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Supplementary Information

Mannosylated adamantane-containing desmuramyl peptide recognition by NOD2 receptor: a molecular dynamics study

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Figure S1. All identified binding sites resulted from the blind docking with SwissDock server.

Table S1. Values of the scoring functions derived from docking with SwissDock and AutoDock Vina 1.1.2 for the selected poses.

Docking scoring function	Models of NOD2	Ligand	Estimated Δ*G* (kcal/mol)
SwissDock	SWISS-MODEL structure pocket 1	ManAdDMP	-9.1
SwissDock	SWISS-MODEL structure pocket 2a	ManAdDMP	-7.8
SwissDock	SWISS-MODEL structure pocket 2b	ManAdDMP	-8.9
SwissDock	I-TASSER structure pocket 1	ManAdDMP	-9.8
AutoDock Vina	SWISS-MODEL structure pocket 1	ManAdDMP	-10.5
AutoDock Vina	SWISS-MODEL structure pocket 2a	ManAdDMP	-7.7
AutoDock Vina	SWISS-MODEL structure pocket 2b	ManAdDMP	-9.0
AutoDock Vina	I-TASSER structure pocket 1	ManAdDMP	-9.4
SwissDock	SWISS-MODEL structure pocket 1	MDP	-8.0
SwissDock	SWISS-MODEL structure pocket 2a	MDP	-6.9
SwissDock	SWISS-MODEL structure pocket 2b	MDP	-8.3
SwissDock	I-TASSER structure pocket 1	MDP	-8.8
AutoDock Vina	SWISS-MODEL structure pocket 1	MDP	-8.5
AutoDock Vina	SWISS-MODEL structure pocket 2a	MDP	-7.3

AutoDock Vina	SWISS-MODEL structure pocket 2b	MDP	-7.5
AutoDock Vina	I-TASSER structure pocket 1	MDP	-8.4

Parameters for ManAdDMP (Man-OCH2-D-(1-Ad)Gly-L-Ala-D-isoGln)

Figure S2. Atom names for ManAdDMP (Man-OCH_2-D-(1-Ad)Gly-L-Ala-D-isoGln).

Table S2. Atom names, atom types and atom charges for ManAdDMP (Man-OCH$_2$-D-(1-Ad)Gly-L-Ala-D-*iso*Gln).

Atom names	Atom types	Atom charges
O2	o	-0.766906
C7	c	0.813786
O3	o	-0.766906
C6	c3	-0.094142
H9	hc	0.021275
H10	hc	0.021275
C5	c3	0.063207
H7	hc	-0.008559
H8	hc	-0.008559
C4	c3	-0.037933
H6	h1	0.083452
C8	c	0.598285
N2	n	-0.704160
H11	hn	0.341131
H12	hn	0.341131
O4	o	-0.608272
N1	n	-0.241959
H5	hn	0.183747
C2	c	0.418101
O1	o	-0.550592
C1	c3	0.005489
C3	c3	-0.404308
H2	hc	0.128413
H3	hc	0.128413
H4	hc	0.128413
H1	h1	0.090281
N3	n	-0.236322
H13	hn	0.239939
C9	c	0.299319
O5	o	-0.420972
C10	c3	0.013540
H14	h1	0.143907
C16	c3	0.051085
C15	c3	0.025823
C14	c3	0.070438
C13	c3	-0.052381
C12	c3	0.070438
C17	c3	0.025823
H22	hc	-0.019048
H23	hc	-0.019048
H16	hc	-0.019276
C19	c3	-0.052381
H26	hc	-0.004067
H27	hc	-0.004067
C21	c3	0.070438
C18	c3	-0.052381
H24	hc	-0.004067
H25	hc	-0.004067

C20	c3	0.025823
H28	hc	-0.019048
H29	hc	-0.019048
H30	hc	-0.019276
H17	hc	-0.004067
H18	hc	-0.004067
H19	hc	-0.019276
H20	hc	-0.019048
H21	hc	-0.019048
N4	n	-0.435455
H15	hn	0.243673
C11	c	0.437424
O6	o	-0.507193
C22	c3	0.363963
H31	h1	-0.001110
H32	h1	-0.001110
O7	os	-0.401157
C23	c3	-0.074814
O11	os	-0.281104
H33	h2	0.234910
C24	c3	0.237503
O8	oh	-0.677957
H40	ho	0.434164
H34	h1	0.096747
C25	c3	0.114957
O9	oh	-0.672593
H41	ho	0.413255
H35	h1	0.054589
C26	c3	0.394263
O10	oh	-0.700177
H42	ho	0.400311
H36	h1	0.062258
C27	c3	0.010100
H37	h1	0.060508
C28	c3	0.092733
H38	h1	0.064844
H39	h1	0.064844
O12	oh	-0.620371
H43	ho	0.392275

Figure S3. Root mean square deviation (RMSD) of the backbone atoms of complexes between ManAdDMP and SWISS-MODEL structure pocket 1 (black) SWISS-MODEL structure pocket 2a (red) SWISS-MODEL structure pocket 2b (green) I-TASSER structure pocket 1 (blue) with respect to corresponding equilibrated structures.

Table S3. The binding enthalpy and Std. Err. of Mean. Set of conformations (5000 structures) from the second half of MD trajectories ware used for calculations.

	ΔE_{VDW}	ΔE_{ELEC}	ΔG_{GB}	ΔG_{SURF} (SASA)	ΔG_{GAS}	ΔG_{SOLV}	ΔH_{BIND}
I-TASSER structure pocket 1	-76.4 ± 0.1	-76.5 ± 0.3	91.6 ±0.2	-9.5 ± 0.1	-152.9 ±0.3	82.1 ± 0.2	**-70.8** ± 0.2
SWISS-MODEL structure pocket 1	-76.3 ± 0.1	-76.9 ± 0.4	83.1 ± 0.3	-9.9 ± 0.1	-153.2 ± 0.4	73.1 ± 0.3	**-80.1** ± 0.1
SWISS-MODEL structure pocket 2a	-37.0 ± 0.1	48.7 ± 0.3	-27.2 ± 0.3	-5.1 ± 0.1	11.6 ± 0.3	-32.3 ±0.3	**-20.7** ± 0.1
SWISS-MODEL structure pocket 2b	-59.6 ± 0.1	-89.5 ± 0.5	99.7 ± 0.4	-7.9 ± 0.1	-149.2 ± 0.5	91.7 ± 0.4	**-57.4** ± 0.1

Analysis of ManAdDMP binding to pocket 1 of NOD2 structure obtained by I-TASSER server

Lys285, which contributes the most to the enthalpy of binding in pocket 1 of NOD2 obtained by SWISS-MODEL server, it does not contribute to the enthalpy of binding in this case. Instead, the side chain of Asp359 contributes the most by making transient H-bond interactions with the amide of *iso*Gln and backbone amides of L-Ala and D-*iso*Gln. The side chain of Ser286 establishes H-bond with the hydroxyl group -C6H_2OH from the mannose moiety (average angle Ser286-Oγ···C6H_2OH 160.1º and average bond length 2.7 Å) and backbone amide of AdGly (average angle Ser286-Oγ···NH-AdGly 160.0º and average bond length 2.9 Å). Trp470 establishes sugar–aromatic CH–π stacking interactions with mannose whereas the mannose methylene group of -C6H2OH interacts with the side chain of Val467. The backbone amides of Gly282, Ser283 and Gly284 establishes H-bonds with the carboxylate of isoGln. The side chain of Gln569 makes H-bonds with the hydroxyl group at the C-2 position of the mannose moiety (average angle Gln569-Oε1··· HO-C-2-Man 164.7º and average bond length 2.7 Å)

Figure S4. Root Mean Square Deviation (RMSD) of the ligand heavy atoms over the whole production trajectories of complexes between ManAdDMP and SWISS-MODEL structure pocket 1 (black), SWISS-MODEL structure pocket 2a (red), SWISS-MODEL structure pocket 2b (green) and I-TASSER structure pocket 1 (blue).

Figure S5. Root Mean Square Fluctuation (RMSF) of the NOD2 receptor residues over the production trajectories of complexes between ManAdDMP and SWISS-MODEL structure pocket 1 (black), SWISS-MODEL structure pocket 2a (red), SWISS-MODEL structure pocket 2b (green) and I-TASSER structure pocket 1 (blue).

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Rabbit-NOD2        1 ----------------------------MCSQEAFQAQRSQLVGLLVS-GSLEGFESILDL
Zebrafish-NOD2     1 ----------------------------MNAQQLILKQRAELLAVLCGGGSDEPLESVLDL
Human-NOD2         1 MGEEGGSASHDEEERASVLLGHSPGCEMCSQEAFQAQRSQLVELLVS-GSLEGFESVLDW

Rabbit-NOD2       33 LLSWEVLSWEDYEGLRLVGQPLSHLARRLLDTVWNKGTWGCQKLIAAVQEAQDSSQCPEL
Zebrafish-NOD2    34 LLAQEVLVWEDYLRVRVAEKPLCANIRQLLDLVYDKGEDACSYFLAAIEQELAEEQKAGL
Human-NOD2        60 LLSWEVLSWEDYEGFHLLGQPLSHLARRLLDTVWNKGTWACQKLIAAAQEAQADSQSPKL

Rabbit-NOD2       93 ---HGCWDPHSLHP---AQDLQSHRPAIVRRLYSHVEGVLDLALEQGFISQYECDEIRLP
Zebrafish-NOD2    94 CFGNGCVMVGKDRPATATSTLLADRPMLVRRLRDNIDGALNILLTTGCFSIKDCDSVQLP
Human-NOD2       120 ---HGCWDPHSLHP---ARDLQSHRPAIVRRLHSHVENMLDLAWERGFVSQYECDEIRLP

Rabbit-NOD2      147 IFTSSQRARRLLDLATVKANGLAAFLLQHVQKLPVSLSLP-----FEAAACKKYMSKLRT
Zebrafish-NOD2   154 VYTPSQQVRRLLDQVKFKGETAAKTLLEYLEQPEPTSPISAEKENTPSADCLVYQKKLRS
Human-NOD2       174 IFTPSQRARRLLDLATVKANGLAAFLLQHVQELPVPLALP-----LEAATCKKYMAKLRT

Rabbit-NOD2      202 IVAAQSRFLSTYDGAENLCLEDIYTENTLEVRTEVGMAGPLHKSPAALGLEELFSPNGHL
Zebrafish-NOD2   214 SVASQSLFLSTYGGTGRFSLDDIYTDGHLEVMNSSGE-------TTTLGLEDVVGPMGTL
Human-NOD2       229 TVSAQSRFLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPGHL

Rabbit-NOD2      262 NEDADTVLVVGEAGSGKSTLLQQVHLLWATGQDFQEFLFVFPFSCRQLQCVARPLSVMTL
Zebrafish-NOD2   267 NEDADTVLVSGEAGSGKSTLVQRLHLLWAREALLLNTFLLFPFSCRKLNAEHRELSLKEL
Human-NOD2       289 NDDADTVLVVGEAGSGKSTLLQRLHLLWAAGQDFQEFLFVFPFSCRQLQCMAKPLSVRTL

Rabbit-NOD2      322 LFEHCCWPDVGQQDVFQFLLDHPDRILLTFDGFDEFKFKFTDHERHCSPTDPTSVQTLLF
Zebrafish-NOD2   327 LFLHCCWPDRNQDEVFQFILDHPHLVLFTFDGLDEFKLGFTDEERHCCPTKQVPIPVLLF
Human-NOD2       349 LFEHCCWPDVGQEDIFQLLLDHPDRVLLTFDGFDEFKFRFTDRERHCSPTDPTSVQTLLF

Rabbit-NOD2      382 NLLQGNLLKNARKVLTSRPDAVSAFLRKYVRTEFNLKGFSEEGIELYLRKCHREPGVADR
Zebrafish-NOD2   387 NLLQGTLMKGVMKVVTSRPHAVGPSLKRYLRKEVLLKGFSPGGIDCFVKKHYSDPAMATR
Human-NOD2       409 NLLQGNLLKNARKVVTSRPAAVSAFLRKYIRTEFNLKGFSEQGIELYLRKRHHEPGVADR

Rabbit-NOD2      442 LIHLLQTTSALHGLCHLPVFSWMVSKCHQELLLQDGGSPKTTTDMYLLILQHFLRHASLP
Zebrafish-NOD2   447 VIESVQGNIALLGLCHIPVFCWIVIKCYQELLAGQDGIPQTITDVYLLVLQHFFQRKSSQ
Human-NOD2       469 LIRLLQETSALHGLCHLPVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLLHATPP

Rabbit-NOD2      502 DSASQGLGPSLLQGRLPTLLRLGQLALWGLGMCCYVFSAQQLQAAQVDPDDISLGFLVQA
Zebrafish-NOD2   507 --PQSGLGKAWLAEHLDTVLKLGELALEGLQTSCYVFSGYELQRNRITEQDVGIGFLIYC
Human-NOD2       529 DSASQGLGPSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFLVRA

Rabbit-NOD2      562 QGVVPGSTAPLEFLHITFQCFLAAFYLVLSTDVPTASLRYLFNCRRPGSSPLSRLLPRLC
Zebrafish-NOD2   565 SDISVNDCKRYEFLHITLQCFFAALYVILNRNNDRSAISRLFQPRNRQVSGLSQSCLGQC
Human-NOD2       589 KGVVPGSTAPLEFLHITFQCFFAAFYLALSADVPPALLRHLFNCGRPGNSPMARLLPTMC

Rabbit-NOD2      622 VQGSEHKESIVAALLQKTEPHNLQITAAFLAGLLSREHRDLLAACQAS-ERSLLRRRACA
Zebrafish-NOD2   625 MDHS------VE-ESHEAETANLQITAQFVSGLLSQRHNNLLLECCPAAVRE--RNVKQV
Human-NOD2       649 IQASEGKDSSVAALLQKAEPHNLQITAAFLAGLLSREHWGLLAECQTS-EKALLRRQACA

Rabbit-NOD2      681 RWCLARSLHKHFRSIPPAVPGEAKSMHAMPGFLWLIRSLYEMQEERLAQEAVRGLNVEHL
Zebrafish-NOD2   676 VKSLSKRMQRHFKSIPRPVEGEKKSMHAMPSFVWLIKCIYELQDNSIAQDAMAKLDVEHL
Human-NOD2       708 RWCLARSLRKHFHSIPPAAPGEAKSVHAMPGFIWLIRSLYEMQEERLARKAARGLNVGHL

Rabbit-NOD2      741 KLTFCGVGPAECAALAFVLRHLRRPVALQLDHNSVGDIGVEQLLPCLGACKALYLRDNNI
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Zebrafish-NOD2   736 KLTYCNIGPVECTALAYVLKNLRKPVGLQLDNNSVGDVGVEQLLPCLPMCHSLYLRNNNI
Human-NOD2       768 KLTFCSVGPTECAALAFVLQHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNI

Rabbit-NOD2      801 SDRGICKLIEHALHCEQLQKLALFNNKLTDGCAHSVAQLLACKQNFLALRLGNNHITAEG
Zebrafish-NOD2   796 SDEGIRKLLEKGIECENFQKIALFNNKLTDTCTQYFSCLLKSKQNFLALRLGNNNITSVG
Human-NOD2       828 SDRGICKLIECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNYITAAG

Rabbit-NOD2      861 AQVLAEGLRDNSSLQFLGFWGNKVGDKGAQALAEALSDHQSLKWLSLVGNNIGSVGAQAL
Zebrafish-NOD2   856 AEQLAEGLSYNQSLQFLGLWGNKVGDRGAEVLADALTNSKTLIWLSLVDNGVGSAGACAL
Human-NOD2       888 AQVLAEGLRGNTSLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVGNNIGSVGAQAL

Rabbit-NOD2      921 ASMLEKNVALEELCLEENHLQDAGVCSLAEGLKRNSSLKVLKLSNNCITFVGAEALLQAL
Zebrafish-NOD2   916 AKFIRQNKSLEELWLNKNSICKEGVDCLIEALKMNTSV---------------------
Human-NOD2       948 ALMLAKNVMLEELCLEENHLQDEGVCSLAEGLKKNSSLKILKLSNNCITYLGAEALLQAL

Rabbit-NOD2      981 ASNDTILEVWLRGNPFSPEEMEALSHRDSRLLL
Zebrafish-NOD2   954 ------KKVWLRGNNLSPQEEEQLSQQECRLTF
Human-NOD2      1008 ERNDTILEVWLRGNTFSLEEVDKLGCRDTRLLL
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Figure S6. Comparison of rabbit (UniProtKB ID G1T469), zebrafish (UniProtKB ID F8W3K2), human (UniProtKB ID Q9HC29) and mouse (UniProtKB ID Q8K3Z0) NOD2 protein sequences. Fasta sequences are taken from UniProt. Multiple sequence alignment was generated using T-Coffee and the output of T-Coffee was formated using Boxshade.

To obtain amino acid numeration that corresponds to the crystal structure deposited in PDB under 5IRN accession number (Maekawa et al. 2016) one should add 7 to the rabbit NOD2 primary sequence (UniProtKB ID G1T469).

Figure S7. Interactions established between MDP (magenta) and amino acids of pocket 1 and pocket 2 of SWISS-MODEL NOD2 structure. (A) Interactions established between amino acids of the pocket 1 and MDP (B) Interactions established between amino acids of the pocket 2b and MDP.

