.832	54.508	1.00	0.00	C
ATOM	10638	CG	GLU	1121	9.620	117.193	55.030	1.00	0.00	C
ATOM	10639	CD	GLU	1121	10.567	116.947	56.190	1.00	0.00	C
ATOM	10640	OE1	GLU	1121	10.506	115.834	56.778	1.00	0.00	O
ATOM	10641	OE2	GLU	1121	11.368	117.869	56.500	1.00	0.00	O
ATOM	10642	C	GLU	1121	7.057	116.690	53.591	1.00	0.00	C
ATOM	10643	O	GLU	1121	5.958	116.143	53.598	1.00	0.00	O
ATOM	10644	N	LYS	1122	7.207	118.010	53.790	1.00	0.00	N
ATOM	10645	HN	LYS	1122	8.120	118.436	53.629	1.00	0.00	H
ATOM	10646	CA	LYS	1122	6.121	118.835	54.222	1.00	0.00	C
ATOM	10647	CB	LYS	1122	6.592	120.290	54.429	1.00	0.00	C
ATOM	10648	CG	LYS	1122	5.533	121.294	54.895	1.00	0.00	C
ATOM	10649	CD	LYS	1122	4.491	121.653	53.833	1.00	0.00	C
ATOM	10650	CE	LYS	1122	3.110	121.050	54.082	1.00	0.00	C
ATOM	10651	NZ	LYS	1122	2.197	121.428	52.980	1.00	0.00	N
ATOM	10652	HZ1	LYS	1122	1.275	121.025	53.146	1.00	0.00	H
ATOM	10653	HZ2	LYS	1122	2.570	121.171	52.066	1.00	0.00	H



ATOM	10654	HZ3	LYS	1122	2.157	122.438	52.843	1.00	0.00	H
ATOM	10655	C	LYS	1122	5.004	118.808	53.225	1.00	0.00	C
ATOM	10656	O	LYS	1122	3.877	118.461	53.571	1.00	0.00	O
ATOM	10657	N	VAL	1123	5.294	119.076	51.940	1.00	0.00	N
ATOM	10658	HN	VAL	1123	6.264	119.201	51.651	1.00	0.00	H
ATOM	10659	CA	VAL	1123	4.237	119.186	50.975	1.00	0.00	C
ATOM	10660	CB	VAL	1123	4.732	119.493	49.588	1.00	0.00	C
ATOM	10661	CG1	VAL	1123	5.524	118.289	49.046	1.00	0.00	C
ATOM	10662	CG2	VAL	1123	3.523	119.883	48.723	1.00	0.00	C
ATOM	10663	C	VAL	1123	3.481	117.895	50.923	1.00	0.00	C
ATOM	10664	O	VAL	1123	2.256	117.889	50.812	1.00	0.00	O
ATOM	10665	N	VAL	1124	4.204	116.765	51.018	1.00	0.00	N
ATOM	10666	HN	VAL	1124	5.213	116.844	51.146	1.00	0.00	H
ATOM	10667	CA	VAL	1124	3.625	115.454	50.948	1.00	0.00	C
ATOM	10668	CB	VAL	1124	4.653	114.358	50.964	1.00	0.00	C
ATOM	10669	CG1	VAL	1124	3.932	113.006	51.105	1.00	0.00	C
ATOM	10670	CG2	VAL	1124	5.498	114.466	49.682	1.00	0.00	C
ATOM	10671	C	VAL	1124	2.712	115.235	52.110	1.00	0.00	C
ATOM	10672	O	VAL	1124	1.677	114.587	51.973	1.00	0.00	O
ATOM	10673	N	GLN	1125	3.080	115.756	53.292	1.00	0.00	N
ATOM	10674	HN	GLN	1125	3.951	116.284	53.350	1.00	0.00	H
ATOM	10675	CA	GLN	1125	2.287	115.592	54.472	1.00	0.00	C
ATOM	10676	CB	GLN	1125	2.928	116.260	55.699	1.00	0.00	C
ATOM	10677	CG	GLN	1125	2.293	115.841	57.023	1.00	0.00	C
ATOM	10678	CD	GLN	1125	2.749	114.416	57.308	1.00	0.00	C
ATOM	10679	OE1	GLN	1125	2.647	113.536	56.454	1.00	0.00	O
ATOM	10680	NE2	GLN	1125	3.279	114.182	58.539	1.00	0.00	N
ATOM	10681	1HE2	GLN	1125	3.364	114.911	59.247	1.00	0.00	H
ATOM	10682	2HE2	GLN	1125	3.584	113.228	58.730	1.00	0.00	H
ATOM	10683	C	GLN	1125	0.993	116.271	54.191	1.00	0.00	C
ATOM	10684	O	GLN	1125	-0.055	115.857	54.684	1.00	0.00	O
ATOM	10685	N	GLU	1126	1.059	117.374	53.422	1.00	0.00	N
ATOM	10686	HN	GLU	1126	1.973	117.704	53.112	1.00	0.00	H
ATOM	10687	CA	GLU	1126	-0.108	118.099	53.025	1.00	0.00	C
ATOM	10688	CB	GLU	1126	0.228	119.405	52.283	1.00	0.00	C
ATOM	10689	CG	GLU	1126	-0.995	120.216	51.847	1.00	0.00	C
ATOM	10690	CD	GLU	1126	-1.310	119.874	50.398	1.00	0.00	C
ATOM	10691	OE1	GLU	1126	-0.343	119.611	49.635	1.00	0.00	O
ATOM	10692	OE2	GLU	1126	-2.516	119.877	50.034	1.00	0.00	O
ATOM	10693	C	GLU	1126	-0.903	117.231	52.104	1.00	0.00	C
ATOM	10694	O	GLU	1126	-2.128	117.174	52.201	1.00	0.00	O
ATOM	10695	N	ALA	1127	-0.226	116.536	51.168	1.00	0.00	N
ATOM	10696	HN	ALA	1127	0.791	116.595	51.110	1.00	0.00	H
ATOM	10697	CA	ALA	1127	-0.964	115.713	50.256	1.00	0.00	C
ATOM	10698	CB	ALA	1127	-0.068	115.048	49.199	1.00	0.00	C
ATOM	10699	C	ALA	1127	-1.626	114.622	51.032	1.00	0.00	C
ATOM	10700	O	ALA	1127	-2.847	114.513	51.042	1.00	0.00	O
ATOM	10701	N	LEU	1128	-0.839	113.878	51.826	1.00	0.00	N
ATOM	10702	HN	LEU	1128	0.151	114.113	51.890	1.00	0.00	H
ATOM	10703	CA	LEU	1128	-1.331	112.767	52.588	1.00	0.00	C
ATOM	10704	CB	LEU	1128	-0.202	112.148	53.446	1.00	0.00	C
ATOM	10705	CG	LEU	1128	-0.538	110.885	54.271	1.00	0.00	C
ATOM	10706	CD1	LEU	1128	0.711	110.392	55.017	1.00	0.00	C
ATOM	10707	CD2	LEU	1128	-1.703	111.094	55.248	1.00	0.00	C
ATOM	10708	C	LEU	1128	-2.402	113.331	53.468	1.00	0.00	C
ATOM	10709	O	LEU	1128	-3.388	112.661	53.776	1.00	0.00	O
ATOM	10710	N	ASP	1129	-2.224	114.594	53.897	1.00	0.00	N
ATOM	10711	HN	ASP	1129	-1.401	115.118	53.601	1.00	0.00	H
ATOM	10712	CA	ASP	1129	-3.183	115.207	54.767	1.00	0.00	C
ATOM	10713	CB	ASP	1129	-2.764	116.626	55.188	1.00	0.00	C
ATOM	10714	CG	ASP	1129	-3.620	117.045	56.376	1.00	0.00	C
ATOM	10715	OD1	ASP	1129	-4.872	116.933	56.288	1.00	0.00	O
ATOM	10716	OD2	ASP	1129	-3.026	117.488	57.393	1.00	0.00	O
ATOM	10717	C	ASP	1129	-4.536	115.303	54.111	1.00	0.00	C
