

SUPPLEMENTAL INFORMATION

Construction of plasmids used in the study

PEC2003: (GST) The plasmid PEC610 (*UAF30/pCBGST1*) in which yeast *UAF30* is cloned as *NcoI/KpnI* fragment into pCBGST1 was digested with *NcoI*. The *NcoI* site was filled-in with Klenow and dNTP mix and the linear plasmid was ligated. This results in the generation of a stop codon 6 base pairs (two amino acid residues) downstream of the in-frame ATG codon present in the original *NcoI* site.

PEC2007: (GST-proRTD1a) The proRTD1a sequence was amplified by PCR using oligonucleotides #512 and #513 and using plasmid CIC/pLNCX (from Dr. Jun Yuan, this has a mutation of residue T³⁸A in the prosegment) as template. The PCR product was digested with *NcoI* and *Acc65I* and ligated into plasmid PEC610 previously digested with the same restriction enzymes.

PEC2038: (DBD-proRTD1a) The proRTD1a sequence was amplified by PCR using oligonucleotides #506 and #512 using plasmid CIC/pLNCX as template. The PCR product was digested with *NcoI* and *BamHI* and ligated into plasmid pGBKT7 (Clontech) also digested with *NcoI* and *BamHI*.

PEC2069: (AD-SDF2L1) This plasmid expresses the rhesus SDF2L1 as a fusion to the GAL4 activation domain produced as a result of the recombination between the amplified cDNA and linearized pGADT7-Rec plasmid. This was isolated from a yeast colony containing a putative DBD-proRTD1a interactor.

PEC2073: (DBD-proseg) The prosegment of proRTD1a was amplified by PCR using oligonucleotides #552 and #553 using PEC2038 as template. The PCR product was digested *EcoRI* and *BamHI* and ligated into pGBKT7 vector also digested with the same enzymes.

PEC2075: (GST- Δ N₂₈SDF2L1) Oligonucleotides #556 and #557 were used to amplify Δ N₂₈SDF2L1 by PCR using PEC2069 DNA as template. The PCR product was digested with *BspHI* and *Acc65I* and ligated into PEC2007 DNA digested with *NcoI* and *Acc65I*.

PEC2082: (DBD-proHNP3) The plasmid PEC2080 (proHNP3/pCR2.1) was first digested with *Acc65I* and the site was then filled-in using Klenow and dNTPs. The plasmid was then digested with *EcoRI* and the proHNP3 containing fragment was ligated into pGBKT7 vector digested with *EcoRI* and *SmaI*.

PEC2084: (AD- Δ N₂₈SDF2L1) Plasmid PEC2069 was used as a template to amplify Δ N₂₈SDF2L1 using oligonucleotides #536 and #556. The PCR product was digested with *EcoRI* and *XhoI* and ligated into plasmid pGADT7-Rec digested with the same enzymes.

PEC2105: (AD-SDF2L1 Δ MIR1) Oligonucleotides #557 and #580 were used to amplify SDF2L1- Δ MIR1 (Δ N₈₇-SDF2L1) using PEC2069 as template by PCR. The PCR product

was digested with *EcoRI* and *XhoI* and ligated into pGADT7-Rec digested with the same enzymes.

PEC2106: (AD-SDF2L1 Δ MIR3) Oligonucleotides #535 and #581 were used to amplify SDF2L1- Δ MIR3 (SDF2L1- Δ C₁₅₁) using PEC2069 as template by PCR. The PCR product was digested with *EcoRI* and *XhoI* and ligated into pGADT7-Rec vector also digested with the same enzymes.

PEC2113: (DBD-proHBD1) The proHBD1 fragment was amplified by PCR using oligonucleotides #586 and #587 using PEC2083 (PreproHBD1/pCR2.1 Topo) as template. The PCR product was then cloned into pGBKT7 as *EcoRI* and *BamHI* fragment.

PEC2114: (DBD-proHD5) The proHD5 fragment was amplified by PCR using oligonucleotides #584 and #585 and plasmid PEC2109 (full length HD5 cDNA, item # IHS1380-97652042 from Open Biosystems) as template and cloned as *EcoRI* and *BamHI* fragment into pGBKT7.

PEC2121: (GST-proHNP3) The proHNP3 fragment was amplified using PEC2082 as template and oligonucleotides #597 and #570 by PCR. The PCR product was digested with *NcoI* and *Acc65I* and ligated into PEC610 vector also digested with the same enzymes.

PEC2122: (AD- Δ N₂₈SDF2L1 Δ MIR2) Two fragments coding for the N-terminal (residues 28-94) and C-terminal (residues 150-221) were amplified by PCR using oligonucleotides #535 and #595, and #557 and #596 respectively using PEC2084 DNA as template. The oligonucleotides #595 and #596 also encoded a *BglII* site. The PCR products were digested with *BglII* and ligated. The ligated product was used as a template to amplify Δ N₂₈SDF2L1 Δ MIR2 by PCR using oligonucleotides #535 and #557. The resultant PCR product was digested with *EcoRI* and *XhoI* and ligated into pGADT7-Rec plasmid also digested with the same enzymes.

PEC2123: (DBD-proHNP3 Δ 35-49) The proHNP3 Δ 35-49 DNA was amplified by PCR using oligonucleotides # 570 and #597 and plasmid PEC2119 (proHNP3 Δ 35-49/pCR2.1 Topo) as template. The PCR product was digested with *EcoRI* and *BamHI* and the proHNP3 Δ 35-49 fragment was ligated into pGBKT7 vector also digested with the same enzymes.

PEC2124: (DBD-proRTD1a Δ RLL) The proRTD1a Δ RLL was amplified using oligonucleotides #512 and #547 and plasmid PEC2038 as template by PCR. The PCR product was digested using *BamHI* and *NcoI* and ligated into pGBKT7 vector also digested with the same enzymes.

PEC2125: (DBD-RTD1a) The oligonucleotides #548 and #549 which encode the RTD1a nonamer sequence were annealed by first boiling in water bath and allowing it to cool to

room temperature. The product was then ligated into pGBKT7 vector digested with *EcoRI* and *BamHI*.

PEC2126: (DBD-HNP3) The mature HNP3 sequence was amplified by PCR using oligonucleotides #588 and #597 and PEC2080 as template. The PCR product was digested with *EcoRI* and *XhoI* and then ligated into pGBKT7 vector also digested with *EcoRI* and *XhoI*.

PEC2127: (AD-MIR3) Oligonucleotides #557 and #600 were used to amplify the C-terminal domain of SDF2L1 (residues 151 to 221) by PCR using PEC2069 as template. The PCR product was digested with *EcoRI* and *XhoI* and ligated into PEC2084 (pGADT7-Rec) plasmid also digested with the same enzymes.

List of primers:

#506: 5'-GCGGATCCTTATAACAAACGGCAGAATCC
#512: 5'-GCCCATGGAGGCACGTCAGGCACGTGCTGATG
#513: 5'-GCGGTACCGCGGCCGCTTATAACAAACGGCAGAATCCGCGTGTGCAAATGC
ACCGC
#535: 5'-CTATTCGATGATGAAGATACCCACCAAACCC
#536: 5'-GTGAACTTGCGGGGTTTTTCAGTATCTACG
#547: 5'-GCGGATCCTTAGCAGAATCCTCGTGTGC
#548: 5'-AATTCAGGTGCATTTGCACACGAGGATTCTGCTAAG
#549: 5'-GATCCTTAGCAGAATCCTCGTGTGCAAATGCACCTG
#552: 5'-GCGAATTCGAGGCACGTCAGGCAAGAGC
#553: 5'-GCGGATCCTACAAGCCTTTCGCTGACTCTG
#556: 5'-GTCATGAGCGAATTCGCCAAGACTGGCGCGGGGCTCG
#557: 5'- GCGTCGACTCGAGGTACCTCAGAGTTCATCGTGACCTGC
#570: 5'-GCCCATGGAATTCGAGCCACTCCAGGCAAGAGCTG
#580: 5'-GTCATGAGCGAATTCTCGGAAGGCGGGTGCCCGCGTGGG
#581: 5'-GCGTCGACTCGAGGTACCTAAGAGCAGCGCACTGTCCATAG
#584: 5'-GCCCATGGGAGAATTCGAGTCACTCCAGGAAAGAGC
#585: 5'-GCGGATCCGGTACCTCGAGTCAGCGACAGCAGAGTCTGTAG
#586: 5'- GCCCATGGGAGAATTCGGTAACTTTCTCACAGGCC
#587: 5'-GCGGATCCGGTACCTCGAGTCACTTGCAGCACTTGGCC
#588: 5'-GCGAATTCGACTGCTATTGCAGAATACC
#597: 5'-GCGGATCCGGTACCTCGAGTCAGCAGCAGAATGCCAGAGTC
#600: 5'-GCCCATGGAATTCGGACAGCACTGGGAGCGTGAG

Homology modeling of SDF2L1: The structure of the *C. elegans* protein, 1t9f.PDB was used for homology modeling of SDF2L1 using SWISS-MODEL. The pdb_extract program available at <http://deposit.rcsb.org> was then used to display the co-ordinates of the modeled structure from the PDB file created by SWISS-MODEL.

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data_UNNAMED
#
loop_
_atom_site.group_PDB
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_atom_site.label_atom_id
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_atom_site.auth_seq_id
_atom_site.label_seq_id
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_atom_site.Cartn_x
_atom_site.Cartn_y
_atom_site.Cartn_z
_atom_site.occupancy
_atom_site.B_iso_or_equiv
_atom_site.pdbx_PDB_model_num
ATOM 1 N N . LYS LYS . . 5 5 . 4.336 39.813 -22.052 1.00 50.00 .
ATOM 2 CA CA . LYS LYS . . 5 5 . 4.299 38.539 -21.301 1.00 50.00 .
ATOM 3 C C . LYS LYS . . 5 5 . 4.750 37.370 -22.197 1.00 50.00 .
ATOM 4 O O . LYS LYS . . 5 5 . 3.957 36.540 -22.647 1.00 50.00 .
ATOM 5 CB CB . LYS LYS . . 5 5 . 2.875 38.261 -20.799 1.00 50.00 .
ATOM 6 CG CG . LYS LYS . . 5 5 . 2.287 39.378 -19.941 1.00 50.00 .
ATOM 7 CD CD . LYS LYS . . 5 5 . 0.856 39.019 -19.532 1.00 50.00 .
ATOM 8 CE CE . LYS LYS . . 5 5 . 0.338 40.013 -18.489 1.00 50.00 .
ATOM 9 NZ NZ . LYS LYS . . 5 5 . -0.830 39.485 -17.770 1.00 50.00 .
ATOM 10 N N . THR THR . . 6 6 . 6.054 37.339 -22.472 1.00 50.00 .
ATOM 11 CA CA . THR THR . . 6 6 . 6.654 36.306 -23.346 1.00 50.00 .
ATOM 12 C C . THR THR . . 6 6 . 6.165 34.924 -22.897 1.00 50.00 .
ATOM 13 O O . THR THR . . 6 6 . 6.216 34.614 -21.707 1.00 50.00 .
ATOM 14 CB CB . THR THR . . 6 6 . 8.188 36.339 -23.278 1.00 50.00 .
ATOM 15 OG1 OG1 . THR THR . . 6 6 . 8.616 36.094 -21.935 1.00 50.00 .
ATOM 16 CG2 CG2 . THR THR . . 6 6 . 8.749 37.667 -23.797 1.00 50.00 .
ATOM 17 N N . GLY GLY . . 7 7 . 5.707 34.130 -23.868 1.00 50.00 .
ATOM 18 CA CA . GLY GLY . . 7 7 . 5.174 32.777 -23.594 1.00 50.00 .
ATOM 19 C C . GLY GLY . . 7 7 . 6.253 31.778 -23.138 1.00 50.00 .
ATOM 20 O O . GLY GLY . . 7 7 . 6.004 30.584 -23.034 1.00 50.00 .
ATOM 21 N N . ALA ALA . . 8 8 . 7.447 32.298 -22.863 1.00 50.00 .
ATOM 22 CA CA . ALA ALA . . 8 8 . 8.611 31.518 -22.416 1.00 50.00 .
ATOM 23 C C . ALA ALA . . 8 8 . 9.242 32.098 -21.137 1.00 50.00 .
ATOM 24 O O . ALA ALA . . 8 8 . 10.401 31.844 -20.819 1.00 50.00 .
ATOM 25 CB CB . ALA ALA . . 8 8 . 9.617 31.470 -23.572 1.00 50.00 .
ATOM 26 N N . GLU GLU . . 9 9 . 8.419 32.768 -20.333 1.00 50.00 .
ATOM 27 CA CA . GLU GLU . . 9 9 . 8.857 33.302 -19.024 1.00 50.00 .
ATOM 28 C C . GLU GLU . . 9 9 . 8.452 32.363 -17.874 1.00 50.00 .
ATOM 29 O O . GLU GLU . . 9 9 . 7.999 32.765 -16.802 1.00 50.00 .
ATOM 30 CB CB . GLU GLU . . 9 9 . 8.314 34.718 -18.822 1.00 50.00 .

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ATOM	31	CG	CG	.	GLU	GLU	.	9	9	.	6.786	34.757	-18.832	1.00	50.00	.
ATOM	32	CD	CD	.	GLU	GLU	.	9	9	.	6.319	36.182	-18.611	1.00	50.00	.
ATOM	33	OE1	OE1	.	GLU	GLU	.	9	9	.	6.521	37.014	-19.526	1.00	50.00	.
ATOM	34	OE2	OE2	.	GLU	GLU	.	9	9	.	5.851	36.409	-17.488	1.00	50.00	.
ATOM	35	N	N	.	LEU	LEU	.	10	10	.	8.484	31.083	-18.211	1.00	50.00	.
ATOM	36	CA	CA	.	LEU	LEU	.	10	10	.	8.123	29.997	-17.299	1.00	50.00	.
ATOM	37	C	C	.	LEU	LEU	.	10	10	.	8.991	29.932	-16.059	1.00	50.00	.
ATOM	38	O	O	.	LEU	LEU	.	10	10	.	10.160	30.303	-16.069	1.00	50.00	.
ATOM	39	CB	CB	.	LEU	LEU	.	10	10	.	8.241	28.658	-18.024	1.00	50.00	.
ATOM	40	CG	CG	.	LEU	LEU	.	10	10	.	7.269	28.595	-19.188	1.00	50.00	.
ATOM	41	CD1	CD1	.	LEU	LEU	.	10	10	.	7.436	27.269	-19.920	1.00	50.00	.
ATOM	42	CD2	CD2	.	LEU	LEU	.	10	10	.	5.874	28.797	-18.631	1.00	50.00	.
ATOM	43	N	N	.	VAL	VAL	.	11	11	.	8.355	29.435	-15.018	1.00	50.00	.
ATOM	44	CA	CA	.	VAL	VAL	.	11	11	.	9.020	29.119	-13.758	1.00	50.00	.
ATOM	45	C	C	.	VAL	VAL	.	11	11	.	9.818	27.822	-13.987	1.00	50.00	.
ATOM	46	O	O	.	VAL	VAL	.	11	11	.	9.336	26.867	-14.597	1.00	50.00	.
ATOM	47	CB	CB	.	VAL	VAL	.	11	11	.	7.947	28.960	-12.678	1.00	50.00	.
ATOM	48	CG1	CG1	.	VAL	VAL	.	11	11	.	8.652	28.793	-11.353	1.00	50.00	.
ATOM	49	CG2	CG2	.	VAL	VAL	.	11	11	.	7.039	30.186	-12.533	1.00	50.00	.
ATOM	50	N	N	.	THR	THR	.	12	12	.	11.032	27.808	-13.457	1.00	50.00	.
ATOM	51	CA	CA	.	THR	THR	.	12	12	.	11.964	26.691	-13.687	1.00	50.00	.
ATOM	52	C	C	.	THR	THR	.	12	12	.	12.297	25.966	-12.379	1.00	50.00	.
ATOM	53	O	O	.	THR	THR	.	12	12	.	12.201	26.519	-11.289	1.00	50.00	.
ATOM	54	CB	CB	.	THR	THR	.	12	12	.	13.249	27.176	-14.371	1.00	50.00	.
ATOM	55	OG1	OG1	.	THR	THR	.	12	12	.	13.946	28.081	-13.510	1.00	50.00	.
ATOM	56	CG2	CG2	.	THR	THR	.	12	12	.	12.957	27.827	-15.730	1.00	50.00	.
ATOM	57	N	N	.	CYS	CYS	.	13	13	.	12.631	24.692	-12.505	1.00	50.00	.
ATOM	58	CA	CA	.	CYS	CYS	.	13	13	.	12.985	23.845	-11.356	1.00	50.00	.
ATOM	59	C	C	.	CYS	CYS	.	13	13	.	14.277	24.360	-10.711	1.00	50.00	.
ATOM	60	O	O	.	CYS	CYS	.	13	13	.	15.210	24.774	-11.403	1.00	50.00	.
ATOM	61	CB	CB	.	CYS	CYS	.	13	13	.	13.201	22.412	-11.828	1.00	50.00	.
ATOM	62	SG	SG	.	CYS	CYS	.	13	13	.	12.736	21.208	-10.535	1.00	50.00	.
ATOM	63	N	N	.	GLY	GLY	.	14	14	.	14.264	24.340	-9.377	1.00	50.00	.
ATOM	64	CA	CA	.	GLY	GLY	.	14	14	.	15.394	24.823	-8.562	1.00	50.00	.
ATOM	65	C	C	.	GLY	GLY	.	14	14	.	15.543	26.349	-8.588	1.00	50.00	.
ATOM	66	O	O	.	GLY	GLY	.	14	14	.	16.550	26.865	-8.123	1.00	50.00	.
ATOM	67	N	N	.	SER	SER	.	15	15	.	14.580	27.061	-9.167	1.00	50.00	.
ATOM	68	CA	CA	.	SER	SER	.	15	15	.	14.571	28.533	-9.120	1.00	50.00	.
ATOM	69	C	C	.	SER	SER	.	15	15	.	14.154	28.978	-7.711	1.00	50.00	.
ATOM	70	O	O	.	SER	SER	.	15	15	.	13.455	28.259	-6.990	1.00	50.00	.
ATOM	71	CB	CB	.	SER	SER	.	15	15	.	13.610	29.115	-10.162	1.00	50.00	.
ATOM	72	OG	OG	.	SER	SER	.	15	15	.	12.260	28.801	-9.813	1.00	50.00	.
ATOM	73	N	N	.	VAL	VAL	.	16	16	.	14.649	30.147	-7.330	1.00	50.00	.
ATOM	74	CA	CA	.	VAL	VAL	.	16	16	.	14.320	30.745	-6.021	1.00	50.00	.
ATOM	75	C	C	.	VAL	VAL	.	16	16	.	13.486	31.994	-6.291	1.00	50.00	.
ATOM	76	O	O	.	VAL	VAL	.	16	16	.	13.866	32.854	-7.085	1.00	50.00	.
ATOM	77	CB	CB	.	VAL	VAL	.	16	16	.	15.584	31.129	-5.235	1.00	50.00	.
ATOM	78	CG1	CG1	.	VAL	VAL	.	16	16	.	15.266	31.698	-3.848	1.00	50.00	.
ATOM	79	CG2	CG2	.	VAL	VAL	.	16	16	.	16.464	29.906	-5.035	1.00	50.00	.
ATOM	80	N	N	.	LEU	LEU	.	17	17	.	12.428	32.120	-5.505	1.00	50.00	.
ATOM	81	CA	CA	.	LEU	LEU	.	17	17	.	11.447	33.201	-5.693	1.00	50.00	.
ATOM	82	C	C	.	LEU	LEU	.	17	17	.	10.507	33.348	-4.492	1.00	50.00	.
ATOM	83	O	O	.	LEU	LEU	.	17	17	.	10.506	32.533	-3.568	1.00	50.00	.
ATOM	84	CB	CB	.	LEU	LEU	.	17	17	.	10.678	32.973	-7.012	1.00	50.00	.
ATOM	85	CG	CG	.	LEU	LEU	.	17	17	.	10.214	31.530	-7.260	1.00	50.00	.
ATOM	86	CD1	CD1	.	LEU	LEU	.	17	17	.	9.112	31.092	-6.302	1.00	50.00	.
ATOM	87	CD2	CD2	.	LEU	LEU	.	17	17	.	9.732	31.375	-8.698	1.00	50.00	.

ATOM	88	N	N	.	LYS	LYS	.	.	18	18	.	9.705	34.400	-4.573	1.00	50.00	.
ATOM	89	CA	CA	.	LYS	LYS	.	.	18	18	.	8.703	34.722	-3.546	1.00	50.00	.
ATOM	90	C	C	.	LYS	LYS	.	.	18	18	.	7.304	34.432	-4.104	1.00	50.00	.
ATOM	91	O	O	.	LYS	LYS	.	.	18	18	.	7.048	34.562	-5.305	1.00	50.00	.
ATOM	92	CB	CB	.	LYS	LYS	.	.	18	18	.	8.785	36.206	-3.192	1.00	50.00	.
ATOM	93	CG	CG	.	LYS	LYS	.	.	18	18	.	10.179	36.680	-2.781	1.00	50.00	.
ATOM	94	CD	CD	.	LYS	LYS	.	.	18	18	.	10.236	38.196	-2.935	1.00	50.00	.
ATOM	95	CE	CE	.	LYS	LYS	.	.	18	18	.	11.574	38.763	-2.491	1.00	50.00	.
ATOM	96	NZ	NZ	.	LYS	LYS	.	.	18	18	.	11.826	40.079	-3.083	1.00	50.00	.
ATOM	97	N	N	.	LEU	LEU	.	.	19	19	.	6.435	34.016	-3.193	1.00	50.00	.
ATOM	98	CA	CA	.	LEU	LEU	.	.	19	19	.	5.027	33.712	-3.507	1.00	50.00	.
ATOM	99	C	C	.	LEU	LEU	.	.	19	19	.	4.127	34.752	-2.847	1.00	50.00	.
ATOM	100	O	O	.	LEU	LEU	.	.	19	19	.	4.015	34.821	-1.625	1.00	50.00	.
ATOM	101	CB	CB	.	LEU	LEU	.	.	19	19	.	4.624	32.308	-3.036	1.00	50.00	.
ATOM	102	CG	CG	.	LEU	LEU	.	.	19	19	.	5.104	31.165	-3.939	1.00	50.00	.
ATOM	103	CD1	CD1	.	LEU	LEU	.	.	19	19	.	6.623	31.017	-3.948	1.00	50.00	.
ATOM	104	CD2	CD2	.	LEU	LEU	.	.	19	19	.	4.508	29.850	-3.444	1.00	50.00	.
ATOM	105	N	N	.	LEU	LEU	.	.	20	20	.	3.608	35.622	-3.696	1.00	50.00	.
ATOM	106	CA	CA	.	LEU	LEU	.	.	20	20	.	2.723	36.720	-3.292	1.00	50.00	.
ATOM	107	C	C	.	LEU	LEU	.	.	20	20	.	1.264	36.327	-3.411	1.00	50.00	.
ATOM	108	O	O	.	LEU	LEU	.	.	20	20	.	0.825	35.890	-4.471	1.00	50.00	.
ATOM	109	CB	CB	.	LEU	LEU	.	.	20	20	.	2.932	37.905	-4.238	1.00	50.00	.
ATOM	110	CG	CG	.	LEU	LEU	.	.	20	20	.	4.319	38.510	-4.129	1.00	50.00	.
ATOM	111	CD1	CD1	.	LEU	LEU	.	.	20	20	.	4.443	39.755	-4.998	1.00	50.00	.
ATOM	112	CD2	CD2	.	LEU	LEU	.	.	20	20	.	4.396	39.015	-2.721	1.00	50.00	.
ATOM	113	N	N	.	ASN	ASN	.	.	21	21	.	0.530	36.499	-2.322	1.00	50.00	.
ATOM	114	CA	CA	.	ASN	ASN	.	.	21	21	.	-0.925	36.292	-2.350	1.00	50.00	.
ATOM	115	C	C	.	ASN	ASN	.	.	21	21	.	-1.549	37.414	-3.184	1.00	50.00	.
ATOM	116	O	O	.	ASN	ASN	.	.	21	21	.	-1.486	38.582	-2.818	1.00	50.00	.
ATOM	117	CB	CB	.	ASN	ASN	.	.	21	21	.	-1.486	36.292	-0.931	1.00	50.00	.
ATOM	118	CG	CG	.	ASN	ASN	.	.	21	21	.	-2.941	35.830	-0.936	1.00	50.00	.
ATOM	119	OD1	OD1	.	ASN	ASN	.	.	21	21	.	-3.864	36.606	-1.154	1.00	50.00	.
ATOM	120	ND2	ND2	.	ASN	ASN	.	.	21	21	.	-3.110	34.532	-0.815	1.00	50.00	.
ATOM	121	N	N	.	THR	THR	.	.	22	22	.	-2.249	37.020	-4.234	1.00	50.00	.
ATOM	122	CA	CA	.	THR	THR	.	.	22	22	.	-2.805	37.970	-5.225	1.00	50.00	.
ATOM	123	C	C	.	THR	THR	.	.	22	22	.	-3.732	39.056	-4.661	1.00	50.00	.
ATOM	124	O	O	.	THR	THR	.	.	22	22	.	-3.582	40.227	-4.994	1.00	50.00	.
ATOM	125	CB	CB	.	THR	THR	.	.	22	22	.	-3.566	37.217	-6.310	1.00	50.00	.
ATOM	126	OG1	OG1	.	THR	THR	.	.	22	22	.	-4.619	36.464	-5.693	1.00	50.00	.
ATOM	127	CG2	CG2	.	THR	THR	.	.	22	22	.	-2.589	36.376	-7.135	1.00	50.00	.
ATOM	128	N	N	.	HIS	HIS	.	.	23	23	.	-4.609	38.659	-3.741	1.00	50.00	.
ATOM	129	CA	CA	.	HIS	HIS	.	.	23	23	.	-5.629	39.565	-3.182	1.00	50.00	.
ATOM	130	C	C	.	HIS	HIS	.	.	23	23	.	-5.125	40.378	-1.984	1.00	50.00	.
ATOM	131	O	O	.	HIS	HIS	.	.	23	23	.	-5.618	41.471	-1.721	1.00	50.00	.
ATOM	132	CB	CB	.	HIS	HIS	.	.	23	23	.	-6.886	38.782	-2.792	1.00	50.00	.
ATOM	133	CG	CG	.	HIS	HIS	.	.	23	23	.	-7.586	38.191	-4.019	1.00	50.00	.
ATOM	134	ND1	ND1	.	HIS	HIS	.	.	23	23	.	-7.338	37.002	-4.557	1.00	50.00	.
ATOM	135	CD2	CD2	.	HIS	HIS	.	.	23	23	.	-8.584	38.746	-4.701	1.00	50.00	.
ATOM	136	CE1	CE1	.	HIS	HIS	.	.	23	23	.	-8.181	36.817	-5.566	1.00	50.00	.
ATOM	137	NE2	NE2	.	HIS	HIS	.	.	23	23	.	-8.955	37.895	-5.655	1.00	50.00	.
ATOM	138	N	N	.	HIS	HIS	.	.	24	24	.	-4.146	39.824	-1.273	1.00	50.00	.
ATOM	139	CA	CA	.	HIS	HIS	.	.	24	24	.	-3.619	40.470	-0.062	1.00	50.00	.
ATOM	140	C	C	.	HIS	HIS	.	.	24	24	.	-2.282	41.179	-0.241	1.00	50.00	.
ATOM	141	O	O	.	HIS	HIS	.	.	24	24	.	-2.010	42.086	0.539	1.00	50.00	.
ATOM	142	CB	CB	.	HIS	HIS	.	.	24	24	.	-3.518	39.494	1.105	1.00	50.00	.
ATOM	143	CG	CG	.	HIS	HIS	.	.	24	24	.	-4.922	39.095	1.529	1.00	50.00	.
ATOM	144	ND1	ND1	.	HIS	HIS	.	.	24	24	.	-5.790	39.848	2.197	1.00	50.00	.

ATOM	145	CD2	CD2	.	HIS	HIS	.	.	24	24	.	-5.426	37.883	1.398	1.00	50.00	.
ATOM	146	CE1	CE1	.	HIS	HIS	.	.	24	24	.	-6.830	39.091	2.514	1.00	50.00	.
ATOM	147	NE2	NE2	.	HIS	HIS	.	.	24	24	.	-6.588	37.881	2.030	1.00	50.00	.
ATOM	148	N	N	.	ARG	ARG	.	.	25	25	.	-1.457	40.683	-1.173	1.00	50.00	.
ATOM	149	CA	CA	.	ARG	ARG	.	.	25	25	.	-0.115	41.209	-1.531	1.00	50.00	.
ATOM	150	C	C	.	ARG	ARG	.	.	25	25	.	1.005	40.687	-0.610	1.00	50.00	.
ATOM	151	O	O	.	ARG	ARG	.	.	25	25	.	2.200	40.870	-0.838	1.00	50.00	.
ATOM	152	CB	CB	.	ARG	ARG	.	.	25	25	.	-0.158	42.742	-1.571	1.00	50.00	.
ATOM	153	CG	CG	.	ARG	ARG	.	.	25	25	.	1.169	43.466	-1.775	1.00	50.00	.
ATOM	154	CD	CD	.	ARG	ARG	.	.	25	25	.	0.962	44.961	-1.542	1.00	50.00	.
ATOM	155	NE	NE	.	ARG	ARG	.	.	25	25	.	0.057	45.496	-2.575	1.00	50.00	.
ATOM	156	CZ	CZ	.	ARG	ARG	.	.	25	25	.	0.387	45.766	-3.841	1.00	50.00	.
ATOM	157	NH1	NH1	.	ARG	ARG	.	.	25	25	.	1.622	45.573	-4.287	1.00	50.00	.
ATOM	158	NH2	NH2	.	ARG	ARG	.	.	25	25	.	-0.529	46.230	-4.676	1.00	50.00	.
ATOM	159	N	N	.	VAL	VAL	.	.	26	26	.	0.580	39.959	0.407	1.00	50.00	.
ATOM	160	CA	CA	.	VAL	VAL	.	.	26	26	.	1.457	39.338	1.395	1.00	50.00	.
ATOM	161	C	C	.	VAL	VAL	.	.	26	26	.	2.332	38.251	0.738	1.00	50.00	.
ATOM	162	O	O	.	VAL	VAL	.	.	26	26	.	1.868	37.544	-0.156	1.00	50.00	.
ATOM	163	CB	CB	.	VAL	VAL	.	.	26	26	.	0.467	38.841	2.451	1.00	50.00	.
ATOM	164	CG1	CG1	.	VAL	VAL	.	.	26	26	.	-0.273	37.534	2.162	1.00	50.00	.
ATOM	165	CG2	CG2	.	VAL	VAL	.	.	26	26	.	1.170	38.740	3.768	1.00	50.00	.
ATOM	166	N	N	.	ARG	ARG	.	.	27	27	.	3.528	38.052	1.275	1.00	50.00	.
ATOM	167	CA	CA	.	ARG	ARG	.	.	27	27	.	4.465	37.037	0.754	1.00	50.00	.
ATOM	168	C	C	.	ARG	ARG	.	.	27	27	.	4.436	35.818	1.674	1.00	50.00	.
ATOM	169	O	O	.	ARG	ARG	.	.	27	27	.	4.551	35.974	2.889	1.00	50.00	.
ATOM	170	CB	CB	.	ARG	ARG	.	.	27	27	.	5.919	37.528	0.779	1.00	50.00	.
ATOM	171	CG	CG	.	ARG	ARG	.	.	27	27	.	6.279	38.707	-0.124	1.00	50.00	.
ATOM	172	CD	CD	.	ARG	ARG	.	.	27	27	.	5.676	40.091	0.215	1.00	50.00	.
ATOM	173	NE	NE	.	ARG	ARG	.	.	27	27	.	5.645	41.023	-0.948	1.00	50.00	.
ATOM	174	CZ	CZ	.	ARG	ARG	.	.	27	27	.	6.652	41.340	-1.778	1.00	50.00	.
ATOM	175	NH1	NH1	.	ARG	ARG	.	.	27	27	.	7.846	40.782	-1.643	1.00	50.00	.
ATOM	176	NH2	NH2	.	ARG	ARG	.	.	27	27	.	6.458	42.147	-2.814	1.00	50.00	.
ATOM	177	N	N	.	LEU	LEU	.	.	28	28	.	4.441	34.640	1.062	1.00	50.00	.
ATOM	178	CA	CA	.	LEU	LEU	.	.	28	28	.	4.605	33.369	1.790	1.00	50.00	.
ATOM	179	C	C	.	LEU	LEU	.	.	28	28	.	5.946	33.418	2.536	1.00	50.00	.
ATOM	180	O	O	.	LEU	LEU	.	.	28	28	.	6.969	33.803	1.971	1.00	50.00	.
ATOM	181	CB	CB	.	LEU	LEU	.	.	28	28	.	4.584	32.194	0.806	1.00	50.00	.
ATOM	182	CG	CG	.	LEU	LEU	.	.	28	28	.	4.492	30.839	1.518	1.00	50.00	.
ATOM	183	CD1	CD1	.	LEU	LEU	.	.	28	28	.	3.175	30.710	2.289	1.00	50.00	.
ATOM	184	CD2	CD2	.	LEU	LEU	.	.	28	28	.	4.621	29.702	0.505	1.00	50.00	.
ATOM	185	N	N	.	HIS	HIS	.	.	29	29	.	5.887	33.068	3.811	1.00	50.00	.
ATOM	186	CA	CA	.	HIS	HIS	.	.	29	29	.	6.997	33.303	4.744	1.00	50.00	.
ATOM	187	C	C	.	HIS	HIS	.	.	29	29	.	7.055	32.216	5.818	1.00	50.00	.
ATOM	188	O	O	.	HIS	HIS	.	.	29	29	.	6.068	31.536	6.105	1.00	50.00	.
ATOM	189	CB	CB	.	HIS	HIS	.	.	29	29	.	6.766	34.673	5.387	1.00	50.00	.
ATOM	190	CG	CG	.	HIS	HIS	.	.	29	29	.	7.894	35.098	6.327	1.00	50.00	.
ATOM	191	ND1	ND1	.	HIS	HIS	.	.	29	29	.	7.951	34.840	7.629	1.00	50.00	.
ATOM	192	CD2	CD2	.	HIS	HIS	.	.	29	29	.	8.901	35.907	6.026	1.00	50.00	.
ATOM	193	CE1	CE1	.	HIS	HIS	.	.	29	29	.	8.993	35.493	8.134	1.00	50.00	.
ATOM	194	NE2	NE2	.	HIS	HIS	.	.	29	29	.	9.571	36.165	7.142	1.00	50.00	.
ATOM	195	N	N	.	SER	SER	.	.	30	30	.	8.275	31.997	6.280	1.00	50.00	.
ATOM	196	CA	CA	.	SER	SER	.	.	30	30	.	8.550	31.090	7.401	1.00	50.00	.
ATOM	197	C	C	.	SER	SER	.	.	30	30	.	9.743	31.636	8.197	1.00	50.00	.
ATOM	198	O	O	.	SER	SER	.	.	30	30	.	10.395	32.608	7.817	1.00	50.00	.
ATOM	199	CB	CB	.	SER	SER	.	.	30	30	.	8.802	29.676	6.872	1.00	50.00	.
ATOM	200	OG	OG	.	SER	SER	.	.	30	30	.	8.940	28.766	7.962	1.00	50.00	.
ATOM	201	N	N	.	HIS	HIS	.	.	31	31	.	9.992	31.004	9.333	1.00	50.00	.

ATOM	202	CA	CA	.	HIS	HIS	.	31	31	.	10.960	31.471	10.346	1.00	50.00	.
ATOM	203	C	C	.	HIS	HIS	.	31	31	.	11.157	30.403	11.427	1.00	50.00	.
ATOM	204	O	O	.	HIS	HIS	.	31	31	.	10.459	29.396	11.442	1.00	50.00	.
ATOM	205	CB	CB	.	HIS	HIS	.	31	31	.	10.463	32.796	10.967	1.00	50.00	.
ATOM	206	CG	CG	.	HIS	HIS	.	31	31	.	8.957	32.851	11.288	1.00	50.00	.
ATOM	207	ND1	ND1	.	HIS	HIS	.	31	31	.	8.209	33.948	11.239	1.00	50.00	.
ATOM	208	CD2	CD2	.	HIS	HIS	.	31	31	.	8.133	31.816	11.454	1.00	50.00	.
ATOM	209	CE1	CE1	.	HIS	HIS	.	31	31	.	6.931	33.575	11.307	1.00	50.00	.
ATOM	210	NE2	NE2	.	HIS	HIS	.	31	31	.	6.886	32.253	11.446	1.00	50.00	.
ATOM	211	N	N	.	ASP	ASP	.	32	32	.	11.970	30.717	12.428	1.00	50.00	.
ATOM	212	CA	CA	.	ASP	ASP	.	32	32	.	12.251	29.775	13.528	1.00	50.00	.
ATOM	213	C	C	.	ASP	ASP	.	32	32	.	11.218	29.890	14.670	1.00	50.00	.
ATOM	214	O	O	.	ASP	ASP	.	32	32	.	11.548	29.975	15.851	1.00	50.00	.
ATOM	215	CB	CB	.	ASP	ASP	.	32	32	.	13.688	29.986	14.019	1.00	50.00	.
ATOM	216	CG	CG	.	ASP	ASP	.	32	32	.	14.204	28.804	14.853	1.00	50.00	.
ATOM	217	OD1	OD1	.	ASP	ASP	.	32	32	.	13.388	28.104	15.493	1.00	50.00	.
ATOM	218	OD2	OD2	.	ASP	ASP	.	32	32	.	15.425	28.567	14.760	1.00	50.00	.
ATOM	219	N	N	.	ILE	ILE	.	33	33	.	9.959	30.006	14.272	1.00	50.00	.
ATOM	220	CA	CA	.	ILE	ILE	.	33	33	.	8.827	30.078	15.212	1.00	50.00	.
ATOM	221	C	C	.	ILE	ILE	.	33	33	.	7.935	28.869	14.937	1.00	50.00	.
ATOM	222	O	O	.	ILE	ILE	.	33	33	.	7.428	28.696	13.834	1.00	50.00	.
ATOM	223	CB	CB	.	ILE	ILE	.	33	33	.	8.078	31.411	15.053	1.00	50.00	.
ATOM	224	CG1	CG1	.	ILE	ILE	.	33	33	.	9.080	32.535	15.353	1.00	50.00	.
ATOM	225	CG2	CG2	.	ILE	ILE	.	33	33	.	6.841	31.480	15.969	1.00	50.00	.
ATOM	226	CD1	CD1	.	ILE	ILE	.	33	33	.	8.609	33.954	15.068	1.00	50.00	.
ATOM	227	N	N	.	LYS	LYS	.	34	34	.	7.775	28.052	15.965	1.00	50.00	.
ATOM	228	CA	CA	.	LYS	LYS	.	34	34	.	6.979	26.820	15.846	1.00	50.00	.
ATOM	229	C	C	.	LYS	LYS	.	34	34	.	5.555	27.022	16.371	1.00	50.00	.
ATOM	230	O	O	.	LYS	LYS	.	34	34	.	5.292	27.903	17.190	1.00	50.00	.
ATOM	231	CB	CB	.	LYS	LYS	.	34	34	.	7.654	25.665	16.588	1.00	50.00	.
ATOM	232	CG	CG	.	LYS	LYS	.	34	34	.	9.017	25.333	15.976	1.00	50.00	.
ATOM	233	CD	CD	.	LYS	LYS	.	34	34	.	9.539	24.001	16.508	1.00	50.00	.
ATOM	234	CE	CE	.	LYS	LYS	.	34	34	.	10.871	23.653	15.844	1.00	50.00	.
ATOM	235	NZ	NZ	.	LYS	LYS	.	34	34	.	11.269	22.276	16.167	1.00	50.00	.
ATOM	236	N	N	.	TYR	TYR	.	35	35	.	4.642	26.249	15.794	1.00	50.00	.
ATOM	237	CA	CA	.	TYR	TYR	.	35	35	.	3.239	26.212	16.244	1.00	50.00	.
ATOM	238	C	C	.	TYR	TYR	.	35	35	.	3.149	25.698	17.687	1.00	50.00	.
ATOM	239	O	O	.	TYR	TYR	.	35	35	.	3.965	24.892	18.128	1.00	50.00	.
ATOM	240	CB	CB	.	TYR	TYR	.	35	35	.	2.391	25.310	15.340	1.00	50.00	.
ATOM	241	CG	CG	.	TYR	TYR	.	35	35	.	2.171	25.894	13.944	1.00	50.00	.
ATOM	242	CD1	CD1	.	TYR	TYR	.	35	35	.	1.526	27.117	13.788	1.00	50.00	.
ATOM	243	CD2	CD2	.	TYR	TYR	.	35	35	.	2.494	25.132	12.828	1.00	50.00	.
ATOM	244	CE1	CE1	.	TYR	TYR	.	35	35	.	1.199	27.572	12.520	1.00	50.00	.
ATOM	245	CE2	CE2	.	TYR	TYR	.	35	35	.	2.164	25.585	11.558	1.00	50.00	.
ATOM	246	CZ	CZ	.	TYR	TYR	.	35	35	.	1.519	26.807	11.410	1.00	50.00	.
ATOM	247	OH	OH	.	TYR	TYR	.	35	35	.	1.271	27.326	10.186	1.00	50.00	.
ATOM	248	N	N	.	GLY	GLY	.	36	36	.	2.123	26.194	18.380	1.00	50.00	.
ATOM	249	CA	CA	.	GLY	GLY	.	36	36	.	1.807	25.751	19.751	1.00	50.00	.
ATOM	250	C	C	.	GLY	GLY	.	36	36	.	0.377	25.204	19.815	1.00	50.00	.
ATOM	251	O	O	.	GLY	GLY	.	36	36	.	-0.435	25.697	20.593	1.00	50.00	.
ATOM	252	N	N	.	SER	SER	.	37	37	.	0.072	24.283	18.901	1.00	50.00	.
ATOM	253	CA	CA	.	SER	SER	.	37	37	.	-1.300	23.763	18.719	1.00	50.00	.
ATOM	254	C	C	.	SER	SER	.	37	37	.	-1.365	22.415	17.985	1.00	50.00	.
ATOM	255	O	O	.	SER	SER	.	37	37	.	-1.501	21.381	18.631	1.00	50.00	.
ATOM	256	CB	CB	.	SER	SER	.	37	37	.	-2.192	24.810	18.028	1.00	50.00	.
ATOM	257	OG	OG	.	SER	SER	.	37	37	.	-1.620	25.217	16.775	1.00	50.00	.
ATOM	258	N	N	.	GLY	GLY	.	38	38	.	-1.220	22.462	16.653	1.00	50.00	.

ATOM	259	CA	CA	.	GLY	GLY	.	38	38	.	-1.400	21.294	15.769	1.00	50.00	.
ATOM	260	C	C	.	GLY	GLY	.	38	38	.	-0.297	20.249	15.954	1.00	50.00	.
ATOM	261	O	O	.	GLY	GLY	.	38	38	.	-0.228	19.540	16.953	1.00	50.00	.
ATOM	262	N	N	.	SER	SER	.	39	39	.	0.612	20.246	14.990	1.00	50.00	.
ATOM	263	CA	CA	.	SER	SER	.	39	39	.	1.776	19.337	15.008	1.00	50.00	.
ATOM	264	C	C	.	SER	SER	.	39	39	.	2.931	19.871	15.872	1.00	50.00	.
ATOM	265	O	O	.	SER	SER	.	39	39	.	3.901	19.164	16.133	1.00	50.00	.
ATOM	266	CB	CB	.	SER	SER	.	39	39	.	2.264	19.098	13.579	1.00	50.00	.
ATOM	267	OG	OG	.	SER	SER	.	39	39	.	2.718	20.334	13.015	1.00	50.00	.
ATOM	268	N	N	.	GLY	GLY	.	40	40	.	2.853	21.179	16.165	1.00	50.00	.
ATOM	269	CA	CA	.	GLY	GLY	.	40	40	.	3.920	21.931	16.854	1.00	50.00	.
ATOM	270	C	C	.	GLY	GLY	.	40	40	.	5.194	22.039	16.001	1.00	50.00	.
ATOM	271	O	O	.	GLY	GLY	.	40	40	.	6.291	22.241	16.514	1.00	50.00	.
ATOM	272	N	N	.	GLN	GLN	.	41	41	.	5.019	21.887	14.690	1.00	50.00	.
ATOM	273	CA	CA	.	GLN	GLN	.	41	41	.	6.103	22.081	13.712	1.00	50.00	.
ATOM	274	C	C	.	GLN	GLN	.	41	41	.	6.284	23.577	13.435	1.00	50.00	.
ATOM	275	O	O	.	GLN	GLN	.	41	41	.	5.470	24.404	13.851	1.00	50.00	.
ATOM	276	CB	CB	.	GLN	GLN	.	41	41	.	5.789	21.339	12.414	1.00	50.00	.
ATOM	277	CG	CG	.	GLN	GLN	.	41	41	.	5.767	19.823	12.622	1.00	50.00	.
ATOM	278	CD	CD	.	GLN	GLN	.	41	41	.	5.399	19.092	11.333	1.00	50.00	.
ATOM	279	OE1	OE1	.	GLN	GLN	.	41	41	.	4.711	19.601	10.456	1.00	50.00	.
ATOM	280	NE2	NE2	.	GLN	GLN	.	41	41	.	5.854	17.865	11.246	1.00	50.00	.
ATOM	281	N	N	.	GLN	GLN	.	42	42	.	7.344	23.892	12.700	1.00	50.00	.
ATOM	282	CA	CA	.	GLN	GLN	.	42	42	.	7.651	25.277	12.304	1.00	50.00	.
ATOM	283	C	C	.	GLN	GLN	.	42	42	.	6.478	25.875	11.509	1.00	50.00	.
ATOM	284	O	O	.	GLN	GLN	.	42	42	.	5.955	25.248	10.585	1.00	50.00	.
ATOM	285	CB	CB	.	GLN	GLN	.	42	42	.	8.920	25.242	11.456	1.00	50.00	.
ATOM	286	CG	CG	.	GLN	GLN	.	42	42	.	9.473	26.646	11.221	1.00	50.00	.
ATOM	287	CD	CD	.	GLN	GLN	.	42	42	.	10.772	26.607	10.412	1.00	50.00	.
ATOM	288	OE1	OE1	.	GLN	GLN	.	42	42	.	10.855	26.933	9.232	1.00	50.00	.
ATOM	289	NE2	NE2	.	GLN	GLN	.	42	42	.	11.837	26.191	11.063	1.00	50.00	.
ATOM	290	N	N	.	SER	SER	.	43	43	.	6.022	27.030	11.983	1.00	50.00	.
ATOM	291	CA	CA	.	SER	SER	.	43	43	.	4.886	27.753	11.382	1.00	50.00	.
ATOM	292	C	C	.	SER	SER	.	43	43	.	5.217	28.355	10.009	1.00	50.00	.
ATOM	293	O	O	.	SER	SER	.	43	43	.	6.379	28.551	9.655	1.00	50.00	.
ATOM	294	CB	CB	.	SER	SER	.	43	43	.	4.394	28.864	12.314	1.00	50.00	.
ATOM	295	OG	OG	.	SER	SER	.	43	43	.	5.343	29.929	12.408	1.00	50.00	.
ATOM	296	N	N	.	VAL	VAL	.	44	44	.	4.153	28.556	9.240	1.00	50.00	.
ATOM	297	CA	CA	.	VAL	VAL	.	44	44	.	4.206	29.235	7.930	1.00	50.00	.
ATOM	298	C	C	.	VAL	VAL	.	44	44	.	3.184	30.377	7.966	1.00	50.00	.
ATOM	299	O	O	.	VAL	VAL	.	44	44	.	2.032	30.189	8.363	1.00	50.00	.
ATOM	300	CB	CB	.	VAL	VAL	.	44	44	.	3.871	28.252	6.792	1.00	50.00	.
ATOM	301	CG1	CG1	.	VAL	VAL	.	44	44	.	3.835	28.932	5.420	1.00	50.00	.
ATOM	302	CG2	CG2	.	VAL	VAL	.	44	44	.	4.917	27.143	6.709	1.00	50.00	.
ATOM	303	N	N	.	THR	THR	.	45	45	.	3.637	31.546	7.542	1.00	50.00	.
ATOM	304	CA	CA	.	THR	THR	.	45	45	.	2.775	32.738	7.498	1.00	50.00	.
ATOM	305	C	C	.	THR	THR	.	45	45	.	2.911	33.439	6.139	1.00	50.00	.
ATOM	306	O	O	.	THR	THR	.	45	45	.	3.518	32.930	5.196	1.00	50.00	.
ATOM	307	CB	CB	.	THR	THR	.	45	45	.	3.130	33.721	8.630	1.00	50.00	.
ATOM	308	OG1	OG1	.	THR	THR	.	45	45	.	4.403	34.303	8.346	1.00	50.00	.
ATOM	309	CG2	CG2	.	THR	THR	.	45	45	.	3.110	33.073	10.020	1.00	50.00	.
ATOM	310	N	N	.	GLY	GLY	.	46	46	.	2.187	34.551	6.048	1.00	50.00	.
ATOM	311	CA	CA	.	GLY	GLY	.	46	46	.	2.352	35.515	4.960	1.00	50.00	.
ATOM	312	C	C	.	GLY	GLY	.	46	46	.	2.692	36.841	5.639	1.00	50.00	.
ATOM	313	O	O	.	GLY	GLY	.	46	46	.	1.915	37.306	6.476	1.00	50.00	.
ATOM	314	N	N	.	VAL	VAL	.	47	47	.	3.677	37.531	5.077	1.00	50.00	.
ATOM	315	CA	CA	.	VAL	VAL	.	47	47	.	4.118	38.851	5.589	1.00	50.00	.

