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HEADER      ModPipe Model of GI 115833068                2018-01-2
TITLE      Model of Sequence 2 from patent US 7105656
SOURCE
AUTHOR      URSULA PIEPER, BENJAMIN WEBB, EASHWAR NARAYANAN, ANDREJ SALI
REMARK 220 Original ID: MDRI_HUMAN_MUT
REMARK 220 EXPERIMENTAL DETAILS
REMARK 220 EXPERIMENT TYPE: THEORETICAL MODEL
REMARK 220 METHOD: HOMOLOGY MODELING
REMARK 220 PROGRAM: MODPIPE
REMARK 220 SEQUENCE IDENTITY:                89.00
REMARK 220 GA341 SCORE:                      1.00
REMARK 220 EVALUE:                          0
REMARK 220 MPQS:                            1.9388
REMARK 220 zDOPE SCORE:                     -0.33
REMARK 220 TSVMOD METHOD:                    NA
REMARK 220 TSVMOD RMSD:
REMARK 220 TSVMOD N035:
REMARK 220 TEMPLATE PDB:                    5ko2
REMARK 220 TEMPLATE CHAIN:                  A
REMARK 220 TARGET LENGTH:                   1280
REMARK 220 TARGET BEGIN:                    29
REMARK 220 TARGET END:                      1276
REMARK 220 TEMPLATE BEGIN:                  28
REMARK 220 TEMPLATE END:                    1272
REMARK 220 MODPIPE RUN:                     MW-hPGPmutantG185V
REMARK 220 MODPIPE MODEL ID:                444f339089431267be00029d242df5ac
REMARK 220 MODPIPE ALIGN ID:                fdb3ed07482b784b780105ef8458cc3e
REMARK 220 MODPIPE SEQUENCE ID:             60d39a16bd58385778d9588e6f45244eMDLETKRQ
EXPDTA      THEORETICAL MODEL, MODELLER SVN 2018/01/27 03:13:33
REMARK      6 MODELLER OBJECTIVE FUNCTION:    7692.9263
REMARK      6 MODELLER BEST TEMPLATE % SEQ ID: 88.861
REMARK      6 GENERATED BY MODPIPE VERSION SVN.r1610
ATOM        1  N   GLU   29      37.767  96.817  23.280  1.00  72.39      N
ATOM        2  CA  GLU   29      37.525  95.628  22.433  1.00  72.39      C
ATOM        3  CB  GLU   29      36.658  95.992  21.216  1.00  72.39      C
ATOM        4  CG  GLU   29      37.331  96.990  20.272  1.00  72.39      C
ATOM        5  CD  GLU   29      36.625  96.922  18.926  1.00  72.39      C
ATOM        6  OE1 GLU   29      35.574  96.233  18.841  1.00  72.39      O
ATOM        7  OE2 GLU   29      37.133  97.555  17.963  1.00  72.39      O
ATOM        8  C   GLU   29      38.823  95.107  21.901  1.00  72.39      C
ATOM        9  O   GLU   29      39.065  93.901  21.893  1.00  72.39      O
ATOM       10  N   LYS   30      39.704  96.024  21.456  1.00 136.21      N
ATOM       11  CA  LYS   30      40.949  95.647  20.854  1.00 136.21      C
ATOM       12  CB  LYS   30      41.666  96.818  20.159  1.00 136.21      C
ATOM       13  CG  LYS   30      42.768  96.381  19.193  1.00 136.21      C
ATOM       14  CD  LYS   30      42.229  95.820  17.876  1.00 136.21      C
ATOM       15  CE  LYS   30      41.269  94.642  18.048  1.00 136.21      C
ATOM       16  NZ  LYS   30      40.679  94.279  16.740  1.00 136.21      N
ATOM       17  C   LYS   30      41.862  95.151  21.923  1.00 136.21      C
ATOM       18  O   LYS   30      41.866  95.656  23.045  1.00 136.21      O
ATOM       19  N   LYS   31      42.655  94.116  21.589  1.00 161.02      N
ATOM       20  CA  LYS   31      43.575  93.555  22.527  1.00 161.02      C
ATOM       21  CB  LYS   31      42.961  92.354  23.268  1.00 161.02      C
ATOM       22  CG  LYS   31      41.942  91.597  22.405  1.00 161.02      C
ATOM       23  CD  LYS   31      42.521  90.914  21.165  1.00 161.02      C
ATOM       24  CE  LYS   31      41.464  90.558  20.117  1.00 161.02      C
ATOM       25  NZ  LYS   31      40.468  89.625  20.689  1.00 161.02      N
ATOM       26  C   LYS   31      44.792  93.095  21.779  1.00 161.02      C
ATOM       27  O   LYS   31      44.699  92.512  20.700  1.00 161.02      O
ATOM       28  N   PRO   32      45.946  93.351  22.334  1.00  74.74      N
ATOM       29  CA  PRO   32      47.184  92.946  21.722  1.00  74.74      C
ATOM       30  CD  PRO   32      46.130  94.447  23.268  1.00  74.74      C
ATOM       31  CB  PRO   32      48.279  93.798  22.370  1.00  74.74      C
ATOM       32  CG  PRO   32      47.622  94.379  23.635  1.00  74.74      C
ATOM       33  C   PRO   32      47.387  91.473  21.904  1.00  74.74      C
ATOM       34  O   PRO   32      46.719  90.882  22.750  1.00  74.74      O
ATOM       35  N   THR   33      48.292  90.864  21.108  1.00  47.99      N
ATOM       36  CA  THR   33      48.526  89.447  21.164  1.00  47.99      C
ATOM       37  CB  THR   33      47.828  88.751  20.023  1.00  47.99      C
ATOM       38  OG1 THR   33      46.441  89.050  20.065  1.00  47.99      O
ATOM       39  CG2 THR   33      48.021  87.230  20.107  1.00  47.99      C
ATOM       40  C   THR   33      50.009  89.232  21.025  1.00  47.99      C
ATOM       41  O   THR   33      50.756  90.160  20.714  1.00  47.99      O
ATOM       42  N   VAL   34      50.471  87.989  21.262  1.00  47.01      N

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ATOM	43	CA	VAL	34	51.860	87.644	21.193	1.00	47.01	C
ATOM	44	CB	VAL	34	52.282	86.788	22.353	1.00	47.01	C
ATOM	45	CG1	VAL	34	53.771	86.452	22.220	1.00	47.01	C
ATOM	46	CG2	VAL	34	51.920	87.519	23.657	1.00	47.01	C
ATOM	47	C	VAL	34	52.064	86.851	19.936	1.00	47.01	C
ATOM	48	O	VAL	34	51.129	86.249	19.408	1.00	47.01	O
ATOM	49	N	SER	35	53.298	86.863	19.393	1.00	29.55	N
ATOM	50	CA	SER	35	53.574	86.107	18.203	1.00	29.55	C
ATOM	51	CB	SER	35	54.961	86.397	17.602	1.00	29.55	C
ATOM	52	OG	SER	35	55.977	86.061	18.535	1.00	29.55	O
ATOM	53	C	SER	35	53.515	84.659	18.578	1.00	29.55	C
ATOM	54	O	SER	35	53.808	84.286	19.712	1.00	29.55	O
ATOM	55	N	VAL	36	53.129	83.802	17.612	1.00	94.47	N
ATOM	56	CA	VAL	36	52.959	82.399	17.853	1.00	94.47	C
ATOM	57	CB	VAL	36	52.453	81.659	16.649	1.00	94.47	C
ATOM	58	CG1	VAL	36	53.495	81.769	15.523	1.00	94.47	C
ATOM	59	CG2	VAL	36	52.138	80.211	17.062	1.00	94.47	C
ATOM	60	C	VAL	36	54.268	81.789	18.261	1.00	94.47	C
ATOM	61	O	VAL	36	54.316	80.971	19.176	1.00	94.47	O
ATOM	62	N	PHE	37	55.369	82.184	17.599	1.00	42.89	N
ATOM	63	CA	PHE	37	56.660	81.599	17.827	1.00	42.89	C
ATOM	64	CB	PHE	37	57.728	82.150	16.866	1.00	42.89	C
ATOM	65	CG	PHE	37	59.014	81.453	17.150	1.00	42.89	C
ATOM	66	CD1	PHE	37	59.290	80.237	16.568	1.00	42.89	C
ATOM	67	CD2	PHE	37	59.945	82.015	17.993	1.00	42.89	C
ATOM	68	CE1	PHE	37	60.476	79.589	16.825	1.00	42.89	C
ATOM	69	CE2	PHE	37	61.133	81.372	18.253	1.00	42.89	C
ATOM	70	CZ	PHE	37	61.400	80.157	17.668	1.00	42.89	C
ATOM	71	C	PHE	37	57.136	81.859	19.228	1.00	42.89	C
ATOM	72	O	PHE	37	57.642	80.952	19.886	1.00	42.89	O
ATOM	73	N	SER	38	56.990	83.106	19.722	1.00	92.54	N
ATOM	74	CA	SER	38	57.512	83.502	21.005	1.00	92.54	C
ATOM	75	CB	SER	38	57.448	85.021	21.223	1.00	92.54	C
ATOM	76	OG	SER	38	56.113	85.476	21.091	1.00	92.54	O
ATOM	77	C	SER	38	56.818	82.810	22.151	1.00	92.54	C
ATOM	78	O	SER	38	57.461	82.458	23.139	1.00	92.54	O
ATOM	79	N	MET	39	55.506	82.533	22.020	1.00	188.15	N
ATOM	80	CA	MET	39	54.664	81.999	23.062	1.00	188.15	C
ATOM	81	CB	MET	39	53.273	81.617	22.534	1.00	188.15	C
ATOM	82	CG	MET	39	52.239	82.728	22.424	1.00	188.15	C
ATOM	83	SD	MET	39	51.266	82.954	23.937	1.00	188.15	S
ATOM	84	CE	MET	39	50.537	81.289	23.934	1.00	188.15	C
ATOM	85	C	MET	39	55.190	80.687	23.557	1.00	188.15	C
ATOM	86	O	MET	39	55.138	80.401	24.750	1.00	188.15	O
ATOM	87	N	PHE	40	55.685	79.858	22.630	1.00	158.61	N
ATOM	88	CA	PHE	40	56.181	78.520	22.810	1.00	158.61	C
ATOM	89	CB	PHE	40	56.204	77.668	21.533	1.00	158.61	C
ATOM	90	CG	PHE	40	54.776	77.274	21.360	1.00	158.61	C
ATOM	91	CD1	PHE	40	54.259	76.225	22.086	1.00	158.61	C
ATOM	92	CD2	PHE	40	53.948	77.952	20.495	1.00	158.61	C
ATOM	93	CE1	PHE	40	52.943	75.851	21.948	1.00	158.61	C
ATOM	94	CE2	PHE	40	52.630	77.581	20.354	1.00	158.61	C
ATOM	95	CZ	PHE	40	52.124	76.528	21.079	1.00	158.61	C
ATOM	96	C	PHE	40	57.504	78.491	23.517	1.00	158.61	C
ATOM	97	O	PHE	40	58.131	77.440	23.613	1.00	158.61	O
ATOM	98	N	ARG	41	57.997	79.670	23.936	1.00	412.00	N
ATOM	99	CA	ARG	41	59.272	79.927	24.557	1.00	412.00	C
ATOM	100	CB	ARG	41	59.254	81.364	25.126	1.00	412.00	C
ATOM	101	CG	ARG	41	60.521	81.839	25.832	1.00	412.00	C
ATOM	102	CD	ARG	41	60.304	83.026	26.790	1.00	412.00	C
ATOM	103	NE	ARG	41	59.931	84.240	26.001	1.00	412.00	N
ATOM	104	CZ	ARG	41	59.740	85.448	26.618	1.00	412.00	C
ATOM	105	NH1	ARG	41	59.837	85.563	27.975	1.00	412.00	N
ATOM	106	NH2	ARG	41	59.448	86.553	25.872	1.00	412.00	N
ATOM	107	C	ARG	41	59.598	79.008	25.709	1.00	412.00	C
ATOM	108	O	ARG	41	60.668	78.452	25.783	1.00	412.00	O
ATOM	109	N	TYR	42	58.806	78.707	26.713	1.00	249.13	N
ATOM	110	CA	TYR	42	59.635	77.883	27.574	1.00	249.13	C
ATOM	111	CB	TYR	42	59.286	78.065	29.060	1.00	249.13	C
ATOM	112	CG	TYR	42	59.495	79.496	29.431	1.00	249.13	C
ATOM	113	CD1	TYR	42	60.751	79.971	29.734	1.00	249.13	C
ATOM	114	CD2	TYR	42	58.425	80.362	29.487	1.00	249.13	C
ATOM	115	CE1	TYR	42	60.939	81.290	30.079	1.00	249.13	C
ATOM	116	CE2	TYR	42	58.608	81.681	29.831	1.00	249.13	C

ATOM	117	CZ	TYR	42	59.866	82.148	30.129	1.00249.13	C
ATOM	118	OH	TYR	42	60.057	83.502	30.483	1.00249.13	O
ATOM	119	C	TYR	42	59.382	76.424	27.261	1.00249.13	C
ATOM	120	O	TYR	42	59.030	75.661	28.157	1.00249.13	O
ATOM	121	N	SER	43	59.634	75.959	26.013	1.00133.88	N
ATOM	122	CA	SER	43	59.343	74.581	25.695	1.00133.88	C
ATOM	123	CB	SER	43	58.265	74.427	24.604	1.00133.88	C
ATOM	124	OG	SER	43	57.028	74.949	25.064	1.00133.88	O
ATOM	125	C	SER	43	60.586	73.900	25.202	1.00133.88	C
ATOM	126	O	SER	43	61.113	74.213	24.135	1.00133.88	O
ATOM	127	N	ASN	44	61.039	72.877	25.950	1.00 86.69	N
ATOM	128	CA	ASN	44	62.257	72.186	25.644	1.00 86.69	C
ATOM	129	CB	ASN	44	62.701	71.222	26.760	1.00 86.69	C
ATOM	130	CG	ASN	44	64.166	70.860	26.554	1.00 86.69	C
ATOM	131	OD1	ASN	44	64.865	71.468	25.744	1.00 86.69	O
ATOM	132	ND2	ASN	44	64.649	69.839	27.312	1.00 86.69	N
ATOM	133	C	ASN	44	62.050	71.379	24.399	1.00 86.69	C
ATOM	134	O	ASN	44	60.955	71.329	23.839	1.00 86.69	O
ATOM	135	N	TRP	45	63.130	70.728	23.927	1.00 70.13	N
ATOM	136	CA	TRP	45	63.074	69.970	22.716	1.00 70.13	C
ATOM	137	CB	TRP	45	64.430	69.374	22.297	1.00 70.13	C
ATOM	138	CG	TRP	45	64.973	68.274	23.173	1.00 70.13	C
ATOM	139	CD2	TRP	45	64.884	66.883	22.831	1.00 70.13	C
ATOM	140	CD1	TRP	45	65.665	68.342	24.346	1.00 70.13	C
ATOM	141	NE1	TRP	45	66.006	67.076	24.762	1.00 70.13	N
ATOM	142	CE2	TRP	45	65.534	66.169	23.836	1.00 70.13	C
ATOM	143	CE3	TRP	45	64.314	66.255	21.761	1.00 70.13	C
ATOM	144	CZ2	TRP	45	65.623	64.807	23.786	1.00 70.13	C
ATOM	145	CZ3	TRP	45	64.401	64.882	21.717	1.00 70.13	C
ATOM	146	CH2	TRP	45	65.043	64.172	22.711	1.00 70.13	C
ATOM	147	C	TRP	45	62.083	68.875	22.936	1.00 70.13	C
ATOM	148	O	TRP	45	61.414	68.444	22.000	1.00 70.13	O
ATOM	149	N	LEU	46	61.989	68.363	24.179	1.00115.46	N
ATOM	150	CA	LEU	46	61.004	67.356	24.453	1.00115.46	C
ATOM	151	CB	LEU	46	61.029	66.795	25.884	1.00115.46	C
ATOM	152	CG	LEU	46	62.155	65.795	26.172	1.00115.46	C
ATOM	153	CD1	LEU	46	63.538	66.444	26.040	1.00115.46	C
ATOM	154	CD2	LEU	46	61.931	65.112	27.530	1.00115.46	C
ATOM	155	C	LEU	46	59.634	67.934	24.281	1.00115.46	C
ATOM	156	O	LEU	46	58.761	67.297	23.696	1.00115.46	O
ATOM	157	N	ASP	47	59.407	69.165	24.779	1.00 57.15	N
ATOM	158	CA	ASP	47	58.091	69.736	24.698	1.00 57.15	C
ATOM	159	CB	ASP	47	57.990	71.149	25.305	1.00 57.15	C
ATOM	160	CG	ASP	47	58.014	71.029	26.821	1.00 57.15	C
ATOM	161	OD1	ASP	47	57.896	69.880	27.324	1.00 57.15	O
ATOM	162	OD2	ASP	47	58.140	72.085	27.497	1.00 57.15	O
ATOM	163	C	ASP	47	57.711	69.851	23.257	1.00 57.15	C
ATOM	164	O	ASP	47	56.580	69.552	22.877	1.00 57.15	O
ATOM	165	N	LYS	48	58.656	70.275	22.404	1.00158.57	N
ATOM	166	CA	LYS	48	58.334	70.432	21.017	1.00158.57	C
ATOM	167	CB	LYS	48	59.438	71.130	20.203	1.00158.57	C
ATOM	168	CG	LYS	48	60.788	70.424	20.211	1.00158.57	C
ATOM	169	CD	LYS	48	61.813	71.085	19.289	1.00158.57	C
ATOM	170	CE	LYS	48	62.412	72.363	19.880	1.00158.57	C
ATOM	171	NZ	LYS	48	61.344	73.358	20.127	1.00158.57	N
ATOM	172	C	LYS	48	57.987	69.100	20.418	1.00158.57	C
ATOM	173	O	LYS	48	57.194	69.033	19.481	1.00158.57	O
ATOM	174	N	LEU	49	58.601	68.006	20.911	1.00165.54	N
ATOM	175	CA	LEU	49	58.334	66.687	20.393	1.00165.54	C
ATOM	176	CB	LEU	49	59.231	65.600	21.001	1.00165.54	C
ATOM	177	CG	LEU	49	60.726	65.767	20.710	1.00165.54	C
ATOM	178	CD1	LEU	49	61.509	64.559	21.239	1.00165.54	C
ATOM	179	CD2	LEU	49	60.990	66.049	19.223	1.00165.54	C
ATOM	180	C	LEU	49	56.933	66.234	20.701	1.00165.54	C
ATOM	181	O	LEU	49	56.235	65.708	19.834	1.00165.54	O
ATOM	182	N	TYR	50	56.480	66.446	21.951	1.00 89.04	N
ATOM	183	CA	TYR	50	55.212	65.931	22.398	1.00 89.04	C
ATOM	184	CB	TYR	50	54.880	66.299	23.862	1.00 89.04	C
ATOM	185	CG	TYR	50	55.855	65.654	24.795	1.00 89.04	C
ATOM	186	CD1	TYR	50	55.787	64.307	25.070	1.00 89.04	C
ATOM	187	CD2	TYR	50	56.825	66.406	25.423	1.00 89.04	C
ATOM	188	CE1	TYR	50	56.684	63.721	25.934	1.00 89.04	C
ATOM	189	CE2	TYR	50	57.724	65.828	26.288	1.00 89.04	C
ATOM	190	CZ	TYR	50	57.656	64.480	26.543	1.00 89.04	C

ATOM	191	OH	TYR	50	58.577	63.883	27.430	1.00	89.04	O
ATOM	192	C	TYR	50	54.124	66.513	21.554	1.00	89.04	C
ATOM	193	O	TYR	50	53.163	65.833	21.193	1.00	89.04	O
ATOM	194	N	MET	51	54.251	67.808	21.231	1.00	118.70	N
ATOM	195	CA	MET	51	53.258	68.515	20.478	1.00	118.70	C
ATOM	196	CB	MET	51	53.719	69.955	20.211	1.00	118.70	C
ATOM	197	CG	MET	51	54.228	70.672	21.465	1.00	118.70	C
ATOM	198	SD	MET	51	52.973	71.393	22.554	1.00	118.70	S
ATOM	199	CE	MET	51	52.944	72.928	21.591	1.00	118.70	C
ATOM	200	C	MET	51	53.128	67.865	19.125	1.00	118.70	C
ATOM	201	O	MET	51	52.024	67.653	18.623	1.00	118.70	O
ATOM	202	N	VAL	52	54.270	67.534	18.491	1.00	42.02	N
ATOM	203	CA	VAL	52	54.240	66.974	17.167	1.00	42.02	C
ATOM	204	CB	VAL	52	55.613	66.767	16.599	1.00	42.02	C
ATOM	205	CG1	VAL	52	55.478	66.083	15.228	1.00	42.02	C
ATOM	206	CG2	VAL	52	56.334	68.124	16.554	1.00	42.02	C
ATOM	207	C	VAL	52	53.561	65.638	17.179	1.00	42.02	C
ATOM	208	O	VAL	52	52.667	65.380	16.373	1.00	42.02	O
ATOM	209	N	VAL	53	53.967	64.753	18.109	1.00	107.57	N
ATOM	210	CA	VAL	53	53.408	63.432	18.186	1.00	107.57	C
ATOM	211	CB	VAL	53	54.071	62.570	19.226	1.00	107.57	C
ATOM	212	CG1	VAL	53	55.506	62.266	18.778	1.00	107.57	C
ATOM	213	CG2	VAL	53	54.025	63.304	20.573	1.00	107.57	C
ATOM	214	C	VAL	53	51.959	63.544	18.533	1.00	107.57	C
ATOM	215	O	VAL	53	51.120	62.801	18.023	1.00	107.57	O
ATOM	216	N	GLY	54	51.629	64.499	19.415	1.00	37.25	N
ATOM	217	CA	GLY	54	50.276	64.665	19.852	1.00	37.25	C
ATOM	218	C	GLY	54	49.411	64.993	18.674	1.00	37.25	C
ATOM	219	O	GLY	54	48.250	64.589	18.619	1.00	37.25	O
ATOM	220	N	THR	55	49.936	65.785	17.721	1.00	53.56	N
ATOM	221	CA	THR	55	49.160	66.164	16.573	1.00	53.56	C
ATOM	222	CB	THR	55	49.868	67.154	15.697	1.00	53.56	C
ATOM	223	OG1	THR	55	50.163	68.334	16.429	1.00	53.56	O
ATOM	224	CG2	THR	55	48.966	67.480	14.495	1.00	53.56	C
ATOM	225	C	THR	55	48.854	64.969	15.721	1.00	53.56	C
ATOM	226	O	THR	55	47.707	64.749	15.331	1.00	53.56	O
ATOM	227	N	LEU	56	49.873	64.127	15.464	1.00	138.41	N
ATOM	228	CA	LEU	56	49.719	63.030	14.552	1.00	138.41	C
ATOM	229	CB	LEU	56	50.981	62.159	14.442	1.00	138.41	C
ATOM	230	CG	LEU	56	50.815	60.986	13.460	1.00	138.41	C
ATOM	231	CD1	LEU	56	50.550	61.498	12.036	1.00	138.41	C
ATOM	232	CD2	LEU	56	52.005	60.015	13.535	1.00	138.41	C
ATOM	233	C	LEU	56	48.611	62.167	15.043	1.00	138.41	C
ATOM	234	O	LEU	56	47.828	61.636	14.256	1.00	138.41	O
ATOM	235	N	ALA	57	48.533	61.978	16.371	1.00	40.15	N
ATOM	236	CA	ALA	57	47.465	61.194	16.904	1.00	40.15	C
ATOM	237	CB	ALA	57	47.567	61.012	18.429	1.00	40.15	C
ATOM	238	C	ALA	57	46.170	61.897	16.623	1.00	40.15	C
ATOM	239	O	ALA	57	45.198	61.290	16.176	1.00	40.15	O
ATOM	240	N	ALA	58	46.139	63.225	16.828	1.00	47.35	N
ATOM	241	CA	ALA	58	44.904	63.945	16.694	1.00	47.35	C
ATOM	242	CB	ALA	58	45.041	65.440	17.028	1.00	47.35	C
ATOM	243	C	ALA	58	44.375	63.825	15.296	1.00	47.35	C
ATOM	244	O	ALA	58	43.168	63.674	15.101	1.00	47.35	O
ATOM	245	N	ILE	59	45.240	63.901	14.267	1.00	185.75	N
ATOM	246	CA	ILE	59	44.657	63.793	12.961	1.00	185.75	C
ATOM	247	CB	ILE	59	45.468	64.246	11.771	1.00	185.75	C
ATOM	248	CG1	ILE	59	46.828	63.567	11.664	1.00	185.75	C
ATOM	249	CG2	ILE	59	45.565	65.777	11.849	1.00	185.75	C
ATOM	250	CD1	ILE	59	47.808	64.174	12.651	1.00	185.75	C
ATOM	251	C	ILE	59	44.070	62.437	12.714	1.00	185.75	C
ATOM	252	O	ILE	59	43.022	62.330	12.079	1.00	185.75	O
ATOM	253	N	ILE	60	44.710	61.357	13.196	1.00	96.11	N
ATOM	254	CA	ILE	60	44.157	60.060	12.920	1.00	96.11	C
ATOM	255	CB	ILE	60	44.997	58.912	13.412	1.00	96.11	C
ATOM	256	CG1	ILE	60	44.530	57.610	12.743	1.00	96.11	C
ATOM	257	CG2	ILE	60	44.942	58.857	14.945	1.00	96.11	C
ATOM	258	CD1	ILE	60	45.493	56.441	12.944	1.00	96.11	C
ATOM	259	C	ILE	60	42.799	59.966	13.544	1.00	96.11	C
ATOM	260	O	ILE	60	41.866	59.425	12.952	1.00	96.11	O
ATOM	261	N	HIS	61	42.650	60.504	14.766	1.00	71.82	N
ATOM	262	CA	HIS	61	41.401	60.435	15.466	1.00	71.82	C
ATOM	263	ND1	HIS	61	40.196	61.130	19.050	1.00	71.82	N
ATOM	264	CG	HIS	61	40.283	60.780	17.721	1.00	71.82	C

ATOM	265	CB	HIS	61	41.496	61.028	16.878	1.00	71.82	C
ATOM	266	NE2	HIS	61	38.252	60.198	18.510	1.00	71.82	N
ATOM	267	CD2	HIS	61	39.087	60.212	17.407	1.00	71.82	C
ATOM	268	CE1	HIS	61	38.961	60.760	19.472	1.00	71.82	C
ATOM	269	C	HIS	61	40.351	61.188	14.695	1.00	71.82	C
ATOM	270	O	HIS	61	39.190	60.781	14.663	1.00	71.82	O
ATOM	271	N	GLY	62	40.717	62.316	14.055	1.00	32.71	N
ATOM	272	CA	GLY	62	39.733	63.103	13.357	1.00	32.71	C
ATOM	273	C	GLY	62	39.116	62.322	12.225	1.00	32.71	C
ATOM	274	O	GLY	62	37.905	62.367	12.013	1.00	32.71	O
ATOM	275	N	ALA	63	39.954	61.608	11.452	1.00	61.24	N
ATOM	276	CA	ALA	63	39.576	60.813	10.310	1.00	61.24	C
ATOM	277	CB	ALA	63	40.789	60.284	9.527	1.00	61.24	C
ATOM	278	C	ALA	63	38.764	59.619	10.726	1.00	61.24	C
ATOM	279	O	ALA	63	37.982	59.080	9.944	1.00	61.24	O
ATOM	280	N	GLY	64	38.947	59.146	11.969	1.00	50.36	N
ATOM	281	CA	GLY	64	38.376	57.890	12.379	1.00	50.36	C
ATOM	282	C	GLY	64	36.888	57.825	12.155	1.00	50.36	C
ATOM	283	O	GLY	64	36.380	56.775	11.761	1.00	50.36	O
ATOM	284	N	LEU	65	36.135	58.904	12.452	1.00	177.63	N
ATOM	285	CA	LEU	65	34.704	58.909	12.264	1.00	177.63	C
ATOM	286	CB	LEU	65	33.997	60.108	12.912	1.00	177.63	C
ATOM	287	CG	LEU	65	33.713	59.904	14.403	1.00	177.63	C
ATOM	288	CD1	LEU	65	33.009	61.120	15.010	1.00	177.63	C
ATOM	289	CD2	LEU	65	32.885	58.629	14.610	1.00	177.63	C
ATOM	290	C	LEU	65	34.294	58.902	10.819	1.00	177.63	C
ATOM	291	O	LEU	65	33.325	58.230	10.466	1.00	177.63	O
ATOM	292	N	PRO	66	34.952	59.627	9.957	1.00	75.93	N
ATOM	293	CA	PRO	66	34.524	59.638	8.587	1.00	75.93	C
ATOM	294	CD	PRO	66	35.615	60.866	10.331	1.00	75.93	C
ATOM	295	CB	PRO	66	35.377	60.704	7.906	1.00	75.93	C
ATOM	296	CG	PRO	66	35.653	61.710	9.043	1.00	75.93	C
ATOM	297	C	PRO	66	34.586	58.269	7.981	1.00	75.93	C
ATOM	298	O	PRO	66	33.770	57.957	7.116	1.00	75.93	O
ATOM	299	N	LEU	67	35.542	57.434	8.419	1.00	44.09	N
ATOM	300	CA	LEU	67	35.663	56.101	7.902	1.00	44.09	C
ATOM	301	CB	LEU	67	36.902	55.369	8.441	1.00	44.09	C
ATOM	302	CG	LEU	67	38.219	56.053	8.033	1.00	44.09	C
ATOM	303	CD1	LEU	67	39.441	55.261	8.525	1.00	44.09	C
ATOM	304	CD2	LEU	67	38.250	56.339	6.523	1.00	44.09	C
ATOM	305	C	LEU	67	34.453	55.321	8.312	1.00	44.09	C
ATOM	306	O	LEU	67	33.956	54.481	7.563	1.00	44.09	O
ATOM	307	N	MET	68	33.950	55.578	9.532	1.00	45.68	N
ATOM	308	CA	MET	68	32.805	54.869	10.021	1.00	45.68	C
ATOM	309	CB	MET	68	32.414	55.281	11.452	1.00	45.68	C
ATOM	310	CG	MET	68	33.473	54.916	12.494	1.00	45.68	C
ATOM	311	SD	MET	68	33.808	53.132	12.625	1.00	45.68	S
ATOM	312	CE	MET	68	32.233	52.715	13.425	1.00	45.68	C
ATOM	313	C	MET	68	31.645	55.171	9.119	1.00	45.68	C
ATOM	314	O	MET	68	30.817	54.303	8.851	1.00	45.68	O
ATOM	315	N	MET	69	31.526	56.427	8.655	1.00	50.25	N
ATOM	316	CA	MET	69	30.450	56.799	7.779	1.00	50.25	C
ATOM	317	CB	MET	69	30.398	58.312	7.502	1.00	50.25	C
ATOM	318	CG	MET	69	30.130	59.174	8.740	1.00	50.25	C
ATOM	319	SD	MET	69	28.519	58.907	9.541	1.00	50.25	S
ATOM	320	CE	MET	69	29.040	57.446	10.485	1.00	50.25	C
ATOM	321	C	MET	69	30.609	56.115	6.454	1.00	50.25	C
ATOM	322	O	MET	69	29.629	55.687	5.844	1.00	50.25	O
ATOM	323	N	LEU	70	31.857	56.017	5.957	1.00	57.27	N
ATOM	324	CA	LEU	70	32.082	55.433	4.667	1.00	57.27	C
ATOM	325	CB	LEU	70	33.533	55.561	4.188	1.00	57.27	C
ATOM	326	CG	LEU	70	33.699	55.124	2.724	1.00	57.27	C
ATOM	327	CD1	LEU	70	32.925	56.060	1.784	1.00	57.27	C
ATOM	328	CD2	LEU	70	35.177	54.998	2.341	1.00	57.27	C
ATOM	329	C	LEU	70	31.730	53.976	4.701	1.00	57.27	C
ATOM	330	O	LEU	70	31.108	53.458	3.775	1.00	57.27	O
ATOM	331	N	VAL	71	32.129	53.269	5.775	1.00	92.31	N
ATOM	332	CA	VAL	71	31.840	51.868	5.881	1.00	92.31	C
ATOM	333	CB	VAL	71	32.470	51.212	7.077	1.00	92.31	C
ATOM	334	CG1	VAL	71	33.997	51.341	6.956	1.00	92.31	C
ATOM	335	CG2	VAL	71	31.884	51.827	8.357	1.00	92.31	C
ATOM	336	C	VAL	71	30.358	51.710	5.996	1.00	92.31	C
ATOM	337	O	VAL	71	29.773	50.774	5.453	1.00	92.31	O
ATOM	338	N	PHE	72	29.709	52.656	6.698	1.00	61.64	N

ATOM	339	CA	PHE	72	28.296	52.598	6.927	1.00	61.64	C
ATOM	340	CB	PHE	72	27.780	53.798	7.744	1.00	61.64	C
ATOM	341	CG	PHE	72	26.303	53.663	7.909	1.00	61.64	C
ATOM	342	CD1	PHE	72	25.768	52.780	8.819	1.00	61.64	C
ATOM	343	CD2	PHE	72	25.451	54.440	7.157	1.00	61.64	C
ATOM	344	CE1	PHE	72	24.405	52.668	8.965	1.00	61.64	C
ATOM	345	CE2	PHE	72	24.088	54.333	7.299	1.00	61.64	C
ATOM	346	CZ	PHE	72	23.562	53.443	8.204	1.00	61.64	C
ATOM	347	C	PHE	72	27.590	52.589	5.606	1.00	61.64	C
ATOM	348	O	PHE	72	26.600	51.880	5.436	1.00	61.64	O
ATOM	349	N	GLY	73	28.047	53.401	4.635	1.00	28.23	N
ATOM	350	CA	GLY	73	27.387	53.410	3.359	1.00	28.23	C
ATOM	351	C	GLY	73	27.540	52.076	2.686	1.00	28.23	C
ATOM	352	O	GLY	73	26.580	51.510	2.165	1.00	28.23	O
ATOM	353	N	GLU	74	28.760	51.520	2.712	1.00	57.28	N
ATOM	354	CA	GLU	74	29.052	50.284	2.041	1.00	57.28	C
ATOM	355	CB	GLU	74	30.524	49.872	2.192	1.00	57.28	C
ATOM	356	CG	GLU	74	31.496	50.849	1.528	1.00	57.28	C
ATOM	357	CD	GLU	74	32.910	50.394	1.857	1.00	57.28	C
ATOM	358	OE1	GLU	74	33.076	49.203	2.232	1.00	57.28	O
ATOM	359	OE2	GLU	74	33.844	51.232	1.741	1.00	57.28	O
ATOM	360	C	GLU	74	28.215	49.213	2.662	1.00	57.28	C
ATOM	361	O	GLU	74	27.890	48.209	2.029	1.00	57.28	O
ATOM	362	N	MET	75	27.915	49.369	3.960	1.00	136.72	N
ATOM	363	CA	MET	75	27.133	48.404	4.670	1.00	136.72	C
ATOM	364	CB	MET	75	27.127	48.739	6.179	1.00	136.72	C
ATOM	365	CG	MET	75	26.521	47.696	7.121	1.00	136.72	C
ATOM	366	SD	MET	75	24.752	47.900	7.467	1.00	136.72	S
ATOM	367	CE	MET	75	24.973	49.337	8.556	1.00	136.72	C
ATOM	368	C	MET	75	25.731	48.352	4.121	1.00	136.72	C
ATOM	369	O	MET	75	25.199	47.277	3.848	1.00	136.72	O
ATOM	370	N	THR	76	25.101	49.521	3.904	1.00	126.83	N
ATOM	371	CA	THR	76	23.755	49.558	3.412	1.00	126.83	C
ATOM	372	CB	THR	76	23.102	50.897	3.567	1.00	126.83	C
ATOM	373	OG1	THR	76	21.780	50.846	3.059	1.00	126.83	O
ATOM	374	CG2	THR	76	23.931	51.971	2.864	1.00	126.83	C
ATOM	375	C	THR	76	23.707	49.106	1.994	1.00	126.83	C
ATOM	376	O	THR	76	22.703	48.563	1.544	1.00	126.83	O
ATOM	377	N	ASP	77	24.790	49.336	1.238	1.00	87.43	N
ATOM	378	CA	ASP	77	24.831	48.951	-0.140	1.00	87.43	C
ATOM	379	CB	ASP	77	26.178	49.321	-0.772	1.00	87.43	C
ATOM	380	CG	ASP	77	25.967	49.431	-2.265	1.00	87.43	C
ATOM	381	OD1	ASP	77	24.791	49.323	-2.704	1.00	87.43	O
ATOM	382	OD2	ASP	77	26.980	49.638	-2.986	1.00	87.43	O
ATOM	383	C	ASP	77	24.672	47.460	-0.210	1.00	87.43	C
ATOM	384	O	ASP	77	23.970	46.937	-1.076	1.00	87.43	O
ATOM	385	N	ILE	78	25.321	46.729	0.716	1.00	38.90	N
ATOM	386	CA	ILE	78	25.233	45.297	0.720	1.00	38.90	C
ATOM	387	CB	ILE	78	26.065	44.659	1.795	1.00	38.90	C
ATOM	388	CG1	ILE	78	27.556	44.956	1.572	1.00	38.90	C
ATOM	389	CG2	ILE	78	25.733	43.157	1.820	1.00	38.90	C
ATOM	390	CD1	ILE	78	28.433	44.552	2.756	1.00	38.90	C
ATOM	391	C	ILE	78	23.809	44.921	0.984	1.00	38.90	C
ATOM	392	O	ILE	78	23.272	44.011	0.355	1.00	38.90	O
ATOM	393	N	PHE	79	23.166	45.610	1.946	1.00	68.34	N
ATOM	394	CA	PHE	79	21.801	45.323	2.289	1.00	68.34	C
ATOM	395	CB	PHE	79	21.300	46.072	3.536	1.00	68.34	C
ATOM	396	CG	PHE	79	21.871	45.395	4.734	1.00	68.34	C
ATOM	397	CD1	PHE	79	21.303	44.231	5.196	1.00	68.34	C
ATOM	398	CD2	PHE	79	22.956	45.918	5.399	1.00	68.34	C
ATOM	399	CE1	PHE	79	21.809	43.590	6.301	1.00	68.34	C
ATOM	400	CE2	PHE	79	23.466	45.280	6.505	1.00	68.34	C
ATOM	401	CZ	PHE	79	22.895	44.116	6.958	1.00	68.34	C
ATOM	402	C	PHE	79	20.878	45.664	1.161	1.00	68.34	C
ATOM	403	O	PHE	79	19.928	44.935	0.893	1.00	68.34	O
ATOM	404	N	ALA	80	21.108	46.803	0.492	1.00	44.51	N
ATOM	405	CA	ALA	80	20.258	47.258	-0.570	1.00	44.51	C
ATOM	406	CB	ALA	80	20.654	48.651	-1.092	1.00	44.51	C
ATOM	407	C	ALA	80	20.319	46.305	-1.717	1.00	44.51	C
ATOM	408	O	ALA	80	19.297	46.022	-2.339	1.00	44.51	O
ATOM	409	N	ASN	81	21.519	45.773	-2.021	1.00	110.24	N
ATOM	410	CA	ASN	81	21.633	44.929	-3.173	1.00	110.24	C
ATOM	411	CB	ASN	81	23.051	44.361	-3.360	1.00	110.24	C
ATOM	412	CG	ASN	81	23.130	43.705	-4.734	1.00	110.24	C

ATOM	413	OD1	ASN	81	22.240	42.956	-5.136	1.00110.24	O
ATOM	414	ND2	ASN	81	24.228	43.998	-5.481	1.00110.24	N
ATOM	415	C	ASN	81	20.695	43.768	-3.019	1.00110.24	C
ATOM	416	O	ASN	81	19.978	43.422	-3.956	1.00110.24	O
ATOM	417	N	ALA	82	20.726	43.083	-1.859	1.00 96.65	N
ATOM	418	CA	ALA	82	19.819	41.988	-1.631	1.00 96.65	C
ATOM	419	CB	ALA	82	20.241	41.111	-0.441	1.00 96.65	C
ATOM	420	C	ALA	82	18.423	42.446	-1.360	1.00 96.65	C
ATOM	421	O	ALA	82	17.473	41.910	-1.920	1.00 96.65	O
ATOM	422	N	GLY	83	18.301	43.375	-0.392	1.00135.66	N
ATOM	423	CA	GLY	83	17.162	44.130	0.051	1.00135.66	C
ATOM	424	C	GLY	83	15.901	43.745	-0.643	1.00135.66	C
ATOM	425	O	GLY	83	15.003	43.122	-0.080	1.00135.66	O
ATOM	426	N	ASN	84	15.772	44.285	-1.867	1.00143.29	N
ATOM	427	CA	ASN	84	14.620	44.143	-2.697	1.00143.29	C
ATOM	428	CB	ASN	84	14.595	45.168	-3.843	1.00143.29	C
ATOM	429	CG	ASN	84	14.591	46.557	-3.224	1.00143.29	C
ATOM	430	OD1	ASN	84	14.805	46.713	-2.023	1.00143.29	O
ATOM	431	ND2	ASN	84	14.342	47.597	-4.064	1.00143.29	N
ATOM	432	C	ASN	84	14.515	42.797	-3.335	1.00143.29	C
ATOM	433	O	ASN	84	13.432	42.218	-3.389	1.00143.29	O
ATOM	434	N	LEU	85	15.640	42.264	-3.845	1.00142.35	N
ATOM	435	CA	LEU	85	15.516	41.131	-4.704	1.00142.35	C
ATOM	436	CB	LEU	85	16.850	40.733	-5.359	1.00142.35	C
ATOM	437	CG	LEU	85	17.391	41.792	-6.336	1.00142.35	C
ATOM	438	CD1	LEU	85	17.731	43.104	-5.611	1.00142.35	C
ATOM	439	CD2	LEU	85	18.567	41.242	-7.160	1.00142.35	C
ATOM	440	C	LEU	85	14.966	39.906	-4.063	1.00142.35	C
ATOM	441	O	LEU	85	13.895	39.434	-4.443	1.00142.35	O
ATOM	442	N	GLU	86	15.664	39.382	-3.045	1.00180.54	N
ATOM	443	CA	GLU	86	15.313	38.048	-2.682	1.00180.54	C
ATOM	444	CB	GLU	86	16.383	37.394	-1.786	1.00180.54	C
ATOM	445	CG	GLU	86	16.740	38.207	-0.538	1.00180.54	C
ATOM	446	CD	GLU	86	17.660	37.363	0.332	1.00180.54	C
ATOM	447	OE1	GLU	86	17.804	36.147	0.034	1.00180.54	O
ATOM	448	OE2	GLU	86	18.228	37.922	1.307	1.00180.54	O
ATOM	449	C	GLU	86	14.003	37.840	-2.036	1.00180.54	C
ATOM	450	O	GLU	86	13.016	37.535	-2.707	1.00180.54	O
ATOM	451	N	ASP	87	13.929	38.124	-0.724	1.00211.45	N
ATOM	452	CA	ASP	87	12.698	37.844	-0.072	1.00211.45	C
ATOM	453	CB	ASP	87	12.113	36.448	-0.370	1.00211.45	C
ATOM	454	CG	ASP	87	10.649	36.428	0.065	1.00211.45	C
ATOM	455	OD1	ASP	87	10.357	36.819	1.227	1.00211.45	O
ATOM	456	OD2	ASP	87	9.799	36.009	-0.765	1.00211.45	O
ATOM	457	C	ASP	87	12.869	37.904	1.405	1.00211.45	C
ATOM	458	O	ASP	87	12.753	36.875	2.070	1.00211.45	O
ATOM	459	N	LEU	88	13.189	39.084	1.970	1.00171.26	N
ATOM	460	CA	LEU	88	13.033	39.120	3.390	1.00171.26	C
ATOM	461	CB	LEU	88	13.370	40.493	4.001	1.00171.26	C
ATOM	462	CG	LEU	88	13.222	40.557	5.534	1.00171.26	C
ATOM	463	CD1	LEU	88	11.764	40.363	5.981	1.00171.26	C
ATOM	464	CD2	LEU	88	14.195	39.588	6.225	1.00171.26	C
ATOM	465	C	LEU	88	11.560	38.939	3.408	1.00171.26	C
ATOM	466	O	LEU	88	10.980	38.168	4.170	1.00171.26	O
ATOM	467	N	MET	89	10.960	39.695	2.475	1.00225.15	N
ATOM	468	CA	MET	89	9.615	39.623	2.011	1.00225.15	C
ATOM	469	CB	MET	89	8.626	40.475	2.826	1.00225.15	C
ATOM	470	CG	MET	89	8.285	39.890	4.198	1.00225.15	C
ATOM	471	SD	MET	89	7.268	38.383	4.129	1.00225.15	S
ATOM	472	CE	MET	89	6.941	38.315	5.914	1.00225.15	C
ATOM	473	C	MET	89	9.733	40.251	0.662	1.00225.15	C
ATOM	474	O	MET	89	9.002	41.187	0.344	1.00225.15	O
ATOM	475	N	SER	90	10.648	39.732	-0.186	1.00162.64	N
ATOM	476	CA	SER	90	10.868	40.408	-1.424	1.00162.64	C
ATOM	477	CB	SER	90	12.184	40.117	-2.137	1.00162.64	C
ATOM	478	OG	SER	90	13.267	40.619	-1.368	1.00162.64	O
ATOM	479	C	SER	90	9.757	40.181	-2.377	1.00162.64	C
ATOM	480	O	SER	90	8.899	39.321	-2.192	1.00162.64	O
ATOM	481	N	ASN	91	9.755	41.020	-3.427	1.00 93.65	N
ATOM	482	CA	ASN	91	8.723	41.020	-4.409	1.00 93.65	C
ATOM	483	CB	ASN	91	8.850	42.183	-5.409	1.00 93.65	C
ATOM	484	CG	ASN	91	7.556	42.250	-6.208	1.00 93.65	C
ATOM	485	OD1	ASN	91	7.194	41.306	-6.908	1.00 93.65	O
ATOM	486	ND2	ASN	91	6.830	43.395	-6.092	1.00 93.65	N

ATOM	487	C	ASN	91	8.719	39.742	-5.184	1.00	93.65	C
ATOM	488	O	ASN	91	7.662	39.147	-5.388	1.00	93.65	O
ATOM	489	N	ILE	92	9.901	39.266	-5.623	1.00	132.51	N
ATOM	490	CA	ILE	92	9.922	38.079	-6.426	1.00	132.51	C
ATOM	491	CB	ILE	92	10.624	38.279	-7.747	1.00	132.51	C
ATOM	492	CG1	ILE	92	10.352	37.120	-8.726	1.00	132.51	C
ATOM	493	CG2	ILE	92	12.114	38.533	-7.464	1.00	132.51	C
ATOM	494	CD1	ILE	92	10.921	35.768	-8.297	1.00	132.51	C
ATOM	495	C	ILE	92	10.627	37.021	-5.650	1.00	132.51	C
ATOM	496	O	ILE	92	11.692	37.250	-5.077	1.00	132.51	O
ATOM	497	N	THR	93	10.018	35.822	-5.592	1.00	38.99	N
ATOM	498	CA	THR	93	10.631	34.759	-4.863	1.00	38.99	C
ATOM	499	CB	THR	93	9.670	34.060	-3.946	1.00	38.99	C
ATOM	500	OG1	THR	93	9.103	34.990	-3.034	1.00	38.99	O
ATOM	501	CG2	THR	93	10.424	32.966	-3.173	1.00	38.99	C
ATOM	502	C	THR	93	11.111	33.764	-5.865	1.00	38.99	C
ATOM	503	O	THR	93	10.320	33.009	-6.430	1.00	38.99	O
ATOM	504	N	ASN	94	12.434	33.744	-6.121	1.00	38.49	N
ATOM	505	CA	ASN	94	12.950	32.798	-7.061	1.00	38.49	C
ATOM	506	CB	ASN	94	14.463	32.944	-7.294	1.00	38.49	C
ATOM	507	CG	ASN	94	14.687	34.256	-8.035	1.00	38.49	C
ATOM	508	OD1	ASN	94	13.737	34.921	-8.446	1.00	38.49	O
ATOM	509	ND2	ASN	94	15.979	34.637	-8.220	1.00	38.49	N
ATOM	510	C	ASN	94	12.687	31.455	-6.479	1.00	38.49	C
ATOM	511	O	ASN	94	12.180	30.557	-7.148	1.00	38.49	O
ATOM	512	N	ARG	95	13.018	31.283	-5.189	1.00	149.78	N
ATOM	513	CA	ARG	95	12.696	30.039	-4.575	1.00	149.78	C
ATOM	514	CB	ARG	95	13.759	28.954	-4.765	1.00	149.78	C
ATOM	515	CG	ARG	95	13.298	27.556	-4.350	1.00	149.78	C
ATOM	516	CD	ARG	95	12.427	26.862	-5.400	1.00	149.78	C
ATOM	517	NE	ARG	95	13.326	26.007	-6.227	1.00	149.78	N
ATOM	518	CZ	ARG	95	13.980	26.529	-7.306	1.00	149.78	C
ATOM	519	NH1	ARG	95	13.814	27.842	-7.638	1.00	149.78	N
ATOM	520	NH2	ARG	95	14.805	25.737	-8.051	1.00	149.78	N
ATOM	521	C	ARG	95	12.568	30.301	-3.122	1.00	149.78	C
ATOM	522	O	ARG	95	12.992	31.343	-2.624	1.00	149.78	O
ATOM	523	N	SER	96	11.931	29.365	-2.407	1.00	223.52	N
ATOM	524	CA	SER	96	11.880	29.494	-0.989	1.00	223.52	C
ATOM	525	CB	SER	96	10.613	28.908	-0.349	1.00	223.52	C
ATOM	526	OG	SER	96	9.476	29.639	-0.777	1.00	223.52	O
ATOM	527	C	SER	96	13.015	28.634	-0.577	1.00	223.52	C
ATOM	528	O	SER	96	13.381	27.736	-1.319	1.00	223.52	O
ATOM	529	N	ASP	97	13.661	28.910	0.561	1.00	244.81	N
ATOM	530	CA	ASP	97	14.696	28.018	1.005	1.00	244.81	C
ATOM	531	CB	ASP	97	14.270	26.539	0.979	1.00	244.81	C
ATOM	532	CG	ASP	97	15.410	25.714	1.552	1.00	244.81	C
ATOM	533	OD1	ASP	97	16.169	26.261	2.396	1.00	244.81	O
ATOM	534	OD2	ASP	97	15.547	24.529	1.144	1.00	244.81	O
ATOM	535	C	ASP	97	15.975	28.136	0.216	1.00	244.81	C
ATOM	536	O	ASP	97	16.981	28.586	0.756	1.00	244.81	O
ATOM	537	N	ILE	98	15.991	27.702	-1.064	1.00	173.21	N
ATOM	538	CA	ILE	98	17.191	27.676	-1.860	1.00	173.21	C
ATOM	539	CB	ILE	98	17.032	26.975	-3.187	1.00	173.21	C
ATOM	540	CG1	ILE	98	18.367	26.395	-3.693	1.00	173.21	C
ATOM	541	CG2	ILE	98	16.461	27.985	-4.183	1.00	173.21	C
ATOM	542	CD1	ILE	98	19.418	27.433	-4.080	1.00	173.21	C
ATOM	543	C	ILE	98	17.662	29.080	-2.091	1.00	173.21	C
ATOM	544	O	ILE	98	18.859	29.323	-2.183	1.00	173.21	O
ATOM	545	N	ASN	99	16.724	30.032	-2.255	1.00	56.34	N
ATOM	546	CA	ASN	99	17.004	31.425	-2.475	1.00	56.34	C
ATOM	547	CB	ASN	99	15.731	32.216	-2.833	1.00	56.34	C
ATOM	548	CG	ASN	99	16.118	33.544	-3.470	1.00	56.34	C
ATOM	549	OD1	ASN	99	17.187	34.093	-3.212	1.00	56.34	O
ATOM	550	ND2	ASN	99	15.216	34.081	-4.336	1.00	56.34	N
ATOM	551	C	ASN	99	17.596	32.028	-1.233	1.00	56.34	C
ATOM	552	O	ASN	99	18.410	32.948	-1.307	1.00	56.34	O
ATOM	553	N	ASP	100	17.183	31.537	-0.049	1.00	50.89	N
ATOM	554	CA	ASP	100	17.644	32.101	1.190	1.00	50.89	C
ATOM	555	CB	ASP	100	17.057	31.375	2.411	1.00	50.89	C
ATOM	556	CG	ASP	100	15.557	31.634	2.431	1.00	50.89	C
ATOM	557	OD1	ASP	100	15.092	32.481	1.623	1.00	50.89	O
ATOM	558	OD2	ASP	100	14.856	30.987	3.255	1.00	50.89	O
ATOM	559	C	ASP	100	19.138	31.993	1.279	1.00	50.89	C
ATOM	560	O	ASP	100	19.807	32.986	1.563	1.00	50.89	O

ATOM	561	N	THR	101	19.708	30.797	1.012	1.00	59.38	N
ATOM	562	CA	THR	101	21.131	30.638	1.140	1.00	59.38	C
ATOM	563	CB	THR	101	21.600	29.278	0.713	1.00	59.38	C
ATOM	564	OG1	THR	101	20.970	28.273	1.493	1.00	59.38	O
ATOM	565	CG2	THR	101	23.126	29.207	0.883	1.00	59.38	C
ATOM	566	C	THR	101	21.767	31.629	0.229	1.00	59.38	C
ATOM	567	O	THR	101	22.568	32.442	0.683	1.00	59.38	O
ATOM	568	N	GLY	102	21.445	31.519	-1.077	1.00	104.05	N
ATOM	569	CA	GLY	102	21.713	32.423	-2.163	1.00	104.05	C
ATOM	570	C	GLY	102	22.253	33.732	-1.683	1.00	104.05	C
ATOM	571	O	GLY	102	23.461	33.935	-1.564	1.00	104.05	O
ATOM	572	N	PHE	103	21.304	34.660	-1.433	1.00	79.02	N
ATOM	573	CA	PHE	103	21.517	36.020	-1.031	1.00	79.02	C
ATOM	574	CB	PHE	103	20.229	36.865	-1.034	1.00	79.02	C
ATOM	575	CG	PHE	103	19.834	37.134	-2.447	1.00	79.02	C
ATOM	576	CD1	PHE	103	19.106	36.215	-3.167	1.00	79.02	C
ATOM	577	CD2	PHE	103	20.188	38.319	-3.051	1.00	79.02	C
ATOM	578	CE1	PHE	103	18.743	36.473	-4.469	1.00	79.02	C
ATOM	579	CE2	PHE	103	19.828	38.583	-4.352	1.00	79.02	C
ATOM	580	CZ	PHE	103	19.104	37.658	-5.064	1.00	79.02	C
ATOM	581	C	PHE	103	22.118	36.143	0.340	1.00	79.02	C
ATOM	582	O	PHE	103	22.989	36.981	0.553	1.00	79.02	O
ATOM	583	N	PHE	104	21.663	35.341	1.319	1.00	72.53	N
ATOM	584	CA	PHE	104	22.132	35.482	2.674	1.00	72.53	C
ATOM	585	CB	PHE	104	21.311	34.679	3.699	1.00	72.53	C
ATOM	586	CG	PHE	104	20.000	35.388	3.805	1.00	72.53	C
ATOM	587	CD1	PHE	104	19.940	36.632	4.389	1.00	72.53	C
ATOM	588	CD2	PHE	104	18.834	34.821	3.345	1.00	72.53	C
ATOM	589	CE1	PHE	104	18.744	37.302	4.499	1.00	72.53	C
ATOM	590	CE2	PHE	104	17.634	35.484	3.452	1.00	72.53	C
ATOM	591	CZ	PHE	104	17.587	36.730	4.029	1.00	72.53	C
ATOM	592	C	PHE	104	23.585	35.135	2.794	1.00	72.53	C
ATOM	593	O	PHE	104	24.313	35.734	3.585	1.00	72.53	O
ATOM	594	N	MET	105	24.048	34.141	2.023	1.00	64.53	N
ATOM	595	CA	MET	105	25.419	33.727	2.064	1.00	64.53	C
ATOM	596	CB	MET	105	25.711	32.551	1.115	1.00	64.53	C
ATOM	597	CG	MET	105	27.165	32.076	1.151	1.00	64.53	C
ATOM	598	SD	MET	105	27.526	30.684	0.038	1.00	64.53	S
ATOM	599	CE	MET	105	29.282	30.570	0.486	1.00	64.53	C
ATOM	600	C	MET	105	26.258	34.883	1.622	1.00	64.53	C
ATOM	601	O	MET	105	27.371	35.066	2.112	1.00	64.53	O
ATOM	602	N	ASN	106	25.758	35.678	0.656	1.00	51.06	N
ATOM	603	CA	ASN	106	26.506	36.796	0.159	1.00	51.06	C
ATOM	604	CB	ASN	106	25.794	37.522	-0.997	1.00	51.06	C
ATOM	605	CG	ASN	106	25.746	36.587	-2.198	1.00	51.06	C
ATOM	606	OD1	ASN	106	24.683	36.338	-2.764	1.00	51.06	O
ATOM	607	ND2	ASN	106	26.931	36.056	-2.603	1.00	51.06	N
ATOM	608	C	ASN	106	26.699	37.805	1.256	1.00	51.06	C
ATOM	609	O	ASN	106	27.807	38.299	1.462	1.00	51.06	O
ATOM	610	N	LEU	107	25.626	38.137	2.001	1.00	95.20	N
ATOM	611	CA	LEU	107	25.736	39.122	3.043	1.00	95.20	C
ATOM	612	CB	LEU	107	24.401	39.498	3.710	1.00	95.20	C
ATOM	613	CG	LEU	107	23.459	40.323	2.816	1.00	95.20	C
ATOM	614	CD1	LEU	107	22.942	39.507	1.625	1.00	95.20	C
ATOM	615	CD2	LEU	107	22.335	40.957	3.644	1.00	95.20	C
ATOM	616	C	LEU	107	26.631	38.626	4.130	1.00	95.20	C
ATOM	617	O	LEU	107	27.390	39.392	4.721	1.00	95.20	O
ATOM	618	N	GLU	108	26.573	37.318	4.421	1.00	76.66	N
ATOM	619	CA	GLU	108	27.334	36.796	5.513	1.00	76.66	C
ATOM	620	CB	GLU	108	27.179	35.274	5.665	1.00	76.66	C
ATOM	621	CG	GLU	108	27.604	34.775	7.043	1.00	76.66	C
ATOM	622	CD	GLU	108	26.556	35.285	8.021	1.00	76.66	C
ATOM	623	OE1	GLU	108	25.580	35.928	7.550	1.00	76.66	O
ATOM	624	OE2	GLU	108	26.715	35.046	9.247	1.00	76.66	O
ATOM	625	C	GLU	108	28.777	37.088	5.258	1.00	76.66	C
ATOM	626	O	GLU	108	29.519	37.425	6.178	1.00	76.66	O
ATOM	627	N	GLU	109	29.220	36.940	3.998	1.00	39.18	N
ATOM	628	CA	GLU	109	30.587	37.199	3.655	1.00	39.18	C
ATOM	629	CB	GLU	109	30.912	36.750	2.220	1.00	39.18	C
ATOM	630	CG	GLU	109	30.795	35.236	2.023	1.00	39.18	C
ATOM	631	CD	GLU	109	31.066	34.921	0.558	1.00	39.18	C
ATOM	632	OE1	GLU	109	31.323	35.880	-0.217	1.00	39.18	O
ATOM	633	OE2	GLU	109	31.017	33.715	0.195	1.00	39.18	O
ATOM	634	C	GLU	109	30.889	38.667	3.748	1.00	39.18	C

ATOM	635	O	GLU	109	31.905	39.053	4.321	1.00	39.18	O
ATOM	636	N	ASP	110	30.009	39.524	3.185	1.00	45.65	N
ATOM	637	CA	ASP	110	30.241	40.944	3.124	1.00	45.65	C
ATOM	638	CB	ASP	110	29.200	41.686	2.266	1.00	45.65	C
ATOM	639	CG	ASP	110	29.422	41.305	0.809	1.00	45.65	C
ATOM	640	OD1	ASP	110	30.457	40.646	0.520	1.00	45.65	O
ATOM	641	OD2	ASP	110	28.562	41.671	-0.036	1.00	45.65	O
ATOM	642	C	ASP	110	30.203	41.568	4.483	1.00	45.65	C
ATOM	643	O	ASP	110	31.026	42.422	4.808	1.00	45.65	O
ATOM	644	N	MET	111	29.238	41.151	5.314	1.00	172.58	N
ATOM	645	CA	MET	111	29.000	41.732	6.601	1.00	172.58	C
ATOM	646	CB	MET	111	27.677	41.261	7.216	1.00	172.58	C
ATOM	647	CG	MET	111	27.145	42.252	8.245	1.00	172.58	C
ATOM	648	SD	MET	111	26.774	43.889	7.540	1.00	172.58	S
ATOM	649	CE	MET	111	25.633	43.257	6.280	1.00	172.58	C
ATOM	650	C	MET	111	30.130	41.446	7.536	1.00	172.58	C
ATOM	651	O	MET	111	30.371	42.202	8.476	1.00	172.58	O
ATOM	652	N	THR	112	30.822	40.313	7.339	1.00	45.73	N
ATOM	653	CA	THR	112	31.910	39.967	8.203	1.00	45.73	C
ATOM	654	CB	THR	112	32.506	38.638	7.844	1.00	45.73	C
ATOM	655	OG1	THR	112	31.507	37.630	7.911	1.00	45.73	O
ATOM	656	CG2	THR	112	33.634	38.312	8.833	1.00	45.73	C
ATOM	657	C	THR	112	32.971	41.029	8.108	1.00	45.73	C
ATOM	658	O	THR	112	33.492	41.479	9.127	1.00	45.73	O
ATOM	659	N	ARG	113	33.305	41.488	6.884	1.00	118.27	N
ATOM	660	CA	ARG	113	34.356	42.460	6.732	1.00	118.27	C
ATOM	661	CB	ARG	113	34.593	42.904	5.275	1.00	118.27	C
ATOM	662	CG	ARG	113	34.963	41.803	4.278	1.00	118.27	C
ATOM	663	CD	ARG	113	33.759	40.999	3.785	1.00	118.27	C
ATOM	664	NE	ARG	113	34.199	40.210	2.599	1.00	118.27	N
ATOM	665	CZ	ARG	113	34.776	38.984	2.758	1.00	118.27	C
ATOM	666	NH1	ARG	113	34.949	38.466	4.008	1.00	118.27	N
ATOM	667	NH2	ARG	113	35.182	38.277	1.662	1.00	118.27	N
ATOM	668	C	ARG	113	33.971	43.715	7.450	1.00	118.27	C
ATOM	669	O	ARG	113	34.756	44.266	8.219	1.00	118.27	O
ATOM	670	N	TYR	114	32.717	44.162	7.254	1.00	119.30	N
ATOM	671	CA	TYR	114	32.231	45.402	7.787	1.00	119.30	C
ATOM	672	CB	TYR	114	30.751	45.627	7.439	1.00	119.30	C
ATOM	673	CG	TYR	114	30.674	45.967	5.989	1.00	119.30	C
ATOM	674	CD1	TYR	114	31.223	45.140	5.038	1.00	119.30	C
ATOM	675	CD2	TYR	114	30.013	47.097	5.574	1.00	119.30	C
ATOM	676	CE1	TYR	114	31.146	45.445	3.699	1.00	119.30	C
ATOM	677	CE2	TYR	114	29.932	47.408	4.239	1.00	119.30	C
ATOM	678	CZ	TYR	114	30.498	46.586	3.297	1.00	119.30	C
ATOM	679	OH	TYR	114	30.412	46.908	1.926	1.00	119.30	O
ATOM	680	C	TYR	114	32.360	45.379	9.277	1.00	119.30	C
ATOM	681	O	TYR	114	32.676	46.401	9.885	1.00	119.30	O
ATOM	682	N	ALA	115	32.062	44.229	9.911	1.00	41.57	N
ATOM	683	CA	ALA	115	32.188	44.104	11.337	1.00	41.57	C
ATOM	684	CB	ALA	115	31.664	42.758	11.873	1.00	41.57	C
ATOM	685	C	ALA	115	33.631	44.215	11.731	1.00	41.57	C
ATOM	686	O	ALA	115	33.968	44.891	12.702	1.00	41.57	O
ATOM	687	N	TYR	116	34.531	43.560	10.972	1.00	57.81	N
ATOM	688	CA	TYR	116	35.933	43.613	11.285	1.00	57.81	C
ATOM	689	CB	TYR	116	36.838	42.792	10.346	1.00	57.81	C
ATOM	690	CG	TYR	116	36.790	41.353	10.731	1.00	57.81	C
ATOM	691	CD1	TYR	116	35.771	40.530	10.317	1.00	57.81	C
ATOM	692	CD2	TYR	116	37.791	40.822	11.512	1.00	57.81	C
ATOM	693	CE1	TYR	116	35.751	39.204	10.680	1.00	57.81	C
ATOM	694	CE2	TYR	116	37.777	39.498	11.879	1.00	57.81	C
ATOM	695	CZ	TYR	116	36.752	38.685	11.463	1.00	57.81	C
ATOM	696	OH	TYR	116	36.729	37.323	11.834	1.00	57.81	O
ATOM	697	C	TYR	116	36.381	45.032	11.185	1.00	57.81	C
ATOM	698	O	TYR	116	37.209	45.484	11.973	1.00	57.81	O
ATOM	699	N	TYR	117	35.860	45.771	10.190	1.00	113.23	N
ATOM	700	CA	TYR	117	36.280	47.131	10.024	1.00	113.23	C
ATOM	701	CB	TYR	117	35.621	47.881	8.843	1.00	113.23	C
ATOM	702	CG	TYR	117	36.135	47.409	7.523	1.00	113.23	C
ATOM	703	CD1	TYR	117	37.312	47.908	7.017	1.00	113.23	C
ATOM	704	CD2	TYR	117	35.445	46.481	6.782	1.00	113.23	C
ATOM	705	CE1	TYR	117	37.793	47.482	5.801	1.00	113.23	C
ATOM	706	CE2	TYR	117	35.916	46.048	5.565	1.00	113.23	C
ATOM	707	CZ	TYR	117	37.095	46.550	5.071	1.00	113.23	C
ATOM	708	OH	TYR	117	37.586	46.112	3.823	1.00	113.23	O

ATOM	709	C	TYR	117	35.913	47.942	11.232	1.00113.23
ATOM	710	O	TYR	117	36.740	48.693	11.747	1.00113.23
ATOM	711	N	TYR	118	34.670	47.796	11.738	1.00 76.41
ATOM	712	CA	TYR	118	34.215	48.657	12.798	1.00 76.41
ATOM	713	CB	TYR	118	32.767	48.387	13.261	1.00 76.41
ATOM	714	CG	TYR	118	31.781	48.771	12.204	1.00 76.41
ATOM	715	CD1	TYR	118	31.612	50.089	11.846	1.00 76.41
ATOM	716	CD2	TYR	118	30.989	47.820	11.600	1.00 76.41
ATOM	717	CE1	TYR	118	30.693	50.446	10.885	1.00 76.41
ATOM	718	CE2	TYR	118	30.068	48.170	10.639	1.00 76.41
ATOM	719	CZ	TYR	118	29.919	49.487	10.276	1.00 76.41
ATOM	720	OH	TYR	118	28.976	49.851	9.291	1.00 76.41
ATOM	721	C	TYR	118	35.076	48.506	14.013	1.00 76.41
ATOM	722	O	TYR	118	35.451	49.489	14.651	1.00 76.41
ATOM	723	N	SER	119	35.406	47.259	14.376	1.00 79.88
ATOM	724	CA	SER	119	36.192	46.996	15.547	1.00 79.88
ATOM	725	CB	SER	119	36.370	45.489	15.766	1.00 79.88
ATOM	726	OG	SER	119	37.312	45.266	16.799	1.00 79.88
ATOM	727	C	SER	119	37.562	47.582	15.390	1.00 79.88
ATOM	728	O	SER	119	38.165	48.047	16.358	1.00 79.88
ATOM	729	N	GLY	120	38.090	47.589	14.156	1.00 28.17
ATOM	730	CA	GLY	120	39.436	48.033	13.935	1.00 28.17
ATOM	731	C	GLY	120	39.594	49.469	14.334	1.00 28.17
ATOM	732	O	GLY	120	40.630	49.856	14.873	1.00 28.17
ATOM	733	N	ILE	121	38.581	50.307	14.049	1.00 94.54
ATOM	734	CA	ILE	121	38.684	51.714	14.326	1.00 94.54
ATOM	735	CB	ILE	121	37.502	52.479	13.804	1.00 94.54
ATOM	736	CG1	ILE	121	37.374	52.276	12.286	1.00 94.54
ATOM	737	CG2	ILE	121	37.669	53.953	14.209	1.00 94.54
ATOM	738	CD1	ILE	121	38.607	52.730	11.506	1.00 94.54
ATOM	739	C	ILE	121	38.765	51.958	15.805	1.00 94.54
ATOM	740	O	ILE	121	39.616	52.714	16.275	1.00 94.54
ATOM	741	N	GLY	122	37.897	51.291	16.586	1.00 30.90
ATOM	742	CA	GLY	122	37.839	51.533	18.000	1.00 30.90
ATOM	743	C	GLY	122	39.159	51.211	18.616	1.00 30.90
ATOM	744	O	GLY	122	39.585	51.878	19.558	1.00 30.90
ATOM	745	N	ALA	123	39.817	50.141	18.136	1.00 29.75
ATOM	746	CA	ALA	123	41.090	49.774	18.684	1.00 29.75
ATOM	747	CB	ALA	123	41.641	48.470	18.082	1.00 29.75
ATOM	748	C	ALA	123	42.084	50.858	18.396	1.00 29.75
ATOM	749	O	ALA	123	42.862	51.250	19.266	1.00 29.75
ATOM	750	N	GLY	124	42.078	51.378	17.154	1.00 25.78
ATOM	751	CA	GLY	124	43.016	52.392	16.758	1.00 25.78
ATOM	752	C	GLY	124	42.768	53.646	17.537	1.00 25.78
ATOM	753	O	GLY	124	43.700	54.356	17.912	1.00 25.78
ATOM	754	N	VAL	125	41.484	53.962	17.774	1.00 48.29
ATOM	755	CA	VAL	125	41.123	55.162	18.472	1.00 48.29
ATOM	756	CB	VAL	125	39.636	55.341	18.576	1.00 48.29
ATOM	757	CG1	VAL	125	39.346	56.516	19.522	1.00 48.29
ATOM	758	CG2	VAL	125	39.072	55.539	17.159	1.00 48.29
ATOM	759	C	VAL	125	41.670	55.119	19.863	1.00 48.29
ATOM	760	O	VAL	125	42.186	56.115	20.372	1.00 48.29
ATOM	761	N	LEU	126	41.600	53.942	20.505	1.00 54.59
ATOM	762	CA	LEU	126	41.991	53.833	21.879	1.00 54.59
ATOM	763	CB	LEU	126	41.896	52.381	22.378	1.00 54.59
ATOM	764	CG	LEU	126	42.294	52.190	23.851	1.00 54.59
ATOM	765	CD1	LEU	126	41.252	52.817	24.791	1.00 54.59
ATOM	766	CD2	LEU	126	42.581	50.714	24.165	1.00 54.59
ATOM	767	C	LEU	126	43.421	54.255	22.007	1.00 54.59
ATOM	768	O	LEU	126	43.766	55.043	22.887	1.00 54.59
ATOM	769	N	VAL	127	44.302	53.739	21.131	1.00 99.01
ATOM	770	CA	VAL	127	45.687	54.095	21.235	1.00 99.01
ATOM	771	CB	VAL	127	46.567	53.283	20.323	1.00 99.01
ATOM	772	CG1	VAL	127	46.127	53.492	18.864	1.00 99.01
ATOM	773	CG2	VAL	127	48.030	53.673	20.591	1.00 99.01
ATOM	774	C	VAL	127	45.886	55.552	20.924	1.00 99.01
ATOM	775	O	VAL	127	46.519	56.279	21.688	1.00 99.01
ATOM	776	N	ALA	128	45.309	56.024	19.803	1.00 41.32
ATOM	777	CA	ALA	128	45.538	57.364	19.333	1.00 41.32
ATOM	778	CB	ALA	128	44.860	57.637	17.980	1.00 41.32
ATOM	779	C	ALA	128	45.014	58.377	20.302	1.00 41.32
ATOM	780	O	ALA	128	45.676	59.370	20.603	1.00 41.32
ATOM	781	N	ALA	129	43.813	58.128	20.844	1.00 49.05
ATOM	782	CA	ALA	129	43.157	59.066	21.710	1.00 49.05

ATOM	783	CB	ALA	129	41.789	58.560	22.199	1.00	49.05	C
ATOM	784	C	ALA	129	44.010	59.312	22.917	1.00	49.05	C
ATOM	785	O	ALA	129	44.011	60.410	23.471	1.00	49.05	O
ATOM	786	N	TYR	130	44.718	58.276	23.398	1.00	60.01	N
ATOM	787	CA	TYR	130	45.559	58.440	24.551	1.00	60.01	C
ATOM	788	CB	TYR	130	46.183	57.108	25.002	1.00	60.01	C
ATOM	789	CG	TYR	130	47.092	57.368	26.154	1.00	60.01	C
ATOM	790	CD1	TYR	130	46.591	57.530	27.425	1.00	60.01	C
ATOM	791	CD2	TYR	130	48.453	57.437	25.960	1.00	60.01	C
ATOM	792	CE1	TYR	130	47.436	57.765	28.485	1.00	60.01	C
ATOM	793	CE2	TYR	130	49.302	57.671	27.016	1.00	60.01	C
ATOM	794	CZ	TYR	130	48.793	57.836	28.280	1.00	60.01	C
ATOM	795	OH	TYR	130	49.661	58.076	29.366	1.00	60.01	O
ATOM	796	C	TYR	130	46.683	59.390	24.246	1.00	60.01	C
ATOM	797	O	TYR	130	46.965	60.311	25.011	1.00	60.01	O
ATOM	798	N	ILE	131	47.344	59.207	23.091	1.00	72.14	N
ATOM	799	CA	ILE	131	48.491	60.006	22.759	1.00	72.14	C
ATOM	800	CB	ILE	131	49.179	59.555	21.506	1.00	72.14	C
ATOM	801	CG1	ILE	131	49.752	58.149	21.728	1.00	72.14	C
ATOM	802	CG2	ILE	131	50.244	60.598	21.123	1.00	72.14	C
ATOM	803	CD1	ILE	131	50.308	57.516	20.460	1.00	72.14	C
ATOM	804	C	ILE	131	48.107	61.441	22.606	1.00	72.14	C
ATOM	805	O	ILE	131	48.872	62.335	22.968	1.00	72.14	O
ATOM	806	N	GLN	132	46.918	61.711	22.038	1.00	131.81	N
ATOM	807	CA	GLN	132	46.586	63.079	21.772	1.00	131.81	C
ATOM	808	CB	GLN	132	45.243	63.244	21.041	1.00	131.81	C
ATOM	809	CG	GLN	132	44.031	62.826	21.872	1.00	131.81	C
ATOM	810	CD	GLN	132	42.789	63.046	21.026	1.00	131.81	C
ATOM	811	OE1	GLN	132	42.146	62.087	20.599	1.00	131.81	O
ATOM	812	NE2	GLN	132	42.438	64.335	20.774	1.00	131.81	N
ATOM	813	C	GLN	132	46.512	63.895	23.035	1.00	131.81	C
ATOM	814	O	GLN	132	47.149	64.943	23.130	1.00	131.81	O
ATOM	815	N	VAL	133	45.741	63.440	24.041	1.00	69.29	N
ATOM	816	CA	VAL	133	45.536	64.199	25.252	1.00	69.29	C
ATOM	817	CB	VAL	133	44.432	63.619	26.090	1.00	69.29	C
ATOM	818	CG1	VAL	133	44.292	64.456	27.373	1.00	69.29	C
ATOM	819	CG2	VAL	133	43.150	63.534	25.240	1.00	69.29	C
ATOM	820	C	VAL	133	46.770	64.225	26.103	1.00	69.29	C
ATOM	821	O	VAL	133	47.157	65.258	26.650	1.00	69.29	O
ATOM	822	N	SER	134	47.417	63.058	26.233	1.00	102.47	N
ATOM	823	CA	SER	134	48.545	62.878	27.101	1.00	102.47	C
ATOM	824	CB	SER	134	49.082	61.448	26.966	1.00	102.47	C
ATOM	825	OG	SER	134	50.383	61.362	27.515	1.00	102.47	O
ATOM	826	C	SER	134	49.672	63.805	26.748	1.00	102.47	C
ATOM	827	O	SER	134	50.132	64.595	27.573	1.00	102.47	O
ATOM	828	N	PHE	135	50.132	63.742	25.488	1.00	87.02	N
ATOM	829	CA	PHE	135	51.296	64.471	25.066	1.00	87.02	C
ATOM	830	CB	PHE	135	51.715	64.140	23.622	1.00	87.02	C
ATOM	831	CG	PHE	135	52.327	62.780	23.618	1.00	87.02	C
ATOM	832	CD1	PHE	135	51.552	61.658	23.790	1.00	87.02	C
ATOM	833	CD2	PHE	135	53.680	62.624	23.422	1.00	87.02	C
ATOM	834	CE1	PHE	135	52.120	60.405	23.779	1.00	87.02	C
ATOM	835	CE2	PHE	135	54.253	61.374	23.409	1.00	87.02	C
ATOM	836	CZ	PHE	135	53.472	60.259	23.590	1.00	87.02	C
ATOM	837	C	PHE	135	51.090	65.950	25.150	1.00	87.02	C
ATOM	838	O	PHE	135	52.011	66.684	25.507	1.00	87.02	O
ATOM	839	N	TRP	136	49.900	66.443	24.766	1.00	85.51	N
ATOM	840	CA	TRP	136	49.683	67.864	24.782	1.00	85.51	C
ATOM	841	CB	TRP	136	48.408	68.300	24.042	1.00	85.51	C
ATOM	842	CG	TRP	136	48.579	68.243	22.544	1.00	85.51	C
ATOM	843	CD2	TRP	136	49.190	69.297	21.783	1.00	85.51	C
ATOM	844	CD1	TRP	136	48.257	67.260	21.654	1.00	85.51	C
ATOM	845	NE1	TRP	136	48.635	67.635	20.385	1.00	85.51	N
ATOM	846	CE2	TRP	136	49.211	68.887	20.452	1.00	85.51	C
ATOM	847	CE3	TRP	136	49.699	70.505	22.167	1.00	85.51	C
ATOM	848	CZ2	TRP	136	49.743	69.685	19.478	1.00	85.51	C
ATOM	849	CZ3	TRP	136	50.229	71.309	21.182	1.00	85.51	C
ATOM	850	CH2	TRP	136	50.252	70.906	19.864	1.00	85.51	C
ATOM	851	C	TRP	136	49.661	68.415	26.178	1.00	85.51	C
ATOM	852	O	TRP	136	50.242	69.466	26.450	1.00	85.51	O
ATOM	853	N	CYS	137	48.984	67.724	27.109	1.00	50.74	N
ATOM	854	CA	CYS	137	48.893	68.207	28.460	1.00	50.74	C
ATOM	855	CB	CYS	137	47.995	67.325	29.344	1.00	50.74	C
ATOM	856	SG	CYS	137	47.882	67.934	31.054	1.00	50.74	S

ATOM	857	C	CYS	137	50.263	68.215	29.077	1.00	50.74	C
ATOM	858	O	CYS	137	50.574	69.060	29.916	1.00	50.74	O
ATOM	859	N	LEU	138	51.106	67.234	28.707	1.00	131.89	N
ATOM	860	CA	LEU	138	52.429	67.120	29.260	1.00	131.89	C
ATOM	861	CB	LEU	138	53.128	65.843	28.733	1.00	131.89	C
ATOM	862	CG	LEU	138	54.533	65.507	29.290	1.00	131.89	C
ATOM	863	CD1	LEU	138	55.597	66.541	28.902	1.00	131.89	C
ATOM	864	CD2	LEU	138	54.494	65.233	30.796	1.00	131.89	C
ATOM	865	C	LEU	138	53.250	68.308	28.844	1.00	131.89	C
ATOM	866	O	LEU	138	53.900	68.953	29.668	1.00	131.89	O
ATOM	867	N	ALA	139	53.211	68.652	27.543	1.00	55.12	N
ATOM	868	CA	ALA	139	54.042	69.710	27.038	1.00	55.12	C
ATOM	869	CB	ALA	139	53.866	69.931	25.526	1.00	55.12	C
ATOM	870	C	ALA	139	53.667	70.978	27.727	1.00	55.12	C
ATOM	871	O	ALA	139	54.518	71.796	28.069	1.00	55.12	O
ATOM	872	N	ALA	140	52.359	71.172	27.935	1.00	68.19	N
ATOM	873	CA	ALA	140	51.839	72.350	28.561	1.00	68.19	C
ATOM	874	CB	ALA	140	50.309	72.290	28.645	1.00	68.19	C
ATOM	875	C	ALA	140	52.334	72.459	29.977	1.00	68.19	C
ATOM	876	O	ALA	140	52.745	73.525	30.437	1.00	68.19	O
ATOM	877	N	GLY	141	52.327	71.338	30.711	1.00	45.86	N
ATOM	878	CA	GLY	141	52.642	71.385	32.112	1.00	45.86	C
ATOM	879	C	GLY	141	54.041	71.864	32.328	1.00	45.86	C
ATOM	880	O	GLY	141	54.300	72.665	33.228	1.00	45.86	O
ATOM	881	N	ARG	142	54.984	71.378	31.504	1.00	154.53	N
ATOM	882	CA	ARG	142	56.356	71.723	31.720	1.00	154.53	C
ATOM	883	CB	ARG	142	57.339	70.950	30.817	1.00	154.53	C
ATOM	884	CG	ARG	142	57.240	69.433	31.019	1.00	154.53	C
ATOM	885	CD	ARG	142	58.555	68.663	30.853	1.00	154.53	C
ATOM	886	NE	ARG	142	59.094	68.895	29.486	1.00	154.53	N
ATOM	887	CZ	ARG	142	60.384	68.541	29.216	1.00	154.53	C
ATOM	888	NH1	ARG	142	61.150	67.972	30.192	1.00	154.53	N
ATOM	889	NH2	ARG	142	60.911	68.756	27.975	1.00	154.53	N
ATOM	890	C	ARG	142	56.535	73.193	31.511	1.00	154.53	C
ATOM	891	O	ARG	142	57.329	73.830	32.200	1.00	154.53	O
ATOM	892	N	GLN	143	55.831	73.773	30.524	1.00	158.03	N
ATOM	893	CA	GLN	143	55.982	75.180	30.285	1.00	158.03	C
ATOM	894	CB	GLN	143	55.510	75.602	28.877	1.00	158.03	C
ATOM	895	CG	GLN	143	54.069	75.257	28.514	1.00	158.03	C
ATOM	896	CD	GLN	143	53.923	75.499	27.015	1.00	158.03	C
ATOM	897	OE1	GLN	143	53.562	74.598	26.258	1.00	158.03	O
ATOM	898	NE2	GLN	143	54.225	76.747	26.568	1.00	158.03	N
ATOM	899	C	GLN	143	55.371	76.033	31.372	1.00	158.03	C
ATOM	900	O	GLN	143	55.948	77.037	31.792	1.00	158.03	O
ATOM	901	N	ILE	144	54.202	75.643	31.907	1.00	134.54	N
ATOM	902	CA	ILE	144	53.550	76.475	32.891	1.00	134.54	C
ATOM	903	CB	ILE	144	52.237	75.919	33.373	1.00	134.54	C
ATOM	904	CG1	ILE	144	51.227	75.835	32.216	1.00	134.54	C
ATOM	905	CG2	ILE	144	51.750	76.801	34.541	1.00	134.54	C
ATOM	906	CD1	ILE	144	50.872	77.197	31.620	1.00	134.54	C
ATOM	907	C	ILE	144	54.421	76.649	34.102	1.00	134.54	C
ATOM	908	O	ILE	144	54.487	77.730	34.692	1.00	134.54	O
ATOM	909	N	HIS	145	55.122	75.580	34.509	1.00	82.07	N
ATOM	910	CA	HIS	145	55.886	75.642	35.722	1.00	82.07	C
ATOM	911	ND1	HIS	145	56.335	73.999	38.491	1.00	82.07	N
ATOM	912	CG	HIS	145	57.143	74.165	37.389	1.00	82.07	C
ATOM	913	CB	HIS	145	56.622	74.315	35.990	1.00	82.07	C
ATOM	914	NE2	HIS	145	58.431	73.945	39.229	1.00	82.07	N
ATOM	915	CD2	HIS	145	58.421	74.129	37.857	1.00	82.07	C
ATOM	916	CE1	HIS	145	57.155	73.873	39.564	1.00	82.07	C
ATOM	917	C	HIS	145	56.886	76.752	35.599	1.00	82.07	C
ATOM	918	O	HIS	145	57.076	77.536	36.530	1.00	82.07	O
ATOM	919	N	LYS	146	57.549	76.854	34.432	1.00	74.58	N
ATOM	920	CA	LYS	146	58.552	77.861	34.230	1.00	74.58	C
ATOM	921	CB	LYS	146	59.283	77.663	32.894	1.00	74.58	C
ATOM	922	CG	LYS	146	60.039	76.332	32.851	1.00	74.58	C
ATOM	923	CD	LYS	146	60.444	75.878	31.448	1.00	74.58	C
ATOM	924	CE	LYS	146	61.147	74.519	31.430	1.00	74.58	C
ATOM	925	NZ	LYS	146	61.349	74.069	30.035	1.00	74.58	N
ATOM	926	C	LYS	146	57.933	79.229	34.257	1.00	74.58	C
ATOM	927	O	LYS	146	58.480	80.167	34.839	1.00	74.58	O
ATOM	928	N	ILE	147	56.756	79.388	33.630	1.00	200.60	N
ATOM	929	CA	ILE	147	56.176	80.701	33.585	1.00	200.60	C
ATOM	930	CB	ILE	147	55.058	80.847	32.580	1.00	200.60	C

ATOM	931	CG1	ILE	147	53.890	79.890	32.829	1.00200.60	C
ATOM	932	CG2	ILE	147	55.676	80.692	31.187	1.00200.60	C
ATOM	933	CD1	ILE	147	52.975	80.331	33.960	1.00200.60	C
ATOM	934	C	ILE	147	55.792	81.205	34.952	1.00200.60	C
ATOM	935	O	ILE	147	55.943	82.390	35.255	1.00200.60	O
ATOM	936	N	ARG	148	55.292	80.324	35.835	1.00180.01	N
ATOM	937	CA	ARG	148	54.830	80.777	37.123	1.00180.01	C
ATOM	938	CB	ARG	148	54.361	79.616	38.019	1.00180.01	C
ATOM	939	CG	ARG	148	53.272	78.735	37.404	1.00180.01	C
ATOM	940	CD	ARG	148	51.883	79.368	37.396	1.00180.01	C
ATOM	941	NE	ARG	148	51.503	79.654	38.805	1.00180.01	N
ATOM	942	CZ	ARG	148	50.191	79.846	39.122	1.00180.01	C
ATOM	943	NH1	ARG	148	49.227	79.693	38.170	1.00180.01	N
ATOM	944	NH2	ARG	148	49.841	80.192	40.393	1.00180.01	N
ATOM	945	C	ARG	148	55.940	81.450	37.887	1.00180.01	C
ATOM	946	O	ARG	148	55.763	82.551	38.414	1.00180.01	O
ATOM	947	N	LYS	149	57.124	80.812	37.986	1.00186.26	N
ATOM	948	CA	LYS	149	58.153	81.430	38.782	1.00186.26	C
ATOM	949	CB	LYS	149	59.394	80.557	39.070	1.00186.26	C
ATOM	950	CG	LYS	149	60.203	80.113	37.851	1.00186.26	C
ATOM	951	CD	LYS	149	59.569	78.975	37.053	1.00186.26	C
ATOM	952	CE	LYS	149	59.915	77.596	37.620	1.00186.26	C
ATOM	953	NZ	LYS	149	59.596	76.542	36.632	1.00186.26	N
ATOM	954	C	LYS	149	58.627	82.691	38.141	1.00186.26	C
ATOM	955	O	LYS	149	58.836	83.698	38.819	1.00186.26	O
ATOM	956	N	GLN	150	58.794	82.678	36.806	1.00114.36	N
ATOM	957	CA	GLN	150	59.315	83.858	36.178	1.00114.36	C
ATOM	958	CB	GLN	150	59.531	83.689	34.664	1.00114.36	C
ATOM	959	CG	GLN	150	60.683	82.741	34.325	1.00114.36	C
ATOM	960	CD	GLN	150	61.981	83.445	34.696	1.00114.36	C
ATOM	961	OE1	GLN	150	63.046	82.831	34.741	1.00114.36	O
ATOM	962	NE2	GLN	150	61.893	84.774	34.971	1.00114.36	N
ATOM	963	C	GLN	150	58.355	84.987	36.387	1.00114.36	C
ATOM	964	O	GLN	150	58.758	86.131	36.592	1.00114.36	O
ATOM	965	N	PHE	151	57.047	84.691	36.312	1.00102.94	N
ATOM	966	CA	PHE	151	56.039	85.705	36.440	1.00102.94	C
ATOM	967	CB	PHE	151	54.657	85.180	36.010	1.00102.94	C
ATOM	968	CG	PHE	151	53.649	86.259	36.189	1.00102.94	C
ATOM	969	CD1	PHE	151	53.857	87.512	35.658	1.00102.94	C
ATOM	970	CD2	PHE	151	52.469	85.994	36.847	1.00102.94	C
ATOM	971	CE1	PHE	151	52.911	88.497	35.815	1.00102.94	C
ATOM	972	CE2	PHE	151	51.521	86.976	37.005	1.00102.94	C
ATOM	973	CZ	PHE	151	51.743	88.231	36.492	1.00102.94	C
ATOM	974	C	PHE	151	55.970	86.272	37.835	1.00102.94	C
ATOM	975	O	PHE	151	55.866	87.485	38.012	1.00102.94	O
ATOM	976	N	PHE	152	56.025	85.418	38.874	1.00 92.15	N
ATOM	977	CA	PHE	152	55.878	85.895	40.226	1.00 92.15	C
ATOM	978	CB	PHE	152	55.825	84.742	41.245	1.00 92.15	C
ATOM	979	CG	PHE	152	55.673	85.332	42.606	1.00 92.15	C
ATOM	980	CD1	PHE	152	54.441	85.761	43.042	1.00 92.15	C
ATOM	981	CD2	PHE	152	56.755	85.444	43.449	1.00 92.15	C
ATOM	982	CE1	PHE	152	54.292	86.302	44.296	1.00 92.15	C
ATOM	983	CE2	PHE	152	56.612	85.984	44.705	1.00 92.15	C
ATOM	984	CZ	PHE	152	55.378	86.415	45.130	1.00 92.15	C
ATOM	985	C	PHE	152	57.002	86.811	40.625	1.00 92.15	C
ATOM	986	O	PHE	152	56.765	87.868	41.209	1.00 92.15	O
ATOM	987	N	HIS	153	58.263	86.443	40.324	1.00 97.41	N
ATOM	988	CA	HIS	153	59.369	87.275	40.731	1.00 97.41	C
ATOM	989	ND1	HIS	153	62.322	87.818	42.082	1.00 97.41	N
ATOM	990	CG	HIS	153	61.876	87.605	40.795	1.00 97.41	C
ATOM	991	CB	HIS	153	60.753	86.683	40.411	1.00 97.41	C
ATOM	992	NE2	HIS	153	63.566	89.101	40.757	1.00 97.41	N
ATOM	993	CD2	HIS	153	62.647	88.397	40.001	1.00 97.41	C
ATOM	994	CE1	HIS	153	63.333	88.720	42.001	1.00 97.41	C
ATOM	995	C	HIS	153	59.263	88.594	40.050	1.00 97.41	C
ATOM	996	O	HIS	153	59.639	89.627	40.607	1.00 97.41	O
ATOM	997	N	ALA	154	58.754	88.590	38.809	1.00 56.52	N
ATOM	998	CA	ALA	154	58.662	89.824	38.085	1.00 56.52	C
ATOM	999	CB	ALA	154	58.085	89.638	36.670	1.00 56.52	C
ATOM	1000	C	ALA	154	57.759	90.769	38.823	1.00 56.52	C
ATOM	1001	O	ALA	154	58.078	91.950	38.950	1.00 56.52	O
ATOM	1002	N	ILE	155	56.615	90.278	39.349	1.00 85.67	N
ATOM	1003	CA	ILE	155	55.692	91.159	40.019	1.00 85.67	C
ATOM	1004	CB	ILE	155	54.377	90.527	40.398	1.00 85.67	C

ATOM	1005	CG1	ILE	155	53.597	90.113	39.137	1.00	85.67	C
ATOM	1006	CG2	ILE	155	53.593	91.531	41.262	1.00	85.67	C
ATOM	1007	CD1	ILE	155	52.319	89.330	39.440	1.00	85.67	C
ATOM	1008	C	ILE	155	56.326	91.721	41.257	1.00	85.67	C
ATOM	1009	O	ILE	155	56.116	92.882	41.600	1.00	85.67	O
ATOM	1010	N	MET	156	57.119	90.906	41.969	1.00	187.90	N
ATOM	1011	CA	MET	156	57.711	91.293	43.218	1.00	187.90	C
ATOM	1012	CB	MET	156	58.439	90.105	43.865	1.00	187.90	C
ATOM	1013	CG	MET	156	58.415	90.173	45.384	1.00	187.90	C
ATOM	1014	SD	MET	156	56.753	89.910	46.076	1.00	187.90	S
ATOM	1015	CE	MET	156	57.146	90.635	47.691	1.00	187.90	C
ATOM	1016	C	MET	156	58.689	92.425	43.018	1.00	187.90	C
ATOM	1017	O	MET	156	58.905	93.227	43.925	1.00	187.90	O
ATOM	1018	N	ARG	157	59.368	92.461	41.855	1.00	116.23	N
ATOM	1019	CA	ARG	157	60.352	93.455	41.496	1.00	116.23	C
ATOM	1020	CB	ARG	157	61.234	93.025	40.309	1.00	116.23	C
ATOM	1021	CG	ARG	157	62.335	94.036	39.979	1.00	116.23	C
ATOM	1022	CD	ARG	157	63.273	93.589	38.854	1.00	116.23	C
ATOM	1023	NE	ARG	157	64.278	94.671	38.652	1.00	116.23	N
ATOM	1024	CZ	ARG	157	65.448	94.407	37.998	1.00	116.23	C
ATOM	1025	NH1	ARG	157	65.710	93.145	37.550	1.00	116.23	N
ATOM	1026	NH2	ARG	157	66.354	95.406	37.789	1.00	116.23	N
ATOM	1027	C	ARG	157	59.761	94.804	41.152	1.00	116.23	C
ATOM	1028	O	ARG	157	60.454	95.815	41.241	1.00	116.23	O
ATOM	1029	N	GLN	158	58.490	94.863	40.708	1.00	72.37	N
ATOM	1030	CA	GLN	158	57.894	96.070	40.179	1.00	72.37	C
ATOM	1031	CB	GLN	158	56.453	95.858	39.687	1.00	72.37	C
ATOM	1032	CG	GLN	158	56.335	94.800	38.587	1.00	72.37	C
ATOM	1033	CD	GLN	158	57.041	95.319	37.343	1.00	72.37	C
ATOM	1034	OE1	GLN	158	57.086	96.522	37.093	1.00	72.37	O
ATOM	1035	NE2	GLN	158	57.613	94.383	36.538	1.00	72.37	N
ATOM	1036	C	GLN	158	57.859	97.194	41.175	1.00	72.37	C
ATOM	1037	O	GLN	158	57.941	96.998	42.387	1.00	72.37	O
ATOM	1038	N	GLU	159	57.765	98.436	40.649	1.00	130.70	N
ATOM	1039	CA	GLU	159	57.692	99.607	41.476	1.00	130.70	C
ATOM	1040	CB	GLU	159	58.273	100.887	40.841	1.00	130.70	C
ATOM	1041	CG	GLU	159	57.712	101.277	39.477	1.00	130.70	C
ATOM	1042	CD	GLU	159	58.535	102.459	38.981	1.00	130.70	C
ATOM	1043	OE1	GLU	159	59.629	102.701	39.558	1.00	130.70	O
ATOM	1044	OE2	GLU	159	58.082	103.134	38.019	1.00	130.70	O
ATOM	1045	C	GLU	159	56.280	99.801	41.936	1.00	130.70	C
ATOM	1046	O	GLU	159	55.375	99.057	41.563	1.00	130.70	O
ATOM	1047	N	ILE	160	56.101	100.741	42.880	1.00	142.25	N
ATOM	1048	CA	ILE	160	54.840	101.061	43.478	1.00	142.25	C
ATOM	1049	CB	ILE	160	55.028	101.903	44.696	1.00	142.25	C
ATOM	1050	CG1	ILE	160	56.071	101.218	45.595	1.00	142.25	C
ATOM	1051	CG2	ILE	160	53.659	102.073	45.379	1.00	142.25	C
ATOM	1052	CD1	ILE	160	55.709	99.783	45.973	1.00	142.25	C
ATOM	1053	C	ILE	160	53.956	101.778	42.501	1.00	142.25	C
ATOM	1054	O	ILE	160	52.746	101.568	42.494	1.00	142.25	O
ATOM	1055	N	GLY	161	54.532	102.679	41.678	1.00	46.00	N
ATOM	1056	CA	GLY	161	53.786	103.411	40.690	1.00	46.00	C
ATOM	1057	C	GLY	161	53.215	102.424	39.732	1.00	46.00	C
ATOM	1058	O	GLY	161	52.158	102.650	39.146	1.00	46.00	O
ATOM	1059	N	TRP	162	53.937	101.314	39.513	1.00	66.03	N
ATOM	1060	CA	TRP	162	53.496	100.298	38.608	1.00	66.03	C
ATOM	1061	CB	TRP	162	54.514	99.150	38.494	1.00	66.03	C
ATOM	1062	CG	TRP	162	54.174	98.110	37.457	1.00	66.03	C
ATOM	1063	CD2	TRP	162	53.450	96.903	37.731	1.00	66.03	C
ATOM	1064	CD1	TRP	162	54.471	98.090	36.125	1.00	66.03	C
ATOM	1065	NE1	TRP	162	53.977	96.944	35.552	1.00	66.03	N
ATOM	1066	CE2	TRP	162	53.347	96.203	36.530	1.00	66.03	C
ATOM	1067	CE3	TRP	162	52.918	96.416	38.890	1.00	66.03	C
ATOM	1068	CZ2	TRP	162	52.704	95.000	36.470	1.00	66.03	C
ATOM	1069	CZ3	TRP	162	52.269	95.203	38.826	1.00	66.03	C
ATOM	1070	CH2	TRP	162	52.166	94.510	37.639	1.00	66.03	C
ATOM	1071	C	TRP	162	52.198	99.747	39.119	1.00	66.03	C
ATOM	1072	O	TRP	162	51.268	99.512	38.350	1.00	66.03	O
ATOM	1073	N	PHE	163	52.106	99.536	40.445	1.00	88.41	N
ATOM	1074	CA	PHE	163	50.920	99.033	41.081	1.00	88.41	C
ATOM	1075	CB	PHE	163	51.106	98.690	42.571	1.00	88.41	C
ATOM	1076	CG	PHE	163	51.733	97.339	42.639	1.00	88.41	C
ATOM	1077	CD1	PHE	163	53.095	97.168	42.533	1.00	88.41	C
ATOM	1078	CD2	PHE	163	50.934	96.231	42.809	1.00	88.41	C

ATOM	1079	CE1	PHE	163	53.643	95.908	42.597	1.00	88.41	C
ATOM	1080	CE2	PHE	163	51.475	94.970	42.873	1.00	88.41	C
ATOM	1081	CZ	PHE	163	52.835	94.808	42.767	1.00	88.41	C
ATOM	1082	C	PHE	163	49.804	100.028	40.961	1.00	88.41	C
ATOM	1083	O	PHE	163	48.639	99.645	40.937	1.00	88.41	O
ATOM	1084	N	ASP	164	50.107	101.337	40.930	1.00	75.32	N
ATOM	1085	CA	ASP	164	49.056	102.320	40.884	1.00	75.32	C
ATOM	1086	CB	ASP	164	49.578	103.765	40.842	1.00	75.32	C
ATOM	1087	CG	ASP	164	50.134	104.139	42.202	1.00	75.32	C
ATOM	1088	OD1	ASP	164	50.113	103.277	43.120	1.00	75.32	O
ATOM	1089	OD2	ASP	164	50.579	105.310	42.336	1.00	75.32	O
ATOM	1090	C	ASP	164	48.209	102.189	39.652	1.00	75.32	C
ATOM	1091	O	ASP	164	46.985	102.270	39.730	1.00	75.32	O
ATOM	1092	N	VAL	165	48.838	102.017	38.476	1.00	109.56	N
ATOM	1093	CA	VAL	165	48.115	101.999	37.236	1.00	109.56	C
ATOM	1094	CB	VAL	165	49.034	101.929	36.055	1.00	109.56	C
ATOM	1095	CG1	VAL	165	48.183	101.904	34.779	1.00	109.56	C
ATOM	1096	CG2	VAL	165	50.021	103.103	36.128	1.00	109.56	C
ATOM	1097	C	VAL	165	47.217	100.810	37.156	1.00	109.56	C
ATOM	1098	O	VAL	165	46.050	100.915	36.776	1.00	109.56	O
ATOM	1099	N	HIS	166	47.750	99.639	37.524	1.00	74.03	N
ATOM	1100	CA	HIS	166	47.024	98.420	37.346	1.00	74.03	C
ATOM	1101	ND1	HIS	166	50.148	97.795	36.219	1.00	74.03	N
ATOM	1102	CG	HIS	166	48.916	97.181	36.178	1.00	74.03	C
ATOM	1103	CB	HIS	166	47.936	97.178	37.316	1.00	74.03	C
ATOM	1104	NE2	HIS	166	49.966	96.870	34.205	1.00	74.03	N
ATOM	1105	CD2	HIS	166	48.821	96.620	34.941	1.00	74.03	C
ATOM	1106	CE1	HIS	166	50.733	97.578	35.014	1.00	74.03	C
ATOM	1107	C	HIS	166	46.013	98.197	38.431	1.00	74.03	C
ATOM	1108	O	HIS	166	46.183	98.613	39.576	1.00	74.03	O
ATOM	1109	N	ASP	167	44.904	97.514	38.069	1.00	60.72	N
ATOM	1110	CA	ASP	167	43.908	97.152	39.034	1.00	60.72	C
ATOM	1111	CB	ASP	167	42.541	96.834	38.404	1.00	60.72	C
ATOM	1112	CG	ASP	167	41.527	96.631	39.519	1.00	60.72	C
ATOM	1113	OD1	ASP	167	41.886	96.870	40.703	1.00	60.72	O
ATOM	1114	OD2	ASP	167	40.377	96.230	39.197	1.00	60.72	O
ATOM	1115	C	ASP	167	44.426	95.899	39.665	1.00	60.72	C
ATOM	1116	O	ASP	167	44.759	94.941	38.974	1.00	60.72	O
ATOM	1117	N	VAL	168	44.537	95.890	41.004	1.00	125.33	N
ATOM	1118	CA	VAL	168	45.122	94.797	41.729	1.00	125.33	C
ATOM	1119	CB	VAL	168	45.306	95.122	43.179	1.00	125.33	C
ATOM	1120	CG1	VAL	168	45.927	93.902	43.863	1.00	125.33	C
ATOM	1121	CG2	VAL	168	46.150	96.403	43.296	1.00	125.33	C
ATOM	1122	C	VAL	168	44.260	93.577	41.637	1.00	125.33	C
ATOM	1123	O	VAL	168	44.767	92.459	41.568	1.00	125.33	O
ATOM	1124	N	GLY	169	42.927	93.751	41.636	1.00	35.12	N
ATOM	1125	CA	GLY	169	42.070	92.604	41.647	1.00	35.12	C
ATOM	1126	C	GLY	169	42.348	91.779	40.430	1.00	35.12	C
ATOM	1127	O	GLY	169	42.431	90.555	40.513	1.00	35.12	O
ATOM	1128	N	GLU	170	42.487	92.430	39.262	1.00	62.75	N
ATOM	1129	CA	GLU	170	42.750	91.738	38.034	1.00	62.75	C
ATOM	1130	CB	GLU	170	42.619	92.642	36.791	1.00	62.75	C
ATOM	1131	CG	GLU	170	43.586	93.826	36.765	1.00	62.75	C
ATOM	1132	CD	GLU	170	43.238	94.701	35.569	1.00	62.75	C
ATOM	1133	OE1	GLU	170	42.337	94.303	34.784	1.00	62.75	O
ATOM	1134	OE2	GLU	170	43.868	95.783	35.427	1.00	62.75	O
ATOM	1135	C	GLU	170	44.131	91.127	38.054	1.00	62.75	C
ATOM	1136	O	GLU	170	44.320	90.044	37.510	1.00	62.75	O
ATOM	1137	N	LEU	171	45.143	91.783	38.666	1.00	207.54	N
ATOM	1138	CA	LEU	171	46.495	91.254	38.677	1.00	207.54	C
ATOM	1139	CB	LEU	171	47.557	92.064	39.458	1.00	207.54	C
ATOM	1140	CG	LEU	171	48.297	93.205	38.741	1.00	207.54	C
ATOM	1141	CD1	LEU	171	49.043	92.690	37.500	1.00	207.54	C
ATOM	1142	CD2	LEU	171	47.410	94.423	38.492	1.00	207.54	C
ATOM	1143	C	LEU	171	46.566	89.946	39.387	1.00	207.54	C
ATOM	1144	O	LEU	171	47.282	89.048	38.951	1.00	207.54	O
ATOM	1145	N	ASN	172	45.881	89.832	40.538	1.00	74.45	N
ATOM	1146	CA	ASN	172	45.946	88.641	41.339	1.00	74.45	C
ATOM	1147	CB	ASN	172	45.170	88.778	42.659	1.00	74.45	C
ATOM	1148	CG	ASN	172	45.537	87.606	43.558	1.00	74.45	C
ATOM	1149	OD1	ASN	172	46.434	86.822	43.250	1.00	74.45	O
ATOM	1150	ND2	ASN	172	44.816	87.479	44.704	1.00	74.45	N
ATOM	1151	C	ASN	172	45.319	87.543	40.565	1.00	74.45	C
ATOM	1152	O	ASN	172	45.823	86.421	40.524	1.00	74.45	O

ATOM	1153	N	THR	173	44.183	87.856	39.925	1.00	70.00	N
ATOM	1154	CA	THR	173	43.524	86.884	39.124	1.00	70.00	C
ATOM	1155	CB	THR	173	42.188	87.330	38.594	1.00	70.00	C
ATOM	1156	OG1	THR	173	42.331	88.425	37.706	1.00	70.00	O
ATOM	1157	CG2	THR	173	41.300	87.728	39.786	1.00	70.00	C
ATOM	1158	C	THR	173	44.439	86.608	37.976	1.00	70.00	C
ATOM	1159	O	THR	173	44.471	85.495	37.485	1.00	70.00	O
ATOM	1160	N	ARG	174	45.237	87.599	37.537	1.00	174.22	N
ATOM	1161	CA	ARG	174	46.122	87.516	36.400	1.00	174.22	C
ATOM	1162	CB	ARG	174	46.946	88.809	36.240	1.00	174.22	C
ATOM	1163	CG	ARG	174	47.594	89.025	34.872	1.00	174.22	C
ATOM	1164	CD	ARG	174	46.689	89.770	33.888	1.00	174.22	C
ATOM	1165	NE	ARG	174	46.761	91.216	34.249	1.00	174.22	N
ATOM	1166	CZ	ARG	174	46.371	92.176	33.360	1.00	174.22	C
ATOM	1167	NH1	ARG	174	45.885	91.820	32.135	1.00	174.22	N
ATOM	1168	NH2	ARG	174	46.468	93.495	33.697	1.00	174.22	N
ATOM	1169	C	ARG	174	47.131	86.421	36.619	1.00	174.22	C
ATOM	1170	O	ARG	174	47.591	85.786	35.672	1.00	174.22	O
ATOM	1171	N	LEU	175	47.562	86.214	37.873	1.00	162.89	N
ATOM	1172	CA	LEU	175	48.570	85.237	38.174	1.00	162.89	C
ATOM	1173	CB	LEU	175	48.964	85.308	39.667	1.00	162.89	C
ATOM	1174	CG	LEU	175	50.283	84.616	40.087	1.00	162.89	C
ATOM	1175	CD1	LEU	175	50.331	83.134	39.710	1.00	162.89	C
ATOM	1176	CD2	LEU	175	51.512	85.401	39.610	1.00	162.89	C
ATOM	1177	C	LEU	175	48.044	83.849	37.903	1.00	162.89	C
ATOM	1178	O	LEU	175	48.799	82.995	37.445	1.00	162.89	O
ATOM	1179	N	THR	176	46.792	83.553	38.330	1.00	107.31	N
ATOM	1180	CA	THR	176	46.128	82.280	38.149	1.00	107.31	C
ATOM	1181	CB	THR	176	45.178	81.989	39.271	1.00	107.31	C
ATOM	1182	OG1	THR	176	44.128	82.945	39.290	1.00	107.31	O
ATOM	1183	CG2	THR	176	45.962	82.046	40.593	1.00	107.31	C
ATOM	1184	C	THR	176	45.354	82.106	36.872	1.00	107.31	C
ATOM	1185	O	THR	176	45.360	81.024	36.297	1.00	107.31	O
ATOM	1186	N	ASP	177	44.567	83.134	36.496	1.00	90.74	N
ATOM	1187	CA	ASP	177	43.665	83.226	35.376	1.00	90.74	C
ATOM	1188	CB	ASP	177	42.660	84.383	35.506	1.00	90.74	C
ATOM	1189	CG	ASP	177	41.647	83.995	36.573	1.00	90.74	C
ATOM	1190	OD1	ASP	177	41.792	82.885	37.150	1.00	90.74	O
ATOM	1191	OD2	ASP	177	40.708	84.799	36.818	1.00	90.74	O
ATOM	1192	C	ASP	177	44.353	83.390	34.059	1.00	90.74	C
ATOM	1193	O	ASP	177	43.987	82.707	33.111	1.00	90.74	O
ATOM	1194	N	ASP	178	45.319	84.325	33.930	1.00	79.23	N
ATOM	1195	CA	ASP	178	46.019	84.491	32.685	1.00	79.23	C
ATOM	1196	CB	ASP	178	46.908	85.742	32.609	1.00	79.23	C
ATOM	1197	CG	ASP	178	46.007	86.923	32.287	1.00	79.23	C
ATOM	1198	OD1	ASP	178	44.766	86.795	32.467	1.00	79.23	O
ATOM	1199	OD2	ASP	178	46.550	87.964	31.830	1.00	79.23	O
ATOM	1200	C	ASP	178	46.884	83.296	32.490	1.00	79.23	C
ATOM	1201	O	ASP	178	47.055	82.820	31.371	1.00	79.23	O
ATOM	1202	N	VAL	179	47.483	82.801	33.589	1.00	146.47	N
ATOM	1203	CA	VAL	179	48.283	81.620	33.495	1.00	146.47	C
ATOM	1204	CB	VAL	179	49.045	81.236	34.735	1.00	146.47	C
ATOM	1205	CG1	VAL	179	50.050	82.341	35.088	1.00	146.47	C
ATOM	1206	CG2	VAL	179	48.056	80.901	35.849	1.00	146.47	C
ATOM	1207	C	VAL	179	47.372	80.480	33.151	1.00	146.47	C
ATOM	1208	O	VAL	179	47.755	79.587	32.403	1.00	146.47	O
ATOM	1209	N	SER	180	46.145	80.451	33.712	1.00	68.37	N
ATOM	1210	CA	SER	180	45.220	79.399	33.393	1.00	68.37	C
ATOM	1211	CB	SER	180	43.946	79.389	34.257	1.00	68.37	C
ATOM	1212	OG	SER	180	44.222	78.845	35.539	1.00	68.37	O
ATOM	1213	C	SER	180	44.792	79.566	31.965	1.00	68.37	C
ATOM	1214	O	SER	180	44.502	78.594	31.273	1.00	68.37	O
ATOM	1215	N	LYS	181	44.743	80.824	31.497	1.00	118.73	N
ATOM	1216	CA	LYS	181	44.293	81.205	30.196	1.00	118.73	C
ATOM	1217	CB	LYS	181	44.239	82.737	30.062	1.00	118.73	C
ATOM	1218	CG	LYS	181	43.305	83.264	28.973	1.00	118.73	C
ATOM	1219	CD	LYS	181	42.945	84.736	29.197	1.00	118.73	C
ATOM	1220	CE	LYS	181	41.953	85.311	28.186	1.00	118.73	C
ATOM	1221	NZ	LYS	181	42.659	85.702	26.948	1.00	118.73	N
ATOM	1222	C	LYS	181	45.237	80.647	29.183	1.00	118.73	C
ATOM	1223	O	LYS	181	44.798	80.133	28.162	1.00	118.73	O
ATOM	1224	N	ILE	182	46.559	80.743	29.431	1.00	78.77	N
ATOM	1225	CA	ILE	182	47.560	80.221	28.545	1.00	78.77	C
ATOM	1226	CB	ILE	182	48.970	80.630	28.891	1.00	78.77	C