ATOM	10718	O	ASP	1129	-5.496	114.680	54.560	1.00	0.00	O
ATOM	10719	N	LYS	1130	-4.637	116.032	52.984	1.00	0.00	N
ATOM	10720	HN	LYS	1130	-3.792	116.448	52.593	1.00	0.00	H
ATOM	10721	CA	LYS	1130	-5.890	116.249	52.308	1.00	0.00	C
ATOM	10722	CB	LYS	1130	-5.759	117.189	51.101	1.00	0.00	C
ATOM	10723	CG	LYS	1130	-5.277	118.580	51.504	1.00	0.00	C
ATOM	10724	CD	LYS	1130	-6.203	119.273	52.503	1.00	0.00	C
ATOM	10725	CE	LYS	1130	-5.542	120.449	53.222	1.00	0.00	C
ATOM	10726	NZ	LYS	1130	-4.509	119.945	54.156	1.00	0.00	N
ATOM	10727	HZ1	LYS	1130	-4.068	120.730	54.636	1.00	0.00	H

ATOM	10728	HZ2	LYS	1130	-3.827	119.348	53.689	1.00	0.00	H
ATOM	10729	HZ3	LYS	1130	-4.884	119.257	54.809	1.00	0.00	H
ATOM	10730	C	LYS	1130	-6.337	114.931	51.797	1.00	0.00	C
ATOM	10731	O	LYS	1130	-7.520	114.685	51.576	1.00	0.00	O
ATOM	10732	N	ALA	1131	-5.354	114.061	51.550	1.00	0.00	N
ATOM	10733	HN	ALA	1131	-4.393	114.347	51.737	1.00	0.00	H
ATOM	10734	CA	ALA	1131	-5.586	112.754	51.038	1.00	0.00	C
ATOM	10735	CB	ALA	1131	-4.287	111.958	50.820	1.00	0.00	C
ATOM	10736	C	ALA	1131	-6.415	112.018	52.039	1.00	0.00	C
ATOM	10737	O	ALA	1131	-7.282	111.239	51.658	1.00	0.00	O
ATOM	10738	N	ARG	1132	-6.159	112.238	53.346	1.00	0.00	N
ATOM	10739	HN	ARG	1132	-5.441	112.917	53.601	1.00	0.00	H
ATOM	10740	CA	ARG	1132	-6.865	111.547	54.391	1.00	0.00	C
ATOM	10741	CB	ARG	1132	-6.004	111.298	55.644	1.00	0.00	C
ATOM	10742	CG	ARG	1132	-5.544	112.586	56.335	1.00	0.00	C
ATOM	10743	CD	ARG	1132	-4.406	112.384	57.341	1.00	0.00	C
ATOM	10744	NE	ARG	1132	-4.183	113.672	58.061	1.00	0.00	N
ATOM	10745	HE	ARG	1132	-4.928	114.367	58.105	1.00	0.00	H
ATOM	10746	CZ	ARG	1132	-2.980	113.921	58.661	1.00	0.00	C
ATOM	10747	NH1	ARG	1132	-1.956	113.029	58.532	1.00	0.00	N
ATOM	10748	1HH1	ARG	1132	-2.093	112.177	57.987	1.00	0.00	H
ATOM	10749	2HH1	ARG	1132	-1.058	113.215	58.980	1.00	0.00	H
ATOM	10750	NH2	ARG	1132	-2.797	115.061	59.390	1.00	0.00	N
ATOM	10751	1HH2	ARG	1132	-3.563	115.728	59.486	1.00	0.00	H
ATOM	10752	2HH2	ARG	1132	-1.899	115.247	59.838	1.00	0.00	H
ATOM	10753	C	ARG	1132	-8.048	112.356	54.825	1.00	0.00	C
ATOM	10754	O	ARG	1132	-8.407	113.357	54.211	1.00	0.00	O
ATOM	10755	N	GLU	1133	-8.747	111.856	55.866	1.00	0.00	N
ATOM	10756	HN	GLU	1133	-8.439	110.958	56.240	1.00	0.00	H
ATOM	10757	CA	GLU	1133	-9.886	112.470	56.498	1.00	0.00	C
ATOM	10758	CB	GLU	1133	-9.645	113.964	56.773	1.00	0.00	C
ATOM	10759	CG	GLU	1133	-10.732	114.638	57.609	1.00	0.00	C
ATOM	10760	CD	GLU	1133	-10.329	116.096	57.779	1.00	0.00	C
ATOM	10761	OE1	GLU	1133	-9.217	116.458	57.311	1.00	0.00	O
ATOM	10762	OE2	GLU	1133	-11.127	116.867	58.376	1.00	0.00	O
ATOM	10763	C	GLU	1133	-11.065	112.331	55.591	1.00	0.00	C
ATOM	10764	O	GLU	1133	-12.215	112.370	56.027	1.00	0.00	O
ATOM	10765	N	GLY	1134	-10.797	112.141	54.292	1.00	0.00	N
ATOM	10766	HN	GLY	1134	-9.832	112.237	53.976	1.00	0.00	H
ATOM	10767	CA	GLY	1134	-11.796	111.812	53.332	1.00	0.00	C
ATOM	10768	C	GLY	1134	-12.102	110.377	53.574	1.00	0.00	C
ATOM	10769	O	GLY	1134	-13.214	109.905	53.345	1.00	0.00	O
ATOM	10770	N	ARG	1135	-11.063	109.630	54.003	1.00	0.00	N
ATOM	10771	HN	ARG	1135	-10.162	110.067	54.200	1.00	0.00	H
ATOM	10772	CA	ARG	1135	-11.235	108.222	54.179	1.00	0.00	C
ATOM	10773	CB	ARG	1135	-10.974	107.441	52.884	1.00	0.00	C
ATOM	10774	CG	ARG	1135	-9.560	107.588	52.323	1.00	0.00	C
ATOM	10775	CD	ARG	1135	-9.314	108.908	51.594	1.00	0.00	C
ATOM	10776	NE	ARG	1135	-7.986	108.792	50.935	1.00	0.00	N
ATOM	10777	HE	ARG	1135	-7.140	108.916	51.491	1.00	0.00	H
ATOM	10778	CZ	ARG	1135	-7.876	108.523	49.601	1.00	0.00	C
ATOM	10779	NH1	ARG	1135	-8.986	108.403	48.814	1.00	0.00	N
ATOM	10780	1HH1	ARG	1135	-9.913	108.491	49.230	1.00	0.00	H
ATOM	10781	2HH1	ARG	1135	-8.904	108.202	47.817	1.00	0.00	H
ATOM	10782	NH2	ARG	1135	-6.636	108.405	49.045	1.00	0.00	N
ATOM	10783	1HH2	ARG	1135	-5.807	108.495	49.633	1.00	0.00	H
ATOM	10784	2HH2	ARG	1135	-6.554	108.204	48.048	1.00	0.00	H
ATOM	10785	C	ARG	1135	-10.317	107.722	55.255	1.00	0.00	C
ATOM	10786	O	ARG	1135	-9.411	108.424	55.705	1.00	0.00	O
ATOM	10787	N	THR	1136	-10.551	106.469	55.701	1.00	0.00	N
ATOM	10788	HN	THR	1136	-11.292	105.917	55.268	1.00	0.00	H
ATOM	10789	CA	THR	1136	-9.784	105.894	56.769	1.00	0.00	C
ATOM	10790	CB	THR	1136	-10.363	104.625	57.328	1.00	0.00	C
ATOM	10791	OG1	THR	1136	-9.777	104.323	58.583	1.00	0.00	O
ATOM	10792	HG1	THR	1136	-9.963	105.031	59.188	1.00	0.00	H
ATOM	10793	CG2	THR	1136	-10.062	103.482	56.351	1.00	0.00	C
ATOM	10794	C	THR	1136	-8.424	105.566	56.250	1.00	0.00	C
ATOM	10795	O	THR	1136	-8.260	105.192	55.089	1.00	0.00	O
ATOM	10796	N	CYS	1137	-7.392	105.726	57.104	1.00	0.00	N
ATOM	10797	HN	CYS	1137	-7.543	106.067	58.053	1.00	0.00	H
