

REMARK 3
 REMARK 3 REFINEMENT.
 REMARK 3 PROGRAM : PHENIX (1.18.2_3874:
 phenix.real_space_refine)
 REMARK 3 AUTHORS :
 Adams,Afonine,Bunkoczi,Burnley,Chen,Dar,Davis,
 REMARK 3 : Draizen,Echols,Gildea,Gros,Grosse-
 Kunstleve,Headd,
 REMARK 3 :
 Hintze,Hung,Ioerger,Liebschner,McCoy,McKee,Moriarty,
 REMARK 3 :
 Oeffner,Poon,Read,Richardson,Richardson,Sacchettini,
 REMARK 3 :
 Sauter,Sobolev,Storoni,Terwilliger,Williams,Zwart
 REMARK 3
 REMARK 3 SCATTERING TABLE: ELECTRON
 REMARK 3
 REMARK 3 REFINEMENT TARGET: REAL-SPACE (WEIGHTED MAP SUM AT ATOM
 CENTERS)
 REMARK 3
 REMARK 3 MODEL TO MAP FIT.
 REMARK 3 CC_mask : 0.8735
 REMARK 3 CC_volume: 0.8655
 REMARK 3 CC_peaks : 0.8341
 REMARK 3
 REMARK 3 GEOMETRY RESTRAINTS LIBRARY: GEOSTD + MONOMER LIBRARY + CDL
 V1.2
 REMARK 3 DEVIATIONS FROM IDEAL VALUES.
 REMARK 3 BOND : 0.006 0.067 3383
 REMARK 3 ANGLE : 0.829 7.991 4594
 REMARK 3 CHIRALITY : 0.052 0.197 509
 REMARK 3 PLANARITY : 0.006 0.077 582
 REMARK 3 DIHEDRAL : 13.560 179.842 505
 REMARK 3 MIN NONBONDED DISTANCE : 2.158
 REMARK 3
 REMARK 3 MOLPROBITY STATISTICS.
 REMARK 3 ALL-ATOM CLASHSCORE : 5.60
 REMARK 3 RAMACHANDRAN PLOT:
 REMARK 3 OUTLIERS : 0.50 %
 REMARK 3 ALLOWED : 5.97 %
 REMARK 3 FAVORED : 93.53 %
 REMARK 3 ROTAMER OUTLIERS : 1.14 %
 REMARK 3 CBETA DEVIATIONS : 0.00 %
 REMARK 3 PEPTIDE PLANE:
 REMARK 3 CIS-PROLINE : 5.56 %
 REMARK 3 CIS-GENERAL : 0.00 %
 REMARK 3 TWISTED PROLINE : 0.00 %
 REMARK 3 TWISTED GENERAL : 0.52 %
 REMARK 3
 REMARK 3 RAMA-Z (RAMACHANDRAN PLOT Z-SCORE):

REMARK 3 INTERPRETATION: BAD |RAMA-Z| > 3; SUSPICIOUS 2 < |RAMA-Z| <
3; GOOD

REMARK 3 SCORES FOR WHOLE/HELIX/SHEET/LOOP ARE SCALED INDEPENDENTLY;
REMARK 3 THEREFORE, THE VALUES ARE NOT RELATED IN A SIMPLE MANNER.
REMARK 3 WHOLE: -0.66 (0.40), RESIDUES: 402
REMARK 3 HELIX: -3.62 (0.68), RESIDUES: 27
REMARK 3 SHEET: 0.68 (0.44), RESIDUES: 140
REMARK 3 LOOP : -0.73 (0.37), RESIDUES: 235
REMARK 3

HELIX 1 1 PRO B 199 ASP B 201 5
3
HELIX 2 2 PHE C 338 PHE C 342 5
5
HELIX 3 3 LEU C 387 ASP C 389 5
3
HELIX 4 4 GLY C 404 GLN C 409 5
6
HELIX 5 5 LYS C 417 TYR C 421 1
5
HELIX 6 6 ASN C 439 ASP C 442 1
4
HELIX 7 7 VAL C 502 TYR C 504 5
3
HELIX 8 8 PHE A 29 SER A 31 5
3
HELIX 9 9 ALA A 88 ASP A 90 5
3

SHEET 1 A 4 MET B 123 GLN B 125 0
SHEET 2 A 4 THR B 139 ALA B 144 -1 N ARG B 143 0 THR B 124
SHEET 3 A 4 GLU B 189 THR B 193 -1 N LEU B 192 0 ILE B 140
SHEET 4 A 4 SER B 182 SER B 186 -1 N SER B 186 0 GLU B 189
SHEET 1 B 2 THR B 129 ALA B 132 0
SHEET 2 B 2 LYS B 222 ILE B 225 1 N LYS B 222 0 LEU B 130
SHEET 1 C 3 THR B 204 GLN B 209 0
SHEET 2 C 3 LEU B 152 GLN B 157 -1 N GLN B 157 0 THR B 204
SHEET 3 C 3 LYS B 164 ILE B 167 -1 N ILE B 167 0 TRP B 154
SHEET 1 D 5 ASN C 354 SER C 359 0
SHEET 2 D 5 ASN C 394 ARG C 403 -1 N SER C 399 0 ASN C 354
SHEET 3 D 5 PRO C 506 SER C 513 -1 N SER C 513 0 TYR C 396
SHEET 4 D 5 GLY C 431 ASN C 437 -1 N TRP C 436 0 ARG C 508
SHEET 5 D 5 THR C 376 TYR C 380 -1 N TYR C 380 0 GLY C 431
SHEET 1 E 2 LEU C 452 ARG C 454 0
SHEET 2 E 2 LEU C 491 SER C 493 -1 N GLN C 492 0 TYR C 453
SHEET 1 F 4 GLN A 3 SER A 7 0
SHEET 2 F 4 LEU A 18 SER A 25 -1 N SER A 25 0 GLN A 3
SHEET 3 F 4 THR A 78 MET A 83 -1 N MET A 83 0 LEU A 18
SHEET 4 F 4 PHE A 68 ASP A 73 -1 N ASP A 73 0 THR A 78
SHEET 1 G 5 THR A 113 VAL A 115 0
SHEET 2 G 5 ALA A 92 SER A 100 -1 N TYR A 94 0 THR A 113
SHEET 3 G 5 TYR A 32 GLN A 39 -1 N GLN A 39 0 VAL A 93

SHEET	4	G 5	LEU A	45	ILE A	51	-1	N	ILE A	51	0	MET A	34
SHEET	5	G 5	LYS A	58	TYR A	60	-1	N	TYR A	59	0	VAL A	50
LINK		C1	NAG V	9					02	BMA V	8		
LINK		C1	BMA V	8					03	BMA V	3		
LINK		C1	NAG V	2					04	NAG V	1		
LINK		C1	BMA V	3					04	NAG V	2		
LINK		C1	FUC V	4					06	NAG V	1		
LINK		C1	BMA V	5					06	BMA V	3		
SSBOND	1	CYS B	142		CYS B	207							
SSBOND	2	CYS C	336		CYS C	361							
SSBOND	3	CYS C	379		CYS C	432							
SSBOND	4	CYS C	479		CYS C	487							
SSBOND	5	CYS A	22		CYS A	96							
CRYST1	100.000	100.000	100.000	90.00	90.00	90.00	P	1					
SCALE1		0.010000	0.000000	0.000000		0.000000							
SCALE2		0.000000	0.010000	0.000000		0.000000							
SCALE3		0.000000	0.000000	0.010000		0.000000							
ATOM	1	N	ASP B	1		55.119	43.529	40.482	1.00	27.51			
N													
ATOM	2	CA	ASP B	1		55.600	44.374	41.565	1.00	27.51			
C													
ATOM	3	C	ASP B	1		55.829	45.800	41.078	1.00	27.51			
C													
ATOM	4	O	ASP B	1		56.140	46.019	39.911	1.00	27.51			
O													
ATOM	5	CB	ASP B	1		56.888	43.805	42.149	1.00	27.51			
C													
ATOM	6	CG	ASP B	1		57.937	43.561	41.094	1.00	27.51			
C													
ATOM	7	OD1	ASP B	1		57.556	43.384	39.922	1.00	27.51			
O													
ATOM	8	OD2	ASP B	1		59.136	43.553	41.434	1.00	27.51			
O													
ATOM	9	N	ILE B	2		55.674	46.765	41.977	1.00	21.42			
N													
ATOM	10	CA	ILE B	2		55.865	48.169	41.637	1.00	21.42			
C													
ATOM	11	C	ILE B	2		57.343	48.508	41.751	1.00	21.42			
C													
ATOM	12	O	ILE B	2		57.978	48.226	42.771	1.00	21.42			
O													
ATOM	13	CB	ILE B	2		55.015	49.068	42.546	1.00	21.42			
C													
ATOM	14	CG1	ILE B	2		53.535	48.717	42.399	1.00	21.42			
C													
ATOM	15	CG2	ILE B	2		55.263	50.531	42.235	1.00	21.42			
C													
ATOM	16	CD1	ILE B	2		52.684	49.162	43.548	1.00	21.42			
C													
ATOM	17	N	GLN B	3		57.896	49.111	40.705	1.00	23.36			

N										
ATOM	18	CA	GLN	B	3	59.303	49.478	40.686	1.00	23.36
C										
ATOM	19	C	GLN	B	3	59.482	50.877	41.256	1.00	23.36
C										
ATOM	20	O	GLN	B	3	58.771	51.808	40.869	1.00	23.36
O										
ATOM	21	CB	GLN	B	3	59.866	49.411	39.267	1.00	23.36
C										
ATOM	22	CG	GLN	B	3	59.594	48.105	38.557	1.00	23.36
C										
ATOM	23	CD	GLN	B	3	60.007	46.905	39.372	1.00	23.36
C										
ATOM	24	OE1	GLN	B	3	59.220	45.987	39.583	1.00	23.36
O										
ATOM	25	NE2	GLN	B	3	61.249	46.902	39.834	1.00	23.36
N										
ATOM	26	N	MET	B	4	60.429	51.016	42.176	1.00	19.78
N										
ATOM	27	CA	MET	B	4	60.734	52.282	42.823	1.00	19.78
C										
ATOM	28	C	MET	B	4	62.144	52.689	42.432	1.00	19.78
C										
ATOM	29	O	MET	B	4	63.060	51.865	42.478	1.00	19.78
O										
ATOM	30	CB	MET	B	4	60.624	52.164	44.347	1.00	19.78
C										
ATOM	31	CG	MET	B	4	59.311	51.592	44.847	1.00	19.78
C										
ATOM	32	SD	MET	B	4	57.901	52.632	44.444	1.00	19.78
S										
ATOM	33	CE	MET	B	4	58.371	54.146	45.255	1.00	19.78
C										
ATOM	34	N	THR	B	5	62.323	53.948	42.045	1.00	21.11
N										
ATOM	35	CA	THR	B	5	63.651	54.417	41.677	1.00	21.11
C										
ATOM	36	C	THR	B	5	63.882	55.811	42.240	1.00	21.11
C										
ATOM	37	O	THR	B	5	62.978	56.642	42.249	1.00	21.11
O										
ATOM	38	CB	THR	B	5	63.849	54.397	40.152	1.00	21.11
C										
ATOM	39	OG1	THR	B	5	65.210	54.712	39.839	1.00	21.11
O										
ATOM	40	CG2	THR	B	5	62.929	55.380	39.464	1.00	21.11
C										
ATOM	41	N	GLN	B	6	65.091	56.060	42.725	1.00	20.54
N										
ATOM	42	CA	GLN	B	6	65.445	57.335	43.329	1.00	20.54

C										
ATOM	43	C	GLN	B	6	66.420	58.062	42.414	1.00	20.54
C										
ATOM	44	O	GLN	B	6	67.358	57.456	41.894	1.00	20.54
O										
ATOM	45	CB	GLN	B	6	66.048	57.129	44.719	1.00	20.54
C										
ATOM	46	CG	GLN	B	6	65.073	56.510	45.687	1.00	20.54
C										
ATOM	47	CD	GLN	B	6	65.700	56.116	47.004	1.00	20.54
C										
ATOM	48	OE1	GLN	B	6	65.498	55.006	47.481	1.00	20.54
O										
ATOM	49	NE2	GLN	B	6	66.439	57.028	47.611	1.00	20.54
N										
ATOM	50	N	SER	B	7	66.186	59.359	42.211	1.00	28.45
N										
ATOM	51	CA	SER	B	7	66.754	60.036	41.046	1.00	28.45
C										
ATOM	52	C	SER	B	7	68.246	60.308	41.187	1.00	28.45
C										
ATOM	53	O	SER	B	7	69.017	59.866	40.327	1.00	28.45
O										
ATOM	54	CB	SER	B	7	66.001	61.331	40.739	1.00	28.45
C										
ATOM	55	OG	SER	B	7	66.694	62.079	39.757	1.00	28.45
O										
ATOM	56	N	PRO	B	8	68.718	61.030	42.213	1.00	27.25
N										
ATOM	57	CA	PRO	B	8	70.171	61.101	42.408	1.00	27.25
C										
ATOM	58	C	PRO	B	8	70.638	59.847	43.127	1.00	27.25
C										
ATOM	59	O	PRO	B	8	70.325	59.637	44.302	1.00	27.25
O										
ATOM	60	CB	PRO	B	8	70.349	62.363	43.267	1.00	27.25
C										
ATOM	61	CG	PRO	B	8	68.962	62.860	43.587	1.00	27.25
C										
ATOM	62	CD	PRO	B	8	68.013	61.754	43.279	1.00	27.25
C										
ATOM	63	N	SER	B	9	71.350	58.982	42.404	1.00	29.14
N										
ATOM	64	CA	SER	B	9	71.862	57.762	43.019	1.00	29.14
C										
ATOM	65	C	SER	B	9	72.904	58.079	44.079	1.00	29.14
C										
ATOM	66	O	SER	B	9	72.916	57.468	45.151	1.00	29.14
O										
ATOM	67	CB	SER	B	9	72.445	56.838	41.956	1.00	29.14

C										
ATOM	68	OG	SER	B	9	71.421	56.288	41.153	1.00	29.14
O										
ATOM	69	N	THR	B	10	73.791	59.025	43.796	1.00	33.00
N										
ATOM	70	CA	THR	B	10	74.754	59.490	44.777	1.00	33.00
C										
ATOM	71	C	THR	B	10	74.864	61.000	44.659	1.00	33.00
C										
ATOM	72	O	THR	B	10	74.626	61.572	43.595	1.00	33.00
O										
ATOM	73	CB	THR	B	10	76.126	58.831	44.594	1.00	33.00
C										
ATOM	74	OG1	THR	B	10	77.053	59.389	45.531	1.00	33.00
O										
ATOM	75	CG2	THR	B	10	76.638	59.051	43.187	1.00	33.00
C										
ATOM	76	N	LEU	B	11	75.203	61.643	45.768	1.00	36.94
N										
ATOM	77	CA	LEU	B	11	75.224	63.096	45.795	1.00	36.94
C										
ATOM	78	C	LEU	B	11	76.231	63.579	46.824	1.00	36.94
C										
ATOM	79	O	LEU	B	11	76.192	63.157	47.982	1.00	36.94
O										
ATOM	80	CB	LEU	B	11	73.831	63.641	46.101	1.00	36.94
C										
ATOM	81	CG	LEU	B	11	73.692	65.126	46.391	1.00	36.94
C										
ATOM	82	CD1	LEU	B	11	73.955	65.927	45.135	1.00	36.94
C										
ATOM	83	CD2	LEU	B	11	72.296	65.370	46.876	1.00	36.94
C										
ATOM	84	N	SER	B	12	77.131	64.456	46.396	1.00	41.19
N										
ATOM	85	CA	SER	B	12	78.108	65.065	47.284	1.00	41.19
C										
ATOM	86	C	SER	B	12	77.599	66.426	47.728	1.00	41.19
C										
ATOM	87	O	SER	B	12	77.088	67.202	46.918	1.00	41.19
O										
ATOM	88	CB	SER	B	12	79.465	65.205	46.593	1.00	41.19
C										
ATOM	89	OG	SER	B	12	79.302	65.516	45.223	1.00	41.19
O										
ATOM	90	N	ALA	B	13	77.723	66.704	49.020	1.00	42.09
N										
ATOM	91	CA	ALA	B	13	77.234	67.957	49.571	1.00	42.09
C										
ATOM	92	C	ALA	B	13	78.126	68.372	50.731	1.00	42.09

C										
ATOM	93	O	ALA	B	13	78.946	67.595	51.223	1.00	42.09
O										
ATOM	94	CB	ALA	B	13	75.777	67.838	50.017	1.00	42.09
C										
ATOM	95	N	SER	B	14	77.962	69.620	51.158	1.00	42.98
N										
ATOM	96	CA	SER	B	14	78.711	70.175	52.272	1.00	42.98
C										
ATOM	97	C	SER	B	14	77.755	70.509	53.408	1.00	42.98
C										
ATOM	98	O	SER	B	14	76.535	70.524	53.237	1.00	42.98
O										
ATOM	99	CB	SER	B	14	79.495	71.425	51.849	1.00	42.98
C										
ATOM	100	OG	SER	B	14	78.634	72.395	51.285	1.00	42.98
O										
ATOM	101	N	VAL	B	15	78.316	70.758	54.587	1.00	42.15
N										
ATOM	102	CA	VAL	B	15	77.478	71.055	55.738	1.00	42.15
C										
ATOM	103	C	VAL	B	15	76.749	72.368	55.509	1.00	42.15
C										
ATOM	104	O	VAL	B	15	77.370	73.416	55.295	1.00	42.15
O										
ATOM	105	CB	VAL	B	15	78.319	71.094	57.019	1.00	42.15
C										
ATOM	106	CG1	VAL	B	15	77.454	71.480	58.198	1.00	42.15
C										
ATOM	107	CG2	VAL	B	15	78.969	69.750	57.256	1.00	42.15
C										
ATOM	108	N	GLY	B	16	75.422	72.315	55.545	1.00	43.40
N										
ATOM	109	CA	GLY	B	16	74.599	73.495	55.439	1.00	43.40
C										
ATOM	110	C	GLY	B	16	73.805	73.635	54.158	1.00	43.40
C										
ATOM	111	O	GLY	B	16	72.902	74.478	54.114	1.00	43.40
O										
ATOM	112	N	ASP	B	17	74.095	72.853	53.120	1.00	43.64
N										
ATOM	113	CA	ASP	B	17	73.324	73.019	51.897	1.00	43.64
C										
ATOM	114	C	ASP	B	17	71.927	72.422	52.024	1.00	43.64
C										
ATOM	115	O	ASP	B	17	71.615	71.662	52.943	1.00	43.64
O										
ATOM	116	CB	ASP	B	17	74.014	72.403	50.678	1.00	43.64
C										
ATOM	117	CG	ASP	B	17	75.510	72.553	50.703	1.00	43.64

C									
ATOM	118	OD1	ASP	B	17	76.208	71.558	50.951	1.00 43.64
O									
ATOM	119	OD2	ASP	B	17	75.993	73.678	50.475	1.00 43.64
O									
ATOM	120	N	LYS	B	18	71.079	72.811	51.080	1.00 40.48
N									
ATOM	121	CA	LYS	B	18	69.744	72.263	50.929	1.00 40.48
C									
ATOM	122	C	LYS	B	18	69.830	71.068	49.996	1.00 40.48
C									
ATOM	123	O	LYS	B	18	70.401	71.168	48.908	1.00 40.48
O									
ATOM	124	CB	LYS	B	18	68.803	73.315	50.346	1.00 40.48
C									
ATOM	125	CG	LYS	B	18	68.110	74.185	51.368	1.00 40.48
C									
ATOM	126	CD	LYS	B	18	66.871	74.861	50.796	1.00 40.48
C									
ATOM	127	CE	LYS	B	18	66.246	74.044	49.676	1.00 40.48
C									
ATOM	128	NZ	LYS	B	18	64.766	74.185	49.650	1.00 40.48
N									
ATOM	129	N	ILE	B	19	69.271	69.938	50.415	1.00 33.20
N									
ATOM	130	CA	ILE	B	19	69.371	68.704	49.652	1.00 33.20
C									
ATOM	131	C	ILE	B	19	67.962	68.218	49.353	1.00 33.20
C									
ATOM	132	O	ILE	B	19	67.119	68.161	50.254	1.00 33.20
O									
ATOM	133	CB	ILE	B	19	70.175	67.638	50.414	1.00 33.20
C									
ATOM	134	CG1	ILE	B	19	71.647	68.029	50.432	1.00 33.20
C									
ATOM	135	CG2	ILE	B	19	70.036	66.287	49.740	1.00 33.20
C									
ATOM	136	CD1	ILE	B	19	72.280	68.029	49.090	1.00 33.20
C									
ATOM	137	N	THR	B	20	67.705	67.888	48.092	1.00 27.05
N									
ATOM	138	CA	THR	B	20	66.417	67.364	47.662	1.00 27.05
C									
ATOM	139	C	THR	B	20	66.628	66.033	46.959	1.00 27.05
C									
ATOM	140	O	THR	B	20	67.458	65.928	46.053	1.00 27.05
O									
ATOM	141	CB	THR	B	20	65.697	68.349	46.737	1.00 27.05
C									
ATOM	142	OG1	THR	B	20	65.264	69.480	47.498	1.00 27.05

O										
ATOM	143	CG2	THR	B	20	64.487	67.698	46.098	1.00	27.05
C										
ATOM	144	N	ILE	B	21	65.879	65.020	47.385	1.00	22.41
N										
ATOM	145	CA	ILE	B	21	65.954	63.672	46.839	1.00	22.41
C										
ATOM	146	C	ILE	B	21	64.586	63.328	46.274	1.00	22.41
C										
ATOM	147	O	ILE	B	21	63.568	63.564	46.929	1.00	22.41
O										
ATOM	148	CB	ILE	B	21	66.377	62.654	47.913	1.00	22.41
C										
ATOM	149	CG1	ILE	B	21	67.658	63.117	48.607	1.00	22.41
C										
ATOM	150	CG2	ILE	B	21	66.554	61.281	47.302	1.00	22.41
C										
ATOM	151	CD1	ILE	B	21	67.982	62.363	49.866	1.00	22.41
C										
ATOM	152	N	THR	B	22	64.557	62.790	45.063	1.00	22.40
N										
ATOM	153	CA	THR	B	22	63.312	62.449	44.393	1.00	22.40
C										
ATOM	154	C	THR	B	22	63.188	60.938	44.269	1.00	22.40
C										
ATOM	155	O	THR	B	22	64.160	60.251	43.951	1.00	22.40
O										
ATOM	156	CB	THR	B	22	63.233	63.090	43.003	1.00	22.40
C										
ATOM	157	OG1	THR	B	22	63.454	64.498	43.113	1.00	22.40
O										
ATOM	158	CG2	THR	B	22	61.870	62.852	42.380	1.00	22.40
C										
ATOM	159	N	CYS	B	23	61.991	60.425	44.529	1.00	20.48
N										
ATOM	160	CA	CYS	B	23	61.675	59.018	44.348	1.00	20.48
C										
ATOM	161	C	CYS	B	23	60.459	58.914	43.436	1.00	20.48
C										
ATOM	162	O	CYS	B	23	59.520	59.703	43.548	1.00	20.48
O										
ATOM	163	CB	CYS	B	23	61.427	58.326	45.714	1.00	20.48
C										
ATOM	164	SG	CYS	B	23	60.966	56.566	45.638	1.00	20.48
S										
ATOM	165	N	ARG	B	24	60.491	57.963	42.513	1.00	23.16
N										
ATOM	166	CA	ARG	B	24	59.438	57.792	41.525	1.00	23.16
C										
ATOM	167	C	ARG	B	24	58.980	56.344	41.511	1.00	23.16

C										
ATOM	168	O	ARG	B	24	59.787	55.423	41.667	1.00	23.16
O										
ATOM	169	CB	ARG	B	24	59.908	58.199	40.117	1.00	23.16
C										
ATOM	170	CG	ARG	B	24	60.462	59.605	40.028	1.00	23.16
C										
ATOM	171	CD	ARG	B	24	60.433	60.139	38.606	1.00	23.16
C										
ATOM	172	NE	ARG	B	24	60.600	61.587	38.585	1.00	23.16
N										
ATOM	173	CZ	ARG	B	24	61.776	62.197	38.493	1.00	23.16
C										
ATOM	174	NH1	ARG	B	24	62.888	61.483	38.406	1.00	23.16
N										
ATOM	175	NH2	ARG	B	24	61.839	63.520	38.486	1.00	23.16
N										
ATOM	176	N	ALA	B	25	57.681	56.154	41.315	1.00	21.65
N										
ATOM	177	CA	ALA	B	25	57.058	54.843	41.265	1.00	21.65
C										
ATOM	178	C	ALA	B	25	56.542	54.569	39.859	1.00	21.65
C										
ATOM	179	O	ALA	B	25	56.123	55.485	39.148	1.00	21.65
O										
ATOM	180	CB	ALA	B	25	55.907	54.746	42.268	1.00	21.65
C										
ATOM	181	N	SER	B	26	56.579	53.299	39.460	1.00	23.50
N										
ATOM	182	CA	SER	B	26	56.119	52.933	38.124	1.00	23.50
C										
ATOM	183	C	SER	B	26	54.600	52.955	38.008	1.00	23.50
C										
ATOM	184	O	SER	B	26	54.072	53.187	36.916	1.00	23.50
O										
ATOM	185	CB	SER	B	26	56.658	51.556	37.739	1.00	23.50
C										
ATOM	186	OG	SER	B	26	56.140	50.545	38.578	1.00	23.50
O										
ATOM	187	N	GLN	B	27	53.889	52.707	39.102	1.00	24.57
N										
ATOM	188	CA	GLN	B	27	52.440	52.813	39.163	1.00	24.57
C										
ATOM	189	C	GLN	B	27	52.069	53.724	40.321	1.00	24.57
C										
ATOM	190	O	GLN	B	27	52.866	53.950	41.231	1.00	24.57
O										
ATOM	191	CB	GLN	B	27	51.771	51.447	39.348	1.00	24.57
C										
ATOM	192	CG	GLN	B	27	52.140	50.422	38.305	1.00	24.57

C										
ATOM	193	CD	GLN	B	27	51.716	50.840	36.917	1.00	24.57
C										
ATOM	194	OE1	GLN	B	27	52.483	50.731	35.963	1.00	24.57
O										
ATOM	195	NE2	GLN	B	27	50.490	51.328	36.797	1.00	24.57
N										
ATOM	196	N	SER	B	28	50.847	54.246	40.287	1.00	21.25
N										
ATOM	197	CA	SER	B	28	50.397	55.157	41.330	1.00	21.25
C										
ATOM	198	C	SER	B	28	50.166	54.407	42.639	1.00	21.25
C										
ATOM	199	O	SER	B	28	49.512	53.364	42.663	1.00	21.25
O										
ATOM	200	CB	SER	B	28	49.121	55.868	40.889	1.00	21.25
C										
ATOM	201	OG	SER	B	28	48.684	56.780	41.874	1.00	21.25
O										
ATOM	202	N	ILE	B	29	50.715	54.945	43.729	1.00	17.66
N										
ATOM	203	CA	ILE	B	29	50.686	54.327	45.055	1.00	17.66
C										
ATOM	204	C	ILE	B	29	50.059	55.272	46.071	1.00	17.66
C										
ATOM	205	O	ILE	B	29	50.452	55.281	47.238	1.00	17.66
O										
ATOM	206	CB	ILE	B	29	52.096	53.909	45.514	1.00	17.66
C										
ATOM	207	CG1	ILE	B	29	53.069	55.085	45.414	1.00	17.66
C										
ATOM	208	CG2	ILE	B	29	52.585	52.722	44.714	1.00	17.66
C										
ATOM	209	CD1	ILE	B	29	54.386	54.839	46.113	1.00	17.66
C										
ATOM	210	N	SER	B	30	49.006	55.981	45.681	1.00	18.78
N										
ATOM	211	CA	SER	B	30	48.857	57.418	45.871	1.00	18.78
C										
ATOM	212	C	SER	B	30	49.615	58.092	47.015	1.00	18.78
C										
ATOM	213	O	SER	B	30	50.496	58.903	46.733	1.00	18.78
O										
ATOM	214	CB	SER	B	30	47.366	57.706	46.051	1.00	18.78
C										
ATOM	215	OG	SER	B	30	46.929	57.324	47.344	1.00	18.78
O										
ATOM	216	N	ASN	B	31	49.348	57.795	48.283	1.00	17.25
N										
ATOM	217	CA	ASN	B	31	50.109	58.442	49.351	1.00	17.25

C										
ATOM	218	C	ASN	B	31	50.935	57.458	50.166	1.00	17.25
C										
ATOM	219	O	ASN	B	31	51.562	57.860	51.149	1.00	17.25
O										
ATOM	220	CB	ASN	B	31	49.195	59.229	50.296	1.00	17.25
C										
ATOM	221	CG	ASN	B	31	48.640	60.491	49.665	1.00	17.25
C										
ATOM	222	OD1	ASN	B	31	49.220	61.046	48.740	1.00	17.25
O										
ATOM	223	ND2	ASN	B	31	47.508	60.948	50.170	1.00	17.25
N										
ATOM	224	N	TRP	B	32	50.962	56.188	49.780	1.00	13.87
N										
ATOM	225	CA	TRP	B	32	51.457	55.130	50.659	1.00	13.87
C										
ATOM	226	C	TRP	B	32	52.948	54.877	50.416	1.00	13.87
C										
ATOM	227	O	TRP	B	32	53.368	53.836	49.918	1.00	13.87
O										
ATOM	228	CB	TRP	B	32	50.623	53.870	50.468	1.00	13.87
C										
ATOM	229	CG	TRP	B	32	49.130	54.121	50.329	1.00	13.87
C										
ATOM	230	CD1	TRP	B	32	48.294	53.542	49.426	1.00	13.87
C										
ATOM	231	CD2	TRP	B	32	48.315	55.001	51.121	1.00	13.87
C										
ATOM	232	NE1	TRP	B	32	47.014	54.005	49.597	1.00	13.87
N										
ATOM	233	CE2	TRP	B	32	47.000	54.902	50.630	1.00	13.87
C										
ATOM	234	CE3	TRP	B	32	48.570	55.863	52.190	1.00	13.87
C										
ATOM	235	CZ2	TRP	B	32	45.948	55.631	51.171	1.00	13.87
C										
ATOM	236	CZ3	TRP	B	32	47.521	56.587	52.722	1.00	13.87
C										
ATOM	237	CH2	TRP	B	32	46.227	56.465	52.211	1.00	13.87
C										
ATOM	238	N	LEU	B	33	53.752	55.861	50.805	1.00	13.98
N										
ATOM	239	CA	LEU	B	33	55.203	55.795	50.692	1.00	13.98
C										
ATOM	240	C	LEU	B	33	55.836	56.246	51.999	1.00	13.98
C										
ATOM	241	O	LEU	B	33	55.318	57.139	52.670	1.00	13.98
O										
ATOM	242	CB	LEU	B	33	55.703	56.666	49.536	1.00	13.98

C										
ATOM	243	CG	LEU	B	33	57.209	56.700	49.266	1.00	13.98
C										
ATOM	244	CD1	LEU	B	33	57.488	56.481	47.804	1.00	13.98
C										
ATOM	245	CD2	LEU	B	33	57.812	58.010	49.730	1.00	13.98
C										
ATOM	246	N	ALA	B	34	56.957	55.626	52.353	1.00	14.00
N										
ATOM	247	CA	ALA	B	34	57.711	55.953	53.551	1.00	14.00
C										
ATOM	248	C	ALA	B	34	59.162	56.217	53.172	1.00	14.00
C										
ATOM	249	O	ALA	B	34	59.666	55.673	52.193	1.00	14.00
O										
ATOM	250	CB	ALA	B	34	57.638	54.824	54.584	1.00	14.00
C										
ATOM	251	N	TRP	B	35	59.818	57.071	53.951	1.00	16.39
N										
ATOM	252	CA	TRP	B	35	61.216	57.440	53.755	1.00	16.39
C										
ATOM	253	C	TRP	B	35	62.030	57.017	54.970	1.00	16.39
C										
ATOM	254	O	TRP	B	35	61.693	57.397	56.099	1.00	16.39
O										
ATOM	255	CB	TRP	B	35	61.387	58.950	53.562	1.00	16.39
C										
ATOM	256	CG	TRP	B	35	60.992	59.519	52.241	1.00	16.39
C										
ATOM	257	CD1	TRP	B	35	59.815	60.130	51.936	1.00	16.39
C										
ATOM	258	CD2	TRP	B	35	61.800	59.596	51.064	1.00	16.39
C										
ATOM	259	NE1	TRP	B	35	59.829	60.559	50.636	1.00	16.39
N										
ATOM	260	CE2	TRP	B	35	61.038	60.245	50.077	1.00	16.39
C										
ATOM	261	CE3	TRP	B	35	63.090	59.167	50.744	1.00	16.39
C										
ATOM	262	CZ2	TRP	B	35	61.522	60.475	48.797	1.00	16.39
C										
ATOM	263	CZ3	TRP	B	35	63.567	59.397	49.473	1.00	16.39
C										
ATOM	264	CH2	TRP	B	35	62.786	60.046	48.516	1.00	16.39
C										
ATOM	265	N	PHE	B	36	63.129	56.295	54.711	1.00	17.41
N										
ATOM	266	CA	PHE	B	36	64.059	55.768	55.702	1.00	17.41
C										
ATOM	267	C	PHE	B	36	65.449	56.356	55.499	1.00	17.41