ATOM	1227	CG1	ILE	182	49.929	80.249	27.752	1.00	78.77	C
ATOM	1228	CG2	ILE	182	49.366	80.006	30.235	1.00	78.77	C
ATOM	1229	CD1	ILE	182	51.329	80.842	27.913	1.00	78.77	C
ATOM	1230	C	ILE	182	47.500	78.722	28.546	1.00	78.77	C
ATOM	1231	O	ILE	182	47.657	78.079	27.510	1.00	78.77	O
ATOM	1232	N	ASN	183	47.261	78.128	29.729	1.00	73.94	N
ATOM	1233	CA	ASN	183	47.278	76.707	29.931	1.00	73.94	C
ATOM	1234	CB	ASN	183	46.967	76.316	31.388	1.00	73.94	C
ATOM	1235	CG	ASN	183	47.415	74.879	31.615	1.00	73.94	C
ATOM	1236	OD1	ASN	183	47.302	74.030	30.733	1.00	73.94	O
ATOM	1237	ND2	ASN	183	47.947	74.597	32.834	1.00	73.94	N
ATOM	1238	C	ASN	183	46.252	76.072	29.044	1.00	73.94	C
ATOM	1239	O	ASN	183	46.470	74.979	28.528	1.00	73.94	O
ATOM	1240	N	GLU	184	45.097	76.730	28.845	1.00	149.50	N
ATOM	1241	CA	GLU	184	44.059	76.126	28.062	1.00	149.50	C
ATOM	1242	CB	GLU	184	42.758	76.942	28.080	1.00	149.50	C
ATOM	1243	CG	GLU	184	41.556	76.138	27.590	1.00	149.50	C
ATOM	1244	CD	GLU	184	41.281	75.066	28.635	1.00	149.50	C
ATOM	1245	OE1	GLU	184	40.761	75.422	29.726	1.00	149.50	O
ATOM	1246	OE2	GLU	184	41.597	73.878	28.361	1.00	149.50	O
ATOM	1247	C	GLU	184	44.486	75.967	26.621	1.00	149.50	C
ATOM	1248	O	GLU	184	44.245	74.942	25.993	1.00	149.50	O
ATOM	1249	N	VAL	185	45.127	77.008	26.079	1.00	203.74	N
ATOM	1250	CA	VAL	185	45.576	77.267	24.736	1.00	203.74	C
ATOM	1251	CB	VAL	185	46.092	78.598	24.809	1.00	203.74	C
ATOM	1252	CG1	VAL	185	46.634	79.111	23.467	1.00	203.74	C
ATOM	1253	CG2	VAL	185	44.982	79.304	25.585	1.00	203.74	C
ATOM	1254	C	VAL	185	46.723	76.447	24.255	1.00	203.74	C
ATOM	1255	O	VAL	185	47.014	76.446	23.063	1.00	203.74	O
ATOM	1256	N	ILE	186	47.592	76.056	25.186	1.00	213.51	N
ATOM	1257	CA	ILE	186	48.706	75.185	25.018	1.00	213.51	C
ATOM	1258	CB	ILE	186	49.930	75.694	25.743	1.00	213.51	C
ATOM	1259	CG1	ILE	186	49.626	76.085	27.201	1.00	213.51	C
ATOM	1260	CG2	ILE	186	50.470	76.875	24.914	1.00	213.51	C
ATOM	1261	CD1	ILE	186	49.198	74.954	28.118	1.00	213.51	C
ATOM	1262	C	ILE	186	48.460	73.705	25.195	1.00	213.51	C
ATOM	1263	O	ILE	186	49.263	72.900	24.727	1.00	213.51	O
ATOM	1264	N	GLY	187	47.411	73.293	25.941	1.00	75.14	N
ATOM	1265	CA	GLY	187	47.233	71.907	26.325	1.00	75.14	C
ATOM	1266	C	GLY	187	46.518	71.099	25.276	1.00	75.14	C
ATOM	1267	O	GLY	187	46.825	71.164	24.087	1.00	75.14	O
ATOM	1268	N	ASP	188	45.555	70.275	25.736	1.00	148.56	N
ATOM	1269	CA	ASP	188	44.797	69.339	24.953	1.00	148.56	C
ATOM	1270	CB	ASP	188	43.827	68.540	25.836	1.00	148.56	C
ATOM	1271	CG	ASP	188	43.245	67.415	25.008	1.00	148.56	C
ATOM	1272	OD1	ASP	188	42.464	67.707	24.065	1.00	148.56	O
ATOM	1273	OD2	ASP	188	43.584	66.240	25.304	1.00	148.56	O
ATOM	1274	C	ASP	188	44.003	70.064	23.901	1.00	148.56	C
ATOM	1275	O	ASP	188	43.723	69.522	22.834	1.00	148.56	O
ATOM	1276	N	LYS	189	43.650	71.332	24.158	1.00	131.46	N
ATOM	1277	CA	LYS	189	42.804	72.104	23.288	1.00	131.46	C
ATOM	1278	CB	LYS	189	42.652	73.564	23.751	1.00	131.46	C
ATOM	1279	CG	LYS	189	41.852	73.718	25.045	1.00	131.46	C
ATOM	1280	CD	LYS	189	40.405	73.236	24.924	1.00	131.46	C
ATOM	1281	CE	LYS	189	39.597	73.387	26.213	1.00	131.46	C
ATOM	1282	NZ	LYS	189	38.216	72.898	26.006	1.00	131.46	N
ATOM	1283	C	LYS	189	43.367	72.140	21.899	1.00	131.46	C
ATOM	1284	O	LYS	189	42.609	72.287	20.944	1.00	131.46	O
ATOM	1285	N	ILE	190	44.705	72.111	21.746	1.00	105.17	N
ATOM	1286	CA	ILE	190	45.315	72.072	20.443	1.00	105.17	C
ATOM	1287	CB	ILE	190	46.806	72.244	20.475	1.00	105.17	C
ATOM	1288	CG1	ILE	190	47.181	73.619	21.052	1.00	105.17	C
ATOM	1289	CG2	ILE	190	47.329	72.033	19.045	1.00	105.17	C
ATOM	1290	CD1	ILE	190	46.855	73.767	22.535	1.00	105.17	C
ATOM	1291	C	ILE	190	45.031	70.730	19.815	1.00	105.17	C
ATOM	1292	O	ILE	190	44.746	70.634	18.622	1.00	105.17	O
ATOM	1293	N	GLY	191	45.114	69.645	20.613	1.00	33.41	N
ATOM	1294	CA	GLY	191	44.913	68.318	20.104	1.00	33.41	C
ATOM	1295	C	GLY	191	43.519	68.200	19.570	1.00	33.41	C
ATOM	1296	O	GLY	191	43.288	67.558	18.547	1.00	33.41	O
ATOM	1297	N	MET	192	42.545	68.799	20.274	1.00	68.17	N
ATOM	1298	CA	MET	192	41.168	68.751	19.878	1.00	68.17	C
ATOM	1299	CB	MET	192	40.208	69.282	20.953	1.00	68.17	C
ATOM	1300	CG	MET	192	40.205	68.397	22.202	1.00	68.17	C

ATOM	1301	SD	MET	192	39.776	66.656	21.885	1.00	68.17
ATOM	1302	CE	MET	192	39.919	66.113	23.612	1.00	68.17
ATOM	1303	C	MET	192	40.968	69.520	18.602	1.00	68.17
ATOM	1304	O	MET	192	40.053	69.227	17.836	1.00	68.17
ATOM	1305	N	PHE	193	41.765	70.581	18.379	1.00	57.28
ATOM	1306	CA	PHE	193	41.668	71.374	17.180	1.00	57.28
ATOM	1307	CB	PHE	193	42.579	72.613	17.234	1.00	57.28
ATOM	1308	CG	PHE	193	42.512	73.304	15.917	1.00	57.28
ATOM	1309	CD1	PHE	193	41.452	74.121	15.600	1.00	57.28
ATOM	1310	CD2	PHE	193	43.524	73.141	15.000	1.00	57.28
ATOM	1311	CE1	PHE	193	41.400	74.759	14.383	1.00	57.28
ATOM	1312	CE2	PHE	193	43.478	73.775	13.782	1.00	57.28
ATOM	1313	CZ	PHE	193	42.414	74.587	13.472	1.00	57.28
ATOM	1314	C	PHE	193	42.071	70.566	15.982	1.00	57.28
ATOM	1315	O	PHE	193	41.360	70.516	14.979	1.00	57.28
ATOM	1316	N	PHE	194	43.224	69.881	16.075	1.00	76.45
ATOM	1317	CA	PHE	194	43.747	69.100	14.989	1.00	76.45
ATOM	1318	CB	PHE	194	45.130	68.477	15.259	1.00	76.45
ATOM	1319	CG	PHE	194	46.136	69.570	15.180	1.00	76.45
ATOM	1320	CD1	PHE	194	46.525	70.060	13.954	1.00	76.45
ATOM	1321	CD2	PHE	194	46.701	70.097	16.318	1.00	76.45
ATOM	1322	CE1	PHE	194	47.455	71.068	13.863	1.00	76.45
ATOM	1323	CE2	PHE	194	47.632	71.105	16.232	1.00	76.45
ATOM	1324	CZ	PHE	194	48.009	71.594	15.004	1.00	76.45
ATOM	1325	C	PHE	194	42.804	67.980	14.713	1.00	76.45
ATOM	1326	O	PHE	194	42.715	67.506	13.583	1.00	76.45
ATOM	1327	N	GLN	195	42.131	67.476	15.762	1.00	154.66
ATOM	1328	CA	GLN	195	41.178	66.415	15.596	1.00	154.66
ATOM	1329	CB	GLN	195	40.448	66.095	16.911	1.00	154.66
ATOM	1330	CG	GLN	195	41.316	65.545	18.033	1.00	154.66
ATOM	1331	CD	GLN	195	41.071	64.052	18.090	1.00	154.66
ATOM	1332	OE1	GLN	195	41.983	63.276	18.367	1.00	154.66
ATOM	1333	NE2	GLN	195	39.798	63.643	17.840	1.00	154.66
ATOM	1334	C	GLN	195	40.069	66.905	14.710	1.00	154.66
ATOM	1335	O	GLN	195	39.689	66.254	13.738	1.00	154.66
ATOM	1336	N	SER	196	39.537	68.096	15.038	1.00	84.59
ATOM	1337	CA	SER	196	38.402	68.675	14.374	1.00	84.59
ATOM	1338	CB	SER	196	37.995	69.999	15.029	1.00	84.59
ATOM	1339	OG	SER	196	37.091	70.685	14.182	1.00	84.59
ATOM	1340	C	SER	196	38.700	68.990	12.944	1.00	84.59
ATOM	1341	O	SER	196	37.892	68.712	12.058	1.00	84.59
ATOM	1342	N	MET	197	39.864	69.609	12.689	1.00	49.04
ATOM	1343	CA	MET	197	40.231	69.986	11.355	1.00	49.04
ATOM	1344	CB	MET	197	41.517	70.823	11.283	1.00	49.04
ATOM	1345	CG	MET	197	41.331	72.234	11.841	1.00	49.04
ATOM	1346	SD	MET	197	40.060	73.209	10.977	1.00	49.04
ATOM	1347	CE	MET	197	40.934	73.269	9.386	1.00	49.04
ATOM	1348	C	MET	197	40.432	68.754	10.545	1.00	49.04
ATOM	1349	O	MET	197	40.173	68.741	9.343	1.00	49.04
ATOM	1350	N	ALA	198	40.939	67.690	11.188	1.00	52.87
ATOM	1351	CA	ALA	198	41.164	66.448	10.516	1.00	52.87
ATOM	1352	CB	ALA	198	41.799	65.379	11.424	1.00	52.87
ATOM	1353	C	ALA	198	39.844	65.925	10.044	1.00	52.87
ATOM	1354	O	ALA	198	39.787	65.238	9.032	1.00	52.87
ATOM	1355	N	THR	199	38.766	66.144	10.823	1.00	57.90
ATOM	1356	CA	THR	199	37.434	65.735	10.459	1.00	57.90
ATOM	1357	CB	THR	199	36.490	65.783	11.625	1.00	57.90
ATOM	1358	OG1	THR	199	36.974	64.961	12.677	1.00	57.90
ATOM	1359	CG2	THR	199	35.111	65.285	11.160	1.00	57.90
ATOM	1360	C	THR	199	36.870	66.626	9.386	1.00	57.90
ATOM	1361	O	THR	199	36.137	66.169	8.514	1.00	57.90
ATOM	1362	N	PHE	200	37.160	67.940	9.435	1.00	58.73
ATOM	1363	CA	PHE	200	36.615	68.861	8.474	1.00	58.73
ATOM	1364	CB	PHE	200	37.077	70.301	8.775	1.00	58.73
ATOM	1365	CG	PHE	200	36.501	71.242	7.775	1.00	58.73
ATOM	1366	CD1	PHE	200	35.221	71.724	7.923	1.00	58.73
ATOM	1367	CD2	PHE	200	37.251	71.653	6.697	1.00	58.73
ATOM	1368	CE1	PHE	200	34.692	72.597	7.001	1.00	58.73
ATOM	1369	CE2	PHE	200	36.728	72.526	5.774	1.00	58.73
ATOM	1370	CZ	PHE	200	35.446	72.998	5.925	1.00	58.73
ATOM	1371	C	PHE	200	37.100	68.476	7.107	1.00	58.73
ATOM	1372	O	PHE	200	36.310	68.348	6.173	1.00	58.73
ATOM	1373	N	PHE	201	38.426	68.298	6.952	1.00	52.87
ATOM	1374	CA	PHE	201	39.004	67.893	5.701	1.00	52.87

ATOM	1375	CB	PHE	201	40.542	67.947	5.684	1.00	52.87	C
ATOM	1376	CG	PHE	201	40.976	69.370	5.726	1.00	52.87	C
ATOM	1377	CD1	PHE	201	40.982	70.127	4.577	1.00	52.87	C
ATOM	1378	CD2	PHE	201	41.390	69.944	6.905	1.00	52.87	C
ATOM	1379	CE1	PHE	201	41.386	71.441	4.606	1.00	52.87	C
ATOM	1380	CE2	PHE	201	41.795	71.257	6.940	1.00	52.87	C
ATOM	1381	CZ	PHE	201	41.792	72.009	5.789	1.00	52.87	C
ATOM	1382	C	PHE	201	38.648	66.470	5.416	1.00	52.87	C
ATOM	1383	O	PHE	201	38.301	66.124	4.289	1.00	52.87	O
ATOM	1384	N	THR	202	38.736	65.598	6.439	1.00	64.26	N
ATOM	1385	CA	THR	202	38.479	64.206	6.204	1.00	64.26	C
ATOM	1386	CB	THR	202	38.828	63.272	7.332	1.00	64.26	C
ATOM	1387	OG1	THR	202	40.236	63.227	7.514	1.00	64.26	O
ATOM	1388	CG2	THR	202	38.302	61.866	6.997	1.00	64.26	C
ATOM	1389	C	THR	202	37.054	63.975	5.800	1.00	64.26	C
ATOM	1390	O	THR	202	36.777	63.047	5.046	1.00	64.26	O
ATOM	1391	N	GLY	203	36.104	64.752	6.350	1.00	46.01	N
ATOM	1392	CA	GLY	203	34.704	64.599	6.051	1.00	46.01	C
ATOM	1393	C	GLY	203	34.351	65.033	4.657	1.00	46.01	C
ATOM	1394	O	GLY	203	33.683	64.311	3.918	1.00	46.01	O
ATOM	1395	N	PHE	204	34.794	66.238	4.257	1.00	91.31	N
ATOM	1396	CA	PHE	204	34.469	66.769	2.965	1.00	91.31	C
ATOM	1397	CB	PHE	204	34.769	68.268	2.797	1.00	91.31	C
ATOM	1398	CG	PHE	204	33.670	68.976	3.514	1.00	91.31	C
ATOM	1399	CD1	PHE	204	32.399	68.977	2.988	1.00	91.31	C
ATOM	1400	CD2	PHE	204	33.897	69.645	4.694	1.00	91.31	C
ATOM	1401	CE1	PHE	204	31.368	69.623	3.628	1.00	91.31	C
ATOM	1402	CE2	PHE	204	32.870	70.294	5.339	1.00	91.31	C
ATOM	1403	CZ	PHE	204	31.603	70.284	4.809	1.00	91.31	C
ATOM	1404	C	PHE	204	35.161	65.988	1.900	1.00	91.31	C
ATOM	1405	O	PHE	204	34.697	65.937	0.764	1.00	91.31	O
ATOM	1406	N	ILE	205	36.334	65.410	2.205	1.00	135.46	N
ATOM	1407	CA	ILE	205	37.018	64.679	1.180	1.00	135.46	C
ATOM	1408	CB	ILE	205	38.406	64.252	1.591	1.00	135.46	C
ATOM	1409	CG1	ILE	205	39.189	63.760	0.365	1.00	135.46	C
ATOM	1410	CG2	ILE	205	38.320	63.230	2.737	1.00	135.46	C
ATOM	1411	CD1	ILE	205	39.520	64.875	-0.625	1.00	135.46	C
ATOM	1412	C	ILE	205	36.223	63.467	0.762	1.00	135.46	C
ATOM	1413	O	ILE	205	35.971	63.263	-0.424	1.00	135.46	O
ATOM	1414	N	VAL	206	35.753	62.657	1.730	1.00	99.33	N
ATOM	1415	CA	VAL	206	35.057	61.433	1.444	1.00	99.33	C
ATOM	1416	CB	VAL	206	34.724	60.649	2.681	1.00	99.33	C
ATOM	1417	CG1	VAL	206	33.758	61.480	3.541	1.00	99.33	C
ATOM	1418	CG2	VAL	206	34.157	59.283	2.257	1.00	99.33	C
ATOM	1419	C	VAL	206	33.768	61.741	0.755	1.00	99.33	C
ATOM	1420	O	VAL	206	33.287	60.958	-0.064	1.00	99.33	O
ATOM	1421	N	GLY	207	33.142	62.877	1.109	1.00	30.60	N
ATOM	1422	CA	GLY	207	31.887	63.211	0.507	1.00	30.60	C
ATOM	1423	C	GLY	207	32.053	63.410	-0.972	1.00	30.60	C
ATOM	1424	O	GLY	207	31.258	62.907	-1.763	1.00	30.60	O
ATOM	1425	N	PHE	208	33.085	64.169	-1.385	1.00	58.11	N
ATOM	1426	CA	PHE	208	33.290	64.459	-2.778	1.00	58.11	C
ATOM	1427	CB	PHE	208	34.308	65.590	-3.017	1.00	58.11	C
ATOM	1428	CG	PHE	208	33.643	66.877	-2.647	1.00	58.11	C
ATOM	1429	CD1	PHE	208	33.611	67.317	-1.343	1.00	58.11	C
ATOM	1430	CD2	PHE	208	33.045	67.649	-3.616	1.00	58.11	C
ATOM	1431	CE1	PHE	208	32.997	68.504	-1.012	1.00	58.11	C
ATOM	1432	CE2	PHE	208	32.429	68.836	-3.293	1.00	58.11	C
ATOM	1433	CZ	PHE	208	32.403	69.266	-1.989	1.00	58.11	C
ATOM	1434	C	PHE	208	33.722	63.244	-3.550	1.00	58.11	C
ATOM	1435	O	PHE	208	33.236	63.003	-4.654	1.00	58.11	O
ATOM	1436	N	THR	209	34.642	62.437	-2.989	1.00	39.97	N
ATOM	1437	CA	THR	209	35.194	61.310	-3.696	1.00	39.97	C
ATOM	1438	CB	THR	209	36.253	60.599	-2.904	1.00	39.97	C
ATOM	1439	OG1	THR	209	35.701	60.059	-1.712	1.00	39.97	O
ATOM	1440	CG2	THR	209	37.364	61.605	-2.559	1.00	39.97	C
ATOM	1441	C	THR	209	34.113	60.318	-4.005	1.00	39.97	C
ATOM	1442	O	THR	209	34.098	59.716	-5.079	1.00	39.97	O
ATOM	1443	N	ARG	210	33.220	60.094	-3.025	1.00	117.51	N
ATOM	1444	CA	ARG	210	32.088	59.211	-3.076	1.00	117.51	C
ATOM	1445	CB	ARG	210	31.524	58.850	-1.692	1.00	117.51	C
ATOM	1446	CG	ARG	210	32.238	57.655	-1.059	1.00	117.51	C
ATOM	1447	CD	ARG	210	31.684	56.323	-1.573	1.00	117.51	C
ATOM	1448	NE	ARG	210	32.432	55.217	-0.913	1.00	117.51	N

ATOM	1449	CZ	ARG	210	33.532	54.684	-1.520	1.00117.51	C
ATOM	1450	NH1	ARG	210	33.955	55.177	-2.720	1.00117.51	N
ATOM	1451	NH2	ARG	210	34.206	53.653	-0.930	1.00117.51	N
ATOM	1452	C	ARG	210	30.955	59.757	-3.897	1.00117.51	C
ATOM	1453	O	ARG	210	30.103	58.981	-4.332	1.00117.51	O
ATOM	1454	N	GLY	211	30.907	61.080	-4.171	1.00 91.19	N
ATOM	1455	CA	GLY	211	29.715	61.611	-4.782	1.00 91.19	C
ATOM	1456	C	GLY	211	29.554	63.063	-4.419	1.00 91.19	C
ATOM	1457	O	GLY	211	28.952	63.433	-3.413	1.00 91.19	O
ATOM	1458	N	TRP	212	30.181	63.915	-5.261	1.00 87.55	N
ATOM	1459	CA	TRP	212	30.280	65.348	-5.178	1.00 87.55	C
ATOM	1460	CB	TRP	212	31.347	65.918	-6.131	1.00 87.55	C
ATOM	1461	CG	TRP	212	31.126	65.639	-7.599	1.00 87.55	C
ATOM	1462	CD2	TRP	212	30.528	66.569	-8.515	1.00 87.55	C
ATOM	1463	CD1	TRP	212	31.468	64.540	-8.334	1.00 87.55	C
ATOM	1464	NE1	TRP	212	31.114	64.725	-9.649	1.00 87.55	N
ATOM	1465	CE2	TRP	212	30.537	65.971	-9.775	1.00 87.55	C
ATOM	1466	CE3	TRP	212	30.020	67.821	-8.322	1.00 87.55	C
ATOM	1467	CZ2	TRP	212	30.035	66.621	-10.866	1.00 87.55	C
ATOM	1468	CZ3	TRP	212	29.508	68.471	-9.423	1.00 87.55	C
ATOM	1469	CH2	TRP	212	29.516	67.883	-10.670	1.00 87.55	C
ATOM	1470	C	TRP	212	28.983	66.088	-5.407	1.00 87.55	C
ATOM	1471	O	TRP	212	28.803	67.179	-4.870	1.00 87.55	O
ATOM	1472	N	LYS	213	28.050	65.567	-6.225	1.00123.21	N
ATOM	1473	CA	LYS	213	26.864	66.323	-6.546	1.00123.21	C
ATOM	1474	CB	LYS	213	25.863	65.507	-7.385	1.00123.21	C
ATOM	1475	CG	LYS	213	26.409	64.922	-8.689	1.00123.21	C
ATOM	1476	CD	LYS	213	26.794	65.948	-9.752	1.00123.21	C
ATOM	1477	CE	LYS	213	27.331	65.294	-11.027	1.00123.21	C
ATOM	1478	NZ	LYS	213	27.391	66.284	-12.123	1.00123.21	N
ATOM	1479	C	LYS	213	26.103	66.668	-5.292	1.00123.21	C
ATOM	1480	O	LYS	213	25.752	67.826	-5.069	1.00123.21	O
ATOM	1481	N	LEU	214	25.843	65.663	-4.432	1.00181.31	N
ATOM	1482	CA	LEU	214	25.042	65.830	-3.246	1.00181.31	C
ATOM	1483	CB	LEU	214	24.846	64.546	-2.417	1.00181.31	C
ATOM	1484	CG	LEU	214	23.818	63.549	-2.962	1.00181.31	C
ATOM	1485	CD1	LEU	214	22.423	64.193	-3.002	1.00181.31	C
ATOM	1486	CD2	LEU	214	24.269	62.921	-4.287	1.00181.31	C
ATOM	1487	C	LEU	214	25.676	66.766	-2.276	1.00181.31	C
ATOM	1488	O	LEU	214	24.983	67.521	-1.598	1.00181.31	O
ATOM	1489	N	THR	215	27.005	66.691	-2.127	1.00124.00	N
ATOM	1490	CA	THR	215	27.674	67.511	-1.165	1.00124.00	C
ATOM	1491	CB	THR	215	29.110	67.121	-0.991	1.00124.00	C
ATOM	1492	OG1	THR	215	29.729	67.959	-0.035	1.00124.00	O
ATOM	1493	CG2	THR	215	29.839	67.202	-2.334	1.00124.00	C
ATOM	1494	C	THR	215	27.575	68.959	-1.536	1.00124.00	C
ATOM	1495	O	THR	215	27.290	69.807	-0.692	1.00124.00	O
ATOM	1496	N	LEU	216	27.750	69.279	-2.828	1.00157.73	N
ATOM	1497	CA	LEU	216	27.748	70.647	-3.258	1.00157.73	C
ATOM	1498	CB	LEU	216	27.983	70.801	-4.767	1.00157.73	C
ATOM	1499	CG	LEU	216	29.378	70.317	-5.196	1.00157.73	C
ATOM	1500	CD1	LEU	216	29.623	70.579	-6.686	1.00157.73	C
ATOM	1501	CD2	LEU	216	30.477	70.910	-4.301	1.00157.73	C
ATOM	1502	C	LEU	216	26.426	71.250	-2.921	1.00157.73	C
ATOM	1503	O	LEU	216	26.346	72.439	-2.622	1.00157.73	O
ATOM	1504	N	VAL	217	25.344	70.453	-2.986	1.00 41.65	N
ATOM	1505	CA	VAL	217	24.048	70.968	-2.650	1.00 41.65	C
ATOM	1506	CB	VAL	217	22.967	69.926	-2.758	1.00 41.65	C
ATOM	1507	CG1	VAL	217	21.642	70.527	-2.255	1.00 41.65	C
ATOM	1508	CG2	VAL	217	22.910	69.419	-4.210	1.00 41.65	C
ATOM	1509	C	VAL	217	24.080	71.430	-1.218	1.00 41.65	C
ATOM	1510	O	VAL	217	23.635	72.532	-0.901	1.00 41.65	O
ATOM	1511	N	ILE	218	24.644	70.597	-0.320	1.00114.94	N
ATOM	1512	CA	ILE	218	24.691	70.849	1.098	1.00114.94	C
ATOM	1513	CB	ILE	218	25.353	69.720	1.842	1.00114.94	C
ATOM	1514	CG1	ILE	218	24.698	68.363	1.514	1.00114.94	C
ATOM	1515	CG2	ILE	218	25.321	70.062	3.342	1.00114.94	C
ATOM	1516	CD1	ILE	218	23.241	68.235	1.945	1.00114.94	C
ATOM	1517	C	ILE	218	25.525	72.071	1.364	1.00114.94	C
ATOM	1518	O	ILE	218	25.177	72.930	2.172	1.00114.94	O
ATOM	1519	N	LEU	219	26.664	72.183	0.665	1.00121.49	N
ATOM	1520	CA	LEU	219	27.584	73.268	0.847	1.00121.49	C
ATOM	1521	CB	LEU	219	28.829	73.134	-0.053	1.00121.49	C
ATOM	1522	CG	LEU	219	29.884	72.115	0.438	1.00121.49	C

ATOM	1523	CD1	LEU	219	30.786	72.722	1.519	1.00121.49	C
ATOM	1524	CD2	LEU	219	29.246	70.812	0.938	1.00121.49	C
ATOM	1525	C	LEU	219	26.899	74.558	0.525	1.00121.49	C
ATOM	1526	O	LEU	219	27.284	75.602	1.041	1.00121.49	O
ATOM	1527	N	ALA	220	25.914	74.544	-0.391	1.00 48.25	N
ATOM	1528	CA	ALA	220	25.229	75.755	-0.750	1.00 48.25	C
ATOM	1529	CB	ALA	220	24.252	75.553	-1.921	1.00 48.25	C
ATOM	1530	C	ALA	220	24.433	76.319	0.401	1.00 48.25	C
ATOM	1531	O	ALA	220	24.455	77.527	0.620	1.00 48.25	O
ATOM	1532	N	ILE	221	23.685	75.463	1.136	1.00135.78	N
ATOM	1533	CA	ILE	221	22.808	75.835	2.227	1.00135.78	C
ATOM	1534	CB	ILE	221	21.932	74.708	2.695	1.00135.78	C
ATOM	1535	CG1	ILE	221	22.786	73.598	3.312	1.00135.78	C
ATOM	1536	CG2	ILE	221	21.089	74.221	1.512	1.00135.78	C
ATOM	1537	CD1	ILE	221	21.986	72.412	3.823	1.00135.78	C
ATOM	1538	C	ILE	221	23.566	76.279	3.438	1.00135.78	C
ATOM	1539	O	ILE	221	23.139	77.171	4.169	1.00135.78	O
ATOM	1540	N	SER	222	24.713	75.629	3.678	1.00113.61	N
ATOM	1541	CA	SER	222	25.520	75.757	4.855	1.00113.61	C
ATOM	1542	CB	SER	222	26.844	75.001	4.663	1.00113.61	C
ATOM	1543	OG	SER	222	27.659	75.117	5.814	1.00113.61	O
ATOM	1544	C	SER	222	25.846	77.191	5.160	1.00113.61	C
ATOM	1545	O	SER	222	25.882	77.563	6.333	1.00113.61	O
ATOM	1546	N	PRO	223	26.093	78.026	4.196	1.00 68.45	N
ATOM	1547	CA	PRO	223	26.408	79.387	4.526	1.00 68.45	C
ATOM	1548	CD	PRO	223	26.713	77.609	2.950	1.00 68.45	C
ATOM	1549	CB	PRO	223	26.851	80.030	3.216	1.00 68.45	C
ATOM	1550	CG	PRO	223	27.465	78.851	2.435	1.00 68.45	C
ATOM	1551	C	PRO	223	25.257	80.049	5.211	1.00 68.45	C
ATOM	1552	O	PRO	223	25.476	80.961	6.008	1.00 68.45	O
ATOM	1553	N	VAL	224	24.025	79.613	4.905	1.00 46.33	N
ATOM	1554	CA	VAL	224	22.861	80.171	5.520	1.00 46.33	C
ATOM	1555	CB	VAL	224	21.588	79.615	4.952	1.00 46.33	C
ATOM	1556	CG1	VAL	224	20.399	80.249	5.694	1.00 46.33	C
ATOM	1557	CG2	VAL	224	21.580	79.858	3.433	1.00 46.33	C
ATOM	1558	C	VAL	224	22.903	79.813	6.971	1.00 46.33	C
ATOM	1559	O	VAL	224	22.493	80.583	7.837	1.00 46.33	O
ATOM	1560	N	LEU	225	23.373	78.590	7.259	1.00154.76	N
ATOM	1561	CA	LEU	225	23.422	78.060	8.587	1.00154.76	C
ATOM	1562	CB	LEU	225	23.866	76.588	8.529	1.00154.76	C
ATOM	1563	CG	LEU	225	23.518	75.757	9.767	1.00154.76	C
ATOM	1564	CD1	LEU	225	21.997	75.569	9.838	1.00154.76	C
ATOM	1565	CD2	LEU	225	24.260	74.411	9.779	1.00154.76	C
ATOM	1566	C	LEU	225	24.430	78.834	9.389	1.00154.76	C
ATOM	1567	O	LEU	225	24.159	79.282	10.504	1.00154.76	O
ATOM	1568	N	GLY	226	25.626	79.041	8.811	1.00 27.43	N
ATOM	1569	CA	GLY	226	26.680	79.719	9.506	1.00 27.43	C
ATOM	1570	C	GLY	226	26.230	81.109	9.793	1.00 27.43	C
ATOM	1571	O	GLY	226	26.525	81.664	10.850	1.00 27.43	O
ATOM	1572	N	LEU	227	25.531	81.720	8.823	1.00 40.44	N
ATOM	1573	CA	LEU	227	25.060	83.062	8.977	1.00 40.44	C
ATOM	1574	CB	LEU	227	24.420	83.610	7.689	1.00 40.44	C
ATOM	1575	CG	LEU	227	23.936	85.067	7.802	1.00 40.44	C
ATOM	1576	CD1	LEU	227	25.114	86.029	8.024	1.00 40.44	C
ATOM	1577	CD2	LEU	227	23.070	85.461	6.595	1.00 40.44	C
ATOM	1578	C	LEU	227	24.023	83.096	10.061	1.00 40.44	C
ATOM	1579	O	LEU	227	24.022	83.989	10.907	1.00 40.44	O
ATOM	1580	N	SER	228	23.124	82.092	10.076	1.00 87.58	N
ATOM	1581	CA	SER	228	22.033	82.084	11.009	1.00 87.58	C
ATOM	1582	CB	SER	228	21.095	80.874	10.848	1.00 87.58	C
ATOM	1583	OG	SER	228	20.350	80.982	9.646	1.00 87.58	O
ATOM	1584	C	SER	228	22.538	82.034	12.414	1.00 87.58	C
ATOM	1585	O	SER	228	21.960	82.654	13.305	1.00 87.58	O
ATOM	1586	N	ALA	229	23.610	81.264	12.664	1.00 45.67	N
ATOM	1587	CA	ALA	229	24.103	81.144	14.006	1.00 45.67	C
ATOM	1588	CB	ALA	229	25.241	80.116	14.126	1.00 45.67	C
ATOM	1589	C	ALA	229	24.635	82.457	14.515	1.00 45.67	C
ATOM	1590	O	ALA	229	24.339	82.872	15.635	1.00 45.67	O
ATOM	1591	N	ALA	230	25.427	83.158	13.684	1.00 40.64	N
ATOM	1592	CA	ALA	230	26.106	84.356	14.102	1.00 40.64	C
ATOM	1593	CB	ALA	230	27.047	84.909	13.018	1.00 40.64	C
ATOM	1594	C	ALA	230	25.148	85.450	14.452	1.00 40.64	C
ATOM	1595	O	ALA	230	25.340	86.162	15.438	1.00 40.64	O
ATOM	1596	N	VAL	231	24.076	85.604	13.659	1.00 90.37	N

ATOM	1597	CA	VAL	231	23.183	86.709	13.845	1.00	90.37	C
ATOM	1598	CB	VAL	231	22.049	86.710	12.858	1.00	90.37	C
ATOM	1599	CG1	VAL	231	21.205	85.441	13.070	1.00	90.37	C
ATOM	1600	CG2	VAL	231	21.256	88.017	13.026	1.00	90.37	C
ATOM	1601	C	VAL	231	22.589	86.677	15.222	1.00	90.37	C
ATOM	1602	O	VAL	231	22.464	87.716	15.868	1.00	90.37	O
ATOM	1603	N	TRP	232	22.207	85.485	15.712	1.00	82.43	N
ATOM	1604	CA	TRP	232	21.560	85.373	16.991	1.00	82.43	C
ATOM	1605	CB	TRP	232	21.073	83.950	17.303	1.00	82.43	C
ATOM	1606	CG	TRP	232	19.872	83.574	16.482	1.00	82.43	C
ATOM	1607	CD2	TRP	232	18.584	84.168	16.687	1.00	82.43	C
ATOM	1608	CD1	TRP	232	19.745	82.714	15.430	1.00	82.43	C
ATOM	1609	NE1	TRP	232	18.450	82.734	14.967	1.00	82.43	N
ATOM	1610	CE2	TRP	232	17.727	83.627	15.732	1.00	82.43	C
ATOM	1611	CE3	TRP	232	18.157	85.096	17.594	1.00	82.43	C
ATOM	1612	CZ2	TRP	232	16.419	84.010	15.669	1.00	82.43	C
ATOM	1613	CZ3	TRP	232	16.836	85.474	17.534	1.00	82.43	C
ATOM	1614	CH2	TRP	232	15.985	84.940	16.589	1.00	82.43	C
ATOM	1615	C	TRP	232	22.459	85.791	18.102	1.00	82.43	C
ATOM	1616	O	TRP	232	22.040	86.496	19.020	1.00	82.43	O
ATOM	1617	N	ALA	233	23.733	85.384	18.038	1.00	48.21	N
ATOM	1618	CA	ALA	233	24.634	85.673	19.111	1.00	48.21	C
ATOM	1619	CB	ALA	233	26.067	85.185	18.835	1.00	48.21	C
ATOM	1620	C	ALA	233	24.688	87.158	19.291	1.00	48.21	C
ATOM	1621	O	ALA	233	24.766	87.649	20.417	1.00	48.21	O
ATOM	1622	N	LYS	234	24.655	87.921	18.184	1.00	58.18	N
ATOM	1623	CA	LYS	234	24.699	89.347	18.331	1.00	58.18	C
ATOM	1624	CB	LYS	234	24.516	90.130	17.018	1.00	58.18	C
ATOM	1625	CG	LYS	234	25.635	90.068	15.981	1.00	58.18	C
ATOM	1626	CD	LYS	234	25.192	90.731	14.671	1.00	58.18	C
ATOM	1627	CE	LYS	234	26.316	91.012	13.674	1.00	58.18	C
ATOM	1628	NZ	LYS	234	25.788	91.809	12.542	1.00	58.18	N
ATOM	1629	C	LYS	234	23.503	89.765	19.120	1.00	58.18	C
ATOM	1630	O	LYS	234	23.599	90.556	20.055	1.00	58.18	O
ATOM	1631	N	ILE	235	22.338	89.221	18.731	1.00	52.08	N
ATOM	1632	CA	ILE	235	21.054	89.563	19.265	1.00	52.08	C
ATOM	1633	CB	ILE	235	19.957	88.884	18.497	1.00	52.08	C
ATOM	1634	CG1	ILE	235	19.945	89.379	17.041	1.00	52.08	C
ATOM	1635	CG2	ILE	235	18.632	89.103	19.232	1.00	52.08	C
ATOM	1636	CD1	ILE	235	19.052	88.549	16.121	1.00	52.08	C
ATOM	1637	C	ILE	235	20.926	89.173	20.707	1.00	52.08	C
ATOM	1638	O	ILE	235	20.373	89.919	21.512	1.00	52.08	O
ATOM	1639	N	LEU	236	21.410	87.979	21.082	1.00	56.36	N
ATOM	1640	CA	LEU	236	21.247	87.548	22.438	1.00	56.36	C
ATOM	1641	CB	LEU	236	21.763	86.116	22.664	1.00	56.36	C
ATOM	1642	CG	LEU	236	20.990	85.069	21.835	1.00	56.36	C
ATOM	1643	CD1	LEU	236	21.490	83.644	22.124	1.00	56.36	C
ATOM	1644	CD2	LEU	236	19.470	85.220	22.012	1.00	56.36	C
ATOM	1645	C	LEU	236	21.999	88.481	23.335	1.00	56.36	C
ATOM	1646	O	LEU	236	21.517	88.868	24.399	1.00	56.36	O
ATOM	1647	N	SER	237	23.210	88.883	22.922	1.00	85.42	N
ATOM	1648	CA	SER	237	23.981	89.757	23.752	1.00	85.42	C
ATOM	1649	CB	SER	237	25.403	90.003	23.213	1.00	85.42	C
ATOM	1650	OG	SER	237	25.353	90.662	21.956	1.00	85.42	O
ATOM	1651	C	SER	237	23.286	91.077	23.852	1.00	85.42	C
ATOM	1652	O	SER	237	23.390	91.758	24.871	1.00	85.42	O
ATOM	1653	N	SER	238	22.559	91.482	22.794	1.00	93.71	N
ATOM	1654	CA	SER	238	21.928	92.772	22.823	1.00	93.71	C
ATOM	1655	CB	SER	238	21.276	93.179	21.489	1.00	93.71	C
ATOM	1656	OG	SER	238	20.065	92.467	21.284	1.00	93.71	O
ATOM	1657	C	SER	238	20.853	92.798	23.867	1.00	93.71	C
ATOM	1658	O	SER	238	20.748	93.745	24.644	1.00	93.71	O
ATOM	1659	N	PHE	239	20.039	91.730	23.921	1.00	93.51	N
ATOM	1660	CA	PHE	239	18.914	91.624	24.803	1.00	93.51	C
ATOM	1661	CB	PHE	239	18.049	90.382	24.534	1.00	93.51	C
ATOM	1662	CG	PHE	239	17.228	90.699	23.335	1.00	93.51	C
ATOM	1663	CD1	PHE	239	16.014	91.326	23.490	1.00	93.51	C
ATOM	1664	CD2	PHE	239	17.662	90.391	22.068	1.00	93.51	C
ATOM	1665	CE1	PHE	239	15.237	91.635	22.400	1.00	93.51	C
ATOM	1666	CE2	PHE	239	16.884	90.701	20.978	1.00	93.51	C
ATOM	1667	CZ	PHE	239	15.671	91.322	21.137	1.00	93.51	C
ATOM	1668	C	PHE	239	19.344	91.578	26.221	1.00	93.51	C
ATOM	1669	O	PHE	239	18.558	91.937	27.094	1.00	93.51	O
ATOM	1670	N	THR	240	20.539	91.028	26.503	1.00	152.46	N

ATOM	1671	CA	THR	240	20.952	90.937	27.872	1.00152.46	C
ATOM	1672	CB	THR	240	22.150	90.042	28.052	1.00152.46	C
ATOM	1673	OG1	THR	240	22.381	89.830	29.434	1.00152.46	O
ATOM	1674	CG2	THR	240	23.392	90.657	27.385	1.00152.46	C
ATOM	1675	C	THR	240	21.227	92.278	28.518	1.00152.46	C
ATOM	1676	O	THR	240	20.614	92.625	29.530	1.00152.46	O
ATOM	1677	N	ASP	241	22.096	93.108	27.905	1.00 60.15	N
ATOM	1678	CA	ASP	241	22.560	94.328	28.518	1.00 60.15	C
ATOM	1679	CB	ASP	241	23.630	95.047	27.677	1.00 60.15	C
ATOM	1680	CG	ASP	241	24.901	94.206	27.702	1.00 60.15	C
ATOM	1681	OD1	ASP	241	24.919	93.174	28.425	1.00 60.15	O
ATOM	1682	OD2	ASP	241	25.874	94.588	27.000	1.00 60.15	O
ATOM	1683	C	ASP	241	21.421	95.271	28.720	1.00 60.15	C
ATOM	1684	O	ASP	241	21.380	96.018	29.697	1.00 60.15	O
ATOM	1685	N	LYS	242	20.458	95.245	27.791	1.00143.36	N
ATOM	1686	CA	LYS	242	19.333	96.131	27.810	1.00143.36	C
ATOM	1687	CB	LYS	242	18.465	95.982	26.549	1.00143.36	C
ATOM	1688	CG	LYS	242	17.966	94.561	26.286	1.00143.36	C
ATOM	1689	CD	LYS	242	17.104	94.467	25.029	1.00143.36	C
ATOM	1690	CE	LYS	242	17.899	94.764	23.752	1.00143.36	C
ATOM	1691	NZ	LYS	242	17.023	94.658	22.565	1.00143.36	N
ATOM	1692	C	LYS	242	18.506	95.906	29.041	1.00143.36	C
ATOM	1693	O	LYS	242	17.774	96.794	29.471	1.00143.36	O
ATOM	1694	N	GLU	243	18.554	94.692	29.613	1.00129.87	N
ATOM	1695	CA	GLU	243	17.758	94.358	30.763	1.00129.87	C
ATOM	1696	CB	GLU	243	17.907	92.873	31.148	1.00129.87	C
ATOM	1697	CG	GLU	243	17.426	91.888	30.080	1.00129.87	C
ATOM	1698	CD	GLU	243	15.952	91.591	30.309	1.00129.87	C
ATOM	1699	OE1	GLU	243	15.406	92.064	31.340	1.00129.87	O
ATOM	1700	OE2	GLU	243	15.354	90.878	29.460	1.00129.87	O
ATOM	1701	C	GLU	243	18.162	95.136	31.987	1.00129.87	C
ATOM	1702	O	GLU	243	17.317	95.656	32.717	1.00129.87	O
ATOM	1703	N	LEU	244	19.475	95.258	32.241	1.00 98.56	N
ATOM	1704	CA	LEU	244	19.925	95.837	33.477	1.00 98.56	C
ATOM	1705	CB	LEU	244	21.456	95.811	33.612	1.00 98.56	C
ATOM	1706	CG	LEU	244	22.026	94.383	33.684	1.00 98.56	C
ATOM	1707	CD1	LEU	244	21.762	93.601	32.387	1.00 98.56	C
ATOM	1708	CD2	LEU	244	23.508	94.397	34.076	1.00 98.56	C
ATOM	1709	C	LEU	244	19.473	97.255	33.603	1.00 98.56	C
ATOM	1710	O	LEU	244	19.037	97.692	34.669	1.00 98.56	O
ATOM	1711	N	LEU	245	19.563	98.014	32.505	1.00 99.43	N
ATOM	1712	CA	LEU	245	19.197	99.395	32.525	1.00 99.43	C
ATOM	1713	CB	LEU	245	19.539	100.122	31.213	1.00 99.43	C
ATOM	1714	CG	LEU	245	21.055	100.231	30.961	1.00 99.43	C
ATOM	1715	CD1	LEU	245	21.734	101.117	32.019	1.00 99.43	C
ATOM	1716	CD2	LEU	245	21.706	98.843	30.844	1.00 99.43	C
ATOM	1717	C	LEU	245	17.729	99.537	32.779	1.00 99.43	C
ATOM	1718	O	LEU	245	17.306	100.534	33.355	1.00 99.43	O
ATOM	1719	N	ALA	246	16.907	98.579	32.308	1.00 55.61	N
ATOM	1720	CA	ALA	246	15.472	98.667	32.435	1.00 55.61	C
ATOM	1721	CB	ALA	246	14.749	97.535	31.685	1.00 55.61	C
ATOM	1722	C	ALA	246	14.992	98.619	33.864	1.00 55.61	C
ATOM	1723	O	ALA	246	14.137	99.408	34.265	1.00 55.61	O
ATOM	1724	N	TYR	247	15.521	97.674	34.662	1.00 88.01	N
ATOM	1725	CA	TYR	247	15.144	97.448	36.035	1.00 88.01	C
ATOM	1726	CB	TYR	247	15.699	96.128	36.598	1.00 88.01	C
ATOM	1727	CG	TYR	247	15.164	95.964	37.980	1.00 88.01	C
ATOM	1728	CD1	TYR	247	13.875	95.524	38.184	1.00 88.01	C
ATOM	1729	CD2	TYR	247	15.953	96.242	39.071	1.00 88.01	C
ATOM	1730	CE1	TYR	247	13.378	95.370	39.458	1.00 88.01	C
ATOM	1731	CE2	TYR	247	15.464	96.089	40.346	1.00 88.01	C
ATOM	1732	CZ	TYR	247	14.176	95.652	40.541	1.00 88.01	C
ATOM	1733	OH	TYR	247	13.681	95.497	41.852	1.00 88.01	O
ATOM	1734	C	TYR	247	15.625	98.570	36.897	1.00 88.01	C
ATOM	1735	O	TYR	247	15.052	98.858	37.949	1.00 88.01	O
ATOM	1736	N	ALA	248	16.713	99.228	36.468	1.00 57.66	N
ATOM	1737	CA	ALA	248	17.353	100.232	37.262	1.00 57.66	C
ATOM	1738	CB	ALA	248	18.476	100.962	36.505	1.00 57.66	C
ATOM	1739	C	ALA	248	16.341	101.255	37.669	1.00 57.66	C
ATOM	1740	O	ALA	248	16.422	101.787	38.774	1.00 57.66	O
ATOM	1741	N	LYS	249	15.377	101.582	36.790	1.00 68.10	N
ATOM	1742	CA	LYS	249	14.395	102.566	37.148	1.00 68.10	C
ATOM	1743	CB	LYS	249	13.496	102.951	35.963	1.00 68.10	C
ATOM	1744	CG	LYS	249	12.793	104.294	36.155	1.00 68.10	C

ATOM	1745	CD	LYS	249	12.287	104.898	34.845	1.00	68.10	C
ATOM	1746	CE	LYS	249	11.848	106.356	34.975	1.00	68.10	C
ATOM	1747	NZ	LYS	249	11.682	106.952	33.631	1.00	68.10	N
ATOM	1748	C	LYS	249	13.537	102.075	38.286	1.00	68.10	C
ATOM	1749	O	LYS	249	13.294	102.809	39.242	1.00	68.10	O
ATOM	1750	N	ALA	250	13.041	100.821	38.212	1.00	55.14	N
ATOM	1751	CA	ALA	250	12.210	100.268	39.251	1.00	55.14	C
ATOM	1752	CB	ALA	250	11.644	98.885	38.880	1.00	55.14	C
ATOM	1753	C	ALA	250	13.013	100.100	40.506	1.00	55.14	C
ATOM	1754	O	ALA	250	12.570	100.424	41.605	1.00	55.14	O
ATOM	1755	N	GLY	251	14.255	99.618	40.365	1.00	47.97	N
ATOM	1756	CA	GLY	251	15.091	99.358	41.499	1.00	47.97	C
ATOM	1757	C	GLY	251	15.269	100.634	42.254	1.00	47.97	C
ATOM	1758	O	GLY	251	15.474	100.611	43.465	1.00	47.97	O
ATOM	1759	N	ALA	252	15.263	101.777	41.542	1.00	48.65	N
ATOM	1760	CA	ALA	252	15.422	103.067	42.162	1.00	48.65	C
ATOM	1761	CB	ALA	252	15.440	104.220	41.142	1.00	48.65	C
ATOM	1762	C	ALA	252	14.280	103.320	43.102	1.00	48.65	C
ATOM	1763	O	ALA	252	14.485	103.856	44.190	1.00	48.65	O
ATOM	1764	N	VAL	253	13.036	102.973	42.707	1.00	132.01	N
ATOM	1765	CA	VAL	253	11.926	103.209	43.596	1.00	132.01	C
ATOM	1766	CB	VAL	253	10.551	103.035	42.998	1.00	132.01	C
ATOM	1767	CG1	VAL	253	10.383	104.038	41.849	1.00	132.01	C
ATOM	1768	CG2	VAL	253	10.308	101.570	42.616	1.00	132.01	C
ATOM	1769	C	VAL	253	12.032	102.292	44.775	1.00	132.01	C
ATOM	1770	O	VAL	253	11.647	102.654	45.886	1.00	132.01	O
ATOM	1771	N	ALA	254	12.538	101.061	44.560	1.00	49.78	N
ATOM	1772	CA	ALA	254	12.644	100.107	45.628	1.00	49.78	C
ATOM	1773	CB	ALA	254	13.215	98.756	45.162	1.00	49.78	C
ATOM	1774	C	ALA	254	13.559	100.636	46.686	1.00	49.78	C
ATOM	1775	O	ALA	254	13.275	100.523	47.877	1.00	49.78	O
ATOM	1776	N	GLU	255	14.691	101.230	46.276	1.00	95.25	N
ATOM	1777	CA	GLU	255	15.638	101.739	47.223	1.00	95.25	C
ATOM	1778	CB	GLU	255	16.954	102.209	46.580	1.00	95.25	C
ATOM	1779	CG	GLU	255	17.907	102.892	47.567	1.00	95.25	C
ATOM	1780	CD	GLU	255	18.391	101.884	48.601	1.00	95.25	C
ATOM	1781	OE1	GLU	255	17.612	100.959	48.953	1.00	95.25	O
ATOM	1782	OE2	GLU	255	19.555	102.035	49.060	1.00	95.25	O
ATOM	1783	C	GLU	255	15.059	102.892	47.991	1.00	95.25	C
ATOM	1784	O	GLU	255	15.294	103.009	49.192	1.00	95.25	O
ATOM	1785	N	GLU	256	14.295	103.783	47.330	1.00	66.74	N
ATOM	1786	CA	GLU	256	13.789	104.954	47.999	1.00	66.74	C
ATOM	1787	CB	GLU	256	13.058	105.927	47.054	1.00	66.74	C
ATOM	1788	CG	GLU	256	12.617	107.221	47.748	1.00	66.74	C
ATOM	1789	CD	GLU	256	11.912	108.116	46.736	1.00	66.74	C
ATOM	1790	OE1	GLU	256	11.134	107.575	45.906	1.00	66.74	O
ATOM	1791	OE2	GLU	256	12.141	109.354	46.781	1.00	66.74	O
ATOM	1792	C	GLU	256	12.822	104.578	49.089	1.00	66.74	C
ATOM	1793	O	GLU	256	12.901	105.102	50.200	1.00	66.74	O
ATOM	1794	N	VAL	257	11.878	103.662	48.800	1.00	73.67	N
ATOM	1795	CA	VAL	257	10.853	103.287	49.737	1.00	73.67	C
ATOM	1796	CB	VAL	257	9.867	102.340	49.119	1.00	73.67	C
ATOM	1797	CG1	VAL	257	8.802	101.975	50.168	1.00	73.67	C
ATOM	1798	CG2	VAL	257	9.311	102.983	47.836	1.00	73.67	C
ATOM	1799	C	VAL	257	11.422	102.591	50.943	1.00	73.67	C
ATOM	1800	O	VAL	257	11.177	102.990	52.079	1.00	73.67	O
ATOM	1801	N	LEU	258	12.259	101.564	50.716	1.00	92.88	N
ATOM	1802	CA	LEU	258	12.766	100.704	51.751	1.00	92.88	C
ATOM	1803	CB	LEU	258	13.618	99.553	51.194	1.00	92.88	C
ATOM	1804	CG	LEU	258	12.792	98.602	50.306	1.00	92.88	C
ATOM	1805	CD1	LEU	258	13.622	97.399	49.829	1.00	92.88	C
ATOM	1806	CD2	LEU	258	11.482	98.196	51.003	1.00	92.88	C
ATOM	1807	C	LEU	258	13.584	101.490	52.726	1.00	92.88	C
ATOM	1808	O	LEU	258	13.766	101.053	53.861	1.00	92.88	O
ATOM	1809	N	ALA	259	14.236	102.574	52.264	1.00	70.93	N
ATOM	1810	CA	ALA	259	14.921	103.484	53.144	1.00	70.93	C
ATOM	1811	CB	ALA	259	15.825	104.471	52.384	1.00	70.93	C
ATOM	1812	C	ALA	259	13.926	104.313	53.934	1.00	70.93	C
ATOM	1813	O	ALA	259	14.125	104.603	55.111	1.00	70.93	O
ATOM	1814	N	ALA	260	12.865	104.766	53.235	1.00	111.28	N
ATOM	1815	CA	ALA	260	11.738	105.613	53.568	1.00	111.28	C
ATOM	1816	CB	ALA	260	11.029	106.174	52.323	1.00	111.28	C
ATOM	1817	C	ALA	260	10.680	104.969	54.429	1.00	111.28	C
ATOM	1818	O	ALA	260	9.773	105.656	54.893	1.00	111.28	O

ATOM	1819	N	ILE	261	10.718	103.639	54.625	1.00127.80	N
ATOM	1820	CA	ILE	261	9.622	102.855	55.138	1.00127.80	C
ATOM	1821	CB	ILE	261	10.034	101.456	55.497	1.00127.80	C
ATOM	1822	CG1	ILE	261	8.799	100.576	55.760	1.00127.80	C
ATOM	1823	CG2	ILE	261	11.004	101.539	56.687	1.00127.80	C
ATOM	1824	CD1	ILE	261	7.966	100.289	54.511	1.00127.80	C
ATOM	1825	C	ILE	261	8.955	103.447	56.351	1.00127.80	C
ATOM	1826	O	ILE	261	7.737	103.328	56.484	1.00127.80	O
ATOM	1827	N	ARG	262	9.686	104.083	57.277	1.00161.18	N
ATOM	1828	CA	ARG	262	9.037	104.594	58.453	1.00161.18	C
ATOM	1829	CB	ARG	262	9.995	105.377	59.366	1.00161.18	C
ATOM	1830	CG	ARG	262	11.040	104.519	60.083	1.00161.18	C
ATOM	1831	CD	ARG	262	10.447	103.672	61.211	1.00161.18	C
ATOM	1832	NE	ARG	262	10.692	102.238	60.890	1.00161.18	N
ATOM	1833	CZ	ARG	262	11.768	101.602	61.443	1.00161.18	C
ATOM	1834	NH1	ARG	262	12.570	102.266	62.325	1.00161.18	N
ATOM	1835	NH2	ARG	262	12.033	100.301	61.128	1.00161.18	N
ATOM	1836	C	ARG	262	7.944	105.557	58.070	1.00161.18	C
ATOM	1837	O	ARG	262	6.860	105.527	58.651	1.00161.18	O
ATOM	1838	N	THR	263	8.209	106.455	57.101	1.00 56.51	N
ATOM	1839	CA	THR	263	7.257	107.434	56.652	1.00 56.51	C
ATOM	1840	CB	THR	263	7.871	108.435	55.716	1.00 56.51	C
ATOM	1841	OG1	THR	263	8.908	109.145	56.379	1.00 56.51	O
ATOM	1842	CG2	THR	263	6.782	109.405	55.226	1.00 56.51	C
ATOM	1843	C	THR	263	6.123	106.755	55.949	1.00 56.51	C
ATOM	1844	O	THR	263	4.969	107.158	56.082	1.00 56.51	O
ATOM	1845	N	VAL	264	6.424	105.708	55.160	1.00 59.30	N
ATOM	1846	CA	VAL	264	5.397	105.046	54.416	1.00 59.30	C
ATOM	1847	CB	VAL	264	5.942	103.979	53.507	1.00 59.30	C
ATOM	1848	CG1	VAL	264	4.768	103.229	52.855	1.00 59.30	C
ATOM	1849	CG2	VAL	264	6.879	104.653	52.489	1.00 59.30	C
ATOM	1850	C	VAL	264	4.389	104.432	55.349	1.00 59.30	C
ATOM	1851	O	VAL	264	3.189	104.641	55.192	1.00 59.30	O
ATOM	1852	N	ILE	265	4.842	103.674	56.365	1.00 57.89	N
ATOM	1853	CA	ILE	265	3.940	103.024	57.278	1.00 57.89	C
ATOM	1854	CB	ILE	265	4.623	102.069	58.210	1.00 57.89	C
ATOM	1855	CG1	ILE	265	5.236	100.915	57.402	1.00 57.89	C
ATOM	1856	CG2	ILE	265	3.608	101.597	59.264	1.00 57.89	C
ATOM	1857	CD1	ILE	265	6.132	100.006	58.238	1.00 57.89	C
ATOM	1858	C	ILE	265	3.207	104.047	58.092	1.00 57.89	C
ATOM	1859	O	ILE	265	2.021	103.893	58.384	1.00 57.89	O
ATOM	1860	N	ALA	266	3.900	105.126	58.491	1.00 50.14	N
ATOM	1861	CA	ALA	266	3.288	106.106	59.340	1.00 50.14	C
ATOM	1862	CB	ALA	266	4.246	107.256	59.701	1.00 50.14	C
ATOM	1863	C	ALA	266	2.093	106.699	58.647	1.00 50.14	C
ATOM	1864	O	ALA	266	1.054	106.915	59.268	1.00 50.14	O
ATOM	1865	N	PHE	267	2.244	107.030	57.352	1.00127.86	N
ATOM	1866	CA	PHE	267	1.228	107.566	56.481	1.00127.86	C
ATOM	1867	CB	PHE	267	1.783	108.419	55.333	1.00127.86	C
ATOM	1868	CG	PHE	267	2.176	109.685	56.003	1.00127.86	C
ATOM	1869	CD1	PHE	267	1.220	110.637	56.275	1.00127.86	C
ATOM	1870	CD2	PHE	267	3.481	109.912	56.370	1.00127.86	C
ATOM	1871	CE1	PHE	267	1.562	111.809	56.901	1.00127.86	C
ATOM	1872	CE2	PHE	267	3.830	111.083	57.000	1.00127.86	C
ATOM	1873	CZ	PHE	267	2.871	112.031	57.262	1.00127.86	C
ATOM	1874	C	PHE	267	0.308	106.521	55.909	1.00127.86	C
ATOM	1875	O	PHE	267	-0.737	106.857	55.361	1.00127.86	O
ATOM	1876	N	GLY	268	0.708	105.238	55.862	1.00 51.76	N
ATOM	1877	CA	GLY	268	-0.231	104.253	55.375	1.00 51.76	C
ATOM	1878	C	GLY	268	-0.294	104.231	53.867	1.00 51.76	C
ATOM	1879	O	GLY	268	-1.309	103.861	53.280	1.00 51.76	O
ATOM	1880	N	GLY	269	0.805	104.656	53.227	1.00 98.35	N
ATOM	1881	CA	GLY	269	1.121	104.733	51.823	1.00 98.35	C
ATOM	1882	C	GLY	269	1.402	103.389	51.215	1.00 98.35	C
ATOM	1883	O	GLY	269	1.783	103.312	50.050	1.00 98.35	O
ATOM	1884	N	GLN	270	1.370	102.301	52.001	1.00211.63	N
ATOM	1885	CA	GLN	270	1.841	101.035	51.509	1.00211.63	C
ATOM	1886	CB	GLN	270	1.905	99.908	52.562	1.00211.63	C
ATOM	1887	CG	GLN	270	0.672	99.709	53.431	1.00211.63	C
ATOM	1888	CD	GLN	270	1.040	100.304	54.785	1.00211.63	C
ATOM	1889	OE1	GLN	270	2.160	100.763	54.999	1.00211.63	O
ATOM	1890	NE2	GLN	270	0.081	100.292	55.741	1.00211.63	N
ATOM	1891	C	GLN	270	1.209	100.566	50.227	1.00211.63	C
ATOM	1892	O	GLN	270	1.835	99.782	49.514	1.00211.63	O

ATOM	1893	N	LYS	271	-0.060	100.905	49.939	1.00179.22	N
ATOM	1894	CA	LYS	271	-0.637	100.557	48.664	1.00179.22	C
ATOM	1895	CB	LYS	271	-2.167	100.594	48.690	1.00179.22	C
ATOM	1896	CG	LYS	271	-2.764	99.810	47.529	1.00179.22	C
ATOM	1897	CD	LYS	271	-2.460	98.315	47.617	1.00179.22	C
ATOM	1898	CE	LYS	271	-2.953	97.672	48.914	1.00179.22	C
ATOM	1899	NZ	LYS	271	-2.845	96.200	48.819	1.00179.22	N
ATOM	1900	C	LYS	271	-0.176	101.468	47.551	1.00179.22	C
ATOM	1901	O	LYS	271	-0.014	101.043	46.408	1.00179.22	O
ATOM	1902	N	LYS	272	-0.002	102.769	47.856	1.00150.60	N
ATOM	1903	CA	LYS	272	0.313	103.782	46.883	1.00150.60	C
ATOM	1904	CB	LYS	272	0.241	105.186	47.514	1.00150.60	C
ATOM	1905	CG	LYS	272	0.010	106.328	46.523	1.00150.60	C
ATOM	1906	CD	LYS	272	1.139	106.539	45.520	1.00150.60	C
ATOM	1907	CE	LYS	272	0.828	107.622	44.485	1.00150.60	C
ATOM	1908	NZ	LYS	272	0.678	108.933	45.155	1.00150.60	N
ATOM	1909	C	LYS	272	1.687	103.576	46.302	1.00150.60	C
ATOM	1910	O	LYS	272	1.895	103.778	45.107	1.00150.60	O
ATOM	1911	N	GLU	273	2.666	103.190	47.141	1.00178.52	N
ATOM	1912	CA	GLU	273	4.035	103.000	46.741	1.00178.52	C
ATOM	1913	CB	GLU	273	4.964	102.871	47.956	1.00178.52	C
ATOM	1914	CG	GLU	273	6.387	103.324	47.652	1.00178.52	C
ATOM	1915	CD	GLU	273	6.353	104.828	47.398	1.00178.52	C
ATOM	1916	OE1	GLU	273	5.639	105.549	48.146	1.00178.52	O
ATOM	1917	OE2	GLU	273	7.052	105.277	46.450	1.00178.52	O
ATOM	1918	C	GLU	273	4.156	101.788	45.878	1.00178.52	C
ATOM	1919	O	GLU	273	5.094	101.654	45.093	1.00178.52	O
ATOM	1920	N	LEU	274	3.231	100.835	46.063	1.00 62.81	N
ATOM	1921	CA	LEU	274	3.223	99.623	45.307	1.00 62.81	C
ATOM	1922	CB	LEU	274	2.138	98.656	45.805	1.00 62.81	C
ATOM	1923	CG	LEU	274	2.113	97.308	45.070	1.00 62.81	C
ATOM	1924	CD1	LEU	274	3.451	96.567	45.220	1.00 62.81	C
ATOM	1925	CD2	LEU	274	0.923	96.460	45.544	1.00 62.81	C
ATOM	1926	C	LEU	274	2.965	99.948	43.867	1.00 62.81	C
ATOM	1927	O	LEU	274	3.562	99.350	42.975	1.00 62.81	O
ATOM	1928	N	GLU	275	2.061	100.909	43.607	1.00111.59	N
ATOM	1929	CA	GLU	275	1.680	101.275	42.272	1.00111.59	C
ATOM	1930	CB	GLU	275	0.503	102.266	42.267	1.00111.59	C
ATOM	1931	CG	GLU	275	-0.030	102.604	40.875	1.00111.59	C
ATOM	1932	CD	GLU	275	0.719	103.829	40.373	1.00111.59	C
ATOM	1933	OE1	GLU	275	0.331	104.958	40.777	1.00111.59	O
ATOM	1934	OE2	GLU	275	1.687	103.656	39.587	1.00111.59	O
ATOM	1935	C	GLU	275	2.839	101.884	41.537	1.00111.59	C
ATOM	1936	O	GLU	275	3.058	101.583	40.365	1.00111.59	O
ATOM	1937	N	ARG	276	3.621	102.755	42.204	1.00116.95	N
ATOM	1938	CA	ARG	276	4.724	103.414	41.562	1.00116.95	C
ATOM	1939	CB	ARG	276	5.462	104.393	42.489	1.00116.95	C
ATOM	1940	CG	ARG	276	4.701	105.677	42.819	1.00116.95	C
ATOM	1941	CD	ARG	276	5.520	106.616	43.705	1.00116.95	C
ATOM	1942	NE	ARG	276	6.897	106.645	43.134	1.00116.95	N
ATOM	1943	CZ	ARG	276	7.837	107.505	43.624	1.00116.95	C
ATOM	1944	NH1	ARG	276	7.535	108.336	44.661	1.00116.95	N
ATOM	1945	NH2	ARG	276	9.083	107.538	43.065	1.00116.95	N
ATOM	1946	C	ARG	276	5.742	102.399	41.150	1.00116.95	C
ATOM	1947	O	ARG	276	6.299	102.465	40.056	1.00116.95	O
ATOM	1948	N	TYR	277	6.018	101.436	42.042	1.00 88.89	N
ATOM	1949	CA	TYR	277	6.976	100.399	41.802	1.00 88.89	C
ATOM	1950	CB	TYR	277	7.161	99.496	43.036	1.00 88.89	C
ATOM	1951	CG	TYR	277	8.053	98.351	42.694	1.00 88.89	C
ATOM	1952	CD1	TYR	277	9.407	98.535	42.534	1.00 88.89	C
ATOM	1953	CD2	TYR	277	7.534	97.083	42.556	1.00 88.89	C
ATOM	1954	CE1	TYR	277	10.226	97.473	42.228	1.00 88.89	C
ATOM	1955	CE2	TYR	277	8.348	96.018	42.252	1.00 88.89	C
ATOM	1956	CZ	TYR	277	9.697	96.214	42.086	1.00 88.89	C
ATOM	1957	OH	TYR	277	10.538	95.125	41.773	1.00 88.89	O
ATOM	1958	C	TYR	277	6.478	99.560	40.671	1.00 88.89	C
ATOM	1959	O	TYR	277	7.256	99.068	39.857	1.00 88.89	O
ATOM	1960	N	ASN	278	5.156	99.336	40.637	1.00 69.37	N
ATOM	1961	CA	ASN	278	4.512	98.518	39.651	1.00 69.37	C
ATOM	1962	CB	ASN	278	3.039	98.255	40.013	1.00 69.37	C
ATOM	1963	CG	ASN	278	2.490	97.173	39.098	1.00 69.37	C
ATOM	1964	OD1	ASN	278	3.091	96.112	38.941	1.00 69.37	O
ATOM	1965	ND2	ASN	278	1.309	97.445	38.481	1.00 69.37	N
ATOM	1966	C	ASN	278	4.544	99.155	38.290	1.00 69.37	C

ATOM	1967	O	ASN	278	4.824	98.490	37.295	1.00	69.37	O
ATOM	1968	N	LYS	279	4.285	100.472	38.210	1.00	114.83	N
ATOM	1969	CA	LYS	279	4.157	101.136	36.941	1.00	114.83	C
ATOM	1970	CB	LYS	279	3.839	102.630	37.090	1.00	114.83	C
ATOM	1971	CG	LYS	279	3.698	103.355	35.753	1.00	114.83	C
ATOM	1972	CD	LYS	279	3.052	104.733	35.887	1.00	114.83	C
ATOM	1973	CE	LYS	279	3.912	105.736	36.656	1.00	114.83	C
ATOM	1974	NZ	LYS	279	3.213	107.037	36.738	1.00	114.83	N
ATOM	1975	C	LYS	279	5.433	101.026	36.162	1.00	114.83	C
ATOM	1976	O	LYS	279	5.403	100.881	34.943	1.00	114.83	O
ATOM	1977	N	ASN	280	6.580	101.151	36.851	1.00	104.50	N
ATOM	1978	CA	ASN	280	7.915	101.105	36.308	1.00	104.50	C
ATOM	1979	CB	ASN	280	8.959	101.764	37.225	1.00	104.50	C
ATOM	1980	CG	ASN	280	8.680	103.260	37.239	1.00	104.50	C
ATOM	1981	OD1	ASN	280	7.574	103.701	36.929	1.00	104.50	O
ATOM	1982	ND2	ASN	280	9.715	104.066	37.596	1.00	104.50	N
ATOM	1983	C	ASN	280	8.391	99.704	36.024	1.00	104.50	C
ATOM	1984	O	ASN	280	9.491	99.542	35.502	1.00	104.50	O
ATOM	1985	N	LEU	281	7.668	98.683	36.525	1.00	185.58	N
ATOM	1986	CA	LEU	281	7.989	97.275	36.509	1.00	185.58	C
ATOM	1987	CB	LEU	281	7.119	96.541	37.551	1.00	185.58	C
ATOM	1988	CG	LEU	281	7.711	95.258	38.173	1.00	185.58	C
ATOM	1989	CD1	LEU	281	8.102	94.190	37.155	1.00	185.58	C
ATOM	1990	CD2	LEU	281	8.859	95.608	39.124	1.00	185.58	C
ATOM	1991	C	LEU	281	7.807	96.587	35.171	1.00	185.58	C
ATOM	1992	O	LEU	281	8.514	95.627	34.866	1.00	185.58	O
ATOM	1993	N	GLU	282	6.814	97.007	34.360	1.00	151.42	N
ATOM	1994	CA	GLU	282	6.452	96.329	33.140	1.00	151.42	C
ATOM	1995	CB	GLU	282	5.100	96.780	32.556	1.00	151.42	C
ATOM	1996	CG	GLU	282	5.078	98.208	32.021	1.00	151.42	C
ATOM	1997	CD	GLU	282	5.631	98.176	30.606	1.00	151.42	C
ATOM	1998	OE1	GLU	282	5.690	97.063	30.018	1.00	151.42	O
ATOM	1999	OE2	GLU	282	6.001	99.265	30.093	1.00	151.42	O
ATOM	2000	C	GLU	282	7.500	96.425	32.064	1.00	151.42	C
ATOM	2001	O	GLU	282	7.554	95.556	31.197	1.00	151.42	O
ATOM	2002	N	GLU	283	8.339	97.481	32.045	1.00	98.77	N
ATOM	2003	CA	GLU	283	9.261	97.639	30.949	1.00	98.77	C
ATOM	2004	CB	GLU	283	10.109	98.924	31.030	1.00	98.77	C
ATOM	2005	CG	GLU	283	11.011	99.030	32.260	1.00	98.77	C
ATOM	2006	CD	GLU	283	11.769	100.347	32.155	1.00	98.77	C
ATOM	2007	OE1	GLU	283	11.934	100.841	31.006	1.00	98.77	O
ATOM	2008	OE2	GLU	283	12.191	100.878	33.215	1.00	98.77	O
ATOM	2009	C	GLU	283	10.194	96.465	30.845	1.00	98.77	C
ATOM	2010	O	GLU	283	10.421	95.949	29.753	1.00	98.77	O
ATOM	2011	N	ALA	284	10.750	96.003	31.977	1.00	67.53	N
ATOM	2012	CA	ALA	284	11.667	94.900	32.042	1.00	67.53	C
ATOM	2013	CB	ALA	284	12.244	94.680	33.452	1.00	67.53	C
ATOM	2014	C	ALA	284	10.966	93.639	31.636	1.00	67.53	C
ATOM	2015	O	ALA	284	11.603	92.674	31.228	1.00	67.53	O
ATOM	2016	N	LYS	285	9.646	93.561	31.867	1.00	90.99	N
ATOM	2017	CA	LYS	285	8.863	92.412	31.508	1.00	90.99	C
ATOM	2018	CB	LYS	285	7.411	92.596	31.966	1.00	90.99	C
ATOM	2019	CG	LYS	285	6.478	91.442	31.620	1.00	90.99	C
ATOM	2020	CD	LYS	285	5.056	91.698	32.110	1.00	90.99	C
ATOM	2021	CE	LYS	285	4.014	90.791	31.461	1.00	90.99	C
ATOM	2022	NZ	LYS	285	2.681	91.417	31.581	1.00	90.99	N
ATOM	2023	C	LYS	285	8.825	92.242	30.020	1.00	90.99	C
ATOM	2024	O	LYS	285	9.203	91.196	29.498	1.00	90.99	O
ATOM	2025	N	ARG	286	8.411	93.301	29.301	1.00	135.01	N
ATOM	2026	CA	ARG	286	8.227	93.273	27.878	1.00	135.01	C
ATOM	2027	CB	ARG	286	7.744	94.628	27.345	1.00	135.01	C
ATOM	2028	CG	ARG	286	6.412	95.061	27.956	1.00	135.01	C
ATOM	2029	CD	ARG	286	5.211	94.811	27.047	1.00	135.01	C
ATOM	2030	NE	ARG	286	5.355	95.726	25.882	1.00	135.01	N
ATOM	2031	CZ	ARG	286	4.376	95.776	24.933	1.00	135.01	C
ATOM	2032	NH1	ARG	286	3.257	95.007	25.073	1.00	135.01	N
ATOM	2033	NH2	ARG	286	4.517	96.591	23.848	1.00	135.01	N
ATOM	2034	C	ARG	286	9.545	92.989	27.242	1.00	135.01	C
ATOM	2035	O	ARG	286	9.628	92.211	26.295	1.00	135.01	O
ATOM	2036	N	ILE	287	10.612	93.628	27.754	1.00	35.43	N
ATOM	2037	CA	ILE	287	11.936	93.448	27.238	1.00	35.43	C
ATOM	2038	CB	ILE	287	12.959	94.303	27.929	1.00	35.43	C
ATOM	2039	CG1	ILE	287	12.653	95.795	27.723	1.00	35.43	C
ATOM	2040	CG2	ILE	287	14.348	93.882	27.419	1.00	35.43	C

ATOM	2041	CD1	ILE	287	13.479	96.711	28.623	1.00	35.43	C
ATOM	2042	C	ILE	287	12.338	92.027	27.466	1.00	35.43	C
ATOM	2043	O	ILE	287	12.945	91.396	26.604	1.00	35.43	O
ATOM	2044	N	GLY	288	11.997	91.486	28.648	1.00	40.90	N
ATOM	2045	CA	GLY	288	12.372	90.154	29.022	1.00	40.90	C
ATOM	2046	C	GLY	288	11.776	89.169	28.064	1.00	40.90	C
ATOM	2047	O	GLY	288	12.371	88.127	27.796	1.00	40.90	O
ATOM	2048	N	ILE	289	10.549	89.432	27.574	1.00	111.76	N
ATOM	2049	CA	ILE	289	9.957	88.538	26.620	1.00	111.76	C
ATOM	2050	CB	ILE	289	8.528	88.817	26.240	1.00	111.76	C
ATOM	2051	CG1	ILE	289	7.544	88.370	27.339	1.00	111.76	C
ATOM	2052	CG2	ILE	289	8.277	88.108	24.897	1.00	111.76	C
ATOM	2053	CD1	ILE	289	7.559	89.197	28.617	1.00	111.76	C
ATOM	2054	C	ILE	289	10.761	88.558	25.363	1.00	111.76	C
ATOM	2055	O	ILE	289	10.967	87.518	24.747	1.00	111.76	O
ATOM	2056	N	LYS	290	11.247	89.740	24.944	1.00	101.73	N
ATOM	2057	CA	LYS	290	11.982	89.827	23.717	1.00	101.73	C
ATOM	2058	CB	LYS	290	12.488	91.244	23.393	1.00	101.73	C
ATOM	2059	CG	LYS	290	11.437	92.142	22.736	1.00	101.73	C
ATOM	2060	CD	LYS	290	10.261	92.491	23.644	1.00	101.73	C
ATOM	2061	CE	LYS	290	9.219	93.389	22.977	1.00	101.73	C
ATOM	2062	NZ	LYS	290	8.120	93.675	23.926	1.00	101.73	N
ATOM	2063	C	LYS	290	13.173	88.923	23.798	1.00	101.73	C
ATOM	2064	O	LYS	290	13.597	88.379	22.782	1.00	101.73	O
ATOM	2065	N	LYS	291	13.813	88.804	24.977	1.00	146.65	N
ATOM	2066	CA	LYS	291	14.905	87.877	25.093	1.00	146.65	C
ATOM	2067	CB	LYS	291	15.785	88.108	26.339	1.00	146.65	C
ATOM	2068	CG	LYS	291	15.168	87.686	27.672	1.00	146.65	C
ATOM	2069	CD	LYS	291	16.157	87.747	28.841	1.00	146.65	C
ATOM	2070	CE	LYS	291	17.502	87.076	28.557	1.00	146.65	C
ATOM	2071	NZ	LYS	291	18.394	88.018	27.845	1.00	146.65	N
ATOM	2072	C	LYS	291	14.386	86.464	25.114	1.00	146.65	C
ATOM	2073	O	LYS	291	14.947	85.573	24.479	1.00	146.65	O
ATOM	2074	N	ALA	292	13.275	86.225	25.840	1.00	48.40	N
ATOM	2075	CA	ALA	292	12.748	84.897	26.005	1.00	48.40	C
ATOM	2076	CB	ALA	292	11.507	84.858	26.912	1.00	48.40	C
ATOM	2077	C	ALA	292	12.351	84.344	24.682	1.00	48.40	C
ATOM	2078	O	ALA	292	12.582	83.170	24.396	1.00	48.40	O
ATOM	2079	N	ILE	293	11.701	85.176	23.856	1.00	153.41	N
ATOM	2080	CA	ILE	293	11.293	84.744	22.560	1.00	153.41	C
ATOM	2081	CB	ILE	293	10.355	85.718	21.888	1.00	153.41	C
ATOM	2082	CG1	ILE	293	9.615	85.026	20.734	1.00	153.41	C
ATOM	2083	CG2	ILE	293	11.123	86.985	21.476	1.00	153.41	C
ATOM	2084	CD1	ILE	293	8.612	83.976	21.210	1.00	153.41	C
ATOM	2085	C	ILE	293	12.518	84.522	21.718	1.00	153.41	C
ATOM	2086	O	ILE	293	12.647	83.482	21.080	1.00	153.41	O
ATOM	2087	N	THR	294	13.482	85.468	21.740	1.00	139.09	N
ATOM	2088	CA	THR	294	14.648	85.401	20.902	1.00	139.09	C
ATOM	2089	CB	THR	294	15.549	86.599	20.987	1.00	139.09	C
ATOM	2090	OG1	THR	294	15.948	86.829	22.331	1.00	139.09	O
ATOM	2091	CG2	THR	294	14.838	87.820	20.400	1.00	139.09	C
ATOM	2092	C	THR	294	15.505	84.233	21.251	1.00	139.09	C
ATOM	2093	O	THR	294	16.092	83.609	20.369	1.00	139.09	O
ATOM	2094	N	ALA	295	15.627	83.910	22.546	1.00	45.60	N
ATOM	2095	CA	ALA	295	16.525	82.853	22.897	1.00	45.60	C
ATOM	2096	CB	ALA	295	16.578	82.601	24.414	1.00	45.60	C
ATOM	2097	C	ALA	295	16.073	81.582	22.241	1.00	45.60	C
ATOM	2098	O	ALA	295	16.886	80.813	21.732	1.00	45.60	O
ATOM	2099	N	ASN	296	14.756	81.317	22.266	1.00	68.53	N
ATOM	2100	CA	ASN	296	14.170	80.132	21.699	1.00	68.53	C
ATOM	2101	CB	ASN	296	12.751	79.884	22.229	1.00	68.53	C
ATOM	2102	CG	ASN	296	12.919	79.514	23.695	1.00	68.53	C
ATOM	2103	OD1	ASN	296	13.385	78.424	24.023	1.00	68.53	O
ATOM	2104	ND2	ASN	296	12.558	80.458	24.604	1.00	68.53	N
ATOM	2105	C	ASN	296	14.128	80.186	20.204	1.00	68.53	C
ATOM	2106	O	ASN	296	14.178	79.154	19.538	1.00	68.53	O
ATOM	2107	N	ILE	297	13.971	81.392	19.634	1.00	101.75	N
ATOM	2108	CA	ILE	297	13.921	81.542	18.210	1.00	101.75	C
ATOM	2109	CB	ILE	297	13.659	82.957	17.783	1.00	101.75	C
ATOM	2110	CG1	ILE	297	12.321	83.453	18.354	1.00	101.75	C
ATOM	2111	CG2	ILE	297	13.709	82.998	16.247	1.00	101.75	C
ATOM	2112	CD1	ILE	297	11.120	82.629	17.895	1.00	101.75	C
ATOM	2113	C	ILE	297	15.249	81.138	17.665	1.00	101.75	C
ATOM	2114	O	ILE	297	15.328	80.459	16.645	1.00	101.75	O

ATOM	2115	N	SER	298	16.339	81.540	18.341	1.00	98.90	N
ATOM	2116	CA	SER	298	17.643	81.233	17.841	1.00	98.90	C
ATOM	2117	CB	SER	298	18.783	81.862	18.668	1.00	98.90	C
ATOM	2118	OG	SER	298	18.711	81.464	20.026	1.00	98.90	O
ATOM	2119	C	SER	298	17.813	79.747	17.780	1.00	98.90	C
ATOM	2120	O	SER	298	18.463	79.250	16.862	1.00	98.90	O
ATOM	2121	N	ILE	299	17.269	78.994	18.763	1.00	148.39	N
ATOM	2122	CA	ILE	299	17.410	77.565	18.695	1.00	148.39	C
ATOM	2123	CB	ILE	299	17.116	76.857	19.994	1.00	148.39	C
ATOM	2124	CG1	ILE	299	17.640	75.413	19.933	1.00	148.39	C
ATOM	2125	CG2	ILE	299	15.624	76.968	20.325	1.00	148.39	C
ATOM	2126	CD1	ILE	299	19.165	75.329	19.892	1.00	148.39	C
ATOM	2127	C	ILE	299	16.565	76.990	17.587	1.00	148.39	C
ATOM	2128	O	ILE	299	17.074	76.288	16.714	1.00	148.39	O
ATOM	2129	N	GLY	300	15.261	77.336	17.553	1.00	37.63	N
ATOM	2130	CA	GLY	300	14.335	76.778	16.608	1.00	37.63	C
ATOM	2131	C	GLY	300	14.716	77.168	15.218	1.00	37.63	C
ATOM	2132	O	GLY	300	14.558	76.380	14.290	1.00	37.63	O
ATOM	2133	N	ALA	301	15.180	78.415	15.030	1.00	40.63	N
ATOM	2134	CA	ALA	301	15.539	78.883	13.723	1.00	40.63	C
ATOM	2135	CB	ALA	301	16.005	80.349	13.719	1.00	40.63	C
ATOM	2136	C	ALA	301	16.674	78.055	13.216	1.00	40.63	C
ATOM	2137	O	ALA	301	16.645	77.588	12.080	1.00	40.63	O
ATOM	2138	N	ALA	302	17.703	77.844	14.059	1.00	36.39	N
ATOM	2139	CA	ALA	302	18.848	77.064	13.684	1.00	36.39	C
ATOM	2140	CB	ALA	302	19.953	77.070	14.753	1.00	36.39	C
ATOM	2141	C	ALA	302	18.413	75.648	13.487	1.00	36.39	C
ATOM	2142	O	ALA	302	18.877	74.973	12.571	1.00	36.39	O
ATOM	2143	N	PHE	303	17.511	75.164	14.365	1.00	150.69	N
ATOM	2144	CA	PHE	303	17.011	73.818	14.297	1.00	150.69	C
ATOM	2145	CB	PHE	303	16.113	73.398	15.474	1.00	150.69	C
ATOM	2146	CG	PHE	303	16.989	72.791	16.510	1.00	150.69	C
ATOM	2147	CD1	PHE	303	17.366	71.476	16.359	1.00	150.69	C
ATOM	2148	CD2	PHE	303	17.422	73.492	17.611	1.00	150.69	C
ATOM	2149	CE1	PHE	303	18.173	70.862	17.284	1.00	150.69	C
ATOM	2150	CE2	PHE	303	18.231	72.880	18.540	1.00	150.69	C
ATOM	2151	CZ	PHE	303	18.607	71.568	18.380	1.00	150.69	C
ATOM	2152	C	PHE	303	16.229	73.586	13.038	1.00	150.69	C
ATOM	2153	O	PHE	303	16.313	72.509	12.451	1.00	150.69	O
ATOM	2154	N	LEU	304	15.423	74.570	12.600	1.00	56.79	N
ATOM	2155	CA	LEU	304	14.630	74.417	11.410	1.00	56.79	C
ATOM	2156	CB	LEU	304	13.783	75.666	11.105	1.00	56.79	C
ATOM	2157	CG	LEU	304	13.048	75.616	9.749	1.00	56.79	C
ATOM	2158	CD1	LEU	304	12.021	74.477	9.692	1.00	56.79	C
ATOM	2159	CD2	LEU	304	12.437	76.982	9.401	1.00	56.79	C
ATOM	2160	C	LEU	304	15.532	74.211	10.237	1.00	56.79	C
ATOM	2161	O	LEU	304	15.270	73.377	9.372	1.00	56.79	O
ATOM	2162	N	LEU	305	16.643	74.960	10.197	1.00	160.12	N
ATOM	2163	CA	LEU	305	17.527	74.929	9.074	1.00	160.12	C
ATOM	2164	CB	LEU	305	18.634	75.992	9.136	1.00	160.12	C
ATOM	2165	CG	LEU	305	19.383	76.108	7.800	1.00	160.12	C
ATOM	2166	CD1	LEU	305	18.390	76.393	6.663	1.00	160.12	C
ATOM	2167	CD2	LEU	305	20.498	77.165	7.865	1.00	160.12	C
ATOM	2168	C	LEU	305	18.144	73.573	8.949	1.00	160.12	C
ATOM	2169	O	LEU	305	18.585	73.205	7.862	1.00	160.12	O
ATOM	2170	N	ILE	306	18.292	72.840	10.072	1.00	101.40	N
ATOM	2171	CA	ILE	306	18.811	71.500	10.017	1.00	101.40	C
ATOM	2172	CB	ILE	306	19.073	70.935	11.383	1.00	101.40	C
ATOM	2173	CG1	ILE	306	20.126	71.787	12.111	1.00	101.40	C
ATOM	2174	CG2	ILE	306	19.483	69.462	11.221	1.00	101.40	C
ATOM	2175	CD1	ILE	306	21.468	71.850	11.381	1.00	101.40	C
ATOM	2176	C	ILE	306	17.819	70.601	9.328	1.00	101.40	C
ATOM	2177	O	ILE	306	18.165	69.853	8.414	1.00	101.40	O
ATOM	2178	N	TYR	307	16.538	70.666	9.740	1.00	63.89	N
ATOM	2179	CA	TYR	307	15.511	69.832	9.179	1.00	63.89	C
ATOM	2180	CB	TYR	307	14.156	69.972	9.899	1.00	63.89	C
ATOM	2181	CG	TYR	307	14.270	69.331	11.243	1.00	63.89	C
ATOM	2182	CD1	TYR	307	14.800	70.010	12.318	1.00	63.89	C
ATOM	2183	CD2	TYR	307	13.837	68.037	11.425	1.00	63.89	C
ATOM	2184	CE1	TYR	307	14.897	69.405	13.551	1.00	63.89	C
ATOM	2185	CE2	TYR	307	13.932	67.427	12.653	1.00	63.89	C
ATOM	2186	CZ	TYR	307	14.462	68.112	13.719	1.00	63.89	C
ATOM	2187	OH	TYR	307	14.560	67.488	14.981	1.00	63.89	O
ATOM	2188	C	TYR	307	15.316	70.193	7.743	1.00	63.89	C

ATOM	2189	O	TYR	307	15.072	69.320	6.911	1.00	63.89	O
ATOM	2190	N	ALA	308	15.368	71.502	7.424	1.00	34.41	N
ATOM	2191	CA	ALA	308	15.191	71.936	6.069	1.00	34.41	C
ATOM	2192	CB	ALA	308	15.178	73.468	5.927	1.00	34.41	C
ATOM	2193	C	ALA	308	16.320	71.408	5.236	1.00	34.41	C
ATOM	2194	O	ALA	308	16.103	70.883	4.146	1.00	34.41	O
ATOM	2195	N	SER	309	17.562	71.509	5.749	1.00	52.37	N
ATOM	2196	CA	SER	309	18.716	71.059	5.030	1.00	52.37	C
ATOM	2197	CB	SER	309	20.029	71.395	5.761	1.00	52.37	C
ATOM	2198	OG	SER	309	20.141	70.671	6.975	1.00	52.37	O
ATOM	2199	C	SER	309	18.627	69.575	4.877	1.00	52.37	C
ATOM	2200	O	SER	309	19.192	69.016	3.939	1.00	52.37	O
ATOM	2201	N	TYR	310	17.945	68.891	5.819	1.00	91.12	N
ATOM	2202	CA	TYR	310	17.762	67.470	5.710	1.00	91.12	C
ATOM	2203	CB	TYR	310	17.052	66.824	6.914	1.00	91.12	C
ATOM	2204	CG	TYR	310	18.057	66.318	7.886	1.00	91.12	C
ATOM	2205	CD1	TYR	310	18.767	67.142	8.729	1.00	91.12	C
ATOM	2206	CD2	TYR	310	18.266	64.960	7.948	1.00	91.12	C
ATOM	2207	CE1	TYR	310	19.681	66.605	9.609	1.00	91.12	C
ATOM	2208	CE2	TYR	310	19.173	64.419	8.823	1.00	91.12	C
ATOM	2209	CZ	TYR	310	19.885	65.245	9.656	1.00	91.12	C
ATOM	2210	OH	TYR	310	20.820	64.693	10.558	1.00	91.12	O
ATOM	2211	C	TYR	310	16.934	67.116	4.511	1.00	91.12	C
ATOM	2212	O	TYR	310	17.322	66.259	3.720	1.00	91.12	O
ATOM	2213	N	ALA	311	15.769	67.770	4.345	1.00	42.78	N
ATOM	2214	CA	ALA	311	14.865	67.455	3.272	1.00	42.78	C
ATOM	2215	CB	ALA	311	13.550	68.253	3.352	1.00	42.78	C
ATOM	2216	C	ALA	311	15.499	67.768	1.953	1.00	42.78	C
ATOM	2217	O	ALA	311	15.404	66.986	1.011	1.00	42.78	O
ATOM	2218	N	LEU	312	16.187	68.916	1.842	1.00	112.82	N
ATOM	2219	CA	LEU	312	16.757	69.280	0.576	1.00	112.82	C
ATOM	2220	CB	LEU	312	17.517	70.616	0.572	1.00	112.82	C
ATOM	2221	CG	LEU	312	16.647	71.878	0.483	1.00	112.82	C
ATOM	2222	CD1	LEU	312	15.722	72.048	1.696	1.00	112.82	C
ATOM	2223	CD2	LEU	312	17.534	73.103	0.221	1.00	112.82	C
ATOM	2224	C	LEU	312	17.766	68.260	0.160	1.00	112.82	C
ATOM	2225	O	LEU	312	17.917	67.986	-1.028	1.00	112.82	O
ATOM	2226	N	ALA	313	18.564	67.752	1.114	1.00	55.69	N
ATOM	2227	CA	ALA	313	19.550	66.754	0.809	1.00	55.69	C
ATOM	2228	CB	ALA	313	20.520	66.501	1.975	1.00	55.69	C
ATOM	2229	C	ALA	313	18.913	65.435	0.473	1.00	55.69	C
ATOM	2230	O	ALA	313	19.349	64.747	-0.449	1.00	55.69	O
ATOM	2231	N	PHE	314	17.893	65.026	1.258	1.00	77.96	N
ATOM	2232	CA	PHE	314	17.212	63.767	1.087	1.00	77.96	C
ATOM	2233	CB	PHE	314	16.302	63.407	2.277	1.00	77.96	C
ATOM	2234	CG	PHE	314	17.149	62.756	3.318	1.00	77.96	C
ATOM	2235	CD1	PHE	314	18.082	63.462	4.044	1.00	77.96	C
ATOM	2236	CD2	PHE	314	16.984	61.415	3.578	1.00	77.96	C
ATOM	2237	CE1	PHE	314	18.845	62.829	4.999	1.00	77.96	C
ATOM	2238	CE2	PHE	314	17.742	60.778	4.531	1.00	77.96	C
ATOM	2239	CZ	PHE	314	18.678	61.486	5.244	1.00	77.96	C
ATOM	2240	C	PHE	314	16.381	63.741	-0.157	1.00	77.96	C
ATOM	2241	O	PHE	314	16.376	62.754	-0.890	1.00	77.96	O
ATOM	2242	N	TRP	315	15.645	64.830	-0.427	1.00	53.02	N
ATOM	2243	CA	TRP	315	14.779	64.884	-1.565	1.00	53.02	C
ATOM	2244	CB	TRP	315	14.028	66.223	-1.666	1.00	53.02	C
ATOM	2245	CG	TRP	315	13.078	66.324	-2.836	1.00	53.02	C
ATOM	2246	CD2	TRP	315	13.422	66.905	-4.103	1.00	53.02	C
ATOM	2247	CD1	TRP	315	11.776	65.929	-2.933	1.00	53.02	C
ATOM	2248	NE1	TRP	315	11.286	66.226	-4.182	1.00	53.02	N
ATOM	2249	CE2	TRP	315	12.289	66.829	-4.912	1.00	53.02	C
ATOM	2250	CE3	TRP	315	14.585	67.459	-4.553	1.00	53.02	C
ATOM	2251	CZ2	TRP	315	12.302	67.307	-6.191	1.00	53.02	C
ATOM	2252	CZ3	TRP	315	14.597	67.939	-5.844	1.00	53.02	C
ATOM	2253	CH2	TRP	315	13.477	67.864	-6.646	1.00	53.02	C
ATOM	2254	C	TRP	315	15.620	64.724	-2.793	1.00	53.02	C
ATOM	2255	O	TRP	315	15.272	63.971	-3.699	1.00	53.02	O
ATOM	2256	N	TYR	316	16.744	65.459	-2.856	1.00	62.39	N
ATOM	2257	CA	TYR	316	17.673	65.427	-3.951	1.00	62.39	C
ATOM	2258	CB	TYR	316	18.704	66.567	-3.842	1.00	62.39	C
ATOM	2259	CG	TYR	316	19.586	66.569	-5.043	1.00	62.39	C
ATOM	2260	CD1	TYR	316	19.141	67.094	-6.234	1.00	62.39	C
ATOM	2261	CD2	TYR	316	20.865	66.067	-4.973	1.00	62.39	C
ATOM	2262	CE1	TYR	316	19.954	67.105	-7.344	1.00	62.39	C

ATOM	2263	CE2	TYR	316	21.682	66.076	-6.079	1.00	62.39	C
ATOM	2264	CZ	TYR	316	21.227	66.595	-7.267	1.00	62.39	C
ATOM	2265	OH	TYR	316	22.065	66.605	-8.402	1.00	62.39	O
ATOM	2266	C	TYR	316	18.406	64.113	-3.974	1.00	62.39	C
ATOM	2267	O	TYR	316	18.651	63.543	-5.036	1.00	62.39	O
ATOM	2268	N	GLY	317	18.799	63.604	-2.791	1.00	38.91	N
ATOM	2269	CA	GLY	317	19.558	62.385	-2.693	1.00	38.91	C
ATOM	2270	C	GLY	317	18.757	61.225	-3.205	1.00	38.91	C
ATOM	2271	O	GLY	317	19.308	60.295	-3.794	1.00	38.91	O
ATOM	2272	N	THR	318	17.437	61.224	-2.937	1.00	115.06	N
ATOM	2273	CA	THR	318	16.585	60.144	-3.351	1.00	115.06	C
ATOM	2274	CB	THR	318	15.200	60.217	-2.772	1.00	115.06	C
ATOM	2275	OG1	THR	318	14.518	58.992	-2.992	1.00	115.06	O
ATOM	2276	CG2	THR	318	14.432	61.372	-3.434	1.00	115.06	C
ATOM	2277	C	THR	318	16.460	60.123	-4.847	1.00	115.06	C
ATOM	2278	O	THR	318	16.385	59.054	-5.448	1.00	115.06	O
ATOM	2279	N	THR	319	16.427	61.301	-5.500	1.00	109.46	N
ATOM	2280	CA	THR	319	16.239	61.314	-6.926	1.00	109.46	C
ATOM	2281	CB	THR	319	16.125	62.692	-7.514	1.00	109.46	C
ATOM	2282	OG1	THR	319	15.633	62.610	-8.843	1.00	109.46	O
ATOM	2283	CG2	THR	319	17.512	63.353	-7.520	1.00	109.46	C
ATOM	2284	C	THR	319	17.388	60.627	-7.602	1.00	109.46	C
ATOM	2285	O	THR	319	17.213	59.979	-8.632	1.00	109.46	O
ATOM	2286	N	LEU	320	18.604	60.786	-7.053	1.00	83.21	N
ATOM	2287	CA	LEU	320	19.802	60.225	-7.619	1.00	83.21	C
ATOM	2288	CB	LEU	320	21.069	60.782	-6.955	1.00	83.21	C
ATOM	2289	CG	LEU	320	21.161	62.313	-7.102	1.00	83.21	C
ATOM	2290	CD1	LEU	320	22.535	62.846	-6.670	1.00	83.21	C
ATOM	2291	CD2	LEU	320	20.753	62.765	-8.513	1.00	83.21	C
ATOM	2292	C	LEU	320	19.819	58.721	-7.537	1.00	83.21	C
ATOM	2293	O	LEU	320	20.431	58.062	-8.377	1.00	83.21	O
ATOM	2294	N	VAL	321	19.236	58.133	-6.475	1.00	123.86	N
ATOM	2295	CA	VAL	321	19.209	56.698	-6.330	1.00	123.86	C
ATOM	2296	CB	VAL	321	18.852	56.253	-4.941	1.00	123.86	C
ATOM	2297	CG1	VAL	321	17.387	56.623	-4.662	1.00	123.86	C
ATOM	2298	CG2	VAL	321	19.148	54.749	-4.820	1.00	123.86	C
ATOM	2299	C	VAL	321	18.236	56.045	-7.280	1.00	123.86	C
ATOM	2300	O	VAL	321	18.486	54.926	-7.724	1.00	123.86	O
ATOM	2301	N	LEU	322	17.095	56.701	-7.603	1.00	112.00	N
ATOM	2302	CA	LEU	322	16.099	56.118	-8.472	1.00	112.00	C
ATOM	2303	CB	LEU	322	14.873	57.012	-8.746	1.00	112.00	C
ATOM	2304	CG	LEU	322	13.793	56.987	-7.646	1.00	112.00	C
ATOM	2305	CD1	LEU	322	14.326	57.464	-6.290	1.00	112.00	C
ATOM	2306	CD2	LEU	322	12.540	57.757	-8.093	1.00	112.00	C
ATOM	2307	C	LEU	322	16.730	55.825	-9.777	1.00	112.00	C
ATOM	2308	O	LEU	322	16.472	54.793	-10.396	1.00	112.00	O
ATOM	2309	N	SER	323	17.619	56.716	-10.230	1.00	163.16	N
ATOM	2310	CA	SER	323	18.363	56.407	-11.407	1.00	163.16	C
ATOM	2311	CB	SER	323	19.163	57.606	-11.961	1.00	163.16	C
ATOM	2312	OG	SER	323	20.064	58.104	-10.984	1.00	163.16	O
ATOM	2313	C	SER	323	19.306	55.309	-10.991	1.00	163.16	C
ATOM	2314	O	SER	323	19.047	54.487	-10.127	1.00	163.16	O
ATOM	2315	N	GLY	324	20.342	55.060	-11.752	1.00	169.25	N
ATOM	2316	CA	GLY	324	21.316	54.097	-11.329	1.00	169.25	C
ATOM	2317	C	GLY	324	22.397	54.740	-10.548	1.00	169.25	C
ATOM	2318	O	GLY	324	23.260	54.064	-9.993	1.00	169.25	O
ATOM	2319	N	GLU	325	22.417	56.077	-10.615	1.00	169.52	N
ATOM	2320	CA	GLU	325	23.533	56.908	-10.289	1.00	169.52	C
ATOM	2321	CB	GLU	325	23.067	58.365	-10.309	1.00	169.52	C
ATOM	2322	CG	GLU	325	24.173	59.399	-10.372	1.00	169.52	C
ATOM	2323	CD	GLU	325	23.475	60.717	-10.659	1.00	169.52	C
ATOM	2324	OE1	GLU	325	22.234	60.681	-10.878	1.00	169.52	O
ATOM	2325	OE2	GLU	325	24.165	61.772	-10.667	1.00	169.52	O
ATOM	2326	C	GLU	325	24.150	56.621	-8.954	1.00	169.52	C
ATOM	2327	O	GLU	325	25.330	56.277	-8.896	1.00	169.52	O
ATOM	2328	N	TYR	326	23.382	56.689	-7.855	1.00	168.22	N
ATOM	2329	CA	TYR	326	23.959	56.494	-6.556	1.00	168.22	C
ATOM	2330	CB	TYR	326	23.702	57.653	-5.572	1.00	168.22	C
ATOM	2331	CG	TYR	326	24.500	58.855	-5.941	1.00	168.22	C
ATOM	2332	CD1	TYR	326	24.011	59.781	-6.832	1.00	168.22	C
ATOM	2333	CD2	TYR	326	25.744	59.056	-5.387	1.00	168.22	C
ATOM	2334	CE1	TYR	326	24.751	60.892	-7.163	1.00	168.22	C
ATOM	2335	CE2	TYR	326	26.488	60.164	-5.713	1.00	168.22	C
ATOM	2336	CZ	TYR	326	25.991	61.084	-6.604	1.00	168.22	C

ATOM	2337	OH	TYR	326	26.754	62.222	-6.940	1.00168.22	O
ATOM	2338	C	TYR	326	23.268	55.329	-5.940	1.00168.22	C
ATOM	2339	O	TYR	326	22.258	54.850	-6.455	1.00168.22	O
ATOM	2340	N	SER	327	23.874	54.791	-4.863	1.00 62.67	N
ATOM	2341	CA	SER	327	23.248	53.762	-4.095	1.00 62.67	C
ATOM	2342	CB	SER	327	24.219	52.654	-3.649	1.00 62.67	C
ATOM	2343	OG	SER	327	23.533	51.668	-2.892	1.00 62.67	O
ATOM	2344	C	SER	327	22.738	54.443	-2.861	1.00 62.67	C
ATOM	2345	O	SER	327	22.909	55.651	-2.704	1.00 62.67	O
ATOM	2346	N	ILE	328	22.059	53.687	-1.976	1.00132.62	N
ATOM	2347	CA	ILE	328	21.592	54.190	-0.720	1.00132.62	C
ATOM	2348	CB	ILE	328	20.854	53.179	0.100	1.00132.62	C
ATOM	2349	CG1	ILE	328	19.524	52.774	-0.528	1.00132.62	C
ATOM	2350	CG2	ILE	328	20.721	53.737	1.522	1.00132.62	C
ATOM	2351	CD1	ILE	328	18.920	51.580	0.201	1.00132.62	C
ATOM	2352	C	ILE	328	22.792	54.489	0.112	1.00132.62	C
ATOM	2353	O	ILE	328	22.801	55.420	0.911	1.00132.62	O
ATOM	2354	N	GLY	329	23.820	53.636	-0.007	1.00 32.13	N
ATOM	2355	CA	GLY	329	25.000	53.768	0.795	1.00 32.13	C
ATOM	2356	C	GLY	329	25.700	55.053	0.507	1.00 32.13	C
ATOM	2357	O	GLY	329	26.242	55.687	1.411	1.00 32.13	O
ATOM	2358	N	GLN	330	25.740	55.453	-0.773	1.00 61.49	N
ATOM	2359	CA	GLN	330	26.466	56.636	-1.125	1.00 61.49	C
ATOM	2360	CB	GLN	330	26.597	56.830	-2.644	1.00 61.49	C
ATOM	2361	CG	GLN	330	27.448	55.730	-3.284	1.00 61.49	C
ATOM	2362	CD	GLN	330	27.699	56.087	-4.740	1.00 61.49	C
ATOM	2363	OE1	GLN	330	26.770	56.203	-5.536	1.00 61.49	O
ATOM	2364	NE2	GLN	330	28.999	56.272	-5.096	1.00 61.49	N
ATOM	2365	C	GLN	330	25.819	57.846	-0.524	1.00 61.49	C
ATOM	2366	O	GLN	330	26.509	58.721	-0.003	1.00 61.49	O
ATOM	2367	N	VAL	331	24.475	57.929	-0.566	1.00104.46	N
ATOM	2368	CA	VAL	331	23.812	59.088	-0.042	1.00104.46	C
ATOM	2369	CB	VAL	331	22.330	59.080	-0.301	1.00104.46	C
ATOM	2370	CG1	VAL	331	21.691	57.882	0.424	1.00104.46	C
ATOM	2371	CG2	VAL	331	21.760	60.446	0.116	1.00104.46	C
ATOM	2372	C	VAL	331	24.042	59.187	1.439	1.00104.46	C
ATOM	2373	O	VAL	331	24.356	60.255	1.961	1.00104.46	O
ATOM	2374	N	LEU	332	23.918	58.059	2.159	1.00 79.53	N
ATOM	2375	CA	LEU	332	24.033	58.059	3.592	1.00 79.53	C
ATOM	2376	CB	LEU	332	23.694	56.686	4.204	1.00 79.53	C
ATOM	2377	CG	LEU	332	22.246	56.233	3.908	1.00 79.53	C
ATOM	2378	CD1	LEU	332	21.891	54.940	4.660	1.00 79.53	C
ATOM	2379	CD2	LEU	332	21.237	57.365	4.165	1.00 79.53	C
ATOM	2380	C	LEU	332	25.420	58.455	4.009	1.00 79.53	C
ATOM	2381	O	LEU	332	25.595	59.103	5.039	1.00 79.53	O
ATOM	2382	N	THR	333	26.466	58.030	3.274	1.00131.70	N
ATOM	2383	CA	THR	333	27.789	58.426	3.678	1.00131.70	C
ATOM	2384	CB	THR	333	28.889	57.732	2.924	1.00131.70	C
ATOM	2385	OG1	THR	333	28.785	57.988	1.531	1.00131.70	O
ATOM	2386	CG2	THR	333	28.816	56.227	3.203	1.00131.70	C
ATOM	2387	C	THR	333	27.996	59.900	3.479	1.00131.70	C
ATOM	2388	O	THR	333	28.418	60.605	4.394	1.00131.70	O
ATOM	2389	N	VAL	334	27.666	60.412	2.278	1.00117.61	N
ATOM	2390	CA	VAL	334	27.958	61.775	1.931	1.00117.61	C
ATOM	2391	CB	VAL	334	27.540	62.129	0.533	1.00117.61	C
ATOM	2392	CG1	VAL	334	27.900	63.601	0.287	1.00117.61	C
ATOM	2393	CG2	VAL	334	28.186	61.156	-0.461	1.00117.61	C
ATOM	2394	C	VAL	334	27.202	62.713	2.816	1.00117.61	C
ATOM	2395	O	VAL	334	27.752	63.714	3.275	1.00117.61	O
ATOM	2396	N	PHE	335	25.911	62.429	3.064	1.00 73.46	N
ATOM	2397	CA	PHE	335	25.124	63.349	3.836	1.00 73.46	C
ATOM	2398	CB	PHE	335	23.641	62.960	3.971	1.00 73.46	C
ATOM	2399	CG	PHE	335	23.002	63.974	4.868	1.00 73.46	C
ATOM	2400	CD1	PHE	335	22.686	65.232	4.407	1.00 73.46	C
ATOM	2401	CD2	PHE	335	22.710	63.662	6.176	1.00 73.46	C
ATOM	2402	CE1	PHE	335	22.096	66.158	5.237	1.00 73.46	C
ATOM	2403	CE2	PHE	335	22.120	64.583	7.011	1.00 73.46	C
ATOM	2404	CZ	PHE	335	21.813	65.837	6.542	1.00 73.46	C
ATOM	2405	C	PHE	335	25.677	63.478	5.219	1.00 73.46	C
ATOM	2406	O	PHE	335	25.832	64.589	5.721	1.00 73.46	O
ATOM	2407	N	PHE	336	25.967	62.350	5.894	1.00 69.86	N
ATOM	2408	CA	PHE	336	26.493	62.458	7.227	1.00 69.86	C
ATOM	2409	CB	PHE	336	26.596	61.113	7.972	1.00 69.86	C
ATOM	2410	CG	PHE	336	25.215	60.606	8.225	1.00 69.86	C