ATOM	10798	CA	CYS	1137	-6.079	105.402	56.636	1.00	0.00	C
ATOM	10799	CB	CYS	1137	-5.439	106.527	55.803	1.00	0.00	C
ATOM	10800	SG	CYS	1137	-5.308	108.098	56.706	1.00	0.00	S
ATOM	10801	C	CYS	1137	-5.182	105.106	57.797	1.00	0.00	C

ATOM	10802	O	CYS	1137	-5.102	105.857	58.769	1.00	0.00	O
ATOM	10803	N	ILE	1138	-4.448	103.985	57.707	1.00	0.00	N
ATOM	10804	HN	ILE	1138	-4.531	103.377	56.892	1.00	0.00	H
ATOM	10805	CA	ILE	1138	-3.551	103.656	58.766	1.00	0.00	C
ATOM	10806	CB	ILE	1138	-3.429	102.178	59.004	1.00	0.00	C
ATOM	10807	CG1	ILE	1138	-4.818	101.586	59.308	1.00	0.00	C
ATOM	10808	CG2	ILE	1138	-2.420	101.958	60.146	1.00	0.00	C
ATOM	10809	CD1	ILE	1138	-4.868	100.059	59.275	1.00	0.00	C
ATOM	10810	C	ILE	1138	-2.233	104.189	58.339	1.00	0.00	C
ATOM	10811	O	ILE	1138	-1.543	103.626	57.487	1.00	0.00	O
ATOM	10812	N	VAL	1139	-1.887	105.349	58.917	1.00	0.00	N
ATOM	10813	HN	VAL	1139	-2.539	105.800	59.558	1.00	0.00	H
ATOM	10814	CA	VAL	1139	-0.632	105.964	58.656	1.00	0.00	C
ATOM	10815	CB	VAL	1139	-0.670	107.444	58.877	1.00	0.00	C
ATOM	10816	CG1	VAL	1139	0.750	108.006	58.764	1.00	0.00	C
ATOM	10817	CG2	VAL	1139	-1.661	108.051	57.878	1.00	0.00	C
ATOM	10818	C	VAL	1139	0.262	105.388	59.691	1.00	0.00	C
ATOM	10819	O	VAL	1139	0.066	105.619	60.885	1.00	0.00	O
ATOM	10820	N	ILE	1140	1.258	104.591	59.271	1.00	0.00	N
ATOM	10821	HN	ILE	1140	1.406	104.374	58.285	1.00	0.00	H
ATOM	10822	CA	ILE	1140	2.096	104.069	60.305	1.00	0.00	C
ATOM	10823	CB	ILE	1140	2.200	102.570	60.398	1.00	0.00	C
ATOM	10824	CG1	ILE	1140	3.163	101.985	59.363	1.00	0.00	C
ATOM	10825	CG2	ILE	1140	0.774	102.024	60.209	1.00	0.00	C
ATOM	10826	CD1	ILE	1140	2.780	102.304	57.940	1.00	0.00	C
ATOM	10827	C	ILE	1140	3.442	104.573	59.941	1.00	0.00	C
ATOM	10828	O	ILE	1140	3.737	104.749	58.760	1.00	0.00	O
ATOM	10829	N	ALA	1141	4.288	104.876	60.939	1.00	0.00	N
ATOM	10830	HN	ALA	1141	4.042	104.740	61.920	1.00	0.00	H
ATOM	10831	CA	ALA	1141	5.552	105.400	60.539	1.00	0.00	C
ATOM	10832	CB	ALA	1141	5.461	106.826	59.971	1.00	0.00	C
ATOM	10833	C	ALA	1141	6.491	105.456	61.693	1.00	0.00	C
ATOM	10834	O	ALA	1141	6.148	105.166	62.840	1.00	0.00	O
ATOM	10835	N	HIS	1142	7.762	105.708	61.337	1.00	0.00	N
ATOM	10836	HN	HIS	1142	7.967	105.734	60.338	1.00	0.00	H
ATOM	10837	CA	HIS	1142	8.851	105.943	62.227	1.00	0.00	C
ATOM	10838	ND1	HIS	1142	11.221	104.440	63.699	1.00	0.00	N
ATOM	10839	HD1	HIS	1142	10.579	103.648	63.718	1.00	0.00	H
ATOM	10840	CG	HIS	1142	11.226	105.471	62.786	1.00	0.00	C
ATOM	10841	CB	HIS	1142	10.231	105.574	61.668	1.00	0.00	C
ATOM	10842	NE2	HIS	1142	12.888	105.791	64.277	1.00	0.00	N
ATOM	10843	HE2	HIS	1142	13.684	106.193	64.771	1.00	0.00	H
ATOM	10844	CD2	HIS	1142	12.252	106.287	63.152	1.00	0.00	C
ATOM	10845	CE1	HIS	1142	12.234	104.681	64.568	1.00	0.00	C
ATOM	10846	C	HIS	1142	8.869	107.392	62.604	1.00	0.00	C
ATOM	10847	O	HIS	1142	9.670	107.794	63.445	1.00	0.00	O
ATOM	10848	N	ARG	1143	8.084	108.239	61.901	1.00	0.00	N
ATOM	10849	HN	ARG	1143	7.481	107.874	61.164	1.00	0.00	H
ATOM	10850	CA	ARG	1143	8.092	109.650	62.183	1.00	0.00	C
ATOM	10851	CB	ARG	1143	7.318	110.474	61.142	1.00	0.00	C
ATOM	10852	CG	ARG	1143	7.945	110.451	59.750	1.00	0.00	C
ATOM	10853	CD	ARG	1143	9.125	111.409	59.606	1.00	0.00	C
ATOM	10854	NE	ARG	1143	9.616	111.297	58.205	1.00	0.00	N
ATOM	10855	HE	ARG	1143	9.710	110.383	57.763	1.00	0.00	H
ATOM	10856	CZ	ARG	1143	9.938	112.431	57.520	1.00	0.00	C
ATOM	10857	NH1	ARG	1143	9.800	113.645	58.126	1.00	0.00	N
ATOM	10858	1HH1	ARG	1143	10.041	114.493	57.614	1.00	0.00	H
ATOM	10859	2HH1	ARG	1143	9.460	113.701	59.086	1.00	0.00	H
ATOM	10860	NH2	ARG	1143	10.393	112.356	56.235	1.00	0.00	N
ATOM	10861	1HH2	ARG	1143	10.634	113.204	55.723	1.00	0.00	H
ATOM	10862	2HH2	ARG	1143	10.496	111.448	55.782	1.00	0.00	H
ATOM	10863	C	ARG	1143	7.387	109.847	63.486	1.00	0.00	C
ATOM	10864	O	ARG	1143	6.263	110.340	63.549	1.00	0.00	O
ATOM	10865	N	LEU	1144	8.105	109.563	64.580	1.00	0.00	N
ATOM	10866	HN	LEU	1144	9.086	109.314	64.457	1.00	0.00	H
ATOM	10867	CA	LEU	1144	7.581	109.588	65.907	1.00	0.00	C
ATOM	10868	CB	LEU	1144	8.675	109.302	66.944	1.00	0.00	C
ATOM	10869	CG	LEU	1144	9.495	108.035	66.634	1.00	0.00	C
ATOM	10870	CD1	LEU	1144	10.469	107.717	67.779	1.00	0.00	C
ATOM	10871	CD2	LEU	1144	8.607	106.846	66.236	1.00	0.00	C
ATOM	10872	C	LEU	1144	7.095	110.979	66.154	1.00	0.00	C
ATOM	10873	O	LEU	1144	6.172	111.193	66.938	1.00	0.00	O
ATOM	10874	N	SER	1145	7.779	111.963	65.544	1.00	0.00	N
ATOM	10875	HN	SER	1145	8.576	111.707	64.961	1.00	0.00	H

ATOM	10876	CA	SER	1145	7.448	113.356	65.669	1.00	0.00	C
ATOM	10877	CB	SER	1145	8.529	114.256	65.049	1.00	0.00	C
ATOM	10878	OG	SER	1145	8.662	113.976	63.663	1.00	0.00	O