C										
ATOM	268	O	PHE	B	36	65.845	56.677	54.380	1.00	17.41
O										
ATOM	269	CB	PHE	B	36	64.195	54.244	55.605	1.00	17.41
C										
ATOM	270	CG	PHE	B	36	62.944	53.497	55.901	1.00	17.41
C										
ATOM	271	CD1	PHE	B	36	62.696	53.024	57.172	1.00	17.41
C										
ATOM	272	CD2	PHE	B	36	62.028	53.234	54.903	1.00	17.41
C										
ATOM	273	CE1	PHE	B	36	61.553	52.322	57.445	1.00	17.41
C										
ATOM	274	CE2	PHE	B	36	60.882	52.535	55.175	1.00	17.41
C										
ATOM	275	CZ	PHE	B	36	60.645	52.079	56.443	1.00	17.41
C										
ATOM	276	N	GLN	B	37	66.200	56.441	56.592	1.00	22.43
N										
ATOM	277	CA	GLN	B	37	67.602	56.832	56.584	1.00	22.43
C										
ATOM	278	C	GLN	B	37	68.419	55.695	57.181	1.00	22.43
C										
ATOM	279	O	GLN	B	37	68.020	55.118	58.193	1.00	22.43
O										
ATOM	280	CB	GLN	B	37	67.803	58.120	57.391	1.00	22.43
C										
ATOM	281	CG	GLN	B	37	69.240	58.530	57.635	1.00	22.43
C										
ATOM	282	CD	GLN	B	37	69.346	59.619	58.684	1.00	22.43
C										
ATOM	283	OE1	GLN	B	37	69.059	59.395	59.854	1.00	22.43
O										
ATOM	284	NE2	GLN	B	37	69.736	60.812	58.261	1.00	22.43
N										
ATOM	285	N	GLN	B	38	69.545	55.364	56.552	1.00	25.64
N										
ATOM	286	CA	GLN	B	38	70.479	54.372	57.071	1.00	25.64
C										
ATOM	287	C	GLN	B	38	71.868	54.987	57.124	1.00	25.64
C										
ATOM	288	O	GLN	B	38	72.418	55.374	56.088	1.00	25.64
O										
ATOM	289	CB	GLN	B	38	70.500	53.103	56.215	1.00	25.64
C										
ATOM	290	CG	GLN	B	38	71.401	52.010	56.789	1.00	25.64
C										
ATOM	291	CD	GLN	B	38	71.343	50.720	56.005	1.00	25.64
C										
ATOM	292	OE1	GLN	B	38	71.175	50.726	54.793	1.00	25.64

O										
ATOM	293	NE2	GLN	B	38	71.489	49.602	56.699	1.00	25.64
N										
ATOM	294	N	LYS	B	39	72.425	55.068	58.322	1.00	33.81
N										
ATOM	295	CA	LYS	B	39	73.792	55.513	58.521	1.00	33.81
C										
ATOM	296	C	LYS	B	39	74.757	54.352	58.310	1.00	33.81
C										
ATOM	297	O	LYS	B	39	74.373	53.188	58.425	1.00	33.81
O										
ATOM	298	CB	LYS	B	39	73.948	56.086	59.921	1.00	33.81
C										
ATOM	299	CG	LYS	B	39	73.227	57.395	60.116	1.00	33.81
C										
ATOM	300	CD	LYS	B	39	73.240	57.808	61.567	1.00	33.81
C										
ATOM	301	CE	LYS	B	39	72.353	59.012	61.804	1.00	33.81
C										
ATOM	302	NZ	LYS	B	39	72.598	59.604	63.143	1.00	33.81
N										
ATOM	303	N	PRO	B	40	76.017	54.640	57.981	1.00	37.75
N										
ATOM	304	CA	PRO	B	40	76.991	53.555	57.774	1.00	37.75
C										
ATOM	305	C	PRO	B	40	77.120	52.687	59.016	1.00	37.75
C										
ATOM	306	O	PRO	B	40	77.411	53.173	60.109	1.00	37.75
O										
ATOM	307	CB	PRO	B	40	78.299	54.292	57.460	1.00	37.75
C										
ATOM	308	CG	PRO	B	40	77.979	55.729	57.361	1.00	37.75
C										
ATOM	309	CD	PRO	B	40	76.525	55.955	57.561	1.00	37.75
C										
ATOM	310	N	GLY	B	41	76.876	51.391	58.841	1.00	38.67
N										
ATOM	311	CA	GLY	B	41	77.014	50.433	59.917	1.00	38.67
C										
ATOM	312	C	GLY	B	41	75.872	50.377	60.906	1.00	38.67
C										
ATOM	313	O	GLY	B	41	76.010	49.719	61.942	1.00	38.67
O										
ATOM	314	N	LYS	B	42	74.750	51.032	60.628	1.00	36.67
N										
ATOM	315	CA	LYS	B	42	73.608	51.048	61.529	1.00	36.67
C										
ATOM	316	C	LYS	B	42	72.380	50.480	60.828	1.00	36.67
C										
ATOM	317	O	LYS	B	42	72.401	50.166	59.637	1.00	36.67

O										
ATOM	318	CB	LYS	B	42	73.319	52.467	62.029	1.00	36.67
C										
ATOM	319	CG	LYS	B	42	74.490	53.149	62.706	1.00	36.67
C										
ATOM	320	CD	LYS	B	42	75.165	52.238	63.712	1.00	36.67
C										
ATOM	321	CE	LYS	B	42	75.625	53.024	64.921	1.00	36.67
C										
ATOM	322	NZ	LYS	B	42	74.587	54.001	65.341	1.00	36.67
N										
ATOM	323	N	ALA	B	43	71.318	50.345	61.580	1.00	30.87
N										
ATOM	324	CA	ALA	B	43	70.055	49.856	61.052	1.00	30.87
C										
ATOM	325	C	ALA	B	43	69.215	51.010	60.510	1.00	30.87
C										
ATOM	326	O	ALA	B	43	69.321	52.139	60.993	1.00	30.87
O										
ATOM	327	CB	ALA	B	43	69.276	49.123	62.136	1.00	30.87
C										
ATOM	328	N	PRO	B	44	68.370	50.750	59.510	1.00	27.80
N										
ATOM	329	CA	PRO	B	44	67.556	51.825	58.928	1.00	27.80
C										
ATOM	330	C	PRO	B	44	66.643	52.479	59.951	1.00	27.80
C										
ATOM	331	O	PRO	B	44	66.123	51.834	60.859	1.00	27.80
O										
ATOM	332	CB	PRO	B	44	66.743	51.108	57.847	1.00	27.80
C										
ATOM	333	CG	PRO	B	44	67.557	49.928	57.496	1.00	27.80
C										
ATOM	334	CD	PRO	B	44	68.223	49.493	58.761	1.00	27.80
C										
ATOM	335	N	LYS	B	45	66.445	53.782	59.780	1.00	24.87
N										
ATOM	336	CA	LYS	B	45	65.607	54.582	60.658	1.00	24.87
C										
ATOM	337	C	LYS	B	45	64.526	55.271	59.837	1.00	24.87
C										
ATOM	338	O	LYS	B	45	64.821	55.854	58.791	1.00	24.87
O										
ATOM	339	CB	LYS	B	45	66.445	55.621	61.403	1.00	24.87
C										
ATOM	340	CG	LYS	B	45	65.664	56.424	62.404	1.00	24.87
C										
ATOM	341	CD	LYS	B	45	66.423	56.509	63.708	1.00	24.87
C										
ATOM	342	CE	LYS	B	45	66.634	55.121	64.283	1.00	24.87

C										
ATOM	343	NZ	LYS	B	45	65.352	54.397	64.480	1.00	24.87
N										
ATOM	344	N	LEU	B	46	63.288	55.219	60.320	1.00	20.28
N										
ATOM	345	CA	LEU	B	46	62.163	55.821	59.614	1.00	20.28
C										
ATOM	346	C	LEU	B	46	62.141	57.330	59.822	1.00	20.28
C										
ATOM	347	O	LEU	B	46	62.229	57.811	60.954	1.00	20.28
O										
ATOM	348	CB	LEU	B	46	60.848	55.206	60.091	1.00	20.28
C										
ATOM	349	CG	LEU	B	46	59.538	55.801	59.565	1.00	20.28
C										
ATOM	350	CD1	LEU	B	46	59.406	55.613	58.063	1.00	20.28
C										
ATOM	351	CD2	LEU	B	46	58.348	55.192	60.277	1.00	20.28
C										
ATOM	352	N	LEU	B	47	62.025	58.075	58.725	1.00	20.64
N										
ATOM	353	CA	LEU	B	47	61.926	59.527	58.775	1.00	20.64
C										
ATOM	354	C	LEU	B	47	60.513	60.006	58.483	1.00	20.64
C										
ATOM	355	O	LEU	B	47	59.909	60.696	59.304	1.00	20.64
O										
ATOM	356	CB	LEU	B	47	62.886	60.177	57.774	1.00	20.64
C										
ATOM	357	CG	LEU	B	47	64.384	59.942	57.866	1.00	20.64
C										
ATOM	358	CD1	LEU	B	47	65.044	60.575	56.662	1.00	20.64
C										
ATOM	359	CD2	LEU	B	47	64.918	60.526	59.150	1.00	20.64
C										
ATOM	360	N	ILE	B	48	59.970	59.649	57.325	1.00	19.28
N										
ATOM	361	CA	ILE	B	48	58.703	60.208	56.870	1.00	19.28
C										
ATOM	362	C	ILE	B	48	57.730	59.069	56.628	1.00	19.28
C										
ATOM	363	O	ILE	B	48	58.061	58.098	55.947	1.00	19.28
O										
ATOM	364	CB	ILE	B	48	58.864	61.060	55.597	1.00	19.28
C										
ATOM	365	CG1	ILE	B	48	59.941	62.132	55.788	1.00	19.28
C										
ATOM	366	CG2	ILE	B	48	57.535	61.691	55.203	1.00	19.28
C										
ATOM	367	CD1	ILE	B	48	59.493	63.316	56.579	1.00	19.28

C										
ATOM	368	N	TYR	B	49	56.544	59.193	57.182	1.00	21.29
N										
ATOM	369	CA	TYR	B	49	55.462	58.252	56.990	1.00	21.29
C										
ATOM	370	C	TYR	B	49	54.605	58.798	55.851	1.00	21.29
C										
ATOM	371	O	TYR	B	49	55.101	59.604	55.063	1.00	21.29
O										
ATOM	372	CB	TYR	B	49	54.766	58.043	58.328	1.00	21.29
C										
ATOM	373	CG	TYR	B	49	53.857	56.862	58.362	1.00	21.29
C										
ATOM	374	CD1	TYR	B	49	54.337	55.583	58.127	1.00	21.29
C										
ATOM	375	CD2	TYR	B	49	52.527	57.016	58.688	1.00	21.29
C										
ATOM	376	CE1	TYR	B	49	53.495	54.494	58.171	1.00	21.29
C										
ATOM	377	CE2	TYR	B	49	51.683	55.940	58.742	1.00	21.29
C										
ATOM	378	CZ	TYR	B	49	52.169	54.681	58.484	1.00	21.29
C										
ATOM	379	OH	TYR	B	49	51.317	53.602	58.540	1.00	21.29
O										
ATOM	380	N	GLU	B	50	53.337	58.371	55.747	1.00	21.08
N										
ATOM	381	CA	GLU	B	50	52.485	58.657	54.586	1.00	21.08
C										
ATOM	382	C	GLU	B	50	52.881	59.981	53.964	1.00	21.08
C										
ATOM	383	O	GLU	B	50	52.876	61.011	54.643	1.00	21.08
O										
ATOM	384	CB	GLU	B	50	51.001	58.741	54.969	1.00	21.08
C										
ATOM	385	CG	GLU	B	50	50.437	57.573	55.727	1.00	21.08
C										
ATOM	386	CD	GLU	B	50	49.091	57.885	56.353	1.00	21.08
C										
ATOM	387	OE1	GLU	B	50	48.601	59.016	56.187	1.00	21.08
O										
ATOM	388	OE2	GLU	B	50	48.525	56.994	57.000	1.00	21.08
O										
ATOM	389	N	ALA	B	51	53.117	59.993	52.662	1.00	20.61
N										
ATOM	390	CA	ALA	B	51	54.283	60.616	52.037	1.00	20.61
C										
ATOM	391	C	ALA	B	51	54.784	61.940	52.618	1.00	20.61
C										
ATOM	392	O	ALA	B	51	55.837	62.424	52.197	1.00	20.61

O										
ATOM	393	CB	ALA	B	51	53.974	60.827	50.556	1.00	20.61
C										
ATOM	394	N	SER	B	52	54.057	62.559	53.550	1.00	23.74
N										
ATOM	395	CA	SER	B	52	54.459	63.862	54.065	1.00	23.74
C										
ATOM	396	C	SER	B	52	54.428	63.990	55.585	1.00	23.74
C										
ATOM	397	O	SER	B	52	54.687	65.082	56.098	1.00	23.74
O										
ATOM	398	CB	SER	B	52	53.577	64.955	53.459	1.00	23.74
C										
ATOM	399	OG	SER	B	52	53.475	64.795	52.062	1.00	23.74
O										
ATOM	400	N	SER	B	53	54.129	62.932	56.325	1.00	23.47
N										
ATOM	401	CA	SER	B	53	53.956	63.036	57.769	1.00	23.47
C										
ATOM	402	C	SER	B	53	55.263	62.698	58.478	1.00	23.47
C										
ATOM	403	O	SER	B	53	55.761	61.574	58.368	1.00	23.47
O										
ATOM	404	CB	SER	B	53	52.830	62.123	58.247	1.00	23.47
C										
ATOM	405	OG	SER	B	53	52.673	62.218	59.647	1.00	23.47
O										
ATOM	406	N	LEU	B	54	55.799	63.664	59.219	1.00	27.38
N										
ATOM	407	CA	LEU	B	54	57.081	63.511	59.893	1.00	27.38
C										
ATOM	408	C	LEU	B	54	56.929	62.704	61.175	1.00	27.38
C										
ATOM	409	O	LEU	B	54	55.990	62.908	61.946	1.00	27.38
O										
ATOM	410	CB	LEU	B	54	57.674	64.888	60.201	1.00	27.38
C										
ATOM	411	CG	LEU	B	54	59.016	64.965	60.926	1.00	27.38
C										
ATOM	412	CD1	LEU	B	54	60.134	64.505	60.024	1.00	27.38
C										
ATOM	413	CD2	LEU	B	54	59.274	66.384	61.408	1.00	27.38
C										
ATOM	414	N	GLU	B	55	57.862	61.785	61.404	1.00	29.65
N										
ATOM	415	CA	GLU	B	55	57.807	60.912	62.567	1.00	29.65
C										
ATOM	416	C	GLU	B	55	58.242	61.641	63.833	1.00	29.65
C										
ATOM	417	O	GLU	B	55	59.009	62.604	63.790	1.00	29.65

O										
ATOM	418	CB	GLU	B	55	58.688	59.683	62.359	1.00	29.65
C										
ATOM	419	CG	GLU	B	55	57.959	58.522	61.752	1.00	29.65
C										
ATOM	420	CD	GLU	B	55	56.856	58.016	62.646	1.00	29.65
C										
ATOM	421	OE1	GLU	B	55	55.677	58.188	62.280	1.00	29.65
O										
ATOM	422	OE2	GLU	B	55	57.169	57.454	63.714	1.00	29.65
O										
ATOM	423	N	SER	B	56	57.750	61.157	64.970	1.00	32.55
N										
ATOM	424	CA	SER	B	56	58.068	61.778	66.248	1.00	32.55
C										
ATOM	425	C	SER	B	56	59.507	61.483	66.644	1.00	32.55
C										
ATOM	426	O	SER	B	56	59.999	60.365	66.481	1.00	32.55
O										
ATOM	427	CB	SER	B	56	57.117	61.282	67.332	1.00	32.55
C										
ATOM	428	OG	SER	B	56	57.548	60.040	67.850	1.00	32.55
O										
ATOM	429	N	GLY	B	57	60.180	62.495	67.180	1.00	33.07
N										
ATOM	430	CA	GLY	B	57	61.577	62.370	67.520	1.00	33.07
C										
ATOM	431	C	GLY	B	57	62.533	62.623	66.380	1.00	33.07
C										
ATOM	432	O	GLY	B	57	63.742	62.446	66.560	1.00	33.07
O										
ATOM	433	N	VAL	B	58	62.036	63.023	65.215	1.00	31.11
N										
ATOM	434	CA	VAL	B	58	62.878	63.326	64.062	1.00	31.11
C										
ATOM	435	C	VAL	B	58	63.043	64.839	63.973	1.00	31.11
C										
ATOM	436	O	VAL	B	58	62.062	65.574	64.136	1.00	31.11
O										
ATOM	437	CB	VAL	B	58	62.280	62.744	62.770	1.00	31.11
C										
ATOM	438	CG1	VAL	B	58	63.161	63.063	61.580	1.00	31.11
C										
ATOM	439	CG2	VAL	B	58	62.095	61.246	62.906	1.00	31.11
C										
ATOM	440	N	PRO	B	59	64.252	65.341	63.730	1.00	32.83
N										
ATOM	441	CA	PRO	B	59	64.447	66.791	63.611	1.00	32.83
C										
ATOM	442	C	PRO	B	59	63.606	67.401	62.500	1.00	32.83

C										
ATOM	443	O	PRO	B	59	63.350	66.781	61.468	1.00	32.83
O										
ATOM	444	CB	PRO	B	59	65.942	66.915	63.307	1.00	32.83
C										
ATOM	445	CG	PRO	B	59	66.537	65.732	63.963	1.00	32.83
C										
ATOM	446	CD	PRO	B	59	65.533	64.623	63.822	1.00	32.83
C										
ATOM	447	N	SER	B	60	63.188	68.645	62.723	1.00	34.91
N										
ATOM	448	CA	SER	B	60	62.212	69.305	61.867	1.00	34.91
C										
ATOM	449	C	SER	B	60	62.799	69.844	60.571	1.00	34.91
C										
ATOM	450	O	SER	B	60	62.067	70.470	59.802	1.00	34.91
O										
ATOM	451	CB	SER	B	60	61.534	70.446	62.628	1.00	34.91
C										
ATOM	452	OG	SER	B	60	62.463	71.129	63.448	1.00	34.91
O										
ATOM	453	N	ARG	B	61	64.086	69.633	60.303	1.00	33.76
N										
ATOM	454	CA	ARG	B	61	64.614	70.042	59.010	1.00	33.76
C										
ATOM	455	C	ARG	B	61	64.221	69.085	57.891	1.00	33.76
C										
ATOM	456	O	ARG	B	61	64.312	69.457	56.720	1.00	33.76
O										
ATOM	457	CB	ARG	B	61	66.138	70.189	59.065	1.00	33.76
C										
ATOM	458	CG	ARG	B	61	66.894	69.051	59.721	1.00	33.76
C										
ATOM	459	CD	ARG	B	61	68.383	69.362	59.751	1.00	33.76
C										
ATOM	460	NE	ARG	B	61	69.203	68.207	60.094	1.00	33.76
N										
ATOM	461	CZ	ARG	B	61	69.399	67.772	61.333	1.00	33.76
C										
ATOM	462	NH1	ARG	B	61	68.834	68.395	62.354	1.00	33.76
N										
ATOM	463	NH2	ARG	B	61	70.162	66.714	61.551	1.00	33.76
N										
ATOM	464	N	PHE	B	62	63.762	67.880	58.220	1.00	29.38
N										
ATOM	465	CA	PHE	B	62	63.317	66.918	57.220	1.00	29.38
C										
ATOM	466	C	PHE	B	62	61.852	67.162	56.883	1.00	29.38
C										
ATOM	467	O	PHE	B	62	61.013	67.255	57.781	1.00	29.38

O										
ATOM	468	CB	PHE	B	62	63.498	65.486	57.725	1.00	29.38
C										
ATOM	469	CG	PHE	B	62	64.921	65.107	57.999	1.00	29.38
C										
ATOM	470	CD1	PHE	B	62	65.738	64.655	56.984	1.00	29.38
C										
ATOM	471	CD2	PHE	B	62	65.438	65.191	59.276	1.00	29.38
C										
ATOM	472	CE1	PHE	B	62	67.043	64.303	57.236	1.00	29.38
C										
ATOM	473	CE2	PHE	B	62	66.742	64.838	59.531	1.00	29.38
C										
ATOM	474	CZ	PHE	B	62	67.544	64.397	58.509	1.00	29.38
C										
ATOM	475	N	SER	B	63	61.547	67.264	55.594	1.00	26.49
N										
ATOM	476	CA	SER	B	63	60.167	67.383	55.145	1.00	26.49
C										
ATOM	477	C	SER	B	63	59.981	66.552	53.887	1.00	26.49
C										
ATOM	478	O	SER	B	63	60.920	66.367	53.116	1.00	26.49
O										
ATOM	479	CB	SER	B	63	59.781	68.846	54.885	1.00	26.49
C										
ATOM	480	OG	SER	B	63	60.511	69.379	53.800	1.00	26.49
O										
ATOM	481	N	GLY	B	64	58.773	66.030	53.691	1.00	23.79
N										
ATOM	482	CA	GLY	B	64	58.477	65.242	52.518	1.00	23.79
C										
ATOM	483	C	GLY	B	64	57.237	65.761	51.820	1.00	23.79
C										
ATOM	484	O	GLY	B	64	56.408	66.449	52.410	1.00	23.79
O										
ATOM	485	N	SER	B	65	57.122	65.419	50.543	1.00	22.21
N										
ATOM	486	CA	SER	B	65	55.961	65.839	49.770	1.00	22.21
C										
ATOM	487	C	SER	B	65	55.812	64.924	48.567	1.00	22.21
C										
ATOM	488	O	SER	B	65	56.676	64.099	48.282	1.00	22.21
O										
ATOM	489	CB	SER	B	65	56.075	67.305	49.337	1.00	22.21
C										
ATOM	490	OG	SER	B	65	57.230	67.519	48.554	1.00	22.21
O										
ATOM	491	N	GLY	B	66	54.697	65.074	47.870	1.00	21.12
N										
ATOM	492	CA	GLY	B	66	54.432	64.325	46.660	1.00	21.12

C										
ATOM	493	C	GLY	B	66	53.255	63.381	46.818	1.00	21.12
C										
ATOM	494	O	GLY	B	66	52.734	63.157	47.907	1.00	21.12
O										
ATOM	495	N	SER	B	67	52.862	62.812	45.685	1.00	20.97
N										
ATOM	496	CA	SER	B	67	51.684	61.956	45.646	1.00	20.97
C										
ATOM	497	C	SER	B	67	51.631	61.274	44.293	1.00	20.97
C										
ATOM	498	O	SER	B	67	52.193	61.762	43.313	1.00	20.97
O										
ATOM	499	CB	SER	B	67	50.397	62.750	45.898	1.00	20.97
C										
ATOM	500	OG	SER	B	67	49.294	61.885	46.081	1.00	20.97
O										
ATOM	501	N	GLY	B	68	50.972	60.123	44.255	1.00	19.84
N										
ATOM	502	CA	GLY	B	68	50.794	59.448	42.990	1.00	19.84
C										
ATOM	503	C	GLY	B	68	52.002	58.648	42.560	1.00	19.84
C										
ATOM	504	O	GLY	B	68	52.216	57.529	43.028	1.00	19.84
O										
ATOM	505	N	THR	B	69	52.789	59.209	41.644	1.00	21.79
N										
ATOM	506	CA	THR	B	69	53.972	58.547	41.121	1.00	21.79
C										
ATOM	507	C	THR	B	69	55.263	59.304	41.392	1.00	21.79
C										
ATOM	508	O	THR	B	69	56.332	58.812	41.025	1.00	21.79
O										
ATOM	509	CB	THR	B	69	53.839	58.325	39.608	1.00	21.79
C										
ATOM	510	OG1	THR	B	69	53.462	59.554	38.977	1.00	21.79
O										
ATOM	511	CG2	THR	B	69	52.794	57.274	39.315	1.00	21.79
C										
ATOM	512	N	GLU	B	70	55.205	60.477	42.014	1.00	23.06
N										
ATOM	513	CA	GLU	B	70	56.387	61.294	42.248	1.00	23.06
C										
ATOM	514	C	GLU	B	70	56.380	61.799	43.681	1.00	23.06
C										
ATOM	515	O	GLU	B	70	55.373	62.346	44.148	1.00	23.06
O										
ATOM	516	CB	GLU	B	70	56.441	62.472	41.271	1.00	23.06
C										
ATOM	517	CG	GLU	B	70	57.774	63.189	41.221	1.00	23.06

C										
ATOM	518	CD	GLU	B	70	58.134	63.644	39.818	1.00	23.06
C										
ATOM	519	OE1	GLU	B	70	57.215	64.014	39.060	1.00	23.06
O										
ATOM	520	OE2	GLU	B	70	59.330	63.635	39.473	1.00	23.06
O										
ATOM	521	N	PHE	B	71	57.505	61.619	44.374	1.00	18.78
N										
ATOM	522	CA	PHE	B	71	57.642	61.978	45.773	1.00	18.78
C										
ATOM	523	C	PHE	B	71	59.012	62.604	45.981	1.00	18.78
C										
ATOM	524	O	PHE	B	71	59.954	62.305	45.250	1.00	18.78
O										
ATOM	525	CB	PHE	B	71	57.474	60.746	46.682	1.00	18.78
C										
ATOM	526	CG	PHE	B	71	56.192	59.995	46.458	1.00	18.78
C										
ATOM	527	CD1	PHE	B	71	55.096	60.221	47.265	1.00	18.78
C										
ATOM	528	CD2	PHE	B	71	56.085	59.060	45.446	1.00	18.78
C										
ATOM	529	CE1	PHE	B	71	53.921	59.537	47.062	1.00	18.78
C										
ATOM	530	CE2	PHE	B	71	54.907	58.377	45.240	1.00	18.78
C										
ATOM	531	CZ	PHE	B	71	53.828	58.617	46.052	1.00	18.78
C										
ATOM	532	N	THR	B	72	59.121	63.472	46.979	1.00	20.60
N										
ATOM	533	CA	THR	B	72	60.372	64.153	47.268	1.00	20.60
C										
ATOM	534	C	THR	B	72	60.599	64.222	48.769	1.00	20.60
C										
ATOM	535	O	THR	B	72	59.654	64.272	49.561	1.00	20.60
O										
ATOM	536	CB	THR	B	72	60.407	65.581	46.697	1.00	20.60
C										
ATOM	537	OG1	THR	B	72	59.210	66.272	47.064	1.00	20.60
O										
ATOM	538	CG2	THR	B	72	60.526	65.552	45.192	1.00	20.60
C										
ATOM	539	N	LEU	B	73	61.875	64.233	49.139	1.00	21.84
N										
ATOM	540	CA	LEU	B	73	62.339	64.451	50.499	1.00	21.84
C										
ATOM	541	C	LEU	B	73	63.331	65.606	50.476	1.00	21.84
C										
ATOM	542	O	LEU	B	73	64.261	65.604	49.670	1.00	21.84

O										
ATOM	543	CB	LEU	B	73	62.995	63.181	51.060	1.00	21.84
C										
ATOM	544	CG	LEU	B	73	63.826	63.285	52.337	1.00	21.84
C										
ATOM	545	CD1	LEU	B	73	62.944	63.596	53.522	1.00	21.84
C										
ATOM	546	CD2	LEU	B	73	64.605	62.003	52.578	1.00	21.84
C										
ATOM	547	N	THR	B	74	63.135	66.589	51.347	1.00	27.83
N										
ATOM	548	CA	THR	B	74	63.981	67.772	51.413	1.00	27.83
C										
ATOM	549	C	THR	B	74	64.518	67.928	52.827	1.00	27.83
C										
ATOM	550	O	THR	B	74	63.781	67.752	53.799	1.00	27.83
O										
ATOM	551	CB	THR	B	74	63.202	69.029	51.000	1.00	27.83
C										
ATOM	552	OG1	THR	B	74	62.720	68.874	49.662	1.00	27.83
O										
ATOM	553	CG2	THR	B	74	64.093	70.254	51.062	1.00	27.83
C										
ATOM	554	N	ILE	B	75	65.802	68.266	52.941	1.00	33.61
N										
ATOM	555	CA	ILE	B	75	66.483	68.339	54.225	1.00	33.61
C										
ATOM	556	C	ILE	B	75	66.746	69.782	54.653	1.00	33.61
C										
ATOM	557	O	ILE	B	75	66.668	70.103	55.839	1.00	33.61
O										
ATOM	558	CB	ILE	B	75	67.789	67.520	54.180	1.00	33.61
C										
ATOM	559	CG1	ILE	B	75	67.486	66.095	53.698	1.00	33.61
C										
ATOM	560	CG2	ILE	B	75	68.436	67.488	55.543	1.00	33.61
C										
ATOM	561	CD1	ILE	B	75	68.670	65.175	53.712	1.00	33.61
C										
ATOM	562	N	SER	B	76	67.105	70.645	53.714	1.00	40.69
N										
ATOM	563	CA	SER	B	76	67.111	72.101	53.873	1.00	40.69
C										
ATOM	564	C	SER	B	76	68.231	72.696	54.724	1.00	40.69
C										
ATOM	565	O	SER	B	76	68.462	73.906	54.653	1.00	40.69
O										
ATOM	566	CB	SER	B	76	65.776	72.574	54.462	1.00	40.69
C										
ATOM	567	OG	SER	B	76	64.833	72.847	53.445	1.00	40.69

O										
ATOM	568	N	SER	B	77	68.944	71.890	55.510	1.00	41.56
N										
ATOM	569	CA	SER	B	77	70.230	72.320	56.066	1.00	41.56
C										
ATOM	570	C	SER	B	77	70.973	71.064	56.514	1.00	41.56
C										
ATOM	571	O	SER	B	77	70.715	70.556	57.607	1.00	41.56
O										
ATOM	572	CB	SER	B	77	70.049	73.298	57.215	1.00	41.56
C										
ATOM	573	OG	SER	B	77	69.910	74.622	56.732	1.00	41.56
O										
ATOM	574	N	LEU	B	78	71.896	70.592	55.688	1.00	41.36
N										
ATOM	575	CA	LEU	B	78	72.614	69.372	56.019	1.00	41.36
C										
ATOM	576	C	LEU	B	78	73.476	69.581	57.256	1.00	41.36
C										
ATOM	577	O	LEU	B	78	74.199	70.574	57.364	1.00	41.36
O										
ATOM	578	CB	LEU	B	78	73.481	68.934	54.843	1.00	41.36
C										
ATOM	579	CG	LEU	B	78	72.888	67.915	53.878	1.00	41.36
C										
ATOM	580	CD1	LEU	B	78	73.991	67.284	53.065	1.00	41.36
C										
ATOM	581	CD2	LEU	B	78	72.111	66.852	54.618	1.00	41.36
C										
ATOM	582	N	GLN	B	79	73.395	68.646	58.186	1.00	41.11
N										
ATOM	583	CA	GLN	B	79	74.237	68.594	59.365	1.00	41.11
C										
ATOM	584	C	GLN	B	79	75.222	67.440	59.249	1.00	41.11
C										
ATOM	585	O	GLN	B	79	75.073	66.565	58.390	1.00	41.11
O										
ATOM	586	CB	GLN	B	79	73.376	68.444	60.623	1.00	41.11
C										
ATOM	587	CG	GLN	B	79	72.425	69.601	60.858	1.00	41.11
C										
ATOM	588	CD	GLN	B	79	73.136	70.939	60.955	1.00	41.11
C										
ATOM	589	OE1	GLN	B	79	72.912	71.834	60.143	1.00	41.11
O										
ATOM	590	NE2	GLN	B	79	73.992	71.080	61.955	1.00	41.11
N										
ATOM	591	N	PRO	B	80	76.266	67.417	60.083	1.00	42.90
N										
ATOM	592	CA	PRO	B	80	77.250	66.328	59.979	1.00	42.90