ATOM	316	C	C	.	VAL	VAL	.	47	47	.	3.891	40.014	4.607	1.00	50.00	.
ATOM	317	O	O	.	VAL	VAL	.	47	47	.	4.162	39.903	3.409	1.00	50.00	.
ATOM	318	CB	CB	.	VAL	VAL	.	47	47	.	5.591	38.804	6.019	1.00	50.00	.
ATOM	319	CG1	CG1	.	VAL	VAL	.	47	47	.	5.767	37.833	7.189	1.00	50.00	.
ATOM	320	CG2	CG2	.	VAL	VAL	.	47	47	.	6.537	38.449	4.862	1.00	50.00	.
ATOM	321	N	N	.	GLU	GLU	.	48	48	.	3.391	41.119	5.154	1.00	50.00	.
ATOM	322	CA	CA	.	GLU	GLU	.	48	48	.	3.235	42.389	4.419	1.00	50.00	.
ATOM	323	C	C	.	GLU	GLU	.	48	48	.	4.522	43.217	4.592	1.00	50.00	.
ATOM	324	O	O	.	GLU	GLU	.	48	48	.	4.538	44.320	5.136	1.00	50.00	.
ATOM	325	CB	CB	.	GLU	GLU	.	48	48	.	1.988	43.116	4.947	1.00	50.00	.
ATOM	326	CG	CG	.	GLU	GLU	.	48	48	.	1.610	44.362	4.127	1.00	50.00	.
ATOM	327	CD	CD	.	GLU	GLU	.	48	48	.	1.307	44.090	2.646	1.00	50.00	.
ATOM	328	OE1	OE1	.	GLU	GLU	.	48	48	.	1.077	42.911	2.288	1.00	50.00	.
ATOM	329	OE2	OE2	.	GLU	GLU	.	48	48	.	1.361	45.077	1.882	1.00	50.00	.
ATOM	330	N	N	.	ALA	ALA	.	49	49	.	5.626	42.550	4.275	1.00	50.00	.
ATOM	331	CA	CA	.	ALA	ALA	.	49	49	.	6.981	43.098	4.444	1.00	50.00	.
ATOM	332	C	C	.	ALA	ALA	.	49	49	.	7.855	42.639	3.275	1.00	50.00	.
ATOM	333	O	O	.	ALA	ALA	.	49	49	.	8.368	41.518	3.257	1.00	50.00	.
ATOM	334	CB	CB	.	ALA	ALA	.	49	49	.	7.553	42.645	5.794	1.00	50.00	.
ATOM	335	N	N	.	SER	SER	.	50	50	.	7.866	43.485	2.245	1.00	50.00	.
ATOM	336	CA	CA	.	SER	SER	.	50	50	.	8.617	43.241	0.994	1.00	50.00	.
ATOM	337	C	C	.	SER	SER	.	50	50	.	10.072	42.841	1.273	1.00	50.00	.
ATOM	338	O	O	.	SER	SER	.	50	50	.	10.585	43.052	2.370	1.00	50.00	.
ATOM	339	CB	CB	.	SER	SER	.	50	50	.	8.618	44.498	0.115	1.00	50.00	.
ATOM	340	OG	OG	.	SER	SER	.	50	50	.	9.337	44.266	-1.104	1.00	50.00	.
ATOM	341	N	N	.	ASP	ASP	.	51	51	.	10.660	42.186	0.275	1.00	50.00	.
ATOM	342	CA	CA	.	ASP	ASP	.	51	51	.	12.078	41.784	0.238	1.00	50.00	.
ATOM	343	C	C	.	ASP	ASP	.	51	51	.	12.651	41.376	1.606	1.00	50.00	.
ATOM	344	O	O	.	ASP	ASP	.	51	51	.	13.165	42.186	2.375	1.00	50.00	.
ATOM	345	CB	CB	.	ASP	ASP	.	51	51	.	12.910	42.914	-0.390	1.00	50.00	.
ATOM	346	CG	CG	.	ASP	ASP	.	51	51	.	13.852	42.410	-1.488	1.00	50.00	.
ATOM	347	OD1	OD1	.	ASP	ASP	.	51	51	.	13.880	41.179	-1.687	1.00	50.00	.
ATOM	348	OD2	OD2	.	ASP	ASP	.	51	51	.	14.528	43.254	-2.107	1.00	50.00	.
ATOM	349	N	N	.	ASP	ASP	.	52	52	.	12.462	40.102	1.911	1.00	50.00	.
ATOM	350	CA	CA	.	ASP	ASP	.	52	52	.	12.995	39.503	3.143	1.00	50.00	.
ATOM	351	C	C	.	ASP	ASP	.	52	52	.	13.523	38.114	2.775	1.00	50.00	.
ATOM	352	O	O	.	ASP	ASP	.	52	52	.	12.781	37.322	2.203	1.00	50.00	.
ATOM	353	CB	CB	.	ASP	ASP	.	52	52	.	11.877	39.410	4.197	1.00	50.00	.
ATOM	354	CG	CG	.	ASP	ASP	.	52	52	.	12.363	38.970	5.587	1.00	50.00	.
ATOM	355	OD1	OD1	.	ASP	ASP	.	52	52	.	13.506	38.464	5.690	1.00	50.00	.
ATOM	356	OD2	OD2	.	ASP	ASP	.	52	52	.	11.534	38.980	6.520	1.00	50.00	.
ATOM	357	N	N	.	ALA	ALA	.	53	53	.	14.722	37.796	3.251	1.00	50.00	.
ATOM	358	CA	CA	.	ALA	ALA	.	53	53	.	15.370	36.487	3.013	1.00	50.00	.
ATOM	359	C	C	.	ALA	ALA	.	53	53	.	14.522	35.286	3.469	1.00	50.00	.
ATOM	360	O	O	.	ALA	ALA	.	53	53	.	14.436	34.284	2.762	1.00	50.00	.
ATOM	361	CB	CB	.	ALA	ALA	.	53	53	.	16.723	36.449	3.725	1.00	50.00	.
ATOM	362	N	N	.	ASN	ASN	.	54	54	.	13.787	35.470	4.567	1.00	50.00	.
ATOM	363	CA	CA	.	ASN	ASN	.	54	54	.	12.849	34.454	5.093	1.00	50.00	.
ATOM	364	C	C	.	ASN	ASN	.	54	54	.	11.577	34.253	4.245	1.00	50.00	.
ATOM	365	O	O	.	ASN	ASN	.	54	54	.	10.696	33.468	4.580	1.00	50.00	.
ATOM	366	CB	CB	.	ASN	ASN	.	54	54	.	12.460	34.810	6.527	1.00	50.00	.
ATOM	367	CG	CG	.	ASN	ASN	.	54	54	.	13.634	34.683	7.490	1.00	50.00	.
ATOM	368	OD1	OD1	.	ASN	ASN	.	54	54	.	14.278	33.654	7.604	1.00	50.00	.
ATOM	369	ND2	ND2	.	ASN	ASN	.	54	54	.	13.913	35.749	8.208	1.00	50.00	.
ATOM	370	N	N	.	SER	SER	.	55	55	.	11.456	35.029	3.173	1.00	50.00	.
ATOM	371	CA	CA	.	SER	SER	.	55	55	.	10.308	34.917	2.251	1.00	50.00	.
ATOM	372	C	C	.	SER	SER	.	55	55	.	10.687	34.221	0.932	1.00	50.00	.

ATOM	373	O	O	.	SER	SER	.	.	55	55	.	9.943	34.269	-0.048	1.00	50.00	.
ATOM	374	CB	CB	.	SER	SER	.	.	55	55	.	9.731	36.308	1.948	1.00	50.00	.
ATOM	375	OG	OG	.	SER	SER	.	.	55	55	.	9.327	36.967	3.152	1.00	50.00	.
ATOM	376	N	N	.	TYR	TYR	.	.	56	56	.	11.871	33.604	0.908	1.00	50.00	.
ATOM	377	CA	CA	.	TYR	TYR	.	.	56	56	.	12.404	32.986	-0.317	1.00	50.00	.
ATOM	378	C	C	.	TYR	TYR	.	.	56	56	.	12.255	31.473	-0.212	1.00	50.00	.
ATOM	379	O	O	.	TYR	TYR	.	.	56	56	.	12.575	30.851	0.804	1.00	50.00	.
ATOM	380	CB	CB	.	TYR	TYR	.	.	56	56	.	13.877	33.354	-0.547	1.00	50.00	.
ATOM	381	CG	CG	.	TYR	TYR	.	.	56	56	.	14.147	34.828	-0.880	1.00	50.00	.
ATOM	382	CD1	CD1	.	TYR	TYR	.	.	56	56	.	13.377	35.854	-0.345	1.00	50.00	.
ATOM	383	CD2	CD2	.	TYR	TYR	.	.	56	56	.	15.207	35.155	-1.718	1.00	50.00	.
ATOM	384	CE1	CE1	.	TYR	TYR	.	.	56	56	.	13.638	37.174	-0.622	1.00	50.00	.
ATOM	385	CE2	CE2	.	TYR	TYR	.	.	56	56	.	15.473	36.486	-2.006	1.00	50.00	.
ATOM	386	CZ	CZ	.	TYR	TYR	.	.	56	56	.	14.689	37.488	-1.458	1.00	50.00	.
ATOM	387	OH	OH	.	TYR	TYR	.	.	56	56	.	14.943	38.775	-1.763	1.00	50.00	.
ATOM	388	N	N	.	TRP	TRP	.	.	57	57	.	11.713	30.941	-1.294	1.00	50.00	.
ATOM	389	CA	CA	.	TRP	TRP	.	.	57	57	.	11.451	29.502	-1.425	1.00	50.00	.
ATOM	390	C	C	.	TRP	TRP	.	.	57	57	.	12.102	29.006	-2.716	1.00	50.00	.
ATOM	391	O	O	.	TRP	TRP	.	.	57	57	.	12.174	29.736	-3.707	1.00	50.00	.
ATOM	392	CB	CB	.	TRP	TRP	.	.	57	57	.	9.939	29.249	-1.474	1.00	50.00	.
ATOM	393	CG	CG	.	TRP	TRP	.	.	57	57	.	9.211	29.784	-0.236	1.00	50.00	.
ATOM	394	CD1	CD1	.	TRP	TRP	.	.	57	57	.	8.822	31.044	-0.046	1.00	50.00	.
ATOM	395	CD2	CD2	.	TRP	TRP	.	.	57	57	.	8.852	29.065	0.894	1.00	50.00	.
ATOM	396	NE1	NE1	.	TRP	TRP	.	.	57	57	.	8.231	31.156	1.143	1.00	50.00	.
ATOM	397	CE2	CE2	.	TRP	TRP	.	.	57	57	.	8.227	29.967	1.743	1.00	50.00	.
ATOM	398	CE3	CE3	.	TRP	TRP	.	.	57	57	.	8.952	27.723	1.239	1.00	50.00	.
ATOM	399	CZ2	CZ2	.	TRP	TRP	.	.	57	57	.	7.692	29.523	2.947	1.00	50.00	.
ATOM	400	CZ3	CZ3	.	TRP	TRP	.	.	57	57	.	8.405	27.277	2.436	1.00	50.00	.
ATOM	401	CH2	CH2	.	TRP	TRP	.	.	57	57	.	7.774	28.178	3.289	1.00	50.00	.
ATOM	402	N	N	.	ARG	ARG	.	.	58	58	.	12.596	27.778	-2.657	1.00	50.00	.
ATOM	403	CA	CA	.	ARG	ARG	.	.	58	58	.	13.191	27.125	-3.829	1.00	50.00	.
ATOM	404	C	C	.	ARG	ARG	.	.	58	58	.	12.311	25.954	-4.272	1.00	50.00	.
ATOM	405	O	O	.	ARG	ARG	.	.	58	58	.	11.918	25.083	-3.494	1.00	50.00	.
ATOM	406	CB	CB	.	ARG	ARG	.	.	58	58	.	14.614	26.675	-3.497	1.00	50.00	.
ATOM	407	CG	CG	.	ARG	ARG	.	.	58	58	.	15.310	25.964	-4.660	1.00	50.00	.
ATOM	408	CD	CD	.	ARG	ARG	.	.	58	58	.	16.678	25.430	-4.228	1.00	50.00	.
ATOM	409	NE	NE	.	ARG	ARG	.	.	58	58	.	17.577	26.536	-3.846	1.00	50.00	.
ATOM	410	CZ	CZ	.	ARG	ARG	.	.	58	58	.	18.301	27.291	-4.677	1.00	50.00	.
ATOM	411	NH1	NH1	.	ARG	ARG	.	.	58	58	.	18.260	27.106	-5.985	1.00	50.00	.
ATOM	412	NH2	NH2	.	ARG	ARG	.	.	58	58	.	19.030	28.295	-4.215	1.00	50.00	.
ATOM	413	N	N	.	ILE	ILE	.	.	59	59	.	11.974	26.014	-5.550	1.00	50.00	.
ATOM	414	CA	CA	.	ILE	ILE	.	.	59	59	.	11.165	24.973	-6.208	1.00	50.00	.
ATOM	415	C	C	.	ILE	ILE	.	.	59	59	.	12.006	23.704	-6.370	1.00	50.00	.
ATOM	416	O	O	.	ILE	ILE	.	.	59	59	.	13.046	23.710	-7.014	1.00	50.00	.
ATOM	417	CB	CB	.	ILE	ILE	.	.	59	59	.	10.675	25.514	-7.557	1.00	50.00	.
ATOM	418	CG1	CG1	.	ILE	ILE	.	.	59	59	.	9.784	26.725	-7.266	1.00	50.00	.
ATOM	419	CG2	CG2	.	ILE	ILE	.	.	59	59	.	9.969	24.454	-8.417	1.00	50.00	.
ATOM	420	CD1	CD1	.	ILE	ILE	.	.	59	59	.	9.309	27.433	-8.518	1.00	50.00	.
ATOM	421	N	N	.	ARG	ARG	.	.	60	60	.	11.461	22.607	-5.884	1.00	50.00	.
ATOM	422	CA	CA	.	ARG	ARG	.	.	60	60	.	12.085	21.284	-6.039	1.00	50.00	.
ATOM	423	C	C	.	ARG	ARG	.	.	60	60	.	11.138	20.338	-6.760	1.00	50.00	.
ATOM	424	O	O	.	ARG	ARG	.	.	60	60	.	9.922	20.448	-6.606	1.00	50.00	.
ATOM	425	CB	CB	.	ARG	ARG	.	.	60	60	.	12.385	20.696	-4.670	1.00	50.00	.
ATOM	426	CG	CG	.	ARG	ARG	.	.	60	60	.	13.475	21.491	-3.966	1.00	50.00	.
ATOM	427	CD	CD	.	ARG	ARG	.	.	60	60	.	13.681	20.847	-2.605	1.00	50.00	.
ATOM	428	NE	NE	.	ARG	ARG	.	.	60	60	.	14.294	19.516	-2.670	1.00	50.00	.
ATOM	429	CZ	CZ	.	ARG	ARG	.	.	60	60	.	15.596	19.267	-2.810	1.00	50.00	.

ATOM	430	NH1	NH1	. ARG	ARG	. .	60	60	. 16.498	20.239	-2.885	1.00	50.00	.
ATOM	431	NH2	NH2	. ARG	ARG	. .	60	60	. 16.001	18.008	-2.872	1.00	50.00	.
ATOM	432	N	N	. GLY	GLY	. .	61	61	. 11.706	19.324	-7.421	1.00	50.00	.
ATOM	433	CA	CA	. GLY	GLY	. .	61	61	. 10.887	18.281	-8.068	1.00	50.00	.
ATOM	434	C	C	. GLY	GLY	. .	61	61	. 10.036	17.565	-7.006	1.00	50.00	.
ATOM	435	O	O	. GLY	GLY	. .	61	61	. 10.364	17.602	-5.818	1.00	50.00	.
ATOM	436	N	N	. GLY	GLY	. .	62	62	. 8.918	16.972	-7.444	1.00	50.00	.
ATOM	437	CA	CA	. GLY	GLY	. .	62	62	. 8.080	16.133	-6.558	1.00	50.00	.
ATOM	438	C	C	. GLY	GLY	. .	62	62	. 8.964	15.105	-5.829	1.00	50.00	.
ATOM	439	O	O	. GLY	GLY	. .	62	62	. 10.024	14.733	-6.331	1.00	50.00	.
ATOM	440	N	N	. SER	SER	. .	63	63	. 8.504	14.639	-4.670	1.00	50.00	.
ATOM	441	CA	CA	. SER	SER	. .	63	63	. 9.281	13.690	-3.829	1.00	50.00	.
ATOM	442	C	C	. SER	SER	. .	63	63	. 9.829	12.487	-4.608	1.00	50.00	.
ATOM	443	O	O	. SER	SER	. .	63	63	. 11.006	12.160	-4.504	1.00	50.00	.
ATOM	444	CB	CB	. SER	SER	. .	63	63	. 8.428	13.131	-2.692	1.00	50.00	.
ATOM	445	OG	OG	. SER	SER	. .	63	63	. 9.113	12.205	-1.860	1.00	50.00	.
ATOM	446	N	N	. GLU	GLU	. .	64	64	. 8.979	11.921	-5.463	1.00	50.00	.
ATOM	447	CA	CA	. GLU	GLU	. .	64	64	. 9.344	10.764	-6.300	1.00	50.00	.
ATOM	448	C	C	. GLU	GLU	. .	64	64	. 9.665	11.135	-7.758	1.00	50.00	.
ATOM	449	O	O	. GLU	GLU	. .	64	64	. 9.519	10.324	-8.672	1.00	50.00	.
ATOM	450	CB	CB	. GLU	GLU	. .	64	64	. 8.206	9.738	-6.232	1.00	50.00	.
ATOM	451	CG	CG	. GLU	GLU	. .	64	64	. 8.103	9.075	-4.853	1.00	50.00	.
ATOM	452	CD	CD	. GLU	GLU	. .	64	64	. 9.307	8.207	-4.454	1.00	50.00	.
ATOM	453	OE1	OE1	. GLU	GLU	. .	64	64	. 10.252	8.054	-5.260	1.00	50.00	.
ATOM	454	OE2	OE2	. GLU	GLU	. .	64	64	. 9.221	7.657	-3.335	1.00	50.00	.
ATOM	455	N	N	. GLY	GLY	. .	65	65	. 10.077	12.393	-7.943	1.00	50.00	.
ATOM	456	CA	CA	. GLY	GLY	. .	65	65	. 10.452	12.931	-9.259	1.00	50.00	.
ATOM	457	C	C	. GLY	GLY	. .	65	65	. 11.892	13.451	-9.233	1.00	50.00	.
ATOM	458	O	O	. GLY	GLY	. .	65	65	. 12.557	13.479	-8.198	1.00	50.00	.
ATOM	459	N	N	. GLY	GLY	. .	66	66	. 12.321	13.889	-10.415	1.00	50.00	.
ATOM	460	CA	CA	. GLY	GLY	. .	66	66	. 13.648	14.495	-10.612	1.00	50.00	.
ATOM	461	C	C	. GLY	GLY	. .	66	66	. 13.561	15.508	-11.754	1.00	50.00	.
ATOM	462	O	O	. GLY	GLY	. .	66	66	. 12.724	15.376	-12.647	1.00	50.00	.
ATOM	463	N	N	. CYS	CYS	. .	67	67	. 14.369	16.551	-11.635	1.00	50.00	.
ATOM	464	CA	CA	. CYS	CYS	. .	67	67	. 14.416	17.628	-12.636	1.00	50.00	.
ATOM	465	C	C	. CYS	CYS	. .	67	67	. 15.846	18.181	-12.751	1.00	50.00	.
ATOM	466	O	O	. CYS	CYS	. .	67	67	. 16.621	18.070	-11.796	1.00	50.00	.
ATOM	467	CB	CB	. CYS	CYS	. .	67	67	. 13.467	18.760	-12.225	1.00	50.00	.
ATOM	468	SG	SG	. CYS	CYS	. .	67	67	. 14.093	19.714	-10.792	1.00	50.00	.
ATOM	469	N	N	. PRO	PRO	. .	68	68	. 16.181	18.724	-13.920	1.00	50.00	.
ATOM	470	CA	CA	. PRO	PRO	. .	68	68	. 17.378	19.566	-14.049	1.00	50.00	.
ATOM	471	C	C	. PRO	PRO	. .	68	68	. 17.010	21.044	-13.878	1.00	50.00	.
ATOM	472	O	O	. PRO	PRO	. .	68	68	. 15.973	21.536	-14.308	1.00	50.00	.
ATOM	473	CB	CB	. PRO	PRO	. .	68	68	. 17.926	19.238	-15.440	1.00	50.00	.
ATOM	474	CG	CG	. PRO	PRO	. .	68	68	. 16.704	18.813	-16.252	1.00	50.00	.
ATOM	475	CD	CD	. PRO	PRO	. .	68	68	. 15.729	18.220	-15.229	1.00	50.00	.
ATOM	476	N	N	. ARG	ARG	. .	69	69	. 17.853	21.748	-13.143	1.00	50.00	.
ATOM	477	CA	CA	. ARG	ARG	. .	69	69	. 17.799	23.220	-12.996	1.00	50.00	.
ATOM	478	C	C	. ARG	ARG	. .	69	69	. 17.640	23.913	-14.361	1.00	50.00	.
ATOM	479	O	O	. ARG	ARG	. .	69	69	. 18.279	23.533	-15.343	1.00	50.00	.
ATOM	480	CB	CB	. ARG	ARG	. .	69	69	. 19.068	23.757	-12.305	1.00	50.00	.
ATOM	481	CG	CG	. ARG	ARG	. .	69	69	. 20.250	22.776	-12.182	1.00	50.00	.
ATOM	482	CD	CD	. ARG	ARG	. .	69	69	. 20.762	22.299	-13.545	1.00	50.00	.
ATOM	483	NE	NE	. ARG	ARG	. .	69	69	. 21.464	21.013	-13.412	1.00	50.00	.
ATOM	484	CZ	CZ	. ARG	ARG	. .	69	69	. 21.971	20.309	-14.426	1.00	50.00	.
ATOM	485	NH1	NH1	. ARG	ARG	. .	69	69	. 21.849	20.724	-15.682	1.00	50.00	.
ATOM	486	NH2	NH2	. ARG	ARG	. .	69	69	. 22.618	19.177	-14.191	1.00	50.00	.

ATOM	487	N	N	.	GLY	GLY	.	.	70	70	.	16.653	24.813	-14.414	1.00	50.00	.
ATOM	488	CA	CA	.	GLY	GLY	.	.	70	70	.	16.290	25.482	-15.680	1.00	50.00	.
ATOM	489	C	C	.	GLY	GLY	.	.	70	70	.	15.086	24.821	-16.371	1.00	50.00	.
ATOM	490	O	O	.	GLY	GLY	.	.	70	70	.	14.468	25.420	-17.248	1.00	50.00	.
ATOM	491	N	N	.	SER	SER	.	.	71	71	.	14.750	23.600	-15.955	1.00	50.00	.
ATOM	492	CA	CA	.	SER	SER	.	.	71	71	.	13.591	22.880	-16.509	1.00	50.00	.
ATOM	493	C	C	.	SER	SER	.	.	71	71	.	12.291	23.616	-16.215	1.00	50.00	.
ATOM	494	O	O	.	SER	SER	.	.	71	71	.	12.059	23.981	-15.062	1.00	50.00	.
ATOM	495	CB	CB	.	SER	SER	.	.	71	71	.	13.436	21.477	-15.943	1.00	50.00	.
ATOM	496	OG	OG	.	SER	SER	.	.	71	71	.	14.491	20.718	-16.507	1.00	50.00	.
ATOM	497	N	N	.	PRO	PRO	.	.	72	72	.	11.477	23.821	-17.251	1.00	50.00	.
ATOM	498	CA	CA	.	PRO	PRO	.	.	72	72	.	10.151	24.425	-17.090	1.00	50.00	.
ATOM	499	C	C	.	PRO	PRO	.	.	72	72	.	9.266	23.446	-16.315	1.00	50.00	.
ATOM	500	O	O	.	PRO	PRO	.	.	72	72	.	9.394	22.227	-16.416	1.00	50.00	.
ATOM	501	CB	CB	.	PRO	PRO	.	.	72	72	.	9.656	24.622	-18.521	1.00	50.00	.
ATOM	502	CG	CG	.	PRO	PRO	.	.	72	72	.	10.312	23.476	-19.290	1.00	50.00	.
ATOM	503	CD	CD	.	PRO	PRO	.	.	72	72	.	11.694	23.380	-18.646	1.00	50.00	.
ATOM	504	N	N	.	VAL	VAL	.	.	73	73	.	8.409	24.025	-15.502	1.00	50.00	.
ATOM	505	CA	CA	.	VAL	VAL	.	.	73	73	.	7.439	23.248	-14.711	1.00	50.00	.
ATOM	506	C	C	.	VAL	VAL	.	.	73	73	.	6.080	23.335	-15.421	1.00	50.00	.
ATOM	507	O	O	.	VAL	VAL	.	.	73	73	.	5.587	24.410	-15.758	1.00	50.00	.
ATOM	508	CB	CB	.	VAL	VAL	.	.	73	73	.	7.381	23.798	-13.274	1.00	50.00	.
ATOM	509	CG1	CG1	.	VAL	VAL	.	.	73	73	.	8.697	23.627	-12.510	1.00	50.00	.
ATOM	510	CG2	CG2	.	VAL	VAL	.	.	73	73	.	7.151	25.298	-13.315	1.00	50.00	.
ATOM	511	N	N	.	ARG	ARG	.	.	74	74	.	5.529	22.183	-15.748	1.00	50.00	.
ATOM	512	CA	CA	.	ARG	ARG	.	.	74	74	.	4.228	22.094	-16.428	1.00	50.00	.
ATOM	513	C	C	.	ARG	ARG	.	.	74	74	.	3.108	22.144	-15.387	1.00	50.00	.
ATOM	514	O	O	.	ARG	ARG	.	.	74	74	.	3.217	21.613	-14.280	1.00	50.00	.
ATOM	515	CB	CB	.	ARG	ARG	.	.	74	74	.	4.123	20.798	-17.239	1.00	50.00	.
ATOM	516	CG	CG	.	ARG	ARG	.	.	74	74	.	5.189	20.702	-18.331	1.00	50.00	.
ATOM	517	CD	CD	.	ARG	ARG	.	.	74	74	.	4.993	19.420	-19.141	1.00	50.00	.
ATOM	518	NE	NE	.	ARG	ARG	.	.	74	74	.	5.989	19.343	-20.226	1.00	50.00	.
ATOM	519	CZ	CZ	.	ARG	ARG	.	.	74	74	.	7.257	18.932	-20.119	1.00	50.00	.
ATOM	520	NH1	NH1	.	ARG	ARG	.	.	74	74	.	7.759	18.533	-18.958	1.00	50.00	.
ATOM	521	NH2	NH2	.	ARG	ARG	.	.	74	74	.	8.035	18.895	-21.192	1.00	50.00	.
ATOM	522	N	N	.	CYS	CYS	.	.	75	75	.	2.036	22.826	-15.765	1.00	50.00	.
ATOM	523	CA	CA	.	CYS	CYS	.	.	75	75	.	0.819	22.906	-14.936	1.00	50.00	.
ATOM	524	C	C	.	CYS	CYS	.	.	75	75	.	0.235	21.499	-14.746	1.00	50.00	.
ATOM	525	O	O	.	CYS	CYS	.	.	75	75	.	0.262	20.683	-15.669	1.00	50.00	.
ATOM	526	CB	CB	.	CYS	CYS	.	.	75	75	.	-0.215	23.785	-15.634	1.00	50.00	.
ATOM	527	SG	SG	.	CYS	CYS	.	.	75	75	.	0.377	25.484	-15.974	1.00	50.00	.
ATOM	528	N	N	.	GLY	GLY	.	.	76	76	.	-0.094	21.199	-13.487	1.00	50.00	.
ATOM	529	CA	CA	.	GLY	GLY	.	.	76	76	.	-0.626	19.874	-13.117	1.00	50.00	.
ATOM	530	C	C	.	GLY	GLY	.	.	76	76	.	0.432	19.015	-12.411	1.00	50.00	.
ATOM	531	O	O	.	GLY	GLY	.	.	76	76	.	0.099	18.086	-11.678	1.00	50.00	.
ATOM	532	N	N	.	GLN	GLN	.	.	77	77	.	1.701	19.315	-12.685	1.00	50.00	.
ATOM	533	CA	CA	.	GLN	GLN	.	.	77	77	.	2.832	18.625	-12.042	1.00	50.00	.
ATOM	534	C	C	.	GLN	GLN	.	.	77	77	.	2.942	19.029	-10.567	1.00	50.00	.
ATOM	535	O	O	.	GLN	GLN	.	.	77	77	.	2.569	20.136	-10.167	1.00	50.00	.
ATOM	536	CB	CB	.	GLN	GLN	.	.	77	77	.	4.143	18.934	-12.768	1.00	50.00	.
ATOM	537	CG	CG	.	GLN	GLN	.	.	77	77	.	4.145	18.381	-14.196	1.00	50.00	.
ATOM	538	CD	CD	.	GLN	GLN	.	.	77	77	.	5.496	18.619	-14.869	1.00	50.00	.
ATOM	539	OE1	OE1	.	GLN	GLN	.	.	77	77	.	6.018	19.718	-14.968	1.00	50.00	.
ATOM	540	NE2	NE2	.	GLN	GLN	.	.	77	77	.	6.151	17.569	-15.284	1.00	50.00	.
ATOM	541	N	N	.	ALA	ALA	.	.	78	78	.	3.387	18.060	-9.777	1.00	50.00	.
ATOM	542	CA	CA	.	ALA	ALA	.	.	78	78	.	3.647	18.262	-8.344	1.00	50.00	.
ATOM	543	C	C	.	ALA	ALA	.	.	78	78	.	5.079	18.773	-8.135	1.00	50.00	.

ATOM	544	O	O	. ALA	ALA	. .	78	78	. 6.001	18.443	-8.880	1.00	50.00	.
ATOM	545	CB	CB	. ALA	ALA	. .	78	78	. 3.433	16.952	-7.583	1.00	50.00	.
ATOM	546	N	N	. VAL	VAL	. .	79	79	. 5.207	19.604	-7.115	1.00	50.00	.
ATOM	547	CA	CA	. VAL	VAL	. .	79	79	. 6.472	20.228	-6.701	1.00	50.00	.
ATOM	548	C	C	. VAL	VAL	. .	79	79	. 6.582	20.204	-5.164	1.00	50.00	.
ATOM	549	O	O	. VAL	VAL	. .	79	79	. 5.610	19.935	-4.459	1.00	50.00	.
ATOM	550	CB	CB	. VAL	VAL	. .	79	79	. 6.497	21.655	-7.292	1.00	50.00	.
ATOM	551	CG1	CG1	. VAL	VAL	. .	79	79	. 5.448	22.598	-6.700	1.00	50.00	.
ATOM	552	CG2	CG2	. VAL	VAL	. .	79	79	. 7.835	22.341	-7.109	1.00	50.00	.
ATOM	553	N	N	. ARG	ARG	. .	80	80	. 7.789	20.483	-4.700	1.00	50.00	.
ATOM	554	CA	CA	. ARG	ARG	. .	80	80	. 8.071	20.793	-3.291	1.00	50.00	.
ATOM	555	C	C	. ARG	ARG	. .	80	80	. 8.680	22.196	-3.200	1.00	50.00	.
ATOM	556	O	O	. ARG	ARG	. .	80	80	. 9.340	22.666	-4.126	1.00	50.00	.
ATOM	557	CB	CB	. ARG	ARG	. .	80	80	. 9.040	19.765	-2.711	1.00	50.00	.
ATOM	558	CG	CG	. ARG	ARG	. .	80	80	. 8.370	18.395	-2.586	1.00	50.00	.
ATOM	559	CD	CD	. ARG	ARG	. .	80	80	. 9.348	17.362	-2.033	1.00	50.00	.
ATOM	560	NE	NE	. ARG	ARG	. .	80	80	. 10.411	17.106	-3.018	1.00	50.00	.
ATOM	561	CZ	CZ	. ARG	ARG	. .	80	80	. 11.613	16.590	-2.765	1.00	50.00	.
ATOM	562	NH1	NH1	. ARG	ARG	. .	80	80	. 11.987	16.270	-1.534	1.00	50.00	.
ATOM	563	NH2	NH2	. ARG	ARG	. .	80	80	. 12.459	16.393	-3.765	1.00	50.00	.
ATOM	564	N	N	. LEU	LEU	. .	81	81	. 8.408	22.855	-2.081	1.00	50.00	.
ATOM	565	CA	CA	. LEU	LEU	. .	81	81	. 8.899	24.221	-1.831	1.00	50.00	.
ATOM	566	C	C	. LEU	LEU	. .	81	81	. 9.782	24.284	-0.589	1.00	50.00	.
ATOM	567	O	O	. LEU	LEU	. .	81	81	. 9.319	24.001	0.517	1.00	50.00	.
ATOM	568	CB	CB	. LEU	LEU	. .	81	81	. 7.737	25.210	-1.688	1.00	50.00	.
ATOM	569	CG	CG	. LEU	LEU	. .	81	81	. 6.990	25.449	-3.004	1.00	50.00	.
ATOM	570	CD1	CD1	. LEU	LEU	. .	81	81	. 5.779	26.341	-2.738	1.00	50.00	.
ATOM	571	CD2	CD2	. LEU	LEU	. .	81	81	. 7.895	26.108	-4.049	1.00	50.00	.
ATOM	572	N	N	. THR	THR	. .	82	82	. 11.077	24.449	-0.823	1.00	50.00	.
ATOM	573	CA	CA	. THR	THR	. .	82	82	. 12.042	24.606	0.282	1.00	50.00	.
ATOM	574	C	C	. THR	THR	. .	82	82	. 12.106	26.046	0.766	1.00	50.00	.
ATOM	575	O	O	. THR	THR	. .	82	82	. 12.287	26.978	-0.011	1.00	50.00	.
ATOM	576	CB	CB	. THR	THR	. .	82	82	. 13.483	24.237	-0.072	1.00	50.00	.
ATOM	577	OG1	OG1	. THR	THR	. .	82	82	. 13.833	24.772	-1.341	1.00	50.00	.
ATOM	578	CG2	CG2	. THR	THR	. .	82	82	. 13.739	22.747	0.002	1.00	50.00	.
ATOM	579	N	N	. HIS	HIS	. .	83	83	. 12.041	26.171	2.079	1.00	50.00	.
ATOM	580	CA	CA	. HIS	HIS	. .	83	83	. 12.283	27.448	2.757	1.00	50.00	.
ATOM	581	C	C	. HIS	HIS	. .	83	83	. 13.800	27.584	2.923	1.00	50.00	.
ATOM	582	O	O	. HIS	HIS	. .	83	83	. 14.403	26.894	3.744	1.00	50.00	.
ATOM	583	CB	CB	. HIS	HIS	. .	83	83	. 11.556	27.447	4.104	1.00	50.00	.
ATOM	584	CG	CG	. HIS	HIS	. .	83	83	. 11.721	28.786	4.823	1.00	50.00	.
ATOM	585	ND1	ND1	. HIS	HIS	. .	83	83	. 12.366	28.966	5.970	1.00	50.00	.
ATOM	586	CD2	CD2	. HIS	HIS	. .	83	83	. 11.293	29.970	4.400	1.00	50.00	.
ATOM	587	CE1	CE1	. HIS	HIS	. .	83	83	. 12.338	30.256	6.277	1.00	50.00	.
ATOM	588	NE2	NE2	. HIS	HIS	. .	83	83	. 11.680	30.865	5.300	1.00	50.00	.
ATOM	589	N	N	. VAL	VAL	. .	84	84	. 14.385	28.489	2.147	1.00	50.00	.
ATOM	590	CA	CA	. VAL	VAL	. .	84	84	. 15.855	28.649	2.051	1.00	50.00	.
ATOM	591	C	C	. VAL	VAL	. .	84	84	. 16.580	28.738	3.409	1.00	50.00	.
ATOM	592	O	O	. VAL	VAL	. .	84	84	. 17.528	27.997	3.656	1.00	50.00	.
ATOM	593	CB	CB	. VAL	VAL	. .	84	84	. 16.204	29.851	1.144	1.00	50.00	.
ATOM	594	CG1	CG1	. VAL	VAL	. .	84	84	. 15.657	31.187	1.665	1.00	50.00	.
ATOM	595	CG2	CG2	. VAL	VAL	. .	84	84	. 17.713	29.962	0.896	1.00	50.00	.
ATOM	596	N	N	. LEU	LEU	. .	85	85	. 16.072	29.602	4.284	1.00	50.00	.
ATOM	597	CA	CA	. LEU	LEU	. .	85	85	. 16.779	29.940	5.531	1.00	50.00	.
ATOM	598	C	C	. LEU	LEU	. .	85	85	. 16.781	28.793	6.554	1.00	50.00	.
ATOM	599	O	O	. LEU	LEU	. .	85	85	. 17.701	28.678	7.359	1.00	50.00	.
ATOM	600	CB	CB	. LEU	LEU	. .	85	85	. 16.253	31.264	6.107	1.00	50.00	.

ATOM	601	CG	CG	. LEU	LEU	. .	85	85	. 17.081	31.732	7.314	1.00	50.00	.
ATOM	602	CD1	CD1	. LEU	LEU	. .	85	85	. 17.208	33.255	7.345	1.00	50.00	.
ATOM	603	CD2	CD2	. LEU	LEU	. .	85	85	. 16.455	31.260	8.629	1.00	50.00	.
ATOM	604	N	N	. THR	THR	. .	86	86	. 15.741	27.967	6.524	1.00	50.00	.
ATOM	605	CA	CA	. THR	THR	. .	86	86	. 15.599	26.878	7.512	1.00	50.00	.
ATOM	606	C	C	. THR	THR	. .	86	86	. 15.786	25.471	6.919	1.00	50.00	.
ATOM	607	O	O	. THR	THR	. .	86	86	. 15.779	24.488	7.656	1.00	50.00	.
ATOM	608	CB	CB	. THR	THR	. .	86	86	. 14.262	26.971	8.267	1.00	50.00	.
ATOM	609	OG1	OG1	. THR	THR	. .	86	86	. 13.163	26.784	7.369	1.00	50.00	.
ATOM	610	CG2	CG2	. THR	THR	. .	86	86	. 14.120	28.302	9.017	1.00	50.00	.
ATOM	611	N	N	. GLY	GLY	. .	87	87	. 15.849	25.404	5.581	1.00	50.00	.
ATOM	612	CA	CA	. GLY	GLY	. .	87	87	. 15.968	24.148	4.811	1.00	50.00	.
ATOM	613	C	C	. GLY	GLY	. .	87	87	. 14.783	23.182	4.988	1.00	50.00	.
ATOM	614	O	O	. GLY	GLY	. .	87	87	. 14.881	22.011	4.627	1.00	50.00	.
ATOM	615	N	N	. LYS	LYS	. .	88	88	. 13.673	23.710	5.499	1.00	50.00	.
ATOM	616	CA	CA	. LYS	LYS	. .	88	88	. 12.409	22.968	5.651	1.00	50.00	.
ATOM	617	C	C	. LYS	LYS	. .	88	88	. 11.636	23.007	4.323	1.00	50.00	.
ATOM	618	O	O	. LYS	LYS	. .	88	88	. 11.988	23.733	3.392	1.00	50.00	.
ATOM	619	CB	CB	. LYS	LYS	. .	88	88	. 11.581	23.608	6.775	1.00	50.00	.
ATOM	620	CG	CG	. LYS	LYS	. .	88	88	. 12.243	23.553	8.159	1.00	50.00	.
ATOM	621	CD	CD	. LYS	LYS	. .	88	88	. 12.208	22.144	8.746	1.00	50.00	.
ATOM	622	CE	CE	. LYS	LYS	. .	88	88	. 13.014	21.956	10.035	1.00	50.00	.
ATOM	623	NZ	NZ	. LYS	LYS	. .	88	88	. 14.439	22.297	9.890	1.00	50.00	.
ATOM	624	N	N	. ASN	ASN	. .	89	89	. 10.563	22.233	4.263	1.00	50.00	.
ATOM	625	CA	CA	. ASN	ASN	. .	89	89	. 9.670	22.194	3.094	1.00	50.00	.
ATOM	626	C	C	. ASN	ASN	. .	89	89	. 8.244	22.558	3.491	1.00	50.00	.
ATOM	627	O	O	. ASN	ASN	. .	89	89	. 7.788	22.190	4.574	1.00	50.00	.
ATOM	628	CB	CB	. ASN	ASN	. .	89	89	. 9.671	20.798	2.464	1.00	50.00	.
ATOM	629	CG	CG	. ASN	ASN	. .	89	89	. 11.019	20.489	1.818	1.00	50.00	.
ATOM	630	OD1	OD1	. ASN	ASN	. .	89	89	. 11.755	19.591	2.198	1.00	50.00	.
ATOM	631	ND2	ND2	. ASN	ASN	. .	89	89	. 11.318	21.233	0.783	1.00	50.00	.
ATOM	632	N	N	. LEU	LEU	. .	90	90	. 7.565	23.243	2.577	1.00	50.00	.
ATOM	633	CA	CA	. LEU	LEU	. .	90	90	. 6.132	23.550	2.715	1.00	50.00	.
ATOM	634	C	C	. LEU	LEU	. .	90	90	. 5.359	22.230	2.844	1.00	50.00	.
ATOM	635	O	O	. LEU	LEU	. .	90	90	. 5.403	21.378	1.959	1.00	50.00	.
ATOM	636	CB	CB	. LEU	LEU	. .	90	90	. 5.642	24.333	1.494	1.00	50.00	.
ATOM	637	CG	CG	. LEU	LEU	. .	90	90	. 4.236	24.904	1.709	1.00	50.00	.
ATOM	638	CD1	CD1	. LEU	LEU	. .	90	90	. 4.242	25.983	2.795	1.00	50.00	.
ATOM	639	CD2	CD2	. LEU	LEU	. .	90	90	. 3.692	25.470	0.398	1.00	50.00	.
ATOM	640	N	N	. HIS	HIS	. .	91	91	. 4.814	22.033	4.033	1.00	50.00	.
ATOM	641	CA	CA	. HIS	HIS	. .	91	91	. 4.214	20.757	4.428	1.00	50.00	.
ATOM	642	C	C	. HIS	HIS	. .	91	91	. 2.773	20.943	4.890	1.00	50.00	.
ATOM	643	O	O	. HIS	HIS	. .	91	91	. 2.357	22.004	5.366	1.00	50.00	.
ATOM	644	CB	CB	. HIS	HIS	. .	91	91	. 5.026	20.179	5.579	1.00	50.00	.
ATOM	645	CG	CG	. HIS	HIS	. .	91	91	. 4.695	18.704	5.803	1.00	50.00	.
ATOM	646	ND1	ND1	. HIS	HIS	. .	91	91	. 5.397	17.708	5.293	1.00	50.00	.
ATOM	647	CD2	CD2	. HIS	HIS	. .	91	91	. 3.863	18.204	6.709	1.00	50.00	.
ATOM	648	CE1	CE1	. HIS	HIS	. .	91	91	. 5.071	16.601	5.944	1.00	50.00	.
ATOM	649	NE2	NE2	. HIS	HIS	. .	91	91	. 4.092	16.898	6.788	1.00	50.00	.
ATOM	650	N	N	. THR	THR	. .	92	92	. 2.030	19.861	4.733	1.00	50.00	.
ATOM	651	CA	CA	. THR	THR	. .	92	92	. 0.627	19.806	5.159	1.00	50.00	.
ATOM	652	C	C	. THR	THR	. .	92	92	. 0.256	18.370	5.546	1.00	50.00	.
ATOM	653	O	O	. THR	THR	. .	92	92	. 0.910	17.414	5.145	1.00	50.00	.
ATOM	654	CB	CB	. THR	THR	. .	92	92	. -0.249	20.329	4.024	1.00	50.00	.
ATOM	655	OG1	OG1	. THR	THR	. .	92	92	. 0.176	21.613	3.621	1.00	50.00	.
ATOM	656	CG2	CG2	. THR	THR	. .	92	92	. -1.608	20.681	4.558	1.00	50.00	.
ATOM	657	N	N	. HIS	HIS	. .	93	93	. -0.831	18.250	6.303	1.00	50.00	.