ATOM	10879	HG	SER	1145	9.330	114.532	63.280	1.00	0.00	H
ATOM	10880	C	SER	1145	6.132	113.734	65.029	1.00	0.00	C
ATOM	10881	O	SER	1145	5.193	114.134	65.715	1.00	0.00	O
ATOM	10882	N	THR	1146	6.029	113.573	63.692	1.00	0.00	N
ATOM	10883	HN	THR	1146	6.798	113.085	63.233	1.00	0.00	H
ATOM	10884	CA	THR	1146	4.946	114.017	62.838	1.00	0.00	C
ATOM	10885	CB	THR	1146	5.260	113.896	61.375	1.00	0.00	C
ATOM	10886	OG1	THR	1146	5.428	112.533	61.017	1.00	0.00	O
ATOM	10887	HG1	THR	1146	4.632	112.046	61.197	1.00	0.00	H
ATOM	10888	CG2	THR	1146	6.548	114.684	61.084	1.00	0.00	C
ATOM	10889	C	THR	1146	3.676	113.258	63.086	1.00	0.00	C
ATOM	10890	O	THR	1146	2.607	113.641	62.613	1.00	0.00	O
ATOM	10891	N	ILE	1147	3.777	112.119	63.777	1.00	0.00	N
ATOM	10892	HN	ILE	1147	4.698	111.874	64.140	1.00	0.00	H
ATOM	10893	CA	ILE	1147	2.700	111.210	64.053	1.00	0.00	C
ATOM	10894	CB	ILE	1147	3.145	109.976	64.777	1.00	0.00	C
ATOM	10895	CG1	ILE	1147	2.014	108.938	64.762	1.00	0.00	C
ATOM	10896	CG2	ILE	1147	3.619	110.375	66.185	1.00	0.00	C
ATOM	10897	CD1	ILE	1147	2.473	107.535	65.142	1.00	0.00	C
ATOM	10898	C	ILE	1147	1.602	111.850	64.857	1.00	0.00	C
ATOM	10899	O	ILE	1147	0.463	111.385	64.835	1.00	0.00	O
ATOM	10900	N	GLN	1148	1.912	112.927	65.597	1.00	0.00	N
ATOM	10901	HN	GLN	1148	2.829	113.354	65.469	1.00	0.00	H
ATOM	10902	CA	GLN	1148	1.019	113.509	66.560	1.00	0.00	C
ATOM	10903	CB	GLN	1148	1.533	114.859	67.087	1.00	0.00	C
ATOM	10904	CG	GLN	1148	2.805	114.736	67.928	1.00	0.00	C
ATOM	10905	CD	GLN	1148	3.231	116.138	68.340	1.00	0.00	C
ATOM	10906	OE1	GLN	1148	3.904	116.839	67.587	1.00	0.00	O
ATOM	10907	NE2	GLN	1148	2.830	116.561	69.568	1.00	0.00	N
ATOM	10908	1HE2	GLN	1148	3.115	117.501	69.844	1.00	0.00	H
ATOM	10909	2HE2	GLN	1148	2.272	115.979	70.193	1.00	0.00	H
ATOM	10910	C	GLN	1148	-0.354	113.736	65.991	1.00	0.00	C
ATOM	10911	O	GLN	1148	-1.335	113.613	66.722	1.00	0.00	O
ATOM	10912	N	ASN	1149	-0.494	114.084	64.699	1.00	0.00	N
ATOM	10913	HN	ASN	1149	0.320	114.164	64.090	1.00	0.00	H
ATOM	10914	CA	ASN	1149	-1.819	114.341	64.193	1.00	0.00	C
ATOM	10915	CB	ASN	1149	-1.794	114.967	62.791	1.00	0.00	C
ATOM	10916	CG	ASN	1149	-0.768	116.086	62.726	1.00	0.00	C
ATOM	10917	OD1	ASN	1149	-0.190	116.497	63.731	1.00	0.00	O
ATOM	10918	ND2	ASN	1149	-0.522	116.582	61.484	1.00	0.00	N
ATOM	10919	1HD2	ASN	1149	-1.001	116.241	60.651	1.00	0.00	H
ATOM	10920	2HD2	ASN	1149	0.167	117.333	61.440	1.00	0.00	H
ATOM	10921	C	ASN	1149	-2.492	113.014	63.955	1.00	0.00	C
ATOM	10922	O	ASN	1149	-2.834	112.704	62.815	1.00	0.00	O
ATOM	10923	N	ALA	1150	-2.765	112.218	65.011	1.00	0.00	N
ATOM	10924	HN	ALA	1150	-2.564	112.530	65.961	1.00	0.00	H
ATOM	10925	CA	ALA	1150	-3.346	110.919	64.774	1.00	0.00	C
ATOM	10926	CB	ALA	1150	-2.410	109.758	65.150	1.00	0.00	C
ATOM	10927	C	ALA	1150	-4.596	110.764	65.586	1.00	0.00	C
ATOM	10928	O	ALA	1150	-4.710	111.316	66.679	1.00	0.00	O
ATOM	10929	N	ASP	1151	-5.605	110.052	65.029	1.00	0.00	N
ATOM	10930	HN	ASP	1151	-5.494	109.669	64.090	1.00	0.00	H
ATOM	10931	CA	ASP	1151	-6.832	109.830	65.747	1.00	0.00	C
ATOM	10932	CB	ASP	1151	-7.933	109.223	64.860	1.00	0.00	C
ATOM	10933	CG	ASP	1151	-8.291	110.246	63.790	1.00	0.00	C
ATOM	10934	OD1	ASP	1151	-7.530	111.238	63.641	1.00	0.00	O
ATOM	10935	OD2	ASP	1151	-9.328	110.045	63.104	1.00	0.00	O
ATOM	10936	C	ASP	1151	-6.613	108.879	66.887	1.00	0.00	C
ATOM	10937	O	ASP	1151	-6.814	109.222	68.052	1.00	0.00	O
ATOM	10938	N	LEU	1152	-6.150	107.653	66.570	1.00	0.00	N
ATOM	10939	HN	LEU	1152	-5.953	107.437	65.593	1.00	0.00	H
ATOM	10940	CA	LEU	1152	-5.926	106.641	67.566	1.00	0.00	C
ATOM	10941	CB	LEU	1152	-6.846	105.418	67.386	1.00	0.00	C
ATOM	10942	CG	LEU	1152	-6.590	104.280	68.392	1.00	0.00	C
ATOM	10943	CD1	LEU	1152	-6.867	104.737	69.832	1.00	0.00	C
ATOM	10944	CD2	LEU	1152	-7.365	103.007	68.009	1.00	0.00	C
ATOM	10945	C	LEU	1152	-4.533	106.156	67.363	1.00	0.00	C
ATOM	10946	O	LEU	1152	-4.247	105.480	66.377	1.00	0.00	O
ATOM	10947	N	ILE	1153	-3.634	106.454	68.317	1.00	0.00	N
ATOM	10948	HN	ILE	1153	-3.923	106.952	69.159	1.00	0.00	H
ATOM	10949	CA	ILE	1153	-2.266	106.066	68.142	1.00	0.00	C

ATOM	10950	CB	ILE	1153	-1.297	107.121	68.606	1.00	0.00	C
ATOM	10951	CG1	ILE	1153	-1.467	108.411	67.781	1.00	0.00	C
ATOM	10952	CG2	ILE	1153	0.123	106.534	68.544	1.00	0.00	C
ATOM	10953	CD1	ILE	1153	-2.793	109.134	68.022	1.00	0.00	C
ATOM	10954	C	ILE	1153	-2.038	104.838	68.960	1.00	0.00	C
ATOM	10955	O	ILE	1153	-2.130	104.866	70.187	1.00	0.00	O
ATOM	10956	N	VAL	1154	-1.732	103.713	68.282	1.00	0.00	N
ATOM	10957	HN	VAL	1154	-1.643	103.736	67.266	1.00	0.00	H
ATOM	10958	CA	VAL	1154	-1.532	102.485	68.993	1.00	0.00	C
ATOM	10959	CB	VAL	1154	-2.252	101.313	68.391	1.00	0.00	C