C										
ATOM	593	C	PRO	B	80	76.664	64.938	60.155	1.00	42.90
C										
ATOM	594	O	PRO	B	80	77.205	63.979	59.597	1.00	42.90
O										
ATOM	595	CB	PRO	B	80	78.248	66.665	61.093	1.00	42.90
C										
ATOM	596	CG	PRO	B	80	78.184	68.136	61.192	1.00	42.90
C										
ATOM	597	CD	PRO	B	80	76.747	68.494	60.968	1.00	42.90
C										
ATOM	598	N	ASP	B	81	75.581	64.795	60.912	1.00	43.30
N										
ATOM	599	CA	ASP	B	81	74.966	63.491	61.120	1.00	43.30
C										
ATOM	600	C	ASP	B	81	74.019	63.084	59.998	1.00	43.30
C										
ATOM	601	O	ASP	B	81	73.502	61.963	60.029	1.00	43.30
O										
ATOM	602	CB	ASP	B	81	74.207	63.477	62.446	1.00	43.30
C										
ATOM	603	CG	ASP	B	81	75.117	63.256	63.632	1.00	43.30
C										
ATOM	604	OD1	ASP	B	81	76.274	62.837	63.422	1.00	43.30
O										
ATOM	605	OD2	ASP	B	81	74.676	63.499	64.773	1.00	43.30
O										
ATOM	606	N	ASP	B	82	73.776	63.949	59.020	1.00	37.05
N										
ATOM	607	CA	ASP	B	82	72.786	63.688	57.986	1.00	37.05
C										
ATOM	608	C	ASP	B	82	73.371	63.047	56.739	1.00	37.05
C										
ATOM	609	O	ASP	B	82	72.630	62.801	55.784	1.00	37.05
O										
ATOM	610	CB	ASP	B	82	72.075	64.986	57.604	1.00	37.05
C										
ATOM	611	CG	ASP	B	82	71.368	65.622	58.770	1.00	37.05
C										
ATOM	612	OD1	ASP	B	82	71.267	64.974	59.826	1.00	37.05
O										
ATOM	613	OD2	ASP	B	82	70.912	66.772	58.632	1.00	37.05
O										
ATOM	614	N	PHE	B	83	74.667	62.769	56.716	1.00	38.01
N										
ATOM	615	CA	PHE	B	83	75.288	62.151	55.553	1.00	38.01
C										
ATOM	616	C	PHE	B	83	75.107	60.643	55.661	1.00	38.01
C										
ATOM	617	O	PHE	B	83	75.739	59.989	56.494	1.00	38.01

O										
ATOM	618	CB	PHE	B	83	76.754	62.562	55.462	1.00	38.01
C										
ATOM	619	CG	PHE	B	83	76.934	64.020	55.172	1.00	38.01
C										
ATOM	620	CD1	PHE	B	83	76.995	64.474	53.871	1.00	38.01
C										
ATOM	621	CD2	PHE	B	83	76.997	64.941	56.200	1.00	38.01
C										
ATOM	622	CE1	PHE	B	83	77.141	65.815	53.600	1.00	38.01
C										
ATOM	623	CE2	PHE	B	83	77.145	66.283	55.932	1.00	38.01
C										
ATOM	624	CZ	PHE	B	83	77.216	66.718	54.632	1.00	38.01
C										
ATOM	625	N	THR	B	84	74.228	60.097	54.826	1.00	28.30
N										
ATOM	626	CA	THR	B	84	73.740	58.737	54.997	1.00	28.30
C										
ATOM	627	C	THR	B	84	73.125	58.277	53.683	1.00	28.30
C										
ATOM	628	O	THR	B	84	73.097	59.017	52.698	1.00	28.30
O										
ATOM	629	CB	THR	B	84	72.728	58.666	56.140	1.00	28.30
C										
ATOM	630	N	THR	B	85	72.631	57.042	53.673	1.00	22.95
N										
ATOM	631	CA	THR	B	85	71.894	56.518	52.532	1.00	22.95
C										
ATOM	632	C	THR	B	85	70.404	56.633	52.819	1.00	22.95
C										
ATOM	633	O	THR	B	85	69.940	56.216	53.878	1.00	22.95
O										
ATOM	634	CB	THR	B	85	72.262	55.062	52.246	1.00	22.95
C										
ATOM	635	OG1	THR	B	85	73.684	54.939	52.137	1.00	22.95
O										
ATOM	636	CG2	THR	B	85	71.631	54.608	50.950	1.00	22.95
C										
ATOM	637	N	TYR	B	86	69.659	57.204	51.884	1.00	20.45
N										
ATOM	638	CA	TYR	B	86	68.228	57.406	52.056	1.00	20.45
C										
ATOM	639	C	TYR	B	86	67.467	56.465	51.134	1.00	20.45
C										
ATOM	640	O	TYR	B	86	67.796	56.350	49.953	1.00	20.45
O										
ATOM	641	CB	TYR	B	86	67.851	58.862	51.781	1.00	20.45
C										
ATOM	642	CG	TYR	B	86	68.410	59.799	52.822	1.00	20.45

C										
ATOM	643	CD1	TYR	B	86	67.682	60.122	53.947	1.00	20.45
C										
ATOM	644	CD2	TYR	B	86	69.682	60.335	52.688	1.00	20.45
C										
ATOM	645	CE1	TYR	B	86	68.195	60.969	54.907	1.00	20.45
C										
ATOM	646	CE2	TYR	B	86	70.200	61.178	53.641	1.00	20.45
C										
ATOM	647	CZ	TYR	B	86	69.457	61.489	54.747	1.00	20.45
C										
ATOM	648	OH	TYR	B	86	69.976	62.332	55.698	1.00	20.45
O										
ATOM	649	N	PHE	B	87	66.459	55.787	51.682	1.00	15.92
N										
ATOM	650	CA	PHE	B	87	65.644	54.827	50.949	1.00	15.92
C										
ATOM	651	C	PHE	B	87	64.183	55.263	50.972	1.00	15.92
C										
ATOM	652	O	PHE	B	87	63.713	55.807	51.966	1.00	15.92
O										
ATOM	653	CB	PHE	B	87	65.745	53.420	51.562	1.00	15.92
C										
ATOM	654	CG	PHE	B	87	67.107	52.806	51.476	1.00	15.92
C										
ATOM	655	CD1	PHE	B	87	67.543	52.230	50.305	1.00	15.92
C										
ATOM	656	CD2	PHE	B	87	67.938	52.779	52.579	1.00	15.92
C										
ATOM	657	CE1	PHE	B	87	68.794	51.660	50.226	1.00	15.92
C										
ATOM	658	CE2	PHE	B	87	69.187	52.198	52.500	1.00	15.92
C										
ATOM	659	CZ	PHE	B	87	69.609	51.648	51.323	1.00	15.92
C										
ATOM	660	N	CYS	B	88	63.467	55.025	49.880	1.00	15.34
N										
ATOM	661	CA	CYS	B	88	62.012	55.128	49.866	1.00	15.34
C										
ATOM	662	C	CYS	B	88	61.435	53.721	49.759	1.00	15.34
C										
ATOM	663	O	CYS	B	88	62.026	52.851	49.121	1.00	15.34
O										
ATOM	664	CB	CYS	B	88	61.502	56.018	48.709	1.00	15.34
C										
ATOM	665	SG	CYS	B	88	62.031	55.521	47.042	1.00	15.34
S										
ATOM	666	N	GLN	B	89	60.305	53.488	50.415	1.00	13.02
N										
ATOM	667	CA	GLN	B	89	59.610	52.211	50.335	1.00	13.02

C										
ATOM	668	C	GLN	B	89	58.124	52.466	50.135	1.00	13.02
C										
ATOM	669	O	GLN	B	89	57.548	53.320	50.803	1.00	13.02
O										
ATOM	670	CB	GLN	B	89	59.821	51.363	51.606	1.00	13.02
C										
ATOM	671	CG	GLN	B	89	59.210	49.969	51.525	1.00	13.02
C										
ATOM	672	CD	GLN	B	89	59.282	49.191	52.828	1.00	13.02
C										
ATOM	673	OE1	GLN	B	89	59.306	49.761	53.908	1.00	13.02
O										
ATOM	674	NE2	GLN	B	89	59.319	47.872	52.719	1.00	13.02
N										
ATOM	675	N	GLN	B	90	57.499	51.722	49.234	1.00	12.89
N										
ATOM	676	CA	GLN	B	90	56.051	51.788	49.090	1.00	12.89
C										
ATOM	677	C	GLN	B	90	55.403	50.651	49.868	1.00	12.89
C										
ATOM	678	O	GLN	B	90	55.967	49.565	50.000	1.00	12.89
O										
ATOM	679	CB	GLN	B	90	55.626	51.736	47.617	1.00	12.89
C										
ATOM	680	CG	GLN	B	90	55.934	50.437	46.882	1.00	12.89
C										
ATOM	681	CD	GLN	B	90	54.824	49.405	46.987	1.00	12.89
C										
ATOM	682	OE1	GLN	B	90	53.703	49.719	47.368	1.00	12.89
O										
ATOM	683	NE2	GLN	B	90	55.141	48.166	46.656	1.00	12.89
N										
ATOM	684	N	TYR	B	91	54.214	50.916	50.404	1.00	13.84
N										
ATOM	685	CA	TYR	B	91	53.460	49.888	51.106	1.00	13.84
C										
ATOM	686	C	TYR	B	91	52.007	49.865	50.646	1.00	13.84
C										
ATOM	687	O	TYR	B	91	51.107	49.560	51.423	1.00	13.84
O										
ATOM	688	CB	TYR	B	91	53.559	50.060	52.622	1.00	13.84
C										
ATOM	689	CG	TYR	B	91	53.193	51.422	53.164	1.00	13.84
C										
ATOM	690	CD1	TYR	B	91	51.940	51.655	53.707	1.00	13.84
C										
ATOM	691	CD2	TYR	B	91	54.113	52.461	53.179	1.00	13.84
C										
ATOM	692	CE1	TYR	B	91	51.604	52.881	54.224	1.00	13.84

C										
ATOM	693	CE2	TYR	B	91	53.784	53.695	53.695	1.00	13.84
C										
ATOM	694	CZ	TYR	B	91	52.525	53.898	54.216	1.00	13.84
C										
ATOM	695	OH	TYR	B	91	52.178	55.119	54.736	1.00	13.84
O										
ATOM	696	N	ASN	B	92	51.783	50.181	49.372	1.00	14.17
N										
ATOM	697	CA	ASN	B	92	50.462	50.056	48.768	1.00	14.17
C										
ATOM	698	C	ASN	B	92	50.034	48.594	48.672	1.00	14.17
C										
ATOM	699	O	ASN	B	92	48.903	48.245	49.022	1.00	14.17
O										
ATOM	700	CB	ASN	B	92	50.487	50.723	47.391	1.00	14.17
C										
ATOM	701	CG	ASN	B	92	49.190	50.575	46.636	1.00	14.17
C										
ATOM	702	OD1	ASN	B	92	48.278	51.368	46.799	1.00	14.17
O										
ATOM	703	ND2	ASN	B	92	49.113	49.561	45.791	1.00	14.17
N										
ATOM	704	N	SER	B	93	50.932	47.722	48.220	1.00	14.02
N										
ATOM	705	CA	SER	B	93	50.613	46.311	48.036	1.00	14.02
C										
ATOM	706	C	SER	B	93	51.900	45.498	48.032	1.00	14.02
C										
ATOM	707	O	SER	B	93	52.987	46.029	47.807	1.00	14.02
O										
ATOM	708	CB	SER	B	93	49.829	46.079	46.739	1.00	14.02
C										
ATOM	709	OG	SER	B	93	50.425	46.763	45.657	1.00	14.02
O										
ATOM	710	N	TYR	B	94	51.754	44.196	48.275	1.00	14.41
N										
ATOM	711	CA	TYR	B	94	52.884	43.276	48.283	1.00	14.41
C										
ATOM	712	C	TYR	B	94	53.453	43.090	46.877	1.00	14.41
C										
ATOM	713	O	TYR	B	94	52.714	43.122	45.894	1.00	14.41
O										
ATOM	714	CB	TYR	B	94	52.463	41.908	48.807	1.00	14.41
C										
ATOM	715	CG	TYR	B	94	51.971	41.861	50.228	1.00	14.41
C										
ATOM	716	CD1	TYR	B	94	52.680	42.458	51.252	1.00	14.41
C										
ATOM	717	CD2	TYR	B	94	50.803	41.188	50.547	1.00	14.41

C										
ATOM	718	CE1	TYR	B	94	52.236	42.398	52.548	1.00	14.41
C										
ATOM	719	CE2	TYR	B	94	50.355	41.125	51.837	1.00	14.41
C										
ATOM	720	CZ	TYR	B	94	51.074	41.726	52.834	1.00	14.41
C										
ATOM	721	OH	TYR	B	94	50.625	41.666	54.128	1.00	14.41
O										
ATOM	722	N	PRO	B	95	54.772	42.886	46.750	1.00	14.04
N										
ATOM	723	CA	PRO	B	95	55.832	43.025	47.754	1.00	14.04
C										
ATOM	724	C	PRO	B	95	56.087	44.492	48.077	1.00	14.04
C										
ATOM	725	O	PRO	B	95	55.923	45.319	47.195	1.00	14.04
O										
ATOM	726	CB	PRO	B	95	57.053	42.399	47.071	1.00	14.04
C										
ATOM	727	CG	PRO	B	95	56.754	42.417	45.638	1.00	14.04
C										
ATOM	728	CD	PRO	B	95	55.276	42.301	45.498	1.00	14.04
C										
ATOM	729	N	TRP	B	96	56.474	44.806	49.310	1.00	13.16
N										
ATOM	730	CA	TRP	B	96	56.734	46.189	49.715	1.00	13.16
C										
ATOM	731	C	TRP	B	96	58.114	46.605	49.216	1.00	13.16
C										
ATOM	732	O	TRP	B	96	59.109	46.491	49.929	1.00	13.16
O										
ATOM	733	CB	TRP	B	96	56.656	46.339	51.227	1.00	13.16
C										
ATOM	734	CG	TRP	B	96	55.309	46.189	51.843	1.00	13.16
C										
ATOM	735	CD1	TRP	B	96	54.103	46.152	51.210	1.00	13.16
C										
ATOM	736	CD2	TRP	B	96	55.035	46.081	53.239	1.00	13.16
C										
ATOM	737	NE1	TRP	B	96	53.094	46.018	52.130	1.00	13.16
N										
ATOM	738	CE2	TRP	B	96	53.642	45.977	53.384	1.00	13.16
C										
ATOM	739	CE3	TRP	B	96	55.835	46.065	54.384	1.00	13.16
C										
ATOM	740	CZ2	TRP	B	96	53.034	45.852	54.624	1.00	13.16
C										
ATOM	741	CZ3	TRP	B	96	55.230	45.946	55.611	1.00	13.16
C										
ATOM	742	CH2	TRP	B	96	53.844	45.839	55.725	1.00	13.16

C										
ATOM	743	N	THR	B	97	58.171	47.143	48.002	1.00	13.09
N										
ATOM	744	CA	THR	B	97	59.442	47.365	47.325	1.00	13.09
C										
ATOM	745	C	THR	B	97	60.155	48.623	47.807	1.00	13.09
C										
ATOM	746	O	THR	B	97	59.536	49.659	48.047	1.00	13.09
O										
ATOM	747	CB	THR	B	97	59.232	47.443	45.813	1.00	13.09
C										
ATOM	748	OG1	THR	B	97	58.003	48.118	45.523	1.00	13.09
O										
ATOM	749	CG2	THR	B	97	59.186	46.052	45.223	1.00	13.09
C										
ATOM	750	N	PHE	B	98	61.474	48.512	47.941	1.00	13.15
N										
ATOM	751	CA	PHE	B	98	62.358	49.623	48.259	1.00	13.15
C										
ATOM	752	C	PHE	B	98	62.931	50.228	46.983	1.00	13.15
C										
ATOM	753	O	PHE	B	98	63.063	49.554	45.963	1.00	13.15
O										
ATOM	754	CB	PHE	B	98	63.533	49.162	49.126	1.00	13.15
C										
ATOM	755	CG	PHE	B	98	63.168	48.754	50.524	1.00	13.15
C										
ATOM	756	CD1	PHE	B	98	63.180	49.675	51.550	1.00	13.15
C										
ATOM	757	CD2	PHE	B	98	62.890	47.435	50.824	1.00	13.15
C										
ATOM	758	CE1	PHE	B	98	62.887	49.297	52.836	1.00	13.15
C										
ATOM	759	CE2	PHE	B	98	62.597	47.056	52.110	1.00	13.15
C										
ATOM	760	CZ	PHE	B	98	62.596	47.987	53.114	1.00	13.15
C										
ATOM	761	N	GLY	B	99	63.307	51.498	47.061	1.00	15.83
N										
ATOM	762	CA	GLY	B	99	64.170	52.077	46.052	1.00	15.83
C										
ATOM	763	C	GLY	B	99	65.599	51.581	46.204	1.00	15.83
C										
ATOM	764	O	GLY	B	99	65.947	50.876	47.146	1.00	15.83
O										
ATOM	765	N	GLN	B	100	66.450	51.955	45.252	1.00	19.59
N										
ATOM	766	CA	GLN	B	100	67.829	51.484	45.285	1.00	19.59
C										
ATOM	767	C	GLN	B	100	68.721	52.334	46.179	1.00	19.59

C									
ATOM	768	O	GLN B 100	69.891	51.991	46.361	1.00	19.59	
O									
ATOM	769	CB	GLN B 100	68.398	51.408	43.862	1.00	19.59	
C									
ATOM	770	CG	GLN B 100	69.067	52.671	43.358	1.00	19.59	
C									
ATOM	771	CD	GLN B 100	68.083	53.768	43.014	1.00	19.59	
C									
ATOM	772	OE1	GLN B 100	66.874	53.568	43.045	1.00	19.59	
O									
ATOM	773	NE2	GLN B 100	68.605	54.939	42.680	1.00	19.59	
N									
ATOM	774	N	GLY B 101	68.199	53.414	46.752	1.00	19.60	
N									
ATOM	775	CA	GLY B 101	68.930	54.195	47.728	1.00	19.60	
C									
ATOM	776	C	GLY B 101	69.662	55.391	47.154	1.00	19.60	
C									
ATOM	777	O	GLY B 101	70.191	55.327	46.044	1.00	19.60	
O									
ATOM	778	N	THR B 102	69.690	56.487	47.904	1.00	23.07	
N									
ATOM	779	CA	THR B 102	70.430	57.688	47.534	1.00	23.07	
C									
ATOM	780	C	THR B 102	71.477	57.946	48.603	1.00	23.07	
C									
ATOM	781	O	THR B 102	71.134	58.194	49.760	1.00	23.07	
O									
ATOM	782	CB	THR B 102	69.506	58.900	47.398	1.00	23.07	
C									
ATOM	783	OG1	THR B 102	68.733	58.779	46.202	1.00	23.07	
O									
ATOM	784	CG2	THR B 102	70.322	60.197	47.345	1.00	23.07	
C									
ATOM	785	N	LYS B 103	72.747	57.894	48.212	1.00	31.08	
N									
ATOM	786	CA	LYS B 103	73.848	58.171	49.121	1.00	31.08	
C									
ATOM	787	C	LYS B 103	74.134	59.667	49.133	1.00	31.08	
C									
ATOM	788	O	LYS B 103	74.293	60.279	48.075	1.00	31.08	
O									
ATOM	789	CB	LYS B 103	75.103	57.408	48.699	1.00	31.08	
C									
ATOM	790	CG	LYS B 103	74.894	55.924	48.457	1.00	31.08	
C									
ATOM	791	CD	LYS B 103	76.137	55.210	47.901	1.00	31.08	
C									
ATOM	792	CE	LYS B 103	77.483	55.683	48.464	1.00	31.08	

C									
ATOM	793	NZ	LYS	B	103	77.495	56.129	49.888	1.00 31.08
N									
ATOM	794	N	VAL	B	104	74.197	60.248	50.324	1.00 33.71
N									
ATOM	795	CA	VAL	B	104	74.598	61.640	50.505	1.00 33.71
C									
ATOM	796	C	VAL	B	104	75.939	61.644	51.224	1.00 33.71
C									
ATOM	797	O	VAL	B	104	76.036	61.193	52.371	1.00 33.71
O									
ATOM	798	CB	VAL	B	104	73.550	62.441	51.287	1.00 33.71
C									
ATOM	799	CG1	VAL	B	104	74.014	63.877	51.470	1.00 33.71
C									
ATOM	800	CG2	VAL	B	104	72.215	62.402	50.568	1.00 33.71
C									
ATOM	801	N	GLU	B	105	76.967	62.166	50.562	1.00 39.69
N									
ATOM	802	CA	GLU	B	105	78.334	62.097	51.056	1.00 39.69
C									
ATOM	803	C	GLU	B	105	78.905	63.495	51.250	1.00 39.69
C									
ATOM	804	O	GLU	B	105	78.603	64.418	50.490	1.00 39.69
O									
ATOM	805	CB	GLU	B	105	79.222	61.311	50.098	1.00 39.69
C									
ATOM	806	CG	GLU	B	105	78.546	60.107	49.492	1.00 39.69
C									
ATOM	807	CD	GLU	B	105	79.499	58.967	49.268	1.00 39.69
C									
ATOM	808	OE1	GLU	B	105	79.824	58.268	50.246	1.00 39.69
O									
ATOM	809	OE2	GLU	B	105	79.926	58.771	48.114	1.00 39.69
O									
ATOM	810	N	ILE	B	106	79.741	63.633	52.274	1.00 42.73
N									
ATOM	811	CA	ILE	B	106	80.331	64.921	52.621	1.00 42.73
C									
ATOM	812	C	ILE	B	106	81.456	65.244	51.650	1.00 42.73
C									
ATOM	813	O	ILE	B	106	82.260	64.377	51.289	1.00 42.73
O									
ATOM	814	CB	ILE	B	106	80.824	64.912	54.078	1.00 42.73
C									
ATOM	815	CG1	ILE	B	106	81.488	66.244	54.426	1.00 42.73
C									
ATOM	816	CG2	ILE	B	106	81.779	63.756	54.320	1.00 42.73
C									
ATOM	817	CD1	ILE	B	106	81.140	66.745	55.801	1.00 42.73

ATOM C	843	CD2	LEU	C	335	44.751	35.620	36.539	1.00	40.25
ATOM N	844	N	CYS	C	336	43.142	40.104	35.086	1.00	34.46
ATOM C	845	CA	CYS	C	336	43.074	41.336	35.853	1.00	34.46
ATOM C	846	C	CYS	C	336	43.769	41.109	37.198	1.00	34.46
ATOM O	847	O	CYS	C	336	43.595	40.054	37.810	1.00	34.46
ATOM C	848	CB	CYS	C	336	41.613	41.735	36.088	1.00	34.46
ATOM S	849	SG	CYS	C	336	40.465	41.763	34.648	1.00	34.46
ATOM N	850	N	PRO	C	337	44.572	42.053	37.675	1.00	27.90
ATOM C	851	CA	PRO	C	337	45.272	41.839	38.965	1.00	27.90
ATOM C	852	C	PRO	C	337	44.478	42.260	40.204	1.00	27.90
ATOM O	853	O	PRO	C	337	44.733	43.277	40.842	1.00	27.90
ATOM C	854	CB	PRO	C	337	46.531	42.691	38.802	1.00	27.90
ATOM C	855	CG	PRO	C	337	46.100	43.807	37.929	1.00	27.90
ATOM C	856	CD	PRO	C	337	45.005	43.297	37.020	1.00	27.90
ATOM N	857	N	PHE	C	338	43.490	41.441	40.575	1.00	21.81
ATOM C	858	CA	PHE	C	338	42.622	41.782	41.698	1.00	21.81
ATOM C	859	C	PHE	C	338	43.308	41.612	43.045	1.00	21.81
ATOM O	860	O	PHE	C	338	42.921	42.278	44.008	1.00	21.81
ATOM C	861	CB	PHE	C	338	41.353	40.930	41.665	1.00	21.81
ATOM C	862	CG	PHE	C	338	40.351	41.374	40.643	1.00	21.81
ATOM C	863	CD1	PHE	C	338	40.505	42.564	39.969	1.00	21.81
ATOM C	864	CD2	PHE	C	338	39.246	40.596	40.362	1.00	21.81
ATOM C	865	CE1	PHE	C	338	39.584	42.969	39.034	1.00	21.81
ATOM C	866	CE2	PHE	C	338	38.321	41.002	39.429	1.00	21.81
ATOM C	867	CZ	PHE	C	338	38.494	42.185	38.762	1.00	21.81

ATOM N	868	N	GLY C 339	44.316	40.744	43.134	1.00	20.69
ATOM C	869	CA	GLY C 339	44.974	40.513	44.407	1.00	20.69
ATOM C	870	C	GLY C 339	45.614	41.755	44.983	1.00	20.69
ATOM O	871	O	GLY C 339	45.632	41.941	46.199	1.00	20.69
ATOM N	872	N	GLU C 340	46.136	42.623	44.126	1.00	20.09
ATOM C	873	CA	GLU C 340	46.742	43.860	44.585	1.00	20.09
ATOM C	874	C	GLU C 340	45.715	44.949	44.866	1.00	20.09
ATOM O	875	O	GLU C 340	46.090	46.018	45.349	1.00	20.09
ATOM C	876	CB	GLU C 340	47.774	44.335	43.560	1.00	20.09
ATOM C	877	CG	GLU C 340	48.991	43.421	43.486	1.00	20.09
ATOM C	878	CD	GLU C 340	49.932	43.776	42.361	1.00	20.09
ATOM O	879	OE1	GLU C 340	50.605	44.818	42.451	1.00	20.09
ATOM O	880	OE2	GLU C 340	49.999	43.008	41.385	1.00	20.09
ATOM N	881	N	VAL C 341	44.441	44.708	44.583	1.00	16.71
ATOM C	882	CA	VAL C 341	43.366	45.603	44.995	1.00	16.71
ATOM C	883	C	VAL C 341	42.706	45.113	46.274	1.00	16.71
ATOM O	884	O	VAL C 341	42.585	45.857	47.243	1.00	16.71
ATOM C	885	CB	VAL C 341	42.331	45.760	43.859	1.00	16.71
ATOM C	886	CG1	VAL C 341	41.171	46.630	44.315	1.00	16.71
ATOM C	887	CG2	VAL C 341	42.983	46.344	42.623	1.00	16.71
ATOM N	888	N	PHE C 342	42.297	43.844	46.296	1.00	15.85
ATOM C	889	CA	PHE C 342	41.591	43.298	47.450	1.00	15.85
ATOM C	890	C	PHE C 342	42.514	43.110	48.648	1.00	15.85
ATOM O	891	O	PHE C 342	42.107	43.354	49.787	1.00	15.85
ATOM C	892	CB	PHE C 342	40.926	41.977	47.074	1.00	15.85

ATOM C	918	CG2	THR	C	345	49.738	44.851	52.641	1.00	13.82
ATOM N	919	N	ARG	C	346	47.329	49.009	52.287	1.00	14.01
ATOM C	920	CA	ARG	C	346	46.786	50.269	52.783	1.00	14.01
ATOM C	921	C	ARG	C	346	45.535	50.583	51.979	1.00	14.01
ATOM O	922	O	ARG	C	346	45.601	50.656	50.752	1.00	14.01
ATOM C	923	CB	ARG	C	346	47.803	51.410	52.653	1.00	14.01
ATOM C	924	CG	ARG	C	346	47.887	52.352	53.848	1.00	14.01
ATOM C	925	CD	ARG	C	346	46.561	52.959	54.265	1.00	14.01
ATOM N	926	NE	ARG	C	346	46.756	54.151	55.088	1.00	14.01
ATOM C	927	CZ	ARG	C	346	45.790	54.995	55.426	1.00	14.01
ATOM N	928	NH1	ARG	C	346	44.548	54.784	55.021	1.00	14.01
ATOM N	929	NH2	ARG	C	346	46.060	56.055	56.167	1.00	14.01
ATOM N	930	N	PHE	C	347	44.409	50.772	52.660	1.00	12.63
ATOM C	931	CA	PHE	C	347	43.157	51.172	52.029	1.00	12.63
ATOM C	932	C	PHE	C	347	42.904	52.658	52.260	1.00	12.63
ATOM O	933	O	PHE	C	347	43.407	53.254	53.210	1.00	12.63
ATOM C	934	CB	PHE	C	347	41.984	50.348	52.571	1.00	12.63
ATOM C	935	CG	PHE	C	347	41.639	49.153	51.727	1.00	12.63
ATOM C	936	CD1	PHE	C	347	42.543	48.122	51.562	1.00	12.63
ATOM C	937	CD2	PHE	C	347	40.407	49.060	51.100	1.00	12.63
ATOM C	938	CE1	PHE	C	347	42.230	47.027	50.791	1.00	12.63
ATOM C	939	CE2	PHE	C	347	40.093	47.964	50.328	1.00	12.63
ATOM C	940	CZ	PHE	C	347	41.006	46.947	50.172	1.00	12.63
ATOM N	941	N	ALA	C	348	42.105	53.251	51.378	1.00	12.03
ATOM C	942	CA	ALA	C	348	41.851	54.685	51.390	1.00	12.03

ATOM C	943	C	ALA C 348	40.618	55.047	52.218	1.00	12.03
ATOM O	944	O	ALA C 348	39.741	54.222	52.466	1.00	12.03
ATOM C	945	CB	ALA C 348	41.670	55.202	49.964	1.00	12.03
ATOM N	946	N	SER C 349	40.570	56.310	52.643	1.00	13.70
ATOM C	947	CA	SER C 349	39.367	56.884	53.235	1.00	13.70
ATOM C	948	C	SER C 349	38.301	57.094	52.165	1.00	13.70
ATOM O	949	O	SER C 349	38.605	57.281	50.989	1.00	13.70
ATOM C	950	CB	SER C 349	39.679	58.222	53.909	1.00	13.70
ATOM O	951	OG	SER C 349	40.486	58.052	55.056	1.00	13.70
ATOM N	952	N	VAL C 350	37.035	57.089	52.589	1.00	12.50
ATOM C	953	CA	VAL C 350	35.945	57.150	51.617	1.00	12.50
ATOM C	954	C	VAL C 350	35.905	58.496	50.889	1.00	12.50
ATOM O	955	O	VAL C 350	35.525	58.553	49.717	1.00	12.50
ATOM C	956	CB	VAL C 350	34.601	56.811	52.292	1.00	12.50
ATOM C	957	CG1	VAL C 350	34.210	57.867	53.319	1.00	12.50
ATOM C	958	CG2	VAL C 350	33.499	56.619	51.246	1.00	12.50
ATOM N	959	N	TYR C 351	36.290	59.596	51.546	1.00	15.24
ATOM C	960	CA	TYR C 351	36.325	60.874	50.837	1.00	15.24
ATOM C	961	C	TYR C 351	37.436	60.903	49.792	1.00	15.24
ATOM O	962	O	TYR C 351	37.281	61.540	48.748	1.00	15.24
ATOM C	963	CB	TYR C 351	36.462	62.040	51.826	1.00	15.24
ATOM C	964	CG	TYR C 351	37.873	62.387	52.251	1.00	15.24
ATOM C	965	CD1	TYR C 351	38.574	63.416	51.636	1.00	15.24
ATOM C	966	CD2	TYR C 351	38.492	61.708	53.285	1.00	15.24
ATOM C	967	CE1	TYR C 351	39.855	63.738	52.027	1.00	15.24