ATOM	2411	CD1	PHE	336	24.370	61.275	9.079	1.00	69.86	C
ATOM	2412	CD2	PHE	336	24.776	59.442	7.636	1.00	69.86	C
ATOM	2413	CE1	PHE	336	23.099	60.806	9.321	1.00	69.86	C
ATOM	2414	CE2	PHE	336	23.508	58.967	7.874	1.00	69.86	C
ATOM	2415	CZ	PHE	336	22.664	59.650	8.717	1.00	69.86	C
ATOM	2416	C	PHE	336	27.870	63.055	7.188	1.00	69.86	C
ATOM	2417	O	PHE	336	28.160	64.019	7.895	1.00	69.86	O
ATOM	2418	N	SER	337	28.737	62.542	6.295	1.00	57.71	N
ATOM	2419	CA	SER	337	30.124	62.922	6.267	1.00	57.71	C
ATOM	2420	CB	SER	337	30.890	62.243	5.117	1.00	57.71	C
ATOM	2421	OG	SER	337	30.877	60.833	5.287	1.00	57.71	O
ATOM	2422	C	SER	337	30.245	64.404	6.087	1.00	57.71	C
ATOM	2423	O	SER	337	31.216	64.999	6.555	1.00	57.71	O
ATOM	2424	N	VAL	338	29.317	65.037	5.343	1.00	132.78	N
ATOM	2425	CA	VAL	338	29.368	66.470	5.239	1.00	132.78	C
ATOM	2426	CB	VAL	338	28.500	67.062	4.154	1.00	132.78	C
ATOM	2427	CG1	VAL	338	29.046	66.635	2.786	1.00	132.78	C
ATOM	2428	CG2	VAL	338	27.040	66.653	4.375	1.00	132.78	C
ATOM	2429	C	VAL	338	28.960	67.074	6.544	1.00	132.78	C
ATOM	2430	O	VAL	338	29.582	68.019	7.012	1.00	132.78	O
ATOM	2431	N	LEU	339	27.910	66.531	7.182	1.00	150.84	N
ATOM	2432	CA	LEU	339	27.371	67.078	8.393	1.00	150.84	C
ATOM	2433	CB	LEU	339	26.148	66.250	8.822	1.00	150.84	C
ATOM	2434	CG	LEU	339	25.226	66.903	9.859	1.00	150.84	C
ATOM	2435	CD1	LEU	339	24.437	68.068	9.239	1.00	150.84	C
ATOM	2436	CD2	LEU	339	24.306	65.858	10.502	1.00	150.84	C
ATOM	2437	C	LEU	339	28.423	66.989	9.462	1.00	150.84	C
ATOM	2438	O	LEU	339	28.637	67.941	10.210	1.00	150.84	O
ATOM	2439	N	ILE	340	29.121	65.838	9.564	1.00	89.02	N
ATOM	2440	CA	ILE	340	30.141	65.706	10.568	1.00	89.02	C
ATOM	2441	CB	ILE	340	30.747	64.326	10.666	1.00	89.02	C
ATOM	2442	CG1	ILE	340	29.753	63.314	11.271	1.00	89.02	C
ATOM	2443	CG2	ILE	340	32.039	64.436	11.493	1.00	89.02	C
ATOM	2444	CD1	ILE	340	28.554	62.973	10.394	1.00	89.02	C
ATOM	2445	C	ILE	340	31.242	66.683	10.284	1.00	89.02	C
ATOM	2446	O	ILE	340	31.709	67.378	11.184	1.00	89.02	O
ATOM	2447	N	GLY	341	31.681	66.776	9.016	1.00	33.75	N
ATOM	2448	CA	GLY	341	32.754	67.663	8.663	1.00	33.75	C
ATOM	2449	C	GLY	341	32.347	69.089	8.887	1.00	33.75	C
ATOM	2450	O	GLY	341	33.169	69.916	9.268	1.00	33.75	O
ATOM	2451	N	ALA	342	31.084	69.429	8.572	1.00	45.61	N
ATOM	2452	CA	ALA	342	30.555	70.759	8.688	1.00	45.61	C
ATOM	2453	CB	ALA	342	29.155	70.889	8.065	1.00	45.61	C
ATOM	2454	C	ALA	342	30.454	71.163	10.122	1.00	45.61	C
ATOM	2455	O	ALA	342	30.843	72.267	10.496	1.00	45.61	O
ATOM	2456	N	PHE	343	29.930	70.258	10.967	1.00	74.25	N
ATOM	2457	CA	PHE	343	29.753	70.518	12.363	1.00	74.25	C
ATOM	2458	CB	PHE	343	28.783	69.555	13.065	1.00	74.25	C
ATOM	2459	CG	PHE	343	27.436	70.041	12.635	1.00	74.25	C
ATOM	2460	CD1	PHE	343	26.858	69.604	11.465	1.00	74.25	C
ATOM	2461	CD2	PHE	343	26.756	70.965	13.397	1.00	74.25	C
ATOM	2462	CE1	PHE	343	25.624	70.064	11.070	1.00	74.25	C
ATOM	2463	CE2	PHE	343	25.521	71.430	13.009	1.00	74.25	C
ATOM	2464	CZ	PHE	343	24.951	70.978	11.843	1.00	74.25	C
ATOM	2465	C	PHE	343	31.082	70.580	13.031	1.00	74.25	C
ATOM	2466	O	PHE	343	31.228	71.207	14.077	1.00	74.25	O
ATOM	2467	N	SER	344	32.092	69.923	12.437	1.00	46.27	N
ATOM	2468	CA	SER	344	33.401	69.896	13.013	1.00	46.27	C
ATOM	2469	CB	SER	344	34.441	69.210	12.110	1.00	46.27	C
ATOM	2470	OG	SER	344	34.128	67.833	11.964	1.00	46.27	O
ATOM	2471	C	SER	344	33.862	71.302	13.240	1.00	46.27	C
ATOM	2472	O	SER	344	34.673	71.538	14.131	1.00	46.27	O
ATOM	2473	N	VAL	345	33.374	72.277	12.449	1.00	104.98	N
ATOM	2474	CA	VAL	345	33.803	73.637	12.631	1.00	104.98	C
ATOM	2475	CB	VAL	345	33.245	74.583	11.605	1.00	104.98	C
ATOM	2476	CG1	VAL	345	33.784	74.171	10.227	1.00	104.98	C
ATOM	2477	CG2	VAL	345	31.712	74.579	11.690	1.00	104.98	C
ATOM	2478	C	VAL	345	33.388	74.122	13.988	1.00	104.98	C
ATOM	2479	O	VAL	345	34.188	74.716	14.709	1.00	104.98	O
ATOM	2480	N	GLY	346	32.134	73.840	14.389	1.00	38.07	N
ATOM	2481	CA	GLY	346	31.590	74.320	15.628	1.00	38.07	C
ATOM	2482	C	GLY	346	32.390	73.797	16.775	1.00	38.07	C
ATOM	2483	O	GLY	346	32.562	74.497	17.770	1.00	38.07	O
ATOM	2484	N	GLN	347	32.856	72.535	16.700	1.00	151.50	N

ATOM	2485	CA	GLN	347	33.632	72.006	17.786	1.00151.50	C
ATOM	2486	CB	GLN	347	33.818	70.474	17.815	1.00151.50	C
ATOM	2487	CG	GLN	347	34.458	69.826	16.592	1.00151.50	C
ATOM	2488	CD	GLN	347	33.331	69.126	15.851	1.00151.50	C
ATOM	2489	OE1	GLN	347	33.553	68.156	15.129	1.00151.50	O
ATOM	2490	NE2	GLN	347	32.079	69.624	16.042	1.00151.50	N
ATOM	2491	C	GLN	347	34.970	72.690	17.884	1.00151.50	C
ATOM	2492	O	GLN	347	35.561	72.735	18.958	1.00151.50	O
ATOM	2493	N	ALA	348	35.525	73.149	16.748	1.00 74.48	N
ATOM	2494	CA	ALA	348	36.780	73.850	16.636	1.00 74.48	C
ATOM	2495	CB	ALA	348	37.264	73.967	15.180	1.00 74.48	C
ATOM	2496	C	ALA	348	36.731	75.239	17.198	1.00 74.48	C
ATOM	2497	O	ALA	348	37.752	75.736	17.659	1.00 74.48	O
ATOM	2498	N	SER	349	35.573	75.928	17.149	1.00109.97	N
ATOM	2499	CA	SER	349	35.530	77.330	17.484	1.00109.97	C
ATOM	2500	CB	SER	349	34.107	77.930	17.441	1.00109.97	C
ATOM	2501	OG	SER	349	33.252	77.316	18.394	1.00109.97	O
ATOM	2502	C	SER	349	36.160	77.638	18.816	1.00109.97	C
ATOM	2503	O	SER	349	37.111	78.418	18.833	1.00109.97	O
ATOM	2504	N	PRO	350	35.735	77.108	19.933	1.00 77.29	N
ATOM	2505	CA	PRO	350	36.334	77.473	21.190	1.00 77.29	C
ATOM	2506	CD	PRO	350	35.075	75.813	20.007	1.00 77.29	C
ATOM	2507	CB	PRO	350	35.623	76.613	22.231	1.00 77.29	C
ATOM	2508	CG	PRO	350	35.303	75.325	21.449	1.00 77.29	C
ATOM	2509	C	PRO	350	37.815	77.207	21.219	1.00 77.29	C
ATOM	2510	O	PRO	350	38.537	77.958	21.873	1.00 77.29	O
ATOM	2511	N	SER	351	38.286	76.144	20.540	1.00 88.14	N
ATOM	2512	CA	SER	351	39.666	75.741	20.567	1.00 88.14	C
ATOM	2513	CB	SER	351	39.925	74.480	19.728	1.00 88.14	C
ATOM	2514	OG	SER	351	41.308	74.162	19.747	1.00 88.14	O
ATOM	2515	C	SER	351	40.537	76.821	20.011	1.00 88.14	C
ATOM	2516	O	SER	351	41.630	77.046	20.526	1.00 88.14	O
ATOM	2517	N	ILE	352	40.108	77.478	18.915	1.00 82.70	N
ATOM	2518	CA	ILE	352	40.886	78.555	18.366	1.00 82.70	C
ATOM	2519	CB	ILE	352	40.378	79.071	17.049	1.00 82.70	C
ATOM	2520	CG1	ILE	352	40.586	78.032	15.934	1.00 82.70	C
ATOM	2521	CG2	ILE	352	41.086	80.407	16.769	1.00 82.70	C
ATOM	2522	CD1	ILE	352	39.739	76.774	16.087	1.00 82.70	C
ATOM	2523	C	ILE	352	40.871	79.701	19.324	1.00 82.70	C
ATOM	2524	O	ILE	352	41.906	80.304	19.602	1.00 82.70	O
ATOM	2525	N	GLU	353	39.684	80.006	19.879	1.00 45.35	N
ATOM	2526	CA	GLU	353	39.533	81.122	20.764	1.00 45.35	C
ATOM	2527	CB	GLU	353	38.124	81.213	21.373	1.00 45.35	C
ATOM	2528	CG	GLU	353	37.956	82.376	22.354	1.00 45.35	C
ATOM	2529	CD	GLU	353	36.629	82.188	23.077	1.00 45.35	C
ATOM	2530	OE1	GLU	353	35.583	82.081	22.384	1.00 45.35	O
ATOM	2531	OE2	GLU	353	36.648	82.140	24.337	1.00 45.35	O
ATOM	2532	C	GLU	353	40.460	80.908	21.900	1.00 45.35	C
ATOM	2533	O	GLU	353	41.100	81.844	22.371	1.00 45.35	O
ATOM	2534	N	ALA	354	40.552	79.659	22.376	1.00 57.72	N
ATOM	2535	CA	ALA	354	41.426	79.401	23.469	1.00 57.72	C
ATOM	2536	CB	ALA	354	41.418	77.924	23.907	1.00 57.72	C
ATOM	2537	C	ALA	354	42.809	79.737	23.026	1.00 57.72	C
ATOM	2538	O	ALA	354	43.503	80.487	23.698	1.00 57.72	O
ATOM	2539	N	PHE	355	43.230	79.280	21.837	1.00 78.96	N
ATOM	2540	CA	PHE	355	44.591	79.503	21.445	1.00 78.96	C
ATOM	2541	CB	PHE	355	44.956	78.826	20.110	1.00 78.96	C
ATOM	2542	CG	PHE	355	46.420	79.015	19.895	1.00 78.96	C
ATOM	2543	CD1	PHE	355	47.337	78.340	20.671	1.00 78.96	C
ATOM	2544	CD2	PHE	355	46.877	79.849	18.903	1.00 78.96	C
ATOM	2545	CE1	PHE	355	48.688	78.510	20.472	1.00 78.96	C
ATOM	2546	CE2	PHE	355	48.225	80.022	18.698	1.00 78.96	C
ATOM	2547	CZ	PHE	355	49.134	79.355	19.484	1.00 78.96	C
ATOM	2548	C	PHE	355	44.856	80.973	21.354	1.00 78.96	C
ATOM	2549	O	PHE	355	45.898	81.454	21.798	1.00 78.96	O
ATOM	2550	N	ALA	356	43.920	81.725	20.756	1.00 40.71	N
ATOM	2551	CA	ALA	356	44.077	83.143	20.611	1.00 40.71	C
ATOM	2552	CB	ALA	356	42.951	83.780	19.777	1.00 40.71	C
ATOM	2553	C	ALA	356	44.067	83.808	21.949	1.00 40.71	C
ATOM	2554	O	ALA	356	44.854	84.717	22.207	1.00 40.71	O
ATOM	2555	N	ASN	357	43.158	83.377	22.841	1.00123.72	N
ATOM	2556	CA	ASN	357	43.070	83.999	24.123	1.00123.72	C
ATOM	2557	CB	ASN	357	41.819	83.631	24.958	1.00123.72	C
ATOM	2558	CG	ASN	357	41.795	82.169	25.370	1.00123.72	C

ATOM	2559	OD1	ASN	357	42.786	81.623	25.848	1.00123.72	O
ATOM	2560	ND2	ASN	357	40.608	81.523	25.209	1.00123.72	N
ATOM	2561	C	ASN	357	44.327	83.721	24.887	1.00123.72	C
ATOM	2562	O	ASN	357	44.752	84.565	25.673	1.00123.72	O
ATOM	2563	N	ALA	358	44.968	82.539	24.715	1.00 97.53	N
ATOM	2564	CA	ALA	358	46.171	82.417	25.493	1.00 97.53	C
ATOM	2565	CB	ALA	358	47.124	81.250	25.380	1.00 97.53	C
ATOM	2566	C	ALA	358	47.143	83.400	25.011	1.00 97.53	C
ATOM	2567	O	ALA	358	47.932	83.896	25.806	1.00 97.53	O
ATOM	2568	N	ARG	359	47.193	83.628	23.687	1.00134.72	N
ATOM	2569	CA	ARG	359	48.189	84.554	23.251	1.00134.72	C
ATOM	2570	CB	ARG	359	48.284	84.790	21.733	1.00134.72	C
ATOM	2571	CG	ARG	359	48.958	83.665	20.947	1.00134.72	C
ATOM	2572	CD	ARG	359	47.998	82.591	20.452	1.00134.72	C
ATOM	2573	NE	ARG	359	47.803	82.841	18.996	1.00134.72	N
ATOM	2574	CZ	ARG	359	46.950	83.815	18.565	1.00134.72	C
ATOM	2575	NH1	ARG	359	46.277	84.586	19.468	1.00134.72	N
ATOM	2576	NH2	ARG	359	46.783	84.023	17.227	1.00134.72	N
ATOM	2577	C	ARG	359	47.893	85.877	23.874	1.00134.72	C
ATOM	2578	O	ARG	359	48.801	86.582	24.310	1.00134.72	O
ATOM	2579	N	GLY	360	46.603	86.250	23.943	1.00 27.53	N
ATOM	2580	CA	GLY	360	46.268	87.535	24.485	1.00 27.53	C
ATOM	2581	C	GLY	360	46.688	87.612	25.921	1.00 27.53	C
ATOM	2582	O	GLY	360	47.245	88.617	26.359	1.00 27.53	O
ATOM	2583	N	ALA	361	46.413	86.552	26.699	1.00 47.72	N
ATOM	2584	CA	ALA	361	46.742	86.526	28.096	1.00 47.72	C
ATOM	2585	CB	ALA	361	46.227	85.263	28.805	1.00 47.72	C
ATOM	2586	C	ALA	361	48.227	86.555	28.277	1.00 47.72	C
ATOM	2587	O	ALA	361	48.741	87.180	29.204	1.00 47.72	O
ATOM	2588	N	ALA	362	48.950	85.847	27.393	1.00 63.03	N
ATOM	2589	CA	ALA	362	50.379	85.718	27.457	1.00 63.03	C
ATOM	2590	CB	ALA	362	50.939	84.774	26.385	1.00 63.03	C
ATOM	2591	C	ALA	362	51.049	87.049	27.279	1.00 63.03	C
ATOM	2592	O	ALA	362	52.141	87.275	27.798	1.00 63.03	O
ATOM	2593	N	TYR	363	50.449	87.953	26.488	1.00 56.09	N
ATOM	2594	CA	TYR	363	51.087	89.210	26.218	1.00 56.09	C
ATOM	2595	CB	TYR	363	50.255	90.070	25.248	1.00 56.09	C
ATOM	2596	CG	TYR	363	50.961	91.359	25.002	1.00 56.09	C
ATOM	2597	CD1	TYR	363	52.060	91.409	24.180	1.00 56.09	C
ATOM	2598	CD2	TYR	363	50.505	92.525	25.578	1.00 56.09	C
ATOM	2599	CE1	TYR	363	52.709	92.598	23.946	1.00 56.09	C
ATOM	2600	CE2	TYR	363	51.149	93.716	25.347	1.00 56.09	C
ATOM	2601	CZ	TYR	363	52.254	93.754	24.531	1.00 56.09	C
ATOM	2602	OH	TYR	363	52.916	94.977	24.293	1.00 56.09	O
ATOM	2603	C	TYR	363	51.267	89.973	27.492	1.00 56.09	C
ATOM	2604	O	TYR	363	52.353	90.478	27.778	1.00 56.09	O
ATOM	2605	N	GLU	364	50.206	90.051	28.313	1.00 95.84	N
ATOM	2606	CA	GLU	364	50.269	90.803	29.528	1.00 95.84	C
ATOM	2607	CB	GLU	364	48.914	90.915	30.245	1.00 95.84	C
ATOM	2608	CG	GLU	364	47.946	91.851	29.520	1.00 95.84	C
ATOM	2609	CD	GLU	364	48.524	93.259	29.602	1.00 95.84	C
ATOM	2610	OE1	GLU	364	49.341	93.510	30.529	1.00 95.84	O
ATOM	2611	OE2	GLU	364	48.158	94.102	28.740	1.00 95.84	O
ATOM	2612	C	GLU	364	51.251	90.179	30.470	1.00 95.84	C
ATOM	2613	O	GLU	364	51.864	90.880	31.272	1.00 95.84	O
ATOM	2614	N	ILE	365	51.372	88.838	30.460	1.00154.15	N
ATOM	2615	CA	ILE	365	52.276	88.180	31.364	1.00154.15	C
ATOM	2616	CB	ILE	365	51.994	86.693	31.461	1.00154.15	C
ATOM	2617	CG1	ILE	365	52.575	86.103	32.751	1.00154.15	C
ATOM	2618	CG2	ILE	365	52.453	85.971	30.186	1.00154.15	C
ATOM	2619	CD1	ILE	365	51.711	86.424	33.969	1.00154.15	C
ATOM	2620	C	ILE	365	53.725	88.423	30.990	1.00154.15	C
ATOM	2621	O	ILE	365	54.513	88.893	31.810	1.00154.15	O
ATOM	2622	N	PHE	366	54.098	88.201	29.711	1.00177.68	N
ATOM	2623	CA	PHE	366	55.456	88.287	29.245	1.00177.68	C
ATOM	2624	CB	PHE	366	55.622	87.819	27.784	1.00177.68	C
ATOM	2625	CG	PHE	366	55.642	86.322	27.796	1.00177.68	C
ATOM	2626	CD1	PHE	366	54.515	85.597	28.110	1.00177.68	C
ATOM	2627	CD2	PHE	366	56.804	85.632	27.536	1.00177.68	C
ATOM	2628	CE1	PHE	366	54.534	84.221	28.134	1.00177.68	C
ATOM	2629	CE2	PHE	366	56.829	84.255	27.555	1.00177.68	C
ATOM	2630	CZ	PHE	366	55.693	83.542	27.853	1.00177.68	C
ATOM	2631	C	PHE	366	55.966	89.685	29.403	1.00177.68	C
ATOM	2632	O	PHE	366	57.163	89.900	29.583	1.00177.68	O

ATOM	2633	N	LYS	367	55.076	90.684	29.304	1.00133.51	N
ATOM	2634	CA	LYS	367	55.501	92.046	29.434	1.00133.51	C
ATOM	2635	CB	LYS	367	54.336	93.041	29.349	1.00133.51	C
ATOM	2636	CG	LYS	367	53.621	93.063	28.002	1.00133.51	C
ATOM	2637	CD	LYS	367	52.293	93.816	28.060	1.00133.51	C
ATOM	2638	CE	LYS	367	52.443	95.273	28.497	1.00133.51	C
ATOM	2639	NZ	LYS	367	53.239	96.019	27.498	1.00133.51	N
ATOM	2640	C	LYS	367	56.106	92.262	30.793	1.00133.51	C
ATOM	2641	O	LYS	367	57.129	92.934	30.925	1.00133.51	O
ATOM	2642	N	ILE	368	55.482	91.689	31.840	1.00105.36	N
ATOM	2643	CA	ILE	368	55.884	91.907	33.202	1.00105.36	C
ATOM	2644	CB	ILE	368	54.962	91.243	34.180	1.00105.36	C
ATOM	2645	CG1	ILE	368	53.521	91.718	33.935	1.00105.36	C
ATOM	2646	CG2	ILE	368	55.472	91.549	35.598	1.00105.36	C
ATOM	2647	CD1	ILE	368	53.364	93.235	34.010	1.00105.36	C
ATOM	2648	C	ILE	368	57.260	91.366	33.437	1.00105.36	C
ATOM	2649	O	ILE	368	58.077	91.994	34.112	1.00105.36	O
ATOM	2650	N	ILE	369	57.548	90.173	32.887	1.00 66.88	N
ATOM	2651	CA	ILE	369	58.810	89.528	33.104	1.00 66.88	C
ATOM	2652	CB	ILE	369	58.873	88.182	32.435	1.00 66.88	C
ATOM	2653	CG1	ILE	369	57.783	87.263	33.016	1.00 66.88	C
ATOM	2654	CG2	ILE	369	60.297	87.619	32.588	1.00 66.88	C
ATOM	2655	CD1	ILE	369	57.548	85.991	32.202	1.00 66.88	C
ATOM	2656	C	ILE	369	59.897	90.394	32.538	1.00 66.88	C
ATOM	2657	O	ILE	369	60.930	90.621	33.166	1.00 66.88	O
ATOM	2658	N	ASP	370	59.672	90.924	31.327	1.00 88.18	N
ATOM	2659	CA	ASP	370	60.650	91.687	30.609	1.00 88.18	C
ATOM	2660	CB	ASP	370	60.218	91.913	29.149	1.00 88.18	C
ATOM	2661	CG	ASP	370	60.156	90.540	28.475	1.00 88.18	C
ATOM	2662	OD1	ASP	370	61.185	89.812	28.491	1.00 88.18	O
ATOM	2663	OD2	ASP	370	59.071	90.202	27.933	1.00 88.18	O
ATOM	2664	C	ASP	370	60.940	93.026	31.263	1.00 88.18	C
ATOM	2665	O	ASP	370	62.059	93.527	31.165	1.00 88.18	O
ATOM	2666	N	ASN	371	59.949	93.650	31.942	1.00 70.38	N
ATOM	2667	CA	ASN	371	60.071	94.996	32.471	1.00 70.38	C
ATOM	2668	CB	ASN	371	58.708	95.551	32.934	1.00 70.38	C
ATOM	2669	CG	ASN	371	58.777	97.064	33.104	1.00 70.38	C
ATOM	2670	OD1	ASN	371	59.832	97.679	32.960	1.00 70.38	O
ATOM	2671	ND2	ASN	371	57.610	97.686	33.422	1.00 70.38	N
ATOM	2672	C	ASN	371	61.030	95.100	33.641	1.00 70.38	C
ATOM	2673	O	ASN	371	61.037	94.260	34.540	1.00 70.38	O
ATOM	2674	N	LYS	372	61.859	96.179	33.664	1.00136.45	N
ATOM	2675	CA	LYS	372	62.814	96.432	34.726	1.00136.45	C
ATOM	2676	CB	LYS	372	64.273	96.435	34.238	1.00136.45	C
ATOM	2677	CG	LYS	372	64.770	95.068	33.760	1.00136.45	C
ATOM	2678	CD	LYS	372	64.771	93.999	34.855	1.00136.45	C
ATOM	2679	CE	LYS	372	65.357	92.658	34.406	1.00136.45	C
ATOM	2680	NZ	LYS	372	64.475	92.023	33.404	1.00136.45	N
ATOM	2681	C	LYS	372	62.548	97.800	35.339	1.00136.45	C
ATOM	2682	O	LYS	372	62.292	98.764	34.619	1.00136.45	O
ATOM	2683	N	PRO	373	62.579	97.900	36.661	1.00194.03	N
ATOM	2684	CA	PRO	373	62.289	99.155	37.356	1.00194.03	C
ATOM	2685	CD	PRO	373	62.125	96.759	37.442	1.00194.03	C
ATOM	2686	CB	PRO	373	61.704	98.773	38.714	1.00194.03	C
ATOM	2687	CG	PRO	373	61.213	97.335	38.535	1.00194.03	C
ATOM	2688	C	PRO	373	63.419	100.129	37.592	1.00194.03	C
ATOM	2689	O	PRO	373	64.579	99.721	37.582	1.00194.03	O
ATOM	2690	N	SER	374	63.076	101.427	37.808	1.00 70.66	N
ATOM	2691	CA	SER	374	63.979	102.493	38.189	1.00 70.66	C
ATOM	2692	CB	SER	374	63.369	103.887	37.962	1.00 70.66	C
ATOM	2693	OG	SER	374	62.199	104.045	38.750	1.00 70.66	O
ATOM	2694	C	SER	374	64.331	102.378	39.649	1.00 70.66	C
ATOM	2695	O	SER	374	65.495	102.501	40.034	1.00 70.66	O
ATOM	2696	N	ILE	375	63.317	102.155	40.513	1.00139.04	N
ATOM	2697	CA	ILE	375	63.585	101.984	41.915	1.00139.04	C
ATOM	2698	CB	ILE	375	62.524	102.547	42.827	1.00139.04	C
ATOM	2699	CG1	ILE	375	62.474	104.084	42.757	1.00139.04	C
ATOM	2700	CG2	ILE	375	62.804	102.028	44.248	1.00139.04	C
ATOM	2701	CD1	ILE	375	61.926	104.653	41.454	1.00139.04	C
ATOM	2702	C	ILE	375	63.608	100.503	42.109	1.00139.04	C
ATOM	2703	O	ILE	375	62.571	99.855	42.242	1.00139.04	O
ATOM	2704	N	ASP	376	64.823	99.926	42.128	1.00 79.50	N
ATOM	2705	CA	ASP	376	64.954	98.504	42.231	1.00 79.50	C
ATOM	2706	CB	ASP	376	66.178	97.968	41.466	1.00 79.50	C

ATOM	2707	CG	ASP	376	66.030	96.465	41.284	1.00	79.50	C
ATOM	2708	OD1	ASP	376	65.234	95.849	42.042	1.00	79.50	O
ATOM	2709	OD2	ASP	376	66.710	95.913	40.379	1.00	79.50	O
ATOM	2710	C	ASP	376	65.097	98.165	43.681	1.00	79.50	C
ATOM	2711	O	ASP	376	66.034	98.596	44.357	1.00	79.50	O
ATOM	2712	N	SER	377	64.118	97.404	44.202	1.00	124.11	N
ATOM	2713	CA	SER	377	64.132	97.011	45.579	1.00	124.11	C
ATOM	2714	CB	SER	377	62.795	96.416	46.039	1.00	124.11	C
ATOM	2715	OG	SER	377	62.884	96.058	47.408	1.00	124.11	O
ATOM	2716	C	SER	377	65.187	95.973	45.797	1.00	124.11	C
ATOM	2717	O	SER	377	65.562	95.698	46.936	1.00	124.11	O
ATOM	2718	N	TYR	378	65.596	95.283	44.714	1.00	204.00	N
ATOM	2719	CA	TYR	378	66.638	94.289	44.732	1.00	204.00	C
ATOM	2720	CB	TYR	378	66.539	93.275	43.576	1.00	204.00	C
ATOM	2721	CG	TYR	378	65.398	92.368	43.910	1.00	204.00	C
ATOM	2722	CD1	TYR	378	64.118	92.674	43.512	1.00	204.00	C
ATOM	2723	CD2	TYR	378	65.608	91.216	44.638	1.00	204.00	C
ATOM	2724	CE1	TYR	378	63.070	91.841	43.828	1.00	204.00	C
ATOM	2725	CE2	TYR	378	64.564	90.377	44.957	1.00	204.00	C
ATOM	2726	CZ	TYR	378	63.291	90.692	44.548	1.00	204.00	C
ATOM	2727	OH	TYR	378	62.210	89.844	44.867	1.00	204.00	O
ATOM	2728	C	TYR	378	68.040	94.877	44.774	1.00	204.00	C
ATOM	2729	O	TYR	378	68.933	94.288	45.383	1.00	204.00	O
ATOM	2730	N	SER	379	68.275	96.039	44.114	1.00	83.24	N
ATOM	2731	CA	SER	379	69.591	96.615	43.887	1.00	83.24	C
ATOM	2732	CB	SER	379	69.559	97.847	42.964	1.00	83.24	C
ATOM	2733	OG	SER	379	70.872	98.359	42.787	1.00	83.24	O
ATOM	2734	C	SER	379	70.348	97.026	45.139	1.00	83.24	C
ATOM	2735	O	SER	379	69.772	97.376	46.164	1.00	83.24	O
ATOM	2736	N	LYS	380	71.694	96.865	45.061	1.00	194.60	N
ATOM	2737	CA	LYS	380	72.800	97.123	45.968	1.00	194.60	C
ATOM	2738	CB	LYS	380	73.906	96.070	45.822	1.00	194.60	C
ATOM	2739	CG	LYS	380	73.461	94.695	46.325	1.00	194.60	C
ATOM	2740	CD	LYS	380	73.130	94.679	47.820	1.00	194.60	C
ATOM	2741	CE	LYS	380	72.677	93.315	48.348	1.00	194.60	C
ATOM	2742	NZ	LYS	380	71.268	93.061	47.971	1.00	194.60	N
ATOM	2743	C	LYS	380	73.457	98.495	45.946	1.00	194.60	C
ATOM	2744	O	LYS	380	74.416	98.703	46.690	1.00	194.60	O
ATOM	2745	N	SER	381	73.072	99.405	45.029	1.00	115.22	N
ATOM	2746	CA	SER	381	73.780	100.629	44.704	1.00	115.22	C
ATOM	2747	CB	SER	381	73.068	101.388	43.575	1.00	115.22	C
ATOM	2748	OG	SER	381	73.776	102.579	43.274	1.00	115.22	O
ATOM	2749	C	SER	381	74.079	101.655	45.785	1.00	115.22	C
ATOM	2750	O	SER	381	75.248	101.957	46.024	1.00	115.22	O
ATOM	2751	N	GLY	382	73.070	102.215	46.484	1.00	50.21	N
ATOM	2752	CA	GLY	382	73.274	103.398	47.302	1.00	50.21	C
ATOM	2753	C	GLY	382	74.017	103.157	48.588	1.00	50.21	C
ATOM	2754	O	GLY	382	74.426	102.043	48.910	1.00	50.21	O
ATOM	2755	N	HIS	383	74.209	104.266	49.345	1.00	65.68	N
ATOM	2756	CA	HIS	383	74.910	104.335	50.601	1.00	65.68	C
ATOM	2757	ND1	HIS	383	75.683	107.145	48.969	1.00	65.68	N
ATOM	2758	CG	HIS	383	76.114	106.536	50.126	1.00	65.68	C
ATOM	2759	CB	HIS	383	75.217	105.774	51.054	1.00	65.68	C
ATOM	2760	NE2	HIS	383	77.862	107.557	49.131	1.00	65.68	N
ATOM	2761	CD2	HIS	383	77.447	106.797	50.210	1.00	65.68	C
ATOM	2762	CE1	HIS	383	76.768	107.741	48.414	1.00	65.68	C
ATOM	2763	C	HIS	383	74.049	103.762	51.682	1.00	65.68	C
ATOM	2764	O	HIS	383	72.847	103.581	51.503	1.00	65.68	O
ATOM	2765	N	LYS	384	74.680	103.410	52.826	1.00	130.80	N
ATOM	2766	CA	LYS	384	73.953	102.939	53.972	1.00	130.80	C
ATOM	2767	CB	LYS	384	74.117	101.427	54.194	1.00	130.80	C
ATOM	2768	CG	LYS	384	73.533	100.585	53.057	1.00	130.80	C
ATOM	2769	CD	LYS	384	73.991	99.126	53.078	1.00	130.80	C
ATOM	2770	CE	LYS	384	73.630	98.388	54.369	1.00	130.80	C
ATOM	2771	NZ	LYS	384	74.504	98.842	55.474	1.00	130.80	N
ATOM	2772	C	LYS	384	74.541	103.631	55.172	1.00	130.80	C
ATOM	2773	O	LYS	384	75.408	103.083	55.853	1.00	130.80	O
ATOM	2774	N	PRO	385	74.087	104.818	55.468	1.00	176.76	N
ATOM	2775	CA	PRO	385	74.678	105.529	56.575	1.00	176.76	C
ATOM	2776	CD	PRO	385	73.678	105.723	54.405	1.00	176.76	C
ATOM	2777	CB	PRO	385	74.346	107.003	56.359	1.00	176.76	C
ATOM	2778	CG	PRO	385	74.171	107.114	54.836	1.00	176.76	C
ATOM	2779	C	PRO	385	74.259	105.025	57.919	1.00	176.76	C
ATOM	2780	O	PRO	385	73.082	104.734	58.118	1.00	176.76	O

ATOM	2781	N	ASP	386	75.209	104.930	58.865	1.00116.96	N
ATOM	2782	CA	ASP	386	74.897	104.507	60.198	1.00116.96	C
ATOM	2783	CB	ASP	386	75.969	103.579	60.781	1.00116.96	C
ATOM	2784	CG	ASP	386	77.293	104.306	60.652	1.00116.96	C
ATOM	2785	OD1	ASP	386	77.727	104.562	59.498	1.00116.96	O
ATOM	2786	OD2	ASP	386	77.894	104.608	61.713	1.00116.96	O
ATOM	2787	C	ASP	386	74.727	105.714	61.075	1.00116.96	C
ATOM	2788	O	ASP	386	74.987	106.840	60.654	1.00116.96	O
ATOM	2789	N	ASN	387	74.300	105.489	62.338	1.00 60.30	N
ATOM	2790	CA	ASN	387	74.104	106.534	63.312	1.00 60.30	C
ATOM	2791	CB	ASN	387	75.418	107.152	63.823	1.00 60.30	C
ATOM	2792	CG	ASN	387	76.152	106.102	64.644	1.00 60.30	C
ATOM	2793	OD1	ASN	387	75.615	105.033	64.929	1.00 60.30	O
ATOM	2794	ND2	ASN	387	77.412	106.418	65.047	1.00 60.30	N
ATOM	2795	C	ASN	387	73.273	107.638	62.737	1.00 60.30	C
ATOM	2796	O	ASN	387	73.756	108.755	62.558	1.00 60.30	O
ATOM	2797	N	ILE	388	71.988	107.357	62.439	1.00 77.15	N
ATOM	2798	CA	ILE	388	71.161	108.372	61.849	1.00 77.15	C
ATOM	2799	CB	ILE	388	70.281	107.819	60.771	1.00 77.15	C
ATOM	2800	CG1	ILE	388	71.178	107.213	59.677	1.00 77.15	C
ATOM	2801	CG2	ILE	388	69.360	108.938	60.257	1.00 77.15	C
ATOM	2802	CD1	ILE	388	70.445	106.294	58.707	1.00 77.15	C
ATOM	2803	C	ILE	388	70.317	109.045	62.903	1.00 77.15	C
ATOM	2804	O	ILE	388	69.622	108.400	63.688	1.00 77.15	O
ATOM	2805	N	LYS	389	70.419	110.393	62.962	1.00120.39	N
ATOM	2806	CA	LYS	389	69.700	111.262	63.866	1.00120.39	C
ATOM	2807	CB	LYS	389	70.243	112.702	63.886	1.00120.39	C
ATOM	2808	CG	LYS	389	71.540	112.863	64.682	1.00120.39	C
ATOM	2809	CD	LYS	389	72.743	112.141	64.076	1.00120.39	C
ATOM	2810	CE	LYS	389	74.026	112.319	64.892	1.00120.39	C
ATOM	2811	NZ	LYS	389	73.876	111.673	66.215	1.00120.39	N
ATOM	2812	C	LYS	389	68.240	111.344	63.518	1.00120.39	C
ATOM	2813	O	LYS	389	67.394	111.434	64.411	1.00120.39	O
ATOM	2814	N	GLY	390	67.893	111.316	62.212	1.00 60.66	N
ATOM	2815	CA	GLY	390	66.500	111.413	61.863	1.00 60.66	C
ATOM	2816	C	GLY	390	66.099	112.817	61.515	1.00 60.66	C
ATOM	2817	O	GLY	390	64.946	113.202	61.713	1.00 60.66	O
ATOM	2818	N	ASN	391	67.025	113.632	60.979	1.00110.31	N
ATOM	2819	CA	ASN	391	66.610	114.959	60.632	1.00110.31	C
ATOM	2820	CB	ASN	391	67.773	115.961	60.629	1.00110.31	C
ATOM	2821	CG	ASN	391	67.182	117.297	61.027	1.00110.31	C
ATOM	2822	OD1	ASN	391	66.651	117.427	62.129	1.00110.31	O
ATOM	2823	ND2	ASN	391	67.273	118.312	60.126	1.00110.31	N
ATOM	2824	C	ASN	391	66.059	114.853	59.241	1.00110.31	C
ATOM	2825	O	ASN	391	66.784	114.525	58.304	1.00110.31	O
ATOM	2826	N	LEU	392	64.745	115.115	59.068	1.00127.67	N
ATOM	2827	CA	LEU	392	64.146	114.938	57.781	1.00127.67	C
ATOM	2828	CB	LEU	392	62.846	114.111	57.771	1.00127.67	C
ATOM	2829	CG	LEU	392	62.994	112.708	58.387	1.00127.67	C
ATOM	2830	CD1	LEU	392	62.918	112.758	59.916	1.00127.67	C
ATOM	2831	CD2	LEU	392	62.019	111.702	57.773	1.00127.67	C
ATOM	2832	C	LEU	392	63.813	116.271	57.211	1.00127.67	C
ATOM	2833	O	LEU	392	63.516	117.214	57.942	1.00127.67	O
ATOM	2834	N	GLU	393	63.895	116.394	55.870	1.00 76.65	N
ATOM	2835	CA	GLU	393	63.532	117.644	55.279	1.00 76.65	C
ATOM	2836	CB	GLU	393	64.705	118.627	55.124	1.00 76.65	C
ATOM	2837	CG	GLU	393	64.249	120.055	54.810	1.00 76.65	C
ATOM	2838	CD	GLU	393	65.438	120.985	54.999	1.00 76.65	C
ATOM	2839	OE1	GLU	393	66.593	120.510	54.830	1.00 76.65	O
ATOM	2840	OE2	GLU	393	65.205	122.182	55.319	1.00 76.65	O
ATOM	2841	C	GLU	393	62.939	117.399	53.931	1.00 76.65	C
ATOM	2842	O	GLU	393	63.365	116.511	53.192	1.00 76.65	O
ATOM	2843	N	PHE	394	61.895	118.188	53.609	1.00 80.42	N
ATOM	2844	CA	PHE	394	61.261	118.166	52.323	1.00 80.42	C
ATOM	2845	CB	PHE	394	59.730	117.999	52.389	1.00 80.42	C
ATOM	2846	CG	PHE	394	59.424	116.567	52.676	1.00 80.42	C
ATOM	2847	CD1	PHE	394	59.679	116.011	53.909	1.00 80.42	C
ATOM	2848	CD2	PHE	394	58.853	115.780	51.701	1.00 80.42	C
ATOM	2849	CE1	PHE	394	59.387	114.690	54.160	1.00 80.42	C
ATOM	2850	CE2	PHE	394	58.558	114.459	51.946	1.00 80.42	C
ATOM	2851	CZ	PHE	394	58.826	113.910	53.177	1.00 80.42	C
ATOM	2852	C	PHE	394	61.556	119.499	51.717	1.00 80.42	C
ATOM	2853	O	PHE	394	61.375	120.529	52.365	1.00 80.42	O
ATOM	2854	N	ARG	395	62.048	119.515	50.460	1.00 86.00	N

ATOM	2855	CA	ARG	395	62.385	120.778	49.872	1.00	86.00	C
ATOM	2856	CB	ARG	395	63.899	120.980	49.667	1.00	86.00	C
ATOM	2857	CG	ARG	395	64.694	121.026	50.975	1.00	86.00	C
ATOM	2858	CD	ARG	395	66.200	121.227	50.784	1.00	86.00	C
ATOM	2859	NE	ARG	395	66.477	122.689	50.877	1.00	86.00	N
ATOM	2860	CZ	ARG	395	66.464	123.468	49.756	1.00	86.00	C
ATOM	2861	NH1	ARG	395	66.195	122.911	48.540	1.00	86.00	N
ATOM	2862	NH2	ARG	395	66.724	124.804	49.853	1.00	86.00	N
ATOM	2863	C	ARG	395	61.741	120.901	48.525	1.00	86.00	C
ATOM	2864	O	ARG	395	62.053	120.150	47.602	1.00	86.00	O
ATOM	2865	N	ASN	396	60.822	121.881	48.398	1.00	62.73	N
ATOM	2866	CA	ASN	396	60.174	122.233	47.164	1.00	62.73	C
ATOM	2867	CB	ASN	396	61.105	123.005	46.212	1.00	62.73	C
ATOM	2868	CG	ASN	396	60.259	123.681	45.143	1.00	62.73	C
ATOM	2869	OD1	ASN	396	59.031	123.619	45.170	1.00	62.73	O
ATOM	2870	ND2	ASN	396	60.936	124.349	44.171	1.00	62.73	N
ATOM	2871	C	ASN	396	59.685	121.006	46.462	1.00	62.73	C
ATOM	2872	O	ASN	396	59.977	120.802	45.284	1.00	62.73	O
ATOM	2873	N	VAL	397	58.905	120.158	47.158	1.00	104.73	N
ATOM	2874	CA	VAL	397	58.459	118.945	46.541	1.00	104.73	C
ATOM	2875	CB	VAL	397	58.068	117.888	47.532	1.00	104.73	C
ATOM	2876	CG1	VAL	397	56.884	118.408	48.364	1.00	104.73	C
ATOM	2877	CG2	VAL	397	57.766	116.588	46.767	1.00	104.73	C
ATOM	2878	C	VAL	397	57.276	119.216	45.674	1.00	104.73	C
ATOM	2879	O	VAL	397	56.323	119.885	46.068	1.00	104.73	O
ATOM	2880	N	HIS	398	57.340	118.699	44.435	1.00	59.06	N
ATOM	2881	CA	HIS	398	56.248	118.746	43.513	1.00	59.06	C
ATOM	2882	ND1	HIS	398	55.667	121.929	42.415	1.00	59.06	N
ATOM	2883	CG	HIS	398	56.699	121.021	42.500	1.00	59.06	C
ATOM	2884	CB	HIS	398	56.549	119.552	42.238	1.00	59.06	C
ATOM	2885	NE2	HIS	398	57.477	123.078	43.003	1.00	59.06	N
ATOM	2886	CD2	HIS	398	57.797	121.740	42.861	1.00	59.06	C
ATOM	2887	CE1	HIS	398	56.187	123.143	42.725	1.00	59.06	C
ATOM	2888	C	HIS	398	56.074	117.320	43.115	1.00	59.06	C
ATOM	2889	O	HIS	398	57.023	116.683	42.660	1.00	59.06	O
ATOM	2890	N	PHE	399	54.860	116.769	43.300	1.00	78.88	N
ATOM	2891	CA	PHE	399	54.678	115.379	43.024	1.00	78.88	C
ATOM	2892	CB	PHE	399	54.719	114.545	44.319	1.00	78.88	C
ATOM	2893	CG	PHE	399	54.479	113.110	44.006	1.00	78.88	C
ATOM	2894	CD1	PHE	399	55.481	112.318	43.495	1.00	78.88	C
ATOM	2895	CD2	PHE	399	53.245	112.555	44.246	1.00	78.88	C
ATOM	2896	CE1	PHE	399	55.248	110.992	43.215	1.00	78.88	C
ATOM	2897	CE2	PHE	399	53.007	111.230	43.970	1.00	78.88	C
ATOM	2898	CZ	PHE	399	54.009	110.446	43.452	1.00	78.88	C
ATOM	2899	C	PHE	399	53.348	115.183	42.390	1.00	78.88	C
ATOM	2900	O	PHE	399	52.363	115.833	42.744	1.00	78.88	O
ATOM	2901	N	SER	400	53.309	114.268	41.409	1.00	100.89	N
ATOM	2902	CA	SER	400	52.086	113.938	40.760	1.00	100.89	C
ATOM	2903	CB	SER	400	51.969	114.582	39.370	1.00	100.89	C
ATOM	2904	OG	SER	400	50.735	114.227	38.770	1.00	100.89	O
ATOM	2905	C	SER	400	52.131	112.456	40.588	1.00	100.89	C
ATOM	2906	O	SER	400	53.148	111.894	40.183	1.00	100.89	O
ATOM	2907	N	TYR	401	51.020	111.778	40.911	1.00	102.83	N
ATOM	2908	CA	TYR	401	50.947	110.360	40.764	1.00	102.83	C
ATOM	2909	CB	TYR	401	49.633	109.755	41.282	1.00	102.83	C
ATOM	2910	CG	TYR	401	49.678	109.884	42.763	1.00	102.83	C
ATOM	2911	CD1	TYR	401	50.380	108.962	43.499	1.00	102.83	C
ATOM	2912	CD2	TYR	401	49.033	110.913	43.412	1.00	102.83	C
ATOM	2913	CE1	TYR	401	50.436	109.065	44.865	1.00	102.83	C
ATOM	2914	CE2	TYR	401	49.088	111.019	44.782	1.00	102.83	C
ATOM	2915	CZ	TYR	401	49.792	110.093	45.511	1.00	102.83	C
ATOM	2916	OH	TYR	401	49.854	110.195	46.918	1.00	102.83	O
ATOM	2917	C	TYR	401	51.086	110.033	39.306	1.00	102.83	C
ATOM	2918	O	TYR	401	50.762	110.831	38.427	1.00	102.83	O
ATOM	2919	N	PRO	402	51.604	108.866	39.040	1.00	113.23	N
ATOM	2920	CA	PRO	402	51.851	108.424	37.694	1.00	113.23	C
ATOM	2921	CD	PRO	402	52.421	108.157	40.012	1.00	113.23	C
ATOM	2922	CB	PRO	402	52.608	107.104	37.828	1.00	113.23	C
ATOM	2923	CG	PRO	402	53.324	107.228	39.185	1.00	113.23	C
ATOM	2924	C	PRO	402	50.604	108.311	36.881	1.00	113.23	C
ATOM	2925	O	PRO	402	50.712	108.216	35.659	1.00	113.23	O
ATOM	2926	N	SER	403	49.420	108.267	37.514	1.00	46.61	N
ATOM	2927	CA	SER	403	48.226	108.150	36.730	1.00	46.61	C
ATOM	2928	CB	SER	403	46.949	108.105	37.586	1.00	46.61	C

ATOM	2929	OG	SER	403	45.806	107.992	36.750	1.00	46.61	O
ATOM	2930	C	SER	403	48.133	109.348	35.840	1.00	46.61	C
ATOM	2931	O	SER	403	48.139	109.221	34.616	1.00	46.61	O
ATOM	2932	N	ARG	404	48.055	110.556	36.438	1.00	110.68	N
ATOM	2933	CA	ARG	404	47.983	111.737	35.628	1.00	110.68	C
ATOM	2934	CB	ARG	404	46.599	112.404	35.583	1.00	110.68	C
ATOM	2935	CG	ARG	404	45.744	111.872	34.434	1.00	110.68	C
ATOM	2936	CD	ARG	404	46.184	112.476	33.097	1.00	110.68	C
ATOM	2937	NE	ARG	404	45.411	111.830	32.000	1.00	110.68	N
ATOM	2938	CZ	ARG	404	45.919	111.842	30.733	1.00	110.68	C
ATOM	2939	NH1	ARG	404	47.135	112.416	30.493	1.00	110.68	N
ATOM	2940	NH2	ARG	404	45.218	111.278	29.707	1.00	110.68	N
ATOM	2941	C	ARG	404	48.967	112.745	36.102	1.00	110.68	C
ATOM	2942	O	ARG	404	48.918	113.216	37.238	1.00	110.68	O
ATOM	2943	N	LYS	405	49.904	113.084	35.203	1.00	131.27	N
ATOM	2944	CA	LYS	405	50.902	114.072	35.450	1.00	131.27	C
ATOM	2945	CB	LYS	405	52.007	114.102	34.378	1.00	131.27	C
ATOM	2946	CG	LYS	405	51.502	114.382	32.962	1.00	131.27	C
ATOM	2947	CD	LYS	405	52.622	114.734	31.980	1.00	131.27	C
ATOM	2948	CE	LYS	405	53.800	113.758	32.020	1.00	131.27	C
ATOM	2949	NZ	LYS	405	53.389	112.439	31.490	1.00	131.27	N
ATOM	2950	C	LYS	405	50.249	115.420	35.488	1.00	131.27	C
ATOM	2951	O	LYS	405	50.684	116.312	36.213	1.00	131.27	O
ATOM	2952	N	GLU	406	49.167	115.595	34.706	1.00	38.62	N
ATOM	2953	CA	GLU	406	48.539	116.878	34.553	1.00	38.62	C
ATOM	2954	CB	GLU	406	47.314	116.811	33.627	1.00	38.62	C
ATOM	2955	CG	GLU	406	46.702	118.173	33.303	1.00	38.62	C
ATOM	2956	CD	GLU	406	45.513	117.926	32.387	1.00	38.62	C
ATOM	2957	OE1	GLU	406	45.234	116.732	32.097	1.00	38.62	O
ATOM	2958	OE2	GLU	406	44.871	118.924	31.964	1.00	38.62	O
ATOM	2959	C	GLU	406	48.087	117.412	35.878	1.00	38.62	C
ATOM	2960	O	GLU	406	48.340	118.576	36.189	1.00	38.62	O
ATOM	2961	N	VAL	407	47.407	116.590	36.704	1.00	97.70	N
ATOM	2962	CA	VAL	407	46.957	117.069	37.984	1.00	97.70	C
ATOM	2963	CB	VAL	407	45.798	116.292	38.537	1.00	97.70	C
ATOM	2964	CG1	VAL	407	46.243	114.833	38.744	1.00	97.70	C
ATOM	2965	CG2	VAL	407	45.316	116.980	39.826	1.00	97.70	C
ATOM	2966	C	VAL	407	48.091	116.930	38.950	1.00	97.70	C
ATOM	2967	O	VAL	407	48.804	115.929	38.931	1.00	97.70	O
ATOM	2968	N	LYS	408	48.295	117.939	39.821	1.00	117.46	N
ATOM	2969	CA	LYS	408	49.380	117.853	40.759	1.00	117.46	C
ATOM	2970	CB	LYS	408	50.328	119.066	40.743	1.00	117.46	C
ATOM	2971	CG	LYS	408	51.227	119.133	39.506	1.00	117.46	C
ATOM	2972	CD	LYS	408	50.486	119.463	38.210	1.00	117.46	C
ATOM	2973	CE	LYS	408	50.336	120.965	37.959	1.00	117.46	C
ATOM	2974	NZ	LYS	408	49.670	121.198	36.659	1.00	117.46	N
ATOM	2975	C	LYS	408	48.819	117.752	42.140	1.00	117.46	C
ATOM	2976	O	LYS	408	47.936	118.518	42.524	1.00	117.46	O
ATOM	2977	N	ILE	409	49.260	116.715	42.879	1.00	174.47	N
ATOM	2978	CA	ILE	409	48.857	116.515	44.237	1.00	174.47	C
ATOM	2979	CB	ILE	409	48.987	115.075	44.645	1.00	174.47	C
ATOM	2980	CG1	ILE	409	47.976	114.802	45.755	1.00	174.47	C
ATOM	2981	CG2	ILE	409	50.445	114.739	45.001	1.00	174.47	C
ATOM	2982	CD1	ILE	409	46.543	114.927	45.237	1.00	174.47	C
ATOM	2983	C	ILE	409	49.622	117.416	45.166	1.00	174.47	C
ATOM	2984	O	ILE	409	49.057	118.049	46.058	1.00	174.47	O
ATOM	2985	N	LEU	410	50.949	117.511	44.962	1.00	141.37	N
ATOM	2986	CA	LEU	410	51.771	118.236	45.875	1.00	141.37	C
ATOM	2987	CB	LEU	410	52.742	117.250	46.539	1.00	141.37	C
ATOM	2988	CG	LEU	410	53.446	117.757	47.788	1.00	141.37	C
ATOM	2989	CD1	LEU	410	54.377	116.677	48.347	1.00	141.37	C
ATOM	2990	CD2	LEU	410	54.143	119.087	47.513	1.00	141.37	C
ATOM	2991	C	LEU	410	52.485	119.282	45.080	1.00	141.37	C
ATOM	2992	O	LEU	410	52.953	119.017	43.973	1.00	141.37	O
ATOM	2993	N	LYS	411	52.541	120.528	45.593	1.00	141.79	N
ATOM	2994	CA	LYS	411	53.230	121.538	44.847	1.00	141.79	C
ATOM	2995	CB	LYS	411	52.323	122.294	43.864	1.00	141.79	C
ATOM	2996	CG	LYS	411	50.900	122.474	44.377	1.00	141.79	C
ATOM	2997	CD	LYS	411	49.998	123.228	43.403	1.00	141.79	C
ATOM	2998	CE	LYS	411	48.524	122.872	43.579	1.00	141.79	C
ATOM	2999	NZ	LYS	411	48.314	121.454	43.213	1.00	141.79	N
ATOM	3000	C	LYS	411	53.916	122.481	45.776	1.00	141.79	C
ATOM	3001	O	LYS	411	53.291	123.151	46.597	1.00	141.79	O
ATOM	3002	N	GLY	412	55.257	122.530	45.659	1.00	33.95	N

ATOM	3003	CA	GLY	412	56.062	123.435	46.422	1.00	33.95	C
ATOM	3004	C	GLY	412	55.937	123.134	47.882	1.00	33.95	C
ATOM	3005	O	GLY	412	55.768	124.050	48.685	1.00	33.95	O
ATOM	3006	N	LEU	413	56.012	121.850	48.281	1.00	127.02	N
ATOM	3007	CA	LEU	413	55.880	121.577	49.682	1.00	127.02	C
ATOM	3008	CB	LEU	413	55.158	120.254	50.012	1.00	127.02	C
ATOM	3009	CG	LEU	413	55.009	119.917	51.512	1.00	127.02	C
ATOM	3010	CD1	LEU	413	53.969	118.817	51.710	1.00	127.02	C
ATOM	3011	CD2	LEU	413	56.331	119.461	52.148	1.00	127.02	C
ATOM	3012	C	LEU	413	57.227	121.572	50.320	1.00	127.02	C
ATOM	3013	O	LEU	413	58.168	120.937	49.843	1.00	127.02	O
ATOM	3014	N	ASN	414	57.332	122.319	51.437	1.00	54.69	N
ATOM	3015	CA	ASN	414	58.539	122.384	52.202	1.00	54.69	C
ATOM	3016	CB	ASN	414	59.166	123.788	52.229	1.00	54.69	C
ATOM	3017	CG	ASN	414	59.691	124.103	50.836	1.00	54.69	C
ATOM	3018	OD1	ASN	414	60.710	123.564	50.407	1.00	54.69	O
ATOM	3019	ND2	ASN	414	58.972	124.996	50.104	1.00	54.69	N
ATOM	3020	C	ASN	414	58.173	122.046	53.611	1.00	54.69	C
ATOM	3021	O	ASN	414	57.191	122.561	54.147	1.00	54.69	O
ATOM	3022	N	LEU	415	58.941	121.134	54.240	1.00	141.76	N
ATOM	3023	CA	LEU	415	58.650	120.819	55.602	1.00	141.76	C
ATOM	3024	CB	LEU	415	57.382	119.945	55.733	1.00	141.76	C
ATOM	3025	CG	LEU	415	56.961	119.549	57.163	1.00	141.76	C
ATOM	3026	CD1	LEU	415	55.564	118.923	57.156	1.00	141.76	C
ATOM	3027	CD2	LEU	415	57.955	118.584	57.816	1.00	141.76	C
ATOM	3028	C	LEU	415	59.845	120.127	56.170	1.00	141.76	C
ATOM	3029	O	LEU	415	60.476	119.294	55.518	1.00	141.76	O
ATOM	3030	N	LYS	416	60.210	120.493	57.411	1.00	137.82	N
ATOM	3031	CA	LYS	416	61.316	119.839	58.031	1.00	137.82	C
ATOM	3032	CB	LYS	416	62.555	120.731	58.210	1.00	137.82	C
ATOM	3033	CG	LYS	416	62.294	122.048	58.932	1.00	137.82	C
ATOM	3034	CD	LYS	416	63.588	122.769	59.311	1.00	137.82	C
ATOM	3035	CE	LYS	416	63.366	124.143	59.940	1.00	137.82	C
ATOM	3036	NZ	LYS	416	62.789	125.070	58.941	1.00	137.82	N
ATOM	3037	C	LYS	416	60.868	119.315	59.350	1.00	137.82	C
ATOM	3038	O	LYS	416	59.929	119.826	59.963	1.00	137.82	O
ATOM	3039	N	VAL	417	61.514	118.217	59.787	1.00	67.25	N
ATOM	3040	CA	VAL	417	61.189	117.620	61.048	1.00	67.25	C
ATOM	3041	CB	VAL	417	60.562	116.261	60.892	1.00	67.25	C
ATOM	3042	CG1	VAL	417	60.250	115.685	62.282	1.00	67.25	C
ATOM	3043	CG2	VAL	417	59.330	116.398	59.984	1.00	67.25	C
ATOM	3044	C	VAL	417	62.471	117.436	61.808	1.00	67.25	C
ATOM	3045	O	VAL	417	63.399	116.778	61.334	1.00	67.25	O
ATOM	3046	N	GLN	418	62.533	117.996	63.034	1.00	62.33	N
ATOM	3047	CA	GLN	418	63.706	117.917	63.859	1.00	62.33	C
ATOM	3048	CB	GLN	418	63.657	118.823	65.102	1.00	62.33	C
ATOM	3049	CG	GLN	418	63.632	120.317	64.773	1.00	62.33	C
ATOM	3050	CD	GLN	418	63.581	121.087	66.086	1.00	62.33	C
ATOM	3051	OE1	GLN	418	63.499	120.497	67.162	1.00	62.33	O
ATOM	3052	NE2	GLN	418	63.627	122.443	65.997	1.00	62.33	N
ATOM	3053	C	GLN	418	63.810	116.512	64.333	1.00	62.33	C
ATOM	3054	O	GLN	418	62.820	115.788	64.281	1.00	62.33	O
ATOM	3055	N	SER	419	65.000	116.129	64.853	1.00	153.60	N
ATOM	3056	CA	SER	419	65.354	114.764	65.150	1.00	153.60	C
ATOM	3057	CB	SER	419	66.636	114.659	65.992	1.00	153.60	C
ATOM	3058	OG	SER	419	66.935	113.297	66.255	1.00	153.60	O
ATOM	3059	C	SER	419	64.265	114.027	65.870	1.00	153.60	C
ATOM	3060	O	SER	419	63.342	113.548	65.257	1.00	153.60	O
ATOM	3061	N	GLY	420	64.258	113.943	67.190	1.00	143.66	N
ATOM	3062	CA	GLY	420	63.321	113.162	67.953	1.00	143.66	C
ATOM	3063	C	GLY	420	61.893	113.641	67.843	1.00	143.66	C
ATOM	3064	O	GLY	420	60.992	112.959	68.330	1.00	143.66	O
ATOM	3065	N	GLN	421	61.636	114.859	67.324	1.00	146.54	N
ATOM	3066	CA	GLN	421	60.303	115.409	67.401	1.00	146.54	C
ATOM	3067	CB	GLN	421	60.179	116.908	67.072	1.00	146.54	C
ATOM	3068	CG	GLN	421	60.382	117.286	65.608	1.00	146.54	C
ATOM	3069	CD	GLN	421	60.086	118.776	65.495	1.00	146.54	C
ATOM	3070	OE1	GLN	421	59.940	119.315	64.399	1.00	146.54	O
ATOM	3071	NE2	GLN	421	59.987	119.464	66.665	1.00	146.54	N
ATOM	3072	C	GLN	421	59.270	114.679	66.587	1.00	146.54	C
ATOM	3073	O	GLN	421	59.571	113.816	65.762	1.00	146.54	O
ATOM	3074	N	THR	422	57.984	115.010	66.873	1.00	51.40	N
ATOM	3075	CA	THR	422	56.845	114.426	66.220	1.00	51.40	C
ATOM	3076	CB	THR	422	55.905	113.758	67.186	1.00	51.40	C

ATOM	3077	OG1	THR	422	56.582	112.736	67.903	1.00	51.40	O
ATOM	3078	CG2	THR	422	54.719	113.163	66.411	1.00	51.40	C
ATOM	3079	C	THR	422	56.073	115.521	65.541	1.00	51.40	C
ATOM	3080	O	THR	422	55.817	116.574	66.124	1.00	51.40	O
ATOM	3081	N	VAL	423	55.686	115.287	64.268	1.00	99.23	N
ATOM	3082	CA	VAL	423	54.930	116.240	63.509	1.00	99.23	C
ATOM	3083	CB	VAL	423	55.652	116.739	62.291	1.00	99.23	C
ATOM	3084	CG1	VAL	423	55.957	115.539	61.378	1.00	99.23	C
ATOM	3085	CG2	VAL	423	54.791	117.822	61.618	1.00	99.23	C
ATOM	3086	C	VAL	423	53.688	115.541	63.043	1.00	99.23	C
ATOM	3087	O	VAL	423	53.730	114.364	62.685	1.00	99.23	O
ATOM	3088	N	ALA	424	52.542	116.255	63.055	1.00	43.33	N
ATOM	3089	CA	ALA	424	51.297	115.673	62.631	1.00	43.33	C
ATOM	3090	CB	ALA	424	50.198	115.729	63.707	1.00	43.33	C
ATOM	3091	C	ALA	424	50.794	116.446	61.447	1.00	43.33	C
ATOM	3092	O	ALA	424	50.778	117.677	61.455	1.00	43.33	O
ATOM	3093	N	LEU	425	50.350	115.723	60.398	1.00	62.58	N
ATOM	3094	CA	LEU	425	49.881	116.344	59.187	1.00	62.58	C
ATOM	3095	CB	LEU	425	50.425	115.657	57.921	1.00	62.58	C
ATOM	3096	CG	LEU	425	51.967	115.588	57.868	1.00	62.58	C
ATOM	3097	CD1	LEU	425	52.458	115.006	56.532	1.00	62.58	C
ATOM	3098	CD2	LEU	425	52.612	116.940	58.210	1.00	62.58	C
ATOM	3099	C	LEU	425	48.382	116.226	59.150	1.00	62.58	C
ATOM	3100	O	LEU	425	47.826	115.173	59.456	1.00	62.58	O
ATOM	3101	N	VAL	426	47.680	117.319	58.768	1.00	47.78	N
ATOM	3102	CA	VAL	426	46.242	117.299	58.751	1.00	47.78	C
ATOM	3103	CB	VAL	426	45.658	117.975	59.962	1.00	47.78	C
ATOM	3104	CG1	VAL	426	44.123	117.930	59.892	1.00	47.78	C
ATOM	3105	CG2	VAL	426	46.248	117.308	61.217	1.00	47.78	C
ATOM	3106	C	VAL	426	45.762	118.033	57.527	1.00	47.78	C
ATOM	3107	O	VAL	426	46.498	118.824	56.941	1.00	47.78	O
ATOM	3108	N	GLY	427	44.505	117.767	57.099	1.00	31.08	N
ATOM	3109	CA	GLY	427	43.971	118.437	55.945	1.00	31.08	C
ATOM	3110	C	GLY	427	42.688	117.775	55.534	1.00	31.08	C
ATOM	3111	O	GLY	427	42.164	116.900	56.221	1.00	31.08	O
ATOM	3112	N	ASN	428	42.156	118.211	54.374	1.00	59.81	N
ATOM	3113	CA	ASN	428	40.928	117.726	53.805	1.00	59.81	C
ATOM	3114	CB	ASN	428	40.208	118.774	52.942	1.00	59.81	C
ATOM	3115	CG	ASN	428	39.769	119.908	53.860	1.00	59.81	C
ATOM	3116	OD1	ASN	428	39.739	119.759	55.080	1.00	59.81	O
ATOM	3117	ND2	ASN	428	39.415	121.074	53.257	1.00	59.81	N
ATOM	3118	C	ASN	428	41.270	116.564	52.927	1.00	59.81	C
ATOM	3119	O	ASN	428	42.119	115.745	53.272	1.00	59.81	O
ATOM	3120	N	SER	429	40.557	116.426	51.789	1.00	78.00	N
ATOM	3121	CA	SER	429	40.845	115.359	50.873	1.00	78.00	C
ATOM	3122	CB	SER	429	39.591	114.651	50.334	1.00	78.00	C
ATOM	3123	OG	SER	429	38.809	115.561	49.575	1.00	78.00	O
ATOM	3124	C	SER	429	41.570	115.949	49.698	1.00	78.00	C
ATOM	3125	O	SER	429	41.383	117.117	49.360	1.00	78.00	O
ATOM	3126	N	GLY	430	42.456	115.150	49.067	1.00	24.78	N
ATOM	3127	CA	GLY	430	43.182	115.595	47.909	1.00	24.78	C
ATOM	3128	C	GLY	430	44.300	116.491	48.353	1.00	24.78	C
ATOM	3129	O	GLY	430	44.910	117.181	47.538	1.00	24.78	O
ATOM	3130	N	CYS	431	44.562	116.530	49.672	1.00	59.81	N
ATOM	3131	CA	CYS	431	45.591	117.348	50.256	1.00	59.81	C
ATOM	3132	CB	CYS	431	45.463	117.414	51.787	1.00	59.81	C
ATOM	3133	SG	CYS	431	45.279	115.767	52.528	1.00	59.81	S
ATOM	3134	C	CYS	431	46.976	116.874	49.904	1.00	59.81	C
ATOM	3135	O	CYS	431	47.817	117.683	49.508	1.00	59.81	O
ATOM	3136	N	GLY	432	47.236	115.547	49.979	1.00	54.42	N
ATOM	3137	CA	GLY	432	48.558	115.042	49.700	1.00	54.42	C
ATOM	3138	C	GLY	432	49.287	114.593	50.944	1.00	54.42	C
ATOM	3139	O	GLY	432	50.517	114.605	50.971	1.00	54.42	O
ATOM	3140	N	LYS	433	48.566	114.241	52.029	1.00	101.23	N
ATOM	3141	CA	LYS	433	49.192	113.779	53.247	1.00	101.23	C
ATOM	3142	CB	LYS	433	48.207	113.721	54.425	1.00	101.23	C
ATOM	3143	CG	LYS	433	47.646	115.092	54.808	1.00	101.23	C
ATOM	3144	CD	LYS	433	46.454	115.019	55.765	1.00	101.23	C
ATOM	3145	CE	LYS	433	45.259	114.249	55.199	1.00	101.23	C
ATOM	3146	NZ	LYS	433	44.086	114.410	56.086	1.00	101.23	N
ATOM	3147	C	LYS	433	49.795	112.406	53.110	1.00	101.23	C
ATOM	3148	O	LYS	433	50.962	112.197	53.439	1.00	101.23	O
ATOM	3149	N	SER	434	49.021	111.434	52.588	1.00	60.69	N
ATOM	3150	CA	SER	434	49.472	110.072	52.523	1.00	60.69	C

ATOM	3151	CB	SER	434	48.396	109.092	52.028	1.00	60.69	C
ATOM	3152	OG	SER	434	47.368	108.976	53.000	1.00	60.69	O
ATOM	3153	C	SER	434	50.632	109.998	51.589	1.00	60.69	C
ATOM	3154	O	SER	434	51.400	109.038	51.630	1.00	60.69	O
ATOM	3155	N	THR	435	50.789	111.012	50.717	1.00	145.07	N
ATOM	3156	CA	THR	435	51.870	111.017	49.778	1.00	145.07	C
ATOM	3157	CB	THR	435	51.806	112.129	48.759	1.00	145.07	C
ATOM	3158	OG1	THR	435	52.579	111.769	47.628	1.00	145.07	O
ATOM	3159	CG2	THR	435	52.380	113.427	49.342	1.00	145.07	C
ATOM	3160	C	THR	435	53.150	111.127	50.546	1.00	145.07	C
ATOM	3161	O	THR	435	54.176	110.595	50.128	1.00	145.07	O
ATOM	3162	N	THR	436	53.120	111.828	51.697	1.00	44.45	N
ATOM	3163	CA	THR	436	54.303	112.042	52.484	1.00	44.45	C
ATOM	3164	CB	THR	436	54.041	112.870	53.711	1.00	44.45	C
ATOM	3165	OG1	THR	436	53.525	114.142	53.345	1.00	44.45	O
ATOM	3166	CG2	THR	436	55.358	113.036	54.488	1.00	44.45	C
ATOM	3167	C	THR	436	54.874	110.735	52.935	1.00	44.45	C
ATOM	3168	O	THR	436	56.078	110.512	52.816	1.00	44.45	O
ATOM	3169	N	VAL	437	54.033	109.823	53.459	1.00	60.78	N
ATOM	3170	CA	VAL	437	54.564	108.577	53.926	1.00	60.78	C
ATOM	3171	CB	VAL	437	53.556	107.686	54.580	1.00	60.78	C
ATOM	3172	CG1	VAL	437	54.217	106.317	54.831	1.00	60.78	C
ATOM	3173	CG2	VAL	437	53.078	108.379	55.867	1.00	60.78	C
ATOM	3174	C	VAL	437	55.148	107.835	52.770	1.00	60.78	C
ATOM	3175	O	VAL	437	56.195	107.202	52.891	1.00	60.78	O
ATOM	3176	N	GLN	438	54.469	107.881	51.613	1.00	150.88	N
ATOM	3177	CA	GLN	438	54.917	107.152	50.468	1.00	150.88	C
ATOM	3178	CB	GLN	438	53.812	106.925	49.429	1.00	150.88	C
ATOM	3179	CG	GLN	438	53.144	108.183	48.904	1.00	150.88	C
ATOM	3180	CD	GLN	438	51.841	107.700	48.295	1.00	150.88	C
ATOM	3181	OE1	GLN	438	51.500	108.055	47.171	1.00	150.88	O
ATOM	3182	NE2	GLN	438	51.088	106.863	49.058	1.00	150.88	N
ATOM	3183	C	GLN	438	56.184	107.693	49.868	1.00	150.88	C
ATOM	3184	O	GLN	438	56.953	106.939	49.274	1.00	150.88	O
ATOM	3185	N	LEU	439	56.410	109.017	49.931	1.00	65.64	N
ATOM	3186	CA	LEU	439	57.628	109.592	49.427	1.00	65.64	C
ATOM	3187	CB	LEU	439	57.580	111.131	49.368	1.00	65.64	C
ATOM	3188	CG	LEU	439	56.504	111.692	48.417	1.00	65.64	C
ATOM	3189	CD1	LEU	439	56.518	113.230	48.401	1.00	65.64	C
ATOM	3190	CD2	LEU	439	56.621	111.079	47.013	1.00	65.64	C
ATOM	3191	C	LEU	439	58.791	109.230	50.315	1.00	65.64	C
ATOM	3192	O	LEU	439	59.907	109.025	49.839	1.00	65.64	O
ATOM	3193	N	MET	440	58.557	109.188	51.643	1.00	141.88	N
ATOM	3194	CA	MET	440	59.574	108.958	52.640	1.00	141.88	C
ATOM	3195	CB	MET	440	58.982	108.989	54.063	1.00	141.88	C
ATOM	3196	CG	MET	440	59.903	109.492	55.182	1.00	141.88	C
ATOM	3197	SD	MET	440	61.650	109.015	55.077	1.00	141.88	S
ATOM	3198	CE	MET	440	62.082	110.506	54.132	1.00	141.88	C
ATOM	3199	C	MET	440	60.137	107.577	52.473	1.00	141.88	C
ATOM	3200	O	MET	440	61.336	107.342	52.606	1.00	141.88	O
ATOM	3201	N	GLN	441	59.243	106.611	52.232	1.00	153.81	N
ATOM	3202	CA	GLN	441	59.549	105.232	52.003	1.00	153.81	C
ATOM	3203	CB	GLN	441	58.288	104.369	52.149	1.00	153.81	C
ATOM	3204	CG	GLN	441	58.556	102.890	52.406	1.00	153.81	C
ATOM	3205	CD	GLN	441	57.255	102.284	52.922	1.00	153.81	C
ATOM	3206	OE1	GLN	441	57.117	101.066	53.021	1.00	153.81	O
ATOM	3207	NE2	GLN	441	56.271	103.159	53.266	1.00	153.81	N
ATOM	3208	C	GLN	441	60.173	105.113	50.634	1.00	153.81	C
ATOM	3209	O	GLN	441	60.833	104.120	50.329	1.00	153.81	O
ATOM	3210	N	ARG	442	59.964	106.122	49.756	1.00	207.53	N
ATOM	3211	CA	ARG	442	60.523	106.099	48.426	1.00	207.53	C
ATOM	3212	CB	ARG	442	62.029	105.731	48.453	1.00	207.53	C
ATOM	3213	CG	ARG	442	62.737	105.665	47.093	1.00	207.53	C
ATOM	3214	CD	ARG	442	62.918	107.003	46.385	1.00	207.53	C
ATOM	3215	NE	ARG	442	64.376	107.194	46.146	1.00	207.53	N
ATOM	3216	CZ	ARG	442	64.969	106.605	45.067	1.00	207.53	C
ATOM	3217	NH1	ARG	442	64.249	105.769	44.265	1.00	207.53	N
ATOM	3218	NH2	ARG	442	66.280	106.850	44.782	1.00	207.53	N
ATOM	3219	C	ARG	442	59.778	105.118	47.563	1.00	207.53	C
ATOM	3220	O	ARG	442	60.334	104.442	46.697	1.00	207.53	O
ATOM	3221	N	LEU	443	58.459	105.023	47.790	1.00	134.02	N
ATOM	3222	CA	LEU	443	57.592	104.254	46.949	1.00	134.02	C
ATOM	3223	CB	LEU	443	56.138	104.301	47.457	1.00	134.02	C
ATOM	3224	CG	LEU	443	55.846	103.450	48.711	1.00	134.02	C

ATOM	3225	CD1	LEU	443	55.464	102.010	48.363	1.00134.02	C
ATOM	3226	CD2	LEU	443	57.046	103.435	49.654	1.00134.02	C
ATOM	3227	C	LEU	443	57.617	104.924	45.602	1.00134.02	C
ATOM	3228	O	LEU	443	57.552	104.260	44.569	1.00134.02	O
ATOM	3229	N	TYR	444	57.686	106.275	45.586	1.00 89.63	N
ATOM	3230	CA	TYR	444	57.712	107.028	44.357	1.00 89.63	C
ATOM	3231	CB	TYR	444	56.475	107.914	44.141	1.00 89.63	C
ATOM	3232	CG	TYR	444	55.256	107.070	44.209	1.00 89.63	C
ATOM	3233	CD1	TYR	444	54.784	106.397	43.107	1.00 89.63	C
ATOM	3234	CD2	TYR	444	54.583	106.967	45.402	1.00 89.63	C
ATOM	3235	CE1	TYR	444	53.651	105.624	43.204	1.00 89.63	C
ATOM	3236	CE2	TYR	444	53.452	106.198	45.505	1.00 89.63	C
ATOM	3237	CZ	TYR	444	52.986	105.527	44.404	1.00 89.63	C
ATOM	3238	OH	TYR	444	51.824	104.737	44.515	1.00 89.63	O
ATOM	3239	C	TYR	444	58.828	108.019	44.465	1.00 89.63	C
ATOM	3240	O	TYR	444	59.294	108.316	45.562	1.00 89.63	O
ATOM	3241	N	ASP	445	59.297	108.542	43.310	1.00 76.03	N
ATOM	3242	CA	ASP	445	60.300	109.573	43.294	1.00 76.03	C
ATOM	3243	CB	ASP	445	61.387	109.387	42.216	1.00 76.03	C
ATOM	3244	CG	ASP	445	62.398	108.358	42.704	1.00 76.03	C
ATOM	3245	OD1	ASP	445	62.828	108.478	43.882	1.00 76.03	O
ATOM	3246	OD2	ASP	445	62.754	107.445	41.912	1.00 76.03	O
ATOM	3247	C	ASP	445	59.612	110.877	42.996	1.00 76.03	C
ATOM	3248	O	ASP	445	58.751	110.927	42.121	1.00 76.03	O
ATOM	3249	N	PRO	446	59.932	111.941	43.701	1.00 87.79	N
ATOM	3250	CA	PRO	446	59.321	113.217	43.424	1.00 87.79	C
ATOM	3251	CD	PRO	446	60.407	111.852	45.070	1.00 87.79	C
ATOM	3252	CB	PRO	446	59.550	114.082	44.667	1.00 87.79	C
ATOM	3253	CG	PRO	446	60.611	113.319	45.484	1.00 87.79	C
ATOM	3254	C	PRO	446	59.872	113.797	42.159	1.00 87.79	C
ATOM	3255	O	PRO	446	61.053	113.600	41.876	1.00 87.79	O
ATOM	3256	N	THR	447	59.031	114.490	41.367	1.00115.39	N
ATOM	3257	CA	THR	447	59.502	115.057	40.136	1.00115.39	C
ATOM	3258	CB	THR	447	58.387	115.553	39.253	1.00115.39	C
ATOM	3259	OG1	THR	447	58.918	116.036	38.027	1.00115.39	O
ATOM	3260	CG2	THR	447	57.593	116.656	39.973	1.00115.39	C
ATOM	3261	C	THR	447	60.450	116.184	40.399	1.00115.39	C
ATOM	3262	O	THR	447	61.559	116.210	39.867	1.00115.39	O
ATOM	3263	N	GLU	448	60.054	117.139	41.260	1.00 75.84	N
ATOM	3264	CA	GLU	448	60.901	118.260	41.526	1.00 75.84	C
ATOM	3265	CB	GLU	448	60.300	119.619	41.126	1.00 75.84	C
ATOM	3266	CG	GLU	448	61.282	120.783	41.294	1.00 75.84	C
ATOM	3267	CD	GLU	448	60.585	122.068	40.870	1.00 75.84	C
ATOM	3268	OE1	GLU	448	59.391	121.992	40.473	1.00 75.84	O
ATOM	3269	OE2	GLU	448	61.237	123.143	40.939	1.00 75.84	O
ATOM	3270	C	GLU	448	61.109	118.281	42.998	1.00 75.84	C
ATOM	3271	O	GLU	448	60.353	117.668	43.750	1.00 75.84	O
ATOM	3272	N	GLY	449	62.171	118.970	43.445	1.00 25.18	N
ATOM	3273	CA	GLY	449	62.410	119.059	44.851	1.00 25.18	C
ATOM	3274	C	GLY	449	63.283	117.923	45.266	1.00 25.18	C
ATOM	3275	O	GLY	449	63.744	117.130	44.445	1.00 25.18	O
ATOM	3276	N	MET	450	63.548	117.839	46.584	1.00 86.26	N
ATOM	3277	CA	MET	450	64.408	116.808	47.076	1.00 86.26	C
ATOM	3278	CB	MET	450	65.870	117.278	47.166	1.00 86.26	C
ATOM	3279	CG	MET	450	66.860	116.214	47.638	1.00 86.26	C
ATOM	3280	SD	MET	450	68.580	116.798	47.733	1.00 86.26	S
ATOM	3281	CE	MET	450	68.294	117.900	49.148	1.00 86.26	C
ATOM	3282	C	MET	450	63.968	116.456	48.461	1.00 86.26	C
ATOM	3283	O	MET	450	63.637	117.333	49.260	1.00 86.26	O
ATOM	3284	N	VAL	451	63.942	115.146	48.779	1.00127.46	N
ATOM	3285	CA	VAL	451	63.632	114.759	50.122	1.00127.46	C
ATOM	3286	CB	VAL	451	62.578	113.692	50.247	1.00127.46	C
ATOM	3287	CG1	VAL	451	63.169	112.323	49.904	1.00127.46	C
ATOM	3288	CG2	VAL	451	61.985	113.770	51.657	1.00127.46	C
ATOM	3289	C	VAL	451	64.924	114.275	50.692	1.00127.46	C
ATOM	3290	O	VAL	451	65.642	113.495	50.065	1.00127.46	O
ATOM	3291	N	SER	452	65.266	114.755	51.901	1.00 56.59	N
ATOM	3292	CA	SER	452	66.556	114.433	52.426	1.00 56.59	C
ATOM	3293	CB	SER	452	67.482	115.662	52.501	1.00 56.59	C
ATOM	3294	OG	SER	452	68.748	115.305	53.033	1.00 56.59	O
ATOM	3295	C	SER	452	66.423	113.911	53.813	1.00 56.59	C
ATOM	3296	O	SER	452	65.490	114.249	54.540	1.00 56.59	O
ATOM	3297	N	VAL	453	67.365	113.022	54.181	1.00114.73	N
ATOM	3298	CA	VAL	453	67.465	112.536	55.520	1.00114.73	C

ATOM	3299	CB	VAL	453	67.247	111.052	55.653	1.00114.73	C
ATOM	3300	CG1	VAL	453	68.268	110.300	54.781	1.00114.73	C
ATOM	3301	CG2	VAL	453	67.319	110.688	57.145	1.00114.73	C
ATOM	3302	C	VAL	453	68.853	112.874	55.967	1.00114.73	C
ATOM	3303	O	VAL	453	69.837	112.472	55.346	1.00114.73	O
ATOM	3304	N	ASP	454	68.953	113.650	57.064	1.00 55.31	N
ATOM	3305	CA	ASP	454	70.214	114.060	57.612	1.00 55.31	C
ATOM	3306	CB	ASP	454	71.039	112.898	58.192	1.00 55.31	C
ATOM	3307	CG	ASP	454	70.348	112.437	59.467	1.00 55.31	C
ATOM	3308	OD1	ASP	454	69.308	113.050	59.827	1.00 55.31	O
ATOM	3309	OD2	ASP	454	70.853	111.472	60.100	1.00 55.31	O
ATOM	3310	C	ASP	454	71.036	114.754	56.571	1.00 55.31	C
ATOM	3311	O	ASP	454	72.256	114.599	56.525	1.00 55.31	O
ATOM	3312	N	GLY	455	70.387	115.545	55.699	1.00 31.82	N
ATOM	3313	CA	GLY	455	71.125	116.330	54.752	1.00 31.82	C
ATOM	3314	C	GLY	455	71.501	115.512	53.550	1.00 31.82	C
ATOM	3315	O	GLY	455	72.097	116.046	52.616	1.00 31.82	O
ATOM	3316	N	GLN	456	71.174	114.201	53.528	1.00123.60	N
ATOM	3317	CA	GLN	456	71.497	113.396	52.378	1.00123.60	C
ATOM	3318	CB	GLN	456	71.930	111.949	52.654	1.00123.60	C
ATOM	3319	CG	GLN	456	73.390	111.704	52.993	1.00123.60	C
ATOM	3320	CD	GLN	456	73.541	110.189	53.005	1.00123.60	C
ATOM	3321	OE1	GLN	456	74.320	109.617	52.243	1.00123.60	O
ATOM	3322	NE2	GLN	456	72.751	109.517	53.885	1.00123.60	N
ATOM	3323	C	GLN	456	70.258	113.174	51.593	1.00123.60	C
ATOM	3324	O	GLN	456	69.192	112.921	52.149	1.00123.60	O
ATOM	3325	N	ASP	457	70.391	113.215	50.257	1.00 52.41	N
ATOM	3326	CA	ASP	457	69.265	112.992	49.409	1.00 52.41	C
ATOM	3327	CB	ASP	457	69.598	113.220	47.923	1.00 52.41	C
ATOM	3328	CG	ASP	457	68.314	113.296	47.109	1.00 52.41	C
ATOM	3329	OD1	ASP	457	67.218	113.044	47.677	1.00 52.41	O
ATOM	3330	OD2	ASP	457	68.417	113.616	45.895	1.00 52.41	O
ATOM	3331	C	ASP	457	68.864	111.559	49.587	1.00 52.41	C
ATOM	3332	O	ASP	457	69.705	110.672	49.719	1.00 52.41	O
ATOM	3333	N	ILE	458	67.545	111.305	49.605	1.00 74.25	N
ATOM	3334	CA	ILE	458	67.000	109.986	49.780	1.00 74.25	C
ATOM	3335	CB	ILE	458	65.506	109.970	49.903	1.00 74.25	C
ATOM	3336	CG1	ILE	458	65.035	108.599	50.415	1.00 74.25	C
ATOM	3337	CG2	ILE	458	64.908	110.367	48.542	1.00 74.25	C
ATOM	3338	CD1	ILE	458	63.576	108.588	50.872	1.00 74.25	C
ATOM	3339	C	ILE	458	67.364	109.110	48.615	1.00 74.25	C
ATOM	3340	O	ILE	458	67.586	107.911	48.767	1.00 74.25	O
ATOM	3341	N	ARG	459	67.408	109.686	47.404	1.00 94.40	N
ATOM	3342	CA	ARG	459	67.640	108.945	46.194	1.00 94.40	C
ATOM	3343	CB	ARG	459	67.466	109.802	44.929	1.00 94.40	C
ATOM	3344	CG	ARG	459	66.022	110.277	44.747	1.00 94.40	C
ATOM	3345	CD	ARG	459	65.737	110.935	43.396	1.00 94.40	C
ATOM	3346	NE	ARG	459	66.519	112.201	43.329	1.00 94.40	N
ATOM	3347	CZ	ARG	459	66.017	113.345	43.878	1.00 94.40	C
ATOM	3348	NH1	ARG	459	64.827	113.317	44.546	1.00 94.40	N
ATOM	3349	NH2	ARG	459	66.705	114.519	43.762	1.00 94.40	N
ATOM	3350	C	ARG	459	69.013	108.338	46.181	1.00 94.40	C
ATOM	3351	O	ARG	459	69.252	107.388	45.439	1.00 94.40	O
ATOM	3352	N	THR	460	69.971	108.936	46.914	1.00 84.64	N
ATOM	3353	CA	THR	460	71.341	108.492	46.974	1.00 84.64	C
ATOM	3354	CB	THR	460	72.276	109.528	47.533	1.00 84.64	C
ATOM	3355	OG1	THR	460	71.982	109.791	48.896	1.00 84.64	O
ATOM	3356	CG2	THR	460	72.126	110.814	46.702	1.00 84.64	C
ATOM	3357	C	THR	460	71.537	107.239	47.782	1.00 84.64	C
ATOM	3358	O	THR	460	72.509	106.524	47.562	1.00 84.64	O
ATOM	3359	N	ILE	461	70.672	106.976	48.779	1.00188.85	N
ATOM	3360	CA	ILE	461	70.803	105.875	49.703	1.00188.85	C
ATOM	3361	CB	ILE	461	70.331	106.277	51.078	1.00188.85	C
ATOM	3362	CG1	ILE	461	70.253	105.088	52.036	1.00188.85	C
ATOM	3363	CG2	ILE	461	69.050	107.104	50.945	1.00188.85	C
ATOM	3364	CD1	ILE	461	69.892	105.494	53.465	1.00188.85	C
ATOM	3365	C	ILE	461	70.116	104.616	49.227	1.00188.85	C
ATOM	3366	O	ILE	461	69.165	104.642	48.446	1.00188.85	O
ATOM	3367	N	ASN	462	70.646	103.450	49.669	1.00 66.83	N
ATOM	3368	CA	ASN	462	70.161	102.148	49.281	1.00 66.83	C
ATOM	3369	CB	ASN	462	71.005	101.006	49.877	1.00 66.83	C
ATOM	3370	CG	ASN	462	70.531	99.682	49.300	1.00 66.83	C
ATOM	3371	OD1	ASN	462	70.405	99.526	48.086	1.00 66.83	O
ATOM	3372	ND2	ASN	462	70.264	98.696	50.197	1.00 66.83	N

ATOM	3373	C	ASN	462	68.744	101.982	49.752	1.00	66.83	C
ATOM	3374	O	ASN	462	68.387	102.383	50.857	1.00	66.83	O
ATOM	3375	N	VAL	463	67.893	101.378	48.897	1.00	62.90	N
ATOM	3376	CA	VAL	463	66.490	101.218	49.150	1.00	62.90	C
ATOM	3377	CB	VAL	463	65.763	100.661	47.961	1.00	62.90	C
ATOM	3378	CG1	VAL	463	64.291	100.430	48.341	1.00	62.90	C
ATOM	3379	CG2	VAL	463	65.953	101.633	46.782	1.00	62.90	C
ATOM	3380	C	VAL	463	66.223	100.313	50.322	1.00	62.90	C
ATOM	3381	O	VAL	463	65.413	100.647	51.184	1.00	62.90	O
ATOM	3382	N	ARG	464	66.890	99.143	50.396	1.00	197.54	N
ATOM	3383	CA	ARG	464	66.626	98.202	51.455	1.00	197.54	C
ATOM	3384	CB	ARG	464	67.481	96.929	51.373	1.00	197.54	C
ATOM	3385	CG	ARG	464	67.122	95.988	50.228	1.00	197.54	C
ATOM	3386	CD	ARG	464	68.027	94.756	50.170	1.00	197.54	C
ATOM	3387	NE	ARG	464	67.376	93.668	50.951	1.00	197.54	N
ATOM	3388	CZ	ARG	464	66.531	92.797	50.326	1.00	197.54	C
ATOM	3389	NH1	ARG	464	66.295	92.916	48.986	1.00	197.54	N
ATOM	3390	NH2	ARG	464	65.929	91.801	51.038	1.00	197.54	N
ATOM	3391	C	ARG	464	66.980	98.823	52.775	1.00	197.54	C
ATOM	3392	O	ARG	464	66.216	98.742	53.735	1.00	197.54	O
ATOM	3393	N	PHE	465	68.156	99.473	52.847	1.00	126.06	N
ATOM	3394	CA	PHE	465	68.648	100.060	54.062	1.00	126.06	C
ATOM	3395	CB	PHE	465	70.047	100.691	53.888	1.00	126.06	C
ATOM	3396	CG	PHE	465	70.498	101.333	55.164	1.00	126.06	C
ATOM	3397	CD1	PHE	465	70.160	102.637	55.453	1.00	126.06	C
ATOM	3398	CD2	PHE	465	71.272	100.643	56.070	1.00	126.06	C
ATOM	3399	CE1	PHE	465	70.578	103.236	56.620	1.00	126.06	C
ATOM	3400	CE2	PHE	465	71.693	101.237	57.240	1.00	126.06	C
ATOM	3401	CZ	PHE	465	71.348	102.537	57.519	1.00	126.06	C
ATOM	3402	C	PHE	465	67.711	101.141	54.485	1.00	126.06	C
ATOM	3403	O	PHE	465	67.421	101.285	55.672	1.00	126.06	O
ATOM	3404	N	LEU	466	67.226	101.951	53.525	1.00	137.51	N
ATOM	3405	CA	LEU	466	66.358	103.020	53.918	1.00	137.51	C
ATOM	3406	CB	LEU	466	66.063	104.063	52.822	1.00	137.51	C
ATOM	3407	CG	LEU	466	65.117	105.195	53.292	1.00	137.51	C
ATOM	3408	CD1	LEU	466	65.243	106.420	52.390	1.00	137.51	C
ATOM	3409	CD2	LEU	466	63.646	104.760	53.318	1.00	137.51	C
ATOM	3410	C	LEU	466	65.079	102.479	54.478	1.00	137.51	C
ATOM	3411	O	LEU	466	64.580	102.970	55.486	1.00	137.51	O
ATOM	3412	N	ARG	467	64.495	101.454	53.846	1.00	112.29	N
ATOM	3413	CA	ARG	467	63.262	100.910	54.347	1.00	112.29	C
ATOM	3414	CB	ARG	467	62.585	99.900	53.404	1.00	112.29	C
ATOM	3415	CG	ARG	467	61.821	100.547	52.245	1.00	112.29	C
ATOM	3416	CD	ARG	467	62.702	101.058	51.107	1.00	112.29	C
ATOM	3417	NE	ARG	467	61.800	101.655	50.082	1.00	112.29	N
ATOM	3418	CZ	ARG	467	61.221	100.876	49.124	1.00	112.29	C
ATOM	3419	NH1	ARG	467	61.446	99.529	49.108	1.00	112.29	N
ATOM	3420	NH2	ARG	467	60.413	101.444	48.181	1.00	112.29	N
ATOM	3421	C	ARG	467	63.504	100.217	55.651	1.00	112.29	C
ATOM	3422	O	ARG	467	62.583	100.064	56.450	1.00	112.29	O
ATOM	3423	N	GLU	468	64.724	99.689	55.856	1.00	71.57	N
ATOM	3424	CA	GLU	468	65.052	99.002	57.074	1.00	71.57	C
ATOM	3425	CB	GLU	468	66.420	98.304	56.979	1.00	71.57	C
ATOM	3426	CG	GLU	468	66.408	97.153	55.965	1.00	71.57	C
ATOM	3427	CD	GLU	468	67.837	96.698	55.700	1.00	71.57	C
ATOM	3428	OE1	GLU	468	68.773	97.310	56.279	1.00	71.57	O
ATOM	3429	OE2	GLU	468	68.010	95.733	54.907	1.00	71.57	O
ATOM	3430	C	GLU	468	65.061	99.977	58.227	1.00	71.57	C
ATOM	3431	O	GLU	468	64.613	99.656	59.326	1.00	71.57	O
ATOM	3432	N	ILE	469	65.594	101.194	58.005	1.00	203.22	N
ATOM	3433	CA	ILE	469	65.667	102.258	58.973	1.00	203.22	C
ATOM	3434	CB	ILE	469	66.644	103.363	58.632	1.00	203.22	C
ATOM	3435	CG1	ILE	469	66.720	104.362	59.786	1.00	203.22	C
ATOM	3436	CG2	ILE	469	66.310	104.026	57.298	1.00	203.22	C
ATOM	3437	CD1	ILE	469	67.746	105.464	59.555	1.00	203.22	C
ATOM	3438	C	ILE	469	64.304	102.808	59.276	1.00	203.22	C
ATOM	3439	O	ILE	469	64.140	103.568	60.230	1.00	203.22	O
ATOM	3440	N	ILE	470	63.307	102.553	58.405	1.00	183.35	N
ATOM	3441	CA	ILE	470	62.023	103.140	58.655	1.00	183.35	C
ATOM	3442	CB	ILE	470	61.509	103.892	57.458	1.00	183.35	C
ATOM	3443	CG1	ILE	470	60.786	105.171	57.886	1.00	183.35	C
ATOM	3444	CG2	ILE	470	60.594	102.953	56.662	1.00	183.35	C
ATOM	3445	CD1	ILE	470	59.768	104.974	58.997	1.00	183.35	C
ATOM	3446	C	ILE	470	61.036	102.039	58.959	1.00	183.35	C

ATOM	3447	O	ILE	470	61.136	100.930	58.433	1.00183.35	O
ATOM	3448	N	GLY	471	60.077	102.316	59.872	1.00 39.15	N
ATOM	3449	CA	GLY	471	59.023	101.391	60.187	1.00 39.15	C
ATOM	3450	C	GLY	471	57.736	102.090	59.856	1.00 39.15	C
ATOM	3451	O	GLY	471	57.565	103.271	60.154	1.00 39.15	O
ATOM	3452	N	VAL	472	56.779	101.368	59.240	1.00121.66	N
ATOM	3453	CA	VAL	472	55.539	101.988	58.865	1.00121.66	C
ATOM	3454	CB	VAL	472	55.201	101.798	57.411	1.00121.66	C
ATOM	3455	CG1	VAL	472	54.934	100.304	57.160	1.00121.66	C
ATOM	3456	CG2	VAL	472	54.020	102.710	57.043	1.00121.66	C
ATOM	3457	C	VAL	472	54.441	101.355	59.667	1.00121.66	C
ATOM	3458	O	VAL	472	54.565	100.217	60.117	1.00121.66	O
ATOM	3459	N	VAL	473	53.368	102.130	59.939	1.00 78.51	N
ATOM	3460	CA	VAL	473	52.193	101.600	60.573	1.00 78.51	C
ATOM	3461	CB	VAL	473	51.994	102.112	61.972	1.00 78.51	C
ATOM	3462	CG1	VAL	473	50.712	101.493	62.552	1.00 78.51	C
ATOM	3463	CG2	VAL	473	53.254	101.787	62.793	1.00 78.51	C
ATOM	3464	C	VAL	473	51.050	102.071	59.728	1.00 78.51	C
ATOM	3465	O	VAL	473	50.546	103.179	59.899	1.00 78.51	O
ATOM	3466	N	SER	474	50.568	101.210	58.816	1.00100.37	N
ATOM	3467	CA	SER	474	49.568	101.618	57.871	1.00100.37	C
ATOM	3468	CB	SER	474	49.468	100.665	56.669	1.00100.37	C
ATOM	3469	OG	SER	474	49.288	99.333	57.126	1.00100.37	O
ATOM	3470	C	SER	474	48.226	101.743	58.521	1.00100.37	C
ATOM	3471	O	SER	474	48.057	101.472	59.709	1.00100.37	O
ATOM	3472	N	GLN	475	47.236	102.213	57.730	1.00 69.31	N
ATOM	3473	CA	GLN	475	45.912	102.479	58.222	1.00 69.31	C
ATOM	3474	CB	GLN	475	44.998	103.047	57.123	1.00 69.31	C
ATOM	3475	CG	GLN	475	43.575	103.350	57.592	1.00 69.31	C
ATOM	3476	CD	GLN	475	42.799	103.898	56.403	1.00 69.31	C
ATOM	3477	OE1	GLN	475	41.629	104.260	56.521	1.00 69.31	O
ATOM	3478	NE2	GLN	475	43.464	103.955	55.217	1.00 69.31	N
ATOM	3479	C	GLN	475	45.265	101.213	58.711	1.00 69.31	C
ATOM	3480	O	GLN	475	44.800	101.156	59.848	1.00 69.31	O
ATOM	3481	N	GLU	476	45.245	100.145	57.886	1.00 88.05	N
ATOM	3482	CA	GLU	476	44.621	98.931	58.340	1.00 88.05	C
ATOM	3483	CB	GLU	476	43.674	98.269	57.326	1.00 88.05	C
ATOM	3484	CG	GLU	476	42.363	99.024	57.127	1.00 88.05	C
ATOM	3485	CD	GLU	476	41.518	98.240	56.135	1.00 88.05	C
ATOM	3486	OE1	GLU	476	41.973	97.147	55.704	1.00 88.05	O
ATOM	3487	OE2	GLU	476	40.404	98.721	55.798	1.00 88.05	O
ATOM	3488	C	GLU	476	45.724	97.959	58.586	1.00 88.05	C
ATOM	3489	O	GLU	476	46.637	97.827	57.775	1.00 88.05	O
ATOM	3490	N	PRO	477	45.665	97.283	59.699	1.00158.27	N
ATOM	3491	CA	PRO	477	46.728	96.379	60.031	1.00158.27	C
ATOM	3492	CD	PRO	477	45.048	97.854	60.885	1.00158.27	C
ATOM	3493	CB	PRO	477	46.601	96.100	61.526	1.00158.27	C
ATOM	3494	CG	PRO	477	45.880	97.340	62.073	1.00158.27	C
ATOM	3495	C	PRO	477	46.655	95.137	59.221	1.00158.27	C
ATOM	3496	O	PRO	477	45.560	94.606	59.032	1.00158.27	O
ATOM	3497	N	VAL	478	47.821	94.627	58.790	1.00125.11	N
ATOM	3498	CA	VAL	478	47.841	93.438	58.007	1.00125.11	C
ATOM	3499	CB	VAL	478	48.586	93.600	56.711	1.00125.11	C
ATOM	3500	CG1	VAL	478	50.046	93.967	57.022	1.00125.11	C
ATOM	3501	CG2	VAL	478	48.442	92.309	55.891	1.00125.11	C
ATOM	3502	C	VAL	478	48.533	92.383	58.802	1.00125.11	C
ATOM	3503	O	VAL	478	49.510	92.654	59.499	1.00125.11	O
ATOM	3504	N	LEU	479	47.993	91.151	58.758	1.00 92.81	N
ATOM	3505	CA	LEU	479	48.625	90.040	59.401	1.00 92.81	C
ATOM	3506	CB	LEU	479	47.854	89.431	60.582	1.00 92.81	C
ATOM	3507	CG	LEU	479	47.894	90.318	61.830	1.00 92.81	C
ATOM	3508	CD1	LEU	479	47.318	89.594	63.056	1.00 92.81	C
ATOM	3509	CD2	LEU	479	49.319	90.836	62.059	1.00 92.81	C
ATOM	3510	C	LEU	479	48.739	88.975	58.373	1.00 92.81	C
ATOM	3511	O	LEU	479	47.837	88.794	57.558	1.00 92.81	O
ATOM	3512	N	PHE	480	49.866	88.242	58.394	1.00 93.43	N
ATOM	3513	CA	PHE	480	50.087	87.217	57.423	1.00 93.43	C
ATOM	3514	CB	PHE	480	51.578	87.049	57.055	1.00 93.43	C
ATOM	3515	CG	PHE	480	52.053	88.317	56.421	1.00 93.43	C
ATOM	3516	CD1	PHE	480	51.864	88.551	55.078	1.00 93.43	C
ATOM	3517	CD2	PHE	480	52.695	89.277	57.171	1.00 93.43	C
ATOM	3518	CE1	PHE	480	52.302	89.718	54.495	1.00 93.43	C
ATOM	3519	CE2	PHE	480	53.135	90.447	56.594	1.00 93.43	C
ATOM	3520	CZ	PHE	480	52.939	90.671	55.253	1.00 93.43	C

ATOM	3521	C	PHE	480	49.617	85.933	58.024	1.00	93.43	C
ATOM	3522	O	PHE	480	49.702	85.731	59.235	1.00	93.43	O
ATOM	3523	N	ALA	481	49.092	85.018	57.186	1.00	91.93	N
ATOM	3524	CA	ALA	481	48.583	83.815	57.771	1.00	91.93	C
ATOM	3525	CB	ALA	481	47.679	83.013	56.820	1.00	91.93	C
ATOM	3526	C	ALA	481	49.752	82.952	58.115	1.00	91.93	C
ATOM	3527	O	ALA	481	50.184	82.107	57.332	1.00	91.93	O
ATOM	3528	N	THR	482	50.273	83.137	59.339	1.00	73.34	N
ATOM	3529	CA	THR	482	51.381	82.370	59.817	1.00	73.34	C
ATOM	3530	CB	THR	482	52.697	82.957	59.375	1.00	73.34	C
ATOM	3531	OG1	THR	482	52.677	83.165	57.970	1.00	73.34	O
ATOM	3532	CG2	THR	482	53.833	81.968	59.698	1.00	73.34	C
ATOM	3533	C	THR	482	51.277	82.467	61.309	1.00	73.34	C
ATOM	3534	O	THR	482	50.290	82.984	61.831	1.00	73.34	O
ATOM	3535	N	THR	483	52.279	81.956	62.047	1.00	47.08	N
ATOM	3536	CA	THR	483	52.233	82.076	63.473	1.00	47.08	C
ATOM	3537	CB	THR	483	53.237	81.216	64.182	1.00	47.08	C
ATOM	3538	OG1	THR	483	54.555	81.593	63.810	1.00	47.08	O
ATOM	3539	CG2	THR	483	52.980	79.746	63.809	1.00	47.08	C
ATOM	3540	C	THR	483	52.568	83.497	63.777	1.00	47.08	C
ATOM	3541	O	THR	483	52.962	84.255	62.894	1.00	47.08	O
ATOM	3542	N	ILE	484	52.357	83.922	65.033	1.00	163.82	N
ATOM	3543	CA	ILE	484	52.709	85.263	65.376	1.00	163.82	C
ATOM	3544	CB	ILE	484	51.982	85.824	66.562	1.00	163.82	C
ATOM	3545	CG1	ILE	484	52.071	84.917	67.777	1.00	163.82	C
ATOM	3546	CG2	ILE	484	50.547	86.133	66.122	1.00	163.82	C
ATOM	3547	CD1	ILE	484	51.110	85.373	68.862	1.00	163.82	C
ATOM	3548	C	ILE	484	54.195	85.451	65.350	1.00	163.82	C
ATOM	3549	O	ILE	484	54.674	86.538	65.033	1.00	163.82	O
ATOM	3550	N	ALA	485	54.976	84.404	65.681	1.00	42.87	N
ATOM	3551	CA	ALA	485	56.406	84.543	65.650	1.00	42.87	C
ATOM	3552	CB	ALA	485	57.138	83.250	66.049	1.00	42.87	C
ATOM	3553	C	ALA	485	56.844	84.897	64.255	1.00	42.87	C
ATOM	3554	O	ALA	485	57.664	85.796	64.072	1.00	42.87	O
ATOM	3555	N	GLU	486	56.304	84.208	63.227	1.00	124.00	N
ATOM	3556	CA	GLU	486	56.657	84.511	61.864	1.00	124.00	C
ATOM	3557	CB	GLU	486	56.122	83.516	60.816	1.00	124.00	C
ATOM	3558	CG	GLU	486	57.108	82.400	60.447	1.00	124.00	C
ATOM	3559	CD	GLU	486	57.639	81.730	61.700	1.00	124.00	C
ATOM	3560	OE1	GLU	486	56.890	81.705	62.709	1.00	124.00	O
ATOM	3561	OE2	GLU	486	58.800	81.240	61.668	1.00	124.00	O
ATOM	3562	C	GLU	486	56.187	85.883	61.507	1.00	124.00	C
ATOM	3563	O	GLU	486	56.882	86.598	60.794	1.00	124.00	O
ATOM	3564	N	ASN	487	55.010	86.311	61.997	1.00	77.92	N
ATOM	3565	CA	ASN	487	54.539	87.621	61.639	1.00	77.92	C
ATOM	3566	CB	ASN	487	53.214	88.020	62.315	1.00	77.92	C
ATOM	3567	CG	ASN	487	52.055	87.552	61.452	1.00	77.92	C
ATOM	3568	OD1	ASN	487	51.631	88.262	60.540	1.00	77.92	O
ATOM	3569	ND2	ASN	487	51.526	86.333	61.737	1.00	77.92	N
ATOM	3570	C	ASN	487	55.551	88.632	62.068	1.00	77.92	C
ATOM	3571	O	ASN	487	55.804	89.607	61.362	1.00	77.92	O
ATOM	3572	N	ILE	488	56.122	88.455	63.268	1.00	131.94	N
ATOM	3573	CA	ILE	488	57.097	89.390	63.736	1.00	131.94	C
ATOM	3574	CB	ILE	488	57.318	89.299	65.213	1.00	131.94	C
ATOM	3575	CG1	ILE	488	57.692	90.687	65.738	1.00	131.94	C
ATOM	3576	CG2	ILE	488	58.389	88.235	65.495	1.00	131.94	C
ATOM	3577	CD1	ILE	488	57.391	90.861	67.220	1.00	131.94	C
ATOM	3578	C	ILE	488	58.380	89.230	62.957	1.00	131.94	C
ATOM	3579	O	ILE	488	59.073	90.204	62.669	1.00	131.94	O
ATOM	3580	N	ARG	489	58.715	87.977	62.585	1.00	167.23	N
ATOM	3581	CA	ARG	489	59.923	87.597	61.891	1.00	167.23	C
ATOM	3582	CB	ARG	489	60.031	86.071	61.721	1.00	167.23	C
ATOM	3583	CG	ARG	489	61.303	85.599	61.017	1.00	167.23	C
ATOM	3584	CD	ARG	489	61.524	84.089	61.132	1.00	167.23	C
ATOM	3585	NE	ARG	489	62.047	83.811	62.502	1.00	167.23	N
ATOM	3586	CZ	ARG	489	61.207	83.657	63.568	1.00	167.23	C
ATOM	3587	NH1	ARG	489	59.856	83.754	63.406	1.00	167.23	N
ATOM	3588	NH2	ARG	489	61.725	83.407	64.806	1.00	167.23	N
ATOM	3589	C	ARG	489	59.973	88.255	60.538	1.00	167.23	C
ATOM	3590	O	ARG	489	61.041	88.425	59.954	1.00	167.23	O
ATOM	3591	N	TYR	490	58.810	88.593	59.966	1.00	120.00	N
ATOM	3592	CA	TYR	490	58.763	89.297	58.715	1.00	120.00	C
ATOM	3593	CB	TYR	490	57.321	89.437	58.190	1.00	120.00	C
ATOM	3594	CG	TYR	490	56.943	88.141	57.530	1.00	120.00	C