ATOM	10960	CG1	VAL	1154	-1.895	100.054	69.199	1.00	0.00	C
ATOM	10961	CG2	VAL	1154	-3.758	101.624	68.358	1.00	0.00	C
ATOM	10962	C	VAL	1154	-0.079	102.161	68.975	1.00	0.00	C
ATOM	10963	O	VAL	1154	0.587	102.240	67.944	1.00	0.00	O
ATOM	10964	N	VAL	1155	0.451	101.791	70.153	1.00	0.00	N
ATOM	10965	HN	VAL	1155	-0.140	101.758	70.984	1.00	0.00	H
ATOM	10966	CA	VAL	1155	1.832	101.443	70.255	1.00	0.00	C
ATOM	10967	CB	VAL	1155	2.474	101.999	71.494	1.00	0.00	C
ATOM	10968	CG1	VAL	1155	3.944	101.550	71.544	1.00	0.00	C
ATOM	10969	CG2	VAL	1155	2.277	103.526	71.505	1.00	0.00	C
ATOM	10970	C	VAL	1155	1.872	99.962	70.350	1.00	0.00	C
ATOM	10971	O	VAL	1155	1.455	99.388	71.356	1.00	0.00	O
ATOM	10972	N	PHE	1156	2.375	99.293	69.297	1.00	0.00	N
ATOM	10973	HN	PHE	1156	2.726	99.775	68.469	1.00	0.00	H
ATOM	10974	CA	PHE	1156	2.389	97.870	69.405	1.00	0.00	C
ATOM	10975	CB	PHE	1156	1.848	97.096	68.182	1.00	0.00	C
ATOM	10976	CG	PHE	1156	2.860	97.034	67.091	1.00	0.00	C
ATOM	10977	CD1	PHE	1156	3.775	96.005	67.075	1.00	0.00	C
ATOM	10978	CD2	PHE	1156	2.892	97.971	66.085	1.00	0.00	C
ATOM	10979	CE1	PHE	1156	4.718	95.913	66.081	1.00	0.00	C
ATOM	10980	CE2	PHE	1156	3.833	97.884	65.086	1.00	0.00	C
ATOM	10981	CZ	PHE	1156	4.747	96.857	65.083	1.00	0.00	C
ATOM	10982	C	PHE	1156	3.801	97.463	69.635	1.00	0.00	C
ATOM	10983	O	PHE	1156	4.737	98.103	69.154	1.00	0.00	O
ATOM	10984	N	GLN	1157	3.995	96.394	70.426	1.00	0.00	N
ATOM	10985	HN	GLN	1157	3.206	95.898	70.841	1.00	0.00	H
ATOM	10986	CA	GLN	1157	5.335	95.974	70.668	1.00	0.00	C
ATOM	10987	CB	GLN	1157	5.655	95.878	72.171	1.00	0.00	C
ATOM	10988	CG	GLN	1157	7.148	95.847	72.503	1.00	0.00	C
ATOM	10989	CD	GLN	1157	7.742	94.568	71.945	1.00	0.00	C
ATOM	10990	OE1	GLN	1157	8.262	94.550	70.831	1.00	0.00	O
ATOM	10991	NE2	GLN	1157	7.643	93.464	72.732	1.00	0.00	N
ATOM	10992	1HE2	GLN	1157	8.043	92.604	72.357	1.00	0.00	H
ATOM	10993	2HE2	GLN	1157	7.212	93.479	73.656	1.00	0.00	H
ATOM	10994	C	GLN	1157	5.475	94.618	70.071	1.00	0.00	C
ATOM	10995	O	GLN	1157	5.236	93.624	70.757	1.00	0.00	O
ATOM	10996	N	ASN	1158	5.833	94.581	68.765	1.00	0.00	N
ATOM	10997	HN	ASN	1158	5.885	95.473	68.274	1.00	0.00	H
ATOM	10998	CA	ASN	1158	6.147	93.398	68.006	1.00	0.00	C
ATOM	10999	CB	ASN	1158	7.646	93.050	67.949	1.00	0.00	C
ATOM	11000	CG	ASN	1158	8.299	93.939	66.897	1.00	0.00	C
ATOM	11001	OD1	ASN	1158	7.780	94.099	65.793	1.00	0.00	O
ATOM	11002	ND2	ASN	1158	9.472	94.530	67.246	1.00	0.00	N
ATOM	11003	1HD2	ASN	1158	9.909	95.125	66.542	1.00	0.00	H
ATOM	11004	2HD2	ASN	1158	9.902	94.397	68.161	1.00	0.00	H
ATOM	11005	C	ASN	1158	5.390	92.192	68.468	1.00	0.00	C
ATOM	11006	O	ASN	1158	5.889	91.431	69.296	1.00	0.00	O
ATOM	11007	N	GLY	1159	4.141	92.016	67.999	1.00	0.00	N
ATOM	11008	HN	GLY	1159	3.717	92.726	67.402	1.00	0.00	H
ATOM	11009	CA	GLY	1159	3.405	90.832	68.336	1.00	0.00	C
ATOM	11010	C	GLY	1159	2.292	91.151	69.287	1.00	0.00	C
ATOM	11011	O	GLY	1159	1.246	90.505	69.234	1.00	0.00	O
ATOM	11012	N	ARG	1160	2.464	92.146	70.181	1.00	0.00	N
ATOM	11013	HN	ARG	1160	3.330	92.684	70.205	1.00	0.00	H
ATOM	11014	CA	ARG	1160	1.393	92.429	71.100	1.00	0.00	C
ATOM	11015	CB	ARG	1160	1.583	91.740	72.462	1.00	0.00	C
ATOM	11016	CG	ARG	1160	2.895	92.099	73.159	1.00	0.00	C
ATOM	11017	CD	ARG	1160	4.119	91.353	72.622	1.00	0.00	C
ATOM	11018	NE	ARG	1160	3.916	89.904	72.903	1.00	0.00	N
ATOM	11019	HE	ARG	1160	2.971	89.533	73.000	1.00	0.00	H
ATOM	11020	CZ	ARG	1160	4.990	89.072	73.031	1.00	0.00	C
ATOM	11021	NH1	ARG	1160	6.257	89.569	72.930	1.00	0.00	N
ATOM	11022	1HH1	ARG	1160	7.060	88.947	73.026	1.00	0.00	H
ATOM	11023	2HH1	ARG	1160	6.400	90.564	72.755	1.00	0.00	H

ATOM	11024	NH2	ARG	1160	4.798	87.741	73.265	1.00	0.00	N
ATOM	11025	1HH2	ARG	1160	5.601	87.119	73.361	1.00	0.00	H
ATOM	11026	2HH2	ARG	1160	3.851	87.370	73.340	1.00	0.00	H
ATOM	11027	C	ARG	1160	1.277	93.914	71.308	1.00	0.00	C
ATOM	11028	O	ARG	1160	2.285	94.612	71.411	1.00	0.00	O
ATOM	11029	N	VAL	1161	0.029	94.444	71.381	1.00	0.00	N
ATOM	11030	HN	VAL	1161	-0.796	93.848	71.323	1.00	0.00	H
ATOM	11031	CA	VAL	1161	-0.100	95.872	71.542	1.00	0.00	C
ATOM	11032	CB	VAL	1161	-1.256	96.521	70.827	1.00	0.00	C
ATOM	11033	CG1	VAL	1161	-1.082	96.312	69.315	1.00	0.00	C
ATOM	11034	CG2	VAL	1161	-2.586	96.021	71.410	1.00	0.00	C
ATOM	11035	C	VAL	1161	-0.214	96.234	72.995	1.00	0.00	C
ATOM	11036	O	VAL	1161	-1.116	95.792	73.707	1.00	0.00	O
ATOM	11037	N	LYS	1162	0.790	96.992	73.482	1.00	0.00	N
ATOM	11038	HN	LYS	1162	1.546	97.248	72.847	1.00	0.00	H
ATOM	11039	CA	LYS	1162	0.862	97.462	74.837	1.00	0.00	C
ATOM	11040	CB	LYS	1162	2.309	97.707	75.290	1.00	0.00	C
ATOM	11041	CG	LYS	1162	2.442	97.803	76.809	1.00	0.00	C