ATOM O	993	O	ASN	C	354	39.927	53.396	44.349	1.00	16.15
ATOM C	994	CB	ASN	C	354	42.325	54.237	46.136	1.00	16.15
ATOM C	995	CG	ASN	C	354	43.643	54.150	45.388	1.00	16.15
ATOM O	996	OD1	ASN	C	354	43.830	54.771	44.349	1.00	16.15
ATOM N	997	ND2	ASN	C	354	44.571	53.380	45.934	1.00	16.15
ATOM N	998	N	ARG	C	355	41.177	54.687	42.995	1.00	17.19
ATOM C	999	CA	ARG	C	355	40.704	54.062	41.763	1.00	17.19
ATOM C	1000	C	ARG	C	355	41.864	53.434	40.999	1.00	17.19
ATOM O	1001	O	ARG	C	355	42.914	54.058	40.833	1.00	17.19
ATOM C	1002	CB	ARG	C	355	39.976	55.069	40.866	1.00	17.19
ATOM C	1003	CG	ARG	C	355	39.820	54.613	39.418	1.00	17.19
ATOM C	1004	CD	ARG	C	355	38.746	55.391	38.678	1.00	17.19
ATOM N	1005	NE	ARG	C	355	37.409	54.966	39.074	1.00	17.19
ATOM C	1006	CZ	ARG	C	355	36.299	55.256	38.411	1.00	17.19
ATOM N	1007	NH1	ARG	C	355	36.352	55.978	37.301	1.00	17.19
ATOM N	1008	NH2	ARG	C	355	35.132	54.819	38.850	1.00	17.19
ATOM N	1009	N	LYS	C	356	41.666	52.201	40.544	1.00	23.19
ATOM C	1010	CA	LYS	C	356	42.578	51.517	39.639	1.00	23.19
ATOM C	1011	C	LYS	C	356	41.839	51.199	38.349	1.00	23.19
ATOM O	1012	O	LYS	C	356	40.653	50.876	38.370	1.00	23.19
ATOM C	1013	CB	LYS	C	356	43.121	50.232	40.258	1.00	23.19
ATOM C	1014	CG	LYS	C	356	43.866	50.444	41.558	1.00	23.19
ATOM C	1015	CD	LYS	C	356	45.315	50.888	41.342	1.00	23.19
ATOM C	1016	CE	LYS	C	356	46.109	50.000	40.384	1.00	23.19
ATOM N	1017	NZ	LYS	C	356	45.660	48.582	40.316	1.00	23.19

ATOM N	1018	N	ARG C 357	42.530	51.300	37.222	1.00	33.55
ATOM C	1019	CA	ARG C 357	41.930	51.006	35.929	1.00	33.55
ATOM C	1020	C	ARG C 357	42.712	49.886	35.261	1.00	33.55
ATOM O	1021	O	ARG C 357	43.944	49.882	35.297	1.00	33.55
ATOM C	1022	CB	ARG C 357	41.906	52.245	35.036	1.00	33.55
ATOM C	1023	CG	ARG C 357	41.234	52.015	33.700	1.00	33.55
ATOM C	1024	CD	ARG C 357	41.345	53.233	32.810	1.00	33.55
ATOM N	1025	NE	ARG C 357	42.734	53.519	32.474	1.00	33.55
ATOM C	1026	CZ	ARG C 357	43.211	53.544	31.235	1.00	33.55
ATOM N	1027	NH1	ARG C 357	42.408	53.301	30.209	1.00	33.55
ATOM N	1028	NH2	ARG C 357	44.491	53.814	31.022	1.00	33.55
ATOM N	1029	N	ILE C 358	41.998	48.929	34.673	1.00	34.13
ATOM C	1030	CA	ILE C 358	42.604	47.834	33.925	1.00	34.13
ATOM C	1031	C	ILE C 358	41.889	47.736	32.588	1.00	34.13
ATOM O	1032	O	ILE C 358	40.664	47.856	32.529	1.00	34.13
ATOM C	1033	CB	ILE C 358	42.523	46.497	34.684	1.00	34.13
ATOM C	1034	CG1	ILE C 358	42.962	46.674	36.134	1.00	34.13
ATOM C	1035	CG2	ILE C 358	43.412	45.470	34.019	1.00	34.13
ATOM C	1036	CD1	ILE C 358	41.965	46.170	37.134	1.00	34.13
ATOM N	1037	N	SER C 359	42.642	47.540	31.514	1.00	39.74
ATOM C	1038	CA	SER C 359	42.071	47.506	30.176	1.00	39.74
ATOM C	1039	C	SER C 359	42.231	46.126	29.561	1.00	39.74
ATOM O	1040	O	SER C 359	43.252	45.464	29.765	1.00	39.74
ATOM C	1041	CB	SER C 359	42.725	48.548	29.271	1.00	39.74
ATOM O	1042	OG	SER C 359	42.279	49.849	29.594	1.00	39.74

ATOM C	1068	CB	ALA	C	363	38.433	39.305	36.398	1.00	36.27
ATOM N	1069	N	GLU	C	364	38.928	36.464	37.457	1.00	37.01
ATOM C	1070	CA	GLU	C	364	38.460	35.290	38.174	1.00	37.01
ATOM C	1071	C	GLU	C	364	37.641	35.741	39.377	1.00	37.01
ATOM O	1072	O	GLU	C	364	38.159	36.435	40.256	1.00	37.01
ATOM C	1073	CB	GLU	C	364	39.643	34.431	38.610	1.00	37.01
ATOM C	1074	CG	GLU	C	364	39.376	32.970	38.500	1.00	37.01
ATOM C	1075	CD	GLU	C	364	38.321	32.531	39.467	1.00	37.01
ATOM O	1076	OE1	GLU	C	364	38.635	32.428	40.667	1.00	37.01
ATOM O	1077	OE2	GLU	C	364	37.174	32.308	39.036	1.00	37.01
ATOM N	1078	N	TYR	C	365	36.374	35.333	39.422	1.00	34.19
ATOM C	1079	CA	TYR	C	365	35.457	35.750	40.475	1.00	34.19
ATOM C	1080	C	TYR	C	365	35.094	34.625	41.433	1.00	34.19
ATOM O	1081	O	TYR	C	365	34.235	34.821	42.296	1.00	34.19
ATOM C	1082	CB	TYR	C	365	34.180	36.330	39.867	1.00	34.19
ATOM C	1083	CG	TYR	C	365	34.394	37.595	39.077	1.00	34.19
ATOM C	1084	CD1	TYR	C	365	34.830	37.547	37.766	1.00	34.19
ATOM C	1085	CD2	TYR	C	365	34.163	38.838	39.645	1.00	34.19
ATOM C	1086	CE1	TYR	C	365	35.028	38.692	37.041	1.00	34.19
ATOM C	1087	CE2	TYR	C	365	34.358	39.992	38.925	1.00	34.19
ATOM C	1088	CZ	TYR	C	365	34.794	39.914	37.625	1.00	34.19
ATOM O	1089	OH	TYR	C	365	34.992	41.061	36.898	1.00	34.19
ATOM N	1090	N	SER	C	366	35.722	33.455	41.307	1.00	34.39
ATOM C	1091	CA	SER	C	366	35.290	32.305	42.094	1.00	34.39
ATOM C	1092	C	SER	C	366	35.504	32.533	43.584	1.00	34.39

ATOM O	1093	O	SER C 366	34.664	32.145	44.402	1.00	34.39
ATOM C	1094	CB	SER C 366	36.015	31.042	41.635	1.00	34.39
ATOM O	1095	OG	SER C 366	37.404	31.137	41.881	1.00	34.39
ATOM N	1096	N	AVAL C 367	36.623	33.152	43.962	0.50	31.52
ATOM C	1097	CA	AVAL C 367	36.836	33.437	45.375	0.50	31.52
ATOM C	1098	C	AVAL C 367	35.881	34.524	45.855	0.50	31.52
ATOM O	1099	O	AVAL C 367	35.526	34.569	47.037	0.50	31.52
ATOM C	1100	CB	AVAL C 367	38.307	33.806	45.637	0.50	31.52
ATOM C	1101	CG1AVAL	C 367	38.638	35.156	45.038	0.50	31.52
ATOM C	1102	CG2AVAL	C 367	38.596	33.797	47.124	0.50	31.52
ATOM N	1103	N	BVAL C 367	36.723	33.152	43.962	0.50	31.52
ATOM C	1104	CA	BVAL C 367	36.936	33.437	45.375	0.50	31.52
ATOM C	1105	C	BVAL C 367	35.981	34.524	45.855	0.50	31.52
ATOM O	1106	O	BVAL C 367	35.626	34.569	47.037	0.50	31.52
ATOM C	1107	CB	BVAL C 367	38.407	33.806	45.637	0.50	31.52
ATOM C	1108	CG1BVAL	C 367	38.609	34.221	47.078	0.50	31.52
ATOM C	1109	CG2BVAL	C 367	39.313	32.644	45.285	0.50	31.52
ATOM N	1110	N	LEU C 368	35.442	35.405	44.956	1.00	29.13
ATOM C	1111	CA	LEU C 368	34.520	36.466	45.342	1.00	29.13
ATOM C	1112	C	LEU C 368	33.095	35.954	45.521	1.00	29.13
ATOM O	1113	O	LEU C 368	32.327	36.541	46.287	1.00	29.13
ATOM C	1114	CB	LEU C 368	34.559	37.596	44.311	1.00	29.13
ATOM C	1115	CG	LEU C 368	35.940	38.158	43.960	1.00	29.13
ATOM C	1116	CD1	LEU C 368	35.818	39.305	42.981	1.00	29.13
ATOM C	1117	CD2	LEU C 368	36.697	38.595	45.197	1.00	29.13

ATOM N	1118	N	TYR C 369	32.724	34.869	44.833	1.00	33.58
ATOM C	1119	CA	TYR C 369	31.417	34.253	45.048	1.00	33.58
ATOM C	1120	C	TYR C 369	31.272	33.693	46.451	1.00	33.58
ATOM O	1121	O	TYR C 369	30.148	33.524	46.930	1.00	33.58
ATOM C	1122	CB	TYR C 369	31.181	33.113	44.057	1.00	33.58
ATOM C	1123	CG	TYR C 369	31.058	33.527	42.616	1.00	33.58
ATOM C	1124	CD1	TYR C 369	30.249	34.585	42.244	1.00	33.58
ATOM C	1125	CD2	TYR C 369	31.741	32.846	41.623	1.00	33.58
ATOM C	1126	CE1	TYR C 369	30.137	34.963	40.930	1.00	33.58
ATOM C	1127	CE2	TYR C 369	31.631	33.215	40.304	1.00	33.58
ATOM C	1128	CZ	TYR C 369	30.826	34.273	39.963	1.00	33.58
ATOM O	1129	OH	TYR C 369	30.712	34.648	38.647	1.00	33.58
ATOM N	1130	N	ASN C 370	32.381	33.400	47.114	1.00	33.49
ATOM C	1131	CA	ASN C 370	32.365	32.622	48.341	1.00	33.49
ATOM C	1132	C	ASN C 370	31.946	33.483	49.523	1.00	33.49
ATOM O	1133	O	ASN C 370	32.630	34.452	49.867	1.00	33.49
ATOM C	1134	CB	ASN C 370	33.745	32.018	48.580	1.00	33.49
ATOM C	1135	CG	ASN C 370	33.817	31.234	49.859	1.00	33.49
ATOM O	1136	OD1	ASN C 370	32.985	30.369	50.115	1.00	33.49
ATOM N	1137	ND2	ASN C 370	34.808	31.537	50.681	1.00	33.49
ATOM N	1138	N	SER C 371	30.830	33.130	50.149	1.00	34.71
ATOM C	1139	CA	SER C 371	30.528	33.682	51.456	1.00	34.71
ATOM C	1140	C	SER C 371	31.497	33.110	52.486	1.00	34.71
ATOM O	1141	O	SER C 371	32.321	32.244	52.188	1.00	34.71
ATOM C	1142	CB	SER C 371	29.085	33.386	51.849	1.00	34.71

ATOM O	1143	OG	SER C 371	28.241	33.388	50.714	1.00	34.71
ATOM N	1144	N	ALA C 372	31.421	33.647	53.701	1.00	37.16
ATOM C	1145	CA	ALA C 372	32.310	33.289	54.804	1.00	37.16
ATOM C	1146	C	ALA C 372	33.713	33.831	54.562	1.00	37.16
ATOM O	1147	O	ALA C 372	34.574	33.759	55.443	1.00	37.16
ATOM C	1148	CB	ALA C 372	32.350	31.773	55.034	1.00	37.16
ATOM N	1149	N	SER C 373	33.952	34.380	53.380	1.00	32.75
ATOM C	1150	CA	SER C 373	35.115	35.214	53.134	1.00	32.75
ATOM C	1151	C	SER C 373	34.744	36.639	52.778	1.00	32.75
ATOM O	1152	O	SER C 373	35.509	37.552	53.083	1.00	32.75
ATOM C	1153	CB	SER C 373	35.983	34.633	52.010	1.00	32.75
ATOM O	1154	OG	SER C 373	35.270	34.579	50.790	1.00	32.75
ATOM N	1155	N	PHE C 374	33.585	36.850	52.161	1.00	25.92
ATOM C	1156	CA	PHE C 374	33.109	38.178	51.802	1.00	25.92
ATOM C	1157	C	PHE C 374	31.707	38.361	52.345	1.00	25.92
ATOM O	1158	O	PHE C 374	30.807	37.578	52.027	1.00	25.92
ATOM C	1159	CB	PHE C 374	33.148	38.379	50.290	1.00	25.92
ATOM C	1160	CG	PHE C 374	34.530	38.398	49.748	1.00	25.92
ATOM C	1161	CD1	PHE C 374	35.358	39.473	49.991	1.00	25.92
ATOM C	1162	CD2	PHE C 374	35.025	37.326	49.037	1.00	25.92
ATOM C	1163	CE1	PHE C 374	36.638	39.492	49.518	1.00	25.92
ATOM C	1164	CE2	PHE C 374	36.308	37.342	48.559	1.00	25.92
ATOM C	1165	CZ	PHE C 374	37.117	38.424	48.798	1.00	25.92
ATOM N	1166	N	SER C 375	31.528	39.398	53.162	1.00	24.99
ATOM C	1167	CA	SER C 375	30.260	39.595	53.848	1.00	24.99

ATOM O	1193	O	LYS C 378	27.464	43.312	43.271	1.00	24.02
ATOM C	1194	CB	LYS C 378	25.111	43.411	45.432	1.00	24.02
ATOM C	1195	CG	LYS C 378	24.907	43.256	46.916	1.00	24.02
ATOM C	1196	CD	LYS C 378	23.758	44.114	47.392	1.00	24.02
ATOM C	1197	CE	LYS C 378	22.431	43.425	47.148	1.00	24.02
ATOM N	1198	NZ	LYS C 378	22.328	42.161	47.923	1.00	24.02
ATOM N	1199	N	CYS C 379	25.569	42.510	42.388	1.00	24.87
ATOM C	1200	CA	CYS C 379	25.879	42.999	41.056	1.00	24.87
ATOM C	1201	C	CYS C 379	24.669	43.719	40.486	1.00	24.87
ATOM O	1202	O	CYS C 379	23.523	43.368	40.768	1.00	24.87
ATOM C	1203	CB	CYS C 379	26.336	41.866	40.116	1.00	24.87
ATOM S	1204	SG	CYS C 379	27.926	41.106	40.582	1.00	24.87
ATOM N	1205	N	TYR C 380	24.945	44.743	39.690	1.00	24.50
ATOM C	1206	CA	TYR C 380	23.951	45.614	39.087	1.00	24.50
ATOM C	1207	C	TYR C 380	24.205	45.654	37.589	1.00	24.50
ATOM O	1208	O	TYR C 380	25.342	45.866	37.156	1.00	24.50
ATOM C	1209	CB	TYR C 380	24.030	47.030	39.668	1.00	24.50
ATOM C	1210	CG	TYR C 380	23.783	47.106	41.154	1.00	24.50
ATOM C	1211	CD1	TYR C 380	22.507	47.301	41.654	1.00	24.50
ATOM C	1212	CD2	TYR C 380	24.828	46.986	42.058	1.00	24.50
ATOM C	1213	CE1	TYR C 380	22.277	47.367	43.004	1.00	24.50
ATOM C	1214	CE2	TYR C 380	24.604	47.050	43.412	1.00	24.50
ATOM C	1215	CZ	TYR C 380	23.326	47.242	43.880	1.00	24.50
ATOM O	1216	OH	TYR C 380	23.097	47.307	45.230	1.00	24.50
ATOM N	1217	N	GLY C 381	23.153	45.441	36.802	1.00	29.88

ATOM C	1218	CA	GLY C 381	23.246	45.476	35.362	1.00	29.88
ATOM C	1219	C	GLY C 381	23.723	44.193	34.719	1.00	29.88
ATOM O	1220	O	GLY C 381	23.545	44.021	33.511	1.00	29.88
ATOM N	1221	N	VAL C 382	24.328	43.289	35.488	1.00	31.53
ATOM C	1222	CA	VAL C 382	24.757	41.990	34.992	1.00	31.53
ATOM C	1223	C	VAL C 382	24.382	40.942	36.024	1.00	31.53
ATOM O	1224	O	VAL C 382	24.165	41.241	37.199	1.00	31.53
ATOM C	1225	CB	VAL C 382	26.272	41.922	34.699	1.00	31.53
ATOM C	1226	CG1	VAL C 382	26.621	42.766	33.493	1.00	31.53
ATOM C	1227	CG2	VAL C 382	27.071	42.359	35.918	1.00	31.53
ATOM N	1228	N	SER C 383	24.304	39.715	35.575	1.00	35.15
ATOM C	1229	CA	SER C 383	23.993	38.645	36.499	1.00	35.15
ATOM C	1230	C	SER C 383	25.213	38.302	37.349	1.00	35.15
ATOM O	1231	O	SER C 383	26.347	38.355	36.872	1.00	35.15
ATOM C	1232	CB	SER C 383	23.527	37.408	35.740	1.00	35.15
ATOM O	1233	OG	SER C 383	23.168	36.372	36.633	1.00	35.15
ATOM N	1234	N	PRO C 384	25.004	37.942	38.600	1.00	35.16
ATOM C	1235	CA	PRO C 384	26.133	37.598	39.471	1.00	35.16
ATOM C	1236	C	PRO C 384	26.652	36.182	39.276	1.00	35.16
ATOM O	1237	O	PRO C 384	27.310	35.652	40.173	1.00	35.16
ATOM C	1238	CB	PRO C 384	25.550	37.780	40.876	1.00	35.16
ATOM C	1239	CG	PRO C 384	24.094	37.550	40.698	1.00	35.16
ATOM C	1240	CD	PRO C 384	23.752	38.105	39.356	1.00	35.16
ATOM N	1241	N	THR C 385	26.354	35.545	38.141	1.00	39.19
ATOM C	1242	CA	THR C 385	26.592	34.112	37.978	1.00	39.19

ATOM C	1318	CG	ASN	C	394	38.500	50.438	29.553	1.00	35.70
ATOM O	1319	OD1	ASN	C	394	39.722	50.339	29.612	1.00	35.70
ATOM N	1320	ND2	ASN	C	394	37.880	51.045	28.555	1.00	35.70
ATOM N	1321	N	VAL	C	395	37.902	47.713	33.115	1.00	29.17
ATOM C	1322	CA	VAL	C	395	37.404	47.474	34.462	1.00	29.17
ATOM C	1323	C	VAL	C	395	37.967	48.560	35.363	1.00	29.17
ATOM O	1324	O	VAL	C	395	39.183	48.778	35.396	1.00	29.17
ATOM C	1325	CB	VAL	C	395	37.790	46.078	34.981	1.00	29.17
ATOM C	1326	CG1	VAL	C	395	37.288	45.886	36.403	1.00	29.17
ATOM C	1327	CG2	VAL	C	395	37.232	45.002	34.072	1.00	29.17
ATOM N	1328	N	TYR	C	396	37.088	49.244	36.083	1.00	24.70
ATOM C	1329	CA	TYR	C	396	37.488	50.223	37.081	1.00	24.70
ATOM C	1330	C	TYR	C	396	37.244	49.626	38.457	1.00	24.70
ATOM O	1331	O	TYR	C	396	36.155	49.122	38.727	1.00	24.70
ATOM C	1332	CB	TYR	C	396	36.711	51.529	36.925	1.00	24.70
ATOM C	1333	CG	TYR	C	396	36.718	52.087	35.524	1.00	24.70
ATOM C	1334	CD1	TYR	C	396	37.711	52.957	35.110	1.00	24.70
ATOM C	1335	CD2	TYR	C	396	35.725	51.749	34.622	1.00	24.70
ATOM C	1336	CE1	TYR	C	396	37.719	53.469	33.830	1.00	24.70
ATOM C	1337	CE2	TYR	C	396	35.725	52.255	33.340	1.00	24.70
ATOM C	1338	CZ	TYR	C	396	36.723	53.114	32.953	1.00	24.70
ATOM O	1339	OH	TYR	C	396	36.725	53.621	31.675	1.00	24.70
ATOM N	1340	N	ALA	C	397	38.254	49.666	39.313	1.00	17.04
ATOM C	1341	CA	ALA	C	397	38.168	49.129	40.664	1.00	17.04
ATOM C	1342	C	ALA	C	397	38.365	50.276	41.646	1.00	17.04

ATOM O	1343	O	ALA C 397	39.473	50.797	41.779	1.00	17.04
ATOM C	1344	CB	ALA C 397	39.207	48.031	40.879	1.00	17.04
ATOM N	1345	N	ASP C 398	37.290	50.675	42.317	1.00	13.76
ATOM C	1346	CA	ASP C 398	37.322	51.713	43.336	1.00	13.76
ATOM C	1347	C	ASP C 398	37.308	51.048	44.704	1.00	13.76
ATOM O	1348	O	ASP C 398	36.585	50.080	44.913	1.00	13.76
ATOM C	1349	CB	ASP C 398	36.117	52.646	43.199	1.00	13.76
ATOM C	1350	CG	ASP C 398	35.983	53.231	41.806	1.00	13.76
ATOM O	1351	OD1	ASP C 398	37.002	53.352	41.108	1.00	13.76
ATOM O	1352	OD2	ASP C 398	34.857	53.577	41.418	1.00	13.76
ATOM N	1353	N	SER C 399	38.115	51.544	45.634	1.00	10.98
ATOM C	1354	CA	SER C 399	38.159	50.902	46.940	1.00	10.98
ATOM C	1355	C	SER C 399	38.322	51.926	48.055	1.00	10.98
ATOM O	1356	O	SER C 399	38.963	52.978	47.880	1.00	10.98
ATOM C	1357	CB	SER C 399	39.272	49.844	47.013	1.00	10.98
ATOM O	1358	OG	SER C 399	40.530	50.380	46.660	1.00	10.98
ATOM N	1359	N	PHE C 400	37.713	51.593	49.201	1.00	10.21
ATOM C	1360	CA	PHE C 400	37.709	52.445	50.393	1.00	10.21
ATOM C	1361	C	PHE C 400	37.221	51.639	51.594	1.00	10.21
ATOM O	1362	O	PHE C 400	36.841	50.475	51.469	1.00	10.21
ATOM C	1363	CB	PHE C 400	36.843	53.701	50.197	1.00	10.21
ATOM C	1364	CG	PHE C 400	35.505	53.436	49.561	1.00	10.21
ATOM C	1365	CD1	PHE C 400	34.408	53.087	50.332	1.00	10.21
ATOM C	1366	CD2	PHE C 400	35.341	53.546	48.192	1.00	10.21
ATOM C	1367	CE1	PHE C 400	33.176	52.851	49.744	1.00	10.21

ATOM C	1368	CE2	PHE	C	400	34.113	53.308	47.601	1.00	10.21
ATOM C	1369	CZ	PHE	C	400	33.030	52.962	48.380	1.00	10.21
ATOM N	1370	N	VAL	C	401	37.250	52.273	52.766	1.00	12.18
ATOM C	1371	CA	VAL	C	401	36.743	51.698	54.010	1.00	12.18
ATOM C	1372	C	VAL	C	401	35.562	52.534	54.488	1.00	12.18
ATOM O	1373	O	VAL	C	401	35.593	53.765	54.414	1.00	12.18
ATOM C	1374	CB	VAL	C	401	37.838	51.629	55.096	1.00	12.18
ATOM C	1375	CG1	VAL	C	401	37.259	51.178	56.432	1.00	12.18
ATOM C	1376	CG2	VAL	C	401	38.948	50.695	54.665	1.00	12.18
ATOM N	1377	N	ILE	C	402	34.520	51.864	54.981	1.00	14.54
ATOM C	1378	CA	ILE	C	402	33.300	52.532	55.420	1.00	14.54
ATOM C	1379	C	ILE	C	402	32.692	51.729	56.565	1.00	14.54
ATOM O	1380	O	ILE	C	402	32.978	50.554	56.731	1.00	14.54
ATOM C	1381	CB	ILE	C	402	32.324	52.676	54.227	1.00	14.54
ATOM C	1382	CG1	ILE	C	402	31.255	53.717	54.493	1.00	14.54
ATOM C	1383	CG2	ILE	C	402	31.715	51.346	53.853	1.00	14.54
ATOM C	1384	CD1	ILE	C	402	30.453	54.036	53.264	1.00	14.54
ATOM N	1385	N	ARG	C	403	31.844	52.367	57.365	1.00	19.81
ATOM C	1386	CA	ARG	C	403	31.139	51.642	58.420	1.00	19.81
ATOM C	1387	C	ARG	C	403	30.069	50.698	57.869	1.00	19.81
ATOM O	1388	O	ARG	C	403	29.504	50.909	56.795	1.00	19.81
ATOM C	1389	CB	ARG	C	403	30.542	52.627	59.433	1.00	19.81
ATOM C	1390	CG	ARG	C	403	29.188	53.119	59.020	1.00	19.81
ATOM C	1391	CD	ARG	C	403	28.446	53.997	60.017	1.00	19.81
ATOM N	1392	NE	ARG	C	403	27.749	53.169	60.987	1.00	19.81

ATOM C	1393	CZ	ARG	C	403	27.103	53.625	62.050	1.00	19.81
ATOM N	1394	NH1	ARG	C	403	27.060	54.924	62.308	1.00	19.81
ATOM N	1395	NH2	ARG	C	403	26.469	52.769	62.835	1.00	19.81
ATOM N	1396	N	GLY	C	404	29.794	49.641	58.641	1.00	18.41
ATOM C	1397	CA	GLY	C	404	28.975	48.540	58.156	1.00	18.41
ATOM C	1398	C	GLY	C	404	27.553	48.917	57.789	1.00	18.41
ATOM O	1399	O	GLY	C	404	26.976	48.334	56.872	1.00	18.41
ATOM N	1400	N	ASP	C	405	26.964	49.876	58.501	1.00	20.72
ATOM C	1401	CA	ASP	C	405	25.618	50.326	58.158	1.00	20.72
ATOM C	1402	C	ASP	C	405	25.585	51.080	56.835	1.00	20.72
ATOM O	1403	O	ASP	C	405	24.557	51.086	56.155	1.00	20.72
ATOM C	1404	CB	ASP	C	405	25.057	51.212	59.266	1.00	20.72
ATOM C	1405	CG	ASP	C	405	24.560	50.415	60.448	1.00	20.72
ATOM O	1406	OD1	ASP	C	405	24.125	49.266	60.247	1.00	20.72
ATOM O	1407	OD2	ASP	C	405	24.611	50.939	61.577	1.00	20.72
ATOM N	1408	N	GLU	C	406	26.682	51.721	56.456	1.00	18.81
ATOM C	1409	CA	GLU	C	406	26.685	52.571	55.278	1.00	18.81
ATOM C	1410	C	GLU	C	406	27.130	51.839	54.018	1.00	18.81
ATOM O	1411	O	GLU	C	406	27.186	52.453	52.951	1.00	18.81
ATOM C	1412	CB	GLU	C	406	27.542	53.808	55.557	1.00	18.81
ATOM C	1413	CG	GLU	C	406	26.949	54.604	56.719	1.00	18.81
ATOM C	1414	CD	GLU	C	406	27.511	55.991	56.870	1.00	18.81
ATOM O	1415	OE1	GLU	C	406	28.628	56.121	57.399	1.00	18.81
ATOM O	1416	OE2	GLU	C	406	26.826	56.952	56.475	1.00	18.81
ATOM N	1417	N	VAL	C	407	27.399	50.534	54.113	1.00	17.77

ATOM N	1443	NE2	GLN	C	409	22.197	54.008	53.070	1.00	20.66
ATOM N	1444	N	ILE	C	410	26.164	52.370	49.241	1.00	15.82
ATOM C	1445	CA	ILE	C	410	26.955	52.186	48.019	1.00	15.82
ATOM C	1446	C	ILE	C	410	26.065	51.414	47.052	1.00	15.82
ATOM O	1447	O	ILE	C	410	26.177	50.202	46.869	1.00	15.82
ATOM C	1448	CB	ILE	C	410	28.285	51.485	48.303	1.00	15.82
ATOM C	1449	CG1	ILE	C	410	28.966	52.136	49.514	1.00	15.82
ATOM C	1450	CG2	ILE	C	410	29.174	51.507	47.065	1.00	15.82
ATOM C	1451	CD1	ILE	C	410	29.276	53.605	49.337	1.00	15.82
ATOM N	1452	N	ALA	C	411	25.179	52.147	46.393	1.00	18.90
ATOM C	1453	CA	ALA	C	411	24.237	51.584	45.438	1.00	18.90
ATOM C	1454	C	ALA	C	411	23.683	52.724	44.601	1.00	18.90
ATOM O	1455	O	ALA	C	411	23.710	53.878	45.034	1.00	18.90
ATOM C	1456	CB	ALA	C	411	23.103	50.833	46.151	1.00	18.90
ATOM N	1457	N	PRO	C	412	23.199	52.441	43.393	1.00	21.18
ATOM C	1458	CA	PRO	C	412	22.589	53.505	42.587	1.00	21.18
ATOM C	1459	C	PRO	C	412	21.345	54.072	43.258	1.00	21.18
ATOM O	1460	O	PRO	C	412	20.614	53.371	43.956	1.00	21.18
ATOM C	1461	CB	PRO	C	412	22.248	52.808	41.263	1.00	21.18
ATOM C	1462	CG	PRO	C	412	22.362	51.357	41.524	1.00	21.18
ATOM C	1463	CD	PRO	C	412	23.310	51.174	42.654	1.00	21.18
ATOM N	1464	N	GLY	C	413	21.125	55.365	43.050	1.00	21.99
ATOM C	1465	CA	GLY	C	413	19.939	56.044	43.548	1.00	21.99
ATOM C	1466	C	GLY	C	413	19.825	56.177	45.052	1.00	21.99
ATOM O	1467	O	GLY	C	413	18.717	56.104	45.592	1.00	21.99

ATOM N	1468	N	GLN C 414	20.939	56.386	45.745	1.00	21.99
ATOM C	1469	CA	GLN C 414	20.937	56.547	47.189	1.00	21.99
ATOM C	1470	C	GLN C 414	21.212	57.997	47.554	1.00	21.99
ATOM O	1471	O	GLN C 414	21.743	58.772	46.759	1.00	21.99
ATOM C	1472	CB	GLN C 414	21.980	55.640	47.849	1.00	21.99
ATOM C	1473	CG	GLN C 414	21.716	54.165	47.678	1.00	21.99
ATOM C	1474	CD	GLN C 414	20.340	53.764	48.148	1.00	21.99
ATOM O	1475	OE1	GLN C 414	19.993	53.944	49.310	1.00	21.99
ATOM N	1476	NE2	GLN C 414	19.546	53.213	47.245	1.00	21.99
ATOM N	1477	N	THR C 415	20.841	58.358	48.778	1.00	22.25
ATOM C	1478	CA	THR C 415	21.054	59.706	49.271	1.00	22.25
ATOM C	1479	C	THR C 415	21.491	59.639	50.727	1.00	22.25
ATOM O	1480	O	THR C 415	21.230	58.665	51.431	1.00	22.25
ATOM C	1481	CB	THR C 415	19.796	60.570	49.107	1.00	22.25
ATOM O	1482	OG1	THR C 415	20.128	61.943	49.336	1.00	22.25
ATOM C	1483	CG2	THR C 415	18.716	60.136	50.075	1.00	22.25
ATOM N	1484	N	GLY C 416	22.180	60.683	51.165	1.00	20.12
ATOM C	1485	CA	GLY C 416	22.848	60.702	52.446	1.00	20.12
ATOM C	1486	C	GLY C 416	24.271	61.192	52.306	1.00	20.12
ATOM O	1487	O	GLY C 416	24.756	61.475	51.214	1.00	20.12
ATOM N	1488	N	LYS C 417	24.956	61.267	53.449	1.00	19.00
ATOM C	1489	CA	LYS C 417	26.261	61.922	53.501	1.00	19.00
ATOM C	1490	C	LYS C 417	27.276	61.245	52.582	1.00	19.00
ATOM O	1491	O	LYS C 417	27.982	61.917	51.825	1.00	19.00
ATOM C	1492	CB	LYS C 417	26.769	61.946	54.941	1.00	19.00