Coordinates of receptor NOD2 modeled by I-TASSER server and SWISS-MODEL

ATOM	1	N	GLY	X	191	27.033	106.318	152.027	1.00	0.00	N
ATOM	2	H1	GLY	X	191	27.892	106.770	152.310	1.00	0.00	H
ATOM	3	H2	GLY	X	191	26.568	105.962	152.850	1.00	0.00	H
ATOM	4	H3	GLY	X	191	26.386	107.006	151.672	1.00	0.00	H
ATOM	5	CA	GLY	X	191	27.271	105.270	151.043	1.00	0.00	C
ATOM	6	HA2	GLY	X	191	27.803	104.431	151.490	1.00	0.00	H
ATOM	7	HA3	GLY	X	191	26.331	104.903	150.627	1.00	0.00	H
ATOM	8	C	GLY	X	191	28.058	105.907	149.876	1.00	0.00	C
ATOM	9	O	GLY	X	191	28.960	106.704	150.091	1.00	0.00	O
ATOM	10	N	PRO	X	192	27.790	105.487	148.608	1.00	0.00	N
ATOM	11	CD	PRO	X	192	27.068	104.241	148.385	1.00	0.00	C
ATOM	12	HD2	PRO	X	192	26.008	104.469	148.277	1.00	0.00	H
ATOM	13	HD3	PRO	X	192	27.170	103.578	149.244	1.00	0.00	H
ATOM	14	CG	PRO	X	192	27.593	103.597	147.087	1.00	0.00	C
ATOM	15	HG2	PRO	X	192	26.916	102.947	146.532	1.00	0.00	H
ATOM	16	HG3	PRO	X	192	28.382	102.908	147.388	1.00	0.00	H
ATOM	17	CB	PRO	X	192	28.102	104.857	146.327	1.00	0.00	C
ATOM	18	HB2	PRO	X	192	27.327	105.248	145.670	1.00	0.00	H
ATOM	19	HB3	PRO	X	192	28.977	104.652	145.709	1.00	0.00	H
ATOM	20	CA	PRO	X	192	28.510	105.834	147.405	1.00	0.00	C
ATOM	21	HA	PRO	X	192	29.581	105.741	147.578	1.00	0.00	H
ATOM	22	C	PRO	X	192	28.216	107.252	147.028	1.00	0.00	C
ATOM	23	O	PRO	X	192	29.100	107.990	146.481	1.00	0.00	O
ATOM	24	N	GLU	X	193	27.066	107.738	147.407	1.00	0.00	N
ATOM	25	H	GLU	X	193	26.417	107.093	147.833	1.00	0.00	H
ATOM	26	CA	GLU	X	193	26.598	109.098	147.158	1.00	0.00	C
ATOM	27	HA	GLU	X	193	26.749	109.244	146.089	1.00	0.00	H
ATOM	28	CB	GLU	X	193	25.068	109.210	147.477	1.00	0.00	C
ATOM	29	HB2	GLU	X	193	24.628	110.096	147.018	1.00	0.00	H
ATOM	30	HB3	GLU	X	193	24.610	108.375	146.947	1.00	0.00	H
ATOM	31	CG	GLU	X	193	24.613	109.226	148.986	1.00	0.00	C
ATOM	32	HG2	GLU	X	193	24.851	110.187	149.440	1.00	0.00	H
ATOM	33	HG3	GLU	X	193	23.523	109.203	149.007	1.00	0.00	H
ATOM	34	CD	GLU	X	193	25.273	108.176	149.798	1.00	0.00	C
ATOM	35	OE1	GLU	X	193	25.285	106.977	149.410	1.00	0.00	O
ATOM	36	OE2	GLU	X	193	25.899	108.559	150.856	1.00	0.00	O
ATOM	37	C	GLU	X	193	27.424	110.235	147.852	1.00	0.00	C
ATOM	38	O	GLU	X	193	26.975	111.399	147.858	1.00	0.00	O
ATOM	39	N	PHE	X	194	28.573	109.970	148.394	1.00	0.00	N
ATOM	40	H	PHE	X	194	28.869	109.017	148.238	1.00	0.00	H
ATOM	41	CA	PHE	X	194	29.433	110.956	149.112	1.00	0.00	C
ATOM	42	HA	PHE	X	194	28.868	111.201	150.011	1.00	0.00	H
ATOM	43	CB	PHE	X	194	30.736	110.329	149.722	1.00	0.00	C
ATOM	44	HB2	PHE	X	194	31.193	111.009	150.442	1.00	0.00	H
ATOM	45	HB3	PHE	X	194	30.520	109.443	150.319	1.00	0.00	H
ATOM	46	CG	PHE	X	194	31.814	110.050	148.757	1.00	0.00	C
ATOM	47	CD1	PHE	X	194	31.891	108.766	148.123	1.00	0.00	C
ATOM	48	HD1	PHE	X	194	31.175	107.966	148.243	1.00	0.00	H
ATOM	49	CE1	PHE	X	194	32.846	108.524	147.176	1.00	0.00	C
ATOM	50	HE1	PHE	X	194	32.732	107.634	146.575	1.00	0.00	H
ATOM	51	CZ	PHE	X	194	33.812	109.481	146.812	1.00	0.00	C
ATOM	52	HZ	PHE	X	194	34.568	109.276	146.069	1.00	0.00	H
ATOM	53	CE2	PHE	X	194	33.795	110.762	147.440	1.00	0.00	C
ATOM	54	HE2	PHE	X	194	34.554	111.487	147.182	1.00	0.00	H
ATOM	55	CD2	PHE	X	194	32.849	111.029	148.471	1.00	0.00	C
ATOM	56	HD2	PHE	X	194	32.861	111.963	149.012	1.00	0.00	H
ATOM	57	C	PHE	X	194	29.856	112.273	148.439	1.00	0.00	C
ATOM	58	O	PHE	X	194	29.945	112.285	147.201	1.00	0.00	O
ATOM	59	N	GLU	X	195	30.021	113.384	149.241	1.00	0.00	N
ATOM	60	H	GLU	X	195	29.998	113.320	150.248	1.00	0.00	H
ATOM	61	CA	GLU	X	195	30.428	114.655	148.605	1.00	0.00	C
ATOM	62	HA	GLU	X	195	30.362	115.440	149.359	1.00	0.00	H
ATOM	63	CB	GLU	X	195	31.956	114.544	148.200	1.00	0.00	C
ATOM	64	HB2	GLU	X	195	32.457	114.061	149.040	1.00	0.00	H
ATOM	65	HB3	GLU	X	195	31.912	113.852	147.360	1.00	0.00	H
ATOM	66	CG	GLU	X	195	32.781	115.714	147.688	1.00	0.00	C
ATOM	67	HG2	GLU	X	195	33.839	115.554	147.898	1.00	0.00	H
ATOM	68	HG3	GLU	X	195	32.562	115.792	146.624	1.00	0.00	H
ATOM	69	CD	GLU	X	195	32.420	117.040	148.356	1.00	0.00	C
ATOM	70	OE1	GLU	X	195	32.055	117.991	147.653	1.00	0.00	O
ATOM	71	OE2	GLU	X	195	32.461	117.089	149.604	1.00	0.00	O
ATOM	72	C	GLU	X	195	29.464	115.120	147.480	1.00	0.00	C
ATOM	73	O	GLU	X	195	29.971	115.690	146.518	1.00	0.00	O
ATOM	74	N	ALA	X	196	28.156	114.861	147.619	1.00	0.00	N
ATOM	75	H	ALA	X	196	27.894	114.330	148.437	1.00	0.00	H
ATOM	76	CA	ALA	X	196	27.063	114.938	146.665	1.00	0.00	C
ATOM	77	HA	ALA	X	196	26.199	114.396	147.053	1.00	0.00	H
ATOM	78	CB	ALA	X	196	26.701	116.434	146.430	1.00	0.00	C
ATOM	79	HB1	ALA	X	196	26.589	116.869	147.424	1.00	0.00	H
ATOM	80	HB2	ALA	X	196	27.387	116.894	145.719	1.00	0.00	H

ATOM	81	HB3	ALA	X	196	25.698	116.424	146.005	1.00	0.00	H
ATOM	82	C	ALA	X	196	27.346	114.158	145.385	1.00	0.00	C
ATOM	83	O	ALA	X	196	27.550	114.772	144.325	1.00	0.00	O
ATOM	84	N	ALA	X	197	27.485	112.810	145.529	1.00	0.00	N
ATOM	85	H	ALA	X	197	27.296	112.488	146.467	1.00	0.00	H
ATOM	86	CA	ALA	X	197	28.088	111.772	144.653	1.00	0.00	C
ATOM	87	HA	ALA	X	197	28.697	111.082	145.237	1.00	0.00	H
ATOM	88	CB	ALA	X	197	26.854	111.087	144.055	1.00	0.00	C
ATOM	89	HB1	ALA	X	197	26.110	110.923	144.835	1.00	0.00	H
ATOM	90	HB2	ALA	X	197	26.394	111.738	143.312	1.00	0.00	H
ATOM	91	HB3	ALA	X	197	27.211	110.151	143.625	1.00	0.00	H
ATOM	92	C	ALA	X	197	29.069	112.211	143.642	1.00	0.00	C
ATOM	93	O	ALA	X	197	28.930	111.992	142.426	1.00	0.00	O
ATOM	94	N	ALA	X	198	30.085	112.942	144.043	1.00	0.00	N
ATOM	95	H	ALA	X	198	30.240	113.028	145.039	1.00	0.00	H
ATOM	96	CA	ALA	X	198	31.256	113.361	143.206	1.00	0.00	C
ATOM	97	HA	ALA	X	198	30.835	114.057	142.482	1.00	0.00	H
ATOM	98	CB	ALA	X	198	32.271	114.062	144.131	1.00	0.00	C
ATOM	99	HB1	ALA	X	198	32.539	113.527	145.043	1.00	0.00	H
ATOM	100	HB2	ALA	X	198	33.100	114.468	143.553	1.00	0.00	H
ATOM	101	HB3	ALA	X	198	31.745	114.937	144.512	1.00	0.00	H
ATOM	102	C	ALA	X	198	31.956	112.264	142.457	1.00	0.00	C
ATOM	103	O	ALA	X	198	32.529	112.474	141.357	1.00	0.00	O
ATOM	104	N	CYS	X	199	31.930	111.037	143.059	1.00	0.00	N
ATOM	105	H	CYS	X	199	31.520	110.978	143.981	1.00	0.00	H
ATOM	106	CA	CYS	X	199	32.562	109.882	142.486	1.00	0.00	C
ATOM	107	HA	CYS	X	199	33.556	110.133	142.120	1.00	0.00	H
ATOM	108	CB	CYS	X	199	32.811	108.788	143.552	1.00	0.00	C
ATOM	109	HB2	CYS	X	199	33.307	109.293	144.381	1.00	0.00	H
ATOM	110	HB3	CYS	X	199	31.857	108.329	143.810	1.00	0.00	H
ATOM	111	SG	CYS	X	199	33.821	107.363	143.043	1.00	0.00	S
ATOM	112	HG	CYS	X	199	33.987	106.821	144.253	1.00	0.00	H
ATOM	113	C	CYS	X	199	31.779	109.370	141.230	1.00	0.00	C
ATOM	114	O	CYS	X	199	32.440	109.209	140.193	1.00	0.00	O
ATOM	115	N	LYS	X	200	30.442	109.281	141.278	1.00	0.00	N
ATOM	116	H	LYS	X	200	29.945	109.503	142.128	1.00	0.00	H
ATOM	117	CA	LYS	X	200	29.632	109.047	140.062	1.00	0.00	C
ATOM	118	HA	LYS	X	200	29.994	108.158	139.543	1.00	0.00	H
ATOM	119	CB	LYS	X	200	28.105	108.798	140.433	1.00	0.00	C
ATOM	120	HB2	LYS	X	200	28.004	107.825	140.915	1.00	0.00	H
ATOM	121	HB3	LYS	X	200	27.812	109.629	141.075	1.00	0.00	H
ATOM	122	CG	LYS	X	200	27.091	108.953	139.306	1.00	0.00	C
ATOM	123	HG2	LYS	X	200	26.102	108.783	139.730	1.00	0.00	H
ATOM	124	HG3	LYS	X	200	27.185	109.961	138.904	1.00	0.00	H
ATOM	125	CD	LYS	X	200	27.258	107.858	138.244	1.00	0.00	C
ATOM	126	HD2	LYS	X	200	28.245	107.945	137.789	1.00	0.00	H
ATOM	127	HD3	LYS	X	200	27.010	106.937	138.772	1.00	0.00	H
ATOM	128	CE	LYS	X	200	26.166	107.892	137.205	1.00	0.00	C
ATOM	129	HE2	LYS	X	200	25.290	107.964	137.849	1.00	0.00	H
ATOM	130	HE3	LYS	X	200	26.218	108.776	136.571	1.00	0.00	H
ATOM	131	NZ	LYS	X	200	26.208	106.716	136.315	1.00	0.00	N
ATOM	132	HZ1	LYS	X	200	25.338	106.586	135.817	1.00	0.00	H
ATOM	133	HZ2	LYS	X	200	26.991	106.796	135.681	1.00	0.00	H
ATOM	134	HZ3	LYS	X	200	26.357	105.895	136.883	1.00	0.00	H
ATOM	135	C	LYS	X	200	29.835	110.189	139.057	1.00	0.00	C
ATOM	136	O	LYS	X	200	29.996	109.787	137.915	1.00	0.00	O
ATOM	137	N	LYS	X	201	30.074	111.409	139.510	1.00	0.00	N
ATOM	138	H	LYS	X	201	29.830	111.585	140.474	1.00	0.00	H
ATOM	139	CA	LYS	X	201	30.495	112.547	138.600	1.00	0.00	C
ATOM	140	HA	LYS	X	201	29.772	112.573	137.784	1.00	0.00	H
ATOM	141	CB	LYS	X	201	30.399	113.981	139.314	1.00	0.00	C
ATOM	142	HB2	LYS	X	201	31.121	114.086	140.125	1.00	0.00	H
ATOM	143	HB3	LYS	X	201	30.625	114.713	138.539	1.00	0.00	H
ATOM	144	CG	LYS	X	201	28.993	114.277	139.856	1.00	0.00	C
ATOM	145	HG2	LYS	X	201	28.294	114.137	139.032	1.00	0.00	H
ATOM	146	HG3	LYS	X	201	28.730	113.554	140.629	1.00	0.00	H
ATOM	147	CD	LYS	X	201	28.789	115.585	140.499	1.00	0.00	C
ATOM	148	HD2	LYS	X	201	29.691	115.814	141.067	1.00	0.00	H
ATOM	149	HD3	LYS	X	201	28.711	116.415	139.795	1.00	0.00	H
ATOM	150	CE	LYS	X	201	27.542	115.706	141.415	1.00	0.00	C
ATOM	151	HE2	LYS	X	201	26.659	115.630	140.781	1.00	0.00	H
ATOM	152	HE3	LYS	X	201	27.562	114.882	142.129	1.00	0.00	H
ATOM	153	NZ	LYS	X	201	27.576	117.034	142.141	1.00	0.00	N
ATOM	154	HZ1	LYS	X	201	26.745	117.312	142.643	1.00	0.00	H
ATOM	155	HZ2	LYS	X	201	28.346	116.952	142.791	1.00	0.00	H
ATOM	156	HZ3	LYS	X	201	27.696	117.829	141.532	1.00	0.00	H
ATOM	157	C	LYS	X	201	31.847	112.324	137.946	1.00	0.00	C
ATOM	158	O	LYS	X	201	32.040	112.621	136.739	1.00	0.00	O
ATOM	159	N	TYR	X	202	32.849	111.872	138.651	1.00	0.00	N
ATOM	160	H	TYR	X	202	32.770	111.825	139.657	1.00	0.00	H
ATOM	161	CA	TYR	X	202	34.120	111.412	138.000	1.00	0.00	C
ATOM	162	HA	TYR	X	202	34.428	112.239	137.358	1.00	0.00	H

ATOM	163	CB	TYR	X	202	35.340	111.306	138.938	1.00	0.00	C
ATOM	164	HB2	TYR	X	202	35.436	112.288	139.400	1.00	0.00	H
ATOM	165	HB3	TYR	X	202	35.224	110.630	139.785	1.00	0.00	H
ATOM	166	CG	TYR	X	202	36.676	110.899	138.247	1.00	0.00	C
ATOM	167	CD1	TYR	X	202	37.265	111.825	137.432	1.00	0.00	C
ATOM	168	HD1	TYR	X	202	36.687	112.704	137.189	1.00	0.00	H
ATOM	169	CE1	TYR	X	202	38.434	111.558	136.713	1.00	0.00	C
ATOM	170	HE1	TYR	X	202	38.752	112.223	135.924	1.00	0.00	H
ATOM	171	CZ	TYR	X	202	39.121	110.367	136.901	1.00	0.00	C
ATOM	172	OH	TYR	X	202	40.319	110.141	136.237	1.00	0.00	O
ATOM	173	HH	TYR	X	202	40.719	110.906	135.815	1.00	0.00	H
ATOM	174	CE2	TYR	X	202	38.697	109.502	137.924	1.00	0.00	C
ATOM	175	HE2	TYR	X	202	39.388	108.717	138.192	1.00	0.00	H
ATOM	176	CD2	TYR	X	202	37.493	109.813	138.618	1.00	0.00	C
ATOM	177	HD2	TYR	X	202	37.285	109.194	139.477	1.00	0.00	H
ATOM	178	C	TYR	X	202	33.899	110.140	137.114	1.00	0.00	C
ATOM	179	O	TYR	X	202	34.235	110.175	135.942	1.00	0.00	O
ATOM	180	N	MET	X	203	33.467	109.010	137.702	1.00	0.00	N
ATOM	181	H	MET	X	203	33.206	109.140	138.669	1.00	0.00	H
ATOM	182	CA	MET	X	203	33.180	107.785	137.030	1.00	0.00	C
ATOM	183	HA	MET	X	203	34.159	107.332	136.874	1.00	0.00	H
ATOM	184	CB	MET	X	203	32.406	106.914	138.043	1.00	0.00	C
ATOM	185	HB2	MET	X	203	32.919	106.700	138.981	1.00	0.00	H
ATOM	186	HB3	MET	X	203	31.548	107.553	138.251	1.00	0.00	H
ATOM	187	CG	MET	X	203	31.802	105.661	137.421	1.00	0.00	C
ATOM	188	HG2	MET	X	203	31.041	106.041	136.739	1.00	0.00	H
ATOM	189	HG3	MET	X	203	32.594	105.184	136.844	1.00	0.00	H
ATOM	190	SD	MET	X	203	31.154	104.378	138.566	1.00	0.00	S
ATOM	191	CE	MET	X	203	29.674	105.066	139.321	1.00	0.00	C
ATOM	192	HE1	MET	X	203	29.402	104.748	140.328	1.00	0.00	H
ATOM	193	HE2	MET	X	203	29.821	106.147	139.318	1.00	0.00	H
ATOM	194	HE3	MET	X	203	28.751	104.765	138.826	1.00	0.00	H
ATOM	195	C	MET	X	203	32.494	107.879	135.589	1.00	0.00	C
ATOM	196	O	MET	X	203	32.976	107.288	134.621	1.00	0.00	O
ATOM	197	N	SER	X	204	31.423	108.735	135.460	1.00	0.00	N
ATOM	198	H	SER	X	204	31.095	109.168	136.311	1.00	0.00	H
ATOM	199	CA	SER	X	204	30.683	109.033	134.221	1.00	0.00	C
ATOM	200	HA	SER	X	204	30.405	108.115	133.705	1.00	0.00	H
ATOM	201	CB	SER	X	204	29.333	109.722	134.620	1.00	0.00	C
ATOM	202	HB2	SER	X	204	28.748	109.755	133.700	1.00	0.00	H
ATOM	203	HB3	SER	X	204	28.748	109.111	135.307	1.00	0.00	H
ATOM	204	OG	SER	X	204	29.618	111.082	135.083	1.00	0.00	O
ATOM	205	HG	SER	X	204	28.869	111.341	135.626	1.00	0.00	H
ATOM	206	C	SER	X	204	31.475	109.952	133.275	1.00	0.00	C
ATOM	207	O	SER	X	204	31.491	109.650	132.065	1.00	0.00	O
ATOM	208	N	LYS	X	205	32.182	110.973	133.784	1.00	0.00	N
ATOM	209	H	LYS	X	205	32.004	111.310	134.719	1.00	0.00	H
ATOM	210	CA	LYS	X	205	33.010	111.917	132.976	1.00	0.00	C
ATOM	211	HA	LYS	X	205	32.457	112.430	132.188	1.00	0.00	H
ATOM	212	CB	LYS	X	205	33.657	112.925	133.893	1.00	0.00	C
ATOM	213	HB2	LYS	X	205	32.822	113.499	134.292	1.00	0.00	H
ATOM	214	HB3	LYS	X	205	34.219	112.458	134.702	1.00	0.00	H
ATOM	215	CG	LYS	X	205	34.546	113.901	133.133	1.00	0.00	C
ATOM	216	HG2	LYS	X	205	35.319	113.428	132.527	1.00	0.00	H
ATOM	217	HG3	LYS	X	205	33.916	114.521	132.496	1.00	0.00	H
ATOM	218	CD	LYS	X	205	35.364	114.847	133.991	1.00	0.00	C
ATOM	219	HD2	LYS	X	205	34.667	115.362	134.651	1.00	0.00	H
ATOM	220	HD3	LYS	X	205	36.135	114.353	134.581	1.00	0.00	H
ATOM	221	CE	LYS	X	205	36.155	115.824	133.046	1.00	0.00	C
ATOM	222	HE2	LYS	X	205	36.824	115.337	132.337	1.00	0.00	H
ATOM	223	HE3	LYS	X	205	35.433	116.383	132.452	1.00	0.00	H
ATOM	224	NZ	LYS	X	205	37.004	116.758	133.830	1.00	0.00	N
ATOM	225	HZ1	LYS	X	205	36.451	117.485	134.260	1.00	0.00	H
ATOM	226	HZ2	LYS	X	205	37.566	116.301	134.535	1.00	0.00	H
ATOM	227	HZ3	LYS	X	205	37.639	117.314	133.276	1.00	0.00	H
ATOM	228	C	LYS	X	205	34.119	110.998	132.345	1.00	0.00	C
ATOM	229	O	LYS	X	205	34.288	111.056	131.152	1.00	0.00	O
ATOM	230	N	LEU	X	206	34.733	110.162	133.137	1.00	0.00	N
ATOM	231	H	LEU	X	206	34.582	110.150	134.136	1.00	0.00	H
ATOM	232	CA	LEU	X	206	35.830	109.268	132.704	1.00	0.00	C
ATOM	233	HA	LEU	X	206	36.596	109.903	132.261	1.00	0.00	H
ATOM	234	CB	LEU	X	206	36.455	108.765	134.051	1.00	0.00	C
ATOM	235	HB2	LEU	X	206	36.818	109.592	134.661	1.00	0.00	H
ATOM	236	HB3	LEU	X	206	35.610	108.275	134.534	1.00	0.00	H
ATOM	237	CG	LEU	X	206	37.564	107.693	133.797	1.00	0.00	C
ATOM	238	HG	LEU	X	206	37.155	106.933	133.130	1.00	0.00	H
ATOM	239	CD1	LEU	X	206	38.899	108.395	133.305	1.00	0.00	C
ATOM	240	HD11	LEU	X	206	39.194	109.212	133.964	1.00	0.00	H
ATOM	241	HD12	LEU	X	206	39.726	107.687	133.250	1.00	0.00	H
ATOM	242	HD13	LEU	X	206	38.741	108.807	132.308	1.00	0.00	H
ATOM	243	CD2	LEU	X	206	37.960	107.019	135.110	1.00	0.00	C
ATOM	244	HD21	LEU	X	206	38.285	107.803	135.794	1.00	0.00	H