ATOM	3595	CD1	TYR	490	57.219	86.927	58.113	1.00120.00	C
ATOM	3596	CD2	TYR	490	56.262	88.128	56.334	1.00120.00	C
ATOM	3597	CE1	TYR	490	56.862	85.739	57.517	1.00120.00	C
ATOM	3598	CE2	TYR	490	55.896	86.951	55.724	1.00120.00	C
ATOM	3599	CZ	TYR	490	56.200	85.749	56.315	1.00120.00	C
ATOM	3600	OH	TYR	490	55.827	84.538	55.695	1.00120.00	O
ATOM	3601	C	TYR	490	59.426	90.640	58.906	1.00120.00	C
ATOM	3602	O	TYR	490	59.934	91.225	57.949	1.00120.00	O
ATOM	3603	N	GLY	491	59.370	91.206	60.134	1.00 48.39	N
ATOM	3604	CA	GLY	491	60.048	92.444	60.417	1.00 48.39	C
ATOM	3605	C	GLY	491	61.533	92.244	60.261	1.00 48.39	C
ATOM	3606	O	GLY	491	62.231	93.130	59.768	1.00 48.39	O
ATOM	3607	N	ARG	492	62.064	91.101	60.749	1.00186.31	N
ATOM	3608	CA	ARG	492	63.448	90.727	60.585	1.00186.31	C
ATOM	3609	CB	ARG	492	64.396	91.283	61.658	1.00186.31	C
ATOM	3610	CG	ARG	492	64.929	92.683	61.385	1.00186.31	C
ATOM	3611	CD	ARG	492	65.749	93.235	62.550	1.00186.31	C
ATOM	3612	NE	ARG	492	66.701	92.168	62.961	1.00186.31	N
ATOM	3613	CZ	ARG	492	66.956	91.961	64.286	1.00186.31	C
ATOM	3614	NH1	ARG	492	66.331	92.726	65.228	1.00186.31	N
ATOM	3615	NH2	ARG	492	67.831	90.985	64.667	1.00186.31	N
ATOM	3616	C	ARG	492	63.521	89.242	60.758	1.00186.31	C
ATOM	3617	O	ARG	492	63.077	88.712	61.774	1.00186.31	O
ATOM	3618	N	GLU	493	64.120	88.533	59.783	1.00 77.18	N
ATOM	3619	CA	GLU	493	64.164	87.097	59.810	1.00 77.18	C
ATOM	3620	CB	GLU	493	64.616	86.474	58.476	1.00 77.18	C
ATOM	3621	CG	GLU	493	63.558	86.646	57.379	1.00 77.18	C
ATOM	3622	CD	GLU	493	64.002	85.908	56.123	1.00 77.18	C
ATOM	3623	OE1	GLU	493	64.330	84.697	56.233	1.00 77.18	O
ATOM	3624	OE2	GLU	493	64.013	86.545	55.036	1.00 77.18	O
ATOM	3625	C	GLU	493	65.050	86.601	60.934	1.00 77.18	C
ATOM	3626	O	GLU	493	64.795	85.541	61.502	1.00 77.18	O
ATOM	3627	N	ASN	494	66.113	87.358	61.279	1.00149.73	N
ATOM	3628	CA	ASN	494	67.152	87.012	62.225	1.00149.73	C
ATOM	3629	CB	ASN	494	68.235	88.099	62.310	1.00149.73	C
ATOM	3630	CG	ASN	494	68.780	88.370	60.921	1.00149.73	C
ATOM	3631	OD1	ASN	494	68.612	89.466	60.389	1.00149.73	O
ATOM	3632	ND2	ASN	494	69.452	87.354	60.316	1.00149.73	N
ATOM	3633	C	ASN	494	66.669	86.884	63.651	1.00149.73	C
ATOM	3634	O	ASN	494	67.187	86.063	64.406	1.00149.73	O
ATOM	3635	N	VAL	495	65.673	87.693	64.054	1.00 74.88	N
ATOM	3636	CA	VAL	495	65.249	87.904	65.421	1.00 74.88	C
ATOM	3637	CB	VAL	495	63.940	88.635	65.501	1.00 74.88	C
ATOM	3638	CG1	VAL	495	63.551	88.812	66.978	1.00 74.88	C
ATOM	3639	CG2	VAL	495	64.078	89.956	64.724	1.00 74.88	C
ATOM	3640	C	VAL	495	65.132	86.656	66.252	1.00 74.88	C
ATOM	3641	O	VAL	495	64.706	85.598	65.791	1.00 74.88	O
ATOM	3642	N	THR	496	65.539	86.785	67.540	1.00 42.47	N
ATOM	3643	CA	THR	496	65.496	85.732	68.520	1.00 42.47	C
ATOM	3644	CB	THR	496	66.601	85.818	69.533	1.00 42.47	C
ATOM	3645	OG1	THR	496	66.465	86.998	70.311	1.00 42.47	O
ATOM	3646	CG2	THR	496	67.948	85.839	68.790	1.00 42.47	C
ATOM	3647	C	THR	496	64.199	85.837	69.271	1.00 42.47	C
ATOM	3648	O	THR	496	63.528	86.867	69.245	1.00 42.47	O
ATOM	3649	N	MET	497	63.823	84.752	69.979	1.00163.65	N
ATOM	3650	CA	MET	497	62.588	84.691	70.712	1.00163.65	C
ATOM	3651	CB	MET	497	62.302	83.305	71.313	1.00163.65	C
ATOM	3652	CG	MET	497	61.953	82.257	70.254	1.00163.65	C
ATOM	3653	SD	MET	497	60.412	82.595	69.347	1.00163.65	S
ATOM	3654	CE	MET	497	59.301	82.020	70.662	1.00163.65	C
ATOM	3655	C	MET	497	62.601	85.685	71.829	1.00163.65	C
ATOM	3656	O	MET	497	61.572	86.280	72.146	1.00163.65	O
ATOM	3657	N	ASP	498	63.763	85.888	72.473	1.00 24.53	N
ATOM	3658	CA	ASP	498	63.817	86.813	73.568	1.00 24.53	C
ATOM	3659	CB	ASP	498	65.213	86.912	74.209	1.00 24.53	C
ATOM	3660	CG	ASP	498	65.478	85.631	74.989	1.00 24.53	C
ATOM	3661	OD1	ASP	498	64.524	84.822	75.144	1.00 24.53	O
ATOM	3662	OD2	ASP	498	66.637	85.449	75.448	1.00 24.53	O
ATOM	3663	C	ASP	498	63.466	88.170	73.046	1.00 24.53	C
ATOM	3664	O	ASP	498	62.760	88.933	73.703	1.00 24.53	O
ATOM	3665	N	GLU	499	63.948	88.489	71.831	1.00 77.22	N
ATOM	3666	CA	GLU	499	63.745	89.764	71.204	1.00 77.22	C
ATOM	3667	CB	GLU	499	64.424	89.832	69.825	1.00 77.22	C
ATOM	3668	CG	GLU	499	65.946	89.697	69.876	1.00 77.22	C

ATOM	3669	CD	GLU	499	66.556	91.085	69.844	1.00	77.22	C
ATOM	3670	OE1	GLU	499	66.354	91.786	68.817	1.00	77.22	O
ATOM	3671	OE2	GLU	499	67.232	91.462	70.838	1.00	77.22	O
ATOM	3672	C	GLU	499	62.279	89.966	70.966	1.00	77.22	C
ATOM	3673	O	GLU	499	61.754	91.069	71.120	1.00	77.22	O
ATOM	3674	N	ILE	500	61.581	88.890	70.564	1.00	40.35	N
ATOM	3675	CA	ILE	500	60.183	88.971	70.264	1.00	40.35	C
ATOM	3676	CB	ILE	500	59.636	87.668	69.755	1.00	40.35	C
ATOM	3677	CG1	ILE	500	60.329	87.287	68.435	1.00	40.35	C
ATOM	3678	CG2	ILE	500	58.107	87.798	69.641	1.00	40.35	C
ATOM	3679	CD1	ILE	500	60.074	85.846	67.998	1.00	40.35	C
ATOM	3680	C	ILE	500	59.427	89.334	71.505	1.00	40.35	C
ATOM	3681	O	ILE	500	58.528	90.173	71.473	1.00	40.35	O
ATOM	3682	N	GLU	501	59.775	88.714	72.646	1.00	82.48	N
ATOM	3683	CA	GLU	501	59.031	88.963	73.844	1.00	82.48	C
ATOM	3684	CB	GLU	501	59.453	88.066	75.021	1.00	82.48	C
ATOM	3685	CG	GLU	501	58.430	88.042	76.158	1.00	82.48	C
ATOM	3686	CD	GLU	501	58.833	86.940	77.128	1.00	82.48	C
ATOM	3687	OE1	GLU	501	59.833	86.232	76.836	1.00	82.48	O
ATOM	3688	OE2	GLU	501	58.145	86.790	78.173	1.00	82.48	O
ATOM	3689	C	GLU	501	59.166	90.402	74.255	1.00	82.48	C
ATOM	3690	O	GLU	501	58.180	91.024	74.648	1.00	82.48	O
ATOM	3691	N	LYS	502	60.375	90.995	74.194	1.00	188.60	N
ATOM	3692	CA	LYS	502	60.422	92.362	74.634	1.00	188.60	C
ATOM	3693	CB	LYS	502	61.814	92.975	74.908	1.00	188.60	C
ATOM	3694	CG	LYS	502	62.804	92.981	73.750	1.00	188.60	C
ATOM	3695	CD	LYS	502	63.362	91.598	73.459	1.00	188.60	C
ATOM	3696	CE	LYS	502	64.340	91.097	74.524	1.00	188.60	C
ATOM	3697	NZ	LYS	502	63.612	90.796	75.777	1.00	188.60	N
ATOM	3698	C	LYS	502	59.676	93.259	73.692	1.00	188.60	C
ATOM	3699	O	LYS	502	59.000	94.188	74.130	1.00	188.60	O
ATOM	3700	N	ALA	503	59.767	93.010	72.372	1.00	34.35	N
ATOM	3701	CA	ALA	503	59.123	93.861	71.410	1.00	34.35	C
ATOM	3702	CB	ALA	503	59.399	93.431	69.958	1.00	34.35	C
ATOM	3703	C	ALA	503	57.639	93.818	71.621	1.00	34.35	C
ATOM	3704	O	ALA	503	56.965	94.843	71.517	1.00	34.35	O
ATOM	3705	N	VAL	504	57.079	92.623	71.901	1.00	115.07	N
ATOM	3706	CA	VAL	504	55.662	92.523	72.110	1.00	115.07	C
ATOM	3707	CB	VAL	504	55.127	91.117	72.234	1.00	115.07	C
ATOM	3708	CG1	VAL	504	55.271	90.404	70.885	1.00	115.07	C
ATOM	3709	CG2	VAL	504	55.846	90.387	73.370	1.00	115.07	C
ATOM	3710	C	VAL	504	55.282	93.278	73.348	1.00	115.07	C
ATOM	3711	O	VAL	504	54.238	93.926	73.388	1.00	115.07	O
ATOM	3712	N	LYS	505	56.117	93.220	74.401	1.00	76.23	N
ATOM	3713	CA	LYS	505	55.769	93.885	75.624	1.00	76.23	C
ATOM	3714	CB	LYS	505	56.739	93.589	76.780	1.00	76.23	C
ATOM	3715	CG	LYS	505	56.573	92.160	77.307	1.00	76.23	C
ATOM	3716	CD	LYS	505	57.653	91.714	78.293	1.00	76.23	C
ATOM	3717	CE	LYS	505	57.452	90.283	78.797	1.00	76.23	C
ATOM	3718	NZ	LYS	505	56.163	90.172	79.515	1.00	76.23	N
ATOM	3719	C	LYS	505	55.681	95.368	75.403	1.00	76.23	C
ATOM	3720	O	LYS	505	54.802	96.029	75.955	1.00	76.23	O
ATOM	3721	N	GLU	506	56.582	95.943	74.586	1.00	95.06	N
ATOM	3722	CA	GLU	506	56.551	97.363	74.359	1.00	95.06	C
ATOM	3723	CB	GLU	506	57.781	97.894	73.596	1.00	95.06	C
ATOM	3724	CG	GLU	506	58.017	97.275	72.220	1.00	95.06	C
ATOM	3725	CD	GLU	506	59.272	97.918	71.647	1.00	95.06	C
ATOM	3726	OE1	GLU	506	59.737	98.932	72.232	1.00	95.06	O
ATOM	3727	OE2	GLU	506	59.784	97.403	70.618	1.00	95.06	O
ATOM	3728	C	GLU	506	55.287	97.742	73.631	1.00	95.06	C
ATOM	3729	O	GLU	506	54.765	98.840	73.806	1.00	95.06	O
ATOM	3730	N	ALA	507	54.794	96.836	72.769	1.00	90.11	N
ATOM	3731	CA	ALA	507	53.614	96.936	71.946	1.00	90.11	C
ATOM	3732	CB	ALA	507	53.520	95.814	70.895	1.00	90.11	C
ATOM	3733	C	ALA	507	52.339	96.922	72.753	1.00	90.11	C
ATOM	3734	O	ALA	507	51.282	97.247	72.218	1.00	90.11	O
ATOM	3735	N	ASN	508	52.372	96.437	74.012	1.00	92.98	N
ATOM	3736	CA	ASN	508	51.199	96.323	74.849	1.00	92.98	C
ATOM	3737	CB	ASN	508	50.320	97.588	74.860	1.00	92.98	C
ATOM	3738	CG	ASN	508	51.026	98.665	75.671	1.00	92.98	C
ATOM	3739	OD1	ASN	508	51.909	98.377	76.477	1.00	92.98	O
ATOM	3740	ND2	ASN	508	50.615	99.945	75.463	1.00	92.98	N
ATOM	3741	C	ASN	508	50.349	95.187	74.360	1.00	92.98	C
ATOM	3742	O	ASN	508	49.143	95.154	74.597	1.00	92.98	O

ATOM	3743	N	ALA	509	50.963	94.303	73.552	1.00102.56	N
ATOM	3744	CA	ALA	509	50.473	93.060	73.012	1.00102.56	C
ATOM	3745	CB	ALA	509	51.197	92.656	71.715	1.00102.56	C
ATOM	3746	C	ALA	509	50.560	91.868	73.927	1.00102.56	C
ATOM	3747	O	ALA	509	49.818	90.911	73.745	1.00102.56	O
ATOM	3748	N	TYR	510	51.528	91.834	74.862	1.00 93.40	N
ATOM	3749	CA	TYR	510	51.871	90.609	75.546	1.00 93.40	C
ATOM	3750	CB	TYR	510	53.145	90.739	76.397	1.00 93.40	C
ATOM	3751	CG	TYR	510	53.561	89.359	76.779	1.00 93.40	C
ATOM	3752	CD1	TYR	510	54.364	88.625	75.938	1.00 93.40	C
ATOM	3753	CD2	TYR	510	53.147	88.787	77.956	1.00 93.40	C
ATOM	3754	CE1	TYR	510	54.758	87.351	76.270	1.00 93.40	C
ATOM	3755	CE2	TYR	510	53.538	87.513	78.294	1.00 93.40	C
ATOM	3756	CZ	TYR	510	54.346	86.791	77.452	1.00 93.40	C
ATOM	3757	OH	TYR	510	54.749	85.484	77.797	1.00 93.40	O
ATOM	3758	C	TYR	510	50.782	90.014	76.399	1.00 93.40	C
ATOM	3759	O	TYR	510	50.554	88.806	76.348	1.00 93.40	O
ATOM	3760	N	ASP	511	50.056	90.814	77.196	1.00 48.10	N
ATOM	3761	CA	ASP	511	49.129	90.213	78.117	1.00 48.10	C
ATOM	3762	CB	ASP	511	48.399	91.245	78.999	1.00 48.10	C
ATOM	3763	CG	ASP	511	47.560	92.158	78.115	1.00 48.10	C
ATOM	3764	OD1	ASP	511	47.985	92.424	76.959	1.00 48.10	O
ATOM	3765	OD2	ASP	511	46.478	92.602	78.586	1.00 48.10	O
ATOM	3766	C	ASP	511	48.089	89.410	77.396	1.00 48.10	C
ATOM	3767	O	ASP	511	47.767	88.303	77.824	1.00 48.10	O
ATOM	3768	N	PHE	512	47.530	89.930	76.287	1.00 93.95	N
ATOM	3769	CA	PHE	512	46.472	89.225	75.620	1.00 93.95	C
ATOM	3770	CB	PHE	512	45.682	90.046	74.571	1.00 93.95	C
ATOM	3771	CG	PHE	512	46.429	90.241	73.292	1.00 93.95	C
ATOM	3772	CD1	PHE	512	46.332	89.302	72.288	1.00 93.95	C
ATOM	3773	CD2	PHE	512	47.197	91.361	73.076	1.00 93.95	C
ATOM	3774	CE1	PHE	512	47.001	89.465	71.097	1.00 93.95	C
ATOM	3775	CE2	PHE	512	47.869	91.530	71.887	1.00 93.95	C
ATOM	3776	CZ	PHE	512	47.775	90.583	70.894	1.00 93.95	C
ATOM	3777	C	PHE	512	47.003	87.991	74.961	1.00 93.95	C
ATOM	3778	O	PHE	512	46.303	86.985	74.879	1.00 93.95	O
ATOM	3779	N	ILE	513	48.250	88.040	74.458	1.00116.24	N
ATOM	3780	CA	ILE	513	48.827	86.949	73.724	1.00116.24	C
ATOM	3781	CB	ILE	513	50.183	87.317	73.162	1.00116.24	C
ATOM	3782	CG1	ILE	513	50.534	86.489	71.925	1.00116.24	C
ATOM	3783	CG2	ILE	513	51.253	87.186	74.255	1.00116.24	C
ATOM	3784	CD1	ILE	513	51.726	87.086	71.174	1.00116.24	C
ATOM	3785	C	ILE	513	48.930	85.752	74.620	1.00116.24	C
ATOM	3786	O	ILE	513	48.653	84.628	74.206	1.00116.24	O
ATOM	3787	N	MET	514	49.308	85.965	75.889	1.00164.76	N
ATOM	3788	CA	MET	514	49.502	84.882	76.803	1.00164.76	C
ATOM	3789	CB	MET	514	50.160	85.344	78.106	1.00164.76	C
ATOM	3790	CG	MET	514	50.976	84.227	78.742	1.00164.76	C
ATOM	3791	SD	MET	514	52.334	84.811	79.792	1.00164.76	S
ATOM	3792	CE	MET	514	53.099	83.173	79.967	1.00164.76	C
ATOM	3793	C	MET	514	48.185	84.210	77.055	1.00164.76	C
ATOM	3794	O	MET	514	48.133	83.018	77.353	1.00164.76	O
ATOM	3795	N	LYS	515	47.083	84.977	76.984	1.00 88.66	N
ATOM	3796	CA	LYS	515	45.757	84.453	77.165	1.00 88.66	C
ATOM	3797	CB	LYS	515	44.669	85.539	77.202	1.00 88.66	C
ATOM	3798	CG	LYS	515	44.497	86.191	78.575	1.00 88.66	C
ATOM	3799	CD	LYS	515	45.717	86.970	79.063	1.00 88.66	C
ATOM	3800	CE	LYS	515	45.507	87.627	80.428	1.00 88.66	C
ATOM	3801	NZ	LYS	515	46.737	88.335	80.846	1.00 88.66	N
ATOM	3802	C	LYS	515	45.399	83.497	76.062	1.00 88.66	C
ATOM	3803	O	LYS	515	44.657	82.545	76.296	1.00 88.66	O
ATOM	3804	N	LEU	516	45.913	83.724	74.835	1.00125.12	N
ATOM	3805	CA	LEU	516	45.564	82.953	73.672	1.00125.12	C
ATOM	3806	CB	LEU	516	46.259	83.558	72.433	1.00125.12	C
ATOM	3807	CG	LEU	516	45.722	83.173	71.044	1.00125.12	C
ATOM	3808	CD1	LEU	516	46.527	83.905	69.955	1.00125.12	C
ATOM	3809	CD2	LEU	516	45.673	81.658	70.820	1.00125.12	C
ATOM	3810	C	LEU	516	45.977	81.522	73.923	1.00125.12	C
ATOM	3811	O	LEU	516	46.891	81.266	74.705	1.00125.12	O
ATOM	3812	N	PRO	517	45.285	80.560	73.351	1.00104.38	N
ATOM	3813	CA	PRO	517	45.606	79.185	73.658	1.00104.38	C
ATOM	3814	CD	PRO	517	43.869	80.724	73.060	1.00104.38	C
ATOM	3815	CB	PRO	517	44.455	78.358	73.092	1.00104.38	C
ATOM	3816	CG	PRO	517	43.254	79.317	73.178	1.00104.38	C

ATOM	3817	C	PRO	517	46.964	78.681	73.279	1.00104.38	C
ATOM	3818	O	PRO	517	47.575	77.961	74.069	1.00104.38	O
ATOM	3819	N	HIS	518	47.418	79.010	72.062	1.00110.07	N
ATOM	3820	CA	HIS	518	48.665	78.605	71.482	1.00110.07	C
ATOM	3821	ND1	HIS	518	47.873	76.189	69.429	1.00110.07	N
ATOM	3822	CG	HIS	518	47.612	77.539	69.496	1.00110.07	C
ATOM	3823	CB	HIS	518	48.609	78.561	69.950	1.00110.07	C
ATOM	3824	NE2	HIS	518	45.756	76.459	68.806	1.00110.07	N
ATOM	3825	CD2	HIS	518	46.315	77.687	69.112	1.00110.07	C
ATOM	3826	CE1	HIS	518	46.729	75.591	69.011	1.00110.07	C
ATOM	3827	C	HIS	518	49.820	79.457	71.916	1.00110.07	C
ATOM	3828	O	HIS	518	50.953	79.167	71.537	1.00110.07	O
ATOM	3829	N	LYS	519	49.557	80.597	72.588	1.00203.52	N
ATOM	3830	CA	LYS	519	50.584	81.508	73.025	1.00203.52	C
ATOM	3831	CB	LYS	519	51.654	80.941	74.004	1.00203.52	C
ATOM	3832	CG	LYS	519	52.701	79.959	73.467	1.00203.52	C
ATOM	3833	CD	LYS	519	53.836	79.671	74.453	1.00203.52	C
ATOM	3834	CE	LYS	519	54.664	80.905	74.816	1.00203.52	C
ATOM	3835	NZ	LYS	519	53.915	81.750	75.774	1.00203.52	N
ATOM	3836	C	LYS	519	51.173	82.143	71.798	1.00203.52	C
ATOM	3837	O	LYS	519	50.440	82.753	71.023	1.00203.52	O
ATOM	3838	N	PHE	520	52.510	82.087	71.629	1.00 95.13	N
ATOM	3839	CA	PHE	520	53.208	82.636	70.496	1.00 95.13	C
ATOM	3840	CB	PHE	520	54.718	82.795	70.758	1.00 95.13	C
ATOM	3841	CG	PHE	520	54.868	83.949	71.699	1.00 95.13	C
ATOM	3842	CD1	PHE	520	54.996	85.229	71.207	1.00 95.13	C
ATOM	3843	CD2	PHE	520	54.869	83.765	73.065	1.00 95.13	C
ATOM	3844	CE1	PHE	520	55.132	86.301	72.059	1.00 95.13	C
ATOM	3845	CE2	PHE	520	55.004	84.835	73.924	1.00 95.13	C
ATOM	3846	CZ	PHE	520	55.138	86.107	73.420	1.00 95.13	C
ATOM	3847	C	PHE	520	52.986	81.834	69.235	1.00 95.13	C
ATOM	3848	O	PHE	520	53.000	82.378	68.134	1.00 95.13	O
ATOM	3849	N	ASP	521	52.827	80.505	69.356	1.00 76.67	N
ATOM	3850	CA	ASP	521	52.645	79.584	68.260	1.00 76.67	C
ATOM	3851	CB	ASP	521	52.776	78.116	68.697	1.00 76.67	C
ATOM	3852	CG	ASP	521	54.246	77.856	68.996	1.00 76.67	C
ATOM	3853	OD1	ASP	521	55.090	78.142	68.105	1.00 76.67	O
ATOM	3854	OD2	ASP	521	54.544	77.383	70.125	1.00 76.67	O
ATOM	3855	C	ASP	521	51.299	79.747	67.607	1.00 76.67	C
ATOM	3856	O	ASP	521	51.052	79.170	66.551	1.00 76.67	O
ATOM	3857	N	THR	522	50.367	80.475	68.244	1.00 66.57	N
ATOM	3858	CA	THR	522	49.016	80.605	67.764	1.00 66.57	C
ATOM	3859	CB	THR	522	48.246	81.635	68.529	1.00 66.57	C
ATOM	3860	OG1	THR	522	48.281	81.327	69.914	1.00 66.57	O
ATOM	3861	CG2	THR	522	4				

ATOM	3891	O	GLU	526	41.276	82.691	58.453	1.00	83.38	
ATOM	3892	N	ARG	527	43.415	82.054	58.085	1.00	124.62	
ATOM	3893	CA	ARG	527	43.235	80.688	58.487	1.00	124.62	
ATOM	3894	CB	ARG	527	44.470	79.841	58.139	1.00	124.62	
ATOM	3895	CG	ARG	527	44.856	79.976	56.663	1.00	124.62	
ATOM	3896	CD	ARG	527	43.951	79.206	55.698	1.00	124.62	
ATOM	3897	NE	ARG	527	44.435	77.799	55.648	1.00	124.62	
ATOM	3898	CZ	ARG	527	45.335	77.433	54.689	1.00	124.62	
ATOM	3899	NH1	ARG	527	45.773	78.351	53.779	1.00	124.62	
ATOM	3900	NH2	ARG	527	45.796	76.149	54.638	1.00	124.62	
ATOM	3901	C	ARG	527	42.946	80.518	59.948	1.00	124.62	
ATOM	3902	O	ARG	527	42.071	79.737	60.317	1.00	124.62	
ATOM	3903	N	GLY	528	43.656	81.253	60.825	1.00	33.43	
ATOM	3904	CA	GLY	528	43.542	80.995	62.236	1.00	33.43	
ATOM	3905	C	GLY	528	42.497	81.844	62.897	1.00	33.43	
ATOM	3906	O	GLY	528	41.562	82.333	62.266	1.00	33.43	
ATOM	3907	N	ALA	529	42.664	82.028	64.228	1.00	67.31	
ATOM	3908	CA	ALA	529	41.744	82.744	65.069	1.00	67.31	
ATOM	3909	CB	ALA	529	42.147	82.756	66.554	1.00	67.31	
ATOM	3910	C	ALA	529	41.664	84.169	64.619	1.00	67.31	
ATOM	3911	O	ALA	529	42.603	84.716	64.048	1.00	67.31	
ATOM	3912	N	GLN	530	40.513	84.796	64.927	1.00	178.38	
ATOM	3913	CA	GLN	530	40.037	86.071	64.456	1.00	178.38	
ATOM	3914	CB	GLN	530	38.619	86.340	64.982	1.00	178.38	
ATOM	3915	CG	GLN	530	37.612	85.264	64.568	1.00	178.38	
ATOM	3916	CD	GLN	530	36.340	85.473	65.378	1.00	178.38	
ATOM	3917	OE1	GLN	530	36.053	86.577	65.837	1.00	178.38	
ATOM	3918	NE2	GLN	530	35.558	84.376	65.569	1.00	178.38	
ATOM	3919	C	GLN	530	40.853	87.294	64.793	1.00	178.38	
ATOM	3920	O	GLN	530	41.088	88.087	63.894	1.00	178.38	
ATOM	3921	N	LEU	531	41.312	87.515	66.042	1.00	215.48	
ATOM	3922	CA	LEU	531	42.013	88.726	66.425	1.00	215.48	
ATOM	3923	CB	LEU	531	43.370	88.891	65.704	1.00	215.48	
ATOM	3924	CG	LEU	531	44.514	87.965	66.184	1.00	215.48	
ATOM	3925	CD1	LEU	531	45.196	88.503	67.449	1.00	215.48	
ATOM	3926	CD2	LEU	531	44.034	86.520	66.385	1.00	215.48	
ATOM	3927	C	LEU	531	41.201	89.984	66.196	1.00	215.48	
ATOM	3928	O	LEU	531	40.712	90.265	65.103	1.00	215.48	
ATOM	3929	N	SER	532	41.066	90.817	67.250	1.00	43.87	
ATOM	3930	CA	SER	532	40.329	92.051	67.144	1.00	43.87	
ATOM	3931	CB	SER	532	39.984	92.673	68.508	1.00	43.87	
ATOM	3932	OG	SER	532	41.175	93.017	69.201	1.00	43.87	
ATOM	3933	C	SER	532	41.178	93.033	66.39			

ATOM	3965	CD	GLN	537	47.843	99.553	63.490	1.00	56.60	C
ATOM	3966	OE1	GLN	537	48.751	98.961	62.910	1.00	56.60	O
ATOM	3967	NE2	GLN	537	46.965	100.362	62.837	1.00	56.60	N
ATOM	3968	C	GLN	537	48.743	96.794	65.901	1.00	56.60	C
ATOM	3969	O	GLN	537	49.841	97.213	65.541	1.00	56.60	O
ATOM	3970	N	ARG	538	48.540	96.314	67.138	1.00	197.62	N
ATOM	3971	CA	ARG	538	49.639	96.260	68.052	1.00	197.62	C
ATOM	3972	CB	ARG	538	49.234	96.161	69.535	1.00	197.62	C
ATOM	3973	CG	ARG	538	48.199	95.107	69.906	1.00	197.62	C
ATOM	3974	CD	ARG	538	47.634	95.380	71.303	1.00	197.62	C
ATOM	3975	NE	ARG	538	46.399	94.569	71.480	1.00	197.62	N
ATOM	3976	CZ	ARG	538	45.678	94.692	72.632	1.00	197.62	C
ATOM	3977	NH1	ARG	538	46.106	95.532	73.619	1.00	197.62	N
ATOM	3978	NH2	ARG	538	44.529	93.974	72.798	1.00	197.62	N
ATOM	3979	C	ARG	538	50.676	95.266	67.616	1.00	197.62	C
ATOM	3980	O	ARG	538	51.857	95.431	67.913	1.00	197.62	O
ATOM	3981	N	ILE	539	50.284	94.181	66.928	1.00	119.27	N
ATOM	3982	CA	ILE	539	51.287	93.274	66.443	1.00	119.27	C
ATOM	3983	CB	ILE	539	50.730	91.984	65.919	1.00	119.27	C
ATOM	3984	CG1	ILE	539	51.776	90.867	66.027	1.00	119.27	C
ATOM	3985	CG2	ILE	539	50.268	92.212	64.478	1.00	119.27	C
ATOM	3986	CD1	ILE	539	51.171	89.472	65.869	1.00	119.27	C
ATOM	3987	C	ILE	539	52.085	93.975	65.370	1.00	119.27	C
ATOM	3988	O	ILE	539	53.300	93.808	65.269	1.00	119.27	O
ATOM	3989	N	ALA	540	51.411	94.795	64.537	1.00	53.77	N
ATOM	3990	CA	ALA	540	52.046	95.503	63.456	1.00	53.77	C
ATOM	3991	CB	ALA	540	51.065	96.390	62.671	1.00	53.77	C
ATOM	3992	C	ALA	540	53.103	96.394	64.028	1.00	53.77	C
ATOM	3993	O	ALA	540	54.153	96.588	63.415	1.00	53.77	O
ATOM	3994	N	ILE	541	52.845	97.003	65.203	1.00	139.12	N
ATOM	3995	CA	ILE	541	53.870	97.829	65.771	1.00	139.12	C
ATOM	3996	CB	ILE	541	53.457	98.709	66.926	1.00	139.12	C
ATOM	3997	CG1	ILE	541	52.942	97.928	68.134	1.00	139.12	C
ATOM	3998	CG2	ILE	541	52.465	99.744	66.391	1.00	139.12	C
ATOM	3999	CD1	ILE	541	52.690	98.815	69.353	1.00	139.12	C
ATOM	4000	C	ILE	541	55.055	96.988	66.146	1.00	139.12	C
ATOM	4001	O	ILE	541	56.197	97.395	65.943	1.00	139.12	O
ATOM	4002	N	ALA	542	54.823	95.772	66.674	1.00	52.45	N
ATOM	4003	CA	ALA	542	55.899	94.923	67.108	1.00	52.45	C
ATOM	4004	CB	ALA	542	55.411	93.580	67.682	1.00	52.45	C
ATOM	4005	C	ALA	542	56.811	94.618	65.954	1.00	52.45	C
ATOM	4006	O	ALA	542	58.020	94.485	66.138	1.00	52.45	O
ATOM	4007	N	ARG	543	56.268	94.439	64.734	1.00	167.31	N
ATOM	4008	CA	ARG	543	57.157	94.158	63.642	1.00	167.31	C
ATOM	4009	CB	ARG	543	56.456	93.680	62.359	1.00	167.31	C
ATOM	4010	CG	ARG	543	55.386	94.604	61.795	1.00	167.31	C
ATOM	4011	CD	ARG	543	54.640	93.953	60.630	1.00	167.31	C
ATOM	4012	NE	ARG	543	53.544	94.869	60.219	1.00	167.31	N
ATOM	4013	CZ	ARG	543	52.448	94.358	59.588	1.00	167.31	C
ATOM	4014	NH1	ARG	543	52.370	93.019	59.335	1.00	167.31	N
ATOM	4015	NH2	ARG	543	51.430	95.189	59.219	1.00	167.31	N
ATOM	4016	C	ARG	543	58.046	95.336	63.376	1.00	167.31	C
ATOM	4017	O	ARG	543	59.239	95.168	63.131	1.00	167.31	O
ATOM	4018	N	ALA	544	57.501	96.566	63.425	1.00	41.50	N
ATOM	4019	CA	ALA	544	58.307	97.732	63.188	1.00	41.50	C
ATOM	4020	CB	ALA	544	57.484	99.031	63.171	1.00	41.50	C
ATOM	4021	C	ALA	544	59.328	97.860	64.281	1.00	41.50	C
ATOM	4022	O	ALA	544	60.485	98.192	64.031	1.00	41.50	O
ATOM	4023	N	LEU	545	58.919	97.576	65.530	1.00	66.33	N
ATOM	4024	CA	LEU	545	59.760	97.748	66.681	1.00	66.33	C
ATOM	4025	CB	LEU	545	59.000	97.461	67.988	1.00	66.33	C
ATOM	4026	CG	LEU	545	57.827	98.439	68.214	1.00	66.33	C
ATOM	4027	CD1	LEU	545	57.077	98.140	69.522	1.00	66.33	C
ATOM	4028	CD2	LEU	545	58.296	99.901	68.122	1.00	66.33	C
ATOM	4029	C	LEU	545	60.958	96.842	66.595	1.00	66.33	C
ATOM	4030	O	LEU	545	62.045	97.211	67.038	1.00	66.33	O
ATOM	4031	N	VAL	546	60.797	95.624	66.041	1.00	108.61	N
ATOM	4032	CA	VAL	546	61.897	94.699	65.950	1.00	108.61	C
ATOM	4033	CB	VAL	546	61.504	93.351	65.406	1.00	108.61	C
ATOM	4034	CG1	VAL	546	61.293	93.453	63.887	1.00	108.61	C
ATOM	4035	CG2	VAL	546	62.570	92.325	65.825	1.00	108.61	C
ATOM	4036	C	VAL	546	62.961	95.279	65.063	1.00	108.61	C
ATOM	4037	O	VAL	546	64.155	95.096	65.297	1.00	108.61	O
ATOM	4038	N	ARG	547	62.549	96.004	64.011	1.00	88.98	N

ATOM	4039	CA	ARG	547	63.453	96.605	63.069	1.00	88.98	C
ATOM	4040	CB	ARG	547	62.729	97.295	61.904	1.00	88.98	C
ATOM	4041	CG	ARG	547	61.924	96.315	61.056	1.00	88.98	C
ATOM	4042	CD	ARG	547	61.188	96.950	59.878	1.00	88.98	C
ATOM	4043	NE	ARG	547	60.479	95.834	59.198	1.00	88.98	N
ATOM	4044	CZ	ARG	547	61.107	95.106	58.232	1.00	88.98	C
ATOM	4045	NH1	ARG	547	62.320	95.499	57.741	1.00	88.98	N
ATOM	4046	NH2	ARG	547	60.522	93.959	57.779	1.00	88.98	N
ATOM	4047	C	ARG	547	64.286	97.649	63.759	1.00	88.98	C
ATOM	4048	O	ARG	547	65.399	97.940	63.325	1.00	88.98	O
ATOM	4049	N	ASN	548	63.758	98.236	64.852	1.00	159.46	N
ATOM	4050	CA	ASN	548	64.322	99.365	65.558	1.00	159.46	C
ATOM	4051	CB	ASN	548	65.472	99.062	66.555	1.00	159.46	C
ATOM	4052	CG	ASN	548	66.777	98.667	65.882	1.00	159.46	C
ATOM	4053	OD1	ASN	548	67.640	99.513	65.655	1.00	159.46	O
ATOM	4054	ND2	ASN	548	66.950	97.349	65.595	1.00	159.46	N
ATOM	4055	C	ASN	548	64.686	100.465	64.593	1.00	159.46	C
ATOM	4056	O	ASN	548	65.858	100.731	64.332	1.00	159.46	O
ATOM	4057	N	PRO	549	63.691	101.111	64.020	1.00	194.48	N
ATOM	4058	CA	PRO	549	63.930	102.154	63.055	1.00	194.48	C
ATOM	4059	CD	PRO	549	62.354	100.550	63.875	1.00	194.48	C
ATOM	4060	CB	PRO	549	62.631	102.328	62.271	1.00	194.48	C
ATOM	4061	CG	PRO	549	61.854	101.031	62.507	1.00	194.48	C
ATOM	4062	C	PRO	549	64.294	103.466	63.679	1.00	194.48	C
ATOM	4063	O	PRO	549	63.947	103.715	64.832	1.00	194.48	O
ATOM	4064	N	LYS	550	65.032	104.302	62.929	1.00	118.77	N
ATOM	4065	CA	LYS	550	65.343	105.655	63.291	1.00	118.77	C
ATOM	4066	CB	LYS	550	66.509	106.241	62.476	1.00	118.77	C
ATOM	4067	CG	LYS	550	67.881	105.702	62.887	1.00	118.77	C
ATOM	4068	CD	LYS	550	68.108	104.223	62.571	1.00	118.77	C
ATOM	4069	CE	LYS	550	69.492	103.728	62.997	1.00	118.77	C
ATOM	4070	NZ	LYS	550	69.648	102.294	62.665	1.00	118.77	N
ATOM	4071	C	LYS	550	64.146	106.530	63.060	1.00	118.77	C
ATOM	4072	O	LYS	550	63.996	107.565	63.713	1.00	118.77	O
ATOM	4073	N	ILE	551	63.300	106.175	62.064	1.00	152.68	N
ATOM	4074	CA	ILE	551	62.146	106.984	61.767	1.00	152.68	C
ATOM	4075	CB	ILE	551	62.249	107.784	60.500	1.00	152.68	C
ATOM	4076	CG1	ILE	551	62.675	106.910	59.320	1.00	152.68	C
ATOM	4077	CG2	ILE	551	63.138	108.999	60.754	1.00	152.68	C
ATOM	4078	CD1	ILE	551	62.643	107.650	57.985	1.00	152.68	C
ATOM	4079	C	ILE	551	60.915	106.140	61.747	1.00	152.68	C
ATOM	4080	O	ILE	551	60.970	104.946	61.463	1.00	152.68	O
ATOM	4081	N	LEU	552	59.763	106.757	62.098	1.00	81.36	N
ATOM	4082	CA	LEU	552	58.535	106.021	62.202	1.00	81.36	C
ATOM	4083	CB	LEU	552	58.067	105.904	63.664	1.00	81.36	C
ATOM	4084	CG	LEU	552	56.854	104.987	63.890	1.00	81.36	C
ATOM	4085	CD1	LEU	552	57.204	103.522	63.579	1.00	81.36	C
ATOM	4086	CD2	LEU	552	56.275	105.174	65.303	1.00	81.36	C
ATOM	4087	C	LEU	552	57.462	106.739	61.429	1.00	81.36	C
ATOM	4088	O	LEU	552	57.272	107.945	61.599	1.00	81.36	O
ATOM	4089	N	LEU	553	56.733	106.006	60.546	1.00	141.58	N
ATOM	4090	CA	LEU	553	55.649	106.618	59.816	1.00	141.58	C
ATOM	4091	CB	LEU	553	55.665	106.546	58.269	1.00	141.58	C
ATOM	4092	CG	LEU	553	56.915	107.046	57.514	1.00	141.58	C
ATOM	4093	CD1	LEU	553	57.603	108.220	58.227	1.00	141.58	C
ATOM	4094	CD2	LEU	553	57.807	105.899	57.027	1.00	141.58	C
ATOM	4095	C	LEU	553	54.363	105.934	60.182	1.00	141.58	C
ATOM	4096	O	LEU	553	54.293	104.706	60.233	1.00	141.58	O
ATOM	4097	N	LEU	554	53.302	106.731	60.442	1.00	101.95	N
ATOM	4098	CA	LEU	554	52.013	106.181	60.765	1.00	101.95	C
ATOM	4099	CB	LEU	554	51.529	106.545	62.180	1.00	101.95	C
ATOM	4100	CG	LEU	554	52.434	106.015	63.308	1.00	101.95	C
ATOM	4101	CD1	LEU	554	53.818	106.682	63.276	1.00	101.95	C
ATOM	4102	CD2	LEU	554	51.747	106.135	64.677	1.00	101.95	C
ATOM	4103	C	LEU	554	51.001	106.744	59.804	1.00	101.95	C
ATOM	4104	O	LEU	554	50.648	107.921	59.880	1.00	101.95	O
ATOM	4105	N	ASP	555	50.487	105.905	58.879	1.00	107.97	N
ATOM	4106	CA	ASP	555	49.495	106.353	57.936	1.00	107.97	C
ATOM	4107	CB	ASP	555	49.520	105.635	56.574	1.00	107.97	C
ATOM	4108	CG	ASP	555	50.508	106.300	55.641	1.00	107.97	C
ATOM	4109	OD1	ASP	555	50.478	107.555	55.559	1.00	107.97	O
ATOM	4110	OD2	ASP	555	51.294	105.564	54.987	1.00	107.97	O
ATOM	4111	C	ASP	555	48.140	106.033	58.479	1.00	107.97	C
ATOM	4112	O	ASP	555	47.652	104.918	58.308	1.00	107.97	O

ATOM	4113	N	GLU	556	47.482	107.019	59.114	1.00	79.08	N
ATOM	4114	CA	GLU	556	46.149	106.841	59.627	1.00	79.08	C
ATOM	4115	CB	GLU	556	45.083	106.741	58.524	1.00	79.08	C
ATOM	4116	CG	GLU	556	44.939	108.019	57.699	1.00	79.08	C
ATOM	4117	CD	GLU	556	43.835	107.789	56.679	1.00	79.08	C
ATOM	4118	OE1	GLU	556	42.694	107.472	57.110	1.00	79.08	O
ATOM	4119	OE2	GLU	556	44.116	107.923	55.458	1.00	79.08	O
ATOM	4120	C	GLU	556	46.072	105.589	60.451	1.00	79.08	C
ATOM	4121	O	GLU	556	45.176	104.767	60.263	1.00	79.08	O
ATOM	4122	N	ALA	557	46.969	105.453	61.444	1.00	73.89	N
ATOM	4123	CA	ALA	557	47.111	104.242	62.210	1.00	73.89	C
ATOM	4124	CB	ALA	557	48.242	104.335	63.249	1.00	73.89	C
ATOM	4125	C	ALA	557	45.855	103.855	62.959	1.00	73.89	C
ATOM	4126	O	ALA	557	45.598	102.671	63.170	1.00	73.89	O
ATOM	4127	N	THR	558	45.131	104.847	63.501	1.00	133.51	N
ATOM	4128	CA	THR	558	43.951	104.733	64.330	1.00	133.51	C
ATOM	4129	CB	THR	558	43.978	105.796	65.391	1.00	133.51	C
ATOM	4130	OG1	THR	558	45.247	105.773	66.028	1.00	133.51	O
ATOM	4131	CG2	THR	558	42.918	105.483	66.460	1.00	133.51	C
ATOM	4132	C	THR	558	42.613	104.766	63.603	1.00	133.51	C
ATOM	4133	O	THR	558	41.570	104.649	64.242	1.00	133.51	O
ATOM	4134	N	SER	559	42.558	105.018	62.282	1.00	64.60	N
ATOM	4135	CA	SER	559	41.295	105.303	61.626	1.00	64.60	C
ATOM	4136	CB	SER	559	41.444	105.411	60.098	1.00	64.60	C
ATOM	4137	OG	SER	559	40.187	105.689	59.501	1.00	64.60	O
ATOM	4138	C	SER	559	40.197	104.297	61.893	1.00	64.60	C
ATOM	4139	O	SER	559	39.122	104.668	62.364	1.00	64.60	O
ATOM	4140	N	ALA	560	40.426	103.007	61.602	1.00	58.24	N
ATOM	4141	CA	ALA	560	39.430	101.965	61.690	1.00	58.24	C
ATOM	4142	CB	ALA	560	39.936	100.624	61.132	1.00	58.24	C
ATOM	4143	C	ALA	560	38.953	101.705	63.094	1.00	58.24	C
ATOM	4144	O	ALA	560	37.804	101.317	63.291	1.00	58.24	O
ATOM	4145	N	LEU	561	39.825	101.864	64.106	1.00	64.34	N
ATOM	4146	CA	LEU	561	39.547	101.478	65.469	1.00	64.34	C
ATOM	4147	CB	LEU	561	40.803	101.518	66.353	1.00	64.34	C
ATOM	4148	CG	LEU	561	41.947	100.618	65.850	1.00	64.34	C
ATOM	4149	CD1	LEU	561	43.166	100.704	66.783	1.00	64.34	C
ATOM	4150	CD2	LEU	561	41.471	99.175	65.619	1.00	64.34	C
ATOM	4151	C	LEU	561	38.535	102.368	66.134	1.00	64.34	C
ATOM	4152	O	LEU	561	38.344	103.520	65.755	1.00	64.34	O
ATOM	4153	N	ASP	562	37.853	101.813	67.165	1.00	47.67	N
ATOM	4154	CA	ASP	562	36.848	102.498	67.939	1.00	47.67	C
ATOM	4155	CB	ASP	562	35.788	101.556	68.535	1.00	47.67	C
ATOM	4156	CG	ASP	562	36.487	100.562	69.450	1.00	47.67	C
ATOM	4157	OD1	ASP	562	37.509	99.968	69.011	1.00	47.67	O
ATOM	4158	OD2	ASP	562	36.013	100.388	70.603	1.00	47.67	O
ATOM	4159	C	ASP	562	37.494	103.266	69.066	1.00	47.67	C
ATOM	4160	O	ASP	562	38.716	103.266	69.212	1.00	47.67	O
ATOM	4161	N	THR	563	36.656	103.940	69.895	1.00	68.95	N
ATOM	4162	CA	THR	563	37.061	104.792	70.993	1.00	68.95	C
ATOM	4163	CB	THR	563	35.889	105.393	71.709	1.00	68.95	C
ATOM	4164	OG1	THR	563	35.069	104.372	72.260	1.00	68.95	O
ATOM	4165	CG2	THR	563	35.085	106.236	70.704	1.00	68.95	C
ATOM	4166	C	THR	563	37.853	103.974	71.980	1.00	68.95	C
ATOM	4167	O	THR	563	38.885	104.427	72.472	1.00	68.95	O
ATOM	4168	N	GLU	564	37.385	102.750	72.303	1.00	87.32	N
ATOM	4169	CA	GLU	564	38.002	101.908	73.299	1.00	87.32	C
ATOM	4170	CB	GLU	564	37.130	100.676	73.601	1.00	87.32	C
ATOM	4171	CG	GLU	564	35.763	101.035	74.190	1.00	87.32	C
ATOM	4172	CD	GLU	564	34.883	99.791	74.170	1.00	87.32	C
ATOM	4173	OE1	GLU	564	34.778	99.155	73.087	1.00	87.32	O
ATOM	4174	OE2	GLU	564	34.302	99.461	75.238	1.00	87.32	O
ATOM	4175	C	GLU	564	39.359	101.390	72.892	1.00	87.32	C
ATOM	4176	O	GLU	564	40.331	101.531	73.634	1.00	87.32	O
ATOM	4177	N	SER	565	39.463	100.786	71.692	1.00	43.25	N
ATOM	4178	CA	SER	565	40.673	100.133	71.254	1.00	43.25	C
ATOM	4179	CB	SER	565	40.470	99.302	69.976	1.00	43.25	C
ATOM	4180	OG	SER	565	39.584	98.222	70.230	1.00	43.25	O
ATOM	4181	C	SER	565	41.755	101.125	70.965	1.00	43.25	C
ATOM	4182	O	SER	565	42.938	100.820	71.108	1.00	43.25	O
ATOM	4183	N	GLU	566	41.380	102.343	70.543	1.00	58.14	N
ATOM	4184	CA	GLU	566	42.353	103.324	70.161	1.00	58.14	C
ATOM	4185	CB	GLU	566	41.727	104.586	69.536	1.00	58.14	C
ATOM	4186	CG	GLU	566	40.783	105.354	70.462	1.00	58.14	C

ATOM	4187	CD	GLU	566	40.240	106.545	69.682	1.00	58.14	C
ATOM	4188	OE1	GLU	566	40.689	106.751	68.523	1.00	58.14	O
ATOM	4189	OE2	GLU	566	39.365	107.263	70.236	1.00	58.14	O
ATOM	4190	C	GLU	566	43.190	103.731	71.336	1.00	58.14	C
ATOM	4191	O	GLU	566	44.374	104.026	71.182	1.00	58.14	O
ATOM	4192	N	ALA	567	42.606	103.756	72.547	1.00	33.33	N
ATOM	4193	CA	ALA	567	43.318	104.243	73.697	1.00	33.33	C
ATOM	4194	CB	ALA	567	42.458	104.226	74.973	1.00	33.33	C
ATOM	4195	C	ALA	567	44.543	103.419	73.976	1.00	33.33	C
ATOM	4196	O	ALA	567	45.609	103.970	74.246	1.00	33.33	O
ATOM	4197	N	VAL	568	44.435	102.078	73.920	1.00	98.45	N
ATOM	4198	CA	VAL	568	45.559	101.240	74.242	1.00	98.45	C
ATOM	4199	CB	VAL	568	45.213	99.774	74.264	1.00	98.45	C
ATOM	4200	CG1	VAL	568	44.757	99.336	72.861	1.00	98.45	C
ATOM	4201	CG2	VAL	568	46.433	98.992	74.781	1.00	98.45	C
ATOM	4202	C	VAL	568	46.655	101.434	73.237	1.00	98.45	C
ATOM	4203	O	VAL	568	47.831	101.496	73.595	1.00	98.45	O
ATOM	4204	N	VAL	569	46.291	101.527	71.944	1.00	50.09	N
ATOM	4205	CA	VAL	569	47.263	101.647	70.894	1.00	50.09	C
ATOM	4206	CB	VAL	569	46.648	101.587	69.525	1.00	50.09	C
ATOM	4207	CG1	VAL	569	47.744	101.860	68.480	1.00	50.09	C
ATOM	4208	CG2	VAL	569	45.971	100.213	69.363	1.00	50.09	C
ATOM	4209	C	VAL	569	48.009	102.938	71.025	1.00	50.09	C
ATOM	4210	O	VAL	569	49.226	102.977	70.853	1.00	50.09	O
ATOM	4211	N	GLN	570	47.304	104.030	71.368	1.00	48.11	N
ATOM	4212	CA	GLN	570	47.944	105.312	71.452	1.00	48.11	C
ATOM	4213	CB	GLN	570	46.982	106.419	71.921	1.00	48.11	C
ATOM	4214	CG	GLN	570	47.639	107.796	72.019	1.00	48.11	C
ATOM	4215	CD	GLN	570	47.999	108.239	70.610	1.00	48.11	C
ATOM	4216	OE1	GLN	570	47.647	107.584	69.631	1.00	48.11	O
ATOM	4217	NE2	GLN	570	48.720	109.386	70.502	1.00	48.11	N
ATOM	4218	C	GLN	570	49.044	105.210	72.456	1.00	48.11	C
ATOM	4219	O	GLN	570	50.118	105.778	72.268	1.00	48.11	O
ATOM	4220	N	VAL	571	48.801	104.480	73.558	1.00	27.44	N
ATOM	4221	CA	VAL	571	49.809	104.312	74.562	1.00	27.44	C
ATOM	4222	CB	VAL	571	49.336	103.490	75.725	1.00	27.44	C
ATOM	4223	CG1	VAL	571	50.514	103.282	76.690	1.00	27.44	C
ATOM	4224	CG2	VAL	571	48.122	104.191	76.360	1.00	27.44	C
ATOM	4225	C	VAL	571	50.968	103.592	73.942	1.00	27.44	C
ATOM	4226	O	VAL	571	52.124	103.922	74.202	1.00	27.44	O
ATOM	4227	N	ALA	572	50.687	102.566	73.116	1.00	35.87	N
ATOM	4228	CA	ALA	572	51.733	101.803	72.492	1.00	35.87	C
ATOM	4229	CB	ALA	572	51.194	100.599	71.699	1.00	35.87	C
ATOM	4230	C	ALA	572	52.501	102.668	71.539	1.00	35.87	C
ATOM	4231	O	ALA	572	53.728	102.593	71.477	1.00	35.87	O
ATOM	4232	N	LEU	573	51.790	103.503	70.754	1.00	53.84	N
ATOM	4233	CA	LEU	573	52.424	104.351	69.784	1.00	53.84	C
ATOM	4234	CB	LEU	573	51.412	105.093	68.897	1.00	53.84	C
ATOM	4235	CG	LEU	573	50.543	104.144	68.051	1.00	53.84	C
ATOM	4236	CD1	LEU	573	49.555	104.931	67.175	1.00	53.84	C
ATOM	4237	CD2	LEU	573	51.402	103.150	67.250	1.00	53.84	C
ATOM	4238	C	LEU	573	53.268	105.369	70.486	1.00	53.84	C
ATOM	4239	O	LEU	573	54.400	105.628	70.080	1.00	53.84	O
ATOM	4240	N	ASP	574	52.750	105.958	71.581	1.00	40.82	N
ATOM	4241	CA	ASP	574	53.488	106.964	72.288	1.00	40.82	C
ATOM	4242	CB	ASP	574	52.763	107.477	73.545	1.00	40.82	C
ATOM	4243	CG	ASP	574	51.603	108.359	73.112	1.00	40.82	C
ATOM	4244	OD1	ASP	574	51.631	108.845	71.950	1.00	40.82	O
ATOM	4245	OD2	ASP	574	50.676	108.565	73.941	1.00	40.82	O
ATOM	4246	C	ASP	574	54.766	106.344	72.751	1.00	40.82	C
ATOM	4247	O	ASP	574	55.816	106.982	72.728	1.00	40.82	O
ATOM	4248	N	LYS	575	54.705	105.080	73.202	1.00	56.83	N
ATOM	4249	CA	LYS	575	55.879	104.395	73.665	1.00	56.83	C
ATOM	4250	CB	LYS	575	55.566	102.988	74.203	1.00	56.83	C
ATOM	4251	CG	LYS	575	54.694	102.988	75.459	1.00	56.83	C
ATOM	4252	CD	LYS	575	54.087	101.619	75.773	1.00	56.83	C
ATOM	4253	CE	LYS	575	53.213	101.604	77.029	1.00	56.83	C
ATOM	4254	NZ	LYS	575	54.062	101.575	78.239	1.00	56.83	N
ATOM	4255	C	LYS	575	56.828	104.221	72.516	1.00	56.83	C
ATOM	4256	O	LYS	575	58.034	104.407	72.661	1.00	56.83	O
ATOM	4257	N	ALA	576	56.292	103.852	71.337	1.00	50.64	N
ATOM	4258	CA	ALA	576	57.071	103.581	70.158	1.00	50.64	C
ATOM	4259	CB	ALA	576	56.218	103.046	68.993	1.00	50.64	C
ATOM	4260	C	ALA	576	57.772	104.813	69.671	1.00	50.64	C

ATOM	4261	O	ALA	576	58.873	104.735	69.125	1.00	50.64	O
ATOM	4262	N	ARG	577	57.120	105.982	69.793	1.00	201.83	N
ATOM	4263	CA	ARG	577	57.698	107.193	69.284	1.00	201.83	C
ATOM	4264	CB	ARG	577	56.698	108.329	68.991	1.00	201.83	C
ATOM	4265	CG	ARG	577	55.858	108.841	70.152	1.00	201.83	C
ATOM	4266	CD	ARG	577	54.893	109.941	69.701	1.00	201.83	C
ATOM	4267	NE	ARG	577	54.115	110.379	70.891	1.00	201.83	N
ATOM	4268	CZ	ARG	577	54.594	111.379	71.688	1.00	201.83	C
ATOM	4269	NH1	ARG	577	55.768	111.997	71.372	1.00	201.83	N
ATOM	4270	NH2	ARG	577	53.895	111.755	72.798	1.00	201.83	N
ATOM	4271	C	ARG	577	58.859	107.691	70.094	1.00	201.83	C
ATOM	4272	O	ARG	577	59.688	108.434	69.571	1.00	201.83	O
ATOM	4273	N	LYS	578	58.956	107.332	71.391	1.00	155.25	N
ATOM	4274	CA	LYS	578	60.002	107.910	72.190	1.00	155.25	C
ATOM	4275	CB	LYS	578	59.961	107.481	73.675	1.00	155.25	C
ATOM	4276	CG	LYS	578	60.037	105.976	73.953	1.00	155.25	C
ATOM	4277	CD	LYS	578	61.437	105.370	73.839	1.00	155.25	C
ATOM	4278	CE	LYS	578	61.497	103.895	74.240	1.00	155.25	C
ATOM	4279	NZ	LYS	578	60.748	103.073	73.263	1.00	155.25	N
ATOM	4280	C	LYS	578	61.360	107.658	71.598	1.00	155.25	C
ATOM	4281	O	LYS	578	61.779	106.522	71.381	1.00	155.25	O
ATOM	4282	N	GLY	579	62.083	108.764	71.312	1.00	27.21	N
ATOM	4283	CA	GLY	579	63.428	108.713	70.809	1.00	27.21	C
ATOM	4284	C	GLY	579	63.466	108.513	69.321	1.00	27.21	C
ATOM	4285	O	GLY	579	64.531	108.230	68.773	1.00	27.21	O
ATOM	4286	N	ARG	580	62.328	108.650	68.613	1.00	112.02	N
ATOM	4287	CA	ARG	580	62.360	108.454	67.186	1.00	112.02	C
ATOM	4288	CB	ARG	580	61.577	107.206	66.729	1.00	112.02	C
ATOM	4289	CG	ARG	580	62.195	105.857	67.118	1.00	112.02	C
ATOM	4290	CD	ARG	580	61.363	104.661	66.637	1.00	112.02	C
ATOM	4291	NE	ARG	580	62.179	103.421	66.788	1.00	112.02	N
ATOM	4292	CZ	ARG	580	62.150	102.678	67.932	1.00	112.02	C
ATOM	4293	NH1	ARG	580	61.350	103.049	68.974	1.00	112.02	N
ATOM	4294	NH2	ARG	580	62.921	101.555	68.025	1.00	112.02	N
ATOM	4295	C	ARG	580	61.694	109.620	66.514	1.00	112.02	C
ATOM	4296	O	ARG	580	60.771	110.225	67.056	1.00	112.02	O
ATOM	4297	N	THR	581	62.161	109.963	65.294	1.00	72.04	N
ATOM	4298	CA	THR	581	61.571	111.031	64.529	1.00	72.04	C
ATOM	4299	CB	THR	581	62.363	111.357	63.294	1.00	72.04	C
ATOM	4300	OG1	THR	581	63.722	111.617	63.612	1.00	72.04	O
ATOM	4301	CG2	THR	581	61.731	112.585	62.621	1.00	72.04	C
ATOM	4302	C	THR	581	60.304	110.432	64.001	1.00	72.04	C
ATOM	4303	O	THR	581	60.344	109.300	63.526	1.00	72.04	O
ATOM	4304	N	THR	582	59.158	111.151	64.047	1.00	68.99	N
ATOM	4305	CA	THR	582	57.935	110.543	63.616	1.00	68.99	C
ATOM	4306	CB	THR	582	57.064	110.142	64.776	1.00	68.99	C
ATOM	4307	OG1	THR	582	57.769	109.254	65.631	1.00	68.99	O
ATOM	4308	CG2	THR	582	55.793	109.458	64.246	1.00	68.99	C
ATOM	4309	C	THR	582	57.146	111.505	62.778	1.00	68.99	C
ATOM	4310	O	THR	582	57.127	112.709	63.039	1.00	68.99	O
ATOM	4311	N	ILE	583	56.488	110.968	61.724	1.00	131.37	N
ATOM	4312	CA	ILE	583	55.610	111.709	60.865	1.00	131.37	C
ATOM	4313	CB	ILE	583	56.057	111.706	59.427	1.00	131.37	C
ATOM	4314	CG1	ILE	583	57.482	112.271	59.249	1.00	131.37	C
ATOM	4315	CD2	ILE	583	54.990	112.458	58.613	1.00	131.37	C
ATOM	4316	CD1	ILE	583	57.622	113.770	59.494	1.00	131.37	C
ATOM	4317	C	ILE	583	54.348	110.901	60.876	1.00	131.37	C
ATOM	4318	O	ILE	583	54.392	109.700	60.612	1.00	131.37	O
ATOM	4319	N	VAL	584	53.191	111.519	61.187	1.00	109.28	N
ATOM	4320	CA	VAL	584	51.985	110.741	61.225	1.00	109.28	C
ATOM	4321	CB	VAL	584	51.408	110.616	62.607	1.00	109.28	C
ATOM	4322	CG1	VAL	584	51.114	112.027	63.146	1.00	109.28	C
ATOM	4323	CG2	VAL	584	50.165	109.712	62.539	1.00	109.28	C
ATOM	4324	C	VAL	584	50.947	111.389	60.367	1.00	109.28	C
ATOM	4325	O	VAL	584	50.777	112.608	60.377	1.00	109.28	O
ATOM	4326	N	ILE	585	50.223	110.570	59.582	1.00	90.82	N
ATOM	4327	CA	ILE	585	49.126	111.095	58.830	1.00	90.82	C
ATOM	4328	CB	ILE	585	49.018	110.498	57.463	1.00	90.82	C
ATOM	4329	CG1	ILE	585	50.268	110.955	56.692	1.00	90.82	C
ATOM	4330	CG2	ILE	585	47.693	110.923	56.808	1.00	90.82	C
ATOM	4331	CD1	ILE	585	50.466	110.288	55.344	1.00	90.82	C
ATOM	4332	C	ILE	585	47.948	110.798	59.688	1.00	90.82	C
ATOM	4333	O	ILE	585	47.465	109.669	59.768	1.00	90.82	O
ATOM	4334	N	ALA	586	47.464	111.850	60.375	1.00	63.32	N

ATOM	4335	CA	ALA	586	46.505	111.621	61.405	1.00	63.32	C
ATOM	4336	CB	ALA	586	46.878	112.301	62.733	1.00	63.32	C
ATOM	4337	C	ALA	586	45.140	112.093	61.047	1.00	63.32	C
ATOM	4338	O	ALA	586	44.929	113.193	60.537	1.00	63.32	O
ATOM	4339	N	HIS	587	44.179	111.196	61.322	1.00	101.60	N
ATOM	4340	CA	HIS	587	42.776	111.460	61.310	1.00	101.60	C
ATOM	4341	ND1	HIS	587	41.366	109.774	58.140	1.00	101.60	N
ATOM	4342	CG	HIS	587	42.078	110.543	59.034	1.00	101.60	C
ATOM	4343	CB	HIS	587	41.925	110.445	60.524	1.00	101.60	C
ATOM	4344	NE2	HIS	587	42.683	111.096	56.931	1.00	101.60	N
ATOM	4345	CD2	HIS	587	42.878	111.344	58.279	1.00	101.60	C
ATOM	4346	CE1	HIS	587	41.765	110.147	56.898	1.00	101.60	C
ATOM	4347	C	HIS	587	42.454	111.281	62.763	1.00	101.60	C
ATOM	4348	O	HIS	587	43.319	110.827	63.511	1.00	101.60	O
ATOM	4349	N	ARG	588	41.219	111.578	63.213	1.00	102.44	N
ATOM	4350	CA	ARG	588	40.973	111.487	64.631	1.00	102.44	C
ATOM	4351	CB	ARG	588	41.127	110.066	65.202	1.00	102.44	C
ATOM	4352	CG	ARG	588	40.042	109.079	64.767	1.00	102.44	C
ATOM	4353	CD	ARG	588	40.244	107.685	65.366	1.00	102.44	C
ATOM	4354	NE	ARG	588	39.133	106.809	64.899	1.00	102.44	N
ATOM	4355	CZ	ARG	588	37.986	106.700	65.633	1.00	102.44	C
ATOM	4356	NH1	ARG	588	37.844	107.404	66.795	1.00	102.44	N
ATOM	4357	NH2	ARG	588	36.981	105.884	65.204	1.00	102.44	N
ATOM	4358	C	ARG	588	41.970	112.362	65.331	1.00	102.44	C
ATOM	4359	O	ARG	588	42.980	111.910	65.863	1.00	102.44	O
ATOM	4360	N	LEU	589	41.671	113.667	65.335	1.00	100.21	N
ATOM	4361	CA	LEU	589	42.492	114.748	65.792	1.00	100.21	C
ATOM	4362	CB	LEU	589	41.792	116.088	65.542	1.00	100.21	C
ATOM	4363	CG	LEU	589	41.497	116.326	64.051	1.00	100.21	C
ATOM	4364	CD1	LEU	589	40.679	117.604	63.852	1.00	100.21	C
ATOM	4365	CD2	LEU	589	42.783	116.324	63.209	1.00	100.21	C
ATOM	4366	C	LEU	589	42.826	114.670	67.258	1.00	100.21	C
ATOM	4367	O	LEU	589	43.891	115.130	67.661	1.00	100.21	O
ATOM	4368	N	SER	590	41.947	114.107	68.106	1.00	51.48	N
ATOM	4369	CA	SER	590	42.161	114.151	69.533	1.00	51.48	C
ATOM	4370	CB	SER	590	41.062	113.409	70.312	1.00	51.48	C
ATOM	4371	OG	SER	590	39.804	114.031	70.092	1.00	51.48	O
ATOM	4372	C	SER	590	43.476	113.526	69.911	1.00	51.48	C
ATOM	4373	O	SER	590	44.093	113.922	70.898	1.00	51.48	O
ATOM	4374	N	THR	591	43.942	112.535	69.136	1.00	131.36	N
ATOM	4375	CA	THR	591	45.153	111.803	69.395	1.00	131.36	C
ATOM	4376	CB	THR	591	45.319	110.726	68.367	1.00	131.36	C
ATOM	4377	OG1	THR	591	44.192	109.864	68.387	1.00	131.36	O
ATOM	4378	CG2	THR	591	46.597	109.935	68.653	1.00	131.36	C
ATOM	4379	C	THR	591	46.350	112.706	69.284	1.00	131.36	C
ATOM	4380	O	THR	591	47.353	112.515	69.969	1.00	131.36	O
ATOM	4381	N	VAL	592	46.269	113.675	68.358	1.00	88.93	N
ATOM	4382	CA	VAL	592	47.287	114.609	67.948	1.00	88.93	C
ATOM	4383	CB	VAL	592	46.911	115.295	66.660	1.00	88.93	C
ATOM	4384	CG1	VAL	592	47.934	116.396	66.326	1.00	88.93	C
ATOM	4385	CG2	VAL	592	46.794	114.216	65.570	1.00	88.93	C
ATOM	4386	C	VAL	592	47.635	115.678	68.954	1.00	88.93	C
ATOM	4387	O	VAL	592	48.756	116.186	68.929	1.00	88.93	O
ATOM	4388	N	ARG	593	46.725	116.041	69.880	1.00	146.19	N
ATOM	4389	CA	ARG	593	46.909	117.225	70.688	1.00	146.19	C
ATOM	4390	CB	ARG	593	45.798	117.442	71.732	1.00	146.19	C
ATOM	4391	CG	ARG	593	44.583	118.159	71.138	1.00	146.19	C
ATOM	4392	CD	ARG	593	43.546	118.616	72.167	1.00	146.19	C
ATOM	4393	NE	ARG	593	42.614	117.483	72.406	1.00	146.19	N
ATOM	4394	CZ	ARG	593	41.448	117.409	71.700	1.00	146.19	C
ATOM	4395	NH1	ARG	593	41.125	118.384	70.800	1.00	146.19	N
ATOM	4396	NH2	ARG	593	40.598	116.361	71.895	1.00	146.19	N
ATOM	4397	C	ARG	593	48.241	117.273	71.388	1.00	146.19	C
ATOM	4398	O	ARG	593	48.832	118.346	71.502	1.00	146.19	O
ATOM	4399	N	ASN	594	48.760	116.138	71.875	1.00	114.99	N
ATOM	4400	CA	ASN	594	50.020	116.107	72.570	1.00	114.99	C
ATOM	4401	CB	ASN	594	50.305	114.750	73.246	1.00	114.99	C
ATOM	4402	CG	ASN	594	50.348	113.660	72.185	1.00	114.99	C
ATOM	4403	OD1	ASN	594	49.339	113.349	71.555	1.00	114.99	O
ATOM	4404	ND2	ASN	594	51.550	113.057	71.982	1.00	114.99	N
ATOM	4405	C	ASN	594	51.184	116.428	71.661	1.00	114.99	C
ATOM	4406	O	ASN	594	52.258	116.783	72.144	1.00	114.99	O
ATOM	4407	N	ALA	595	51.021	116.286	70.329	1.00	56.93	N
ATOM	4408	CA	ALA	595	52.091	116.416	69.368	1.00	56.93	C

ATOM	4409	CB	ALA	595	51.624	116.242	67.911	1.00	56.93	C
ATOM	4410	C	ALA	595	52.799	117.735	69.461	1.00	56.93	C
ATOM	4411	O	ALA	595	52.261	118.734	69.938	1.00	56.93	O
ATOM	4412	N	ASP	596	54.083	117.720	69.033	1.00	60.84	N
ATOM	4413	CA	ASP	596	54.970	118.850	69.060	1.00	60.84	C
ATOM	4414	CB	ASP	596	56.398	118.475	68.631	1.00	60.84	C
ATOM	4415	CG	ASP	596	56.938	117.456	69.623	1.00	60.84	C
ATOM	4416	OD1	ASP	596	56.144	116.991	70.483	1.00	60.84	O
ATOM	4417	OD2	ASP	596	58.150	117.124	69.530	1.00	60.84	O
ATOM	4418	C	ASP	596	54.515	119.912	68.107	1.00	60.84	C
ATOM	4419	O	ASP	596	54.489	121.090	68.459	1.00	60.84	O
ATOM	4420	N	VAL	597	54.157	119.531	66.863	1.00	111.38	N
ATOM	4421	CA	VAL	597	53.777	120.530	65.906	1.00	111.38	C
ATOM	4422	CB	VAL	597	54.947	121.060	65.128	1.00	111.38	C
ATOM	4423	CG1	VAL	597	55.607	119.890	64.378	1.00	111.38	C
ATOM	4424	CG2	VAL	597	54.459	122.195	64.212	1.00	111.38	C
ATOM	4425	C	VAL	597	52.807	119.927	64.932	1.00	111.38	C
ATOM	4426	O	VAL	597	52.839	118.725	64.677	1.00	111.38	O
ATOM	4427	N	ILE	598	51.907	120.763	64.368	1.00	195.49	N
ATOM	4428	CA	ILE	598	50.963	120.327	63.372	1.00	195.49	C
ATOM	4429	CB	ILE	598	49.492	120.317	63.736	1.00	195.49	C
ATOM	4430	CG1	ILE	598	49.087	121.521	64.585	1.00	195.49	C
ATOM	4431	CG2	ILE	598	49.110	118.956	64.320	1.00	195.49	C
ATOM	4432	CD1	ILE	598	49.538	121.343	66.034	1.00	195.49	C
ATOM	4433	C	ILE	598	51.128	121.090	62.105	1.00	195.49	C
ATOM	4434	O	ILE	598	51.612	122.220	62.089	1.00	195.49	O
ATOM	4435	N	ALA	599	50.790	120.419	60.984	1.00	51.95	N
ATOM	4436	CA	ALA	599	50.845	121.045	59.696	1.00	51.95	C
ATOM	4437	CB	ALA	599	51.923	120.453	58.772	1.00	51.95	C
ATOM	4438	C	ALA	599	49.514	120.825	59.036	1.00	51.95	C
ATOM	4439	O	ALA	599	49.002	119.706	58.994	1.00	51.95	O
ATOM	4440	N	GLY	600	48.926	121.904	58.479	1.00	34.16	N
ATOM	4441	CA	GLY	600	47.651	121.800	57.825	1.00	34.16	C
ATOM	4442	C	GLY	600	47.897	121.920	56.358	1.00	34.16	C
ATOM	4443	O	GLY	600	48.570	122.844	55.905	1.00	34.16	O
ATOM	4444	N	PHE	601	47.312	120.994	55.572	1.00	79.88	N
ATOM	4445	CA	PHE	601	47.570	120.975	54.163	1.00	79.88	C
ATOM	4446	CB	PHE	601	47.964	119.585	53.628	1.00	79.88	C
ATOM	4447	CG	PHE	601	49.360	119.292	54.066	1.00	79.88	C
ATOM	4448	CD1	PHE	601	49.640	118.915	55.360	1.00	79.88	C
ATOM	4449	CD2	PHE	601	50.398	119.382	53.168	1.00	79.88	C
ATOM	4450	CE1	PHE	601	50.931	118.645	55.753	1.00	79.88	C
ATOM	4451	CE2	PHE	601	51.689	119.113	53.557	1.00	79.88	C
ATOM	4452	CZ	PHE	601	51.963	118.743	54.850	1.00	79.88	C
ATOM	4453	C	PHE	601	46.369	121.428	53.406	1.00	79.88	C
ATOM	4454	O	PHE	601	45.227	121.138	53.764	1.00	79.88	O
ATOM	4455	N	ASP	602	46.628	122.209	52.340	1.00	63.59	N
ATOM	4456	CA	ASP	602	45.593	122.666	51.467	1.00	63.59	C
ATOM	4457	CB	ASP	602	45.094	124.078	51.823	1.00	63.59	C
ATOM	4458	CG	ASP	602	43.757	124.309	51.136	1.00	63.59	C
ATOM	4459	OD1	ASP	602	43.550	123.748	50.027	1.00	63.59	O
ATOM	4460	OD2	ASP	602	42.917	125.044	51.723	1.00	63.59	O
ATOM	4461	C	ASP	602	46.198	122.704	50.096	1.00	63.59	C
ATOM	4462	O	ASP	602	47.051	123.541	49.805	1.00	63.59	O
ATOM	4463	N	ASP	603	45.753	121.796	49.210	1.00	90.71	N
ATOM	4464	CA	ASP	603	46.242	121.741	47.861	1.00	90.71	C
ATOM	4465	CB	ASP	603	45.933	123.025	47.068	1.00	90.71	C
ATOM	4466	CG	ASP	603	46.190	122.744	45.596	1.00	90.71	C
ATOM	4467	OD1	ASP	603	46.577	121.588	45.279	1.00	90.71	O
ATOM	4468	OD2	ASP	603	45.996	123.675	44.770	1.00	90.71	O
ATOM	4469	C	ASP	603	47.726	121.500	47.809	1.00	90.71	C
ATOM	4470	O	ASP	603	48.441	122.153	47.051	1.00	90.71	O
ATOM	4471	N	GLY	604	48.239	120.564	48.635	1.00	30.55	N
ATOM	4472	CA	GLY	604	49.611	120.145	48.525	1.00	30.55	C
ATOM	4473	C	GLY	604	50.539	121.112	49.187	1.00	30.55	C
ATOM	4474	O	GLY	604	51.756	120.931	49.135	1.00	30.55	O
ATOM	4475	N	VAL	605	50.007	122.163	49.834	1.00	40.15	N
ATOM	4476	CA	VAL	605	50.890	123.105	50.456	1.00	40.15	C
ATOM	4477	CB	VAL	605	50.784	124.487	49.880	1.00	40.15	C
ATOM	4478	CG1	VAL	605	51.726	125.422	50.658	1.00	40.15	C
ATOM	4479	CG2	VAL	605	51.078	124.414	48.372	1.00	40.15	C
ATOM	4480	C	VAL	605	50.509	123.202	51.894	1.00	40.15	C
ATOM	4481	O	VAL	605	49.350	122.999	52.254	1.00	40.15	O
ATOM	4482	N	ILE	606	51.494	123.490	52.770	1.00	204.48	N

ATOM	4483	CA	ILE	606	51.132	123.688	54.140	1.00204.48	C
ATOM	4484	CB	ILE	606	51.886	122.885	55.175	1.00204.48	C
ATOM	4485	CG1	ILE	606	53.397	122.793	54.914	1.00204.48	C
ATOM	4486	CG2	ILE	606	51.154	121.554	55.349	1.00204.48	C
ATOM	4487	CD1	ILE	606	54.187	124.043	55.259	1.00204.48	C
ATOM	4488	C	ILE	606	51.000	125.141	54.446	1.00204.48	C
ATOM	4489	O	ILE	606	51.940	125.930	54.352	1.00204.48	O
ATOM	4490	N	VAL	607	49.723	125.508	54.696	1.00 64.50	N
ATOM	4491	CA	VAL	607	49.229	126.823	54.985	1.00 64.50	C
ATOM	4492	CB	VAL	607	47.735	126.898	54.855	1.00 64.50	C
ATOM	4493	CG1	VAL	607	47.277	128.327	55.194	1.00 64.50	C
ATOM	4494	CG2	VAL	607	47.345	126.432	53.442	1.00 64.50	C
ATOM	4495	C	VAL	607	49.573	127.280	56.372	1.00 64.50	C
ATOM	4496	O	VAL	607	49.942	128.437	56.568	1.00 64.50	O
ATOM	4497	N	GLU	608	49.444	126.392	57.378	1.00120.02	N
ATOM	4498	CA	GLU	608	49.611	126.829	58.740	1.00120.02	C
ATOM	4499	CB	GLU	608	48.283	126.887	59.511	1.00120.02	C
ATOM	4500	CG	GLU	608	47.254	127.861	58.943	1.00120.02	C
ATOM	4501	CD	GLU	608	45.918	127.554	59.606	1.00120.02	C
ATOM	4502	OE1	GLU	608	45.876	126.631	60.464	1.00120.02	O
ATOM	4503	OE2	GLU	608	44.919	128.236	59.256	1.00120.02	O
ATOM	4504	C	GLU	608	50.409	125.806	59.480	1.00120.02	C
ATOM	4505	O	GLU	608	50.321	124.614	59.194	1.00120.02	O
ATOM	4506	N	LYS	609	51.202	126.257	60.476	1.00 43.34	N
ATOM	4507	CA	LYS	609	51.975	125.330	61.252	1.00 43.34	C
ATOM	4508	CB	LYS	609	53.383	125.095	60.682	1.00 43.34	C
ATOM	4509	CG	LYS	609	54.208	124.079	61.473	1.00 43.34	C
ATOM	4510	CD	LYS	609	55.475	123.633	60.742	1.00 43.34	C
ATOM	4511	CE	LYS	609	56.310	122.617	61.523	1.00 43.34	C
ATOM	4512	NZ	LYS	609	57.508	122.242	60.739	1.00 43.34	N
ATOM	4513	C	LYS	609	52.133	125.893	62.632	1.00 43.34	C
ATOM	4514	O	LYS	609	52.295	127.101	62.803	1.00 43.34	O
ATOM	4515	N	GLY	610	52.090	125.020	63.662	1.00 25.51	N
ATOM	4516	CA	GLY	610	52.253	125.491	65.007	1.00 25.51	C
ATOM	4517	C	GLY	610	51.680	124.475	65.943	1.00 25.51	C
ATOM	4518	O	GLY	610	51.285	123.387	65.530	1.00 25.51	O
ATOM	4519	N	ASN	611	51.624	124.826	67.245	1.00 51.49	N
ATOM	4520	CA	ASN	611	51.120	123.951	68.268	1.00 51.49	C
ATOM	4521	CB	ASN	611	51.528	124.377	69.697	1.00 51.49	C
ATOM	4522	CG	ASN	611	51.131	123.306	70.706	1.00 51.49	C
ATOM	4523	OD1	ASN	611	50.040	123.344	71.275	1.00 51.49	O
ATOM	4524	ND2	ASN	611	52.039	122.320	70.935	1.00 51.49	N
ATOM	4525	C	ASN	611	49.625	123.929	68.162	1.00 51.49	C
ATOM	4526	O	ASN	611	49.028	124.713	67.427	1.00 51.49	O
ATOM	4527	N	HIS	612	48.983	123.005	68.901	1.00 69.96	N
ATOM	4528	CA	HIS	612	47.564	122.799	68.835	1.00 69.96	C
ATOM	4529	ND1	HIS	612	44.629	121.952	70.405	1.00 69.96	N
ATOM	4530	CG	HIS	612	45.630	121.349	69.675	1.00 69.96	C
ATOM	4531	CB	HIS	612	47.088	121.690	69.794	1.00 69.96	C
ATOM	4532	NE2	HIS	612	43.642	120.438	69.112	1.00 69.96	N
ATOM	4533	CD2	HIS	612	45.008	120.427	68.890	1.00 69.96	C
ATOM	4534	CE1	HIS	612	43.463	121.370	70.030	1.00 69.96	C
ATOM	4535	C	HIS	612	46.847	124.057	69.197	1.00 69.96	C
ATOM	4536	O	HIS	612	45.902	124.459	68.521	1.00 69.96	O
ATOM	4537	N	ASP	613	47.282	124.730	70.271	1.00 50.21	N
ATOM	4538	CA	ASP	613	46.582	125.904	70.688	1.00 50.21	C
ATOM	4539	CB	ASP	613	47.049	126.418	72.058	1.00 50.21	C
ATOM	4540	CG	ASP	613	46.582	125.400	73.089	1.00 50.21	C
ATOM	4541	OD1	ASP	613	45.455	124.864	72.916	1.00 50.21	O
ATOM	4542	OD2	ASP	613	47.346	125.138	74.056	1.00 50.21	O
ATOM	4543	C	ASP	613	46.699	126.973	69.638	1.00 50.21	C
ATOM	4544	O	ASP	613	45.761	127.744	69.446	1.00 50.21	O
ATOM	4545	N	GLU	614	47.847	127.068	68.928	1.00 81.62	N
ATOM	4546	CA	GLU	614	47.972	128.113	67.945	1.00 81.62	C
ATOM	4547	CB	GLU	614	49.372	128.291	67.328	1.00 81.62	C
ATOM	4548	CG	GLU	614	50.343	129.088	68.201	1.00 81.62	C
ATOM	4549	CD	GLU	614	51.122	128.093	69.033	1.00 81.62	C
ATOM	4550	OE1	GLU	614	50.964	126.878	68.753	1.00 81.62	O
ATOM	4551	OE2	GLU	614	51.882	128.519	69.943	1.00 81.62	O
ATOM	4552	C	GLU	614	47.027	127.914	66.801	1.00 81.62	C
ATOM	4553	O	GLU	614	46.383	128.863	66.358	1.00 81.62	O
ATOM	4554	N	LEU	615	46.906	126.680	66.281	1.00 93.62	N
ATOM	4555	CA	LEU	615	46.045	126.482	65.148	1.00 93.62	C
ATOM	4556	CB	LEU	615	46.109	125.069	64.536	1.00 93.62	C

ATOM	4557	CG	LEU	615	47.417	124.775	63.773	1.00	93.62	C
ATOM	4558	CD1	LEU	615	48.626	124.702	64.715	1.00	93.62	C
ATOM	4559	CD2	LEU	615	47.277	123.537	62.874	1.00	93.62	C
ATOM	4560	C	LEU	615	44.629	126.747	65.542	1.00	93.62	C
ATOM	4561	O	LEU	615	43.844	127.264	64.747	1.00	93.62	O
ATOM	4562	N	MET	616	44.254	126.377	66.779	1.00	62.24	N
ATOM	4563	CA	MET	616	42.907	126.592	67.219	1.00	62.24	C
ATOM	4564	CB	MET	616	42.652	126.058	68.640	1.00	62.24	C
ATOM	4565	CG	MET	616	42.705	124.531	68.742	1.00	62.24	C
ATOM	4566	SD	MET	616	41.312	123.667	67.953	1.00	62.24	S
ATOM	4567	CE	MET	616	41.825	124.024	66.249	1.00	62.24	C
ATOM	4568	C	MET	616	42.640	128.065	67.229	1.00	62.24	C
ATOM	4569	O	MET	616	41.559	128.511	66.847	1.00	62.24	O
ATOM	4570	N	LYS	617	43.617	128.868	67.688	1.00	138.92	N
ATOM	4571	CA	LYS	617	43.418	130.288	67.721	1.00	138.92	C
ATOM	4572	CB	LYS	617	44.492	131.054	68.521	1.00	138.92	C
ATOM	4573	CG	LYS	617	45.907	131.047	67.941	1.00	138.92	C
ATOM	4574	CD	LYS	617	46.068	131.911	66.690	1.00	138.92	C
ATOM	4575	CE	LYS	617	45.998	133.413	66.970	1.00	138.92	C
ATOM	4576	NZ	LYS	617	46.107	134.165	65.700	1.00	138.92	N
ATOM	4577	C	LYS	617	43.354	130.822	66.322	1.00	138.92	C
ATOM	4578	O	LYS	617	42.577	131.731	66.034	1.00	138.92	O
ATOM	4579	N	GLU	618	44.158	130.245	65.405	1.00	103.88	N
ATOM	4580	CA	GLU	618	44.232	130.721	64.050	1.00	103.88	C
ATOM	4581	CB	GLU	618	45.189	129.908	63.165	1.00	103.88	C
ATOM	4582	CG	GLU	618	46.659	130.225	63.422	1.00	103.88	C
ATOM	4583	CD	GLU	618	46.905	131.646	62.932	1.00	103.88	C
ATOM	4584	OE1	GLU	618	45.943	132.262	62.401	1.00	103.88	O
ATOM	4585	OE2	GLU	618	48.056	132.134	63.084	1.00	103.88	O
ATOM	4586	C	GLU	618	42.878	130.619	63.439	1.00	103.88	C
ATOM	4587	O	GLU	618	42.484	131.465	62.637	1.00	103.88	O
ATOM	4588	N	LYS	619	42.123	129.576	63.812	1.00	116.51	N
ATOM	4589	CA	LYS	619	40.805	129.408	63.286	1.00	116.51	C
ATOM	4590	CB	LYS	619	39.901	130.604	63.619	1.00	116.51	C
ATOM	4591	CG	LYS	619	38.415	130.266	63.603	1.00	116.51	C
ATOM	4592	CD	LYS	619	37.550	131.319	64.298	1.00	116.51	C
ATOM	4593	CE	LYS	619	36.059	130.976	64.314	1.00	116.51	C
ATOM	4594	NZ	LYS	619	35.512	131.024	62.940	1.00	116.51	N
ATOM	4595	C	LYS	619	40.908	129.230	61.802	1.00	116.51	C
ATOM	4596	O	LYS	619	40.109	129.768	61.036	1.00	116.51	O
ATOM	4597	N	GLY	620	41.918	128.443	61.373	1.00	30.03	N
ATOM	4598	CA	GLY	620	42.153	128.137	59.992	1.00	30.03	C
ATOM	4599	C	GLY	620	41.547	126.795	59.708	1.00	30.03	C
ATOM	4600	O	GLY	620	40.477	126.465	60.217	1.00	30.03	O
ATOM	4601	N	ILE	621	42.214	125.992	58.850	1.00	166.64	N
ATOM	4602	CA	ILE	621	41.688	124.703	58.487	1.00	166.64	C
ATOM	4603	CB	ILE	621	42.388	124.018	57.338	1.00	166.64	C
ATOM	4604	CG1	ILE	621	43.890	123.813	57.588	1.00	166.64	C
ATOM	4605	CG2	ILE	621	42.063	124.802	56.060	1.00	166.64	C
ATOM	4606	CD1	ILE	621	44.700	125.105	57.532	1.00	166.64	C
ATOM	4607	C	ILE	621	41.647	123.756	59.649	1.00	166.64	C
ATOM	4608	O	ILE	621	40.654	123.058	59.847	1.00	166.64	O
ATOM	4609	N	TYR	622	42.710	123.721	60.469	1.00	80.01	N
ATOM	4610	CA	TYR	622	42.813	122.771	61.544	1.00	80.01	C
ATOM	4611	CB	TYR	622	44.155	122.913	62.286	1.00	80.01	C
ATOM	4612	CG	TYR	622	44.292	121.836	63.307	1.00	80.01	C
ATOM	4613	CD1	TYR	622	44.645	120.559	62.934	1.00	80.01	C
ATOM	4614	CD2	TYR	622	44.091	122.109	64.639	1.00	80.01	C
ATOM	4615	CE1	TYR	622	44.783	119.565	63.874	1.00	80.01	C
ATOM	4616	CE2	TYR	622	44.228	121.120	65.583	1.00	80.01	C
ATOM	4617	CZ	TYR	622	44.574	119.846	65.201	1.00	80.01	C
ATOM	4618	OH	TYR	622	44.716	118.830	66.170	1.00	80.01	O
ATOM	4619	C	TYR	622	41.688	122.979	62.520	1.00	80.01	C
ATOM	4620	O	TYR	622	41.099	122.022	63.021	1.00	80.01	O
ATOM	4621	N	PHE	623	41.351	124.247	62.805	1.00	55.16	N
ATOM	4622	CA	PHE	623	40.335	124.594	63.758	1.00	55.16	C
ATOM	4623	CB	PHE	623	40.188	126.116	63.928	1.00	55.16	C
ATOM	4624	CG	PHE	623	39.120	126.371	64.934	1.00	55.16	C
ATOM	4625	CD1	PHE	623	39.373	126.247	66.277	1.00	55.16	C
ATOM	4626	CD2	PHE	623	37.859	126.751	64.525	1.00	55.16	C
ATOM	4627	CE1	PHE	623	38.385	126.487	67.203	1.00	55.16	C
ATOM	4628	CE2	PHE	623	36.868	126.993	65.446	1.00	55.16	C
ATOM	4629	CZ	PHE	623	37.130	126.861	66.788	1.00	55.16	C
ATOM	4630	C	PHE	623	39.011	124.045	63.320	1.00	55.16	C

ATOM	4631	O	PHE	623	38.232	123.570	64.144	1.00	55.16	O
ATOM	4632	N	LYS	624	38.711	124.102	62.010	1.00	83.42	N
ATOM	4633	CA	LYS	624	37.434	123.656	61.525	1.00	83.42	C
ATOM	4634	CB	LYS	624	37.283	123.818	60.003	1.00	83.42	C
ATOM	4635	CG	LYS	624	37.198	125.274	59.545	1.00	83.42	C
ATOM	4636	CD	LYS	624	35.982	126.018	60.098	1.00	83.42	C
ATOM	4637	CE	LYS	624	35.896	127.476	59.644	1.00	83.42	C
ATOM	4638	NZ	LYS	624	34.694	128.116	60.223	1.00	83.42	N
ATOM	4639	C	LYS	624	37.250	122.200	61.830	1.00	83.42	C
ATOM	4640	O	LYS	624	36.176	121.787	62.263	1.00	83.42	O
ATOM	4641	N	LEU	625	38.293	121.377	61.612	1.00	88.63	N
ATOM	4642	CA	LEU	625	38.150	119.963	61.814	1.00	88.63	C
ATOM	4643	CB	LEU	625	39.386	119.150	61.385	1.00	88.63	C
ATOM	4644	CG	LEU	625	39.607	119.093	59.861	1.00	88.63	C
ATOM	4645	CD1	LEU	625	39.909	120.479	59.271	1.00	88.63	C
ATOM	4646	CD2	LEU	625	40.670	118.044	59.499	1.00	88.63	C
ATOM	4647	C	LEU	625	37.890	119.649	63.256	1.00	88.63	C
ATOM	4648	O	LEU	625	37.009	118.851	63.572	1.00	88.63	O
ATOM	4649	N	VAL	626	38.639	120.287	64.172	1.00	40.53	N
ATOM	4650	CA	VAL	626	38.546	119.971	65.569	1.00	40.53	C
ATOM	4651	CB	VAL	626	39.548	120.728	66.389	1.00	40.53	C
ATOM	4652	CG1	VAL	626	39.298	120.431	67.877	1.00	40.53	C
ATOM	4653	CG2	VAL	626	40.955	120.338	65.903	1.00	40.53	C
ATOM	4654	C	VAL	626	37.180	120.285	66.098	1.00	40.53	C
ATOM	4655	O	VAL	626	36.604	119.496	66.844	1.00	40.53	O
ATOM	4656	N	THR	627	36.612	121.438	65.705	1.00	33.97	N
ATOM	4657	CA	THR	627	35.363	121.883	66.256	1.00	33.97	C
ATOM	4658	CB	THR	627	34.912	123.192	65.677	1.00	33.97	C
ATOM	4659	OG1	THR	627	35.888	124.196	65.909	1.00	33.97	O
ATOM	4660	CG2	THR	627	33.579	123.584	66.336	1.00	33.97	C
ATOM	4661	C	THR	627	34.280	120.900	65.973	1.00	33.97	C
ATOM	4662	O	THR	627	33.515	120.551	66.869	1.00	33.97	O
ATOM	4663	N	MET	628	34.178	120.410	64.726	1.00	109.29	N
ATOM	4664	CA	MET	628	33.064	119.549	64.472	1.00	109.29	C
ATOM	4665	CB	MET	628	32.896	119.128	63.005	1.00	109.29	C
ATOM	4666	CG	MET	628	31.686	118.210	62.821	1.00	109.29	C
ATOM	4667	SD	MET	628	30.092	118.961	63.275	1.00	109.29	S
ATOM	4668	CE	MET	628	30.094	120.220	61.968	1.00	109.29	C
ATOM	4669	C	MET	628	33.157	118.317	65.309	1.00	109.29	C
ATOM	4670	O	MET	628	32.162	117.889	65.893	1.00	109.29	O
ATOM	4671	N	GLN	629	34.353	117.716	65.414	1.00	33.94	N
ATOM	4672	CA	GLN	629	34.443	116.517	66.197	1.00	33.94	C
ATOM	4673	CB	GLN	629	35.851	115.901	66.222	1.00	33.94	C
ATOM	4674	CG	GLN	629	36.317	115.330	64.884	1.00	33.94	C
ATOM	4675	CD	GLN	629	37.715	114.768	65.100	1.00	33.94	C
ATOM	4676	OE1	GLN	629	38.290	114.903	66.179	1.00	33.94	O
ATOM	4677	NE2	GLN	629	38.280	114.121	64.046	1.00	33.94	N
ATOM	4678	C	GLN	629	34.121	116.877	67.603	1.00	33.94	C
ATOM	4679	O	GLN	629	33.376	116.179	68.290	1.00	33.94	O
ATOM	4680	N	THR	630	34.651	118.028	68.044	1.00	75.46	N
ATOM	4681	CA	THR	630	34.468	118.449	69.394	1.00	75.46	C
ATOM	4682	CB	THR	630	35.061	119.797	69.672	1.00	75.46	C
ATOM	4683	OG1	THR	630	36.453	119.781	69.402	1.00	75.46	O
ATOM	4684	CG2	THR	630	34.816	120.151	71.148	1.00	75.46	C
ATOM	4685	C	THR	630	33.008	118.557	69.622	1.00	75.46	C
ATOM	4686	O	THR	630	32.532	118.179	70.685	1.00	75.46	O
ATOM	4687	N	ALA	631	32.261	119.074	68.630	1.00	231.54	N
ATOM	4688	CA	ALA	631	30.849	119.257	68.781	1.00	231.54	C
ATOM	4689	CB	ALA	631	30.105	118.069	69.420	1.00	231.54	C
ATOM	4690	C	ALA	631	30.699	120.452	69.652	1.00	231.54	C
ATOM	4691	O	ALA	631	31.595	120.763	70.436	1.00	231.54	O
ATOM	4692	N	GLY	632	29.560	121.160	69.545	1.00	114.85	N
ATOM	4693	CA	GLY	632	29.470	122.369	70.303	1.00	114.85	C
ATOM	4694	C	GLY	632	30.571	123.205	69.752	1.00	114.85	C
ATOM	4695	O	GLY	632	30.717	123.318	68.536	1.00	114.85	O
ATOM	4696	N	ASN	633	31.383	123.826	70.625	1.00	220.15	N
ATOM	4697	CA	ASN	633	32.494	124.531	70.067	1.00	220.15	C
ATOM	4698	CB	ASN	633	32.254	126.036	69.874	1.00	220.15	C
ATOM	4699	CG	ASN	633	33.431	126.579	69.075	1.00	220.15	C
ATOM	4700	OD1	ASN	633	33.886	125.957	68.117	1.00	220.15	O
ATOM	4701	ND2	ASN	633	33.945	127.770	69.483	1.00	220.15	N
ATOM	4702	C	ASN	633	33.663	124.382	70.983	1.00	220.15	C
ATOM	4703	O	ASN	633	33.533	124.477	72.202	1.00	220.15	O
ATOM	4704	N	GLU	634	34.847	124.108	70.402	1.00	228.23	N

ATOM	4705	CA	GLU	634	36.047	124.070	71.180	1.00228.23	C
ATOM	4706	CB	GLU	634	36.894	122.797	70.990	1.00228.23	C
ATOM	4707	CG	GLU	634	38.169	122.794	71.840	1.00228.23	C
ATOM	4708	CD	GLU	634	38.938	121.503	71.584	1.00228.23	C
ATOM	4709	OE1	GLU	634	38.383	120.606	70.897	1.00228.23	O
ATOM	4710	OE2	GLU	634	40.095	121.400	72.071	1.00228.23	O
ATOM	4711	C	GLU	634	36.861	125.203	70.660	1.00228.23	C
ATOM	4712	O	GLU	634	37.223	125.221	69.485	1.00228.23	O
ATOM	4713	N	VAL	635	37.156	126.201	71.512	1.00134.44	N
ATOM	4714	CA	VAL	635	37.911	127.295	70.986	1.00134.44	C
ATOM	4715	CB	VAL	635	37.053	128.402	70.451	1.00134.44	C
ATOM	4716	CG1	VAL	635	36.213	128.969	71.608	1.00134.44	C
ATOM	4717	CG2	VAL	635	37.963	129.445	69.782	1.00134.44	C
ATOM	4718	C	VAL	635	38.738	127.886	72.074	1.00134.44	C
ATOM	4719	O	VAL	635	38.401	127.805	73.254	1.00134.44	O
ATOM	4720	N	GLU	636	39.881	128.473	71.677	1.00296.09	N
ATOM	4721	CA	GLU	636	40.722	129.186	72.585	1.00296.09	C
ATOM	4722	CB	GLU	636	41.628	128.305	73.460	1.00296.09	C
ATOM	4723	CG	GLU	636	42.677	127.508	72.689	1.00296.09	C
ATOM	4724	CD	GLU	636	43.510	126.764	73.721	1.00296.09	C
ATOM	4725	OE1	GLU	636	42.987	125.780	74.310	1.00296.09	O
ATOM	4726	OE2	GLU	636	44.678	127.179	73.942	1.00296.09	O
ATOM	4727	C	GLU	636	41.593	130.038	71.727	1.00296.09	C
ATOM	4728	O	GLU	636	41.802	129.735	70.553	1.00296.09	O
ATOM	4729	N	LEU	637	42.110	131.149	72.281	1.00296.59	N
ATOM	4730	CA	LEU	637	42.924	132.009	71.478	1.00296.59	C
ATOM	4731	CB	LEU	637	42.463	133.480	71.542	1.00296.59	C
ATOM	4732	CG	LEU	637	43.202	134.452	70.600	1.00296.59	C
ATOM	4733	CD1	LEU	637	44.668	134.666	71.008	1.00296.59	C
ATOM	4734	CD2	LEU	637	43.042	134.021	69.134	1.00296.59	C
ATOM	4735	C	LEU	637	44.315	131.923	72.015	1.00296.59	C
ATOM	4736	O	LEU	637	44.522	131.953	73.227	1.00296.59	O
ATOM	4737	N	GLU	638	45.313	131.790	71.118	1.00253.05	N
ATOM	4738	CA	GLU	638	46.668	131.747	71.581	1.00253.05	C
ATOM	4739	CB	GLU	638	47.583	130.647	71.012	1.00253.05	C
ATOM	4740	CG	GLU	638	47.590	129.294	71.712	1.00253.05	C
ATOM	4741	CD	GLU	638	49.028	128.804	71.538	1.00253.05	C
ATOM	4742	OE1	GLU	638	49.937	129.599	71.896	1.00253.05	O
ATOM	4743	OE2	GLU	638	49.257	127.667	71.046	1.00253.05	O
ATOM	4744	C	GLU	638	47.392	132.972	71.158	1.00253.05	C
ATOM	4745	O	GLU	638	47.270	133.443	70.028	1.00253.05	O
ATOM	4746	N	ASN	639	48.153	133.527	72.113	1.00245.15	N
ATOM	4747	CA	ASN	639	49.113	134.550	71.857	1.00245.15	C
ATOM	4748	CB	ASN	639	48.666	135.959	72.282	1.00245.15	C
ATOM	4749	CG	ASN	639	49.534	136.964	71.533	1.00245.15	C
ATOM	4750	OD1	ASN	639	50.755	136.985	71.680	1.00245.15	O
ATOM	4751	ND2	ASN	639	48.884	137.814	70.693	1.00245.15	N
ATOM	4752	C	ASN	639	50.225	134.106	72.745	1.00245.15	C
ATOM	4753	O	ASN	639	50.020	133.942	73.946	1.00245.15	O
ATOM	4754	N	ALA	640	51.433	133.871	72.202	1.00287.43	N
ATOM	4755	CA	ALA	640	52.387	133.287	73.095	1.00287.43	C
ATOM	4756	CB	ALA	640	52.820	131.870	72.680	1.00287.43	C
ATOM	4757	C	ALA	640	53.621	134.114	73.174	1.00287.43	C
ATOM	4758	O	ALA	640	54.086	134.683	72.188	1.00287.43	O
ATOM	4759	N	ALA	641	54.165	134.202	74.402	1.00269.03	N
ATOM	4760	CA	ALA	641	55.402	134.873	74.651	1.00269.03	C
ATOM	4761	CB	ALA	641	55.237	136.230	75.355	1.00269.03	C
ATOM	4762	C	ALA	641	56.140	133.978	75.589	1.00269.03	C
ATOM	4763	O	ALA	641	55.542	133.381	76.483	1.00269.03	O
ATOM	4764	N	ASP	642	57.463	133.838	75.397	1.00 89.57	N
ATOM	4765	CA	ASP	642	58.200	132.972	76.266	1.00 89.57	C
ATOM	4766	CB	ASP	642	59.676	132.817	75.861	1.00 89.57	C
ATOM	4767	CG	ASP	642	59.733	131.896	74.651	1.00 89.57	C
ATOM	4768	OD1	ASP	642	58.958	130.903	74.631	1.00 89.57	O
ATOM	4769	OD2	ASP	642	60.546	132.173	73.729	1.00 89.57	O
ATOM	4770	C	ASP	642	58.165	133.534	77.647	1.00 89.57	C
ATOM	4771	O	ASP	642	57.894	132.817	78.609	1.00 89.57	O
ATOM	4772	N	GLU	643	58.413	134.849	77.785	1.00242.91	N
ATOM	4773	CA	GLU	643	58.448	135.396	79.108	1.00242.91	C
ATOM	4774	CB	GLU	643	59.849	135.872	79.523	1.00242.91	C
ATOM	4775	CG	GLU	643	60.855	134.732	79.693	1.00242.91	C
ATOM	4776	CD	GLU	643	62.235	135.355	79.846	1.00242.91	C
ATOM	4777	OE1	GLU	643	62.372	136.566	79.527	1.00242.91	O
ATOM	4778	OE2	GLU	643	63.170	134.630	80.278	1.00242.91	O

ATOM	4779	C	GLU	643	57.553	136.586	79.161	1.00242.91	C
ATOM	4780	O	GLU	643	57.448	137.350	78.203	1.00242.91	O
ATOM	4781	N	SER	644	56.854	136.746	80.300	1.00240.33	N
ATOM	4782	CA	SER	644	56.019	137.890	80.503	1.00240.33	C
ATOM	4783	CB	SER	644	54.669	137.802	79.770	1.00240.33	C
ATOM	4784	OG	SER	644	54.878	137.769	78.365	1.00240.33	O
ATOM	4785	C	SER	644	55.730	137.933	81.967	1.00240.33	C
ATOM	4786	O	SER	644	55.873	136.927	82.660	1.00240.33	O
ATOM	4787	N	LYS	645	55.341	139.111	82.493	1.00233.81	N
ATOM	4788	CA	LYS	645	54.984	139.141	83.881	1.00233.81	C
ATOM	4789	CB	LYS	645	54.916	140.540	84.528	1.00233.81	C
ATOM	4790	CG	LYS	645	56.270	141.116	84.957	1.00233.81	C
ATOM	4791	CD	LYS	645	56.162	142.509	85.586	1.00233.81	C
ATOM	4792	CE	LYS	645	57.440	142.984	86.284	1.00233.81	C
ATOM	4793	NZ	LYS	645	58.326	143.672	85.320	1.00233.81	N
ATOM	4794	C	LYS	645	53.622	138.546	83.964	1.00233.81	C
ATOM	4795	O	LYS	645	52.857	138.588	83.004	1.00233.81	O
ATOM	4796	N	SER	646	53.286	137.946	85.122	1.00169.84	N
ATOM	4797	CA	SER	646	51.993	137.342	85.227	1.00169.84	C
ATOM	4798	CB	SER	646	52.015	135.942	85.861	1.00169.84	C
ATOM	4799	OG	SER	646	50.699	135.415	85.927	1.00169.84	O
ATOM	4800	C	SER	646	51.149	138.212	86.098	1.00169.84	C
ATOM	4801	O	SER	646	51.620	138.772	87.084	1.00169.84	O
ATOM	4802	N	GLU	647	49.865	138.359	85.718	1.00283.43	N
ATOM	4803	CA	GLU	647	48.949	139.149	86.485	1.00283.43	C
ATOM	4804	CB	GLU	647	48.845	140.617	86.036	1.00283.43	C
ATOM	4805	CG	GLU	647	48.381	140.784	84.589	1.00283.43	C
ATOM	4806	CD	GLU	647	49.608	140.694	83.696	1.00283.43	C
ATOM	4807	OE1	GLU	647	50.710	141.078	84.172	1.00283.43	O
ATOM	4808	OE2	GLU	647	49.461	140.254	82.524	1.00283.43	O
ATOM	4809	C	GLU	647	47.597	138.541	86.307	1.00283.43	C
ATOM	4810	O	GLU	647	47.447	137.531	85.621	1.00283.43	O
ATOM	4811	N	ILE	648	46.576	139.146	86.945	1.00148.82	N
ATOM	4812	CA	ILE	648	45.229	138.664	86.839	1.00148.82	C
ATOM	4813	CB	ILE	648	44.184	139.547	87.463	1.00148.82	C
ATOM	4814	CG1	ILE	648	44.122	140.910	86.753	1.00148.82	C
ATOM	4815	CG2	ILE	648	44.465	139.631	88.972	1.00148.82	C
ATOM	4816	CD1	ILE	648	42.883	141.730	87.115	1.00148.82	C
ATOM	4817	C	ILE	648	44.908	138.545	85.390	1.00148.82	C
ATOM	4818	O	ILE	648	45.494	139.232	84.554	1.00148.82	O
ATOM	4819	N	ASP	649	43.975	137.633	85.059	1.00218.63	N
ATOM	4820	CA	ASP	649	43.648	137.379	83.689	1.00218.63	C
ATOM	4821	CB	ASP	649	42.475	136.404	83.488	1.00218.63	C
ATOM	4822	CG	ASP	649	41.219	137.056	84.047	1.00218.63	C