ATOM O	1518	OE2	GLU	C	420	22.717	62.233	48.271	1.00	21.76
ATOM N	1519	N	TYR	C	421	28.249	63.491	49.383	1.00	20.01
ATOM C	1520	CA	TYR	C	421	29.477	64.245	49.543	1.00	20.01
ATOM C	1521	C	TYR	C	421	30.760	63.437	49.417	1.00	20.01
ATOM O	1522	O	TYR	C	421	31.836	64.035	49.456	1.00	20.01
ATOM C	1523	CB	TYR	C	421	29.492	64.946	50.909	1.00	20.01
ATOM C	1524	CG	TYR	C	421	28.315	65.863	51.170	1.00	20.01
ATOM C	1525	CD1	TYR	C	421	27.759	66.626	50.153	1.00	20.01
ATOM C	1526	CD2	TYR	C	421	27.767	65.962	52.435	1.00	20.01
ATOM C	1527	CE1	TYR	C	421	26.684	67.467	50.398	1.00	20.01
ATOM C	1528	CE2	TYR	C	421	26.696	66.798	52.687	1.00	20.01
ATOM C	1529	CZ	TYR	C	421	26.161	67.543	51.666	1.00	20.01
ATOM O	1530	OH	TYR	C	421	25.094	68.373	51.917	1.00	20.01
ATOM N	1531	N	ASN	C	422	30.701	62.109	49.322	1.00	14.94
ATOM C	1532	CA	ASN	C	422	31.929	61.317	49.305	1.00	14.94
ATOM C	1533	C	ASN	C	422	32.087	60.469	48.051	1.00	14.94
ATOM O	1534	O	ASN	C	422	33.094	60.601	47.355	1.00	14.94
ATOM C	1535	CB	ASN	C	422	31.984	60.436	50.556	1.00	14.94
ATOM C	1536	CG	ASN	C	422	32.105	61.245	51.826	1.00	14.94
ATOM O	1537	OD1	ASN	C	422	33.190	61.403	52.360	1.00	14.94
ATOM N	1538	ND2	ASN	C	422	30.986	61.759	52.313	1.00	14.94
ATOM N	1539	N	TYR	C	423	31.128	59.606	47.737	1.00	12.60
ATOM C	1540	CA	TYR	C	423	31.268	58.683	46.614	1.00	12.60
ATOM C	1541	C	TYR	C	423	29.888	58.412	46.042	1.00	12.60
ATOM O	1542	O	TYR	C	423	29.019	57.890	46.740	1.00	12.60

ATOM C	1593	C	PHE C 429	25.516	50.281	36.582	1.00	22.48
ATOM O	1594	O	PHE C 429	24.567	49.538	36.841	1.00	22.48
ATOM C	1595	CB	PHE C 429	25.754	51.915	38.492	1.00	22.48
ATOM C	1596	CG	PHE C 429	26.917	51.128	39.020	1.00	22.48
ATOM C	1597	CD1	PHE C 429	28.212	51.501	38.732	1.00	22.48
ATOM C	1598	CD2	PHE C 429	26.709	50.046	39.849	1.00	22.48
ATOM C	1599	CE1	PHE C 429	29.275	50.792	39.239	1.00	22.48
ATOM C	1600	CE2	PHE C 429	27.772	49.335	40.356	1.00	22.48
ATOM C	1601	CZ	PHE C 429	29.052	49.710	40.047	1.00	22.48
ATOM N	1602	N	THR C 430	26.613	49.859	35.954	1.00	23.67
ATOM C	1603	CA	THR C 430	26.867	48.457	35.637	1.00	23.67
ATOM C	1604	C	THR C 430	28.140	48.024	36.351	1.00	23.67
ATOM O	1605	O	THR C 430	29.208	48.589	36.107	1.00	23.67
ATOM C	1606	CB	THR C 430	27.010	48.243	34.126	1.00	23.67
ATOM O	1607	OG1	THR C 430	25.818	48.675	33.464	1.00	23.67
ATOM C	1608	CG2	THR C 430	27.250	46.777	33.814	1.00	23.67
ATOM N	1609	N	GLY C 431	28.032	47.021	37.208	1.00	21.79
ATOM C	1610	CA	GLY C 431	29.184	46.558	37.953	1.00	21.79
ATOM C	1611	C	GLY C 431	28.749	45.818	39.201	1.00	21.79
ATOM O	1612	O	GLY C 431	27.572	45.614	39.439	1.00	21.79
ATOM N	1613	N	CYS C 432	29.732	45.448	40.005	1.00	19.61
ATOM C	1614	CA	CYS C 432	29.482	44.707	41.228	1.00	19.61
ATOM C	1615	C	CYS C 432	30.074	45.445	42.419	1.00	19.61
ATOM O	1616	O	CYS C 432	31.111	46.095	42.320	1.00	19.61
ATOM C	1617	CB	CYS C 432	30.058	43.285	41.157	1.00	19.61

ATOM S	1618	SG	CYS	C	432	29.386	42.286	39.791	1.00	19.61
ATOM N	1619	N	VAL	C	433	29.392	45.338	43.547	1.00	15.67
ATOM C	1620	CA	VAL	C	433	29.855	45.871	44.818	1.00	15.67
ATOM C	1621	C	VAL	C	433	30.144	44.692	45.728	1.00	15.67
ATOM O	1622	O	VAL	C	433	29.275	43.841	45.942	1.00	15.67
ATOM C	1623	CB	VAL	C	433	28.811	46.809	45.448	1.00	15.67
ATOM C	1624	CG1	VAL	C	433	29.296	47.323	46.799	1.00	15.67
ATOM C	1625	CG2	VAL	C	433	28.508	47.950	44.516	1.00	15.67
ATOM N	1626	N	ILE	C	434	31.353	44.634	46.263	1.00	15.85
ATOM C	1627	CA	ILE	C	434	31.747	43.566	47.167	1.00	15.85
ATOM C	1628	C	ILE	C	434	32.347	44.186	48.417	1.00	15.85
ATOM O	1629	O	ILE	C	434	33.085	45.173	48.342	1.00	15.85
ATOM C	1630	CB	ILE	C	434	32.723	42.576	46.491	1.00	15.85
ATOM C	1631	CG1	ILE	C	434	32.967	41.357	47.386	1.00	15.85
ATOM C	1632	CG2	ILE	C	434	33.983	43.260	46.062	1.00	15.85
ATOM C	1633	CD1	ILE	C	434	32.996	40.052	46.654	1.00	15.85
ATOM N	1634	N	ALA	C	435	31.990	43.638	49.573	1.00	15.92
ATOM C	1635	CA	ALA	C	435	32.423	44.228	50.829	1.00	15.92
ATOM C	1636	C	ALA	C	435	32.631	43.136	51.864	1.00	15.92
ATOM O	1637	O	ALA	C	435	31.952	42.104	51.843	1.00	15.92
ATOM C	1638	CB	ALA	C	435	31.407	45.252	51.340	1.00	15.92
ATOM N	1639	N	TRP	C	436	33.562	43.388	52.782	1.00	15.31
ATOM C	1640	CA	TRP	C	436	33.845	42.421	53.836	1.00	15.31
ATOM C	1641	C	TRP	C	436	34.234	43.132	55.123	1.00	15.31
ATOM O	1642	O	TRP	C	436	34.838	44.204	55.102	1.00	15.31

ATOM C	1643	CB	TRP	C	436	34.939	41.425	53.412	1.00	15.31
ATOM C	1644	CG	TRP	C	436	36.313	41.997	53.168	1.00	15.31
ATOM C	1645	CD1	TRP	C	436	37.369	41.964	54.021	1.00	15.31
ATOM C	1646	CD2	TRP	C	436	36.783	42.639	51.977	1.00	15.31
ATOM N	1647	NE1	TRP	C	436	38.462	42.558	53.449	1.00	15.31
ATOM C	1648	CE2	TRP	C	436	38.128	42.982	52.192	1.00	15.31
ATOM C	1649	CE3	TRP	C	436	36.192	42.968	50.757	1.00	15.31
ATOM C	1650	CZ2	TRP	C	436	38.891	43.637	51.235	1.00	15.31
ATOM C	1651	CZ3	TRP	C	436	36.953	43.618	49.808	1.00	15.31
ATOM C	1652	CH2	TRP	C	436	38.288	43.942	50.051	1.00	15.31
ATOM N	1653	N	ASN	C	437	33.884	42.510	56.249	1.00	18.59
ATOM C	1654	CA	ASN	C	437	34.202	43.067	57.556	1.00	18.59
ATOM C	1655	C	ASN	C	437	35.706	43.054	57.793	1.00	18.59
ATOM O	1656	O	ASN	C	437	36.395	42.088	57.463	1.00	18.59
ATOM C	1657	CB	ASN	C	437	33.483	42.280	58.657	1.00	18.59
ATOM C	1658	CG	ASN	C	437	33.714	42.862	60.036	1.00	18.59
ATOM O	1659	OD1	ASN	C	437	34.784	42.714	60.612	1.00	18.59
ATOM N	1660	ND2	ASN	C	437	32.710	43.529	60.567	1.00	18.59
ATOM N	1661	N	SER	C	438	36.214	44.135	58.376	1.00	20.64
ATOM C	1662	CA	SER	C	438	37.645	44.340	58.552	1.00	20.64
ATOM C	1663	C	SER	C	438	37.976	44.736	59.987	1.00	20.64
ATOM O	1664	O	SER	C	438	38.953	45.442	60.229	1.00	20.64
ATOM C	1665	CB	SER	C	438	38.150	45.399	57.572	1.00	20.64
ATOM O	1666	OG	SER	C	438	39.553	45.388	57.478	1.00	20.64
ATOM N	1667	N	ASN	C	439	37.171	44.272	60.944	1.00	25.50

ATOM O	1768	OH	TYR C 451	42.354	51.115	56.949	1.00	19.56
ATOM N	1769	N	LEU C 452	38.349	58.771	57.307	1.00	18.47
ATOM C	1770	CA	LEU C 452	37.510	59.956	57.439	1.00	18.47
ATOM C	1771	C	LEU C 452	36.465	60.019	56.329	1.00	18.47
ATOM O	1772	O	LEU C 452	36.662	59.482	55.239	1.00	18.47
ATOM C	1773	CB	LEU C 452	38.348	61.242	57.401	1.00	18.47
ATOM C	1774	CG	LEU C 452	39.435	61.416	58.460	1.00	18.47
ATOM C	1775	CD1	LEU C 452	40.780	61.413	57.799	1.00	18.47
ATOM C	1776	CD2	LEU C 452	39.225	62.706	59.218	1.00	18.47
ATOM N	1777	N	TYR C 453	35.353	60.691	56.617	1.00	18.27
ATOM C	1778	CA	TYR C 453	34.311	60.965	55.639	1.00	18.27
ATOM C	1779	C	TYR C 453	33.983	62.452	55.658	1.00	18.27
ATOM O	1780	O	TYR C 453	34.092	63.108	56.693	1.00	18.27
ATOM C	1781	CB	TYR C 453	33.039	60.125	55.904	1.00	18.27
ATOM C	1782	CG	TYR C 453	32.353	60.378	57.232	1.00	18.27
ATOM C	1783	CD1	TYR C 453	31.233	61.186	57.312	1.00	18.27
ATOM C	1784	CD2	TYR C 453	32.810	59.783	58.395	1.00	18.27
ATOM C	1785	CE1	TYR C 453	30.599	61.408	58.518	1.00	18.27
ATOM C	1786	CE2	TYR C 453	32.182	60.003	59.605	1.00	18.27
ATOM C	1787	CZ	TYR C 453	31.080	60.814	59.656	1.00	18.27
ATOM O	1788	OH	TYR C 453	30.454	61.033	60.861	1.00	18.27
ATOM N	1789	N	ARG C 454	33.594	62.987	54.504	1.00	20.12
ATOM C	1790	CA	ARG C 454	33.233	64.398	54.410	1.00	20.12
ATOM C	1791	C	ARG C 454	31.803	64.586	54.896	1.00	20.12
ATOM O	1792	O	ARG C 454	30.873	63.980	54.360	1.00	20.12

ATOM C	1843	CB	SER C 459	27.002	71.797	45.216	1.00	31.43
ATOM O	1844	OG	SER C 459	28.341	71.851	44.768	1.00	31.43
ATOM N	1845	N	ASN C 460	26.349	68.901	45.982	1.00	27.26
ATOM C	1846	CA	ASN C 460	26.527	67.459	45.892	1.00	27.26
ATOM C	1847	C	ASN C 460	27.600	67.091	44.874	1.00	27.26
ATOM O	1848	O	ASN C 460	27.783	67.761	43.857	1.00	27.26
ATOM C	1849	CB	ASN C 460	25.209	66.791	45.516	1.00	27.26
ATOM C	1850	CG	ASN C 460	24.149	66.960	46.579	1.00	27.26
ATOM O	1851	OD1	ASN C 460	24.389	67.565	47.618	1.00	27.26
ATOM N	1852	ND2	ASN C 460	22.970	66.418	46.325	1.00	27.26
ATOM N	1853	N	LEU C 461	28.316	66.004	45.163	1.00	23.51
ATOM C	1854	CA	LEU C 461	29.314	65.473	44.247	1.00	23.51
ATOM C	1855	C	LEU C 461	28.642	64.753	43.088	1.00	23.51
ATOM O	1856	O	LEU C 461	27.644	64.055	43.269	1.00	23.51
ATOM C	1857	CB	LEU C 461	30.244	64.498	44.973	1.00	23.51
ATOM C	1858	CG	LEU C 461	31.590	64.973	45.507	1.00	23.51
ATOM C	1859	CD1	LEU C 461	32.344	63.791	46.098	1.00	23.51
ATOM C	1860	CD2	LEU C 461	32.417	65.642	44.437	1.00	23.51
ATOM N	1861	N	LYS C 462	29.202	64.912	41.900	1.00	24.28
ATOM C	1862	CA	LYS C 462	28.701	64.211	40.732	1.00	24.28
ATOM C	1863	C	LYS C 462	29.217	62.774	40.699	1.00	24.28
ATOM O	1864	O	LYS C 462	30.212	62.451	41.346	1.00	24.28
ATOM C	1865	CB	LYS C 462	29.113	64.954	39.466	1.00	24.28
ATOM C	1866	CG	LYS C 462	28.495	66.340	39.342	1.00	24.28
ATOM C	1867	CD	LYS C 462	28.570	66.853	37.917	1.00	24.28

ATOM C	1943	CD	GLU	C	471	39.553	75.424	49.648	1.00	44.82
ATOM O	1944	OE1	GLU	C	471	40.201	75.173	48.612	1.00	44.82
ATOM O	1945	OE2	GLU	C	471	38.594	76.223	49.673	1.00	44.82
ATOM N	1946	N	ILE	C	472	38.069	75.015	55.066	1.00	50.35
ATOM C	1947	CA	ILE	C	472	37.063	75.192	56.104	1.00	50.35
ATOM C	1948	C	ILE	C	472	35.698	75.479	55.485	1.00	50.35
ATOM O	1949	O	ILE	C	472	35.585	76.114	54.431	1.00	50.35
ATOM C	1950	CB	ILE	C	472	37.488	76.321	57.060	1.00	50.35
ATOM C	1951	CG1	ILE	C	472	38.914	76.083	57.545	1.00	50.35
ATOM C	1952	CG2	ILE	C	472	36.553	76.408	58.250	1.00	50.35
ATOM C	1953	CD1	ILE	C	472	39.024	74.979	58.564	1.00	50.35
ATOM N	1954	N	TYR	C	473	34.651	74.999	56.148	1.00	48.20
ATOM C	1955	CA	TYR	C	473	33.276	75.139	55.693	1.00	48.20
ATOM C	1956	C	TYR	C	473	32.570	76.211	56.514	1.00	48.20
ATOM O	1957	O	TYR	C	473	32.724	76.269	57.737	1.00	48.20
ATOM C	1958	CB	TYR	C	473	32.540	73.799	55.808	1.00	48.20
ATOM C	1959	CG	TYR	C	473	31.064	73.842	55.509	1.00	48.20
ATOM C	1960	CD1	TYR	C	473	30.604	73.839	54.207	1.00	48.20
ATOM C	1961	CD2	TYR	C	473	30.130	73.850	56.532	1.00	48.20
ATOM C	1962	CE1	TYR	C	473	29.261	73.862	53.931	1.00	48.20
ATOM C	1963	CE2	TYR	C	473	28.787	73.875	56.265	1.00	48.20
ATOM C	1964	CZ	TYR	C	473	28.357	73.882	54.962	1.00	48.20
ATOM O	1965	OH	TYR	C	473	27.014	73.904	54.685	1.00	48.20
ATOM N	1966	N	GLN	C	474	31.791	77.052	55.838	1.00	63.59
ATOM C	1967	CA	GLN	C	474	31.176	78.230	56.445	1.00	63.59

ATOM C	1968	C	GLN C 474	29.667	78.045	56.498	1.00	63.59
ATOM O	1969	O	GLN C 474	29.004	78.032	55.457	1.00	63.59
ATOM C	1970	CB	GLN C 474	31.531	79.489	55.661	1.00	63.59
ATOM C	1971	CG	GLN C 474	32.793	80.170	56.128	1.00	63.59
ATOM C	1972	CD	GLN C 474	33.905	80.066	55.120	1.00	63.59
ATOM O	1973	OE1	GLN C 474	33.695	80.271	53.927	1.00	63.59
ATOM N	1974	NE2	GLN C 474	35.101	79.743	55.592	1.00	63.59
ATOM N	1975	N	GLY C 475	29.125	77.921	57.709	1.00	76.33
ATOM C	1976	CA	GLY C 475	27.680	77.870	57.856	1.00	76.33
ATOM C	1977	C	GLY C 475	27.007	79.167	57.445	1.00	76.33
ATOM O	1978	O	GLY C 475	25.903	79.158	56.895	1.00	76.33
ATOM N	1979	N	SER C 476	27.660	80.298	57.707	1.00	91.44
ATOM C	1980	CA	SER C 476	27.158	81.602	57.297	1.00	91.44
ATOM C	1981	C	SER C 476	28.341	82.540	57.089	1.00	91.44
ATOM O	1982	O	SER C 476	29.503	82.153	57.240	1.00	91.44
ATOM C	1983	CB	SER C 476	26.174	82.170	58.325	1.00	91.44
ATOM O	1984	OG	SER C 476	25.633	83.404	57.885	1.00	91.44
ATOM N	1985	N	THR C 477	28.031	83.789	56.739	1.00	98.63
ATOM C	1986	CA	THR C 477	29.076	84.769	56.449	1.00	98.63
ATOM C	1987	C	THR C 477	29.979	85.088	57.638	1.00	98.63
ATOM O	1988	O	THR C 477	31.210	85.076	57.463	1.00	98.63
ATOM C	1989	CB	THR C 477	28.435	86.040	55.880	1.00	98.63
ATOM O	1990	OG1	THR C 477	27.215	86.321	56.576	1.00	98.63
ATOM C	1991	CG2	THR C 477	28.136	85.863	54.401	1.00	98.63
ATOM N	1992	N	PRO C 478	29.469	85.379	58.857	1.00	99.32

ATOM C	1993	CA	PRO C 478	30.372	85.846	59.920	1.00	99.32
ATOM C	1994	C	PRO C 478	31.273	84.747	60.459	1.00	99.32
ATOM O	1995	O	PRO C 478	31.038	84.216	61.549	1.00	99.32
ATOM C	1996	CB	PRO C 478	29.405	86.353	60.994	1.00	99.32
ATOM C	1997	CG	PRO C 478	28.222	85.479	60.835	1.00	99.32
ATOM C	1998	CD	PRO C 478	28.083	85.265	59.352	1.00	99.32
ATOM N	1999	N	CYS C 479	32.316	84.405	59.709	1.00	93.30
ATOM C	2000	CA	CYS C 479	33.175	83.280	60.036	1.00	93.30
ATOM C	2001	C	CYS C 479	34.614	83.767	59.969	1.00	93.30
ATOM O	2002	O	CYS C 479	35.078	84.191	58.905	1.00	93.30
ATOM C	2003	CB	CYS C 479	32.933	82.138	59.046	1.00	93.30
ATOM S	2004	SG	CYS C 479	33.010	80.428	59.634	1.00	93.30
ATOM N	2005	N	ASN C 480	35.315	83.718	61.098	1.00	97.56
ATOM C	2006	CA	ASN C 480	36.671	84.245	61.205	1.00	97.56
ATOM C	2007	C	ASN C 480	37.641	83.087	61.387	1.00	97.56
ATOM O	2008	O	ASN C 480	37.532	82.328	62.357	1.00	97.56
ATOM C	2009	CB	ASN C 480	36.786	85.238	62.361	1.00	97.56
ATOM C	2010	CG	ASN C 480	37.310	86.587	61.917	1.00	97.56
ATOM O	2011	OD1	ASN C 480	37.845	86.726	60.817	1.00	97.56
ATOM N	2012	ND2	ASN C 480	37.166	87.589	62.775	1.00	97.56
ATOM N	2013	N	GLY C 481	38.591	82.968	60.466	1.00	95.10
ATOM C	2014	CA	GLY C 481	39.598	81.926	60.564	1.00	95.10
ATOM C	2015	C	GLY C 481	38.949	80.559	60.603	1.00	95.10
ATOM O	2016	O	GLY C 481	38.215	80.163	59.690	1.00	95.10
ATOM N	2017	N	VAL C 482	39.215	79.825	61.678	1.00	93.70

ATOM C	2018	CA	VAL C 482	38.601	78.524	61.891	1.00	93.70
ATOM C	2019	C	VAL C 482	37.728	78.486	63.140	1.00	93.70
ATOM O	2020	O	VAL C 482	37.022	77.487	63.348	1.00	93.70
ATOM C	2021	CB	VAL C 482	39.668	77.412	61.949	1.00	93.70
ATOM C	2022	CG1	VAL C 482	40.551	77.472	60.716	1.00	93.70
ATOM C	2023	CG2	VAL C 482	40.507	77.557	63.197	1.00	93.70
ATOM N	2024	N	GLU C 483	37.749	79.526	63.971	1.00	98.63
ATOM C	2025	CA	GLU C 483	36.904	79.630	65.157	1.00	98.63
ATOM C	2026	C	GLU C 483	35.847	80.719	64.995	1.00	98.63
ATOM O	2027	O	GLU C 483	35.552	81.464	65.931	1.00	98.63
ATOM C	2028	CB	GLU C 483	37.741	79.899	66.405	1.00	98.63
ATOM C	2029	CG	GLU C 483	39.136	79.298	66.397	1.00	98.63
ATOM C	2030	CD	GLU C 483	39.126	77.793	66.581	1.00	98.63
ATOM O	2031	OE1	GLU C 483	40.146	77.147	66.264	1.00	98.63
ATOM O	2032	OE2	GLU C 483	38.099	77.255	67.045	1.00	98.63
ATOM N	2033	N	GLY C 484	35.262	80.821	63.807	1.00	94.01
ATOM C	2034	CA	GLY C 484	34.343	81.902	63.516	1.00	94.01
ATOM C	2035	C	GLY C 484	32.910	81.650	63.932	1.00	94.01
ATOM O	2036	O	GLY C 484	32.001	82.343	63.464	1.00	94.01
ATOM N	2037	N	PHE C 485	32.694	80.624	64.761	1.00	93.62
ATOM C	2038	CA	PHE C 485	31.398	80.325	65.366	1.00	93.62
ATOM C	2039	C	PHE C 485	30.436	79.757	64.325	1.00	93.62
ATOM O	2040	O	PHE C 485	29.371	79.231	64.661	1.00	93.62
ATOM C	2041	CB	PHE C 485	30.837	81.586	66.048	1.00	93.62
ATOM C	2042	CG	PHE C 485	29.348	81.586	66.219	1.00	93.62

ATOM C	2043	CD1	PHE	C	485	28.745	80.790	67.177	1.00	93.62
ATOM C	2044	CD2	PHE	C	485	28.550	82.384	65.417	1.00	93.62
ATOM C	2045	CE1	PHE	C	485	27.373	80.791	67.332	1.00	93.62
ATOM C	2046	CE2	PHE	C	485	27.178	82.390	65.567	1.00	93.62
ATOM C	2047	CZ	PHE	C	485	26.588	81.592	66.526	1.00	93.62
ATOM N	2048	N	ASN	C	486	30.837	79.801	63.056	1.00	84.13
ATOM C	2049	CA	ASN	C	486	30.105	79.146	61.980	1.00	84.13
ATOM C	2050	C	ASN	C	486	31.051	78.365	61.078	1.00	84.13
ATOM O	2051	O	ASN	C	486	30.609	77.766	60.094	1.00	84.13
ATOM C	2052	CB	ASN	C	486	29.307	80.163	61.160	1.00	84.13
ATOM C	2053	CG	ASN	C	486	27.884	80.324	61.657	1.00	84.13
ATOM O	2054	OD1	ASN	C	486	27.334	79.433	62.303	1.00	84.13
ATOM N	2055	ND2	ASN	C	486	27.280	81.466	61.357	1.00	84.13
ATOM N	2056	N	CYS	C	487	32.345	78.381	61.387	1.00	75.18
ATOM C	2057	CA	CYS	C	487	33.355	77.652	60.635	1.00	75.18
ATOM C	2058	C	CYS	C	487	33.396	76.202	61.100	1.00	75.18
ATOM O	2059	O	CYS	C	487	33.435	75.925	62.302	1.00	75.18
ATOM C	2060	CB	CYS	C	487	34.738	78.298	60.793	1.00	75.18
ATOM S	2061	SG	CYS	C	487	34.793	80.098	60.526	1.00	75.18
ATOM N	2062	N	TYR	C	488	33.381	75.278	60.140	1.00	52.10
ATOM C	2063	CA	TYR	C	488	33.433	73.851	60.423	1.00	52.10
ATOM C	2064	C	TYR	C	488	34.520	73.199	59.582	1.00	52.10
ATOM O	2065	O	TYR	C	488	34.672	73.513	58.399	1.00	52.10
ATOM C	2066	CB	TYR	C	488	32.093	73.168	60.133	1.00	52.10
ATOM C	2067	CG	TYR	C	488	30.967	73.569	61.054	1.00	52.10

ATOM C	2068	CD1	TYR	C	488	31.010	73.271	62.406	1.00	52.10
ATOM C	2069	CD2	TYR	C	488	29.856	74.235	60.566	1.00	52.10
ATOM C	2070	CE1	TYR	C	488	29.980	73.635	63.248	1.00	52.10
ATOM C	2071	CE2	TYR	C	488	28.823	74.602	61.397	1.00	52.10
ATOM C	2072	CZ	TYR	C	488	28.889	74.299	62.736	1.00	52.10
ATOM O	2073	OH	TYR	C	488	27.857	74.665	63.566	1.00	52.10
ATOM N	2074	N	PHE	C	489	35.279	72.309	60.203	1.00	34.83
ATOM C	2075	CA	PHE	C	489	36.185	71.446	59.455	1.00	34.83
ATOM C	2076	C	PHE	C	489	35.367	70.362	58.757	1.00	34.83
ATOM O	2077	O	PHE	C	489	34.584	69.672	59.414	1.00	34.83
ATOM C	2078	CB	PHE	C	489	37.214	70.822	60.390	1.00	34.83
ATOM C	2079	CG	PHE	C	489	38.315	70.092	59.683	1.00	34.83
ATOM C	2080	CD1	PHE	C	489	39.159	70.755	58.814	1.00	34.83
ATOM C	2081	CD2	PHE	C	489	38.510	68.739	59.894	1.00	34.83
ATOM C	2082	CE1	PHE	C	489	40.173	70.083	58.168	1.00	34.83
ATOM C	2083	CE2	PHE	C	489	39.522	68.065	59.249	1.00	34.83
ATOM C	2084	CZ	PHE	C	489	40.352	68.735	58.386	1.00	34.83
ATOM N	2085	N	PRO	C	490	35.507	70.187	57.439	1.00	29.56
ATOM C	2086	CA	PRO	C	490	34.527	69.371	56.706	1.00	29.56
ATOM C	2087	C	PRO	C	490	34.671	67.868	56.883	1.00	29.56
ATOM O	2088	O	PRO	C	490	33.725	67.144	56.551	1.00	29.56
ATOM C	2089	CB	PRO	C	490	34.764	69.776	55.247	1.00	29.56
ATOM C	2090	CG	PRO	C	490	36.189	70.163	55.204	1.00	29.56
ATOM C	2091	CD	PRO	C	490	36.515	70.772	56.541	1.00	29.56
ATOM N	2092	N	LEU	C	491	35.791	67.371	57.393	1.00	24.34

ATOM O	2118	O	TYR C 494	34.047	56.578	64.465	1.00	20.11
ATOM C	2119	CB	TYR C 494	34.653	56.048	61.346	1.00	20.11
ATOM C	2120	CG	TYR C 494	33.784	56.129	60.109	1.00	20.11
ATOM C	2121	CD1	TYR C 494	32.416	56.302	60.209	1.00	20.11
ATOM C	2122	CD2	TYR C 494	34.333	55.995	58.843	1.00	20.11
ATOM C	2123	CE1	TYR C 494	31.619	56.358	59.087	1.00	20.11
ATOM C	2124	CE2	TYR C 494	33.543	56.049	57.716	1.00	20.11
ATOM C	2125	CZ	TYR C 494	32.190	56.226	57.845	1.00	20.11
ATOM O	2126	OH	TYR C 494	31.392	56.279	56.729	1.00	20.11
ATOM N	2127	N	GLY C 495	36.235	56.841	64.035	1.00	24.70
ATOM C	2128	CA	GLY C 495	36.655	56.418	65.358	1.00	24.70
ATOM C	2129	C	GLY C 495	36.442	54.946	65.644	1.00	24.70
ATOM O	2130	O	GLY C 495	35.917	54.587	66.699	1.00	24.70
ATOM N	2131	N	PHE C 496	36.846	54.084	64.713	1.00	24.03
ATOM C	2132	CA	PHE C 496	36.641	52.650	64.865	1.00	24.03
ATOM C	2133	C	PHE C 496	37.393	52.111	66.080	1.00	24.03
ATOM O	2134	O	PHE C 496	38.591	52.352	66.239	1.00	24.03
ATOM C	2135	CB	PHE C 496	37.108	51.917	63.606	1.00	24.03
ATOM C	2136	CG	PHE C 496	36.309	52.240	62.369	1.00	24.03
ATOM C	2137	CD1	PHE C 496	34.940	52.060	62.341	1.00	24.03
ATOM C	2138	CD2	PHE C 496	36.939	52.698	61.228	1.00	24.03
ATOM C	2139	CE1	PHE C 496	34.213	52.341	61.201	1.00	24.03
ATOM C	2140	CE2	PHE C 496	36.214	52.982	60.088	1.00	24.03
ATOM C	2141	CZ	PHE C 496	34.855	52.802	60.076	1.00	24.03
ATOM N	2142	N	GLN C 497	36.686	51.365	66.921	1.00	32.09

ATOM N	2268	N	SER C 513	33.396	48.485	38.336	1.00	23.26
ATOM C	2269	CA	SER C 513	32.563	48.941	37.232	1.00	23.26
ATOM C	2270	C	SER C 513	33.118	48.379	35.927	1.00	23.26
ATOM O	2271	O	SER C 513	34.335	48.347	35.731	1.00	23.26
ATOM C	2272	CB	SER C 513	32.509	50.464	37.181	1.00	23.26
ATOM O	2273	OG	SER C 513	31.453	50.899	36.351	1.00	23.26
ATOM N	2274	N	PHE C 514	32.225	47.957	35.030	1.00	29.30
ATOM C	2275	CA	PHE C 514	32.566	46.967	34.007	1.00	29.30
ATOM C	2276	C	PHE C 514	32.713	47.491	32.587	1.00	29.30
ATOM O	2277	O	PHE C 514	33.596	47.020	31.880	1.00	29.30
ATOM C	2278	CB	PHE C 514	31.533	45.840	34.005	1.00	29.30
ATOM C	2279	CG	PHE C 514	31.727	44.863	35.111	1.00	29.30
ATOM C	2280	CD1	PHE C 514	32.955	44.743	35.722	1.00	29.30
ATOM C	2281	CD2	PHE C 514	30.687	44.076	35.547	1.00	29.30
ATOM C	2282	CE1	PHE C 514	33.143	43.855	36.745	1.00	29.30
ATOM C	2283	CE2	PHE C 514	30.872	43.187	36.569	1.00	29.30
ATOM C	2284	CZ	PHE C 514	32.102	43.074	37.168	1.00	29.30
ATOM N	2285	N	GLU C 515	31.852	48.379	32.101	1.00	37.37
ATOM C	2286	CA	GLU C 515	32.015	48.955	30.757	1.00	37.37
ATOM C	2287	C	GLU C 515	32.280	47.881	29.695	1.00	37.37
ATOM O	2288	O	GLU C 515	33.368	47.782	29.132	1.00	37.37
ATOM C	2289	CB	GLU C 515	33.138	49.994	30.739	1.00	37.37
ATOM C	2290	CG	GLU C 515	32.880	51.158	29.812	1.00	37.37
ATOM C	2291	CD	GLU C 515	34.004	52.166	29.826	1.00	37.37
ATOM O	2292	OE1	GLU C 515	35.120	51.821	29.391	1.00	37.37