ATOM	11042	CD	LYS	1162	2.161	96.473	77.512	1.00	0.00	C
ATOM	11043	CE	LYS	1162	2.284	96.547	79.032	1.00	0.00	C
ATOM	11044	NZ	LYS	1162	3.694	96.782	79.414	1.00	0.00	N
ATOM	11045	HZ1	LYS	1162	3.776	96.831	80.429	1.00	0.00	H
ATOM	11046	HZ2	LYS	1162	4.081	97.608	78.958	1.00	0.00	H
ATOM	11047	HZ3	LYS	1162	4.320	96.084	79.013	1.00	0.00	H
ATOM	11048	C	LYS	1162	0.083	98.723	75.134	1.00	0.00	C
ATOM	11049	O	LYS	1162	-0.565	98.820	76.175	1.00	0.00	O
ATOM	11050	N	GLU	1163	0.129	99.746	74.248	1.00	0.00	N
ATOM	11051	HN	GLU	1163	0.563	99.627	73.332	1.00	0.00	H
ATOM	11052	CA	GLU	1163	-0.453	101.011	74.635	1.00	0.00	C
ATOM	11053	CB	GLU	1163	0.597	102.088	74.949	1.00	0.00	C
ATOM	11054	CG	GLU	1163	1.447	101.778	76.181	1.00	0.00	C
ATOM	11055	CD	GLU	1163	2.445	102.912	76.351	1.00	0.00	C
ATOM	11056	OE1	GLU	1163	2.316	103.926	75.614	1.00	0.00	O
ATOM	11057	OE2	GLU	1163	3.352	102.778	77.216	1.00	0.00	O
ATOM	11058	C	GLU	1163	-1.282	101.554	73.517	1.00	0.00	C
ATOM	11059	O	GLU	1163	-1.295	101.004	72.418	1.00	0.00	O
ATOM	11060	N	HIS	1164	-2.044	102.638	73.797	1.00	0.00	N
ATOM	11061	HN	HIS	1164	-2.068	103.015	74.744	1.00	0.00	H
ATOM	11062	CA	HIS	1164	-2.818	103.255	72.756	1.00	0.00	C
ATOM	11063	ND1	HIS	1164	-6.213	103.006	72.804	1.00	0.00	N
ATOM	11064	HD1	HIS	1164	-6.350	103.716	72.084	1.00	0.00	H
ATOM	11065	CG	HIS	1164	-5.095	102.222	72.981	1.00	0.00	C
ATOM	11066	CB	HIS	1164	-3.866	102.324	72.129	1.00	0.00	C
ATOM	11067	NE2	HIS	1164	-6.626	101.699	74.554	1.00	0.00	N
ATOM	11068	HE2	HIS	1164	-7.089	101.260	75.350	1.00	0.00	H
ATOM	11069	CD2	HIS	1164	-5.365	101.428	74.053	1.00	0.00	C
ATOM	11070	CE1	HIS	1164	-7.097	102.653	73.771	1.00	0.00	C
ATOM	11071	C	HIS	1164	-3.589	104.397	73.341	1.00	0.00	C
ATOM	11072	O	HIS	1164	-3.740	104.500	74.558	1.00	0.00	O
ATOM	11073	N	GLY	1165	-4.106	105.288	72.465	1.00	0.00	N
ATOM	11074	HN	GLY	1165	-3.933	105.170	71.467	1.00	0.00	H
ATOM	11075	CA	GLY	1165	-4.895	106.398	72.919	1.00	0.00	C
ATOM	11076	C	GLY	1165	-4.451	107.626	72.187	1.00	0.00	C
ATOM	11077	O	GLY	1165	-3.924	107.553	71.078	1.00	0.00	O
ATOM	11078	N	THR	1166	-4.683	108.802	72.808	1.00	0.00	N
ATOM	11079	HN	THR	1166	-5.132	108.789	73.724	1.00	0.00	H
ATOM	11080	CA	THR	1166	-4.326	110.069	72.237	1.00	0.00	C
ATOM	11081	CB	THR	1166	-5.147	111.191	72.792	1.00	0.00	C
ATOM	11082	OG1	THR	1166	-6.524	110.911	72.631	1.00	0.00	O
ATOM	11083	HG1	THR	1166	-6.728	110.116	73.110	1.00	0.00	H
ATOM	11084	CG2	THR	1166	-4.819	112.470	72.021	1.00	0.00	C
ATOM	11085	C	THR	1166	-2.900	110.344	72.614	1.00	0.00	C
ATOM	11086	O	THR	1166	-2.363	109.735	73.537	1.00	0.00	O
ATOM	11087	N	HIS	1167	-2.253	111.300	71.918	1.00	0.00	N
ATOM	11088	HN	HIS	1167	-2.766	111.849	71.229	1.00	0.00	H
ATOM	11089	CA	HIS	1167	-0.855	111.562	72.126	1.00	0.00	C
ATOM	11090	ND1	HIS	1167	1.897	113.366	72.223	1.00	0.00	N
ATOM	11091	HD1	HIS	1167	1.552	113.699	73.123	1.00	0.00	H
ATOM	11092	CG	HIS	1167	1.142	112.847	71.196	1.00	0.00	C
ATOM	11093	CB	HIS	1167	-0.351	112.701	71.223	1.00	0.00	C
ATOM	11094	NE2	HIS	1167	3.315	112.858	70.587	1.00	0.00	N
ATOM	11095	HE2	HIS	1167	4.172	112.739	70.048	1.00	0.00	H
ATOM	11096	CD2	HIS	1167	2.024	112.541	70.205	1.00	0.00	C
ATOM	11097	CE1	HIS	1167	3.189	113.350	71.807	1.00	0.00	C

ATOM	11098	C	HIS	1167	-0.574	111.962	73.545	1.00	0.00	C
ATOM	11099	O	HIS	1167	0.210	111.309	74.231	1.00	0.00	O
ATOM	11100	N	GLN	1168	-1.247	113.014	74.047	1.00	0.00	N
ATOM	11101	HN	GLN	1168	-1.968	113.464	73.483	1.00	0.00	H
ATOM	11102	CA	GLN	1168	-0.967	113.514	75.365	1.00	0.00	C
ATOM	11103	CB	GLN	1168	-1.839	114.718	75.773	1.00	0.00	C
ATOM	11104	CG	GLN	1168	-3.312	114.388	76.059	1.00	0.00	C
ATOM	11105	CD	GLN	1168	-4.082	114.181	74.763	1.00	0.00	C
ATOM	11106	OE1	GLN	1168	-3.524	114.231	73.670	1.00	0.00	O
ATOM	11107	NE2	GLN	1168	-5.416	113.947	74.891	1.00	0.00	N
ATOM	11108	1HE2	GLN	1168	-5.932	113.808	74.022	1.00	0.00	H
ATOM	11109	2HE2	GLN	1168	-5.879	113.905	75.799	1.00	0.00	H
ATOM	11110	C	GLN	1168	-1.308	112.430	76.321	1.00	0.00	C
ATOM	11111	O	GLN	1168	-0.636	112.233	77.333	1.00	0.00	O
ATOM	11112	N	GLN	1169	-2.389	111.701	76.008	1.00	0.00	N
ATOM	11113	HN	GLN	1169	-2.891	111.901	75.143	1.00	0.00	H
ATOM	11114	CA	GLN	1169	-2.853	110.652	76.856	1.00	0.00	C
ATOM	11115	CB	GLN	1169	-4.130	110.000	76.303	1.00	0.00	C
ATOM	11116	CG	GLN	1169	-4.713	108.898	77.187	1.00	0.00	C
ATOM	11117	CD	GLN	1169	-5.973	108.397	76.498	1.00	0.00	C
ATOM	11118	OE1	GLN	1169	-6.325	108.859	75.414	1.00	0.00	O
ATOM	11119	NE2	GLN	1169	-6.677	107.430	77.143	1.00	0.00	N
ATOM	11120	1HE2	GLN	1169	-6.385	107.047	78.042	1.00	0.00	H
ATOM	11121	2HE2	GLN	1169	-7.522	107.094	76.681	1.00	0.00	H