ATOM	245	HD22	LEU	X	206	37.072	106.510	135.484	1.00	0.00	H
ATOM	246	HD23	LEU	X	206	38.682	106.222	134.932	1.00	0.00	H
ATOM	247	C	LEU	X	206	35.462	108.137	131.710	1.00	0.00	C
ATOM	248	O	LEU	X	206	35.989	108.138	130.632	1.00	0.00	O
ATOM	249	N	ARG	X	207	34.403	107.423	132.049	1.00	0.00	N
ATOM	250	H	ARG	X	207	33.905	107.698	132.885	1.00	0.00	H
ATOM	251	CA	ARG	X	207	33.784	106.485	131.060	1.00	0.00	C
ATOM	252	HA	ARG	X	207	34.503	105.738	130.726	1.00	0.00	H
ATOM	253	CB	ARG	X	207	32.578	105.810	131.710	1.00	0.00	C
ATOM	254	HB2	ARG	X	207	32.850	105.349	132.660	1.00	0.00	H
ATOM	255	HB3	ARG	X	207	31.794	106.476	132.070	1.00	0.00	H
ATOM	256	CG	ARG	X	207	31.833	104.736	130.852	1.00	0.00	C
ATOM	257	HG2	ARG	X	207	31.388	105.217	129.981	1.00	0.00	H
ATOM	258	HG3	ARG	X	207	32.447	103.886	130.555	1.00	0.00	H
ATOM	259	CD	ARG	X	207	30.704	104.125	131.652	1.00	0.00	C
ATOM	260	HD2	ARG	X	207	31.120	103.629	132.528	1.00	0.00	H
ATOM	261	HD3	ARG	X	207	30.201	105.039	131.962	1.00	0.00	H
ATOM	262	NE	ARG	X	207	29.762	103.252	130.881	1.00	0.00	N
ATOM	263	HE	ARG	X	207	30.062	103.117	129.926	1.00	0.00	H
ATOM	264	CZ	ARG	X	207	28.558	102.836	131.306	1.00	0.00	C
ATOM	265	NH1	ARG	X	207	28.084	102.845	132.496	1.00	0.00	N
ATOM	266	HH11	ARG	X	207	28.652	103.199	133.252	1.00	0.00	H
ATOM	267	HH12	ARG	X	207	27.181	102.459	132.735	1.00	0.00	H
ATOM	268	NH2	ARG	X	207	27.643	102.375	130.519	1.00	0.00	N
ATOM	269	HH21	ARG	X	207	27.861	102.326	129.534	1.00	0.00	H
ATOM	270	HH22	ARG	X	207	26.708	102.272	130.886	1.00	0.00	H
ATOM	271	C	ARG	X	207	33.388	107.113	129.724	1.00	0.00	C
ATOM	272	O	ARG	X	207	33.634	106.515	128.676	1.00	0.00	O
ATOM	273	N	THR	X	208	32.853	108.328	129.797	1.00	0.00	N
ATOM	274	H	THR	X	208	32.818	108.694	130.738	1.00	0.00	H
ATOM	275	CA	THR	X	208	32.715	109.241	128.557	1.00	0.00	C
ATOM	276	HA	THR	X	208	32.087	108.619	127.920	1.00	0.00	H
ATOM	277	CB	THR	X	208	31.954	110.525	128.798	1.00	0.00	C
ATOM	278	HB	THR	X	208	32.511	111.190	129.457	1.00	0.00	H
ATOM	279	CG2	THR	X	208	31.722	111.283	127.456	1.00	0.00	C
ATOM	280	HG21	THR	X	208	31.023	110.732	126.827	1.00	0.00	H
ATOM	281	HG22	THR	X	208	31.467	112.335	127.586	1.00	0.00	H
ATOM	282	HG23	THR	X	208	32.665	111.251	126.910	1.00	0.00	H
ATOM	283	OG1	THR	X	208	30.757	110.127	129.384	1.00	0.00	O
ATOM	284	HG1	THR	X	208	30.932	109.789	130.266	1.00	0.00	H
ATOM	285	C	THR	X	208	34.040	109.356	127.786	1.00	0.00	C
ATOM	286	O	THR	X	208	34.088	109.029	126.613	1.00	0.00	O
ATOM	287	N	ILE	X	209	35.078	109.823	128.465	1.00	0.00	N
ATOM	288	H	ILE	X	209	34.871	110.252	129.355	1.00	0.00	H
ATOM	289	CA	ILE	X	209	36.324	110.127	127.758	1.00	0.00	C
ATOM	290	HA	ILE	X	209	36.041	110.711	126.882	1.00	0.00	H
ATOM	291	CB	ILE	X	209	37.239	110.809	128.774	1.00	0.00	C
ATOM	292	HB	ILE	X	209	37.320	110.234	129.696	1.00	0.00	H
ATOM	293	CG2	ILE	X	209	38.629	111.042	128.198	1.00	0.00	C
ATOM	294	HG21	ILE	X	209	38.536	111.484	127.207	1.00	0.00	H
ATOM	295	HG22	ILE	X	209	39.186	111.739	128.825	1.00	0.00	H
ATOM	296	HG23	ILE	X	209	39.166	110.094	128.209	1.00	0.00	H
ATOM	297	CG1	ILE	X	209	36.660	112.225	129.174	1.00	0.00	C
ATOM	298	HG12	ILE	X	209	35.638	112.184	129.549	1.00	0.00	H
ATOM	299	HG13	ILE	X	209	37.256	112.714	129.943	1.00	0.00	H
ATOM	300	CD1	ILE	X	209	36.439	113.177	127.974	1.00	0.00	C
ATOM	301	HD11	ILE	X	209	35.895	112.737	127.139	1.00	0.00	H
ATOM	302	HD12	ILE	X	209	35.904	114.062	128.322	1.00	0.00	H
ATOM	303	HD13	ILE	X	209	37.408	113.479	127.577	1.00	0.00	H
ATOM	304	C	ILE	X	209	37.079	108.942	127.052	1.00	0.00	C
ATOM	305	O	ILE	X	209	37.692	109.059	125.976	1.00	0.00	O
ATOM	306	N	VAL	X	210	36.936	107.703	127.578	1.00	0.00	N
ATOM	307	H	VAL	X	210	36.331	107.563	128.375	1.00	0.00	H
ATOM	308	CA	VAL	X	210	37.343	106.504	126.772	1.00	0.00	C
ATOM	309	HA	VAL	X	210	38.291	106.679	126.260	1.00	0.00	H
ATOM	310	CB	VAL	X	210	37.683	105.270	127.672	1.00	0.00	C
ATOM	311	HB	VAL	X	210	37.990	104.434	127.041	1.00	0.00	H
ATOM	312	CG1	VAL	X	210	38.844	105.708	128.594	1.00	0.00	C
ATOM	313	HG11	VAL	X	210	38.559	106.491	129.298	1.00	0.00	H
ATOM	314	HG12	VAL	X	210	39.132	104.796	129.118	1.00	0.00	H
ATOM	315	HG13	VAL	X	210	39.548	106.047	127.835	1.00	0.00	H
ATOM	316	CG2	VAL	X	210	36.490	104.767	128.497	1.00	0.00	C
ATOM	317	HG21	VAL	X	210	36.660	103.909	129.147	1.00	0.00	H
ATOM	318	HG22	VAL	X	210	36.167	105.628	129.082	1.00	0.00	H
ATOM	319	HG23	VAL	X	210	35.800	104.335	127.771	1.00	0.00	H
ATOM	320	C	VAL	X	210	36.474	106.024	125.665	1.00	0.00	C
ATOM	321	O	VAL	X	210	36.919	105.454	124.638	1.00	0.00	O
ATOM	322	N	ALA	X	211	35.173	106.298	125.817	1.00	0.00	N
ATOM	323	H	ALA	X	211	34.907	106.742	126.685	1.00	0.00	H
ATOM	324	CA	ALA	X	211	34.207	106.259	124.726	1.00	0.00	C
ATOM	325	HA	ALA	X	211	34.172	105.245	124.324	1.00	0.00	H
ATOM	326	CB	ALA	X	211	32.773	106.390	125.229	1.00	0.00	C

ATOM	327	HB1	ALA	X	211	32.583	105.859	126.161	1.00	0.00	H
ATOM	328	HB2	ALA	X	211	32.624	107.445	125.460	1.00	0.00	H
ATOM	329	HB3	ALA	X	211	31.987	106.077	124.541	1.00	0.00	H
ATOM	330	C	ALA	X	211	34.576	107.239	123.580	1.00	0.00	C
ATOM	331	O	ALA	X	211	34.793	106.742	122.464	1.00	0.00	O
ATOM	332	N	ALA	X	212	34.746	108.529	123.796	1.00	0.00	N
ATOM	333	H	ALA	X	212	34.599	108.787	124.760	1.00	0.00	H
ATOM	334	CA	ALA	X	212	35.204	109.547	122.845	1.00	0.00	C
ATOM	335	HA	ALA	X	212	34.441	109.695	122.081	1.00	0.00	H
ATOM	336	CB	ALA	X	212	35.246	110.843	123.647	1.00	0.00	C
ATOM	337	HB1	ALA	X	212	34.223	111.012	123.983	1.00	0.00	H
ATOM	338	HB2	ALA	X	212	35.942	110.752	124.482	1.00	0.00	H
ATOM	339	HB3	ALA	X	212	35.507	111.740	123.085	1.00	0.00	H
ATOM	340	C	ALA	X	212	36.566	109.256	122.155	1.00	0.00	C
ATOM	341	O	ALA	X	212	36.741	109.469	121.043	1.00	0.00	O
ATOM	342	N	GLN	X	213	37.482	108.697	122.922	1.00	0.00	N
ATOM	343	H	GLN	X	213	37.288	108.730	123.913	1.00	0.00	H
ATOM	344	CA	GLN	X	213	38.699	108.012	122.456	1.00	0.00	C
ATOM	345	HA	GLN	X	213	39.205	108.782	121.873	1.00	0.00	H
ATOM	346	CB	GLN	X	213	39.659	107.577	123.579	1.00	0.00	C
ATOM	347	HB2	GLN	X	213	39.684	108.490	124.175	1.00	0.00	H
ATOM	348	HB3	GLN	X	213	39.260	106.716	124.115	1.00	0.00	H
ATOM	349	CG	GLN	X	213	41.043	107.075	123.228	1.00	0.00	C
ATOM	350	HG2	GLN	X	213	40.941	106.115	122.722	1.00	0.00	H
ATOM	351	HG3	GLN	X	213	41.571	107.882	122.723	1.00	0.00	H
ATOM	352	CD	GLN	X	213	41.872	106.713	124.429	1.00	0.00	C
ATOM	353	OE1	GLN	X	213	41.449	106.552	125.519	1.00	0.00	O
ATOM	354	NE2	GLN	X	213	43.159	106.524	124.179	1.00	0.00	N
ATOM	355	HE21	GLN	X	213	43.790	106.165	124.882	1.00	0.00	H
ATOM	356	HE22	GLN	X	213	43.566	106.674	123.268	1.00	0.00	H
ATOM	357	C	GLN	X	213	38.473	106.784	121.593	1.00	0.00	C
ATOM	358	O	GLN	X	213	38.957	106.809	120.458	1.00	0.00	O
ATOM	359	N	SER	X	214	37.864	105.725	122.094	1.00	0.00	N
ATOM	360	H	SER	X	214	37.617	105.786	123.071	1.00	0.00	H
ATOM	361	CA	SER	X	214	37.763	104.434	121.426	1.00	0.00	C
ATOM	362	HA	SER	X	214	38.738	104.239	120.983	1.00	0.00	H
ATOM	363	CB	SER	X	214	37.541	103.283	122.414	1.00	0.00	C
ATOM	364	HB2	SER	X	214	37.538	102.278	121.993	1.00	0.00	H
ATOM	365	HB3	SER	X	214	38.242	103.335	123.247	1.00	0.00	H
ATOM	366	OG	SER	X	214	36.296	103.372	123.096	1.00	0.00	O
ATOM	367	HG	SER	X	214	36.386	104.148	123.653	1.00	0.00	H
ATOM	368	C	SER	X	214	36.705	104.265	120.367	1.00	0.00	C
ATOM	369	O	SER	X	214	36.762	103.440	119.468	1.00	0.00	O
ATOM	370	N	ARG	X	215	35.802	105.255	120.291	1.00	0.00	N
ATOM	371	H	ARG	X	215	35.817	105.914	121.057	1.00	0.00	H
ATOM	372	CA	ARG	X	215	34.917	105.578	119.147	1.00	0.00	C
ATOM	373	HA	ARG	X	215	34.723	104.628	118.646	1.00	0.00	H
ATOM	374	CB	ARG	X	215	33.635	106.303	119.599	1.00	0.00	C
ATOM	375	HB2	ARG	X	215	33.779	107.194	120.209	1.00	0.00	H
ATOM	376	HB3	ARG	X	215	33.179	106.650	118.671	1.00	0.00	H
ATOM	377	CG	ARG	X	215	32.745	105.388	120.458	1.00	0.00	C
ATOM	378	HG2	ARG	X	215	32.394	104.573	119.825	1.00	0.00	H
ATOM	379	HG3	ARG	X	215	33.360	105.109	121.315	1.00	0.00	H
ATOM	380	CD	ARG	X	215	31.477	106.095	120.907	1.00	0.00	C
ATOM	381	HD2	ARG	X	215	31.836	106.832	121.627	1.00	0.00	H
ATOM	382	HD3	ARG	X	215	31.047	106.649	120.072	1.00	0.00	H
ATOM	383	NE	ARG	X	215	30.503	105.182	121.488	1.00	0.00	N
ATOM	384	HE	ARG	X	215	30.288	105.388	122.453	1.00	0.00	H
ATOM	385	CZ	ARG	X	215	29.646	104.310	120.943	1.00	0.00	C
ATOM	386	NH1	ARG	X	215	29.693	103.859	119.708	1.00	0.00	N
ATOM	387	HH11	ARG	X	215	30.294	104.268	119.007	1.00	0.00	H
ATOM	388	HH12	ARG	X	215	28.917	103.293	119.393	1.00	0.00	H
ATOM	389	NH2	ARG	X	215	28.763	103.727	121.763	1.00	0.00	N
ATOM	390	HH21	ARG	X	215	28.676	104.148	122.677	1.00	0.00	H
ATOM	391	HH22	ARG	X	215	28.145	103.045	121.347	1.00	0.00	H
ATOM	392	C	ARG	X	215	35.645	106.410	118.179	1.00	0.00	C
ATOM	393	O	ARG	X	215	35.718	105.933	117.030	1.00	0.00	O
ATOM	394	N	PHE	X	216	36.037	107.626	118.438	1.00	0.00	N
ATOM	395	H	PHE	X	216	35.843	108.083	119.317	1.00	0.00	H
ATOM	396	CA	PHE	X	216	36.574	108.552	117.329	1.00	0.00	C
ATOM	397	HA	PHE	X	216	36.041	108.367	116.396	1.00	0.00	H
ATOM	398	CB	PHE	X	216	36.335	109.953	117.865	1.00	0.00	C
ATOM	399	HB2	PHE	X	216	37.065	110.348	118.572	1.00	0.00	H
ATOM	400	HB3	PHE	X	216	36.518	110.656	117.053	1.00	0.00	H
ATOM	401	CG	PHE	X	216	34.910	110.262	118.439	1.00	0.00	C
ATOM	402	CD1	PHE	X	216	33.792	109.592	117.984	1.00	0.00	C
ATOM	403	HD1	PHE	X	216	33.935	108.888	117.176	1.00	0.00	H
ATOM	404	CE1	PHE	X	216	32.529	109.760	118.618	1.00	0.00	C
ATOM	405	HE1	PHE	X	216	31.686	109.140	118.352	1.00	0.00	H
ATOM	406	CZ	PHE	X	216	32.416	110.776	119.606	1.00	0.00	C
ATOM	407	HZ	PHE	X	216	31.521	110.734	120.210	1.00	0.00	H
ATOM	408	CE2	PHE	X	216	33.579	111.335	120.172	1.00	0.00	C