ATOM	658	CA	CA	.	HIS	HIS	.	.	93	93	.	-1.246	16.991	6.958	1.00	50.00	.
ATOM	659	C	C	.	HIS	HIS	.	.	93	93	.	-2.599	17.147	7.673	1.00	50.00	.
ATOM	660	O	O	.	HIS	HIS	.	.	93	93	.	-3.162	18.237	7.706	1.00	50.00	.
ATOM	661	CB	CB	.	HIS	HIS	.	.	93	93	.	-0.161	16.547	7.963	1.00	50.00	.
ATOM	662	CG	CG	.	HIS	HIS	.	.	93	93	.	0.483	17.681	8.778	1.00	50.00	.
ATOM	663	ND1	ND1	.	HIS	HIS	.	.	93	93	.	1.655	17.597	9.390	1.00	50.00	.
ATOM	664	CD2	CD2	.	HIS	HIS	.	.	93	93	.	0.042	18.932	8.938	1.00	50.00	.
ATOM	665	CE1	CE1	.	HIS	HIS	.	.	93	93	.	1.946	18.793	9.886	1.00	50.00	.
ATOM	666	NE2	NE2	.	HIS	HIS	.	.	93	93	.	0.946	19.619	9.607	1.00	50.00	.
ATOM	667	N	N	.	HIS	HIS	.	.	94	94	.	-2.993	16.107	8.400	1.00	50.00	.
ATOM	668	CA	CA	.	HIS	HIS	.	.	94	94	.	-4.275	16.051	9.127	1.00	50.00	.
ATOM	669	C	C	.	HIS	HIS	.	.	94	94	.	-4.243	16.658	10.540	1.00	50.00	.
ATOM	670	O	O	.	HIS	HIS	.	.	94	94	.	-4.671	16.058	11.524	1.00	50.00	.
ATOM	671	CB	CB	.	HIS	HIS	.	.	94	94	.	-4.782	14.607	9.139	1.00	50.00	.
ATOM	672	CG	CG	.	HIS	HIS	.	.	94	94	.	-5.517	14.263	7.844	1.00	50.00	.
ATOM	673	ND1	ND1	.	HIS	HIS	.	.	94	94	.	-6.432	15.013	7.235	1.00	50.00	.
ATOM	674	CD2	CD2	.	HIS	HIS	.	.	94	94	.	-5.353	13.150	7.138	1.00	50.00	.
ATOM	675	CE1	CE1	.	HIS	HIS	.	.	94	94	.	-6.836	14.360	6.150	1.00	50.00	.
ATOM	676	NE2	NE2	.	HIS	HIS	.	.	94	94	.	-6.167	13.212	6.090	1.00	50.00	.
ATOM	677	N	N	.	PHE	PHE	.	.	95	95	.	-3.720	17.876	10.606	1.00	50.00	.
ATOM	678	CA	CA	.	PHE	PHE	.	.	95	95	.	-3.749	18.681	11.837	1.00	50.00	.
ATOM	679	C	C	.	PHE	PHE	.	.	95	95	.	-4.610	19.933	11.619	1.00	50.00	.
ATOM	680	O	O	.	PHE	PHE	.	.	95	95	.	-4.651	20.446	10.495	1.00	50.00	.
ATOM	681	CB	CB	.	PHE	PHE	.	.	95	95	.	-2.337	19.078	12.281	1.00	50.00	.
ATOM	682	CG	CG	.	PHE	PHE	.	.	95	95	.	-1.528	17.860	12.727	1.00	50.00	.
ATOM	683	CD1	CD1	.	PHE	PHE	.	.	95	95	.	-1.517	17.435	14.047	1.00	50.00	.
ATOM	684	CD2	CD2	.	PHE	PHE	.	.	95	95	.	-0.749	17.198	11.797	1.00	50.00	.
ATOM	685	CE1	CE1	.	PHE	PHE	.	.	95	95	.	-0.709	16.364	14.414	1.00	50.00	.
ATOM	686	CE2	CE2	.	PHE	PHE	.	.	95	95	.	0.066	16.137	12.150	1.00	50.00	.
ATOM	687	CZ	CZ	.	PHE	PHE	.	.	95	95	.	0.085	15.718	13.472	1.00	50.00	.
ATOM	688	N	N	.	PRO	PRO	.	.	96	96	.	-5.321	20.379	12.663	1.00	50.00	.
ATOM	689	CA	CA	.	PRO	PRO	.	.	96	96	.	-6.113	21.617	12.615	1.00	50.00	.
ATOM	690	C	C	.	PRO	PRO	.	.	96	96	.	-5.184	22.835	12.621	1.00	50.00	.
ATOM	691	O	O	.	PRO	PRO	.	.	96	96	.	-4.134	22.857	13.263	1.00	50.00	.
ATOM	692	CB	CB	.	PRO	PRO	.	.	96	96	.	-6.984	21.560	13.869	1.00	50.00	.
ATOM	693	CG	CG	.	PRO	PRO	.	.	96	96	.	-6.119	20.789	14.866	1.00	50.00	.
ATOM	694	CD	CD	.	PRO	PRO	.	.	96	96	.	-5.433	19.739	13.991	1.00	50.00	.
ATOM	695	N	N	.	SER	SER	.	.	97	97	.	-5.573	23.817	11.827	1.00	50.00	.
ATOM	696	CA	CA	.	SER	SER	.	.	97	97	.	-4.845	25.089	11.721	1.00	50.00	.
ATOM	697	C	C	.	SER	SER	.	.	97	97	.	-4.816	25.815	13.078	1.00	50.00	.
ATOM	698	O	O	.	SER	SER	.	.	97	97	.	-5.693	25.588	13.917	1.00	50.00	.
ATOM	699	CB	CB	.	SER	SER	.	.	97	97	.	-5.537	25.903	10.639	1.00	50.00	.
ATOM	700	OG	OG	.	SER	SER	.	.	97	97	.	-4.866	27.125	10.340	1.00	50.00	.
ATOM	701	N	N	.	PRO	PRO	.	.	98	98	.	-3.761	26.605	13.329	1.00	50.00	.
ATOM	702	CA	CA	.	PRO	PRO	.	.	98	98	.	-3.528	27.245	14.634	1.00	50.00	.
ATOM	703	C	C	.	PRO	PRO	.	.	98	98	.	-4.664	28.162	15.100	1.00	50.00	.
ATOM	704	O	O	.	PRO	PRO	.	.	98	98	.	-5.025	28.135	16.271	1.00	50.00	.
ATOM	705	CB	CB	.	PRO	PRO	.	.	98	98	.	-2.203	27.992	14.465	1.00	50.00	.
ATOM	706	CG	CG	.	PRO	PRO	.	.	98	98	.	-2.172	28.295	12.973	1.00	50.00	.
ATOM	707	CD	CD	.	PRO	PRO	.	.	98	98	.	-2.705	27.004	12.376	1.00	50.00	.
ATOM	708	N	N	.	LEU	LEU	.	.	99	99	.	-5.156	29.006	14.202	1.00	99.99	.
ATOM	709	CA	CA	.	LEU	LEU	.	.	99	99	.	-6.201	29.984	14.545	1.00	99.99	.
ATOM	710	C	C	.	LEU	LEU	.	.	99	99	.	-7.476	29.849	13.695	1.00	99.99	.
ATOM	711	O	O	.	LEU	LEU	.	.	99	99	.	-8.562	30.236	14.112	1.00	99.99	.
ATOM	712	CB	CB	.	LEU	LEU	.	.	99	99	.	-5.572	31.379	14.461	1.00	99.99	.
ATOM	713	CG	CG	.	LEU	LEU	.	.	99	99	.	-4.791	31.870	15.687	1.00	99.99	.
ATOM	714	CD1	CD1	.	LEU	LEU	.	.	99	99	.	-3.471	31.128	15.863	1.00	99.99	.

ATOM	715	CD2	CD2	. LEU	LEU	. .	99	99	. -4.472	33.359	15.551	1.00	99.99	.
ATOM	716	N	N	. SER	SER	. .	100	100	. -7.336	29.264	12.511	1.00	99.99	.
ATOM	717	CA	CA	. SER	SER	. .	100	100	. -8.483	29.047	11.612	1.00	99.99	.
ATOM	718	C	C	. SER	SER	. .	100	100	. -8.482	27.643	11.068	1.00	99.99	.
ATOM	719	O	O	. SER	SER	. .	100	100	. -7.789	27.388	10.083	1.00	99.99	.
ATOM	720	CB	CB	. SER	SER	. .	100	100	. -8.467	30.078	10.483	1.00	99.99	.
ATOM	721	OG	OG	. SER	SER	. .	100	100	. -9.394	29.788	9.437	1.00	99.99	.
ATOM	722	N	N	. ASN	ASN	. .	101	101	. -9.007	26.736	11.884	1.00	99.99	.
ATOM	723	CA	CA	. ASN	ASN	. .	101	101	. -9.245	25.319	11.580	1.00	99.99	.
ATOM	724	C	C	. ASN	ASN	. .	101	101	. -10.317	25.066	10.511	1.00	99.99	.
ATOM	725	O	O	. ASN	ASN	. .	101	101	. -11.545	25.151	10.756	1.00	99.99	.
ATOM	726	CB	CB	. ASN	ASN	. .	101	101	. -9.615	24.625	12.907	1.00	99.99	.
ATOM	727	CG	CG	. ASN	ASN	. .	101	101	. -10.865	25.193	13.593	1.00	99.99	.
ATOM	728	OD1	OD1	. ASN	ASN	. .	101	101	. -11.742	25.880	13.057	1.00	99.99	.
ATOM	729	ND2	ND2	. ASN	ASN	. .	101	101	. -10.972	25.101	14.873	1.00	99.99	.
ATOM	730	N	N	. ASN	ASN	. .	102	102	. -10.116	24.746	9.254	1.00	50.00	.
ATOM	731	CA	CA	. ASN	ASN	. .	102	102	. -8.936	24.576	8.410	1.00	50.00	.
ATOM	732	C	C	. ASN	ASN	. .	102	102	. -7.783	23.692	8.881	1.00	50.00	.
ATOM	733	O	O	. ASN	ASN	. .	102	102	. -7.572	23.421	10.057	1.00	50.00	.
ATOM	734	CB	CB	. ASN	ASN	. .	102	102	. -8.404	25.904	7.875	1.00	50.00	.
ATOM	735	CG	CG	. ASN	ASN	. .	102	102	. -9.478	26.662	7.116	1.00	50.00	.
ATOM	736	OD1	OD1	. ASN	ASN	. .	102	102	. -9.832	27.807	7.352	1.00	50.00	.
ATOM	737	ND2	ND2	. ASN	ASN	. .	102	102	. -9.880	26.026	6.052	1.00	50.00	.
ATOM	738	N	N	. GLN	GLN	. .	103	103	. -7.136	23.183	7.853	1.00	50.00	.
ATOM	739	CA	CA	. GLN	GLN	. .	103	103	. -5.979	22.290	7.963	1.00	50.00	.
ATOM	740	C	C	. GLN	GLN	. .	103	103	. -4.703	23.124	8.138	1.00	50.00	.
ATOM	741	O	O	. GLN	GLN	. .	103	103	. -4.541	24.171	7.513	1.00	50.00	.
ATOM	742	CB	CB	. GLN	GLN	. .	103	103	. -5.960	21.482	6.667	1.00	50.00	.
ATOM	743	CG	CG	. GLN	GLN	. .	103	103	. -4.929	20.361	6.711	1.00	50.00	.
ATOM	744	CD	CD	. GLN	GLN	. .	103	103	. -5.073	19.431	5.514	1.00	50.00	.
ATOM	745	OE1	OE1	. GLN	GLN	. .	103	103	. -5.945	18.593	5.397	1.00	50.00	.
ATOM	746	NE2	NE2	. GLN	GLN	. .	103	103	. -4.193	19.599	4.556	1.00	50.00	.
ATOM	747	N	N	. GLU	GLU	. .	104	104	. -3.815	22.615	8.981	1.00	50.00	.
ATOM	748	CA	CA	. GLU	GLU	. .	104	104	. -2.520	23.255	9.268	1.00	50.00	.
ATOM	749	C	C	. GLU	GLU	. .	104	104	. -1.579	23.155	8.056	1.00	50.00	.
ATOM	750	O	O	. GLU	GLU	. .	104	104	. -1.514	22.125	7.385	1.00	50.00	.
ATOM	751	CB	CB	. GLU	GLU	. .	104	104	. -1.878	22.573	10.480	1.00	50.00	.
ATOM	752	CG	CG	. GLU	GLU	. .	104	104	. -0.633	23.329	10.952	1.00	50.00	.
ATOM	753	CD	CD	. GLU	GLU	. .	104	104	. 0.180	22.497	11.934	1.00	50.00	.
ATOM	754	OE1	OE1	. GLU	GLU	. .	104	104	. 1.027	21.736	11.425	1.00	50.00	.
ATOM	755	OE2	OE2	. GLU	GLU	. .	104	104	. -0.063	22.617	13.153	1.00	50.00	.
ATOM	756	N	N	. VAL	VAL	. .	105	105	. -0.804	24.219	7.877	1.00	50.00	.
ATOM	757	CA	CA	. VAL	VAL	. .	105	105	. 0.293	24.275	6.890	1.00	50.00	.
ATOM	758	C	C	. VAL	VAL	. .	105	105	. 1.578	24.645	7.642	1.00	50.00	.
ATOM	759	O	O	. VAL	VAL	. .	105	105	. 1.633	25.666	8.319	1.00	50.00	.
ATOM	760	CB	CB	. VAL	VAL	. .	105	105	. -0.018	25.299	5.784	1.00	50.00	.
ATOM	761	CG1	CG1	. VAL	VAL	. .	105	105	. 1.142	25.454	4.797	1.00	50.00	.
ATOM	762	CG2	CG2	. VAL	VAL	. .	105	105	. -1.230	24.848	4.973	1.00	50.00	.
ATOM	763	N	N	. SER	SER	. .	106	106	. 2.566	23.774	7.559	1.00	50.00	.
ATOM	764	CA	CA	. SER	SER	. .	106	106	. 3.845	23.956	8.270	1.00	50.00	.
ATOM	765	C	C	. SER	SER	. .	106	106	. 5.061	23.876	7.338	1.00	50.00	.
ATOM	766	O	O	. SER	SER	. .	106	106	. 4.929	23.690	6.131	1.00	50.00	.
ATOM	767	CB	CB	. SER	SER	. .	106	106	. 3.964	22.905	9.377	1.00	50.00	.
ATOM	768	OG	OG	. SER	SER	. .	106	106	. 3.857	21.602	8.801	1.00	50.00	.
ATOM	769	N	N	. ALA	ALA	. .	107	107	. 6.215	24.183	7.916	1.00	50.00	.
ATOM	770	CA	CA	. ALA	ALA	. .	107	107	. 7.530	24.035	7.271	1.00	50.00	.
ATOM	771	C	C	. ALA	ALA	. .	107	107	. 8.244	22.873	7.974	1.00	50.00	.

ATOM	772	O	O	. ALA	ALA	. .	107	107	. 8.584	22.948	9.155	1.00	50.00	.
ATOM	773	CB	CB	. ALA	ALA	. .	107	107	. 8.316	25.341	7.415	1.00	50.00	.
ATOM	774	N	N	. PHE	PHE	. .	108	108	. 8.278	21.745	7.276	1.00	50.00	.
ATOM	775	CA	CA	. PHE	PHE	. .	108	108	. 8.737	20.471	7.855	1.00	50.00	.
ATOM	776	C	C	. PHE	PHE	. .	108	108	. 10.034	19.915	7.255	1.00	50.00	.
ATOM	777	O	O	. PHE	PHE	. .	108	108	. 10.365	20.158	6.097	1.00	50.00	.
ATOM	778	CB	CB	. PHE	PHE	. .	108	108	. 7.590	19.458	7.753	1.00	50.00	.
ATOM	779	CG	CG	. PHE	PHE	. .	108	108	. 8.011	18.001	7.960	1.00	50.00	.
ATOM	780	CD1	CD1	. PHE	PHE	. .	108	108	. 8.154	17.507	9.248	1.00	50.00	.
ATOM	781	CD2	CD2	. PHE	PHE	. .	108	108	. 8.388	17.232	6.865	1.00	50.00	.
ATOM	782	CE1	CE1	. PHE	PHE	. .	108	108	. 8.659	16.230	9.446	1.00	50.00	.
ATOM	783	CE2	CE2	. PHE	PHE	. .	108	108	. 8.899	15.956	7.062	1.00	50.00	.
ATOM	784	CZ	CZ	. PHE	PHE	. .	108	108	. 9.028	15.454	8.352	1.00	50.00	.
ATOM	785	N	N	. GLY	GLY	. .	109	109	. 10.700	19.136	8.117	1.00	50.00	.
ATOM	786	CA	CA	. GLY	GLY	. .	109	109	. 11.834	18.269	7.759	1.00	50.00	.
ATOM	787	C	C	. GLY	GLY	. .	109	109	. 12.974	18.991	7.039	1.00	50.00	.
ATOM	788	O	O	. GLY	GLY	. .	109	109	. 13.541	19.967	7.505	1.00	50.00	.
ATOM	789	N	N	. GLU	GLU	. .	110	110	. 13.444	18.326	6.006	1.00	50.00	.
ATOM	790	CA	CA	. GLU	GLU	. .	110	110	. 14.555	18.797	5.155	1.00	50.00	.
ATOM	791	C	C	. GLU	GLU	. .	110	110	. 14.558	17.912	3.901	1.00	50.00	.
ATOM	792	O	O	. GLU	GLU	. .	110	110	. 13.734	17.002	3.814	1.00	50.00	.
ATOM	793	CB	CB	. GLU	GLU	. .	110	110	. 15.888	18.722	5.930	1.00	50.00	.
ATOM	794	CG	CG	. GLU	GLU	. .	110	110	. 16.184	17.326	6.491	1.00	50.00	.
ATOM	795	CD	CD	. GLU	GLU	. .	110	110	. 17.479	17.284	7.297	1.00	50.00	.
ATOM	796	OE1	OE1	. GLU	GLU	. .	110	110	. 17.527	17.941	8.357	1.00	50.00	.
ATOM	797	OE2	OE2	. GLU	GLU	. .	110	110	. 18.383	16.567	6.816	1.00	50.00	.
ATOM	798	N	N	. ASP	ASP	. .	111	111	. 15.647	17.946	3.140	1.00	50.00	.
ATOM	799	CA	CA	. ASP	ASP	. .	111	111	. 15.767	17.059	1.962	1.00	50.00	.
ATOM	800	C	C	. ASP	ASP	. .	111	111	. 15.835	15.573	2.345	1.00	50.00	.
ATOM	801	O	O	. ASP	ASP	. .	111	111	. 15.251	14.732	1.670	1.00	50.00	.
ATOM	802	CB	CB	. ASP	ASP	. .	111	111	. 16.960	17.440	1.082	1.00	50.00	.
ATOM	803	CG	CG	. ASP	ASP	. .	111	111	. 16.817	18.824	0.435	1.00	50.00	.
ATOM	804	OD1	OD1	. ASP	ASP	. .	111	111	. 15.690	19.368	0.433	1.00	50.00	.
ATOM	805	OD2	OD2	. ASP	ASP	. .	111	111	. 17.878	19.334	0.018	1.00	50.00	.
ATOM	806	N	N	. GLY	GLY	. .	112	112	. 16.436	15.323	3.518	1.00	50.00	.
ATOM	807	CA	CA	. GLY	GLY	. .	112	112	. 16.576	13.969	4.088	1.00	50.00	.
ATOM	808	C	C	. GLY	GLY	. .	112	112	. 15.256	13.400	4.633	1.00	50.00	.
ATOM	809	O	O	. GLY	GLY	. .	112	112	. 14.966	12.219	4.473	1.00	50.00	.
ATOM	810	N	N	. GLU	GLU	. .	113	113	. 14.463	14.276	5.244	1.00	50.00	.
ATOM	811	CA	CA	. GLU	GLU	. .	113	113	. 13.210	13.897	5.931	1.00	50.00	.
ATOM	812	C	C	. GLU	GLU	. .	113	113	. 11.953	13.992	5.051	1.00	50.00	.
ATOM	813	O	O	. GLU	GLU	. .	113	113	. 10.889	13.508	5.438	1.00	50.00	.
ATOM	814	CB	CB	. GLU	GLU	. .	113	113	. 13.019	14.779	7.166	1.00	50.00	.
ATOM	815	CG	CG	. GLU	GLU	. .	113	113	. 14.136	14.590	8.195	1.00	50.00	.
ATOM	816	CD	CD	. GLU	GLU	. .	113	113	. 13.995	15.611	9.323	1.00	50.00	.
ATOM	817	OE1	OE1	. GLU	GLU	. .	113	113	. 13.280	15.290	10.294	1.00	50.00	.
ATOM	818	OE2	OE2	. GLU	GLU	. .	113	113	. 14.567	16.710	9.152	1.00	50.00	.
ATOM	819	N	N	. GLY	GLY	. .	114	114	. 12.077	14.719	3.931	1.00	50.00	.
ATOM	820	CA	CA	. GLY	GLY	. .	114	114	. 10.957	15.009	3.021	1.00	50.00	.
ATOM	821	C	C	. GLY	GLY	. .	114	114	. 10.211	13.739	2.599	1.00	50.00	.
ATOM	822	O	O	. GLY	GLY	. .	114	114	. 10.803	12.702	2.314	1.00	50.00	.
ATOM	823	N	N	. ASP	ASP	. .	115	115	. 8.893	13.829	2.696	1.00	50.00	.
ATOM	824	CA	CA	. ASP	ASP	. .	115	115	. 7.990	12.737	2.285	1.00	50.00	.
ATOM	825	C	C	. ASP	ASP	. .	115	115	. 6.916	13.252	1.307	1.00	50.00	.
ATOM	826	O	O	. ASP	ASP	. .	115	115	. 6.877	14.443	0.993	1.00	50.00	.
ATOM	827	CB	CB	. ASP	ASP	. .	115	115	. 7.406	12.073	3.547	1.00	50.00	.
ATOM	828	CG	CG	. ASP	ASP	. .	115	115	. 6.606	13.025	4.447	1.00	50.00	.

ATOM	829	OD1	OD1	. ASP	ASP	. .	115	115	. 5.980	13.950	3.878	1.00	50.00	.
ATOM	830	OD2	OD2	. ASP	ASP	. .	115	115	. 6.589	12.791	5.667	1.00	50.00	.
ATOM	831	N	N	. ASP	ASP	. .	116	116	. 5.908	12.414	1.059	1.00	50.00	.
ATOM	832	CA	CA	. ASP	ASP	. .	116	116	. 4.784	12.754	0.158	1.00	50.00	.
ATOM	833	C	C	. ASP	ASP	. .	116	116	. 3.997	13.997	0.610	1.00	50.00	.
ATOM	834	O	O	. ASP	ASP	. .	116	116	. 3.587	14.807	-0.216	1.00	50.00	.
ATOM	835	CB	CB	. ASP	ASP	. .	116	116	. 3.829	11.564	0.019	1.00	50.00	.
ATOM	836	CG	CG	. ASP	ASP	. .	116	116	. 2.778	11.731	-1.094	1.00	50.00	.
ATOM	837	OD1	OD1	. ASP	ASP	. .	116	116	. 2.338	12.868	-1.347	1.00	50.00	.
ATOM	838	OD2	OD2	. ASP	ASP	. .	116	116	. 2.439	10.693	-1.690	1.00	50.00	.
ATOM	839	N	N	. LEU	LEU	. .	117	117	. 3.906	14.213	1.915	1.00	50.00	.
ATOM	840	CA	CA	. LEU	LEU	. .	117	117	. 3.176	15.371	2.462	1.00	50.00	.
ATOM	841	C	C	. LEU	LEU	. .	117	117	. 3.818	16.733	2.104	1.00	50.00	.
ATOM	842	O	O	. LEU	LEU	. .	117	117	. 3.348	17.791	2.513	1.00	50.00	.
ATOM	843	CB	CB	. LEU	LEU	. .	117	117	. 3.045	15.230	3.978	1.00	50.00	.
ATOM	844	CG	CG	. LEU	LEU	. .	117	117	. 2.152	14.146	4.592	1.00	50.00	.
ATOM	845	CD1	CD1	. LEU	LEU	. .	117	117	. 2.619	12.724	4.274	1.00	50.00	.
ATOM	846	CD2	CD2	. LEU	LEU	. .	117	117	. 2.150	14.319	6.112	1.00	50.00	.
ATOM	847	N	N	. ASP	ASP	. .	118	118	. 4.986	16.696	1.464	1.00	50.00	.
ATOM	848	CA	CA	. ASP	ASP	. .	118	118	. 5.628	17.908	0.923	1.00	50.00	.
ATOM	849	C	C	. ASP	ASP	. .	118	118	. 5.171	18.285	-0.493	1.00	50.00	.
ATOM	850	O	O	. ASP	ASP	. .	118	118	. 5.538	19.348	-0.986	1.00	50.00	.
ATOM	851	CB	CB	. ASP	ASP	. .	118	118	. 7.153	17.775	0.961	1.00	50.00	.
ATOM	852	CG	CG	. ASP	ASP	. .	118	118	. 7.704	17.726	2.385	1.00	50.00	.
ATOM	853	OD1	OD1	. ASP	ASP	. .	118	118	. 7.069	18.308	3.287	1.00	50.00	.
ATOM	854	OD2	OD2	. ASP	ASP	. .	118	118	. 8.710	17.017	2.580	1.00	50.00	.
ATOM	855	N	N	. LEU	LEU	. .	119	119	. 4.513	17.357	-1.183	1.00	50.00	.
ATOM	856	CA	CA	. LEU	LEU	. .	119	119	. 4.108	17.578	-2.582	1.00	50.00	.
ATOM	857	C	C	. LEU	LEU	. .	119	119	. 2.854	18.448	-2.686	1.00	50.00	.
ATOM	858	O	O	. LEU	LEU	. .	119	119	. 1.839	18.245	-2.015	1.00	50.00	.
ATOM	859	CB	CB	. LEU	LEU	. .	119	119	. 3.874	16.273	-3.352	1.00	50.00	.
ATOM	860	CG	CG	. LEU	LEU	. .	119	119	. 5.074	15.423	-3.748	1.00	50.00	.
ATOM	861	CD1	CD1	. LEU	LEU	. .	119	119	. 5.861	15.037	-2.507	1.00	50.00	.
ATOM	862	CD2	CD2	. LEU	LEU	. .	119	119	. 4.592	14.158	-4.463	1.00	50.00	.
ATOM	863	N	N	. TRP	TRP	. .	120	120	. 2.964	19.373	-3.622	1.00	50.00	.
ATOM	864	CA	CA	. TRP	TRP	. .	120	120	. 1.875	20.294	-3.981	1.00	50.00	.
ATOM	865	C	C	. TRP	TRP	. .	120	120	. 1.718	20.283	-5.500	1.00	50.00	.
ATOM	866	O	O	. TRP	TRP	. .	120	120	. 2.705	20.357	-6.230	1.00	50.00	.
ATOM	867	CB	CB	. TRP	TRP	. .	120	120	. 2.217	21.719	-3.532	1.00	50.00	.
ATOM	868	CG	CG	. TRP	TRP	. .	120	120	. 2.394	21.826	-2.018	1.00	50.00	.
ATOM	869	CD1	CD1	. TRP	TRP	. .	120	120	. 3.509	21.556	-1.344	1.00	50.00	.
ATOM	870	CD2	CD2	. TRP	TRP	. .	120	120	. 1.435	22.212	-1.098	1.00	50.00	.
ATOM	871	NE1	NE1	. TRP	TRP	. .	120	120	. 3.307	21.748	-0.043	1.00	50.00	.
ATOM	872	CE2	CE2	. TRP	TRP	. .	120	120	. 2.055	22.160	0.138	1.00	50.00	.
ATOM	873	CE3	CE3	. TRP	TRP	. .	120	120	. 0.126	22.662	-1.219	1.00	50.00	.
ATOM	874	CZ2	CZ2	. TRP	TRP	. .	120	120	. 1.365	22.575	1.262	1.00	50.00	.
ATOM	875	CZ3	CZ3	. TRP	TRP	. .	120	120	. -0.568	23.076	-0.090	1.00	50.00	.
ATOM	876	CH2	CH2	. TRP	TRP	. .	120	120	. 0.057	23.037	1.149	1.00	50.00	.
ATOM	877	N	N	. THR	THR	. .	121	121	. 0.473	20.202	-5.942	1.00	50.00	.
ATOM	878	CA	CA	. THR	THR	. .	121	121	. 0.136	20.250	-7.376	1.00	50.00	.
ATOM	879	C	C	. THR	THR	. .	121	121	. -0.016	21.722	-7.767	1.00	50.00	.
ATOM	880	O	O	. THR	THR	. .	121	121	. -0.797	22.459	-7.160	1.00	50.00	.
ATOM	881	CB	CB	. THR	THR	. .	121	121	. -1.173	19.494	-7.657	1.00	50.00	.
ATOM	882	OG1	OG1	. THR	THR	. .	121	121	. -1.050	18.146	-7.197	1.00	50.00	.
ATOM	883	CG2	CG2	. THR	THR	. .	121	121	. -1.545	19.497	-9.145	1.00	50.00	.
ATOM	884	N	N	. VAL	VAL	. .	122	122	. 0.736	22.099	-8.794	1.00	50.00	.
ATOM	885	CA	CA	. VAL	VAL	. .	122	122	. 0.670	23.459	-9.362	1.00	50.00	.

ATOM	886	C	C	.	VAL	VAL	.	.	122	122	.	-0.569	23.536	-10.268	1.00	50.00	.
ATOM	887	O	O	.	VAL	VAL	.	.	122	122	.	-0.653	22.839	-11.279	1.00	50.00	.
ATOM	888	CB	CB	.	VAL	VAL	.	.	122	122	.	1.944	23.796	-10.161	1.00	50.00	.
ATOM	889	CG1	CG1	.	VAL	VAL	.	.	122	122	.	1.947	25.257	-10.619	1.00	50.00	.
ATOM	890	CG2	CG2	.	VAL	VAL	.	.	122	122	.	3.219	23.545	-9.354	1.00	50.00	.
ATOM	891	N	N	.	ARG	ARG	.	.	123	123	.	-1.477	24.437	-9.918	1.00	50.00	.
ATOM	892	CA	CA	.	ARG	ARG	.	.	123	123	.	-2.715	24.640	-10.691	1.00	50.00	.
ATOM	893	C	C	.	ARG	ARG	.	.	123	123	.	-2.682	25.940	-11.496	1.00	50.00	.
ATOM	894	O	O	.	ARG	ARG	.	.	123	123	.	-3.079	27.008	-11.024	1.00	50.00	.
ATOM	895	CB	CB	.	ARG	ARG	.	.	123	123	.	-3.922	24.667	-9.762	1.00	50.00	.
ATOM	896	CG	CG	.	ARG	ARG	.	.	123	123	.	-4.136	23.321	-9.084	1.00	50.00	.
ATOM	897	CD	CD	.	ARG	ARG	.	.	123	123	.	-5.348	23.444	-8.175	1.00	50.00	.
ATOM	898	NE	NE	.	ARG	ARG	.	.	123	123	.	-6.598	23.699	-8.924	1.00	50.00	.
ATOM	899	CZ	CZ	.	ARG	ARG	.	.	123	123	.	-7.359	22.771	-9.511	1.00	50.00	.
ATOM	900	NH1	NH1	.	ARG	ARG	.	.	123	123	.	-7.040	21.484	-9.446	1.00	50.00	.
ATOM	901	NH2	NH2	.	ARG	ARG	.	.	123	123	.	-8.445	23.119	-10.187	1.00	50.00	.
ATOM	902	N	N	.	CYS	CYS	.	.	124	124	.	-2.082	25.823	-12.672	1.00	50.00	.
ATOM	903	CA	CA	.	CYS	CYS	.	.	124	124	.	-2.046	26.920	-13.653	1.00	50.00	.
ATOM	904	C	C	.	CYS	CYS	.	.	124	124	.	-2.669	26.498	-14.988	1.00	50.00	.
ATOM	905	O	O	.	CYS	CYS	.	.	124	124	.	-2.792	25.310	-15.281	1.00	50.00	.
ATOM	906	CB	CB	.	CYS	CYS	.	.	124	124	.	-0.624	27.475	-13.820	1.00	50.00	.
ATOM	907	SG	SG	.	CYS	CYS	.	.	124	124	.	0.724	26.273	-14.126	1.00	50.00	.
ATOM	908	N	N	.	SER	SER	.	.	125	125	.	-3.178	27.488	-15.706	1.00	50.00	.
ATOM	909	CA	CA	.	SER	SER	.	.	125	125	.	-3.803	27.276	-17.027	1.00	50.00	.
ATOM	910	C	C	.	SER	SER	.	.	125	125	.	-2.743	27.057	-18.110	1.00	50.00	.
ATOM	911	O	O	.	SER	SER	.	.	125	125	.	-1.630	27.580	-18.029	1.00	50.00	.
ATOM	912	CB	CB	.	SER	SER	.	.	125	125	.	-4.700	28.456	-17.403	1.00	50.00	.
ATOM	913	OG	OG	.	SER	SER	.	.	125	125	.	-5.761	28.552	-16.450	1.00	50.00	.
ATOM	914	N	N	.	GLY	GLY	.	.	126	126	.	-3.141	26.287	-19.128	1.00	50.00	.
ATOM	915	CA	CA	.	GLY	GLY	.	.	126	126	.	-2.208	25.841	-20.180	1.00	50.00	.
ATOM	916	C	C	.	GLY	GLY	.	.	126	126	.	-1.390	24.676	-19.613	1.00	50.00	.
ATOM	917	O	O	.	GLY	GLY	.	.	126	126	.	-1.897	23.883	-18.821	1.00	50.00	.
ATOM	918	N	N	.	GLN	GLN	.	.	127	127	.	-0.120	24.612	-19.989	1.00	50.00	.
ATOM	919	CA	CA	.	GLN	GLN	.	.	127	127	.	0.751	23.521	-19.508	1.00	50.00	.
ATOM	920	C	C	.	GLN	GLN	.	.	127	127	.	2.226	23.924	-19.448	1.00	50.00	.
ATOM	921	O	O	.	GLN	GLN	.	.	127	127	.	3.078	23.401	-20.164	1.00	50.00	.
ATOM	922	CB	CB	.	GLN	GLN	.	.	127	127	.	0.547	22.271	-20.370	1.00	50.00	.
ATOM	923	CG	CG	.	GLN	GLN	.	.	127	127	.	1.299	21.087	-19.761	1.00	50.00	.
ATOM	924	CD	CD	.	GLN	GLN	.	.	127	127	.	1.157	19.839	-20.613	1.00	50.00	.
ATOM	925	OE1	OE1	.	GLN	GLN	.	.	127	127	.	1.475	19.776	-21.792	1.00	50.00	.
ATOM	926	NE2	NE2	.	GLN	GLN	.	.	127	127	.	0.651	18.817	-19.969	1.00	50.00	.
ATOM	927	N	N	.	HIS	HIS	.	.	128	128	.	2.471	24.942	-18.635	1.00	50.00	.
ATOM	928	CA	CA	.	HIS	HIS	.	.	128	128	.	3.827	25.480	-18.444	1.00	50.00	.
ATOM	929	C	C	.	HIS	HIS	.	.	128	128	.	3.711	26.677	-17.510	1.00	50.00	.
ATOM	930	O	O	.	HIS	HIS	.	.	128	128	.	3.172	27.691	-17.912	1.00	50.00	.
ATOM	931	CB	CB	.	HIS	HIS	.	.	128	128	.	4.453	25.868	-19.803	1.00	50.00	.
ATOM	932	CG	CG	.	HIS	HIS	.	.	128	128	.	3.703	26.874	-20.689	1.00	50.00	.
ATOM	933	ND1	ND1	.	HIS	HIS	.	.	128	128	.	2.540	26.678	-21.287	1.00	50.00	.
ATOM	934	CD2	CD2	.	HIS	HIS	.	.	128	128	.	4.153	28.049	-21.146	1.00	50.00	.
ATOM	935	CE1	CE1	.	HIS	HIS	.	.	128	128	.	2.258	27.739	-22.044	1.00	50.00	.
ATOM	936	NE2	NE2	.	HIS	HIS	.	.	128	128	.	3.271	28.597	-21.957	1.00	50.00	.
ATOM	937	N	N	.	TRP	TRP	.	.	129	129	.	3.960	26.491	-16.230	1.00	50.00	.
ATOM	938	CA	CA	.	TRP	TRP	.	.	129	129	.	3.842	27.553	-15.219	1.00	50.00	.
ATOM	939	C	C	.	TRP	TRP	.	.	129	129	.	4.607	28.833	-15.597	1.00	50.00	.
ATOM	940	O	O	.	TRP	TRP	.	.	129	129	.	5.832	28.853	-15.612	1.00	50.00	.
ATOM	941	CB	CB	.	TRP	TRP	.	.	129	129	.	4.372	26.970	-13.913	1.00	50.00	.
ATOM	942	CG	CG	.	TRP	TRP	.	.	129	129	.	4.269	27.878	-12.692	1.00	50.00	.

ATOM	943	CD1	CD1	. TRP	TRP	. .	129	129	. 3.570	29.007	-12.619	1.00	50.00	.
ATOM	944	CD2	CD2	. TRP	TRP	. .	129	129	. 4.726	27.582	-11.413	1.00	50.00	.
ATOM	945	NE1	NE1	. TRP	TRP	. .	129	129	. 3.549	29.433	-11.363	1.00	50.00	.
ATOM	946	CE2	CE2	. TRP	TRP	. .	129	129	. 4.244	28.591	-10.605	1.00	50.00	.
ATOM	947	CE3	CE3	. TRP	TRP	. .	129	129	. 5.496	26.573	-10.846	1.00	50.00	.
ATOM	948	CZ2	CZ2	. TRP	TRP	. .	129	129	. 4.545	28.582	-9.254	1.00	50.00	.
ATOM	949	CZ3	CZ3	. TRP	TRP	. .	129	129	. 5.822	26.571	-9.504	1.00	50.00	.
ATOM	950	CH2	CH2	. TRP	TRP	. .	129	129	. 5.335	27.583	-8.694	1.00	50.00	.
ATOM	951	N	N	. GLU	GLU	. .	130	130	. 3.862	29.870	-15.962	1.00	50.00	.
ATOM	952	CA	CA	. GLU	GLU	. .	130	130	. 4.427	31.160	-16.401	1.00	50.00	.
ATOM	953	C	C	. GLU	GLU	. .	130	130	. 4.502	32.072	-15.180	1.00	50.00	.
ATOM	954	O	O	. GLU	GLU	. .	130	130	. 3.547	32.172	-14.408	1.00	50.00	.
ATOM	955	CB	CB	. GLU	GLU	. .	130	130	. 3.603	31.886	-17.483	1.00	50.00	.
ATOM	956	CG	CG	. GLU	GLU	. .	130	130	. 3.322	31.093	-18.770	1.00	50.00	.
ATOM	957	CD	CD	. GLU	GLU	. .	130	130	. 2.236	30.018	-18.601	1.00	50.00	.
ATOM	958	OE1	OE1	. GLU	GLU	. .	130	130	. 1.649	29.900	-17.506	1.00	50.00	.
ATOM	959	OE2	OE2	. GLU	GLU	. .	130	130	. 1.953	29.314	-19.586	1.00	50.00	.
ATOM	960	N	N	. ARG	ARG	. .	131	131	. 5.592	32.826	-15.128	1.00	50.00	.
ATOM	961	CA	CA	. ARG	ARG	. .	131	131	. 5.839	33.786	-14.033	1.00	50.00	.
ATOM	962	C	C	. ARG	ARG	. .	131	131	. 4.807	34.932	-13.981	1.00	50.00	.
ATOM	963	O	O	. ARG	ARG	. .	131	131	. 4.634	35.583	-12.955	1.00	50.00	.
ATOM	964	CB	CB	. ARG	ARG	. .	131	131	. 7.258	34.338	-14.169	1.00	50.00	.
ATOM	965	CG	CG	. ARG	ARG	. .	131	131	. 7.637	35.253	-12.999	1.00	50.00	.
ATOM	966	CD	CD	. ARG	ARG	. .	131	131	. 9.038	35.834	-13.173	1.00	50.00	.
ATOM	967	NE	NE	. ARG	ARG	. .	131	131	. 10.032	34.756	-13.030	1.00	50.00	.
ATOM	968	CZ	CZ	. ARG	ARG	. .	131	131	. 10.514	34.279	-11.880	1.00	50.00	.
ATOM	969	NH1	NH1	. ARG	ARG	. .	131	131	. 10.118	34.763	-10.709	1.00	50.00	.
ATOM	970	NH2	NH2	. ARG	ARG	. .	131	131	. 11.411	33.306	-11.896	1.00	50.00	.
ATOM	971	N	N	. GLU	GLU	. .	132	132	. 4.081	35.118	-15.077	1.00	50.00	.
ATOM	972	CA	CA	. GLU	GLU	. .	132	132	. 3.101	36.210	-15.199	1.00	50.00	.
ATOM	973	C	C	. GLU	GLU	. .	132	132	. 1.646	35.805	-14.924	1.00	50.00	.
ATOM	974	O	O	. GLU	GLU	. .	132	132	. 0.709	36.587	-15.094	1.00	50.00	.
ATOM	975	CB	CB	. GLU	GLU	. .	132	132	. 3.212	36.734	-16.619	1.00	50.00	.
ATOM	976	CG	CG	. GLU	GLU	. .	132	132	. 2.472	38.043	-16.824	1.00	50.00	.
ATOM	977	CD	CD	. GLU	GLU	. .	132	132	. 2.736	39.196	-15.856	1.00	50.00	.
ATOM	978	OE1	OE1	. GLU	GLU	. .	132	132	. 3.858	39.247	-15.313	1.00	50.00	.
ATOM	979	OE2	OE2	. GLU	GLU	. .	132	132	. 1.826	40.044	-15.737	1.00	50.00	.
ATOM	980	N	N	. ALA	ALA	. .	133	133	. 1.464	34.571	-14.495	1.00	50.00	.
ATOM	981	CA	CA	. ALA	ALA	. .	133	133	. 0.110	34.059	-14.272	1.00	50.00	.
ATOM	982	C	C	. ALA	ALA	. .	133	133	. -0.124	33.789	-12.786	1.00	50.00	.
ATOM	983	O	O	. ALA	ALA	. .	133	133	. 0.802	33.489	-12.032	1.00	50.00	.
ATOM	984	CB	CB	. ALA	ALA	. .	133	133	. -0.086	32.792	-15.106	1.00	50.00	.
ATOM	985	N	N	. ALA	ALA	. .	134	134	. -1.368	34.030	-12.393	1.00	50.00	.
ATOM	986	CA	CA	. ALA	ALA	. .	134	134	. -1.874	33.600	-11.081	1.00	50.00	.
ATOM	987	C	C	. ALA	ALA	. .	134	134	. -2.032	32.071	-11.098	1.00	50.00	.
ATOM	988	O	O	. ALA	ALA	. .	134	134	. -2.155	31.458	-12.160	1.00	50.00	.
ATOM	989	CB	CB	. ALA	ALA	. .	134	134	. -3.217	34.281	-10.830	1.00	50.00	.
ATOM	990	N	N	. VAL	VAL	. .	135	135	. -2.013	31.482	-9.911	1.00	50.00	.
ATOM	991	CA	CA	. VAL	VAL	. .	135	135	. -1.976	30.015	-9.735	1.00	50.00	.
ATOM	992	C	C	. VAL	VAL	. .	135	135	. -2.360	29.634	-8.294	1.00	50.00	.
ATOM	993	O	O	. VAL	VAL	. .	135	135	. -2.295	30.461	-7.384	1.00	50.00	.
ATOM	994	CB	CB	. VAL	VAL	. .	135	135	. -0.582	29.494	-10.172	1.00	50.00	.
ATOM	995	CG1	CG1	. VAL	VAL	. .	135	135	. 0.578	30.230	-9.490	1.00	50.00	.
ATOM	996	CG2	CG2	. VAL	VAL	. .	135	135	. -0.392	27.982	-10.026	1.00	50.00	.
ATOM	997	N	N	. ARG	ARG	. .	136	136	. -2.831	28.399	-8.170	1.00	50.00	.
ATOM	998	CA	CA	. ARG	ARG	. .	136	136	. -3.198	27.766	-6.891	1.00	50.00	.
ATOM	999	C	C	. ARG	ARG	. .	136	136	. -2.427	26.449	-6.683	1.00	50.00	.