ATOM	11122	C	GLN	1169	-1.775	109.618	76.935	1.00	0.00	C
ATOM	11123	O	GLN	1169	-1.529	109.058	78.001	1.00	0.00	O
ATOM	11124	N	LEU	1170	-1.104	109.337	75.800	1.00	0.00	N
ATOM	11125	HN	LEU	1170	-1.344	109.836	74.943	1.00	0.00	H
ATOM	11126	CA	LEU	1170	-0.059	108.351	75.768	1.00	0.00	C
ATOM	11127	CB	LEU	1170	0.526	108.137	74.362	1.00	0.00	C
ATOM	11128	CG	LEU	1170	-0.447	107.525	73.337	1.00	0.00	C
ATOM	11129	CD1	LEU	1170	0.240	107.356	71.972	1.00	0.00	C
ATOM	11130	CD2	LEU	1170	-1.063	106.213	73.852	1.00	0.00	C
ATOM	11131	C	LEU	1170	1.079	108.811	76.621	1.00	0.00	C
ATOM	11132	O	LEU	1170	1.614	108.049	77.425	1.00	0.00	O
ATOM	11133	N	LEU	1171	1.467	110.091	76.472	1.00	0.00	N
ATOM	11134	HN	LEU	1171	0.971	110.689	75.811	1.00	0.00	H
ATOM	11135	CA	LEU	1171	2.560	110.632	77.221	1.00	0.00	C
ATOM	11136	CB	LEU	1171	2.836	112.106	76.879	1.00	0.00	C
ATOM	11137	CG	LEU	1171	4.004	112.717	77.670	1.00	0.00	C
ATOM	11138	CD1	LEU	1171	5.312	111.955	77.411	1.00	0.00	C
ATOM	11139	CD2	LEU	1171	4.130	114.223	77.388	1.00	0.00	C
ATOM	11140	C	LEU	1171	2.159	110.545	78.647	1.00	0.00	C
ATOM	11141	O	LEU	1171	2.978	110.258	79.516	1.00	0.00	O
ATOM	11142	N	ALA	1172	0.859	110.758	78.916	1.00	0.00	N
ATOM	11143	HN	ALA	1172	0.209	110.956	78.155	1.00	0.00	H
ATOM	11144	CA	ALA	1172	0.383	110.708	80.262	1.00	0.00	C
ATOM	11145	CB	ALA	1172	-1.142	110.883	80.362	1.00	0.00	C
ATOM	11146	C	ALA	1172	0.718	109.349	80.769	1.00	0.00	C
ATOM	11147	O	ALA	1172	1.136	109.188	81.915	1.00	0.00	O
ATOM	11148	N	GLN	1173	0.554	108.329	79.911	1.00	0.00	N
ATOM	11149	HN	GLN	1173	0.183	108.498	78.976	1.00	0.00	H
ATOM	11150	CA	GLN	1173	0.903	107.007	80.319	1.00	0.00	C
ATOM	11151	CB	GLN	1173	0.248	105.951	79.419	1.00	0.00	C
ATOM	11152	CG	GLN	1173	-1.280	105.988	79.497	1.00	0.00	C
ATOM	11153	CD	GLN	1173	-1.816	105.255	78.282	1.00	0.00	C
ATOM	11154	OE1	GLN	1173	-1.133	105.155	77.264	1.00	0.00	O
ATOM	11155	NE2	GLN	1173	-3.070	104.738	78.379	1.00	0.00	N
ATOM	11156	1HE2	GLN	1173	-3.430	104.245	77.562	1.00	0.00	H
ATOM	11157	2HE2	GLN	1173	-3.636	104.821	79.223	1.00	0.00	H
ATOM	11158	C	GLN	1173	2.382	106.924	80.149	1.00	0.00	C
ATOM	11159	O	GLN	1173	2.882	106.299	79.216	1.00	0.00	O
ATOM	11160	N	LYS	1174	3.122	107.533	81.093	1.00	0.00	N
ATOM	11161	HN	LYS	1174	2.657	107.971	81.888	1.00	0.00	H
ATOM	11162	CA	LYS	1174	4.550	107.577	81.002	1.00	0.00	C
ATOM	11163	CB	LYS	1174	5.220	108.192	82.242	1.00	0.00	C
ATOM	11164	CG	LYS	1174	4.623	109.532	82.674	1.00	0.00	C
ATOM	11165	CD	LYS	1174	4.697	110.623	81.612	1.00	0.00	C
ATOM	11166	CE	LYS	1174	3.914	111.884	81.981	1.00	0.00	C
ATOM	11167	NZ	LYS	1174	2.473	111.569	82.095	1.00	0.00	N
ATOM	11168	HZ1	LYS	1174	1.951	112.410	82.341	1.00	0.00	H
ATOM	11169	HZ2	LYS	1174	2.299	110.806	82.749	1.00	0.00	H
ATOM	11170	HZ3	LYS	1174	2.110	111.127	81.250	1.00	0.00	H
ATOM	11171	C	LYS	1174	5.000	106.161	80.956	1.00	0.00	C

ATOM	11172	O	LYS	1174	4.567	105.337	81.762	1.00	0.00	O
ATOM	11173	N	GLY	1175	5.894	105.836	80.007	1.00	0.00	N
ATOM	11174	HN	GLY	1175	6.264	106.538	79.366	1.00	0.00	H
ATOM	11175	CA	GLY	1175	6.306	104.473	79.930	1.00	0.00	C
ATOM	11176	C	GLY	1175	6.902	104.232	78.584	1.00	0.00	C
ATOM	11177	O	GLY	1175	7.859	104.890	78.181	1.00	0.00	O
ATOM	11178	N	ILE	1176	6.346	103.242	77.864	1.00	0.00	N
ATOM	11179	HN	ILE	1176	5.507	102.778	78.213	1.00	0.00	H
ATOM	11180	CA	ILE	1176	6.911	102.828	76.616	1.00	0.00	C
ATOM	11181	CB	ILE	1176	6.161	101.654	76.073	1.00	0.00	C
ATOM	11182	CG1	ILE	1176	6.192	100.528	77.118	1.00	0.00	C
ATOM	11183	CG2	ILE	1176	6.764	101.257	74.715	1.00	0.00	C
ATOM	11184	CD1	ILE	1176	5.120	99.471	76.896	1.00	0.00	C
ATOM	11185	C	ILE	1176	6.857	103.925	75.589	1.00	0.00	C
ATOM	11186	O	ILE	1176	7.897	104.380	75.119	1.00	0.00	O
ATOM	11187	N	TYR	1177	5.658	104.461	75.295	1.00	0.00	N
ATOM	11188	HN	TYR	1177	4.836	104.151	75.813	1.00	0.00	H
ATOM	11189	CA	TYR	1177	5.503	105.461	74.268	1.00	0.00	C
ATOM	11190	CB	TYR	1177	4.052	105.959	74.147	1.00	0.00	C
ATOM	11191	CG	TYR	1177	4.030	107.090	73.177	1.00	0.00	C
ATOM	11192	CD1	TYR	1177	4.039	106.855	71.821	1.00	0.00	C
ATOM	11193	CD2	TYR	1177	3.993	108.390	73.627	1.00	0.00	C
ATOM	11194	CE1	TYR	1177	4.016	107.903	70.931	1.00	0.00	C
ATOM	11195	CE2	TYR	1177	3.970	109.441	72.742	1.00	0.00	C
ATOM	11196	CZ	TYR	1177	3.981	109.198	71.390	1.00	0.00	C
ATOM	11197	OH	TYR	1177	3.956	110.274	70.477	1.00	0.00	O
ATOM	11198	HH	TYR	1177	3.932	111.169	70.794	1.00	0.00	H
ATOM	11199	C	TYR	1177	6.354	106.624	74.648	1.00	0.00	C
ATOM	11200	O	TYR	1177	6.937	107.291	73.795	1.00	0.00	O
ATOM	11201	N	PHE	1178	6.414	106.906	75.958	1.00	0.00	N
ATOM	11202	HN	PHE	1178	5.889	106.321	76.608	1.00	0.00	H
ATOM	11203	CA	PHE	1178	7.184	107.994	76.484	1.00	0.00	C