ATOM	4853	SD	MET	653	40.337	133.451	81.566	1.00370.28	S
ATOM	4854	CE	MET	653	40.385	131.734	82.157	1.00370.28	C
ATOM	4855	C	MET	653	41.876	132.992	77.225	1.00370.28	C
ATOM	4856	O	MET	653	41.124	133.332	76.314	1.00370.28	O
ATOM	4857	N	SER	654	42.116	131.696	77.502	1.00165.59	N
ATOM	4858	CA	SER	654	41.380	130.744	76.730	1.00165.59	C
ATOM	4859	CB	SER	654	41.892	130.604	75.288	1.00165.59	C
ATOM	4860	OG	SER	654	43.204	130.060	75.290	1.00165.59	O
ATOM	4861	C	SER	654	41.486	129.394	77.361	1.00165.59	C
ATOM	4862	O	SER	654	42.552	128.995	77.826	1.00165.59	O
ATOM	4863	N	SER	655	40.338	128.687	77.403	1.00205.16	N
ATOM	4864	CA	SER	655	40.192	127.321	77.826	1.00205.16	C
ATOM	4865	CB	SER	655	40.835	126.963	79.181	1.00205.16	C
ATOM	4866	OG	SER	655	42.233	126.756	79.044	1.00205.16	O
ATOM	4867	C	SER	655	38.727	127.094	77.987	1.00205.16	C
ATOM	4868	O	SER	655	38.068	127.814	78.735	1.00205.16	O
ATOM	4869	N	ASN	656	38.170	126.085	77.291	1.00175.11	N
ATOM	4870	CA	ASN	656	36.771	125.827	77.461	1.00175.11	C
ATOM	4871	CB	ASN	656	35.904	126.390	76.319	1.00175.11	C
ATOM	4872	CG	ASN	656	35.957	127.913	76.380	1.00175.11	C
ATOM	4873	OD1	ASN	656	35.987	128.506	77.458	1.00175.11	O
ATOM	4874	ND2	ASN	656	35.965	128.569	75.188	1.00175.11	N
ATOM	4875	C	ASN	656	36.591	124.344	77.474	1.00175.11	C
ATOM	4876	O	ASN	656	36.942	123.663	76.511	1.00175.11	O
ATOM	4877	N	ASP	657	36.031	123.799	78.572	1.00193.86	N
ATOM	4878	CA	ASP	657	35.844	122.380	78.634	1.00193.86	C
ATOM	4879	CB	ASP	657	36.027	121.771	80.036	1.00193.86	C
ATOM	4880	CG	ASP	657	37.503	121.820	80.395	1.00193.86	C
ATOM	4881	OD1	ASP	657	38.225	122.669	79.808	1.00193.86	O
ATOM	4882	OD2	ASP	657	37.930	121.002	81.254	1.00193.86	O
ATOM	4883	C	ASP	657	34.450	122.055	78.215	1.00193.86	C
ATOM	4884	O	ASP	657	33.538	122.870	78.343	1.00193.86	O
ATOM	4885	N	SER	658	34.272	120.840	77.660	1.00171.37	N
ATOM	4886	CA	SER	658	32.974	120.350	77.305	1.00171.37	C
ATOM	4887	CB	SER	658	32.695	120.365	75.793	1.00171.37	C
ATOM	4888	OG	SER	658	31.428	119.781	75.528	1.00171.37	O
ATOM	4889	C	SER	658	32.952	118.916	77.712	1.00171.37	C
ATOM	4890	O	SER	658	33.816	118.140	77.307	1.00171.37	O
ATOM	4891	N	ARG	659	31.970	118.514	78.539	1.00249.89	N
ATOM	4892	CA	ARG	659	31.968	117.130	78.890	1.00249.89	C
ATOM	4893	CB	ARG	659	32.833	116.838	80.127	1.00249.89	C
ATOM	4894	CG	ARG	659	33.072	115.352	80.386	1.00249.89	C
ATOM	4895	CD	ARG	659	34.278	115.093	81.289	1.00249.89	C
ATOM	4896	NE	ARG	659	35.482	115.548	80.537	1.00249.89	N
ATOM	4897								

ATOM	4927	CD1	ILE	663	23.182	110.085	76.022	1.00108.85	C
ATOM	4928	C	ILE	663	27.542	109.185	75.571	1.00108.85	C
ATOM	4929	O	ILE	663	28.566	109.866	75.578	1.00108.85	O
ATOM	4930	N	ARG	664	27.085	108.613	74.442	1.00210.21	N
ATOM	4931	CA	ARG	664	27.856	108.869	73.265	1.00210.21	C
ATOM	4932	CB	ARG	664	27.901	107.676	72.293	1.00210.21	C
ATOM	4933	CG	ARG	664	28.726	107.957	71.035	1.00210.21	C
ATOM	4934	CD	ARG	664	29.099	106.709	70.228	1.00210.21	C
ATOM	4935	NE	ARG	664	27.854	105.939	69.953	1.00210.21	N
ATOM	4936	CZ	ARG	664	27.578	104.807	70.666	1.00210.21	C
ATOM	4937	NH1	ARG	664	28.459	104.359	71.607	1.00210.21	N
ATOM	4938	NH2	ARG	664	26.424	104.117	70.428	1.00210.21	N
ATOM	4939	C	ARG	664	27.248	110.034	72.555	1.00210.21	C
ATOM	4940	O	ARG	664	26.822	109.916	71.406	1.00210.21	O
ATOM	4941	N	LYS	665	27.213	111.191	73.250	1.00278.31	N
ATOM	4942	CA	LYS	665	26.750	112.450	72.739	1.00278.31	C
ATOM	4943	CB	LYS	665	27.790	113.244	71.925	1.00278.31	C
ATOM	4944	CG	LYS	665	28.875	113.916	72.773	1.00278.31	C
ATOM	4945	CD	LYS	665	29.983	112.981	73.258	1.00278.31	C
ATOM	4946	CE	LYS	665	31.206	112.989	72.336	1.00278.31	C
ATOM	4947	NZ	LYS	665	32.300	112.185	72.923	1.00278.31	N
ATOM	4948	C	LYS	665	25.530	112.274	71.898	1.00278.31	C
ATOM	4949	O	LYS	665	25.519	112.674	70.735	1.00278.31	O
ATOM	4950	N	ARG	666	24.460	111.672	72.445	1.00287.02	N
ATOM	4951	CA	ARG	666	23.307	111.522	71.610	1.00287.02	C
ATOM	4952	CB	ARG	666	22.551	110.202	71.829	1.00287.02	C
ATOM	4953	CG	ARG	666	23.339	108.974	71.360	1.00287.02	C
ATOM	4954	CD	ARG	666	22.932	108.462	69.975	1.00287.02	C
ATOM	4955	NE	ARG	666	23.321	109.490	68.969	1.00287.02	N
ATOM	4956	CZ	ARG	666	24.590	109.504	68.465	1.00287.02	C
ATOM	4957	NH1	ARG	666	25.509	108.600	68.911	1.00287.02	N
ATOM	4958	NH2	ARG	666	24.940	110.424	67.519	1.00287.02	N
ATOM	4959	C	ARG	666	22.387	112.659	71.908	1.00287.02	C
ATOM	4960	O	ARG	666	22.012	112.892	73.056	1.00287.02	O
ATOM	4961	N	SER	667	22.013	113.412	70.856	1.00207.79	N
ATOM	4962	CA	SER	667	21.162	114.551	71.025	1.00207.79	C
ATOM	4963	CB	SER	667	21.899	115.796	71.547	1.00207.79	C
ATOM	4964	OG	SER	667	22.389	115.555	72.858	1.00207.79	O
ATOM	4965	C	SER	667	20.610	114.881	69.678	1.00207.79	C
ATOM	4966	O	SER	667	20.494	114.011	68.816	1.00207.79	O
ATOM	4967	N	THR	668	20.233	116.157	69.468	1.00192.49	N
ATOM	4968	CA	THR	668	19.693	116.536	68.197	1.00192.49	C
ATOM	4969	CB	THR	668	19.400	118.006	68.083	1.00192.49	C
ATOM	4970	OG1	THR	668	18.466	118.402	69.077	1.00192.49	O

ATOM	5001	O	SER	671	23.538	118.322	57.912	1.00192.09	O
ATOM	5002	N	VAL	672	25.587	117.457	57.520	1.0068.54	N
ATOM	5003	CA	VAL	672	25.853	118.392	56.471	1.0068.54	C
ATOM	5004	CB	VAL	672	27.233	118.274	55.892	1.0068.54	C
ATOM	5005	CG1	VAL	672	27.352	119.249	54.708	1.0068.54	C
ATOM	5006	CG2	VAL	672	28.260	118.520	57.010	1.0068.54	C
ATOM	5007	C	VAL	672	24.879	118.077	55.390	1.0068.54	C
ATOM	5008	O	VAL	672	24.448	116.934	55.250	1.0068.54	O
ATOM	5009	N	ARG	673	24.480	119.096	54.606	1.00224.45	N
ATOM	5010	CA	ARG	673	23.516	118.816	53.590	1.00224.45	C
ATOM	5011	CB	ARG	673	23.040	120.047	52.796	1.00224.45	C
ATOM	5012	CG	ARG	673	24.150	120.816	52.077	1.00224.45	C
ATOM	5013	CD	ARG	673	23.607	121.830	51.065	1.00224.45	C
ATOM	5014	NE	ARG	673	24.746	122.660	50.583	1.00224.45	N
ATOM	5015	CZ	ARG	673	24.897	123.937	51.044	1.00224.45	C
ATOM	5016	NH1	ARG	673	23.987	124.459	51.917	1.00224.45	N
ATOM	5017	NH2	ARG	673	25.950	124.695	50.622	1.00224.45	N
ATOM	5018	C	ARG	673	24.125	117.848	52.638	1.00224.45	C
ATOM	5019	O	ARG	673	25.292	117.955	52.265	1.00224.45	O
ATOM	5020	N	GLY	674	23.318	116.847	52.248	1.00103.81	N
ATOM	5021	CA	GLY	674	23.726	115.818	51.344	1.00103.81	C
ATOM	5022	C	GLY	674	22.943	114.622	51.757	1.00103.81	C
ATOM	5023	O	GLY	674	22.802	114.348	52.948	1.00103.81	O
ATOM	5024	N	SER	675	22.414	113.864	50.780	1.00127.97	N
ATOM	5025	CA	SER	675	21.619	112.740	51.162	1.00127.97	C
ATOM	5026	CB	SER	675	20.690	112.222	50.049	1.00127.97	C
ATOM	5027	OG	SER	675	21.456	111.701	48.972	1.00127.97	O
ATOM	5028	C	SER	675	22.530	111.629	51.559	1.00127.97	C
ATOM	5029	O	SER	675	23.541	111.364	50.911	1.00127.97	O
ATOM	5030	N	GLN	676	22.178	110.966	52.672	1.00280.46	N
ATOM	5031	CA	GLN	676	22.886	109.830	53.175	1.00280.46	C
ATOM	5032	CB	GLN	676	24.206	110.153	53.904	1.00280.46	C
ATOM	5033	CG	GLN	676	25.030	108.895	54.208	1.00280.46	C
ATOM	5034	CD	GLN	676	26.323	109.281	54.920	1.00280.46	C
ATOM	5035	OE1	GLN	676	26.308	109.771	56.046	1.00280.46	O
ATOM	5036	NE2	GLN	676	27.480	109.043	54.243	1.00280.46	N
ATOM	5037	C	GLN	676	21.934	109.240	54.154	1.00280.46	C
ATOM	5038	O	GLN	676	20.755	109.592	54.144	1.00280.46	O
ATOM	5039	N	ALA	677	22.383	108.302	55.007	1.00208.23	N
ATOM	5040	CA	ALA	677	21.415	107.815	55.939	1.00208.23	C
ATOM	5041	CB	ALA	677	21.934	106.693	56.856	1.00208.23	C
ATOM	5042	C	ALA	677	21.050	108.979	56.797	1.00208.23	C
ATOM	5043	O	ALA	677	21.915	109.641	57.368	1.00208.23	O
ATOM	5044	N	GLN	678	19.739	109.271	56.889	1.00108.30	N
ATOM									

ATOM	5075	CG	LYS	681	21.224	102.863	60.555	1.00238.70	C
ATOM	5076	CD	LYS	681	20.715	102.090	61.772	1.00238.70	C
ATOM	5077	CE	LYS	681	20.753	100.574	61.565	1.00238.70	C
ATOM	5078	NZ	LYS	681	20.273	99.879	62.780	1.00238.70	N
ATOM	5079	C	LYS	681	24.947	103.161	61.336	1.00238.70	C
ATOM	5080	O	LYS	681	25.652	103.619	60.439	1.00238.70	O
ATOM	5081	N	LEU	682	25.414	102.286	62.243	1.00226.87	N
ATOM	5082	CA	LEU	682	26.763	101.843	62.108	1.00226.87	C
ATOM	5083	CB	LEU	682	27.352	101.207	63.377	1.00226.87	C
ATOM	5084	CG	LEU	682	27.504	102.176	64.560	1.00226.87	C
ATOM	5085	CD1	LEU	682	26.140	102.704	65.032	1.00226.87	C
ATOM	5086	CD2	LEU	682	28.321	101.534	65.693	1.00226.87	C
ATOM	5087	C	LEU	682	26.721	100.763	61.092	1.00226.87	C
ATOM	5088	O	LEU	682	26.021	99.767	61.263	1.00226.87	O
ATOM	5089	N	SER	683	27.461	100.939	59.987	1.00160.19	N
ATOM	5090	CA	SER	683	27.457	99.880	59.035	1.00160.19	C
ATOM	5091	CB	SER	683	27.476	100.360	57.576	1.00160.19	C
ATOM	5092	OG	SER	683	26.296	101.099	57.298	1.00160.19	O
ATOM	5093	C	SER	683	28.713	99.133	59.293	1.00160.19	C
ATOM	5094	O	SER	683	29.812	99.664	59.144	1.00160.19	O
ATOM	5095	N	THR	684	28.570	97.867	59.717	1.00168.23	N
ATOM	5096	CA	THR	684	29.728	97.086	60.001	1.00168.23	C
ATOM	5097	CB	THR	684	29.722	96.494	61.379	1.00168.23	C
ATOM	5098	OG1	THR	684	29.621	97.520	62.355	1.00168.23	O
ATOM	5099	CG2	THR	684	31.024	95.701	61.577	1.00168.23	C
ATOM	5100	C	THR	684	29.704	95.950	59.044	1.00168.23	C
ATOM	5101	O	THR	684	28.687	95.276	58.890	1.00168.23	O
ATOM	5102	N	LYS	685	30.832	95.715	58.355	1.00275.76	N
ATOM	5103	CA	LYS	685	30.848	94.614	57.447	1.00275.76	C
ATOM	5104	CB	LYS	685	32.086	94.602	56.531	1.00275.76	C
ATOM	5105	CG	LYS	685	31.901	95.455	55.271	1.00275.76	C
ATOM	5106	CD	LYS	685	31.582	96.929	55.535	1.00275.76	C
ATOM	5107	CE	LYS	685	32.665	97.913	55.089	1.00275.76	C
ATOM	5108	NZ	LYS	685	32.109	99.286	55.077	1.00275.76	N
ATOM	5109	C	LYS	685	30.813	93.369	58.265	1.00275.76	C
ATOM	5110	O	LYS	685	31.506	93.251	59.274	1.00275.76	O
ATOM	5111	N	GLU	686	29.956	92.415	57.855	1.00281.31	N
ATOM	5112	CA	GLU	686	29.830	91.172	58.554	1.00281.31	C
ATOM	5113	CB	GLU	686	28.572	91.076	59.436	1.00281.31	C
ATOM	5114	CG	GLU	686	28.587	92.032	60.631	1.00281.31	C
ATOM	5115	CD	GLU	686	29.640	91.545	61.616	1.00281.31	C
ATOM	5116	OE1	GLU	686	29.997	90.338	61.555	1.00281.31	O
ATOM	5117	OE2	GLU	686	30.102	92.374	62.445	1.00281.31	O
ATOM	5118	C	GLU	686	29.719	90.108	57.514	1.00281.31	C
ATOM	5119	O	GLU	686	29.609	90.398	56.324	1.00281.31	O
ATOM	5120	N	ALA	687	29.775	88.833	57.942	1.00247.64	N
ATOM	5121	CA	ALA	687	29.656	87.754	57.009	1.00247.64	C
ATOM	5122	CB	ALA	687	30.689	86.634	57.225	1.00247.64	C
ATOM	5123	C	ALA	687	28.303	87.159	57.216	1.00247.64	C
ATOM	5124	O	ALA	687	27.779	87.161	58.328	1.00247.64	O
ATOM	5125	N	LEU	688	27.684	86.652	56.134	1.00242.14	N
ATOM	5126	CA	LEU	688	26.380	86.079	56.286	1.00242.14	C
ATOM	5127	CB	LEU	688	25.548	86.094	54.994	1.00242.14	C
ATOM	5128	CG	LEU	688	25.307	87.502	54.426	1.00242.14	C
ATOM	5129	CD1	LEU	688	24.494	88.361	55.406	1.00242.14	C
ATOM	5130	CD2	LEU	688	26.625	88.161	53.987	1.00242.14	C
ATOM	5131	C	LEU	688	26.591	84.642	56.604	1.00242.14	C
ATOM	5132	O	LEU	688	27.136	83.899	55.791	1.00242.14	O
ATOM	5133	N	ASP	689	26.181	84.193	57.804	1.00231.17	N
ATOM	5134	CA	ASP	689	26.399	82.801	58.030	1.00231.17	C
ATOM	5135	CB	ASP	689	27.388	82.475	59.160	1.00231.17	C
ATOM	5136	CG	ASP	689	27.917	81.068	58.901	1.00231.17	C
ATOM	5137	OD1	ASP	689	27.095	80.151	58.638	1.00231.17	O
ATOM	5138	OD2	ASP	689	29.167	80.902	58.935	1.00231.17	O
ATOM	5139	C	ASP	689	25.089	82.168	58.351	1.00231.17	C
ATOM	5140	O	ASP	689	24.372	82.585	59.259	1.00231.17	O
ATOM	5141	N	GLU	690	24.758	81.123	57.580	1.00291.36	N
ATOM	5142	CA	GLU	690	23.551	80.375	57.727	1.00291.36	C
ATOM	5143	CB	GLU	690	23.231	79.956	59.167	1.00291.36	C
ATOM	5144	CG	GLU	690	24.076	78.799	59.687	1.00291.36	C
ATOM	5145	CD	GLU	690	23.295	78.224	60.854	1.00291.36	C
ATOM	5146	OE1	GLU	690	23.114	78.951	61.865	1.00291.36	O
ATOM	5147	OE2	GLU	690	22.848	77.051	60.736	1.00291.36	O
ATOM	5148	C	GLU	690	22.374	81.147	57.245	1.00291.36	C

ATOM	5149	O	GLU	690	21.565	81.635	58.034	1.00291.36	O
ATOM	5150	N	SER	691	22.258	81.260	55.911	1.00264.47	N
ATOM	5151	CA	SER	691	21.068	81.750	55.301	1.00264.47	C
ATOM	5152	CB	SER	691	21.242	83.109	54.592	1.00264.47	C
ATOM	5153	OG	SER	691	22.244	83.033	53.590	1.00264.47	O
ATOM	5154	C	SER	691	20.767	80.678	54.321	1.00264.47	C
ATOM	5155	O	SER	691	20.926	80.864	53.117	1.00264.47	O
ATOM	5156	N	ILE	692	20.388	79.488	54.840	1.00167.04	N
ATOM	5157	CA	ILE	692	20.033	78.423	53.959	1.00167.04	C
ATOM	5158	CB	ILE	692	21.039	77.303	53.879	1.00167.04	C
ATOM	5159	CG1	ILE	692	20.624	76.357	52.743	1.00167.04	C
ATOM	5160	CG2	ILE	692	21.232	76.626	55.250	1.00167.04	C
ATOM	5161	CD1	ILE	692	21.721	75.385	52.322	1.00167.04	C
ATOM	5162	C	ILE	692	18.687	77.882	54.347	1.00167.04	C
ATOM	5163	O	ILE	692	18.541	77.080	55.267	1.00167.04	O
ATOM	5164	N	PRO	693	17.679	78.363	53.679	1.00133.25	N
ATOM	5165	CA	PRO	693	16.363	77.824	53.929	1.00133.25	C
ATOM	5166	CD	PRO	693	17.632	79.799	53.450	1.00133.25	C
ATOM	5167	CB	PRO	693	15.383	78.993	53.798	1.00133.25	C
ATOM	5168	CG	PRO	693	16.177	80.086	53.063	1.00133.25	C
ATOM	5169	C	PRO	693	16.032	76.660	53.032	1.00133.25	C
ATOM	5170	O	PRO	693	16.530	76.630	51.908	1.00133.25	O
ATOM	5171	N	PRO	694	15.275	75.691	53.495	1.00185.52	N
ATOM	5172	CA	PRO	694	14.843	74.650	52.589	1.00185.52	C
ATOM	5173	CD	PRO	694	15.585	75.154	54.811	1.00185.52	C
ATOM	5174	CB	PRO	694	14.719	73.374	53.420	1.00185.52	C
ATOM	5175	CG	PRO	694	15.620	73.629	54.638	1.00185.52	C
ATOM	5176	C	PRO	694	13.536	74.975	51.920	1.00185.52	C
ATOM	5177	O	PRO	694	12.552	75.149	52.639	1.00185.52	O
ATOM	5178	N	VAL	695	13.464	74.953	50.571	1.00 53.62	N
ATOM	5179	CA	VAL	695	12.201	75.157	49.914	1.00 53.62	C
ATOM	5180	CB	VAL	695	12.103	76.402	49.090	1.00 53.62	C
ATOM	5181	CG1	VAL	695	10.830	76.331	48.227	1.00 53.62	C
ATOM	5182	CG2	VAL	695	12.072	77.578	50.075	1.00 53.62	C
ATOM	5183	C	VAL	695	11.964	73.984	49.023	1.00 53.62	C
ATOM	5184	O	VAL	695	12.901	73.438	48.444	1.00 53.62	O
ATOM	5185	N	SER	696	10.686	73.560	48.923	1.00 89.75	N
ATOM	5186	CA	SER	696	10.332	72.408	48.146	1.00 89.75	C
ATOM	5187	CB	SER	696	9.031	71.711	48.606	1.00 89.75	C
ATOM	5188	OG	SER	696	7.908	72.544	48.354	1.00 89.75	O
ATOM	5189	C	SER	696	10.122	72.798	46.717	1.00 89.75	C
ATOM	5190	O	SER	696	9.860	73.953	46.388	1.00 89.75	O
ATOM	5191	N	PHE	697	10.245	71.782	45.842	1.00151.07	N
ATOM	5192	CA	PHE	697	10.051	71.796	44.419	1.00151.07	C
ATOM	5193	CB	PHE	697	10.351	70.401	43.862	1.00151.07	C
ATOM	5194	CG	PHE	697	10.571	70.385	42.394	1.00151.07	C
ATOM	5195	CD1	PHE	697	9.538	70.272	41.487	1.00151.07	C
ATOM	5196	CD2	PHE	697	11.862	70.461	41.936	1.00151.07	C
ATOM	5197	CE1	PHE	697	9.810	70.242	40.138	1.00151.07	C
ATOM	5198	CE2	PHE	697	12.136	70.427	40.594	1.00151.07	C
ATOM	5199	CZ	PHE	697	11.110	70.318	39.690	1.00151.07	C
ATOM	5200	C	PHE	697	8.593	72.026	44.217	1.00151.07	C
ATOM	5201	O	PHE	697	8.158	72.710	43.291	1.00151.07	O
ATOM	5202	N	TRP	698	7.798	71.403	45.103	1.00 97.74	N
ATOM	5203	CA	TRP	698	6.372	71.430	45.008	1.00 97.74	C
ATOM	5204	CB	TRP	698	5.710	70.557	46.106	1.00 97.74	C
ATOM	5205	CG	TRP	698	6.207	69.123	46.187	1.00 97.74	C
ATOM	5206	CD2	TRP	698	6.955	68.462	45.155	1.00 97.74	C
ATOM	5207	CD1	TRP	698	6.152	68.247	47.236	1.00 97.74	C
ATOM	5208	NE1	TRP	698	6.792	67.076	46.907	1.00 97.74	N
ATOM	5209	CE2	TRP	698	7.303	67.198	45.629	1.00 97.74	C
ATOM	5210	CE3	TRP	698	7.335	68.880	43.909	1.00 97.74	C
ATOM	5211	CZ2	TRP	698	8.043	66.336	44.873	1.00 97.74	C
ATOM	5212	CZ3	TRP	698	8.064	68.005	43.139	1.00 97.74	C
ATOM	5213	CH2	TRP	698	8.411	66.758	43.613	1.00 97.74	C
ATOM	5214	C	TRP	698	5.881	72.831	45.188	1.00 97.74	C
ATOM	5215	O	TRP	698	5.107	73.341	44.379	1.00 97.74	O
ATOM	5216	N	ARG	699	6.361	73.490	46.260	1.00173.13	N
ATOM	5217	CA	ARG	699	5.932	74.786	46.706	1.00173.13	C
ATOM	5218	CB	ARG	699	6.612	75.087	48.058	1.00173.13	C
ATOM	5219	CG	ARG	699	5.872	76.006	49.028	1.00173.13	C
ATOM	5220	CD	ARG	699	6.378	77.437	48.996	1.00173.13	C
ATOM	5221	NE	ARG	699	5.306	78.251	48.378	1.00173.13	N
ATOM	5222	CZ	ARG	699	4.719	79.202	49.155	1.00173.13	C

ATOM	5223	NH1	ARG	699	5.152	79.351	50.440	1.00173.13	N
ATOM	5224	NH2	ARG	699	3.725	79.986	48.652	1.00173.13	N
ATOM	5225	C	ARG	699	6.279	75.832	45.674	1.00173.13	C
ATOM	5226	O	ARG	699	5.473	76.711	45.374	1.00173.13	O
ATOM	5227	N	ILE	700	7.484	75.751	45.075	1.00102.09	N
ATOM	5228	CA	ILE	700	7.901	76.743	44.117	1.00102.09	C
ATOM	5229	CB	ILE	700	9.318	76.557	43.647	1.00102.09	C
ATOM	5230	CG1	ILE	700	10.305	76.664	44.825	1.00102.09	C
ATOM	5231	CG2	ILE	700	9.585	77.606	42.553	1.00102.09	C
ATOM	5232	CD1	ILE	700	10.345	78.045	45.477	1.00102.09	C
ATOM	5233	C	ILE	700	6.995	76.702	42.919	1.00102.09	C
ATOM	5234	O	ILE	700	6.601	77.737	42.382	1.00102.09	O
ATOM	5235	N	MET	701	6.611	75.491	42.486	1.00125.06	N
ATOM	5236	CA	MET	701	5.814	75.316	41.304	1.00125.06	C
ATOM	5237	CB	MET	701	5.572	73.822	41.011	1.00125.06	C
ATOM	5238	CG	MET	701	5.299	73.492	39.541	1.00125.06	C
ATOM	5239	SD	MET	701	3.743	74.128	38.860	1.00125.06	S
ATOM	5240	CE	MET	701	3.989	73.315	37.255	1.00125.06	C
ATOM	5241	C	MET	701	4.490	76.011	41.496	1.00125.06	C
ATOM	5242	O	MET	701	3.921	76.575	40.564	1.00125.06	O
ATOM	5243	N	LYS	702	3.971	76.014	42.732	1.00123.46	N
ATOM	5244	CA	LYS	702	2.691	76.591	43.045	1.00123.46	C
ATOM	5245	CB	LYS	702	2.376	76.492	44.548	1.00123.46	C
ATOM	5246	CG	LYS	702	0.960	76.917	44.939	1.00123.46	C
ATOM	5247	CD	LYS	702	-0.120	75.980	44.399	1.00123.46	C
ATOM	5248	CE	LYS	702	-1.468	76.128	45.104	1.00123.46	C
ATOM	5249	NZ	LYS	702	-1.342	75.677	46.509	1.00123.46	N
ATOM	5250	C	LYS	702	2.694	78.050	42.687	1.00123.46	C
ATOM	5251	O	LYS	702	1.654	78.616	42.351	1.00123.46	O
ATOM	5252	N	LEU	703	3.867	78.704	42.753	1.00 91.04	N
ATOM	5253	CA	LEU	703	3.964	80.122	42.545	1.00 91.04	C
ATOM	5254	CB	LEU	703	5.389	80.666	42.743	1.00 91.04	C
ATOM	5255	CG	LEU	703	5.912	80.532	44.185	1.00 91.04	C
ATOM	5256	CD1	LEU	703	7.287	81.204	44.328	1.00 91.04	C
ATOM	5257	CD2	LEU	703	4.890	81.040	45.216	1.00 91.04	C
ATOM	5258	C	LEU	703	3.529	80.505	41.170	1.00 91.04	C
ATOM	5259	O	LEU	703	3.009	81.604	40.972	1.00 91.04	O
ATOM	5260	N	ASN	704	3.770	79.651	40.163	1.00128.63	N
ATOM	5261	CA	ASN	704	3.356	80.075	38.862	1.00128.63	C
ATOM	5262	CB	ASN	704	4.383	79.683	37.787	1.00128.63	C
ATOM	5263	CG	ASN	704	4.226	80.589	36.583	1.00128.63	C
ATOM	5264	OD1	ASN	704	3.170	81.179	36.365	1.00128.63	O
ATOM	5265	ND2	ASN	704	5.316	80.713	35.779	1.00128.63	N
ATOM	5266	C	ASN	704	2.044	79.423	38.542	1.00128.63	C
ATOM	5267	O	ASN	704	1.738	79.164	37.381	1.00128.63	O
ATOM	5268	N	LEU	705	1.212	79.195	39.578	1.00115.80	N
ATOM	5269	CA	LEU	705	-0.062	78.531	39.477	1.00115.80	C
ATOM	5270	CB	LEU	705	-0.634	78.210	40.878	1.00115.80	C
ATOM	5271	CG	LEU	705	-1.886	77.300	40.962	1.00115.80	C
ATOM	5272	CD1	LEU	705	-2.283	77.092	42.432	1.00115.80	C
ATOM	5273	CD2	LEU	705	-3.082	77.805	40.139	1.00115.80	C
ATOM	5274	C	LEU	705	-1.052	79.376	38.715	1.00115.80	C
ATOM	5275	O	LEU	705	-1.842	78.856	37.932	1.00115.80	O
ATOM	5276	N	THR	706	-1.032	80.707	38.905	1.00 78.94	N
ATOM	5277	CA	THR	706	-2.032	81.569	38.324	1.00 78.94	C
ATOM	5278	CB	THR	706	-1.880	83.001	38.747	1.00 78.94	C
ATOM	5279	OG1	THR	706	-0.615	83.504	38.346	1.00 78.94	O
ATOM	5280	CG2	THR	706	-2.024	83.076	40.277	1.00 78.94	C
ATOM	5281	C	THR	706	-1.989	81.511	36.824	1.00 78.94	C
ATOM	5282	O	THR	706	-2.990	81.750	36.156	1.00 78.94	O
ATOM	5283	N	GLU	707	-0.792	81.284	36.276	1.00187.79	N
ATOM	5284	CA	GLU	707	-0.419	81.154	34.894	1.00187.79	C
ATOM	5285	CB	GLU	707	1.047	81.522	34.611	1.00187.79	C
ATOM	5286	CG	GLU	707	1.277	83.031	34.486	1.00187.79	C
ATOM	5287	CD	GLU	707	0.969	83.694	35.820	1.00187.79	C
ATOM	5288	OE1	GLU	707	1.479	83.209	36.865	1.00187.79	O
ATOM	5289	OE2	GLU	707	0.211	84.700	35.809	1.00187.79	O
ATOM	5290	C	GLU	707	-0.669	79.794	34.324	1.00187.79	C
ATOM	5291	O	GLU	707	-0.060	79.477	33.306	1.00187.79	O
ATOM	5292	N	TRP	708	-1.463	78.924	34.979	1.00113.52	N
ATOM	5293	CA	TRP	708	-1.539	77.540	34.588	1.00113.52	C
ATOM	5294	CB	TRP	708	-2.598	76.702	35.337	1.00113.52	C
ATOM	5295	CG	TRP	708	-4.025	76.843	34.862	1.00113.52	C
ATOM	5296	CD2	TRP	708	-5.044	77.638	35.488	1.00113.52	C

ATOM	5297	CD1	TRP	708	-4.618	76.226	33.799	1.00113.52	C
ATOM	5298	NE1	TRP	708	-5.940	76.587	33.721	1.00113.52	N
ATOM	5299	CE2	TRP	708	-6.218	77.455	34.754	1.00113.52	C
ATOM	5300	CE3	TRP	708	-5.009	78.449	36.586	1.00113.52	C
ATOM	5301	CZ2	TRP	708	-7.377	78.083	35.108	1.00113.52	C
ATOM	5302	CZ3	TRP	708	-6.180	79.084	36.936	1.00113.52	C
ATOM	5303	CH2	TRP	708	-7.340	78.905	36.212	1.00113.52	C
ATOM	5304	C	TRP	708	-1.805	77.370	33.112	1.00113.52	C
ATOM	5305	O	TRP	708	-1.254	76.422	32.556	1.00113.52	O
ATOM	5306	N	PRO	709	-2.583	78.142	32.396	1.00154.00	N
ATOM	5307	CA	PRO	709	-2.780	77.895	30.990	1.00154.00	C
ATOM	5308	CD	PRO	709	-3.513	79.120	32.929	1.00154.00	C
ATOM	5309	CB	PRO	709	-3.829	78.911	30.528	1.00154.00	C
ATOM	5310	CG	PRO	709	-3.934	79.925	31.687	1.00154.00	C
ATOM	5311	C	PRO	709	-1.484	77.927	30.231	1.00154.00	C
ATOM	5312	O	PRO	709	-1.368	77.227	29.226	1.00154.00	O
ATOM	5313	N	TYR	710	-0.505	78.736	30.670	1.00 88.44	N
ATOM	5314	CA	TYR	710	0.782	78.771	30.040	1.00 88.44	C
ATOM	5315	CB	TYR	710	1.727	79.851	30.602	1.00 88.44	C
ATOM	5316	CG	TYR	710	1.395	81.176	30.003	1.00 88.44	C
ATOM	5317	CD1	TYR	710	0.306	81.911	30.411	1.00 88.44	C
ATOM	5318	CD2	TYR	710	2.214	81.691	29.024	1.00 88.44	C
ATOM	5319	CE1	TYR	710	0.039	83.134	29.835	1.00 88.44	C
ATOM	5320	CE2	TYR	710	1.954	82.909	28.445	1.00 88.44	C
ATOM	5321	CZ	TYR	710	0.862	83.633	28.851	1.00 88.44	C
ATOM	5322	OH	TYR	710	0.594	84.885	28.257	1.00 88.44	O
ATOM	5323	C	TYR	710	1.473	77.449	30.228	1.00 88.44	C
ATOM	5324	O	TYR	710	2.184	76.971	29.346	1.00 88.44	O
ATOM	5325	N	PHE	711	1.329	76.844	31.417	1.00 77.81	N
ATOM	5326	CA	PHE	711	1.968	75.592	31.707	1.00 77.81	C
ATOM	5327	CB	PHE	711	1.924	75.205	33.195	1.00 77.81	C
ATOM	5328	CG	PHE	711	3.018	75.962	33.869	1.00 77.81	C
ATOM	5329	CD1	PHE	711	2.897	77.307	34.132	1.00 77.81	C
ATOM	5330	CD2	PHE	711	4.172	75.314	34.247	1.00 77.81	C
ATOM	5331	CE1	PHE	711	3.914	77.991	34.755	1.00 77.81	C
ATOM	5332	CE2	PHE	711	5.192	75.994	34.871	1.00 77.81	C
ATOM	5333	CZ	PHE	711	5.064	77.337	35.125	1.00 77.81	C
ATOM	5334	C	PHE	711	1.396	74.474	30.897	1.00 77.81	C
ATOM	5335	O	PHE	711	2.127	73.572	30.495	1.00 77.81	O
ATOM	5336	N	VAL	712	0.071	74.481	30.662	1.00 46.84	N
ATOM	5337	CA	VAL	712	-0.556	73.405	29.952	1.00 46.84	C
ATOM	5338	CB	VAL	712	-2.041	73.589	29.831	1.00 46.84	C
ATOM	5339	CG1	VAL	712	-2.618	72.422	29.012	1.00 46.84	C
ATOM	5340	CG2	VAL	712	-2.635	73.711	31.245	1.00 46.84	C
ATOM	5341	C	VAL	712	0.008	73.324	28.568	1.00 46.84	C
ATOM	5342	O	VAL	712	0.392	72.248	28.117	1.00 46.84	O
ATOM	5343	N	VAL	713	0.095	74.459	27.850	1.00117.68	N
ATOM	5344	CA	VAL	713	0.575	74.382	26.501	1.00117.68	C
ATOM	5345	CB	VAL	713	0.486	75.660	25.724	1.00117.68	C
ATOM	5346	CG1	VAL	713	-0.975	76.129	25.690	1.00117.68	C
ATOM	5347	CG2	VAL	713	1.469	76.665	26.318	1.00117.68	C
ATOM	5348	C	VAL	713	2.011	73.962	26.511	1.00117.68	C
ATOM	5349	O	VAL	713	2.426	73.179	25.666	1.00117.68	O
ATOM	5350	N	GLY	714	2.813	74.462	27.470	1.00 46.99	N
ATOM	5351	CA	GLY	714	4.216	74.163	27.525	1.00 46.99	C
ATOM	5352	C	GLY	714	4.428	72.693	27.728	1.00 46.99	C
ATOM	5353	O	GLY	714	5.411	72.139	27.238	1.00 46.99	O
ATOM	5354	N	VAL	715	3.568	72.029	28.527	1.00105.39	N
ATOM	5355	CA	VAL	715	3.758	70.619	28.718	1.00105.39	C
ATOM	5356	CB	VAL	715	2.903	70.009	29.798	1.00105.39	C
ATOM	5357	CG1	VAL	715	3.235	70.705	31.129	1.00105.39	C
ATOM	5358	CG2	VAL	715	1.422	70.061	29.399	1.00105.39	C
ATOM	5359	C	VAL	715	3.485	69.903	27.430	1.00105.39	C
ATOM	5360	O	VAL	715	4.263	69.047	27.016	1.00105.39	O
ATOM	5361	N	PHE	716	2.375	70.249	26.746	1.00 52.69	N
ATOM	5362	CA	PHE	716	2.031	69.590	25.518	1.00 52.69	C
ATOM	5363	CB	PHE	716	0.668	70.022	24.949	1.00 52.69	C
ATOM	5364	CG	PHE	716	-0.373	69.515	25.887	1.00 52.69	C
ATOM	5365	CD1	PHE	716	-0.687	68.177	25.921	1.00 52.69	C
ATOM	5366	CD2	PHE	716	-1.047	70.375	26.722	1.00 52.69	C
ATOM	5367	CE1	PHE	716	-1.647	67.703	26.784	1.00 52.69	C
ATOM	5368	CE2	PHE	716	-2.008	69.908	27.586	1.00 52.69	C
ATOM	5369	CZ	PHE	716	-2.310	68.569	27.620	1.00 52.69	C
ATOM	5370	C	PHE	716	3.084	69.900	24.500	1.00 52.69	C

ATOM	5371	O	PHE	716	3.510	69.024	23.751	1.00	52.69	O
ATOM	5372	N	CYS	717	3.528	71.168	24.442	1.00	102.81	N
ATOM	5373	CA	CYS	717	4.511	71.585	23.487	1.00	102.81	C
ATOM	5374	CB	CYS	717	4.749	73.108	23.445	1.00	102.81	C
ATOM	5375	SG	CYS	717	5.685	73.756	24.857	1.00	102.81	S
ATOM	5376	C	CYS	717	5.809	70.897	23.791	1.00	102.81	C
ATOM	5377	O	CYS	717	6.544	70.532	22.877	1.00	102.81	O
ATOM	5378	N	ALA	718	6.132	70.714	25.087	1.00	43.06	N
ATOM	5379	CA	ALA	718	7.344	70.058	25.500	1.00	43.06	C
ATOM	5380	CB	ALA	718	7.531	70.048	27.027	1.00	43.06	C
ATOM	5381	C	ALA	718	7.295	68.637	25.035	1.00	43.06	C
ATOM	5382	O	ALA	718	8.320	68.058	24.678	1.00	43.06	O
ATOM	5383	N	ILE	719	6.095	68.024	25.076	1.00	46.97	N
ATOM	5384	CA	ILE	719	5.917	66.666	24.649	1.00	46.97	C
ATOM	5385	CB	ILE	719	4.518	66.155	24.857	1.00	46.97	C
ATOM	5386	CG1	ILE	719	4.142	66.166	26.347	1.00	46.97	C
ATOM	5387	CG2	ILE	719	4.427	64.760	24.216	1.00	46.97	C
ATOM	5388	CD1	ILE	719	2.658	65.918	26.609	1.00	46.97	C
ATOM	5389	C	ILE	719	6.177	66.582	23.175	1.00	46.97	C
ATOM	5390	O	ILE	719	6.852	65.666	22.711	1.00	46.97	O
ATOM	5391	N	ILE	720	5.648	67.548	22.397	1.00	55.47	N
ATOM	5392	CA	ILE	720	5.758	67.488	20.966	1.00	55.47	C
ATOM	5393	CB	ILE	720	5.047	68.617	20.279	1.00	55.47	C
ATOM	5394	CG1	ILE	720	3.539	68.550	20.570	1.00	55.47	C
ATOM	5395	CG2	ILE	720	5.390	68.558	18.780	1.00	55.47	C
ATOM	5396	CD1	ILE	720	2.779	69.806	20.145	1.00	55.47	C
ATOM	5397	C	ILE	720	7.196	67.551	20.556	1.00	55.47	C
ATOM	5398	O	ILE	720	7.644	66.722	19.765	1.00	55.47	O
ATOM	5399	N	ASN	721	7.978	68.512	21.088	1.00	148.14	N
ATOM	5400	CA	ASN	721	9.343	68.559	20.656	1.00	148.14	C
ATOM	5401	CB	ASN	721	10.116	69.877	20.901	1.00	148.14	C
ATOM	5402	CG	ASN	721	10.269	70.263	22.355	1.00	148.14	C
ATOM	5403	OD1	ASN	721	9.613	69.725	23.244	1.00	148.14	O
ATOM	5404	ND2	ASN	721	11.160	71.263	22.590	1.00	148.14	N
ATOM	5405	C	ASN	721	10.062	67.347	21.154	1.00	148.14	C
ATOM	5406	O	ASN	721	11.044	66.920	20.551	1.00	148.14	O
ATOM	5407	N	GLY	722	9.608	66.777	22.287	1.00	49.22	N
ATOM	5408	CA	GLY	722	10.158	65.549	22.783	1.00	49.22	C
ATOM	5409	C	GLY	722	9.852	64.461	21.790	1.00	49.22	C
ATOM	5410	O	GLY	722	10.621	63.514	21.649	1.00	49.22	O
ATOM	5411	N	GLY	723	8.666	64.540	21.146	1.00	60.11	N
ATOM	5412	CA	GLY	723	8.147	63.615	20.165	1.00	60.11	C
ATOM	5413	C	GLY	723	8.886	63.673	18.854	1.00	60.11	C
ATOM	5414	O	GLY	723	8.923	62.692	18.116	1.00	60.11	O
ATOM	5415	N	LEU	724	9.433	64.846	18.489	1.00	84.37	N
ATOM	5416	CA	LEU	724	10.059	65.055	17.209	1.00	84.37	C
ATOM	5417	CB	LEU	724	10.536	66.503	17.027	1.00	84.37	C
ATOM	5418	CG	LEU	724	9.374	67.508	17.047	1.00	84.37	C
ATOM	5419	CD1	LEU	724	9.872	68.951	16.860	1.00	84.37	C
ATOM	5420	CD2	LEU	724	8.287	67.103	16.039	1.00	84.37	C
ATOM	5421	C	LEU	724	11.253	64.172	17.044	1.00	84.37	C
ATOM	5422	O	LEU	724	11.536	63.737	15.927	1.00	84.37	O
ATOM	5423	N	GLN	725	12.009	63.918	18.133	1.00	162.48	N
ATOM	5424	CA	GLN	725	13.197	63.120	18.012	1.00	162.48	C
ATOM	5425	CB	GLN	725	13.986	62.979	19.332	1.00	162.48	C
ATOM	5426	CG	GLN	725	14.755	64.232	19.738	1.00	162.48	C
ATOM	5427	CD	GLN	725	15.952	64.328	18.803	1.00	162.48	C
ATOM	5428	OE1	GLN	725	16.630	65.352	18.742	1.00	162.48	O
ATOM	5429	NE2	GLN	725	16.219	63.229	18.047	1.00	162.48	N
ATOM	5430	C	GLN	725	12.852	61.732	17.545	1.00	162.48	C
ATOM	5431	O	GLN	725	13.446	61.273	16.571	1.00	162.48	O
ATOM	5432	N	PRO	726	11.922	61.030	18.148	1.00	96.34	N
ATOM	5433	CA	PRO	726	11.590	59.709	17.680	1.00	96.34	C
ATOM	5434	CD	PRO	726	11.531	61.234	19.532	1.00	96.34	C
ATOM	5435	CB	PRO	726	10.770	59.058	18.798	1.00	96.34	C
ATOM	5436	CG	PRO	726	10.403	60.215	19.746	1.00	96.34	C
ATOM	5437	C	PRO	726	10.910	59.758	16.344	1.00	96.34	C
ATOM	5438	O	PRO	726	10.941	58.768	15.615	1.00	96.34	O
ATOM	5439	N	ALA	727	10.258	60.885	16.015	1.00	44.27	N
ATOM	5440	CA	ALA	727	9.599	61.028	14.746	1.00	44.27	C
ATOM	5441	CB	ALA	727	8.827	62.353	14.622	1.00	44.27	C
ATOM	5442	C	ALA	727	10.637	61.010	13.662	1.00	44.27	C
ATOM	5443	O	ALA	727	10.444	60.424	12.601	1.00	44.27	O
ATOM	5444	N	PHE	728	11.786	61.662	13.901	1.00	72.97	N

ATOM	5445	CA	PHE	728	12.839	61.730	12.927	1.00	72.97	C
ATOM	5446	CB	PHE	728	14.017	62.581	13.439	1.00	72.97	C
ATOM	5447	CG	PHE	728	15.162	62.484	12.491	1.00	72.97	C
ATOM	5448	CD1	PHE	728	15.199	63.234	11.338	1.00	72.97	C
ATOM	5449	CD2	PHE	728	16.217	61.645	12.772	1.00	72.97	C
ATOM	5450	CE1	PHE	728	16.269	63.137	10.477	1.00	72.97	C
ATOM	5451	CE2	PHE	728	17.287	61.544	11.916	1.00	72.97	C
ATOM	5452	CZ	PHE	728	17.313	62.291	10.763	1.00	72.97	C
ATOM	5453	C	PHE	728	13.328	60.345	12.665	1.00	72.97	C
ATOM	5454	O	PHE	728	13.608	59.979	11.524	1.00	72.97	O
ATOM	5455	N	ALA	729	13.427	59.528	13.728	1.00	43.20	N
ATOM	5456	CA	ALA	729	13.939	58.199	13.584	1.00	43.20	C
ATOM	5457	CB	ALA	729	13.949	57.420	14.910	1.00	43.20	C
ATOM	5458	C	ALA	729	13.077	57.437	12.622	1.00	43.20	C
ATOM	5459	O	ALA	729	13.593	56.658	11.822	1.00	43.20	O
ATOM	5460	N	ILE	730	11.739	57.598	12.702	1.00	160.30	N
ATOM	5461	CA	ILE	730	10.850	56.888	11.817	1.00	160.30	C
ATOM	5462	CB	ILE	730	9.430	56.821	12.350	1.00	160.30	C
ATOM	5463	CG1	ILE	730	8.539	55.893	11.518	1.00	160.30	C
ATOM	5464	CG2	ILE	730	8.843	58.231	12.434	1.00	160.30	C
ATOM	5465	CD1	ILE	730	8.112	56.530	10.202	1.00	160.30	C
ATOM	5466	C	ILE	730	10.927	57.391	10.400	1.00	160.30	C
ATOM	5467	O	ILE	730	11.034	56.591	9.475	1.00	160.30	O
ATOM	5468	N	ILE	731	10.913	58.722	10.181	1.00	105.91	N
ATOM	5469	CA	ILE	731	10.914	59.279	8.849	1.00	105.91	C
ATOM	5470	CB	ILE	731	10.758	60.770	8.848	1.00	105.91	C
ATOM	5471	CG1	ILE	731	9.441	61.152	9.542	1.00	105.91	C
ATOM	5472	CG2	ILE	731	10.840	61.257	7.392	1.00	105.91	C
ATOM	5473	CD1	ILE	731	8.211	60.520	8.894	1.00	105.91	C
ATOM	5474	C	ILE	731	12.202	58.945	8.163	1.00	105.91	C
ATOM	5475	O	ILE	731	12.220	58.641	6.971	1.00	105.91	O
ATOM	5476	N	PHE	732	13.321	59.035	8.903	1.00	65.31	N
ATOM	5477	CA	PHE	732	14.617	58.716	8.376	1.00	65.31	C
ATOM	5478	CB	PHE	732	15.730	58.965	9.410	1.00	65.31	C
ATOM	5479	CG	PHE	732	17.016	58.431	8.879	1.00	65.31	C
ATOM	5480	CD1	PHE	732	17.765	59.143	7.970	1.00	65.31	C
ATOM	5481	CD2	PHE	732	17.476	57.208	9.311	1.00	65.31	C
ATOM	5482	CE1	PHE	732	18.952	58.634	7.495	1.00	65.31	C
ATOM	5483	CE2	PHE	732	18.661	56.695	8.840	1.00	65.31	C
ATOM	5484	CZ	PHE	732	19.401	57.409	7.928	1.00	65.31	C
ATOM	5485	C	PHE	732	14.627	57.265	8.013	1.00	65.31	C
ATOM	5486	O	PHE	732	15.123	56.890	6.952	1.00	65.31	O
ATOM	5487	N	SER	733	14.081	56.408	8.898	1.00	96.48	N
ATOM	5488	CA	SER	733	14.060	54.991	8.661	1.00	96.48	C
ATOM	5489	CB	SER	733	13.487	54.178	9.837	1.00	96.48	C
ATOM	5490	OG	SER	733	14.353	54.235	10.958	1.00	96.48	O
ATOM	5491	C	SER	733	13.172	54.676	7.500	1.00	96.48	C
ATOM	5492	O	SER	733	13.501	53.843	6.663	1.00	96.48	O
ATOM	5493	N	LYS	734	12.007	55.330	7.415	1.00	108.57	N
ATOM	5494	CA	LYS	734	11.068	55.020	6.376	1.00	108.57	C
ATOM	5495	CB	LYS	734	9.738	55.779	6.479	1.00	108.57	C
ATOM	5496	CG	LYS	734	8.868	55.316	7.643	1.00	108.57	C
ATOM	5497	CD	LYS	734	8.446	53.846	7.596	1.00	108.57	C
ATOM	5498	CE	LYS	734	7.613	53.423	8.811	1.00	108.57	C
ATOM	5499	NZ	LYS	734	7.235	51.996	8.708	1.00	108.57	N
ATOM	5500	C	LYS	734	11.657	55.348	5.043	1.00	108.57	C
ATOM	5501	O	LYS	734	11.367	54.674	4.056	1.00	108.57	O
ATOM	5502	N	ILE	735	12.458	56.425	4.948	1.00	100.24	N
ATOM	5503	CA	ILE	735	13.004	56.714	3.656	1.00	100.24	C
ATOM	5504	CB	ILE	735	13.708	58.046	3.572	1.00	100.24	C
ATOM	5505	CG1	ILE	735	14.005	58.391	2.104	1.00	100.24	C
ATOM	5506	CG2	ILE	735	14.952	58.039	4.472	1.00	100.24	C
ATOM	5507	CD1	ILE	735	14.445	59.839	1.896	1.00	100.24	C
ATOM	5508	C	ILE	735	13.949	55.616	3.257	1.00	100.24	C
ATOM	5509	O	ILE	735	13.823	55.044	2.177	1.00	100.24	O
ATOM	5510	N	ILE	736	14.883	55.239	4.151	1.00	110.05	N
ATOM	5511	CA	ILE	736	15.872	54.238	3.860	1.00	110.05	C
ATOM	5512	CB	ILE	736	16.869	54.018	4.962	1.00	110.05	C
ATOM	5513	CG1	ILE	736	16.169	53.452	6.206	1.00	110.05	C
ATOM	5514	CG2	ILE	736	17.607	55.344	5.211	1.00	110.05	C
ATOM	5515	CD1	ILE	736	17.121	52.862	7.241	1.00	110.05	C
ATOM	5516	C	ILE	736	15.179	52.933	3.649	1.00	110.05	C
ATOM	5517	O	ILE	736	15.620	52.097	2.864	1.00	110.05	O
ATOM	5518	N	GLY	737	14.078	52.716	4.384	1.00	38.69	N

ATOM	5519	CA	GLY	737	13.348	51.488	4.334	1.00	38.69	C
ATOM	5520	C	GLY	737	12.897	51.242	2.928	1.00	38.69	C
ATOM	5521	O	GLY	737	12.868	50.099	2.476	1.00	38.69	O
ATOM	5522	N	VAL	738	12.508	52.298	2.191	1.00	116.08	N
ATOM	5523	CA	VAL	738	12.016	52.052	0.868	1.00	116.08	C
ATOM	5524	CB	VAL	738	11.468	53.290	0.204	1.00	116.08	C
ATOM	5525	CG1	VAL	738	12.609	54.253	-0.153	1.00	116.08	C
ATOM	5526	CG2	VAL	738	10.601	52.862	-0.988	1.00	116.08	C
ATOM	5527	C	VAL	738	13.099	51.424	0.023	1.00	116.08	C
ATOM	5528	O	VAL	738	12.873	50.408	-0.633	1.00	116.08	O
ATOM	5529	N	PHE	739	14.313	52.007	0.031	1.00	122.33	N
ATOM	5530	CA	PHE	739	15.438	51.582	-0.763	1.00	122.33	C
ATOM	5531	CB	PHE	739	16.464	52.708	-0.964	1.00	122.33	C
ATOM	5532	CG	PHE	739	15.763	53.774	-1.736	1.00	122.33	C
ATOM	5533	CD1	PHE	739	15.556	53.645	-3.090	1.00	122.33	C
ATOM	5534	CD2	PHE	739	15.317	54.910	-1.102	1.00	122.33	C
ATOM	5535	CE1	PHE	739	14.906	54.629	-3.798	1.00	122.33	C
ATOM	5536	CE2	PHE	739	14.667	55.898	-1.804	1.00	122.33	C
ATOM	5537	CZ	PHE	739	14.458	55.759	-3.155	1.00	122.33	C
ATOM	5538	C	PHE	739	16.133	50.356	-0.222	1.00	122.33	C
ATOM	5539	O	PHE	739	16.959	49.770	-0.921	1.00	122.33	O
ATOM	5540	N	THR	740	16.033	50.107	1.101	1.00	122.66	N
ATOM	5541	CA	THR	740	16.614	48.953	1.747	1.00	122.66	C
ATOM	5542	CB	THR	740	17.149	49.298	3.102	1.00	122.66	C
ATOM	5543	OG1	THR	740	16.097	49.724	3.955	1.00	122.66	O
ATOM	5544	CG2	THR	740	18.178	50.428	2.927	1.00	122.66	C
ATOM	5545	C	THR	740	15.735	47.727	1.902	1.00	122.66	C
ATOM	5546	O	THR	740	16.262	46.631	2.067	1.00	122.66	O
ATOM	5547	N	ARG	741	14.406	47.894	2.093	1.00	243.32	N
ATOM	5548	CA	ARG	741	13.477	46.804	2.315	1.00	243.32	C
ATOM	5549	CB	ARG	741	12.234	47.275	3.089	1.00	243.32	C
ATOM	5550	CG	ARG	741	11.216	46.167	3.366	1.00	243.32	C
ATOM	5551	CD	ARG	741	11.626	45.227	4.500	1.00	243.32	C
ATOM	5552	NE	ARG	741	11.389	45.953	5.780	1.00	243.32	N
ATOM	5553	CZ	ARG	741	10.152	45.932	6.358	1.00	243.32	C
ATOM	5554	NH1	ARG	741	9.137	45.233	5.771	1.00	243.32	N
ATOM	5555	NH2	ARG	741	9.929	46.611	7.520	1.00	243.32	N
ATOM	5556	C	ARG	741	12.958	46.092	1.096	1.00	243.32	C
ATOM	5557	O	ARG	741	12.952	44.865	1.077	1.00	243.32	O
ATOM	5558	N	ILE	742	12.479	46.852	0.076	1.00	180.54	N
ATOM	5559	CA	ILE	742	11.815	46.355	-1.116	1.00	180.54	C
ATOM	5560	CB	ILE	742	11.119	45.015	-1.045	1.00	180.54	C
ATOM	5561	CG1	ILE	742	10.177	45.008	0.170	1.00	180.54	C
ATOM	5562	CG2	ILE	742	12.071	43.827	-1.262	1.00	180.54	C
ATOM	5563	CD1	ILE	742	9.116	43.914	0.124	1.00	180.54	C
ATOM	5564	C	ILE	742	10.656	47.254	-1.435	1.00	180.54	C
ATOM	5565	O	ILE	742	9.986	47.751	-0.531	1.00	180.54	O
ATOM	5566	N	ASP	743	10.401	47.510	-2.740	1.00	117.79	N
ATOM	5567	CA	ASP	743	9.255	48.299	-3.106	1.00	117.79	C
ATOM	5568	CB	ASP	743	9.276	49.710	-2.488	1.00	117.79	C
ATOM	5569	CG	ASP	743	7.895	50.340	-2.620	1.00	117.79	C
ATOM	5570	OD1	ASP	743	6.941	49.620	-3.018	1.00	117.79	O
ATOM	5571	OD2	ASP	743	7.776	51.557	-2.316	1.00	117.79	O
ATOM	5572	C	ASP	743	9.258	48.466	-4.598	1.00	117.79	C
ATOM	5573	O	ASP	743	10.302	48.353	-5.239	1.00	117.79	O
ATOM	5574	N	ASP	744	8.071	48.708	-5.197	1.00	88.23	N
ATOM	5575	CA	ASP	744	7.977	48.947	-6.613	1.00	88.23	C
ATOM	5576	CB	ASP	744	6.542	48.802	-7.157	1.00	88.23	C
ATOM	5577	CG	ASP	744	6.580	48.801	-8.680	1.00	88.23	C
ATOM	5578	OD1	ASP	744	6.912	49.863	-9.272	1.00	88.23	O
ATOM	5579	OD2	ASP	744	6.261	47.736	-9.273	1.00	88.23	O
ATOM	5580	C	ASP	744	8.447	50.349	-6.863	1.00	88.23	C
ATOM	5581	O	ASP	744	8.278	51.231	-6.024	1.00	88.23	O
ATOM	5582	N	PRO	745	9.039	50.577	-8.003	1.00	139.86	N
ATOM	5583	CA	PRO	745	9.552	51.877	-8.353	1.00	139.86	C
ATOM	5584	CD	PRO	745	9.673	49.517	-8.765	1.00	139.86	C
ATOM	5585	CB	PRO	745	10.445	51.662	-9.580	1.00	139.86	C
ATOM	5586	CG	PRO	745	10.143	50.224	-10.044	1.00	139.86	C
ATOM	5587	C	PRO	745	8.458	52.871	-8.558	1.00	139.86	C
ATOM	5588	O	PRO	745	8.745	54.065	-8.609	1.00	139.86	O
ATOM	5589	N	GLU	746	7.207	52.412	-8.722	1.00	40.58	N
ATOM	5590	CA	GLU	746	6.134	53.337	-8.927	1.00	40.58	C
ATOM	5591	CB	GLU	746	4.806	52.616	-9.206	1.00	40.58	C
ATOM	5592	CG	GLU	746	4.828	51.819	-10.513	1.00	40.58	C

ATOM	5593	CD	GLU	746	3.494	51.103	-10.660	1.00	40.58	C
ATOM	5594	OE1	GLU	746	2.639	51.253	-9.747	1.00	40.58	O
ATOM	5595	OE2	GLU	746	3.313	50.394	-11.686	1.00	40.58	O
ATOM	5596	C	GLU	746	5.967	54.158	-7.681	1.00	40.58	C
ATOM	5597	O	GLU	746	5.789	55.372	-7.750	1.00	40.58	O
ATOM	5598	N	THR	747	6.011	53.481	-6.516	1.00	118.92	N
ATOM	5599	CA	THR	747	5.810	54.003	-5.187	1.00	118.92	C
ATOM	5600	CB	THR	747	5.528	52.912	-4.203	1.00	118.92	C
ATOM	5601	OG1	THR	747	4.406	52.153	-4.626	1.00	118.92	O
ATOM	5602	CG2	THR	747	5.229	53.562	-2.847	1.00	118.92	C
ATOM	5603	C	THR	747	6.985	54.777	-4.648	1.00	118.92	C
ATOM	5604	O	THR	747	6.816	55.638	-3.787	1.00	118.92	O
ATOM	5605	N	LYS	748	8.212	54.484	-5.114	1.00	65.57	N
ATOM	5606	CA	LYS	748	9.415	55.024	-4.532	1.00	65.57	C
ATOM	5607	CB	LYS	748	10.683	54.562	-5.268	1.00	65.57	C
ATOM	5608	CG	LYS	748	10.908	53.050	-5.194	1.00	65.57	C
ATOM	5609	CD	LYS	748	11.951	52.536	-6.188	1.00	65.57	C
ATOM	5610	CE	LYS	748	12.174	51.024	-6.112	1.00	65.57	C
ATOM	5611	NZ	LYS	748	13.194	50.613	-7.102	1.00	65.57	N
ATOM	5612	C	LYS	748	9.415	56.525	-4.543	1.00	65.57	C
ATOM	5613	O	LYS	748	10.027	57.140	-3.671	1.00	65.57	O
ATOM	5614	N	ARG	749	8.821	57.159	-5.571	1.00	142.18	N
ATOM	5615	CA	ARG	749	8.810	58.595	-5.635	1.00	142.18	C
ATOM	5616	CB	ARG	749	8.253	59.112	-6.974	1.00	142.18	C
ATOM	5617	CG	ARG	749	8.139	60.635	-7.034	1.00	142.18	C
ATOM	5618	CD	ARG	749	9.482	61.360	-7.128	1.00	142.18	C
ATOM	5619	NE	ARG	749	9.683	61.729	-8.556	1.00	142.18	N
ATOM	5620	CZ	ARG	749	10.358	62.871	-8.877	1.00	142.18	C
ATOM	5621	NH1	ARG	749	10.872	63.662	-7.890	1.00	142.18	N
ATOM	5622	NH2	ARG	749	10.512	63.227	-10.186	1.00	142.18	N
ATOM	5623	C	ARG	749	7.971	59.230	-4.557	1.00	142.18	C
ATOM	5624	O	ARG	749	8.458	60.075	-3.806	1.00	142.18	O
ATOM	5625	N	GLN	750	6.688	58.826	-4.428	1.00	75.98	N
ATOM	5626	CA	GLN	750	5.820	59.525	-3.517	1.00	75.98	C
ATOM	5627	CB	GLN	750	4.344	59.111	-3.530	1.00	75.98	C
ATOM	5628	CG	GLN	750	3.552	60.026	-2.589	1.00	75.98	C
ATOM	5629	CD	GLN	750	2.274	59.337	-2.150	1.00	75.98	C
ATOM	5630	OE1	GLN	750	2.316	58.273	-1.534	1.00	75.98	O
ATOM	5631	NE2	GLN	750	1.107	59.966	-2.451	1.00	75.98	N
ATOM	5632	C	GLN	750	6.238	59.307	-2.106	1.00	75.98	C
ATOM	5633	O	GLN	750	6.217	60.237	-1.303	1.00	75.98	O
ATOM	5634	N	ASN	751	6.612	58.063	-1.757	1.00	51.15	N
ATOM	5635	CA	ASN	751	6.941	57.792	-0.390	1.00	51.15	C
ATOM	5636	CB	ASN	751	7.354	56.331	-0.141	1.00	51.15	C
ATOM	5637	CG	ASN	751	6.105	55.462	-0.154	1.00	51.15	C
ATOM	5638	OD1	ASN	751	4.985	55.961	-0.060	1.00	51.15	O
ATOM	5639	ND2	ASN	751	6.303	54.120	-0.249	1.00	51.15	N
ATOM	5640	C	ASN	751	8.102	58.644	0.007	1.00	51.15	C
ATOM	5641	O	ASN	751	8.055	59.324	1.029	1.00	51.15	O
ATOM	5642	N	SER	752	9.167	58.657	-0.814	1.00	43.89	N
ATOM	5643	CA	SER	752	10.358	59.379	-0.474	1.00	43.89	C
ATOM	5644	CB	SER	752	11.483	59.195	-1.509	1.00	43.89	C
ATOM	5645	OG	SER	752	11.096	59.749	-2.758	1.00	43.89	O
ATOM	5646	C	SER	752	10.067	60.839	-0.385	1.00	43.89	C
ATOM	5647	O	SER	752	10.470	61.490	0.572	1.00	43.89	O
ATOM	5648	N	ASN	753	9.346	61.398	-1.371	1.00	46.48	N
ATOM	5649	CA	ASN	753	9.071	62.805	-1.362	1.00	46.48	C
ATOM	5650	CB	ASN	753	8.275	63.278	-2.593	1.00	46.48	C
ATOM	5651	CG	ASN	753	9.177	63.192	-3.818	1.00	46.48	C
ATOM	5652	OD1	ASN	753	10.338	62.797	-3.726	1.00	46.48	O
ATOM	5653	ND2	ASN	753	8.632	63.587	-5.000	1.00	46.48	N
ATOM	5654	C	ASN	753	8.250	63.112	-0.155	1.00	46.48	C
ATOM	5655	O	ASN	753	8.423	64.154	0.474	1.00	46.48	O
ATOM	5656	N	LEU	754	7.315	62.213	0.196	1.00	125.50	N
ATOM	5657	CA	LEU	754	6.466	62.485	1.314	1.00	125.50	C
ATOM	5658	CB	LEU	754	5.449	61.352	1.540	1.00	125.50	C
ATOM	5659	CG	LEU	754	4.238	61.721	2.420	1.00	125.50	C
ATOM	5660	CD1	LEU	754	3.533	60.461	2.940	1.00	125.50	C
ATOM	5661	CD2	LEU	754	4.570	62.743	3.509	1.00	125.50	C
ATOM	5662	C	LEU	754	7.344	62.562	2.531	1.00	125.50	C
ATOM	5663	O	LEU	754	7.362	63.581	3.218	1.00	125.50	O
ATOM	5664	N	PHE	755	8.171	61.517	2.762	1.00	82.65	N
ATOM	5665	CA	PHE	755	8.998	61.409	3.936	1.00	82.65	C
ATOM	5666	CB	PHE	755	9.796	60.090	4.033	1.00	82.65	C

ATOM	5667	CG	PHE	755	8.843	58.942	4.117	1.00	82.65	C
ATOM	5668	CD1	PHE	755	7.919	58.867	5.133	1.00	82.65	C
ATOM	5669	CD2	PHE	755	8.908	57.909	3.208	1.00	82.65	C
ATOM	5670	CE1	PHE	755	7.048	57.804	5.212	1.00	82.65	C
ATOM	5671	CE2	PHE	755	8.043	56.843	3.281	1.00	82.65	C
ATOM	5672	CZ	PHE	755	7.105	56.792	4.284	1.00	82.65	C
ATOM	5673	C	PHE	755	9.996	62.525	3.941	1.00	82.65	C
ATOM	5674	O	PHE	755	10.358	63.042	4.996	1.00	82.65	O
ATOM	5675	N	SER	756	10.508	62.899	2.756	1.00	91.53	N
ATOM	5676	CA	SER	756	11.495	63.936	2.662	1.00	91.53	C
ATOM	5677	CB	SER	756	12.036	64.137	1.235	1.00	91.53	C
ATOM	5678	OG	SER	756	11.010	64.599	0.371	1.00	91.53	O
ATOM	5679	C	SER	756	10.892	65.226	3.124	1.00	91.53	C
ATOM	5680	O	SER	756	11.536	66.002	3.826	1.00	91.53	O
ATOM	5681	N	LEU	757	9.634	65.479	2.721	1.00	68.17	N
ATOM	5682	CA	LEU	757	8.880	66.651	3.069	1.00	68.17	C
ATOM	5683	CB	LEU	757	7.561	66.760	2.288	1.00	68.17	C
ATOM	5684	CG	LEU	757	7.766	66.895	0.768	1.00	68.17	C
ATOM	5685	CD1	LEU	757	6.428	67.087	0.037	1.00	68.17	C
ATOM	5686	CD2	LEU	757	8.796	67.989	0.440	1.00	68.17	C
ATOM	5687	C	LEU	757	8.536	66.606	4.527	1.00	68.17	C
ATOM	5688	O	LEU	757	8.350	67.650	5.147	1.00	68.17	O
ATOM	5689	N	LEU	758	8.394	65.394	5.105	1.00	124.40	N
ATOM	5690	CA	LEU	758	8.047	65.294	6.498	1.00	124.40	C
ATOM	5691	CB	LEU	758	7.849	63.893	7.120	1.00	124.40	C
ATOM	5692	CG	LEU	758	6.549	63.137	6.786	1.00	124.40	C
ATOM	5693	CD1	LEU	758	6.672	62.295	5.518	1.00	124.40	C
ATOM	5694	CD2	LEU	758	6.058	62.327	7.992	1.00	124.40	C
ATOM	5695	C	LEU	758	9.128	65.899	7.330	1.00	124.40	C
ATOM	5696	O	LEU	758	8.868	66.294	8.464	1.00	124.40	O
ATOM	5697	N	PHE	759	10.382	65.915	6.840	1.00	82.26	N
ATOM	5698	CA	PHE	759	11.429	66.500	7.625	1.00	82.26	C
ATOM	5699	CB	PHE	759	12.828	66.460	6.981	1.00	82.26	C
ATOM	5700	CG	PHE	759	13.331	65.056	6.970	1.00	82.26	C
ATOM	5701	CD1	PHE	759	13.491	64.368	8.150	1.00	82.26	C
ATOM	5702	CD2	PHE	759	13.692	64.446	5.791	1.00	82.26	C
ATOM	5703	CE1	PHE	759	13.968	63.078	8.151	1.00	82.26	C
ATOM	5704	CE2	PHE	759	14.172	63.157	5.787	1.00	82.26	C
ATOM	5705	CZ	PHE	759	14.307	62.468	6.968	1.00	82.26	C
ATOM	5706	C	PHE	759	11.101	67.934	7.842	1.00	82.26	C
ATOM	5707	O	PHE	759	11.302	68.441	8.937	1.00	82.26	O
ATOM	5708	N	LEU	760	10.607	68.629	6.802	1.00	140.58	N
ATOM	5709	CA	LEU	760	10.253	70.015	6.899	1.00	140.58	C
ATOM	5710	CB	LEU	760	9.813	70.608	5.551	1.00	140.58	C
ATOM	5711	CG	LEU	760	9.600	72.129	5.604	1.00	140.58	C
ATOM	5712	CD1	LEU	760	10.917	72.849	5.930	1.00	140.58	C
ATOM	5713	CD2	LEU	760	8.943	72.650	4.317	1.00	140.58	C
ATOM	5714	C	LEU	760	9.113	70.133	7.861	1.00	140.58	C
ATOM	5715	O	LEU	760	9.000	71.129	8.567	1.00	140.58	O
ATOM	5716	N	ALA	761	8.205	69.138	7.893	1.00	42.10	N
ATOM	5717	CA	ALA	761	7.116	69.187	8.828	1.00	42.10	C
ATOM	5718	CB	ALA	761	6.180	67.969	8.732	1.00	42.10	C
ATOM	5719	C	ALA	761	7.718	69.175	10.199	1.00	42.10	C
ATOM	5720	O	ALA	761	7.298	69.923	11.078	1.00	42.10	O
ATOM	5721	N	LEU	762	8.733	68.317	10.411	1.00	80.59	N
ATOM	5722	CA	LEU	762	9.431	68.236	11.661	1.00	80.59	C
ATOM	5723	CB	LEU	762	10.529	67.160	11.664	1.00	80.59	C
ATOM	5724	CG	LEU	762	10.014	65.716	11.727	1.00	80.59	C
ATOM	5725	CD1	LEU	762	11.170	64.717	11.600	1.00	80.59	C
ATOM	5726	CD2	LEU	762	9.214	65.479	13.014	1.00	80.59	C
ATOM	5727	C	LEU	762	10.138	69.536	11.886	1.00	80.59	C
ATOM	5728	O	LEU	762	10.221	70.026	13.007	1.00	80.59	O
ATOM	5729	N	GLY	763	10.703	70.111	10.812	1.00	42.37	N
ATOM	5730	CA	GLY	763	11.476	71.312	10.881	1.00	42.37	C
ATOM	5731	C	GLY	763	10.610	72.451	11.297	1.00	42.37	C
ATOM	5732	O	GLY	763	11.015	73.280	12.108	1.00	42.37	O
ATOM	5733	N	ILE	764	9.403	72.540	10.715	1.00	57.95	N
ATOM	5734	CA	ILE	764	8.505	73.610	11.012	1.00	57.95	C
ATOM	5735	CB	ILE	764	7.277	73.574	10.153	1.00	57.95	C
ATOM	5736	CG1	ILE	764	7.672	73.721	8.675	1.00	57.95	C
ATOM	5737	CG2	ILE	764	6.312	74.666	10.644	1.00	57.95	C
ATOM	5738	CD1	ILE	764	6.546	73.375	7.706	1.00	57.95	C
ATOM	5739	C	ILE	764	8.081	73.459	12.432	1.00	57.95	C
ATOM	5740	O	ILE	764	8.147	74.404	13.214	1.00	57.95	O

ATOM	5741	N	ILE	765	7.705	72.222	12.803	1.00165.67	N
ATOM	5742	CA	ILE	765	7.166	71.898	14.089	1.00165.67	C
ATOM	5743	CB	ILE	765	6.735	70.454	14.157	1.00165.67	C
ATOM	5744	CG1	ILE	765	5.592	70.260	15.161	1.00165.67	C
ATOM	5745	CG2	ILE	765	7.960	69.591	14.487	1.00165.67	C
ATOM	5746	CD1	ILE	765	5.971	70.577	16.597	1.00165.67	C
ATOM	5747	C	ILE	765	8.222	72.199	15.116	1.00165.67	C
ATOM	5748	O	ILE	765	7.906	72.618	16.228	1.00165.67	O
ATOM	5749	N	SER	766	9.509	71.956	14.786	1.00 55.67	N
ATOM	5750	CA	SER	766	10.586	72.262	15.691	1.00 55.67	C
ATOM	5751	CB	SER	766	11.960	71.811	15.167	1.00 55.67	C
ATOM	5752	OG	SER	766	12.975	72.141	16.106	1.00 55.67	O
ATOM	5753	C	SER	766	10.638	73.745	15.893	1.00 55.67	C
ATOM	5754	O	SER	766	10.832	74.222	17.010	1.00 55.67	O
ATOM	5755	N	PHE	767	10.463	74.517	14.802	1.00108.25	N
ATOM	5756	CA	PHE	767	10.499	75.949	14.862	1.00108.25	C
ATOM	5757	CB	PHE	767	10.366	76.590	13.469	1.00108.25	C
ATOM	5758	CG	PHE	767	10.579	78.059	13.604	1.00108.25	C
ATOM	5759	CD1	PHE	767	9.544	78.891	13.962	1.00108.25	C
ATOM	5760	CD2	PHE	767	11.820	78.603	13.366	1.00108.25	C
ATOM	5761	CE1	PHE	767	9.746	80.246	14.083	1.00108.25	C
ATOM	5762	CE2	PHE	767	12.028	79.956	13.486	1.00108.25	C
ATOM	5763	CZ	PHE	767	10.989	80.780	13.845	1.00108.25	C
ATOM	5764	C	PHE	767	9.340	76.395	15.690	1.00108.25	C
ATOM	5765	O	PHE	767	9.464	77.305	16.507	1.00108.25	O
ATOM	5766	N	ILE	768	8.171	75.766	15.475	1.00 71.03	N
ATOM	5767	CA	ILE	768	6.971	76.102	16.179	1.00 71.03	C
ATOM	5768	CB	ILE	768	5.788	75.340	15.668	1.00 71.03	C
ATOM	5769	CG1	ILE	768	5.559	75.665	14.186	1.00 71.03	C
ATOM	5770	CG2	ILE	768	4.580	75.662	16.564	1.00 71.03	C
ATOM	5771	CD1	ILE	768	4.601	74.695	13.503	1.00 71.03	C
ATOM	5772	C	ILE	768	7.126	75.765	17.632	1.00 71.03	C
ATOM	5773	O	ILE	768	6.837	76.604	18.475	1.00 71.03	O
ATOM	5774	N	THR	769	7.615	74.552	17.974	1.00 83.42	N
ATOM	5775	CA	THR	769	7.710	74.140	19.353	1.00 83.42	C
ATOM	5776	CB	THR	769	8.188	72.733	19.569	1.00 83.42	C
ATOM	5777	OG1	THR	769	9.456	72.535	18.962	1.00 83.42	O
ATOM	5778	CG2	THR	769	7.148	71.753	19.017	1.00 83.42	C
ATOM	5779	C	THR	769	8.666	75.010	20.095	1.00 83.42	C
ATOM	5780	O	THR	769	8.438	75.293	21.266	1.00 83.42	O
ATOM	5781	N	PHE	770	9.797	75.395	19.476	1.00 80.80	N
ATOM	5782	CA	PHE	770	10.724	76.271	20.135	1.00 80.80	C
ATOM	5783	CB	PHE	770	12.091	76.371	19.435	1.00 80.80	C
ATOM	5784	CG	PHE	770	12.841	75.127	19.789	1.00 80.80	C
ATOM	5785	CD1	PHE	770	13.497	75.043	20.996	1.00 80.80	C
ATOM	5786	CD2	PHE	770	12.894	74.050	18.934	1.00 80.80	C
ATOM	5787	CE1	PHE	770	14.193	73.911	21.347	1.00 80.80	C
ATOM	5788	CE2	PHE	770	13.590	72.914	19.279	1.00 80.80	C
ATOM	5789	CZ	PHE	770	14.242	72.841	20.486	1.00 80.80	C
ATOM	5790	C	PHE	770	10.109	77.628	20.261	1.00 80.80	C
ATOM	5791	O	PHE	770	10.257	78.286	21.287	1.00 80.80	O
ATOM	5792	N	PHE	771	9.393	78.077	19.214	1.00 76.82	N
ATOM	5793	CA	PHE	771	8.751	79.360	19.208	1.00 76.82	C
ATOM	5794	CB	PHE	771	8.027	79.652	17.882	1.00 76.82	C
ATOM	5795	CG	PHE	771	7.212	80.886	18.068	1.00 76.82	C
ATOM	5796	CD1	PHE	771	7.789	82.133	18.022	1.00 76.82	C
ATOM	5797	CD2	PHE	771	5.856	80.788	18.282	1.00 76.82	C
ATOM	5798	CE1	PHE	771	7.024	83.263	18.195	1.00 76.82	C
ATOM	5799	CE2	PHE	771	5.086	81.913	18.454	1.00 76.82	C
ATOM	5800	CZ	PHE	771	5.671	83.155	18.410	1.00 76.82	C
ATOM	5801	C	PHE	771	7.725	79.390	20.298	1.00 76.82	C
ATOM	5802	O	PHE	771	7.540	80.416	20.946	1.00 76.82	O
ATOM	5803	N	LEU	772	6.973	78.286	20.450	1.00 90.02	N
ATOM	5804	CA	LEU	772	5.935	78.081	21.423	1.00 90.02	C
ATOM	5805	CB	LEU	772	5.060	76.858	21.106	1.00 90.02	C
ATOM	5806	CG	LEU	772	4.282	76.978	19.787	1.00 90.02	C
ATOM	5807	CD1	LEU	772	3.413	75.733	19.546	1.00 90.02	C
ATOM	5808	CD2	LEU	772	3.485	78.291	19.725	1.00 90.02	C
ATOM	5809	C	LEU	772	6.468	77.848	22.807	1.00 90.02	C
ATOM	5810	O	LEU	772	5.875	78.318	23.775	1.00 90.02	O
ATOM	5811	N	GLN	773	7.568	77.076	22.960	1.00123.10	N
ATOM	5812	CA	GLN	773	7.997	76.753	24.292	1.00123.10	C
ATOM	5813	CB	GLN	773	9.114	75.692	24.408	1.00123.10	C
ATOM	5814	CG	GLN	773	10.503	76.093	23.916	1.00123.10	C

ATOM	5815	CD	GLN	773	11.455	74.988	24.361	1.00123.10	C
ATOM	5816	OE1	GLN	773	11.256	73.815	24.047	1.00123.10	O
ATOM	5817	NE2	GLN	773	12.510	75.366	25.134	1.00123.10	N
ATOM	5818	C	GLN	773	8.447	78.002	24.972	1.00123.10	C
ATOM	5819	O	GLN	773	8.147	78.228	26.141	1.00123.10	O
ATOM	5820	N	GLY	774	9.192	78.837	24.235	1.00 78.85	N
ATOM	5821	CA	GLY	774	9.713	80.100	24.660	1.00 78.85	C
ATOM	5822	C	GLY	774	8.622	81.108	24.817	1.00 78.85	C
ATOM	5823	O	GLY	774	8.860	82.166	25.394	1.00 78.85	O
ATOM	5824	N	PHE	775	7.496	80.909	24.101	1.00120.85	N
ATOM	5825	CA	PHE	775	6.356	81.781	24.146	1.00120.85	C
ATOM	5826	CB	PHE	775	5.441	81.570	22.928	1.00120.85	C
ATOM	5827	CG	PHE	775	4.564	82.765	22.802	1.00120.85	C
ATOM	5828	CD1	PHE	775	5.012	83.866	22.110	1.00120.85	C
ATOM	5829	CD2	PHE	775	3.309	82.790	23.362	1.00120.85	C
ATOM	5830	CE1	PHE	775	4.221	84.982	21.978	1.00120.85	C
ATOM	5831	CE2	PHE	775	2.513	83.904	23.234	1.00120.85	C
ATOM	5832	CZ	PHE	775	2.968	85.000	22.541	1.00120.85	C
ATOM	5833	C	PHE	775	5.532	81.569	25.387	1.00120.85	C
ATOM	5834	O	PHE	775	5.036	82.525	25.977	1.00120.85	O
ATOM	5835	N	THR	776	5.231	80.301	25.737	1.00170.96	N
ATOM	5836	CA	THR	776	4.390	80.062	26.875	1.00170.96	C
ATOM	5837	CB	THR	776	3.597	78.834	26.710	1.00170.96	C
ATOM	5838	OG1	THR	776	3.052	78.768	25.402	1.00170.96	O
ATOM	5839	CG2	THR	776	2.434	79.089	27.652	1.00170.96	C
ATOM	5840	C	THR	776	5.134	79.986	28.186	1.00170.96	C
ATOM	5841	O	THR	776	4.797	80.681	29.142	1.00170.96	O
ATOM	5842	N	PHE	777	6.173	79.120	28.261	1.00107.04	N
ATOM	5843	CA	PHE	777	7.001	78.969	29.428	1.00107.04	C
ATOM	5844	CB	PHE	777	8.048	77.839	29.366	1.00107.04	C
ATOM	5845	CG	PHE	777	7.404	76.519	29.609	1.00107.04	C
ATOM	5846	CD1	PHE	777	6.842	76.243	30.835	1.00107.04	C
ATOM	5847	CD2	PHE	777	7.407	75.543	28.640	1.00107.04	C
ATOM	5848	CE1	PHE	777	6.257	75.024	31.083	1.00107.04	C
ATOM	5849	CE2	PHE	777	6.825	74.321	28.883	1.00107.04	C
ATOM	5850	CZ	PHE	777	6.246	74.061	30.102	1.00107.04	C
ATOM	5851	C	PHE	777	7.794	80.222	29.578	1.00107.04	C
ATOM	5852	O	PHE	777	8.169	80.596	30.687	1.00107.04	O
ATOM	5853	N	GLY	778	8.149	80.852	28.443	1.00 48.60	N
ATOM	5854	CA	GLY	778	8.931	82.054	28.472	1.00 48.60	C
ATOM	5855	C	GLY	778	8.169	83.140	29.168	1.00 48.60	C
ATOM	5856	O	GLY	778	8.690	83.782	30.076	1.00 48.60	O
ATOM	5857	N	LYS	779	6.903	83.365	28.770	1.00121.16	N
ATOM	5858	CA	LYS	779	6.087	84.372	29.383	1.00121.16	C
ATOM	5859	CB	LYS	779	4.734	84.604	28.689	1.00121.16	C
ATOM	5860	CG	LYS	779	4.797	85.617	27.544	1.00121.16	C
ATOM	5861	CD	LYS	779	5.638	85.169	26.352	1.00121.16	C
ATOM	5862	CE	LYS	779	5.683	86.198	25.222	1.00121.16	C
ATOM	5863	NZ	LYS	779	6.515	85.688	24.111	1.00121.16	N
ATOM	5864	C	LYS	779	5.824	83.959	30.793	1.00121.16	C
ATOM	5865	O	LYS	779	5.748	84.795	31.686	1.00121.16	O
ATOM	5866	N	ALA	780	5.696	82.645	31.041	1.00 60.43	N
ATOM	5867	CA	ALA	780	5.380	82.156	32.348	1.00 60.43	C
ATOM	5868	CB	ALA	780	5.315	80.620	32.402	1.00 60.43	C
ATOM	5869	C	ALA	780	6.447	82.596	33.305	1.00 60.43	C
ATOM	5870	O	ALA	780	6.157	82.872	34.466	1.00 60.43	O
ATOM	5871	N	GLY	781	7.720	82.582	32.867	1.00 62.07	N
ATOM	5872	CA	GLY	781	8.833	83.009	33.675	1.00 62.07	C
ATOM	5873	C	GLY	781	8.853	84.502	33.864	1.00 62.07	C
ATOM	5874	O	GLY	781	9.129	84.991	34.956	1.00 62.07	O
ATOM	5875	N	GLU	782	8.604	85.264	32.780	1.00115.73	N
ATOM	5876	CA	GLU	782	8.671	86.701	32.771	1.00115.73	C
ATOM	5877	CB	GLU	782	8.603	87.282	31.351	1.00115.73	C
ATOM	5878	CG	GLU	782	9.789	86.855	30.482	1.00115.73	C
ATOM	5879	CD	GLU	782	11.070	87.310	31.170	1.00115.73	C
ATOM	5880	OE1	GLU	782	11.087	88.457	31.690	1.00115.73	O
ATOM	5881	OE2	GLU	782	12.045	86.513	31.190	1.00115.73	O
ATOM	5882	C	GLU	782	7.553	87.287	33.572	1.00115.73	C
ATOM	5883	O	GLU	782	7.724	88.341	34.180	1.00115.73	O
ATOM	5884	N	ILE	783	6.353	86.670	33.522	1.00127.59	N
ATOM	5885	CA	ILE	783	5.270	87.115	34.350	1.00127.59	C
ATOM	5886	CB	ILE	783	3.931	86.482	34.073	1.00127.59	C
ATOM	5887	CG1	ILE	783	3.243	87.098	32.840	1.00127.59	C
ATOM	5888	CG2	ILE	783	3.091	86.617	35.354	1.00127.59	C

ATOM	5889	CD1	ILE	783	3.878	86.776	31.495	1.00127.59	C
ATOM	5890	C	ILE	783	5.611	86.821	35.772	1.00127.59	C
ATOM	5891	O	ILE	783	5.395	87.656	36.645	1.00127.59	O
ATOM	5892	N	LEU	784	6.183	85.631	36.032	1.00 83.87	N
ATOM	5893	CA	LEU	784	6.480	85.189	37.363	1.00 83.87	C
ATOM	5894	CB	LEU	784	7.119	83.788	37.379	1.00 83.87	C
ATOM	5895	CG	LEU	784	7.312	83.192	38.785	1.00 83.87	C
ATOM	5896	CD1	LEU	784	5.960	82.955	39.480	1.00 83.87	C
ATOM	5897	CD2	LEU	784	8.171	81.919	38.732	1.00 83.87	C
ATOM	5898	C	LEU	784	7.432	86.163	37.985	1.00 83.87	C
ATOM	5899	O	LEU	784	7.315	86.479	39.165	1.00 83.87	O
ATOM	5900	N	THR	785	8.416	86.665	37.219	1.00 53.82	N
ATOM	5901	CA	THR	785	9.348	87.602	37.779	1.00 53.82	C
ATOM	5902	CB	THR	785	10.432	87.988	36.816	1.00 53.82	C
ATOM	5903	OG1	THR	785	11.148	86.837	36.390	1.00 53.82	O
ATOM	5904	CG2	THR	785	11.384	88.969	37.522	1.00 53.82	C
ATOM	5905	C	THR	785	8.624	88.860	38.163	1.00 53.82	C
ATOM	5906	O	THR	785	8.783	89.367	39.272	1.00 53.82	O
ATOM	5907	N	LYS	786	7.784	89.386	37.252	1.00150.32	N
ATOM	5908	CA	LYS	786	7.093	90.627	37.452	1.00150.32	C
ATOM	5909	CB	LYS	786	6.315	91.022	36.183	1.00150.32	C
ATOM	5910	CG	LYS	786	5.918	92.495	36.089	1.00150.32	C
ATOM	5911	CD	LYS	786	4.864	92.945	37.096	1.00150.32	C
ATOM	5912	CE	LYS	786	4.525	94.431	36.960	1.00150.32	C
ATOM	5913	NZ	LYS	786	4.234	94.763	35.543	1.00150.32	N
ATOM	5914	C	LYS	786	6.140	90.498	38.604	1.00150.32	C
ATOM	5915	O	LYS	786	6.058	91.386	39.451	1.00150.32	O
ATOM	5916	N	ARG	787	5.389	89.383	38.663	1.00166.10	N
ATOM	5917	CA	ARG	787	4.415	89.155	39.694	1.00166.10	C
ATOM	5918	CB	ARG	787	3.526	87.936	39.418	1.00166.10	C
ATOM	5919	CG	ARG	787	2.489	88.234	38.337	1.00166.10	C
ATOM	5920	CD	ARG	787	1.658	87.030	37.898	1.00166.10	C
ATOM	5921	NE	ARG	787	1.035	86.430	39.109	1.00166.10	N
ATOM	5922	CZ	ARG	787	1.674	85.407	39.746	1.00166.10	C
ATOM	5923	NH1	ARG	787	2.904	85.001	39.316	1.00166.10	N
ATOM	5924	NH2	ARG	787	1.078	84.775	40.796	1.00166.10	N
ATOM	5925	C	ARG	787	5.066	88.976	41.031	1.00166.10	C
ATOM	5926	O	ARG	787	4.535	89.450	42.032	1.00166.10	O
ATOM	5927	N	LEU	788	6.199	88.249	41.099	1.00123.84	N
ATOM	5928	CA	LEU	788	6.893	88.036	42.343	1.00123.84	C
ATOM	5929	CB	LEU	788	8.002	86.968	42.278	1.00123.84	C
ATOM	5930	CG	LEU	788	7.488	85.522	42.440	1.00123.84	C
ATOM	5931	CD1	LEU	788	6.433	85.153	41.390	1.00123.84	C
ATOM	5932	CD2	LEU	788	8.656	84.523	42.477	1.00123.84	C
ATOM	5933	C	LEU	788	7.488	89.308	42.842	1.00123.84	C
ATOM	5934	O	LEU	788	7.472	89.567	44.042	1.00123.84	O
ATOM	5935	N	ARG	789	8.039	90.140	41.945	1.00 80.74	N
ATOM	5936	CA	ARG	789	8.624	91.375	42.375	1.00 80.74	C
ATOM	5937	CB	ARG	789	9.234	92.183	41.216	1.00 80.74	C
ATOM	5938	CG	ARG	789	10.458	91.518	40.583	1.00 80.74	C
ATOM	5939	CD	ARG	789	11.061	92.325	39.432	1.00 80.74	C
ATOM	5940	NE	ARG	789	12.236	91.572	38.911	1.00 80.74	N
ATOM	5941	CZ	ARG	789	12.844	91.979	37.758	1.00 80.74	C
ATOM	5942	NH1	ARG	789	12.384	93.083	37.099	1.00 80.74	N
ATOM	5943	NH2	ARG	789	13.908	91.284	37.261	1.00 80.74	N
ATOM	5944	C	ARG	789	7.536	92.204	42.990	1.00 80.74	C
ATOM	5945	O	ARG	789	7.768	92.958	43.932	1.00 80.74	O
ATOM	5946	N	TYR	790	6.325	92.126	42.414	1.00 75.97	N
ATOM	5947	CA	TYR	790	5.167	92.826	42.895	1.00 75.97	C
ATOM	5948	CB	TYR	790	4.016	92.686	41.880	1.00 75.97	C
ATOM	5949	CG	TYR	790	2.793	93.413	42.318	1.00 75.97	C
ATOM	5950	CD1	TYR	790	2.665	94.767	42.101	1.00 75.97	C
ATOM	5951	CD2	TYR	790	1.762	92.734	42.924	1.00 75.97	C
ATOM	5952	CE1	TYR	790	1.528	95.432	42.494	1.00 75.97	C
ATOM	5953	CE2	TYR	790	0.623	93.394	43.318	1.00 75.97	C
ATOM	5954	CZ	TYR	790	0.504	94.746	43.103	1.00 75.97	C
ATOM	5955	OH	TYR	790	-0.666	95.424	43.505	1.00 75.97	O
ATOM	5956	C	TYR	790	4.745	92.249	44.221	1.00 75.97	C
ATOM	5957	O	TYR	790	4.497	92.977	45.179	1.00 75.97	O
ATOM	5958	N	MET	791	4.667	90.908	44.312	1.00 81.70	N
ATOM	5959	CA	MET	791	4.219	90.232	45.500	1.00 81.70	C
ATOM	5960	CB	MET	791	4.086	88.715	45.286	1.00 81.70	C
ATOM	5961	CG	MET	791	2.976	88.352	44.296	1.00 81.70	C
ATOM	5962	SD	MET	791	2.884	86.590	43.864	1.00 81.70	S

ATOM	5963	CE	MET	791	4.257	86.668	42.681	1.00	81.70	C
ATOM	5964	C	MET	791	5.186	90.457	46.619	1.00	81.70	C
ATOM	5965	O	MET	791	4.780	90.668	47.760	1.00	81.70	O
ATOM	5966	N	VAL	792	6.499	90.393	46.326	1.00	61.08	N
ATOM	5967	CA	VAL	792	7.483	90.572	47.350	1.00	61.08	C
ATOM	5968	CB	VAL	792	8.890	90.364	46.865	1.00	61.08	C
ATOM	5969	CG1	VAL	792	9.854	90.758	47.997	1.00	61.08	C
ATOM	5970	CG2	VAL	792	9.046	88.904	46.405	1.00	61.08	C
ATOM	5971	C	VAL	792	7.397	91.972	47.873	1.00	61.08	C
ATOM	5972	O	VAL	792	7.284	92.189	49.076	1.00	61.08	O
ATOM	5973	N	PHE	793	7.386	92.960	46.961	1.00	95.42	N
ATOM	5974	CA	PHE	793	7.389	94.351	47.309	1.00	95.42	C
ATOM	5975	CB	PHE	793	7.513	95.252	46.065	1.00	95.42	C
ATOM	5976	CG	PHE	793	7.836	96.641	46.500	1.00	95.42	C
ATOM	5977	CD1	PHE	793	9.095	96.952	46.964	1.00	95.42	C
ATOM	5978	CD2	PHE	793	6.892	97.637	46.420	1.00	95.42	C
ATOM	5979	CE1	PHE	793	9.401	98.233	47.361	1.00	95.42	C
ATOM	5980	CE2	PHE	793	7.191	98.920	46.815	1.00	95.42	C
ATOM	5981	CZ	PHE	793	8.446	99.219	47.289	1.00	95.42	C
ATOM	5982	C	PHE	793	6.122	94.658	48.048	1.00	95.42	C
ATOM	5983	O	PHE	793	6.094	95.531	48.917	1.00	95.42	O
ATOM	5984	N	ARG	794	5.009	94.004	47.662	1.00	88.58	N
ATOM	5985	CA	ARG	794	3.787	94.200	48.388	1.00	88.58	C
ATOM	5986	CB	ARG	794	2.545	93.569	47.736	1.00	88.58	C
ATOM	5987	CG	ARG	794	1.252	94.039	48.412	1.00	88.58	C
ATOM	5988	CD	ARG	794	-0.037	93.482	47.803	1.00	88.58	C
ATOM	5989	NE	ARG	794	-0.641	92.543	48.791	1.00	88.58	N
ATOM	5990	CZ	ARG	794	-0.446	91.196	48.686	1.00	88.58	C
ATOM	5991	NH1	ARG	794	0.285	90.687	47.652	1.00	88.58	N
ATOM	5992	NH2	ARG	794	-0.991	90.358	49.615	1.00	88.58	N
ATOM	5993	C	ARG	794	3.917	93.607	49.761	1.00	88.58	C
ATOM	5994	O	ARG	794	3.522	94.223	50.750	1.00	88.58	O
ATOM	5995	N	SER	795	4.489	92.388	49.862	1.00	53.48	N
ATOM	5996	CA	SER	795	4.575	91.722	51.131	1.00	53.48	C
ATOM	5997	CB	SER	795	5.074	90.273	51.055	1.00	53.48	C
ATOM	5998	OG	SER	795	5.112	89.729	52.366	1.00	53.48	O
ATOM	5999	C	SER	795	5.529	92.457	52.012	1.00	53.48	C
ATOM	6000	O	SER	795	5.372	92.462	53.232	1.00	53.48	O
ATOM	6001	N	MET	796	6.556	93.091	51.417	1.00	61.71	N
ATOM	6002	CA	MET	796	7.539	93.778	52.200	1.00	61.71	C
ATOM	6003	CB	MET	796	8.674	94.383	51.351	1.00	61.71	C
ATOM	6004	CG	MET	796	9.601	93.338	50.722	1.00	61.71	C
ATOM	6005	SD	MET	796	10.946	94.036	49.715	1.00	61.71	S
ATOM	6006	CE	MET	796	11.795	92.455	49.434	1.00	61.71	C
ATOM	6007	C	MET	796	6.885	94.903	52.957	1.00	61.71	C
ATOM	6008	O	MET	796	7.123	95.073	54.150	1.00	61.71	O
ATOM	6009	N	LEU	797	6.016	95.683	52.287	1.00	75.92	N
ATOM	6010	CA	LEU	797	5.351	96.815	52.876	1.00	75.92	C
ATOM	6011	CB	LEU	797	4.555	97.647	51.855	1.00	75.92	C
ATOM	6012	CG	LEU	797	5.448	98.304	50.783	1.00	75.92	C
ATOM	6013	CD1	LEU	797	4.625	99.177	49.823	1.00	75.92	C
ATOM	6014	CD2	LEU	797	6.625	99.061	51.420	1.00	75.92	C
ATOM	6015	C	LEU	797	4.397	96.357	53.941	1.00	75.92	C
ATOM	6016	O	LEU	797	4.084	97.103	54.866	1.00	75.92	O
ATOM	6017	N	ARG	798	3.860	95.134	53.801	1.00	90.97	N
ATOM	6018	CA	ARG	798	2.921	94.583	54.738	1.00	90.97	C
ATOM	6019	CB	ARG	798	2.381	93.223	54.257	1.00	90.97	C
ATOM	6020	CG	ARG	798	1.328	92.568	55.154	1.00	90.97	C
ATOM	6021	CD	ARG	798	0.751	91.290	54.533	1.00	90.97	C
ATOM	6022	NE	ARG	798	-0.236	90.706	55.484	1.00	90.97	N
ATOM	6023	CZ	ARG	798	-0.972	89.616	55.113	1.00	90.97	C
ATOM	6024	NH1	ARG	798	-0.803	89.071	53.874	1.00	90.97	N
ATOM	6025	NH2	ARG	798	-1.874	89.068	55.978	1.00	90.97	N
ATOM	6026	C	ARG	798	3.587	94.402	56.074	1.00	90.97	C
ATOM	6027	O	ARG	798	2.954	94.562	57.117	1.00	90.97	O
ATOM	6028	N	GLN	799	4.894	94.077	56.075	1.00	79.46	N
ATOM	6029	CA	GLN	799	5.601	93.756	57.287	1.00	79.46	C
ATOM	6030	CB	GLN	799	7.065	93.342	57.055	1.00	79.46	C
ATOM	6031	CG	GLN	799	7.231	92.125	56.142	1.00	79.46	C
ATOM	6032	CD	GLN	799	6.693	90.878	56.836	1.00	79.46	C
ATOM	6033	OE1	GLN	799	6.808	89.773	56.312	1.00	79.46	O
ATOM	6034	NE2	GLN	799	6.091	91.040	58.044	1.00	79.46	N
ATOM	6035	C	GLN	799	5.620	94.916	58.232	1.00	79.46	C
ATOM	6036	O	GLN	799	5.514	96.077	57.840	1.00	79.46	O

ATOM	6037	N	ASP	800	5.723	94.596	59.539	1.00	58.40	N
ATOM	6038	CA	ASP	800	5.791	95.592	60.568	1.00	58.40	C
ATOM	6039	CB	ASP	800	5.206	95.134	61.921	1.00	58.40	C
ATOM	6040	CG	ASP	800	5.921	93.878	62.403	1.00	58.40	C
ATOM	6041	OD1	ASP	800	6.617	93.224	61.582	1.00	58.40	O
ATOM	6042	OD2	ASP	800	5.762	93.547	63.609	1.00	58.40	O
ATOM	6043	C	ASP	800	7.216	96.039	60.735	1.00	58.40	C
ATOM	6044	O	ASP	800	8.138	95.492	60.133	1.00	58.40	O
ATOM	6045	N	VAL	801	7.422	97.055	61.594	1.00	57.60	N
ATOM	6046	CA	VAL	801	8.680	97.730	61.768	1.00	57.60	C
ATOM	6047	CB	VAL	801	8.567	98.870	62.735	1.00	57.60	C
ATOM	6048	CG1	VAL	801	9.954	99.503	62.937	1.00	57.60	C
ATOM	6049	CG2	VAL	801	7.504	99.844	62.199	1.00	57.60	C
ATOM	6050	C	VAL	801	9.752	96.811	62.269	1.00	57.60	C
ATOM	6051	O	VAL	801	10.917	96.968	61.907	1.00	57.60	O
ATOM	6052	N	SER	802	9.407	95.829	63.119	1.00	45.45	N
ATOM	6053	CA	SER	802	10.419	94.983	63.687	1.00	45.45	C
ATOM	6054	CB	SER	802	9.834	93.901	64.614	1.00	45.45	C
ATOM	6055	OG	SER	802	8.978	93.035	63.884	1.00	45.45	O
ATOM	6056	C	SER	802	11.183	94.299	62.595	1.00	45.45	C
ATOM	6057	O	SER	802	12.362	93.996	62.764	1.00	45.45	O
ATOM	6058	N	TRP	803	10.531	94.021	61.452	1.00	80.95	N
ATOM	6059	CA	TRP	803	11.175	93.348	60.355	1.00	80.95	C
ATOM	6060	CB	TRP	803	10.169	92.990	59.244	1.00	80.95	C
ATOM	6061	CG	TRP	803	10.689	92.076	58.160	1.00	80.95	C
ATOM	6062	CD2	TRP	803	10.872	92.445	56.783	1.00	80.95	C
ATOM	6063	CD1	TRP	803	11.005	90.752	58.249	1.00	80.95	C
ATOM	6064	NE1	TRP	803	11.372	90.271	57.016	1.00	80.95	N
ATOM	6065	CE2	TRP	803	11.292	91.301	56.103	1.00	80.95	C
ATOM	6066	CE3	TRP	803	10.692	93.633	56.135	1.00	80.95	C
ATOM	6067	CZ2	TRP	803	11.539	91.328	54.759	1.00	80.95	C
ATOM	6068	CZ3	TRP	803	10.954	93.659	54.783	1.00	80.95	C
ATOM	6069	CH2	TRP	803	11.368	92.528	54.107	1.00	80.95	C
ATOM	6070	C	TRP	803	12.249	94.226	59.775	1.00	80.95	C
ATOM	6071	O	TRP	803	13.365	93.775	59.519	1.00	80.95	O
ATOM	6072	N	PHE	804	11.931	95.519	59.576	1.00	69.69	N
ATOM	6073	CA	PHE	804	12.820	96.497	59.005	1.00	69.69	C
ATOM	6074	CB	PHE	804	12.135	97.853	58.746	1.00	69.69	C
ATOM	6075	CG	PHE	804	11.197	97.651	57.604	1.00	69.69	C
ATOM	6076	CD1	PHE	804	11.659	97.718	56.309	1.00	69.69	C
ATOM	6077	CD2	PHE	804	9.863	97.392	57.821	1.00	69.69	C
ATOM	6078	CE1	PHE	804	10.807	97.532	55.246	1.00	69.69	C
ATOM	6079	CE2	PHE	804	9.005	97.205	56.763	1.00	69.69	C
ATOM	6080	CZ	PHE	804	9.476	97.274	55.473	1.00	69.69	C
ATOM	6081	C	PHE	804	13.964	96.717	59.944	1.00	69.69	C
ATOM	6082	O	PHE	804	15.047	97.115	59.520	1.00	69.69	O
ATOM	6083	N	ASP	805	13.718	96.526	61.254	1.00	69.37	N
ATOM	6084	CA	ASP	805	14.685	96.704	62.304	1.00	69.37	C
ATOM	6085	CB	ASP	805	14.072	96.565	63.711	1.00	69.37	C
ATOM	6086	CG	ASP	805	13.168	97.761	63.980	1.00	69.37	C
ATOM	6087	OD1	ASP	805	13.051	98.634	63.080	1.00	69.37	O
ATOM	6088	OD2	ASP	805	12.586	97.818	65.097	1.00	69.37	O
ATOM	6089	C	ASP	805	15.793	95.686	62.215	1.00	69.37	C
ATOM	6090	O	ASP	805	16.887	95.929	62.724	1.00	69.37	O
ATOM	6091	N	ASP	806	15.536	94.507	61.612	1.00	60.46	N
ATOM	6092	CA	ASP	806	16.485	93.421	61.555	1.00	60.46	C
ATOM	6093	CB	ASP	806	15.890	92.197	60.825	1.00	60.46	C
ATOM	6094	CG	ASP	806	16.717	90.945	61.083	1.00	60.46	C
ATOM	6095	OD1	ASP	806	17.961	90.987	60.899	1.00	60.46	O
ATOM	6096	OD2	ASP	806	16.101	89.917	61.473	1.00	60.46	O
ATOM	6097	C	ASP	806	17.725	93.857	60.826	1.00	60.46	C
ATOM	6098	O	ASP	806	17.673	94.666	59.900	1.00	60.46	O
ATOM	6099	N	PRO	807	18.861	93.373	61.268	1.00	69.51	N
ATOM	6100	CA	PRO	807	20.098	93.701	60.608	1.00	69.51	C
ATOM	6101	CD	PRO	807	19.055	93.079	62.679	1.00	69.51	C
ATOM	6102	CB	PRO	807	21.204	93.239	61.554	1.00	69.51	C
ATOM	6103	CG	PRO	807	20.550	93.317	62.946	1.00	69.51	C
ATOM	6104	C	PRO	807	20.184	93.098	59.241	1.00	69.51	C
ATOM	6105	O	PRO	807	20.848	93.669	58.377	1.00	69.51	O
ATOM	6106	N	LYS	808	19.554	91.926	59.042	1.00	164.89	N
ATOM	6107	CA	LYS	808	19.604	91.216	57.799	1.00	164.89	C
ATOM	6108	CB	LYS	808	19.060	89.784	57.922	1.00	164.89	C
ATOM	6109	CG	LYS	808	19.713	89.010	59.072	1.00	164.89	C
ATOM	6110	CD	LYS	808	21.244	88.999	59.044	1.00	164.89	C