ATOM	1000	O	O	. ARG	ARG	. .	136	136	. -1.784	25.965	-7.608	1.00	50.00	.
ATOM	1001	CB	CB	. ARG	ARG	. .	136	136	. -4.672	27.417	-6.851	1.00	50.00	.
ATOM	1002	CG	CG	. ARG	ARG	. .	136	136	. -5.547	28.658	-7.007	1.00	50.00	.
ATOM	1003	CD	CD	. ARG	ARG	. .	136	136	. -6.992	28.289	-6.684	1.00	50.00	.
ATOM	1004	NE	NE	. ARG	ARG	. .	136	136	. -7.513	27.281	-7.618	1.00	50.00	.
ATOM	1005	CZ	CZ	. ARG	ARG	. .	136	136	. -8.096	27.582	-8.774	1.00	50.00	.
ATOM	1006	NH1	NH1	. ARG	ARG	. .	136	136	. -8.243	28.848	-9.146	1.00	50.00	.
ATOM	1007	NH2	NH2	. ARG	ARG	. .	136	136	. -8.554	26.619	-9.554	1.00	50.00	.
ATOM	1008	N	N	. PHE	PHE	. .	137	137	. -2.192	26.193	-5.407	1.00	50.00	.
ATOM	1009	CA	CA	. PHE	PHE	. .	137	137	. -1.315	25.070	-4.980	1.00	50.00	.
ATOM	1010	C	C	. PHE	PHE	. .	137	137	. -2.155	24.145	-4.119	1.00	50.00	.
ATOM	1011	O	O	. PHE	PHE	. .	137	137	. -2.672	24.533	-3.071	1.00	50.00	.
ATOM	1012	CB	CB	. PHE	PHE	. .	137	137	. -0.081	25.554	-4.204	1.00	50.00	.
ATOM	1013	CG	CG	. PHE	PHE	. .	137	137	. 0.914	26.405	-5.013	1.00	50.00	.
ATOM	1014	CD1	CD1	. PHE	PHE	. .	137	137	. 0.485	27.248	-6.024	1.00	50.00	.
ATOM	1015	CD2	CD2	. PHE	PHE	. .	137	137	. 2.278	26.374	-4.744	1.00	50.00	.
ATOM	1016	CE1	CE1	. PHE	PHE	. .	137	137	. 1.327	28.010	-6.775	1.00	50.00	.
ATOM	1017	CE2	CE2	. PHE	PHE	. .	137	137	. 3.145	27.171	-5.490	1.00	50.00	.
ATOM	1018	CZ	CZ	. PHE	PHE	. .	137	137	. 2.671	27.989	-6.504	1.00	50.00	.
ATOM	1019	N	N	. GLN	GLN	. .	138	138	. -2.380	22.970	-4.682	1.00	50.00	.
ATOM	1020	CA	CA	. GLN	GLN	. .	138	138	. -3.244	21.976	-4.040	1.00	50.00	.
ATOM	1021	C	C	. GLN	GLN	. .	138	138	. -2.370	20.848	-3.503	1.00	50.00	.
ATOM	1022	O	O	. GLN	GLN	. .	138	138	. -1.686	20.156	-4.254	1.00	50.00	.
ATOM	1023	CB	CB	. GLN	GLN	. .	138	138	. -4.245	21.462	-5.069	1.00	50.00	.
ATOM	1024	CG	CG	. GLN	GLN	. .	138	138	. -5.229	20.476	-4.442	1.00	50.00	.
ATOM	1025	CD	CD	. GLN	GLN	. .	138	138	. -6.251	19.945	-5.446	1.00	50.00	.
ATOM	1026	OE1	OE1	. GLN	GLN	. .	138	138	. -6.277	20.252	-6.628	1.00	50.00	.
ATOM	1027	NE2	NE2	. GLN	GLN	. .	138	138	. -7.115	19.087	-4.970	1.00	50.00	.
ATOM	1028	N	N	. HIS	HIS	. .	139	139	. -2.395	20.714	-2.184	1.00	50.00	.
ATOM	1029	CA	CA	. HIS	HIS	. .	139	139	. -1.660	19.652	-1.481	1.00	50.00	.
ATOM	1030	C	C	. HIS	HIS	. .	139	139	. -2.073	18.307	-2.084	1.00	50.00	.
ATOM	1031	O	O	. HIS	HIS	. .	139	139	. -3.244	17.944	-2.043	1.00	50.00	.
ATOM	1032	CB	CB	. HIS	HIS	. .	139	139	. -2.022	19.680	0.005	1.00	50.00	.
ATOM	1033	CG	CG	. HIS	HIS	. .	139	139	. -1.113	18.772	0.835	1.00	50.00	.
ATOM	1034	ND1	ND1	. HIS	HIS	. .	139	139	. -1.504	17.843	1.703	1.00	50.00	.
ATOM	1035	CD2	CD2	. HIS	HIS	. .	139	139	. 0.212	18.836	0.879	1.00	50.00	.
ATOM	1036	CE1	CE1	. HIS	HIS	. .	139	139	. -0.438	17.318	2.285	1.00	50.00	.
ATOM	1037	NE2	NE2	. HIS	HIS	. .	139	139	. 0.611	17.935	1.768	1.00	50.00	.
ATOM	1038	N	N	. VAL	VAL	. .	140	140	. -1.091	17.563	-2.568	1.00	50.00	.
ATOM	1039	CA	CA	. VAL	VAL	. .	140	140	. -1.346	16.280	-3.260	1.00	50.00	.
ATOM	1040	C	C	. VAL	VAL	. .	140	140	. -2.070	15.253	-2.360	1.00	50.00	.
ATOM	1041	O	O	. VAL	VAL	. .	140	140	. -3.033	14.617	-2.775	1.00	50.00	.
ATOM	1042	CB	CB	. VAL	VAL	. .	140	140	. -0.017	15.714	-3.795	1.00	50.00	.
ATOM	1043	CG1	CG1	. VAL	VAL	. .	140	140	. 0.919	15.293	-2.662	1.00	50.00	.
ATOM	1044	CG2	CG2	. VAL	VAL	. .	140	140	. -0.227	14.522	-4.732	1.00	50.00	.
ATOM	1045	N	N	. GLY	GLY	. .	141	141	. -1.568	15.155	-1.119	1.00	50.00	.
ATOM	1046	CA	CA	. GLY	GLY	. .	141	141	. -1.957	14.100	-0.169	1.00	50.00	.
ATOM	1047	C	C	. GLY	GLY	. .	141	141	. -3.386	14.291	0.329	1.00	50.00	.
ATOM	1048	O	O	. GLY	GLY	. .	141	141	. -4.196	13.371	0.335	1.00	50.00	.
ATOM	1049	N	N	. THR	THR	. .	142	142	. -3.670	15.538	0.676	1.00	50.00	.
ATOM	1050	CA	CA	. THR	THR	. .	142	142	. -4.960	15.888	1.296	1.00	50.00	.
ATOM	1051	C	C	. THR	THR	. .	142	142	. -5.963	16.523	0.333	1.00	50.00	.
ATOM	1052	O	O	. THR	THR	. .	142	142	. -7.144	16.530	0.659	1.00	50.00	.
ATOM	1053	CB	CB	. THR	THR	. .	142	142	. -4.793	16.790	2.522	1.00	50.00	.
ATOM	1054	OG1	OG1	. THR	THR	. .	142	142	. -4.152	18.009	2.130	1.00	50.00	.
ATOM	1055	CG2	CG2	. THR	THR	. .	142	142	. -4.009	16.080	3.633	1.00	50.00	.
ATOM	1056	N	N	. SER	SER	. .	143	143	. -5.462	17.187	-0.719	1.00	50.00	.

ATOM	1057	CA	CA	.	SER	SER	.	.	143	143	.	-6.257	17.894	-1.757	1.00	50.00	.
ATOM	1058	C	C	.	SER	SER	.	.	143	143	.	-6.597	19.340	-1.362	1.00	50.00	.
ATOM	1059	O	O	.	SER	SER	.	.	143	143	.	-7.178	20.123	-2.108	1.00	50.00	.
ATOM	1060	CB	CB	.	SER	SER	.	.	143	143	.	-7.512	17.086	-2.127	1.00	50.00	.
ATOM	1061	OG	OG	.	SER	SER	.	.	143	143	.	-8.428	17.790	-2.955	1.00	50.00	.
ATOM	1062	N	N	.	VAL	VAL	.	.	144	144	.	-6.131	19.716	-0.184	1.00	50.00	.
ATOM	1063	CA	CA	.	VAL	VAL	.	.	144	144	.	-6.342	21.053	0.357	1.00	50.00	.
ATOM	1064	C	C	.	VAL	VAL	.	.	144	144	.	-5.580	22.098	-0.468	1.00	50.00	.
ATOM	1065	O	O	.	VAL	VAL	.	.	144	144	.	-4.429	21.887	-0.844	1.00	50.00	.
ATOM	1066	CB	CB	.	VAL	VAL	.	.	144	144	.	-5.898	20.942	1.810	1.00	50.00	.
ATOM	1067	CG1	CG1	.	VAL	VAL	.	.	144	144	.	-4.425	21.261	2.095	1.00	50.00	.
ATOM	1068	CG2	CG2	.	VAL	VAL	.	.	144	144	.	-6.875	21.752	2.624	1.00	50.00	.
ATOM	1069	N	N	.	PHE	PHE	.	.	145	145	.	-6.160	23.278	-0.538	1.00	50.00	.
ATOM	1070	CA	CA	.	PHE	PHE	.	.	145	145	.	-5.501	24.387	-1.231	1.00	50.00	.
ATOM	1071	C	C	.	PHE	PHE	.	.	145	145	.	-4.773	25.288	-0.235	1.00	50.00	.
ATOM	1072	O	O	.	PHE	PHE	.	.	145	145	.	-5.290	25.566	0.851	1.00	50.00	.
ATOM	1073	CB	CB	.	PHE	PHE	.	.	145	145	.	-6.566	25.199	-1.937	1.00	50.00	.
ATOM	1074	CG	CG	.	PHE	PHE	.	.	145	145	.	-7.255	24.436	-3.069	1.00	50.00	.
ATOM	1075	CD1	CD1	.	PHE	PHE	.	.	145	145	.	-6.683	24.386	-4.333	1.00	50.00	.
ATOM	1076	CD2	CD2	.	PHE	PHE	.	.	145	145	.	-8.478	23.821	-2.830	1.00	50.00	.
ATOM	1077	CE1	CE1	.	PHE	PHE	.	.	145	145	.	-7.348	23.695	-5.334	1.00	50.00	.
ATOM	1078	CE2	CE2	.	PHE	PHE	.	.	145	145	.	-9.128	23.130	-3.843	1.00	50.00	.
ATOM	1079	CZ	CZ	.	PHE	PHE	.	.	145	145	.	-8.556	23.060	-5.103	1.00	50.00	.
ATOM	1080	N	N	.	LEU	LEU	.	.	146	146	.	-3.567	25.676	-0.636	1.00	50.00	.
ATOM	1081	CA	CA	.	LEU	LEU	.	.	146	146	.	-2.770	26.677	0.089	1.00	50.00	.
ATOM	1082	C	C	.	LEU	LEU	.	.	146	146	.	-3.512	28.018	0.024	1.00	50.00	.
ATOM	1083	O	O	.	LEU	LEU	.	.	146	146	.	-3.714	28.572	-1.055	1.00	50.00	.
ATOM	1084	CB	CB	.	LEU	LEU	.	.	146	146	.	-1.390	26.812	-0.565	1.00	50.00	.
ATOM	1085	CG	CG	.	LEU	LEU	.	.	146	146	.	-0.462	27.740	0.225	1.00	50.00	.
ATOM	1086	CD1	CD1	.	LEU	LEU	.	.	146	146	.	-0.088	27.103	1.563	1.00	50.00	.
ATOM	1087	CD2	CD2	.	LEU	LEU	.	.	146	146	.	0.795	28.056	-0.585	1.00	50.00	.
ATOM	1088	N	N	.	SER	SER	.	.	147	147	.	-3.908	28.499	1.194	1.00	50.00	.
ATOM	1089	CA	CA	.	SER	SER	.	.	147	147	.	-4.769	29.693	1.283	1.00	50.00	.
ATOM	1090	C	C	.	SER	SER	.	.	147	147	.	-4.487	30.456	2.573	1.00	50.00	.
ATOM	1091	O	O	.	SER	SER	.	.	147	147	.	-4.046	29.875	3.565	1.00	50.00	.
ATOM	1092	CB	CB	.	SER	SER	.	.	147	147	.	-6.249	29.287	1.282	1.00	50.00	.
ATOM	1093	OG	OG	.	SER	SER	.	.	147	147	.	-6.575	28.541	0.104	1.00	50.00	.
ATOM	1094	N	N	.	VAL	VAL	.	.	148	148	.	-4.606	31.773	2.493	1.00	50.00	.
ATOM	1095	CA	CA	.	VAL	VAL	.	.	148	148	.	-4.622	32.597	3.718	1.00	50.00	.
ATOM	1096	C	C	.	VAL	VAL	.	.	148	148	.	-6.026	32.485	4.330	1.00	50.00	.
ATOM	1097	O	O	.	VAL	VAL	.	.	148	148	.	-7.004	32.246	3.636	1.00	50.00	.
ATOM	1098	CB	CB	.	VAL	VAL	.	.	148	148	.	-4.090	34.030	3.474	1.00	50.00	.
ATOM	1099	CG1	CG1	.	VAL	VAL	.	.	148	148	.	-4.771	34.776	2.340	1.00	50.00	.
ATOM	1100	CG2	CG2	.	VAL	VAL	.	.	148	148	.	-4.166	34.909	4.722	1.00	50.00	.
ATOM	1101	N	N	.	THR	THR	.	.	149	149	.	-6.062	32.305	5.637	1.00	50.00	.
ATOM	1102	CA	CA	.	THR	THR	.	.	149	149	.	-7.358	32.143	6.340	1.00	50.00	.
ATOM	1103	C	C	.	THR	THR	.	.	149	149	.	-8.203	33.422	6.280	1.00	50.00	.
ATOM	1104	O	O	.	THR	THR	.	.	149	149	.	-9.421	33.392	6.434	1.00	50.00	.
ATOM	1105	CB	CB	.	THR	THR	.	.	149	149	.	-7.159	31.793	7.811	1.00	50.00	.
ATOM	1106	OG1	OG1	.	THR	THR	.	.	149	149	.	-6.453	32.856	8.437	1.00	50.00	.
ATOM	1107	CG2	CG2	.	THR	THR	.	.	149	149	.	-6.331	30.536	7.995	1.00	50.00	.
ATOM	1108	N	N	.	GLY	GLY	.	.	150	150	.	-7.446	34.523	6.331	1.00	50.00	.
ATOM	1109	CA	CA	.	GLY	GLY	.	.	150	150	.	-7.994	35.873	6.535	1.00	50.00	.
ATOM	1110	C	C	.	GLY	GLY	.	.	150	150	.	-7.703	36.399	7.938	1.00	50.00	.
ATOM	1111	O	O	.	GLY	GLY	.	.	150	150	.	-7.921	37.570	8.229	1.00	50.00	.
ATOM	1112	N	N	.	GLU	GLU	.	.	151	151	.	-7.201	35.505	8.777	1.00	50.00	.
ATOM	1113	CA	CA	.	GLU	GLU	.	.	151	151	.	-6.802	35.826	10.144	1.00	50.00	.

ATOM	1114	C	C	.	GLU	GLU	.	.	151	151	.	-5.319	36.199	10.185	1.00	50.00	.
ATOM	1115	O	O	.	GLU	GLU	.	.	151	151	.	-4.512	35.789	9.346	1.00	50.00	.
ATOM	1116	CB	CB	.	GLU	GLU	.	.	151	151	.	-7.106	34.600	10.992	1.00	50.00	.
ATOM	1117	CG	CG	.	GLU	GLU	.	.	151	151	.	-6.789	34.817	12.471	1.00	50.00	.
ATOM	1118	CD	CD	.	GLU	GLU	.	.	151	151	.	-7.335	33.688	13.330	1.00	50.00	.
ATOM	1119	OE1	OE1	.	GLU	GLU	.	.	151	151	.	-7.602	32.602	12.766	1.00	50.00	.
ATOM	1120	OE2	OE2	.	GLU	GLU	.	.	151	151	.	-7.418	33.930	14.552	1.00	50.00	.
ATOM	1121	N	N	.	GLN	GLN	.	.	152	152	.	-5.030	37.030	11.172	1.00	50.00	.
ATOM	1122	CA	CA	.	GLN	GLN	.	.	152	152	.	-3.670	37.506	11.455	1.00	50.00	.
ATOM	1123	C	C	.	GLN	GLN	.	.	152	152	.	-3.259	37.078	12.864	1.00	50.00	.
ATOM	1124	O	O	.	GLN	GLN	.	.	152	152	.	-4.095	36.903	13.750	1.00	50.00	.
ATOM	1125	CB	CB	.	GLN	GLN	.	.	152	152	.	-3.621	39.030	11.376	1.00	50.00	.
ATOM	1126	CG	CG	.	GLN	GLN	.	.	152	152	.	-3.960	39.540	9.976	1.00	50.00	.
ATOM	1127	CD	CD	.	GLN	GLN	.	.	152	152	.	-3.802	41.056	9.868	1.00	50.00	.
ATOM	1128	OE1	OE1	.	GLN	GLN	.	.	152	152	.	-2.963	41.686	10.494	1.00	50.00	.
ATOM	1129	NE2	NE2	.	GLN	GLN	.	.	152	152	.	-4.627	41.664	9.045	1.00	50.00	.
ATOM	1130	N	N	.	TYR	TYR	.	.	153	153	.	-1.959	36.891	13.014	1.00	50.00	.
ATOM	1131	CA	CA	.	TYR	TYR	.	.	153	153	.	-1.351	36.536	14.304	1.00	50.00	.
ATOM	1132	C	C	.	TYR	TYR	.	.	153	153	.	-1.012	37.793	15.110	1.00	50.00	.
ATOM	1133	O	O	.	TYR	TYR	.	.	153	153	.	-0.914	38.900	14.572	1.00	50.00	.
ATOM	1134	CB	CB	.	TYR	TYR	.	.	153	153	.	-0.081	35.715	14.075	1.00	50.00	.
ATOM	1135	CG	CG	.	TYR	TYR	.	.	153	153	.	-0.377	34.364	13.424	1.00	50.00	.
ATOM	1136	CD1	CD1	.	TYR	TYR	.	.	153	153	.	-0.723	33.268	14.204	1.00	50.00	.
ATOM	1137	CD2	CD2	.	TYR	TYR	.	.	153	153	.	-0.243	34.221	12.051	1.00	50.00	.
ATOM	1138	CE1	CE1	.	TYR	TYR	.	.	153	153	.	-0.935	32.034	13.607	1.00	50.00	.
ATOM	1139	CE2	CE2	.	TYR	TYR	.	.	153	153	.	-0.454	32.993	11.455	1.00	50.00	.
ATOM	1140	CZ	CZ	.	TYR	TYR	.	.	153	153	.	-0.803	31.902	12.233	1.00	50.00	.
ATOM	1141	OH	OH	.	TYR	TYR	.	.	153	153	.	-1.029	30.707	11.642	1.00	50.00	.
ATOM	1142	N	N	.	GLY	GLY	.	.	154	154	.	-0.913	37.575	16.424	1.00	50.00	.
ATOM	1143	CA	CA	.	GLY	GLY	.	.	154	154	.	-0.404	38.609	17.343	1.00	50.00	.
ATOM	1144	C	C	.	GLY	GLY	.	.	154	154	.	1.099	38.374	17.538	1.00	50.00	.
ATOM	1145	O	O	.	GLY	GLY	.	.	154	154	.	1.738	37.627	16.792	1.00	50.00	.
ATOM	1146	N	N	.	SER	SER	.	.	155	155	.	1.632	38.930	18.619	1.00	50.00	.
ATOM	1147	CA	CA	.	SER	SER	.	.	155	155	.	3.034	38.670	19.007	1.00	50.00	.
ATOM	1148	C	C	.	SER	SER	.	.	155	155	.	3.263	37.155	19.221	1.00	50.00	.
ATOM	1149	O	O	.	SER	SER	.	.	155	155	.	2.302	36.424	19.472	1.00	50.00	.
ATOM	1150	CB	CB	.	SER	SER	.	.	155	155	.	3.395	39.449	20.276	1.00	50.00	.
ATOM	1151	OG	OG	.	SER	SER	.	.	155	155	.	2.562	39.023	21.353	1.00	50.00	.
ATOM	1152	N	N	.	PRO	PRO	.	.	156	156	.	4.496	36.681	18.989	1.00	50.00	.
ATOM	1153	CA	CA	.	PRO	PRO	.	.	156	156	.	5.679	37.480	18.598	1.00	50.00	.
ATOM	1154	C	C	.	PRO	PRO	.	.	156	156	.	5.804	37.729	17.083	1.00	50.00	.
ATOM	1155	O	O	.	PRO	PRO	.	.	156	156	.	6.854	38.151	16.605	1.00	50.00	.
ATOM	1156	CB	CB	.	PRO	PRO	.	.	156	156	.	6.838	36.640	19.131	1.00	50.00	.
ATOM	1157	CG	CG	.	PRO	PRO	.	.	156	156	.	6.362	35.211	18.866	1.00	50.00	.
ATOM	1158	CD	CD	.	PRO	PRO	.	.	156	156	.	4.869	35.269	19.197	1.00	50.00	.
ATOM	1159	N	N	.	ILE	ILE	.	.	157	157	.	4.717	37.488	16.353	1.00	50.00	.
ATOM	1160	CA	CA	.	ILE	ILE	.	.	157	157	.	4.642	37.656	14.886	1.00	50.00	.
ATOM	1161	C	C	.	ILE	ILE	.	.	157	157	.	3.441	38.514	14.475	1.00	50.00	.
ATOM	1162	O	O	.	ILE	ILE	.	.	157	157	.	2.679	38.188	13.563	1.00	50.00	.
ATOM	1163	CB	CB	.	ILE	ILE	.	.	157	157	.	4.592	36.298	14.173	1.00	50.00	.
ATOM	1164	CG1	CG1	.	ILE	ILE	.	.	157	157	.	3.513	35.351	14.730	1.00	50.00	.
ATOM	1165	CG2	CG2	.	ILE	ILE	.	.	157	157	.	5.995	35.717	14.207	1.00	50.00	.
ATOM	1166	CD1	CD1	.	ILE	ILE	.	.	157	157	.	3.357	34.039	13.952	1.00	50.00	.
ATOM	1167	N	N	.	ARG	ARG	.	.	158	158	.	3.294	39.619	15.194	1.00	50.00	.
ATOM	1168	CA	CA	.	ARG	ARG	.	.	158	158	.	2.132	40.507	15.031	1.00	50.00	.
ATOM	1169	C	C	.	ARG	ARG	.	.	158	158	.	1.984	40.973	13.577	1.00	50.00	.
ATOM	1170	O	O	.	ARG	ARG	.	.	158	158	.	2.956	41.388	12.947	1.00	50.00	.

ATOM	1171	CB	CB	.	ARG	ARG	.	.	158	158	.	2.309	41.712	15.951	1.00	50.00	.
ATOM	1172	CG	CG	.	ARG	ARG	.	.	158	158	.	1.142	42.696	15.823	1.00	50.00	.
ATOM	1173	CD	CD	.	ARG	ARG	.	.	158	158	.	1.387	43.937	16.676	1.00	50.00	.
ATOM	1174	NE	NE	.	ARG	ARG	.	.	158	158	.	1.368	43.552	18.098	1.00	50.00	.
ATOM	1175	CZ	CZ	.	ARG	ARG	.	.	158	158	.	0.278	43.373	18.849	1.00	50.00	.
ATOM	1176	NH1	NH1	.	ARG	ARG	.	.	158	158	.	-0.940	43.547	18.349	1.00	50.00	.
ATOM	1177	NH2	NH2	.	ARG	ARG	.	.	158	158	.	0.403	43.015	20.117	1.00	50.00	.
ATOM	1178	N	N	.	GLY	GLY	.	.	159	159	.	0.739	40.864	13.105	1.00	50.00	.
ATOM	1179	CA	CA	.	GLY	GLY	.	.	159	159	.	0.368	41.350	11.763	1.00	50.00	.
ATOM	1180	C	C	.	GLY	GLY	.	.	159	159	.	0.508	40.298	10.653	1.00	50.00	.
ATOM	1181	O	O	.	GLY	GLY	.	.	159	159	.	-0.024	40.480	9.560	1.00	50.00	.
ATOM	1182	N	N	.	GLN	GLN	.	.	160	160	.	1.249	39.225	10.923	1.00	50.00	.
ATOM	1183	CA	CA	.	GLN	GLN	.	.	160	160	.	1.472	38.170	9.917	1.00	50.00	.
ATOM	1184	C	C	.	GLN	GLN	.	.	160	160	.	0.187	37.366	9.706	1.00	50.00	.
ATOM	1185	O	O	.	GLN	GLN	.	.	160	160	.	-0.543	37.075	10.652	1.00	50.00	.
ATOM	1186	CB	CB	.	GLN	GLN	.	.	160	160	.	2.621	37.257	10.340	1.00	50.00	.
ATOM	1187	CG	CG	.	GLN	GLN	.	.	160	160	.	3.930	38.048	10.417	1.00	50.00	.
ATOM	1188	CD	CD	.	GLN	GLN	.	.	160	160	.	5.132	37.146	10.692	1.00	50.00	.
ATOM	1189	OE1	OE1	.	GLN	GLN	.	.	160	160	.	5.201	35.998	10.274	1.00	50.00	.
ATOM	1190	NE2	NE2	.	GLN	GLN	.	.	160	160	.	6.112	37.689	11.378	1.00	50.00	.
ATOM	1191	N	N	.	HIS	HIS	.	.	161	161	.	-0.096	37.070	8.447	1.00	50.00	.
ATOM	1192	CA	CA	.	HIS	HIS	.	.	161	161	.	-1.323	36.350	8.070	1.00	50.00	.
ATOM	1193	C	C	.	HIS	HIS	.	.	161	161	.	-1.176	34.841	8.248	1.00	50.00	.
ATOM	1194	O	O	.	HIS	HIS	.	.	161	161	.	-0.136	34.253	7.950	1.00	50.00	.
ATOM	1195	CB	CB	.	HIS	HIS	.	.	161	161	.	-1.699	36.663	6.624	1.00	50.00	.
ATOM	1196	CG	CG	.	HIS	HIS	.	.	161	161	.	-2.151	38.114	6.475	1.00	50.00	.
ATOM	1197	ND1	ND1	.	HIS	HIS	.	.	161	161	.	-3.295	38.625	6.915	1.00	50.00	.
ATOM	1198	CD2	CD2	.	HIS	HIS	.	.	161	161	.	-1.521	39.060	5.791	1.00	50.00	.
ATOM	1199	CE1	CE1	.	HIS	HIS	.	.	161	161	.	-3.368	39.883	6.489	1.00	50.00	.
ATOM	1200	NE2	NE2	.	HIS	HIS	.	.	161	161	.	-2.274	40.153	5.787	1.00	50.00	.
ATOM	1201	N	N	.	GLU	GLU	.	.	162	162	.	-2.251	34.242	8.739	1.00	50.00	.
ATOM	1202	CA	CA	.	GLU	GLU	.	.	162	162	.	-2.336	32.782	8.852	1.00	50.00	.
ATOM	1203	C	C	.	GLU	GLU	.	.	162	162	.	-2.446	32.139	7.469	1.00	50.00	.
ATOM	1204	O	O	.	GLU	GLU	.	.	162	162	.	-3.331	32.488	6.687	1.00	50.00	.
ATOM	1205	CB	CB	.	GLU	GLU	.	.	162	162	.	-3.525	32.429	9.733	1.00	50.00	.
ATOM	1206	CG	CG	.	GLU	GLU	.	.	162	162	.	-3.620	30.922	9.971	1.00	50.00	.
ATOM	1207	CD	CD	.	GLU	GLU	.	.	162	162	.	-4.862	30.583	10.786	1.00	50.00	.
ATOM	1208	OE1	OE1	.	GLU	GLU	.	.	162	162	.	-5.828	31.368	10.778	1.00	50.00	.
ATOM	1209	OE2	OE2	.	GLU	GLU	.	.	162	162	.	-4.817	29.534	11.450	1.00	50.00	.
ATOM	1210	N	N	.	VAL	VAL	.	.	163	163	.	-1.641	31.099	7.303	1.00	50.00	.
ATOM	1211	CA	CA	.	VAL	VAL	.	.	163	163	.	-1.651	30.273	6.086	1.00	50.00	.
ATOM	1212	C	C	.	VAL	VAL	.	.	163	163	.	-2.159	28.887	6.495	1.00	50.00	.
ATOM	1213	O	O	.	VAL	VAL	.	.	163	163	.	-1.678	28.281	7.451	1.00	50.00	.
ATOM	1214	CB	CB	.	VAL	VAL	.	.	163	163	.	-0.234	30.187	5.496	1.00	50.00	.
ATOM	1215	CG1	CG1	.	VAL	VAL	.	.	163	163	.	-0.201	29.299	4.254	1.00	50.00	.
ATOM	1216	CG2	CG2	.	VAL	VAL	.	.	163	163	.	0.279	31.567	5.081	1.00	50.00	.
ATOM	1217	N	N	.	HIS	HIS	.	.	164	164	.	-3.175	28.447	5.776	1.00	50.00	.
ATOM	1218	CA	CA	.	HIS	HIS	.	.	164	164	.	-3.798	27.147	6.045	1.00	50.00	.
ATOM	1219	C	C	.	HIS	HIS	.	.	164	164	.	-4.044	26.378	4.739	1.00	50.00	.
ATOM	1220	O	O	.	HIS	HIS	.	.	164	164	.	-3.843	26.879	3.632	1.00	50.00	.
ATOM	1221	CB	CB	.	HIS	HIS	.	.	164	164	.	-5.122	27.401	6.768	1.00	50.00	.
ATOM	1222	CG	CG	.	HIS	HIS	.	.	164	164	.	-6.158	27.948	5.776	1.00	50.00	.
ATOM	1223	ND1	ND1	.	HIS	HIS	.	.	164	164	.	-7.204	27.312	5.296	1.00	50.00	.
ATOM	1224	CD2	CD2	.	HIS	HIS	.	.	164	164	.	-6.212	29.170	5.283	1.00	50.00	.
ATOM	1225	CE1	CE1	.	HIS	HIS	.	.	164	164	.	-7.959	28.200	4.655	1.00	50.00	.
ATOM	1226	NE2	NE2	.	HIS	HIS	.	.	164	164	.	-7.349	29.365	4.648	1.00	50.00	.
ATOM	1227	N	N	.	GLY	GLY	.	.	165	165	.	-4.720	25.256	4.958	1.00	50.00	.

ATOM	1228	CA	CA	.	GLY	GLY	.	.	165	165	.	-5.265	24.450	3.875	1.00	50.00	.
ATOM	1229	C	C	.	GLY	GLY	.	.	165	165	.	-6.785	24.490	3.992	1.00	50.00	.
ATOM	1230	O	O	.	GLY	GLY	.	.	165	165	.	-7.368	23.985	4.958	1.00	50.00	.
ATOM	1231	N	N	.	MET	MET	.	.	166	166	.	-7.401	24.980	2.923	1.00	50.00	.
ATOM	1232	CA	CA	.	MET	MET	.	.	166	166	.	-8.867	24.990	2.784	1.00	50.00	.
ATOM	1233	C	C	.	MET	MET	.	.	166	166	.	-9.324	23.855	1.845	1.00	50.00	.
ATOM	1234	O	O	.	MET	MET	.	.	166	166	.	-8.708	23.663	0.793	1.00	50.00	.
ATOM	1235	CB	CB	.	MET	MET	.	.	166	166	.	-9.302	26.349	2.224	1.00	50.00	.
ATOM	1236	CG	CG	.	MET	MET	.	.	166	166	.	-10.822	26.554	2.175	1.00	50.00	.
ATOM	1237	SD	SD	.	MET	MET	.	.	166	166	.	-11.741	26.565	3.754	1.00	50.00	.
ATOM	1238	CE	CE	.	MET	MET	.	.	166	166	.	-11.369	28.219	4.290	1.00	50.00	.
ATOM	1239	N	N	.	PRO	PRO	.	.	167	167	.	-10.403	23.141	2.211	1.00	50.00	.
ATOM	1240	CA	CA	.	PRO	PRO	.	.	167	167	.	-11.009	22.095	1.365	1.00	50.00	.
ATOM	1241	C	C	.	PRO	PRO	.	.	167	167	.	-11.469	22.636	0.002	1.00	50.00	.
ATOM	1242	O	O	.	PRO	PRO	.	.	167	167	.	-11.404	21.937	-1.003	1.00	50.00	.
ATOM	1243	CB	CB	.	PRO	PRO	.	.	167	167	.	-12.187	21.560	2.188	1.00	50.00	.
ATOM	1244	CG	CG	.	PRO	PRO	.	.	167	167	.	-12.561	22.734	3.091	1.00	50.00	.
ATOM	1245	CD	CD	.	PRO	PRO	.	.	167	167	.	-11.185	23.286	3.457	1.00	50.00	.
ATOM	1246	N	N	.	SER	SER	.	.	168	168	.	-11.931	23.884	-0.009	1.00	50.00	.
ATOM	1247	CA	CA	.	SER	SER	.	.	168	168	.	-12.390	24.563	-1.236	1.00	50.00	.
ATOM	1248	C	C	.	SER	SER	.	.	168	168	.	-11.559	25.815	-1.538	1.00	50.00	.
ATOM	1249	O	O	.	SER	SER	.	.	168	168	.	-10.851	26.343	-0.686	1.00	50.00	.
ATOM	1250	CB	CB	.	SER	SER	.	.	168	168	.	-13.867	24.938	-1.093	1.00	50.00	.
ATOM	1251	OG	OG	.	SER	SER	.	.	168	168	.	-14.629	23.743	-0.904	1.00	50.00	.
ATOM	1252	N	N	.	ALA	ALA	.	.	169	169	.	-11.548	26.206	-2.805	1.00	50.00	.
ATOM	1253	CA	CA	.	ALA	ALA	.	.	169	169	.	-10.868	27.441	-3.239	1.00	50.00	.
ATOM	1254	C	C	.	ALA	ALA	.	.	169	169	.	-11.591	28.671	-2.668	1.00	50.00	.
ATOM	1255	O	O	.	ALA	ALA	.	.	169	169	.	-12.813	28.778	-2.747	1.00	50.00	.
ATOM	1256	CB	CB	.	ALA	ALA	.	.	169	169	.	-10.851	27.498	-4.767	1.00	50.00	.
ATOM	1257	N	N	.	ASN	ASN	.	.	170	170	.	-10.816	29.532	-2.020	1.00	50.00	.
ATOM	1258	CA	CA	.	ASN	ASN	.	.	170	170	.	-11.350	30.773	-1.429	1.00	50.00	.
ATOM	1259	C	C	.	ASN	ASN	.	.	170	170	.	-10.729	32.003	-2.118	1.00	50.00	.
ATOM	1260	O	O	.	ASN	ASN	.	.	170	170	.	-9.816	31.878	-2.937	1.00	50.00	.
ATOM	1261	CB	CB	.	ASN	ASN	.	.	170	170	.	-11.094	30.728	0.089	1.00	50.00	.
ATOM	1262	CG	CG	.	ASN	ASN	.	.	170	170	.	-11.735	31.908	0.830	1.00	50.00	.
ATOM	1263	OD1	OD1	.	ASN	ASN	.	.	170	170	.	-12.892	32.251	0.638	1.00	50.00	.
ATOM	1264	ND2	ND2	.	ASN	ASN	.	.	170	170	.	-10.902	32.721	1.438	1.00	50.00	.
ATOM	1265	N	N	.	THR	THR	.	.	171	171	.	-11.086	33.179	-1.613	1.00	50.00	.
ATOM	1266	CA	CA	.	THR	THR	.	.	171	171	.	-10.538	34.481	-2.059	1.00	50.00	.
ATOM	1267	C	C	.	THR	THR	.	.	171	171	.	-9.063	34.664	-1.659	1.00	50.00	.
ATOM	1268	O	O	.	THR	THR	.	.	171	171	.	-8.401	35.642	-1.998	1.00	50.00	.
ATOM	1269	CB	CB	.	THR	THR	.	.	171	171	.	-11.367	35.635	-1.477	1.00	50.00	.
ATOM	1270	OG1	OG1	.	THR	THR	.	.	171	171	.	-11.331	35.598	-0.046	1.00	50.00	.
ATOM	1271	CG2	CG2	.	THR	THR	.	.	171	171	.	-12.816	35.580	-1.971	1.00	50.00	.
ATOM	1272	N	N	.	HIS	HIS	.	.	172	172	.	-8.560	33.664	-0.948	1.00	50.00	.
ATOM	1273	CA	CA	.	HIS	HIS	.	.	172	172	.	-7.216	33.640	-0.374	1.00	50.00	.
ATOM	1274	C	C	.	HIS	HIS	.	.	172	172	.	-6.327	32.535	-0.954	1.00	50.00	.
ATOM	1275	O	O	.	HIS	HIS	.	.	172	172	.	-5.185	32.374	-0.525	1.00	50.00	.
ATOM	1276	CB	CB	.	HIS	HIS	.	.	172	172	.	-7.504	33.384	1.095	1.00	50.00	.
ATOM	1277	CG	CG	.	HIS	HIS	.	.	172	172	.	-8.083	34.584	1.860	1.00	50.00	.
ATOM	1278	ND1	ND1	.	HIS	HIS	.	.	172	172	.	-8.300	34.640	3.170	1.00	50.00	.
ATOM	1279	CD2	CD2	.	HIS	HIS	.	.	172	172	.	-8.530	35.729	1.354	1.00	50.00	.
ATOM	1280	CE1	CE1	.	HIS	HIS	.	.	172	172	.	-8.880	35.796	3.448	1.00	50.00	.
ATOM	1281	NE2	NE2	.	HIS	HIS	.	.	172	172	.	-9.020	36.478	2.327	1.00	50.00	.
ATOM	1282	N	N	.	ASN	ASN	.	.	173	173	.	-6.844	31.873	-1.986	1.00	50.00	.
ATOM	1283	CA	CA	.	ASN	ASN	.	.	173	173	.	-6.150	30.747	-2.631	1.00	50.00	.
ATOM	1284	C	C	.	ASN	ASN	.	.	173	173	.	-5.264	31.175	-3.811	1.00	50.00	.

ATOM	1285	O	O	.	ASN	ASN	.	.	173	173	.	-4.317	30.487	-4.184	1.00	50.00	.
ATOM	1286	CB	CB	.	ASN	ASN	.	.	173	173	.	-7.187	29.719	-3.082	1.00	50.00	.
ATOM	1287	CG	CG	.	ASN	ASN	.	.	173	173	.	-6.572	28.415	-3.559	1.00	50.00	.
ATOM	1288	OD1	OD1	.	ASN	ASN	.	.	173	173	.	-5.391	28.246	-3.919	1.00	50.00	.
ATOM	1289	ND2	ND2	.	ASN	ASN	.	.	173	173	.	-7.345	27.392	-3.657	1.00	50.00	.
ATOM	1290	N	N	.	THR	THR	.	.	174	174	.	-5.518	32.341	-4.384	1.00	50.00	.
ATOM	1291	CA	CA	.	THR	THR	.	.	174	174	.	-4.762	32.753	-5.578	1.00	50.00	.
ATOM	1292	C	C	.	THR	THR	.	.	174	174	.	-3.397	33.328	-5.168	1.00	50.00	.
ATOM	1293	O	O	.	THR	THR	.	.	174	174	.	-3.308	34.249	-4.350	1.00	50.00	.
ATOM	1294	CB	CB	.	THR	THR	.	.	174	174	.	-5.585	33.739	-6.415	1.00	50.00	.
ATOM	1295	OG1	OG1	.	THR	THR	.	.	174	174	.	-6.893	33.221	-6.651	1.00	50.00	.
ATOM	1296	CG2	CG2	.	THR	THR	.	.	174	174	.	-4.951	33.967	-7.782	1.00	50.00	.
ATOM	1297	N	N	.	TRP	TRP	.	.	175	175	.	-2.363	32.791	-5.806	1.00	50.00	.
ATOM	1298	CA	CA	.	TRP	TRP	.	.	175	175	.	-0.967	33.220	-5.604	1.00	50.00	.
ATOM	1299	C	C	.	TRP	TRP	.	.	175	175	.	-0.329	33.643	-6.931	1.00	50.00	.
ATOM	1300	O	O	.	TRP	TRP	.	.	175	175	.	-0.800	33.298	-8.015	1.00	50.00	.
ATOM	1301	CB	CB	.	TRP	TRP	.	.	175	175	.	-0.130	32.093	-4.992	1.00	50.00	.
ATOM	1302	CG	CG	.	TRP	TRP	.	.	175	175	.	-0.675	31.639	-3.639	1.00	50.00	.
ATOM	1303	CD1	CD1	.	TRP	TRP	.	.	175	175	.	-1.555	30.660	-3.462	1.00	50.00	.
ATOM	1304	CD2	CD2	.	TRP	TRP	.	.	175	175	.	-0.331	32.119	-2.386	1.00	50.00	.
ATOM	1305	NE1	NE1	.	TRP	TRP	.	.	175	175	.	-1.788	30.493	-2.162	1.00	50.00	.
ATOM	1306	CE2	CE2	.	TRP	TRP	.	.	175	175	.	-1.049	31.362	-1.473	1.00	50.00	.
ATOM	1307	CE3	CE3	.	TRP	TRP	.	.	175	175	.	0.543	33.107	-1.952	1.00	50.00	.
ATOM	1308	CZ2	CZ2	.	TRP	TRP	.	.	175	175	.	-0.887	31.587	-0.112	1.00	50.00	.
ATOM	1309	CZ3	CZ3	.	TRP	TRP	.	.	175	175	.	0.703	33.335	-0.591	1.00	50.00	.
ATOM	1310	CH2	CH2	.	TRP	TRP	.	.	175	175	.	-0.013	32.576	0.328	1.00	50.00	.
ATOM	1311	N	N	.	LYS	LYS	.	.	176	176	.	0.684	34.482	-6.790	1.00	50.00	.
ATOM	1312	CA	CA	.	LYS	LYS	.	.	176	176	.	1.491	35.016	-7.894	1.00	50.00	.
ATOM	1313	C	C	.	LYS	LYS	.	.	176	176	.	2.972	34.877	-7.520	1.00	50.00	.
ATOM	1314	O	O	.	LYS	LYS	.	.	176	176	.	3.366	35.117	-6.379	1.00	50.00	.
ATOM	1315	CB	CB	.	LYS	LYS	.	.	176	176	.	1.099	36.483	-8.069	1.00	50.00	.
ATOM	1316	CG	CG	.	LYS	LYS	.	.	176	176	.	1.930	37.239	-9.115	1.00	50.00	.
ATOM	1317	CD	CD	.	LYS	LYS	.	.	176	176	.	1.653	38.744	-9.072	1.00	50.00	.
ATOM	1318	CE	CE	.	LYS	LYS	.	.	176	176	.	1.960	39.332	-7.691	1.00	50.00	.
ATOM	1319	NZ	NZ	.	LYS	LYS	.	.	176	176	.	1.674	40.767	-7.638	1.00	50.00	.
ATOM	1320	N	N	.	ALA	ALA	.	.	177	177	.	3.768	34.516	-8.516	1.00	50.00	.
ATOM	1321	CA	CA	.	ALA	ALA	.	.	177	177	.	5.224	34.379	-8.345	1.00	50.00	.
ATOM	1322	C	C	.	ALA	ALA	.	.	177	177	.	5.945	35.680	-8.720	1.00	50.00	.
ATOM	1323	O	O	.	ALA	ALA	.	.	177	177	.	5.480	36.466	-9.544	1.00	50.00	.
ATOM	1324	CB	CB	.	ALA	ALA	.	.	177	177	.	5.733	33.223	-9.208	1.00	50.00	.
ATOM	1325	N	N	.	MET	MET	.	.	178	178	.	7.057	35.902	-8.033	1.00	50.00	.
ATOM	1326	CA	CA	.	MET	MET	.	.	178	178	.	7.941	37.056	-8.273	1.00	50.00	.
ATOM	1327	C	C	.	MET	MET	.	.	178	178	.	9.388	36.638	-7.986	1.00	50.00	.
ATOM	1328	O	O	.	MET	MET	.	.	178	178	.	9.656	35.872	-7.056	1.00	50.00	.
ATOM	1329	CB	CB	.	MET	MET	.	.	178	178	.	7.537	38.247	-7.388	1.00	50.00	.
ATOM	1330	CG	CG	.	MET	MET	.	.	178	178	.	7.749	37.945	-5.901	1.00	50.00	.
ATOM	1331	SD	SD	.	MET	MET	.	.	178	178	.	7.648	39.320	-4.701	1.00	50.00	.
ATOM	1332	CE	CE	.	MET	MET	.	.	178	178	.	8.694	40.566	-5.419	1.00	50.00	.
ATOM	1333	N	N	.	GLU	GLU	.	.	179	179	.	10.309	37.212	-8.746	1.00	50.00	.
ATOM	1334	CA	CA	.	GLU	GLU	.	.	179	179	.	11.738	36.949	-8.531	1.00	50.00	.
ATOM	1335	C	C	.	GLU	GLU	.	.	179	179	.	12.277	37.843	-7.413	1.00	50.00	.
ATOM	1336	O	O	.	GLU	GLU	.	.	179	179	.	12.454	39.048	-7.588	1.00	50.00	.
ATOM	1337	CB	CB	.	GLU	GLU	.	.	179	179	.	12.540	37.097	-9.829	1.00	50.00	.
ATOM	1338	CG	CG	.	GLU	GLU	.	.	179	179	.	14.046	36.954	-9.573	1.00	50.00	.
ATOM	1339	CD	CD	.	GLU	GLU	.	.	179	179	.	14.709	36.006	-10.564	1.00	50.00	.
ATOM	1340	OE1	OE1	.	GLU	GLU	.	.	179	179	.	14.992	36.476	-11.686	1.00	50.00	.
ATOM	1341	OE2	OE2	.	GLU	GLU	.	.	179	179	.	14.881	34.828	-10.183	1.00	50.00	.