ATOM	11204	CB	PHE	1178	7.087	108.036	78.023	1.00	0.00	C
ATOM	11205	CG	PHE	1178	7.815	109.221	78.563	1.00	0.00	C
ATOM	11206	CD1	PHE	1178	9.191	109.256	78.596	1.00	0.00	C
ATOM	11207	CD2	PHE	1178	7.113	110.290	79.070	1.00	0.00	C
ATOM	11208	CE1	PHE	1178	9.858	110.345	79.102	1.00	0.00	C
ATOM	11209	CE2	PHE	1178	7.772	111.383	79.578	1.00	0.00	C
ATOM	11210	CZ	PHE	1178	9.146	111.412	79.592	1.00	0.00	C
ATOM	11211	C	PHE	1178	8.620	107.748	76.133	1.00	0.00	C
ATOM	11212	O	PHE	1178	9.303	108.606	75.575	1.00	0.00	O
ATOM	11213	N	SER	1179	9.112	106.530	76.411	1.00	0.00	N
ATOM	11214	HN	SER	1179	8.505	105.804	76.792	1.00	0.00	H
ATOM	11215	CA	SER	1179	10.495	106.260	76.168	1.00	0.00	C
ATOM	11216	CB	SER	1179	10.897	104.824	76.538	1.00	0.00	C
ATOM	11217	OG	SER	1179	10.740	104.626	77.934	1.00	0.00	O
ATOM	11218	HG	SER	1179	10.989	103.738	78.163	1.00	0.00	H
ATOM	11219	C	SER	1179	10.726	106.428	74.706	1.00	0.00	C
ATOM	11220	O	SER	1179	11.837	106.720	74.284	1.00	0.00	O
ATOM	11221	N	MET	1180	9.690	106.218	73.880	1.00	0.00	N
ATOM	11222	HN	MET	1180	8.784	105.940	74.256	1.00	0.00	H
ATOM	11223	CA	MET	1180	9.862	106.386	72.465	1.00	0.00	C
ATOM	11224	CB	MET	1180	8.617	105.971	71.661	1.00	0.00	C
ATOM	11225	CG	MET	1180	8.274	104.483	71.779	1.00	0.00	C
ATOM	11226	SD	MET	1180	9.565	103.358	71.166	1.00	0.00	S
ATOM	11227	CE	MET	1180	9.429	103.852	69.424	1.00	0.00	C
ATOM	11228	C	MET	1180	10.131	107.824	72.160	1.00	0.00	C
ATOM	11229	O	MET	1180	11.012	108.144	71.362	1.00	0.00	O
ATOM	11230	N	VAL	1181	9.380	108.750	72.785	1.00	0.00	N
ATOM	11231	HN	VAL	1181	8.635	108.490	73.431	1.00	0.00	H
ATOM	11232	CA	VAL	1181	9.682	110.117	72.496	1.00	0.00	C
ATOM	11233	CB	VAL	1181	8.675	111.126	72.988	1.00	0.00	C
ATOM	11234	CG1	VAL	1181	7.407	110.960	72.134	1.00	0.00	C
ATOM	11235	CG2	VAL	1181	8.402	110.940	74.484	1.00	0.00	C
ATOM	11236	C	VAL	1181	11.049	110.343	73.048	1.00	0.00	C
ATOM	11237	O	VAL	1181	11.812	111.173	72.558	1.00	0.00	O
ATOM	11238	N	SER	1182	11.381	109.579	74.102	1.00	0.00	N
ATOM	11239	HN	SER	1182	10.685	108.926	74.461	1.00	0.00	H
ATOM	11240	CA	SER	1182	12.659	109.631	74.750	1.00	0.00	C
ATOM	11241	CB	SER	1182	12.695	108.701	75.973	1.00	0.00	C
ATOM	11242	OG	SER	1182	13.964	108.765	76.598	1.00	0.00	O
ATOM	11243	HG	SER	1182	13.986	108.190	77.354	1.00	0.00	H
ATOM	11244	C	SER	1182	13.790	109.228	73.804	1.00	0.00	C
ATOM	11245	O	SER	1182	14.783	109.947	73.707	1.00	0.00	O



ATOM	11246	N	VAL	1183	13.676	108.087	73.074	1.00	0.00	N
ATOM	11247	HN	VAL	1183	12.817	107.546	73.172	1.00	0.00	H
ATOM	11248	CA	VAL	1183	14.689	107.582	72.164	1.00	0.00	C
ATOM	11249	CB	VAL	1183	14.312	106.285	71.503	1.00	0.00	C
ATOM	11250	CG1	VAL	1183	13.080	106.510	70.612	1.00	0.00	C
ATOM	11251	CG2	VAL	1183	15.536	105.757	70.734	1.00	0.00	C
ATOM	11252	C	VAL	1183	14.806	108.636	71.106	1.00	0.00	C
ATOM	11253	O	VAL	1183	15.890	108.907	70.593	1.00	0.00	O
ATOM	11254	N	GLN	1184	13.662	109.275	70.778	1.00	0.00	N
ATOM	11255	HN	GLN	1184	12.810	109.027	71.280	1.00	0.00	H
ATOM	11256	CA	GLN	1184	13.581	110.286	69.759	1.00	0.00	C
ATOM	11257	CB	GLN	1184	12.154	110.825	69.567	1.00	0.00	C
ATOM	11258	CG	GLN	1184	12.052	111.904	68.488	1.00	0.00	C
ATOM	11259	CD	GLN	1184	10.597	112.341	68.411	1.00	0.00	C
ATOM	11260	OE1	GLN	1184	9.990	112.708	69.416	1.00	0.00	O
ATOM	11261	NE2	GLN	1184	10.015	112.287	67.184	1.00	0.00	N
ATOM	11262	1HE2	GLN	1184	10.518	111.983	66.351	1.00	0.00	H
ATOM	11263	2HE2	GLN	1184	9.039	112.580	67.132	1.00	0.00	H
ATOM	11264	C	GLN	1184	14.435	111.441	70.140	1.00	0.00	C
ATOM	11265	O	GLN	1184	15.128	112.011	69.299	1.00	0.00	O
ATOM	11266	N	ALA	1185	14.416	111.813	71.430	1.00	0.00	N
ATOM	11267	HN	ALA	1185	13.835	111.304	72.097	1.00	0.00	H
ATOM	11268	CA	ALA	1185	15.206	112.919	71.873	1.00	0.00	C
ATOM	11269	CB	ALA	1185	15.018	113.221	73.368	1.00	0.00	C
ATOM	11270	C	ALA	1185	16.681	112.585	71.651	1.00	0.00	C
ATOM	11271	O	ALA	1185	16.990	111.493	71.104	1.00	0.00	O
ATOM	11272	OXT	ALA	1185	17.528	113.437	72.034	1.00	0.00	O
HETATM	11273	C	LIG	1	10.437	77.459	16.999	1.00	0.00	C
HETATM	11274	C	LIG	1	10.272	75.928	17.047	1.00	0.00	C
HETATM	11275	C	LIG	1	9.875	75.284	15.712	1.00	0.00	C
HETATM	11276	C	LIG	1	9.726	73.772	15.782	1.00	0.00	C
HETATM	11277	C	LIG	1	11.637	77.951	17.834	1.00	0.00	C
HETATM	11278	C	LIG	1	12.562	78.940	17.115	1.00	0.00	C
HETATM	11279	C	LIG	1	13.957	78.929	17.724	1.00	0.00	C
HETATM	11280	C	LIG	1	9.170	78.178	17.442	1.00	0.00	C
HETATM	11281	O	LIG	1	8.513	78.939	16.743	1.00	0.00	O
HETATM	11282	O	LIG	1	8.824	77.870	18.719	1.00	0.00	O
HETATM	11283	H	LIG	1	9.383	78.341	19.373	1.00	0.00	H
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