ATOM	409	HE2	PHE	X	216	33.456	111.952	121.049	1.00	0.00	H
ATOM	410	CD2	PHE	X	216	34.872	111.124	119.543	1.00	0.00	C
ATOM	411	HD2	PHE	X	216	35.785	111.503	119.983	1.00	0.00	H
ATOM	412	C	PHE	X	216	38.111	108.433	116.966	1.00	0.00	C
ATOM	413	O	PHE	X	216	38.429	108.379	115.792	1.00	0.00	O
ATOM	414	N	LEU	X	217	38.988	108.365	117.952	1.00	0.00	N
ATOM	415	H	LEU	X	217	38.583	108.041	118.819	1.00	0.00	H
ATOM	416	CA	LEU	X	217	40.426	108.506	117.808	1.00	0.00	C
ATOM	417	HA	LEU	X	217	40.859	108.537	118.807	1.00	0.00	H
ATOM	418	CB	LEU	X	217	40.967	107.214	117.080	1.00	0.00	C
ATOM	419	HB2	LEU	X	217	40.734	107.265	116.016	1.00	0.00	H
ATOM	420	HB3	LEU	X	217	42.055	107.203	117.127	1.00	0.00	H
ATOM	421	CG	LEU	X	217	40.601	105.783	117.646	1.00	0.00	C
ATOM	422	HG	LEU	X	217	39.562	105.650	117.948	1.00	0.00	H
ATOM	423	CD1	LEU	X	217	40.860	104.623	116.683	1.00	0.00	C
ATOM	424	HD11	LEU	X	217	40.630	104.841	115.640	1.00	0.00	H
ATOM	425	HD12	LEU	X	217	41.919	104.430	116.519	1.00	0.00	H
ATOM	426	HD13	LEU	X	217	40.367	103.705	117.006	1.00	0.00	H
ATOM	427	CD2	LEU	X	217	41.375	105.412	118.973	1.00	0.00	C
ATOM	428	HD21	LEU	X	217	42.427	105.321	118.705	1.00	0.00	H
ATOM	429	HD22	LEU	X	217	41.289	106.240	119.678	1.00	0.00	H
ATOM	430	HD23	LEU	X	217	40.946	104.575	119.523	1.00	0.00	H
ATOM	431	C	LEU	X	217	40.879	109.873	117.182	1.00	0.00	C
ATOM	432	O	LEU	X	217	40.036	110.719	116.828	1.00	0.00	O
ATOM	433	N	SER	X	218	42.166	110.060	117.029	1.00	0.00	N
ATOM	434	H	SER	X	218	42.759	109.434	117.555	1.00	0.00	H
ATOM	435	CA	SER	X	218	42.760	111.249	116.455	1.00	0.00	C
ATOM	436	HA	SER	X	218	42.242	112.140	116.808	1.00	0.00	H
ATOM	437	CB	SER	X	218	44.212	111.524	116.932	1.00	0.00	C
ATOM	438	HB2	SER	X	218	44.868	110.839	116.393	1.00	0.00	H
ATOM	439	HB3	SER	X	218	44.419	112.573	116.725	1.00	0.00	H
ATOM	440	OG	SER	X	218	44.329	111.225	118.367	1.00	0.00	O
ATOM	441	HG	SER	X	218	45.107	111.677	118.700	1.00	0.00	H
ATOM	442	C	SER	X	218	42.846	111.280	114.933	1.00	0.00	C
ATOM	443	O	SER	X	218	42.775	112.315	114.207	1.00	0.00	O
ATOM	444	N	THR	X	219	42.790	110.076	114.332	1.00	0.00	N
ATOM	445	H	THR	X	219	42.839	109.205	114.842	1.00	0.00	H
ATOM	446	CA	THR	X	219	42.806	109.811	112.887	1.00	0.00	C
ATOM	447	HA	THR	X	219	43.740	110.230	112.511	1.00	0.00	H
ATOM	448	CB	THR	X	219	42.943	108.269	112.737	1.00	0.00	C
ATOM	449	HB	THR	X	219	42.041	107.800	113.130	1.00	0.00	H
ATOM	450	CG2	THR	X	219	42.806	107.953	111.304	1.00	0.00	C
ATOM	451	HG21	THR	X	219	43.127	108.743	110.624	1.00	0.00	H
ATOM	452	HG22	THR	X	219	43.275	107.001	111.055	1.00	0.00	H
ATOM	453	HG23	THR	X	219	41.724	107.881	111.203	1.00	0.00	H
ATOM	454	OG1	THR	X	219	44.245	107.721	113.066	1.00	0.00	O
ATOM	455	HG1	THR	X	219	44.491	108.034	113.939	1.00	0.00	H
ATOM	456	C	THR	X	219	41.775	110.476	111.981	1.00	0.00	C
ATOM	457	O	THR	X	219	40.574	110.419	112.304	1.00	0.00	O
ATOM	458	N	TYR	X	220	42.152	111.152	110.910	1.00	0.00	N
ATOM	459	H	TYR	X	220	43.115	111.025	110.629	1.00	0.00	H
ATOM	460	CA	TYR	X	220	41.295	111.697	109.889	1.00	0.00	C
ATOM	461	HA	TYR	X	220	40.786	112.593	110.244	1.00	0.00	H
ATOM	462	CB	TYR	X	220	42.199	112.171	108.746	1.00	0.00	C
ATOM	463	HB2	TYR	X	220	42.779	111.375	108.278	1.00	0.00	H
ATOM	464	HB3	TYR	X	220	41.613	112.662	107.969	1.00	0.00	H
ATOM	465	CG	TYR	X	220	43.259	113.213	109.226	1.00	0.00	C
ATOM	466	CD1	TYR	X	220	44.562	113.350	108.654	1.00	0.00	C
ATOM	467	HD1	TYR	X	220	44.919	112.563	108.006	1.00	0.00	H
ATOM	468	CE1	TYR	X	220	45.507	114.263	109.152	1.00	0.00	C
ATOM	469	HE1	TYR	X	220	46.538	114.237	108.834	1.00	0.00	H
ATOM	470	CZ	TYR	X	220	45.153	115.254	110.114	1.00	0.00	C
ATOM	471	OH	TYR	X	220	46.072	116.113	110.558	1.00	0.00	O
ATOM	472	HH	TYR	X	220	46.756	115.670	111.065	1.00	0.00	H
ATOM	473	CE2	TYR	X	220	43.787	115.370	110.450	1.00	0.00	C
ATOM	474	HE2	TYR	X	220	43.532	116.140	111.163	1.00	0.00	H
ATOM	475	CD2	TYR	X	220	42.873	114.363	110.007	1.00	0.00	C
ATOM	476	HD2	TYR	X	220	41.836	114.441	110.298	1.00	0.00	H
ATOM	477	C	TYR	X	220	40.229	110.681	109.390	1.00	0.00	C
ATOM	478	O	TYR	X	220	40.521	109.543	109.065	1.00	0.00	O
ATOM	479	N	ASP	X	221	38.951	111.154	109.346	1.00	0.00	N
ATOM	480	H	ASP	X	221	38.915	112.152	109.501	1.00	0.00	H
ATOM	481	CA	ASP	X	221	37.713	110.441	108.938	1.00	0.00	C
ATOM	482	HA	ASP	X	221	36.942	111.201	109.054	1.00	0.00	H
ATOM	483	CB	ASP	X	221	37.421	110.114	107.406	1.00	0.00	C
ATOM	484	HB2	ASP	X	221	38.314	109.511	107.241	1.00	0.00	H
ATOM	485	HB3	ASP	X	221	36.458	109.629	107.242	1.00	0.00	H
ATOM	486	CG	ASP	X	221	37.377	111.289	106.473	1.00	0.00	C
ATOM	487	OD1	ASP	X	221	37.068	112.412	106.938	1.00	0.00	O
ATOM	488	OD2	ASP	X	221	37.520	111.106	105.248	1.00	0.00	O
ATOM	489	C	ASP	X	221	37.398	109.380	110.015	1.00	0.00	C
ATOM	490	O	ASP	X	221	36.524	108.601	109.762	1.00	0.00	O

ATOM	491	N	GLY	X	222	38.157	109.339	111.168	1.00	0.00	N
ATOM	492	H	GLY	X	222	38.992	109.910	111.182	1.00	0.00	H
ATOM	493	CA	GLY	X	222	37.971	108.279	112.181	1.00	0.00	C
ATOM	494	HA2	GLY	X	222	38.024	107.329	111.651	1.00	0.00	H
ATOM	495	HA3	GLY	X	222	38.726	108.442	112.951	1.00	0.00	H
ATOM	496	C	GLY	X	222	36.615	108.288	112.817	1.00	0.00	C
ATOM	497	O	GLY	X	222	36.112	107.246	113.170	1.00	0.00	O
ATOM	498	N	ALA	X	223	36.118	109.465	112.974	1.00	0.00	N
ATOM	499	H	ALA	X	223	36.670	110.250	112.661	1.00	0.00	H
ATOM	500	CA	ALA	X	223	34.837	109.780	113.482	1.00	0.00	C
ATOM	501	HA	ALA	X	223	34.572	109.011	114.206	1.00	0.00	H
ATOM	502	CB	ALA	X	223	34.949	111.079	114.273	1.00	0.00	C
ATOM	503	HB1	ALA	X	223	35.739	110.990	115.019	1.00	0.00	H
ATOM	504	HB2	ALA	X	223	35.217	111.946	113.670	1.00	0.00	H
ATOM	505	HB3	ALA	X	223	34.015	111.277	114.801	1.00	0.00	H
ATOM	506	C	ALA	X	223	33.734	109.801	112.378	1.00	0.00	C
ATOM	507	O	ALA	X	223	32.550	109.768	112.780	1.00	0.00	O
ATOM	508	N	GLU	X	224	34.115	109.911	111.083	1.00	0.00	N
ATOM	509	H	GLU	X	224	35.087	109.796	110.834	1.00	0.00	H
ATOM	510	CA	GLU	X	224	33.136	109.646	110.017	1.00	0.00	C
ATOM	511	HA	GLU	X	224	32.150	110.066	110.219	1.00	0.00	H
ATOM	512	CB	GLU	X	224	33.493	110.322	108.728	1.00	0.00	C
ATOM	513	HB2	GLU	X	224	34.541	110.107	108.529	1.00	0.00	H
ATOM	514	HB3	GLU	X	224	32.781	110.016	107.962	1.00	0.00	H
ATOM	515	CG	GLU	X	224	33.402	111.839	108.763	1.00	0.00	C
ATOM	516	HG2	GLU	X	224	34.003	112.279	109.559	1.00	0.00	H
ATOM	517	HG3	GLU	X	224	33.831	112.233	107.842	1.00	0.00	H
ATOM	518	CD	GLU	X	224	31.973	112.356	109.078	1.00	0.00	C
ATOM	519	OE1	GLU	X	224	31.759	113.318	109.923	1.00	0.00	O
ATOM	520	OE2	GLU	X	224	30.980	111.831	108.558	1.00	0.00	O
ATOM	521	C	GLU	X	224	32.943	108.143	109.644	1.00	0.00	C
ATOM	522	O	GLU	X	224	31.949	107.893	108.999	1.00	0.00	O
ATOM	523	N	ASN	X	225	33.782	107.206	110.062	1.00	0.00	N
ATOM	524	H	ASN	X	225	34.526	107.458	110.696	1.00	0.00	H
ATOM	525	CA	ASN	X	225	33.750	105.744	109.879	1.00	0.00	C
ATOM	526	HA	ASN	X	225	33.351	105.435	108.912	1.00	0.00	H
ATOM	527	CB	ASN	X	225	35.118	105.100	110.237	1.00	0.00	C
ATOM	528	HB2	ASN	X	225	35.406	105.470	111.220	1.00	0.00	H
ATOM	529	HB3	ASN	X	225	35.053	104.013	110.293	1.00	0.00	H
ATOM	530	CG	ASN	X	225	36.069	105.395	109.085	1.00	0.00	C
ATOM	531	OD1	ASN	X	225	35.875	105.018	107.979	1.00	0.00	O
ATOM	532	ND2	ASN	X	225	37.257	105.704	109.462	1.00	0.00	N
ATOM	533	HD21	ASN	X	225	37.889	106.064	108.760	1.00	0.00	H
ATOM	534	HD22	ASN	X	225	37.567	105.819	110.417	1.00	0.00	H
ATOM	535	C	ASN	X	225	32.644	105.241	110.814	1.00	0.00	C
ATOM	536	O	ASN	X	225	32.156	105.906	111.722	1.00	0.00	O
ATOM	537	N	LEU	X	226	32.319	104.033	110.546	1.00	0.00	N
ATOM	538	H	LEU	X	226	32.568	103.633	109.653	1.00	0.00	H
ATOM	539	CA	LEU	X	226	31.548	103.233	111.496	1.00	0.00	C
ATOM	540	HA	LEU	X	226	30.674	103.744	111.901	1.00	0.00	H
ATOM	541	CB	LEU	X	226	30.974	101.997	110.860	1.00	0.00	C
ATOM	542	HB2	LEU	X	226	31.750	101.250	110.688	1.00	0.00	H
ATOM	543	HB3	LEU	X	226	30.223	101.764	111.615	1.00	0.00	H
ATOM	544	CG	LEU	X	226	30.135	102.243	109.513	1.00	0.00	C
ATOM	545	HG	LEU	X	226	30.837	102.683	108.807	1.00	0.00	H
ATOM	546	CD1	LEU	X	226	29.664	100.883	108.876	1.00	0.00	C
ATOM	547	HD11	LEU	X	226	28.792	100.500	109.407	1.00	0.00	H
ATOM	548	HD12	LEU	X	226	29.432	101.015	107.819	1.00	0.00	H
ATOM	549	HD13	LEU	X	226	30.430	100.116	108.974	1.00	0.00	H
ATOM	550	CD2	LEU	X	226	28.877	103.116	109.635	1.00	0.00	C
ATOM	551	HD21	LEU	X	226	29.155	104.167	109.727	1.00	0.00	H
ATOM	552	HD22	LEU	X	226	28.194	102.972	108.800	1.00	0.00	H
ATOM	553	HD23	LEU	X	226	28.431	102.774	110.569	1.00	0.00	H
ATOM	554	C	LEU	X	226	32.395	102.818	112.747	1.00	0.00	C
ATOM	555	O	LEU	X	226	33.584	102.620	112.665	1.00	0.00	O
ATOM	556	N	CYS	X	227	31.638	102.532	113.776	1.00	0.00	N
ATOM	557	H	CYS	X	227	30.641	102.373	113.744	1.00	0.00	H
ATOM	558	CA	CYS	X	227	32.162	101.887	114.993	1.00	0.00	C
ATOM	559	HA	CYS	X	227	33.218	102.112	115.145	1.00	0.00	H
ATOM	560	CB	CYS	X	227	31.451	102.573	116.190	1.00	0.00	C
ATOM	561	HB2	CYS	X	227	31.696	103.615	115.987	1.00	0.00	H
ATOM	562	HB3	CYS	X	227	30.382	102.373	116.113	1.00	0.00	H
ATOM	563	SG	CYS	X	227	32.070	101.977	117.767	1.00	0.00	S
ATOM	564	HG	CYS	X	227	33.334	102.260	117.437	1.00	0.00	H
ATOM	565	C	CYS	X	227	32.023	100.339	115.114	1.00	0.00	C
ATOM	566	O	CYS	X	227	31.120	99.733	114.559	1.00	0.00	O
ATOM	567	N	LEU	X	228	32.931	99.767	115.862	1.00	0.00	N
ATOM	568	H	LEU	X	228	33.718	100.337	116.139	1.00	0.00	H
ATOM	569	CA	LEU	X	228	32.947	98.346	116.151	1.00	0.00	C
ATOM	570	HA	LEU	X	228	32.924	97.739	115.245	1.00	0.00	H
ATOM	571	CB	LEU	X	228	34.273	97.990	116.817	1.00	0.00	C
ATOM	572	HB2	LEU	X	228	34.483	98.512	117.751	1.00	0.00	H

ATOM	573	HB3	LEU	X	228	34.264	96.922	117.028	1.00	0.00	H
ATOM	574	CG	LEU	X	228	35.409	98.334	115.854	1.00	0.00	C
ATOM	575	HG	LEU	X	228	35.357	99.332	115.420	1.00	0.00	H
ATOM	576	CD1	LEU	X	228	36.750	98.088	116.596	1.00	0.00	C
ATOM	577	HD11	LEU	X	228	36.641	98.536	117.584	1.00	0.00	H
ATOM	578	HD12	LEU	X	228	36.843	97.005	116.654	1.00	0.00	H
ATOM	579	HD13	LEU	X	228	37.512	98.620	116.025	1.00	0.00	H
ATOM	580	CD2	LEU	X	228	35.487	97.445	114.598	1.00	0.00	C
ATOM	581	HD21	LEU	X	228	35.275	96.399	114.827	1.00	0.00	H
ATOM	582	HD22	LEU	X	228	34.742	97.795	113.883	1.00	0.00	H
ATOM	583	HD23	LEU	X	228	36.464	97.577	114.135	1.00	0.00	H
ATOM	584	C	LEU	X	228	31.773	97.842	117.017	1.00	0.00	C
ATOM	585	O	LEU	X	228	31.410	96.654	116.924	1.00	0.00	O
ATOM	586	N	GLU	X	229	31.026	98.773	117.531	1.00	0.00	N
ATOM	587	H	GLU	X	229	31.356	99.725	117.461	1.00	0.00	H
ATOM	588	CA	GLU	X	229	29.686	98.494	118.167	1.00	0.00	C
ATOM	589	HA	GLU	X	229	29.822	97.800	118.996	1.00	0.00	H
ATOM	590	CB	GLU	X	229	29.104	99.819	118.760	1.00	0.00	C
ATOM	591	HB2	GLU	X	229	29.678	100.027	119.664	1.00	0.00	H
ATOM	592	HB3	GLU	X	229	29.286	100.573	117.996	1.00	0.00	H
ATOM	593	CG	GLU	X	229	27.632	99.771	119.121	1.00	0.00	C
ATOM	594	HG2	GLU	X	229	27.134	99.419	118.217	1.00	0.00	H
ATOM	595	HG3	GLU	X	229	27.475	98.938	119.805	1.00	0.00	H
ATOM	596	CD	GLU	X	229	26.928	100.935	119.759	1.00	0.00	C
ATOM	597	OE1	GLU	X	229	25.724	100.768	120.206	1.00	0.00	O
ATOM	598	OE2	GLU	X	229	27.564	102.009	119.868	1.00	0.00	O
ATOM	599	C	GLU	X	229	28.747	97.672	117.235	1.00	0.00	C
ATOM	600	O	GLU	X	229	28.172	96.611	117.561	1.00	0.00	O
ATOM	601	N	ASP	X	230	28.705	98.204	116.042	1.00	0.00	N
ATOM	602	H	ASP	X	230	29.194	99.048	115.777	1.00	0.00	H
ATOM	603	CA	ASP	X	230	27.931	97.575	114.927	1.00	0.00	C
ATOM	604	HA	ASP	X	230	27.074	97.088	115.388	1.00	0.00	H
ATOM	605	CB	ASP	X	230	27.446	98.627	113.911	1.00	0.00	C
ATOM	606	HB2	ASP	X	230	26.918	99.421	114.437	1.00	0.00	H
ATOM	607	HB3	ASP	X	230	28.286	99.076	113.381	1.00	0.00	H
ATOM	608	CG	ASP	X	230	26.387	98.073	112.925	1.00	0.00	C
ATOM	609	OD1	ASP	X	230	25.495	97.320	113.309	1.00	0.00	O
ATOM	610	OD2	ASP	X	230	26.565	98.328	111.719	1.00	0.00	O
ATOM	611	C	ASP	X	230	28.567	96.386	114.205	1.00	0.00	C
ATOM	612	O	ASP	X	230	27.839	95.455	113.926	1.00	0.00	O
ATOM	613	N	ILE	X	231	29.846	96.387	113.887	1.00	0.00	N
ATOM	614	H	ILE	X	231	30.339	97.236	114.123	1.00	0.00	H
ATOM	615	CA	ILE	X	231	30.598	95.470	112.969	1.00	0.00	C
ATOM	616	HA	ILE	X	231	29.971	94.660	112.595	1.00	0.00	H
ATOM	617	CB	ILE	X	231	30.907	96.337	111.669	1.00	0.00	C
ATOM	618	HB	ILE	X	231	31.463	95.745	110.943	1.00	0.00	H
ATOM	619	CG2	ILE	X	231	29.670	96.904	110.952	1.00	0.00	C
ATOM	620	HG21	ILE	X	231	29.813	97.122	109.894	1.00	0.00	H
ATOM	621	HG22	ILE	X	231	28.831	96.208	110.943	1.00	0.00	H
ATOM	622	HG23	ILE	X	231	29.298	97.711	111.585	1.00	0.00	H
ATOM	623	CG1	ILE	X	231	31.862	97.508	112.019	1.00	0.00	C
ATOM	624	HG12	ILE	X	231	31.291	98.242	112.588	1.00	0.00	H
ATOM	625	HG13	ILE	X	231	32.621	97.067	112.665	1.00	0.00	H
ATOM	626	CD1	ILE	X	231	32.487	98.179	110.789	1.00	0.00	C
ATOM	627	HD11	ILE	X	231	32.814	97.471	110.028	1.00	0.00	H
ATOM	628	HD12	ILE	X	231	31.726	98.849	110.390	1.00	0.00	H
ATOM	629	HD13	ILE	X	231	33.387	98.730	111.068	1.00	0.00	H
ATOM	630	C	ILE	X	231	31.882	94.756	113.429	1.00	0.00	C
ATOM	631	O	ILE	X	231	32.622	94.298	112.601	1.00	0.00	O
ATOM	632	N	TYR	X	232	32.129	94.570	114.770	1.00	0.00	N
ATOM	633	H	TYR	X	232	31.483	94.882	115.481	1.00	0.00	H
ATOM	634	CA	TYR	X	232	33.347	93.867	115.163	1.00	0.00	C
ATOM	635	HA	TYR	X	232	34.229	94.403	114.815	1.00	0.00	H
ATOM	636	CB	TYR	X	232	33.372	93.644	116.743	1.00	0.00	C
ATOM	637	HB2	TYR	X	232	33.368	94.646	117.170	1.00	0.00	H
ATOM	638	HB3	TYR	X	232	32.493	93.076	117.050	1.00	0.00	H
ATOM	639	CG	TYR	X	232	34.557	92.935	117.314	1.00	0.00	C
ATOM	640	CD1	TYR	X	232	35.808	93.568	117.147	1.00	0.00	C
ATOM	641	HD1	TYR	X	232	35.938	94.482	116.588	1.00	0.00	H
ATOM	642	CE1	TYR	X	232	36.921	92.927	117.749	1.00	0.00	C
ATOM	643	HE1	TYR	X	232	37.883	93.413	117.676	1.00	0.00	H
ATOM	644	CZ	TYR	X	232	36.778	91.730	118.461	1.00	0.00	C
ATOM	645	OH	TYR	X	232	37.855	91.064	118.877	1.00	0.00	O
ATOM	646	HH	TYR	X	232	38.646	91.358	118.417	1.00	0.00	H
ATOM	647	CE2	TYR	X	232	35.562	91.123	118.586	1.00	0.00	C
ATOM	648	HE2	TYR	X	232	35.516	90.165	119.080	1.00	0.00	H
ATOM	649	CD2	TYR	X	232	34.418	91.712	117.975	1.00	0.00	C
ATOM	650	HD2	TYR	X	232	33.430	91.282	118.054	1.00	0.00	H
ATOM	651	C	TYR	X	232	33.529	92.509	114.493	1.00	0.00	C
ATOM	652	O	TYR	X	232	32.590	91.798	114.318	1.00	0.00	O
ATOM	653	N	THR	X	233	34.779	92.131	114.221	1.00	0.00	N
ATOM	654	H	THR	X	233	35.434	92.896	114.285	1.00	0.00	H