ATOM	1342	N	N	.	GLY	GLY	.	.	180	180	.	12.509	37.176	-6.280	1.00	50.00	.
ATOM	1343	CA	CA	.	GLY	GLY	.	.	180	180	.	13.228	37.779	-5.153	1.00	50.00	.
ATOM	1344	C	C	.	GLY	GLY	.	.	180	180	.	14.616	38.215	-5.601	1.00	50.00	.
ATOM	1345	O	O	.	GLY	GLY	.	.	180	180	.	14.859	39.388	-5.874	1.00	50.00	.
ATOM	1346	N	N	.	ILE	ILE	.	.	181	181	.	15.452	37.189	-5.730	1.00	50.00	.
ATOM	1347	CA	CA	.	ILE	ILE	.	.	181	181	.	16.855	37.306	-6.194	1.00	50.00	.
ATOM	1348	C	C	.	ILE	ILE	.	.	181	181	.	17.297	35.968	-6.841	1.00	50.00	.
ATOM	1349	O	O	.	ILE	ILE	.	.	181	181	.	17.943	35.158	-6.138	1.00	50.00	.
ATOM	1350	CB	CB	.	ILE	ILE	.	.	181	181	.	17.804	37.728	-5.040	1.00	50.00	.
ATOM	1351	CG1	CG1	.	ILE	ILE	.	.	181	181	.	17.355	39.009	-4.310	1.00	50.00	.
ATOM	1352	CG2	CG2	.	ILE	ILE	.	.	181	181	.	19.221	37.946	-5.597	1.00	50.00	.
ATOM	1353	CD1	CD1	.	ILE	ILE	.	.	181	181	.	18.099	39.349	-3.013	1.00	50.00	.
ATOM	1354	OXT	OXT	.	ILE	ILE	.	.	181	181	.	16.896	35.748	-8.005	1.00	99.99	.
ATOM	1355	N	N	.	GLY	GLY	A	A	-1	-1	.	4.352	39.773	-22.016	1.00	70.16	.
ATOM	1356	CA	CA	.	GLY	GLY	A	A	-1	-1	.	4.332	38.478	-21.278	1.00	69.23	.
ATOM	1357	C	C	.	GLY	GLY	A	A	-1	-1	.	4.803	37.322	-22.139	1.00	71.79	.
ATOM	1358	O	O	.	GLY	GLY	A	A	-1	-1	.	4.031	36.415	-22.462	1.00	73.68	.
ATOM	1359	N	N	.	SER	SER	A	A	0	0	.	6.076	37.355	-22.519	1.00	68.23	.
ATOM	1360	CA	CA	.	SER	SER	A	A	0	0	.	6.649	36.302	-23.346	1.00	64.14	.
ATOM	1361	C	C	.	SER	SER	A	A	0	0	.	6.138	34.932	-22.906	1.00	67.09	.
ATOM	1362	O	O	.	SER	SER	A	A	0	0	.	6.129	34.610	-21.715	1.00	67.64	.
ATOM	1363	CB	CB	.	SER	SER	A	A	0	0	.	8.173	36.347	-23.261	1.00	50.31	.
ATOM	1364	OG	OG	.	SER	SER	A	A	0	0	.	8.749	35.245	-23.955	1.00	50.92	.
ATOM	1365	N	N	.	ASP	ASP	A	A	22	22	.	5.712	34.130	-23.876	1.00	68.26	.
ATOM	1366	CA	CA	.	ASP	ASP	A	A	22	22	.	5.174	32.800	-23.602	1.00	66.93	.
ATOM	1367	C	C	.	ASP	ASP	A	A	22	22	.	6.250	31.830	-23.126	1.00	63.29	.
ATOM	1368	O	O	.	ASP	ASP	A	A	22	22	.	6.002	30.630	-23.015	1.00	63.81	.
ATOM	1369	CB	CB	.	ASP	ASP	A	A	22	22	.	4.504	32.239	-24.862	1.00	71.28	.
ATOM	1370	CG	CG	.	ASP	ASP	A	A	22	22	.	3.741	33.300	-25.639	1.00	75.97	.
ATOM	1371	OD1	OD1	.	ASP	ASP	A	A	22	22	.	2.933	34.028	-25.021	1.00	80.52	.
ATOM	1372	OD2	OD2	.	ASP	ASP	A	A	22	22	.	3.947	33.403	-26.870	1.00	70.15	.
ATOM	1373	N	N	.	GLU	GLU	A	A	23	23	.	7.440	32.350	-22.844	1.00	59.67	.
ATOM	1374	CA	CA	.	GLU	GLU	A	A	23	23	.	8.542	31.514	-22.390	1.00	59.63	.
ATOM	1375	C	C	.	GLU	GLU	A	A	23	23	.	9.183	32.069	-21.118	1.00	56.26	.
ATOM	1376	O	O	.	GLU	GLU	A	A	23	23	.	10.366	31.858	-20.858	1.00	53.06	.
ATOM	1377	CB	CB	.	GLU	GLU	A	A	23	23	.	9.586	31.372	-23.510	1.00	65.14	.
ATOM	1378	CG	CG	.	GLU	GLU	A	A	23	23	.	10.675	30.342	-23.232	1.00	73.21	.
ATOM	1379	CD	CD	.	GLU	GLU	A	A	23	23	.	11.429	29.922	-24.483	1.00	82.25	.
ATOM	1380	OE1	OE1	.	GLU	GLU	A	A	23	23	.	12.382	29.120	-24.363	1.00	86.14	.
ATOM	1381	OE2	OE2	.	GLU	GLU	A	A	23	23	.	11.070	30.386	-25.587	1.00	85.38	.
ATOM	1382	N	N	.	ASP	ASP	A	A	24	24	.	8.388	32.783	-20.327	1.00	55.49	.
ATOM	1383	CA	CA	.	ASP	ASP	A	A	24	24	.	8.862	33.345	-19.066	1.00	55.29	.
ATOM	1384	C	C	.	ASP	ASP	A	A	24	24	.	8.437	32.382	-17.960	1.00	51.70	.
ATOM	1385	O	O	.	ASP	ASP	A	A	24	24	.	8.057	32.795	-16.863	1.00	53.18	.
ATOM	1386	CB	CB	.	ASP	ASP	A	A	24	24	.	8.244	34.731	-18.825	1.00	53.20	.
ATOM	1387	CG	CG	.	ASP	ASP	A	A	24	24	.	6.734	34.681	-18.600	1.00	63.37	.
ATOM	1388	OD1	OD1	.	ASP	ASP	A	A	24	24	.	6.129	35.757	-18.400	1.00	67.71	.
ATOM	1389	OD2	OD2	.	ASP	ASP	A	A	24	24	.	6.149	33.576	-18.621	1.00	66.79	.
ATOM	1390	N	N	.	PHE	PHE	A	A	25	25	.	8.509	31.090	-18.262	1.00	46.37	.
ATOM	1391	CA	CA	.	PHE	PHE	A	A	25	25	.	8.104	30.054	-17.322	1.00	43.02	.
ATOM	1392	C	C	.	PHE	PHE	A	A	25	25	.	8.962	29.901	-16.076	1.00	37.35	.
ATOM	1393	O	O	.	PHE	PHE	A	A	25	25	.	10.134	30.264	-16.053	1.00	34.94	.
ATOM	1394	CB	CB	.	PHE	PHE	A	A	25	25	.	8.004	28.704	-18.039	1.00	48.23	.
ATOM	1395	CG	CG	.	PHE	PHE	A	A	25	25	.	9.180	28.392	-18.916	1.00	50.75	.
ATOM	1396	CD1	CD1	.	PHE	PHE	A	A	25	25	.	10.451	28.238	-18.376	1.00	54.74	.
ATOM	1397	CD2	CD2	.	PHE	PHE	A	A	25	25	.	9.014	28.247	-20.288	1.00	55.97	.
ATOM	1398	CE1	CE1	.	PHE	PHE	A	A	25	25	.	11.546	27.942	-19.195	1.00	64.32	.

ATOM	1399	CE2	CE2	.	PHE	PHE	A	A	25	25	.	10.099	27.952	-21.113	1.00	60.96	.
ATOM	1400	CZ	CZ	.	PHE	PHE	A	A	25	25	.	11.368	27.799	-20.564	1.00	60.70	.
ATOM	1401	N	N	.	VAL	VAL	A	A	26	26	.	8.342	29.357	-15.034	1.00	35.80	.
ATOM	1402	CA	CA	.	VAL	VAL	A	A	26	26	.	9.001	29.114	-13.760	1.00	27.22	.
ATOM	1403	C	C	.	VAL	VAL	A	A	26	26	.	9.806	27.837	-13.934	1.00	30.24	.
ATOM	1404	O	O	.	VAL	VAL	A	A	26	26	.	9.303	26.855	-14.481	1.00	28.59	.
ATOM	1405	CB	CB	.	VAL	VAL	A	A	26	26	.	7.961	28.920	-12.643	1.00	29.39	.
ATOM	1406	CG1	CG1	.	VAL	VAL	A	A	26	26	.	8.657	28.697	-11.322	1.00	24.16	.
ATOM	1407	CG2	CG2	.	VAL	VAL	A	A	26	26	.	7.047	30.136	-12.573	1.00	28.87	.
ATOM	1408	N	N	.	THR	THR	A	A	27	27	.	11.048	27.845	-13.462	1.00	28.75	.
ATOM	1409	CA	CA	.	THR	THR	A	A	27	27	.	11.924	26.692	-13.627	1.00	27.43	.
ATOM	1410	C	C	.	THR	THR	A	A	27	27	.	12.291	25.947	-12.351	1.00	24.58	.
ATOM	1411	O	O	.	THR	THR	A	A	27	27	.	12.247	26.494	-11.248	1.00	0.00	.
ATOM	1412	CB	CB	.	THR	THR	A	A	27	27	.	13.221	27.110	-14.340	1.00	29.95	.
ATOM	1413	OG1	OG1	.	THR	THR	A	A	27	27	.	13.958	28.006	-13.500	1.00	34.53	.
ATOM	1414	CG2	CG2	.	THR	THR	A	A	27	27	.	12.897	27.816	-15.655	1.00	30.45	.
ATOM	1415	N	N	.	CYS	CYS	A	A	28	28	.	12.678	24.691	-12.520	1.00	18.60	.
ATOM	1416	CA	CA	.	CYS	CYS	A	A	28	28	.	13.041	23.850	-11.395	1.00	21.71	.
ATOM	1417	C	C	.	CYS	CYS	A	A	28	28	.	14.303	24.370	-10.707	1.00	0.00	.
ATOM	1418	O	O	.	CYS	CYS	A	A	28	28	.	15.269	24.735	-11.365	1.00	23.94	.
ATOM	1419	CB	CB	.	CYS	CYS	A	A	28	28	.	13.237	22.421	-11.884	1.00	25.22	.
ATOM	1420	SG	SG	.	CYS	CYS	A	A	28	28	.	12.735	21.174	-10.668	1.00	34.40	.
ATOM	1421	N	N	.	TYR	TYR	A	A	29	29	.	14.266	24.401	-9.379	1.00	18.10	.
ATOM	1422	CA	CA	.	TYR	TYR	A	A	29	29	.	15.354	24.896	-8.536	1.00	22.23	.
ATOM	1423	C	C	.	TYR	TYR	A	A	29	29	.	15.496	26.413	-8.554	1.00	23.58	.
ATOM	1424	O	O	.	TYR	TYR	A	A	29	29	.	16.460	26.960	-8.018	1.00	22.74	.
ATOM	1425	CB	CB	.	TYR	TYR	A	A	29	29	.	16.689	24.237	-8.902	1.00	24.02	.
ATOM	1426	CG	CG	.	TYR	TYR	A	A	29	29	.	16.721	22.772	-8.547	1.00	19.27	.
ATOM	1427	CD1	CD1	.	TYR	TYR	A	A	29	29	.	16.456	22.348	-7.246	1.00	19.92	.
ATOM	1428	CD2	CD2	.	TYR	TYR	A	A	29	29	.	16.975	21.808	-9.516	1.00	21.97	.
ATOM	1429	CE1	CE1	.	TYR	TYR	A	A	29	29	.	16.438	20.996	-6.922	1.00	29.97	.
ATOM	1430	CE2	CE2	.	TYR	TYR	A	A	29	29	.	16.960	20.459	-9.206	1.00	27.20	.
ATOM	1431	CZ	CZ	.	TYR	TYR	A	A	29	29	.	16.692	20.057	-7.910	1.00	27.70	.
ATOM	1432	OH	OH	.	TYR	TYR	A	A	29	29	.	16.678	18.717	-7.612	1.00	36.46	.
ATOM	1433	N	N	.	SER	SER	A	A	30	30	.	14.547	27.100	-9.178	1.00	23.89	.
ATOM	1434	CA	CA	.	SER	SER	A	A	30	30	.	14.603	28.554	-9.184	1.00	20.88	.
ATOM	1435	C	C	.	SER	SER	A	A	30	30	.	14.223	28.977	-7.762	1.00	26.23	.
ATOM	1436	O	O	.	SER	SER	A	A	30	30	.	13.589	28.212	-7.034	1.00	20.15	.
ATOM	1437	CB	CB	.	SER	SER	A	A	30	30	.	13.612	29.125	-10.204	1.00	32.39	.
ATOM	1438	OG	OG	.	SER	SER	A	A	30	30	.	12.296	28.675	-9.943	1.00	34.78	.
ATOM	1439	N	N	.	VAL	VAL	A	A	31	31	.	14.632	30.175	-7.357	1.00	20.82	.
ATOM	1440	CA	CA	.	VAL	VAL	A	A	31	31	.	14.320	30.683	-6.024	1.00	20.03	.
ATOM	1441	C	C	.	VAL	VAL	A	A	31	31	.	13.468	31.920	-6.213	1.00	22.76	.
ATOM	1442	O	O	.	VAL	VAL	A	A	31	31	.	13.848	32.824	-6.956	1.00	19.69	.
ATOM	1443	CB	CB	.	VAL	VAL	A	A	31	31	.	15.586	31.095	-5.248	1.00	18.30	.
ATOM	1444	CG1	CG1	.	VAL	VAL	A	A	31	31	.	15.198	31.706	-3.917	1.00	16.03	.
ATOM	1445	CG2	CG2	.	VAL	VAL	A	A	31	31	.	16.472	29.894	-5.021	1.00	17.26	.
ATOM	1446	N	N	.	LEU	LEU	A	A	32	32	.	12.329	31.973	-5.538	1.00	19.71	.
ATOM	1447	CA	CA	.	LEU	LEU	A	A	32	32	.	11.445	33.118	-5.691	1.00	25.12	.
ATOM	1448	C	C	.	LEU	LEU	A	A	32	32	.	10.511	33.343	-4.511	1.00	18.61	.
ATOM	1449	O	O	.	LEU	LEU	A	A	32	32	.	10.534	32.593	-3.537	1.00	17.80	.
ATOM	1450	CB	CB	.	LEU	LEU	A	A	32	32	.	10.644	32.946	-6.984	1.00	38.48	.
ATOM	1451	CG	CG	.	LEU	LEU	A	A	32	32	.	10.229	31.502	-7.265	1.00	38.83	.
ATOM	1452	CD1	CD1	.	LEU	LEU	A	A	32	32	.	9.129	31.120	-6.319	1.00	39.95	.
ATOM	1453	CD2	CD2	.	LEU	LEU	A	A	32	32	.	9.775	31.336	-8.701	1.00	44.74	.
ATOM	1454	N	N	.	LYS	LYS	A	A	33	33	.	9.708	34.398	-4.606	1.00	14.81	.
ATOM	1455	CA	CA	.	LYS	LYS	A	A	33	33	.	8.741	34.747	-3.574	1.00	18.14	.

ATOM	1456	C	C	.	LYS	LYS	A	A	33	33	.	7.343	34.433	-4.086	1.00	16.97	.
ATOM	1457	O	O	.	LYS	LYS	A	A	33	33	.	7.067	34.584	-5.277	1.00	20.25	.
ATOM	1458	CB	CB	.	LYS	LYS	A	A	33	33	.	8.816	36.242	-3.251	1.00	17.22	.
ATOM	1459	CG	CG	.	LYS	LYS	A	A	33	33	.	10.159	36.721	-2.744	1.00	26.26	.
ATOM	1460	CD	CD	.	LYS	LYS	A	A	33	33	.	10.261	38.234	-2.901	1.00	33.27	.
ATOM	1461	CE	CE	.	LYS	LYS	A	A	33	33	.	11.630	38.746	-2.511	1.00	51.37	.
ATOM	1462	NZ	NZ	.	LYS	LYS	A	A	33	33	.	11.894	40.092	-3.111	1.00	62.26	.
ATOM	1463	N	N	.	PHE	PHE	A	A	34	34	.	6.470	33.991	-3.186	1.00	18.51	.
ATOM	1464	CA	CA	.	PHE	PHE	A	A	34	34	.	5.088	33.683	-3.525	1.00	17.35	.
ATOM	1465	C	C	.	PHE	PHE	A	A	34	34	.	4.221	34.766	-2.899	1.00	25.06	.
ATOM	1466	O	O	.	PHE	PHE	A	A	34	34	.	4.102	34.849	-1.676	1.00	20.95	.
ATOM	1467	CB	CB	.	PHE	PHE	A	A	34	34	.	4.684	32.308	-2.983	1.00	16.74	.
ATOM	1468	CG	CG	.	PHE	PHE	A	A	34	34	.	5.322	31.158	-3.719	1.00	22.57	.
ATOM	1469	CD1	CD1	.	PHE	PHE	A	A	34	34	.	6.654	30.824	-3.498	1.00	31.37	.
ATOM	1470	CD2	CD2	.	PHE	PHE	A	A	34	34	.	4.606	30.449	-4.675	1.00	30.93	.
ATOM	1471	CE1	CE1	.	PHE	PHE	A	A	34	34	.	7.262	29.807	-4.223	1.00	29.22	.
ATOM	1472	CE2	CE2	.	PHE	PHE	A	A	34	34	.	5.204	29.429	-5.410	1.00	27.96	.
ATOM	1473	CZ	CZ	.	PHE	PHE	A	A	34	34	.	6.534	29.109	-5.185	1.00	27.78	.
ATOM	1474	N	N	.	ILE	ILE	A	A	35	35	.	3.615	35.593	-3.744	1.00	20.74	.
ATOM	1475	CA	CA	.	ILE	ILE	A	A	35	35	.	2.781	36.694	-3.273	1.00	21.08	.
ATOM	1476	C	C	.	ILE	ILE	A	A	35	35	.	1.287	36.378	-3.371	1.00	21.63	.
ATOM	1477	O	O	.	ILE	ILE	A	A	35	35	.	0.807	35.922	-4.411	1.00	20.71	.
ATOM	1478	CB	CB	.	ILE	ILE	A	A	35	35	.	3.068	37.973	-4.093	1.00	16.30	.
ATOM	1479	CG1	CG1	.	ILE	ILE	A	A	35	35	.	4.552	38.337	-3.974	1.00	25.64	.
ATOM	1480	CG2	CG2	.	ILE	ILE	A	A	35	35	.	2.178	39.126	-3.611	1.00	19.77	.
ATOM	1481	CD1	CD1	.	ILE	ILE	A	A	35	35	.	4.932	39.556	-4.772	1.00	41.55	.
ATOM	1482	N	N	.	ASN	ASN	A	A	36	36	.	0.546	36.620	-2.297	1.00	16.26	.
ATOM	1483	CA	CA	.	ASN	ASN	A	A	36	36	.	-0.883	36.351	-2.354	1.00	16.95	.
ATOM	1484	C	C	.	ASN	ASN	A	A	36	36	.	-1.545	37.436	-3.193	1.00	19.05	.
ATOM	1485	O	O	.	ASN	ASN	A	A	36	36	.	-1.487	38.626	-2.868	1.00	21.03	.
ATOM	1486	CB	CB	.	ASN	ASN	A	A	36	36	.	-1.483	36.291	-0.951	1.00	16.89	.
ATOM	1487	CG	CG	.	ASN	ASN	A	A	36	36	.	-2.917	35.806	-0.964	1.00	14.38	.
ATOM	1488	OD1	OD1	.	ASN	ASN	A	A	36	36	.	-3.844	36.593	-1.107	1.00	18.19	.
ATOM	1489	ND2	ND2	.	ASN	ASN	A	A	36	36	.	-3.103	34.501	-0.829	1.00	19.52	.
ATOM	1490	N	N	.	ALA	ALA	A	A	37	37	.	-2.153	37.010	-4.294	1.00	29.08	.
ATOM	1491	CA	CA	.	ALA	ALA	A	A	37	37	.	-2.807	37.910	-5.240	1.00	22.33	.
ATOM	1492	C	C	.	ALA	ALA	A	A	37	37	.	-3.721	38.987	-4.664	1.00	27.07	.
ATOM	1493	O	O	.	ALA	ALA	A	A	37	37	.	-3.595	40.164	-5.002	1.00	28.70	.
ATOM	1494	CB	CB	.	ALA	ALA	A	A	37	37	.	-3.582	37.090	-6.264	1.00	26.81	.
ATOM	1495	N	N	.	ASN	ASN	A	A	38	38	.	-4.643	38.597	-3.796	1.00	27.01	.
ATOM	1496	CA	CA	.	ASN	ASN	A	A	38	38	.	-5.590	39.550	-3.241	1.00	29.10	.
ATOM	1497	C	C	.	ASN	ASN	A	A	38	38	.	-5.125	40.351	-2.011	1.00	32.55	.
ATOM	1498	O	O	.	ASN	ASN	A	A	38	38	.	-5.605	41.466	-1.771	1.00	22.14	.
ATOM	1499	CB	CB	.	ASN	ASN	A	A	38	38	.	-6.902	38.814	-2.954	1.00	33.75	.
ATOM	1500	CG	CG	.	ASN	ASN	A	A	38	38	.	-7.560	38.263	-4.231	1.00	39.89	.
ATOM	1501	OD1	OD1	.	ASN	ASN	A	A	38	38	.	-8.464	37.423	-4.168	1.00	39.69	.
ATOM	1502	ND2	ND2	.	ASN	ASN	A	A	38	38	.	-7.114	38.748	-5.390	1.00	27.62	.
ATOM	1503	N	N	.	ASP	ASP	A	A	39	39	.	-4.183	39.804	-1.247	1.00	29.19	.
ATOM	1504	CA	CA	.	ASP	ASP	A	A	39	39	.	-3.686	40.494	-0.056	1.00	27.69	.
ATOM	1505	C	C	.	ASP	ASP	A	A	39	39	.	-2.323	41.152	-0.267	1.00	22.47	.
ATOM	1506	O	O	.	ASP	ASP	A	A	39	39	.	-1.992	42.132	0.401	1.00	25.32	.
ATOM	1507	CB	CB	.	ASP	ASP	A	A	39	39	.	-3.600	39.518	1.124	1.00	33.35	.
ATOM	1508	CG	CG	.	ASP	ASP	A	A	39	39	.	-3.242	40.209	2.419	1.00	34.85	.
ATOM	1509	OD1	OD1	.	ASP	ASP	A	A	39	39	.	-3.853	41.260	2.708	1.00	38.48	.
ATOM	1510	OD2	OD2	.	ASP	ASP	A	A	39	39	.	-2.365	39.706	3.149	1.00	21.75	.
ATOM	1511	N	N	.	GLY	GLY	A	A	40	40	.	-1.527	40.609	-1.182	1.00	18.58	.
ATOM	1512	CA	CA	.	GLY	GLY	A	A	40	40	.	-0.209	41.178	-1.440	1.00	20.86	.

ATOM	1513	C	C	.	GLY	GLY	A	A	40	40	.	0.899	40.694	-0.506	1.00	20.31	.
ATOM	1514	O	O	.	GLY	GLY	A	A	40	40	.	2.064	41.045	-0.690	1.00	23.40	.
ATOM	1515	N	N	.	SER	SER	A	A	41	41	.	0.546	39.888	0.493	1.00	17.03	.
ATOM	1516	CA	CA	.	SER	SER	A	A	41	41	.	1.526	39.361	1.444	1.00	18.80	.
ATOM	1517	C	C	.	SER	SER	A	A	41	41	.	2.366	38.237	0.821	1.00	21.39	.
ATOM	1518	O	O	.	SER	SER	A	A	41	41	.	1.910	37.549	-0.095	1.00	18.73	.
ATOM	1519	CB	CB	.	SER	SER	A	A	41	41	.	0.805	38.843	2.689	1.00	12.61	.
ATOM	1520	OG	OG	.	SER	SER	A	A	41	41	.	-0.199	37.908	2.341	1.00	20.94	.
ATOM	1521	N	N	.	ARG	ARG	A	A	42	42	.	3.587	38.053	1.322	1.00	15.64	.
ATOM	1522	CA	CA	.	ARG	ARG	A	A	42	42	.	4.486	37.028	0.795	1.00	16.17	.
ATOM	1523	C	C	.	ARG	ARG	A	A	42	42	.	4.558	35.794	1.676	1.00	17.24	.
ATOM	1524	O	O	.	ARG	ARG	A	A	42	42	.	4.645	35.911	2.901	1.00	14.95	.
ATOM	1525	CB	CB	.	ARG	ARG	A	A	42	42	.	5.903	37.581	0.632	1.00	18.32	.
ATOM	1526	CG	CG	.	ARG	ARG	A	A	42	42	.	6.061	38.608	-0.464	1.00	19.44	.
ATOM	1527	CD	CD	.	ARG	ARG	A	A	42	42	.	5.686	39.995	0.012	1.00	31.46	.
ATOM	1528	NE	NE	.	ARG	ARG	A	A	42	42	.	5.611	40.944	-1.096	1.00	43.52	.
ATOM	1529	CZ	CZ	.	ARG	ARG	A	A	42	42	.	6.634	41.277	-1.873	1.00	45.62	.
ATOM	1530	NH1	NH1	.	ARG	ARG	A	A	42	42	.	7.833	40.743	-1.671	1.00	53.39	.
ATOM	1531	NH2	NH2	.	ARG	ARG	A	A	42	42	.	6.454	42.146	-2.858	1.00	0.00	.
ATOM	1532	N	N	.	LEU	LEU	A	A	43	43	.	4.529	34.617	1.050	1.00	11.44	.
ATOM	1533	CA	CA	.	LEU	LEU	A	A	43	43	.	4.613	33.352	1.791	1.00	10.82	.
ATOM	1534	C	C	.	LEU	LEU	A	A	43	43	.	5.896	33.452	2.592	1.00	12.80	.
ATOM	1535	O	O	.	LEU	LEU	A	A	43	43	.	6.936	33.881	2.067	1.00	11.97	.
ATOM	1536	CB	CB	.	LEU	LEU	A	A	43	43	.	4.653	32.159	0.837	1.00	12.78	.
ATOM	1537	CG	CG	.	LEU	LEU	A	A	43	43	.	4.489	30.796	1.521	1.00	10.91	.
ATOM	1538	CD1	CD1	.	LEU	LEU	A	A	43	43	.	3.177	30.749	2.269	1.00	13.86	.
ATOM	1539	CD2	CD2	.	LEU	LEU	A	A	43	43	.	4.543	29.692	0.480	1.00	9.77	.
ATOM	1540	N	N	.	HIS	HIS	A	A	44	44	.	5.850	33.008	3.843	1.00	13.24	.
ATOM	1541	CA	CA	.	HIS	HIS	A	A	44	44	.	6.996	33.218	4.718	1.00	10.40	.
ATOM	1542	C	C	.	HIS	HIS	A	A	44	44	.	7.148	32.153	5.801	1.00	17.84	.
ATOM	1543	O	O	.	HIS	HIS	A	A	44	44	.	6.184	31.470	6.173	1.00	15.55	.
ATOM	1544	CB	CB	.	HIS	HIS	A	A	44	44	.	6.769	34.605	5.348	1.00	15.13	.
ATOM	1545	CG	CG	.	HIS	HIS	A	A	44	44	.	7.875	35.107	6.228	1.00	22.74	.
ATOM	1546	ND1	ND1	.	HIS	HIS	A	A	44	44	.	7.931	34.839	7.578	1.00	28.39	.
ATOM	1547	CD2	CD2	.	HIS	HIS	A	A	44	44	.	8.902	35.953	5.970	1.00	16.33	.
ATOM	1548	CE1	CE1	.	HIS	HIS	A	A	44	44	.	8.942	35.500	8.116	1.00	20.73	.
ATOM	1549	NE2	NE2	.	HIS	HIS	A	A	44	44	.	9.546	36.184	7.161	1.00	23.95	.
ATOM	1550	N	N	.	SER	SER	A	A	45	45	.	8.370	31.994	6.286	1.00	16.17	.
ATOM	1551	CA	CA	.	SER	SER	A	A	45	45	.	8.607	31.074	7.384	1.00	16.77	.
ATOM	1552	C	C	.	SER	SER	A	A	45	45	.	9.720	31.632	8.254	1.00	24.09	.
ATOM	1553	O	O	.	SER	SER	A	A	45	45	.	10.345	32.633	7.904	1.00	20.56	.
ATOM	1554	CB	CB	.	SER	SER	A	A	45	45	.	8.947	29.677	6.901	1.00	15.48	.
ATOM	1555	OG	OG	.	SER	SER	A	A	45	45	.	8.748	28.766	7.974	1.00	19.35	.
ATOM	1556	N	N	.	HIS	HIS	A	A	46	46	.	9.977	30.976	9.379	1.00	20.47	.
ATOM	1557	CA	CA	.	HIS	HIS	A	A	46	46	.	10.971	31.469	10.321	1.00	24.37	.
ATOM	1558	C	C	.	HIS	HIS	A	A	46	46	.	11.146	30.434	11.421	1.00	24.45	.
ATOM	1559	O	O	.	HIS	HIS	A	A	46	46	.	10.519	29.384	11.381	1.00	22.36	.
ATOM	1560	CB	CB	.	HIS	HIS	A	A	46	46	.	10.445	32.778	10.893	1.00	21.36	.
ATOM	1561	CG	CG	.	HIS	HIS	A	A	46	46	.	8.963	32.768	11.106	1.00	18.89	.
ATOM	1562	ND1	ND1	.	HIS	HIS	A	A	46	46	.	8.206	33.917	11.166	1.00	21.40	.
ATOM	1563	CD2	CD2	.	HIS	HIS	A	A	46	46	.	8.096	31.739	11.273	1.00	20.77	.
ATOM	1564	CE1	CE1	.	HIS	HIS	A	A	46	46	.	6.938	33.598	11.362	1.00	18.99	.
ATOM	1565	NE2	NE2	.	HIS	HIS	A	A	46	46	.	6.845	32.282	11.431	1.00	16.44	.
ATOM	1566	N	N	.	ASP	ASP	A	A	47	47	.	11.984	30.734	12.407	1.00	29.95	.
ATOM	1567	CA	CA	.	ASP	ASP	A	A	47	47	.	12.236	29.795	13.496	1.00	30.32	.
ATOM	1568	C	C	.	ASP	ASP	A	A	47	47	.	11.204	29.923	14.609	1.00	34.98	.
ATOM	1569	O	O	.	ASP	ASP	A	A	47	47	.	11.551	29.952	15.793	1.00	47.26	.

ATOM	1570	CB	CB	.	ASP	ASP	A	A	47	47	.	13.638	30.019	14.077	1.00	34.20	.
ATOM	1571	CG	CG	.	ASP	ASP	A	A	47	47	.	14.169	28.795	14.804	1.00	47.14	.
ATOM	1572	OD1	OD1	.	ASP	ASP	A	A	47	47	.	13.375	28.120	15.494	1.00	52.03	.
ATOM	1573	OD2	OD2	.	ASP	ASP	A	A	47	47	.	15.382	28.511	14.691	1.00	42.39	.
ATOM	1574	N	N	.	VAL	VAL	A	A	48	48	.	9.936	30.016	14.229	1.00	32.28	.
ATOM	1575	CA	CA	.	VAL	VAL	A	A	48	48	.	8.846	30.122	15.191	1.00	24.97	.
ATOM	1576	C	C	.	VAL	VAL	A	A	48	48	.	7.950	28.917	14.959	1.00	36.24	.
ATOM	1577	O	O	.	VAL	VAL	A	A	48	48	.	7.397	28.756	13.873	1.00	30.64	.
ATOM	1578	CB	CB	.	VAL	VAL	A	A	48	48	.	8.021	31.412	14.975	1.00	29.49	.
ATOM	1579	CG1	CG1	.	VAL	VAL	A	A	48	48	.	6.831	31.438	15.922	1.00	22.95	.
ATOM	1580	CG2	CG2	.	VAL	VAL	A	A	48	48	.	8.901	32.641	15.196	1.00	27.27	.
ATOM	1581	N	N	.	LYS	LYS	A	A	49	49	.	7.810	28.072	15.978	1.00	36.26	.
ATOM	1582	CA	CA	.	LYS	LYS	A	A	49	49	.	6.994	26.871	15.862	1.00	33.71	.
ATOM	1583	C	C	.	LYS	LYS	A	A	49	49	.	5.566	27.049	16.356	1.00	36.36	.
ATOM	1584	O	O	.	LYS	LYS	A	A	49	49	.	5.283	27.932	17.164	1.00	34.90	.
ATOM	1585	CB	CB	.	LYS	LYS	A	A	49	49	.	7.654	25.713	16.620	1.00	39.65	.
ATOM	1586	CG	CG	.	LYS	LYS	A	A	49	49	.	9.061	25.390	16.128	1.00	51.06	.
ATOM	1587	CD	CD	.	LYS	LYS	A	A	49	49	.	9.519	24.001	16.545	1.00	50.82	.
ATOM	1588	CE	CE	.	LYS	LYS	A	A	49	49	.	10.858	23.657	15.902	1.00	49.46	.
ATOM	1589	NZ	NZ	.	LYS	LYS	A	A	49	49	.	11.276	22.243	16.151	1.00	54.24	.
ATOM	1590	N	N	.	TYR	TYR	A	A	50	50	.	4.667	26.208	15.851	1.00	33.34	.
ATOM	1591	CA	CA	.	TYR	TYR	A	A	50	50	.	3.268	26.248	16.249	1.00	33.99	.
ATOM	1592	C	C	.	TYR	TYR	A	A	50	50	.	3.149	25.726	17.670	1.00	41.58	.
ATOM	1593	O	O	.	TYR	TYR	A	A	50	50	.	3.989	24.957	18.136	1.00	42.00	.
ATOM	1594	CB	CB	.	TYR	TYR	A	A	50	50	.	2.406	25.359	15.348	1.00	38.38	.
ATOM	1595	CG	CG	.	TYR	TYR	A	A	50	50	.	2.135	25.894	13.958	1.00	37.31	.
ATOM	1596	CD1	CD1	.	TYR	TYR	A	A	50	50	.	1.508	27.128	13.771	1.00	34.21	.
ATOM	1597	CD2	CD2	.	TYR	TYR	A	A	50	50	.	2.462	25.141	12.829	1.00	30.81	.
ATOM	1598	CE1	CE1	.	TYR	TYR	A	A	50	50	.	1.209	27.598	12.489	1.00	33.56	.
ATOM	1599	CE2	CE2	.	TYR	TYR	A	A	50	50	.	2.169	25.600	11.546	1.00	29.03	.
ATOM	1600	CZ	CZ	.	TYR	TYR	A	A	50	50	.	1.543	26.827	11.382	1.00	34.74	.
ATOM	1601	OH	OH	.	TYR	TYR	A	A	50	50	.	1.243	27.278	10.116	1.00	27.67	.
ATOM	1602	N	N	.	GLY	GLY	A	A	51	51	.	2.093	26.149	18.349	1.00	45.04	.
ATOM	1603	CA	CA	.	GLY	GLY	A	A	51	51	.	1.847	25.708	19.704	1.00	52.07	.
ATOM	1604	C	C	.	GLY	GLY	A	A	51	51	.	0.415	25.227	19.728	1.00	58.90	.
ATOM	1605	O	O	.	GLY	GLY	A	A	51	51	.	-0.384	25.672	20.551	1.00	62.54	.
ATOM	1606	N	N	.	SER	SER	A	A	52	52	.	0.088	24.322	18.809	1.00	59.77	.
ATOM	1607	CA	CA	.	SER	SER	A	A	52	52	.	-1.265	23.794	18.716	1.00	60.84	.
ATOM	1608	C	C	.	SER	SER	A	A	52	52	.	-1.370	22.455	17.980	1.00	60.63	.
ATOM	1609	O	O	.	SER	SER	A	A	52	52	.	-1.536	21.410	18.608	1.00	69.40	.
ATOM	1610	CB	CB	.	SER	SER	A	A	52	52	.	-2.173	24.827	18.042	1.00	62.63	.
ATOM	1611	OG	OG	.	SER	SER	A	A	52	52	.	-1.625	25.266	16.806	1.00	61.55	.
ATOM	1612	N	N	.	GLY	GLY	A	A	53	53	.	-1.275	22.488	16.655	1.00	53.19	.
ATOM	1613	CA	CA	.	GLY	GLY	A	A	53	53	.	-1.394	21.270	15.869	1.00	48.98	.
ATOM	1614	C	C	.	GLY	GLY	A	A	53	53	.	-0.265	20.262	15.992	1.00	51.02	.
ATOM	1615	O	O	.	GLY	GLY	A	A	53	53	.	-0.210	19.481	16.942	1.00	46.29	.
ATOM	1616	N	N	.	SER	SER	A	A	54	54	.	0.634	20.270	15.014	1.00	43.61	.
ATOM	1617	CA	CA	.	SER	SER	A	A	54	54	.	1.767	19.351	14.996	1.00	38.34	.
ATOM	1618	C	C	.	SER	SER	A	A	54	54	.	2.923	19.916	15.804	1.00	38.29	.
ATOM	1619	O	O	.	SER	SER	A	A	54	54	.	3.861	19.200	16.149	1.00	39.48	.
ATOM	1620	CB	CB	.	SER	SER	A	A	54	54	.	2.235	19.122	13.556	1.00	45.61	.
ATOM	1621	OG	OG	.	SER	SER	A	A	54	54	.	2.833	20.298	13.025	1.00	35.65	.
ATOM	1622	N	N	.	GLY	GLY	A	A	55	55	.	2.852	21.208	16.099	1.00	36.84	.
ATOM	1623	CA	CA	.	GLY	GLY	A	A	55	55	.	3.919	21.840	16.846	1.00	34.17	.
ATOM	1624	C	C	.	GLY	GLY	A	A	55	55	.	5.156	22.009	15.982	1.00	31.24	.
ATOM	1625	O	O	.	GLY	GLY	A	A	55	55	.	6.256	22.214	16.495	1.00	27.38	.
ATOM	1626	N	N	.	GLN	GLN	A	A	56	56	.	4.985	21.910	14.666	1.00	27.92	.

ATOM	1627	CA	CA	.	GLN	GLN	A	A	56	56	.	6.106	22.073	13.742	1.00	27.72	.
ATOM	1628	C	C	.	GLN	GLN	A	A	56	56	.	6.299	23.558	13.429	1.00	23.04	.
ATOM	1629	O	O	.	GLN	GLN	A	A	56	56	.	5.508	24.392	13.856	1.00	22.32	.
ATOM	1630	CB	CB	.	GLN	GLN	A	A	56	56	.	5.847	21.303	12.445	1.00	25.38	.
ATOM	1631	CG	CG	.	GLN	GLN	A	A	56	56	.	5.633	19.817	12.645	1.00	37.82	.
ATOM	1632	CD	CD	.	GLN	GLN	A	A	56	56	.	5.376	19.088	11.342	1.00	39.23	.
ATOM	1633	OE1	OE1	.	GLN	GLN	A	A	56	56	.	4.722	19.612	10.446	1.00	30.71	.
ATOM	1634	NE2	NE2	.	GLN	GLN	A	A	56	56	.	5.877	17.862	11.239	1.00	40.25	.
ATOM	1635	N	N	.	GLN	GLN	A	A	57	57	.	7.346	23.875	12.676	1.00	23.53	.
ATOM	1636	CA	CA	.	GLN	GLN	A	A	57	57	.	7.651	25.256	12.309	1.00	23.22	.
ATOM	1637	C	C	.	GLN	GLN	A	A	57	57	.	6.471	25.867	11.568	1.00	22.82	.
ATOM	1638	O	O	.	GLN	GLN	A	A	57	57	.	5.940	25.264	10.640	1.00	23.62	.
ATOM	1639	CB	CB	.	GLN	GLN	A	A	57	57	.	8.891	25.295	11.421	1.00	21.79	.
ATOM	1640	CG	CG	.	GLN	GLN	A	A	57	57	.	9.487	26.673	11.250	1.00	18.27	.
ATOM	1641	CD	CD	.	GLN	GLN	A	A	57	57	.	10.762	26.637	10.446	1.00	29.61	.
ATOM	1642	OE1	OE1	.	GLN	GLN	A	A	57	57	.	10.787	27.014	9.267	1.00	25.89	.
ATOM	1643	NE2	NE2	.	GLN	GLN	A	A	57	57	.	11.832	26.162	11.068	1.00	22.57	.
ATOM	1644	N	N	.	SER	SER	A	A	58	58	.	6.068	27.065	11.978	1.00	24.36	.
ATOM	1645	CA	CA	.	SER	SER	A	A	58	58	.	4.935	27.735	11.357	1.00	20.75	.
ATOM	1646	C	C	.	SER	SER	A	A	58	58	.	5.238	28.338	9.983	1.00	24.93	.
ATOM	1647	O	O	.	SER	SER	A	A	58	58	.	6.398	28.535	9.606	1.00	20.82	.
ATOM	1648	CB	CB	.	SER	SER	A	A	58	58	.	4.413	28.842	12.270	1.00	22.06	.
ATOM	1649	OG	OG	.	SER	SER	A	A	58	58	.	5.361	29.885	12.405	1.00	28.40	.
ATOM	1650	N	N	.	VAL	VAL	A	A	59	59	.	4.166	28.628	9.249	1.00	22.74	.
ATOM	1651	CA	CA	.	VAL	VAL	A	A	59	59	.	4.243	29.243	7.928	1.00	18.26	.
ATOM	1652	C	C	.	VAL	VAL	A	A	59	59	.	3.232	30.376	7.946	1.00	17.40	.
ATOM	1653	O	O	.	VAL	VAL	A	A	59	59	.	2.099	30.191	8.382	1.00	22.30	.
ATOM	1654	CB	CB	.	VAL	VAL	A	A	59	59	.	3.846	28.258	6.809	1.00	19.67	.
ATOM	1655	CG1	CG1	.	VAL	VAL	A	A	59	59	.	3.731	29.000	5.474	1.00	13.08	.
ATOM	1656	CG2	CG2	.	VAL	VAL	A	A	59	59	.	4.880	27.144	6.707	1.00	18.01	.
ATOM	1657	N	N	.	THR	THR	A	A	60	60	.	3.640	31.550	7.485	1.00	19.62	.
ATOM	1658	CA	CA	.	THR	THR	A	A	60	60	.	2.747	32.703	7.460	1.00	17.41	.
ATOM	1659	C	C	.	THR	THR	A	A	60	60	.	2.898	33.460	6.147	1.00	16.60	.
ATOM	1660	O	O	.	THR	THR	A	A	60	60	.	3.578	33.006	5.224	1.00	17.67	.
ATOM	1661	CB	CB	.	THR	THR	A	A	60	60	.	3.094	33.698	8.583	1.00	22.94	.
ATOM	1662	OG1	OG1	.	THR	THR	A	A	60	60	.	4.344	34.338	8.270	1.00	15.08	.
ATOM	1663	CG2	CG2	.	THR	THR	A	A	60	60	.	3.217	32.973	9.931	1.00	17.23	.
ATOM	1664	N	N	.	ALA	ALA	A	A	61	61	.	2.250	34.620	6.076	1.00	16.39	.
ATOM	1665	CA	CA	.	ALA	ALA	A	A	61	61	.	2.349	35.490	4.916	1.00	16.69	.
ATOM	1666	C	C	.	ALA	ALA	A	A	61	61	.	2.621	36.867	5.505	1.00	19.41	.
ATOM	1667	O	O	.	ALA	ALA	A	A	61	61	.	1.900	37.319	6.400	1.00	19.59	.
ATOM	1668	CB	CB	.	ALA	ALA	A	A	61	61	.	1.057	35.489	4.120	1.00	20.71	.
ATOM	1669	N	N	.	VAL	VAL	A	A	62	62	.	3.653	37.535	5.001	1.00	14.96	.
ATOM	1670	CA	CA	.	VAL	VAL	A	A	62	62	.	4.034	38.841	5.523	1.00	21.07	.
ATOM	1671	C	C	.	VAL	VAL	A	A	62	62	.	3.862	40.028	4.583	1.00	16.54	.
ATOM	1672	O	O	.	VAL	VAL	A	A	62	62	.	4.153	39.946	3.392	1.00	18.70	.
ATOM	1673	CB	CB	.	VAL	VAL	A	A	62	62	.	5.505	38.815	5.983	1.00	16.05	.
ATOM	1674	CG1	CG1	.	VAL	VAL	A	A	62	62	.	5.661	37.832	7.133	1.00	22.34	.
ATOM	1675	CG2	CG2	.	VAL	VAL	A	A	62	62	.	6.406	38.402	4.819	1.00	15.79	.
ATOM	1676	N	N	.	LYS	LYS	A	A	63	63	.	3.390	41.135	5.146	1.00	25.55	.
ATOM	1677	CA	CA	.	LYS	LYS	A	A	63	63	.	3.211	42.378	4.410	1.00	31.01	.
ATOM	1678	C	C	.	LYS	LYS	A	A	63	63	.	4.505	43.142	4.673	1.00	37.98	.
ATOM	1679	O	O	.	LYS	LYS	A	A	63	63	.	4.509	44.227	5.247	1.00	50.47	.
ATOM	1680	CB	CB	.	LYS	LYS	A	A	63	63	.	1.988	43.133	4.951	1.00	35.64	.
ATOM	1681	CG	CG	.	LYS	LYS	A	A	63	63	.	1.866	44.591	4.517	1.00	50.20	.
ATOM	1682	CD	CD	.	LYS	LYS	A	A	63	63	.	1.973	44.773	3.010	1.00	55.71	.
ATOM	1683	CE	CE	.	LYS	LYS	A	A	63	63	.	1.890	46.253	2.637	1.00	60.22	.