ATOM	6111	CE	LYS	808	21.856	87.722	58.464	1.00164.89
ATOM	6112	NZ	LYS	808	22.080	87.877	57.009	1.00164.89
ATOM	6113	C	LYS	808	18.816	91.940	56.749	1.00164.89
ATOM	6114	O	LYS	808	19.224	91.977	55.590	1.00164.89
ATOM	6115	N	ASN	809	17.665	92.536	57.130	1.00136.92
ATOM	6116	CA	ASN	809	16.787	93.130	56.159	1.00136.92
ATOM	6117	CB	ASN	809	15.314	93.062	56.592	1.00136.92
ATOM	6118	CG	ASN	809	14.953	91.591	56.735	1.00136.92
ATOM	6119	OD1	ASN	809	15.540	90.729	56.083	1.00136.92
ATOM	6120	ND2	ASN	809	13.963	91.291	57.618	1.00136.92
ATOM	6121	C	ASN	809	17.130	94.571	55.963	1.00136.92
ATOM	6122	O	ASN	809	16.343	95.467	56.271	1.00136.92
ATOM	6123	N	THR	810	18.305	94.824	55.370	1.00114.36
ATOM	6124	CA	THR	810	18.715	96.169	55.128	1.00114.36
ATOM	6125	CB	THR	810	20.203	96.290	55.007	1.00114.36
ATOM	6126	OG1	THR	810	20.587	97.652	54.976	1.00114.36
ATOM	6127	CG2	THR	810	20.655	95.568	53.728	1.00114.36
ATOM	6128	C	THR	810	18.086	96.595	53.837	1.00114.36
ATOM	6129	O	THR	810	17.654	95.763	53.039	1.00114.36
ATOM	6130	N	THR	811	18.035	97.919	53.596	1.00113.05
ATOM	6131	CA	THR	811	17.382	98.447	52.436	1.00113.05
ATOM	6132	CB	THR	811	17.419	99.949	52.380	1.00113.05
ATOM	6133	OG1	THR	811	16.635	100.417	51.293	1.00113.05
ATOM	6134	CG2	THR	811	18.877	100.415	52.231	1.00113.05
ATOM	6135	C	THR	811	18.040	97.914	51.201	1.00113.05
ATOM	6136	O	THR	811	17.355	97.615	50.223	1.00113.05
ATOM	6137	N	GLY	812	19.387	97.833	51.196	1.00 37.04
ATOM	6138	CA	GLY	812	20.132	97.336	50.066	1.00 37.04
ATOM	6139	C	GLY	812	19.925	95.861	49.858	1.00 37.04
ATOM	6140	O	GLY	812	19.730	95.399	48.734	1.00 37.04
ATOM	6141	N	ALA	813	19.967	95.077	50.950	1.00 43.69
ATOM	6142	CA	ALA	813	19.867	93.645	50.870	1.00 43.69
ATOM	6143	CB	ALA	813	19.981	92.971	52.249	1.00 43.69
ATOM	6144	C	ALA	813	18.532	93.300	50.310	1.00 43.69
ATOM	6145	O	ALA	813	18.390	92.312	49.593	1.00 43.69
ATOM	6146	N	LEU	814	17.504	94.080	50.687	1.00 68.49
ATOM	6147	CA	LEU	814	16.173	93.865	50.206	1.00 68.49
ATOM	6148	CB	LEU	814	15.129	94.737	50.924	1.00 68.49
ATOM	6149	CG	LEU	814	14.912	94.352	52.400	1.00 68.49
ATOM	6150	CD1	LEU	814	13.859	95.254	53.065	1.00 68.49
ATOM	6151	CD2	LEU	814	14.577	92.856	52.536	1.00 68.49
ATOM	6152	C	LEU	814	16.098	94.182	48.747	1.00 68.49
ATOM	6153	O	LEU	814	15.435	93.480	47.983	1.00 68.49
ATOM	6154	N	THR	815	16.769	95.262	48.308	1.00122.99
ATOM	6155	CA	THR	815	16.664	95.607	46.924	1.00122.99
ATOM	6156	CB	THR	815	17.331	96.909	46.578	1.00122.99
ATOM	6157	OG1	THR	815	16.845	97.383	45.334	1.00122.99
ATOM	6158	CG2	THR	815	18.850	96.706	46.490	1.00122.99
ATOM	6159	C	THR	815	17.265	94.496	46.113	1.00122.99
ATOM	6160	O	THR	815	16.735	94.129	45.066	1.00122.99
ATOM	6161	N	THR	816	18.391	93.917	46.578	1.00 52.60
ATOM	6162	CA	THR	816	19.021	92.851	45.842	1.00 52.60
ATOM	6163	CB	THR	816	20.306	92.376	46.452	1.00 52.60
ATOM	6164	OG1	THR	816	21.230	93.450	46.551	1.00 52.60
ATOM	6165	CG2	THR	816	20.880	91.262	45.555	1.00 52.60
ATOM	6166	C	THR	816	18.103	91.668	45.790	1.00 52.60
ATOM	6167	O	THR	816	17.917	91.050	44.741	1.00 52.60
ATOM	6168	N	ARG	817	17.483	91.335	46.934	1.00185.93
ATOM	6169	CA	ARG	817	16.615	90.196	46.996	1.00185.93
ATOM	6170	CB	ARG	817	15.979	90.021	48.386	1.00185.93
ATOM	6171	CG	ARG	817	15.101	88.776	48.513	1.00185.93
ATOM	6172	CD	ARG	817	15.907	87.482	48.431	1.00185.93
ATOM	6173	NE	ARG	817	17.223	87.759	49.074	1.00185.93
ATOM	6174	CZ	ARG	817	17.337	87.729	50.434	1.00185.93
ATOM	6175	NH1	ARG	817	16.242	87.452	51.202	1.00185.93
ATOM	6176	NH2	ARG	817	18.539	87.986	51.026	1.00185.93
ATOM	6177	C	ARG	817	15.498	90.445	46.038	1.00185.93
ATOM	6178	O	ARG	817	14.987	89.530	45.394	1.00185.93
ATOM	6179	N	LEU	818	15.052	91.709	45.974	1.00 94.06
ATOM	6180	CA	LEU	818	13.985	92.096	45.103	1.00 94.06
ATOM	6181	CB	LEU	818	13.447	93.505	45.428	1.00 94.06
ATOM	6182	CG	LEU	818	12.245	93.948	44.570	1.00 94.06
ATOM	6183	CD1	LEU	818	11.038	93.017	44.774	1.00 94.06
ATOM	6184	CD2	LEU	818	11.889	95.421	44.833	1.00 94.06

ATOM	6185	C	LEU	818	14.418	92.070	43.661	1.00	94.06	C
ATOM	6186	O	LEU	818	13.597	91.812	42.784	1.00	94.06	O
ATOM	6187	N	ALA	819	15.669	92.474	43.347	1.00	104.47	N
ATOM	6188	CA	ALA	819	16.040	92.535	41.958	1.00	104.47	C
ATOM	6189	CB	ALA	819	17.256	93.448	41.725	1.00	104.47	C
ATOM	6190	C	ALA	819	16.341	91.222	41.259	1.00	104.47	C
ATOM	6191	O	ALA	819	15.605	90.793	40.373	1.00	104.47	O
ATOM	6192	N	ASN	820	17.439	90.549	41.670	1.00	173.34	N
ATOM	6193	CA	ASN	820	17.989	89.375	41.024	1.00	173.34	C
ATOM	6194	CB	ASN	820	19.476	89.250	41.401	1.00	173.34	C
ATOM	6195	CG	ASN	820	20.031	87.930	40.918	1.00	173.34	C
ATOM	6196	OD1	ASN	820	19.767	86.887	41.512	1.00	173.34	O
ATOM	6197	ND2	ASN	820	20.841	87.972	39.827	1.00	173.34	N
ATOM	6198	C	ASN	820	17.315	88.089	41.370	1.00	173.34	C
ATOM	6199	O	ASN	820	16.943	87.293	40.504	1.00	173.34	O
ATOM	6200	N	ASP	821	17.156	87.864	42.681	1.00	86.85	N
ATOM	6201	CA	ASP	821	16.665	86.611	43.163	1.00	86.85	C
ATOM	6202	CB	ASP	821	16.674	86.510	44.701	1.00	86.85	C
ATOM	6203	CG	ASP	821	18.115	86.322	45.165	1.00	86.85	C
ATOM	6204	OD1	ASP	821	18.857	85.556	44.494	1.00	86.85	O
ATOM	6205	OD2	ASP	821	18.496	86.945	46.192	1.00	86.85	O
ATOM	6206	C	ASP	821	15.266	86.430	42.689	1.00	86.85	C
ATOM	6207	O	ASP	821	14.827	85.311	42.436	1.00	86.85	O
ATOM	6208	N	ALA	822	14.523	87.535	42.545	1.00	64.75	N
ATOM	6209	CA	ALA	822	13.146	87.436	42.163	1.00	64.75	C
ATOM	6210	CB	ALA	822	12.447	88.805	42.084	1.00	64.75	C
ATOM	6211	C	ALA	822	13.009	86.782	40.809	1.00	64.75	C
ATOM	6212	O	ALA	822	12.020	86.095	40.559	1.00	64.75	O
ATOM	6213	N	ALA	823	13.929	87.073	39.865	1.00	90.51	N
ATOM	6214	CA	ALA	823	13.926	86.545	38.515	1.00	90.51	C
ATOM	6215	CB	ALA	823	14.826	87.362	37.572	1.00	90.51	C
ATOM	6216	C	ALA	823	14.333	85.098	38.348	1.00	90.51	C
ATOM	6217	O	ALA	823	13.768	84.373	37.529	1.00	90.51	O
ATOM	6218	N	GLN	824	15.340	84.641	39.109	1.00	120.54	N
ATOM	6219	CA	GLN	824	15.982	83.364	38.915	1.00	120.54	C
ATOM	6220	CB	GLN	824	17.250	83.177	39.758	1.00	120.54	C
ATOM	6221	CG	GLN	824	18.350	84.164	39.364	1.00	120.54	C
ATOM	6222	CD	GLN	824	19.663	83.601	39.871	1.00	120.54	C
ATOM	6223	OE1	GLN	824	19.738	82.427	40.226	1.00	120.54	O
ATOM	6224	NE2	GLN	824	20.730	84.443	39.891	1.00	120.54	N
ATOM	6225	C	GLN	824	15.069	82.197	39.141	1.00	120.54	C
ATOM	6226	O	GLN	824	15.385	81.080	38.733	1.00	120.54	O
ATOM	6227	N	VAL	825	13.941	82.409	39.835	1.00	134.23	N
ATOM	6228	CA	VAL	825	13.036	81.354	40.208	1.00	134.23	C
ATOM	6229	CB	VAL	825	11.848	81.866	40.968	1.00	134.23	C
ATOM	6230	CG1	VAL	825	11.034	82.792	40.049	1.00	134.23	C
ATOM	6231	CG2	VAL	825	11.056	80.664	41.509	1.00	134.23	C
ATOM	6232	C	VAL	825	12.526	80.573	39.013	1.00	134.23	C
ATOM	6233	O	VAL	825	12.272	79.374	39.115	1.00	134.23	O
ATOM	6234	N	LYS	826	12.385	81.208	37.838	1.00	144.60	N
ATOM	6235	CA	LYS	826	11.774	80.592	36.683	1.00	144.60	C
ATOM	6236	CB	LYS	826	11.689	81.559	35.486	1.00	144.60	C
ATOM	6237	CG	LYS	826	13.024	82.180	35.072	1.00	144.60	C
ATOM	6238	CD	LYS	826	12.920	83.011	33.791	1.00	144.60	C
ATOM	6239	CE	LYS	826	14.238	83.657	33.366	1.00	144.60	C
ATOM	6240	NZ	LYS	826	15.149	82.626	32.823	1.00	144.60	N
ATOM	6241	C	LYS	826	12.466	79.323	36.252	1.00	144.60	C
ATOM	6242	O	LYS	826	11.843	78.449	35.646	1.00	144.60	O
ATOM	6243	N	GLY	827	13.775	79.191	36.516	1.00	85.92	N
ATOM	6244	CA	GLY	827	14.518	78.014	36.143	1.00	85.92	C
ATOM	6245	C	GLY	827	13.977	76.805	36.851	1.00	85.92	C
ATOM	6246	O	GLY	827	14.296	75.679	36.480	1.00	85.92	O
ATOM	6247	N	ALA	828	13.375	77.019	38.032	1.00	141.60	N
ATOM	6248	CA	ALA	828	12.726	76.056	38.887	1.00	141.60	C
ATOM	6249	CB	ALA	828	12.718	76.498	40.361	1.00	141.60	C
ATOM	6250	C	ALA	828	11.303	75.662	38.548	1.00	141.60	C
ATOM	6251	O	ALA	828	10.812	74.704	39.146	1.00	141.60	O
ATOM	6252	N	ILE	829	10.484	76.524	37.897	1.00	180.21	N
ATOM	6253	CA	ILE	829	9.152	76.010	37.668	1.00	180.21	C
ATOM	6254	CB	ILE	829	8.073	77.014	37.950	1.00	180.21	C
ATOM	6255	CG1	ILE	829	6.722	76.301	37.817	1.00	180.21	C
ATOM	6256	CG2	ILE	829	8.255	78.261	37.065	1.00	180.21	C
ATOM	6257	CD1	ILE	829	5.563	77.070	38.429	1.00	180.21	C
ATOM	6258	C	ILE	829	8.836	75.337	36.348	1.00	180.21	C

ATOM	6259	O	ILE	829	8.699	74.116	36.266	1.00180.21	O
ATOM	6260	N	GLY	830	8.736	76.149	35.264	1.00 66.71	N
ATOM	6261	CA	GLY	830	8.332	75.716	33.951	1.00 66.71	C
ATOM	6262	C	GLY	830	9.425	75.002	33.246	1.00 66.71	C
ATOM	6263	O	GLY	830	9.197	74.036	32.519	1.00 66.71	O
ATOM	6264	N	SER	831	10.650	75.518	33.417	1.00 59.22	N
ATOM	6265	CA	SER	831	11.783	74.974	32.735	1.00 59.22	C
ATOM	6266	CB	SER	831	13.091	75.710	33.078	1.00 59.22	C
ATOM	6267	OG	SER	831	13.024	77.057	32.634	1.00 59.22	O
ATOM	6268	C	SER	831	11.953	73.558	33.159	1.00 59.22	C
ATOM	6269	O	SER	831	12.284	72.690	32.353	1.00 59.22	O
ATOM	6270	N	ARG	832	11.716	73.277	34.448	1.00166.17	N
ATOM	6271	CA	ARG	832	11.944	71.939	34.891	1.00166.17	C
ATOM	6272	CB	ARG	832	11.835	71.741	36.409	1.00166.17	C
ATOM	6273	CG	ARG	832	12.617	70.500	36.842	1.00166.17	C
ATOM	6274	CD	ARG	832	14.108	70.658	36.535	1.00166.17	C
ATOM	6275	NE	ARG	832	14.817	69.407	36.906	1.00166.17	N
ATOM	6276	CZ	ARG	832	16.013	69.145	36.305	1.00166.17	C
ATOM	6277	NH1	ARG	832	16.532	70.044	35.419	1.00166.17	N
ATOM	6278	NH2	ARG	832	16.681	67.988	36.577	1.00166.17	N
ATOM	6279	C	ARG	832	10.967	71.020	34.220	1.00166.17	C
ATOM	6280	O	ARG	832	11.307	69.889	33.889	1.00166.17	O
ATOM	6281	N	LEU	833	9.714	71.469	34.021	1.00 69.00	N
ATOM	6282	CA	LEU	833	8.701	70.654	33.408	1.00 69.00	C
ATOM	6283	CB	LEU	833	7.310	71.306	33.452	1.00 69.00	C
ATOM	6284	CG	LEU	833	6.798	71.544	34.886	1.00 69.00	C
ATOM	6285	CD1	LEU	833	5.336	72.021	34.882	1.00 69.00	C
ATOM	6286	CD2	LEU	833	7.032	70.315	35.780	1.00 69.00	C
ATOM	6287	C	LEU	833	9.039	70.402	31.968	1.00 69.00	C
ATOM	6288	O	LEU	833	8.828	69.306	31.449	1.00 69.00	O
ATOM	6289	N	ALA	834	9.570	71.422	31.271	1.00 46.93	N
ATOM	6290	CA	ALA	834	9.893	71.254	29.889	1.00 46.93	C
ATOM	6291	CB	ALA	834	10.496	72.522	29.253	1.00 46.93	C
ATOM	6292	C	ALA	834	10.903	70.152	29.768	1.00 46.93	C
ATOM	6293	O	ALA	834	10.834	69.339	28.848	1.00 46.93	O
ATOM	6294	N	VAL	835	11.880	70.101	30.693	1.00 81.70	N
ATOM	6295	CA	VAL	835	12.895	69.084	30.627	1.00 81.70	C
ATOM	6296	CB	VAL	835	13.917	69.210	31.724	1.00 81.70	C
ATOM	6297	CG1	VAL	835	14.855	67.991	31.669	1.00 81.70	C
ATOM	6298	CG2	VAL	835	14.644	70.557	31.571	1.00 81.70	C
ATOM	6299	C	VAL	835	12.281	67.717	30.765	1.00 81.70	C
ATOM	6300	O	VAL	835	12.409	66.867	29.881	1.00 81.70	O
ATOM	6301	N	ILE	836	11.526	67.489	31.858	1.00113.06	N
ATOM	6302	CA	ILE	836	11.052	66.158	32.116	1.00113.06	C
ATOM	6303	CB	ILE	836	10.327	65.973	33.422	1.00113.06	C
ATOM	6304	CG1	ILE	836	11.300	66.043	34.616	1.00113.06	C
ATOM	6305	CG2	ILE	836	9.582	64.627	33.338	1.00113.06	C
ATOM	6306	CD1	ILE	836	11.930	67.409	34.863	1.00113.06	C
ATOM	6307	C	ILE	836	10.141	65.697	31.029	1.00113.06	C
ATOM	6308	O	ILE	836	10.236	64.558	30.574	1.00113.06	O
ATOM	6309	N	THR	837	9.231	66.573	30.579	1.00 40.57	N
ATOM	6310	CA	THR	837	8.283	66.190	29.578	1.00 40.57	C
ATOM	6311	CB	THR	837	7.313	67.290	29.273	1.00 40.57	C
ATOM	6312	OG1	THR	837	6.603	67.658	30.447	1.00 40.57	O
ATOM	6313	CG2	THR	837	6.338	66.790	28.201	1.00 40.57	C
ATOM	6314	C	THR	837	9.002	65.850	28.307	1.00 40.57	C
ATOM	6315	O	THR	837	8.630	64.906	27.612	1.00 40.57	O
ATOM	6316	N	GLN	838	10.037	66.632	27.946	1.00108.23	N
ATOM	6317	CA	GLN	838	10.744	66.358	26.727	1.00108.23	C
ATOM	6318	CB	GLN	838	11.833	67.391	26.393	1.00108.23	C
ATOM	6319	CG	GLN	838	11.313	68.794	26.096	1.00108.23	C
ATOM	6320	CD	GLN	838	12.480	69.602	25.548	1.00108.23	C
ATOM	6321	OE1	GLN	838	12.820	70.663	26.068	1.00108.23	O
ATOM	6322	NE2	GLN	838	13.110	69.088	24.457	1.00108.23	N
ATOM	6323	C	GLN	838	11.465	65.050	26.827	1.00108.23	C
ATOM	6324	O	GLN	838	11.428	64.236	25.905	1.00108.23	O
ATOM	6325	N	ASN	839	12.146	64.810	27.960	1.00 59.81	N
ATOM	6326	CA	ASN	839	12.944	63.622	28.073	1.00 59.81	C
ATOM	6327	CB	ASN	839	13.764	63.573	29.375	1.00 59.81	C
ATOM	6328	CG	ASN	839	14.853	64.635	29.290	1.00 59.81	C
ATOM	6329	OD1	ASN	839	15.103	65.202	28.228	1.00 59.81	O
ATOM	6330	ND2	ASN	839	15.531	64.905	30.438	1.00 59.81	N
ATOM	6331	C	ASN	839	12.066	62.415	28.039	1.00 59.81	C
ATOM	6332	O	ASN	839	12.381	61.418	27.387	1.00 59.81	O

ATOM	6333	N	ILE	840	10.932	62.472	28.753	1.00134.33	N
ATOM	6334	CA	ILE	840	10.074	61.329	28.794	1.00134.33	C
ATOM	6335	CB	ILE	840	8.952	61.489	29.792	1.00134.33	C
ATOM	6336	CG1	ILE	840	8.310	60.128	30.092	1.00134.33	C
ATOM	6337	CG2	ILE	840	7.968	62.565	29.305	1.00134.33	C
ATOM	6338	CD1	ILE	840	9.223	59.209	30.903	1.00134.33	C
ATOM	6339	C	ILE	840	9.524	61.090	27.422	1.00134.33	C
ATOM	6340	O	ILE	840	9.520	59.967	26.920	1.00134.33	O
ATOM	6341	N	ALA	841	9.092	62.170	26.752	1.00 56.45	N
ATOM	6342	CA	ALA	841	8.455	62.050	25.478	1.00 56.45	C
ATOM	6343	CB	ALA	841	7.980	63.403	24.922	1.00 56.45	C
ATOM	6344	C	ALA	841	9.397	61.459	24.477	1.00 56.45	C
ATOM	6345	O	ALA	841	8.954	60.728	23.594	1.00 56.45	O
ATOM	6346	N	ASN	842	10.695	61.835	24.488	1.00151.42	N
ATOM	6347	CA	ASN	842	11.516	61.226	23.480	1.00151.42	C
ATOM	6348	CB	ASN	842	12.735	62.059	23.033	1.00151.42	C
ATOM	6349	CG	ASN	842	13.822	62.064	24.085	1.00151.42	C
ATOM	6350	OD1	ASN	842	14.844	61.403	23.917	1.00151.42	O
ATOM	6351	ND2	ASN	842	13.615	62.836	25.185	1.00151.42	N
ATOM	6352	C	ASN	842	11.965	59.829	23.829	1.00151.42	C
ATOM	6353	O	ASN	842	11.677	58.879	23.104	1.00151.42	O
ATOM	6354	N	LEU	843	12.642	59.656	24.985	1.00132.01	N
ATOM	6355	CA	LEU	843	13.211	58.381	25.340	1.00132.01	C
ATOM	6356	CB	LEU	843	14.132	58.464	26.576	1.00132.01	C
ATOM	6357	CG	LEU	843	14.924	57.175	26.894	1.00132.01	C
ATOM	6358	CD1	LEU	843	14.024	56.038	27.398	1.00132.01	C
ATOM	6359	CD2	LEU	843	15.794	56.753	25.699	1.00132.01	C
ATOM	6360	C	LEU	843	12.111	57.408	25.620	1.00132.01	C
ATOM	6361	O	LEU	843	12.234	56.219	25.328	1.00132.01	O
ATOM	6362	N	GLY	844	11.013	57.878	26.239	1.00 36.48	N
ATOM	6363	CA	GLY	844	9.961	56.960	26.570	1.00 36.48	C
ATOM	6364	C	GLY	844	9.341	56.394	25.328	1.00 36.48	C
ATOM	6365	O	GLY	844	9.202	55.181	25.187	1.00 36.48	O
ATOM	6366	N	THR	845	8.955	57.267	24.381	1.00 42.93	N
ATOM	6367	CA	THR	845	8.311	56.830	23.174	1.00 42.93	C
ATOM	6368	CB	THR	845	7.765	57.960	22.352	1.00 42.93	C
ATOM	6369	OG1	THR	845	8.820	58.792	21.894	1.00 42.93	O
ATOM	6370	CG2	THR	845	6.786	58.770	23.219	1.00 42.93	C
ATOM	6371	C	THR	845	9.311	56.107	22.331	1.00 42.93	C
ATOM	6372	O	THR	845	8.964	55.185	21.595	1.00 42.93	O
ATOM	6373	N	GLY	846	10.581	56.545	22.381	1.00 30.25	N
ATOM	6374	CA	GLY	846	11.606	55.933	21.588	1.00 30.25	C
ATOM	6375	C	GLY	846	11.796	54.517	22.018	1.00 30.25	C
ATOM	6376	O	GLY	846	12.002	53.629	21.192	1.00 30.25	O
ATOM	6377	N	ILE	847	11.760	54.268	23.337	1.00 94.64	N
ATOM	6378	CA	ILE	847	11.974	52.933	23.799	1.00 94.64	C
ATOM	6379	CB	ILE	847	12.103	52.831	25.292	1.00 94.64	C
ATOM	6380	CG1	ILE	847	12.772	51.500	25.655	1.00 94.64	C
ATOM	6381	CG2	ILE	847	10.723	53.026	25.940	1.00 94.64	C
ATOM	6382	CD1	ILE	847	13.274	51.445	27.093	1.00 94.64	C
ATOM	6383	C	ILE	847	10.852	52.055	23.327	1.00 94.64	C
ATOM	6384	O	ILE	847	11.083	50.934	22.878	1.00 94.64	O
ATOM	6385	N	ILE	848	9.601	52.552	23.389	1.00138.77	N
ATOM	6386	CA	ILE	848	8.474	51.728	23.053	1.00138.77	C
ATOM	6387	CB	ILE	848	7.146	52.377	23.370	1.00138.77	C
ATOM	6388	CG1	ILE	848	6.872	53.659	22.560	1.00138.77	C
ATOM	6389	CG2	ILE	848	7.126	52.610	24.887	1.00138.77	C
ATOM	6390	CD1	ILE	848	6.318	53.418	21.155	1.00138.77	C
ATOM	6391	C	ILE	848	8.518	51.308	21.612	1.00138.77	C
ATOM	6392	O	ILE	848	8.306	50.137	21.301	1.00138.77	O
ATOM	6393	N	ILE	849	8.829	52.238	20.691	1.00 39.97	N
ATOM	6394	CA	ILE	849	8.792	51.925	19.291	1.00 39.97	C
ATOM	6395	CB	ILE	849	9.076	53.124	18.433	1.00 39.97	C
ATOM	6396	CG1	ILE	849	7.989	54.193	18.639	1.00 39.97	C
ATOM	6397	CG2	ILE	849	9.212	52.655	16.977	1.00 39.97	C
ATOM	6398	CD1	ILE	849	8.342	55.547	18.025	1.00 39.97	C
ATOM	6399	C	ILE	849	9.820	50.883	18.977	1.00 39.97	C
ATOM	6400	O	ILE	849	9.540	49.911	18.277	1.00 39.97	O
ATOM	6401	N	SER	850	11.037	51.051	19.520	1.00 93.54	N
ATOM	6402	CA	SER	850	12.138	50.175	19.238	1.00 93.54	C
ATOM	6403	CB	SER	850	13.388	50.530	20.054	1.00 93.54	C
ATOM	6404	OG	SER	850	13.718	51.897	19.878	1.00 93.54	O
ATOM	6405	C	SER	850	11.793	48.784	19.664	1.00 93.54	C
ATOM	6406	O	SER	850	12.168	47.818	19.003	1.00 93.54	O

ATOM	6407	N	PHE	851	11.088	48.638	20.800	1.00	54.00	N
ATOM	6408	CA	PHE	851	10.801	47.313	21.272	1.00	54.00	C
ATOM	6409	CB	PHE	851	10.130	47.257	22.657	1.00	54.00	C
ATOM	6410	CG	PHE	851	11.208	47.347	23.682	1.00	54.00	C
ATOM	6411	CD1	PHE	851	11.706	48.559	24.099	1.00	54.00	C
ATOM	6412	CD2	PHE	851	11.725	46.195	24.228	1.00	54.00	C
ATOM	6413	CE1	PHE	851	12.702	48.615	25.046	1.00	54.00	C
ATOM	6414	CE2	PHE	851	12.721	46.245	25.175	1.00	54.00	C
ATOM	6415	CZ	PHE	851	13.211	47.459	25.587	1.00	54.00	C
ATOM	6416	C	PHE	851	9.931	46.566	20.310	1.00	54.00	C
ATOM	6417	O	PHE	851	10.205	45.409	19.997	1.00	54.00	O
ATOM	6418	N	ILE	852	8.854	47.201	19.817	1.00	114.11	N
ATOM	6419	CA	ILE	852	7.941	46.516	18.946	1.00	114.11	C
ATOM	6420	CB	ILE	852	6.712	47.324	18.644	1.00	114.11	C
ATOM	6421	CG1	ILE	852	5.731	46.478	17.826	1.00	114.11	C
ATOM	6422	CG2	ILE	852	7.126	48.641	17.968	1.00	114.11	C
ATOM	6423	CD1	ILE	852	4.337	47.093	17.715	1.00	114.11	C
ATOM	6424	C	ILE	852	8.602	46.173	17.645	1.00	114.11	C
ATOM	6425	O	ILE	852	8.463	45.058	17.144	1.00	114.11	O
ATOM	6426	N	TYR	853	9.341	47.137	17.066	1.00	77.17	N
ATOM	6427	CA	TYR	853	9.998	46.968	15.802	1.00	77.17	C
ATOM	6428	CB	TYR	853	10.590	48.275	15.250	1.00	77.17	C
ATOM	6429	CG	TYR	853	9.438	49.063	14.725	1.00	77.17	C
ATOM	6430	CD1	TYR	853	9.033	48.894	13.422	1.00	77.17	C
ATOM	6431	CD2	TYR	853	8.757	49.952	15.524	1.00	77.17	C
ATOM	6432	CE1	TYR	853	7.970	49.606	12.917	1.00	77.17	C
ATOM	6433	CE2	TYR	853	7.692	50.667	15.024	1.00	77.17	C
ATOM	6434	CZ	TYR	853	7.299	50.497	13.718	1.00	77.17	C
ATOM	6435	OH	TYR	853	6.208	51.229	13.202	1.00	77.17	O
ATOM	6436	C	TYR	853	11.078	45.936	15.894	1.00	77.17	C
ATOM	6437	O	TYR	853	11.332	45.224	14.923	1.00	77.17	O
ATOM	6438	N	GLY	854	11.796	45.869	17.033	1.00	41.86	N
ATOM	6439	CA	GLY	854	12.801	44.854	17.184	1.00	41.86	C
ATOM	6440	C	GLY	854	13.094	44.717	18.645	1.00	41.86	C
ATOM	6441	O	GLY	854	13.846	45.501	19.220	1.00	41.86	O
ATOM	6442	N	TRP	855	12.523	43.675	19.273	1.00	70.35	N
ATOM	6443	CA	TRP	855	12.652	43.452	20.684	1.00	70.35	C
ATOM	6444	CB	TRP	855	11.704	42.344	21.189	1.00	70.35	C
ATOM	6445	CG	TRP	855	11.782	42.066	22.673	1.00	70.35	C
ATOM	6446	CD2	TRP	855	12.095	40.785	23.247	1.00	70.35	C
ATOM	6447	CD1	TRP	855	11.536	42.905	23.720	1.00	70.35	C
ATOM	6448	NE1	TRP	855	11.692	42.232	24.909	1.00	70.35	N
ATOM	6449	CE2	TRP	855	12.032	40.926	24.632	1.00	70.35	C
ATOM	6450	CE3	TRP	855	12.400	39.587	22.668	1.00	70.35	C
ATOM	6451	CZ2	TRP	855	12.277	39.867	25.461	1.00	70.35	C
ATOM	6452	CZ3	TRP	855	12.657	38.524	23.504	1.00	70.35	C
ATOM	6453	CH2	TRP	855	12.597	38.662	24.875	1.00	70.35	C
ATOM	6454	C	TRP	855	14.058	43.077	21.050	1.00	70.35	C
ATOM	6455	O	TRP	855	14.559	43.486	22.094	1.00	70.35	O
ATOM	6456	N	GLN	856	14.728	42.271	20.207	1.00	132.73	N
ATOM	6457	CA	GLN	856	16.014	41.711	20.537	1.00	132.73	C
ATOM	6458	CB	GLN	856	16.569	40.819	19.408	1.00	132.73	C
ATOM	6459	CG	GLN	856	15.562	39.923	18.677	1.00	132.73	C
ATOM	6460	CD	GLN	856	14.697	39.180	19.672	1.00	132.73	C
ATOM	6461	OE1	GLN	856	13.915	39.790	20.398	1.00	132.73	O
ATOM	6462	NE2	GLN	856	14.820	37.826	19.692	1.00	132.73	N
ATOM	6463	C	GLN	856	17.077	42.770	20.654	1.00	132.73	C
ATOM	6464	O	GLN	856	17.845	42.798	21.614	1.00	132.73	O
ATOM	6465	N	LEU	857	17.142	43.667	19.653	1.00	67.42	N
ATOM	6466	CA	LEU	857	18.203	44.630	19.510	1.00	67.42	C
ATOM	6467	CB	LEU	857	18.125	45.359	18.156	1.00	67.42	C
ATOM	6468	CG	LEU	857	19.241	46.393	17.929	1.00	67.42	C
ATOM	6469	CD1	LEU	857	20.626	45.726	17.941	1.00	67.42	C
ATOM	6470	CD2	LEU	857	18.990	47.202	16.646	1.00	67.42	C
ATOM	6471	C	LEU	857	18.201	45.658	20.604	1.00	67.42	C
ATOM	6472	O	LEU	857	19.262	46.104	21.037	1.00	67.42	O
ATOM	6473	N	THR	858	17.012	46.079	21.070	1.00	47.73	N
ATOM	6474	CA	THR	858	16.904	47.132	22.044	1.00	47.73	C
ATOM	6475	CB	THR	858	15.480	47.518	22.323	1.00	47.73	C
ATOM	6476	OG1	THR	858	14.768	46.420	22.872	1.00	47.73	O
ATOM	6477	CG2	THR	858	14.828	47.968	21.004	1.00	47.73	C
ATOM	6478	C	THR	858	17.537	46.725	23.334	1.00	47.73	C
ATOM	6479	O	THR	858	18.197	47.535	23.979	1.00	47.73	O
ATOM	6480	N	LEU	859	17.384	45.454	23.743	1.00	111.25	N

ATOM	6481	CA	LEU	859	17.928	45.044	25.006	1.00111.25	C
ATOM	6482	CB	LEU	859	17.678	43.562	25.330	1.00111.25	C
ATOM	6483	CG	LEU	859	16.235	43.283	25.790	1.00111.25	C
ATOM	6484	CD1	LEU	859	15.207	43.739	24.745	1.00111.25	C
ATOM	6485	CD2	LEU	859	16.056	41.813	26.200	1.00111.25	C
ATOM	6486	C	LEU	859	19.397	45.297	24.988	1.00111.25	C
ATOM	6487	O	LEU	859	19.974	45.624	26.023	1.00111.25	O
ATOM	6488	N	LEU	860	20.057	45.110	23.830	1.00128.21	N
ATOM	6489	CA	LEU	860	21.452	45.435	23.784	1.00128.21	C
ATOM	6490	CB	LEU	860	22.130	45.070	22.457	1.00128.21	C
ATOM	6491	CG	LEU	860	22.317	43.564	22.239	1.00128.21	C
ATOM	6492	CD1	LEU	860	20.970	42.832	22.159	1.00128.21	C
ATOM	6493	CD2	LEU	860	23.219	43.309	21.024	1.00128.21	C
ATOM	6494	C	LEU	860	21.661	46.915	23.946	1.00128.21	C
ATOM	6495	O	LEU	860	22.392	47.341	24.834	1.00128.21	O
ATOM	6496	N	LEU	861	20.993	47.749	23.125	1.00111.29	N
ATOM	6497	CA	LEU	861	21.272	49.166	23.141	1.00111.29	C
ATOM	6498	CB	LEU	861	20.594	49.939	22.001	1.00111.29	C
ATOM	6499	CG	LEU	861	21.191	49.599	20.625	1.00111.29	C
ATOM	6500	CD1	LEU	861	20.908	48.147	20.231	1.00111.29	C
ATOM	6501	CD2	LEU	861	20.741	50.598	19.557	1.00111.29	C
ATOM	6502	C	LEU	861	20.873	49.802	24.436	1.00111.29	C
ATOM	6503	O	LEU	861	21.606	50.622	24.988	1.00111.29	O
ATOM	6504	N	LEU	862	19.694	49.431	24.956	1.00174.46	N
ATOM	6505	CA	LEU	862	19.188	49.937	26.196	1.00174.46	C
ATOM	6506	CB	LEU	862	17.806	49.369	26.563	1.00174.46	C
ATOM	6507	CG	LEU	862	16.637	49.994	25.783	1.00174.46	C
ATOM	6508	CD1	LEU	862	16.424	51.447	26.224	1.00174.46	C
ATOM	6509	CD2	LEU	862	16.807	49.873	24.262	1.00174.46	C
ATOM	6510	C	LEU	862	20.129	49.522	27.272	1.00174.46	C
ATOM	6511	O	LEU	862	20.160	50.142	28.329	1.00174.46	O
ATOM	6512	N	ALA	863	20.807	48.374	27.102	1.00 53.01	N
ATOM	6513	CA	ALA	863	21.806	47.968	28.050	1.00 53.01	C
ATOM	6514	CB	ALA	863	22.293	46.528	27.817	1.00 53.01	C
ATOM	6515	C	ALA	863	23.011	48.866	27.961	1.00 53.01	C
ATOM	6516	O	ALA	863	23.548	49.280	28.986	1.00 53.01	O
ATOM	6517	N	ILE	864	23.479	49.159	26.724	1.00120.71	N
ATOM	6518	CA	ILE	864	24.651	49.956	26.449	1.00120.71	C
ATOM	6519	CB	ILE	864	25.161	49.860	25.028	1.00120.71	C
ATOM	6520	CG1	ILE	864	25.934	48.547	24.771	1.00120.71	C
ATOM	6521	CG2	ILE	864	26.020	51.105	24.758	1.00120.71	C
ATOM	6522	CD1	ILE	864	25.112	47.266	24.694	1.00120.71	C
ATOM	6523	C	ILE	864	24.479	51.411	26.771	1.00120.71	C
ATOM	6524	O	ILE	864	25.412	52.042	27.263	1.00120.71	O
ATOM	6525	N	VAL	865	23.303	52.010	26.501	1.00138.16	N
ATOM	6526	CA	VAL	865	23.202	53.426	26.710	1.00138.16	C
ATOM	6527	CB	VAL	865	21.939	54.077	26.180	1.00138.16	C
ATOM	6528	CG1	VAL	865	20.658	53.431	26.728	1.00138.16	C
ATOM	6529	CG2	VAL	865	22.050	55.580	26.474	1.00138.16	C
ATOM	6530	C	VAL	865	23.489	53.777	28.143	1.00138.16	C
ATOM	6531	O	VAL	865	24.075	54.830	28.383	1.00138.16	O
ATOM	6532	N	PRO	866	23.137	52.994	29.126	1.00104.55	N
ATOM	6533	CA	PRO	866	23.497	53.339	30.466	1.00104.55	C
ATOM	6534	CD	PRO	866	21.981	52.128	29.092	1.00104.55	C
ATOM	6535	CB	PRO	866	22.755	52.363	31.374	1.00104.55	C
ATOM	6536	CG	PRO	866	21.514	51.987	30.548	1.00104.55	C
ATOM	6537	C	PRO	866	24.981	53.318	30.649	1.00104.55	C
ATOM	6538	O	PRO	866	25.478	54.111	31.445	1.00104.55	O
ATOM	6539	N	ILE	867	25.714	52.417	29.958	1.00110.02	N
ATOM	6540	CA	ILE	867	27.131	52.376	30.186	1.00110.02	C
ATOM	6541	CB	ILE	867	27.858	51.184	29.611	1.00110.02	C
ATOM	6542	CG1	ILE	867	27.868	51.182	28.078	1.00110.02	C
ATOM	6543	CG2	ILE	867	27.237	49.919	30.224	1.00110.02	C
ATOM	6544	CD1	ILE	867	28.838	50.166	27.477	1.00110.02	C
ATOM	6545	C	ILE	867	27.769	53.609	29.626	1.00110.02	C
ATOM	6546	O	ILE	867	28.624	54.218	30.264	1.00110.02	O
ATOM	6547	N	ILE	868	27.368	54.004	28.403	1.00102.86	N
ATOM	6548	CA	ILE	868	27.942	55.134	27.727	1.00102.86	C
ATOM	6549	CB	ILE	868	27.454	55.265	26.315	1.00102.86	C
ATOM	6550	CG1	ILE	868	27.796	53.990	25.526	1.00102.86	C
ATOM	6551	CG2	ILE	868	28.074	56.538	25.713	1.00102.86	C
ATOM	6552	CD1	ILE	868	29.291	53.678	25.491	1.00102.86	C
ATOM	6553	C	ILE	868	27.603	56.399	28.454	1.00102.86	C
ATOM	6554	O	ILE	868	28.436	57.296	28.560	1.00102.86	O

ATOM	6555	N	ALA	869	26.357	56.517	28.948	1.00	38.39	N
ATOM	6556	CA	ALA	869	25.910	57.701	29.632	1.00	38.39	C
ATOM	6557	CB	ALA	869	24.438	57.614	30.068	1.00	38.39	C
ATOM	6558	C	ALA	869	26.735	57.881	30.866	1.00	38.39	C
ATOM	6559	O	ALA	869	27.106	59.000	31.212	1.00	38.39	O
ATOM	6560	N	ILE	870	27.042	56.772	31.564	1.00	31.87	N
ATOM	6561	CA	ILE	870	27.793	56.824	32.787	1.00	31.87	C
ATOM	6562	CB	ILE	870	27.976	55.474	33.420	1.00	31.87	C
ATOM	6563	CG1	ILE	870	26.618	54.875	33.821	1.00	31.87	C
ATOM	6564	CG2	ILE	870	28.951	55.629	34.598	1.00	31.87	C
ATOM	6565	CD1	ILE	870	26.693	53.392	34.183	1.00	31.87	C
ATOM	6566	C	ILE	870	29.159	57.362	32.494	1.00	31.87	C
ATOM	6567	O	ILE	870	29.683	58.190	33.236	1.00	31.87	O
ATOM	6568	N	ALA	871	29.776	56.915	31.387	1.00	31.45	N
ATOM	6569	CA	ALA	871	31.116	57.324	31.082	1.00	31.45	C
ATOM	6570	CB	ALA	871	31.645	56.698	29.780	1.00	31.45	C
ATOM	6571	C	ALA	871	31.156	58.811	30.917	1.00	31.45	C
ATOM	6572	O	ALA	871	32.109	59.458	31.346	1.00	31.45	O
ATOM	6573	N	GLY	872	30.127	59.391	30.275	1.00	38.01	N
ATOM	6574	CA	GLY	872	30.082	60.809	30.045	1.00	38.01	C
ATOM	6575	C	GLY	872	30.012	61.549	31.345	1.00	38.01	C
ATOM	6576	O	GLY	872	30.604	62.618	31.475	1.00	38.01	O
ATOM	6577	N	VAL	873	29.234	61.040	32.323	1.00	104.63	N
ATOM	6578	CA	VAL	873	29.107	61.724	33.583	1.00	104.63	C
ATOM	6579	CB	VAL	873	28.009	61.192	34.465	1.00	104.63	C
ATOM	6580	CG1	VAL	873	28.405	59.819	35.026	1.00	104.63	C
ATOM	6581	CG2	VAL	873	27.724	62.243	35.550	1.00	104.63	C
ATOM	6582	C	VAL	873	30.399	61.640	34.333	1.00	104.63	C
ATOM	6583	O	VAL	873	30.827	62.615	34.947	1.00	104.63	O
ATOM	6584	N	VAL	874	31.065	60.470	34.285	1.00	44.02	N
ATOM	6585	CA	VAL	874	32.274	60.261	35.027	1.00	44.02	C
ATOM	6586	CB	VAL	874	32.851	58.889	34.841	1.00	44.02	C
ATOM	6587	CG1	VAL	874	34.171	58.811	35.629	1.00	44.02	C
ATOM	6588	CG2	VAL	874	31.803	57.851	35.274	1.00	44.02	C
ATOM	6589	C	VAL	874	33.300	61.238	34.560	1.00	44.02	C
ATOM	6590	O	VAL	874	34.052	61.775	35.367	1.00	44.02	O
ATOM	6591	N	GLU	875	33.387	61.483	33.239	1.00	91.91	N
ATOM	6592	CA	GLU	875	34.356	62.431	32.777	1.00	91.91	C
ATOM	6593	CB	GLU	875	34.573	62.432	31.248	1.00	91.91	C
ATOM	6594	CG	GLU	875	33.344	62.698	30.382	1.00	91.91	C
ATOM	6595	CD	GLU	875	33.807	62.642	28.930	1.00	91.91	C
ATOM	6596	OE1	GLU	875	35.045	62.571	28.706	1.00	91.91	O
ATOM	6597	OE2	GLU	875	32.928	62.666	28.026	1.00	91.91	O
ATOM	6598	C	GLU	875	33.977	63.798	33.271	1.00	91.91	C
ATOM	6599	O	GLU	875	34.852	64.596	33.599	1.00	91.91	O
ATOM	6600	N	MET	876	32.665	64.112	33.343	1.00	78.66	N
ATOM	6601	CA	MET	876	32.241	65.397	33.839	1.00	78.66	C
ATOM	6602	CB	MET	876	30.715	65.588	33.798	1.00	78.66	C
ATOM	6603	CG	MET	876	30.133	65.593	32.381	1.00	78.66	C
ATOM	6604	SD	MET	876	30.682	66.970	31.326	1.00	78.66	S
ATOM	6605	CE	MET	876	32.357	66.327	31.043	1.00	78.66	C
ATOM	6606	C	MET	876	32.676	65.486	35.266	1.00	78.66	C
ATOM	6607	O	MET	876	33.148	66.530	35.711	1.00	78.66	O
ATOM	6608	N	LYS	877	32.512	64.380	36.019	1.00	186.65	N
ATOM	6609	CA	LYS	877	32.881	64.322	37.405	1.00	186.65	C
ATOM	6610	CB	LYS	877	32.519	62.976	38.053	1.00	186.65	C
ATOM	6611	CG	LYS	877	31.046	62.832	38.419	1.00	186.65	C
ATOM	6612	CD	LYS	877	30.611	63.846	39.476	1.00	186.65	C
ATOM	6613	CE	LYS	877	31.595	63.947	40.643	1.00	186.65	C
ATOM	6614	NZ	LYS	877	32.721	64.837	40.282	1.00	186.65	N
ATOM	6615	C	LYS	877	34.367	64.449	37.559	1.00	186.65	C
ATOM	6616	O	LYS	877	34.837	65.231	38.374	1.00	186.65	O
ATOM	6617	N	MET	878	35.147	63.677	36.784	1.00	118.15	N
ATOM	6618	CA	MET	878	36.584	63.620	36.861	1.00	118.15	C
ATOM	6619	CB	MET	878	37.172	62.552	35.921	1.00	118.15	C
ATOM	6620	CG	MET	878	36.781	61.116	36.275	1.00	118.15	C
ATOM	6621	SD	MET	878	37.656	60.416	37.705	1.00	118.15	S
ATOM	6622	CE	MET	878	39.173	60.047	36.777	1.00	118.15	C
ATOM	6623	C	MET	878	37.177	64.920	36.432	1.00	118.15	C
ATOM	6624	O	MET	878	38.234	65.311	36.921	1.00	118.15	O
ATOM	6625	N	LEU	879	36.563	65.577	35.430	1.00	104.09	N
ATOM	6626	CA	LEU	879	37.084	66.828	34.966	1.00	104.09	C
ATOM	6627	CB	LEU	879	36.376	67.321	33.684	1.00	104.09	C
ATOM	6628	CG	LEU	879	37.036	68.514	32.943	1.00	104.09	C

ATOM	6629	CD1	LEU	879	36.221	68.885	31.693	1.00104.09	C
ATOM	6630	CD2	LEU	879	37.287	69.737	33.840	1.00104.09	C
ATOM	6631	C	LEU	879	36.888	67.847	36.049	1.00104.09	C
ATOM	6632	O	LEU	879	37.790	68.631	36.329	1.00104.09	O
ATOM	6633	N	SER	880	35.685	67.876	36.659	1.00 43.88	N
ATOM	6634	CA	SER	880	35.350	68.837	37.677	1.00 43.88	C
ATOM	6635	CB	SER	880	33.847	68.851	38.004	1.00 43.88	C
ATOM	6636	OG	SER	880	33.575	69.817	39.010	1.00 43.88	O
ATOM	6637	C	SER	880	36.076	68.549	38.953	1.00 43.88	C
ATOM	6638	O	SER	880	36.693	69.435	39.537	1.00 43.88	O
ATOM	6639	N	GLY	881	36.026	67.283	39.401	1.00 34.75	N
ATOM	6640	CA	GLY	881	36.580	66.825	40.641	1.00 34.75	C
ATOM	6641	C	GLY	881	38.049	67.059	40.614	1.00 34.75	C
ATOM	6642	O	GLY	881	38.643	67.399	41.634	1.00 34.75	O
ATOM	6643	N	GLN	882	38.675	66.822	39.449	1.00 79.13	N
ATOM	6644	CA	GLN	882	40.074	67.062	39.263	1.00 79.13	C
ATOM	6645	CB	GLN	882	40.601	66.563	37.912	1.00 79.13	C
ATOM	6646	CG	GLN	882	42.093	66.841	37.759	1.00 79.13	C
ATOM	6647	CD	GLN	882	42.763	66.135	38.924	1.00 79.13	C
ATOM	6648	OE1	GLN	882	43.473	66.746	39.721	1.00 79.13	O
ATOM	6649	NE2	GLN	882	42.521	64.803	39.034	1.00 79.13	N
ATOM	6650	C	GLN	882	40.293	68.536	39.300	1.00 79.13	C
ATOM	6651	O	GLN	882	41.324	69.004	39.779	1.00 79.13	O
ATOM	6652	N	ALA	883	39.321	69.308	38.774	1.00 43.07	N
ATOM	6653	CA	ALA	883	39.450	70.732	38.722	1.00 43.07	C
ATOM	6654	CB	ALA	883	38.232	71.436	38.098	1.00 43.07	C
ATOM	6655	C	ALA	883	39.584	71.227	40.125	1.00 43.07	C
ATOM	6656	O	ALA	883	40.372	72.132	40.388	1.00 43.07	O
ATOM	6657	N	LEU	884	38.801	70.658	41.063	1.00 94.33	N
ATOM	6658	CA	LEU	884	38.882	71.052	42.439	1.00 94.33	C
ATOM	6659	CB	LEU	884	37.804	70.416	43.339	1.00 94.33	C
ATOM	6660	CG	LEU	884	36.388	71.003	43.171	1.00 94.33	C
ATOM	6661	CD1	LEU	884	36.339	72.469	43.630	1.00 94.33	C
ATOM	6662	CD2	LEU	884	35.844	70.807	41.750	1.00 94.33	C
ATOM	6663	C	LEU	884	40.215	70.672	43.022	1.00 94.33	C
ATOM	6664	O	LEU	884	40.814	71.456	43.753	1.00 94.33	O
ATOM	6665	N	LYS	885	40.720	69.459	42.716	1.00 73.52	N
ATOM	6666	CA	LYS	885	41.923	68.955	43.329	1.00 73.52	C
ATOM	6667	CB	LYS	885	42.281	67.548	42.825	1.00 73.52	C
ATOM	6668	CG	LYS	885	41.164	66.517	42.984	1.00 73.52	C
ATOM	6669	CD	LYS	885	41.400	65.265	42.138	1.00 73.52	C
ATOM	6670	CE	LYS	885	40.168	64.374	41.985	1.00 73.52	C
ATOM	6671	NZ	LYS	885	40.441	63.304	41.000	1.00 73.52	N
ATOM	6672	C	LYS	885	43.110	69.812	42.995	1.00 73.52	C
ATOM	6673	O	LYS	885	43.822	70.271	43.886	1.00 73.52	O
ATOM	6674	N	ASP	886	43.358	70.042	41.690	1.00 68.33	N
ATOM	6675	CA	ASP	886	44.503	70.789	41.250	1.00 68.33	C
ATOM	6676	CB	ASP	886	44.689	70.739	39.725	1.00 68.33	C
ATOM	6677	CG	ASP	886	45.100	69.322	39.347	1.00 68.33	C
ATOM	6678	OD1	ASP	886	45.569	68.577	40.249	1.00 68.33	O
ATOM	6679	OD2	ASP	886	44.952	68.966	38.147	1.00 68.33	O
ATOM	6680	C	ASP	886	44.351	72.218	41.645	1.00 68.33	C
ATOM	6681	O	ASP	886	45.305	72.856	42.085	1.00 68.33	O
ATOM	6682	N	LYS	887	43.129	72.748	41.490	1.00175.13	N
ATOM	6683	CA	LYS	887	42.826	74.117	41.768	1.00175.13	C
ATOM	6684	CB	LYS	887	41.366	74.467	41.435	1.00175.13	C
ATOM	6685	CG	LYS	887	41.104	75.966	41.300	1.00175.13	C
ATOM	6686	CD	LYS	887	41.591	76.547	39.972	1.00175.13	C
ATOM	6687	CE	LYS	887	40.492	76.619	38.907	1.00175.13	C
ATOM	6688	NZ	LYS	887	39.910	75.277	38.684	1.00175.13	N
ATOM	6689	C	LYS	887	43.003	74.360	43.233	1.00175.13	C
ATOM	6690	O	LYS	887	43.432	75.439	43.628	1.00175.13	O
ATOM	6691	N	LYS	888	42.619	73.384	44.083	1.00129.91	N
ATOM	6692	CA	LYS	888	42.699	73.538	45.510	1.00129.91	C
ATOM	6693	CB	LYS	888	41.938	72.456	46.294	1.00129.91	C
ATOM	6694	CG	LYS	888	41.428	72.952	47.653	1.00129.91	C
ATOM	6695	CD	LYS	888	42.501	73.530	48.577	1.00129.91	C
ATOM	6696	CE	LYS	888	41.929	74.255	49.797	1.00129.91	C
ATOM	6697	NZ	LYS	888	43.025	74.851	50.593	1.00129.91	N
ATOM	6698	C	LYS	888	44.134	73.520	45.961	1.00129.91	C
ATOM	6699	O	LYS	888	44.511	74.258	46.865	1.00129.91	O
ATOM	6700	N	GLU	889	44.972	72.661	45.348	1.00 76.30	N
ATOM	6701	CA	GLU	889	46.354	72.511	45.717	1.00 76.30	C
ATOM	6702	CB	GLU	889	47.031	71.333	45.000	1.00 76.30	C

ATOM	6703	CG	GLU	889	46.421	69.991	45.410	1.00	76.30	C
ATOM	6704	CD	GLU	889	47.146	68.887	44.662	1.00	76.30	C
ATOM	6705	OE1	GLU	889	48.374	68.734	44.896	1.00	76.30	O
ATOM	6706	OE2	GLU	889	46.488	68.182	43.853	1.00	76.30	O
ATOM	6707	C	GLU	889	47.097	73.773	45.395	1.00	76.30	C
ATOM	6708	O	GLU	889	48.116	74.069	46.018	1.00	76.30	O
ATOM	6709	N	LEU	890	46.634	74.502	44.359	1.00	97.36	N
ATOM	6710	CA	LEU	890	47.199	75.734	43.882	1.00	97.36	C
ATOM	6711	CB	LEU	890	46.669	76.165	42.505	1.00	97.36	C
ATOM	6712	CG	LEU	890	47.435	77.374	41.935	1.00	97.36	C
ATOM	6713	CD1	LEU	890	48.918	77.026	41.720	1.00	97.36	C
ATOM	6714	CD2	LEU	890	46.767	77.922	40.664	1.00	97.36	C
ATOM	6715	C	LEU	890	46.942	76.847	44.851	1.00	97.36	C
ATOM	6716	O	LEU	890	47.670	77.835	44.863	1.00	97.36	O
ATOM	6717	N	GLU	891	45.873	76.732	45.659	1.00	155.96	N
ATOM	6718	CA	GLU	891	45.452	77.733	46.599	1.00	155.96	C
ATOM	6719	CB	GLU	891	44.263	77.263	47.452	1.00	155.96	C
ATOM	6720	CG	GLU	891	43.891	78.238	48.568	1.00	155.96	C
ATOM	6721	CD	GLU	891	43.031	79.336	47.966	1.00	155.96	C
ATOM	6722	OE1	GLU	891	42.296	79.035	46.988	1.00	155.96	O
ATOM	6723	OE2	GLU	891	43.091	80.486	48.480	1.00	155.96	O
ATOM	6724	C	GLU	891	46.562	78.010	47.559	1.00	155.96	C
ATOM	6725	O	GLU	891	46.712	79.138	48.010	1.00	155.96	O
ATOM	6726	N	GLY	892	47.346	76.995	47.951	1.00	47.92	N
ATOM	6727	CA	GLY	892	48.417	77.263	48.861	1.00	47.92	C
ATOM	6728	C	GLY	892	49.390	78.197	48.207	1.00	47.92	C
ATOM	6729	O	GLY	892	49.871	79.141	48.831	1.00	47.92	O
ATOM	6730	N	ALA	893	49.730	77.929	46.931	1.00	51.99	N
ATOM	6731	CA	ALA	893	50.645	78.747	46.189	1.00	51.99	C
ATOM	6732	CB	ALA	893	51.001	78.152	44.817	1.00	51.99	C
ATOM	6733	C	ALA	893	50.038	80.097	45.952	1.00	51.99	C
ATOM	6734	O	ALA	893	50.715	81.117	46.057	1.00	51.99	O
ATOM	6735	N	GLY	894	48.737	80.125	45.606	1.00	58.16	N
ATOM	6736	CA	GLY	894	48.008	81.326	45.306	1.00	58.16	C
ATOM	6737	C	GLY	894	47.898	82.150	46.532	1.00	58.16	C
ATOM	6738	O	GLY	894	47.892	83.373	46.482	1.00	58.16	O
ATOM	6739	N	LYS	895	47.759	81.479	47.673	1.00	183.46	N
ATOM	6740	CA	LYS	895	47.589	82.122	48.926	1.00	183.46	C
ATOM	6741	CB	LYS	895	47.498	81.102	50.074	1.00	183.46	C
ATOM	6742	CG	LYS	895	47.130	81.686	51.438	1.00	183.46	C
ATOM	6743	CD	LYS	895	45.667	82.116	51.547	1.00	183.46	C
ATOM	6744	CE	LYS	895	45.240	82.471	52.971	1.00	183.46	C
ATOM	6745	NZ	LYS	895	45.129	81.236	53.777	1.00	183.46	N
ATOM	6746	C	LYS	895	48.813	82.936	49.150	1.00	183.46	C
ATOM	6747	O	LYS	895	48.724	84.098	49.534	1.00	183.46	O
ATOM	6748	N	ILE	896	49.995	82.354	48.875	1.00	164.96	N
ATOM	6749	CA	ILE	896	51.196	83.074	49.146	1.00	164.96	C
ATOM	6750	CB	ILE	896	52.465	82.272	48.971	1.00	164.96	C
ATOM	6751	CG1	ILE	896	53.596	82.915	49.783	1.00	164.96	C
ATOM	6752	CG2	ILE	896	52.816	82.150	47.485	1.00	164.96	C
ATOM	6753	CD1	ILE	896	53.425	82.737	51.289	1.00	164.96	C
ATOM	6754	C	ILE	896	51.219	84.289	48.272	1.00	164.96	C
ATOM	6755	O	ILE	896	51.510	85.386	48.739	1.00	164.96	O
ATOM	6756	N	ALA	897	50.884	84.139	46.977	1.00	69.72	N
ATOM	6757	CA	ALA	897	50.918	85.266	46.092	1.00	69.72	C
ATOM	6758	CB	ALA	897	50.630	84.888	44.628	1.00	69.72	C
ATOM	6759	C	ALA	897	49.900	86.288	46.501	1.00	69.72	C
ATOM	6760	O	ALA	897	50.218	87.468	46.626	1.00	69.72	O
ATOM	6761	N	THR	898	48.662	85.845	46.787	1.00	140.08	N
ATOM	6762	CA	THR	898	47.575	86.735	47.082	1.00	140.08	C
ATOM	6763	CB	THR	898	46.268	86.035	47.315	1.00	140.08	C
ATOM	6764	OG1	THR	898	45.215	86.985	47.332	1.00	140.08	O
ATOM	6765	CG2	THR	898	46.317	85.289	48.657	1.00	140.08	C
ATOM	6766	C	THR	898	47.932	87.491	48.305	1.00	140.08	C
ATOM	6767	O	THR	898	47.590	88.663	48.447	1.00	140.08	O
ATOM	6768	N	GLU	899	48.623	86.819	49.234	1.00	82.12	N
ATOM	6769	CA	GLU	899	49.023	87.459	50.439	1.00	82.12	C
ATOM	6770	CB	GLU	899	49.739	86.481	51.388	1.00	82.12	C
ATOM	6771	CG	GLU	899	49.913	86.991	52.819	1.00	82.12	C
ATOM	6772	CD	GLU	899	50.449	85.832	53.651	1.00	82.12	C
ATOM	6773	OE1	GLU	899	51.027	84.889	53.047	1.00	82.12	O
ATOM	6774	OE2	GLU	899	50.286	85.872	54.899	1.00	82.12	O
ATOM	6775	C	GLU	899	49.975	88.558	50.066	1.00	82.12	C
ATOM	6776	O	GLU	899	49.902	89.646	50.626	1.00	82.12	O

ATOM	6777	N	ALA	900	50.913	88.287	49.132	1.00	82.03	N
ATOM	6778	CA	ALA	900	51.906	89.239	48.704	1.00	82.03	C
ATOM	6779	CB	ALA	900	53.020	88.589	47.864	1.00	82.03	C
ATOM	6780	C	ALA	900	51.355	90.389	47.895	1.00	82.03	C
ATOM	6781	O	ALA	900	51.720	91.537	48.130	1.00	82.03	O
ATOM	6782	N	ILE	901	50.497	90.129	46.888	1.00	133.18	N
ATOM	6783	CA	ILE	901	50.001	91.198	46.050	1.00	133.18	C
ATOM	6784	CB	ILE	901	49.350	90.716	44.784	1.00	133.18	C
ATOM	6785	CG1	ILE	901	50.404	90.086	43.855	1.00	133.18	C
ATOM	6786	CG2	ILE	901	48.643	91.916	44.129	1.00	133.18	C
ATOM	6787	CD1	ILE	901	51.092	88.846	44.418	1.00	133.18	C
ATOM	6788	C	ILE	901	49.040	92.085	46.785	1.00	133.18	C
ATOM	6789	O	ILE	901	49.116	93.310	46.692	1.00	133.18	O
ATOM	6790	N	GLU	902	48.122	91.479	47.560	1.00	87.83	N
ATOM	6791	CA	GLU	902	47.095	92.201	48.251	1.00	87.83	C
ATOM	6792	CB	GLU	902	46.229	91.287	49.134	1.00	87.83	C
ATOM	6793	CG	GLU	902	45.377	90.288	48.351	1.00	87.83	C
ATOM	6794	CD	GLU	902	44.678	89.391	49.363	1.00	87.83	C
ATOM	6795	OE1	GLU	902	45.112	89.388	50.546	1.00	87.83	O
ATOM	6796	OE2	GLU	902	43.704	88.696	48.969	1.00	87.83	O
ATOM	6797	C	GLU	902	47.772	93.161	49.157	1.00	87.83	C
ATOM	6798	O	GLU	902	47.291	94.274	49.369	1.00	87.83	O
ATOM	6799	N	ASN	903	48.901	92.732	49.744	1.00	163.75	N
ATOM	6800	CA	ASN	903	49.590	93.609	50.635	1.00	163.75	C
ATOM	6801	CB	ASN	903	49.801	92.977	52.020	1.00	163.75	C
ATOM	6802	CG	ASN	903	48.430	92.710	52.620	1.00	163.75	C
ATOM	6803	OD1	ASN	903	47.676	93.635	52.920	1.00	163.75	O
ATOM	6804	ND2	ASN	903	48.092	91.404	52.789	1.00	163.75	N
ATOM	6805	C	ASN	903	50.958	93.858	50.073	1.00	163.75	C
ATOM	6806	O	ASN	903	51.950	93.647	50.768	1.00	163.75	O
ATOM	6807	N	PHE	904	51.049	94.339	48.815	1.00	90.09	N
ATOM	6808	CA	PHE	904	52.320	94.559	48.177	1.00	90.09	C
ATOM	6809	CB	PHE	904	52.222	94.838	46.667	1.00	90.09	C
ATOM	6810	CG	PHE	904	53.620	94.965	46.159	1.00	90.09	C
ATOM	6811	CD1	PHE	904	54.397	93.844	45.966	1.00	90.09	C
ATOM	6812	CD2	PHE	904	54.152	96.199	45.866	1.00	90.09	C
ATOM	6813	CE1	PHE	904	55.686	93.951	45.498	1.00	90.09	C
ATOM	6814	CE2	PHE	904	55.441	96.313	45.397	1.00	90.09	C
ATOM	6815	CZ	PHE	904	56.210	95.189	45.213	1.00	90.09	C
ATOM	6816	C	PHE	904	52.992	95.721	48.818	1.00	90.09	C
ATOM	6817	O	PHE	904	54.203	95.724	49.030	1.00	90.09	O
ATOM	6818	N	ARG	905	52.204	96.753	49.148	1.00	102.36	N
ATOM	6819	CA	ARG	905	52.780	97.905	49.745	1.00	102.36	C
ATOM	6820	CB	ARG	905	51.775	99.034	50.048	1.00	102.36	C
ATOM	6821	CG	ARG	905	51.459	99.936	48.851	1.00	102.36	C
ATOM	6822	CD	ARG	905	50.494	101.074	49.198	1.00	102.36	C
ATOM	6823	NE	ARG	905	50.460	102.027	48.052	1.00	102.36	N
ATOM	6824	CZ	ARG	905	51.229	103.156	48.078	1.00	102.36	C
ATOM	6825	NH1	ARG	905	52.042	103.407	49.145	1.00	102.36	N
ATOM	6826	NH2	ARG	905	51.175	104.044	47.044	1.00	102.36	N
ATOM	6827	C	ARG	905	53.419	97.510	51.044	1.00	102.36	C
ATOM	6828	O	ARG	905	54.411	98.113	51.447	1.00	102.36	O
ATOM	6829	N	THR	906	52.834	96.528	51.762	1.00	90.92	N
ATOM	6830	CA	THR	906	53.341	96.083	53.035	1.00	90.92	C
ATOM	6831	CB	THR	906	52.440	95.079	53.696	1.00	90.92	C
ATOM	6832	OG1	THR	906	51.156	95.643	53.921	1.00	90.92	O
ATOM	6833	CG2	THR	906	53.071	94.640	55.028	1.00	90.92	C
ATOM	6834	C	THR	906	54.698	95.438	52.927	1.00	90.92	C
ATOM	6835	O	THR	906	55.658	95.872	53.562	1.00	90.92	O
ATOM	6836	N	VAL	907	54.820	94.417	52.061	1.00	126.55	N
ATOM	6837	CA	VAL	907	55.988	93.591	51.929	1.00	126.55	C
ATOM	6838	CB	VAL	907	55.806	92.526	50.885	1.00	126.55	C
ATOM	6839	CG1	VAL	907	55.563	93.204	49.527	1.00	126.55	C
ATOM	6840	CG2	VAL	907	57.039	91.611	50.886	1.00	126.55	C
ATOM	6841	C	VAL	907	57.152	94.429	51.518	1.00	126.55	C
ATOM	6842	O	VAL	907	58.276	94.179	51.948	1.00	126.55	O
ATOM	6843	N	VAL	908	56.922	95.420	50.640	1.00	121.08	N
ATOM	6844	CA	VAL	908	57.980	96.284	50.211	1.00	121.08	C
ATOM	6845	CB	VAL	908	57.575	97.261	49.143	1.00	121.08	C
ATOM	6846	CG1	VAL	908	56.543	98.243	49.722	1.00	121.08	C
ATOM	6847	CG2	VAL	908	58.846	97.948	48.612	1.00	121.08	C
ATOM	6848	C	VAL	908	58.444	97.070	51.397	1.00	121.08	C
ATOM	6849	O	VAL	908	59.629	97.369	51.528	1.00	121.08	O
ATOM	6850	N	SER	909	57.506	97.451	52.283	1.00	109.67	N

ATOM	6851	CA	SER	909	57.846	98.224	53.448	1.00109.67	C
ATOM	6852	CB	SER	909	56.613	98.639	54.259	1.00109.67	C
ATOM	6853	OG	SER	909	57.022	99.402	55.381	1.00109.67	O
ATOM	6854	C	SER	909	58.726	97.401	54.347	1.00109.67	C
ATOM	6855	O	SER	909	59.677	97.906	54.938	1.00109.67	O
ATOM	6856	N	LEU	910	58.376	96.115	54.514	1.00118.08	N
ATOM	6857	CA	LEU	910	59.083	95.143	55.299	1.00118.08	C
ATOM	6858	CB	LEU	910	58.148	93.995	55.719	1.00118.08	C
ATOM	6859	CG	LEU	910	57.016	94.549	56.620	1.00118.08	C
ATOM	6860	CD1	LEU	910	56.031	93.473	57.088	1.00118.08	C
ATOM	6861	CD2	LEU	910	57.591	95.338	57.808	1.00118.08	C
ATOM	6862	C	LEU	910	60.334	94.653	54.587	1.00118.08	C
ATOM	6863	O	LEU	910	61.198	94.046	55.214	1.00118.08	O
ATOM	6864	N	THR	911	60.438	94.847	53.251	1.00118.97	N
ATOM	6865	CA	THR	911	61.533	94.433	52.391	1.00118.97	C
ATOM	6866	CB	THR	911	62.888	94.996	52.755	1.00118.97	C
ATOM	6867	OG1	THR	911	63.397	94.419	53.947	1.00118.97	O
ATOM	6868	CG2	THR	911	62.741	96.516	52.934	1.00118.97	C
ATOM	6869	C	THR	911	61.643	92.926	52.327	1.00118.97	C
ATOM	6870	O	THR	911	62.715	92.360	52.120	1.00118.97	O
ATOM	6871	N	GLN	912	60.485	92.268	52.485	1.00157.80	N
ATOM	6872	CA	GLN	912	60.122	90.870	52.502	1.00157.80	C
ATOM	6873	CB	GLN	912	58.729	90.650	53.096	1.00157.80	C
ATOM	6874	CG	GLN	912	58.504	91.245	54.479	1.00157.80	C
ATOM	6875	CD	GLN	912	56.996	91.254	54.657	1.00157.80	C
ATOM	6876	OE1	GLN	912	56.251	91.527	53.718	1.00157.80	O
ATOM	6877	NE2	GLN	912	56.522	90.935	55.887	1.00157.80	N
ATOM	6878	C	GLN	912	60.030	90.221	51.138	1.00157.80	C
ATOM	6879	O	GLN	912	59.642	89.058	51.062	1.00157.80	O
ATOM	6880	N	GLU	913	60.207	90.941	50.016	1.00195.46	N
ATOM	6881	CA	GLU	913	59.896	90.353	48.727	1.00195.46	C
ATOM	6882	CB	GLU	913	60.171	91.315	47.553	1.00195.46	C
ATOM	6883	CG	GLU	913	61.544	91.983	47.578	1.00195.46	C
ATOM	6884	CD	GLU	913	61.465	93.199	48.494	1.00195.46	C
ATOM	6885	OE1	GLU	913	60.674	94.130	48.184	1.00195.46	O
ATOM	6886	OE2	GLU	913	62.200	93.211	49.518	1.00195.46	O
ATOM	6887	C	GLU	913	60.581	89.036	48.470	1.00195.46	C
ATOM	6888	O	GLU	913	59.980	88.119	47.904	1.00195.46	O
ATOM	6889	N	GLN	914	61.849	88.888	48.876	1.00128.30	N
ATOM	6890	CA	GLN	914	62.569	87.678	48.597	1.00128.30	C
ATOM	6891	CB	GLN	914	64.028	87.771	49.086	1.00128.30	C
ATOM	6892	CG	GLN	914	65.024	86.881	48.336	1.00128.30	C
ATOM	6893	CD	GLN	914	64.499	85.460	48.256	1.00128.30	C
ATOM	6894	OE1	GLN	914	64.224	84.819	49.269	1.00128.30	O
ATOM	6895	NE2	GLN	914	64.360	84.952	47.003	1.00128.30	N
ATOM	6896	C	GLN	914	61.914	86.528	49.317	1.00128.30	C
ATOM	6897	O	GLN	914	61.803	85.421	48.784	1.00128.30	O
ATOM	6898	N	LYS	915	61.435	86.775	50.553	1.00174.45	N
ATOM	6899	CA	LYS	915	60.911	85.721	51.378	1.00174.45	C
ATOM	6900	CB	LYS	915	60.407	86.286	52.722	1.00174.45	C
ATOM	6901	CG	LYS	915	60.534	85.353	53.933	1.00174.45	C
ATOM	6902	CD	LYS	915	59.774	84.032	53.864	1.00174.45	C
ATOM	6903	CE	LYS	915	59.967	83.173	55.119	1.00174.45	C
ATOM	6904	NZ	LYS	915	59.386	83.851	56.300	1.00174.45	N
ATOM	6905	C	LYS	915	59.755	85.075	50.660	1.00174.45	C
ATOM	6906	O	LYS	915	59.683	83.852	50.530	1.00174.45	O
ATOM	6907	N	PHE	916	58.834	85.898	50.127	1.00 90.19	N
ATOM	6908	CA	PHE	916	57.671	85.382	49.456	1.00 90.19	C
ATOM	6909	CB	PHE	916	56.642	86.458	49.073	1.00 90.19	C
ATOM	6910	CG	PHE	916	55.956	86.871	50.328	1.00 90.19	C
ATOM	6911	CD1	PHE	916	54.964	86.081	50.860	1.00 90.19	C
ATOM	6912	CD2	PHE	916	56.293	88.044	50.964	1.00 90.19	C
ATOM	6913	CE1	PHE	916	54.322	86.449	52.018	1.00 90.19	C
ATOM	6914	CE2	PHE	916	55.652	88.417	52.122	1.00 90.19	C
ATOM	6915	CZ	PHE	916	54.665	87.620	52.650	1.00 90.19	C
ATOM	6916	C	PHE	916	58.032	84.634	48.206	1.00 90.19	C
ATOM	6917	O	PHE	916	57.367	83.658	47.857	1.00 90.19	O
ATOM	6918	N	GLU	917	59.058	85.081	47.456	1.00144.28	N
ATOM	6919	CA	GLU	917	59.341	84.360	46.247	1.00144.28	C
ATOM	6920	CB	GLU	917	60.340	85.052	45.293	1.00144.28	C
ATOM	6921	CG	GLU	917	61.687	85.469	45.874	1.00144.28	C
ATOM	6922	CD	GLU	917	62.487	86.081	44.727	1.00144.28	C
ATOM	6923	OE1	GLU	917	62.870	85.315	43.804	1.00144.28	O
ATOM	6924	OE2	GLU	917	62.720	87.319	44.754	1.00144.28	O

ATOM	6925	C	GLU	917	59.768	82.952	46.548	1.00144.28	C
ATOM	6926	O	GLU	917	59.354	82.018	45.860	1.00144.28	O
ATOM	6927	N	HIS	918	60.591	82.743	47.593	1.00121.31	N
ATOM	6928	CA	HIS	918	61.021	81.404	47.891	1.00121.31	C
ATOM	6929	ND1	HIS	918	63.827	79.656	48.339	1.00121.31	N
ATOM	6930	CG	HIS	918	62.737	80.002	49.106	1.00121.31	C
ATOM	6931	CB	HIS	918	62.055	81.336	49.028	1.00121.31	C
ATOM	6932	NE2	HIS	918	63.359	77.892	49.609	1.00121.31	N
ATOM	6933	CD2	HIS	918	62.464	78.914	49.876	1.00121.31	C
ATOM	6934	CE1	HIS	918	64.158	78.385	48.679	1.00121.31	C
ATOM	6935	C	HIS	918	59.828	80.603	48.304	1.00121.31	C
ATOM	6936	O	HIS	918	59.656	79.451	47.906	1.00121.31	O
ATOM	6937	N	MET	919	58.945	81.233	49.095	1.00138.59	N
ATOM	6938	CA	MET	919	57.779	80.583	49.614	1.00138.59	C
ATOM	6939	CB	MET	919	56.844	81.562	50.346	1.00138.59	C
ATOM	6940	CG	MET	919	57.391	82.210	51.618	1.00138.59	C
ATOM	6941	SD	MET	919	57.270	81.183	53.108	1.00138.59	S
ATOM	6942	CE	MET	919	57.213	82.604	54.232	1.00138.59	C
ATOM	6943	C	MET	919	56.963	80.115	48.446	1.00138.59	C
ATOM	6944	O	MET	919	56.399	79.022	48.456	1.00138.59	O
ATOM	6945	N	TYR	920	56.869	80.958	47.405	1.00 96.14	N
ATOM	6946	CA	TYR	920	56.046	80.682	46.261	1.00 96.14	C
ATOM	6947	CB	TYR	920	56.070	81.889	45.299	1.00 96.14	C
ATOM	6948	CG	TYR	920	55.028	81.778	44.239	1.00 96.14	C
ATOM	6949	CD1	TYR	920	53.705	81.998	44.547	1.00 96.14	C
ATOM	6950	CD2	TYR	920	55.369	81.499	42.935	1.00 96.14	C
ATOM	6951	CE1	TYR	920	52.733	81.916	43.578	1.00 96.14	C
ATOM	6952	CE2	TYR	920	54.401	81.416	41.961	1.00 96.14	C
ATOM	6953	CZ	TYR	920	53.081	81.623	42.282	1.00 96.14	C
ATOM	6954	OH	TYR	920	52.087	81.540	41.285	1.00 96.14	O
ATOM	6955	C	TYR	920	56.556	79.467	45.535	1.00 96.14	C
ATOM	6956	O	TYR	920	55.795	78.553	45.220	1.00 96.14	O
ATOM	6957	N	ALA	921	57.874	79.402	45.276	1.00 56.22	N
ATOM	6958	CA	ALA	921	58.413	78.308	44.511	1.00 56.22	C
ATOM	6959	CB	ALA	921	59.920	78.461	44.244	1.00 56.22	C
ATOM	6960	C	ALA	921	58.219	77.020	45.242	1.00 56.22	C
ATOM	6961	O	ALA	921	57.856	76.001	44.652	1.00 56.22	O
ATOM	6962	N	GLN	922	58.430	77.041	46.566	1.00 91.76	N
ATOM	6963	CA	GLN	922	58.370	75.820	47.311	1.00 91.76	C
ATOM	6964	CB	GLN	922	58.648	76.022	48.810	1.00 91.76	C
ATOM	6965	CG	GLN	922	60.041	76.590	49.095	1.00 91.76	C
ATOM	6966	CD	GLN	922	61.076	75.603	48.576	1.00 91.76	C
ATOM	6967	OE1	GLN	922	61.015	74.408	48.865	1.00 91.76	O
ATOM	6968	NE2	GLN	922	62.053	76.113	47.780	1.00 91.76	N
ATOM	6969	C	GLN						

ATOM	6999	C	VAL	926	52.667	69.604	43.515	1.00	61.98	C
ATOM	7000	O	VAL	926	52.520	68.511	42.967	1.00	61.98	O
ATOM	7001	N	PRO	927	52.050	70.663	43.048	1.00	83.19	N
ATOM	7002	CA	PRO	927	51.126	70.519	41.950	1.00	83.19	C
ATOM	7003	CD	PRO	927	51.705	71.793	43.897	1.00	83.19	C
ATOM	7004	CB	PRO	927	50.383	71.850	41.856	1.00	83.19	C
ATOM	7005	CG	PRO	927	50.416	72.383	43.300	1.00	83.19	C
ATOM	7006	C	PRO	927	51.795	70.108	40.685	1.00	83.19	C
ATOM	7007	O	PRO	927	51.138	69.535	39.816	1.00	83.19	O
ATOM	7008	N	TYR	928	53.092	70.418	40.547	1.00	68.87	N
ATOM	7009	CA	TYR	928	53.799	70.083	39.350	1.00	68.87	C
ATOM	7010	CB	TYR	928	55.241	70.622	39.412	1.00	68.87	C
ATOM	7011	CG	TYR	928	55.983	70.281	38.168	1.00	68.87	C
ATOM	7012	CD1	TYR	928	55.802	71.013	37.018	1.00	68.87	C
ATOM	7013	CD2	TYR	928	56.884	69.240	38.161	1.00	68.87	C
ATOM	7014	CE1	TYR	928	56.496	70.702	35.873	1.00	68.87	C
ATOM	7015	CE2	TYR	928	57.580	68.925	37.019	1.00	68.87	C
ATOM	7016	CZ	TYR	928	57.386	69.656	35.873	1.00	68.87	C
ATOM	7017	OH	TYR	928	58.102	69.332	34.700	1.00	68.87	O
ATOM	7018	C	TYR	928	53.846	68.592	39.232	1.00	68.87	C
ATOM	7019	O	TYR	928	53.457	68.013	38.217	1.00	68.87	O
ATOM	7020	N	ARG	929	54.260	67.922	40.319	1.00	49.73	N
ATOM	7021	CA	ARG	929	54.432	66.502	40.294	1.00	49.73	C
ATOM	7022	CB	ARG	929	54.998	65.950	41.614	1.00	49.73	C
ATOM	7023	CG	ARG	929	56.469	66.313	41.829	1.00	49.73	C
ATOM	7024	CD	ARG	929	57.054	65.777	43.137	1.00	49.73	C
ATOM	7025	NE	ARG	929	56.478	66.583	44.249	1.00	49.73	N
ATOM	7026	CZ	ARG	929	57.114	67.722	44.651	1.00	49.73	C
ATOM	7027	NH1	ARG	929	58.266	68.112	44.031	1.00	49.73	N
ATOM	7028	NH2	ARG	929	56.600	68.470	45.671	1.00	49.73	N
ATOM	7029	C	ARG	929	53.121	65.836	40.035	1.00	49.73	C
ATOM	7030	O	ARG	929	53.068	64.836	39.322	1.00	49.73	O
ATOM	7031	N	ASN	930	52.027	66.346	40.626	1.00	116.02	N
ATOM	7032	CA	ASN	930	50.764	65.695	40.427	1.00	116.02	C
ATOM	7033	CB	ASN	930	49.656	66.112	41.418	1.00	116.02	C
ATOM	7034	CG	ASN	930	49.316	67.588	41.299	1.00	116.02	C
ATOM	7035	OD1	ASN	930	49.017	68.101	40.223	1.00	116.02	O
ATOM	7036	ND2	ASN	930	49.339	68.292	42.459	1.00	116.02	N
ATOM	7037	C	ASN	930	50.263	65.850	39.017	1.00	116.02	C
ATOM	7038	O	ASN	930	49.651	64.931	38.475	1.00	116.02	O
ATOM	7039	N	SER	931	50.511	67.010	38.376	1.00	89.55	N
ATOM	7040	CA	SER	931	49.976	67.287	37.067	1.00	89.55	C
ATOM	7041	CB	SER	931	50.255	68.727	36.604	1.00	89.55	C
ATOM	7042	OG	SER	931	49.601	69.651	37.463	1.00	89.55	O
ATOM	7043	C	SER	931	50.572	66.370	36.045	1.00	89.55	C
ATOM	7044	O	SER	931	49.972	66.123	34.998	1.00	89.55	O
ATOM	7045	N	LEU	932	51.782	65.854	36.309	1.00	108.59	N
ATOM	7046	CA	LEU	932	52.432	64.981	35.376	1.00	108.59	C
ATOM	7047	CB	LEU	932	53.864	64.620	35.841	1.00	108.59	C
ATOM	7048	CG	LEU	932	54.739	63.778	34.883	1.00	108.59	C
ATOM	7049	CD1	LEU	932	56.153	63.613	35.461	1.00	108.59	C
ATOM	7050	CD2	LEU	932	54.125	62.409	34.548	1.00	108.59	C
ATOM	7051	C	LEU	932	51.598	63.737	35.260	1.00	108.59	C
ATOM	7052	O	LEU	932	51.510	63.138	34.193	1.00	108.59	O
ATOM	7053	N	ARG	933	51.010	63.282	36.381	1.00	103.81	N
ATOM	7054	CA	ARG	933	50.155	62.123	36.437	1.00	103.81	C
ATOM	7055	CB	ARG	933	49.863	61.699	37.887	1.00	103.81	C
ATOM	7056	CG	ARG	933	49.056	60.406	38.027	1.00	103.81	C
ATOM	7057	CD	ARG	933	48.500	60.206	39.440	1.00	103.81	C
ATOM	7058	NE	ARG	933	47.797	58.893	39.479	1.00	103.81	N
ATOM	7059	CZ	ARG	933	48.475	57.774	39.868	1.00	103.81	C
ATOM	7060	NH1	ARG	933	49.782	57.868	40.251	1.00	103.81	N
ATOM	7061	NH2	ARG	933	47.845	56.563	39.885	1.00	103.81	N
ATOM	7062	C	ARG	933	48.833	62.410	35.789	1.00	103.81	C
ATOM	7063	O	ARG	933	48.203	61.519	35.220	1.00	103.81	O
ATOM	7064	N	LYS	934	48.378	63.674	35.878	1.00	154.75	N
ATOM	7065	CA	LYS	934	47.076	64.094	35.438	1.00	154.75	C
ATOM	7066	CB	LYS	934	46.924	65.616	35.565	1.00	154.75	C
ATOM	7067	CG	LYS	934	45.476	66.067	35.638	1.00	154.75	C
ATOM	7068	CD	LYS	934	44.848	65.547	36.923	1.00	154.75	C
ATOM	7069	CE	LYS	934	45.881	65.449	38.046	1.00	154.75	C
ATOM	7070	NZ	LYS	934	45.337	64.698	39.196	1.00	154.75	N
ATOM	7071	C	LYS	934	46.903	63.781	33.987	1.00	154.75	C
ATOM	7072	O	LYS	934	45.864	63.274	33.563	1.00	154.75	O

ATOM	7073	N	ALA	935	47.936	64.066	33.184	1.00	38.29	N
ATOM	7074	CA	ALA	935	47.862	63.849	31.770	1.00	38.29	C
ATOM	7075	CB	ALA	935	49.159	64.244	31.038	1.00	38.29	C
ATOM	7076	C	ALA	935	47.636	62.394	31.537	1.00	38.29	C
ATOM	7077	O	ALA	935	46.916	62.006	30.618	1.00	38.29	O
ATOM	7078	N	HIS	936	48.269	61.549	32.369	1.00	47.27	N
ATOM	7079	CA	HIS	936	48.166	60.130	32.215	1.00	47.27	C
ATOM	7080	ND1	HIS	936	50.332	57.486	32.097	1.00	47.27	N
ATOM	7081	CG	HIS	936	49.257	57.928	32.837	1.00	47.27	C
ATOM	7082	CB	HIS	936	49.049	59.364	33.216	1.00	47.27	C
ATOM	7083	NE2	HIS	936	49.090	55.697	32.541	1.00	47.27	N
ATOM	7084	CD2	HIS	936	48.508	56.822	33.100	1.00	47.27	C
ATOM	7085	CE1	HIS	936	50.182	56.146	31.949	1.00	47.27	C
ATOM	7086	C	HIS	936	46.742	59.707	32.434	1.00	47.27	C
ATOM	7087	O	HIS	936	46.225	58.866	31.701	1.00	47.27	O
ATOM	7088	N	ILE	937	46.067	60.256	33.465	1.00	136.15	N
ATOM	7089	CA	ILE	937	44.720	59.827	33.727	1.00	136.15	C
ATOM	7090	CB	ILE	937	44.188	60.288	35.059	1.00	136.15	C
ATOM	7091	CG1	ILE	937	42.860	59.576	35.363	1.00	136.15	C
ATOM	7092	CG2	ILE	937	44.091	61.821	35.069	1.00	136.15	C
ATOM	7093	CD1	ILE	937	43.011	58.070	35.574	1.00	136.15	C
ATOM	7094	C	ILE	937	43.776	60.269	32.642	1.00	136.15	C
ATOM	7095	O	ILE	937	43.042	59.461	32.077	1.00	136.15	O
ATOM	7096	N	PHE	938	43.823	61.559	32.272	1.00	85.47	N
ATOM	7097	CA	PHE	938	42.933	62.134	31.304	1.00	85.47	C
ATOM	7098	CB	PHE	938	43.080	63.659	31.195	1.00	85.47	C
ATOM	7099	CG	PHE	938	42.547	64.177	32.486	1.00	85.47	C
ATOM	7100	CD1	PHE	938	41.188	64.265	32.680	1.00	85.47	C
ATOM	7101	CD2	PHE	938	43.392	64.562	33.501	1.00	85.47	C
ATOM	7102	CE1	PHE	938	40.675	64.735	33.866	1.00	85.47	C
ATOM	7103	CE2	PHE	938	42.883	65.032	34.688	1.00	85.47	C
ATOM	7104	CZ	PHE	938	41.525	65.122	34.873	1.00	85.47	C
ATOM	7105	C	PHE	938	43.179	61.501	29.978	1.00	85.47	C
ATOM	7106	O	PHE	938	42.300	61.474	29.120	1.00	85.47	O
ATOM	7107	N	GLY	939	44.414	61.044	29.732	1.00	30.93	N
ATOM	7108	CA	GLY	939	44.646	60.369	28.493	1.00	30.93	C
ATOM	7109	C	GLY	939	43.789	59.133	28.457	1.00	30.93	C
ATOM	7110	O	GLY	939	43.215	58.800	27.421	1.00	30.93	O
ATOM	7111	N	ILE	940	43.715	58.402	29.591	1.00	100.34	N
ATOM	7112	CA	ILE	940	42.978	57.169	29.697	1.00	100.34	C
ATOM	7113	CB	ILE	940	43.243	56.467	31.000	1.00	100.34	C
ATOM	7114	CG1	ILE	940	44.745	56.171	31.170	1.00	100.34	C
ATOM	7115	CG2	ILE	940	42.360	55.209	31.043	1.00	100.34	C
ATOM	7116	CD1	ILE	940	45.325	55.233	30.113	1.00	100.34	C
ATOM	7117	C	ILE	940	41.493	57.404	29.627	1.00	100.34	C
ATOM	7118	O	ILE	940	40.783	56.726	28.884	1.00	100.34	O
ATOM	7119	N	THR	941	40.983	58.394	30.389	1.00	50.65	N
ATOM	7120	CA	THR	941	39.567	58.623	30.476	1.00	50.65	C
ATOM	7121	CB	THR	941	39.186	59.735	31.414	1.00	50.65	C
ATOM	7122	OG1	THR	941	39.663	60.982	30.930	1.00	50.65	O
ATOM	7123	CG2	THR	941	39.784	59.437	32.800	1.00	50.65	C
ATOM	7124	C	THR	941	39.060	59.000	29.129	1.00	50.65	C
ATOM	7125	O	THR	941	37.931	58.669	28.773	1.00	50.65	O
ATOM	7126	N	PHE	942	39.870	59.762	28.373	1.00	68.25	N
ATOM	7127	CA	PHE	942	39.500	60.177	27.053	1.00	68.25	C
ATOM	7128	CB	PHE	942	40.485	61.204	26.469	1.00	68.25	C
ATOM	7129	CG	PHE	942	39.961	61.658	25.151	1.00	68.25	C
ATOM	7130	CD1	PHE	942	38.915	62.550	25.084	1.00	68.25	C
ATOM	7131	CD2	PHE	942	40.526	61.205	23.982	1.00	68.25	C
ATOM	7132	CE1	PHE	942	38.433	62.974	23.868	1.00	68.25	C
ATOM	7133	CE2	PHE	942	40.047	61.627	22.764	1.00	68.25	C
ATOM	7134	CZ	PHE	942	38.998	62.512	22.704	1.00	68.25	C
ATOM	7135	C	PHE	942	39.451	58.979	26.145	1.00	68.25	C
ATOM	7136	O	PHE	942	38.533	58.841	25.338	1.00	68.25	O
ATOM	7137	N	SER	943	40.448	58.078	26.242	1.00	41.23	N
ATOM	7138	CA	SER	943	40.509	56.933	25.370	1.00	41.23	C
ATOM	7139	CB	SER	943	41.819	56.141	25.526	1.00	41.23	C
ATOM	7140	OG	SER	943	42.925	56.942	25.136	1.00	41.23	O
ATOM	7141	C	SER	943	39.381	55.979	25.646	1.00	41.23	C
ATOM	7142	O	SER	943	38.724	55.486	24.730	1.00	41.23	O
ATOM	7143	N	PHE	944	39.112	55.721	26.935	1.00	73.35	N
ATOM	7144	CA	PHE	944	38.150	54.749	27.374	1.00	73.35	C
ATOM	7145	CB	PHE	944	38.151	54.594	28.907	1.00	73.35	C
ATOM	7146	CG	PHE	944	37.238	53.478	29.287	1.00	73.35	C

ATOM	7147	CD1	PHE	944	37.651	52.170	29.175	1.00	73.35	C
ATOM	7148	CD2	PHE	944	35.977	53.738	29.773	1.00	73.35	C
ATOM	7149	CE1	PHE	944	36.814	51.137	29.530	1.00	73.35	C
ATOM	7150	CE2	PHE	944	35.137	52.711	30.130	1.00	73.35	C
ATOM	7151	CZ	PHE	944	35.555	51.407	30.008	1.00	73.35	C
ATOM	7152	C	PHE	944	36.777	55.156	26.940	1.00	73.35	C
ATOM	7153	O	PHE	944	35.905	54.310	26.754	1.00	73.35	O
ATOM	7154	N	THR	945	36.499	56.469	26.887	1.00	50.31	N
ATOM	7155	CA	THR	945	35.204	56.896	26.441	1.00	50.31	C
ATOM	7156	CB	THR	945	34.959	58.358	26.682	1.00	50.31	C
ATOM	7157	OG1	THR	945	35.902	59.140	25.963	1.00	50.31	O
ATOM	7158	CG2	THR	945	35.077	58.637	28.190	1.00	50.31	C
ATOM	7159	C	THR	945	35.042	56.646	24.974	1.00	50.31	C
ATOM	7160	O	THR	945	34.049	56.066	24.541	1.00	50.31	O
ATOM	7161	N	GLN	946	36.041	57.062	24.172	1.00	52.10	N
ATOM	7162	CA	GLN	946	35.955	56.977	22.741	1.00	52.10	C
ATOM	7163	CB	GLN	946	37.150	57.639	22.038	1.00	52.10	C
ATOM	7164	CG	GLN	946	37.261	59.133	22.343	1.00	52.10	C
ATOM	7165	CD	GLN	946	35.986	59.802	21.855	1.00	52.10	C
ATOM	7166	OE1	GLN	946	35.730	59.882	20.654	1.00	52.10	O
ATOM	7167	NE2	GLN	946	35.157	60.294	22.815	1.00	52.10	N
ATOM	7168	C	GLN	946	35.916	55.546	22.306	1.00	52.10	C
ATOM	7169	O	GLN	946	35.159	55.184	21.407	1.00	52.10	O
ATOM	7170	N	ALA	947	36.742	54.692	22.932	1.00	35.47	N
ATOM	7171	CA	ALA	947	36.819	53.315	22.537	1.00	35.47	C
ATOM	7172	CB	ALA	947	37.887	52.533	23.320	1.00	35.47	C
ATOM	7173	C	ALA	947	35.499	52.647	22.776	1.00	35.47	C
ATOM	7174	O	ALA	947	35.013	51.891	21.937	1.00	35.47	O
ATOM	7175	N	MET	948	34.865	52.941	23.923	1.00	56.00	N
ATOM	7176	CA	MET	948	33.632	52.304	24.287	1.00	56.00	C
ATOM	7177	CB	MET	948	33.106	52.723	25.670	1.00	56.00	C
ATOM	7178	CG	MET	948	33.873	52.091	26.831	1.00	56.00	C
ATOM	7179	SD	MET	948	33.626	50.295	26.987	1.00	56.00	S
ATOM	7180	CE	MET	948	31.917	50.418	27.594	1.00	56.00	C
ATOM	7181	C	MET	948	32.574	52.638	23.287	1.00	56.00	C
ATOM	7182	O	MET	948	31.668	51.837	23.067	1.00	56.00	O
ATOM	7183	N	MET	949	32.590	53.866	22.734	1.00	137.69	N
ATOM	7184	CA	MET	949	31.617	54.189	21.730	1.00	137.69	C
ATOM	7185	CB	MET	949	31.557	55.683	21.365	1.00	137.69	C
ATOM	7186	CG	MET	949	30.676	56.506	22.310	1.00	137.69	C
ATOM	7187	SD	MET	949	31.323	56.753	23.989	1.00	137.69	S
ATOM	7188	CE	MET	949	32.481	58.065	23.506	1.00	137.69	C
ATOM	7189	C	MET	949	31.845	53.411	20.465	1.00	137.69	C
ATOM	7190	O	MET	949	30.906	52.849	19.905	1.00	137.69	O
ATOM	7191	N	TYR	950	33.105	53.340	19.990	1.00	66.30	N
ATOM	7192	CA	TYR	950	33.426	52.682	18.750	1.00	66.30	C
ATOM	7193	CB	TYR	950	34.895	52.874	18.328	1.00	66.30	C
ATOM	7194	CG	TYR	950	35.048	54.266	17.817	1.00	66.30	C
ATOM	7195	CD1	TYR	950	35.083	55.344	18.671	1.00	66.30	C
ATOM	7196	CD2	TYR	950	35.172	54.490	16.465	1.00	66.30	C
ATOM	7197	CE1	TYR	950	35.227	56.623	18.183	1.00	66.30	C
ATOM	7198	CE2	TYR	950	35.317	55.764	15.970	1.00	66.30	C
ATOM	7199	CZ	TYR	950	35.343	56.834	16.830	1.00	66.30	C
ATOM	7200	OH	TYR	950	35.491	58.143	16.324	1.00	66.30	O
ATOM	7201	C	TYR	950	33.167	51.212	18.839	1.00	66.30	C
ATOM	7202	O	TYR	950	32.648	50.612	17.898	1.00	66.30	O
ATOM	7203	N	PHE	951	33.552	50.581	19.962	1.00	49.92	N
ATOM	7204	CA	PHE	951	33.333	49.171	20.097	1.00	49.92	C
ATOM	7205	CB	PHE	951	33.944	48.559	21.372	1.00	49.92	C
ATOM	7206	CG	PHE	951	35.430	48.587	21.237	1.00	49.92	C
ATOM	7207	CD1	PHE	951	36.064	47.757	20.341	1.00	49.92	C
ATOM	7208	CD2	PHE	951	36.195	49.419	22.021	1.00	49.92	C
ATOM	7209	CE1	PHE	951	37.433	47.775	20.216	1.00	49.92	C
ATOM	7210	CE2	PHE	951	37.565	49.443	21.902	1.00	49.92	C
ATOM	7211	CZ	PHE	951	38.188	48.620	20.995	1.00	49.92	C
ATOM	7212	C	PHE	951	31.857	48.905	20.127	1.00	49.92	C
ATOM	7213	O	PHE	951	31.373	47.973	19.486	1.00	49.92	O
ATOM	7214	N	SER	952	31.095	49.726	20.875	1.00	30.42	N
ATOM	7215	CA	SER	952	29.679	49.520	20.992	1.00	30.42	C
ATOM	7216	CB	SER	952	29.008	50.477	21.995	1.00	30.42	C
ATOM	7217	OG	SER	952	29.106	51.818	21.539	1.00	30.42	O
ATOM	7218	C	SER	952	29.047	49.739	19.656	1.00	30.42	C
ATOM	7219	O	SER	952	28.011	49.154	19.344	1.00	30.42	O
ATOM	7220	N	TYR	953	29.664	50.601	18.830	1.00	65.62	N

ATOM	7221	CA	TYR	953	29.158	50.894	17.523	1.00	65.62	C
ATOM	7222	CB	TYR	953	30.028	51.939	16.801	1.00	65.62	C
ATOM	7223	CG	TYR	953	29.242	52.545	15.689	1.00	65.62	C
ATOM	7224	CD1	TYR	953	28.388	53.588	15.966	1.00	65.62	C
ATOM	7225	CD2	TYR	953	29.351	52.102	14.391	1.00	65.62	C
ATOM	7226	CE1	TYR	953	27.648	54.181	14.973	1.00	65.62	C
ATOM	7227	CE2	TYR	953	28.611	52.692	13.391	1.00	65.62	C
ATOM	7228	CZ	TYR	953	27.760	53.733	13.681	1.00	65.62	C
ATOM	7229	OH	TYR	953	27.002	54.341	12.658	1.00	65.62	O
ATOM	7230	C	TYR	953	29.232	49.605	16.757	1.00	65.62	C
ATOM	7231	O	TYR	953	28.355	49.286	15.957	1.00	65.62	O
ATOM	7232	N	ALA	954	30.337	48.858	16.945	1.00	40.74	N
ATOM	7233	CA	ALA	954	30.546	47.577	16.330	1.00	40.74	C
ATOM	7234	CB	ALA	954	31.974	47.043	16.535	1.00	40.74	C
ATOM	7235	C	ALA	954	29.606	46.559	16.896	1.00	40.74	C
ATOM	7236	O	ALA	954	29.061	45.732	16.168	1.00	40.74	O
ATOM	7237	N	GLY	955	29.390	46.598	18.223	1.00	28.77	N
ATOM	7238	CA	GLY	955	28.592	45.603	18.879	1.00	28.77	C
ATOM	7239	C	GLY	955	27.199	45.637	18.337	1.00	28.77	C
ATOM	7240	O	GLY	955	26.549	44.600	18.211	1.00	28.77	O
ATOM	7241	N	CYS	956	26.671	46.845	18.080	1.00	53.64	N
ATOM	7242	CA	CYS	956	25.338	46.957	17.564	1.00	53.64	C
ATOM	7243	CB	CYS	956	24.834	48.410	17.543	1.00	53.64	C
ATOM	7244	SG	CYS	956	23.144	48.557	16.892	1.00	53.64	S
ATOM	7245	C	CYS	956	25.249	46.435	16.160	1.00	53.64	C
ATOM	7246	O	CYS	956	24.429	45.574	15.849	1.00	53.64	O
ATOM	7247	N	PHE	957	26.132	46.924	15.277	1.00	121.45	N
ATOM	7248	CA	PHE	957	26.108	46.590	13.884	1.00	121.45	C
ATOM	7249	CB	PHE	957	26.953	47.518	12.992	1.00	121.45	C
ATOM	7250	CG	PHE	957	26.163	48.780	12.882	1.00	121.45	C
ATOM	7251	CD1	PHE	957	25.102	48.859	12.006	1.00	121.45	C
ATOM	7252	CD2	PHE	957	26.468	49.879	13.650	1.00	121.45	C
ATOM	7253	CE1	PHE	957	24.359	50.011	11.896	1.00	121.45	C
ATOM	7254	CE2	PHE	957	25.728	51.035	13.543	1.00	121.45	C
ATOM	7255	CZ	PHE	957	24.670	51.104	12.668	1.00	121.45	C
ATOM	7256	C	PHE	957	26.496	45.164	13.661	1.00	121.45	C
ATOM	7257	O	PHE	957	26.285	44.644	12.567	1.00	121.45	O
ATOM	7258	N	ARG	958	27.254	44.541	14.582	1.00	205.39	N
ATOM	7259	CA	ARG	958	27.451	43.137	14.361	1.00	205.39	C
ATOM	7260	CB	ARG	958	28.661	42.521	15.080	1.00	205.39	C
ATOM	7261	CG	ARG	958	28.624	42.503	16.603	1.00	205.39	C
ATOM	7262	CD	ARG	958	29.840	41.774	17.174	1.00	205.39	C
ATOM	7263	NE	ARG	958	29.920	40.449	16.490	1.00	205.39	N
ATOM	7264	CZ	ARG	958	30.616	40.325	15.319	1.00	205.39	C
ATOM	7265	NH1	ARG	958	31.287	41.399	14.811	1.00	205.39	N
ATOM	7266	NH2	ARG	958	30.641	39.135	14.649	1.00	205.39	N
ATOM	7267	C	ARG	958	26.214	42.353	14.722	1.00	205.39	C
ATOM	7268	O	ARG	958	25.764	41.499	13.960	1.00	205.39	O
ATOM	7269	N	PHE	959	25.616	42.642	15.898	1.00	51.62	N
ATOM	7270	CA	PHE	959	24.474	41.908	16.381	1.00	51.62	C
ATOM	7271	CB	PHE	959	24.073	42.291	17.816	1.00	51.62	C
ATOM	7272	CG	PHE	959	22.892	41.459	18.184	1.00	51.62	C
ATOM	7273	CD1	PHE	959	23.051	40.154	18.590	1.00	51.62	C
ATOM	7274	CD2	PHE	959	21.622	41.989	18.128	1.00	51.62	C
ATOM	7275	CE1	PHE	959	21.961	39.388	18.930	1.00	51.62	C
ATOM	7276	CE2	PHE	959	20.529	41.227	18.467	1.00	51.62	C
ATOM	7277	CZ	PHE	959	20.698	39.924	18.869	1.00	51.62	C
ATOM	7278	C	PHE	959	23.297	42.167	15.502	1.00	51.62	C
ATOM	7279	O	PHE	959	22.538	41.260	15.162	1.00	51.62	O
ATOM	7280	N	GLY	960	23.121	43.439	15.106	1.00	31.98	N
ATOM	7281	CA	GLY	960	22.012	43.855	14.306	1.00	31.98	C
ATOM	7282	C	GLY	960	22.053	43.131	12.997	1.00	31.98	C
ATOM	7283	O	GLY	960	21.013	42.817	12.420	1.00	31.98	O
ATOM	7284	N	ALA	961	23.266	42.893	12.470	1.00	37.97	N
ATOM	7285	CA	ALA	961	23.438	42.219	11.215	1.00	37.97	C
ATOM	7286	CB	ALA	961	24.909	42.152	10.771	1.00	37.97	C
ATOM	7287	C	ALA	961	22.940	40.811	11.320	1.00	37.97	C
ATOM	7288	O	ALA	961	22.333	40.286	10.387	1.00	37.97	O
ATOM	7289	N	TYR	962	23.182	40.157	12.471	1.00	57.20	N
ATOM	7290	CA	TYR	962	22.812	38.782	12.626	1.00	57.20	C
ATOM	7291	CB	TYR	962	23.236	38.144	13.959	1.00	57.20	C
ATOM	7292	CG	TYR	962	22.994	36.682	13.783	1.00	57.20	C
ATOM	7293	CD1	TYR	962	23.933	35.907	13.140	1.00	57.20	C
ATOM	7294	CD2	TYR	962	21.843	36.085	14.242	1.00	57.20	C

ATOM	7295	CE1	TYR	962	23.732	34.559	12.960	1.00	57.20	C
ATOM	7296	CE2	TYR	962	21.636	34.736	14.065	1.00	57.20	C
ATOM	7297	CZ	TYR	962	22.581	33.971	13.423	1.00	57.20	C
ATOM	7298	OH	TYR	962	22.371	32.587	13.240	1.00	57.20	O
ATOM	7299	C	TYR	962	21.323	38.666	12.524	1.00	57.20	C
ATOM	7300	O	TYR	962	20.811	37.672	12.013	1.00	57.20	O
ATOM	7301	N	LEU	963	20.588	39.673	13.032	1.00	66.71	N
ATOM	7302	CA	LEU	963	19.151	39.658	13.043	1.00	66.71	C
ATOM	7303	CB	LEU	963	18.529	40.886	13.731	1.00	66.71	C
ATOM	7304	CG	LEU	963	18.797	40.946	15.244	1.00	66.71	C
ATOM	7305	CD1	LEU	963	18.075	42.138	15.893	1.00	66.71	C
ATOM	7306	CD2	LEU	963	18.468	39.604	15.917	1.00	66.71	C
ATOM	7307	C	LEU	963	18.596	39.625	11.648	1.00	66.71	C
ATOM	7308	O	LEU	963	17.539	39.040	11.422	1.00	66.71	O
ATOM	7309	N	VAL	964	19.239	40.322	10.693	1.00	50.88	N
ATOM	7310	CA	VAL	964	18.773	40.369	9.332	1.00	50.88	C
ATOM	7311	CB	VAL	964	19.457	41.436	8.530	1.00	50.88	C
ATOM	7312	CG1	VAL	964	18.935	41.379	7.083	1.00	50.88	C
ATOM	7313	CG2	VAL	964	19.214	42.786	9.227	1.00	50.88	C
ATOM	7314	C	VAL	964	18.970	39.056	8.621	1.00	50.88	C
ATOM	7315	O	VAL	964	18.120	38.628	7.841	1.00	50.88	O
ATOM	7316	N	ALA	965	20.105	38.375	8.862	1.00	40.45	N
ATOM	7317	CA	ALA	965	20.403	37.162	8.150	1.00	40.45	C
ATOM	7318	CB	ALA	965	21.754	36.550	8.561	1.00	40.45	C
ATOM	7319	C	ALA	965	19.346	36.131	8.418	1.00	40.45	C
ATOM	7320	O	ALA	965	18.898	35.438	7.505	1.00	40.45	O
ATOM	7321	N	HIS	966	18.920	36.016	9.687	1.00	80.45	N
ATOM	7322	CA	HIS	966	17.961	35.045	10.136	1.00	80.45	C
ATOM	7323	ND1	HIS	966	17.816	32.315	12.101	1.00	80.45	N
ATOM	7324	CG	HIS	966	17.217	33.553	12.024	1.00	80.45	C
ATOM	7325	CB	HIS	966	17.953	34.811	11.653	1.00	80.45	C
ATOM	7326	NE2	HIS	966	15.670	32.010	12.598	1.00	80.45	N
ATOM	7327	CD2	HIS	966	15.906	33.347	12.330	1.00	80.45	C
ATOM	7328	CE1	HIS	966	16.847	31.430	12.447	1.00	80.45	C
ATOM	7329	C	HIS	966	16.568	35.389	9.684	1.00	80.45	C
ATOM	7330	O	HIS	966	15.653	34.588	9.851	1.00	80.45	O
ATOM	7331	N	LYS	967	16.364	36.609	9.154	1.00	148.53	N
ATOM	7332	CA	LYS	967	15.099	37.151	8.725	1.00	148.53	C
ATOM	7333	CB	LYS	967	14.287	36.255	7.761	1.00	148.53	C
ATOM	7334	CG	LYS	967	13.402	35.199	8.429	1.00	148.53	C
ATOM	7335	CD	LYS	967	12.390	34.559	7.477	1.00	148.53	C
ATOM	7336	CE	LYS	967	11.476	33.534	8.150	1.00	148.53	C
ATOM	7337	NZ	LYS	967	10.418	34.229	8.918	1.00	148.53	N
ATOM	7338	C	LYS	967	14.231	37.488	9.909	1.00	148.53	C
ATOM	7339	O	LYS	967	13.008	37.555	9.783	1.00	148.53	O
ATOM	7340	N	LEU	968	14.838	37.701	11.101	1.00	125.23	N
ATOM	7341	CA	LEU	968	14.087	38.141	12.253	1.00	125.23	C
ATOM	7342	CB	LEU	968	14.827	38.164	13.608	1.00	125.23	C
ATOM	7343	CG	LEU	968	15.054	36.819	14.314	1.00	125.23	C
ATOM	7344	CD1	LEU	968	16.163	36.014	13.644	1.00	125.23	C
ATOM	7345	CD2	LEU	968	15.287	37.015	15.821	1.00	125.23	C
ATOM	7346	C	LEU	968	13.640	39.565	12.102	1.00	125.23	C
ATOM	7347	O	LEU	968	12.546	39.925	12.533	1.00	125.23	O
ATOM	7348	N	MET	969	14.501	40.432	11.534	1.00	132.32	N
ATOM	7349	CA	MET	969	14.163	41.828	11.502	1.00	132.32	C
ATOM	7350	CB	MET	969	14.829	42.570	12.673	1.00	132.32	C
ATOM	7351	CG	MET	969	14.356	44.000	12.907	1.00	132.32	C
ATOM	7352	SD	MET	969	15.035	44.755	14.416	1.00	132.32	S
ATOM	7353	CE	MET	969	16.703	44.991	13.743	1.00	132.32	C
ATOM	7354	C	MET	969	14.680	42.413	10.223	1.00	132.32	C
ATOM	7355	O	MET	969	15.614	41.887	9.622	1.00	132.32	O
ATOM	7356	N	SER	970	14.056	43.519	9.765	1.00	43.02	N
ATOM	7357	CA	SER	970	14.460	44.161	8.546	1.00	43.02	C
ATOM	7358	CB	SER	970	13.318	44.909	7.838	1.00	43.02	C
ATOM	7359	OG	SER	970	12.894	46.011	8.628	1.00	43.02	O
ATOM	7360	C	SER	970	15.520	45.174	8.854	1.00	43.02	C
ATOM	7361	O	SER	970	15.687	45.613	9.990	1.00	43.02	O
ATOM	7362	N	PHE	971	16.258	45.585	7.807	1.00	75.01	N
ATOM	7363	CA	PHE	971	17.307	46.555	7.918	1.00	75.01	C
ATOM	7364	CB	PHE	971	18.063	46.738	6.587	1.00	75.01	C
ATOM	7365	CG	PHE	971	19.145	47.753	6.753	1.00	75.01	C
ATOM	7366	CD1	PHE	971	20.305	47.453	7.427	1.00	75.01	C
ATOM	7367	CD2	PHE	971	19.005	49.008	6.203	1.00	75.01	C
ATOM	7368	CE1	PHE	971	21.299	48.395	7.566	1.00	75.01	C