ATOM O	2293	OE2	GLU	C	515	33.773	53.309	30.263	1.00	37.37
ATOM N	2294	N	LEU	C	516	31.270	47.048	29.467	1.00	43.16
ATOM C	2295	CA	LEU	C	516	31.363	45.995	28.456	1.00	43.16
ATOM C	2296	C	LEU	C	516	31.651	46.567	27.071	1.00	43.16
ATOM O	2297	O	LEU	C	516	32.262	45.908	26.231	1.00	43.16
ATOM C	2298	CB	LEU	C	516	30.075	45.174	28.411	1.00	43.16
ATOM C	2299	CG	LEU	C	516	29.627	44.538	29.724	1.00	43.16
ATOM C	2300	CD1	LEU	C	516	28.425	45.273	30.272	1.00	43.16
ATOM C	2301	CD2	LEU	C	516	29.304	43.076	29.515	1.00	43.16
TER	2302		LEU	C	516					
ATOM N	2303	N	GLN	A	1	59.036	47.697	74.253	1.00	56.72
ATOM C	2304	CA	GLN	A	1	59.634	46.556	74.935	1.00	56.72
ATOM C	2305	C	GLN	A	1	59.618	45.333	74.018	1.00	56.72
ATOM O	2306	O	GLN	A	1	60.017	44.236	74.409	1.00	56.72
ATOM C	2307	CB	GLN	A	1	58.897	46.276	76.252	1.00	56.72
ATOM C	2308	CG	GLN	A	1	59.506	45.188	77.140	1.00	56.72
ATOM C	2309	CD	GLN	A	1	60.985	45.395	77.432	1.00	56.72
ATOM O	2310	OE1	GLN	A	1	61.514	46.501	77.313	1.00	56.72
ATOM N	2311	NE2	GLN	A	1	61.661	44.318	77.812	1.00	56.72
ATOM N	2312	N	VAL	A	2	59.169	45.536	72.779	1.00	48.14
ATOM C	2313	CA	VAL	A	2	59.157	44.442	71.819	1.00	48.14
ATOM C	2314	C	VAL	A	2	60.583	43.968	71.568	1.00	48.14
ATOM O	2315	O	VAL	A	2	61.535	44.759	71.550	1.00	48.14
ATOM C	2316	CB	VAL	A	2	58.454	44.872	70.520	1.00	48.14
ATOM C	2317	CG1	VAL	A	2	57.194	45.649	70.846	1.00	48.14
ATOM	2318	CG2	VAL	A	2	59.371	45.704	69.653	1.00	48.14

C										
ATOM	2319	N	GLN	A	3	60.738	42.658	71.416	1.00	45.04
N										
ATOM	2320	CA	GLN	A	3	62.036	42.028	71.232	1.00	45.04
C										
ATOM	2321	C	GLN	A	3	61.928	40.979	70.139	1.00	45.04
C										
ATOM	2322	O	GLN	A	3	61.016	40.148	70.163	1.00	45.04
O										
ATOM	2323	CB	GLN	A	3	62.523	41.374	72.528	1.00	45.04
C										
ATOM	2324	CG	GLN	A	3	63.951	41.699	72.902	1.00	45.04
C										
ATOM	2325	CD	GLN	A	3	64.259	43.179	72.824	1.00	45.04
C										
ATOM	2326	OE1	GLN	A	3	63.481	44.012	73.286	1.00	45.04
O										
ATOM	2327	NE2	GLN	A	3	65.396	43.515	72.230	1.00	45.04
N										
ATOM	2328	N	LEU	A	4	62.854	41.017	69.187	1.00	36.15
N										
ATOM	2329	CA	LEU	A	4	62.978	39.991	68.162	1.00	36.15
C										
ATOM	2330	C	LEU	A	4	64.411	39.494	68.164	1.00	36.15
C										
ATOM	2331	O	LEU	A	4	65.343	40.290	68.026	1.00	36.15
O										
ATOM	2332	CB	LEU	A	4	62.603	40.528	66.779	1.00	36.15
C										
ATOM	2333	CG	LEU	A	4	61.179	41.049	66.608	1.00	36.15
C										
ATOM	2334	CD1	LEU	A	4	61.044	41.806	65.301	1.00	36.15
C										
ATOM	2335	CD2	LEU	A	4	60.207	39.898	66.650	1.00	36.15
C										
ATOM	2336	N	VAL	A	5	64.589	38.188	68.317	1.00	33.49
N										
ATOM	2337	CA	VAL	A	5	65.906	37.580	68.439	1.00	33.49
C										
ATOM	2338	C	VAL	A	5	66.115	36.674	67.237	1.00	33.49
C										
ATOM	2339	O	VAL	A	5	65.442	35.646	67.105	1.00	33.49
O										
ATOM	2340	CB	VAL	A	5	66.052	36.798	69.749	1.00	33.49
C										
ATOM	2341	CG1	VAL	A	5	67.421	36.150	69.828	1.00	33.49
C										
ATOM	2342	CG2	VAL	A	5	65.815	37.714	70.938	1.00	33.49
C										
ATOM	2343	N	GLU	A	6	67.040	37.054	66.362	1.00	31.93

N										
ATOM	2344	CA	GLU	A	6	67.342	36.263	65.181	1.00	31.93
C										
ATOM	2345	C	GLU	A	6	68.316	35.145	65.527	1.00	31.93
C										
ATOM	2346	O	GLU	A	6	69.078	35.234	66.491	1.00	31.93
O										
ATOM	2347	CB	GLU	A	6	67.926	37.149	64.082	1.00	31.93
C										
ATOM	2348	CG	GLU	A	6	66.912	38.049	63.412	1.00	31.93
C										
ATOM	2349	CD	GLU	A	6	67.099	39.506	63.763	1.00	31.93
C										
ATOM	2350	OE1	GLU	A	6	67.861	39.801	64.703	1.00	31.93
O										
ATOM	2351	OE2	GLU	A	6	66.480	40.360	63.101	1.00	31.93
O										
ATOM	2352	N	SER	A	7	68.276	34.078	64.734	1.00	33.01
N										
ATOM	2353	CA	SER	A	7	69.133	32.925	64.963	1.00	33.01
C										
ATOM	2354	C	SER	A	7	69.233	32.124	63.678	1.00	33.01
C										
ATOM	2355	O	SER	A	7	68.350	32.174	62.817	1.00	33.01
O										
ATOM	2356	CB	SER	A	7	68.609	32.044	66.098	1.00	33.01
C										
ATOM	2357	OG	SER	A	7	68.604	32.747	67.326	1.00	33.01
O										
ATOM	2358	N	GLY	A	8	70.301	31.347	63.586	1.00	33.45
N										
ATOM	2359	CA	GLY	A	8	70.669	30.718	62.340	1.00	33.45
C										
ATOM	2360	C	GLY	A	8	71.530	31.640	61.512	1.00	33.45
C										
ATOM	2361	O	GLY	A	8	71.757	32.806	61.838	1.00	33.45
O										
ATOM	2362	N	GLY	A	9	72.070	31.088	60.438	1.00	36.48
N										
ATOM	2363	CA	GLY	A	9	72.768	31.902	59.467	1.00	36.48
C										
ATOM	2364	C	GLY	A	9	74.243	32.071	59.757	1.00	36.48
C										
ATOM	2365	O	GLY	A	9	74.624	32.796	60.679	1.00	36.48
O										
ATOM	2366	N	THR	A	10	75.077	31.447	58.934	1.00	42.78
N										
ATOM	2367	CA	THR	A	10	76.534	31.465	59.017	1.00	42.78
C										
ATOM	2368	C	THR	A	10	77.056	31.211	57.610	1.00	42.78

C										
ATOM	2369	O	THR	A	10	76.318	31.360	56.630	1.00	42.78
O										
ATOM	2370	CB	THR	A	10	77.078	30.408	60.000	1.00	42.78
C										
ATOM	2371	OG1	THR	A	10	76.760	29.094	59.522	1.00	42.78
O										
ATOM	2372	CG2	THR	A	10	76.564	30.590	61.427	1.00	42.78
C										
ATOM	2373	N	VAL	A	11	78.332	30.842	57.507	1.00	42.87
N										
ATOM	2374	CA	VAL	A	11	78.849	30.383	56.231	1.00	42.87
C										
ATOM	2375	C	VAL	A	11	78.095	29.128	55.816	1.00	42.87
C										
ATOM	2376	O	VAL	A	11	77.649	28.336	56.653	1.00	42.87
O										
ATOM	2377	CB	VAL	A	11	80.361	30.121	56.318	1.00	42.87
C										
ATOM	2378	CG1	VAL	A	11	80.965	30.071	54.935	1.00	42.87
C										
ATOM	2379	CG2	VAL	A	11	81.027	31.191	57.157	1.00	42.87
C										
ATOM	2380	N	LEU	A	12	77.935	28.951	54.510	1.00	44.63
N										
ATOM	2381	CA	LEU	A	12	77.215	27.798	53.996	1.00	44.63
C										
ATOM	2382	C	LEU	A	12	77.733	27.467	52.607	1.00	44.63
C										
ATOM	2383	O	LEU	A	12	77.819	28.348	51.749	1.00	44.63
O										
ATOM	2384	CB	LEU	A	12	75.708	28.059	53.953	1.00	44.63
C										
ATOM	2385	CG	LEU	A	12	74.917	26.835	53.509	1.00	44.63
C										
ATOM	2386	CD1	LEU	A	12	73.954	26.398	54.592	1.00	44.63
C										
ATOM	2387	CD2	LEU	A	12	74.190	27.112	52.214	1.00	44.63
C										
ATOM	2388	N	GLN	A	13	78.074	26.202	52.395	1.00	48.35
N										
ATOM	2389	CA	GLN	A	13	78.584	25.782	51.105	1.00	48.35
C										
ATOM	2390	C	GLN	A	13	77.481	25.853	50.052	1.00	48.35
C										
ATOM	2391	O	GLN	A	13	76.314	25.595	50.349	1.00	48.35
O										
ATOM	2392	CB	GLN	A	13	79.138	24.364	51.189	1.00	48.35
C										
ATOM	2393	CG	GLN	A	13	79.819	24.052	52.511	1.00	48.35

C										
ATOM	2394	CD	GLN	A	13	80.979	24.983	52.812	1.00	48.35
C										
ATOM	2395	OE1	GLN	A	13	81.627	25.499	51.904	1.00	48.35
O										
ATOM	2396	NE2	GLN	A	13	81.245	25.201	54.093	1.00	48.35
N										
ATOM	2397	N	PRO	A	14	77.828	26.203	48.816	1.00	48.21
N										
ATOM	2398	CA	PRO	A	14	76.801	26.377	47.783	1.00	48.21
C										
ATOM	2399	C	PRO	A	14	75.980	25.114	47.577	1.00	48.21
C										
ATOM	2400	O	PRO	A	14	76.490	23.995	47.663	1.00	48.21
O										
ATOM	2401	CB	PRO	A	14	77.615	26.728	46.534	1.00	48.21
C										
ATOM	2402	CG	PRO	A	14	78.869	27.321	47.067	1.00	48.21
C										
ATOM	2403	CD	PRO	A	14	79.165	26.593	48.339	1.00	48.21
C										
ATOM	2404	N	GLY	A	15	74.691	25.308	47.313	1.00	47.60
N										
ATOM	2405	CA	GLY	A	15	73.770	24.224	47.081	1.00	47.60
C										
ATOM	2406	C	GLY	A	15	73.120	23.657	48.325	1.00	47.60
C										
ATOM	2407	O	GLY	A	15	72.116	22.948	48.210	1.00	47.60
O										
ATOM	2408	N	ARG	A	16	73.652	23.954	49.506	1.00	47.46
N										
ATOM	2409	CA	ARG	A	16	73.078	23.444	50.739	1.00	47.46
C										
ATOM	2410	C	ARG	A	16	71.800	24.204	51.093	1.00	47.46
C										
ATOM	2411	O	ARG	A	16	71.491	25.257	50.531	1.00	47.46
O										
ATOM	2412	CB	ARG	A	16	74.087	23.546	51.881	1.00	47.46
C										
ATOM	2413	CG	ARG	A	16	75.351	22.734	51.681	1.00	47.46
C										
ATOM	2414	CD	ARG	A	16	75.060	21.386	51.038	1.00	47.46
C										
ATOM	2415	NE	ARG	A	16	76.192	20.822	50.296	1.00	47.46
N										
ATOM	2416	CZ	ARG	A	16	77.436	20.673	50.754	1.00	47.46
C										
ATOM	2417	NH1	ARG	A	16	77.763	21.004	51.998	1.00	47.46
N										
ATOM	2418	NH2	ARG	A	16	78.361	20.152	49.961	1.00	47.46

N									
ATOM	2419	N	SER	A	17	71.049	23.648	52.036	1.00 41.01
N									
ATOM	2420	CA	SER	A	17	69.841	24.270	52.555	1.00 41.01
C									
ATOM	2421	C	SER	A	17	70.122	24.887	53.916	1.00 41.01
C									
ATOM	2422	O	SER	A	17	71.021	24.457	54.641	1.00 41.01
O									
ATOM	2423	CB	SER	A	17	68.703	23.255	52.669	1.00 41.01
C									
ATOM	2424	OG	SER	A	17	68.137	22.980	51.403	1.00 41.01
O									
ATOM	2425	N	LEU	A	18	69.346	25.912	54.257	1.00 35.63
N									
ATOM	2426	CA	LEU	A	18	69.543	26.612	55.515	1.00 35.63
C									
ATOM	2427	C	LEU	A	18	68.187	27.040	56.052	1.00 35.63
C									
ATOM	2428	O	LEU	A	18	67.227	27.192	55.297	1.00 35.63
O									
ATOM	2429	CB	LEU	A	18	70.472	27.821	55.333	1.00 35.63
C									
ATOM	2430	CG	LEU	A	18	71.048	28.490	56.579	1.00 35.63
C									
ATOM	2431	CD1	LEU	A	18	71.821	27.496	57.414	1.00 35.63
C									
ATOM	2432	CD2	LEU	A	18	71.928	29.662	56.193	1.00 35.63
C									
ATOM	2433	N	ARG	A	19	68.108	27.203	57.367	1.00 32.71
N									
ATOM	2434	CA	ARG	A	19	66.901	27.693	58.016	1.00 32.71
C									
ATOM	2435	C	ARG	A	19	67.277	28.780	59.008	1.00 32.71
C									
ATOM	2436	O	ARG	A	19	68.120	28.558	59.879	1.00 32.71
O									
ATOM	2437	CB	ARG	A	19	66.143	26.564	58.733	1.00 32.71
C									
ATOM	2438	CG	ARG	A	19	64.641	26.807	58.841	1.00 32.71
C									
ATOM	2439	CD	ARG	A	19	63.896	25.600	59.393	1.00 32.71
C									
ATOM	2440	NE	ARG	A	19	64.024	25.499	60.840	1.00 32.71
N									
ATOM	2441	CZ	ARG	A	19	63.143	24.888	61.623	1.00 32.71
C									
ATOM	2442	NH1	ARG	A	19	62.066	24.326	61.097	1.00 32.71
N									
ATOM	2443	NH2	ARG	A	19	63.338	24.841	62.932	1.00 32.71

N										
ATOM	2444	N	LEU	A	20	66.662	29.951	58.874	1.00	26.93
N										
ATOM	2445	CA	LEU	A	20	66.765	30.972	59.904	1.00	26.93
C										
ATOM	2446	C	LEU	A	20	65.492	31.012	60.726	1.00	26.93
C										
ATOM	2447	O	LEU	A	20	64.411	30.651	60.261	1.00	26.93
O										
ATOM	2448	CB	LEU	A	20	67.022	32.371	59.340	1.00	26.93
C										
ATOM	2449	CG	LEU	A	20	67.845	32.633	58.100	1.00	26.93
C										
ATOM	2450	CD1	LEU	A	20	67.632	34.094	57.700	1.00	26.93
C										
ATOM	2451	CD2	LEU	A	20	69.297	32.334	58.371	1.00	26.93
C										
ATOM	2452	N	SER	A	21	65.633	31.485	61.953	1.00	26.10
N										
ATOM	2453	CA	SER	A	21	64.503	31.596	62.852	1.00	26.10
C										
ATOM	2454	C	SER	A	21	64.598	32.917	63.591	1.00	26.10
C										
ATOM	2455	O	SER	A	21	65.671	33.503	63.715	1.00	26.10
O										
ATOM	2456	CB	SER	A	21	64.451	30.424	63.838	1.00	26.10
C										
ATOM	2457	OG	SER	A	21	65.405	30.588	64.864	1.00	26.10
O										
ATOM	2458	N	CYS	A	22	63.454	33.391	64.060	1.00	26.66
N										
ATOM	2459	CA	CYS	A	22	63.355	34.663	64.757	1.00	26.66
C										
ATOM	2460	C	CYS	A	22	62.310	34.498	65.848	1.00	26.66
C										
ATOM	2461	O	CYS	A	22	61.151	34.209	65.553	1.00	26.66
O										
ATOM	2462	CB	CYS	A	22	62.988	35.784	63.769	1.00	26.66
C										
ATOM	2463	SG	CYS	A	22	62.337	37.323	64.438	1.00	26.66
S										
ATOM	2464	N	ALA	A	23	62.719	34.651	67.101	1.00	30.10
N										
ATOM	2465	CA	ALA	A	23	61.846	34.427	68.247	1.00	30.10
C										
ATOM	2466	C	ALA	A	23	61.400	35.765	68.814	1.00	30.10
C										
ATOM	2467	O	ALA	A	23	62.216	36.674	68.979	1.00	30.10
O										
ATOM	2468	CB	ALA	A	23	62.553	33.601	69.322	1.00	30.10

C										
ATOM	2469	N	ALA	A	24	60.111	35.885	69.108	1.00	34.23
N										
ATOM	2470	CA	ALA	A	24	59.512	37.155	69.484	1.00	34.23
C										
ATOM	2471	C	ALA	A	24	59.146	37.172	70.962	1.00	34.23
C										
ATOM	2472	O	ALA	A	24	58.812	36.142	71.551	1.00	34.23
O										
ATOM	2473	CB	ALA	A	24	58.266	37.442	68.647	1.00	34.23
C										
ATOM	2474	N	SER	A	25	59.210	38.362	71.550	1.00	39.64
N										
ATOM	2475	CA	SER	A	25	58.851	38.558	72.945	1.00	39.64
C										
ATOM	2476	C	SER	A	25	58.331	39.973	73.122	1.00	39.64
C										
ATOM	2477	O	SER	A	25	58.664	40.872	72.348	1.00	39.64
O										
ATOM	2478	CB	SER	A	25	60.044	38.315	73.873	1.00	39.64
C										
ATOM	2479	OG	SER	A	25	60.520	36.990	73.744	1.00	39.64
O										
ATOM	2480	N	GLY	A	26	57.508	40.164	74.147	1.00	39.48
N										
ATOM	2481	CA	GLY	A	26	57.023	41.487	74.467	1.00	39.48
C										
ATOM	2482	C	GLY	A	26	55.867	41.986	73.634	1.00	39.48
C										
ATOM	2483	O	GLY	A	26	55.541	43.174	73.713	1.00	39.48
O										
ATOM	2484	N	PHE	A	27	55.248	41.132	72.824	1.00	33.26
N										
ATOM	2485	CA	PHE	A	27	54.008	41.490	72.150	1.00	33.26
C										
ATOM	2486	C	PHE	A	27	53.255	40.207	71.835	1.00	33.26
C										
ATOM	2487	O	PHE	A	27	53.799	39.107	71.929	1.00	33.26
O										
ATOM	2488	CB	PHE	A	27	54.254	42.342	70.894	1.00	33.26
C										
ATOM	2489	CG	PHE	A	27	54.996	41.634	69.789	1.00	33.26
C										
ATOM	2490	CD1	PHE	A	27	54.314	41.109	68.706	1.00	33.26
C										
ATOM	2491	CD2	PHE	A	27	56.375	41.527	69.817	1.00	33.26
C										
ATOM	2492	CE1	PHE	A	27	54.992	40.470	67.685	1.00	33.26
C										
ATOM	2493	CE2	PHE	A	27	57.054	40.889	68.798	1.00	33.26

C										
ATOM	2494	CZ	PHE	A	27	56.360	40.361	67.733	1.00	33.26
C										
ATOM	2495	N	THR	A	28	51.981	40.362	71.496	1.00	30.28
N										
ATOM	2496	CA	THR	A	28	51.126	39.218	71.196	1.00	30.28
C										
ATOM	2497	C	THR	A	28	51.442	38.752	69.781	1.00	30.28
C										
ATOM	2498	O	THR	A	28	50.960	39.322	68.802	1.00	30.28
O										
ATOM	2499	CB	THR	A	28	49.657	39.586	71.357	1.00	30.28
C										
ATOM	2500	OG1	THR	A	28	49.417	39.992	72.709	1.00	30.28
O										
ATOM	2501	CG2	THR	A	28	48.782	38.389	71.051	1.00	30.28
C										
ATOM	2502	N	PHE	A	29	52.252	37.696	69.688	1.00	24.75
N										
ATOM	2503	CA	PHE	A	29	52.784	37.228	68.410	1.00	24.75
C										
ATOM	2504	C	PHE	A	29	51.672	36.845	67.442	1.00	24.75
C										
ATOM	2505	O	PHE	A	29	51.776	37.093	66.237	1.00	24.75
O										
ATOM	2506	CB	PHE	A	29	53.718	36.045	68.679	1.00	24.75
C										
ATOM	2507	CG	PHE	A	29	54.420	35.499	67.467	1.00	24.75
C										
ATOM	2508	CD1	PHE	A	29	55.498	36.160	66.911	1.00	24.75
C										
ATOM	2509	CD2	PHE	A	29	54.039	34.287	66.926	1.00	24.75
C										
ATOM	2510	CE1	PHE	A	29	56.157	35.638	65.821	1.00	24.75
C										
ATOM	2511	CE2	PHE	A	29	54.694	33.762	65.838	1.00	24.75
C										
ATOM	2512	CZ	PHE	A	29	55.754	34.440	65.283	1.00	24.75
C										
ATOM	2513	N	SER	A	30	50.588	36.260	67.955	1.00	25.64
N										
ATOM	2514	CA	SER	A	30	49.535	35.727	67.101	1.00	25.64
C										
ATOM	2515	C	SER	A	30	48.760	36.805	66.359	1.00	25.64
C										
ATOM	2516	O	SER	A	30	48.175	36.513	65.315	1.00	25.64
O										
ATOM	2517	CB	SER	A	30	48.563	34.887	67.929	1.00	25.64
C										
ATOM	2518	OG	SER	A	30	49.255	33.905	68.672	1.00	25.64

O										
ATOM	2519	N	SER	A	31	48.733	38.033	66.865	1.00	25.71
N										
ATOM	2520	CA	SER	A	31	47.966	39.102	66.245	1.00	25.71
C										
ATOM	2521	C	SER	A	31	48.809	39.980	65.328	1.00	25.71
C										
ATOM	2522	O	SER	A	31	48.338	41.032	64.895	1.00	25.71
O										
ATOM	2523	CB	SER	A	31	47.293	39.959	67.318	1.00	25.71
C										
ATOM	2524	OG	SER	A	31	48.253	40.636	68.104	1.00	25.71
O										
ATOM	2525	N	TYR	A	32	50.036	39.572	65.020	1.00	23.10
N										
ATOM	2526	CA	TYR	A	32	50.923	40.328	64.148	1.00	23.10
C										
ATOM	2527	C	TYR	A	32	51.300	39.492	62.933	1.00	23.10
C										
ATOM	2528	O	TYR	A	32	51.536	38.289	63.047	1.00	23.10
O										
ATOM	2529	CB	TYR	A	32	52.192	40.752	64.886	1.00	23.10
C										
ATOM	2530	CG	TYR	A	32	52.033	41.982	65.739	1.00	23.10
C										
ATOM	2531	CD1	TYR	A	32	52.671	43.161	65.409	1.00	23.10
C										
ATOM	2532	CD2	TYR	A	32	51.244	41.964	66.877	1.00	23.10
C										
ATOM	2533	CE1	TYR	A	32	52.534	44.285	66.183	1.00	23.10
C										
ATOM	2534	CE2	TYR	A	32	51.101	43.087	67.657	1.00	23.10
C										
ATOM	2535	CZ	TYR	A	32	51.746	44.242	67.303	1.00	23.10
C										
ATOM	2536	OH	TYR	A	32	51.607	45.365	68.081	1.00	23.10
O										
ATOM	2537	N	ALA	A	33	51.334	40.133	61.769	1.00	17.88
N										
ATOM	2538	CA	ALA	A	33	51.905	39.527	60.577	1.00	17.88
C										
ATOM	2539	C	ALA	A	33	53.418	39.704	60.609	1.00	17.88
C										
ATOM	2540	O	ALA	A	33	53.919	40.729	61.071	1.00	17.88
O										
ATOM	2541	CB	ALA	A	33	51.317	40.167	59.320	1.00	17.88
C										
ATOM	2542	N	MET	A	34	54.150	38.700	60.139	1.00	17.58
N										
ATOM	2543	CA	MET	A	34	55.601	38.692	60.293	1.00	17.58

C										
ATOM	2544	C	MET	A	34	56.271	38.616	58.929	1.00	17.58
C										
ATOM	2545	O	MET	A	34	55.790	37.928	58.033	1.00	17.58
O										
ATOM	2546	CB	MET	A	34	56.057	37.522	61.172	1.00	17.58
C										
ATOM	2547	CG	MET	A	34	55.427	37.486	62.563	1.00	17.58
C										
ATOM	2548	SD	MET	A	34	55.813	38.909	63.596	1.00	17.58
S										
ATOM	2549	CE	MET	A	34	57.580	38.724	63.773	1.00	17.58
C										
ATOM	2550	N	HIS	A	35	57.390	39.316	58.767	1.00	16.19
N										
ATOM	2551	CA	HIS	A	35	58.039	39.344	57.464	1.00	16.19
C										
ATOM	2552	C	HIS	A	35	59.546	39.514	57.599	1.00	16.19
C										
ATOM	2553	O	HIS	A	35	60.076	39.812	58.669	1.00	16.19
O										
ATOM	2554	CB	HIS	A	35	57.403	40.404	56.560	1.00	16.19
C										
ATOM	2555	CG	HIS	A	35	56.946	41.629	57.276	1.00	16.19
C										
ATOM	2556	ND1	HIS	A	35	57.727	42.752	57.416	1.00	16.19
N										
ATOM	2557	CD2	HIS	A	35	55.762	41.915	57.867	1.00	16.19
C										
ATOM	2558	CE1	HIS	A	35	57.051	43.673	58.076	1.00	16.19
C										
ATOM	2559	NE2	HIS	A	35	55.854	43.193	58.356	1.00	16.19
N										
ATOM	2560	N	TRP	A	36	60.231	39.260	56.488	1.00	16.35
N										
ATOM	2561	CA	TRP	A	36	61.687	39.304	56.425	1.00	16.35
C										
ATOM	2562	C	TRP	A	36	62.127	40.339	55.401	1.00	16.35
C										
ATOM	2563	O	TRP	A	36	61.522	40.466	54.337	1.00	16.35
O										
ATOM	2564	CB	TRP	A	36	62.280	37.941	56.042	1.00	16.35
C										
ATOM	2565	CG	TRP	A	36	62.169	36.875	57.085	1.00	16.35
C										
ATOM	2566	CD1	TRP	A	36	61.168	35.965	57.215	1.00	16.35
C										
ATOM	2567	CD2	TRP	A	36	63.111	36.586	58.121	1.00	16.35
C										
ATOM	2568	NE1	TRP	A	36	61.418	35.134	58.274	1.00	16.35

N										
ATOM	2569	CE2	TRP	A	36	62.605	35.496	58.849	1.00	16.35
C										
ATOM	2570	CE3	TRP	A	36	64.329	37.148	58.509	1.00	16.35
C										
ATOM	2571	CZ2	TRP	A	36	63.273	34.955	59.939	1.00	16.35
C										
ATOM	2572	CZ3	TRP	A	36	64.988	36.609	59.592	1.00	16.35
C										
ATOM	2573	CH2	TRP	A	36	64.459	35.525	60.295	1.00	16.35
C										
ATOM	2574	N	VAL	A	37	63.184	41.071	55.732	1.00	15.71
N										
ATOM	2575	CA	VAL	A	37	63.831	42.009	54.824	1.00	15.71
C										
ATOM	2576	C	VAL	A	37	65.296	41.606	54.773	1.00	15.71
C										
ATOM	2577	O	VAL	A	37	65.804	40.999	55.711	1.00	15.71
O										
ATOM	2578	CB	VAL	A	37	63.649	43.470	55.300	1.00	15.71
C										
ATOM	2579	CG1	VAL	A	37	64.468	44.446	54.466	1.00	15.71
C										
ATOM	2580	CG2	VAL	A	37	62.185	43.852	55.264	1.00	15.71
C										
ATOM	2581	N	ARG	A	38	65.969	41.878	53.662	1.00	17.46
N										
ATOM	2582	CA	ARG	A	38	67.382	41.539	53.573	1.00	17.46
C										
ATOM	2583	C	ARG	A	38	68.151	42.660	52.894	1.00	17.46
C										
ATOM	2584	O	ARG	A	38	67.585	43.496	52.191	1.00	17.46
O										
ATOM	2585	CB	ARG	A	38	67.609	40.219	52.826	1.00	17.46
C										
ATOM	2586	CG	ARG	A	38	67.445	40.308	51.335	1.00	17.46
C										
ATOM	2587	CD	ARG	A	38	67.762	38.981	50.674	1.00	17.46
C										
ATOM	2588	NE	ARG	A	38	67.484	39.027	49.247	1.00	17.46
N										
ATOM	2589	CZ	ARG	A	38	67.506	37.970	48.445	1.00	17.46
C										
ATOM	2590	NH1	ARG	A	38	67.800	36.774	48.925	1.00	17.46
N										
ATOM	2591	NH2	ARG	A	38	67.234	38.114	47.160	1.00	17.46
N										
ATOM	2592	N	GLN	A	39	69.458	42.660	53.129	1.00	20.75
N										
ATOM	2593	CA	GLN	A	39	70.374	43.627	52.537	1.00	20.75

C										
ATOM	2594	C	GLN	A	39	71.662	42.911	52.169	1.00	20.75
C										
ATOM	2595	O	GLN	A	39	72.343	42.379	53.046	1.00	20.75
O										
ATOM	2596	CB	GLN	A	39	70.661	44.772	53.509	1.00	20.75
C										
ATOM	2597	CG	GLN	A	39	71.638	45.790	52.986	1.00	20.75
C										
ATOM	2598	CD	GLN	A	39	71.596	47.067	53.779	1.00	20.75
C										
ATOM	2599	OE1	GLN	A	39	71.422	47.048	54.993	1.00	20.75
O										
ATOM	2600	NE2	GLN	A	39	71.747	48.187	53.097	1.00	20.75
N										
ATOM	2601	N	LEU	A	40	71.978	42.881	50.910	1.00	24.03
N										
ATOM	2602	CA	LEU	A	40	73.227	42.283	50.463	1.00	24.03
C										
ATOM	2603	C	LEU	A	40	74.357	43.308	50.509	1.00	24.03
C										
ATOM	2604	O	LEU	A	40	74.111	44.511	50.411	1.00	24.03
O										
ATOM	2605	CB	LEU	A	40	73.077	41.746	49.045	1.00	24.03
C										
ATOM	2606	N	PRO	A	41	75.605	42.870	50.672	1.00	26.76
N										
ATOM	2607	CA	PRO	A	41	76.723	43.824	50.673	1.00	26.76
C										
ATOM	2608	C	PRO	A	41	76.795	44.589	49.359	1.00	26.76
C										
ATOM	2609	O	PRO	A	41	76.754	44.004	48.276	1.00	26.76
O										
ATOM	2610	CB	PRO	A	41	77.955	42.934	50.877	1.00	26.76
C										
ATOM	2611	CG	PRO	A	41	77.439	41.663	51.430	1.00	26.76
C										
ATOM	2612	CD	PRO	A	41	76.054	41.487	50.898	1.00	26.76
C										
ATOM	2613	N	GLY	A	42	76.894	45.909	49.463	1.00	28.41
N										
ATOM	2614	CA	GLY	A	42	76.944	46.735	48.276	1.00	28.41
C										
ATOM	2615	C	GLY	A	42	75.630	46.909	47.555	1.00	28.41
C										
ATOM	2616	O	GLY	A	42	75.626	47.348	46.403	1.00	28.41
O										
ATOM	2617	N	LYS	A	43	74.511	46.568	48.186	1.00	26.43
N										
ATOM	2618	CA	LYS	A	43	73.200	46.750	47.586	1.00	26.43