ATOM	1684	NZ	NZ	.	LYS	LYS	A	A	63	63	.	2.930	47.074	3.335	1.00	52.14	.
ATOM	1685	N	N	.	ASN	ASN	A	A	64	64	.	5.611	42.530	4.265	1.00	49.82	.
ATOM	1686	CA	CA	.	ASN	ASN	A	A	64	64	.	6.945	43.086	4.448	1.00	49.83	.
ATOM	1687	C	C	.	ASN	ASN	A	A	64	64	.	7.827	42.662	3.283	1.00	53.43	.
ATOM	1688	O	O	.	ASN	ASN	A	A	64	64	.	8.482	41.617	3.328	1.00	52.17	.
ATOM	1689	CB	CB	.	ASN	ASN	A	A	64	64	.	7.543	42.582	5.766	1.00	58.88	.
ATOM	1690	CG	CG	.	ASN	ASN	A	A	64	64	.	9.058	42.555	5.747	1.00	61.79	.
ATOM	1691	OD1	OD1	.	ASN	ASN	A	A	64	64	.	9.705	43.571	5.501	1.00	69.82	.
ATOM	1692	ND2	ND2	.	ASN	ASN	A	A	64	64	.	9.632	41.384	6.004	1.00	63.98	.
ATOM	1693	N	N	.	SER	SER	A	A	65	65	.	7.839	43.490	2.245	1.00	52.80	.
ATOM	1694	CA	CA	.	SER	SER	A	A	65	65	.	8.616	43.230	1.039	1.00	62.28	.
ATOM	1695	C	C	.	SER	SER	A	A	65	65	.	10.060	42.795	1.279	1.00	65.05	.
ATOM	1696	O	O	.	SER	SER	A	A	65	65	.	10.601	42.942	2.377	1.00	66.34	.
ATOM	1697	CB	CB	.	SER	SER	A	A	65	65	.	8.612	44.473	0.145	1.00	59.10	.
ATOM	1698	OG	OG	.	SER	SER	A	A	65	65	.	9.398	44.262	-1.013	1.00	64.88	.
ATOM	1699	N	N	.	ASP	ASP	A	A	66	66	.	10.665	42.255	0.225	1.00	65.79	.
ATOM	1700	CA	CA	.	ASP	ASP	A	A	66	66	.	12.049	41.796	0.232	1.00	68.45	.
ATOM	1701	C	C	.	ASP	ASP	A	A	66	66	.	12.596	41.382	1.604	1.00	67.58	.
ATOM	1702	O	O	.	ASP	ASP	A	A	66	66	.	13.089	42.217	2.368	1.00	67.39	.
ATOM	1703	CB	CB	.	ASP	ASP	A	A	66	66	.	12.945	42.886	-0.376	1.00	72.29	.
ATOM	1704	CG	CG	.	ASP	ASP	A	A	66	66	.	13.795	42.374	-1.531	1.00	75.91	.
ATOM	1705	OD1	OD1	.	ASP	ASP	A	A	66	66	.	14.539	43.180	-2.134	1.00	78.05	.
ATOM	1706	OD2	OD2	.	ASP	ASP	A	A	66	66	.	13.721	41.165	-1.839	1.00	79.93	.
ATOM	1707	N	N	.	ASP	ASP	A	A	67	67	.	12.502	40.089	1.905	1.00	58.48	.
ATOM	1708	CA	CA	.	ASP	ASP	A	A	67	67	.	13.001	39.529	3.163	1.00	48.34	.
ATOM	1709	C	C	.	ASP	ASP	A	A	67	67	.	13.495	38.118	2.842	1.00	41.75	.
ATOM	1710	O	O	.	ASP	ASP	A	A	67	67	.	12.782	37.329	2.217	1.00	31.83	.
ATOM	1711	CB	CB	.	ASP	ASP	A	A	67	67	.	11.886	39.478	4.219	1.00	57.14	.
ATOM	1712	CG	CG	.	ASP	ASP	A	A	67	67	.	12.370	38.947	5.570	1.00	56.40	.
ATOM	1713	OD1	OD1	.	ASP	ASP	A	A	67	67	.	11.571	38.941	6.532	1.00	59.39	.
ATOM	1714	OD2	OD2	.	ASP	ASP	A	A	67	67	.	13.542	38.533	5.675	1.00	54.73	.
ATOM	1715	N	N	.	ILE	ILE	A	A	68	68	.	14.718	37.814	3.262	1.00	32.35	.
ATOM	1716	CA	CA	.	ILE	ILE	A	A	68	68	.	15.319	36.514	3.000	1.00	25.91	.
ATOM	1717	C	C	.	ILE	ILE	A	A	68	68	.	14.474	35.329	3.481	1.00	19.03	.
ATOM	1718	O	O	.	ILE	ILE	A	A	68	68	.	14.504	34.258	2.875	1.00	19.16	.
ATOM	1719	CB	CB	.	ILE	ILE	A	A	68	68	.	16.742	36.432	3.622	1.00	34.74	.
ATOM	1720	CG1	CG1	.	ILE	ILE	A	A	68	68	.	17.419	35.117	3.216	1.00	33.93	.
ATOM	1721	CG2	CG2	.	ILE	ILE	A	A	68	68	.	16.663	36.551	5.136	1.00	32.14	.
ATOM	1722	CD1	CD1	.	ILE	ILE	A	A	68	68	.	17.638	34.969	1.717	1.00	39.73	.
ATOM	1723	N	N	.	ASN	ASN	A	A	69	69	.	13.725	35.515	4.563	1.00	15.02	.
ATOM	1724	CA	CA	.	ASN	ASN	A	A	69	69	.	12.884	34.448	5.080	1.00	19.43	.
ATOM	1725	C	C	.	ASN	ASN	A	A	69	69	.	11.626	34.258	4.227	1.00	18.39	.
ATOM	1726	O	O	.	ASN	ASN	A	A	69	69	.	10.786	33.424	4.553	1.00	15.94	.
ATOM	1727	CB	CB	.	ASN	ASN	A	A	69	69	.	12.480	34.724	6.537	1.00	16.04	.
ATOM	1728	CG	CG	.	ASN	ASN	A	A	69	69	.	13.662	34.639	7.498	1.00	22.48	.
ATOM	1729	OD1	OD1	.	ASN	ASN	A	A	69	69	.	14.339	33.615	7.576	1.00	24.04	.
ATOM	1730	ND2	ND2	.	ASN	ASN	A	A	69	69	.	13.917	35.719	8.221	1.00	25.64	.
ATOM	1731	N	N	.	SER	SER	A	A	70	70	.	11.499	35.032	3.148	1.00	10.93	.
ATOM	1732	CA	CA	.	SER	SER	A	A	70	70	.	10.341	34.913	2.261	1.00	16.19	.
ATOM	1733	C	C	.	SER	SER	A	A	70	70	.	10.726	34.224	0.962	1.00	21.33	.
ATOM	1734	O	O	.	SER	SER	A	A	70	70	.	9.923	34.160	0.022	1.00	17.16	.
ATOM	1735	CB	CB	.	SER	SER	A	A	70	70	.	9.747	36.289	1.931	1.00	22.74	.
ATOM	1736	OG	OG	.	SER	SER	A	A	70	70	.	9.201	36.900	3.089	1.00	20.35	.
ATOM	1737	N	N	.	HIS	HIS	A	A	71	71	.	11.960	33.729	0.898	1.00	15.32	.
ATOM	1738	CA	CA	.	HIS	HIS	A	A	71	71	.	12.420	33.045	-0.303	1.00	15.60	.
ATOM	1739	C	C	.	HIS	HIS	A	A	71	71	.	12.238	31.545	-0.213	1.00	17.97	.
ATOM	1740	O	O	.	HIS	HIS	A	A	71	71	.	12.542	30.928	0.821	1.00	15.73	.

ATOM	1741	CB	CB	.	HIS	HIS	A	A	71	71	.	13.884	33.375	-0.582	1.00	20.63	.
ATOM	1742	CG	CG	.	HIS	HIS	A	A	71	71	.	14.084	34.773	-1.069	1.00	29.15	.
ATOM	1743	ND1	ND1	.	HIS	HIS	A	A	71	71	.	14.055	35.862	-0.228	1.00	34.25	.
ATOM	1744	CD2	CD2	.	HIS	HIS	A	A	71	71	.	14.219	35.268	-2.321	1.00	34.44	.
ATOM	1745	CE1	CE1	.	HIS	HIS	A	A	71	71	.	14.160	36.969	-0.941	1.00	32.66	.
ATOM	1746	NE2	NE2	.	HIS	HIS	A	A	71	71	.	14.259	36.637	-2.215	1.00	36.38	.
ATOM	1747	N	N	.	TRP	TRP	A	A	72	72	.	11.731	30.976	-1.306	1.00	12.16	.
ATOM	1748	CA	CA	.	TRP	TRP	A	A	72	72	.	11.481	29.546	-1.408	1.00	11.86	.
ATOM	1749	C	C	.	TRP	TRP	A	A	72	72	.	12.102	28.986	-2.676	1.00	14.14	.
ATOM	1750	O	O	.	TRP	TRP	A	A	72	72	.	12.168	29.664	-3.701	1.00	21.98	.
ATOM	1751	CB	CB	.	TRP	TRP	A	A	72	72	.	9.979	29.267	-1.441	1.00	17.14	.
ATOM	1752	CG	CG	.	TRP	TRP	A	A	72	72	.	9.243	29.782	-0.266	1.00	10.73	.
ATOM	1753	CD1	CD1	.	TRP	TRP	A	A	72	72	.	8.842	31.068	-0.046	1.00	11.99	.
ATOM	1754	CD2	CD2	.	TRP	TRP	A	A	72	72	.	8.818	29.025	0.864	1.00	6.42	.
ATOM	1755	NE1	NE1	.	TRP	TRP	A	A	72	72	.	8.189	31.157	1.162	1.00	13.45	.
ATOM	1756	CE2	CE2	.	TRP	TRP	A	A	72	72	.	8.160	29.915	1.739	1.00	9.57	.
ATOM	1757	CE3	CE3	.	TRP	TRP	A	A	72	72	.	8.928	27.671	1.226	1.00	15.25	.
ATOM	1758	CZ2	CZ2	.	TRP	TRP	A	A	72	72	.	7.610	29.500	2.954	1.00	12.29	.
ATOM	1759	CZ3	CZ3	.	TRP	TRP	A	A	72	72	.	8.382	27.256	2.433	1.00	10.32	.
ATOM	1760	CH2	CH2	.	TRP	TRP	A	A	72	72	.	7.729	28.171	3.283	1.00	12.75	.
ATOM	1761	N	N	.	GLN	GLN	A	A	73	73	.	12.548	27.739	-2.616	1.00	17.71	.
ATOM	1762	CA	CA	.	GLN	GLN	A	A	73	73	.	13.143	27.116	-3.783	1.00	14.84	.
ATOM	1763	C	C	.	GLN	GLN	A	A	73	73	.	12.281	25.983	-4.296	1.00	12.80	.
ATOM	1764	O	O	.	GLN	GLN	A	A	73	73	.	11.880	25.091	-3.547	1.00	14.15	.
ATOM	1765	CB	CB	.	GLN	GLN	A	A	73	73	.	14.540	26.589	-3.457	1.00	17.45	.
ATOM	1766	CG	CG	.	GLN	GLN	A	A	73	73	.	15.230	25.952	-4.653	1.00	13.96	.
ATOM	1767	CD	CD	.	GLN	GLN	A	A	73	73	.	16.701	25.725	-4.395	1.00	24.58	.
ATOM	1768	OE1	OE1	.	GLN	GLN	A	A	73	73	.	17.093	25.381	-3.284	1.00	19.66	.
ATOM	1769	NE2	NE2	.	GLN	GLN	A	A	73	73	.	17.523	25.907	-5.424	1.00	26.83	.
ATOM	1770	N	N	.	ILE	ILE	A	A	74	74	.	11.992	26.024	-5.586	1.00	15.05	.
ATOM	1771	CA	CA	.	ILE	ILE	A	A	74	74	.	11.179	24.997	-6.211	1.00	13.28	.
ATOM	1772	C	C	.	ILE	ILE	A	A	74	74	.	11.979	23.720	-6.419	1.00	16.62	.
ATOM	1773	O	O	.	ILE	ILE	A	A	74	74	.	13.047	23.740	-7.034	1.00	18.18	.
ATOM	1774	CB	CB	.	ILE	ILE	A	A	74	74	.	10.638	25.480	-7.567	1.00	20.34	.
ATOM	1775	CG1	CG1	.	ILE	ILE	A	A	74	74	.	9.788	26.736	-7.353	1.00	16.93	.
ATOM	1776	CG2	CG2	.	ILE	ILE	A	A	74	74	.	9.809	24.379	-8.220	1.00	25.84	.
ATOM	1777	CD1	CD1	.	ILE	ILE	A	A	74	74	.	9.353	27.381	-8.615	1.00	26.87	.
ATOM	1778	N	N	.	PHE	PHE	A	A	75	75	.	11.453	22.618	-5.882	1.00	18.79	.
ATOM	1779	CA	CA	.	PHE	PHE	A	A	75	75	.	12.066	21.297	-5.997	1.00	17.95	.
ATOM	1780	C	C	.	PHE	PHE	A	A	75	75	.	11.132	20.358	-6.755	1.00	22.55	.
ATOM	1781	O	O	.	PHE	PHE	A	A	75	75	.	9.917	20.557	-6.760	1.00	16.92	.
ATOM	1782	CB	CB	.	PHE	PHE	A	A	75	75	.	12.306	20.688	-4.611	1.00	18.01	.
ATOM	1783	CG	CG	.	PHE	PHE	A	A	75	75	.	13.669	20.966	-4.045	1.00	19.86	.
ATOM	1784	CD1	CD1	.	PHE	PHE	A	A	75	75	.	14.062	22.259	-3.737	1.00	17.42	.
ATOM	1785	CD2	CD2	.	PHE	PHE	A	A	75	75	.	14.559	19.923	-3.814	1.00	28.23	.
ATOM	1786	CE1	CE1	.	PHE	PHE	A	A	75	75	.	15.324	22.515	-3.201	1.00	22.82	.
ATOM	1787	CE2	CE2	.	PHE	PHE	A	A	75	75	.	15.831	20.168	-3.277	1.00	28.46	.
ATOM	1788	CZ	CZ	.	PHE	PHE	A	A	75	75	.	16.208	21.466	-2.971	1.00	23.30	.
ATOM	1789	N	N	.	PRO	PRO	A	A	76	76	.	11.685	19.319	-7.405	1.00	25.91	.
ATOM	1790	CA	CA	.	PRO	PRO	A	A	76	76	.	10.803	18.394	-8.127	1.00	24.76	.
ATOM	1791	C	C	.	PRO	PRO	A	A	76	76	.	10.022	17.632	-7.062	1.00	19.25	.
ATOM	1792	O	O	.	PRO	PRO	A	A	76	76	.	10.395	17.667	-5.886	1.00	20.25	.
ATOM	1793	CB	CB	.	PRO	PRO	A	A	76	76	.	11.784	17.507	-8.892	1.00	25.61	.
ATOM	1794	CG	CG	.	PRO	PRO	A	A	76	76	.	12.986	17.477	-7.983	1.00	25.49	.
ATOM	1795	CD	CD	.	PRO	PRO	A	A	76	76	.	13.100	18.921	-7.541	1.00	23.57	.
ATOM	1796	N	N	.	ALA	ALA	A	A	77	77	.	8.940	16.966	-7.457	1.00	16.75	.
ATOM	1797	CA	CA	.	ALA	ALA	A	A	77	77	.	8.121	16.210	-6.512	1.00	23.14	.

ATOM	1798	C	C	.	ALA	ALA	A	A	77	77	.	8.968	15.168	-5.781	1.00	21.34	.
ATOM	1799	O	O	.	ALA	ALA	A	A	77	77	.	10.038	14.793	-6.261	1.00	19.00	.
ATOM	1800	CB	CB	.	ALA	ALA	A	A	77	77	.	6.970	15.535	-7.248	1.00	19.46	.
ATOM	1801	N	N	.	LEU	LEU	A	A	78	78	.	8.489	14.704	-4.629	1.00	19.96	.
ATOM	1802	CA	CA	.	LEU	LEU	A	A	78	78	.	9.232	13.719	-3.836	1.00	28.31	.
ATOM	1803	C	C	.	LEU	LEU	A	A	78	78	.	9.770	12.550	-4.648	1.00	32.85	.
ATOM	1804	O	O	.	LEU	LEU	A	A	78	78	.	10.936	12.175	-4.509	1.00	35.59	.
ATOM	1805	CB	CB	.	LEU	LEU	A	A	78	78	.	8.375	13.165	-2.695	1.00	23.94	.
ATOM	1806	CG	CG	.	LEU	LEU	A	A	78	78	.	9.087	12.090	-1.857	1.00	28.15	.
ATOM	1807	CD1	CD1	.	LEU	LEU	A	A	78	78	.	10.256	12.715	-1.112	1.00	34.86	.
ATOM	1808	CD2	CD2	.	LEU	LEU	A	A	78	78	.	8.116	11.461	-0.871	1.00	37.55	.
ATOM	1809	N	N	.	ASN	ASN	A	A	79	79	.	8.934	11.967	-5.497	1.00	29.54	.
ATOM	1810	CA	CA	.	ASN	ASN	A	A	79	79	.	9.386	10.825	-6.288	1.00	40.63	.
ATOM	1811	C	C	.	ASN	ASN	A	A	79	79	.	9.692	11.159	-7.745	1.00	42.82	.
ATOM	1812	O	O	.	ASN	ASN	A	A	79	79	.	9.547	10.319	-8.635	1.00	39.17	.
ATOM	1813	CB	CB	.	ASN	ASN	A	A	79	79	.	8.355	9.697	-6.200	1.00	47.65	.
ATOM	1814	CG	CG	.	ASN	ASN	A	A	79	79	.	8.190	9.177	-4.778	1.00	54.90	.
ATOM	1815	OD1	OD1	.	ASN	ASN	A	A	79	79	.	9.164	8.766	-4.138	1.00	51.31	.
ATOM	1816	ND2	ND2	.	ASN	ASN	A	A	79	79	.	6.959	9.197	-4.276	1.00	46.54	.
ATOM	1817	N	N	.	ALA	ALA	A	A	80	80	.	10.133	12.391	-7.975	1.00	33.86	.
ATOM	1818	CA	CA	.	ALA	ALA	A	A	80	80	.	10.478	12.850	-9.310	1.00	33.05	.
ATOM	1819	C	C	.	ALA	ALA	A	A	80	80	.	11.880	13.436	-9.284	1.00	29.84	.
ATOM	1820	O	O	.	ALA	ALA	A	A	80	80	.	12.534	13.467	-8.245	1.00	30.27	.
ATOM	1821	CB	CB	.	ALA	ALA	A	A	80	80	.	9.483	13.904	-9.777	1.00	23.84	.
ATOM	1822	N	N	.	LYS	LYS	A	A	81	81	.	12.329	13.907	-10.439	1.00	32.52	.
ATOM	1823	CA	CA	.	LYS	LYS	A	A	81	81	.	13.643	14.513	-10.571	1.00	37.41	.
ATOM	1824	C	C	.	LYS	LYS	A	A	81	81	.	13.562	15.551	-11.685	1.00	34.14	.
ATOM	1825	O	O	.	LYS	LYS	A	A	81	81	.	12.721	15.450	-12.576	1.00	34.73	.
ATOM	1826	CB	CB	.	LYS	LYS	A	A	81	81	.	14.682	13.444	-10.916	1.00	42.02	.
ATOM	1827	CG	CG	.	LYS	LYS	A	A	81	81	.	14.334	12.647	-12.162	1.00	54.63	.
ATOM	1828	CD	CD	.	LYS	LYS	A	A	81	81	.	15.303	11.493	-12.388	1.00	61.26	.
ATOM	1829	CE	CE	.	LYS	LYS	A	A	81	81	.	14.849	10.624	-13.553	1.00	58.14	.
ATOM	1830	NZ	NZ	.	LYS	LYS	A	A	81	81	.	15.716	9.425	-13.721	1.00	60.61	.
ATOM	1831	N	N	.	CYS	CYS	A	A	82	82	.	14.429	16.552	-11.634	1.00	26.46	.
ATOM	1832	CA	CA	.	CYS	CYS	A	A	82	82	.	14.418	17.587	-12.651	1.00	28.66	.
ATOM	1833	C	C	.	CYS	CYS	A	A	82	82	.	15.801	18.190	-12.797	1.00	28.44	.
ATOM	1834	O	O	.	CYS	CYS	A	A	82	82	.	16.691	17.931	-11.994	1.00	38.48	.
ATOM	1835	CB	CB	.	CYS	CYS	A	A	82	82	.	13.449	18.693	-12.255	1.00	35.74	.
ATOM	1836	SG	SG	.	CYS	CYS	A	A	82	82	.	14.131	19.728	-10.921	1.00	39.46	.
ATOM	1837	N	N	.	ASN	ASN	A	A	83	83	.	15.968	19.011	-13.824	1.00	36.00	.
ATOM	1838	CA	CA	.	ASN	ASN	A	A	83	83	.	17.231	19.687	-14.076	1.00	37.06	.
ATOM	1839	C	C	.	ASN	ASN	A	A	83	83	.	17.028	21.187	-13.904	1.00	40.07	.
ATOM	1840	O	O	.	ASN	ASN	A	A	83	83	.	16.051	21.749	-14.402	1.00	35.61	.
ATOM	1841	CB	CB	.	ASN	ASN	A	A	83	83	.	17.704	19.394	-15.498	1.00	44.70	.
ATOM	1842	CG	CG	.	ASN	ASN	A	A	83	83	.	18.115	17.950	-15.686	1.00	44.20	.
ATOM	1843	OD1	OD1	.	ASN	ASN	A	A	83	83	.	17.957	17.386	-16.765	1.00	48.26	.
ATOM	1844	ND2	ND2	.	ASN	ASN	A	A	83	83	.	18.658	17.348	-14.637	1.00	0.00	.
ATOM	1845	N	N	.	ARG	ARG	A	A	84	84	.	17.940	21.835	-13.189	1.00	36.76	.
ATOM	1846	CA	CA	.	ARG	ARG	A	A	84	84	.	17.839	23.272	-12.986	1.00	36.21	.
ATOM	1847	C	C	.	ARG	ARG	A	A	84	84	.	17.563	23.901	-14.344	1.00	40.03	.
ATOM	1848	O	O	.	ARG	ARG	A	A	84	84	.	18.228	23.579	-15.329	1.00	42.96	.
ATOM	1849	CB	CB	.	ARG	ARG	A	A	84	84	.	19.144	23.825	-12.400	1.00	41.12	.
ATOM	1850	CG	CG	.	ARG	ARG	A	A	84	84	.	20.238	22.782	-12.202	1.00	60.84	.
ATOM	1851	CD	CD	.	ARG	ARG	A	A	84	84	.	20.753	22.251	-13.541	1.00	69.11	.
ATOM	1852	NE	NE	.	ARG	ARG	A	A	84	84	.	21.477	20.988	-13.400	1.00	63.86	.
ATOM	1853	CZ	CZ	.	ARG	ARG	A	A	84	84	.	21.979	20.299	-14.420	1.00	65.32	.
ATOM	1854	NH1	NH1	.	ARG	ARG	A	A	84	84	.	21.840	20.752	-15.661	1.00	55.45	.

ATOM	1855	NH2	NH2	.	ARG	ARG	A	A	84	84	.	22.611	19.152	-14.203	1.00	64.96	.
ATOM	1856	N	N	.	GLY	GLY	A	A	85	85	.	16.573	24.784	-14.405	1.00	31.47	.
ATOM	1857	CA	CA	.	GLY	GLY	A	A	85	85	.	16.245	25.415	-15.668	1.00	35.95	.
ATOM	1858	C	C	.	GLY	GLY	A	A	85	85	.	15.067	24.751	-16.359	1.00	38.44	.
ATOM	1859	O	O	.	GLY	GLY	A	A	85	85	.	14.492	25.311	-17.295	1.00	40.28	.
ATOM	1860	N	N	.	ASP	ASP	A	A	86	86	.	14.704	23.554	-15.908	1.00	32.62	.
ATOM	1861	CA	CA	.	ASP	ASP	A	A	86	86	.	13.573	22.841	-16.494	1.00	33.72	.
ATOM	1862	C	C	.	ASP	ASP	A	A	86	86	.	12.277	23.584	-16.207	1.00	34.44	.
ATOM	1863	O	O	.	ASP	ASP	A	A	86	86	.	12.047	24.039	-15.091	1.00	32.61	.
ATOM	1864	CB	CB	.	ASP	ASP	A	A	86	86	.	13.465	21.419	-15.931	1.00	31.68	.
ATOM	1865	CG	CG	.	ASP	ASP	A	A	86	86	.	14.491	20.478	-16.523	1.00	38.31	.
ATOM	1866	OD1	OD1	.	ASP	ASP	A	A	86	86	.	15.213	20.901	-17.451	1.00	28.40	.
ATOM	1867	OD2	OD2	.	ASP	ASP	A	A	86	86	.	14.568	19.316	-16.067	1.00	30.96	.
ATOM	1868	N	N	.	ALA	ALA	A	A	87	87	.	11.435	23.709	-17.224	1.00	32.83	.
ATOM	1869	CA	CA	.	ALA	ALA	A	A	87	87	.	10.160	24.378	-17.060	1.00	33.11	.
ATOM	1870	C	C	.	ALA	ALA	A	A	87	87	.	9.266	23.465	-16.245	1.00	27.79	.
ATOM	1871	O	O	.	ALA	ALA	A	A	87	87	.	9.398	22.244	-16.299	1.00	25.57	.
ATOM	1872	CB	CB	.	ALA	ALA	A	A	87	87	.	9.530	24.648	-18.420	1.00	34.78	.
ATOM	1873	N	N	.	ILE	ILE	A	A	88	88	.	8.371	24.055	-15.465	1.00	33.57	.
ATOM	1874	CA	CA	.	ILE	ILE	A	A	88	88	.	7.445	23.262	-14.674	1.00	29.69	.
ATOM	1875	C	C	.	ILE	ILE	A	A	88	88	.	6.117	23.309	-15.408	1.00	34.02	.
ATOM	1876	O	O	.	ILE	ILE	A	A	88	88	.	5.616	24.388	-15.733	1.00	27.55	.
ATOM	1877	CB	CB	.	ILE	ILE	A	A	88	88	.	7.271	23.831	-13.260	1.00	30.67	.
ATOM	1878	CG1	CG1	.	ILE	ILE	A	A	88	88	.	8.607	23.756	-12.514	1.00	34.91	.
ATOM	1879	CG2	CG2	.	ILE	ILE	A	A	88	88	.	6.190	23.047	-12.510	1.00	23.27	.
ATOM	1880	CD1	CD1	.	ILE	ILE	A	A	88	88	.	8.595	24.460	-11.196	1.00	38.11	.
ATOM	1881	N	N	.	LYS	LYS	A	A	89	89	.	5.558	22.137	-15.684	1.00	28.62	.
ATOM	1882	CA	CA	.	LYS	LYS	A	A	89	89	.	4.295	22.063	-16.395	1.00	32.16	.
ATOM	1883	C	C	.	LYS	LYS	A	A	89	89	.	3.146	22.147	-15.403	1.00	29.68	.
ATOM	1884	O	O	.	LYS	LYS	A	A	89	89	.	3.270	21.673	-14.274	1.00	23.85	.
ATOM	1885	CB	CB	.	LYS	LYS	A	A	89	89	.	4.216	20.748	-17.183	1.00	37.12	.
ATOM	1886	CG	CG	.	LYS	LYS	A	A	89	89	.	5.308	20.570	-18.252	1.00	37.96	.
ATOM	1887	CD	CD	.	LYS	LYS	A	A	89	89	.	6.674	20.298	-17.625	1.00	45.80	.
ATOM	1888	CE	CE	.	LYS	LYS	A	A	89	89	.	7.767	20.151	-18.678	1.00	55.66	.
ATOM	1889	NZ	NZ	.	LYS	LYS	A	A	89	89	.	9.095	19.841	-18.070	1.00	46.12	.
ATOM	1890	N	N	.	CYS	CYS	A	A	90	90	.	2.033	22.754	-15.816	1.00	26.67	.
ATOM	1891	CA	CA	.	CYS	CYS	A	A	90	90	.	0.869	22.867	-14.939	1.00	23.14	.
ATOM	1892	C	C	.	CYS	CYS	A	A	90	90	.	0.326	21.470	-14.695	1.00	22.14	.
ATOM	1893	O	O	.	CYS	CYS	A	A	90	90	.	0.307	20.637	-15.599	1.00	26.09	.
ATOM	1894	CB	CB	.	CYS	CYS	A	A	90	90	.	-0.208	23.775	-15.565	1.00	20.81	.
ATOM	1895	SG	SG	.	CYS	CYS	A	A	90	90	.	0.459	25.423	-15.967	1.00	32.21	.
ATOM	1896	N	N	.	GLY	GLY	A	A	91	91	.	-0.101	21.212	-13.466	1.00	19.38	.
ATOM	1897	CA	CA	.	GLY	GLY	A	A	91	91	.	-0.617	19.906	-13.128	1.00	18.94	.
ATOM	1898	C	C	.	GLY	GLY	A	A	91	91	.	0.451	19.055	-12.462	1.00	21.25	.
ATOM	1899	O	O	.	GLY	GLY	A	A	91	91	.	0.139	18.089	-11.768	1.00	24.01	.
ATOM	1900	N	N	.	ASP	ASP	A	A	92	92	.	1.716	19.397	-12.679	1.00	23.40	.
ATOM	1901	CA	CA	.	ASP	ASP	A	A	92	92	.	2.805	18.647	-12.057	1.00	27.21	.
ATOM	1902	C	C	.	ASP	ASP	A	A	92	92	.	2.929	19.006	-10.581	1.00	24.19	.
ATOM	1903	O	O	.	ASP	ASP	A	A	92	92	.	2.538	20.096	-10.164	1.00	19.26	.
ATOM	1904	CB	CB	.	ASP	ASP	A	A	92	92	.	4.135	18.940	-12.763	1.00	29.22	.
ATOM	1905	CG	CG	.	ASP	ASP	A	A	92	92	.	4.383	18.023	-13.950	1.00	37.68	.
ATOM	1906	OD1	OD1	.	ASP	ASP	A	A	92	92	.	5.420	18.201	-14.621	1.00	46.45	.
ATOM	1907	OD2	OD2	.	ASP	ASP	A	A	92	92	.	3.550	17.125	-14.207	1.00	36.00	.
ATOM	1908	N	N	.	LYS	LYS	A	A	93	93	.	3.458	18.077	-9.792	1.00	19.99	.
ATOM	1909	CA	CA	.	LYS	LYS	A	A	93	93	.	3.656	18.309	-8.371	1.00	20.83	.
ATOM	1910	C	C	.	LYS	LYS	A	A	93	93	.	5.057	18.863	-8.147	1.00	23.59	.
ATOM	1911	O	O	.	LYS	LYS	A	A	93	93	.	5.973	18.596	-8.929	1.00	16.09	.

ATOM	1912	CB	CB	.	LYS	LYS	A	A	93	93	.	3.483	17.006	-7.578	1.00	21.63	.
ATOM	1913	CG	CG	.	LYS	LYS	A	A	93	93	.	2.034	16.549	-7.484	1.00	30.33	.
ATOM	1914	CD	CD	.	LYS	LYS	A	A	93	93	.	1.861	15.336	-6.596	1.00	34.71	.
ATOM	1915	CE	CE	.	LYS	LYS	A	A	93	93	.	2.412	14.082	-7.244	1.00	38.03	.
ATOM	1916	NZ	NZ	.	LYS	LYS	A	A	93	93	.	2.061	12.880	-6.440	1.00	44.92	.
ATOM	1917	N	N	.	ILE	ILE	A	A	94	94	.	5.205	19.670	-7.103	1.00	18.64	.
ATOM	1918	CA	CA	.	ILE	ILE	A	A	94	94	.	6.497	20.235	-6.744	1.00	17.58	.
ATOM	1919	C	C	.	ILE	ILE	A	A	94	94	.	6.592	20.227	-5.234	1.00	14.82	.
ATOM	1920	O	O	.	ILE	ILE	A	A	94	94	.	5.646	19.861	-4.545	1.00	16.80	.
ATOM	1921	CB	CB	.	ILE	ILE	A	A	94	94	.	6.664	21.704	-7.191	1.00	15.70	.
ATOM	1922	CG1	CG1	.	ILE	ILE	A	A	94	94	.	5.602	22.588	-6.519	1.00	19.95	.
ATOM	1923	CG2	CG2	.	ILE	ILE	A	A	94	94	.	6.596	21.797	-8.696	1.00	21.39	.
ATOM	1924	CD1	CD1	.	ILE	ILE	A	A	94	94	.	5.786	24.090	-6.767	1.00	22.79	.
ATOM	1925	N	N	.	ARG	ARG	A	A	95	95	.	7.759	20.611	-4.739	1.00	17.95	.
ATOM	1926	CA	CA	.	ARG	ARG	A	A	95	95	.	8.006	20.746	-3.320	1.00	15.08	.
ATOM	1927	C	C	.	ARG	ARG	A	A	95	95	.	8.598	22.146	-3.202	1.00	13.78	.
ATOM	1928	O	O	.	ARG	ARG	A	A	95	95	.	9.250	22.626	-4.131	1.00	17.71	.
ATOM	1929	CB	CB	.	ARG	ARG	A	A	95	95	.	9.002	19.690	-2.831	1.00	16.03	.
ATOM	1930	CG	CG	.	ARG	ARG	A	A	95	95	.	8.366	18.332	-2.511	1.00	17.90	.
ATOM	1931	CD	CD	.	ARG	ARG	A	A	95	95	.	9.407	17.353	-1.983	1.00	18.32	.
ATOM	1932	NE	NE	.	ARG	ARG	A	A	95	95	.	10.409	17.079	-3.004	1.00	18.88	.
ATOM	1933	CZ	CZ	.	ARG	ARG	A	A	95	95	.	11.615	16.572	-2.769	1.00	23.43	.
ATOM	1934	NH1	NH1	.	ARG	ARG	A	A	95	95	.	11.985	16.274	-1.532	1.00	19.98	.
ATOM	1935	NH2	NH2	.	ARG	ARG	A	A	95	95	.	12.459	16.381	-3.778	1.00	14.71	.
ATOM	1936	N	N	.	LEU	LEU	A	A	96	96	.	8.355	22.815	-2.081	1.00	15.59	.
ATOM	1937	CA	CA	.	LEU	LEU	A	A	96	96	.	8.876	24.158	-1.891	1.00	15.09	.
ATOM	1938	C	C	.	LEU	LEU	A	A	96	96	.	9.756	24.196	-0.650	1.00	12.27	.
ATOM	1939	O	O	.	LEU	LEU	A	A	96	96	.	9.286	23.989	0.469	1.00	13.79	.
ATOM	1940	CB	CB	.	LEU	LEU	A	A	96	96	.	7.727	25.167	-1.753	1.00	20.55	.
ATOM	1941	CG	CG	.	LEU	LEU	A	A	96	96	.	6.961	25.509	-3.037	1.00	25.97	.
ATOM	1942	CD1	CD1	.	LEU	LEU	A	A	96	96	.	5.777	26.423	-2.716	1.00	23.11	.
ATOM	1943	CD2	CD2	.	LEU	LEU	A	A	96	96	.	7.908	26.199	-4.025	1.00	18.62	.
ATOM	1944	N	N	.	LYS	LYS	A	A	97	97	.	11.038	24.461	-0.867	1.00	15.43	.
ATOM	1945	CA	CA	.	LYS	LYS	A	A	97	97	.	12.008	24.523	0.218	1.00	13.62	.
ATOM	1946	C	C	.	LYS	LYS	A	A	97	97	.	12.199	25.938	0.767	1.00	13.33	.
ATOM	1947	O	O	.	LYS	LYS	A	A	97	97	.	12.454	26.876	0.008	1.00	16.33	.
ATOM	1948	CB	CB	.	LYS	LYS	A	A	97	97	.	13.350	23.989	-0.282	1.00	13.69	.
ATOM	1949	CG	CG	.	LYS	LYS	A	A	97	97	.	14.394	23.817	0.816	1.00	20.49	.
ATOM	1950	CD	CD	.	LYS	LYS	A	A	97	97	.	15.694	23.311	0.231	1.00	23.55	.
ATOM	1951	CE	CE	.	LYS	LYS	A	A	97	97	.	16.711	23.006	1.311	1.00	33.61	.
ATOM	1952	NZ	NZ	.	LYS	LYS	A	A	97	97	.	17.974	22.541	0.698	1.00	29.81	.
ATOM	1953	N	N	.	HIS	HIS	A	A	98	98	.	12.051	26.097	2.076	1.00	10.64	.
ATOM	1954	CA	CA	.	HIS	HIS	A	A	98	98	.	12.258	27.396	2.698	1.00	15.52	.
ATOM	1955	C	C	.	HIS	HIS	A	A	98	98	.	13.775	27.515	2.835	1.00	21.16	.
ATOM	1956	O	O	.	HIS	HIS	A	A	98	98	.	14.398	26.773	3.601	1.00	18.88	.
ATOM	1957	CB	CB	.	HIS	HIS	A	A	98	98	.	11.575	27.451	4.060	1.00	14.29	.
ATOM	1958	CG	CG	.	HIS	HIS	A	A	98	98	.	11.700	28.777	4.735	1.00	22.33	.
ATOM	1959	ND1	ND1	.	HIS	HIS	A	A	98	98	.	12.337	28.937	5.947	1.00	17.69	.
ATOM	1960	CD2	CD2	.	HIS	HIS	A	A	98	98	.	11.266	30.009	4.369	1.00	15.86	.
ATOM	1961	CE1	CE1	.	HIS	HIS	A	A	98	98	.	12.285	30.211	6.302	1.00	24.14	.
ATOM	1962	NE2	NE2	.	HIS	HIS	A	A	98	98	.	11.642	30.882	5.361	1.00	18.82	.
ATOM	1963	N	N	.	LEU	LEU	A	A	99	99	.	14.361	28.440	2.082	1.00	18.40	.
ATOM	1964	CA	CA	.	LEU	LEU	A	A	99	99	.	15.809	28.606	2.052	1.00	22.07	.
ATOM	1965	C	C	.	LEU	LEU	A	A	99	99	.	16.555	28.784	3.359	1.00	27.89	.
ATOM	1966	O	O	.	LEU	LEU	A	A	99	99	.	17.542	28.093	3.597	1.00	28.20	.
ATOM	1967	CB	CB	.	LEU	LEU	A	A	99	99	.	16.194	29.750	1.110	1.00	27.86	.
ATOM	1968	CG	CG	.	LEU	LEU	A	A	99	99	.	16.225	29.443	-0.389	1.00	37.42	.

ATOM	1969	CD1	CD1	. LEU	LEU	A	A	99	99	. 16.891	30.601	-1.115	1.00	39.90	.
ATOM	1970	CD2	CD2	. LEU	LEU	A	A	99	99	. 16.996	28.153	-0.647	1.00	39.14	.
ATOM	1971	N	N	. THR	THR	A	A	100	100	. 16.093	29.687	4.212	1.00	24.68	.
ATOM	1972	CA	CA	. THR	THR	A	A	100	100	. 16.798	29.937	5.461	1.00	33.21	.
ATOM	1973	C	C	. THR	THR	A	A	100	100	. 16.722	28.850	6.528	1.00	36.80	.
ATOM	1974	O	O	. THR	THR	A	A	100	100	. 17.573	28.815	7.416	1.00	36.81	.
ATOM	1975	CB	CB	. THR	THR	A	A	100	100	. 16.356	31.272	6.087	1.00	27.30	.
ATOM	1976	OG1	OG1	. THR	THR	A	A	100	100	. 14.966	31.212	6.413	1.00	22.45	.
ATOM	1977	CG2	CG2	. THR	THR	A	A	100	100	. 16.590	32.416	5.103	1.00	17.20	.
ATOM	1978	N	N	. THR	THR	A	A	101	101	. 15.727	27.966	6.463	1.00	26.74	.
ATOM	1979	CA	CA	. THR	THR	A	A	101	101	. 15.636	26.910	7.472	1.00	24.64	.
ATOM	1980	C	C	. THR	THR	A	A	101	101	. 15.772	25.507	6.895	1.00	26.22	.
ATOM	1981	O	O	. THR	THR	A	A	101	101	. 15.820	24.530	7.638	1.00	27.05	.
ATOM	1982	CB	CB	. THR	THR	A	A	101	101	. 14.323	26.990	8.266	1.00	23.10	.
ATOM	1983	OG1	OG1	. THR	THR	A	A	101	101	. 13.211	26.742	7.393	1.00	17.86	.
ATOM	1984	CG2	CG2	. THR	THR	A	A	101	101	. 14.182	28.365	8.907	1.00	25.16	.
ATOM	1985	N	N	. GLY	GLY	A	A	102	102	. 15.829	25.414	5.571	1.00	24.79	.
ATOM	1986	CA	CA	. GLY	GLY	A	A	102	102	. 15.984	24.126	4.920	1.00	32.71	.
ATOM	1987	C	C	. GLY	GLY	A	A	102	102	. 14.791	23.188	4.978	1.00	30.03	.
ATOM	1988	O	O	. GLY	GLY	A	A	102	102	. 14.891	22.032	4.561	1.00	2.31	.
ATOM	1989	N	N	. THR	THR	A	A	103	103	. 13.672	23.684	5.494	1.00	17.98	.
ATOM	1990	CA	CA	. THR	THR	A	A	103	103	. 12.443	22.912	5.613	1.00	19.89	.
ATOM	1991	C	C	. THR	THR	A	A	103	103	. 11.633	22.945	4.304	1.00	19.98	.
ATOM	1992	O	O	. THR	THR	A	A	103	103	. 12.005	23.638	3.352	1.00	15.58	.
ATOM	1993	CB	CB	. THR	THR	A	A	103	103	. 11.564	23.487	6.727	1.00	18.62	.
ATOM	1994	OG1	OG1	. THR	THR	A	A	103	103	. 11.433	24.896	6.525	1.00	23.14	.
ATOM	1995	CG2	CG2	. THR	THR	A	A	103	103	. 12.175	23.230	8.103	1.00	22.72	.
ATOM	1996	N	N	. PHE	PHE	A	A	104	104	. 10.527	22.202	4.269	1.00	17.92	.
ATOM	1997	CA	CA	. PHE	PHE	A	A	104	104	. 9.660	22.162	3.091	1.00	18.35	.
ATOM	1998	C	C	. PHE	PHE	A	A	104	104	. 8.216	22.527	3.435	1.00	18.27	.
ATOM	1999	O	O	. PHE	PHE	A	A	104	104	. 7.729	22.209	4.521	1.00	23.05	.
ATOM	2000	CB	CB	. PHE	PHE	A	A	104	104	. 9.677	20.766	2.441	1.00	22.41	.
ATOM	2001	CG	CG	. PHE	PHE	A	A	104	104	. 10.881	20.508	1.571	1.00	21.72	.
ATOM	2002	CD1	CD1	. PHE	PHE	A	A	104	104	. 12.033	19.938	2.100	1.00	18.02	.
ATOM	2003	CD2	CD2	. PHE	PHE	A	A	104	104	. 10.862	20.853	0.220	1.00	15.54	.
ATOM	2004	CE1	CE1	. PHE	PHE	A	A	104	104	. 13.153	19.714	1.301	1.00	15.30	.
ATOM	2005	CE2	CE2	. PHE	PHE	A	A	104	104	. 11.972	20.635	-0.586	1.00	13.76	.
ATOM	2006	CZ	CZ	. PHE	PHE	A	A	104	104	. 13.125	20.061	-0.043	1.00	20.90	.
ATOM	2007	N	N	. LEU	LEU	A	A	105	105	. 7.531	23.203	2.514	1.00	19.81	.
ATOM	2008	CA	CA	. LEU	LEU	A	A	105	105	. 6.138	23.563	2.738	1.00	12.06	.
ATOM	2009	C	C	. LEU	LEU	A	A	105	105	. 5.438	22.218	2.927	1.00	17.67	.
ATOM	2010	O	O	. LEU	LEU	A	A	105	105	. 5.489	21.349	2.049	1.00	19.96	.
ATOM	2011	CB	CB	. LEU	LEU	A	A	105	105	. 5.577	24.275	1.516	1.00	16.62	.
ATOM	2012	CG	CG	. LEU	LEU	A	A	105	105	. 4.212	24.914	1.717	1.00	15.69	.
ATOM	2013	CD1	CD1	. LEU	LEU	A	A	105	105	. 4.312	26.011	2.790	1.00	15.71	.
ATOM	2014	CD2	CD2	. LEU	LEU	A	A	105	105	. 3.731	25.482	0.393	1.00	13.78	.
ATOM	2015	N	N	. HIS	HIS	A	A	106	106	. 4.760	22.064	4.053	1.00	17.70	.
ATOM	2016	CA	CA	. HIS	HIS	A	A	106	106	. 4.142	20.790	4.398	1.00	24.95	.
ATOM	2017	C	C	. HIS	HIS	A	A	106	106	. 2.703	20.897	4.873	1.00	22.73	.
ATOM	2018	O	O	. HIS	HIS	A	A	106	106	. 2.281	21.926	5.403	1.00	22.46	.
ATOM	2019	CB	CB	. HIS	HIS	A	A	106	106	. 4.980	20.163	5.517	1.00	20.61	.
ATOM	2020	CG	CG	. HIS	HIS	A	A	106	106	. 4.663	18.731	5.808	1.00	20.55	.
ATOM	2021	ND1	ND1	. HIS	HIS	A	A	106	106	. 5.308	17.686	5.179	1.00	22.75	.
ATOM	2022	CD2	CD2	. HIS	HIS	A	A	106	106	. 3.828	18.168	6.714	1.00	29.16	.
ATOM	2023	CE1	CE1	. HIS	HIS	A	A	106	106	. 4.889	16.542	5.692	1.00	23.47	.
ATOM	2024	NE2	NE2	. HIS	HIS	A	A	106	106	. 3.992	16.806	6.625	1.00	22.42	.
ATOM	2025	N	N	. SER	SER	A	A	107	107	. 1.942	19.829	4.660	1.00	23.14	.