ATOM	7369	CE2	PHE	971	19.995	49.952	6.337	1.00	75.01	C
ATOM	7370	CZ	PHE	971	21.147	49.647	7.021	1.00	75.01	C
ATOM	7371	C	PHE	971	16.695	47.861	8.317	1.00	75.01	C
ATOM	7372	O	PHE	971	17.306	48.653	9.035	1.00	75.01	O
ATOM	7373	N	GLU	972	15.469	48.143	7.838	1.00	50.25	N
ATOM	7374	CA	GLU	972	14.841	49.381	8.199	1.00	50.25	C
ATOM	7375	CB	GLU	972	13.435	49.561	7.609	1.00	50.25	C
ATOM	7376	CG	GLU	972	12.803	50.892	8.020	1.00	50.25	C
ATOM	7377	CD	GLU	972	11.357	50.897	7.554	1.00	50.25	C
ATOM	7378	OE1	GLU	972	10.998	50.026	6.717	1.00	50.25	O
ATOM	7379	OE2	GLU	972	10.589	51.773	8.034	1.00	50.25	O
ATOM	7380	C	GLU	972	14.670	49.425	9.686	1.00	50.25	C
ATOM	7381	O	GLU	972	14.877	50.464	10.311	1.00	50.25	O
ATOM	7382	N	ASP	973	14.291	48.288	10.293	1.00	49.61	N
ATOM	7383	CA	ASP	973	14.037	48.234	11.705	1.00	49.61	C
ATOM	7384	CB	ASP	973	13.518	46.861	12.163	1.00	49.61	C
ATOM	7385	CG	ASP	973	12.109	46.682	11.614	1.00	49.61	C
ATOM	7386	OD1	ASP	973	11.523	47.694	11.145	1.00	49.61	O
ATOM	7387	OD2	ASP	973	11.601	45.530	11.660	1.00	49.61	O
ATOM	7388	C	ASP	973	15.305	48.515	12.450	1.00	49.61	C
ATOM	7389	O	ASP	973	15.272	49.072	13.547	1.00	49.61	O
ATOM	7390	N	VAL	974	16.462	48.104	11.896	1.00	53.70	N
ATOM	7391	CA	VAL	974	17.703	48.351	12.576	1.00	53.70	C
ATOM	7392	CB	VAL	974	18.886	47.827	11.813	1.00	53.70	C
ATOM	7393	CG1	VAL	974	20.175	48.273	12.524	1.00	53.70	C
ATOM	7394	CG2	VAL	974	18.744	46.301	11.683	1.00	53.70	C
ATOM	7395	C	VAL	974	17.890	49.833	12.737	1.00	53.70	C
ATOM	7396	O	VAL	974	18.119	50.327	13.842	1.00	53.70	O
ATOM	7397	N	LEU	975	17.762	50.600	11.639	1.00	106.16	N
ATOM	7398	CA	LEU	975	17.980	52.016	11.746	1.00	106.16	C
ATOM	7399	CB	LEU	975	18.043	52.757	10.401	1.00	106.16	C
ATOM	7400	CG	LEU	975	19.255	52.307	9.564	1.00	106.16	C
ATOM	7401	CD1	LEU	975	19.011	50.929	8.941	1.00	106.16	C
ATOM	7402	CD2	LEU	975	19.705	53.373	8.559	1.00	106.16	C
ATOM	7403	C	LEU	975	16.914	52.614	12.602	1.00	106.16	C
ATOM	7404	O	LEU	975	17.146	53.595	13.305	1.00	106.16	O
ATOM	7405	N	LEU	976	15.699	52.046	12.543	1.00	120.58	N
ATOM	7406	CA	LEU	976	14.609	52.545	13.327	1.00	120.58	C
ATOM	7407	CB	LEU	976	13.285	51.849	12.947	1.00	120.58	C
ATOM	7408	CG	LEU	976	12.004	52.454	13.553	1.00	120.58	C
ATOM	7409	CD1	LEU	976	10.760	51.825	12.909	1.00	120.58	C
ATOM	7410	CD2	LEU	976	11.967	52.332	15.084	1.00	120.58	C
ATOM	7411	C	LEU	976	14.938	52.344	14.783	1.00	120.58	C
ATOM	7412	O	LEU	976	14.529	53.131	15.634	1.00	120.58	O
ATOM	7413	N	VAL	977	15.613	51.233	15.138	1.00	66.13	N
ATOM	7414	CA	VAL	977	16.015	51.048	16.509	1.00	66.13	C
ATOM	7415	CB	VAL	977	16.454	49.640	16.791	1.00	66.13	C
ATOM	7416	CG1	VAL	977	16.983	49.565	18.234	1.00	66.13	C
ATOM	7417	CG2	VAL	977	15.274	48.694	16.509	1.00	66.13	C
ATOM	7418	C	VAL	977	17.162	51.956	16.881	1.00	66.13	C
ATOM	7419	O	VAL	977	17.096	52.714	17.850	1.00	66.13	O
ATOM	7420	N	PHE	978	18.241	51.929	16.073	1.00	86.64	N
ATOM	7421	CA	PHE	978	19.469	52.615	16.389	1.00	86.64	C
ATOM	7422	CB	PHE	978	20.530	52.367	15.298	1.00	86.64	C
ATOM	7423	CG	PHE	978	21.752	53.180	15.561	1.00	86.64	C
ATOM	7424	CD1	PHE	978	22.710	52.755	16.452	1.00	86.64	C
ATOM	7425	CD2	PHE	978	21.944	54.368	14.893	1.00	86.64	C
ATOM	7426	CE1	PHE	978	23.836	53.514	16.678	1.00	86.64	C
ATOM	7427	CE2	PHE	978	23.066	55.130	15.114	1.00	86.64	C
ATOM	7428	CZ	PHE	978	24.016	54.702	16.009	1.00	86.64	C
ATOM	7429	C	PHE	978	19.251	54.094	16.509	1.00	86.64	C
ATOM	7430	O	PHE	978	19.611	54.715	17.511	1.00	86.64	O
ATOM	7431	N	SER	979	18.629	54.695	15.485	1.00	78.29	N
ATOM	7432	CA	SER	979	18.436	56.113	15.455	1.00	78.29	C
ATOM	7433	CB	SER	979	18.014	56.634	14.067	1.00	78.29	C
ATOM	7434	OG	SER	979	16.744	56.115	13.701	1.00	78.29	O
ATOM	7435	C	SER	979	17.393	56.535	16.447	1.00	78.29	C
ATOM	7436	O	SER	979	17.200	57.731	16.646	1.00	78.29	O
ATOM	7437	N	ALA	980	16.569	55.596	16.955	1.00	79.00	N
ATOM	7438	CA	ALA	980	15.606	55.921	17.980	1.00	79.00	C
ATOM	7439	CB	ALA	980	14.485	54.872	18.084	1.00	79.00	C
ATOM	7440	C	ALA	980	16.220	56.041	19.348	1.00	79.00	C
ATOM	7441	O	ALA	980	15.908	56.959	20.106	1.00	79.00	O
ATOM	7442	N	VAL	981	17.031	55.034	19.738	1.00	133.34	N

ATOM	7443	CA	VAL	981	17.643	55.023	21.038	1.00133.34	C
ATOM	7444	CB	VAL	981	18.061	53.641	21.468	1.00133.34	C
ATOM	7445	CG1	VAL	981	16.789	52.795	21.647	1.00133.34	C
ATOM	7446	CG2	VAL	981	19.035	53.052	20.433	1.00133.34	C
ATOM	7447	C	VAL	981	18.835	55.931	21.124	1.00133.34	C
ATOM	7448	O	VAL	981	18.909	56.799	21.993	1.00133.34	O
ATOM	7449	N	VAL	982	19.799	55.756	20.196	1.00 77.02	N
ATOM	7450	CA	VAL	982	21.044	56.466	20.286	1.00 77.02	C
ATOM	7451	CB	VAL	982	22.035	56.000	19.260	1.00 77.02	C
ATOM	7452	CG1	VAL	982	23.321	56.833	19.398	1.00 77.02	C
ATOM	7453	CG2	VAL	982	22.246	54.486	19.446	1.00 77.02	C
ATOM	7454	C	VAL	982	20.840	57.937	20.102	1.00 77.02	C
ATOM	7455	O	VAL	982	21.179	58.750	20.964	1.00 77.02	O
ATOM	7456	N	PHE	983	20.209	58.318	18.982	1.00 93.71	N
ATOM	7457	CA	PHE	983	20.028	59.708	18.705	1.00 93.71	C
ATOM	7458	CB	PHE	983	19.384	60.006	17.339	1.00 93.71	C
ATOM	7459	CG	PHE	983	20.347	59.580	16.281	1.00 93.71	C
ATOM	7460	CD1	PHE	983	21.577	60.184	16.166	1.00 93.71	C
ATOM	7461	CD2	PHE	983	20.009	58.601	15.377	1.00 93.71	C
ATOM	7462	CE1	PHE	983	22.463	59.798	15.186	1.00 93.71	C
ATOM	7463	CE2	PHE	983	20.888	58.210	14.394	1.00 93.71	C
ATOM	7464	CZ	PHE	983	22.122	58.807	14.298	1.00 93.71	C
ATOM	7465	C	PHE	983	19.148	60.273	19.774	1.00 93.71	C
ATOM	7466	O	PHE	983	19.266	61.442	20.135	1.00 93.71	O
ATOM	7467	N	GLY	984	18.187	59.472	20.263	1.00 56.73	N
ATOM	7468	CA	GLY	984	17.287	59.924	21.292	1.00 56.73	C
ATOM	7469	C	GLY	984	17.995	60.139	22.599	1.00 56.73	C
ATOM	7470	O	GLY	984	17.702	61.088	23.324	1.00 56.73	O
ATOM	7471	N	ALA	985	18.923	59.231	22.951	1.00 60.78	N
ATOM	7472	CA	ALA	985	19.631	59.294	24.198	1.00 60.78	C
ATOM	7473	CB	ALA	985	20.567	58.093	24.413	1.00 60.78	C
ATOM	7474	C	ALA	985	20.460	60.537	24.219	1.00 60.78	C
ATOM	7475	O	ALA	985	20.650	61.161	25.262	1.00 60.78	O
ATOM	7476	N	MET	986	20.999	60.912	23.048	1.00 62.73	N
ATOM	7477	CA	MET	986	21.817	62.082	22.935	1.00 62.73	C
ATOM	7478	CB	MET	986	22.336	62.308	21.503	1.00 62.73	C
ATOM	7479	CG	MET	986	23.286	61.221	20.997	1.00 62.73	C
ATOM	7480	SD	MET	986	23.894	61.493	19.304	1.00 62.73	S
ATOM	7481	CE	MET	986	24.909	59.988	19.245	1.00 62.73	C
ATOM	7482	C	MET	986	20.987	63.283	23.282	1.00 62.73	C
ATOM	7483	O	MET	986	21.468	64.232	23.901	1.00 62.73	O
ATOM	7484	N	ALA	987	19.701	63.256	22.898	1.00 64.86	N
ATOM	7485	CA	ALA	987	18.828	64.390	23.018	1.00 64.86	C
ATOM	7486	CB	ALA	987	17.424	64.111	22.453	1.00 64.86	C
ATOM	7487	C	ALA	987	18.641	64.858	24.438	1.00 64.86	C
ATOM	7488	O	ALA	987	18.627	66.062	24.697	1.00 64.86	O
ATOM	7489	N	VAL	988	18.485	63.938	25.406	1.00 63.48	N
ATOM	7490	CA	VAL	988	18.187	64.357	26.751	1.00 63.48	C
ATOM	7491	CB	VAL	988	17.963	63.202	27.689	1.00 63.48	C
ATOM	7492	CG1	VAL	988	16.740	62.410	27.201	1.00 63.48	C
ATOM	7493	CG2	VAL	988	19.249	62.363	27.779	1.00 63.48	C
ATOM	7494	C	VAL	988	19.307	65.182	27.304	1.00 63.48	C
ATOM	7495	O	VAL	988	19.084	66.207	27.950	1.00 63.48	O
ATOM	7496	N	GLY	989	20.557	64.762	27.057	1.00 49.98	N
ATOM	7497	CA	GLY	989	21.658	65.475	27.627	1.00 49.98	C
ATOM	7498	C	GLY	989	21.670	66.867	27.099	1.00 49.98	C
ATOM	7499	O	GLY	989	21.919	67.823	27.834	1.00 49.98	O
ATOM	7500	N	GLN	990	21.384	67.018	25.796	1.00 52.91	N
ATOM	7501	CA	GLN	990	21.449	68.324	25.224	1.00 52.91	C
ATOM	7502	CB	GLN	990	21.110	68.342	23.723	1.00 52.91	C
ATOM	7503	CG	GLN	990	21.254	69.725	23.084	1.00 52.91	C
ATOM	7504	CD	GLN	990	20.976	69.589	21.595	1.00 52.91	C
ATOM	7505	OE1	GLN	990	21.488	68.685	20.935	1.00 52.91	O
ATOM	7506	NE2	GLN	990	20.138	70.509	21.047	1.00 52.91	N
ATOM	7507	C	GLN	990	20.466	69.189	25.947	1.00 52.91	C
ATOM	7508	O	GLN	990	20.753	70.351	26.226	1.00 52.91	O
ATOM	7509	N	VAL	991	19.275	68.647	26.266	1.00 81.26	N
ATOM	7510	CA	VAL	991	18.261	69.427	26.922	1.00 81.26	C
ATOM	7511	CB	VAL	991	16.952	68.696	27.030	1.00 81.26	C
ATOM	7512	CG1	VAL	991	15.981	69.545	27.868	1.00 81.26	C
ATOM	7513	CG2	VAL	991	16.439	68.394	25.612	1.00 81.26	C
ATOM	7514	C	VAL	991	18.655	69.849	28.324	1.00 81.26	C
ATOM	7515	O	VAL	991	18.655	71.038	28.642	1.00 81.26	O
ATOM	7516	N	SER	992	19.061	68.897	29.193	1.00 84.48	N

ATOM	7517	CA	SER	992	19.278	69.194	30.594	1.00	84.48	C
ATOM	7518	CB	SER	992	19.660	67.946	31.407	1.00	84.48	C
ATOM	7519	OG	SER	992	18.595	67.006	31.385	1.00	84.48	O
ATOM	7520	C	SER	992	20.380	70.186	30.747	1.00	84.48	C
ATOM	7521	O	SER	992	20.373	71.021	31.657	1.00	84.48	O
ATOM	7522	N	SER	993	21.374	70.090	29.856	1.00	97.61	N
ATOM	7523	CA	SER	993	22.496	70.968	29.919	1.00	97.61	C
ATOM	7524	CB	SER	993	23.617	70.560	28.951	1.00	97.61	C
ATOM	7525	OG	SER	993	24.701	71.469	29.058	1.00	97.61	O
ATOM	7526	C	SER	993	22.070	72.359	29.559	1.00	97.61	C
ATOM	7527	O	SER	993	22.622	73.325	30.077	1.00	97.61	O
ATOM	7528	N	PHE	994	21.092	72.498	28.640	1.00	70.83	N
ATOM	7529	CA	PHE	994	20.649	73.782	28.159	1.00	70.83	C
ATOM	7530	CB	PHE	994	19.692	73.681	26.961	1.00	70.83	C
ATOM	7531	CG	PHE	994	19.199	75.064	26.708	1.00	70.83	C
ATOM	7532	CD1	PHE	994	19.984	75.983	26.052	1.00	70.83	C
ATOM	7533	CD2	PHE	994	17.945	75.439	27.132	1.00	70.83	C
ATOM	7534	CE1	PHE	994	19.522	77.258	25.824	1.00	70.83	C
ATOM	7535	CE2	PHE	994	17.478	76.712	26.906	1.00	70.83	C
ATOM	7536	CZ	PHE	994	18.269	77.625	26.252	1.00	70.83	C
ATOM	7537	C	PHE	994	19.942	74.593	29.211	1.00	70.83	C
ATOM	7538	O	PHE	994	20.199	75.788	29.344	1.00	70.83	O
ATOM	7539	N	ALA	995	19.044	73.967	29.997	1.00	71.82	N
ATOM	7540	CA	ALA	995	18.206	74.675	30.939	1.00	71.82	C
ATOM	7541	CB	ALA	995	17.196	73.766	31.660	1.00	71.82	C
ATOM	7542	C	ALA	995	19.036	75.354	31.991	1.00	71.82	C
ATOM	7543	O	ALA	995	20.214	75.050	32.175	1.00	71.82	O
ATOM	7544	N	PRO	996	18.395	76.293	32.665	1.00	109.95	N
ATOM	7545	CA	PRO	996	19.008	77.109	33.688	1.00	109.95	C
ATOM	7546	CD	PRO	996	17.251	76.958	32.061	1.00	109.95	C
ATOM	7547	CB	PRO	996	17.986	78.192	34.022	1.00	109.95	C
ATOM	7548	CG	PRO	996	17.183	78.347	32.718	1.00	109.95	C
ATOM	7549	C	PRO	996	19.436	76.303	34.860	1.00	109.95	C
ATOM	7550	O	PRO	996	18.928	75.199	35.054	1.00	109.95	O
ATOM	7551	N	ASP	997	20.407	76.848	35.616	1.00	89.91	N
ATOM	7552	CA	ASP	997	20.966	76.224	36.775	1.00	89.91	C
ATOM	7553	CB	ASP	997	22.027	77.128	37.440	1.00	89.91	C
ATOM	7554	CG	ASP	997	22.703	76.412	38.600	1.00	89.91	C
ATOM	7555	OD1	ASP	997	22.407	75.207	38.818	1.00	89.91	O
ATOM	7556	OD2	ASP	997	23.528	77.070	39.289	1.00	89.91	O
ATOM	7557	C	ASP	997	19.846	76.032	37.742	1.00	89.91	C
ATOM	7558	O	ASP	997	19.374	76.975	38.378	1.00	89.91	O
ATOM	7559	N	TYR	998	19.413	74.768	37.875	1.00	128.95	N
ATOM	7560	CA	TYR	998	18.289	74.404	38.678	1.00	128.95	C
ATOM	7561	CB	TYR	998	17.980	72.912	38.549	1.00	128.95	C
ATOM	7562	CG	TYR	998	16.522	72.829	38.753	1.00	128.95	C
ATOM	7563	CD1	TYR	998	15.737	73.326	37.743	1.00	128.95	C
ATOM	7564	CD2	TYR	998	15.944	72.289	39.876	1.00	128.95	C
ATOM	7565	CE1	TYR	998	14.375	73.291	37.832	1.00	128.95	C
ATOM	7566	CE2	TYR	998	14.574	72.250	39.969	1.00	128.95	C
ATOM	7567	CZ	TYR	998	13.799	72.750	38.949	1.00	128.95	C
ATOM	7568	OH	TYR	998	12.399	72.706	39.042	1.00	128.95	O
ATOM	7569	C	TYR	998	18.620	74.650	40.125	1.00	128.95	C
ATOM	7570	O	TYR	998	17.814	75.179	40.895	1.00	128.95	O
ATOM	7571	N	ALA	999	19.847	74.266	40.526	1.00	71.98	N
ATOM	7572	CA	ALA	999	20.258	74.337	41.899	1.00	71.98	C
ATOM	7573	CB	ALA	999	21.685	73.806	42.121	1.00	71.98	C
ATOM	7574	C	ALA	999	20.219	75.767	42.367	1.00	71.98	C
ATOM	7575	O	ALA	999	19.711	76.072	43.449	1.00	71.98	O
ATOM	7576	N	LYS	1000	20.746	76.692	41.543	1.00	149.26	N
ATOM	7577	CA	LYS	1000	20.803	78.077	41.919	1.00	149.26	C
ATOM	7578	CB	LYS	1000	21.629	78.927	40.938	1.00	149.26	C
ATOM	7579	CG	LYS	1000	22.216	80.196	41.565	1.00	149.26	C
ATOM	7580	CD	LYS	1000	21.182	81.143	42.172	1.00	149.26	C
ATOM	7581	CE	LYS	1000	21.787	82.403	42.794	1.00	149.26	C
ATOM	7582	NZ	LYS	1000	22.525	82.055	44.028	1.00	149.26	N
ATOM	7583	C	LYS	1000	19.408	78.617	41.954	1.00	149.26	C
ATOM	7584	O	LYS	1000	19.082	79.488	42.760	1.00	149.26	O
ATOM	7585	N	ALA	1001	18.548	78.118	41.047	1.00	64.19	N
ATOM	7586	CA	ALA	1001	17.208	78.616	40.949	1.00	64.19	C
ATOM	7587	CB	ALA	1001	16.423	77.979	39.789	1.00	64.19	C
ATOM	7588	C	ALA	1001	16.432	78.345	42.210	1.00	64.19	C
ATOM	7589	O	ALA	1001	15.678	79.201	42.669	1.00	64.19	O
ATOM	7590	N	LYS	1002	16.574	77.142	42.802	1.00	124.17	N

ATOM	7591	CA	LYS	1002	15.784	76.792	43.958	1.00124.17	C
ATOM	7592	CB	LYS	1002	15.928	75.316	44.367	1.00124.17	C
ATOM	7593	CG	LYS	1002	17.330	74.934	44.849	1.00124.17	C
ATOM	7594	CD	LYS	1002	17.367	73.602	45.603	1.00124.17	C
ATOM	7595	CE	LYS	1002	18.775	73.157	46.005	1.00124.17	C
ATOM	7596	NZ	LYS	1002	19.318	74.056	47.048	1.00124.17	N
ATOM	7597	C	LYS	1002	16.121	77.630	45.162	1.00124.17	C
ATOM	7598	O	LYS	1002	15.233	78.087	45.882	1.00124.17	O
ATOM	7599	N	ILE	1003	17.422	77.850	45.425	1.00163.15	N
ATOM	7600	CA	ILE	1003	17.817	78.607	46.583	1.00163.15	C
ATOM	7601	CB	ILE	1003	19.311	78.665	46.774	1.00163.15	C
ATOM	7602	CG1	ILE	1003	19.655	79.276	48.143	1.00163.15	C
ATOM	7603	CG2	ILE	1003	19.934	79.416	45.585	1.00163.15	C
ATOM	7604	CD1	ILE	1003	19.237	78.406	49.328	1.00163.15	C
ATOM	7605	C	ILE	1003	17.306	80.001	46.430	1.00163.15	C
ATOM	7606	O	ILE	1003	16.856	80.617	47.396	1.00163.15	O
ATOM	7607	N	SER	1004	17.376	80.540	45.197	1.00112.44	N
ATOM	7608	CA	SER	1004	16.935	81.887	44.986	1.00112.44	C
ATOM	7609	CB	SER	1004	17.201	82.391	43.559	1.00112.44	C
ATOM	7610	OG	SER	1004	18.599	82.536	43.354	1.00112.44	O
ATOM	7611	C	SER	1004	15.461	81.961	45.244	1.00112.44	C
ATOM	7612	O	SER	1004	14.952	83.004	45.650	1.00112.44	O
ATOM	7613	N	ALA	1005	14.724	80.872	44.954	1.00 69.84	N
ATOM	7614	CA	ALA	1005	13.306	80.819	45.194	1.00 69.84	C
ATOM	7615	CB	ALA	1005	12.641	79.620	44.502	1.00 69.84	C
ATOM	7616	C	ALA	1005	12.976	80.761	46.664	1.00 69.84	C
ATOM	7617	O	ALA	1005	12.001	81.354	47.130	1.00 69.84	O
ATOM	7618	N	ALA	1006	13.790	80.032	47.444	1.00 54.23	N
ATOM	7619	CA	ALA	1006	13.513	79.826	48.842	1.00 54.23	C
ATOM	7620	CB	ALA	1006	14.604	78.986	49.533	1.00 54.23	C
ATOM	7621	C	ALA	1006	13.439	81.147	49.549	1.00 54.23	C
ATOM	7622	O	ALA	1006	12.589	81.343	50.418	1.00 54.23	O
ATOM	7623	N	HIS	1007	14.328	82.095	49.203	1.00 83.79	N
ATOM	7624	CA	HIS	1007	14.317	83.376	49.859	1.00 83.79	C
ATOM	7625	ND1	HIS	1007	17.971	84.555	49.713	1.00 83.79	N
ATOM	7626	CG	HIS	1007	16.763	84.021	50.110	1.00 83.79	C
ATOM	7627	CB	HIS	1007	15.461	84.311	49.432	1.00 83.79	C
ATOM	7628	NE2	HIS	1007	18.386	83.305	51.505	1.00 83.79	N
ATOM	7629	CD2	HIS	1007	17.036	83.260	51.203	1.00 83.79	C
ATOM	7630	CE1	HIS	1007	18.904	84.095	50.581	1.00 83.79	C
ATOM	7631	C	HIS	1007	13.050	84.114	49.555	1.00 83.79	C
ATOM	7632	O	HIS	1007	12.510	84.816	50.407	1.00 83.79	O
ATOM	7633	N	ILE	1008	12.547	84.007	48.316	1.00 67.08	N
ATOM	7634	CA	ILE	1008	11.383	84.764	47.956	1.00 67.08	C
ATOM	7635	CB	ILE	1008	11.063	84.677	46.494	1.00 67.08	C
ATOM	7636	CG1	ILE	1008	12.201	85.345	45.704	1.00 67.08	C
ATOM	7637	CG2	ILE	1008	9.683	85.314	46.254	1.00 67.08	C
ATOM	7638	CD1	ILE	1008	12.167	85.060	44.208	1.00 67.08	C
ATOM	7639	C	ILE	1008	10.186	84.346	48.756	1.00 67.08	C
ATOM	7640	O	ILE	1008	9.415	85.182	49.228	1.00 67.08	O
ATOM	7641	N	ILE	1009	10.016	83.034	48.963	1.00115.59	N
ATOM	7642	CA	ILE	1009	8.861	82.512	49.636	1.00115.59	C
ATOM	7643	CB	ILE	1009	8.935	81.021	49.808	1.00115.59	C
ATOM	7644	CG1	ILE	1009	9.011	80.305	48.449	1.00115.59	C
ATOM	7645	CG2	ILE	1009	7.737	80.589	50.668	1.00115.59	C
ATOM	7646	CD1	ILE	1009	7.779	80.516	47.573	1.00115.59	C
ATOM	7647	C	ILE	1009	8.784	83.083	51.012	1.00115.59	C
ATOM	7648	O	ILE	1009	7.705	83.437	51.484	1.00115.59	O
ATOM	7649	N	MET	1010	9.924	83.178	51.711	1.00137.26	N
ATOM	7650	CA	MET	1010	9.850	83.651	53.058	1.00137.26	C
ATOM	7651	CB	MET	1010	11.205	83.660	53.780	1.00137.26	C
ATOM	7652	CG	MET	1010	11.063	83.998	55.265	1.00137.26	C
ATOM	7653	SD	MET	1010	10.236	82.702	56.236	1.00137.26	S
ATOM	7654	CE	MET	1010	9.976	83.727	57.712	1.00137.26	C
ATOM	7655	C	MET	1010	9.330	85.053	53.064	1.00137.26	C
ATOM	7656	O	MET	1010	8.448	85.382	53.857	1.00137.26	O
ATOM	7657	N	ILE	1011	9.831	85.926	52.169	1.00204.98	N
ATOM	7658	CA	ILE	1011	9.331	87.268	52.250	1.00204.98	C
ATOM	7659	CB	ILE	1011	10.031	88.369	51.480	1.00204.98	C
ATOM	7660	CG1	ILE	1011	10.142	88.109	49.980	1.00204.98	C
ATOM	7661	CG2	ILE	1011	11.386	88.626	52.143	1.00204.98	C
ATOM	7662	CD1	ILE	1011	11.281	87.152	49.667	1.00204.98	C
ATOM	7663	C	ILE	1011	7.879	87.332	51.922	1.00204.98	C
ATOM	7664	O	ILE	1011	7.177	88.196	52.441	1.00204.98	O

ATOM	7665	N	ILE	1012	7.396	86.508	50.979	1.00	63.49	N
ATOM	7666	CA	ILE	1012	5.999	86.581	50.655	1.00	63.49	C
ATOM	7667	CB	ILE	1012	5.662	85.845	49.393	1.00	63.49	C
ATOM	7668	CG1	ILE	1012	6.441	86.444	48.210	1.00	63.49	C
ATOM	7669	CG2	ILE	1012	4.136	85.897	49.210	1.00	63.49	C
ATOM	7670	CD1	ILE	1012	6.383	85.593	46.942	1.00	63.49	C
ATOM	7671	C	ILE	1012	5.124	86.028	51.744	1.00	63.49	C
ATOM	7672	O	ILE	1012	4.169	86.671	52.175	1.00	63.49	O
ATOM	7673	N	GLU	1013	5.449	84.822	52.243	1.00	130.22	N
ATOM	7674	CA	GLU	1013	4.602	84.122	53.169	1.00	130.22	C
ATOM	7675	CB	GLU	1013	4.997	82.644	53.356	1.00	130.22	C
ATOM	7676	CG	GLU	1013	6.454	82.397	53.743	1.00	130.22	C
ATOM	7677	CD	GLU	1013	6.664	80.888	53.769	1.00	130.22	C
ATOM	7678	OE1	GLU	1013	6.107	80.195	52.875	1.00	130.22	O
ATOM	7679	OE2	GLU	1013	7.391	80.411	54.680	1.00	130.22	O
ATOM	7680	C	GLU	1013	4.502	84.812	54.487	1.00	130.22	C
ATOM	7681	O	GLU	1013	3.496	84.661	55.178	1.00	130.22	O
ATOM	7682	N	LYS	1014	5.537	85.573	54.885	1.00	65.53	N
ATOM	7683	CA	LYS	1014	5.509	86.168	56.190	1.00	65.53	C
ATOM	7684	CB	LYS	1014	6.813	86.902	56.557	1.00	65.53	C
ATOM	7685	CG	LYS	1014	6.858	87.380	58.011	1.00	65.53	C
ATOM	7686	CD	LYS	1014	8.250	87.804	58.489	1.00	65.53	C
ATOM	7687	CE	LYS	1014	8.273	88.275	59.945	1.00	65.53	C
ATOM	7688	NZ	LYS	1014	9.661	88.571	60.367	1.00	65.53	N
ATOM	7689	C	LYS	1014	4.373	87.145	56.318	1.00	65.53	C
ATOM	7690	O	LYS	1014	4.183	88.027	55.480	1.00	65.53	O
ATOM	7691	N	THR	1015	3.585	86.997	57.407	1.00	119.66	N
ATOM	7692	CA	THR	1015	2.489	87.883	57.701	1.00	119.66	C
ATOM	7693	CB	THR	1015	1.173	87.169	57.808	1.00	119.66	C
ATOM	7694	OG1	THR	1015	0.101	88.098	57.839	1.00	119.66	O
ATOM	7695	CG2	THR	1015	1.179	86.305	59.074	1.00	119.66	C
ATOM	7696	C	THR	1015	2.825	88.536	59.014	1.00	119.66	C
ATOM	7697	O	THR	1015	3.358	87.885	59.911	1.00	119.66	O
ATOM	7698	N	PRO	1016	2.557	89.813	59.151	1.00	93.02	N
ATOM	7699	CA	PRO	1016	2.971	90.541	60.326	1.00	93.02	C
ATOM	7700	CD	PRO	1016	2.424	90.686	57.997	1.00	93.02	C
ATOM	7701	CB	PRO	1016	3.166	91.991	59.883	1.00	93.02	C
ATOM	7702	CG	PRO	1016	2.352	92.104	58.586	1.00	93.02	C
ATOM	7703	C	PRO	1016	2.075	90.452	61.516	1.00	93.02	C
ATOM	7704	O	PRO	1016	0.914	90.067	61.387	1.00	93.02	O
ATOM	7705	N	LEU	1017	2.621	90.817	62.692	1.00	43.52	N
ATOM	7706	CA	LEU	1017	1.868	90.875	63.908	1.00	43.52	C
ATOM	7707	CB	LEU	1017	2.721	91.239	65.136	1.00	43.52	C
ATOM	7708	CG	LEU	1017	3.772	90.175	65.500	1.00	43.52	C
ATOM	7709	CD1	LEU	1017	4.572	90.587	66.746	1.00	43.52	C
ATOM	7710	CD2	LEU	1017	3.135	88.782	65.634	1.00	43.52	C
ATOM	7711	C	LEU	1017	0.855	91.960	63.737	1.00	43.52	C
ATOM	7712	O	LEU	1017	-0.274	91.844	64.212	1.00	43.52	O
ATOM	7713	N	ILE	1018	1.255	93.064	63.072	1.00	115.66	N
ATOM	7714	CA	ILE	1018	0.356	94.161	62.845	1.00	115.66	C
ATOM	7715	CB	ILE	1018	0.941	95.490	63.241	1.00	115.66	C
ATOM	7716	CG1	ILE	1018	1.340	95.492	64.725	1.00	115.66	C
ATOM	7717	CG2	ILE	1018	-0.076	96.586	62.877	1.00	115.66	C
ATOM	7718	CD1	ILE	1018	0.168	95.282	65.677	1.00	115.66	C
ATOM	7719	C	ILE	1018	0.138	94.236	61.366	1.00	115.66	C
ATOM	7720	O	ILE	1018	1.003	94.706	60.629	1.00	115.66	O
ATOM	7721	N	ASP	1019	-1.046	93.804	60.895	1.00	53.77	N
ATOM	7722	CA	ASP	1019	-1.319	93.799	59.487	1.00	53.77	C
ATOM	7723	CB	ASP	1019	-2.344	92.721	59.097	1.00	53.77	C
ATOM	7724	CG	ASP	1019	-2.392	92.606	57.582	1.00	53.77	C
ATOM	7725	OD1	ASP	1019	-2.587	93.648	56.904	1.00	53.77	O
ATOM	7726	OD2	ASP	1019	-2.224	91.463	57.082	1.00	53.77	O
ATOM	7727	C	ASP	1019	-1.866	95.141	59.112	1.00	53.77	C
ATOM	7728	O	ASP	1019	-3.006	95.477	59.430	1.00	53.77	O
ATOM	7729	N	SER	1020	-1.030	95.953	58.436	1.00	47.20	N
ATOM	7730	CA	SER	1020	-1.402	97.276	58.024	1.00	47.20	C
ATOM	7731	CB	SER	1020	-0.191	98.067	57.516	1.00	47.20	C
ATOM	7732	OG	SER	1020	0.770	98.187	58.554	1.00	47.20	O
ATOM	7733	C	SER	1020	-2.408	97.191	56.917	1.00	47.20	C
ATOM	7734	O	SER	1020	-3.258	98.066	56.769	1.00	47.20	O
ATOM	7735	N	TYR	1021	-2.323	96.128	56.100	1.00	103.93	N
ATOM	7736	CA	TYR	1021	-3.221	95.913	55.001	1.00	103.93	C
ATOM	7737	CB	TYR	1021	-2.791	94.800	54.030	1.00	103.93	C
ATOM	7738	CG	TYR	1021	-1.635	95.324	53.243	1.00	103.93	C

ATOM	7739	CD1	TYR	1021	-1.806	96.395	52.396	1.00103.93	C
ATOM	7740	CD2	TYR	1021	-0.394	94.738	53.323	1.00103.93	C
ATOM	7741	CE1	TYR	1021	-0.758	96.887	51.654	1.00103.93	C
ATOM	7742	CE2	TYR	1021	0.660	95.224	52.583	1.00103.93	C
ATOM	7743	CZ	TYR	1021	0.479	96.300	51.749	1.00103.93	C
ATOM	7744	OH	TYR	1021	1.559	96.798	50.990	1.00103.93	O
ATOM	7745	C	TYR	1021	-4.623	95.634	55.474	1.00103.93	C
ATOM	7746	O	TYR	1021	-5.574	95.892	54.738	1.00103.93	O
ATOM	7747	N	SER	1022	-4.789	95.055	56.684	1.00 64.95	N
ATOM	7748	CA	SER	1022	-6.065	94.611	57.203	1.00 64.95	C
ATOM	7749	CB	SER	1022	-5.963	94.015	58.617	1.00 64.95	C
ATOM	7750	OG	SER	1022	-7.244	93.597	59.063	1.00 64.95	O
ATOM	7751	C	SER	1022	-7.097	95.712	57.242	1.00 64.95	C
ATOM	7752	O	SER	1022	-6.768	96.894	57.290	1.00 64.95	O
ATOM	7753	N	THR	1023	-8.380	95.311	57.051	1.00147.07	N
ATOM	7754	CA	THR	1023	-9.590	96.103	57.064	1.00147.07	C
ATOM	7755	CB	THR	1023	-10.623	95.560	56.118	1.00147.07	C
ATOM	7756	OG1	THR	1023	-11.692	96.484	55.976	1.00147.07	O
ATOM	7757	CG2	THR	1023	-11.146	94.219	56.661	1.00147.07	C
ATOM	7758	C	THR	1023	-10.287	96.306	58.396	1.00147.07	C
ATOM	7759	O	THR	1023	-10.924	97.338	58.600	1.00147.07	O
ATOM	7760	N	GLU	1024	-10.247	95.323	59.321	1.00125.72	N
ATOM	7761	CA	GLU	1024	-11.101	95.383	60.486	1.00125.72	C
ATOM	7762	CB	GLU	1024	-11.429	94.007	61.096	1.00125.72	C
ATOM	7763	CG	GLU	1024	-10.201	93.181	61.472	1.00125.72	C
ATOM	7764	CD	GLU	1024	-9.699	92.495	60.208	1.00125.72	C
ATOM	7765	OE1	GLU	1024	-10.305	92.714	59.124	1.00125.72	O
ATOM	7766	OE2	GLU	1024	-8.701	91.734	60.312	1.00125.72	O
ATOM	7767	C	GLU	1024	-10.573	96.263	61.575	1.00125.72	C
ATOM	7768	O	GLU	1024	-9.385	96.575	61.633	1.00125.72	O
ATOM	7769	N	GLY	1025	-11.498	96.702	62.464	1.00 32.04	N
ATOM	7770	CA	GLY	1025	-11.183	97.537	63.591	1.00 32.04	C
ATOM	7771	C	GLY	1025	-12.429	98.298	63.938	1.00 32.04	C
ATOM	7772	O	GLY	1025	-13.349	98.387	63.127	1.00 32.04	O
ATOM	7773	N	LEU	1026	-12.491	98.873	65.161	1.00 61.34	N
ATOM	7774	CA	LEU	1026	-13.675	99.572	65.589	1.00 61.34	C
ATOM	7775	CB	LEU	1026	-13.596	100.058	67.047	1.00 61.34	C
ATOM	7776	CG	LEU	1026	-13.526	98.929	68.091	1.00 61.34	C
ATOM	7777	CD1	LEU	1026	-13.533	99.501	69.519	1.00 61.34	C
ATOM	7778	CD2	LEU	1026	-14.628	97.883	67.859	1.00 61.34	C
ATOM	7779	C	LEU	1026	-13.917	100.795	64.751	1.00 61.34	C
ATOM	7780	O	LEU	1026	-14.990	100.947	64.171	1.00 61.34	O
ATOM	7781	N	MET	1027	-12.901	101.673	64.620	1.00141.71	N
ATOM	7782	CA	MET	1027	-13.015	102.913	63.890	1.00141.71	C
ATOM	7783	CB	MET	1027	-12.903	102.773	62.357	1.00141.71	C
ATOM	7784	CG	MET	1027	-14.042	102.016	61.679	1.00141.71	C
ATOM	7785	SD	MET	1027	-14.062	102.153	59.865	1.00141.71	S
ATOM	7786	CE	MET	1027	-12.523	101.226	59.600	1.00141.71	C
ATOM	7787	C	MET	1027	-14.274	103.668	64.244	1.00141.71	C
ATOM	7788	O	MET	1027	-15.187	103.784	63.428	1.00141.71	O
ATOM	7789	N	PRO	1028	-14.366	104.177	65.451	1.00 98.57	N
ATOM	7790	CA	PRO	1028	-15.518	104.917	65.916	1.00 98.57	C
ATOM	7791	CD	PRO	1028	-13.502	103.762	66.544	1.00 98.57	C
ATOM	7792	CB	PRO	1028	-15.448	104.876	67.443	1.00 98.57	C
ATOM	7793	CG	PRO	1028	-13.966	104.600	67.746	1.00 98.57	C
ATOM	7794	C	PRO	1028	-15.527	106.324	65.407	1.00 98.57	C
ATOM	7795	O	PRO	1028	-14.533	106.759	64.830	1.00 98.57	O
ATOM	7796	N	ASN	1029	-16.656	107.044	65.581	1.00110.83	N
ATOM	7797	CA	ASN	1029	-16.679	108.422	65.190	1.00110.83	C
ATOM	7798	CB	ASN	1029	-17.964	108.827	64.448	1.00110.83	C
ATOM	7799	CG	ASN	1029	-17.938	108.151	63.083	1.00110.83	C
ATOM	7800	OD1	ASN	1029	-16.875	107.926	62.507	1.00110.83	O
ATOM	7801	ND2	ASN	1029	-19.143	107.818	62.546	1.00110.83	N
ATOM	7802	C	ASN	1029	-16.586	109.240	66.444	1.00110.83	C
ATOM	7803	O	ASN	1029	-17.484	110.020	66.758	1.00110.83	O
ATOM	7804	N	THR	1030	-15.472	109.091	67.191	1.00 63.74	N
ATOM	7805	CA	THR	1030	-15.281	109.866	68.384	1.00 63.74	C
ATOM	7806	CB	THR	1030	-15.097	109.037	69.620	1.00 63.74	C
ATOM	7807	OG1	THR	1030	-16.231	108.206	69.825	1.00 63.74	O
ATOM	7808	CG2	THR	1030	-14.912	109.982	70.818	1.00 63.74	C
ATOM	7809	C	THR	1030	-14.022	110.647	68.172	1.00 63.74	C
ATOM	7810	O	THR	1030	-12.945	110.086	67.990	1.00 63.74	O
ATOM	7811	N	LEU	1031	-14.183	111.979	68.138	1.00147.81	N
ATOM	7812	CA	LEU	1031	-13.223	113.018	67.890	1.00147.81	C

ATOM	7813	CB	LEU	1031	-13.885	114.322	67.416	1.00147.81	C
ATOM	7814	CG	LEU	1031	-14.589	114.190	66.053	1.00147.81	C
ATOM	7815	CD1	LEU	1031	-15.784	113.226	66.126	1.00147.81	C
ATOM	7816	CD2	LEU	1031	-14.959	115.569	65.485	1.00147.81	C
ATOM	7817	C	LEU	1031	-12.315	113.384	69.039	1.00147.81	C
ATOM	7818	O	LEU	1031	-11.354	114.111	68.812	1.00147.81	O
ATOM	7819	N	GLU	1032	-12.604	112.991	70.296	1.00164.51	N
ATOM	7820	CA	GLU	1032	-11.932	113.597	71.427	1.00164.51	C
ATOM	7821	CB	GLU	1032	-12.379	112.966	72.753	1.00164.51	C
ATOM	7822	CG	GLU	1032	-11.834	113.693	73.978	1.00164.51	C
ATOM	7823	CD	GLU	1032	-12.542	115.036	74.080	1.00164.51	C
ATOM	7824	OE1	GLU	1032	-12.485	115.813	73.090	1.00164.51	O
ATOM	7825	OE2	GLU	1032	-13.154	115.301	75.149	1.00164.51	O
ATOM	7826	C	GLU	1032	-10.415	113.578	71.415	1.00164.51	C
ATOM	7827	O	GLU	1032	-9.815	114.636	71.229	1.00164.51	O
ATOM	7828	N	GLY	1033	-9.732	112.411	71.510	1.00 62.61	N
ATOM	7829	CA	GLY	1033	-8.286	112.454	71.542	1.00 62.61	C
ATOM	7830	C	GLY	1033	-7.684	112.284	72.921	1.00 62.61	C
ATOM	7831	O	GLY	1033	-6.641	112.870	73.215	1.00 62.61	O
ATOM	7832	N	ASN	1034	-8.304	111.478	73.810	1.00 51.43	N
ATOM	7833	CA	ASN	1034	-7.729	111.256	75.114	1.00 51.43	C
ATOM	7834	CB	ASN	1034	-8.776	110.899	76.186	1.00 51.43	C
ATOM	7835	CG	ASN	1034	-8.115	110.949	77.557	1.00 51.43	C
ATOM	7836	OD1	ASN	1034	-6.901	111.105	77.674	1.00 51.43	O
ATOM	7837	ND2	ASN	1034	-8.938	110.804	78.630	1.00 51.43	N
ATOM	7838	C	ASN	1034	-6.771	110.101	75.012	1.00 51.43	C
ATOM	7839	O	ASN	1034	-7.172	108.970	74.737	1.00 51.43	O
ATOM	7840	N	VAL	1035	-5.462	110.370	75.229	1.00 62.57	N
ATOM	7841	CA	VAL	1035	-4.443	109.359	75.141	1.00 62.57	C
ATOM	7842	CB	VAL	1035	-3.176	109.863	74.505	1.00 62.57	C
ATOM	7843	CG1	VAL	1035	-2.112	108.753	74.537	1.00 62.57	C
ATOM	7844	CG2	VAL	1035	-3.510	110.353	73.086	1.00 62.57	C
ATOM	7845	C	VAL	1035	-4.109	108.902	76.523	1.00 62.57	C
ATOM	7846	O	VAL	1035	-4.121	109.689	77.467	1.00 62.57	O
ATOM	7847	N	THR	1036	-3.851	107.589	76.687	1.00120.02	N
ATOM	7848	CA	THR	1036	-3.466	107.107	77.978	1.00120.02	C
ATOM	7849	CB	THR	1036	-4.629	106.675	78.827	1.00120.02	C
ATOM	7850	OG1	THR	1036	-4.185	106.346	80.135	1.00120.02	O
ATOM	7851	CG2	THR	1036	-5.319	105.466	78.173	1.00120.02	C
ATOM	7852	C	THR	1036	-2.556	105.934	77.806	1.00120.02	C
ATOM	7853	O	THR	1036	-2.852	104.990	77.073	1.00120.02	O
ATOM	7854	N	PHE	1037	-1.399	105.985	78.489	1.00 76.47	N
ATOM	7855	CA	PHE	1037	-0.476	104.891	78.522	1.00 76.47	C
ATOM	7856	CB	PHE	1037	0.982	105.313	78.255		

ATOM	7887	CB	VAL	1041	6.407	95.969	79.931	1.00111.52	C
ATOM	7888	CG1	VAL	1041	6.265	96.418	81.390	1.00111.52	C
ATOM	7889	CG2	VAL	1041	5.328	94.970	79.512	1.00111.52	C
ATOM	7890	C	VAL	1041	6.625	96.775	77.650	1.00111.52	C
ATOM	7891	O	VAL	1041	5.826	96.133	76.969	1.00111.52	O
ATOM	7892	N	PHE	1042	7.824	97.170	77.184	1.00 90.32	N
ATOM	7893	CA	PHE	1042	8.195	96.906	75.826	1.00 90.32	C
ATOM	7894	CB	PHE	1042	7.887	98.126	74.936	1.00 90.32	C
ATOM	7895	CG	PHE	1042	8.513	97.968	73.600	1.00 90.32	C
ATOM	7896	CD1	PHE	1042	7.922	97.196	72.627	1.00 90.32	C
ATOM	7897	CD2	PHE	1042	9.690	98.624	73.321	1.00 90.32	C
ATOM	7898	CE1	PHE	1042	8.515	97.062	71.396	1.00 90.32	C
ATOM	7899	CE2	PHE	1042	10.287	98.493	72.090	1.00 90.32	C
ATOM	7900	CZ	PHE	1042	9.696	97.711	71.128	1.00 90.32	C
ATOM	7901	C	PHE	1042	9.664	96.630	75.751	1.00 90.32	C
ATOM	7902	O	PHE	1042	10.461	97.199	76.495	1.00 90.32	O
ATOM	7903	N	ASN	1043	10.040	95.714	74.835	1.00 67.13	N
ATOM	7904	CA	ASN	1043	11.404	95.357	74.573	1.00 67.13	C
ATOM	7905	CB	ASN	1043	11.786	93.995	75.183	1.00 67.13	C
ATOM	7906	CG	ASN	1043	11.723	94.111	76.700	1.00 67.13	C
ATOM	7907	OD1	ASN	1043	10.679	94.420	77.273	1.00 67.13	O
ATOM	7908	ND2	ASN	1043	12.881	93.869	77.369	1.00 67.13	N
ATOM	7909	C	ASN	1043	11.496	95.212	73.083	1.00 67.13	C
ATOM	7910	O	ASN	1043	10.649	94.562	72.473	1.00 67.13	O
ATOM	7911	N	TYR	1044	12.521	95.815	72.444	1.00162.13	N
ATOM	7912	CA	TYR	1044	12.636	95.664	71.017	1.00162.13	C
ATOM	7913	CB	TYR	1044	13.761	96.496	70.358	1.00162.13	C
ATOM	7914	CG	TYR	1044	13.302	97.893	70.104	1.00162.13	C
ATOM	7915	CD1	TYR	1044	13.221	98.836	71.098	1.00162.13	C
ATOM	7916	CD2	TYR	1044	12.954	98.263	68.827	1.00162.13	C
ATOM	7917	CE1	TYR	1044	12.802	100.116	70.818	1.00162.13	C
ATOM	7918	CE2	TYR	1044	12.537	99.539	68.543	1.00162.13	C
ATOM	7919	CZ	TYR	1044	12.454	100.473	69.541	1.00162.13	C
ATOM	7920	OH	TYR	1044	12.026	101.786	69.263	1.00162.13	O
ATOM	7921	C	TYR	1044	12.930	94.223	70.709	1.00162.13	C
ATOM	7922	O	TYR	1044	13.810	93.609	71.311	1.00162.13	O
ATOM	7923	N	PRO	1045	12.215	93.650	69.779	1.00109.22	N
ATOM	7924	CA	PRO	1045	12.397	92.277	69.416	1.00109.22	C
ATOM	7925	CD	PRO	1045	11.135	94.294	69.051	1.00109.22	C
ATOM	7926	CB	PRO	1045	11.261	91.952	68.439	1.00109.22	C
ATOM	7927	CG	PRO	1045	10.829	93.325	67.895	1.00109.22	C
ATOM	7928	C	PRO	1045	13.767	92.050	68.855	1.00109.22	C
ATOM	7929	O	PRO	1045	14.227	90.910	68.878	1.00109.22	O
ATOM	7930	N	THR	1046	14.444	93.093	68.337	1.00 43.42	N
ATOM	7931	CA	THR	1046	15.760	92.852	67.824	1.00 43.42	C
ATOM	7932	CB	THR	1046	16.420	94.087	67.287	1.00 43.42	C
ATOM	7933	OG1	THR	1046	15.636	94.630	66.236	1.00 43.42	O
ATOM	7934	CG2	THR	1046	17.826	93.731	66.769	1.00 43.42	C
ATOM	7935	C	THR	1046	16.594	92.336	68.953	1.00 43.42	C
ATOM	7936	O	THR	1046	17.260	91.310	68.816	1.00 43.42	O
ATOM	7937	N	ARG	1047	16.584	93.029	70.109	1.00176.68	N
ATOM	7938	CA	ARG	1047	17.320	92.493	71.217	1.00176.68	C
ATOM	7939	CB	ARG	1047	18.627	93.242	71.536	1.00176.68	C
ATOM	7940	CG	ARG	1047	18.446	94.727	71.844	1.00176.68	C
ATOM	7941	CD	ARG	1047	19.670	95.339	72.524	1.00176.68	C
ATOM	7942	NE	ARG	1047	20.872	94.751	71.871	1.00176.68	N
ATOM	7943	CZ	ARG	1047	22.126	95.144	72.239	1.00176.68	C
ATOM	7944	NH1	ARG	1047	22.297	96.128	73.171	1.00176.68	N
ATOM	7945	NH2	ARG	1047	23.214	94.545	71.676	1.00176.68	N
ATOM	7946	C	ARG	1047	16.442	92.551	72.420	1.00176.68	C
ATOM	7947	O	ARG	1047	16.225	93.602	73.017	1.00176.68	O
ATOM	7948	N	PRO	1048	15.934	91.410	72.780	1.00 75.48	N
ATOM	7949	CA	PRO	1048	15.061	91.282	73.911	1.00 75.48	C
ATOM	7950	CD	PRO	1048	15.823	90.290	71.863	1.00 75.48	C
ATOM	7951	CB	PRO	1048	14.361	89.930	73.752	1.00 75.48	C
ATOM	7952	CG	PRO	1048	15.210	89.170	72.718	1.00 75.48	C
ATOM	7953	C	PRO	1048	15.784	91.432	75.214	1.00 75.48	C
ATOM	7954	O	PRO	1048	15.123	91.575	76.240	1.00 75.48	O
ATOM	7955	N	ASP	1049	17.127	91.361	75.207	1.00 41.28	N
ATOM	7956	CA	ASP	1049	17.903	91.424	76.415	1.00 41.28	C
ATOM	7957	CB	ASP	1049	19.397	91.128	76.179	1.00 41.28	C
ATOM	7958	CG	ASP	1049	19.978	92.167	75.228	1.00 41.28	C
ATOM	7959	OD1	ASP	1049	19.221	92.687	74.365	1.00 41.28	O
ATOM	7960	OD2	ASP	1049	21.200	92.448	75.351	1.00 41.28	O

ATOM	7961	C	ASP	1049	17.793	92.767	77.073	1.00	41.28	C
ATOM	7962	O	ASP	1049	17.676	92.850	78.295	1.00	41.28	O
ATOM	7963	N	ILE	1050	17.817	93.857	76.279	1.00	124.36	N
ATOM	7964	CA	ILE	1050	17.818	95.192	76.819	1.00	124.36	C
ATOM	7965	CB	ILE	1050	18.437	96.180	75.869	1.00	124.36	C
ATOM	7966	CG1	ILE	1050	19.883	95.786	75.521	1.00	124.36	C
ATOM	7967	CG2	ILE	1050	18.298	97.585	76.476	1.00	124.36	C
ATOM	7968	CD1	ILE	1050	20.839	95.778	76.710	1.00	124.36	C
ATOM	7969	C	ILE	1050	16.397	95.652	77.009	1.00	124.36	C
ATOM	7970	O	ILE	1050	15.587	95.498	76.097	1.00	124.36	O
ATOM	7971	N	PRO	1051	16.041	96.147	78.182	1.00	117.03	N
ATOM	7972	CA	PRO	1051	14.714	96.700	78.359	1.00	117.03	C
ATOM	7973	CD	PRO	1051	16.537	95.547	79.409	1.00	117.03	C
ATOM	7974	CB	PRO	1051	14.307	96.393	79.801	1.00	117.03	C
ATOM	7975	CG	PRO	1051	15.639	96.116	80.519	1.00	117.03	C
ATOM	7976	C	PRO	1051	14.663	98.170	78.033	1.00	117.03	C
ATOM	7977	O	PRO	1051	15.619	98.866	78.372	1.00	117.03	O
ATOM	7978	N	VAL	1052	13.634	98.633	77.281	1.00	128.77	N
ATOM	7979	CA	VAL	1052	13.348	100.017	76.987	1.00	128.77	C
ATOM	7980	CB	VAL	1052	12.639	100.133	75.665	1.00	128.77	C
ATOM	7981	CG1	VAL	1052	12.167	101.577	75.483	1.00	128.77	C
ATOM	7982	CG2	VAL	1052	13.560	99.636	74.540	1.00	128.77	C
ATOM	7983	C	VAL	1052	12.439	100.682	77.991	1.00	128.77	C
ATOM	7984	O	VAL	1052	12.762	101.714	78.582	1.00	128.77	O
ATOM	7985	N	LEU	1053	11.247	100.072	78.199	1.00	76.32	N
ATOM	7986	CA	LEU	1053	10.210	100.676	78.991	1.00	76.32	C
ATOM	7987	CB	LEU	1053	8.957	101.071	78.188	1.00	76.32	C
ATOM	7988	CG	LEU	1053	9.178	102.133	77.094	1.00	76.32	C
ATOM	7989	CD1	LEU	1053	7.851	102.467	76.392	1.00	76.32	C
ATOM	7990	CD2	LEU	1053	9.892	103.381	77.637	1.00	76.32	C
ATOM	7991	C	LEU	1053	9.734	99.692	80.001	1.00	76.32	C
ATOM	7992	O	LEU	1053	9.498	98.523	79.688	1.00	76.32	O
ATOM	7993	N	GLN	1054	9.569	100.172	81.251	1.00	75.73	N
ATOM	7994	CA	GLN	1054	9.115	99.325	82.310	1.00	75.73	C
ATOM	7995	CB	GLN	1054	10.252	99.018	83.296	1.00	75.73	C
ATOM	7996	CG	GLN	1054	11.461	98.364	82.624	1.00	75.73	C
ATOM	7997	CD	GLN	1054	12.669	98.568	83.527	1.00	75.73	C
ATOM	7998	OE1	GLN	1054	12.542	99.012	84.666	1.00	75.73	O
ATOM	7999	NE2	GLN	1054	13.880	98.253	82.998	1.00	75.73	N
ATOM	8000	C	GLN	1054	8.086	100.097	83.081	1.00	75.73	C
ATOM	8001	O	GLN	1054	8.417	101.029	83.809	1.00	75.73	O
ATOM	8002	N	GLY	1055	6.799	99.738	82.933	1.00	37.00	N
ATOM	8003	CA	GLY	1055	5.769	100.340	83.734	1.00	37.00	C
ATOM	8004	C	GLY	1055	5.629	101.801	83.435	1.00	37.00	C
ATOM	8005	O	GLY	1055	5.386	102.596	84.343	1.00	37.00	O
ATOM	8006	N	LEU	1056	5.777	102.202	82.159	1.00	64.82	N
ATOM	8007	CA	LEU	1056	5.614	103.590	81.834	1.00	64.82	C
ATOM	8008	CB	LEU	1056	6.256	103.981	80.496	1.00	64.82	C
ATOM	8009	CG	LEU	1056	5.876	105.404	80.056	1.00	64.82	C
ATOM	8010	CD1	LEU	1056	6.351	106.452	81.074	1.00	64.82	C
ATOM	8011	CD2	LEU	1056	6.324	105.680	78.612	1.00	64.82	C
ATOM	8012	C	LEU	1056	4.151	103.884	81.720	1.00	64.82	C
ATOM	8013	O	LEU	1056	3.430	103.236	80.962	1.00	64.82	O
ATOM	8014	N	SER	1057	3.674	104.882	82.489	1.00	90.90	N
ATOM	8015	CA	SER	1057	2.293	105.258	82.438	1.00	90.90	C
ATOM	8016	CB	SER	1057	1.512	104.814	83.685	1.00	90.90	C
ATOM	8017	OG	SER	1057	2.121	105.352	84.849	1.00	90.90	O
ATOM	8018	C	SER	1057	2.222	106.750	82.343	1.00	90.90	C
ATOM	8019	O	SER	1057	2.969	107.468	83.009	1.00	90.90	O
ATOM	8020	N	LEU	1058	1.332	107.257	81.466	1.00	136.97	N
ATOM	8021	CA	LEU	1058	1.176	108.676	81.356	1.00	136.97	C
ATOM	8022	CB	LEU	1058	2.365	109.377	80.671	1.00	136.97	C
ATOM	8023	CG	LEU	1058	2.724	108.834	79.277	1.00	136.97	C
ATOM	8024	CD1	LEU	1058	1.657	109.190	78.230	1.00	136.97	C
ATOM	8025	CD2	LEU	1058	4.136	109.272	78.864	1.00	136.97	C
ATOM	8026	C	LEU	1058	-0.083	108.949	80.598	1.00	136.97	C
ATOM	8027	O	LEU	1058	-0.518	108.142	79.776	1.00	136.97	O
ATOM	8028	N	GLU	1059	-0.714	110.106	80.878	1.00	47.78	N
ATOM	8029	CA	GLU	1059	-1.933	110.451	80.210	1.00	47.78	C
ATOM	8030	CB	GLU	1059	-3.130	110.608	81.163	1.00	47.78	C
ATOM	8031	CG	GLU	1059	-3.567	109.293	81.811	1.00	47.78	C
ATOM	8032	CD	GLU	1059	-4.747	109.587	82.725	1.00	47.78	C
ATOM	8033	OE1	GLU	1059	-5.596	110.437	82.344	1.00	47.78	O
ATOM	8034	OE2	GLU	1059	-4.812	108.969	83.820	1.00	47.78	O

ATOM	8035	C	GLU	1059	-1.731	111.770	79.537	1.00	47.78	C
ATOM	8036	O	GLU	1059	-0.865	112.554	79.923	1.00	47.78	O
ATOM	8037	N	VAL	1060	-2.506	112.010	78.460	1.00	64.26	N
ATOM	8038	CA	VAL	1060	-2.458	113.268	77.778	1.00	64.26	C
ATOM	8039	CB	VAL	1060	-1.828	113.176	76.415	1.00	64.26	C
ATOM	8040	CG1	VAL	1060	-1.829	114.572	75.768	1.00	64.26	C
ATOM	8041	CG2	VAL	1060	-0.430	112.556	76.564	1.00	64.26	C
ATOM	8042	C	VAL	1060	-3.880	113.699	77.589	1.00	64.26	C
ATOM	8043	O	VAL	1060	-4.669	113.019	76.931	1.00	64.26	O
ATOM	8044	N	LYS	1061	-4.236	114.865	78.163	1.00	69.42	N
ATOM	8045	CA	LYS	1061	-5.572	115.374	78.053	1.00	69.42	C
ATOM	8046	CB	LYS	1061	-5.913	116.468	79.081	1.00	69.42	C
ATOM	8047	CG	LYS	1061	-5.995	115.964	80.522	1.00	69.42	C
ATOM	8048	CD	LYS	1061	-6.012	117.093	81.556	1.00	69.42	C
ATOM	8049	CE	LYS	1061	-6.285	116.618	82.984	1.00	69.42	C
ATOM	8050	NZ	LYS	1061	-7.700	116.205	83.114	1.00	69.42	N
ATOM	8051	C	LYS	1061	-5.705	115.982	76.699	1.00	69.42	C
ATOM	8052	O	LYS	1061	-4.716	116.238	76.016	1.00	69.42	O
ATOM	8053	N	LYS	1062	-6.956	116.210	76.264	1.00	120.62	N
ATOM	8054	CA	LYS	1062	-7.148	116.746	74.951	1.00	120.62	C
ATOM	8055	CB	LYS	1062	-8.614	116.769	74.493	1.00	120.62	C
ATOM	8056	CG	LYS	1062	-8.807	117.463	73.142	1.00	120.62	C
ATOM	8057	CD	LYS	1062	-8.189	116.719	71.957	1.00	120.62	C
ATOM	8058	CE	LYS	1062	-8.332	117.468	70.630	1.00	120.62	C
ATOM	8059	NZ	LYS	1062	-9.763	117.677	70.316	1.00	120.62	N
ATOM	8060	C	LYS	1062	-6.652	118.155	74.880	1.00	120.62	C
ATOM	8061	O	LYS	1062	-6.928	118.984	75.744	1.00	120.62	O
ATOM	8062	N	GLY	1063	-5.853	118.437	73.835	1.00	53.36	N
ATOM	8063	CA	GLY	1063	-5.463	119.777	73.502	1.00	53.36	C
ATOM	8064	C	GLY	1063	-4.168	120.186	74.144	1.00	53.36	C
ATOM	8065	O	GLY	1063	-3.474	121.040	73.594	1.00	53.36	O
ATOM	8066	N	GLN	1064	-3.779	119.595	75.296	1.00	192.03	N
ATOM	8067	CA	GLN	1064	-2.579	120.069	75.938	1.00	192.03	C
ATOM	8068	CB	GLN	1064	-2.387	119.736	77.425	1.00	192.03	C
ATOM	8069	CG	GLN	1064	-3.396	120.343	78.382	1.00	192.03	C
ATOM	8070	CD	GLN	1064	-4.275	119.203	78.836	1.00	192.03	C
ATOM	8071	OE1	GLN	1064	-3.782	118.184	79.318	1.00	192.03	O
ATOM	8072	NE2	GLN	1064	-5.613	119.375	78.676	1.00	192.03	N
ATOM	8073	C	GLN	1064	-1.383	119.445	75.317	1.00	192.03	C
ATOM	8074	O	GLN	1064	-1.478	118.665	74.370	1.00	192.03	O
ATOM	8075	N	THR	1065	-0.202	119.818	75.855	1.00	137.70	N
ATOM	8076	CA	THR	1065	1.007	119.244	75.359	1.00	137.70	C
ATOM	8077	CB	THR	1065	2.007	120.238	74.842	1.00	137.70	C
ATOM	8078	OG1	THR	1065	2.885	119.607	73.923	1.00	137.70	O
ATOM	8079	CG2	THR	1065	2.826	120.775	76.024	1.00	137.70	C
ATOM	8080	C	THR	1065	1.635	118.483	76.483	1.00	137.70	C
ATOM	8081	O	THR	1065	1.548	118.869	77.649	1.00	137.70	O
ATOM	8082	N	LEU	1066	2.244	117.335	76.131	1.00	139.48	N
ATOM	8083	CA	LEU	1066	2.947	116.481	77.042	1.00	139.48	C
ATOM	8084	CB	LEU	1066	2.366	115.049	77.021	1.00	139.48	C
ATOM	8085	CG	LEU	1066	2.938	114.038	78.039	1.00	139.48	C
ATOM	8086	CD1	LEU	1066	4.434	113.791	77.841	1.00	139.48	C
ATOM	8087	CD2	LEU	1066	2.582	114.414	79.479	1.00	139.48	C
ATOM	8088	C	LEU	1066	4.351	116.416	76.509	1.00	139.48	C
ATOM	8089	O	LEU	1066	4.551	116.255	75.305	1.00	139.48	O
ATOM	8090	N	ALA	1067	5.366	116.554	77.388	1.00	44.64	N
ATOM	8091	CA	ALA	1067	6.731	116.504	76.934	1.00	44.64	C
ATOM	8092	CB	ALA	1067	7.542	117.760	77.297	1.00	44.64	C
ATOM	8093	C	ALA	1067	7.407	115.337	77.591	1.00	44.64	C
ATOM	8094	O	ALA	1067	7.191	115.062	78.769	1.00	44.64	O
ATOM	8095	N	LEU	1068	8.248	114.612	76.823	1.00	69.03	N
ATOM	8096	CA	LEU	1068	8.948	113.457	77.314	1.00	69.03	C
ATOM	8097	CB	LEU	1068	8.736	112.226	76.413	1.00	69.03	C
ATOM	8098	CG	LEU	1068	7.253	111.856	76.200	1.00	69.03	C
ATOM	8099	CD1	LEU	1068	7.112	110.622	75.292	1.00	69.03	C
ATOM	8100	CD2	LEU	1068	6.504	111.705	77.534	1.00	69.03	C
ATOM	8101	C	LEU	1068	10.412	113.781	77.266	1.00	69.03	C
ATOM	8102	O	LEU	1068	10.908	114.294	76.265	1.00	69.03	O
ATOM	8103	N	VAL	1069	11.148	113.485	78.355	1.00	132.88	N
ATOM	8104	CA	VAL	1069	12.546	113.807	78.388	1.00	132.88	C
ATOM	8105	CB	VAL	1069	12.757	115.181	78.955	1.00	132.88	C
ATOM	8106	CG1	VAL	1069	12.062	115.254	80.320	1.00	132.88	C
ATOM	8107	CG2	VAL	1069	14.252	115.505	78.999	1.00	132.88	C
ATOM	8108	C	VAL	1069	13.259	112.764	79.208	1.00	132.88	C

ATOM	8109	O	VAL	1069	12.632	111.969	79.910	1.00132.88	O
ATOM	8110	N	GLY	1070	14.605	112.704	79.098	1.00 36.90	N
ATOM	8111	CA	GLY	1070	15.345	111.746	79.871	1.00 36.90	C
ATOM	8112	C	GLY	1070	16.730	111.613	79.312	1.00 36.90	C
ATOM	8113	O	GLY	1070	17.119	112.313	78.379	1.00 36.90	O
ATOM	8114	N	SER	1071	17.511	110.687	79.904	1.00 48.33	N
ATOM	8115	CA	SER	1071	18.857	110.391	79.511	1.00 48.33	C
ATOM	8116	CB	SER	1071	19.690	109.750	80.634	1.00 48.33	C
ATOM	8117	OG	SER	1071	19.113	108.512	81.022	1.00 48.33	O
ATOM	8118	C	SER	1071	18.803	109.431	78.376	1.00 48.33	C
ATOM	8119	O	SER	1071	17.735	109.142	77.841	1.00 48.33	O
ATOM	8120	N	SER	1072	19.982	108.939	77.955	1.00 70.99	N
ATOM	8121	CA	SER	1072	20.039	108.020	76.860	1.00 70.99	C
ATOM	8122	CB	SER	1072	21.474	107.704	76.410	1.00 70.99	C
ATOM	8123	OG	SER	1072	22.188	107.084	77.470	1.00 70.99	O
ATOM	8124	C	SER	1072	19.417	106.729	77.283	1.00 70.99	C
ATOM	8125	O	SER	1072	19.555	106.298	78.428	1.00 70.99	O
ATOM	8126	N	GLY	1073	18.700	106.085	76.340	1.00 30.05	N
ATOM	8127	CA	GLY	1073	18.095	104.807	76.584	1.00 30.05	C
ATOM	8128	C	GLY	1073	16.886	104.962	77.457	1.00 30.05	C
ATOM	8129	O	GLY	1073	16.448	104.002	78.091	1.00 30.05	O
ATOM	8130	N	CYS	1074	16.337	106.186	77.549	1.00 64.86	N
ATOM	8131	CA	CYS	1074	15.180	106.417	78.380	1.00 64.86	C
ATOM	8132	CB	CYS	1074	14.892	107.915	78.579	1.00 64.86	C
ATOM	8133	SG	CYS	1074	14.645	108.793	77.007	1.00 64.86	S
ATOM	8134	C	CYS	1074	13.947	105.773	77.813	1.00 64.86	C
ATOM	8135	O	CYS	1074	13.192	105.138	78.557	1.00 64.86	O
ATOM	8136	N	GLY	1075	13.737	105.880	76.474	1.00 60.00	N
ATOM	8137	CA	GLY	1075	12.553	105.316	75.885	1.00 60.00	C
ATOM	8138	C	GLY	1075	11.541	106.361	75.478	1.00 60.00	C
ATOM	8139	O	GLY	1075	10.360	106.038	75.362	1.00 60.00	O
ATOM	8140	N	LYS	1076	11.940	107.640	75.287	1.00192.89	N
ATOM	8141	CA	LYS	1076	10.986	108.644	74.898	1.00192.89	C
ATOM	8142	CB	LYS	1076	11.435	110.090	75.196	1.00192.89	C
ATOM	8143	CG	LYS	1076	12.904	110.424	74.939	1.00192.89	C
ATOM	8144	CD	LYS	1076	13.286	110.719	73.493	1.00192.89	C
ATOM	8145	CE	LYS	1076	14.658	111.386	73.412	1.00192.89	C
ATOM	8146	NZ	LYS	1076	14.689	112.559	74.318	1.00192.89	N
ATOM	8147	C	LYS	1076	10.519	108.487	73.480	1.00192.89	C
ATOM	8148	O	LYS	1076	9.340	108.689	73.196	1.00192.89	O
ATOM	8149	N	SER	1077	11.415	108.111	72.547	1.00 59.45	N
ATOM	8150	CA	SER	1077	11.046	107.994	71.162	1.00 59.45	C
ATOM	8151	CB	SER	1077	12.258	107.792	70.232	1.00 59.45	C
ATOM	8152	OG	SER	1077	13.065	108.962	70.219	1.00 59.45	O
ATOM	8153	C	SER	1077	10.103	106.842	70.965	1.00 59.45	C
ATOM	8154	O	SER	1077	9.368	106.808	69.978	1.00 59.45	O
ATOM	8155	N	THR	1078	10.091	105.871	71.899	1.00 68.29	N
ATOM	8156	CA	THR	1078	9.277	104.690	71.786	1.00 68.29	C
ATOM	8157	CB	THR	1078	9.551	103.673	72.859	1.00 68.29	C
ATOM	8158	OG1	THR	1078	10.928	103.326	72.859	1.00 68.29	O
ATOM	8159	CG2	THR	1078	8.715	102.417	72.557	1.00 68.29	C
ATOM	8160	C	THR	1078	7.820	105.051	71.842	1.00 68.29	C
ATOM	8161	O	THR	1078	6.991	104.386	71.224	1.00 68.29	O
ATOM	8162	N	VAL	1079	7.459	106.106	72.596	1.00 46.00	N
ATOM	8163	CA	VAL	1079	6.077	106.473	72.756	1.00 46.00	C
ATOM	8164	CB	VAL	1079	5.889	107.678	73.635	1.00 46.00	C
ATOM	8165	CG1	VAL	1079	4.402	108.071	73.623	1.00 46.00	C
ATOM	8166	CG2	VAL	1079	6.424	107.346	75.039	1.00 46.00	C
ATOM	8167	C	VAL	1079	5.467	106.786	71.422	1.00 46.00	C
ATOM	8168	O	VAL	1079	4.341	106.375	71.144	1.00 46.00	O
ATOM	8169	N	VAL	1080	6.191	107.520	70.555	1.00 40.97	N
ATOM	8170	CA	VAL	1080	5.655	107.887	69.272	1.00 40.97	C
ATOM	8171	CB	VAL	1080	6.594	108.757	68.482	1.00 40.97	C
ATOM	8172	CG1	VAL	1080	6.019	108.961	67.070	1.00 40.97	C
ATOM	8173	CG2	VAL	1080	6.799	110.072	69.253	1.00 40.97	C
ATOM	8174	C	VAL	1080	5.388	106.646	68.475	1.00 40.97	C
ATOM	8175	O	VAL	1080	4.357	106.531	67.815	1.00 40.97	O
ATOM	8176	N	GLN	1081	6.323	105.681	68.512	1.00 70.36	N
ATOM	8177	CA	GLN	1081	6.200	104.476	67.745	1.00 70.36	C
ATOM	8178	CB	GLN	1081	7.496	103.658	67.729	1.00 70.36	C
ATOM	8179	CG	GLN	1081	8.573	104.341	66.886	1.00 70.36	C
ATOM	8180	CD	GLN	1081	9.846	103.525	66.982	1.00 70.36	C
ATOM	8181	OE1	GLN	1081	10.456	103.433	68.045	1.00 70.36	O
ATOM	8182	NE2	GLN	1081	10.263	102.915	65.840	1.00 70.36	N

ATOM	8183	C	GLN	1081	5.078	103.607	68.236	1.00	70.36	C
ATOM	8184	O	GLN	1081	4.414	102.943	67.441	1.00	70.36	O
ATOM	8185	N	LEU	1082	4.871	103.546	69.564	1.00	55.15	N
ATOM	8186	CA	LEU	1082	3.845	102.727	70.154	1.00	55.15	C
ATOM	8187	CB	LEU	1082	3.949	102.690	71.687	1.00	55.15	C
ATOM	8188	CG	LEU	1082	5.259	102.064	72.204	1.00	55.15	C
ATOM	8189	CD1	LEU	1082	5.303	102.056	73.740	1.00	55.15	C
ATOM	8190	CD2	LEU	1082	5.498	100.672	71.596	1.00	55.15	C
ATOM	8191	C	LEU	1082	2.480	103.250	69.806	1.00	55.15	C
ATOM	8192	O	LEU	1082	1.550	102.476	69.579	1.00	55.15	O
ATOM	8193	N	LEU	1083	2.307	104.585	69.812	1.00	131.92	N
ATOM	8194	CA	LEU	1083	1.036	105.187	69.509	1.00	131.92	C
ATOM	8195	CB	LEU	1083	1.072	106.718	69.688	1.00	131.92	C
ATOM	8196	CG	LEU	1083	-0.301	107.406	69.838	1.00	131.92	C
ATOM	8197	CD1	LEU	1083	-1.311	106.950	68.781	1.00	131.92	C
ATOM	8198	CD2	LEU	1083	-0.827	107.308	71.274	1.00	131.92	C
ATOM	8199	C	LEU	1083	0.763	104.927	68.051	1.00	131.92	C
ATOM	8200	O	LEU	1083	-0.364	104.642	67.650	1.00	131.92	O
ATOM	8201	N	GLU	1084	1.816	105.043	67.218	1.00	116.67	N
ATOM	8202	CA	GLU	1084	1.779	104.793	65.801	1.00	116.67	C
ATOM	8203	CB	GLU	1084	3.073	105.189	65.069	1.00	116.67	C
ATOM	8204	CG	GLU	1084	3.268	106.703	64.935	1.00	116.67	C
ATOM	8205	CD	GLU	1084	2.380	107.216	63.806	1.00	116.67	C
ATOM	8206	OE1	GLU	1084	1.651	106.392	63.192	1.00	116.67	O
ATOM	8207	OE2	GLU	1084	2.426	108.448	63.542	1.00	116.67	O
ATOM	8208	C	GLU	1084	1.546	103.325	65.599	1.00	116.67	C
ATOM	8209	O	GLU	1084	1.135	102.894	64.523	1.00	116.67	O
ATOM	8210	N	ARG	1085	1.840	102.518	66.635	1.00	122.50	N
ATOM	8211	CA	ARG	1085	1.642	101.097	66.604	1.00	122.50	C
ATOM	8212	CB	ARG	1085	0.204	100.701	66.215	1.00	122.50	C
ATOM	8213	CG	ARG	1085	-0.145	99.264	66.604	1.00	122.50	C
ATOM	8214	CD	ARG	1085	-1.570	98.842	66.245	1.00	122.50	C
ATOM	8215	NE	ARG	1085	-1.761	97.464	66.778	1.00	122.50	N
ATOM	8216	CZ	ARG	1085	-2.962	96.833	66.639	1.00	122.50	C
ATOM	8217	NH1	ARG	1085	-3.973	97.435	65.947	1.00	122.50	N
ATOM	8218	NH2	ARG	1085	-3.153	95.604	67.203	1.00	122.50	N
ATOM	8219	C	ARG	1085	2.601	100.441	65.661	1.00	122.50	C
ATOM	8220	O	ARG	1085	2.248	99.521	64.923	1.00	122.50	O
ATOM	8221	N	PHE	1086	3.855	100.923	65.656	1.00	90.73	N
ATOM	8222	CA	PHE	1086	4.898	100.279	64.921	1.00	90.73	C
ATOM	8223	CB	PHE	1086	6.213	101.077	64.878	1.00	90.73	C
ATOM	8224	CG	PHE	1086	5.948	102.378	64.193	1.00	90.73	C
ATOM	8225	CD1	PHE	1086	5.415	102.413	62.924	1.00	90.73	C
ATOM	8226	CD2	PHE	1086	6.274	103.568	64.804	1.00	90.73	C
ATOM	8227	CE1	PHE	1086	5.182	103.613	62.291	1.00	90.73	C
ATOM	8228	CE2	PHE	1086	6.046	104.772	64.176	1.00	90.73	C
ATOM	8229	CZ	PHE	1086	5.496	104.796	62.917	1.00	90.73	C
ATOM	8230	C	PHE	1086	5.163	98.971	65.620	1.00	90.73	C
ATOM	8231	O	PHE	1086	5.512	97.978	64.982	1.00	90.73	O
ATOM	8232	N	TYR	1087	5.040	98.952	66.969	1.00	97.53	N
ATOM	8233	CA	TYR	1087	5.286	97.757	67.739	1.00	97.53	C
ATOM	8234	CB	TYR	1087	6.524	97.856	68.651	1.00	97.53	C
ATOM	8235	CG	TYR	1087	7.733	98.326	67.911	1.00	97.53	C
ATOM	8236	CD1	TYR	1087	8.587	97.458	67.269	1.00	97.53	C
ATOM	8237	CD2	TYR	1087	8.015	99.673	67.882	1.00	97.53	C
ATOM	8238	CE1	TYR	1087	9.700	97.932	66.611	1.00	97.53	C
ATOM	8239	CE2	TYR	1087	9.122	100.152	67.227	1.00	97.53	C
ATOM	8240	CZ	TYR	1087	9.968	99.281	66.587	1.00	97.53	C
ATOM	8241	OH	TYR	1087	11.107	99.771	65.914	1.00	97.53	O
ATOM	8242	C	TYR	1087	4.164	97.622	68.741	1.00	97.53	C
ATOM	8243	O	TYR	1087	3.459	98.590	69.024	1.00	97.53	O
ATOM	8244	N	ASP	1088	3.963	96.398	69.293	1.00	68.83	N
ATOM	8245	CA	ASP	1088	3.008	96.177	70.356	1.00	68.83	C
ATOM	8246	CB	ASP	1088	2.105	94.936	70.183	1.00	68.83	C
ATOM	8247	CG	ASP	1088	0.957	95.261	69.232	1.00	68.83	C
ATOM	8248	OD1	ASP	1088	0.710	96.468	68.975	1.00	68.83	O
ATOM	8249	OD2	ASP	1088	0.299	94.298	68.757	1.00	68.83	O
ATOM	8250	C	ASP	1088	3.775	95.991	71.636	1.00	68.83	C
ATOM	8251	O	ASP	1088	4.908	95.512	71.622	1.00	68.83	O
ATOM	8252	N	PRO	1089	3.217	96.402	72.748	1.00	77.94	N
ATOM	8253	CA	PRO	1089	3.894	96.233	74.011	1.00	77.94	C
ATOM	8254	CD	PRO	1089	2.326	97.549	72.761	1.00	77.94	C
ATOM	8255	CB	PRO	1089	3.349	97.319	74.940	1.00	77.94	C
ATOM	8256	CG	PRO	1089	2.063	97.808	74.252	1.00	77.94	C

ATOM	8257	C	PRO	1089	3.733	94.841	74.536	1.00	77.94	C
ATOM	8258	O	PRO	1089	2.731	94.195	74.233	1.00	77.94	O
ATOM	8259	N	LEU	1090	4.713	94.357	75.324	1.00	120.88	N
ATOM	8260	CA	LEU	1090	4.642	93.030	75.864	1.00	120.88	C
ATOM	8261	CB	LEU	1090	5.921	92.632	76.617	1.00	120.88	C
ATOM	8262	CG	LEU	1090	5.869	91.213	77.207	1.00	120.88	C
ATOM	8263	CD1	LEU	1090	5.746	90.152	76.100	1.00	120.88	C
ATOM	8264	CD2	LEU	1090	7.061	90.960	78.142	1.00	120.88	C
ATOM	8265	C	LEU	1090	3.507	92.962	76.832	1.00	120.88	C
ATOM	8266	O	LEU	1090	2.704	92.031	76.806	1.00	120.88	O
ATOM	8267	N	ALA	1091	3.403	93.975	77.713	1.00	33.31	N
ATOM	8268	CA	ALA	1091	2.371	94.002	78.702	1.00	33.31	C
ATOM	8269	CB	ALA	1091	2.814	93.523	80.095	1.00	33.31	C
ATOM	8270	C	ALA	1091	1.947	95.426	78.830	1.00	33.31	C
ATOM	8271	O	ALA	1091	2.587	96.323	78.284	1.00	33.31	O
ATOM	8272	N	GLY	1092	0.831	95.664	79.540	1.00	16.73	N
ATOM	8273	CA	GLY	1092	0.350	97.002	79.680	1.00	16.73	C
ATOM	8274	C	GLY	1092	-0.566	97.257	78.530	1.00	16.73	C
ATOM	8275	O	GLY	1092	-0.819	96.370	77.716	1.00	16.73	O
ATOM	8276	N	LYS	1093	-1.099	98.492	78.442	1.00	72.13	N
ATOM	8277	CA	LYS	1093	-2.026	98.786	77.392	1.00	72.13	C
ATOM	8278	CB	LYS	1093	-3.485	98.596	77.833	1.00	72.13	C
ATOM	8279	CG	LYS	1093	-3.825	97.159	78.230	1.00	72.13	C
ATOM	8280	CD	LYS	1093	-5.103	97.053	79.063	1.00	72.13	C
ATOM	8281	CE	LYS	1093	-4.933	97.579	80.491	1.00	72.13	C
ATOM	8282	NZ	LYS	1093	-6.203	97.447	81.239	1.00	72.13	N
ATOM	8283	C	LYS	1093	-1.896	100.231	77.017	1.00	72.13	C
ATOM	8284	O	LYS	1093	-1.471	101.062	77.819	1.00	72.13	O
ATOM	8285	N	VAL	1094	-2.246	100.549	75.753	1.00	54.76	N
ATOM	8286	CA	VAL	1094	-2.293	101.905	75.281	1.00	54.76	C
ATOM	8287	CB	VAL	1094	-1.436	102.165	74.072	1.00	54.76	C
ATOM	8288	CG1	VAL	1094	-1.730	103.585	73.553	1.00	54.76	C
ATOM	8289	CG2	VAL	1094	0.035	101.945	74.458	1.00	54.76	C
ATOM	8290	C	VAL	1094	-3.709	102.127	74.860	1.00	54.76	C
ATOM	8291	O	VAL	1094	-4.269	101.330	74.105	1.00	54.76	O
ATOM	8292	N	LEU	1095	-4.331	103.221	75.342	1.00	93.13	N
ATOM	8293	CA	LEU	1095	-5.709	103.448	75.020	1.00	93.13	C
ATOM	8294	CB	LEU	1095	-6.627	103.491	76.255	1.00	93.13	C
ATOM	8295	CG	LEU	1095	-6.737	102.143	76.993	1.00	93.13	C
ATOM	8296	CD1	LEU	1095	-7.425	101.082	76.119	1.00	93.13	C
ATOM	8297	CD2	LEU	1095	-5.372	101.682	77.530	1.00	93.13	C
ATOM	8298	C	LEU	1095	-5.850	104.760	74.318	1.00	93.13	C
ATOM	8299	O	LEU	1095	-5.112	105.707	74.585	1.00	93.13	O
ATOM	8300	N	LEU	1096	-6.786	104.806	73.346	1.00	134.20	N
ATOM	8301	CA	LEU	1096	-7.156	106.007	72.655	1.00	134.20	C
ATOM	8302	CB	LEU	1096	-6.965	105.982	71.126	1.00	134.20	C
ATOM	8303	CG	LEU	1096	-5.541	106.277	70.630	1.00	134.20	C
ATOM	8304	CD1	LEU	1096	-4.526	105.265	71.170	1.00	134.20	C
ATOM	8305	CD2	LEU	1096	-5.511	106.385	69.097	1.00	134.20	C
ATOM	8306	C	LEU	1096	-8.620	106.196	72.871	1.00	134.20	C
ATOM	8307	O	LEU	1096	-9.433	105.372	72.449	1.00	134.20	O
ATOM	8308	N	ASP	1097	-8.989	107.320	73.512	1.00	62.18	N
ATOM	8309	CA	ASP	1097	-10.367	107.605	73.786	1.00	62.18	C
ATOM	8310	CB	ASP	1097	-11.217	107.796	72.515	1.00	62.18	C
ATOM	8311	CG	ASP	1097	-10.835	109.123	71.872	1.00	62.18	C
ATOM	8312	OD1	ASP	1097	-10.300	110.004	72.597	1.00	62.18	O
ATOM	8313	OD2	ASP	1097	-11.077	109.274	70.645	1.00	62.18	O
ATOM	8314	C	ASP	1097	-10.954	106.486	74.586	1.00	62.18	C
ATOM	8315	O	ASP	1097	-12.119	106.129	74.415	1.00	62.18	O
ATOM	8316	N	GLY	1098	-10.150	105.893	75.488	1.00	24.60	N
ATOM	8317	CA	GLY	1098	-10.659	104.884	76.369	1.00	24.60	C
ATOM	8318	C	GLY	1098	-10.784	103.577	75.647	1.00	24.60	C
ATOM	8319	O	GLY	1098	-11.315	102.618	76.204	1.00	24.60	O
ATOM	8320	N	LYS	1099	-10.306	103.494	74.388	1.00	105.23	N
ATOM	8321	CA	LYS	1099	-10.405	102.246	73.681	1.00	105.23	C
ATOM	8322	CB	LYS	1099	-11.043	102.336	72.279	1.00	105.23	C
ATOM	8323	CG	LYS	1099	-12.545	102.639	72.224	1.00	105.23	C
ATOM	8324	CD	LYS	1099	-12.915	104.110	72.411	1.00	105.23	C
ATOM	8325	CE	LYS	1099	-14.400	104.401	72.181	1.00	105.23	C
ATOM	8326	NZ	LYS	1099	-14.713	104.333	70.736	1.00	105.23	N
ATOM	8327	C	LYS	1099	-9.020	101.739	73.444	1.00	105.23	C
ATOM	8328	O	LYS	1099	-8.123	102.492	73.070	1.00	105.23	O
ATOM	8329	N	GLU	1100	-8.817	100.425	73.647	1.00	40.92	N
ATOM	8330	CA	GLU	1100	-7.523	99.854	73.431	1.00	40.92	C

ATOM	8331	CB	GLU	1100	-7.429	98.395	73.905	1.00	40.92	C
ATOM	8332	CG	GLU	1100	-6.009	97.832	73.921	1.00	40.92	C
ATOM	8333	CD	GLU	1100	-6.074	96.464	74.583	1.00	40.92	C
ATOM	8334	OE1	GLU	1100	-7.190	96.071	75.018	1.00	40.92	O
ATOM	8335	OE2	GLU	1100	-5.010	95.794	74.667	1.00	40.92	O
ATOM	8336	C	GLU	1100	-7.258	99.907	71.957	1.00	40.92	C
ATOM	8337	O	GLU	1100	-8.126	99.614	71.136	1.00	40.92	O
ATOM	8338	N	ILE	1101	-6.021	100.287	71.603	1.00	160.51	N
ATOM	8339	CA	ILE	1101	-5.559	100.465	70.255	1.00	160.51	C
ATOM	8340	CB	ILE	1101	-4.203	101.112	70.221	1.00	160.51	C
ATOM	8341	CG1	ILE	1101	-3.704	101.327	68.790	1.00	160.51	C
ATOM	8342	CG2	ILE	1101	-3.258	100.302	71.105	1.00	160.51	C
ATOM	8343	CD1	ILE	1101	-2.446	102.193	68.742	1.00	160.51	C
ATOM	8344	C	ILE	1101	-5.557	99.161	69.510	1.00	160.51	C
ATOM	8345	O	ILE	1101	-5.726	99.137	68.292	1.00	160.51	O
ATOM	8346	N	LYS	1102	-5.328	98.037	70.210	1.00	84.31	N
ATOM	8347	CA	LYS	1102	-5.266	96.759	69.557	1.00	84.31	C
ATOM	8348	CB	LYS	1102	-4.924	95.612	70.521	1.00	84.31	C
ATOM	8349	CG	LYS	1102	-3.489	95.714	71.044	1.00	84.31	C
ATOM	8350	CD	LYS	1102	-3.175	94.778	72.211	1.00	84.31	C
ATOM	8351	CE	LYS	1102	-2.627	93.419	71.774	1.00	84.31	C
ATOM	8352	NZ	LYS	1102	-2.338	92.586	72.962	1.00	84.31	N
ATOM	8353	C	LYS	1102	-6.573	96.463	68.877	1.00	84.31	C
ATOM	8354	O	LYS	1102	-6.596	95.747	67.878	1.00	84.31	O
ATOM	8355	N	ARG	1103	-7.699	96.938	69.444	1.00	156.67	N
ATOM	8356	CA	ARG	1103	-9.008	96.775	68.862	1.00	156.67	C
ATOM	8357	CB	ARG	1103	-10.144	97.119	69.842	1.00	156.67	C
ATOM	8358	CG	ARG	1103	-10.579	95.943	70.722	1.00	156.67	C
ATOM	8359	CD	ARG	1103	-9.434	95.242	71.455	1.00	156.67	C
ATOM	8360	NE	ARG	1103	-8.722	94.405	70.447	1.00	156.67	N
ATOM	8361	CZ	ARG	1103	-8.448	93.095	70.707	1.00	156.67	C
ATOM	8362	NH1	ARG	1103	-8.778	92.555	71.917	1.00	156.67	N
ATOM	8363	NH2	ARG	1103	-7.850	92.321	69.754	1.00	156.67	N
ATOM	8364	C	ARG	1103	-9.185	97.618	67.633	1.00	156.67	C
ATOM	8365	O	ARG	1103	-9.903	97.233	66.712	1.00	156.67	O
ATOM	8366	N	LEU	1104	-8.552	98.805	67.593	1.00	67.14	N
ATOM	8367	CA	LEU	1104	-8.738	99.753	66.524	1.00	67.14	C
ATOM	8368	CB	LEU	1104	-8.099	101.118	66.832	1.00	67.14	C
ATOM	8369	CG	LEU	1104	-8.666	101.826	68.077	1.00	67.14	C
ATOM	8370	CD1	LEU	1104	-7.971	103.178	68.308	1.00	67.14	C
ATOM	8371	CD2	LEU	1104	-10.196	101.958	68.000	1.00	67.14	C
ATOM	8372	C	LEU	1104	-8.098	99.279	65.252	1.00	67.14	C
ATOM	8373	O	LEU	1104	-7.218	98.419	65.243	1.00	67.14	O
ATOM	8374	N	ASN	1105	-8.577	99.833	64.118	1.00	50.08	N
ATOM	8375	CA	ASN	1105	-7.991	99.543	62.838	1.00	50.08	C
ATOM	8376	CB	ASN	1105	-8.851	100.055	61.669	1.00	50.08	C
ATOM	8377	CG	ASN	1105	-8.205	99.642	60.357	1.00	50.08	C
ATOM	8378	OD1	ASN	1105	-7.067	100.004	60.066	1.00	50.08	O
ATOM	8379	ND2	ASN	1105	-8.952	98.859	59.537	1.00	50.08	N
ATOM	8380	C	ASN	1105	-6.676	100.268	62.807	1.00	50.08	C
ATOM	8381	O	ASN	1105	-6.587	101.419	63.229	1.00	50.08	O
ATOM	8382	N	VAL	1106	-5.611	99.607	62.308	1.00	124.09	N
ATOM	8383	CA	VAL	1106	-4.298	100.198	62.302	1.00	124.09	C
ATOM	8384	CB	VAL	1106	-3.209	99.269	61.843	1.00	124.09	C
ATOM	8385	CG1	VAL	1106	-2.914	98.248	62.946	1.00	124.09	C
ATOM	8386	CG2	VAL	1106	-3.665	98.601	60.540	1.00	124.09	C
ATOM	8387	C	VAL	1106	-4.238	101.414	61.435	1.00	124.09	C
ATOM	8388	O	VAL	1106	-3.646	102.422	61.816	1.00	124.09	O
ATOM	8389	N	GLN	1107	-4.826	101.356	60.230	1.00	62.22	N
ATOM	8390	CA	GLN	1107	-4.744	102.486	59.355	1.00	62.22	C
ATOM	8391	CB	GLN	1107	-5.259	102.208	57.934	1.00	62.22	C
ATOM	8392	CG	GLN	1107	-4.328	101.287	57.143	1.00	62.22	C
ATOM	8393	CD	GLN	1107	-2.986	101.999	57.018	1.00	62.22	C
ATOM	8394	OE1	GLN	1107	-2.909	103.152	56.598	1.00	62.22	O
ATOM	8395	NE2	GLN	1107	-1.896	101.294	57.419	1.00	62.22	N
ATOM	8396	C	GLN	1107	-5.507	103.638	59.938	1.00	62.22	C
ATOM	8397	O	GLN	1107	-5.078	104.785	59.835	1.00	62.22	O
ATOM	8398	N	TRP	1108	-6.667	103.361	60.563	1.00	71.37	N
ATOM	8399	CA	TRP	1108	-7.495	104.387	61.127	1.00	71.37	C
ATOM	8400	CB	TRP	1108	-8.826	103.823	61.656	1.00	71.37	C
ATOM	8401	CG	TRP	1108	-9.803	104.863	62.144	1.00	71.37	C
ATOM	8402	CD2	TRP	1108	-9.969	105.240	63.519	1.00	71.37	C
ATOM	8403	CD1	TRP	1108	-10.700	105.603	61.429	1.00	71.37	C
ATOM	8404	NE1	TRP	1108	-11.415	106.418	62.273	1.00	71.37	N

ATOM	8405	CE2	TRP	1108	-10.975	106.204	63.563	1.00	71.37	C
ATOM	8406	CE3	TRP	1108	-9.335	104.815	64.652	1.00	71.37	C
ATOM	8407	CZ2	TRP	1108	-11.365	106.761	64.747	1.00	71.37	C
ATOM	8408	CZ3	TRP	1108	-9.729	105.381	65.845	1.00	71.37	C
ATOM	8409	CH2	TRP	1108	-10.724	106.335	65.891	1.00	71.37	C
ATOM	8410	C	TRP	1108	-6.764	105.036	62.264	1.00	71.37	C
ATOM	8411	O	TRP	1108	-6.820	106.252	62.435	1.00	71.37	O
ATOM	8412	N	LEU	1109	-6.058	104.227	63.078	1.00	139.05	N
ATOM	8413	CA	LEU	1109	-5.351	104.717	64.227	1.00	139.05	C
ATOM	8414	CB	LEU	1109	-4.603	103.567	64.936	1.00	139.05	C
ATOM	8415	CG	LEU	1109	-4.031	103.873	66.336	1.00	139.05	C
ATOM	8416	CD1	LEU	1109	-3.040	105.042	66.332	1.00	139.05	C
ATOM	8417	CD2	LEU	1109	-5.150	104.019	67.373	1.00	139.05	C
ATOM	8418	C	LEU	1109	-4.319	105.703	63.756	1.00	139.05	C
ATOM	8419	O	LEU	1109	-4.275	106.847	64.202	1.00	139.05	O
ATOM	8420	N	ARG	1110	-3.504	105.290	62.773	1.00	112.02	N
ATOM	8421	CA	ARG	1110	-2.417	106.064	62.240	1.00	112.02	C
ATOM	8422	CB	ARG	1110	-1.563	105.250	61.255	1.00	112.02	C
ATOM	8423	CG	ARG	1110	-0.912	104.029	61.915	1.00	112.02	C
ATOM	8424	CD	ARG	1110	-0.156	103.129	60.936	1.00	112.02	C
ATOM	8425	NE	ARG	1110	0.421	101.989	61.706	1.00	112.02	N
ATOM	8426	CZ	ARG	1110	0.758	100.842	61.046	1.00	112.02	C
ATOM	8427	NH1	ARG	1110	0.558	100.755	59.701	1.00	112.02	N
ATOM	8428	NH2	ARG	1110	1.288	99.779	61.715	1.00	112.02	N
ATOM	8429	C	ARG	1110	-2.963	107.261	61.530	1.00	112.02	C
ATOM	8430	O	ARG	1110	-2.272	108.268	61.383	1.00	112.02	O
ATOM	8431	N	ALA	1111	-4.204	107.163	61.021	1.00	50.57	N
ATOM	8432	CA	ALA	1111	-4.770	108.250	60.273	1.00	50.57	C
ATOM	8433	CB	ALA	1111	-6.180	107.929	59.748	1.00	50.57	C
ATOM	8434	C	ALA	1111	-4.883	109.484	61.133	1.00	50.57	C
ATOM	8435	O	ALA	1111	-4.514	110.576	60.708	1.00	50.57	O
ATOM	8436	N	HIS	1112	-5.385	109.327	62.373	1.00	106.22	N
ATOM	8437	CA	HIS	1112	-5.637	110.356	63.352	1.00	106.22	C
ATOM	8438	ND1	HIS	1112	-8.420	108.669	63.197	1.00	106.22	N
ATOM	8439	CG	HIS	1112	-7.997	109.740	63.950	1.00	106.22	C
ATOM	8440	CB	HIS	1112	-6.599	109.906	64.463	1.00	106.22	C
ATOM	8441	NE2	HIS	1112	-10.172	110.020	63.422	1.00	106.22	N
ATOM	8442	CD2	HIS	1112	-9.080	110.555	64.080	1.00	106.22	C
ATOM	8443	CE1	HIS	1112	-9.728	108.887	62.907	1.00	106.22	C
ATOM	8444	C	HIS	1112	-4.380	110.850	64.003	1.00	106.22	C
ATOM	8445	O	HIS	1112	-4.453	111.700	64.888	1.00	106.22	O
ATOM	8446	N	LEU	1113	-3.225	110.221	63.718	1.00	124.30	N
ATOM	8447	CA	LEU	1113	-1.974	110.637	64.297	1.00	124.30	C
ATOM	8448	CB	LEU	1113	-1.095	109.442	64.708	1.00	124.30	C
ATOM	8449	CG	LEU	1113	-1.535	108.708	65.987	1.00	124.30	C
ATOM	8450	CD1	LEU	1113	-1.046	109.446	67.234	1.00	124.30	C
ATOM	8451	CD2	LEU	1113	-3.053	108.491	66.027	1.00	124.30	C
ATOM	8452	C	LEU	1113	-1.178	111.400	63.281	1.00	124.30	C
ATOM	8453	O	LEU	1113	-1.003	110.945	62.151	1.00	124.30	O
ATOM	8454	N	GLY	1114	-0.650	112.582	63.674	1.00	45.25	N
ATOM	8455	CA	GLY	1114	0.146	113.363	62.766	1.00	45.25	C
ATOM	8456	C	GLY	1114	1.568	113.312	63.238	1.00	45.25	C
ATOM	8457	O	GLY	1114	1.945	113.939	64.227	1.00	45.25	O
ATOM	8458	N	ILE	1115	2.415	112.596	62.480	1.00	145.45	N
ATOM	8459	CA	ILE	1115	3.783	112.385	62.845	1.00	145.45	C
ATOM	8460	CB	ILE	1115	4.242	111.031	62.362	1.00	145.45	C
ATOM	8461	CG1	ILE	1115	5.492	110.522	63.097	1.00	145.45	C
ATOM	8462	CG2	ILE	1115	4.378	111.106	60.831	1.00	145.45	C
ATOM	8463	CD1	ILE	1115	6.757	111.322	62.845	1.00	145.45	C
ATOM	8464	C	ILE	1115	4.614	113.468	62.215	1.00	145.45	C
ATOM	8465	O	ILE	1115	4.354	113.886	61.087	1.00	145.45	O
ATOM	8466	N	VAL	1116	5.575	114.025	62.987	1.00	81.35	N
ATOM	8467	CA	VAL	1116	6.524	114.975	62.467	1.00	81.35	C
ATOM	8468	CB	VAL	1116	6.446	116.325	63.130	1.00	81.35	C
ATOM	8469	CG1	VAL	1116	7.536	117.234	62.533	1.00	81.35	C
ATOM	8470	CG2	VAL	1116	5.016	116.874	62.977	1.00	81.35	C
ATOM	8471	C	VAL	1116	7.868	114.397	62.795	1.00	81.35	C
ATOM	8472	O	VAL	1116	8.342	114.514	63.924	1.00	81.35	O
ATOM	8473	N	SER	1117	8.542	113.786	61.802	1.00	50.31	N
ATOM	8474	CA	SER	1117	9.786	113.110	62.061	1.00	50.31	C
ATOM	8475	CB	SER	1117	10.207	112.147	60.939	1.00	50.31	C
ATOM	8476	OG	SER	1117	9.266	111.091	60.822	1.00	50.31	O
ATOM	8477	C	SER	1117	10.883	114.112	62.227	1.00	50.31	C
ATOM	8478	O	SER	1117	10.707	115.298	61.949	1.00	50.31	O

ATOM	8479	N	GLN	1118	12.049	113.645	62.730	1.00124.27	N
ATOM	8480	CA	GLN	1118	13.148	114.544	62.946	1.00124.27	C
ATOM	8481	CB	GLN	1118	14.424	113.850	63.445	1.00124.27	C
ATOM	8482	CG	GLN	1118	14.356	113.229	64.834	1.00124.27	C
ATOM	8483	CD	GLN	1118	15.727	112.616	65.080	1.00124.27	C
ATOM	8484	OE1	GLN	1118	15.840	111.451	65.461	1.00124.27	O
ATOM	8485	NE2	GLN	1118	16.801	113.417	64.848	1.00124.27	N
ATOM	8486	C	GLN	1118	13.568	115.115	61.631	1.00124.27	C
ATOM	8487	O	GLN	1118	13.480	116.321	61.406	1.00124.27	O
ATOM	8488	N	GLU	1119	13.985	114.247	60.689	1.00134.65	N
ATOM	8489	CA	GLU	1119	14.397	114.799	59.436	1.00134.65	C
ATOM	8490	CB	GLU	1119	15.768	114.311	58.944	1.00134.65	C
ATOM	8491	CG	GLU	1119	16.320	115.188	57.820	1.00134.65	C
ATOM	8492	CD	GLU	1119	16.667	116.544	58.424	1.00134.65	C
ATOM	8493	OE1	GLU	1119	16.715	116.635	59.680	1.00134.65	O
ATOM	8494	OE2	GLU	1119	16.885	117.506	57.640	1.00134.65	O
ATOM	8495	C	GLU	1119	13.362	114.389	58.447	1.00134.65	C
ATOM	8496	O	GLU	1119	13.252	113.221	58.079	1.00134.65	O
ATOM	8497	N	PRO	1120	12.591	115.346	58.023	1.00 87.67	N
ATOM	8498	CA	PRO	1120	11.487	115.110	57.141	1.00 87.67	C
ATOM	8499	CD	PRO	1120	13.000	116.740	58.036	1.00 87.67	C
ATOM	8500	CB	PRO	1120	10.879	116.486	56.886	1.00 87.67	C
ATOM	8501	CG	PRO	1120	12.094	117.426	56.998	1.00 87.67	C
ATOM	8502	C	PRO	1120	11.922	114.475	55.862	1.00 87.67	C
ATOM	8503	O	PRO	1120	12.830	114.990	55.210	1.00 87.67	O
ATOM	8504	N	ILE	1121	11.241	113.387	55.457	1.00112.71	N
ATOM	8505	CA	ILE	1121	11.575	112.733	54.229	1.00112.71	C
ATOM	8506	CB	ILE	1121	11.257	111.263	54.242	1.00112.71	C
ATOM	8507	CG1	ILE	1121	11.987	110.546	55.388	1.00112.71	C
ATOM	8508	CG2	ILE	1121	11.584	110.696	52.850	1.00112.71	C
ATOM	8509	CD1	ILE	1121	13.508	110.630	55.301	1.00112.71	C
ATOM	8510	C	ILE	1121	10.682	113.327	53.190	1.00112.71	C
ATOM	8511	O	ILE	1121	9.462	113.350	53.352	1.00112.71	O
ATOM	8512	N	LEU	1122	11.278	113.858	52.105	1.00 62.87	N
ATOM	8513	CA	LEU	1122	10.500	114.375	51.018	1.00 62.87	C
ATOM	8514	CB	LEU	1122	10.855	115.812	50.601	1.00 62.87	C
ATOM	8515	CG	LEU	1122	10.463	116.873	51.645	1.00 62.87	C
ATOM	8516	CD1	LEU	1122	10.809	118.287	51.153	1.00 62.87	C
ATOM	8517	CD2	LEU	1122	8.988	116.733	52.056	1.00 62.87	C
ATOM	8518	C	LEU	1122	10.763	113.493	49.840	1.00 62.87	C
ATOM	8519	O	LEU	1122	11.893	113.068	49.604	1.00 62.87	O
ATOM	8520	N	PHE	1123	9.700	113.172	49.081	1.00 81.66	N
ATOM	8521	CA	PHE	1123	9.834	112.322	47.936	1.00 81.66	C
ATOM	8522	CB	PHE	1123	8.564	111.511	47.624	1.00 81.66	C
ATOM	8523	CG	PHE	1123	8.303	110.558	48.739	1.00 81.66	C
ATOM	8524	CD1	PHE	1123	8.929	109.333	48.776	1.00 81.66	C
ATOM	8525	CD2	PHE	1123	7.423	110.886	49.746	1.00 81.66	C
ATOM	8526	CE1	PHE	1123	8.685	108.450	49.802	1.00 81.66	C
ATOM	8527	CE2	PHE	1123	7.176	110.007	50.774	1.00 81.66	C
ATOM	8528	CZ	PHE	1123	7.807	108.787	50.804	1.00 81.66	C
ATOM	8529	C	PHE	1123	10.081	113.168	46.731	1.00 81.66	C
ATOM	8530	O	PHE	1123	9.743	114.353	46.695	1.00 81.66	O
ATOM	8531	N	ASP	1124	10.690	112.558	45.695	1.00 77.48	N
ATOM	8532	CA	ASP	1124	10.930	113.291	44.490	1.00 77.48	C
ATOM	8533	CB	ASP	1124	11.852	112.559	43.502	1.00 77.48	C
ATOM	8534	CG	ASP	1124	13.254	112.582	44.092	1.00 77.48	C
ATOM	8535	OD1	ASP	1124	13.739	113.697	44.421	1.00 77.48	O
ATOM	8536	OD2	ASP	1124	13.860	111.486	44.219	1.00 77.48	O
ATOM	8537	C	ASP	1124	9.598	113.484	43.832	1.00 77.48	C
ATOM	8538	O	ASP	1124	9.143	112.626	43.077	1.00 77.48	O
ATOM	8539	N	CYS	1125	8.932	114.625	44.127	1.00 58.31	N
ATOM	8540	CA	CYS	1125	7.646	114.910	43.555	1.00 58.31	C
ATOM	8541	CB	CYS	1125	6.520	114.063	44.174	1.00 58.31	C
ATOM	8542	SG	CYS	1125	4.963	114.161	43.243	1.00 58.31	S
ATOM	8543	C	CYS	1125	7.343	116.367	43.812	1.00 58.31	C
ATOM	8544	O	CYS	1125	8.144	117.077	44.416	1.00 58.31	O
ATOM	8545	N	SER	1126	6.168	116.859	43.354	1.00 42.06	N
ATOM	8546	CA	SER	1126	5.812	118.248	43.519	1.00 42.06	C
ATOM	8547	CB	SER	1126	4.656	118.709	42.616	1.00 42.06	C
ATOM	8548	OG	SER	1126	3.450	118.066	43.001	1.00 42.06	O
ATOM	8549	C	SER	1126	5.394	118.480	44.939	1.00 42.06	C
ATOM	8550	O	SER	1126	5.246	117.540	45.718	1.00 42.06	O
ATOM	8551	N	ILE	1127	5.231	119.765	45.320	1.00143.98	N
ATOM	8552	CA	ILE	1127	4.859	120.091	46.667	1.00143.98	C