ATOM	655	CA	THR	X	233	35.208	90.828	113.855	1.00	0.00	C
ATOM	656	HA	THR	X	233	34.327	90.191	113.927	1.00	0.00	H
ATOM	657	CB	THR	X	233	35.797	90.790	112.429	1.00	0.00	C
ATOM	658	HB	THR	X	233	36.647	91.458	112.289	1.00	0.00	H
ATOM	659	CG2	THR	X	233	36.171	89.335	111.908	1.00	0.00	C
ATOM	660	HG21	THR	X	233	36.307	89.352	110.826	1.00	0.00	H
ATOM	661	HG22	THR	X	233	37.154	88.997	112.239	1.00	0.00	H
ATOM	662	HG23	THR	X	233	35.492	88.518	112.157	1.00	0.00	H
ATOM	663	OG1	THR	X	233	34.703	91.232	111.544	1.00	0.00	O
ATOM	664	HG1	THR	X	233	34.392	92.051	111.937	1.00	0.00	H
ATOM	665	C	THR	X	233	36.148	90.239	114.888	1.00	0.00	C
ATOM	666	O	THR	X	233	37.170	90.838	115.111	1.00	0.00	O
ATOM	667	N	GLU	X	234	35.780	89.027	115.416	1.00	0.00	N
ATOM	668	H	GLU	X	234	34.870	88.646	115.192	1.00	0.00	H
ATOM	669	CA	GLU	X	234	36.472	88.247	116.502	1.00	0.00	C
ATOM	670	HA	GLU	X	234	36.657	88.913	117.345	1.00	0.00	H
ATOM	671	CB	GLU	X	234	35.767	86.955	116.948	1.00	0.00	C
ATOM	672	HB2	GLU	X	234	35.243	86.395	116.175	1.00	0.00	H
ATOM	673	HB3	GLU	X	234	36.442	86.186	117.323	1.00	0.00	H
ATOM	674	CG	GLU	X	234	34.784	87.298	118.085	1.00	0.00	C
ATOM	675	HG2	GLU	X	234	34.422	86.339	118.454	1.00	0.00	H
ATOM	676	HG3	GLU	X	234	35.198	87.899	118.895	1.00	0.00	H
ATOM	677	CD	GLU	X	234	33.552	88.075	117.547	1.00	0.00	C
ATOM	678	OE1	GLU	X	234	33.232	88.015	116.334	1.00	0.00	O
ATOM	679	OE2	GLU	X	234	32.841	88.609	118.412	1.00	0.00	O
ATOM	680	C	GLU	X	234	37.919	87.964	116.082	1.00	0.00	C
ATOM	681	O	GLU	X	234	38.213	87.006	115.301	1.00	0.00	O
ATOM	682	N	ASN	X	235	38.863	88.793	116.573	1.00	0.00	N
ATOM	683	H	ASN	X	235	38.623	89.667	117.022	1.00	0.00	H
ATOM	684	CA	ASN	X	235	40.333	88.566	116.476	1.00	0.00	C
ATOM	685	HA	ASN	X	235	40.594	88.615	115.419	1.00	0.00	H
ATOM	686	CB	ASN	X	235	41.148	89.654	117.174	1.00	0.00	C
ATOM	687	HB2	ASN	X	235	40.955	89.522	118.238	1.00	0.00	H
ATOM	688	HB3	ASN	X	235	42.224	89.550	117.034	1.00	0.00	H
ATOM	689	CG	ASN	X	235	40.858	91.118	116.792	1.00	0.00	C
ATOM	690	OD1	ASN	X	235	40.162	91.824	117.506	1.00	0.00	O
ATOM	691	ND2	ASN	X	235	41.440	91.633	115.733	1.00	0.00	N
ATOM	692	HD21	ASN	X	235	41.195	92.544	115.371	1.00	0.00	H
ATOM	693	HD22	ASN	X	235	41.972	90.974	115.184	1.00	0.00	H
ATOM	694	C	ASN	X	235	40.715	87.161	116.970	1.00	0.00	C
ATOM	695	O	ASN	X	235	41.259	86.353	116.248	1.00	0.00	O
ATOM	696	N	THR	X	236	40.333	86.857	118.220	1.00	0.00	N
ATOM	697	H	THR	X	236	40.079	87.645	118.800	1.00	0.00	H
ATOM	698	CA	THR	X	236	40.599	85.577	118.965	1.00	0.00	C
ATOM	699	HA	THR	X	236	40.143	85.727	119.943	1.00	0.00	H
ATOM	700	CB	THR	X	236	39.945	84.259	118.407	1.00	0.00	C
ATOM	701	HB	THR	X	236	40.041	83.456	119.138	1.00	0.00	H
ATOM	702	CG2	THR	X	236	38.446	84.316	118.063	1.00	0.00	C
ATOM	703	HG21	THR	X	236	38.241	84.681	117.056	1.00	0.00	H
ATOM	704	HG22	THR	X	236	38.061	83.305	118.192	1.00	0.00	H
ATOM	705	HG23	THR	X	236	37.839	84.958	118.700	1.00	0.00	H
ATOM	706	OG1	THR	X	236	40.518	84.022	117.096	1.00	0.00	O
ATOM	707	HG1	THR	X	236	40.541	84.852	116.615	1.00	0.00	H
ATOM	708	C	THR	X	236	42.039	85.324	119.411	1.00	0.00	C
ATOM	709	O	THR	X	236	42.946	85.991	118.885	1.00	0.00	O
ATOM	710	N	LEU	X	237	42.282	84.429	120.369	1.00	0.00	N
ATOM	711	H	LEU	X	237	41.511	83.920	120.776	1.00	0.00	H
ATOM	712	CA	LEU	X	237	43.541	84.169	121.000	1.00	0.00	C
ATOM	713	HA	LEU	X	237	44.384	84.579	120.445	1.00	0.00	H
ATOM	714	CB	LEU	X	237	43.481	84.811	122.427	1.00	0.00	C
ATOM	715	HB2	LEU	X	237	42.648	84.334	122.942	1.00	0.00	H
ATOM	716	HB3	LEU	X	237	44.380	84.598	123.006	1.00	0.00	H
ATOM	717	CG	LEU	X	237	43.230	86.282	122.526	1.00	0.00	C
ATOM	718	HG	LEU	X	237	42.367	86.492	121.894	1.00	0.00	H
ATOM	719	CD1	LEU	X	237	42.902	86.555	123.952	1.00	0.00	C
ATOM	720	HD11	LEU	X	237	43.803	86.262	124.489	1.00	0.00	H
ATOM	721	HD12	LEU	X	237	42.707	87.607	124.164	1.00	0.00	H
ATOM	722	HD13	LEU	X	237	42.188	85.818	124.319	1.00	0.00	H
ATOM	723	CD2	LEU	X	237	44.416	87.126	122.144	1.00	0.00	C
ATOM	724	HD21	LEU	X	237	45.334	86.734	122.584	1.00	0.00	H
ATOM	725	HD22	LEU	X	237	44.413	87.011	121.061	1.00	0.00	H
ATOM	726	HD23	LEU	X	237	44.289	88.179	122.394	1.00	0.00	H
ATOM	727	C	LEU	X	237	43.772	82.701	121.197	1.00	0.00	C
ATOM	728	O	LEU	X	237	42.856	81.907	121.282	1.00	0.00	O
ATOM	729	N	GLU	X	238	45.064	82.430	121.400	1.00	0.00	N
ATOM	730	H	GLU	X	238	45.791	83.130	121.385	1.00	0.00	H
ATOM	731	CA	GLU	X	238	45.458	81.136	121.849	1.00	0.00	C
ATOM	732	HA	GLU	X	238	44.606	80.487	122.053	1.00	0.00	H
ATOM	733	CB	GLU	X	238	46.219	80.285	120.820	1.00	0.00	C
ATOM	734	HB2	GLU	X	238	46.593	79.348	121.232	1.00	0.00	H
ATOM	735	HB3	GLU	X	238	45.536	80.138	119.983	1.00	0.00	H
ATOM	736	CG	GLU	X	238	47.465	80.881	120.164	1.00	0.00	C

ATOM	737	HG2	GLU	X	238	47.411	81.872	119.710	1.00	0.00	H
ATOM	738	HG3	GLU	X	238	48.208	81.050	120.944	1.00	0.00	H
ATOM	739	CD	GLU	X	238	47.939	79.965	119.002	1.00	0.00	C
ATOM	740	OE1	GLU	X	238	47.381	78.866	118.692	1.00	0.00	O
ATOM	741	OE2	GLU	X	238	48.885	80.426	118.312	1.00	0.00	O
ATOM	742	C	GLU	X	238	46.326	81.182	123.116	1.00	0.00	C
ATOM	743	O	GLU	X	238	47.098	82.050	123.417	1.00	0.00	O
ATOM	744	N	VAL	X	239	46.216	80.165	123.899	1.00	0.00	N
ATOM	745	H	VAL	X	239	45.571	79.425	123.657	1.00	0.00	H
ATOM	746	CA	VAL	X	239	47.127	79.955	125.055	1.00	0.00	C
ATOM	747	HA	VAL	X	239	46.999	80.836	125.684	1.00	0.00	H
ATOM	748	CB	VAL	X	239	46.677	78.755	125.885	1.00	0.00	C
ATOM	749	HB	VAL	X	239	46.573	77.979	125.127	1.00	0.00	H
ATOM	750	CG1	VAL	X	239	47.688	78.298	126.900	1.00	0.00	C
ATOM	751	HG11	VAL	X	239	48.669	78.066	126.486	1.00	0.00	H
ATOM	752	HG12	VAL	X	239	47.768	79.169	127.552	1.00	0.00	H
ATOM	753	HG13	VAL	X	239	47.253	77.495	127.494	1.00	0.00	H
ATOM	754	CG2	VAL	X	239	45.274	78.976	126.534	1.00	0.00	C
ATOM	755	HG21	VAL	X	239	45.370	79.833	127.200	1.00	0.00	H
ATOM	756	HG22	VAL	X	239	44.536	79.339	125.817	1.00	0.00	H
ATOM	757	HG23	VAL	X	239	44.782	78.111	126.978	1.00	0.00	H
ATOM	758	C	VAL	X	239	48.542	79.846	124.680	1.00	0.00	C
ATOM	759	O	VAL	X	239	48.892	78.950	123.920	1.00	0.00	O
ATOM	760	N	ARG	X	240	49.304	80.736	125.278	1.00	0.00	N
ATOM	761	H	ARG	X	240	48.850	81.466	125.808	1.00	0.00	H
ATOM	762	CA	ARG	X	240	50.749	81.038	125.074	1.00	0.00	C
ATOM	763	HA	ARG	X	240	50.953	81.978	125.587	1.00	0.00	H
ATOM	764	CB	ARG	X	240	51.565	79.967	125.758	1.00	0.00	C
ATOM	765	HB2	ARG	X	240	51.405	78.938	125.436	1.00	0.00	H
ATOM	766	HB3	ARG	X	240	52.613	80.125	125.506	1.00	0.00	H
ATOM	767	CG	ARG	X	240	51.539	79.812	127.250	1.00	0.00	C
ATOM	768	HG2	ARG	X	240	51.882	80.768	127.646	1.00	0.00	H
ATOM	769	HG3	ARG	X	240	50.523	79.616	127.592	1.00	0.00	H
ATOM	770	CD	ARG	X	240	52.576	78.739	127.759	1.00	0.00	C
ATOM	771	HD2	ARG	X	240	53.586	78.974	127.424	1.00	0.00	H
ATOM	772	HD3	ARG	X	240	52.634	78.802	128.846	1.00	0.00	H
ATOM	773	NE	ARG	X	240	52.113	77.422	127.393	1.00	0.00	N
ATOM	774	HE	ARG	X	240	52.600	77.091	126.574	1.00	0.00	H
ATOM	775	CZ	ARG	X	240	51.292	76.537	127.972	1.00	0.00	C
ATOM	776	NH1	ARG	X	240	50.688	76.715	129.134	1.00	0.00	N
ATOM	777	HH11	ARG	X	240	50.953	77.507	129.702	1.00	0.00	H
ATOM	778	HH12	ARG	X	240	49.898	76.127	129.362	1.00	0.00	H
ATOM	779	NH2	ARG	X	240	51.059	75.410	127.483	1.00	0.00	N
ATOM	780	HH21	ARG	X	240	51.406	75.160	126.568	1.00	0.00	H
ATOM	781	HH22	ARG	X	240	50.717	74.711	128.126	1.00	0.00	H
ATOM	782	C	ARG	X	240	51.144	81.263	123.578	1.00	0.00	C
ATOM	783	O	ARG	X	240	50.386	80.900	122.658	1.00	0.00	O
ATOM	784	N	THR	X	241	52.352	81.766	123.417	1.00	0.00	N
ATOM	785	H	THR	X	241	52.835	82.063	124.252	1.00	0.00	H
ATOM	786	CA	THR	X	241	53.147	81.900	122.198	1.00	0.00	C
ATOM	787	HA	THR	X	241	52.543	82.402	121.441	1.00	0.00	H
ATOM	788	CB	THR	X	241	54.458	82.666	122.432	1.00	0.00	C
ATOM	789	HB	THR	X	241	55.102	82.515	121.565	1.00	0.00	H
ATOM	790	CG2	THR	X	241	54.134	84.142	122.658	1.00	0.00	C
ATOM	791	HG21	THR	X	241	53.369	84.249	123.427	1.00	0.00	H
ATOM	792	HG22	THR	X	241	55.017	84.701	122.970	1.00	0.00	H
ATOM	793	HG23	THR	X	241	53.721	84.535	121.728	1.00	0.00	H
ATOM	794	OG1	THR	X	241	55.166	82.137	123.568	1.00	0.00	O
ATOM	795	HG1	THR	X	241	54.765	82.309	124.422	1.00	0.00	H
ATOM	796	C	THR	X	241	53.502	80.567	121.528	1.00	0.00	C
ATOM	797	O	THR	X	241	53.216	80.480	120.330	1.00	0.00	O
ATOM	798	N	GLU	X	242	53.984	79.546	122.282	1.00	0.00	N
ATOM	799	H	GLU	X	242	54.062	79.634	123.285	1.00	0.00	H
ATOM	800	CA	GLU	X	242	54.281	78.095	121.985	1.00	0.00	C
ATOM	801	HA	GLU	X	242	54.819	77.685	122.841	1.00	0.00	H
ATOM	802	CB	GLU	X	242	53.014	77.253	121.749	1.00	0.00	C
ATOM	803	HB2	GLU	X	242	52.471	77.690	120.911	1.00	0.00	H
ATOM	804	HB3	GLU	X	242	53.320	76.266	121.402	1.00	0.00	H
ATOM	805	CG	GLU	X	242	52.029	77.174	122.918	1.00	0.00	C
ATOM	806	HG2	GLU	X	242	51.758	78.183	123.225	1.00	0.00	H
ATOM	807	HG3	GLU	X	242	51.099	76.760	122.527	1.00	0.00	H
ATOM	808	CD	GLU	X	242	52.484	76.494	124.196	1.00	0.00	C
ATOM	809	OE1	GLU	X	242	53.393	76.984	124.911	1.00	0.00	O
ATOM	810	OE2	GLU	X	242	51.877	75.532	124.713	1.00	0.00	O
ATOM	811	C	GLU	X	242	55.238	77.873	120.826	1.00	0.00	C
ATOM	812	O	GLU	X	242	55.706	76.752	120.703	1.00	0.00	O
ATOM	813	N	VAL	X	243	55.541	78.797	119.969	1.00	0.00	N
ATOM	814	H	VAL	X	243	55.242	79.739	120.176	1.00	0.00	H
ATOM	815	CA	VAL	X	243	56.297	78.614	118.687	1.00	0.00	C
ATOM	816	HA	VAL	X	243	55.695	77.912	118.111	1.00	0.00	H
ATOM	817	CB	VAL	X	243	56.362	79.866	117.791	1.00	0.00	C
ATOM	818	HB	VAL	X	243	57.290	79.765	117.227	1.00	0.00	H