C										
ATOM	2619	C	LYS	A	43	72.260	47.342	48.623	1.00	26.43
C										
ATOM	2620	O	LYS	A	43	72.561	47.380	49.816	1.00	26.43
O										
ATOM	2621	CB	LYS	A	43	72.634	45.436	47.042	1.00	26.43
C										
ATOM	2622	CG	LYS	A	43	73.523	44.737	46.041	1.00	26.43
C										
ATOM	2623	CD	LYS	A	43	72.711	43.843	45.130	1.00	26.43
C										
ATOM	2624	CE	LYS	A	43	73.570	43.269	44.017	1.00	26.43
C										
ATOM	2625	NZ	LYS	A	43	74.835	44.034	43.832	1.00	26.43
N										
ATOM	2626	N	GLY	A	44	71.111	47.811	48.152	1.00	20.13
N										
ATOM	2627	CA	GLY	A	44	70.102	48.356	49.031	1.00	20.13
C										
ATOM	2628	C	GLY	A	44	69.233	47.282	49.662	1.00	20.13
C										
ATOM	2629	O	GLY	A	44	69.417	46.084	49.465	1.00	20.13
O										
ATOM	2630	N	LEU	A	45	68.259	47.743	50.438	1.00	16.62
N										
ATOM	2631	CA	LEU	A	45	67.336	46.856	51.135	1.00	16.62
C										
ATOM	2632	C	LEU	A	45	66.403	46.149	50.158	1.00	16.62
C										
ATOM	2633	O	LEU	A	45	65.990	46.709	49.143	1.00	16.62
O										
ATOM	2634	CB	LEU	A	45	66.516	47.651	52.147	1.00	16.62
C										
ATOM	2635	CG	LEU	A	45	67.302	48.358	53.246	1.00	16.62
C										
ATOM	2636	CD1	LEU	A	45	66.528	49.555	53.761	1.00	16.62
C										
ATOM	2637	CD2	LEU	A	45	67.597	47.390	54.373	1.00	16.62
C										
ATOM	2638	N	GLU	A	46	66.064	44.902	50.479	1.00	18.11
N										
ATOM	2639	CA	GLU	A	46	65.142	44.116	49.669	1.00	18.11
C										
ATOM	2640	C	GLU	A	46	64.164	43.378	50.571	1.00	18.11
C										
ATOM	2641	O	GLU	A	46	64.566	42.785	51.572	1.00	18.11
O										
ATOM	2642	CB	GLU	A	46	65.893	43.112	48.788	1.00	18.11
C										
ATOM	2643	CG	GLU	A	46	66.669	43.740	47.653	1.00	18.11

C										
ATOM	2644	CD	GLU	A	46	67.177	42.710	46.671	1.00	18.11
C										
ATOM	2645	OE1	GLU	A	46	67.573	41.614	47.114	1.00	18.11
O										
ATOM	2646	OE2	GLU	A	46	67.171	42.995	45.460	1.00	18.11
O										
ATOM	2647	N	TRP	A	47	62.888	43.409	50.206	1.00	14.93
N										
ATOM	2648	CA	TRP	A	47	61.829	42.717	50.931	1.00	14.93
C										
ATOM	2649	C	TRP	A	47	61.739	41.272	50.458	1.00	14.93
C										
ATOM	2650	O	TRP	A	47	61.842	40.993	49.264	1.00	14.93
O										
ATOM	2651	CB	TRP	A	47	60.512	43.460	50.700	1.00	14.93
C										
ATOM	2652	CG	TRP	A	47	59.284	43.037	51.458	1.00	14.93
C										
ATOM	2653	CD1	TRP	A	47	58.810	43.581	52.614	1.00	14.93
C										
ATOM	2654	CD2	TRP	A	47	58.317	42.067	51.050	1.00	14.93
C										
ATOM	2655	NE1	TRP	A	47	57.631	42.982	52.970	1.00	14.93
N										
ATOM	2656	CE2	TRP	A	47	57.304	42.050	52.025	1.00	14.93
C										
ATOM	2657	CE3	TRP	A	47	58.220	41.195	49.968	1.00	14.93
C										
ATOM	2658	CZ2	TRP	A	47	56.209	41.198	51.945	1.00	14.93
C										
ATOM	2659	CZ3	TRP	A	47	57.133	40.350	49.892	1.00	14.93
C										
ATOM	2660	CH2	TRP	A	47	56.143	40.358	50.875	1.00	14.93
C										
ATOM	2661	N	VAL	A	48	61.548	40.350	51.400	1.00	15.82
N										
ATOM	2662	CA	VAL	A	48	61.666	38.927	51.098	1.00	15.82
C										
ATOM	2663	C	VAL	A	48	60.298	38.249	51.070	1.00	15.82
C										
ATOM	2664	O	VAL	A	48	59.830	37.829	50.009	1.00	15.82
O										
ATOM	2665	CB	VAL	A	48	62.616	38.256	52.111	1.00	15.82
C										
ATOM	2666	CG1	VAL	A	48	62.717	36.778	51.894	1.00	15.82
C										
ATOM	2667	CG2	VAL	A	48	64.002	38.869	52.007	1.00	15.82
C										
ATOM	2668	N	ALA	A	49	59.625	38.179	52.214	1.00	15.41

N										
ATOM	2669	CA	ALA	A	49	58.382	37.425	52.299	1.00	15.41
C										
ATOM	2670	C	ALA	A	49	57.612	37.849	53.539	1.00	15.41
C										
ATOM	2671	O	ALA	A	49	58.183	38.387	54.490	1.00	15.41
O										
ATOM	2672	CB	ALA	A	49	58.645	35.919	52.337	1.00	15.41
C										
ATOM	2673	N	VAL	A	50	56.304	37.569	53.519	1.00	16.30
N										
ATOM	2674	CA	VAL	A	50	55.409	37.873	54.630	1.00	16.30
C										
ATOM	2675	C	VAL	A	50	54.476	36.693	54.879	1.00	16.30
C										
ATOM	2676	O	VAL	A	50	54.025	36.013	53.946	1.00	16.30
O										
ATOM	2677	CB	VAL	A	50	54.598	39.167	54.386	1.00	16.30
C										
ATOM	2678	CG1	VAL	A	50	53.648	39.002	53.208	1.00	16.30
C										
ATOM	2679	CG2	VAL	A	50	53.838	39.573	55.643	1.00	16.30
C										
ATOM	2680	N	ILE	A	51	54.207	36.450	56.161	1.00	17.81
N										
ATOM	2681	CA	ILE	A	51	53.243	35.453	56.615	1.00	17.81
C										
ATOM	2682	C	ILE	A	51	52.194	36.105	57.517	1.00	17.81
C										
ATOM	2683	O	ILE	A	51	52.533	36.806	58.485	1.00	17.81
O										
ATOM	2684	CB	ILE	A	51	53.947	34.271	57.306	1.00	17.81
C										
ATOM	2685	CG1	ILE	A	51	52.946	33.157	57.609	1.00	17.81
C										
ATOM	2686	CG2	ILE	A	51	54.699	34.699	58.561	1.00	17.81
C										
ATOM	2687	CD1	ILE	A	51	53.584	31.818	57.800	1.00	17.81
C										
ATOM	2688	N	PRO	A	52	50.907	35.931	57.191	1.00	20.70
N										
ATOM	2689	CA	PRO	A	52	49.813	36.430	58.039	1.00	20.70
C										
ATOM	2690	C	PRO	A	52	49.670	35.759	59.400	1.00	20.70
C										
ATOM	2691	O	PRO	A	52	50.491	34.928	59.792	1.00	20.70
O										
ATOM	2692	CB	PRO	A	52	48.580	36.157	57.171	1.00	20.70
C										
ATOM	2693	CG	PRO	A	52	49.073	36.332	55.792	1.00	20.70

C										
ATOM	2694	CD	PRO	A	52	50.476	35.769	55.795	1.00	20.70
C										
ATOM	2695	N	PHE	A	53	48.605	36.133	60.122	1.00	22.17
N										
ATOM	2696	CA	PHE	A	53	48.444	35.763	61.529	1.00	22.17
C										
ATOM	2697	C	PHE	A	53	48.384	34.254	61.724	1.00	22.17
C										
ATOM	2698	O	PHE	A	53	49.020	33.712	62.632	1.00	22.17
O										
ATOM	2699	CB	PHE	A	53	47.177	36.406	62.094	1.00	22.17
C										
ATOM	2700	CG	PHE	A	53	46.994	37.828	61.691	1.00	22.17
C										
ATOM	2701	CD1	PHE	A	53	47.918	38.782	62.053	1.00	22.17
C										
ATOM	2702	CD2	PHE	A	53	45.900	38.214	60.948	1.00	22.17
C										
ATOM	2703	CE1	PHE	A	53	47.760	40.089	61.682	1.00	22.17
C										
ATOM	2704	CE2	PHE	A	53	45.738	39.524	60.577	1.00	22.17
C										
ATOM	2705	CZ	PHE	A	53	46.667	40.462	60.945	1.00	22.17
C										
ATOM	2706	N	ASP	A	54	47.603	33.563	60.903	1.00	30.50
N										
ATOM	2707	CA	ASP	A	54	47.511	32.116	61.019	1.00	30.50
C										
ATOM	2708	C	ASP	A	54	48.454	31.395	60.070	1.00	30.50
C										
ATOM	2709	O	ASP	A	54	48.843	30.257	60.346	1.00	30.50
O										
ATOM	2710	CB	ASP	A	54	46.071	31.654	60.777	1.00	30.50
C										
ATOM	2711	CG	ASP	A	54	45.601	31.929	59.370	1.00	30.50
C										
ATOM	2712	OD1	ASP	A	54	44.773	31.151	58.859	1.00	30.50
O										
ATOM	2713	OD2	ASP	A	54	46.052	32.926	58.773	1.00	30.50
O										
ATOM	2714	N	GLY	A	55	48.839	32.030	58.970	1.00	31.94
N										
ATOM	2715	CA	GLY	A	55	49.796	31.445	58.057	1.00	31.94
C										
ATOM	2716	C	GLY	A	55	49.211	30.606	56.948	1.00	31.94
C										
ATOM	2717	O	GLY	A	55	49.948	29.838	56.324	1.00	31.94
O										
ATOM	2718	N	AARG	A	56	47.910	30.723	56.680	0.50	42.12

N										
ATOM	2719	CA	AARG	A	56	47.298	29.923	55.625	0.50	42.12
C										
ATOM	2720	C	AARG	A	56	47.715	30.411	54.243	0.50	42.12
C										
ATOM	2721	O	AARG	A	56	47.947	29.603	53.339	0.50	42.12
O										
ATOM	2722	CB	AARG	A	56	45.779	29.946	55.776	0.50	42.12
C										
ATOM	2723	CG	AARG	A	56	45.056	28.947	54.902	0.50	42.12
C										
ATOM	2724	CD	AARG	A	56	43.561	28.967	55.166	0.50	42.12
C										
ATOM	2725	NE	AARG	A	56	42.803	28.482	54.018	0.50	42.12
N										
ATOM	2726	CZ	AARG	A	56	41.477	28.496	53.938	0.50	42.12
C										
ATOM	2727	NH1AARG	A	56	40.755	28.971	54.943	0.50	42.12	
N										
ATOM	2728	NH2AARG	A	56	40.874	28.035	52.853	0.50	42.12	
N										
ATOM	2729	N	BARG	A	56	48.010	30.723	56.680	0.50	42.12
N										
ATOM	2730	CA	BARG	A	56	47.398	29.923	55.625	0.50	42.12
C										
ATOM	2731	C	BARG	A	56	47.815	30.411	54.243	0.50	42.12
C										
ATOM	2732	O	BARG	A	56	48.047	29.603	53.339	0.50	42.12
O										
ATOM	2733	CB	BARG	A	56	45.879	29.946	55.776	0.50	42.12
C										
ATOM	2734	CG	BARG	A	56	45.376	29.330	57.061	0.50	42.12
C										
ATOM	2735	CD	BARG	A	56	45.660	27.839	57.103	0.50	42.12
C										
ATOM	2736	NE	BARG	A	56	45.159	27.228	58.329	0.50	42.12
N										
ATOM	2737	CZ	BARG	A	56	45.466	25.999	58.732	0.50	42.12
C										
ATOM	2738	NH1BARG	A	56	46.275	25.243	58.003	0.50	42.12	
N										
ATOM	2739	NH2BARG	A	56	44.963	25.528	59.862	0.50	42.12	
N										
ATOM	2740	N	ASN	A	57	47.806	31.722	54.057	1.00	33.59
N										
ATOM	2741	CA	ASN	A	57	48.312	32.322	52.834	1.00	33.59
C										
ATOM	2742	C	ASN	A	57	49.702	32.885	53.106	1.00	33.59
C										
ATOM	2743	O	ASN	A	57	50.013	33.266	54.233	1.00	33.59

O										
ATOM	2744	CB	ASN	A	57	47.379	33.430	52.335	1.00	33.59
C										
ATOM	2745	CG	ASN	A	57	45.970	32.932	52.073	1.00	33.59
C										
ATOM	2746	OD1	ASN	A	57	45.694	32.346	51.033	1.00	33.59
O										
ATOM	2747	ND2	ASN	A	57	45.077	33.161	53.022	1.00	33.59
N										
ATOM	2748	N	LYS	A	58	50.548	32.901	52.080	1.00	26.66
N										
ATOM	2749	CA	LYS	A	58	51.920	33.383	52.208	1.00	26.66
C										
ATOM	2750	C	LYS	A	58	52.271	34.193	50.972	1.00	26.66
C										
ATOM	2751	O	LYS	A	58	51.860	33.834	49.868	1.00	26.66
O										
ATOM	2752	CB	LYS	A	58	52.906	32.218	52.363	1.00	26.66
C										
ATOM	2753	CG	LYS	A	58	52.614	31.320	53.542	1.00	26.66
C										
ATOM	2754	CD	LYS	A	58	53.387	30.023	53.466	1.00	26.66
C										
ATOM	2755	CE	LYS	A	58	53.230	29.220	54.741	1.00	26.66
C										
ATOM	2756	NZ	LYS	A	58	51.976	28.426	54.745	1.00	26.66
N										
ATOM	2757	N	TYR	A	59	53.035	35.276	51.138	1.00	22.55
N										
ATOM	2758	CA	TYR	A	59	53.344	36.119	49.987	1.00	22.55
C										
ATOM	2759	C	TYR	A	59	54.845	36.361	49.878	1.00	22.55
C										
ATOM	2760	O	TYR	A	59	55.517	36.590	50.885	1.00	22.55
O										
ATOM	2761	CB	TYR	A	59	52.578	37.443	50.061	1.00	22.55
C										
ATOM	2762	CG	TYR	A	59	51.077	37.248	50.045	1.00	22.55
C										
ATOM	2763	CD1	TYR	A	59	50.319	37.443	51.186	1.00	22.55
C										
ATOM	2764	CD2	TYR	A	59	50.426	36.843	48.889	1.00	22.55
C										
ATOM	2765	CE1	TYR	A	59	48.951	37.255	51.175	1.00	22.55
C										
ATOM	2766	CE2	TYR	A	59	49.060	36.651	48.870	1.00	22.55
C										
ATOM	2767	CZ	TYR	A	59	48.328	36.858	50.014	1.00	22.55
C										
ATOM	2768	OH	TYR	A	59	46.966	36.668	50.000	1.00	22.55

O										
ATOM	2769	N	TYR	A	60	55.362	36.307	48.645	1.00	23.35
N										
ATOM	2770	CA	TYR	A	60	56.793	36.349	48.339	1.00	23.35
C										
ATOM	2771	C	TYR	A	60	57.074	37.419	47.285	1.00	23.35
C										
ATOM	2772	O	TYR	A	60	56.160	38.066	46.770	1.00	23.35
O										
ATOM	2773	CB	TYR	A	60	57.297	34.991	47.841	1.00	23.35
C										
ATOM	2774	CG	TYR	A	60	57.047	33.836	48.776	1.00	23.35
C										
ATOM	2775	CD1	TYR	A	60	57.978	33.489	49.738	1.00	23.35
C										
ATOM	2776	CD2	TYR	A	60	55.893	33.074	48.677	1.00	23.35
C										
ATOM	2777	CE1	TYR	A	60	57.765	32.436	50.584	1.00	23.35
C										
ATOM	2778	CE2	TYR	A	60	55.671	32.016	49.519	1.00	23.35
C										
ATOM	2779	CZ	TYR	A	60	56.609	31.696	50.469	1.00	23.35
C										
ATOM	2780	OH	TYR	A	60	56.391	30.640	51.314	1.00	23.35
O										
ATOM	2781	N	ALA	A	61	58.355	37.581	46.927	1.00	28.48
N										
ATOM	2782	CA	ALA	A	61	58.798	38.687	46.081	1.00	28.48
C										
ATOM	2783	C	ALA	A	61	59.374	38.264	44.724	1.00	28.48
C										
ATOM	2784	O	ALA	A	61	60.317	38.899	44.244	1.00	28.48
O										
ATOM	2785	CB	ALA	A	61	59.828	39.536	46.822	1.00	28.48
C										
ATOM	2786	N	ASP	A	62	58.856	37.204	44.109	1.00	34.97
N										
ATOM	2787	CA	ASP	A	62	59.034	36.937	42.677	1.00	34.97
C										
ATOM	2788	C	ASP	A	62	60.432	36.503	42.261	1.00	34.97
C										
ATOM	2789	O	ASP	A	62	60.627	36.061	41.127	1.00	34.97
O										
ATOM	2790	CB	ASP	A	62	58.674	38.172	41.848	1.00	34.97
C										
ATOM	2791	CG	ASP	A	62	57.242	38.181	41.414	1.00	34.97
C										
ATOM	2792	OD1	ASP	A	62	56.522	37.216	41.734	1.00	34.97
O										
ATOM	2793	OD2	ASP	A	62	56.836	39.155	40.754	1.00	34.97

O										
ATOM	2794	N	SER	A	63	61.405	36.602	43.151	1.00	33.18
N										
ATOM	2795	CA	SER	A	63	62.747	36.132	42.868	1.00	33.18
C										
ATOM	2796	C	SER	A	63	63.236	35.145	43.906	1.00	33.18
C										
ATOM	2797	O	SER	A	63	64.240	34.466	43.670	1.00	33.18
O										
ATOM	2798	CB	SER	A	63	63.728	37.310	42.773	1.00	33.18
C										
ATOM	2799	OG	SER	A	63	64.475	37.450	43.964	1.00	33.18
O										
ATOM	2800	N	LEU	A	64	62.559	35.051	45.043	1.00	31.30
N										
ATOM	2801	CA	LEU	A	64	62.778	33.998	46.014	1.00	31.30
C										
ATOM	2802	C	LEU	A	64	61.642	32.993	46.027	1.00	31.30
C										
ATOM	2803	O	LEU	A	64	61.675	32.063	46.835	1.00	31.30
O										
ATOM	2804	CB	LEU	A	64	62.888	34.553	47.430	1.00	31.30
C										
ATOM	2805	CG	LEU	A	64	61.689	35.433	47.750	1.00	31.30
C										
ATOM	2806	CD1	LEU	A	64	61.552	35.411	49.197	1.00	31.30
C										
ATOM	2807	CD2	LEU	A	64	61.941	36.852	47.343	1.00	31.30
C										
ATOM	2808	N	THR	A	65	60.622	33.180	45.184	1.00	33.19
N										
ATOM	2809	CA	THR	A	65	59.404	32.380	45.288	1.00	33.19
C										
ATOM	2810	C	THR	A	65	59.697	30.891	45.175	1.00	33.19
C										
ATOM	2811	O	THR	A	65	59.054	30.073	45.840	1.00	33.19
O										
ATOM	2812	CB	THR	A	65	58.402	32.803	44.215	1.00	33.19
C										
ATOM	2813	OG1	THR	A	65	58.176	34.212	44.298	1.00	33.19
O										
ATOM	2814	CG2	THR	A	65	57.083	32.082	44.406	1.00	33.19
C										
ATOM	2815	N	GLY	A	66	60.667	30.519	44.343	1.00	33.63
N										
ATOM	2816	CA	GLY	A	66	60.953	29.107	44.159	1.00	33.63
C										
ATOM	2817	C	GLY	A	66	61.652	28.479	45.350	1.00	33.63
C										
ATOM	2818	O	GLY	A	66	61.260	27.408	45.819	1.00	33.63

O										
ATOM	2819	N	ARG	A	67	62.688	29.137	45.863	1.00	35.90
N										
ATOM	2820	CA	ARG	A	67	63.618	28.495	46.780	1.00	35.90
C										
ATOM	2821	C	ARG	A	67	63.397	28.845	48.245	1.00	35.90
C										
ATOM	2822	O	ARG	A	67	63.998	28.199	49.109	1.00	35.90
O										
ATOM	2823	CB	ARG	A	67	65.057	28.851	46.392	1.00	35.90
C										
ATOM	2824	CG	ARG	A	67	65.468	28.329	45.022	1.00	35.90
C										
ATOM	2825	CD	ARG	A	67	66.928	28.603	44.740	1.00	35.90
C										
ATOM	2826	NE	ARG	A	67	67.209	30.031	44.645	1.00	35.90
N										
ATOM	2827	CZ	ARG	A	67	68.129	30.657	45.368	1.00	35.90
C										
ATOM	2828	NH1	ARG	A	67	68.858	29.984	46.243	1.00	35.90
N										
ATOM	2829	NH2	ARG	A	67	68.320	31.958	45.215	1.00	35.90
N										
ATOM	2830	N	PHE	A	68	62.568	29.839	48.551	1.00	30.72
N										
ATOM	2831	CA	PHE	A	68	62.376	30.314	49.915	1.00	30.72
C										
ATOM	2832	C	PHE	A	68	60.942	30.039	50.344	1.00	30.72
C										
ATOM	2833	O	PHE	A	68	60.007	30.307	49.586	1.00	30.72
O										
ATOM	2834	CB	PHE	A	68	62.678	31.815	50.026	1.00	30.72
C										
ATOM	2835	CG	PHE	A	68	64.135	32.169	49.866	1.00	30.72
C										
ATOM	2836	CD1	PHE	A	68	64.835	32.761	50.898	1.00	30.72
C										
ATOM	2837	CD2	PHE	A	68	64.801	31.927	48.682	1.00	30.72
C										
ATOM	2838	CE1	PHE	A	68	66.165	33.101	50.747	1.00	30.72
C										
ATOM	2839	CE2	PHE	A	68	66.130	32.259	48.535	1.00	30.72
C										
ATOM	2840	CZ	PHE	A	68	66.811	32.843	49.569	1.00	30.72
C										
ATOM	2841	N	THR	A	69	60.770	29.507	51.550	1.00	26.02
N										
ATOM	2842	CA	THR	A	69	59.444	29.300	52.118	1.00	26.02
C										
ATOM	2843	C	THR	A	69	59.412	29.794	53.560	1.00	26.02

C										
ATOM	2844	O	THR	A	69	60.316	29.509	54.346	1.00	26.02
O										
ATOM	2845	CB	THR	A	69	59.021	27.818	52.041	1.00	26.02
C										
ATOM	2846	OG1	THR	A	69	57.827	27.612	52.804	1.00	26.02
O										
ATOM	2847	CG2	THR	A	69	60.108	26.916	52.564	1.00	26.02
C										
ATOM	2848	N	ILE	A	70	58.362	30.529	53.907	1.00	20.50
N										
ATOM	2849	CA	ILE	A	70	58.229	31.147	55.221	1.00	20.50
C										
ATOM	2850	C	ILE	A	70	57.194	30.370	56.025	1.00	20.50
C										
ATOM	2851	O	ILE	A	70	56.222	29.857	55.463	1.00	20.50
O										
ATOM	2852	CB	ILE	A	70	57.851	32.637	55.085	1.00	20.50
C										
ATOM	2853	CG1	ILE	A	70	57.895	33.348	56.438	1.00	20.50
C										
ATOM	2854	CG2	ILE	A	70	56.499	32.803	54.399	1.00	20.50
C										
ATOM	2855	CD1	ILE	A	70	57.869	34.858	56.325	1.00	20.50
C										
ATOM	2856	N	SER	A	71	57.412	30.263	57.335	1.00	21.23
N										
ATOM	2857	CA	SER	A	71	56.469	29.562	58.200	1.00	21.23
C										
ATOM	2858	C	SER	A	71	56.519	30.166	59.597	1.00	21.23
C										
ATOM	2859	O	SER	A	71	57.419	30.934	59.924	1.00	21.23
O										
ATOM	2860	CB	SER	A	71	56.761	28.057	58.239	1.00	21.23
C										
ATOM	2861	OG	SER	A	71	57.693	27.745	59.250	1.00	21.23
O										
ATOM	2862	N	ARG	A	72	55.521	29.842	60.418	1.00	21.11
N										
ATOM	2863	CA	ARG	A	72	55.459	30.375	61.772	1.00	21.11
C										
ATOM	2864	C	ARG	A	72	54.854	29.347	62.715	1.00	21.11
C										
ATOM	2865	O	ARG	A	72	54.071	28.491	62.303	1.00	21.11
O										
ATOM	2866	CB	ARG	A	72	54.639	31.680	61.843	1.00	21.11
C										
ATOM	2867	CG	ARG	A	72	53.148	31.521	61.551	1.00	21.11
C										
ATOM	2868	CD	ARG	A	72	52.428	32.863	61.506	1.00	21.11

C										
ATOM	2869	NE	ARG	A	72	52.422	33.521	62.806	1.00	21.11
N										
ATOM	2870	CZ	ARG	A	72	52.230	34.823	62.990	1.00	21.11
C										
ATOM	2871	NH1	ARG	A	72	52.246	35.324	64.210	1.00	21.11
N										
ATOM	2872	NH2	ARG	A	72	52.027	35.621	61.956	1.00	21.11
N										
ATOM	2873	N	ASP	A	73	55.229	29.447	63.987	1.00	26.52
N										
ATOM	2874	CA	ASP	A	73	54.645	28.659	65.066	1.00	26.52
C										
ATOM	2875	C	ASP	A	73	54.186	29.630	66.144	1.00	26.52
C										
ATOM	2876	O	ASP	A	73	55.013	30.236	66.834	1.00	26.52
O										
ATOM	2877	CB	ASP	A	73	55.648	27.648	65.623	1.00	26.52
C										
ATOM	2878	CG	ASP	A	73	54.992	26.584	66.484	1.00	26.52
C										
ATOM	2879	OD1	ASP	A	73	55.559	25.480	66.590	1.00	26.52
O										
ATOM	2880	OD2	ASP	A	73	53.916	26.846	67.055	1.00	26.52
O										
ATOM	2881	N	ASN	A	74	52.868	29.784	66.279	1.00	26.33
N										
ATOM	2882	CA	ASN	A	74	52.301	30.699	67.259	1.00	26.33
C										
ATOM	2883	C	ASN	A	74	52.351	30.147	68.676	1.00	26.33
C										
ATOM	2884	O	ASN	A	74	52.301	30.927	69.631	1.00	26.33
O										
ATOM	2885	CB	ASN	A	74	50.859	31.040	66.881	1.00	26.33
C										
ATOM	2886	CG	ASN	A	74	50.774	31.895	65.635	1.00	26.33
C										
ATOM	2887	OD1	ASN	A	74	51.754	32.514	65.236	1.00	26.33
O										
ATOM	2888	ND2	ASN	A	74	49.608	31.929	65.012	1.00	26.33
N										
ATOM	2889	N	SER	A	75	52.457	28.828	68.834	1.00	28.76
N										
ATOM	2890	CA	SER	A	75	52.576	28.255	70.170	1.00	28.76
C										
ATOM	2891	C	SER	A	75	53.936	28.561	70.780	1.00	28.76
C										
ATOM	2892	O	SER	A	75	54.039	28.813	71.984	1.00	28.76
O										
ATOM	2893	CB	SER	A	75	52.328	26.749	70.120	1.00	28.76

C										
ATOM	2894	OG	SER	A	75	53.412	26.068	69.522	1.00	28.76
O										
ATOM	2895	N	LYS	A	76	54.989	28.552	69.964	1.00	29.03
N										
ATOM	2896	CA	LYS	A	76	56.337	28.865	70.415	1.00	29.03
C										
ATOM	2897	C	LYS	A	76	56.731	30.313	70.161	1.00	29.03
C										
ATOM	2898	O	LYS	A	76	57.823	30.719	70.566	1.00	29.03
O										
ATOM	2899	CB	LYS	A	76	57.346	27.940	69.733	1.00	29.03
C										
ATOM	2900	CG	LYS	A	76	56.870	26.513	69.593	1.00	29.03
C										
ATOM	2901	CD	LYS	A	76	57.989	25.607	69.136	1.00	29.03
C										
ATOM	2902	CE	LYS	A	76	57.607	24.153	69.307	1.00	29.03
C										
ATOM	2903	NZ	LYS	A	76	56.580	23.727	68.319	1.00	29.03
N										
ATOM	2904	N	ASN	A	77	55.868	31.096	69.510	1.00	27.35
N										
ATOM	2905	CA	ASN	A	77	56.158	32.486	69.155	1.00	27.35
C										
ATOM	2906	C	ASN	A	77	57.416	32.597	68.293	1.00	27.35
C										
ATOM	2907	O	ASN	A	77	58.286	33.429	68.539	1.00	27.35
O										
ATOM	2908	CB	ASN	A	77	56.284	33.363	70.403	1.00	27.35
C										
ATOM	2909	CG	ASN	A	77	54.999	33.438	71.196	1.00	27.35
C										
ATOM	2910	OD1	ASN	A	77	53.939	33.046	70.720	1.00	27.35
O										
ATOM	2911	ND2	ASN	A	77	55.090	33.948	72.412	1.00	27.35
N										
ATOM	2912	N	THR	A	78	57.507	31.756	67.265	1.00	24.95
N										
ATOM	2913	CA	THR	A	78	58.717	31.698	66.454	1.00	24.95
C										
ATOM	2914	C	THR	A	78	58.391	31.800	64.971	1.00	24.95
C										
ATOM	2915	O	THR	A	78	57.455	31.170	64.483	1.00	24.95
O										
ATOM	2916	CB	THR	A	78	59.501	30.408	66.732	1.00	24.95
C										
ATOM	2917	OG1	THR	A	78	59.799	30.334	68.128	1.00	24.95
O										
ATOM	2918	CG2	THR	A	78	60.804	30.396	65.961	1.00	24.95

C										
ATOM	2919	N	LEU	A	79	59.186	32.591	64.258	1.00	21.29
N										
ATOM	2920	CA	LEU	A	79	59.093	32.761	62.818	1.00	21.29
C										
ATOM	2921	C	LEU	A	79	60.247	32.016	62.159	1.00	21.29
C										
ATOM	2922	O	LEU	A	79	61.359	32.017	62.680	1.00	21.29
O										
ATOM	2923	CB	LEU	A	79	59.144	34.250	62.467	1.00	21.29
C										
ATOM	2924	CG	LEU	A	79	59.212	34.684	61.009	1.00	21.29
C										
ATOM	2925	CD1	LEU	A	79	57.894	34.414	60.328	1.00	21.29
C										
ATOM	2926	CD2	LEU	A	79	59.577	36.157	60.934	1.00	21.29
C										
ATOM	2927	N	TYR	A	80	59.988	31.379	61.018	1.00	23.26
N										
ATOM	2928	CA	TYR	A	80	60.979	30.579	60.312	1.00	23.26
C										
ATOM	2929	C	TYR	A	80	61.058	30.988	58.852	1.00	23.26
C										
ATOM	2930	O	TYR	A	80	60.035	31.258	58.218	1.00	23.26
O										
ATOM	2931	CB	TYR	A	80	60.646	29.082	60.359	1.00	23.26
C										
ATOM	2932	CG	TYR	A	80	60.483	28.499	61.735	1.00	23.26
C										
ATOM	2933	CD1	TYR	A	80	61.583	28.242	62.532	1.00	23.26
C										
ATOM	2934	CD2	TYR	A	80	59.227	28.180	62.228	1.00	23.26
C										
ATOM	2935	CE1	TYR	A	80	61.439	27.697	63.784	1.00	23.26
C										
ATOM	2936	CE2	TYR	A	80	59.075	27.638	63.481	1.00	23.26
C										
ATOM	2937	CZ	TYR	A	80	60.184	27.400	64.254	1.00	23.26
C										
ATOM	2938	OH	TYR	A	80	60.036	26.857	65.507	1.00	23.26
O										
ATOM	2939	N	LEU	A	81	62.275	30.982	58.312	1.00	24.24
N										
ATOM	2940	CA	LEU	A	81	62.502	31.085	56.878	1.00	24.24
C										
ATOM	2941	C	LEU	A	81	63.383	29.918	56.456	1.00	24.24
C										
ATOM	2942	O	LEU	A	81	64.447	29.702	57.037	1.00	24.24
O										
ATOM	2943	CB	LEU	A	81	63.157	32.422	56.504	1.00	24.24