ATOM	2026	CA	CA	.	SER	SER	A	A	107	107	.	0.577	19.790	5.151	1.00	21.91	.
ATOM	2027	C	C	.	SER	SER	A	A	107	107	.	0.251	18.388	5.633	1.00	27.58	.
ATOM	2028	O	O	.	SER	SER	A	A	107	107	.	0.973	17.428	5.347	1.00	20.45	.
ATOM	2029	CB	CB	.	SER	SER	A	A	107	107	.	-0.431	20.235	4.105	1.00	21.58	.
ATOM	2030	OG	OG	.	SER	SER	A	A	107	107	.	-1.569	20.755	4.782	1.00	20.62	.
ATOM	2031	N	N	.	HIS	HIS	A	A	108	108	.	-0.845	18.276	6.366	1.00	31.87	.
ATOM	2032	CA	CA	.	HIS	HIS	A	A	108	108	.	-1.229	17.006	6.952	1.00	33.03	.
ATOM	2033	C	C	.	HIS	HIS	A	A	108	108	.	-2.559	17.152	7.669	1.00	33.58	.
ATOM	2034	O	O	.	HIS	HIS	A	A	108	108	.	-3.193	18.205	7.603	1.00	29.61	.
ATOM	2035	CB	CB	.	HIS	HIS	A	A	108	108	.	-0.138	16.579	7.932	1.00	30.72	.
ATOM	2036	CG	CG	.	HIS	HIS	A	A	108	108	.	0.470	17.723	8.686	1.00	28.32	.
ATOM	2037	ND1	ND1	.	HIS	HIS	A	A	108	108	.	1.662	17.615	9.368	1.00	27.84	.
ATOM	2038	CD2	CD2	.	HIS	HIS	A	A	108	108	.	0.050	18.999	8.864	1.00	29.18	.
ATOM	2039	CE1	CE1	.	HIS	HIS	A	A	108	108	.	1.950	18.775	9.932	1.00	32.72	.
ATOM	2040	NE2	NE2	.	HIS	HIS	A	A	108	108	.	0.988	19.632	9.641	1.00	22.60	.
ATOM	2041	N	N	.	HIS	HIS	A	A	109	109	.	-2.973	16.094	8.360	1.00	39.24	.
ATOM	2042	CA	CA	.	HIS	HIS	A	A	109	109	.	-4.242	16.103	9.068	1.00	43.99	.
ATOM	2043	C	C	.	HIS	HIS	A	A	109	109	.	-4.240	16.710	10.467	1.00	41.96	.
ATOM	2044	O	O	.	HIS	HIS	A	A	109	109	.	-4.641	16.063	11.431	1.00	44.14	.
ATOM	2045	CB	CB	.	HIS	HIS	A	A	109	109	.	-4.819	14.686	9.134	1.00	49.87	.
ATOM	2046	CG	CG	.	HIS	HIS	A	A	109	109	.	-5.489	14.250	7.869	1.00	61.18	.
ATOM	2047	ND1	ND1	.	HIS	HIS	A	A	109	109	.	-6.470	14.997	7.253	1.00	65.80	.
ATOM	2048	CD2	CD2	.	HIS	HIS	A	A	109	109	.	-5.337	13.134	7.116	1.00	68.17	.
ATOM	2049	CE1	CE1	.	HIS	HIS	A	A	109	109	.	-6.894	14.361	6.176	1.00	66.87	.
ATOM	2050	NE2	NE2	.	HIS	HIS	A	A	109	109	.	-6.224	13.228	6.070	1.00	68.33	.
ATOM	2051	N	N	.	PHE	PHE	A	A	110	110	.	-3.777	17.947	10.577	1.00	36.73	.
ATOM	2052	CA	CA	.	PHE	PHE	A	A	110	110	.	-3.791	18.642	11.854	1.00	38.47	.
ATOM	2053	C	C	.	PHE	PHE	A	A	110	110	.	-4.641	19.884	11.631	1.00	34.69	.
ATOM	2054	O	O	.	PHE	PHE	A	A	110	110	.	-4.807	20.331	10.498	1.00	39.03	.
ATOM	2055	CB	CB	.	PHE	PHE	A	A	110	110	.	-2.376	19.033	12.305	1.00	37.20	.
ATOM	2056	CG	CG	.	PHE	PHE	A	A	110	110	.	-1.517	17.863	12.708	1.00	36.66	.
ATOM	2057	CD1	CD1	.	PHE	PHE	A	A	110	110	.	-0.729	17.204	11.773	1.00	38.68	.
ATOM	2058	CD2	CD2	.	PHE	PHE	A	A	110	110	.	-1.504	17.416	14.026	1.00	40.00	.
ATOM	2059	CE1	CE1	.	PHE	PHE	A	A	110	110	.	0.065	16.111	12.144	1.00	49.27	.
ATOM	2060	CE2	CE2	.	PHE	PHE	A	A	110	110	.	-0.718	16.328	14.409	1.00	42.84	.
ATOM	2061	CZ	CZ	.	PHE	PHE	A	A	110	110	.	0.070	15.673	13.465	1.00	47.93	.
ATOM	2062	N	N	.	THR	THR	A	A	111	111	.	-5.187	20.439	12.704	1.00	40.91	.
ATOM	2063	CA	CA	.	THR	THR	A	A	111	111	.	-6.035	21.617	12.586	1.00	38.98	.
ATOM	2064	C	C	.	THR	THR	A	A	111	111	.	-5.197	22.895	12.590	1.00	38.77	.
ATOM	2065	O	O	.	THR	THR	A	A	111	111	.	-4.199	22.988	13.308	1.00	40.14	.
ATOM	2066	CB	CB	.	THR	THR	A	A	111	111	.	-7.059	21.661	13.739	1.00	41.08	.
ATOM	2067	OG1	OG1	.	THR	THR	A	A	111	111	.	-8.103	22.589	13.421	1.00	52.27	.
ATOM	2068	CG2	CG2	.	THR	THR	A	A	111	111	.	-6.384	22.090	15.033	1.00	43.62	.
ATOM	2069	N	N	.	ALA	ALA	A	A	112	112	.	-5.600	23.870	11.777	1.00	31.39	.
ATOM	2070	CA	CA	.	ALA	ALA	A	A	112	112	.	-4.892	25.147	11.689	1.00	37.46	.
ATOM	2071	C	C	.	ALA	ALA	A	A	112	112	.	-4.776	25.762	13.081	1.00	40.25	.
ATOM	2072	O	O	.	ALA	ALA	A	A	112	112	.	-5.578	25.461	13.967	1.00	42.76	.
ATOM	2073	CB	CB	.	ALA	ALA	A	A	112	112	.	-5.637	26.100	10.753	1.00	30.39	.
ATOM	2074	N	N	.	PRO	PRO	A	A	113	113	.	-3.775	26.634	13.292	1.00	38.42	.
ATOM	2075	CA	CA	.	PRO	PRO	A	A	113	113	.	-3.566	27.283	14.592	1.00	35.67	.
ATOM	2076	C	C	.	PRO	PRO	A	A	113	113	.	-4.660	28.247	15.060	1.00	37.03	.
ATOM	2077	O	O	.	PRO	PRO	A	A	113	113	.	-5.039	28.223	16.226	1.00	40.77	.
ATOM	2078	CB	CB	.	PRO	PRO	A	A	113	113	.	-2.219	27.976	14.416	1.00	29.83	.
ATOM	2079	CG	CG	.	PRO	PRO	A	A	113	113	.	-2.207	28.311	12.961	1.00	29.44	.
ATOM	2080	CD	CD	.	PRO	PRO	A	A	113	113	.	-2.730	27.038	12.336	1.00	36.05	.
ATOM	2081	N	N	.	LEU	LEU	A	A	114	114	.	-5.161	29.094	14.166	1.00	35.63	.
ATOM	2082	CA	CA	.	LEU	LEU	A	A	114	114	.	-6.199	30.054	14.543	1.00	36.64	.

ATOM	2083	C	C	.	LEU	LEU	A	A	114	114	.	-7.538	29.759	13.885	1.00	42.63	.
ATOM	2084	O	O	.	LEU	LEU	A	A	114	114	.	-8.577	30.242	14.335	1.00	47.02	.
ATOM	2085	CB	CB	.	LEU	LEU	A	A	114	114	.	-5.770	31.482	14.186	1.00	38.74	.
ATOM	2086	CG	CG	.	LEU	LEU	A	A	114	114	.	-4.469	32.010	14.799	1.00	40.77	.
ATOM	2087	CD1	CD1	.	LEU	LEU	A	A	114	114	.	-4.199	33.410	14.273	1.00	39.69	.
ATOM	2088	CD2	CD2	.	LEU	LEU	A	A	114	114	.	-4.567	32.014	16.317	1.00	40.79	.
ATOM	2089	N	N	.	SER	SER	A	A	115	115	.	-7.516	28.975	12.814	1.00	36.08	.
ATOM	2090	CA	CA	.	SER	SER	A	A	115	115	.	-8.748	28.622	12.118	1.00	41.78	.
ATOM	2091	C	C	.	SER	SER	A	A	115	115	.	-9.025	27.134	12.273	1.00	42.25	.
ATOM	2092	O	O	.	SER	SER	A	A	115	115	.	-8.560	26.311	11.485	1.00	39.09	.
ATOM	2093	CB	CB	.	SER	SER	A	A	115	115	.	-8.648	28.993	10.640	1.00	39.54	.
ATOM	2094	OG	OG	.	SER	SER	A	A	115	115	.	-8.555	30.397	10.489	1.00	35.31	.
ATOM	2095	N	N	.	LYS	LYS	A	A	116	116	.	-9.793	26.805	13.306	1.00	45.24	.
ATOM	2096	CA	CA	.	LYS	LYS	A	A	116	116	.	-10.150	25.427	13.623	1.00	45.06	.
ATOM	2097	C	C	.	LYS	LYS	A	A	116	116	.	-10.745	24.637	12.459	1.00	42.14	.
ATOM	2098	O	O	.	LYS	LYS	A	A	116	116	.	-10.520	23.428	12.343	1.00	43.54	.
ATOM	2099	CB	CB	.	LYS	LYS	A	A	116	116	.	-11.137	25.416	14.792	1.00	48.52	.
ATOM	2100	CG	CG	.	LYS	LYS	A	A	116	116	.	-10.577	25.958	16.099	1.00	52.57	.
ATOM	2101	CD	CD	.	LYS	LYS	A	A	116	116	.	-9.574	24.998	16.722	1.00	57.98	.
ATOM	2102	CE	CE	.	LYS	LYS	A	A	116	116	.	-9.225	25.410	18.150	1.00	61.18	.
ATOM	2103	NZ	NZ	.	LYS	LYS	A	A	116	116	.	-8.426	24.369	18.872	1.00	58.28	.
ATOM	2104	N	N	.	GLN	GLN	A	A	117	117	.	-11.506	25.313	11.603	1.00	36.04	.
ATOM	2105	CA	CA	.	GLN	GLN	A	A	117	117	.	-12.144	24.651	10.471	1.00	38.17	.
ATOM	2106	C	C	.	GLN	GLN	A	A	117	117	.	-11.180	24.309	9.346	1.00	40.86	.
ATOM	2107	O	O	.	GLN	GLN	A	A	117	117	.	-11.542	23.597	8.403	1.00	39.81	.
ATOM	2108	CB	CB	.	GLN	GLN	A	A	117	117	.	-13.268	25.517	9.898	1.00	38.01	.
ATOM	2109	CG	CG	.	GLN	GLN	A	A	117	117	.	-13.562	26.811	10.649	1.00	49.40	.
ATOM	2110	CD	CD	.	GLN	GLN	A	A	117	117	.	-12.477	27.862	10.496	1.00	36.04	.
ATOM	2111	OE1	OE1	.	GLN	GLN	A	A	117	117	.	-11.435	27.796	11.147	1.00	47.61	.
ATOM	2112	NE2	NE2	.	GLN	GLN	A	A	117	117	.	-12.717	28.838	9.626	1.00	30.21	.
ATOM	2113	N	N	.	HIS	HIS	A	A	118	118	.	-9.956	24.816	9.436	1.00	35.91	.
ATOM	2114	CA	CA	.	HIS	HIS	A	A	118	118	.	-8.986	24.558	8.392	1.00	31.16	.
ATOM	2115	C	C	.	HIS	HIS	A	A	118	118	.	-7.818	23.680	8.799	1.00	35.68	.
ATOM	2116	O	O	.	HIS	HIS	A	A	118	118	.	-7.559	23.449	9.983	1.00	37.44	.
ATOM	2117	CB	CB	.	HIS	HIS	A	A	118	118	.	-8.483	25.879	7.805	1.00	34.15	.
ATOM	2118	CG	CG	.	HIS	HIS	A	A	118	118	.	-9.538	26.639	7.062	1.00	30.13	.
ATOM	2119	ND1	ND1	.	HIS	HIS	A	A	118	118	.	-10.397	26.033	6.170	1.00	34.64	.
ATOM	2120	CD2	CD2	.	HIS	HIS	A	A	118	118	.	-9.865	27.952	7.065	1.00	30.49	.
ATOM	2121	CE1	CE1	.	HIS	HIS	A	A	118	118	.	-11.207	26.939	5.653	1.00	34.06	.
ATOM	2122	NE2	NE2	.	HIS	HIS	A	A	118	118	.	-10.905	28.113	6.180	1.00	36.14	.
ATOM	2123	N	N	.	GLN	GLN	A	A	119	119	.	-7.123	23.195	7.779	1.00	32.92	.
ATOM	2124	CA	CA	.	GLN	GLN	A	A	119	119	.	-5.981	22.314	7.928	1.00	29.72	.
ATOM	2125	C	C	.	GLN	GLN	A	A	119	119	.	-4.700	23.125	8.113	1.00	32.33	.
ATOM	2126	O	O	.	GLN	GLN	A	A	119	119	.	-4.536	24.193	7.520	1.00	26.83	.
ATOM	2127	CB	CB	.	GLN	GLN	A	A	119	119	.	-5.902	21.440	6.681	1.00	33.59	.
ATOM	2128	CG	CG	.	GLN	GLN	A	A	119	119	.	-4.839	20.371	6.665	1.00	35.49	.
ATOM	2129	CD	CD	.	GLN	GLN	A	A	119	119	.	-4.978	19.492	5.440	1.00	44.06	.
ATOM	2130	OE1	OE1	.	GLN	GLN	A	A	119	119	.	-5.926	18.710	5.330	1.00	45.61	.
ATOM	2131	NE2	NE2	.	GLN	GLN	A	A	119	119	.	-4.051	19.631	4.499	1.00	27.33	.
ATOM	2132	N	N	.	GLU	GLU	A	A	120	120	.	-3.801	22.607	8.943	1.00	27.21	.
ATOM	2133	CA	CA	.	GLU	GLU	A	A	120	120	.	-2.532	23.262	9.239	1.00	31.98	.
ATOM	2134	C	C	.	GLU	GLU	A	A	120	120	.	-1.547	23.161	8.081	1.00	33.12	.
ATOM	2135	O	O	.	GLU	GLU	A	A	120	120	.	-1.504	22.158	7.367	1.00	27.43	.
ATOM	2136	CB	CB	.	GLU	GLU	A	A	120	120	.	-1.888	22.625	10.477	1.00	26.34	.
ATOM	2137	CG	CG	.	GLU	GLU	A	A	120	120	.	-0.662	23.351	11.017	1.00	26.41	.
ATOM	2138	CD	CD	.	GLU	GLU	A	A	120	120	.	0.187	22.473	11.936	1.00	37.34	.
ATOM	2139	OE1	OE1	.	GLU	GLU	A	A	120	120	.	1.036	21.709	11.424	1.00	34.01	.

ATOM	2140	OE2	OE2	.	GLU	GLU	A	A	120	120	.	0.002	22.537	13.170	1.00	34.00	.
ATOM	2141	N	N	.	VAL	VAL	A	A	121	121	.	-0.760	24.217	7.902	1.00	28.68	.
ATOM	2142	CA	CA	.	VAL	VAL	A	A	121	121	.	0.268	24.247	6.874	1.00	18.26	.
ATOM	2143	C	C	.	VAL	VAL	A	A	121	121	.	1.545	24.589	7.631	1.00	15.73	.
ATOM	2144	O	O	.	VAL	VAL	A	A	121	121	.	1.594	25.571	8.356	1.00	22.39	.
ATOM	2145	CB	CB	.	VAL	VAL	A	A	121	121	.	-0.030	25.307	5.796	1.00	22.34	.
ATOM	2146	CG1	CG1	.	VAL	VAL	A	A	121	121	.	1.180	25.476	4.887	1.00	16.48	.
ATOM	2147	CG2	CG2	.	VAL	VAL	A	A	121	121	.	-1.234	24.868	4.967	1.00	26.65	.
ATOM	2148	N	N	.	SER	SER	A	A	122	122	.	2.577	23.775	7.469	1.00	17.73	.
ATOM	2149	CA	CA	.	SER	SER	A	A	122	122	.	3.819	23.998	8.198	1.00	16.30	.
ATOM	2150	C	C	.	SER	SER	A	A	122	122	.	5.046	23.909	7.313	1.00	19.39	.
ATOM	2151	O	O	.	SER	SER	A	A	122	122	.	4.944	23.637	6.117	1.00	18.32	.
ATOM	2152	CB	CB	.	SER	SER	A	A	122	122	.	3.926	22.959	9.317	1.00	19.03	.
ATOM	2153	OG	OG	.	SER	SER	A	A	122	122	.	3.913	21.644	8.768	1.00	21.56	.
ATOM	2154	N	N	.	ALA	ALA	A	A	123	123	.	6.206	24.166	7.912	1.00	16.70	.
ATOM	2155	CA	CA	.	ALA	ALA	A	A	123	123	.	7.491	24.070	7.228	1.00	16.07	.
ATOM	2156	C	C	.	ALA	ALA	A	A	123	123	.	8.106	22.862	7.935	1.00	26.23	.
ATOM	2157	O	O	.	ALA	ALA	A	A	123	123	.	8.424	22.925	9.125	1.00	20.74	.
ATOM	2158	CB	CB	.	ALA	ALA	A	A	123	123	.	8.319	25.312	7.470	1.00	20.94	.
ATOM	2159	N	N	.	PHE	PHE	A	A	124	124	.	8.253	21.762	7.206	1.00	21.78	.
ATOM	2160	CA	CA	.	PHE	PHE	A	A	124	124	.	8.747	20.532	7.802	1.00	27.82	.
ATOM	2161	C	C	.	PHE	PHE	A	A	124	124	.	10.034	19.914	7.269	1.00	21.85	.
ATOM	2162	O	O	.	PHE	PHE	A	A	124	124	.	10.472	20.181	6.149	1.00	23.70	.
ATOM	2163	CB	CB	.	PHE	PHE	A	A	124	124	.	7.610	19.489	7.760	1.00	33.17	.
ATOM	2164	CG	CG	.	PHE	PHE	A	A	124	124	.	8.069	18.065	7.962	1.00	46.24	.
ATOM	2165	CD1	CD1	.	PHE	PHE	A	A	124	124	.	8.414	17.266	6.870	1.00	50.24	.
ATOM	2166	CD2	CD2	.	PHE	PHE	A	A	124	124	.	8.184	17.534	9.242	1.00	44.44	.
ATOM	2167	CE1	CE1	.	PHE	PHE	A	A	124	124	.	8.867	15.956	7.053	1.00	55.94	.
ATOM	2168	CE2	CE2	.	PHE	PHE	A	A	124	124	.	8.636	16.229	9.438	1.00	50.06	.
ATOM	2169	CZ	CZ	.	PHE	PHE	A	A	124	124	.	8.979	15.438	8.340	1.00	50.60	.
ATOM	2170	N	N	.	GLY	GLY	A	A	125	125	.	10.644	19.095	8.126	1.00	28.18	.
ATOM	2171	CA	CA	.	GLY	GLY	A	A	125	125	.	11.848	18.361	7.784	1.00	18.74	.
ATOM	2172	C	C	.	GLY	GLY	A	A	125	125	.	13.020	19.002	7.077	1.00	19.21	.
ATOM	2173	O	O	.	GLY	GLY	A	A	125	125	.	13.539	20.031	7.508	1.00	25.00	.
ATOM	2174	N	N	.	SER	SER	A	A	126	126	.	13.442	18.355	5.992	1.00	15.81	.
ATOM	2175	CA	CA	.	SER	SER	A	A	126	126	.	14.588	18.768	5.186	1.00	17.95	.
ATOM	2176	C	C	.	SER	SER	A	A	126	126	.	14.617	17.850	3.971	1.00	11.07	.
ATOM	2177	O	O	.	SER	SER	A	A	126	126	.	13.721	17.039	3.796	1.00	23.18	.
ATOM	2178	CB	CB	.	SER	SER	A	A	126	126	.	15.879	18.560	5.977	1.00	36.05	.
ATOM	2179	OG	OG	.	SER	SER	A	A	126	126	.	16.071	17.171	6.227	1.00	32.55	.
ATOM	2180	N	N	.	GLU	GLU	A	A	127	127	.	15.651	17.953	3.145	1.00	18.71	.
ATOM	2181	CA	CA	.	GLU	GLU	A	A	127	127	.	15.739	17.092	1.972	1.00	25.35	.
ATOM	2182	C	C	.	GLU	GLU	A	A	127	127	.	15.793	15.623	2.384	1.00	32.33	.
ATOM	2183	O	O	.	GLU	GLU	A	A	127	127	.	15.260	14.748	1.694	1.00	28.03	.
ATOM	2184	CB	CB	.	GLU	GLU	A	A	127	127	.	16.974	17.445	1.139	1.00	26.06	.
ATOM	2185	CG	CG	.	GLU	GLU	A	A	127	127	.	16.824	18.743	0.372	1.00	30.24	.
ATOM	2186	CD	CD	.	GLU	GLU	A	A	127	127	.	18.035	19.083	-0.462	1.00	32.52	.
ATOM	2187	OE1	OE1	.	GLU	GLU	A	A	127	127	.	18.489	18.227	-1.254	1.00	36.10	.
ATOM	2188	OE2	OE2	.	GLU	GLU	A	A	127	127	.	18.527	20.219	-0.333	1.00	30.08	.
ATOM	2189	N	N	.	ALA	ALA	A	A	128	128	.	16.435	15.362	3.518	1.00	34.35	.
ATOM	2190	CA	CA	.	ALA	ALA	A	A	128	128	.	16.571	14.004	4.028	1.00	31.82	.
ATOM	2191	C	C	.	ALA	ALA	A	A	128	128	.	15.270	13.459	4.605	1.00	23.86	.
ATOM	2192	O	O	.	ALA	ALA	A	A	128	128	.	14.964	12.287	4.424	1.00	24.55	.
ATOM	2193	CB	CB	.	ALA	ALA	A	A	128	128	.	17.669	13.953	5.093	1.00	29.10	.
ATOM	2194	N	N	.	GLU	GLU	A	A	129	129	.	14.506	14.301	5.294	1.00	21.94	.
ATOM	2195	CA	CA	.	GLU	GLU	A	A	129	129	.	13.254	13.857	5.911	1.00	23.13	.
ATOM	2196	C	C	.	GLU	GLU	A	A	129	129	.	12.007	14.032	5.043	1.00	21.98	.

ATOM	2197	O	O	.	GLU	GLU	A	A	129	129	.	10.924	13.589	5.417	1.00	24.31	.
ATOM	2198	CB	CB	.	GLU	GLU	A	A	129	129	.	13.005	14.615	7.214	1.00	16.36	.
ATOM	2199	CG	CG	.	GLU	GLU	A	A	129	129	.	14.116	14.538	8.242	1.00	20.95	.
ATOM	2200	CD	CD	.	GLU	GLU	A	A	129	129	.	13.968	15.613	9.293	1.00	14.22	.
ATOM	2201	OE1	OE1	.	GLU	GLU	A	A	129	129	.	13.264	15.391	10.298	1.00	30.84	.
ATOM	2202	OE2	OE2	.	GLU	GLU	A	A	129	129	.	14.541	16.704	9.097	1.00	30.97	.
ATOM	2203	N	N	.	SER	SER	A	A	130	130	.	12.153	14.704	3.911	1.00	22.32	.
ATOM	2204	CA	CA	.	SER	SER	A	A	130	130	.	11.019	14.970	3.029	1.00	27.80	.
ATOM	2205	C	C	.	SER	SER	A	A	130	130	.	10.224	13.723	2.638	1.00	28.32	.
ATOM	2206	O	O	.	SER	SER	A	A	130	130	.	10.803	12.685	2.311	1.00	26.71	.
ATOM	2207	CB	CB	.	SER	SER	A	A	130	130	.	11.511	15.679	1.766	1.00	31.02	.
ATOM	2208	OG	OG	.	SER	SER	A	A	130	130	.	10.430	16.019	0.911	1.00	27.26	.
ATOM	2209	N	N	.	ASP	ASP	A	A	131	131	.	8.897	13.838	2.682	1.00	27.76	.
ATOM	2210	CA	CA	.	ASP	ASP	A	A	131	131	.	7.997	12.744	2.305	1.00	33.60	.
ATOM	2211	C	C	.	ASP	ASP	A	A	131	131	.	6.868	13.257	1.406	1.00	28.61	.
ATOM	2212	O	O	.	ASP	ASP	A	A	131	131	.	6.863	14.429	1.025	1.00	28.09	.
ATOM	2213	CB	CB	.	ASP	ASP	A	A	131	131	.	7.409	12.053	3.547	1.00	27.91	.
ATOM	2214	CG	CG	.	ASP	ASP	A	A	131	131	.	6.581	12.987	4.416	1.00	30.93	.
ATOM	2215	OD1	OD1	.	ASP	ASP	A	A	131	131	.	5.915	13.897	3.879	1.00	32.83	.
ATOM	2216	OD2	OD2	.	ASP	ASP	A	A	131	131	.	6.576	12.793	5.651	1.00	35.70	.
ATOM	2217	N	N	.	THR	THR	A	A	132	132	.	5.912	12.389	1.076	1.00	26.65	.
ATOM	2218	CA	CA	.	THR	THR	A	A	132	132	.	4.792	12.765	0.202	1.00	25.17	.
ATOM	2219	C	C	.	THR	THR	A	A	132	132	.	3.985	13.963	0.716	1.00	23.58	.
ATOM	2220	O	O	.	THR	THR	A	A	132	132	.	3.286	14.632	-0.053	1.00	20.37	.
ATOM	2221	CB	CB	.	THR	THR	A	A	132	132	.	3.815	11.574	-0.018	1.00	21.23	.
ATOM	2222	OG1	OG1	.	THR	THR	A	A	132	132	.	3.251	11.168	1.236	1.00	25.42	.
ATOM	2223	CG2	CG2	.	THR	THR	A	A	132	132	.	4.538	10.402	-0.646	1.00	31.36	.
ATOM	2224	N	N	.	GLY	GLY	A	A	133	133	.	4.073	14.225	2.015	1.00	19.33	.
ATOM	2225	CA	CA	.	GLY	GLY	A	A	133	133	.	3.352	15.350	2.587	1.00	16.23	.
ATOM	2226	C	C	.	GLY	GLY	A	A	133	133	.	3.873	16.700	2.108	1.00	17.50	.
ATOM	2227	O	O	.	GLY	GLY	A	A	133	133	.	3.232	17.727	2.341	1.00	21.71	.
ATOM	2228	N	N	.	ASP	ASP	A	A	134	134	.	5.028	16.704	1.446	1.00	14.38	.
ATOM	2229	CA	CA	.	ASP	ASP	A	A	134	134	.	5.629	17.937	0.943	1.00	14.69	.
ATOM	2230	C	C	.	ASP	ASP	A	A	134	134	.	5.219	18.256	-0.499	1.00	22.75	.
ATOM	2231	O	O	.	ASP	ASP	A	A	134	134	.	5.552	19.331	-1.006	1.00	17.00	.
ATOM	2232	CB	CB	.	ASP	ASP	A	A	134	134	.	7.166	17.865	0.992	1.00	11.31	.
ATOM	2233	CG	CG	.	ASP	ASP	A	A	134	134	.	7.715	17.735	2.412	1.00	20.68	.
ATOM	2234	OD1	OD1	.	ASP	ASP	A	A	134	134	.	7.095	18.274	3.349	1.00	20.93	.
ATOM	2235	OD2	OD2	.	ASP	ASP	A	A	134	134	.	8.787	17.108	2.578	1.00	19.47	.
ATOM	2236	N	N	.	ASP	ASP	A	A	135	135	.	4.506	17.327	-1.148	1.00	16.29	.
ATOM	2237	CA	CA	.	ASP	ASP	A	A	135	135	.	4.085	17.507	-2.539	1.00	15.04	.
ATOM	2238	C	C	.	ASP	ASP	A	A	135	135	.	2.864	18.407	-2.746	1.00	11.53	.
ATOM	2239	O	O	.	ASP	ASP	A	A	135	135	.	1.827	18.226	-2.110	1.00	18.19	.
ATOM	2240	CB	CB	.	ASP	ASP	A	A	135	135	.	3.791	16.150	-3.203	1.00	21.95	.
ATOM	2241	CG	CG	.	ASP	ASP	A	A	135	135	.	5.044	15.313	-3.441	1.00	30.84	.
ATOM	2242	OD1	OD1	.	ASP	ASP	A	A	135	135	.	6.156	15.881	-3.552	1.00	24.55	.
ATOM	2243	OD2	OD2	.	ASP	ASP	A	A	135	135	.	4.905	14.071	-3.538	1.00	28.43	.
ATOM	2244	N	N	.	TRP	TRP	A	A	136	136	.	2.996	19.359	-3.665	1.00	16.58	.
ATOM	2245	CA	CA	.	TRP	TRP	A	A	136	136	.	1.916	20.281	-4.001	1.00	16.95	.
ATOM	2246	C	C	.	TRP	TRP	A	A	136	136	.	1.716	20.304	-5.517	1.00	23.66	.
ATOM	2247	O	O	.	TRP	TRP	A	A	136	136	.	2.683	20.415	-6.273	1.00	20.27	.
ATOM	2248	CB	CB	.	TRP	TRP	A	A	136	136	.	2.237	21.703	-3.534	1.00	17.98	.
ATOM	2249	CG	CG	.	TRP	TRP	A	A	136	136	.	2.406	21.835	-2.052	1.00	15.86	.
ATOM	2250	CD1	CD1	.	TRP	TRP	A	A	136	136	.	3.524	21.541	-1.329	1.00	20.12	.
ATOM	2251	CD2	CD2	.	TRP	TRP	A	A	136	136	.	1.426	22.288	-1.110	1.00	17.06	.
ATOM	2252	NE1	NE1	.	TRP	TRP	A	A	136	136	.	3.306	21.785	0.004	1.00	15.44	.
ATOM	2253	CE2	CE2	.	TRP	TRP	A	A	136	136	.	2.027	22.242	0.170	1.00	13.01	.

ATOM	2254	CE3	CE3	.	TRP	TRP	A	A	136	136	.	0.103	22.727	-1.220	1.00	20.42	.
ATOM	2255	CZ2	CZ2	.	TRP	TRP	A	A	136	136	.	1.349	22.618	1.331	1.00	15.09	.
ATOM	2256	CZ3	CZ3	.	TRP	TRP	A	A	136	136	.	-0.575	23.105	-0.060	1.00	25.06	.
ATOM	2257	CH2	CH2	.	TRP	TRP	A	A	136	136	.	0.052	23.046	1.199	1.00	21.57	.
ATOM	2258	N	N	.	THR	THR	A	A	137	137	.	0.465	20.196	-5.952	1.00	17.03	.
ATOM	2259	CA	CA	.	THR	THR	A	A	137	137	.	0.153	20.224	-7.373	1.00	15.09	.
ATOM	2260	C	C	.	THR	THR	A	A	137	137	.	0.025	21.671	-7.803	1.00	14.33	.
ATOM	2261	O	O	.	THR	THR	A	A	137	137	.	-0.688	22.451	-7.169	1.00	21.35	.
ATOM	2262	CB	CB	.	THR	THR	A	A	137	137	.	-1.174	19.508	-7.670	1.00	17.86	.
ATOM	2263	OG1	OG1	.	THR	THR	A	A	137	137	.	-1.087	18.147	-7.243	1.00	18.87	.
ATOM	2264	CG2	CG2	.	THR	THR	A	A	137	137	.	-1.473	19.540	-9.166	1.00	25.03	.
ATOM	2265	N	N	.	VAL	VAL	A	A	138	138	.	0.725	22.042	-8.864	1.00	14.76	.
ATOM	2266	CA	CA	.	VAL	VAL	A	A	138	138	.	0.655	23.410	-9.348	1.00	17.24	.
ATOM	2267	C	C	.	VAL	VAL	A	A	138	138	.	-0.570	23.541	-10.243	1.00	22.50	.
ATOM	2268	O	O	.	VAL	VAL	A	A	138	138	.	-0.708	22.825	-11.235	1.00	19.89	.
ATOM	2269	CB	CB	.	VAL	VAL	A	A	138	138	.	1.903	23.800	-10.150	1.00	15.87	.
ATOM	2270	CG1	CG1	.	VAL	VAL	A	A	138	138	.	1.859	25.281	-10.485	1.00	16.41	.
ATOM	2271	CG2	CG2	.	VAL	VAL	A	A	138	138	.	3.158	23.482	-9.341	1.00	24.07	.
ATOM	2272	N	N	.	ILE	ILE	A	A	139	139	.	-1.465	24.448	-9.877	1.00	20.60	.
ATOM	2273	CA	CA	.	ILE	ILE	A	A	139	139	.	-2.677	24.643	-10.655	1.00	25.88	.
ATOM	2274	C	C	.	ILE	ILE	A	A	139	139	.	-2.619	25.920	-11.477	1.00	25.97	.
ATOM	2275	O	O	.	ILE	ILE	A	A	139	139	.	-2.970	26.999	-10.999	1.00	28.06	.
ATOM	2276	CB	CB	.	ILE	ILE	A	A	139	139	.	-3.925	24.676	-9.745	1.00	23.88	.
ATOM	2277	CG1	CG1	.	ILE	ILE	A	A	139	139	.	-4.019	23.374	-8.958	1.00	25.32	.
ATOM	2278	CG2	CG2	.	ILE	ILE	A	A	139	139	.	-5.193	24.853	-10.584	1.00	28.00	.
ATOM	2279	CD1	CD1	.	ILE	ILE	A	A	139	139	.	-5.173	23.329	-8.000	1.00	34.89	.
ATOM	2280	N	N	.	CYS	CYS	A	A	140	140	.	-2.128	25.795	-12.704	1.00	24.56	.
ATOM	2281	CA	CA	.	CYS	CYS	A	A	140	140	.	-2.070	26.922	-13.615	1.00	26.01	.
ATOM	2282	C	C	.	CYS	CYS	A	A	140	140	.	-2.735	26.530	-14.936	1.00	32.54	.
ATOM	2283	O	O	.	CYS	CYS	A	A	140	140	.	-2.955	25.347	-15.196	1.00	30.16	.
ATOM	2284	CB	CB	.	CYS	CYS	A	A	140	140	.	-0.632	27.418	-13.844	1.00	26.38	.
ATOM	2285	SG	SG	.	CYS	CYS	A	A	140	140	.	0.782	26.296	-14.153	1.00	36.60	.
ATOM	2286	N	N	.	ASN	ASN	A	A	141	141	.	-3.085	27.519	-15.751	1.00	35.88	.
ATOM	2287	CA	CA	.	ASN	ASN	A	A	141	141	.	-3.741	27.237	-17.023	1.00	46.03	.
ATOM	2288	C	C	.	ASN	ASN	A	A	141	141	.	-2.737	27.019	-18.137	1.00	46.65	.
ATOM	2289	O	O	.	ASN	ASN	A	A	141	141	.	-1.637	27.570	-18.113	1.00	40.67	.
ATOM	2290	CB	CB	.	ASN	ASN	A	A	141	141	.	-4.706	28.362	-17.388	1.00	48.52	.
ATOM	2291	CG	CG	.	ASN	ASN	A	A	141	141	.	-5.932	28.363	-16.513	1.00	45.87	.
ATOM	2292	OD1	OD1	.	ASN	ASN	A	A	141	141	.	-6.591	27.334	-16.354	1.00	40.76	.
ATOM	2293	ND2	ND2	.	ASN	ASN	A	A	141	141	.	-6.253	29.516	-15.936	1.00	48.83	.
ATOM	2294	N	N	.	GLY	GLY	A	A	142	142	.	-3.131	26.218	-19.121	1.00	51.93	.
ATOM	2295	CA	CA	.	GLY	GLY	A	A	142	142	.	-2.227	25.900	-20.208	1.00	57.24	.
ATOM	2296	C	C	.	GLY	GLY	A	A	142	142	.	-1.367	24.789	-19.643	1.00	57.57	.
ATOM	2297	O	O	.	GLY	GLY	A	A	142	142	.	-1.832	24.031	-18.791	1.00	51.15	.
ATOM	2298	N	N	.	ASP	ASP	A	A	143	143	.	-0.126	24.666	-20.091	1.00	57.49	.
ATOM	2299	CA	CA	.	ASP	ASP	A	A	143	143	.	0.707	23.618	-19.528	1.00	67.33	.
ATOM	2300	C	C	.	ASP	ASP	A	A	143	143	.	2.173	23.994	-19.465	1.00	58.62	.
ATOM	2301	O	O	.	ASP	ASP	A	A	143	143	.	3.022	23.389	-20.112	1.00	70.78	.
ATOM	2302	CB	CB	.	ASP	ASP	A	A	143	143	.	0.532	22.304	-20.292	1.00	77.12	.
ATOM	2303	CG	CG	.	ASP	ASP	A	A	143	143	.	0.886	21.096	-19.437	1.00	84.59	.
ATOM	2304	OD1	OD1	.	ASP	ASP	A	A	143	143	.	2.037	21.037	-18.959	1.00	85.03	.
ATOM	2305	OD2	OD2	.	ASP	ASP	A	A	143	143	.	0.016	20.218	-19.232	1.00	89.37	.
ATOM	2306	N	N	.	GLU	GLU	A	A	144	144	.	2.449	25.018	-18.667	1.00	54.21	.
ATOM	2307	CA	CA	.	GLU	GLU	A	A	144	144	.	3.792	25.516	-18.445	1.00	52.06	.
ATOM	2308	C	C	.	GLU	GLU	A	A	144	144	.	3.672	26.743	-17.552	1.00	45.56	.
ATOM	2309	O	O	.	GLU	GLU	A	A	144	144	.	3.290	27.826	-18.000	1.00	34.20	.
ATOM	2310	CB	CB	.	GLU	GLU	A	A	144	144	.	4.480	25.863	-19.769	1.00	54.27	.

ATOM	2311	CG	CG	.	GLU	GLU	A	A	144	144	.	5.918	25.370	-19.813	1.00	55.72	.
ATOM	2312	CD	CD	.	GLU	GLU	A	A	144	144	.	6.499	25.332	-21.212	1.00	58.85	.
ATOM	2313	OE1	OE1	.	GLU	GLU	A	A	144	144	.	7.609	24.782	-21.362	1.00	59.37	.
ATOM	2314	OE2	OE2	.	GLU	GLU	A	A	144	144	.	5.857	25.846	-22.156	1.00	59.38	.
ATOM	2315	N	N	.	TRP	TRP	A	A	145	145	.	3.971	26.533	-16.275	1.00	33.59	.
ATOM	2316	CA	CA	.	TRP	TRP	A	A	145	145	.	3.914	27.565	-15.255	1.00	28.16	.
ATOM	2317	C	C	.	TRP	TRP	A	A	145	145	.	4.623	28.829	-15.711	1.00	30.22	.
ATOM	2318	O	O	.	TRP	TRP	A	A	145	145	.	5.845	28.851	-15.818	1.00	32.16	.
ATOM	2319	CB	CB	.	TRP	TRP	A	A	145	145	.	4.562	27.031	-13.978	1.00	35.04	.
ATOM	2320	CG	CG	.	TRP	TRP	A	A	145	145	.	4.308	27.836	-12.748	1.00	32.61	.
ATOM	2321	CD1	CD1	.	TRP	TRP	A	A	145	145	.	3.571	28.982	-12.645	1.00	36.35	.
ATOM	2322	CD2	CD2	.	TRP	TRP	A	A	145	145	.	4.788	27.546	-11.433	1.00	29.98	.
ATOM	2323	NE1	NE1	.	TRP	TRP	A	A	145	145	.	3.565	29.423	-11.340	1.00	36.35	.
ATOM	2324	CE2	CE2	.	TRP	TRP	A	A	145	145	.	4.304	28.560	-10.574	1.00	29.32	.
ATOM	2325	CE3	CE3	.	TRP	TRP	A	A	145	145	.	5.584	26.525	-10.895	1.00	26.81	.
ATOM	2326	CZ2	CZ2	.	TRP	TRP	A	A	145	145	.	4.591	28.581	-9.206	1.00	25.27	.
ATOM	2327	CZ3	CZ3	.	TRP	TRP	A	A	145	145	.	5.869	26.549	-9.533	1.00	18.38	.
ATOM	2328	CH2	CH2	.	TRP	TRP	A	A	145	145	.	5.372	27.572	-8.705	1.00	25.18	.
ATOM	2329	N	N	.	LEU	LEU	A	A	146	146	.	3.847	29.878	-15.979	1.00	28.93	.
ATOM	2330	CA	CA	.	LEU	LEU	A	A	146	146	.	4.395	31.158	-16.422	1.00	33.55	.
ATOM	2331	C	C	.	LEU	LEU	A	A	146	146	.	4.501	32.099	-15.224	1.00	37.58	.
ATOM	2332	O	O	.	LEU	LEU	A	A	146	146	.	3.601	32.164	-14.384	1.00	38.21	.
ATOM	2333	CB	CB	.	LEU	LEU	A	A	146	146	.	3.489	31.785	-17.487	1.00	36.54	.
ATOM	2334	CG	CG	.	LEU	LEU	A	A	146	146	.	3.125	30.948	-18.718	1.00	39.91	.
ATOM	2335	CD1	CD1	.	LEU	LEU	A	A	146	146	.	2.103	31.704	-19.558	1.00	37.99	.
ATOM	2336	CD2	CD2	.	LEU	LEU	A	A	146	146	.	4.371	30.638	-19.535	1.00	38.87	.
ATOM	2337	N	N	.	GLU	GLU	A	A	147	147	.	5.605	32.830	-15.151	1.00	35.71	.
ATOM	2338	CA	CA	.	GLU	GLU	A	A	147	147	.	5.842	33.755	-14.054	1.00	33.26	.
ATOM	2339	C	C	.	GLU	GLU	A	A	147	147	.	4.837	34.905	-14.015	1.00	40.18	.
ATOM	2340	O	O	.	GLU	GLU	A	A	147	147	.	4.712	35.594	-13.002	1.00	31.21	.
ATOM	2341	CB	CB	.	GLU	GLU	A	A	147	147	.	7.261	34.313	-14.165	1.00	43.38	.
ATOM	2342	CG	CG	.	GLU	GLU	A	A	147	147	.	7.690	35.179	-12.997	1.00	54.33	.
ATOM	2343	CD	CD	.	GLU	GLU	A	A	147	147	.	9.182	35.441	-13.002	1.00	57.84	.
ATOM	2344	OE1	OE1	.	GLU	GLU	A	A	147	147	.	9.944	34.458	-13.128	1.00	61.08	.
ATOM	2345	OE2	OE2	.	GLU	GLU	A	A	147	147	.	9.589	36.616	-12.873	1.00	59.41	.
ATOM	2346	N	N	.	SER	SER	A	A	148	148	.	4.112	35.093	-15.114	1.00	38.98	.
ATOM	2347	CA	CA	.	SER	SER	A	A	148	148	.	3.141	36.180	-15.228	1.00	42.25	.
ATOM	2348	C	C	.	SER	SER	A	A	148	148	.	1.700	35.786	-14.925	1.00	43.42	.
ATOM	2349	O	O	.	SER	SER	A	A	148	148	.	0.789	36.604	-15.057	1.00	45.87	.
ATOM	2350	CB	CB	.	SER	SER	A	A	148	148	.	3.191	36.756	-16.639	1.00	46.08	.
ATOM	2351	OG	OG	.	SER	SER	A	A	148	148	.	2.737	35.789	-17.572	1.00	45.05	.
ATOM	2352	N	N	.	GLU	GLU	A	A	149	149	.	1.477	34.546	-14.522	1.00	37.15	.
ATOM	2353	CA	CA	.	GLU	GLU	A	A	149	149	.	0.115	34.128	-14.257	1.00	35.84	.
ATOM	2354	C	C	.	GLU	GLU	A	A	149	149	.	-0.147	33.851	-12.790	1.00	35.39	.
ATOM	2355	O	O	.	GLU	GLU	A	A	149	149	.	0.781	33.659	-12.001	1.00	30.63	.
ATOM	2356	CB	CB	.	GLU	GLU	A	A	149	149	.	-0.216	32.886	-15.083	1.00	39.34	.
ATOM	2357	CG	CG	.	GLU	GLU	A	A	149	149	.	0.354	31.597	-14.528	1.00	54.82	.
ATOM	2358	CD	CD	.	GLU	GLU	A	A	149	149	.	0.320	30.471	-15.541	1.00	63.46	.
ATOM	2359	OE1	OE1	.	GLU	GLU	A	A	149	149	.	1.243	30.406	-16.379	1.00	60.83	.
ATOM	2360	OE2	OE2	.	GLU	GLU	A	A	149	149	.	-0.633	29.661	-15.509	1.00	64.54	.
ATOM	2361	N	N	.	GLN	GLN	A	A	150	150	.	-1.422	33.854	-12.424	1.00	31.44	.
ATOM	2362	CA	CA	.	GLN	GLN	A	A	150	150	.	-1.788	33.561	-11.058	1.00	30.28	.
ATOM	2363	C	C	.	GLN	GLN	A	A	150	150	.	-1.933	32.053	-11.039	1.00	32.33	.
ATOM	2364	O	O	.	GLN	GLN	A	A	150	150	.	-2.091	31.429	-12.090	1.00	33.78	.
ATOM	2365	CB	CB	.	GLN	GLN	A	A	150	150	.	-3.108	34.231	-10.677	1.00	30.18	.
ATOM	2366	CG	CG	.	GLN	GLN	A	A	150	150	.	-3.093	35.736	-10.829	1.00	28.97	.
ATOM	2367	CD	CD	.	GLN	GLN	A	A	150	150	.	-4.005	36.435	-9.845	1.00	22.84	.