ATOM	8553	CB	ILE	1127	4.951	121.558	47.005	1.00143.98	C
ATOM	8554	CG1	ILE	1127	5.110	121.716	48.523	1.00143.98	C
ATOM	8555	CG2	ILE	1127	3.715	122.297	46.471	1.00143.98	C
ATOM	8556	CD1	ILE	1127	6.451	121.195	49.039	1.00143.98	C
ATOM	8557	C	ILE	1127	3.466	119.603	46.931	1.00143.98	C
ATOM	8558	O	ILE	1127	3.198	119.026	47.982	1.00143.98	O
ATOM	8559	N	ALA	1128	2.541	119.786	45.967	1.00 47.73	N
ATOM	8560	CA	ALA	1128	1.167	119.447	46.197	1.00 47.73	C
ATOM	8561	CB	ALA	1128	0.258	119.772	44.998	1.00 47.73	C
ATOM	8562	C	ALA	1128	1.052	117.981	46.476	1.00 47.73	C
ATOM	8563	O	ALA	1128	0.304	117.578	47.365	1.00 47.73	O
ATOM	8564	N	GLU	1129	1.771	117.141	45.706	1.00100.66	N
ATOM	8565	CA	GLU	1129	1.718	115.721	45.909	1.00100.66	C
ATOM	8566	CB	GLU	1129	2.353	114.900	44.771	1.00100.66	C
ATOM	8567	CG	GLU	1129	1.411	114.641	43.589	1.00100.66	C
ATOM	8568	CD	GLU	1129	1.246	115.906	42.762	1.00100.66	C
ATOM	8569	OE1	GLU	1129	2.117	116.155	41.889	1.00100.66	O
ATOM	8570	OE2	GLU	1129	0.242	116.635	42.986	1.00100.66	O
ATOM	8571	C	GLU	1129	2.378	115.316	47.198	1.00100.66	C
ATOM	8572	O	GLU	1129	1.868	114.449	47.904	1.00100.66	O
ATOM	8573	N	ASN	1130	3.531	115.921	47.551	1.00 63.30	N
ATOM	8574	CA	ASN	1130	4.220	115.526	48.754	1.00 63.30	C
ATOM	8575	CB	ASN	1130	5.559	116.256	48.965	1.00 63.30	C
ATOM	8576	CG	ASN	1130	6.632	115.520	48.173	1.00 63.30	C
ATOM	8577	OD1	ASN	1130	6.982	114.386	48.496	1.00 63.30	O
ATOM	8578	ND2	ASN	1130	7.175	116.175	47.112	1.00 63.30	N
ATOM	8579	C	ASN	1130	3.352	115.799	49.949	1.00 63.30	C
ATOM	8580	O	ASN	1130	3.271	114.970	50.854	1.00 63.30	O
ATOM	8581	N	ILE	1131	2.692	116.975	50.001	1.00100.68	N
ATOM	8582	CA	ILE	1131	1.830	117.291	51.113	1.00100.68	C
ATOM	8583	CB	ILE	1131	1.307	118.704	51.125	1.00100.68	C
ATOM	8584	CG1	ILE	1131	2.399	119.710	51.540	1.00100.68	C
ATOM	8585	CG2	ILE	1131	0.085	118.735	52.060	1.00100.68	C
ATOM	8586	CD1	ILE	1131	3.550	119.877	50.557	1.00100.68	C
ATOM	8587	C	ILE	1131	0.641	116.373	51.132	1.00100.68	C
ATOM	8588	O	ILE	1131	0.230	115.899	52.189	1.00100.68	O
ATOM	8589	N	ALA	1132	0.071	116.092	49.946	1.00 59.94	N
ATOM	8590	CA	ALA	1132	-1.109	115.290	49.756	1.00 59.94	C
ATOM	8591	CB	ALA	1132	-1.523	115.183	48.277	1.00 59.94	C
ATOM	8592	C	ALA	1132	-0.870	113.896	50.260	1.00 59.94	C
ATOM	8593	O	ALA	1132	-1.805	113.189	50.630	1.00 59.94	O
ATOM	8594	N	TYR	1133	0.400	113.460	50.260	1.00109.44	N
ATOM	8595	CA	TYR	1133	0.827	112.138	50.629	1.00109.44	C
ATOM	8596	CB	TYR	1133	2.363	112.016	50.550	1.00109.44	C
ATOM	8597	CG	TYR	1133	2.793	110.588	50.630	1.00109.44	C
ATOM	8598	CD1	TYR	1133	2.632	109.747	49.550	1.00109.44	C
ATOM	8599	CD2	TYR	1133	3.392	110.094	51.766	1.00109.44	C
ATOM	8600	CE1	TYR	1133	3.038	108.433	49.606	1.00109.44	C
ATOM	8601	CE2	TYR	1133	3.801	108.781	51.828	1.00109.44	C
ATOM	8602	CZ	TYR	1133	3.623	107.947	50.750	1.00109.44	C
ATOM	8603	OH	TYR	1133	4.043	106.601	50.818	1.00109.44	O
ATOM	8604	C	TYR	1133	0.370	111.852	52.034	1.00109.44	C
ATOM	8605	O	TYR	1133	0.127	110.696	52.383	1.00109.44	O
ATOM	8606	N	GLY	1134	0.278	112.884	52.898	1.00 49.30	N
ATOM	8607	CA	GLY	1134	-0.108	112.659	54.265	1.00 49.30	C
ATOM	8608	C	GLY	1134	-1.462	112.016	54.341	1.00 49.30	C
ATOM	8609	O	GLY	1134	-1.610	110.988	55.000	1.00 49.30	O
ATOM	8610	N	ASP	1135	-2.489	112.573	53.669	1.00 59.33	N
ATOM	8611	CA	ASP	1135	-3.790	111.963	53.722	1.00 59.33	C
ATOM	8612	CB	ASP	1135	-4.924	112.978	53.960	1.00 59.33	C
ATOM	8613	CG	ASP	1135	-6.245	112.242	54.170	1.00 59.33	C
ATOM	8614	OD1	ASP	1135	-6.321	111.024	53.854	1.00 59.33	O
ATOM	8615	OD2	ASP	1135	-7.205	112.901	54.650	1.00 59.33	O
ATOM	8616	C	ASP	1135	-4.021	111.319	52.391	1.00 59.33	C
ATOM	8617	O	ASP	1135	-4.319	112.001	51.413	1.00 59.33	O
ATOM	8618	N	ASN	1136	-3.881	109.979	52.310	1.00103.17	N
ATOM	8619	CA	ASN	1136	-4.073	109.329	51.043	1.00103.17	C
ATOM	8620	CB	ASN	1136	-3.174	108.105	50.795	1.00103.17	C
ATOM	8621	CG	ASN	1136	-1.827	108.641	50.319	1.00103.17	C
ATOM	8622	OD1	ASN	1136	-0.808	108.509	50.993	1.00103.17	O
ATOM	8623	ND2	ASN	1136	-1.820	109.274	49.116	1.00103.17	N
ATOM	8624	C	ASN	1136	-5.513	108.961	50.861	1.00103.17	C
ATOM	8625	O	ASN	1136	-6.290	108.931	51.814	1.00103.17	O
ATOM	8626	N	SER	1137	-5.879	108.632	49.604	1.00102.07	N

ATOM	8627	CA	SER	1137	-7.222	108.292	49.226	1.00102.07	C
ATOM	8628	CB	SER	1137	-7.753	107.065	49.984	1.00102.07	C
ATOM	8629	OG	SER	1137	-6.902	105.953	49.759	1.00102.07	O
ATOM	8630	C	SER	1137	-8.167	109.427	49.492	1.00102.07	C
ATOM	8631	O	SER	1137	-9.169	109.255	50.185	1.00102.07	O
ATOM	8632	N	ARG	1138	-7.867	110.631	48.955	1.00 94.57	N
ATOM	8633	CA	ARG	1138	-8.759	111.745	49.135	1.00 94.57	C
ATOM	8634	CB	ARG	1138	-8.326	112.695	50.260	1.00 94.57	C
ATOM	8635	CG	ARG	1138	-9.362	113.778	50.545	1.00 94.57	C
ATOM	8636	CD	ARG	1138	-8.967	114.735	51.667	1.00 94.57	C
ATOM	8637	NE	ARG	1138	-10.145	115.612	51.905	1.00 94.57	N
ATOM	8638	CZ	ARG	1138	-10.313	116.227	53.110	1.00 94.57	C
ATOM	8639	NH1	ARG	1138	-9.353	116.117	54.074	1.00 94.57	N
ATOM	8640	NH2	ARG	1138	-11.449	116.944	53.351	1.00 94.57	N
ATOM	8641	C	ARG	1138	-8.797	112.551	47.867	1.00 94.57	C
ATOM	8642	O	ARG	1138	-7.883	112.481	47.047	1.00 94.57	O
ATOM	8643	N	VAL	1139	-9.881	113.342	47.690	1.00105.78	N
ATOM	8644	CA	VAL	1139	-10.110	114.150	46.520	1.00105.78	C
ATOM	8645	CB	VAL	1139	-11.448	114.843	46.547	1.00105.78	C
ATOM	8646	CG1	VAL	1139	-11.480	115.835	47.722	1.00105.78	C
ATOM	8647	CG2	VAL	1139	-11.697	115.493	45.175	1.00105.78	C
ATOM	8648	C	VAL	1139	-9.037	115.197	46.389	1.00105.78	C
ATOM	8649	O	VAL	1139	-8.506	115.405	45.299	1.00105.78	O
ATOM	8650	N	VAL	1140	-8.663	115.860	47.505	1.00169.92	N
ATOM	8651	CA	VAL	1140	-7.645	116.880	47.500	1.00169.92	C
ATOM	8652	CB	VAL	1140	-6.226	116.384	47.570	1.00169.92	C
ATOM	8653	CG1	VAL	1140	-5.923	115.945	49.007	1.00169.92	C
ATOM	8654	CG2	VAL	1140	-6.059	115.240	46.561	1.00169.92	C
ATOM	8655	C	VAL	1140	-7.765	117.838	46.367	1.00169.92	C
ATOM	8656	O	VAL	1140	-7.161	117.664	45.309	1.00169.92	O
ATOM	8657	N	SER	1141	-8.597	118.874	46.580	1.00 94.63	N
ATOM	8658	CA	SER	1141	-8.808	119.903	45.613	1.00 94.63	C
ATOM	8659	CB	SER	1141	-10.210	120.520	45.720	1.00 94.63	C
ATOM	8660	OG	SER	1141	-10.421	121.416	44.644	1.00 94.63	O
ATOM	8661	C	SER	1141	-7.788	120.983	45.821	1.00 94.63	C
ATOM	8662	O	SER	1141	-6.968	120.933	46.737	1.00 94.63	O
ATOM	8663	N	GLN	1142	-7.829	121.996	44.933	1.00 79.98	N
ATOM	8664	CA	GLN	1142	-6.904	123.091	44.907	1.00 79.98	C
ATOM	8665	CB	GLN	1142	-7.183	124.045	43.734	1.00 79.98	C
ATOM	8666	CG	GLN	1142	-7.293	123.336	42.381	1.00 79.98	C
ATOM	8667	CD	GLN	1142	-5.974	122.648	42.062	1.00 79.98	C
ATOM	8668	OE1	GLN	1142	-5.891	121.848	41.131	1.00 79.98	O
ATOM	8669	NE2	GLN	1142	-4.911	122.960	42.851	1.00 79.98	N
ATOM	8670	C	GLN	1142	-7.054	123.897	46.159	1.00 79.98	C
ATOM	8671	O	GLN	1142	-6.068	124.358	46.732	1.00 79.98	O
ATOM	8672	N	GLU	1143	-8.304	124.083	46.620	1.00 82.50	N
ATOM	8673	CA	GLU	1143	-8.542	124.936	47.746	1.00 82.50	C
ATOM	8674	CB	GLU	1143	-10.028	125.070	48.127	1.00 82.50	C
ATOM	8675	CG	GLU	1143	-10.641	123.768	48.650	1.00 82.50	C
ATOM	8676	CD	GLU	1143	-11.936	124.106	49.378	1.00 82.50	C
ATOM	8677	OE1	GLU	1143	-12.282	125.316	49.446	1.00 82.50	O
ATOM	8678	OE2	GLU	1143	-12.593	123.157	49.884	1.00 82.50	O
ATOM	8679	C	GLU	1143	-7.865	124.391	48.961	1.00 82.50	C
ATOM	8680	O	GLU	1143	-7.269	125.147	49.725	1.00 82.50	O
ATOM	8681	N	GLU	1144	-7.930	123.064	49.176	1.00125.08	N
ATOM	8682	CA	GLU	1144	-7.412	122.540	50.406	1.00125.08	C
ATOM	8683	CB	GLU	1144	-7.875	121.119	50.798	1.00125.08	C
ATOM	8684	CG	GLU	1144	-7.398	119.945	49.950	1.00125.08	C
ATOM	8685	CD	GLU	1144	-7.770	118.697	50.745	1.00125.08	C
ATOM	8686	OE1	GLU	1144	-8.030	118.836	51.970	1.00125.08	O
ATOM	8687	OE2	GLU	1144	-7.802	117.591	50.144	1.00125.08	O
ATOM	8688	C	GLU	1144	-5.917	122.639	50.499	1.00125.08	C
ATOM	8689	O	GLU	1144	-5.378	122.715	51.601	1.00125.08	O
ATOM	8690	N	ILE	1145	-5.189	122.610	49.367	1.00159.09	N
ATOM	8691	CA	ILE	1145	-3.753	122.631	49.444	1.00159.09	C
ATOM	8692	CB	ILE	1145	-3.089	122.305	48.127	1.00159.09	C
ATOM	8693	CG1	ILE	1145	-3.460	123.291	47.010	1.00159.09	C
ATOM	8694	CG2	ILE	1145	-3.443	120.852	47.784	1.00159.09	C
ATOM	8695	CD1	ILE	1145	-2.700	124.611	47.072	1.00159.09	C
ATOM	8696	C	ILE	1145	-3.218	123.917	50.024	1.00159.09	C
ATOM	8697	O	ILE	1145	-2.307	123.890	50.851	1.00159.09	O
ATOM	8698	N	VAL	1146	-3.777	125.079	49.636	1.00 98.73	N
ATOM	8699	CA	VAL	1146	-3.252	126.357	50.041	1.00 98.73	C
ATOM	8700	CB	VAL	1146	-3.969	127.512	49.397	1.00 98.73	C

ATOM	8701	CG1	VAL	1146	-5.414	127.561	49.922	1.00	98.73	C
ATOM	8702	CG2	VAL	1146	-3.170	128.798	49.669	1.00	98.73	C
ATOM	8703	C	VAL	1146	-3.331	126.559	51.527	1.00	98.73	C
ATOM	8704	O	VAL	1146	-2.402	127.092	52.133	1.00	98.73	O
ATOM	8705	N	ARG	1147	-4.438	126.140	52.164	1.00	121.80	N
ATOM	8706	CA	ARG	1147	-4.621	126.413	53.563	1.00	121.80	C
ATOM	8707	CB	ARG	1147	-5.988	125.950	54.100	1.00	121.80	C
ATOM	8708	CG	ARG	1147	-6.287	126.437	55.521	1.00	121.80	C
ATOM	8709	CD	ARG	1147	-6.514	125.310	56.528	1.00	121.80	C
ATOM	8710	NE	ARG	1147	-7.692	124.532	56.055	1.00	121.80	N
ATOM	8711	CZ	ARG	1147	-8.070	123.398	56.713	1.00	121.80	C
ATOM	8712	NH1	ARG	1147	-7.402	123.012	57.839	1.00	121.80	N
ATOM	8713	NH2	ARG	1147	-9.108	122.648	56.241	1.00	121.80	N
ATOM	8714	C	ARG	1147	-3.550	125.742	54.372	1.00	121.80	C
ATOM	8715	O	ARG	1147	-3.054	126.315	55.340	1.00	121.80	O
ATOM	8716	N	ALA	1148	-3.165	124.506	54.003	1.00	34.78	N
ATOM	8717	CA	ALA	1148	-2.193	123.767	54.762	1.00	34.78	C
ATOM	8718	CB	ALA	1148	-1.972	122.345	54.214	1.00	34.78	C
ATOM	8719	C	ALA	1148	-0.870	124.474	54.741	1.00	34.78	C
ATOM	8720	O	ALA	1148	-0.192	124.571	55.762	1.00	34.78	O
ATOM	8721	N	ALA	1149	-0.470	124.990	53.565	1.00	48.92	N
ATOM	8722	CA	ALA	1149	0.790	125.656	53.401	1.00	48.92	C
ATOM	8723	CB	ALA	1149	1.066	126.060	51.941	1.00	48.92	C
ATOM	8724	C	ALA	1149	0.820	126.903	54.240	1.00	48.92	C
ATOM	8725	O	ALA	1149	1.871	127.288	54.751	1.00	48.92	O
ATOM	8726	N	LYS	1150	-0.331	127.591	54.374	1.00	134.24	N
ATOM	8727	CA	LYS	1150	-0.409	128.821	55.119	1.00	134.24	C
ATOM	8728	CB	LYS	1150	-1.859	129.329	55.240	1.00	134.24	C
ATOM	8729	CG	LYS	1150	-2.566	129.721	53.942	1.00	134.24	C
ATOM	8730	CD	LYS	1150	-2.071	131.017	53.306	1.00	134.24	C
ATOM	8731	CE	LYS	1150	-2.985	131.500	52.177	1.00	134.24	C
ATOM	8732	NZ	LYS	1150	-4.343	131.763	52.702	1.00	134.24	N
ATOM	8733	C	LYS	1150	-0.008	128.566	56.544	1.00	134.24	C
ATOM	8734	O	LYS	1150	0.857	129.243	57.097	1.00	134.24	O
ATOM	8735	N	GLU	1151	-0.620	127.538	57.158	1.00	98.29	N
ATOM	8736	CA	GLU	1151	-0.462	127.211	58.550	1.00	98.29	C
ATOM	8737	CB	GLU	1151	-1.308	125.988	58.940	1.00	98.29	C
ATOM	8738	CG	GLU	1151	-2.808	126.156	58.684	1.00	98.29	C
ATOM	8739	CD	GLU	1151	-3.471	126.648	59.957	1.00	98.29	C
ATOM	8740	OE1	GLU	1151	-2.783	126.665	61.012	1.00	98.29	O
ATOM	8741	OE2	GLU	1151	-4.679	127.001	59.891	1.00	98.29	O
ATOM	8742	C	GLU	1151	0.964	126.829	58.810	1.00	98.29	C
ATOM	8743	O	GLU	1151	1.492	127.051	59.898	1.00	98.29	O
ATOM	8744	N	ALA	1152	1.585	126.175	57.817	1.00	80.92	N
ATOM	8745	CA	ALA	1152	2.939	125.693	57.792	1.00	80.92	C
ATOM	8746	CB	ALA	1152	3.227	124.795	56.577	1.00	80.92	C
ATOM	8747	C	ALA	1152	3.921	126.829	57.767	1.00	80.92	C
ATOM	8748	O	ALA	1152	5.098	126.629	58.056	1.00	80.92	O
ATOM	8749	N	ASN	1153	3.486	128.028	57.327	1.00	110.62	N
ATOM	8750	CA	ASN	1153	4.341	129.182	57.223	1.00	110.62	C
ATOM	8751	CB	ASN	1153	5.196	129.422	58.483	1.00	110.62	C
ATOM	8752	CG	ASN	1153	4.273	129.864	59.612	1.00	110.62	C
ATOM	8753	OD1	ASN	1153	4.198	129.222	60.659	1.00	110.62	O
ATOM	8754	ND2	ASN	1153	3.549	130.996	59.399	1.00	110.62	N
ATOM	8755	C	ASN	1153	5.271	129.026	56.056	1.00	110.62	C
ATOM	8756	O	ASN	1153	6.396	129.526	56.083	1.00	110.62	O
ATOM	8757	N	ILE	1154	4.871	128.188	55.080	1.00	197.68	N
ATOM	8758	CA	ILE	1154	5.483	128.018	53.787	1.00	197.68	C
ATOM	8759	CB	ILE	1154	5.286	126.651	53.212	1.00	197.68	C
ATOM	8760	CG1	ILE	1154	5.604	125.548	54.227	1.00	197.68	C
ATOM	8761	CG2	ILE	1154	6.240	126.566	52.017	1.00	197.68	C
ATOM	8762	CD1	ILE	1154	5.171	124.165	53.740	1.00	197.68	C
ATOM	8763	C	ILE	1154	4.923	128.974	52.768	1.00	197.68	C
ATOM	8764	O	ILE	1154	5.597	129.350	51.813	1.00	197.68	O
ATOM	8765	N	HIS	1155	3.632	129.334	52.915	1.00	78.35	N
ATOM	8766	CA	HIS	1155	2.868	130.024	51.905	1.00	78.35	C
ATOM	8767	ND1	HIS	1155	-0.072	130.438	50.415	1.00	78.35	N
ATOM	8768	CG	HIS	1155	0.596	131.083	51.432	1.00	78.35	C
ATOM	8769	CB	HIS	1155	1.475	130.405	52.435	1.00	78.35	C
ATOM	8770	NE2	HIS	1155	-0.601	132.592	50.259	1.00	78.35	N
ATOM	8771	CD2	HIS	1155	0.262	132.397	51.322	1.00	78.35	C
ATOM	8772	CE1	HIS	1155	-0.773	131.388	49.746	1.00	78.35	C
ATOM	8773	C	HIS	1155	3.557	131.274	51.443	1.00	78.35	C
ATOM	8774	O	HIS	1155	3.659	131.508	50.239	1.00	78.35	O

ATOM	8775	N	ALA	1156	4.052	132.114	52.367	1.00	29.19	N
ATOM	8776	CA	ALA	1156	4.678	133.337	51.948	1.00	29.19	C
ATOM	8777	CB	ALA	1156	5.127	134.209	53.133	1.00	29.19	C
ATOM	8778	C	ALA	1156	5.896	133.027	51.129	1.00	29.19	C
ATOM	8779	O	ALA	1156	6.122	133.642	50.089	1.00	29.19	O
ATOM	8780	N	PHE	1157	6.708	132.051	51.579	1.00	72.46	N
ATOM	8781	CA	PHE	1157	7.923	131.673	50.909	1.00	72.46	C
ATOM	8782	CB	PHE	1157	8.726	130.615	51.690	1.00	72.46	C
ATOM	8783	CG	PHE	1157	9.776	130.061	50.783	1.00	72.46	C
ATOM	8784	CD1	PHE	1157	10.900	130.787	50.465	1.00	72.46	C
ATOM	8785	CD2	PHE	1157	9.636	128.794	50.257	1.00	72.46	C
ATOM	8786	CE1	PHE	1157	11.857	130.260	49.628	1.00	72.46	C
ATOM	8787	CE2	PHE	1157	10.590	128.263	49.421	1.00	72.46	C
ATOM	8788	CZ	PHE	1157	11.704	128.998	49.104	1.00	72.46	C
ATOM	8789	C	PHE	1157	7.621	131.095	49.563	1.00	72.46	C
ATOM	8790	O	PHE	1157	8.298	131.397	48.581	1.00	72.46	O
ATOM	8791	N	ILE	1158	6.589	130.240	49.491	1.00	122.33	N
ATOM	8792	CA	ILE	1158	6.255	129.526	48.291	1.00	122.33	C
ATOM	8793	CB	ILE	1158	5.175	128.506	48.537	1.00	122.33	C
ATOM	8794	CG1	ILE	1158	5.211	127.394	47.484	1.00	122.33	C
ATOM	8795	CG2	ILE	1158	3.820	129.225	48.607	1.00	122.33	C
ATOM	8796	CD1	ILE	1158	4.413	126.164	47.920	1.00	122.33	C
ATOM	8797	C	ILE	1158	5.824	130.484	47.215	1.00	122.33	C
ATOM	8798	O	ILE	1158	6.170	130.313	46.048	1.00	122.33	O
ATOM	8799	N	GLU	1159	5.089	131.547	47.588	1.00	63.72	N
ATOM	8800	CA	GLU	1159	4.505	132.464	46.646	1.00	63.72	C
ATOM	8801	CB	GLU	1159	3.847	133.667	47.346	1.00	63.72	C
ATOM	8802	CG	GLU	1159	2.684	133.310	48.273	1.00	63.72	C
ATOM	8803	CD	GLU	1159	2.281	134.582	49.010	1.00	63.72	C
ATOM	8804	OE1	GLU	1159	2.877	135.650	48.710	1.00	63.72	O
ATOM	8805	OE2	GLU	1159	1.377	134.504	49.883	1.00	63.72	O
ATOM	8806	C	GLU	1159	5.568	133.048	45.762	1.00	63.72	C
ATOM	8807	O	GLU	1159	5.328	133.288	44.580	1.00	63.72	O
ATOM	8808	N	SER	1160	6.752	133.342	46.327	1.00	92.35	N
ATOM	8809	CA	SER	1160	7.839	133.949	45.607	1.00	92.35	C
ATOM	8810	CB	SER	1160	8.937	134.462	46.550	1.00	92.35	C
ATOM	8811	OG	SER	1160	8.394	135.415	47.451	1.00	92.35	O
ATOM	8812	C	SER	1160	8.496	132.970	44.680	1.00	92.35	C
ATOM	8813	O	SER	1160	9.133	133.366	43.705	1.00	92.35	O
ATOM	8814	N	LEU	1161	8.350	131.665	44.961	1.00	159.96	N
ATOM	8815	CA	LEU	1161	9.035	130.603	44.276	1.00	159.96	C
ATOM	8816	CB	LEU	1161	8.742	129.275	44.996	1.00	159.96	C
ATOM	8817	CG	LEU	1161	9.658	128.099	44.656	1.00	159.96	C
ATOM	8818	CD1	LEU	1161	11.085	128.360	45.157	1.00	159.96	C
ATOM	8819	CD2	LEU	1161	9.088	126.790	45.216	1.00	159.96	C
ATOM	8820	C	LEU	1161	8.543	130.527	42.850	1.00	159.96	C
ATOM	8821	O	LEU	1161	7.410	130.903	42.558	1.00	159.96	O
ATOM	8822	N	PRO	1162	9.375	130.088	41.928	1.00	122.46	N
ATOM	8823	CA	PRO	1162	8.932	129.993	40.560	1.00	122.46	C
ATOM	8824	CD	PRO	1162	10.802	130.348	42.018	1.00	122.46	C
ATOM	8825	CB	PRO	1162	10.193	129.813	39.720	1.00	122.46	C
ATOM	8826	CG	PRO	1162	11.284	130.499	40.564	1.00	122.46	C
ATOM	8827	C	PRO	1162	7.939	128.889	40.434	1.00	122.46	C
ATOM	8828	O	PRO	1162	8.244	127.800	40.917	1.00	122.46	O
ATOM	8829	N	ASN	1163	6.816	129.111	39.708	1.00	108.07	N
ATOM	8830	CA	ASN	1163	5.764	128.132	39.662	1.00	108.07	C
ATOM	8831	CB	ASN	1163	6.102	126.885	38.830	1.00	108.07	C
ATOM	8832	CG	ASN	1163	4.785	126.182	38.539	1.00	108.07	C
ATOM	8833	OD1	ASN	1163	3.800	126.373	39.250	1.00	108.07	O
ATOM	8834	ND2	ASN	1163	4.759	125.355	37.460	1.00	108.07	N
ATOM	8835	C	ASN	1163	5.528	127.724	41.082	1.00	108.07	C
ATOM	8836	O	ASN	1163	5.986	126.673	41.527	1.00	108.07	O
ATOM	8837	N	LYS	1164	4.783	128.566	41.819	1.00	130.58	N
ATOM	8838	CA	LYS	1164	4.720	128.518	43.249	1.00	130.58	C
ATOM	8839	CB	LYS	1164	3.559	129.409	43.729	1.00	130.58	C
ATOM	8840	CG	LYS	1164	3.320	129.502	45.233	1.00	130.58	C
ATOM	8841	CD	LYS	1164	2.280	130.580	45.554	1.00	130.58	C
ATOM	8842	CE	LYS	1164	1.747	130.555	46.986	1.00	130.58	C
ATOM	8843	NZ	LYS	1164	0.642	131.530	47.117	1.00	130.58	N
ATOM	8844	C	LYS	1164	4.488	127.133	43.785	1.00	130.58	C
ATOM	8845	O	LYS	1164	5.407	126.538	44.346	1.00	130.58	O
ATOM	8846	N	TYR	1165	3.273	126.579	43.628	1.00	172.80	N
ATOM	8847	CA	TYR	1165	2.929	125.280	44.144	1.00	172.80	C
ATOM	8848	CB	TYR	1165	1.415	125.109	44.371	1.00	172.80	C

ATOM	8849	CG	TYR	1165	1.099	125.860	45.623	1.00172.80	C
ATOM	8850	CD1	TYR	1165	0.801	127.204	45.598	1.00172.80	C
ATOM	8851	CD2	TYR	1165	1.120	125.209	46.836	1.00172.80	C
ATOM	8852	CE1	TYR	1165	0.521	127.881	46.763	1.00172.80	C
ATOM	8853	CE2	TYR	1165	0.841	125.879	48.004	1.00172.80	C
ATOM	8854	CZ	TYR	1165	0.539	127.219	47.968	1.00172.80	C
ATOM	8855	OH	TYR	1165	0.253	127.910	49.164	1.00172.80	O
ATOM	8856	C	TYR	1165	3.453	124.141	43.319	1.00172.80	C
ATOM	8857	O	TYR	1165	3.759	123.072	43.845	1.00172.80	O
ATOM	8858	N	SER	1166	3.506	124.329	41.989	1.00 96.66	N
ATOM	8859	CA	SER	1166	3.849	123.300	41.044	1.00 96.66	C
ATOM	8860	CB	SER	1166	3.448	123.675	39.605	1.00 96.66	C
ATOM	8861	OG	SER	1166	3.799	122.637	38.702	1.00 96.66	O
ATOM	8862	C	SER	1166	5.320	122.974	41.046	1.00 96.66	C
ATOM	8863	O	SER	1166	5.745	122.090	40.304	1.00 96.66	O
ATOM	8864	N	THR	1167	6.149	123.661	41.855	1.00135.82	N
ATOM	8865	CA	THR	1167	7.570	123.420	41.806	1.00135.82	C
ATOM	8866	CB	THR	1167	8.374	124.155	42.840	1.00135.82	C
ATOM	8867	OG1	THR	1167	7.912	123.830	44.141	1.00135.82	O
ATOM	8868	CG2	THR	1167	8.291	125.658	42.609	1.00135.82	C
ATOM	8869	C	THR	1167	7.871	121.986	42.082	1.00135.82	C
ATOM	8870	O	THR	1167	7.470	121.435	43.105	1.00135.82	O
ATOM	8871	N	LYS	1168	8.631	121.349	41.171	1.00106.73	N
ATOM	8872	CA	LYS	1168	9.019	119.990	41.395	1.00106.73	C
ATOM	8873	CB	LYS	1168	9.574	119.297	40.138	1.00106.73	C
ATOM	8874	CG	LYS	1168	9.688	117.777	40.273	1.00106.73	C
ATOM	8875	CD	LYS	1168	8.335	117.059	40.276	1.00106.73	C
ATOM	8876	CE	LYS	1168	8.446	115.549	40.501	1.00106.73	C
ATOM	8877	NZ	LYS	1168	9.296	114.941	39.453	1.00106.73	N
ATOM	8878	C	LYS	1168	10.104	120.020	42.428	1.00106.73	C
ATOM	8879	O	LYS	1168	10.996	120.868	42.383	1.00106.73	O
ATOM	8880	N	VAL	1169	10.045	119.086	43.398	1.00 38.08	N
ATOM	8881	CA	VAL	1169	11.027	119.031	44.443	1.00 38.08	C
ATOM	8882	CB	VAL	1169	10.424	119.031	45.820	1.00 38.08	C
ATOM	8883	CG1	VAL	1169	11.555	118.905	46.855	1.00 38.08	C
ATOM	8884	CG2	VAL	1169	9.559	120.293	45.985	1.00 38.08	C
ATOM	8885	C	VAL	1169	11.758	117.736	44.280	1.00 38.08	C
ATOM	8886	O	VAL	1169	11.171	116.724	43.903	1.00 38.08	O
ATOM	8887	N	GLY	1170	13.077	117.743	44.555	1.00 23.49	N
ATOM	8888	CA	GLY	1170	13.864	116.556	44.400	1.00 23.49	C
ATOM	8889	C	GLY	1170	15.225	116.991	43.961	1.00 23.49	C
ATOM	8890	O	GLY	1170	15.628	118.134	44.173	1.00 23.49	O
ATOM	8891	N	ASP	1171	15.979	116.058	43.357	1.00 92.48	N
ATOM	8892	CA	ASP	1171	17.300	116.328	42.871	1.00 92.48	C
ATOM	8893	CB	ASP	1171	18.011	115.055	42.377	1.00 92.48	C
ATOM	8894	CG	ASP	1171	17.199	114.455	41.234	1.00 92.48	C
ATOM	8895	OD1	ASP	1171	15.953	114.339	41.380	1.00 92.48	O
ATOM	8896	OD2	ASP	1171	17.818	114.111	40.193	1.00 92.48	O
ATOM	8897	C	ASP	1171	17.230	117.295	41.724	1.00 92.48	C
ATOM	8898	O	ASP	1171	18.096	118.156	41.573	1.00 92.48	O
ATOM	8899	N	LYS	1172	16.199	117.145	40.870	1.00 91.21	N
ATOM	8900	CA	LYS	1172	16.004	117.935	39.684	1.00 91.21	C
ATOM	8901	CB	LYS	1172	14.752	117.493	38.905	1.00 91.21	C
ATOM	8902	CG	LYS	1172	14.756	116.051	38.399	1.00 91.21	C
ATOM	8903	CD	LYS	1172	13.349	115.551	38.057	1.00 91.21	C
ATOM	8904	CE	LYS	1172	12.458	116.617	37.414	1.00 91.21	C
ATOM	8905	NZ	LYS	1172	11.076	116.106	37.266	1.00 91.21	N
ATOM	8906	C	LYS	1172	15.719	119.368	40.022	1.00 91.21	C
ATOM	8907	O	LYS	1172	16.315	120.281	39.452	1.00 91.21	O
ATOM	8908	N	GLY	1173	14.803	119.595	40.985	1.00 35.19	N
ATOM	8909	CA	GLY	1173	14.278	120.912	41.213	1.00 35.19	C
ATOM	8910	C	GLY	1173	15.020	121.678	42.258	1.00 35.19	C
ATOM	8911	O	GLY	1173	16.169	121.394	42.595	1.00 35.19	O
ATOM	8912	N	THR	1174	14.322	122.701	42.792	1.00107.41	N
ATOM	8913	CA	THR	1174	14.868	123.616	43.745	1.00107.41	C
ATOM	8914	CB	THR	1174	13.944	124.762	44.053	1.00107.41	C
ATOM	8915	OG1	THR	1174	14.584	125.695	44.910	1.00107.41	O
ATOM	8916	CG2	THR	1174	12.665	124.212	44.710	1.00107.41	C
ATOM	8917	C	THR	1174	15.158	122.901	45.019	1.00107.41	C
ATOM	8918	O	THR	1174	14.429	122.007	45.445	1.00107.41	O
ATOM	8919	N	GLN	1175	16.269	123.308	45.657	1.00121.91	N
ATOM	8920	CA	GLN	1175	16.719	122.721	46.879	1.00121.91	C
ATOM	8921	CB	GLN	1175	18.249	122.793	47.009	1.00121.91	C
ATOM	8922	CG	GLN	1175	18.818	122.042	48.208	1.00121.91	C

ATOM	8923	CD	GLN	1175	19.031	120.596	47.792	1.00121.91	C
ATOM	8924	OE1	GLN	1175	18.627	119.668	48.491	1.00121.91	O
ATOM	8925	NE2	GLN	1175	19.696	120.395	46.623	1.00121.91	N
ATOM	8926	C	GLN	1175	16.143	123.545	47.986	1.00121.91	C
ATOM	8927	O	GLN	1175	16.281	124.767	48.001	1.00121.91	O
ATOM	8928	N	LEU	1176	15.469	122.888	48.948	1.00 49.59	N
ATOM	8929	CA	LEU	1176	14.874	123.613	50.030	1.00 49.59	C
ATOM	8930	CB	LEU	1176	13.461	123.114	50.392	1.00 49.59	C
ATOM	8931	CG	LEU	1176	12.437	123.241	49.245	1.00 49.59	C
ATOM	8932	CD1	LEU	1176	11.038	122.788	49.693	1.00 49.59	C
ATOM	8933	CD2	LEU	1176	12.440	124.651	48.632	1.00 49.59	C
ATOM	8934	C	LEU	1176	15.735	123.420	51.239	1.00 49.59	C
ATOM	8935	O	LEU	1176	16.371	122.381	51.407	1.00 49.59	O
ATOM	8936	N	SER	1177	15.771	124.439	52.119	1.00 32.43	N
ATOM	8937	CA	SER	1177	16.581	124.382	53.302	1.00 32.43	C
ATOM	8938	CB	SER	1177	16.669	125.728	54.042	1.00 32.43	C
ATOM	8939	OG	SER	1177	15.379	126.130	54.480	1.00 32.43	O
ATOM	8940	C	SER	1177	15.990	123.372	54.238	1.00 32.43	C
ATOM	8941	O	SER	1177	14.846	122.948	54.083	1.00 32.43	O
ATOM	8942	N	GLY	1178	16.781	122.958	55.246	1.00 24.33	N
ATOM	8943	CA	GLY	1178	16.372	121.937	56.170	1.00 24.33	C
ATOM	8944	C	GLY	1178	15.156	122.379	56.921	1.00 24.33	C
ATOM	8945	O	GLY	1178	14.267	121.576	57.201	1.00 24.33	O
ATOM	8946	N	GLY	1179	15.104	123.666	57.310	1.00 28.05	N
ATOM	8947	CA	GLY	1179	13.991	124.161	58.067	1.00 28.05	C
ATOM	8948	C	GLY	1179	12.737	124.124	57.247	1.00 28.05	C
ATOM	8949	O	GLY	1179	11.675	123.757	57.748	1.00 28.05	O
ATOM	8950	N	GLN	1180	12.820	124.521	55.963	1.00153.25	N
ATOM	8951	CA	GLN	1180	11.644	124.578	55.143	1.00153.25	C
ATOM	8952	CB	GLN	1180	11.761	125.480	53.896	1.00153.25	C
ATOM	8953	CG	GLN	1180	12.856	125.169	52.886	1.00153.25	C
ATOM	8954	CD	GLN	1180	12.912	126.389	51.972	1.00153.25	C
ATOM	8955	OE1	GLN	1180	13.470	126.346	50.877	1.00153.25	O
ATOM	8956	NE2	GLN	1180	12.313	127.517	52.439	1.00153.25	N
ATOM	8957	C	GLN	1180	11.108	123.209	54.858	1.00153.25	C
ATOM	8958	O	GLN	1180	9.909	123.039	54.645	1.00153.25	O
ATOM	8959	N	LYS	1181	11.982	122.190	54.827	1.00102.86	N
ATOM	8960	CA	LYS	1181	11.539	120.846	54.589	1.00102.86	C
ATOM	8961	CB	LYS	1181	12.713	119.860	54.504	1.00102.86	C
ATOM	8962	CG	LYS	1181	12.339	118.520	53.876	1.00102.86	C
ATOM	8963	CD	LYS	1181	13.552	117.689	53.453	1.00102.86	C
ATOM	8964	CE	LYS	1181	14.279	118.252	52.230	1.00102.86	C
ATOM	8965	NZ	LYS	1181	15.447	117.406	51.899	1.00102.86	N
ATOM	8966	C	LYS	1181	10.627	120.419	55.712	1.00102.86	C
ATOM	8967	O	LYS	1181	9.631	119.733	55.482	1.00102.86	O
ATOM	8968	N	GLN	1182	10.942	120.818	56.964	1.00128.23	N
ATOM	8969	CA	GLN	1182	10.159	120.449	58.117	1.00128.23	C
ATOM	8970	CB	GLN	1182	10.719	120.987	59.446	1.00128.23	C
ATOM	8971	CG	GLN	1182	11.854	120.158	60.036	1.00128.23	C
ATOM	8972	CD	GLN	1182	11.227	118.921	60.663	1.00128.23	C
ATOM	8973	OE1	GLN	1182	10.197	118.430	60.204	1.00128.23	O
ATOM	8974	NE2	GLN	1182	11.859	118.406	61.751	1.00128.23	N
ATOM	8975	C	GLN	1182	8.781	121.023	58.010	1.00128.23	C
ATOM	8976	O	GLN	1182	7.807	120.370	58.382	1.00128.23	O
ATOM	8977	N	ARG	1183	8.661	122.267	57.509	1.00203.02	N
ATOM	8978	CA	ARG	1183	7.374	122.899	57.420	1.00203.02	C
ATOM	8979	CB	ARG	1183	7.376	124.326	56.843	1.00203.02	C
ATOM	8980	CG	ARG	1183	7.697	125.440	57.840	1.00203.02	C
ATOM	8981	CD	ARG	1183	9.182	125.709	58.064	1.00203.02	C
ATOM	8982	NE	ARG	1183	9.779	126.055	56.743	1.00203.02	N
ATOM	8983	CZ	ARG	1183	9.588	127.284	56.179	1.00203.02	C
ATOM	8984	NH1	ARG	1183	8.653	128.140	56.680	1.00203.02	N
ATOM	8985	NH2	ARG	1183	10.331	127.660	55.099	1.00203.02	N
ATOM	8986	C	ARG	1183	6.493	122.106	56.511	1.00203.02	C
ATOM	8987	O	ARG	1183	5.277	122.075	56.695	1.00203.02	O
ATOM	8988	N	ILE	1184	7.076	121.500	55.462	1.00 41.26	N
ATOM	8989	CA	ILE	1184	6.303	120.704	54.550	1.00 41.26	C
ATOM	8990	CB	ILE	1184	7.115	120.194	53.396	1.00 41.26	C
ATOM	8991	CG1	ILE	1184	7.646	121.372	52.561	1.00 41.26	C
ATOM	8992	CG2	ILE	1184	6.244	119.209	52.599	1.00 41.26	C
ATOM	8993	CD1	ILE	1184	8.719	120.977	51.548	1.00 41.26	C
ATOM	8994	C	ILE	1184	5.757	119.514	55.286	1.00 41.26	C
ATOM	8995	O	ILE	1184	4.581	119.179	55.151	1.00 41.26	O
ATOM	8996	N	ALA	1185	6.599	118.850	56.102	1.00 45.89	N

ATOM	8997	CA	ALA	1185	6.185	117.692	56.846	1.00	45.89	C
ATOM	8998	CB	ALA	1185	7.320	117.081	57.686	1.00	45.89	C
ATOM	8999	C	ALA	1185	5.094	118.115	57.787	1.00	45.89	C
ATOM	9000	O	ALA	1185	4.186	117.347	58.093	1.00	45.89	O
ATOM	9001	N	ILE	1186	5.187	119.340	58.329	1.00	109.66	N
ATOM	9002	CA	ILE	1186	4.157	119.841	59.196	1.00	109.66	C
ATOM	9003	CB	ILE	1186	4.479	121.219	59.710	1.00	109.66	C
ATOM	9004	CG1	ILE	1186	5.835	121.249	60.442	1.00	109.66	C
ATOM	9005	CG2	ILE	1186	3.295	121.685	60.573	1.00	109.66	C
ATOM	9006	CD1	ILE	1186	5.899	120.389	61.700	1.00	109.66	C
ATOM	9007	C	ILE	1186	2.904	119.987	58.381	1.00	109.66	C
ATOM	9008	O	ILE	1186	1.823	119.557	58.783	1.00	109.66	O
ATOM	9009	N	ALA	1187	3.032	120.585	57.182	1.00	40.12	N
ATOM	9010	CA	ALA	1187	1.908	120.817	56.319	1.00	40.12	C
ATOM	9011	CB	ALA	1187	2.299	121.515	55.005	1.00	40.12	C
ATOM	9012	C	ALA	1187	1.291	119.500	55.958	1.00	40.12	C
ATOM	9013	O	ALA	1187	0.068	119.388	55.872	1.00	40.12	O
ATOM	9014	N	ARG	1188	2.117	118.460	55.732	1.00	168.02	N
ATOM	9015	CA	ARG	1188	1.563	117.198	55.322	1.00	168.02	C
ATOM	9016	CB	ARG	1188	2.604	116.106	54.993	1.00	168.02	C
ATOM	9017	CG	ARG	1188	3.358	115.565	56.205	1.00	168.02	C
ATOM	9018	CD	ARG	1188	4.805	115.145	55.944	1.00	168.02	C
ATOM	9019	NE	ARG	1188	4.832	114.011	54.982	1.00	168.02	N
ATOM	9020	CZ	ARG	1188	5.977	113.279	54.882	1.00	168.02	C
ATOM	9021	NH1	ARG	1188	7.012	113.517	55.739	1.00	168.02	N
ATOM	9022	NH2	ARG	1188	6.095	112.315	53.920	1.00	168.02	N
ATOM	9023	C	ARG	1188	0.690	116.681	56.432	1.00	168.02	C
ATOM	9024	O	ARG	1188	-0.359	116.090	56.181	1.00	168.02	O
ATOM	9025	N	ALA	1189	1.120	116.871	57.695	1.00	51.42	N
ATOM	9026	CA	ALA	1189	0.380	116.425	58.846	1.00	51.42	C
ATOM	9027	CB	ALA	1189	1.152	116.626	60.163	1.00	51.42	C
ATOM	9028	C	ALA	1189	-0.914	117.185	58.971	1.00	51.42	C
ATOM	9029	O	ALA	1189	-1.920	116.636	59.418	1.00	51.42	O
ATOM	9030	N	LEU	1190	-0.912	118.486	58.616	1.00	73.09	N
ATOM	9031	CA	LEU	1190	-2.059	119.341	58.790	1.00	73.09	C
ATOM	9032	CB	LEU	1190	-1.768	120.820	58.475	1.00	73.09	C
ATOM	9033	CG	LEU	1190	-0.813	121.493	59.479	1.00	73.09	C
ATOM	9034	CD1	LEU	1190	-0.566	122.965	59.111	1.00	73.09	C
ATOM	9035	CD2	LEU	1190	-1.312	121.322	60.923	1.00	73.09	C
ATOM	9036	C	LEU	1190	-3.234	118.930	57.941	1.00	73.09	C
ATOM	9037	O	LEU	1190	-4.378	119.067	58.369	1.00	73.09	O
ATOM	9038	N	VAL	1191	-3.002	118.445	56.706	1.00	115.81	N
ATOM	9039	CA	VAL	1191	-4.087	118.099	55.819	1.00	115.81	C
ATOM	9040	CB	VAL	1191	-3.641	117.667	54.448	1.00	115.81	C
ATOM	9041	CG1	VAL	1191	-3.111	118.893	53.689	1.00	115.81	C
ATOM	9042	CG2	VAL	1191	-2.591	116.553	54.599	1.00	115.81	C
ATOM	9043	C	VAL	1191	-4.919	116.998	56.401	1.00	115.81	C
ATOM	9044	O	VAL	1191	-6.136	116.964	56.233	1.00	115.81	O
ATOM	9045	N	ARG	1192	-4.277	116.060	57.108	1.00	157.20	N
ATOM	9046	CA	ARG	1192	-4.961	114.953	57.710	1.00	157.20	C
ATOM	9047	CB	ARG	1192	-4.012	114.038	58.502	1.00	157.20	C
ATOM	9048	CG	ARG	1192	-3.352	112.948	57.664	1.00	157.20	C
ATOM	9049	CD	ARG	1192	-4.135	111.641	57.785	1.00	157.20	C
ATOM	9050	NE	ARG	1192	-3.592	110.652	56.820	1.00	157.20	N
ATOM	9051	CZ	ARG	1192	-2.651	109.747	57.211	1.00	157.20	C
ATOM	9052	NH1	ARG	1192	-2.108	109.787	58.461	1.00	157.20	N
ATOM	9053	NH2	ARG	1192	-2.267	108.783	56.330	1.00	157.20	N
ATOM	9054	C	ARG	1192	-5.977	115.468	58.689	1.00	157.20	C
ATOM	9055	O	ARG	1192	-7.040	114.870	58.847	1.00	157.20	O
ATOM	9056	N	GLN	1193	-5.684	116.610	59.344	1.00	105.14	N
ATOM	9057	CA	GLN	1193	-6.486	117.169	60.404	1.00	105.14	C
ATOM	9058	CB	GLN	1193	-7.859	117.698	59.956	1.00	105.14	C
ATOM	9059	CG	GLN	1193	-7.761	119.001	59.164	1.00	105.14	C
ATOM	9060	CD	GLN	1193	-7.179	120.059	60.095	1.00	105.14	C
ATOM	9061	OE1	GLN	1193	-7.573	120.175	61.255	1.00	105.14	O
ATOM	9062	NE2	GLN	1193	-6.200	120.848	59.576	1.00	105.14	N
ATOM	9063	C	GLN	1193	-6.682	116.193	61.527	1.00	105.14	C
ATOM	9064	O	GLN	1193	-7.813	115.859	61.875	1.00	105.14	O
ATOM	9065	N	PRO	1194	-5.600	115.699	62.086	1.00	109.45	N
ATOM	9066	CA	PRO	1194	-5.613	114.755	63.169	1.00	109.45	C
ATOM	9067	CD	PRO	1194	-4.256	116.190	61.817	1.00	109.45	C
ATOM	9068	CB	PRO	1194	-4.187	114.224	63.236	1.00	109.45	C
ATOM	9069	CG	PRO	1194	-3.353	115.451	62.820	1.00	109.45	C
ATOM	9070	C	PRO	1194	-5.932	115.429	64.472	1.00	109.45	C

ATOM	9071	O	PRO	1194	-5.640	116.610	64.636	1.00109.45	O
ATOM	9072	N	HIS	1195	-6.550	114.690	65.404	1.00 97.82	N
ATOM	9073	CA	HIS	1195	-6.832	115.119	66.742	1.00 97.82	C
ATOM	9074	ND1	HIS	1195	-9.704	114.344	65.425	1.00 97.82	N
ATOM	9075	CG	HIS	1195	-9.285	114.852	66.634	1.00 97.82	C
ATOM	9076	CB	HIS	1195	-8.045	114.403	67.349	1.00 97.82	C
ATOM	9077	NE2	HIS	1195	-11.151	115.939	65.979	1.00 97.82	N
ATOM	9078	CD2	HIS	1195	-10.180	115.825	66.958	1.00 97.82	C
ATOM	9079	CE1	HIS	1195	-10.823	115.030	65.079	1.00 97.82	C
ATOM	9080	C	HIS	1195	-5.619	114.971	67.618	1.00 97.82	C
ATOM	9081	O	HIS	1195	-5.616	115.451	68.751	1.00 97.82	O
ATOM	9082	N	ILE	1196	-4.602	114.211	67.153	1.00142.17	N
ATOM	9083	CA	ILE	1196	-3.392	113.938	67.889	1.00142.17	C
ATOM	9084	CB	ILE	1196	-3.115	112.454	67.981	1.00142.17	C
ATOM	9085	CG1	ILE	1196	-4.273	111.632	68.586	1.00142.17	C
ATOM	9086	CG2	ILE	1196	-1.790	112.283	68.741	1.00142.17	C
ATOM	9087	CD1	ILE	1196	-4.450	111.739	70.098	1.00142.17	C
ATOM	9088	C	ILE	1196	-2.236	114.437	67.052	1.00142.17	C
ATOM	9089	O	ILE	1196	-2.262	114.308	65.830	1.00142.17	O
ATOM	9090	N	LEU	1197	-1.200	115.040	67.684	1.00193.86	N
ATOM	9091	CA	LEU	1197	0.003	115.440	66.984	1.00193.86	C
ATOM	9092	CB	LEU	1197	0.285	116.949	66.908	1.00193.86	C
ATOM	9093	CG	LEU	1197	-0.330	117.697	65.726	1.00193.86	C
ATOM	9094	CD1	LEU	1197	0.040	119.182	65.786	1.00193.86	C
ATOM	9095	CD2	LEU	1197	0.110	117.077	64.395	1.00193.86	C
ATOM	9096	C	LEU	1197	1.193	114.935	67.732	1.00193.86	C
ATOM	9097	O	LEU	1197	1.357	115.222	68.917	1.00193.86	O
ATOM	9098	N	LEU	1198	2.081	114.193	67.040	1.00114.20	N
ATOM	9099	CA	LEU	1198	3.276	113.718	67.678	1.00114.20	C
ATOM	9100	CB	LEU	1198	3.538	112.211	67.489	1.00114.20	C
ATOM	9101	CG	LEU	1198	2.452	111.295	68.085	1.00114.20	C
ATOM	9102	CD1	LEU	1198	1.124	111.442	67.329	1.00114.20	C
ATOM	9103	CD2	LEU	1198	2.927	109.836	68.161	1.00114.20	C
ATOM	9104	C	LEU	1198	4.430	114.432	67.050	1.00114.20	C
ATOM	9105	O	LEU	1198	4.603	114.398	65.832	1.00114.20	O
ATOM	9106	N	LEU	1199	5.251	115.117	67.874	1.00126.40	N
ATOM	9107	CA	LEU	1199	6.401	115.770	67.322	1.00126.40	C
ATOM	9108	CB	LEU	1199	6.442	117.283	67.590	1.00126.40	C
ATOM	9109	CG	LEU	1199	5.156	117.977	67.087	1.00126.40	C
ATOM	9110	CD1	LEU	1199	4.011	117.851	68.101	1.00126.40	C
ATOM	9111	CD2	LEU	1199	5.403	119.411	66.622	1.00126.40	C
ATOM	9112	C	LEU	1199	7.603	115.097	67.909	1.00126.40	C
ATOM	9113	O	LEU	1199	7.841	115.149	69.116	1.00126.40	O
ATOM	9114	N	ASP	1200	8.397	114.434	67.044		

ATOM	9145	CB	SER	1204	17.483	117.500	64.050	1.00	62.35	C
ATOM	9146	OG	SER	1204	16.857	116.823	65.130	1.00	62.35	O
ATOM	9147	C	SER	1204	17.991	119.665	63.028	1.00	62.35	C
ATOM	9148	O	SER	1204	18.265	119.041	62.003	1.00	62.35	O
ATOM	9149	N	ALA	1205	18.366	120.947	63.219	1.00	48.95	N
ATOM	9150	CA	ALA	1205	19.102	121.659	62.211	1.00	48.95	C
ATOM	9151	CB	ALA	1205	18.267	122.004	60.966	1.00	48.95	C
ATOM	9152	C	ALA	1205	19.567	122.957	62.798	1.00	48.95	C
ATOM	9153	O	ALA	1205	19.065	123.407	63.827	1.00	48.95	O
ATOM	9154	N	LEU	1206	20.613	123.534	62.170	1.00	180.83	N
ATOM	9155	CA	LEU	1206	21.246	124.785	62.499	1.00	180.83	C
ATOM	9156	CB	LEU	1206	22.652	124.932	61.889	1.00	180.83	C
ATOM	9157	CG	LEU	1206	23.710	124.033	62.549	1.00	180.83	C
ATOM	9158	CD1	LEU	1206	23.990	124.469	63.995	1.00	180.83	C
ATOM	9159	CD2	LEU	1206	23.320	122.555	62.453	1.00	180.83	C
ATOM	9160	C	LEU	1206	20.477	126.000	62.075	1.00	180.83	C
ATOM	9161	O	LEU	1206	20.585	127.036	62.729	1.00	180.83	O
ATOM	9162	N	ASP	1207	19.720	125.907	60.959	1.00	80.48	N
ATOM	9163	CA	ASP	1207	19.081	127.010	60.278	1.00	80.48	C
ATOM	9164	CB	ASP	1207	17.953	126.550	59.338	1.00	80.48	C
ATOM	9165	CG	ASP	1207	18.557	125.670	58.249	1.00	80.48	C
ATOM	9166	OD1	ASP	1207	19.496	124.889	58.561	1.00	80.48	O
ATOM	9167	OD2	ASP	1207	18.093	125.775	57.083	1.00	80.48	O
ATOM	9168	C	ASP	1207	18.491	127.986	61.248	1.00	80.48	C
ATOM	9169	O	ASP	1207	17.346	127.856	61.677	1.00	80.48	O
ATOM	9170	N	THR	1208	19.273	129.033	61.579	1.00	42.63	N
ATOM	9171	CA	THR	1208	18.869	130.007	62.549	1.00	42.63	C
ATOM	9172	CB	THR	1208	19.942	131.019	62.819	1.00	42.63	C
ATOM	9173	OG1	THR	1208	20.225	131.759	61.640	1.00	42.63	O
ATOM	9174	CG2	THR	1208	21.205	130.279	63.294	1.00	42.63	C
ATOM	9175	C	THR	1208	17.655	130.750	62.082	1.00	42.63	C
ATOM	9176	O	THR	1208	16.705	130.926	62.843	1.00	42.63	O
ATOM	9177	N	GLU	1209	17.652	131.234	60.825	1.00	51.13	N
ATOM	9178	CA	GLU	1209	16.521	131.997	60.381	1.00	51.13	C
ATOM	9179	CB	GLU	1209	16.762	132.706	59.041	1.00	51.13	C
ATOM	9180	CG	GLU	1209	15.593	133.597	58.619	1.00	51.13	C
ATOM	9181	CD	GLU	1209	16.051	134.419	57.427	1.00	51.13	C
ATOM	9182	OE1	GLU	1209	17.282	134.426	57.161	1.00	51.13	O
ATOM	9183	OE2	GLU	1209	15.182	135.052	56.770	1.00	51.13	O
ATOM	9184	C	GLU	1209	15.309	131.129	60.227	1.00	51.13	C
ATOM	9185	O	GLU	1209	14.237	131.460	60.726	1.00	51.13	O
ATOM	9186	N	SER	1210	15.437	129.975	59.546	1.00	103.40	N
ATOM	9187	CA	SER	1210	14.265	129.178	59.320	1.00	103.40	C
ATOM	9188	CB	SER	1210	14.403	128.135	58.189	1.00	103.40	C
ATOM	9189	OG	SER	1210	15.312	127.106	58.538	1.00	103.40	O
ATOM	9190	C	SER	1210	13.855	128.494	60.586	1.00	103.40	C
ATOM	9191	O	SER	1210	12.737	127.999	60.702	1.00	103.40	O
ATOM	9192	N	GLU	1211	14.748	128.445	61.585	1.00	128.52	N
ATOM	9193	CA	GLU	1211	14.426	127.753	62.798	1.00	128.52	C
ATOM	9194	CB	GLU	1211	15.592	127.765	63.800	1.00	128.52	C
ATOM	9195	CG	GLU	1211	15.296	126.991	65.083	1.00	128.52	C
ATOM	9196	CD	GLU	1211	15.254	125.512	64.732	1.00	128.52	C
ATOM	9197	OE1	GLU	1211	16.290	124.984	64.248	1.00	128.52	O
ATOM	9198	OE2	GLU	1211	14.178	124.892	64.940	1.00	128.52	O
ATOM	9199	C	GLU	1211	13.247	128.401	63.461	1.00	128.52	C
ATOM	9200	O	GLU	1211	12.309	127.716	63.865	1.00	128.52	O
ATOM	9201	N	LYS	1212	13.234	129.743	63.578	1.00	179.37	N
ATOM	9202	CA	LYS	1212	12.143	130.342	64.292	1.00	179.37	C
ATOM	9203	CB	LYS	1212	12.305	131.836	64.652	1.00	179.37	C
ATOM	9204	CG	LYS	1212	11.782	132.856	63.638	1.00	179.37	C
ATOM	9205	CD	LYS	1212	12.514	132.877	62.302	1.00	179.37	C
ATOM	9206	CE	LYS	1212	12.016	133.969	61.354	1.00	179.37	C
ATOM	9207	NZ	LYS	1212	10.603	133.721	60.994	1.00	179.37	N
ATOM	9208	C	LYS	1212	10.883	130.159	63.510	1.00	179.37	C
ATOM	9209	O	LYS	1212	9.805	130.054	64.091	1.00	179.37	O
ATOM	9210	N	VAL	1213	10.978	130.134	62.164	1.00	103.25	N
ATOM	9211	CA	VAL	1213	9.784	130.004	61.380	1.00	103.25	C
ATOM	9212	CB	VAL	1213	9.985	130.130	59.892	1.00	103.25	C
ATOM	9213	CG1	VAL	1213	10.528	128.817	59.313	1.00	103.25	C
ATOM	9214	CG2	VAL	1213	8.649	130.563	59.274	1.00	103.25	C
ATOM	9215	C	VAL	1213	9.139	128.677	61.662	1.00	103.25	C
ATOM	9216	O	VAL	1213	7.914	128.597	61.744	1.00	103.25	O
ATOM	9217	N	VAL	1214	9.929	127.590	61.810	1.00	124.05	N
ATOM	9218	CA	VAL	1214	9.314	126.312	62.067	1.00	124.05	C

ATOM	9219	CB	VAL	1214	10.228	125.114	62.033	1.00124.05	C
ATOM	9220	CG1	VAL	1214	10.732	124.913	60.602	1.00124.05	C
ATOM	9221	CG2	VAL	1214	11.347	125.281	63.063	1.00124.05	C
ATOM	9222	C	VAL	1214	8.620	126.323	63.393	1.00124.05	C
ATOM	9223	O	VAL	1214	7.523	125.784	63.523	1.00124.05	O
ATOM	9224	N	GLN	1215	9.227	126.956	64.413	1.00 50.24	N
ATOM	9225	CA	GLN	1215	8.645	126.953	65.724	1.00 50.24	C
ATOM	9226	CB	GLN	1215	9.497	127.695	66.768	1.00 50.24	C
ATOM	9227	CG	GLN	1215	10.797	126.964	67.109	1.00 50.24	C
ATOM	9228	CD	GLN	1215	10.435	125.718	67.906	1.00 50.24	C
ATOM	9229	OE1	GLN	1215	9.306	125.567	68.370	1.00 50.24	O
ATOM	9230	NE2	GLN	1215	11.421	124.797	68.074	1.00 50.24	N
ATOM	9231	C	GLN	1215	7.310	127.621	65.656	1.00 50.24	C
ATOM	9232	O	GLN	1215	6.384	127.228	66.364	1.00 50.24	O
ATOM	9233	N	GLU	1216	7.178	128.666	64.819	1.00 31.38	N
ATOM	9234	CA	GLU	1216	5.922	129.349	64.702	1.00 31.38	C
ATOM	9235	CB	GLU	1216	6.002	130.560	63.757	1.00 31.38	C
ATOM	9236	CG	GLU	1216	6.885	131.684	64.306	1.00 31.38	C
ATOM	9237	CD	GLU	1216	6.903	132.823	63.297	1.00 31.38	C
ATOM	9238	OE1	GLU	1216	6.406	132.614	62.158	1.00 31.38	O
ATOM	9239	OE2	GLU	1216	7.419	133.917	63.651	1.00 31.38	O
ATOM	9240	C	GLU	1216	4.902	128.392	64.158	1.00 31.38	C
ATOM	9241	O	GLU	1216	3.772	128.341	64.638	1.00 31.38	O
ATOM	9242	N	ALA	1217	5.280	127.606	63.132	1.00 38.29	N
ATOM	9243	CA	ALA	1217	4.382	126.658	62.532	1.00 38.29	C
ATOM	9244	CB	ALA	1217	4.992	125.954	61.306	1.00 38.29	C
ATOM	9245	C	ALA	1217	4.039	125.594	63.529	1.00 38.29	C
ATOM	9246	O	ALA	1217	2.896	125.146	63.595	1.00 38.29	O
ATOM	9247	N	LEU	1218	5.036	125.145	64.318	1.00 64.14	N
ATOM	9248	CA	LEU	1218	4.847	124.090	65.276	1.00 64.14	C
ATOM	9249	CB	LEU	1218	6.161	123.682	65.966	1.00 64.14	C
ATOM	9250	CG	LEU	1218	7.178	123.017	65.017	1.00 64.14	C
ATOM	9251	CD1	LEU	1218	8.469	122.636	65.759	1.00 64.14	C
ATOM	9252	CD2	LEU	1218	6.554	121.816	64.289	1.00 64.14	C
ATOM	9253	C	LEU	1218	3.889	124.531	66.340	1.00 64.14	C
ATOM	9254	O	LEU	1218	2.981	123.790	66.709	1.00 64.14	O
ATOM	9255	N	ASP	1219	4.058	125.763	66.854	1.00 39.29	N
ATOM	9256	CA	ASP	1219	3.212	126.259	67.901	1.00 39.29	C
ATOM	9257	CB	ASP	1219	3.632	127.652	68.399	1.00 39.29	C
ATOM	9258	CG	ASP	1219	4.931	127.496	69.175	1.00 39.29	C
ATOM	9259	OD1	ASP	1219	5.264	126.337	69.543	1.00 39.29	O
ATOM	9260	OD2	ASP	1219	5.606	128.532	69.416	1.00 39.29	O
ATOM	9261	C	ASP	1219	1.813	126.365	67.375	1.00 39.29	C
ATOM	9262	O	ASP	1219	0.850	126.142	68.105	1.00 39.29	O
ATOM	9263	N	LYS	1220	1.669	126.724	66.087	1.00136.78	N
ATOM	9264	CA	LYS	1220	0.389	126.914	65.462	1.00136.78	C
ATOM	9265	CB	LYS	1220	0.536	127.311	63.982	1.00136.78	C
ATOM	9266	CG	LYS	1220	-0.761	127.759	63.304	1.00136.78	C
ATOM	9267	CD	LYS	1220	-1.128	129.214	63.589	1.00136.78	C
ATOM	9268	CE	LYS	1220	-0.491	130.192	62.597	1.00136.78	C
ATOM	9269	NZ	LYS	1220	0.979	130.022	62.586	1.00136.78	N
ATOM	9270	C	LYS	1220	-0.385	125.627	65.456	1.00136.78	C
ATOM	9271	O	LYS	1220	-1.577	125.616	65.752	1.00136.78	O
ATOM	9272	N	ALA	1221	0.279	124.510	65.097	1.00 58.07	N
ATOM	9273	CA	ALA	1221	-0.348	123.222	64.947	1.00 58.07	C
ATOM	9274	CB	ALA	1221	0.602	122.161	64.364	1.00 58.07	C
ATOM	9275	C	ALA	1221	-0.863	122.686	66.250	1.00 58.07	C
ATOM	9276	O	ALA	1221	-1.920	122.059	66.295	1.00 58.07	O
ATOM	9277	N	ARG	1222	-0.092	122.887	67.332	1.00153.53	N
ATOM	9278	CA	ARG	1222	-0.341	122.358	68.647	1.00153.53	C
ATOM	9279	CB	ARG	1222	0.912	122.359	69.545	1.00153.53	C
ATOM	9280	CG	ARG	1222	1.871	121.215	69.197	1.00153.53	C
ATOM	9281	CD	ARG	1222	2.942	120.932	70.255	1.00153.53	C
ATOM	9282	NE	ARG	1222	4.169	121.693	69.894	1.00153.53	N
ATOM	9283	CZ	ARG	1222	4.331	122.999	70.254	1.00153.53	C
ATOM	9284	NH1	ARG	1222	3.350	123.660	70.934	1.00153.53	N
ATOM	9285	NH2	ARG	1222	5.487	123.642	69.923	1.00153.53	N
ATOM	9286	C	ARG	1222	-1.481	123.010	69.376	1.00153.53	C
ATOM	9287	O	ARG	1222	-2.004	122.447	70.335	1.00153.53	O
ATOM	9288	N	GLU	1223	-1.890	124.223	68.983	1.00120.18	N
ATOM	9289	CA	GLU	1223	-2.837	124.958	69.775	1.00120.18	C
ATOM	9290	CB	GLU	1223	-3.209	126.268	69.068	1.00120.18	C
ATOM	9291	CG	GLU	1223	-4.209	127.120	69.831	1.00120.18	C
ATOM	9292	CD	GLU	1223	-4.369	128.425	69.065	1.00120.18	C

ATOM	9293	OE1	GLU	1223	-3.630	128.617	68.062	1.00120.18	O
ATOM	9294	OE2	GLU	1223	-5.230	129.249	69.473	1.00120.18	O
ATOM	9295	C	GLU	1223	-4.110	124.186	70.043	1.00120.18	C
ATOM	9296	O	GLU	1223	-4.548	124.102	71.189	1.00120.18	O
ATOM	9297	N	GLY	1224	-4.761	123.670	68.986	1.00 94.97	N
ATOM	9298	CA	GLY	1224	-6.000	122.927	68.949	1.00 94.97	C
ATOM	9299	C	GLY	1224	-5.941	121.459	69.265	1.00 94.97	C
ATOM	9300	O	GLY	1224	-6.990	120.865	69.506	1.00 94.97	O
ATOM	9301	N	ARG	1225	-4.773	120.796	69.149	1.00119.26	N
ATOM	9302	CA	ARG	1225	-4.786	119.355	69.162	1.00119.26	C
ATOM	9303	CB	ARG	1225	-4.191	118.783	67.867	1.00119.26	C
ATOM	9304	CG	ARG	1225	-5.044	119.082	66.632	1.00119.26	C
ATOM	9305	CD	ARG	1225	-4.298	118.893	65.309	1.00119.26	C
ATOM	9306	NE	ARG	1225	-3.596	120.164	64.983	1.00119.26	N
ATOM	9307	CZ	ARG	1225	-4.159	121.032	64.091	1.00119.26	C
ATOM	9308	NH1	ARG	1225	-5.336	120.712	63.476	1.00119.26	N
ATOM	9309	NH2	ARG	1225	-3.541	122.215	63.808	1.00119.26	N
ATOM	9310	C	ARG	1225	-4.008	118.773	70.302	1.00119.26	C
ATOM	9311	O	ARG	1225	-3.184	119.435	70.929	1.00119.26	O
ATOM	9312	N	THR	1226	-4.281	117.482	70.602	1.00122.08	N
ATOM	9313	CA	THR	1226	-3.565	116.825	71.653	1.00122.08	C
ATOM	9314	CB	THR	1226	-4.137	115.495	72.052	1.00122.08	C
ATOM	9315	OG1	THR	1226	-3.619	115.098	73.312	1.00122.08	O
ATOM	9316	CG2	THR	1226	-3.764	114.456	70.992	1.00122.08	C
ATOM	9317	C	THR	1226	-2.168	116.634	71.147	1.00122.08	C
ATOM	9318	O	THR	1226	-1.960	116.258	69.991	1.00122.08	O
ATOM	9319	N	CYS	1227	-1.161	116.903	72.004	1.00 69.73	N
ATOM	9320	CA	CYS	1227	0.177	116.864	71.497	1.00 69.73	C
ATOM	9321	CB	CYS	1227	0.756	118.267	71.268	1.00 69.73	C
ATOM	9322	SG	CYS	1227	-0.266	119.206	70.094	1.00 69.73	S
ATOM	9323	C	CYS	1227	1.083	116.151	72.442	1.00 69.73	C
ATOM	9324	O	CYS	1227	1.018	116.330	73.658	1.00 69.73	O
ATOM	9325	N	ILE	1228	1.951	115.293	71.875	1.00127.07	N
ATOM	9326	CA	ILE	1228	2.947	114.643	72.666	1.00127.07	C
ATOM	9327	CB	ILE	1228	2.759	113.150	72.741	1.00127.07	C
ATOM	9328	CG1	ILE	1228	3.209	112.623	74.109	1.00127.07	C
ATOM	9329	CG2	ILE	1228	3.531	112.484	71.595	1.00127.07	C
ATOM	9330	CD1	ILE	1228	2.642	111.235	74.414	1.00127.07	C
ATOM	9331	C	ILE	1228	4.231	115.020	71.986	1.00127.07	C
ATOM	9332	O	ILE	1228	4.342	114.959	70.760	1.00127.07	O
ATOM	9333	N	VAL	1229	5.229	115.477	72.765	1.00124.10	N
ATOM	9334	CA	VAL	1229	6.401	115.992	72.127	1.00124.10	C
ATOM	9335	CB	VAL	1229	6.519	117.473	72.352	1.00124.10	C
ATOM	9336	CG1	VAL	1229	7.310	117.736	73.641	1.00124.10	C
ATOM	9337	CG2	VAL	1229	7.032	118.142	71.077	1.00124.10	C
ATOM	9338	C	VAL	1229	7.599	115.304	72.708	1.00124.10	C
ATOM	9339	O	VAL	1229	7.656	115.027	73.906	1.00124.10	O
ATOM	9340	N	ILE	1230	8.589	114.984	71.850	1.00 99.35	N
ATOM	9341	CA	ILE	1230	9.804	114.395	72.330	1.00 99.35	C
ATOM	9342	CB	ILE	1230	10.238	113.239	71.490	1.00 99.35	C
ATOM	9343	CG1	ILE	1230	9.172	112.149	71.698	1.00 99.35	C
ATOM	9344	CG2	ILE	1230	11.666	112.813	71.874	1.00 99.35	C
ATOM	9345	CD1	ILE	1230	9.197	111.011	70.695	1.00 99.35	C
ATOM	9346	C	ILE	1230	10.786	115.513	72.332	1.00 99.35	C
ATOM	9347	O	ILE	1230	11.292	115.929	71.290	1.00 99.35	O
ATOM	9348	N	ALA	1231	11.081	116.020	73.546	1.00 87.25	N
ATOM	9349	CA	ALA	1231	11.801	117.255	73.637	1.00 87.25	C
ATOM	9350	CB	ALA	1231	11.229	118.202	74.705	1.00 87.25	C
ATOM	9351	C	ALA	1231	13.244	117.070	73.966	1.00 87.25	C
ATOM	9352	O	ALA	1231	13.608	116.407	74.939	1.00 87.25	O
ATOM	9353	N	HIS	1232	14.095	117.515	73.022	1.00120.17	N
ATOM	9354	CA	HIS	1232	15.495	117.733	73.218	1.00120.17	C
ATOM	9355	ND1	HIS	1232	15.226	115.111	71.381	1.00120.17	N
ATOM	9356	CG	HIS	1232	16.304	115.819	71.864	1.00120.17	C
ATOM	9357	CB	HIS	1232	16.329	117.310	72.004	1.00120.17	C
ATOM	9358	NE2	HIS	1232	16.778	113.614	71.921	1.00120.17	N
ATOM	9359	CD2	HIS	1232	17.243	114.889	72.188	1.00120.17	C
ATOM	9360	CE1	HIS	1232	15.563	113.798	71.438	1.00120.17	C
ATOM	9361	C	HIS	1232	15.790	119.173	73.555	1.00120.17	C
ATOM	9362	O	HIS	1232	16.716	119.459	74.310	1.00120.17	O
ATOM	9363	N	ARG	1233	15.013	120.122	72.974	1.00133.94	N
ATOM	9364	CA	ARG	1233	15.273	121.536	73.101	1.00133.94	C
ATOM	9365	CB	ARG	1233	14.689	122.363	71.945	1.00133.94	C
ATOM	9366	CG	ARG	1233	15.287	121.996	70.586	1.00133.94	C

ATOM	9367	CD	ARG	1233	14.740	122.837	69.432	1.00133.94	C
ATOM	9368	NE	ARG	1233	15.323	124.200	69.568	1.00133.94	N
ATOM	9369	CZ	ARG	1233	15.034	125.161	68.644	1.00133.94	C
ATOM	9370	NH1	ARG	1233	14.201	124.874	67.603	1.00133.94	N
ATOM	9371	NH2	ARG	1233	15.581	126.406	68.760	1.00133.94	N
ATOM	9372	C	ARG	1233	14.664	122.035	74.373	1.00133.94	C
ATOM	9373	O	ARG	1233	13.483	121.835	74.646	1.00133.94	O
ATOM	9374	N	LEU	1234	15.487	122.720	75.184	1.00118.38	N
ATOM	9375	CA	LEU	1234	15.111	123.237	76.466	1.00118.38	C
ATOM	9376	CB	LEU	1234	16.307	123.788	77.263	1.00118.38	C
ATOM	9377	CG	LEU	1234	17.267	122.708	77.808	1.00118.38	C
ATOM	9378	CD1	LEU	1234	16.606	121.891	78.926	1.00118.38	C
ATOM	9379	CD2	LEU	1234	17.836	121.819	76.693	1.00118.38	C
ATOM	9380	C	LEU	1234	14.112	124.337	76.327	1.00118.38	C
ATOM	9381	O	LEU	1234	13.295	124.534	77.221	1.00118.38	O
ATOM	9382	N	SER	1235	14.193	125.114	75.231	1.00 99.07	N
ATOM	9383	CA	SER	1235	13.347	126.254	75.005	1.00 99.07	C
ATOM	9384	CB	SER	1235	13.720	126.990	73.708	1.00 99.07	C
ATOM	9385	OG	SER	1235	15.088	127.364	73.739	1.00 99.07	O
ATOM	9386	C	SER	1235	11.897	125.863	74.856	1.00 99.07	C
ATOM	9387	O	SER	1235	11.019	126.489	75.446	1.00 99.07	O
ATOM	9388	N	THR	1236	11.609	124.825	74.046	1.00 57.34	N
ATOM	9389	CA	THR	1236	10.265	124.406	73.719	1.00 57.34	C
ATOM	9390	CB	THR	1236	10.247	123.343	72.660	1.00 57.34	C
ATOM	9391	OG1	THR	1236	10.961	122.200	73.106	1.00 57.34	O
ATOM	9392	CG2	THR	1236	10.889	123.907	71.381	1.00 57.34	C
ATOM	9393	C	THR	1236	9.533	123.867	74.916	1.00 57.34	C
ATOM	9394	O	THR	1236	8.330	124.076	75.061	1.00 57.34	O
ATOM	9395	N	ILE	1237	10.247	123.145	75.795	1.00171.50	N
ATOM	9396	CA	ILE	1237	9.703	122.469	76.947	1.00171.50	C
ATOM	9397	CB	ILE	1237	10.754	121.713	77.719	1.00171.50	C
ATOM	9398	CG1	ILE	1237	11.136	120.381	77.061	1.00171.50	C
ATOM	9399	CG2	ILE	1237	10.250	121.551	79.157	1.00171.50	C
ATOM	9400	CD1	ILE	1237	10.049	119.314	77.180	1.00171.50	C
ATOM	9401	C	ILE	1237	9.100	123.412	77.940	1.00171.50	C
ATOM	9402	O	ILE	1237	8.076	123.103	78.550	1.00171.50	O
ATOM	9403	N	GLN	1238	9.715	124.586	78.145	1.00149.34	N
ATOM	9404	CA	GLN	1238	9.291	125.403	79.239	1.00149.34	C
ATOM	9405	CB	GLN	1238	10.215	126.602	79.524	1.00149.34	C
ATOM	9406	CG	GLN	1238	10.370	127.636	78.418	1.00149.34	C
ATOM	9407	CD	GLN	1238	11.348	128.667	78.965	1.00149.34	C
ATOM	9408	OE1	GLN	1238	10.994	129.824	79.182	1.00149.34	O
ATOM	9409	NE2	GLN	1238	12.613	128.230	79.214	1.00149.34	N
ATOM	9410	C	GLN	1238	7.846	125.813	79.144	1.00149.34	C
ATOM	9411	O	GLN	1238	7.192	125.941	80.178	1.00149.34	O
ATOM	9412	N	ASN	1239	7.279	126.046	77.944	1.00157.58	N
ATOM	9413	CA	ASN	1239	5.901	126.462	77.965	1.00157.58	C
ATOM	9414	CB	ASN	1239	5.610	127.558	76.926	1.00157.58	C
ATOM	9415	CG	ASN	1239	5.959	127.000	75.555	1.00157.58	C
ATOM	9416	OD1	ASN	1239	5.184	126.256	74.958	1.00157.58	O
ATOM	9417	ND2	ASN	1239	7.163	127.369	75.040	1.00157.58	N
ATOM	9418	C	ASN	1239	4.962	125.311	77.698	1.00157.58	C
ATOM	9419	O	ASN	1239	3.849	125.521	77.219	1.00157.58	O
ATOM	9420	N	ALA	1240	5.349	124.066	78.041	1.00 49.04	N
ATOM	9421	CA	ALA	1240	4.476	122.938	77.842	1.00 49.04	C
ATOM	9422	CB	ALA	1240	5.227	121.605	77.679	1.00 49.04	C
ATOM	9423	C	ALA	1240	3.579	122.815	79.037	1.00 49.04	C
ATOM	9424	O	ALA	1240	3.914	123.273	80.128	1.00 49.04	O
ATOM	9425	N	ASP	1241	2.391	122.206	78.841	1.00 61.18	N
ATOM	9426	CA	ASP	1241	1.440	122.031	79.903	1.00 61.18	C
ATOM	9427	CB	ASP	1241	0.086	121.510	79.392	1.00 61.18	C
ATOM	9428	CG	ASP	1241	-0.493	122.600	78.499	1.00 61.18	C
ATOM	9429	OD1	ASP	1241	0.243	123.585	78.225	1.00 61.18	O
ATOM	9430	OD2	ASP	1241	-1.673	122.466	78.080	1.00 61.18	O
ATOM	9431	C	ASP	1241	1.971	121.056	80.914	1.00 61.18	C
ATOM	9432	O	ASP	1241	1.839	121.281	82.115	1.00 61.18	O
ATOM	9433	N	LEU	1242	2.567	119.933	80.453	1.00194.63	N
ATOM	9434	CA	LEU	1242	3.127	118.946	81.343	1.00194.63	C
ATOM	9435	CB	LEU	1242	2.351	117.629	81.497	1.00194.63	C
ATOM	9436	CG	LEU	1242	1.196	117.638	82.494	1.00194.63	C
ATOM	9437	CD1	LEU	1242	0.689	116.208	82.724	1.00194.63	C
ATOM	9438	CD2	LEU	1242	1.596	118.327	83.804	1.00194.63	C
ATOM	9439	C	LEU	1242	4.417	118.454	80.792	1.00194.63	C
ATOM	9440	O	LEU	1242	4.635	118.448	79.582	1.00194.63	O

ATOM	9441	N	ILE	1243	5.298	117.998	81.705	1.00108.82	N
ATOM	9442	CA	ILE	1243	6.547	117.413	81.322	1.00108.82	C
ATOM	9443	CB	ILE	1243	7.764	118.225	81.689	1.00108.82	C
ATOM	9444	CG1	ILE	1243	7.775	119.577	80.954	1.00108.82	C
ATOM	9445	CG2	ILE	1243	9.010	117.374	81.387	1.00108.82	C
ATOM	9446	CD1	ILE	1243	6.717	120.560	81.446	1.00108.82	C
ATOM	9447	C	ILE	1243	6.659	116.100	82.035	1.00108.82	C
ATOM	9448	O	ILE	1243	6.144	115.930	83.140	1.00108.82	O
ATOM	9449	N	VAL	1244	7.304	115.114	81.376	1.00 55.50	N
ATOM	9450	CA	VAL	1244	7.534	113.825	81.962	1.00 55.50	C
ATOM	9451	CB	VAL	1244	6.789	112.722	81.267	1.00 55.50	C
ATOM	9452	CG1	VAL	1244	7.212	111.375	81.875	1.00 55.50	C
ATOM	9453	CG2	VAL	1244	5.282	113.010	81.381	1.00 55.50	C
ATOM	9454	C	VAL	1244	8.999	113.528	81.838	1.00 55.50	C
ATOM	9455	O	VAL	1244	9.564	113.555	80.743	1.00 55.50	O
ATOM	9456	N	VAL	1245	9.653	113.233	82.980	1.00 64.37	N
ATOM	9457	CA	VAL	1245	11.048	112.889	82.990	1.00 64.37	C
ATOM	9458	CB	VAL	1245	11.785	113.448	84.175	1.00 64.37	C
ATOM	9459	CG1	VAL	1245	13.239	112.948	84.139	1.00 64.37	C
ATOM	9460	CG2	VAL	1245	11.657	114.980	84.152	1.00 64.37	C
ATOM	9461	C	VAL	1245	11.105	111.397	83.070	1.00 64.37	C
ATOM	9462	O	VAL	1245	10.542	110.782	83.975	1.00 64.37	O
ATOM	9463	N	PHE	1246	11.823	110.785	82.112	1.00167.04	N
ATOM	9464	CA	PHE	1246	11.840	109.355	81.937	1.00167.04	C
ATOM	9465	CB	PHE	1246	11.656	109.071	80.437	1.00167.04	C
ATOM	9466	CG	PHE	1246	10.929	107.808	80.173	1.00167.04	C
ATOM	9467	CD1	PHE	1246	11.549	106.588	80.203	1.00167.04	C
ATOM	9468	CD2	PHE	1246	9.590	107.868	79.880	1.00167.04	C
ATOM	9469	CE1	PHE	1246	10.845	105.434	79.948	1.00167.04	C
ATOM	9470	CE2	PHE	1246	8.887	106.722	79.622	1.00167.04	C
ATOM	9471	CZ	PHE	1246	9.506	105.498	79.656	1.00167.04	C
ATOM	9472	C	PHE	1246	13.228	108.885	82.288	1.00167.04	C
ATOM	9473	O	PHE	1246	14.213	109.456	81.829	1.00167.04	O
ATOM	9474	N	GLN	1247	13.351	107.828	83.120	1.00162.19	N
ATOM	9475	CA	GLN	1247	14.640	107.297	83.483	1.00162.19	C
ATOM	9476	CB	GLN	1247	15.063	107.770	84.884	1.00162.19	C
ATOM	9477	CG	GLN	1247	16.418	107.261	85.366	1.00162.19	C
ATOM	9478	CD	GLN	1247	16.645	107.825	86.763	1.00162.19	C
ATOM	9479	OE1	GLN	1247	17.657	107.542	87.403	1.00162.19	O
ATOM	9480	NE2	GLN	1247	15.675	108.641	87.256	1.00162.19	N
ATOM	9481	C	GLN	1247	14.450	105.831	83.558	1.00162.19	C
ATOM	9482	O	GLN	1247	13.631	105.361	84.345	1.00162.19	O
ATOM	9483	N	ASN	1248	15.209	105.059	82.754	1.00197.83	N
ATOM	9484	CA	ASN	1248	14.853	103.681	82.682	1.00197.83	C
ATOM	9485	CB	ASN	1248	14.872	102.936	84.032	1.00197.83	C
ATOM	9486	CG	ASN	1248	16.327	102.713	84.427	1.00197.83	C
ATOM	9487	OD1	ASN	1248	17.190	102.521	83.572	1.00197.83	O
ATOM	9488	ND2	ASN	1248	16.611	102.730	85.757	1.00197.83	N
ATOM	9489	C	ASN	1248	13.456	103.761	82.142	1.00197.83	C
ATOM	9490	O	ASN	1248	13.003	104.719	81.557	1.00197.83	O
ATOM	9491	N	GLY	1249	12.665	102.748	82.253	1.00173.06	N
ATOM	9492	CA	GLY	1249	11.336	102.846	81.740	1.00173.06	C
ATOM	9493	C	GLY	1249	10.437	103.724	82.565	1.00173.06	C
ATOM	9494	O	GLY	1249	9.279	103.893	82.187	1.00173.06	O
ATOM	9495	N	ARG	1250	10.870	104.164	83.771	1.00179.05	N
ATOM	9496	CA	ARG	1250	9.962	104.815	84.684	1.00179.05	C
ATOM	9497	CB	ARG	1250	10.156	104.343	86.134	1.00179.05	C
ATOM	9498	CG	ARG	1250	9.887	102.844	86.285	1.00179.05	C
ATOM	9499	CD	ARG	1250	8.473	102.501	86.761	1.00179.05	C
ATOM	9500	NE	ARG	1250	8.443	102.613	88.249	1.00179.05	N
ATOM	9501	CZ	ARG	1250	8.177	103.804	88.861	1.00179.05	C
ATOM	9502	NH1	ARG	1250	7.954	104.925	88.116	1.00179.05	N
ATOM	9503	NH2	ARG	1250	8.130	103.870	90.224	1.00179.05	N
ATOM	9504	C	ARG	1250	10.016	106.316	84.676	1.00179.05	C
ATOM	9505	O	ARG	1250	11.014	106.937	84.311	1.00179.05	O
ATOM	9506	N	VAL	1251	8.881	106.930	85.096	1.00 53.47	N
ATOM	9507	CA	VAL	1251	8.751	108.360	85.181	1.00 53.47	C
ATOM	9508	CB	VAL	1251	7.337	108.839	85.010	1.00 53.47	C
ATOM	9509	CG1	VAL	1251	7.295	110.357	85.254	1.00 53.47	C
ATOM	9510	CG2	VAL	1251	6.835	108.415	83.619	1.00 53.47	C
ATOM	9511	C	VAL	1251	9.180	108.772	86.555	1.00 53.47	C
ATOM	9512	O	VAL	1251	8.534	108.437	87.547	1.00 53.47	O
ATOM	9513	N	LYS	1252	10.336	109.460	86.645	1.00 99.52	N
ATOM	9514	CA	LYS	1252	10.835	109.917	87.909	1.00 99.52	C

ATOM	9515	CB	LYS	1252	12.342	110.217	87.902	1.00	99.52	C
ATOM	9516	CG	LYS	1252	12.911	110.286	89.320	1.00	99.52	C
ATOM	9517	CD	LYS	1252	14.426	110.108	89.388	1.00	99.52	C
ATOM	9518	CE	LYS	1252	14.970	110.010	90.814	1.00	99.52	C
ATOM	9519	NZ	LYS	1252	14.786	111.298	91.515	1.00	99.52	N
ATOM	9520	C	LYS	1252	10.098	111.129	88.409	1.00	99.52	C
ATOM	9521	O	LYS	1252	9.808	111.234	89.600	1.00	99.52	O
ATOM	9522	N	GLU	1253	9.781	112.092	87.514	1.00	141.11	N
ATOM	9523	CA	GLU	1253	9.155	113.312	87.959	1.00	141.11	C
ATOM	9524	CB	GLU	1253	10.141	114.479	88.125	1.00	141.11	C
ATOM	9525	CG	GLU	1253	11.270	114.262	89.124	1.00	141.11	C
ATOM	9526	CD	GLU	1253	12.224	115.440	88.984	1.00	141.11	C
ATOM	9527	OE1	GLU	1253	12.522	115.830	87.823	1.00	141.11	O
ATOM	9528	OE2	GLU	1253	12.672	115.962	90.039	1.00	141.11	O
ATOM	9529	C	GLU	1253	8.274	113.814	86.861	1.00	141.11	C
ATOM	9530	O	GLU	1253	8.499	113.514	85.691	1.00	141.11	O
ATOM	9531	N	HIS	1254	7.247	114.613	87.219	1.00	51.78	N
ATOM	9532	CA	HIS	1254	6.413	115.211	86.216	1.00	51.78	C
ATOM	9533	ND1	HIS	1254	4.265	113.393	87.981	1.00	51.78	N
ATOM	9534	CG	HIS	1254	4.171	114.263	86.919	1.00	51.78	C
ATOM	9535	CB	HIS	1254	5.188	114.366	85.822	1.00	51.78	C
ATOM	9536	NE2	HIS	1254	2.379	114.537	88.264	1.00	51.78	N
ATOM	9537	CD2	HIS	1254	3.012	114.954	87.106	1.00	51.78	C
ATOM	9538	CE1	HIS	1254	3.169	113.599	88.755	1.00	51.78	C
ATOM	9539	C	HIS	1254	5.886	116.495	86.776	1.00	51.78	C
ATOM	9540	O	HIS	1254	5.790	116.662	87.992	1.00	51.78	O
ATOM	9541	N	GLY	1255	5.540	117.451	85.890	1.00	26.16	N
ATOM	9542	CA	GLY	1255	4.993	118.691	86.357	1.00	26.16	C
ATOM	9543	C	GLY	1255	5.323	119.758	85.365	1.00	26.16	C
ATOM	9544	O	GLY	1255	5.984	119.509	84.359	1.00	26.16	O
ATOM	9545	N	THR	1256	4.882	120.998	85.651	1.00	36.78	N
ATOM	9546	CA	THR	1256	5.103	122.091	84.753	1.00	36.78	C
ATOM	9547	CB	THR	1256	4.277	123.306	85.065	1.00	36.78	C
ATOM	9548	OG1	THR	1256	4.599	123.804	86.355	1.00	36.78	O
ATOM	9549	CG2	THR	1256	2.790	122.920	85.000	1.00	36.78	C
ATOM	9550	C	THR	1256	6.545	122.482	84.837	1.00	36.78	C
ATOM	9551	O	THR	1256	7.310	121.934	85.628	1.00	36.78	O
ATOM	9552	N	HIS	1257	6.946	123.440	83.981	1.00	76.10	N
ATOM	9553	CA	HIS	1257	8.302	123.902	83.880	1.00	76.10	C
ATOM	9554	ND1	HIS	1257	10.816	125.074	81.892	1.00	76.10	N
ATOM	9555	CG	HIS	1257	9.804	125.595	82.667	1.00	76.10	C
ATOM	9556	CB	HIS	1257	8.436	124.994	82.801	1.00	76.10	C
ATOM	9557	NE2	HIS	1257	11.615	126.936	82.809	1.00	76.10	N
ATOM	9558	CD2	HIS	1257	10.310	126.732	83.220	1.00	76.10	C
ATOM	9559	CE1	HIS	1257	11.874	125.915	82.013	1.00	76.10	C
ATOM	9560	C	HIS	1257	8.748	124.499	85.175	1.00	76.10	C
ATOM	9561	O	HIS	1257	9.812	124.160	85.693	1.00	76.10	O
ATOM	9562	N	GLN	1258	7.929	125.399	85.743	1.00	45.25	N
ATOM	9563	CA	GLN	1258	8.321	126.081	86.939	1.00	45.25	C
ATOM	9564	CB	GLN	1258	7.324	127.176	87.356	1.00	45.25	C
ATOM	9565	CG	GLN	1258	7.180	128.292	86.318	1.00	45.25	C
ATOM	9566	CD	GLN	1258	8.526	128.989	86.164	1.00	45.25	C
ATOM	9567	OE1	GLN	1258	9.554	128.346	85.958	1.00	45.25	O
ATOM	9568	NE2	GLN	1258	8.524	130.345	86.267	1.00	45.25	N
ATOM	9569	C	GLN	1258	8.432	125.104	88.064	1.00	45.25	C
ATOM	9570	O	GLN	1258	9.349	125.203	88.877	1.00	45.25	O
ATOM	9571	N	GLN	1259	7.497	124.138	88.154	1.00	91.91	N
ATOM	9572	CA	GLN	1259	7.527	123.233	89.265	1.00	91.91	C
ATOM	9573	CB	GLN	1259	6.265	122.358	89.388	1.00	91.91	C
ATOM	9574	CG	GLN	1259	6.034	121.372	88.245	1.00	91.91	C
ATOM	9575	CD	GLN	1259	4.748	120.625	88.566	1.00	91.91	C
ATOM	9576	OE1	GLN	1259	4.778	119.464	88.984	1.00	91.91	O
ATOM	9577	NE2	GLN	1259	3.586	121.300	88.374	1.00	91.91	N
ATOM	9578	C	GLN	1259	8.739	122.350	89.210	1.00	91.91	C
ATOM	9579	O	GLN	1259	9.407	122.156	90.224	1.00	91.91	O
ATOM	9580	N	LEU	1260	9.072	121.805	88.022	1.00	71.32	N
ATOM	9581	CA	LEU	1260	10.203	120.925	87.906	1.00	71.32	C
ATOM	9582	CB	LEU	1260	10.321	120.238	86.535	1.00	71.32	C
ATOM	9583	CG	LEU	1260	9.258	119.143	86.324	1.00	71.32	C
ATOM	9584	CD1	LEU	1260	9.401	118.474	84.948	1.00	71.32	C
ATOM	9585	CD2	LEU	1260	9.277	118.128	87.479	1.00	71.32	C
ATOM	9586	C	LEU	1260	11.473	121.670	88.181	1.00	71.32	C
ATOM	9587	O	LEU	1260	12.412	121.100	88.734	1.00	71.32	O
ATOM	9588	N	LEU	1261	11.567	122.947	87.757	1.00	109.66	N

ATOM	9589	CA	LEU	1261	12.752	123.702	88.071	1.00109.66	C
ATOM	9590	CB	LEU	1261	12.814	125.095	87.419	1.00109.66	C
ATOM	9591	CG	LEU	1261	13.342	125.085	85.973	1.00109.66	C
ATOM	9592	CD1	LEU	1261	12.479	124.227	85.041	1.00109.66	C
ATOM	9593	CD2	LEU	1261	13.543	126.518	85.456	1.00109.66	C
ATOM	9594	C	LEU	1261	12.845	123.886	89.554	1.00109.66	C
ATOM	9595	O	LEU	1261	13.923	123.767	90.135	1.00109.66	O
ATOM	9596	N	ALA	1262	11.704	124.177	90.203	1.00 35.91	N
ATOM	9597	CA	ALA	1262	11.646	124.385	91.622	1.00 35.91	C
ATOM	9598	CB	ALA	1262	10.239	124.769	92.113	1.00 35.91	C
ATOM	9599	C	ALA	1262	12.029	123.112	92.305	1.00 35.91	C
ATOM	9600	O	ALA	1262	12.626	123.130	93.381	1.00 35.91	O
ATOM	9601	N	GLN	1263	11.677	121.969	91.684	1.00 49.58	N
ATOM	9602	CA	GLN	1263	11.921	120.673	92.246	1.00 49.58	C
ATOM	9603	CB	GLN	1263	11.437	119.529	91.340	1.00 49.58	C
ATOM	9604	CG	GLN	1263	11.497	118.162	92.022	1.00 49.58	C
ATOM	9605	CD	GLN	1263	10.406	118.137	93.084	1.00 49.58	C
ATOM	9606	OE1	GLN	1263	9.408	118.848	92.982	1.00 49.58	O
ATOM	9607	NE2	GLN	1263	10.599	117.297	94.136	1.00 49.58	N
ATOM	9608	C	GLN	1263	13.396	120.506	92.451	1.00 49.58	C
ATOM	9609	O	GLN	1263	13.823	119.897	93.431	1.00 49.58	O
ATOM	9610	N	LYS	1264	14.217	121.054	91.534	1.00100.83	N
ATOM	9611	CA	LYS	1264	15.647	120.949	91.641	1.00100.83	C
ATOM	9612	CB	LYS	1264	16.211	121.573	92.930	1.00100.83	C
ATOM	9613	CG	LYS	1264	16.011	123.088	93.027	1.00100.83	C
ATOM	9614	CD	LYS	1264	16.719	123.893	91.935	1.00100.83	C
ATOM	9615	CE	LYS	1264	16.497	125.402	92.063	1.00100.83	C
ATOM	9616	NZ	LYS	1264	17.210	126.118	90.982	1.00100.83	N
ATOM	9617	C	LYS	1264	16.025	119.502	91.609	1.00100.83	C
ATOM	9618	O	LYS	1264	16.918	119.063	92.334	1.00100.83	O
ATOM	9619	N	GLY	1265	15.339	118.727	90.747	1.00 30.46	N
ATOM	9620	CA	GLY	1265	15.597	117.326	90.595	1.00 30.46	C
ATOM	9621	C	GLY	1265	16.319	117.112	89.300	1.00 30.46	C
ATOM	9622	O	GLY	1265	17.246	117.841	88.953	1.00 30.46	O
ATOM	9623	N	ILE	1266	15.904	116.063	88.561	1.00 53.00	N
ATOM	9624	CA	ILE	1266	16.525	115.695	87.321	1.00 53.00	C
ATOM	9625	CB	ILE	1266	15.957	114.429	86.758	1.00 53.00	C
ATOM	9626	CG1	ILE	1266	16.186	113.269	87.736	1.00 53.00	C
ATOM	9627	CG2	ILE	1266	16.581	114.198	85.371	1.00 53.00	C
ATOM	9628	CD1	ILE	1266	15.390	112.024	87.367	1.00 53.00	C
ATOM	9629	C	ILE	1266	16.327	116.762	86.287	1.00 53.00	C
ATOM	9630	O	ILE	1266	17.272	117.150	85.605	1.00 53.00	O
ATOM	9631	N	TYR	1267	15.095	117.287	86.163	1.00 81.10	N
ATOM	9632	CA	TYR	1267	14.758	118.248	85.145	1.00 81.10	C
ATOM	9633	CB	TYR	1267	13.266	118.629	85.192	1.00 81.10	C
ATOM	9634	CG	TYR	1267	12.970	119.605	84.104	1.00 81.10	C
ATOM	9635	CD1	TYR	1267	13.106	120.957	84.318	1.00 81.10	C
ATOM	9636	CD2	TYR	1267	12.552	119.167	82.866	1.00 81.10	C
ATOM	9637	CE1	TYR	1267	12.829	121.857	83.316	1.00 81.10	C
ATOM	9638	CE2	TYR	1267	12.274	120.063	81.859	1.00 81.10	C
ATOM	9639	CZ	TYR	1267	12.411	121.411	82.085	1.00 81.10	C
ATOM	9640	OH	TYR	1267	12.127	122.338	81.060	1.00 81.10	O
ATOM	9641	C	TYR	1267	15.593	119.481	85.335	1.00 81.10	C
ATOM	9642	O	TYR	1267	16.019	120.112	84.367	1.00 81.10	O
ATOM	9643	N	PHE	1268	15.837	119.875	86.596	1.00 59.98	N
ATOM	9644	CA	PHE	1268	16.611	121.055	86.860	1.00 59.98	C
ATOM	9645	CB	PHE	1268	16.678	121.416	88.353	1.00 59.98	C
ATOM	9646	CG	PHE	1268	17.351	122.742	88.436	1.00 59.98	C
ATOM	9647	CD1	PHE	1268	16.643	123.893	88.177	1.00 59.98	C
ATOM	9648	CD2	PHE	1268	18.681	122.838	88.772	1.00 59.98	C
ATOM	9649	CE1	PHE	1268	17.252	125.123	88.248	1.00 59.98	C
ATOM	9650	CE2	PHE	1268	19.296	124.065	88.845	1.00 59.98	C
ATOM	9651	CZ	PHE	1268	18.582	125.210	88.583	1.00 59.98	C
ATOM	9652	C	PHE	1268	18.012	120.851	86.372	1.00 59.98	C
ATOM	9653	O	PHE	1268	18.625	121.765	85.823	1.00 59.98	O
ATOM	9654	N	SER	1269	18.566	119.641	86.564	1.00 83.06	N
ATOM	9655	CA	SER	1269	19.928	119.418	86.176	1.00 83.06	C
ATOM	9656	CB	SER	1269	20.471	118.036	86.585	1.00 83.06	C
ATOM	9657	OG	SER	1269	19.834	117.004	85.847	1.00 83.06	O
ATOM	9658	C	SER	1269	20.053	119.549	84.687	1.00 83.06	C
ATOM	9659	O	SER	1269	21.117	119.909	84.189	1.00 83.06	O
ATOM	9660	N	MET	1270	18.974	119.254	83.934	1.00 93.09	N
ATOM	9661	CA	MET	1270	19.009	119.313	82.495	1.00 93.09	C
ATOM	9662	CB	MET	1270	17.712	118.808	81.844	1.00 93.09	C

ATOM	9663	CG	MET	1270	17.498	117.306	82.015	1.00	93.09	C
ATOM	9664	SD	MET	1270	15.970	116.685	81.258	1.00	93.09	S
ATOM	9665	CE	MET	1270	16.432	114.939	81.428	1.00	93.09	C
ATOM	9666	C	MET	1270	19.217	120.710	82.014	1.00	93.09	C
ATOM	9667	O	MET	1270	19.949	120.929	81.051	1.00	93.09	O
ATOM	9668	N	VAL	1271	18.574	121.699	82.661	1.00	112.22	N
ATOM	9669	CA	VAL	1271	18.743	123.044	82.204	1.00	112.22	C
ATOM	9670	CB	VAL	1271	17.958	124.048	83.007	1.00	112.22	C
ATOM	9671	CG1	VAL	1271	18.537	124.127	84.428	1.00	112.22	C
ATOM	9672	CG2	VAL	1271	17.955	125.388	82.252	1.00	112.22	C
ATOM	9673	C	VAL	1271	20.210	123.337	82.331	1.00	112.22	C
ATOM	9674	O	VAL	1271	20.800	124.029	81.503	1.00	112.22	O
ATOM	9675	N	SER	1272	20.842	122.774	83.376	1.00	114.05	N
ATOM	9676	CA	SER	1272	22.228	123.004	83.690	1.00	114.05	C
ATOM	9677	CB	SER	1272	22.637	122.330	85.010	1.00	114.05	C
ATOM	9678	OG	SER	1272	21.836	122.820	86.074	1.00	114.05	O
ATOM	9679	C	SER	1272	23.215	122.499	82.636	1.00	114.05	C
ATOM	9680	O	SER	1272	24.180	123.193	82.319	1.00	114.05	O
ATOM	9681	N	VAL	1273	22.992	121.296	82.057	1.00	151.63	N
ATOM	9682	CA	VAL	1273	23.864	120.544	81.160	1.00	151.63	C
ATOM	9683	CB	VAL	1273	23.322	119.179	80.854	1.00	151.63	C
ATOM	9684	CG1	VAL	1273	22.000	119.329	80.081	1.00	151.63	C
ATOM	9685	CG2	VAL	1273	24.400	118.393	80.093	1.00	151.63	C
ATOM	9686	C	VAL	1273	24.077	121.237	79.851	1.00	151.63	C
ATOM	9687	O	VAL	1273	25.036	120.924	79.144	1.00	151.63	O
ATOM	9688	N	GLN	1274	23.204	122.201	79.504	1.00	145.72	N
ATOM	9689	CA	GLN	1274	23.196	122.841	78.220	1.00	145.72	C
ATOM	9690	CB	GLN	1274	22.228	124.035	78.137	1.00	145.72	C
ATOM	9691	CG	GLN	1274	20.758	123.635	78.277	1.00	145.72	C
ATOM	9692	CD	GLN	1274	19.908	124.894	78.178	1.00	145.72	C
ATOM	9693	OE1	GLN	1274	19.953	125.612	77.180	1.00	145.72	O
ATOM	9694	NE2	GLN	1274	19.104	125.173	79.240	1.00	145.72	N
ATOM	9695	C	GLN	1274	24.565	123.333	77.941	1.00	145.72	C
ATOM	9696	O	GLN	1274	24.960	123.459	76.782	1.00	145.72	O
ATOM	9697	N	ALA	1275	25.330	123.622	79.001	1.00	49.11	N
ATOM	9698	CA	ALA	1275	26.653	124.106	78.759	1.00	49.11	C
ATOM	9699	CB	ALA	1275	27.453	124.325	80.055	1.00	49.11	C
ATOM	9700	C	ALA	1275	27.426	123.112	77.919	1.00	49.11	C
ATOM	9701	O	ALA	1275	28.027	123.510	76.923	1.00	49.11	O
ATOM	9702	N	GLY	1276	27.402	121.798	78.253	1.00	32.13	N
ATOM	9703	CA	GLY	1276	28.117	120.799	77.483	1.00	32.13	C
ATOM	9704	C	GLY	1276	29.552	121.267	77.292	1.00	32.13	C
ATOM	9705	O	GLY	1276	29.871	121.735	76.166	1.00	32.13	O
ATOM	9706	OXT	GLY	1276	30.346	121.165	78.264	1.00	32.13	O
TER	9707		GLY	1276						

HEADER	NONAME	22-Feb-18
TITLE		
AUTHOR	Apache	
REVDAT	1	22-Feb-18 0

NONE	1
NONE	2
NONE	3
NONE	4

ATOM	1	C	LIG	0	13.901	68.293	18.746	0.00	0.00	C+0
ATOM	2	C	LIG	0	13.906	67.973	20.091	0.00	0.00	C+0
ATOM	3	C	LIG	0	15.075	68.074	20.822	0.00	0.00	C+0
ATOM	4	C	LIG	0	16.239	68.495	20.208	0.00	0.00	C+0
ATOM	5	C	LIG	0	16.235	68.814	18.863	0.00	0.00	C+0
ATOM	6	C	LIG	0	15.066	68.714	18.133	0.00	0.00	C+0
ATOM	7	C	LIG	0	17.514	68.606	21.005	0.00	0.00	C+0
ATOM	8	C	LIG	0	17.775	67.327	21.774	0.00	0.00	C+0
ATOM	9	O	LIG	0	17.075	66.833	22.633	0.00	0.00	O+0
ATOM	10	N	LIG	0	18.946	66.852	21.307	0.00	0.00	N+0
ATOM	11	C	LIG	0	19.457	67.646	20.357	0.00	0.00	C+0
ATOM	12	O	LIG	0	20.506	67.426	19.786	0.00	0.00	O+0
ATOM	13	N	LIG	0	18.678	68.714	20.108	0.00	0.00	N+0
ATOM	14	C	LIG	0	17.451	69.785	21.941	0.00	0.00	C+0
ATOM	15	C	LIG	0	16.686	69.714	23.090	0.00	0.00	C+0
ATOM	16	C	LIG	0	16.628	70.796	23.950	0.00	0.00	C+0
ATOM	17	C	LIG	0	17.334	71.947	23.660	0.00	0.00	C+0
ATOM	18	C	LIG	0	18.101	72.018	22.511	0.00	0.00	C+0
ATOM	19	C	LIG	0	18.162	70.935	21.654	0.00	0.00	C+0
ATOM	20	H	LIG	0	12.989	68.210	18.175	0.00	0.00	H+0
ATOM	21	H	LIG	0	12.996	67.645	20.572	0.00	0.00	H+0
ATOM	22	H	LIG	0	15.078	67.824	21.873	0.00	0.00	H+0
ATOM	23	H	LIG	0	17.145	69.143	18.383	0.00	0.00	H+0
ATOM	24	H	LIG	0	15.062	68.963	17.082	0.00	0.00	H+0
ATOM	25	H	LIG	0	19.368	66.036	21.619	0.00	0.00	H+0

[illegible]