C										
ATOM	2944	CG	LEU	A	81	63.353	32.721	55.016	1.00	24.24
C										
ATOM	2945	CD1	LEU	A	81	62.025	32.823	54.291	1.00	24.24
C										
ATOM	2946	CD2	LEU	A	81	64.162	33.995	54.825	1.00	24.24
C										
ATOM	2947	N	GLN	A	82	62.933	29.165	55.461	1.00	32.03
N										
ATOM	2948	CA	GLN	A	82	63.648	28.011	54.933	1.00	32.03
C										
ATOM	2949	C	GLN	A	82	64.130	28.344	53.531	1.00	32.03
C										
ATOM	2950	O	GLN	A	82	63.324	28.707	52.669	1.00	32.03
O										
ATOM	2951	CB	GLN	A	82	62.738	26.780	54.913	1.00	32.03
C										
ATOM	2952	CG	GLN	A	82	63.352	25.535	54.294	1.00	32.03
C										
ATOM	2953	CD	GLN	A	82	64.504	24.984	55.095	1.00	32.03
C										
ATOM	2954	OE1	GLN	A	82	64.454	24.933	56.320	1.00	32.03
O										
ATOM	2955	NE2	GLN	A	82	65.557	24.570	54.404	1.00	32.03
N										
ATOM	2956	N	MET	A	83	65.434	28.227	53.301	1.00	35.31
N										
ATOM	2957	CA	MET	A	83	66.017	28.469	51.992	1.00	35.31
C										
ATOM	2958	C	MET	A	83	66.651	27.193	51.466	1.00	35.31
C										
ATOM	2959	O	MET	A	83	67.370	26.505	52.196	1.00	35.31
O										
ATOM	2960	CB	MET	A	83	67.065	29.578	52.021	1.00	35.31
C										
ATOM	2961	CG	MET	A	83	66.821	30.705	52.988	1.00	35.31
C										
ATOM	2962	SD	MET	A	83	68.392	31.477	53.394	1.00	35.31
S										
ATOM	2963	CE	MET	A	83	67.878	32.558	54.684	1.00	35.31
C										
ATOM	2964	N	ASN	A	84	66.402	26.906	50.195	1.00	41.01
N										
ATOM	2965	CA	ASN	A	84	66.873	25.697	49.537	1.00	41.01
C										
ATOM	2966	C	ASN	A	84	67.929	26.042	48.498	1.00	41.01
C										
ATOM	2967	O	ASN	A	84	67.713	26.926	47.663	1.00	41.01
O										
ATOM	2968	CB	ASN	A	84	65.710	24.968	48.869	1.00	41.01

C										
ATOM	2969	CG	ASN	A	84	64.682	24.491	49.860	1.00	41.01
C										
ATOM	2970	OD1	ASN	A	84	65.014	24.112	50.980	1.00	41.01
O										
ATOM	2971	ND2	ASN	A	84	63.420	24.518	49.459	1.00	41.01
N										
ATOM	2972	N	SER	A	85	69.063	25.338	48.550	1.00	43.61
N										
ATOM	2973	CA	SER	A	85	70.098	25.389	47.516	1.00	43.61
C										
ATOM	2974	C	SER	A	85	70.614	26.818	47.317	1.00	43.61
C										
ATOM	2975	O	SER	A	85	70.392	27.460	46.291	1.00	43.61
O										
ATOM	2976	CB	SER	A	85	69.582	24.798	46.199	1.00	43.61
C										
ATOM	2977	OG	SER	A	85	68.698	25.693	45.553	1.00	43.61
O										
ATOM	2978	N	LEU	A	86	71.294	27.304	48.350	1.00	42.85
N										
ATOM	2979	CA	LEU	A	86	71.771	28.679	48.349	1.00	42.85
C										
ATOM	2980	C	LEU	A	86	72.818	28.905	47.265	1.00	42.85
C										
ATOM	2981	O	LEU	A	86	73.733	28.099	47.081	1.00	42.85
O										
ATOM	2982	CB	LEU	A	86	72.343	29.029	49.721	1.00	42.85
C										
ATOM	2983	CG	LEU	A	86	71.258	29.238	50.780	1.00	42.85
C										
ATOM	2984	CD1	LEU	A	86	71.842	29.741	52.080	1.00	42.85
C										
ATOM	2985	CD2	LEU	A	86	70.221	30.208	50.262	1.00	42.85
C										
ATOM	2986	N	ARG	A	87	72.675	30.017	46.545	1.00	45.02
N										
ATOM	2987	CA	ARG	A	87	73.621	30.441	45.526	1.00	45.02
C										
ATOM	2988	C	ARG	A	87	74.525	31.543	46.073	1.00	45.02
C										
ATOM	2989	O	ARG	A	87	74.364	32.017	47.198	1.00	45.02
O										
ATOM	2990	CB	ARG	A	87	72.889	30.930	44.278	1.00	45.02
C										
ATOM	2991	CG	ARG	A	87	71.642	30.159	43.922	1.00	45.02
C										
ATOM	2992	CD	ARG	A	87	70.999	30.753	42.684	1.00	45.02
C										
ATOM	2993	NE	ARG	A	87	69.720	30.131	42.360	1.00	45.02

N										
ATOM	2994	CZ	ARG	A	87	69.591	28.940	41.784	1.00	45.02
C										
ATOM	2995	NH1	ARG	A	87	70.667	28.232	41.470	1.00	45.02
N										
ATOM	2996	NH2	ARG	A	87	68.385	28.455	41.523	1.00	45.02
N										
ATOM	2997	N	ALA	A	88	75.478	31.974	45.243	1.00	44.00
N										
ATOM	2998	CA	ALA	A	88	76.434	32.993	45.667	1.00	44.00
C										
ATOM	2999	C	ALA	A	88	75.752	34.331	45.927	1.00	44.00
C										
ATOM	3000	O	ALA	A	88	76.131	35.058	46.851	1.00	44.00
O										
ATOM	3001	CB	ALA	A	88	77.534	33.149	44.619	1.00	44.00
C										
ATOM	3002	N	GLU	A	89	74.749	34.674	45.124	1.00	44.35
N										
ATOM	3003	CA	GLU	A	89	74.059	35.948	45.274	1.00	44.35
C										
ATOM	3004	C	GLU	A	89	73.097	35.975	46.453	1.00	44.35
C										
ATOM	3005	O	GLU	A	89	72.541	37.036	46.748	1.00	44.35
O										
ATOM	3006	CB	GLU	A	89	73.294	36.292	43.995	1.00	44.35
C										
ATOM	3007	CG	GLU	A	89	74.120	36.187	42.729	1.00	44.35
C										
ATOM	3008	CD	GLU	A	89	75.528	36.712	42.908	1.00	44.35
C										
ATOM	3009	OE1	GLU	A	89	75.683	37.907	43.231	1.00	44.35
O										
ATOM	3010	OE2	GLU	A	89	76.481	35.927	42.729	1.00	44.35
O										
ATOM	3011	N	ASP	A	90	72.876	34.844	47.120	1.00	38.14
N										
ATOM	3012	CA	ASP	A	90	71.997	34.808	48.278	1.00	38.14
C										
ATOM	3013	C	ASP	A	90	72.659	35.351	49.539	1.00	38.14
C										
ATOM	3014	O	ASP	A	90	71.979	35.492	50.559	1.00	38.14
O										
ATOM	3015	CB	ASP	A	90	71.509	33.375	48.514	1.00	38.14
C										
ATOM	3016	CG	ASP	A	90	70.645	32.862	47.380	1.00	38.14
C										
ATOM	3017	OD1	ASP	A	90	70.236	33.669	46.528	1.00	38.14
O										
ATOM	3018	OD2	ASP	A	90	70.369	31.647	47.339	1.00	38.14

O										
ATOM	3019	N	THR	A	91	73.953	35.658	49.490	1.00	32.30
N										
ATOM	3020	CA	THR	A	91	74.661	36.231	50.630	1.00	32.30
C										
ATOM	3021	C	THR	A	91	74.067	37.581	51.015	1.00	32.30
C										
ATOM	3022	O	THR	A	91	74.021	38.497	50.191	1.00	32.30
O										
ATOM	3023	CB	THR	A	91	76.140	36.396	50.284	1.00	32.30
C										
ATOM	3024	OG1	THR	A	91	76.726	35.109	50.052	1.00	32.30
O										
ATOM	3025	CG2	THR	A	91	76.875	37.093	51.405	1.00	32.30
C										
ATOM	3026	N	ALA	A	92	73.644	37.714	52.271	1.00	23.56
N										
ATOM	3027	CA	ALA	A	92	72.968	38.932	52.710	1.00	23.56
C										
ATOM	3028	C	ALA	A	92	72.791	38.910	54.220	1.00	23.56
C										
ATOM	3029	O	ALA	A	92	72.874	37.859	54.856	1.00	23.56
O										
ATOM	3030	CB	ALA	A	92	71.604	39.094	52.030	1.00	23.56
C										
ATOM	3031	N	VAL	A	93	72.521	40.081	54.780	1.00	20.17
N										
ATOM	3032	CA	VAL	A	93	72.068	40.206	56.158	1.00	20.17
C										
ATOM	3033	C	VAL	A	93	70.546	40.203	56.153	1.00	20.17
C										
ATOM	3034	O	VAL	A	93	69.922	40.973	55.420	1.00	20.17
O										
ATOM	3035	CB	VAL	A	93	72.610	41.491	56.802	1.00	20.17
C										
ATOM	3036	CG1	VAL	A	93	72.168	41.591	58.242	1.00	20.17
C										
ATOM	3037	CG2	VAL	A	93	74.122	41.532	56.702	1.00	20.17
C										
ATOM	3038	N	TYR	A	94	69.948	39.341	56.966	1.00	19.75
N										
ATOM	3039	CA	TYR	A	94	68.501	39.180	57.028	1.00	19.75
C										
ATOM	3040	C	TYR	A	94	67.974	39.786	58.321	1.00	19.75
C										
ATOM	3041	O	TYR	A	94	68.486	39.492	59.403	1.00	19.75
O										
ATOM	3042	CB	TYR	A	94	68.113	37.702	56.932	1.00	19.75
C										
ATOM	3043	CG	TYR	A	94	68.269	37.127	55.547	1.00	19.75

C										
ATOM	3044	CD1	TYR	A	94	67.171	36.924	54.727	1.00	19.75
C										
ATOM	3045	CD2	TYR	A	94	69.519	36.793	55.055	1.00	19.75
C										
ATOM	3046	CE1	TYR	A	94	67.318	36.411	53.461	1.00	19.75
C										
ATOM	3047	CE2	TYR	A	94	69.672	36.280	53.795	1.00	19.75
C										
ATOM	3048	CZ	TYR	A	94	68.571	36.088	53.001	1.00	19.75
C										
ATOM	3049	OH	TYR	A	94	68.727	35.578	51.739	1.00	19.75
O										
ATOM	3050	N	TYR	A	95	66.953	40.628	58.202	1.00	21.79
N										
ATOM	3051	CA	TYR	A	95	66.292	41.281	59.318	1.00	21.79
C										
ATOM	3052	C	TYR	A	95	64.868	40.758	59.459	1.00	21.79
C										
ATOM	3053	O	TYR	A	95	64.164	40.566	58.464	1.00	21.79
O										
ATOM	3054	CB	TYR	A	95	66.223	42.794	59.125	1.00	21.79
C										
ATOM	3055	CG	TYR	A	95	67.539	43.497	58.903	1.00	21.79
C										
ATOM	3056	CD1	TYR	A	95	68.348	43.848	59.969	1.00	21.79
C										
ATOM	3057	CD2	TYR	A	95	67.940	43.859	57.628	1.00	21.79
C										
ATOM	3058	CE1	TYR	A	95	69.540	44.514	59.766	1.00	21.79
C										
ATOM	3059	CE2	TYR	A	95	69.127	44.525	57.417	1.00	21.79
C										
ATOM	3060	CZ	TYR	A	95	69.921	44.847	58.488	1.00	21.79
C										
ATOM	3061	OH	TYR	A	95	71.107	45.511	58.281	1.00	21.79
O										
ATOM	3062	N	CYS	A	96	64.447	40.575	60.703	1.00	21.29
N										
ATOM	3063	CA	CYS	A	96	63.102	40.152	61.067	1.00	21.29
C										
ATOM	3064	C	CYS	A	96	62.245	41.380	61.372	1.00	21.29
C										
ATOM	3065	O	CYS	A	96	62.719	42.325	62.003	1.00	21.29
O										
ATOM	3066	CB	CYS	A	96	63.191	39.230	62.289	1.00	21.29
C										
ATOM	3067	SG	CYS	A	96	61.717	38.366	62.800	1.00	21.29
S										
ATOM	3068	N	ALA	A	97	60.986	41.375	60.928	1.00	17.02

N										
ATOM	3069	CA	ALA	A	97	60.125	42.543	61.085	1.00	17.02
C										
ATOM	3070	C	ALA	A	97	58.677	42.103	61.263	1.00	17.02
C										
ATOM	3071	O	ALA	A	97	58.315	40.973	60.947	1.00	17.02
O										
ATOM	3072	CB	ALA	A	97	60.250	43.487	59.885	1.00	17.02
C										
ATOM	3073	N	SER	A	98	57.841	43.016	61.762	1.00	18.29
N										
ATOM	3074	CA	SER	A	98	56.449	42.698	62.067	1.00	18.29
C										
ATOM	3075	C	SER	A	98	55.534	43.856	61.684	1.00	18.29
C										
ATOM	3076	O	SER	A	98	55.981	44.985	61.493	1.00	18.29
O										
ATOM	3077	CB	SER	A	98	56.268	42.365	63.549	1.00	18.29
C										
ATOM	3078	OG	SER	A	98	56.654	43.450	64.362	1.00	18.29
O										
ATOM	3079	N	SER	A	99	54.240	43.555	61.558	1.00	19.21
N										
ATOM	3080	CA	SER	A	99	53.239	44.576	61.263	1.00	19.21
C										
ATOM	3081	C	SER	A	99	51.890	44.186	61.855	1.00	19.21
C										
ATOM	3082	O	SER	A	99	51.530	43.010	61.905	1.00	19.21
O										
ATOM	3083	CB	SER	A	99	53.091	44.816	59.754	1.00	19.21
C										
ATOM	3084	OG	SER	A	99	52.770	43.626	59.066	1.00	19.21
O										
ATOM	3085	N	SER	A	100	51.133	45.195	62.280	1.00	22.37
N										
ATOM	3086	CA	SER	A	100	49.809	45.001	62.861	1.00	22.37
C										
ATOM	3087	C	SER	A	100	48.737	45.361	61.840	1.00	22.37
C										
ATOM	3088	O	SER	A	100	48.802	46.422	61.218	1.00	22.37
O										
ATOM	3089	CB	SER	A	100	49.639	45.851	64.122	1.00	22.37
C										
ATOM	3090	OG	SER	A	100	48.370	45.635	64.702	1.00	22.37
O										
ATOM	3091	N	GLY	A	101	47.760	44.477	61.668	1.00	22.20
N										
ATOM	3092	CA	GLY	A	101	46.704	44.714	60.697	1.00	22.20
C										
ATOM	3093	C	GLY	A	101	47.177	44.748	59.261	1.00	22.20

C									
ATOM	3094	O	GLY A 101	46.541	45.390	58.422	1.00	22.20	
O									
ATOM	3095	N	PHE A 102	48.284	44.070	58.961	1.00	19.83	
N									
ATOM	3096	CA	PHE A 102	48.964	44.068	57.666	1.00	19.83	
C									
ATOM	3097	C	PHE A 102	49.500	45.435	57.275	1.00	19.83	
C									
ATOM	3098	O	PHE A 102	49.954	45.613	56.145	1.00	19.83	
O									
ATOM	3099	CB	PHE A 102	48.067	43.541	56.539	1.00	19.83	
C									
ATOM	3100	CG	PHE A 102	47.617	42.132	56.732	1.00	19.83	
C									
ATOM	3101	CD1	PHE A 102	48.533	41.119	56.913	1.00	19.83	
C									
ATOM	3102	CD2	PHE A 102	46.276	41.817	56.714	1.00	19.83	
C									
ATOM	3103	CE1	PHE A 102	48.119	39.823	57.087	1.00	19.83	
C									
ATOM	3104	CE2	PHE A 102	45.860	40.520	56.887	1.00	19.83	
C									
ATOM	3105	CZ	PHE A 102	46.782	39.522	57.074	1.00	19.83	
C									
ATOM	3106	N	LEU A 103	49.470	46.406	58.175	1.00	21.21	
N									
ATOM	3107	CA	LEU A 103	49.796	47.782	57.841	1.00	21.21	
C									
ATOM	3108	C	LEU A 103	51.161	48.136	58.403	1.00	21.21	
C									
ATOM	3109	O	LEU A 103	51.436	47.890	59.580	1.00	21.21	
O									
ATOM	3110	CB	LEU A 103	48.736	48.742	58.379	1.00	21.21	
C									
ATOM	3111	CG	LEU A 103	49.050	50.225	58.177	1.00	21.21	
C									
ATOM	3112	CD1	LEU A 103	49.339	50.516	56.716	1.00	21.21	
C									
ATOM	3113	CD2	LEU A 103	47.907	51.071	58.676	1.00	21.21	
C									
ATOM	3114	N	PHE A 104	52.006	48.713	57.560	1.00	24.72	
N									
ATOM	3115	CA	PHE A 104	53.325	49.147	57.992	1.00	24.72	
C									
ATOM	3116	C	PHE A 104	53.191	50.308	58.969	1.00	24.72	
C									
ATOM	3117	O	PHE A 104	52.694	51.378	58.606	1.00	24.72	
O									
ATOM	3118	CB	PHE A 104	54.168	49.556	56.786	1.00	24.72	

C									
ATOM	3119	CG	PHE	A	104	55.439	50.243	57.158	1.00 24.72
C									
ATOM	3120	CD1	PHE	A	104	56.396	49.582	57.894	1.00 24.72
C									
ATOM	3121	CD2	PHE	A	104	55.661	51.558	56.804	1.00 24.72
C									
ATOM	3122	CE1	PHE	A	104	57.549	50.211	58.258	1.00 24.72
C									
ATOM	3123	CE2	PHE	A	104	56.812	52.190	57.167	1.00 24.72
C									
ATOM	3124	CZ	PHE	A	104	57.758	51.520	57.894	1.00 24.72
C									
ATOM	3125	N	HIS	A	105	53.572	50.081	60.217	1.00 34.66
N									
ATOM	3126	CA	HIS	A	105	53.597	51.168	61.187	1.00 34.66
C									
ATOM	3127	C	HIS	A	105	54.741	51.083	62.187	1.00 34.66
C									
ATOM	3128	O	HIS	A	105	54.823	51.952	63.058	1.00 34.66
O									
ATOM	3129	CB	HIS	A	105	52.262	51.215	61.942	1.00 34.66
C									
ATOM	3130	CG	HIS	A	105	52.100	50.110	62.937	1.00 34.66
C									
ATOM	3131	ND1	HIS	A	105	51.854	50.343	64.273	1.00 34.66
N									
ATOM	3132	CD2	HIS	A	105	52.163	48.765	62.795	1.00 34.66
C									
ATOM	3133	CE1	HIS	A	105	51.767	49.189	64.909	1.00 34.66
C									
ATOM	3134	NE2	HIS	A	105	51.950	48.216	64.036	1.00 34.66
N									
ATOM	3135	N	SER	A	106	55.624	50.097	62.099	1.00 41.24
N									
ATOM	3136	CA	SER	A	106	56.598	49.826	63.148	1.00 41.24
C									
ATOM	3137	C	SER	A	106	57.977	50.326	62.744	1.00 41.24
C									
ATOM	3138	O	SER	A	106	58.352	50.257	61.570	1.00 41.24
O									
ATOM	3139	CB	SER	A	106	56.658	48.327	63.446	1.00 41.24
C									
ATOM	3140	OG	SER	A	106	57.305	48.079	64.680	1.00 41.24
O									
ATOM	3141	N	ASP	A	107	58.731	50.846	63.714	1.00 47.45
N									
ATOM	3142	CA	ASP	A	107	60.101	51.211	63.387	1.00 47.45
C									
ATOM	3143	C	ASP	A	107	61.101	50.124	63.763	1.00 47.45

C									
ATOM	3144	O	ASP	A	107	61.552	49.379	62.887	1.00 47.45
O									
ATOM	3145	CB	ASP	A	107	60.458	52.508	64.111	1.00 47.45
C									
ATOM	3146	CG	ASP	A	107	59.889	52.555	65.520	1.00 47.45
C									
ATOM	3147	OD1	ASP	A	107	60.330	51.747	66.366	1.00 47.45
O									
ATOM	3148	OD2	ASP	A	107	58.999	53.392	65.779	1.00 47.45
O									
ATOM	3149	N	PHE	A	108	61.451	50.032	65.051	1.00 44.35
N									
ATOM	3150	CA	PHE	A	108	62.131	48.903	65.688	1.00 44.35
C									
ATOM	3151	C	PHE	A	108	62.959	48.039	64.745	1.00 44.35
C									
ATOM	3152	O	PHE	A	108	62.659	46.855	64.578	1.00 44.35
O									
ATOM	3153	CB	PHE	A	108	61.188	47.994	66.470	1.00 44.35
C									
ATOM	3154	CG	PHE	A	108	61.931	46.966	67.279	1.00 44.35
C									
ATOM	3155	CD1	PHE	A	108	61.793	45.614	67.023	1.00 44.35
C									
ATOM	3156	CD2	PHE	A	108	62.844	47.365	68.234	1.00 44.35
C									
ATOM	3157	CE1	PHE	A	108	62.516	44.685	67.741	1.00 44.35
C									
ATOM	3158	CE2	PHE	A	108	63.562	46.437	68.955	1.00 44.35
C									
ATOM	3159	CZ	PHE	A	108	63.398	45.099	68.707	1.00 44.35
C									
ATOM	3160	N	TRP	A	109	63.959	48.584	64.079	1.00 35.59
N									
ATOM	3161	CA	TRP	A	109	64.770	47.716	63.245	1.00 35.59
C									
ATOM	3162	C	TRP	A	109	65.694	46.884	64.122	1.00 35.59
C									
ATOM	3163	O	TRP	A	109	66.381	47.416	64.997	1.00 35.59
O									
ATOM	3164	CB	TRP	A	109	65.560	48.516	62.222	1.00 35.59
C									
ATOM	3165	CG	TRP	A	109	65.680	47.764	60.963	1.00 35.59
C									
ATOM	3166	CD1	TRP	A	109	66.509	46.716	60.716	1.00 35.59
C									
ATOM	3167	CD2	TRP	A	109	64.910	47.958	59.776	1.00 35.59
C									
ATOM	3168	NE1	TRP	A	109	66.323	46.260	59.438	1.00 35.59

N									
ATOM	3169	CE2	TRP	A	109	65.345	47.006	58.839	1.00 35.59
C									
ATOM	3170	CE3	TRP	A	109	63.906	48.854	59.408	1.00 35.59
C									
ATOM	3171	CZ2	TRP	A	109	64.812	46.923	57.559	1.00 35.59
C									
ATOM	3172	CZ3	TRP	A	109	63.378	48.771	58.139	1.00 35.59
C									
ATOM	3173	CH2	TRP	A	109	63.832	47.813	57.228	1.00 35.59
C									
ATOM	3174	N	GLY	A	110	65.701	45.576	63.890	1.00 36.22
N									
ATOM	3175	CA	GLY	A	110	66.450	44.648	64.709	1.00 36.22
C									
ATOM	3176	C	GLY	A	110	67.921	44.608	64.355	1.00 36.22
C									
ATOM	3177	O	GLY	A	110	68.464	45.505	63.706	1.00 36.22
O									
ATOM	3178	N	GLN	A	111	68.576	43.540	64.800	1.00 37.43
N									
ATOM	3179	CA	GLN	A	111	70.011	43.393	64.604	1.00 37.43
C									
ATOM	3180	C	GLN	A	111	70.360	42.739	63.274	1.00 37.43
C									
ATOM	3181	O	GLN	A	111	71.284	43.189	62.591	1.00 37.43
O									
ATOM	3182	CB	GLN	A	111	70.615	42.582	65.753	1.00 37.43
C									
ATOM	3183	CG	GLN	A	111	70.686	43.334	67.073	1.00 37.43
C									
ATOM	3184	CD	GLN	A	111	71.294	44.714	66.930	1.00 37.43
C									
ATOM	3185	OE1	GLN	A	111	70.772	45.691	67.462	1.00 37.43
O									
ATOM	3186	NE2	GLN	A	111	72.415	44.798	66.226	1.00 37.43
N									
ATOM	3187	N	GLY	A	112	69.647	41.688	62.896	1.00 30.54
N									
ATOM	3188	CA	GLY	A	112	69.927	40.972	61.672	1.00 30.54
C									
ATOM	3189	C	GLY	A	112	70.912	39.836	61.878	1.00 30.54
C									
ATOM	3190	O	GLY	A	112	71.676	39.797	62.839	1.00 30.54
O									
ATOM	3191	N	THR	A	113	70.878	38.886	60.954	1.00 26.36
N									
ATOM	3192	CA	THR	A	113	71.802	37.764	60.965	1.00 26.36
C									
ATOM	3193	C	THR	A	113	72.374	37.581	59.568	1.00 26.36

C									
ATOM	3194	O	THR	A	113	71.663	37.719	58.573	1.00 26.36
O									
ATOM	3195	CB	THR	A	113	71.122	36.470	61.467	1.00 26.36
C									
ATOM	3196	OG1	THR	A	113	72.107	35.450	61.658	1.00 26.36
O									
ATOM	3197	CG2	THR	A	113	70.073	35.968	60.497	1.00 26.36
C									
ATOM	3198	N	LEU	A	114	73.670	37.295	59.497	1.00 27.96
N									
ATOM	3199	CA	LEU	A	114	74.384	37.257	58.230	1.00 27.96
C									
ATOM	3200	C	LEU	A	114	74.391	35.844	57.663	1.00 27.96
C									
ATOM	3201	O	LEU	A	114	74.705	34.887	58.374	1.00 27.96
O									
ATOM	3202	CB	LEU	A	114	75.816	37.763	58.420	1.00 27.96
C									
ATOM	3203	CG	LEU	A	114	76.775	37.641	57.238	1.00 27.96
C									
ATOM	3204	CD1	LEU	A	114	76.331	38.529	56.103	1.00 27.96
C									
ATOM	3205	CD2	LEU	A	114	78.192	37.993	57.674	1.00 27.96
C									
ATOM	3206	N	VAL	A	115	74.050	35.717	56.385	1.00 30.11
N									
ATOM	3207	CA	VAL	A	115	74.110	34.457	55.658	1.00 30.11
C									
ATOM	3208	C	VAL	A	115	75.127	34.629	54.540	1.00 30.11
C									
ATOM	3209	O	VAL	A	115	74.984	35.526	53.700	1.00 30.11
O									
ATOM	3210	CB	VAL	A	115	72.737	34.061	55.090	1.00 30.11
C									
ATOM	3211	CG1	VAL	A	115	72.862	32.866	54.171	1.00 30.11
C									
ATOM	3212	CG2	VAL	A	115	71.761	33.781	56.211	1.00 30.11
C									
ATOM	3213	N	THR	A	116	76.148	33.774	54.524	1.00 37.66
N									
ATOM	3214	CA	THR	A	116	77.231	33.861	53.552	1.00 37.66
C									
ATOM	3215	C	THR	A	116	77.362	32.545	52.804	1.00 37.66
C									
ATOM	3216	O	THR	A	116	77.530	31.490	53.421	1.00 37.66
O									
ATOM	3217	CB	THR	A	116	78.563	34.199	54.218	1.00 37.66
C									
ATOM	3218	OG1	THR	A	116	78.357	35.158	55.258	1.00 37.66

ATOM O	3244	04	NAG	V	1	41.435	33.990	49.665	1.00	34.73
ATOM O	3245	05	NAG	V	1	42.770	37.265	50.173	1.00	34.73
ATOM O	3246	06	NAG	V	1	43.459	36.524	52.473	1.00	34.73
ATOM O	3247	07	NAG	V	1	41.313	38.595	44.739	1.00	34.73
ATOM C	3248	C1	NAG	V	2	42.076	32.738	49.536	1.00	49.60
ATOM C	3249	C2	NAG	V	2	41.059	31.765	50.114	1.00	49.60
ATOM C	3250	C3	NAG	V	2	41.488	30.321	49.882	1.00	49.60
ATOM C	3251	C4	NAG	V	2	41.924	30.088	48.443	1.00	49.60
ATOM C	3252	C5	NAG	V	2	42.910	31.162	48.014	1.00	49.60
ATOM C	3253	C6	NAG	V	2	43.293	31.070	46.558	1.00	49.60
ATOM C	3254	C7	NAG	V	2	39.880	32.716	52.042	1.00	49.60
ATOM C	3255	C8	NAG	V	2	39.871	32.870	53.531	1.00	49.60
ATOM N	3256	N2	NAG	V	2	40.890	32.010	51.536	1.00	49.60
ATOM O	3257	03	NAG	V	2	40.386	29.476	50.190	1.00	49.60
ATOM O	3258	04	NAG	V	2	42.583	28.832	48.361	1.00	49.60
ATOM O	3259	05	NAG	V	2	42.306	32.444	48.204	1.00	49.60
ATOM O	3260	06	NAG	V	2	42.144	31.050	45.723	1.00	49.60
ATOM O	3261	07	NAG	V	2	39.010	33.202	51.332	1.00	49.60
ATOM C	3262	C1	BMA	V	3	41.744	27.896	47.668	1.00	79.42
ATOM C	3263	C2	BMA	V	3	42.688	26.895	46.992	1.00	79.42
ATOM C	3264	C3	BMA	V	3	41.875	25.797	46.333	1.00	79.42
ATOM C	3265	C4	BMA	V	3	40.885	25.177	47.335	1.00	79.42
ATOM C	3266	C5	BMA	V	3	40.007	26.288	47.939	1.00	79.42
ATOM C	3267	C6	BMA	V	3	39.015	25.790	48.974	1.00	79.42
ATOM O	3268	02	BMA	V	3	43.504	26.268	47.964	1.00	79.42

ATOM O	3269	03	BMA	V	3	42.718	24.799	45.741	1.00	79.42
ATOM O	3270	04	BMA	V	3	40.063	24.241	46.675	1.00	79.42
ATOM O	3271	05	BMA	V	3	40.865	27.247	48.568	1.00	79.42
ATOM O	3272	06	BMA	V	3	39.736	25.228	50.070	1.00	79.42
ATOM C	3273	C1	FUC	V	4	42.760	37.334	53.466	1.00	36.66
ATOM C	3274	C2	FUC	V	4	41.205	37.071	53.587	1.00	36.66
ATOM C	3275	C3	FUC	V	4	40.591	38.199	54.411	1.00	36.66
ATOM C	3276	C4	FUC	V	4	41.562	38.688	55.516	1.00	36.66
ATOM C	3277	C5	FUC	V	4	42.562	37.572	55.896	1.00	36.66
ATOM C	3278	C6	FUC	V	4	43.535	37.975	56.985	1.00	36.66
ATOM O	3279	02	FUC	V	4	40.862	35.812	54.129	1.00	36.66
ATOM O	3280	03	FUC	V	4	40.327	39.303	53.574	1.00	36.66
ATOM O	3281	04	FUC	V	4	42.260	39.848	55.096	1.00	36.66
ATOM O	3282	05	FUC	V	4	43.353	37.127	54.766	1.00	36.66
ATOM C	3283	C1	BMA	V	5	39.108	25.572	51.327	1.00	80.56
ATOM C	3284	C2	BMA	V	5	37.595	25.230	51.269	1.00	80.56
ATOM C	3285	C3	BMA	V	5	36.953	25.485	52.630	1.00	80.56
ATOM C	3286	C4	BMA	V	5	37.739	24.807	53.761	1.00	80.56
ATOM C	3287	C5	BMA	V	5	39.219	25.215	53.697	1.00	80.56
ATOM C	3288	C6	BMA	V	5	40.063	24.506	54.738	1.00	80.56
ATOM O	3289	02	BMA	V	5	37.401	23.855	50.987	1.00	80.56
ATOM O	3290	03	BMA	V	5	35.600	25.049	52.653	1.00	80.56
ATOM O	3291	04	BMA	V	5	37.200	25.185	55.019	1.00	80.56
ATOM O	3292	05	BMA	V	5	39.733	24.874	52.399	1.00	80.56
ATOM O	3293	06	BMA	V	5	39.428	24.659	56.002	1.00	80.56

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