ATOM	819	CG1	VAL	X	243	55.259	79.907	116.702	1.00	0.00	C
ATOM	820	HG11	VAL	X	243	54.252	79.803	117.107	1.00	0.00	H
ATOM	821	HG12	VAL	X	243	55.368	80.836	116.142	1.00	0.00	H
ATOM	822	HG13	VAL	X	243	55.554	79.157	115.969	1.00	0.00	H
ATOM	823	CG2	VAL	X	243	56.427	81.107	118.660	1.00	0.00	C
ATOM	824	HG21	VAL	X	243	57.138	81.027	119.483	1.00	0.00	H
ATOM	825	HG22	VAL	X	243	56.585	81.981	118.026	1.00	0.00	H
ATOM	826	HG23	VAL	X	243	55.460	81.244	119.145	1.00	0.00	H
ATOM	827	C	VAL	X	243	57.820	78.257	118.914	1.00	0.00	C
ATOM	828	O	VAL	X	243	58.599	78.983	119.510	1.00	0.00	O
ATOM	829	N	GLY	X	244	58.152	77.128	118.349	1.00	0.00	N
ATOM	830	H	GLY	X	244	57.424	76.593	117.896	1.00	0.00	H
ATOM	831	CA	GLY	X	244	59.535	76.520	118.213	1.00	0.00	C
ATOM	832	HA2	GLY	X	244	59.571	75.665	117.538	1.00	0.00	H
ATOM	833	HA3	GLY	X	244	60.208	77.258	117.777	1.00	0.00	H
ATOM	834	C	GLY	X	244	60.082	76.091	119.587	1.00	0.00	C
ATOM	835	O	GLY	X	244	59.642	75.161	120.228	1.00	0.00	O
ATOM	836	N	MET	X	245	61.184	76.737	119.988	1.00	0.00	N
ATOM	837	H	MET	X	245	61.676	77.285	119.297	1.00	0.00	H
ATOM	838	CA	MET	X	245	61.847	76.506	121.265	1.00	0.00	C
ATOM	839	HA	MET	X	245	62.191	75.496	121.479	1.00	0.00	H
ATOM	840	CB	MET	X	245	63.092	77.436	121.278	1.00	0.00	C
ATOM	841	HB2	MET	X	245	63.764	77.150	120.469	1.00	0.00	H
ATOM	842	HB3	MET	X	245	62.799	78.469	121.097	1.00	0.00	H
ATOM	843	CG	MET	X	245	63.922	77.398	122.554	1.00	0.00	C
ATOM	844	HG2	MET	X	245	63.249	77.636	123.379	1.00	0.00	H
ATOM	845	HG3	MET	X	245	64.275	76.385	122.743	1.00	0.00	H
ATOM	846	SD	MET	X	245	65.383	78.403	122.733	1.00	0.00	S
ATOM	847	CE	MET	X	245	64.730	79.958	123.293	1.00	0.00	C
ATOM	848	HE1	MET	X	245	64.021	80.378	122.580	1.00	0.00	H
ATOM	849	HE2	MET	X	245	64.109	79.844	124.182	1.00	0.00	H
ATOM	850	HE3	MET	X	245	65.518	80.680	123.507	1.00	0.00	H
ATOM	851	C	MET	X	245	60.883	76.747	122.471	1.00	0.00	C
ATOM	852	O	MET	X	245	60.992	76.135	123.530	1.00	0.00	O
ATOM	853	N	ALA	X	246	60.040	77.755	122.343	1.00	0.00	N
ATOM	854	H	ALA	X	246	60.078	78.307	121.498	1.00	0.00	H
ATOM	855	CA	ALA	X	246	59.082	78.174	123.365	1.00	0.00	C
ATOM	856	HA	ALA	X	246	59.512	78.363	124.348	1.00	0.00	H
ATOM	857	CB	ALA	X	246	58.373	79.514	122.968	1.00	0.00	C
ATOM	858	HB1	ALA	X	246	57.975	79.392	121.960	1.00	0.00	H
ATOM	859	HB2	ALA	X	246	57.693	79.912	123.722	1.00	0.00	H
ATOM	860	HB3	ALA	X	246	59.112	80.295	122.796	1.00	0.00	H
ATOM	861	C	ALA	X	246	57.854	77.199	123.675	1.00	0.00	C
ATOM	862	O	ALA	X	246	57.030	77.566	124.517	1.00	0.00	O
ATOM	863	N	GLY	X	247	57.685	76.025	123.082	1.00	0.00	N
ATOM	864	H	GLY	X	247	58.509	75.635	122.650	1.00	0.00	H
ATOM	865	CA	GLY	X	247	56.505	75.165	123.310	1.00	0.00	C
ATOM	866	HA2	GLY	X	247	56.277	74.971	124.357	1.00	0.00	H
ATOM	867	HA3	GLY	X	247	55.571	75.643	123.010	1.00	0.00	H
ATOM	868	C	GLY	X	247	56.495	73.827	122.530	1.00	0.00	C
ATOM	869	O	GLY	X	247	57.516	73.373	122.106	1.00	0.00	O
ATOM	870	N	PRO	X	248	55.297	73.211	122.237	1.00	0.00	N
ATOM	871	CD	PRO	X	248	54.061	73.553	122.898	1.00	0.00	C
ATOM	872	HD2	PRO	X	248	53.817	74.609	122.785	1.00	0.00	H
ATOM	873	HD3	PRO	X	248	54.181	73.349	123.962	1.00	0.00	H
ATOM	874	CG	PRO	X	248	52.946	72.720	122.232	1.00	0.00	C
ATOM	875	HG2	PRO	X	248	52.845	73.152	121.236	1.00	0.00	H
ATOM	876	HG3	PRO	X	248	52.073	72.770	122.881	1.00	0.00	H
ATOM	877	CB	PRO	X	248	53.706	71.408	122.012	1.00	0.00	C
ATOM	878	HB2	PRO	X	248	53.215	70.834	121.225	1.00	0.00	H
ATOM	879	HB3	PRO	X	248	53.844	70.906	122.970	1.00	0.00	H
ATOM	880	CA	PRO	X	248	55.072	71.893	121.517	1.00	0.00	C
ATOM	881	HA	PRO	X	248	55.849	71.189	121.815	1.00	0.00	H
ATOM	882	C	PRO	X	248	55.222	71.959	120.039	1.00	0.00	C
ATOM	883	O	PRO	X	248	55.151	72.980	119.415	1.00	0.00	O
ATOM	884	N	LEU	X	249	55.253	70.839	119.348	1.00	0.00	N
ATOM	885	H	LEU	X	249	55.344	70.019	119.930	1.00	0.00	H
ATOM	886	CA	LEU	X	249	55.572	70.778	117.895	1.00	0.00	C
ATOM	887	HA	LEU	X	249	56.419	71.426	117.672	1.00	0.00	H
ATOM	888	CB	LEU	X	249	56.057	69.314	117.508	1.00	0.00	C
ATOM	889	HB2	LEU	X	249	56.972	69.072	118.048	1.00	0.00	H
ATOM	890	HB3	LEU	X	249	55.238	68.640	117.761	1.00	0.00	H
ATOM	891	CG	LEU	X	249	56.325	69.147	115.990	1.00	0.00	C
ATOM	892	HG	LEU	X	249	55.439	69.252	115.364	1.00	0.00	H
ATOM	893	CD1	LEU	X	249	57.443	70.075	115.477	1.00	0.00	C
ATOM	894	HD11	LEU	X	249	58.293	70.164	116.153	1.00	0.00	H
ATOM	895	HD12	LEU	X	249	57.847	69.735	114.523	1.00	0.00	H
ATOM	896	HD13	LEU	X	249	57.013	71.070	115.348	1.00	0.00	H
ATOM	897	CD2	LEU	X	249	56.734	67.720	115.833	1.00	0.00	C
ATOM	898	HD21	LEU	X	249	56.896	67.440	114.792	1.00	0.00	H
ATOM	899	HD22	LEU	X	249	57.663	67.572	116.383	1.00	0.00	H
ATOM	900	HD23	LEU	X	249	56.070	67.013	116.329	1.00	0.00	H

ATOM	901	C	LEU	X	249	54.454	71.262	117.033	1.00	0.00	C
ATOM	902	O	LEU	X	249	54.591	71.775	115.908	1.00	0.00	O
ATOM	903	N	HID	X	250	53.226	71.191	117.586	1.00	0.00	N
ATOM	904	H	HID	X	250	53.168	70.882	118.546	1.00	0.00	H
ATOM	905	CA	HID	X	250	52.010	71.509	116.997	1.00	0.00	C
ATOM	906	HA	HID	X	250	52.207	71.752	115.954	1.00	0.00	H
ATOM	907	CB	HID	X	250	51.051	70.286	117.028	1.00	0.00	C
ATOM	908	HB2	HID	X	250	51.041	70.062	118.095	1.00	0.00	H
ATOM	909	HB3	HID	X	250	50.054	70.528	116.662	1.00	0.00	H
ATOM	910	CG	HID	X	250	51.785	69.169	116.262	1.00	0.00	C
ATOM	911	ND1	HID	X	250	52.100	69.131	114.963	1.00	0.00	N
ATOM	912	HD1	HID	X	250	51.960	69.897	114.320	1.00	0.00	H
ATOM	913	CE1	HID	X	250	52.631	67.974	114.572	1.00	0.00	C
ATOM	914	HE1	HID	X	250	53.044	67.661	113.624	1.00	0.00	H
ATOM	915	NE2	HID	X	250	52.784	67.237	115.746	1.00	0.00	N
ATOM	916	CD2	HID	X	250	52.261	67.976	116.811	1.00	0.00	C
ATOM	917	HD2	HID	X	250	52.401	67.713	117.849	1.00	0.00	H
ATOM	918	C	HID	X	250	51.245	72.591	117.740	1.00	0.00	C
ATOM	919	O	HID	X	250	51.312	72.690	118.954	1.00	0.00	O
ATOM	920	N	LYS	X	251	50.537	73.445	117.035	1.00	0.00	N
ATOM	921	H	LYS	X	251	50.499	73.167	116.065	1.00	0.00	H
ATOM	922	CA	LYS	X	251	49.549	74.222	117.621	1.00	0.00	C
ATOM	923	HA	LYS	X	251	49.887	74.605	118.583	1.00	0.00	H
ATOM	924	CB	LYS	X	251	49.277	75.436	116.697	1.00	0.00	C
ATOM	925	HB2	LYS	X	251	49.003	75.031	115.724	1.00	0.00	H
ATOM	926	HB3	LYS	X	251	48.384	76.006	116.950	1.00	0.00	H
ATOM	927	CG	LYS	X	251	50.410	76.454	116.489	1.00	0.00	C
ATOM	928	HG2	LYS	X	251	51.394	76.033	116.281	1.00	0.00	H
ATOM	929	HG3	LYS	X	251	50.212	77.041	115.593	1.00	0.00	H
ATOM	930	CD	LYS	X	251	50.427	77.387	117.620	1.00	0.00	C
ATOM	931	HD2	LYS	X	251	49.541	78.002	117.463	1.00	0.00	H
ATOM	932	HD3	LYS	X	251	50.297	76.741	118.490	1.00	0.00	H
ATOM	933	CE	LYS	X	251	51.661	78.248	117.737	1.00	0.00	C
ATOM	934	HE2	LYS	X	251	52.517	77.605	117.939	1.00	0.00	H
ATOM	935	HE3	LYS	X	251	51.720	78.788	116.792	1.00	0.00	H
ATOM	936	NZ	LYS	X	251	51.407	79.277	118.784	1.00	0.00	N
ATOM	937	HZ1	LYS	X	251	50.542	79.714	118.500	1.00	0.00	H
ATOM	938	HZ2	LYS	X	251	51.197	78.897	119.697	1.00	0.00	H
ATOM	939	HZ3	LYS	X	251	52.137	79.972	118.861	1.00	0.00	H
ATOM	940	C	LYS	X	251	48.202	73.473	117.797	1.00	0.00	C
ATOM	941	O	LYS	X	251	47.957	72.486	117.069	1.00	0.00	O
ATOM	942	N	SER	X	252	47.330	73.920	118.720	1.00	0.00	N
ATOM	943	H	SER	X	252	47.644	74.770	119.166	1.00	0.00	H
ATOM	944	CA	SER	X	252	46.066	73.309	118.971	1.00	0.00	C
ATOM	945	HA	SER	X	252	46.071	72.286	118.595	1.00	0.00	H
ATOM	946	CB	SER	X	252	45.882	73.189	120.393	1.00	0.00	C
ATOM	947	HB2	SER	X	252	46.623	72.501	120.801	1.00	0.00	H
ATOM	948	HB3	SER	X	252	46.097	74.100	120.954	1.00	0.00	H
ATOM	949	OG	SER	X	252	44.520	72.830	120.686	1.00	0.00	O
ATOM	950	HG	SER	X	252	44.587	72.187	121.396	1.00	0.00	H
ATOM	951	C	SER	X	252	44.942	74.092	118.266	1.00	0.00	C
ATOM	952	O	SER	X	252	45.036	75.305	118.175	1.00	0.00	O
ATOM	953	N	PRO	X	253	43.845	73.430	117.772	1.00	0.00	N
ATOM	954	CD	PRO	X	253	43.695	71.967	117.445	1.00	0.00	C
ATOM	955	HD2	PRO	X	253	43.481	71.433	118.370	1.00	0.00	H
ATOM	956	HD3	PRO	X	253	44.616	71.627	116.972	1.00	0.00	H
ATOM	957	CG	PRO	X	253	42.485	71.842	116.541	1.00	0.00	C
ATOM	958	HG2	PRO	X	253	41.958	70.899	116.688	1.00	0.00	H
ATOM	959	HG3	PRO	X	253	42.882	71.862	115.525	1.00	0.00	H
ATOM	960	CB	PRO	X	253	41.672	73.027	116.949	1.00	0.00	C
ATOM	961	HB2	PRO	X	253	40.908	72.754	117.677	1.00	0.00	H
ATOM	962	HB3	PRO	X	253	41.077	73.361	116.098	1.00	0.00	H
ATOM	963	CA	PRO	X	253	42.608	74.087	117.504	1.00	0.00	C
ATOM	964	HA	PRO	X	253	42.644	74.777	116.660	1.00	0.00	H
ATOM	965	C	PRO	X	253	41.952	74.882	118.653	1.00	0.00	C
ATOM	966	O	PRO	X	253	41.066	75.646	118.376	1.00	0.00	O
ATOM	967	N	ALA	X	254	42.368	74.682	119.927	1.00	0.00	N
ATOM	968	H	ALA	X	254	43.239	74.184	120.036	1.00	0.00	H
ATOM	969	CA	ALA	X	254	41.837	75.383	121.094	1.00	0.00	C
ATOM	970	HA	ALA	X	254	40.811	75.062	121.270	1.00	0.00	H
ATOM	971	CB	ALA	X	254	42.700	74.984	122.363	1.00	0.00	C
ATOM	972	HB1	ALA	X	254	43.720	75.312	122.167	1.00	0.00	H
ATOM	973	HB2	ALA	X	254	42.309	75.533	123.220	1.00	0.00	H
ATOM	974	HB3	ALA	X	254	42.625	73.901	122.459	1.00	0.00	H
ATOM	975	C	ALA	X	254	41.845	76.930	120.951	1.00	0.00	C
ATOM	976	O	ALA	X	254	42.862	77.574	120.785	1.00	0.00	O
ATOM	977	N	ALA	X	255	40.674	77.615	120.826	1.00	0.00	N
ATOM	978	H	ALA	X	255	39.764	77.215	121.007	1.00	0.00	H
ATOM	979	CA	ALA	X	255	40.606	79.141	120.564	1.00	0.00	C
ATOM	980	HA	ALA	X	255	41.593	79.594	120.678	1.00	0.00	H
ATOM	981	CB	ALA	X	255	40.295	79.591	119.103	1.00	0.00	C
ATOM	982	HB1	ALA	X	255	39.302	79.201	118.879	1.00	0.00	H

ATOM	983	HB2	ALA	X	255	40.218	80.674	119.198	1.00	0.00	H
ATOM	984	HB3	ALA	X	255	40.915	79.218	118.286	1.00	0.00	H
ATOM	985	C	ALA	X	255	39.643	79.708	121.586	1.00	0.00	C
ATOM	986	O	ALA	X	255	38.576	79.132	121.856	1.00	0.00	O
ATOM	987	N	LEU	X	256	39.951	80.863	122.118	1.00	0.00	N
ATOM	988	H	LEU	X	256	40.867	81.254	121.951	1.00	0.00	H
ATOM	989	CA	LEU	X	256	39.257	81.529	123.227	1.00	0.00	C
ATOM	990	HA	LEU	X	256	38.285	81.060	123.380	1.00	0.00	H
ATOM	991	CB	LEU	X	256	40.188	81.377	124.521	1.00	0.00	C
ATOM	992	HB2	LEU	X	256	39.679	81.968	125.284	1.00	0.00	H
ATOM	993	HB3	LEU	X	256	39.967	80.351	124.819	1.00	0.00	H
ATOM	994	CG	LEU	X	256	41.621	81.811	124.361	1.00	0.00	C
ATOM	995	HG	LEU	X	256	41.719	82.255	123.371	1.00	0.00	H
ATOM	996	CD1	LEU	X	256	41.985	82.903	125.448	1.00	0.00	C
ATOM	997	HD11	LEU	X	256	41.863	82.484	126.447	1.00	0.00	H
ATOM	998	HD12	LEU	X	256	42.985	83.248	125.186	1.00	0.00	H
ATOM	999	HD13	LEU	X	256	41.417	83.819	125.290	1.00	0.00	H
ATOM	1000	CD2	LEU	X	256	42.491	80.557	124.551	1.00	0.00	C
ATOM	1001	HD21	LEU	X	256	42.438	80.139	125.557	1.00	0.00	H
ATOM	1002	HD22	LEU	X	256	42.186	79.779	123.851	1.00	0.00	H
ATOM	1003	HD23	LEU	X	256	43.512	80.720	124.208	1.00	0.00	H
ATOM	1004	C	LEU	X	256	39.054	83.005	122.966	1.00	0.00	C
ATOM	1005	O	LEU	X	256	39.374	83.546	121.910	1.00	0.00	O
ATOM	1006	N	GLY	X	257	38.417	83.747	123.858	1.00	0.00	N
ATOM	1007	H	GLY	X	257	38.254	83.400	124.792	1.00	0.00	H
ATOM	1008	CA	GLY	X	257	37.969	85.097	123.592	1.00	0.00	C
ATOM	1009	HA2	GLY	X	257	38.686	85.601	122.944	1.00	0.00	H
ATOM	1010	HA3	GLY	X	257	36.993	85.040	123.111	1.00	0.00	H
ATOM	1011	C	GLY	X	257	37.944	85.987	124.873	1.00	0.00	C
ATOM	1012	O	GLY	X	257	38.622	85.723	125.840	1.00	0.00	O
ATOM	1013	N	LEU	X	258	37.153	87.110	124.822	1.00	0.00	N
ATOM	1014	H	LEU	X	258	36.611	87.301	123.990	1.00	0.00	H
ATOM	1015	CA	LEU	X	258	37.216	88.092	125.946	1.00	0.00	C
ATOM	1016	HA	LEU	X	258	38.239	88.421	126.134	1.00	0.00	H
ATOM	1017	CB	LEU	X	258	36.313	89.311	125.494	1.00	0.00	C
ATOM	1018	HB2	LEU	X	258	35.358	89.023	125.056	1.00	0.00	H
ATOM	1019	HB3	LEU	X	258	35.940	89.888	126.341	1.00	0.00	H
ATOM	1020	CG	LEU	X	258	37.048	90.255	124.571	1.00	0.00	C
ATOM	1021	HG	LEU	X	258	37.445	89.783	123.673	1.00	0.00	H
ATOM	1022	CD1	LEU	X	258	36.146	91.386	123.967	1.00	0.00	C
ATOM	1023	HD11	LEU	X	258	35.327	90.881	123.456	1.00	0.00	H
ATOM	1024	HD12	LEU	X	258	35.617	91.842	124.804	1.00	0.00	H
ATOM	1025	HD13	LEU	X	258	36.667	92.127	123.361	1.00	0.00	H
ATOM	1026	CD2	LEU	X	258	38.137	90.998	125.351	1.00	0.00	C
ATOM	1027	HD21	LEU	X	258	38.439	91.929	124.870	1.00	0.00	H
ATOM	1028	HD22	LEU	X	258	37.990	91.049	126.430	1.00	0.00	H
ATOM	1029	HD23	LEU	X	258	39.044	90.395	125.315	1.00	0.00	H
ATOM	1030	C	LEU	X	258	36.729	87.422	127.239	1.00	0.00	C
ATOM	1031	O	LEU	X	258	37.278	87.746	128.294	1.00	0.00	O
ATOM	1032	N	GLU	X	259	35.843	86.448	127.204	1.00	0.00	N
ATOM	1033	H	GLU	X	259	35.314	86.308	126.356	1.00	0.00	H
ATOM	1034	CA	GLU	X	259	35.427	85.724	128.375	1.00	0.00	C
ATOM	1035	HA	GLU	X	259	35.292	86.473	129.155	1.00	0.00	H
ATOM	1036	CB	GLU	X	259	34.123	84.953	128.237	1.00	0.00	C
ATOM	1037	HB2	GLU	X	259	33.843	84.435	129.153	1.00	0.00	H
ATOM	1038	HB3	GLU	X	259	33.352	85.677	127.972	1.00	0.00	H
ATOM	1039	CG	GLU	X	259	33.930	83.965	127.130	1.00	0.00	C
ATOM	1040	HG2	GLU	X	259	34.424	83.035	127.418	1.00	0.00	H
ATOM	1041	HG3	GLU	X	259	32.868	83.758	126.990	1.00	0.00	H
ATOM	1042	CD	GLU	X	259	34.457	84.385	125.785	1.00	0.00	C
ATOM	1043	OE1	GLU	X	259	33.844	85.403	125.328	1.00	0.00	O
ATOM	1044	OE2	GLU	X	259	35.330	83.665	125.292	1.00	0.00	O
ATOM	1045	C	GLU	X	259	36.532	84.825	129.046	1.00	0.00	C
ATOM	1046	O	GLU	X	259	36.489	84.489	130.215	1.00	0.00	O
ATOM	1047	N	GLU	X	260	37.732	84.674	128.384	1.00	0.00	N
ATOM	1048	H	GLU	X	260	37.809	84.949	127.414	1.00	0.00	H
ATOM	1049	CA	GLU	X	260	38.871	84.058	129.059	1.00	0.00	C
ATOM	1050	HA	GLU	X	260	38.577	83.503	129.950	1.00	0.00	H
ATOM	1051	CB	GLU	X	260	39.427	83.034	128.010	1.00	0.00	C
ATOM	1052	HB2	GLU	X	260	39.501	83.424	126.994	1.00	0.00	H
ATOM	1053	HB3	GLU	X	260	40.347	82.574	128.369	1.00	0.00	H
ATOM	1054	CG	GLU	X	260	38.548	81.818	128.007	1.00	0.00	C
ATOM	1055	HG2	GLU	X	260	37.510	82.095	128.198	1.00	0.00	H
ATOM	1056	HG3	GLU	X	260	38.412	81.416	127.003	1.00	0.00	H
ATOM	1057	CD	GLU	X	260	38.870	80.674	128.927	1.00	0.00	C
ATOM	1058	OE1	GLU	X	260	38.907	79.501	128.540	1.00	0.00	O
ATOM	1059	OE2	GLU	X	260	39.188	80.874	130.136	1.00	0.00	O
ATOM	1060	C	GLU	X	260	39.878	85.102	129.568	1.00	0.00	C
ATOM	1061	O	GLU	X	260	40.607	84.861	130.538	1.00	0.00	O
ATOM	1062	N	LEU	X	261	39.935	86.239	128.966	1.00	0.00	N
ATOM	1063	H	LEU	X	261	39.146	86.461	128.375	1.00	0.00	H
ATOM	1064	CA	LEU	X	261	41.211	86.998	128.868	1.00	0.00	C