ATOM	2368	OE1	OE1	.	GLN	GLN	A	A	150	150	.	-5.049	35.911	-9.465	1.00	30.20	.
ATOM	2369	NE2	NE2	.	GLN	GLN	A	A	150	150	.	-3.617	37.635	-9.432	1.00	31.81	.
ATOM	2370	N	N	.	PHE	PHE	A	A	151	151	.	-1.875	31.466	-9.853	1.00	20.93	.
ATOM	2371	CA	CA	.	PHE	PHE	A	A	151	151	.	-1.982	30.028	-9.736	1.00	24.48	.
ATOM	2372	C	C	.	PHE	PHE	A	A	151	151	.	-2.422	29.640	-8.341	1.00	24.54	.
ATOM	2373	O	O	.	PHE	PHE	A	A	151	151	.	-2.466	30.472	-7.436	1.00	23.90	.
ATOM	2374	CB	CB	.	PHE	PHE	A	A	151	151	.	-0.618	29.380	-10.024	1.00	24.29	.
ATOM	2375	CG	CG	.	PHE	PHE	A	A	151	151	.	0.468	29.775	-9.043	1.00	21.96	.
ATOM	2376	CD1	CD1	.	PHE	PHE	A	A	151	151	.	1.170	30.970	-9.195	1.00	31.49	.
ATOM	2377	CD2	CD2	.	PHE	PHE	A	A	151	151	.	0.765	28.965	-7.949	1.00	21.17	.
ATOM	2378	CE1	CE1	.	PHE	PHE	A	A	151	151	.	2.155	31.355	-8.265	1.00	23.83	.
ATOM	2379	CE2	CE2	.	PHE	PHE	A	A	151	151	.	1.742	29.341	-7.019	1.00	17.41	.
ATOM	2380	CZ	CZ	.	PHE	PHE	A	A	151	151	.	2.435	30.534	-7.176	1.00	16.57	.
ATOM	2381	N	N	.	LYS	LYS	A	A	152	152	.	-2.769	28.372	-8.180	1.00	20.08	.
ATOM	2382	CA	CA	.	LYS	LYS	A	A	152	152	.	-3.138	27.853	-6.880	1.00	21.94	.
ATOM	2383	C	C	.	LYS	LYS	A	A	152	152	.	-2.202	26.677	-6.635	1.00	21.91	.
ATOM	2384	O	O	.	LYS	LYS	A	A	152	152	.	-1.544	26.188	-7.563	1.00	22.08	.
ATOM	2385	CB	CB	.	LYS	LYS	A	A	152	152	.	-4.594	27.382	-6.865	1.00	33.16	.
ATOM	2386	CG	CG	.	LYS	LYS	A	A	152	152	.	-5.603	28.512	-6.930	1.00	25.45	.
ATOM	2387	CD	CD	.	LYS	LYS	A	A	152	152	.	-7.018	27.989	-7.035	1.00	41.56	.
ATOM	2388	CE	CE	.	LYS	LYS	A	A	152	152	.	-7.474	27.896	-8.488	1.00	47.49	.
ATOM	2389	NZ	NZ	.	LYS	LYS	A	A	152	152	.	-7.620	29.243	-9.118	1.00	48.62	.
ATOM	2390	N	N	.	LEU	LEU	A	A	153	153	.	-2.120	26.241	-5.388	1.00	15.13	.
ATOM	2391	CA	CA	.	LEU	LEU	A	A	153	153	.	-1.288	25.105	-5.032	1.00	17.30	.
ATOM	2392	C	C	.	LEU	LEU	A	A	153	153	.	-2.165	24.176	-4.230	1.00	13.83	.
ATOM	2393	O	O	.	LEU	LEU	A	A	153	153	.	-2.640	24.529	-3.152	1.00	22.19	.
ATOM	2394	CB	CB	.	LEU	LEU	A	A	153	153	.	-0.082	25.531	-4.191	1.00	16.98	.
ATOM	2395	CG	CG	.	LEU	LEU	A	A	153	153	.	1.087	26.212	-4.902	1.00	20.49	.
ATOM	2396	CD1	CD1	.	LEU	LEU	A	A	153	153	.	2.138	26.596	-3.855	1.00	20.54	.
ATOM	2397	CD2	CD2	.	LEU	LEU	A	A	153	153	.	1.698	25.281	-5.945	1.00	19.18	.
ATOM	2398	N	N	.	ARG	ARG	A	A	154	154	.	-2.378	22.981	-4.759	1.00	14.51	.
ATOM	2399	CA	CA	.	ARG	ARG	A	A	154	154	.	-3.224	22.016	-4.085	1.00	18.83	.
ATOM	2400	C	C	.	ARG	ARG	A	A	154	154	.	-2.398	20.890	-3.482	1.00	17.50	.
ATOM	2401	O	O	.	ARG	ARG	A	A	154	154	.	-1.681	20.192	-4.195	1.00	18.72	.
ATOM	2402	CB	CB	.	ARG	ARG	A	A	154	154	.	-4.237	21.452	-5.085	1.00	21.15	.
ATOM	2403	CG	CG	.	ARG	ARG	A	A	154	154	.	-5.421	20.768	-4.448	1.00	23.17	.
ATOM	2404	CD	CD	.	ARG	ARG	A	A	154	154	.	-6.440	20.327	-5.512	1.00	24.51	.
ATOM	2405	NE	NE	.	ARG	ARG	A	A	154	154	.	-7.684	19.871	-4.901	1.00	26.09	.
ATOM	2406	CZ	CZ	.	ARG	ARG	A	A	154	154	.	-8.759	19.481	-5.583	1.00	30.30	.
ATOM	2407	NH1	NH1	.	ARG	ARG	A	A	154	154	.	-8.749	19.485	-6.910	1.00	21.54	.
ATOM	2408	NH2	NH2	.	ARG	ARG	A	A	154	154	.	-9.847	19.098	-4.936	1.00	24.59	.
ATOM	2409	N	N	.	HIS	HIS	A	A	155	155	.	-2.501	20.714	-2.168	1.00	15.47	.
ATOM	2410	CA	CA	.	HIS	HIS	A	A	155	155	.	-1.750	19.666	-1.489	1.00	17.47	.
ATOM	2411	C	C	.	HIS	HIS	A	A	155	155	.	-2.115	18.323	-2.114	1.00	29.13	.
ATOM	2412	O	O	.	HIS	HIS	A	A	155	155	.	-3.286	17.934	-2.140	1.00	23.05	.
ATOM	2413	CB	CB	.	HIS	HIS	A	A	155	155	.	-2.077	19.652	-0.001	1.00	20.13	.
ATOM	2414	CG	CG	.	HIS	HIS	A	A	155	155	.	-1.115	18.851	0.819	1.00	28.32	.
ATOM	2415	ND1	ND1	.	HIS	HIS	A	A	155	155	.	-1.522	17.867	1.696	1.00	26.70	.
ATOM	2416	CD2	CD2	.	HIS	HIS	A	A	155	155	.	0.235	18.909	0.918	1.00	18.85	.
ATOM	2417	CE1	CE1	.	HIS	HIS	A	A	155	155	.	-0.464	17.356	2.302	1.00	26.66	.
ATOM	2418	NE2	NE2	.	HIS	HIS	A	A	155	155	.	0.614	17.971	1.848	1.00	24.06	.
ATOM	2419	N	N	.	ALA	ALA	A	A	156	156	.	-1.105	17.620	-2.610	1.00	20.80	.
ATOM	2420	CA	CA	.	ALA	ALA	A	A	156	156	.	-1.314	16.341	-3.263	1.00	26.82	.
ATOM	2421	C	C	.	ALA	ALA	A	A	156	156	.	-1.967	15.272	-2.392	1.00	31.22	.
ATOM	2422	O	O	.	ALA	ALA	A	A	156	156	.	-2.929	14.630	-2.813	1.00	26.75	.
ATOM	2423	CB	CB	.	ALA	ALA	A	A	156	156	.	0.005	15.825	-3.807	1.00	22.75	.
ATOM	2424	N	N	.	VAL	VAL	A	A	157	157	.	-1.451	15.082	-1.183	1.00	24.58	.

ATOM	2425	CA	CA	.	VAL	VAL	A	A	157	157	.	-1.978	14.057	-0.296	1.00	28.01	.
ATOM	2426	C	C	.	VAL	VAL	A	A	157	157	.	-3.366	14.316	0.283	1.00	35.31	.
ATOM	2427	O	O	.	VAL	VAL	A	A	157	157	.	-4.182	13.398	0.351	1.00	28.08	.
ATOM	2428	CB	CB	.	VAL	VAL	A	A	157	157	.	-0.990	13.774	0.852	1.00	24.27	.
ATOM	2429	CG1	CG1	.	VAL	VAL	A	A	157	157	.	-1.615	12.839	1.880	1.00	30.76	.
ATOM	2430	CG2	CG2	.	VAL	VAL	A	A	157	157	.	0.279	13.156	0.286	1.00	22.61	.
ATOM	2431	N	N	.	THR	THR	A	A	158	158	.	-3.645	15.551	0.698	1.00	35.67	.
ATOM	2432	CA	CA	.	THR	THR	A	A	158	158	.	-4.950	15.870	1.277	1.00	30.59	.
ATOM	2433	C	C	.	THR	THR	A	A	158	158	.	-5.911	16.580	0.326	1.00	29.07	.
ATOM	2434	O	O	.	THR	THR	A	A	158	158	.	-7.123	16.534	0.518	1.00	34.19	.
ATOM	2435	CB	CB	.	THR	THR	A	A	158	158	.	-4.806	16.755	2.522	1.00	29.26	.
ATOM	2436	OG1	OG1	.	THR	THR	A	A	158	158	.	-4.178	17.986	2.151	1.00	28.82	.
ATOM	2437	CG2	CG2	.	THR	THR	A	A	158	158	.	-3.980	16.059	3.583	1.00	26.59	.
ATOM	2438	N	N	.	GLY	GLY	A	A	159	159	.	-5.376	17.249	-0.688	1.00	29.90	.
ATOM	2439	CA	CA	.	GLY	GLY	A	A	159	159	.	-6.225	17.957	-1.632	1.00	26.32	.
ATOM	2440	C	C	.	GLY	GLY	A	A	159	159	.	-6.556	19.384	-1.222	1.00	26.34	.
ATOM	2441	O	O	.	GLY	GLY	A	A	159	159	.	-7.235	20.107	-1.956	1.00	31.61	.
ATOM	2442	N	N	.	SER	SER	A	A	160	160	.	-6.076	19.798	-0.053	1.00	28.60	.
ATOM	2443	CA	CA	.	SER	SER	A	A	160	160	.	-6.341	21.144	0.443	1.00	23.42	.
ATOM	2444	C	C	.	SER	SER	A	A	160	160	.	-5.551	22.180	-0.332	1.00	28.84	.
ATOM	2445	O	O	.	SER	SER	A	A	160	160	.	-4.408	21.939	-0.729	1.00	23.36	.
ATOM	2446	CB	CB	.	SER	SER	A	A	160	160	.	-5.987	21.247	1.927	1.00	32.10	.
ATOM	2447	OG	OG	.	SER	SER	A	A	160	160	.	-6.621	20.219	2.667	1.00	31.58	.
ATOM	2448	N	N	.	TYR	TYR	A	A	161	161	.	-6.171	23.336	-0.543	1.00	23.65	.
ATOM	2449	CA	CA	.	TYR	TYR	A	A	161	161	.	-5.543	24.425	-1.263	1.00	17.93	.
ATOM	2450	C	C	.	TYR	TYR	A	A	161	161	.	-4.767	25.308	-0.291	1.00	23.69	.
ATOM	2451	O	O	.	TYR	TYR	A	A	161	161	.	-5.220	25.567	0.828	1.00	21.29	.
ATOM	2452	CB	CB	.	TYR	TYR	A	A	161	161	.	-6.607	25.260	-1.964	1.00	21.44	.
ATOM	2453	CG	CG	.	TYR	TYR	A	A	161	161	.	-7.327	24.533	-3.076	1.00	30.77	.
ATOM	2454	CD1	CD1	.	TYR	TYR	A	A	161	161	.	-6.779	24.458	-4.353	1.00	21.42	.
ATOM	2455	CD2	CD2	.	TYR	TYR	A	A	161	161	.	-8.563	23.918	-2.851	1.00	32.94	.
ATOM	2456	CE1	CE1	.	TYR	TYR	A	A	161	161	.	-7.440	23.793	-5.384	1.00	23.20	.
ATOM	2457	CE2	CE2	.	TYR	TYR	A	A	161	161	.	-9.234	23.247	-3.878	1.00	31.54	.
ATOM	2458	CZ	CZ	.	TYR	TYR	A	A	161	161	.	-8.665	23.189	-5.141	1.00	28.73	.
ATOM	2459	OH	OH	.	TYR	TYR	A	A	161	161	.	-9.312	22.521	-6.165	1.00	35.08	.
ATOM	2460	N	N	.	LEU	LEU	A	A	162	162	.	-3.590	25.754	-0.709	1.00	19.19	.
ATOM	2461	CA	CA	.	LEU	LEU	A	A	162	162	.	-2.785	26.634	0.134	1.00	18.10	.
ATOM	2462	C	C	.	LEU	LEU	A	A	162	162	.	-3.559	27.948	0.116	1.00	13.12	.
ATOM	2463	O	O	.	LEU	LEU	A	A	162	162	.	-3.795	28.502	-0.956	1.00	15.98	.
ATOM	2464	CB	CB	.	LEU	LEU	A	A	162	162	.	-1.396	26.830	-0.486	1.00	10.84	.
ATOM	2465	CG	CG	.	LEU	LEU	A	A	162	162	.	-0.439	27.768	0.253	1.00	11.79	.
ATOM	2466	CD1	CD1	.	LEU	LEU	A	A	162	162	.	-0.038	27.144	1.577	1.00	13.94	.
ATOM	2467	CD2	CD2	.	LEU	LEU	A	A	162	162	.	0.786	28.018	-0.615	1.00	13.26	.
ATOM	2468	N	N	.	SER	SER	A	A	163	163	.	-3.965	28.441	1.283	1.00	17.70	.
ATOM	2469	CA	CA	.	SER	SER	A	A	163	163	.	-4.748	29.676	1.321	1.00	19.54	.
ATOM	2470	C	C	.	SER	SER	A	A	163	163	.	-4.541	30.507	2.572	1.00	18.67	.
ATOM	2471	O	O	.	SER	SER	A	A	163	163	.	-4.176	29.985	3.625	1.00	20.90	.
ATOM	2472	CB	CB	.	SER	SER	A	A	163	163	.	-6.248	29.357	1.236	1.00	20.70	.
ATOM	2473	OG	OG	.	SER	SER	A	A	163	163	.	-6.551	28.450	0.192	1.00	24.20	.
ATOM	2474	N	N	.	LEU	LEU	A	A	164	164	.	-4.771	31.809	2.445	1.00	21.67	.
ATOM	2475	CA	CA	.	LEU	LEU	A	A	164	164	.	-4.691	32.689	3.599	1.00	19.45	.
ATOM	2476	C	C	.	LEU	LEU	A	A	164	164	.	-6.078	32.529	4.225	1.00	24.69	.
ATOM	2477	O	O	.	LEU	LEU	A	A	164	164	.	-7.096	32.646	3.532	1.00	29.08	.
ATOM	2478	CB	CB	.	LEU	LEU	A	A	164	164	.	-4.470	34.143	3.170	1.00	20.89	.
ATOM	2479	CG	CG	.	LEU	LEU	A	A	164	164	.	-3.128	34.460	2.502	1.00	22.75	.
ATOM	2480	CD1	CD1	.	LEU	LEU	A	A	164	164	.	-2.985	35.969	2.325	1.00	18.25	.
ATOM	2481	CD2	CD2	.	LEU	LEU	A	A	164	164	.	-1.994	33.922	3.363	1.00	24.82	.

ATOM	2482	N	N	.	SER	SER	A	A	165	165	.	-6.117	32.224	5.515	1.00	23.87	.
ATOM	2483	CA	CA	.	SER	SER	A	A	165	165	.	-7.381	32.035	6.222	1.00	28.68	.
ATOM	2484	C	C	.	SER	SER	A	A	165	165	.	-8.107	33.357	6.399	1.00	32.54	.
ATOM	2485	O	O	.	SER	SER	A	A	165	165	.	-9.321	33.386	6.584	1.00	33.83	.
ATOM	2486	CB	CB	.	SER	SER	A	A	165	165	.	-7.129	31.432	7.601	1.00	22.88	.
ATOM	2487	OG	OG	.	SER	SER	A	A	165	165	.	-6.500	32.384	8.436	1.00	23.79	.
ATOM	2488	N	N	.	GLY	GLY	A	A	166	166	.	-7.353	34.451	6.346	1.00	34.31	.
ATOM	2489	CA	CA	.	GLY	GLY	A	A	166	166	.	-7.941	35.766	6.521	1.00	34.98	.
ATOM	2490	C	C	.	GLY	GLY	A	A	166	166	.	-7.682	36.246	7.936	1.00	36.96	.
ATOM	2491	O	O	.	GLY	GLY	A	A	166	166	.	-7.992	37.380	8.296	1.00	37.58	.
ATOM	2492	N	N	.	GLN	GLN	A	A	167	167	.	-7.111	35.363	8.747	1.00	38.43	.
ATOM	2493	CA	CA	.	GLN	GLN	A	A	167	167	.	-6.784	35.690	10.124	1.00	34.20	.
ATOM	2494	C	C	.	GLN	GLN	A	A	167	167	.	-5.351	36.188	10.196	1.00	33.80	.
ATOM	2495	O	O	.	GLN	GLN	A	A	167	167	.	-4.536	35.887	9.325	1.00	33.53	.
ATOM	2496	CB	CB	.	GLN	GLN	A	A	167	167	.	-6.936	34.454	11.013	1.00	41.70	.
ATOM	2497	CG	CG	.	GLN	GLN	A	A	167	167	.	-8.373	34.025	11.223	1.00	39.98	.
ATOM	2498	CD	CD	.	GLN	GLN	A	A	167	167	.	-9.194	35.120	11.870	1.00	44.06	.
ATOM	2499	OE1	OE1	.	GLN	GLN	A	A	167	167	.	-8.883	35.576	12.971	1.00	41.63	.
ATOM	2500	NE2	NE2	.	GLN	GLN	A	A	167	167	.	-10.243	35.556	11.185	1.00	42.38	.
ATOM	2501	N	N	.	GLN	GLN	A	A	168	168	.	-5.053	36.954	11.238	1.00	32.46	.
ATOM	2502	CA	CA	.	GLN	GLN	A	A	168	168	.	-3.714	37.488	11.448	1.00	28.84	.
ATOM	2503	C	C	.	GLN	GLN	A	A	168	168	.	-3.239	37.090	12.840	1.00	34.11	.
ATOM	2504	O	O	.	GLN	GLN	A	A	168	168	.	-4.047	36.943	13.760	1.00	36.68	.
ATOM	2505	CB	CB	.	GLN	GLN	A	A	168	168	.	-3.719	39.011	11.328	1.00	30.89	.
ATOM	2506	CG	CG	.	GLN	GLN	A	A	168	168	.	-3.897	39.539	9.919	1.00	28.20	.
ATOM	2507	CD	CD	.	GLN	GLN	A	A	168	168	.	-3.769	41.054	9.854	1.00	40.50	.
ATOM	2508	OE1	OE1	.	GLN	GLN	A	A	168	168	.	-2.911	41.643	10.514	1.00	28.64	.
ATOM	2509	NE2	NE2	.	GLN	GLN	A	A	168	168	.	-4.613	41.689	9.047	1.00	36.77	.
ATOM	2510	N	N	.	PHE	PHE	A	A	169	169	.	-1.932	36.917	12.992	1.00	24.96	.
ATOM	2511	CA	CA	.	PHE	PHE	A	A	169	169	.	-1.363	36.546	14.277	1.00	27.15	.
ATOM	2512	C	C	.	PHE	PHE	A	A	169	169	.	-1.045	37.774	15.109	1.00	33.71	.
ATOM	2513	O	O	.	PHE	PHE	A	A	169	169	.	-1.000	38.897	14.598	1.00	24.98	.
ATOM	2514	CB	CB	.	PHE	PHE	A	A	169	169	.	-0.065	35.771	14.092	1.00	25.98	.
ATOM	2515	CG	CG	.	PHE	PHE	A	A	169	169	.	-0.246	34.401	13.527	1.00	27.91	.
ATOM	2516	CD1	CD1	.	PHE	PHE	A	A	169	169	.	-0.794	33.386	14.300	1.00	28.34	.
ATOM	2517	CD2	CD2	.	PHE	PHE	A	A	169	169	.	0.146	34.118	12.223	1.00	27.44	.
ATOM	2518	CE1	CE1	.	PHE	PHE	A	A	169	169	.	-0.951	32.105	13.788	1.00	22.98	.
ATOM	2519	CE2	CE2	.	PHE	PHE	A	A	169	169	.	-0.006	32.835	11.697	1.00	32.23	.
ATOM	2520	CZ	CZ	.	PHE	PHE	A	A	169	169	.	-0.557	31.827	12.484	1.00	34.10	.
ATOM	2521	N	N	.	GLY	GLY	A	A	170	170	.	-0.821	37.534	16.398	1.00	35.76	.
ATOM	2522	CA	CA	.	GLY	GLY	A	A	170	170	.	-0.449	38.591	17.316	1.00	27.14	.
ATOM	2523	C	C	.	GLY	GLY	A	A	170	170	.	1.017	38.323	17.587	1.00	34.55	.
ATOM	2524	O	O	.	GLY	GLY	A	A	170	170	.	1.647	37.575	16.835	1.00	27.88	.
ATOM	2525	N	N	.	ARG	ARG	A	A	171	171	.	1.570	38.907	18.645	1.00	32.53	.
ATOM	2526	CA	CA	.	ARG	ARG	A	A	171	171	.	2.979	38.691	18.976	1.00	29.52	.
ATOM	2527	C	C	.	ARG	ARG	A	A	171	171	.	3.225	37.192	19.147	1.00	2.79	.
ATOM	2528	O	O	.	ARG	ARG	A	A	171	171	.	2.304	36.442	19.462	1.00	33.34	.
ATOM	2529	CB	CB	.	ARG	ARG	A	A	171	171	.	3.334	39.416	20.275	1.00	33.63	.
ATOM	2530	CG	CG	.	ARG	ARG	A	A	171	171	.	2.895	38.687	21.539	1.00	41.53	.
ATOM	2531	CD	CD	.	ARG	ARG	A	A	171	171	.	1.399	38.403	21.535	1.00	57.40	.
ATOM	2532	NE	NE	.	ARG	ARG	A	A	171	171	.	0.606	39.624	21.411	1.00	65.82	.
ATOM	2533	CZ	CZ	.	ARG	ARG	A	A	171	171	.	0.687	40.655	22.249	1.00	70.52	.
ATOM	2534	NH1	NH1	.	ARG	ARG	A	A	171	171	.	1.528	40.615	23.275	1.00	65.83	.
ATOM	2535	NH2	NH2	.	ARG	ARG	A	A	171	171	.	-0.080	41.722	22.068	1.00	71.20	.
ATOM	2536	N	N	.	PRO	PRO	A	A	172	172	.	4.471	36.734	18.953	1.00	26.19	.
ATOM	2537	CA	CA	.	PRO	PRO	A	A	172	172	.	5.684	37.472	18.589	1.00	26.84	.
ATOM	2538	C	C	.	PRO	PRO	A	A	172	172	.	5.826	37.712	17.086	1.00	25.46	.

ATOM	2539	O	O	.	PRO	PRO	A	A	172	172	.	6.896	38.097	16.615	1.00	28.10	.
ATOM	2540	CB	CB	.	PRO	PRO	A	A	172	172	.	6.789	36.570	19.114	1.00	34.21	.
ATOM	2541	CG	CG	.	PRO	PRO	A	A	172	172	.	6.236	35.211	18.798	1.00	28.42	.
ATOM	2542	CD	CD	.	PRO	PRO	A	A	172	172	.	4.797	35.327	19.255	1.00	30.70	.
ATOM	2543	N	N	.	ILE	ILE	A	A	173	173	.	4.750	37.472	16.341	1.00	24.66	.
ATOM	2544	CA	CA	.	ILE	ILE	A	A	173	173	.	4.746	37.659	14.887	1.00	25.37	.
ATOM	2545	C	C	.	ILE	ILE	A	A	173	173	.	3.519	38.478	14.511	1.00	24.11	.
ATOM	2546	O	O	.	ILE	ILE	A	A	173	173	.	2.754	38.109	13.622	1.00	26.04	.
ATOM	2547	CB	CB	.	ILE	ILE	A	A	173	173	.	4.697	36.289	14.145	1.00	23.12	.
ATOM	2548	CG1	CG1	.	ILE	ILE	A	A	173	173	.	3.592	35.411	14.735	1.00	21.38	.
ATOM	2549	CG2	CG2	.	ILE	ILE	A	A	173	173	.	6.052	35.591	14.242	1.00	21.28	.
ATOM	2550	CD1	CD1	.	ILE	ILE	A	A	173	173	.	3.371	34.090	13.984	1.00	24.83	.
ATOM	2551	N	N	.	HIS	HIS	A	A	174	174	.	3.350	39.603	15.199	1.00	24.41	.
ATOM	2552	CA	CA	.	HIS	HIS	A	A	174	174	.	2.215	40.490	14.997	1.00	19.18	.
ATOM	2553	C	C	.	HIS	HIS	A	A	174	174	.	1.957	40.991	13.583	1.00	17.58	.
ATOM	2554	O	O	.	HIS	HIS	A	A	174	174	.	2.839	41.541	12.926	1.00	19.98	.
ATOM	2555	CB	CB	.	HIS	HIS	A	A	174	174	.	2.335	41.691	15.942	1.00	30.56	.
ATOM	2556	CG	CG	.	HIS	HIS	A	A	174	174	.	1.284	42.734	15.731	1.00	27.69	.
ATOM	2557	ND1	ND1	.	HIS	HIS	A	A	174	174	.	1.341	43.649	14.703	1.00	28.94	.
ATOM	2558	CD2	CD2	.	HIS	HIS	A	A	174	174	.	0.137	42.992	16.403	1.00	25.57	.
ATOM	2559	CE1	CE1	.	HIS	HIS	A	A	174	174	.	0.274	44.427	14.749	1.00	27.31	.
ATOM	2560	NE2	NE2	.	HIS	HIS	A	A	174	174	.	-0.473	44.048	15.771	1.00	27.47	.
ATOM	2561	N	N	.	GLY	GLY	A	A	175	175	.	0.723	40.813	13.130	1.00	19.47	.
ATOM	2562	CA	CA	.	GLY	GLY	A	A	175	175	.	0.341	41.276	11.810	1.00	24.14	.
ATOM	2563	C	C	.	GLY	GLY	A	A	175	175	.	0.550	40.278	10.685	1.00	25.33	.
ATOM	2564	O	O	.	GLY	GLY	A	A	175	175	.	0.095	40.507	9.567	1.00	28.06	.
ATOM	2565	N	N	.	GLN	GLN	A	A	176	176	.	1.240	39.179	10.959	1.00	20.96	.
ATOM	2566	CA	CA	.	GLN	GLN	A	A	176	176	.	1.478	38.180	9.922	1.00	17.60	.
ATOM	2567	C	C	.	GLN	GLN	A	A	176	176	.	0.203	37.374	9.684	1.00	21.38	.
ATOM	2568	O	O	.	GLN	GLN	A	A	176	176	.	-0.511	37.028	10.629	1.00	21.39	.
ATOM	2569	CB	CB	.	GLN	GLN	A	A	176	176	.	2.646	37.279	10.327	1.00	23.06	.
ATOM	2570	CG	CG	.	GLN	GLN	A	A	176	176	.	3.968	38.043	10.409	1.00	23.13	.
ATOM	2571	CD	CD	.	GLN	GLN	A	A	176	176	.	5.165	37.159	10.672	1.00	19.15	.
ATOM	2572	OE1	OE1	.	GLN	GLN	A	A	176	176	.	5.220	36.020	10.221	1.00	20.30	.
ATOM	2573	NE2	NE2	.	GLN	GLN	A	A	176	176	.	6.151	37.695	11.386	1.00	26.10	.
ATOM	2574	N	N	.	ARG	ARG	A	A	177	177	.	-0.095	37.092	8.419	1.00	20.95	.
ATOM	2575	CA	CA	.	ARG	ARG	A	A	177	177	.	-1.312	36.358	8.078	1.00	23.16	.
ATOM	2576	C	C	.	ARG	ARG	A	A	177	177	.	-1.215	34.844	8.238	1.00	22.67	.
ATOM	2577	O	O	.	ARG	ARG	A	A	177	177	.	-0.179	34.241	7.947	1.00	19.49	.
ATOM	2578	CB	CB	.	ARG	ARG	A	A	177	177	.	-1.746	36.688	6.647	1.00	25.76	.
ATOM	2579	CG	CG	.	ARG	ARG	A	A	177	177	.	-2.163	38.141	6.423	1.00	22.12	.
ATOM	2580	CD	CD	.	ARG	ARG	A	A	177	177	.	-0.964	39.065	6.319	1.00	24.32	.
ATOM	2581	NE	NE	.	ARG	ARG	A	A	177	177	.	-1.288	40.322	5.646	1.00	28.43	.
ATOM	2582	CZ	CZ	.	ARG	ARG	A	A	177	177	.	-1.854	41.373	6.230	1.00	40.37	.
ATOM	2583	NH1	NH1	.	ARG	ARG	A	A	177	177	.	-2.167	41.336	7.517	1.00	41.82	.
ATOM	2584	NH2	NH2	.	ARG	ARG	A	A	177	177	.	-2.109	42.469	5.521	1.00	39.87	.
ATOM	2585	N	N	.	GLU	GLU	A	A	178	178	.	-2.306	34.237	8.707	1.00	17.81	.
ATOM	2586	CA	CA	.	GLU	GLU	A	A	178	178	.	-2.348	32.791	8.889	1.00	24.64	.
ATOM	2587	C	C	.	GLU	GLU	A	A	178	178	.	-2.487	32.113	7.529	1.00	19.11	.
ATOM	2588	O	O	.	GLU	GLU	A	A	178	178	.	-3.314	32.511	6.707	1.00	21.73	.
ATOM	2589	CB	CB	.	GLU	GLU	A	A	178	178	.	-3.532	32.381	9.782	1.00	28.23	.
ATOM	2590	CG	CG	.	GLU	GLU	A	A	178	178	.	-3.709	30.866	9.905	1.00	28.48	.
ATOM	2591	CD	CD	.	GLU	GLU	A	A	178	178	.	-5.008	30.462	10.602	1.00	37.76	.
ATOM	2592	OE1	OE1	.	GLU	GLU	A	A	178	178	.	-6.037	31.137	10.386	1.00	25.51	.
ATOM	2593	OE2	OE2	.	GLU	GLU	A	A	178	178	.	-5.000	29.460	11.350	1.00	29.77	.
ATOM	2594	N	N	.	VAL	VAL	A	A	179	179	.	-1.652	31.105	7.303	1.00	22.11	.
ATOM	2595	CA	CA	.	VAL	VAL	A	A	179	179	.	-1.659	30.325	6.074	1.00	16.88	.

ATOM	2596	C	C	.	VAL	VAL	A	A	179	179	.	-2.212	28.945	6.448	1.00	16.94	.
ATOM	2597	O	O	.	VAL	VAL	A	A	179	179	.	-1.755	28.321	7.417	1.00	21.65	.
ATOM	2598	CB	CB	.	VAL	VAL	A	A	179	179	.	-0.232	30.163	5.508	1.00	20.80	.
ATOM	2599	CG1	CG1	.	VAL	VAL	A	A	179	179	.	-0.250	29.202	4.323	1.00	19.35	.
ATOM	2600	CG2	CG2	.	VAL	VAL	A	A	179	179	.	0.327	31.517	5.078	1.00	14.44	.
ATOM	2601	N	N	.	VAL	VAL	A	A	180	180	.	-3.192	28.467	5.694	1.00	19.97	.
ATOM	2602	CA	CA	.	VAL	VAL	A	A	180	180	.	-3.794	27.175	5.998	1.00	24.10	.
ATOM	2603	C	C	.	VAL	VAL	A	A	180	180	.	-4.199	26.402	4.750	1.00	26.36	.
ATOM	2604	O	O	.	VAL	VAL	A	A	180	180	.	-4.016	26.864	3.623	1.00	21.67	.
ATOM	2605	CB	CB	.	VAL	VAL	A	A	180	180	.	-5.065	27.330	6.860	1.00	23.18	.
ATOM	2606	CG1	CG1	.	VAL	VAL	A	A	180	180	.	-4.766	28.140	8.114	1.00	25.66	.
ATOM	2607	CG2	CG2	.	VAL	VAL	A	A	180	180	.	-6.162	27.989	6.041	1.00	23.75	.
ATOM	2608	N	N	.	GLY	GLY	A	A	181	181	.	-4.769	25.222	4.980	1.00	26.58	.
ATOM	2609	CA	CA	.	GLY	GLY	A	A	181	181	.	-5.219	24.377	3.892	1.00	26.55	.
ATOM	2610	C	C	.	GLY	GLY	A	A	181	181	.	-6.735	24.355	3.905	1.00	24.92	.
ATOM	2611	O	O	.	GLY	GLY	A	A	181	181	.	-7.345	23.923	4.880	1.00	29.10	.
ATOM	2612	N	N	.	THR	THR	A	A	182	182	.	-7.345	24.838	2.832	1.00	24.48	.
ATOM	2613	CA	CA	.	THR	THR	A	A	182	182	.	-8.794	24.868	2.754	1.00	30.93	.
ATOM	2614	C	C	.	THR	THR	A	A	182	182	.	-9.319	23.770	1.839	1.00	31.83	.
ATOM	2615	O	O	.	THR	THR	A	A	182	182	.	-8.713	23.467	0.811	1.00	32.83	.
ATOM	2616	CB	CB	.	THR	THR	A	A	182	182	.	-9.279	26.232	2.237	1.00	30.72	.
ATOM	2617	OG1	OG1	.	THR	THR	A	A	182	182	.	-8.703	26.490	0.952	1.00	27.58	.
ATOM	2618	CG2	CG2	.	THR	THR	A	A	182	182	.	-8.864	27.338	3.202	1.00	25.39	.
ATOM	2619	N	N	.	ASP	ASP	A	A	183	183	.	-10.440	23.162	2.219	1.00	33.67	.
ATOM	2620	CA	CA	.	ASP	ASP	A	A	183	183	.	-11.033	22.113	1.399	1.00	30.68	.
ATOM	2621	C	C	.	ASP	ASP	A	A	183	183	.	-11.448	22.693	0.054	1.00	25.46	.
ATOM	2622	O	O	.	ASP	ASP	A	A	183	183	.	-11.349	22.030	-0.970	1.00	37.77	.
ATOM	2623	CB	CB	.	ASP	ASP	A	A	183	183	.	-12.252	21.491	2.089	1.00	37.83	.
ATOM	2624	CG	CG	.	ASP	ASP	A	A	183	183	.	-11.876	20.658	3.302	1.00	50.23	.
ATOM	2625	OD1	OD1	.	ASP	ASP	A	A	183	183	.	-10.952	19.820	3.193	1.00	54.80	.
ATOM	2626	OD2	OD2	.	ASP	ASP	A	A	183	183	.	-12.510	20.836	4.365	1.00	57.30	.
ATOM	2627	N	N	.	SER	SER	A	A	184	184	.	-11.892	23.941	0.049	1.00	29.97	.
ATOM	2628	CA	CA	.	SER	SER	A	A	184	184	.	-12.313	24.563	-1.198	1.00	27.24	.
ATOM	2629	C	C	.	SER	SER	A	A	184	184	.	-11.505	25.813	-1.530	1.00	32.01	.
ATOM	2630	O	O	.	SER	SER	A	A	184	184	.	-10.810	26.365	-0.679	1.00	31.39	.
ATOM	2631	CB	CB	.	SER	SER	A	A	184	184	.	-13.804	24.914	-1.131	1.00	37.93	.
ATOM	2632	OG	OG	.	SER	SER	A	A	184	184	.	-14.588	23.752	-0.913	1.00	48.99	.
ATOM	2633	N	N	.	ILE	ILE	A	A	185	185	.	-11.603	26.248	-2.781	1.00	30.62	.
ATOM	2634	CA	CA	.	ILE	ILE	A	A	185	185	.	-10.900	27.429	-3.240	1.00	34.03	.
ATOM	2635	C	C	.	ILE	ILE	A	A	185	185	.	-11.574	28.663	-2.653	1.00	38.86	.
ATOM	2636	O	O	.	ILE	ILE	A	A	185	185	.	-12.793	28.805	-2.723	1.00	38.25	.
ATOM	2637	CB	CB	.	ILE	ILE	A	A	185	185	.	-10.927	27.512	-4.777	1.00	29.91	.
ATOM	2638	CG1	CG1	.	ILE	ILE	A	A	185	185	.	-10.170	26.316	-5.367	1.00	43.46	.
ATOM	2639	CG2	CG2	.	ILE	ILE	A	A	185	185	.	-10.302	28.814	-5.243	1.00	23.99	.
ATOM	2640	CD1	CD1	.	ILE	ILE	A	A	185	185	.	-10.167	26.262	-6.883	1.00	40.21	.
ATOM	2641	N	N	.	THR	THR	A	A	186	186	.	-10.781	29.553	-2.069	1.00	35.03	.
ATOM	2642	CA	CA	.	THR	THR	A	A	186	186	.	-11.325	30.764	-1.476	1.00	33.19	.
ATOM	2643	C	C	.	THR	THR	A	A	186	186	.	-10.685	32.014	-2.068	1.00	33.13	.
ATOM	2644	O	O	.	THR	THR	A	A	186	186	.	-9.902	31.938	-3.023	1.00	31.78	.
ATOM	2645	CB	CB	.	THR	THR	A	A	186	186	.	-11.122	30.774	0.058	1.00	34.11	.
ATOM	2646	OG1	OG1	.	THR	THR	A	A	186	186	.	-9.721	30.828	0.364	1.00	30.91	.
ATOM	2647	CG2	CG2	.	THR	THR	A	A	186	186	.	-11.717	29.521	0.679	1.00	30.13	.
ATOM	2648	N	N	.	GLY	GLY	A	A	187	187	.	-11.033	33.164	-1.499	1.00	26.68	.
ATOM	2649	CA	CA	.	GLY	GLY	A	A	187	187	.	-10.484	34.422	-1.967	1.00	25.97	.
ATOM	2650	C	C	.	GLY	GLY	A	A	187	187	.	-9.044	34.592	-1.515	1.00	21.91	.
ATOM	2651	O	O	.	GLY	GLY	A	A	187	187	.	-8.409	35.609	-1.804	1.00	31.59	.
ATOM	2652	N	N	.	GLY	GLY	A	A	188	188	.	-8.532	33.600	-0.794	1.00	22.65	.

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ATOM	2654	C	C	.	GLY	GLY	A	A	188	188	.	-6.305	32.571	-0.965	1.00	23.03	.
ATOM	2655	O	O	.	GLY	GLY	A	A	188	188	.	-5.143	32.394	-0.598	1.00	23.41	.
ATOM	2656	N	N	.	SER	SER	A	A	189	189	.	-6.876	31.859	-1.937	1.00	21.07	.
ATOM	2657	CA	CA	.	SER	SER	A	A	189	189	.	-6.185	30.756	-2.616	1.00	19.43	.
ATOM	2658	C	C	.	SER	SER	A	A	189	189	.	-5.348	31.129	-3.841	1.00	16.53	.
ATOM	2659	O	O	.	SER	SER	A	A	189	189	.	-4.547	30.323	-4.314	1.00	21.03	.
ATOM	2660	CB	CB	.	SER	SER	A	A	189	189	.	-7.201	29.688	-3.031	1.00	20.55	.
ATOM	2661	OG	OG	.	SER	SER	A	A	189	189	.	-7.985	29.267	-1.925	1.00	27.07	.
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ATOM	2663	CA	CA	.	ALA	ALA	A	A	190	190	.	-4.770	32.748	-5.540	1.00	17.20	.
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ATOM	2668	CA	CA	.	TRP	TRP	A	A	191	191	.	-0.994	33.246	-5.629	1.00	20.80	.
ATOM	2669	C	C	.	TRP	TRP	A	A	191	191	.	-0.354	33.698	-6.933	1.00	18.94	.
ATOM	2670	O	O	.	TRP	TRP	A	A	191	191	.	-0.802	33.336	-8.026	1.00	21.60	.
ATOM	2671	CB	CB	.	TRP	TRP	A	A	191	191	.	-0.127	32.136	-5.012	1.00	15.87	.
ATOM	2672	CG	CG	.	TRP	TRP	A	A	191	191	.	-0.640	31.640	-3.688	1.00	13.53	.
ATOM	2673	CD1	CD1	.	TRP	TRP	A	A	191	191	.	-1.576	30.667	-3.483	1.00	13.97	.
ATOM	2674	CD2	CD2	.	TRP	TRP	A	A	191	191	.	-0.270	32.124	-2.391	1.00	16.68	.
ATOM	2675	NE1	NE1	.	TRP	TRP	A	A	191	191	.	-1.815	30.512	-2.134	1.00	20.55	.
ATOM	2676	CE2	CE2	.	TRP	TRP	A	A	191	191	.	-1.026	31.399	-1.442	1.00	14.07	.
ATOM	2677	CE3	CE3	.	TRP	TRP	A	A	191	191	.	0.627	33.106	-1.939	1.00	16.49	.
ATOM	2678	CZ2	CZ2	.	TRP	TRP	A	A	191	191	.	-0.916	31.625	-0.066	1.00	15.95	.
ATOM	2679	CZ3	CZ3	.	TRP	TRP	A	A	191	191	.	0.736	33.329	-0.565	1.00	16.16	.
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ATOM	2682	CA	CA	.	LYS	LYS	A	A	192	192	.	1.472	35.005	-7.910	1.00	19.32	.
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ATOM	2684	O	O	.	LYS	LYS	A	A	192	192	.	3.342	35.147	-6.414	1.00	28.55	.
ATOM	2685	CB	CB	.	LYS	LYS	A	A	192	192	.	1.083	36.467	-8.131	1.00	18.31	.
ATOM	2686	CG	CG	.	LYS	LYS	A	A	192	192	.	1.951	37.211	-9.105	1.00	33.17	.
ATOM	2687	CD	CD	.	LYS	LYS	A	A	192	192	.	1.636	38.708	-9.077	1.00	47.63	.
ATOM	2688	CE	CE	.	LYS	LYS	A	A	192	192	.	1.866	39.284	-7.682	1.00	47.45	.
ATOM	2689	NZ	NZ	.	LYS	LYS	A	A	192	192	.	1.669	40.756	-7.613	1.00	51.73	.
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ATOM	2694	CB	CB	.	VAL	VAL	A	A	193	193	.	5.782	33.243	-9.182	1.00	34.25	.
ATOM	2695	CG1	CG1	.	VAL	VAL	A	A	193	193	.	7.284	33.363	-9.304	1.00	44.66	.
ATOM	2696	CG2	CG2	.	VAL	VAL	A	A	193	193	.	5.429	31.908	-8.553	1.00	40.07	.
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ATOM	2699	C	C	.	ALA	ALA	A	A	194	194	.	9.384	36.697	-7.962	1.00	48.32	.
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ATOM	2701	CB	CB	.	ALA	ALA	A	A	194	194	.	7.482	38.216	-7.361	1.00	34.12	.
ATOM	2702	N	N	.	GLU	GLU	A	A	195	195	.	10.303	37.222	-8.761	1.00	48.23	.
ATOM	2703	CA	CA	.	GLU	GLU	A	A	195	195	.	11.703	36.921	-8.528	1.00	55.29	.
ATOM	2704	C	C	.	GLU	GLU	A	A	195	195	.	12.264	37.787	-7.417	1.00	55.48	.
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ATOM	2706	CB	CB	.	GLU	GLU	A	A	195	195	.	12.535	37.126	-9.794	1.00	51.81	.
ATOM	2707	CG	CG	.	GLU	GLU	A	A	195	195	.	14.022	36.973	-9.536	1.00	51.64	.
ATOM	2708	CD	CD	.	GLU	GLU	A	A	195	195	.	14.693	36.022	-10.502	1.00	56.26	.
ATOM	2709	OE1	OE1	.	GLU	GLU	A	A	195	195	.	14.943	36.424	-11.659	1.00	58.90	.

ATOM	2710	OE2	OE2	.	GLU	GLU	A	A	195	195	.	14.961	34.869	-10.100	1.00	51.64	.
ATOM	2711	N	N	.	GLY	GLY	A	A	196	196	.	12.593	37.156	-6.295	1.00	61.31	.
ATOM	2712	CA	CA	.	GLY	GLY	A	A	196	196	.	13.175	37.894	-5.192	1.00	65.49	.
ATOM	2713	C	C	.	GLY	GLY	A	A	196	196	.	14.590	38.222	-5.620	1.00	68.22	.
ATOM	2714	O	O	.	GLY	GLY	A	A	196	196	.	14.943	39.386	-5.829	1.00	63.76	.
ATOM	2715	N	N	.	ILE	ILE	A	A	197	197	.	15.399	37.176	-5.762	1.00	67.90	.
ATOM	2716	CA	CA	.	ILE	ILE	A	A	197	197	.	16.781	37.307	-6.198	1.00	67.52	.
ATOM	2717	C	C	.	ILE	ILE	A	A	197	197	.	17.238	35.976	-6.789	1.00	69.46	.
ATOM	2718	O	O	.	ILE	ILE	A	A	197	197	.	18.047	35.287	-6.134	1.00	71.49	.
ATOM	2719	CB	CB	.	ILE	ILE	A	A	197	197	.	17.731	37.674	-5.044	1.00	67.81	.
ATOM	2720	CG1	CG1	.	ILE	ILE	A	A	197	197	.	17.240	38.921	-4.309	1.00	69.85	.
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HETATM	2727	O7	O7	.	MLI	MLI	.	.	201	201	.	-9.663	27.621	-11.085	1.00	46.46	.
HETATM	2728	O8	O8	.	MLI	MLI	.	.	201	201	.	-6.222	28.726	-13.081	1.00	47.30	.
HETATM	2729	O9	O9	.	MLI	MLI	.	.	201	201	.	-6.014	27.602	-11.297	1.00	56.58	.

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REMARK 2
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REMARK 3
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REMARK 3
REMARK 3 MODELLING METHOD.
REMARK 3 PROGRAM : ProModII
REMARK 3 AUTHORS : N.GUEX,M.C.PEITSCH
REMARK 3
REMARK 3 ENERGY MINIMISATION.

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REMARK 3 PROGRAM : GROMOS96
REMARK 3 AUTHORS : VAN GUNSTEREN
REMARK 3 PARAMETER : IFP43B1
REMARK 3 TOPOLOGY FILE : MTB43B1
REMARK 3 METHOD 1 : STEEPEST DESCENT
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REMARK 3 METHOD 2 : CONJUGATE GRADIENT
REMARK 3 CYCLES 2 : 300
REMARK 3 CONSTRAINTS 2 : 2500 / C-FACTORS
REMARK 3
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4
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REMARK 4
REMARK 4 THE COORDINATES IN THIS ENTRY REPRESENT A MODEL STRUCTURE.
REMARK 4 PROTEIN DATA BANK CONVENTIONS REQUIRE THAT *CRYST1* AND
REMARK 4 *SCALE* RECORDS BE INCLUDED, BUT THE VALUES ON THESE
REMARK 4 RECORDS ARE MEANINGLESS.
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5
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REMARK 5
REMARK 5 THIS MODEL IS BASED UPON THE COORDINATES OF:
REMARK 5
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REMARK 5 STRUCTURAL GENOMICS, UNKNOWN FUNCTION 16-MAY-04
REMARK 5 STRUCTURAL GENOMICS OF CAENORHABDITIS ELEGANS: STRUCTURE O
REMARK 5 A PROTEIN WITH UNKNOWN FUNCTION
REMARK 5 X-RAY DIFFRACTION
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