ATOM	1065	HA	LEU	X	261	41.866	86.261	128.403	1.00	0.00	H
ATOM	1066	CB	LEU	X	261	41.015	88.184	127.893	1.00	0.00	C
ATOM	1067	HB2	LEU	X	261	40.239	87.912	127.176	1.00	0.00	H
ATOM	1068	HB3	LEU	X	261	40.784	89.110	128.420	1.00	0.00	H
ATOM	1069	CG	LEU	X	261	42.278	88.447	126.959	1.00	0.00	C
ATOM	1070	HG	LEU	X	261	42.527	87.624	126.289	1.00	0.00	H
ATOM	1071	CD1	LEU	X	261	42.036	89.584	125.995	1.00	0.00	C
ATOM	1072	HD11	LEU	X	261	42.987	89.860	125.539	1.00	0.00	H
ATOM	1073	HD12	LEU	X	261	41.370	89.274	125.189	1.00	0.00	H
ATOM	1074	HD13	LEU	X	261	41.677	90.492	126.479	1.00	0.00	H
ATOM	1075	CD2	LEU	X	261	43.537	88.754	127.797	1.00	0.00	C
ATOM	1076	HD21	LEU	X	261	43.441	89.607	128.468	1.00	0.00	H
ATOM	1077	HD22	LEU	X	261	43.761	87.918	128.459	1.00	0.00	H
ATOM	1078	HD23	LEU	X	261	44.452	88.899	127.221	1.00	0.00	H
ATOM	1079	C	LEU	X	261	41.810	87.377	130.182	1.00	0.00	C
ATOM	1080	O	LEU	X	261	42.902	87.048	130.646	1.00	0.00	O
ATOM	1081	N	PHE	X	262	40.942	87.890	131.055	1.00	0.00	N
ATOM	1082	H	PHE	X	262	39.952	87.917	130.860	1.00	0.00	H
ATOM	1083	CA	PHE	X	262	41.182	88.380	132.396	1.00	0.00	C
ATOM	1084	HA	PHE	X	262	42.257	88.556	132.438	1.00	0.00	H
ATOM	1085	CB	PHE	X	262	40.553	89.765	132.487	1.00	0.00	C
ATOM	1086	HB2	PHE	X	262	39.468	89.748	132.386	1.00	0.00	H
ATOM	1087	HB3	PHE	X	262	40.723	90.276	133.435	1.00	0.00	H
ATOM	1088	CG	PHE	X	262	41.112	90.641	131.317	1.00	0.00	C
ATOM	1089	CD1	PHE	X	262	42.472	90.854	131.007	1.00	0.00	C
ATOM	1090	HD1	PHE	X	262	43.137	90.360	131.697	1.00	0.00	H
ATOM	1091	CE1	PHE	X	262	42.891	91.563	129.927	1.00	0.00	C
ATOM	1092	HE1	PHE	X	262	43.949	91.593	129.722	1.00	0.00	H
ATOM	1093	CZ	PHE	X	262	41.883	92.071	129.048	1.00	0.00	C
ATOM	1094	HZ	PHE	X	262	42.138	92.597	128.140	1.00	0.00	H
ATOM	1095	CE2	PHE	X	262	40.563	91.951	129.397	1.00	0.00	C
ATOM	1096	HE2	PHE	X	262	39.828	92.541	128.868	1.00	0.00	H
ATOM	1097	CD2	PHE	X	262	40.120	91.160	130.443	1.00	0.00	C
ATOM	1098	HD2	PHE	X	262	39.088	90.971	130.702	1.00	0.00	H
ATOM	1099	C	PHE	X	262	40.761	87.458	133.542	1.00	0.00	C
ATOM	1100	O	PHE	X	262	40.946	87.962	134.658	1.00	0.00	O
ATOM	1101	N	SER	X	263	40.207	86.268	133.273	1.00	0.00	N
ATOM	1102	H	SER	X	263	40.104	86.150	132.276	1.00	0.00	H
ATOM	1103	CA	SER	X	263	39.870	85.237	134.232	1.00	0.00	C
ATOM	1104	HA	SER	X	263	39.181	85.779	134.881	1.00	0.00	H
ATOM	1105	CB	SER	X	263	39.131	84.087	133.577	1.00	0.00	C
ATOM	1106	HB2	SER	X	263	38.251	84.457	133.053	1.00	0.00	H
ATOM	1107	HB3	SER	X	263	39.833	83.659	132.861	1.00	0.00	H
ATOM	1108	OG	SER	X	263	38.774	83.081	134.452	1.00	0.00	O
ATOM	1109	HG	SER	X	263	38.409	82.368	133.925	1.00	0.00	H
ATOM	1110	C	SER	X	263	41.109	84.815	135.014	1.00	0.00	C
ATOM	1111	O	SER	X	263	42.204	84.929	134.450	1.00	0.00	O
ATOM	1112	N	PRO	X	264	40.995	84.426	136.329	1.00	0.00	N
ATOM	1113	CD	PRO	X	264	39.812	84.490	137.147	1.00	0.00	C
ATOM	1114	HD2	PRO	X	264	39.101	83.746	136.788	1.00	0.00	H
ATOM	1115	HD3	PRO	X	264	39.335	85.463	137.034	1.00	0.00	H
ATOM	1116	CG	PRO	X	264	40.240	84.140	138.559	1.00	0.00	C
ATOM	1117	HG2	PRO	X	264	39.418	83.702	139.124	1.00	0.00	H
ATOM	1118	HG3	PRO	X	264	40.670	85.061	138.956	1.00	0.00	H
ATOM	1119	CB	PRO	X	264	41.480	83.267	138.476	1.00	0.00	C
ATOM	1120	HB2	PRO	X	264	41.133	82.251	138.291	1.00	0.00	H
ATOM	1121	HB3	PRO	X	264	42.210	83.308	139.284	1.00	0.00	H
ATOM	1122	CA	PRO	X	264	42.101	83.823	137.117	1.00	0.00	C
ATOM	1123	HA	PRO	X	264	42.852	84.587	137.312	1.00	0.00	H
ATOM	1124	C	PRO	X	264	42.627	82.581	136.420	1.00	0.00	C
ATOM	1125	O	PRO	X	264	42.041	81.820	135.660	1.00	0.00	O
ATOM	1126	N	ASN	X	265	43.964	82.405	136.624	1.00	0.00	N
ATOM	1127	H	ASN	X	265	44.511	83.131	137.063	1.00	0.00	H
ATOM	1128	CA	ASN	X	265	44.732	81.233	136.189	1.00	0.00	C
ATOM	1129	HA	ASN	X	265	44.082	80.621	135.564	1.00	0.00	H
ATOM	1130	CB	ASN	X	265	46.023	81.596	135.409	1.00	0.00	C
ATOM	1131	HB2	ASN	X	265	45.736	82.433	134.773	1.00	0.00	H
ATOM	1132	HB3	ASN	X	265	46.890	81.913	135.990	1.00	0.00	H
ATOM	1133	CG	ASN	X	265	46.432	80.535	134.399	1.00	0.00	C
ATOM	1134	OD1	ASN	X	265	46.021	79.381	134.356	1.00	0.00	O
ATOM	1135	ND2	ASN	X	265	47.227	80.874	133.421	1.00	0.00	N
ATOM	1136	HD21	ASN	X	265	47.374	80.361	132.563	1.00	0.00	H
ATOM	1137	HD22	ASN	X	265	47.553	81.823	133.319	1.00	0.00	H
ATOM	1138	C	ASN	X	265	44.932	80.209	137.389	1.00	0.00	C
ATOM	1139	O	ASN	X	265	45.321	80.597	138.511	1.00	0.00	O
ATOM	1140	N	GLY	X	266	44.595	78.926	137.076	1.00	0.00	N
ATOM	1141	H	GLY	X	266	44.306	78.757	136.123	1.00	0.00	H
ATOM	1142	CA	GLY	X	266	44.714	77.816	137.984	1.00	0.00	C
ATOM	1143	HA2	GLY	X	266	44.139	78.181	138.835	1.00	0.00	H
ATOM	1144	HA3	GLY	X	266	44.320	76.902	137.540	1.00	0.00	H
ATOM	1145	C	GLY	X	266	46.189	77.423	138.408	1.00	0.00	C
ATOM	1146	O	GLY	X	266	47.131	77.624	137.696	1.00	0.00	O

ATOM	1147	N	HIP	X	267	46.230	76.758	139.576	1.00	0.00	N
ATOM	1148	H	HIP	X	267	45.335	76.714	140.041	1.00	0.00	H
ATOM	1149	CA	HIP	X	267	47.392	76.173	140.282	1.00	0.00	C
ATOM	1150	HA	HIP	X	267	47.302	76.266	141.364	1.00	0.00	H
ATOM	1151	CB	HIP	X	267	47.625	74.636	139.931	1.00	0.00	C
ATOM	1152	HB2	HIP	X	267	47.899	74.412	138.899	1.00	0.00	H
ATOM	1153	HB3	HIP	X	267	48.480	74.250	140.486	1.00	0.00	H
ATOM	1154	CG	HIP	X	267	46.443	73.820	140.354	1.00	0.00	C
ATOM	1155	ND1	HIP	X	267	46.125	73.539	141.646	1.00	0.00	N
ATOM	1156	HD1	HIP	X	267	46.597	73.932	142.449	1.00	0.00	H
ATOM	1157	CE1	HIP	X	267	44.939	72.856	141.687	1.00	0.00	C
ATOM	1158	HE1	HIP	X	267	44.533	72.475	142.611	1.00	0.00	H
ATOM	1159	NE2	HIP	X	267	44.555	72.727	140.396	1.00	0.00	N
ATOM	1160	HE2	HIP	X	267	43.782	72.171	140.060	1.00	0.00	H
ATOM	1161	CD2	HIP	X	267	45.482	73.286	139.515	1.00	0.00	C
ATOM	1162	HD2	HIP	X	267	45.445	73.370	138.438	1.00	0.00	H
ATOM	1163	C	HIP	X	267	48.676	76.994	140.155	1.00	0.00	C
ATOM	1164	O	HIP	X	267	49.754	76.467	139.994	1.00	0.00	O
ATOM	1165	N	LEU	X	268	48.579	78.341	140.390	1.00	0.00	N
ATOM	1166	H	LEU	X	268	47.678	78.745	140.605	1.00	0.00	H
ATOM	1167	CA	LEU	X	268	49.753	79.145	140.524	1.00	0.00	C
ATOM	1168	HA	LEU	X	268	50.606	78.764	139.963	1.00	0.00	H
ATOM	1169	CB	LEU	X	268	49.590	80.583	140.032	1.00	0.00	C
ATOM	1170	HB2	LEU	X	268	49.015	81.067	140.822	1.00	0.00	H
ATOM	1171	HB3	LEU	X	268	50.553	81.094	140.025	1.00	0.00	H
ATOM	1172	CG	LEU	X	268	48.902	80.841	138.714	1.00	0.00	C
ATOM	1173	HG	LEU	X	268	47.865	80.522	138.818	1.00	0.00	H
ATOM	1174	CD1	LEU	X	268	49.117	82.297	138.290	1.00	0.00	C
ATOM	1175	HD11	LEU	X	268	50.165	82.596	138.324	1.00	0.00	H
ATOM	1176	HD12	LEU	X	268	48.803	82.504	137.266	1.00	0.00	H
ATOM	1177	HD13	LEU	X	268	48.574	82.962	138.961	1.00	0.00	H
ATOM	1178	CD2	LEU	X	268	49.688	79.991	137.697	1.00	0.00	C
ATOM	1179	HD21	LEU	X	268	49.647	78.950	138.021	1.00	0.00	H
ATOM	1180	HD22	LEU	X	268	49.222	80.120	136.721	1.00	0.00	H
ATOM	1181	HD23	LEU	X	268	50.730	80.313	137.696	1.00	0.00	H
ATOM	1182	C	LEU	X	268	50.382	79.059	141.936	1.00	0.00	C
ATOM	1183	O	LEU	X	268	49.596	79.051	142.899	1.00	0.00	O
ATOM	1184	N	ASN	X	269	51.669	78.955	142.168	1.00	0.00	N
ATOM	1185	H	ASN	X	269	52.301	78.946	141.380	1.00	0.00	H
ATOM	1186	CA	ASN	X	269	52.258	79.225	143.490	1.00	0.00	C
ATOM	1187	HA	ASN	X	269	51.549	79.034	144.298	1.00	0.00	H
ATOM	1188	CB	ASN	X	269	53.458	78.283	143.674	1.00	0.00	C
ATOM	1189	HB2	ASN	X	269	54.241	78.551	142.963	1.00	0.00	H
ATOM	1190	HB3	ASN	X	269	53.907	78.442	144.655	1.00	0.00	H
ATOM	1191	CG	ASN	X	269	53.206	76.789	143.445	1.00	0.00	C
ATOM	1192	OD1	ASN	X	269	52.377	76.217	144.134	1.00	0.00	O
ATOM	1193	ND2	ASN	X	269	53.934	76.175	142.577	1.00	0.00	N
ATOM	1194	HD21	ASN	X	269	53.954	75.189	142.357	1.00	0.00	H
ATOM	1195	HD22	ASN	X	269	54.472	76.767	141.959	1.00	0.00	H
ATOM	1196	C	ASN	X	269	52.639	80.659	143.699	1.00	0.00	C
ATOM	1197	O	ASN	X	269	52.574	81.131	144.798	1.00	0.00	O
ATOM	1198	N	GLU	X	270	53.198	81.265	142.609	1.00	0.00	N
ATOM	1199	H	GLU	X	270	53.080	80.705	141.777	1.00	0.00	H
ATOM	1200	CA	GLU	X	270	53.726	82.641	142.678	1.00	0.00	C
ATOM	1201	HA	GLU	X	270	54.356	82.591	143.567	1.00	0.00	H
ATOM	1202	CB	GLU	X	270	54.555	82.641	141.383	1.00	0.00	C
ATOM	1203	HB2	GLU	X	270	55.268	81.820	141.464	1.00	0.00	H
ATOM	1204	HB3	GLU	X	270	53.862	82.527	140.548	1.00	0.00	H
ATOM	1205	CG	GLU	X	270	55.332	83.972	141.205	1.00	0.00	C
ATOM	1206	HG2	GLU	X	270	55.930	83.790	140.314	1.00	0.00	H
ATOM	1207	HG3	GLU	X	270	54.657	84.812	141.045	1.00	0.00	H
ATOM	1208	CD	GLU	X	270	56.307	84.313	142.331	1.00	0.00	C
ATOM	1209	OE1	GLU	X	270	55.996	85.348	142.973	1.00	0.00	O
ATOM	1210	OE2	GLU	X	270	57.346	83.646	142.505	1.00	0.00	O
ATOM	1211	C	GLU	X	270	52.596	83.675	142.851	1.00	0.00	C
ATOM	1212	O	GLU	X	270	51.429	83.287	142.730	1.00	0.00	O
ATOM	1213	N	ASP	X	271	53.032	84.896	143.235	1.00	0.00	N
ATOM	1214	H	ASP	X	271	54.023	85.074	143.327	1.00	0.00	H
ATOM	1215	CA	ASP	X	271	52.060	85.952	143.514	1.00	0.00	C
ATOM	1216	HA	ASP	X	271	51.145	85.513	143.909	1.00	0.00	H
ATOM	1217	CB	ASP	X	271	52.543	86.881	144.633	1.00	0.00	C
ATOM	1218	HB2	ASP	X	271	53.492	87.321	144.327	1.00	0.00	H
ATOM	1219	HB3	ASP	X	271	51.867	87.730	144.721	1.00	0.00	H
ATOM	1220	CG	ASP	X	271	52.672	86.272	145.991	1.00	0.00	C
ATOM	1221	OD1	ASP	X	271	52.073	85.229	146.314	1.00	0.00	O
ATOM	1222	OD2	ASP	X	271	53.362	86.890	146.810	1.00	0.00	O
ATOM	1223	C	ASP	X	271	51.674	86.694	142.208	1.00	0.00	C
ATOM	1224	O	ASP	X	271	51.532	87.863	142.175	1.00	0.00	O
ATOM	1225	N	ALA	X	272	51.743	86.028	141.090	1.00	0.00	N
ATOM	1226	H	ALA	X	272	52.127	85.097	141.158	1.00	0.00	H
ATOM	1227	CA	ALA	X	272	51.503	86.635	139.794	1.00	0.00	C
ATOM	1228	HA	ALA	X	272	52.061	87.567	139.705	1.00	0.00	H

ATOM	1229	CB	ALA	X	272	51.979	85.771	138.666	1.00	0.00	C
ATOM	1230	HB1	ALA	X	272	51.238	84.985	138.520	1.00	0.00	H
ATOM	1231	HB2	ALA	X	272	52.235	86.329	137.765	1.00	0.00	H
ATOM	1232	HB3	ALA	X	272	52.896	85.267	138.969	1.00	0.00	H
ATOM	1233	C	ALA	X	272	50.025	87.153	139.581	1.00	0.00	C
ATOM	1234	O	ALA	X	272	49.062	86.424	139.823	1.00	0.00	O
ATOM	1235	N	ASP	X	273	49.798	88.306	138.920	1.00	0.00	N
ATOM	1236	H	ASP	X	273	50.560	88.749	138.424	1.00	0.00	H
ATOM	1237	CA	ASP	X	273	48.451	88.805	138.686	1.00	0.00	C
ATOM	1238	HA	ASP	X	273	47.785	87.945	138.608	1.00	0.00	H
ATOM	1239	CB	ASP	X	273	47.933	89.569	139.907	1.00	0.00	C
ATOM	1240	HB2	ASP	X	273	46.851	89.526	139.789	1.00	0.00	H
ATOM	1241	HB3	ASP	X	273	48.157	88.973	140.792	1.00	0.00	H
ATOM	1242	CG	ASP	X	273	48.581	90.989	140.047	1.00	0.00	C
ATOM	1243	OD1	ASP	X	273	47.912	91.927	140.552	1.00	0.00	O
ATOM	1244	OD2	ASP	X	273	49.727	91.108	139.630	1.00	0.00	O
ATOM	1245	C	ASP	X	273	48.246	89.543	137.346	1.00	0.00	C
ATOM	1246	O	ASP	X	273	47.082	89.892	137.083	1.00	0.00	O
ATOM	1247	N	THR	X	274	49.260	89.847	136.560	1.00	0.00	N
ATOM	1248	H	THR	X	274	50.139	89.399	136.780	1.00	0.00	H
ATOM	1249	CA	THR	X	274	49.172	90.587	135.206	1.00	0.00	C
ATOM	1250	HA	THR	X	274	48.315	91.263	135.221	1.00	0.00	H
ATOM	1251	CB	THR	X	274	50.459	91.473	134.902	1.00	0.00	C
ATOM	1252	HB	THR	X	274	51.391	90.945	135.101	1.00	0.00	H
ATOM	1253	CG2	THR	X	274	50.560	92.039	133.466	1.00	0.00	C
ATOM	1254	HG21	THR	X	274	51.365	92.773	133.437	1.00	0.00	H
ATOM	1255	HG22	THR	X	274	50.693	91.226	132.750	1.00	0.00	H
ATOM	1256	HG23	THR	X	274	49.611	92.553	133.318	1.00	0.00	H
ATOM	1257	OG1	THR	X	274	50.464	92.657	135.652	1.00	0.00	O
ATOM	1258	HG1	THR	X	274	50.953	92.531	136.468	1.00	0.00	H
ATOM	1259	C	THR	X	274	48.907	89.748	133.988	1.00	0.00	C
ATOM	1260	O	THR	X	274	49.353	88.582	133.984	1.00	0.00	O
ATOM	1261	N	VAL	X	275	48.023	90.169	133.037	1.00	0.00	N
ATOM	1262	H	VAL	X	275	47.562	91.063	133.132	1.00	0.00	H
ATOM	1263	CA	VAL	X	275	47.726	89.478	131.780	1.00	0.00	C
ATOM	1264	HA	VAL	X	275	47.985	88.451	132.039	1.00	0.00	H
ATOM	1265	CB	VAL	X	275	46.212	89.556	131.533	1.00	0.00	C
ATOM	1266	HB	VAL	X	275	45.843	90.565	131.348	1.00	0.00	H
ATOM	1267	CG1	VAL	X	275	45.861	88.844	130.242	1.00	0.00	C
ATOM	1268	HG11	VAL	X	275	44.779	88.933	130.141	1.00	0.00	H
ATOM	1269	HG12	VAL	X	275	46.291	89.474	129.463	1.00	0.00	H
ATOM	1270	HG13	VAL	X	275	46.251	87.833	130.122	1.00	0.00	H
ATOM	1271	CG2	VAL	X	275	45.475	88.828	132.696	1.00	0.00	C
ATOM	1272	HG21	VAL	X	275	45.977	87.873	132.853	1.00	0.00	H
ATOM	1273	HG22	VAL	X	275	45.605	89.327	133.656	1.00	0.00	H
ATOM	1274	HG23	VAL	X	275	44.427	88.728	132.410	1.00	0.00	H
ATOM	1275	C	VAL	X	275	48.636	90.018	130.654	1.00	0.00	C
ATOM	1276	O	VAL	X	275	48.802	91.260	130.520	1.00	0.00	O
ATOM	1277	N	LEU	X	276	49.232	89.049	129.849	1.00	0.00	N
ATOM	1278	H	LEU	X	276	49.281	88.111	130.220	1.00	0.00	H
ATOM	1279	CA	LEU	X	276	50.082	89.326	128.701	1.00	0.00	C
ATOM	1280	HA	LEU	X	276	50.325	90.387	128.640	1.00	0.00	H
ATOM	1281	CB	LEU	X	276	51.461	88.710	128.899	1.00	0.00	C
ATOM	1282	HB2	LEU	X	276	51.919	89.052	129.828	1.00	0.00	H
ATOM	1283	HB3	LEU	X	276	51.210	87.661	129.058	1.00	0.00	H
ATOM	1284	CG	LEU	X	276	52.345	88.844	127.631	1.00	0.00	C
ATOM	1285	HG	LEU	X	276	51.823	88.518	126.731	1.00	0.00	H
ATOM	1286	CD1	LEU	X	276	52.684	90.316	127.491	1.00	0.00	C
ATOM	1287	HD11	LEU	X	276	53.402	90.379	126.673	1.00	0.00	H
ATOM	1288	HD12	LEU	X	276	51.895	90.966	127.118	1.00	0.00	H
ATOM	1289	HD13	LEU	X	276	52.965	90.768	128.443	1.00	0.00	H
ATOM	1290	CD2	LEU	X	276	53.633	88.129	127.770	1.00	0.00	C
ATOM	1291	HD21	LEU	X	276	54.135	88.531	128.651	1.00	0.00	H
ATOM	1292	HD22	LEU	X	276	53.381	87.075	127.887	1.00	0.00	H
ATOM	1293	HD23	LEU	X	276	54.250	88.293	126.888	1.00	0.00	H
ATOM	1294	C	LEU	X	276	49.370	88.944	127.368	1.00	0.00	C
ATOM	1295	O	LEU	X	276	49.002	87.797	127.151	1.00	0.00	O
ATOM	1296	N	VAL	X	277	49.132	89.930	126.513	1.00	0.00	N
ATOM	1297	H	VAL	X	277	49.306	90.886	126.787	1.00	0.00	H
ATOM	1298	CA	VAL	X	277	48.756	89.661	125.110	1.00	0.00	C
ATOM	1299	HA	VAL	X	277	48.448	88.623	124.987	1.00	0.00	H
ATOM	1300	CB	VAL	X	277	47.483	90.384	124.741	1.00	0.00	C
ATOM	1301	HB	VAL	X	277	47.761	91.399	125.022	1.00	0.00	H
ATOM	1302	CG1	VAL	X	277	47.154	90.397	123.246	1.00	0.00	C
ATOM	1303	HG11	VAL	X	277	46.407	91.178	123.110	1.00	0.00	H
ATOM	1304	HG12	VAL	X	277	47.989	90.697	122.612	1.00	0.00	H
ATOM	1305	HG13	VAL	X	277	46.895	89.387	122.930	1.00	0.00	H
ATOM	1306	CG2	VAL	X	277	46.270	89.928	125.567	1.00	0.00	C
ATOM	1307	HG21	VAL	X	277	46.527	90.071	126.617	1.00	0.00	H
ATOM	1308	HG22	VAL	X	277	45.402	90.551	125.353	1.00	0.00	H
ATOM	1309	HG23	VAL	X	277	45.987	88.903	125.328	1.00	0.00	H
ATOM	1310	C	VAL	X	277	49.992	89.922	124.137	1.00	0.00	C

ATOM	1311	O	VAL	X	277	50.557	91.038	124.155	1.00	0.00	O
ATOM	1312	N	VAL	X	278	50.408	88.938	123.356	1.00	0.00	N
ATOM	1313	H	VAL	X	278	49.805	88.129	123.403	1.00	0.00	H
ATOM	1314	CA	VAL	X	278	51.559	88.885	122.430	1.00	0.00	C
ATOM	1315	HA	VAL	X	278	52.123	89.773	122.719	1.00	0.00	H
ATOM	1316	CB	VAL	X	278	52.498	87.718	122.639	1.00	0.00	C
ATOM	1317	HB	VAL	X	278	52.051	86.859	122.135	1.00	0.00	H
ATOM	1318	CG1	VAL	X	278	53.866	87.878	121.989	1.00	0.00	C
ATOM	1319	HG11	VAL	X	278	54.422	86.952	122.136	1.00	0.00	H
ATOM	1320	HG12	VAL	X	278	53.918	88.086	120.922	1.00	0.00	H
ATOM	1321	HG13	VAL	X	278	54.459	88.693	122.403	1.00	0.00	H
ATOM	1322	CG2	VAL	X	278	52.666	87.301	124.106	1.00	0.00	C
ATOM	1323	HG21	VAL	X	278	53.181	88.106	124.628	1.00	0.00	H
ATOM	1324	HG22	VAL	X	278	51.717	86.948	124.507	1.00	0.00	H
ATOM	1325	HG23	VAL	X	278	53.326	86.433	124.080	1.00	0.00	H
ATOM	1326	C	VAL	X	278	51.097	88.918	120.954	1.00	0.00	C
ATOM	1327	O	VAL	X	278	50.099	88.259	120.495	1.00	0.00	O
ATOM	1328	N	GLY	X	279	51.815	89.650	120.096	1.00	0.00	N
ATOM	1329	H	GLY	X	279	52.536	90.206	120.530	1.00	0.00	H
ATOM	1330	CA	GLY	X	279	51.527	89.811	118.626	1.00	0.00	C
ATOM	1331	HA2	GLY	X	279	51.359	88.809	118.229	1.00	0.00	H
ATOM	1332	HA3	GLY	X	279	50.594	90.346	118.452	1.00	0.00	H
ATOM	1333	C	GLY	X	279	52.613	90.573	117.958	1.00	0.00	C
ATOM	1334	O	GLY	X	279	53.295	91.464	118.575	1.00	0.00	O
ATOM	1335	N	GLU	X	280	52.577	90.427	116.638	1.00	0.00	N
ATOM	1336	H	GLU	X	280	51.859	89.796	116.314	1.00	0.00	H
ATOM	1337	CA	GLU	X	280	53.196	91.324	115.651	1.00	0.00	C
ATOM	1338	HA	GLU	X	280	54.240	91.494	115.916	1.00	0.00	H
ATOM	1339	CB	GLU	X	280	53.325	90.527	114.331	1.00	0.00	C
ATOM	1340	HB2	GLU	X	280	54.126	89.791	114.259	1.00	0.00	H
ATOM	1341	HB3	GLU	X	280	52.441	89.908	114.179	1.00	0.00	H
ATOM	1342	CG	GLU	X	280	53.688	91.493	113.146	1.00	0.00	C
ATOM	1343	HG2	GLU	X	280	53.527	91.023	112.175	1.00	0.00	H
ATOM	1344	HG3	GLU	X	280	53.005	92.341	113.166	1.00	0.00	H
ATOM	1345	CD	GLU	X	280	55.167	91.928	113.250	1.00	0.00	C
ATOM	1346	OE1	GLU	X	280	55.798	91.909	114.332	1.00	0.00	O
ATOM	1347	OE2	GLU	X	280	55.646	92.615	112.310	1.00	0.00	O
ATOM	1348	C	GLU	X	280	52.541	92.706	115.644	1.00	0.00	C
ATOM	1349	O	GLU	X	280	51.348	92.844	116.048	1.00	0.00	O
ATOM	1350	N	ALA	X	281	53.267	93.781	115.317	1.00	0.00	N
ATOM	1351	H	ALA	X	281	54.219	93.626	115.015	1.00	0.00	H
ATOM	1352	CA	ALA	X	281	52.642	95.104	115.243	1.00	0.00	C
ATOM	1353	HA	ALA	X	281	52.046	95.368	116.115	1.00	0.00	H
ATOM	1354	CB	ALA	X	281	53.736	96.120	115.216	1.00	0.00	C
ATOM	1355	HB1	ALA	X	281	54.274	96.040	116.162	1.00	0.00	H
ATOM	1356	HB2	ALA	X	281	54.450	95.879	114.429	1.00	0.00	H
ATOM	1357	HB3	ALA	X	281	53.303	97.115	115.121	1.00	0.00	H
ATOM	1358	C	ALA	X	281	51.737	95.182	114.044	1.00	0.00	C
ATOM	1359	O	ALA	X	281	52.264	95.255	112.909	1.00	0.00	O
ATOM	1360	N	GLY	X	282	50.390	95.208	114.218	1.00	0.00	N
ATOM	1361	H	GLY	X	282	50.054	95.155	115.169	1.00	0.00	H
ATOM	1362	CA	GLY	X	282	49.376	95.211	113.188	1.00	0.00	C
ATOM	1363	HA2	GLY	X	282	48.640	95.980	113.425	1.00	0.00	H
ATOM	1364	HA3	GLY	X	282	49.749	95.576	112.230	1.00	0.00	H
ATOM	1365	C	GLY	X	282	48.675	93.821	113.035	1.00	0.00	C
ATOM	1366	O	GLY	X	282	47.790	93.644	112.193	1.00	0.00	O
ATOM	1367	N	SER	X	283	49.001	92.868	113.905	1.00	0.00	N
ATOM	1368	H	SER	X	283	49.597	93.204	114.649	1.00	0.00	H
ATOM	1369	CA	SER	X	283	48.322	91.587	114.158	1.00	0.00	C
ATOM	1370	HA	SER	X	283	48.341	91.157	113.157	1.00	0.00	H
ATOM	1371	CB	SER	X	283	49.126	90.676	115.100	1.00	0.00	C
ATOM	1372	HB2	SER	X	283	48.551	89.758	115.223	1.00	0.00	H
ATOM	1373	HB3	SER	X	283	50.112	90.483	114.678	1.00	0.00	H
ATOM	1374	OG	SER	X	283	49.363	91.324	116.296	1.00	0.00	O
ATOM	1375	HG	SER	X	283	50.133	91.879	116.149	1.00	0.00	H
ATOM	1376	C	SER	X	283	46.859	91.732	114.681	1.00	0.00	C
ATOM	1377	O	SER	X	283	45.998	90.985	114.355	1.00	0.00	O
ATOM	1378	N	GLY	X	284	46.623	92.797	115.459	1.00	0.00	N
ATOM	1379	H	GLY	X	284	47.431	93.336	115.736	1.00	0.00	H
ATOM	1380	CA	GLY	X	284	45.313	92.965	116.026	1.00	0.00	C
ATOM	1381	HA2	GLY	X	284	44.711	93.601	115.378	1.00	0.00	H
ATOM	1382	HA3	GLY	X	284	44.767	92.033	115.879	1.00	0.00	H
ATOM	1383	C	GLY	X	284	45.098	93.355	117.522	1.00	0.00	C
ATOM	1384	O	GLY	X	284	43.960	93.322	117.928	1.00	0.00	O
ATOM	1385	N	LYS	X	285	46.173	93.688	118.182	1.00	0.00	N
ATOM	1386	H	LYS	X	285	47.031	93.681	117.649	1.00	0.00	H
ATOM	1387	CA	LYS	X	285	46.148	93.921	119.636	1.00	0.00	C
ATOM	1388	HA	LYS	X	285	45.811	93.061	120.218	1.00	0.00	H
ATOM	1389	CB	LYS	X	285	47.647	94.092	120.045	1.00	0.00	C
ATOM	1390	HB2	LYS	X	285	48.034	94.964	119.518	1.00	0.00	H
ATOM	1391	HB3	LYS	X	285	47.676	94.289	121.117	1.00	0.00	H
ATOM	1392	CG	LYS	X	285	48.487	92.898	119.699	1.00	0.00	C

ATOM	1393	HG2	LYS	X	285	48.004	92.010	120.104	1.00	0.00	H
ATOM	1394	HG3	LYS	X	285	48.435	92.812	118.613	1.00	0.00	H
ATOM	1395	CD	LYS	X	285	49.946	92.913	120.221	1.00	0.00	C
ATOM	1396	HD2	LYS	X	285	49.960	93.328	121.229	1.00	0.00	H
ATOM	1397	HD3	LYS	X	285	50.202	91.855	120.297	1.00	0.00	H
ATOM	1398	CE	LYS	X	285	50.757	93.705	119.238	1.00	0.00	C
ATOM	1399	HE2	LYS	X	285	50.684	93.187	118.282	1.00	0.00	H
ATOM	1400	HE3	LYS	X	285	50.364	94.699	119.019	1.00	0.00	H
ATOM	1401	NZ	LYS	X	285	52.146	93.874	119.723	1.00	0.00	N
ATOM	1402	HZ1	LYS	X	285	52.567	94.682	119.288	1.00	0.00	H
ATOM	1403	HZ2	LYS	X	285	52.198	94.190	120.681	1.00	0.00	H
ATOM	1404	HZ3	LYS	X	285	52.604	93.001	119.501	1.00	0.00	H
ATOM	1405	C	LYS	X	285	45.347	95.107	120.122	1.00	0.00	C
ATOM	1406	O	LYS	X	285	44.484	94.977	121.022	1.00	0.00	O
ATOM	1407	N	SER	X	286	45.559	96.310	119.484	1.00	0.00	N
ATOM	1408	H	SER	X	286	46.289	96.298	118.786	1.00	0.00	H
ATOM	1409	CA	SER	X	286	44.646	97.460	119.673	1.00	0.00	C
ATOM	1410	HA	SER	X	286	44.671	97.738	120.727	1.00	0.00	H
ATOM	1411	CB	SER	X	286	44.979	98.706	118.917	1.00	0.00	C
ATOM	1412	HB2	SER	X	286	45.034	98.433	117.863	1.00	0.00	H
ATOM	1413	HB3	SER	X	286	44.168	99.422	119.057	1.00	0.00	H
ATOM	1414	OG	SER	X	286	46.080	99.422	119.370	1.00	0.00	O
ATOM	1415	HG	SER	X	286	46.380	99.058	120.205	1.00	0.00	H
ATOM	1416	C	SER	X	286	43.192	97.113	119.365	1.00	0.00	C
ATOM	1417	O	SER	X	286	42.291	97.355	120.165	1.00	0.00	O
ATOM	1418	N	THR	X	287	42.838	96.427	118.267	1.00	0.00	N
ATOM	1419	H	THR	X	287	43.580	96.170	117.632	1.00	0.00	H
ATOM	1420	CA	THR	X	287	41.493	96.115	117.861	1.00	0.00	C
ATOM	1421	HA	THR	X	287	40.912	97.034	117.787	1.00	0.00	H
ATOM	1422	CB	THR	X	287	41.461	95.383	116.478	1.00	0.00	C
ATOM	1423	HB	THR	X	287	42.027	94.459	116.605	1.00	0.00	H
ATOM	1424	CG2	THR	X	287	40.030	95.248	115.889	1.00	0.00	C
ATOM	1425	HG21	THR	X	287	40.087	94.902	114.857	1.00	0.00	H
ATOM	1426	HG22	THR	X	287	39.535	94.461	116.460	1.00	0.00	H
ATOM	1427	HG23	THR	X	287	39.355	96.093	116.018	1.00	0.00	H
ATOM	1428	OG1	THR	X	287	42.145	96.191	115.484	1.00	0.00	O
ATOM	1429	HG1	THR	X	287	43.052	95.982	115.713	1.00	0.00	H
ATOM	1430	C	THR	X	287	40.779	95.275	118.845	1.00	0.00	C
ATOM	1431	O	THR	X	287	39.612	95.562	119.107	1.00	0.00	O
ATOM	1432	N	LEU	X	288	41.505	94.339	119.491	1.00	0.00	N
ATOM	1433	H	LEU	X	288	42.483	94.327	119.238	1.00	0.00	H
ATOM	1434	CA	LEU	X	288	40.914	93.577	120.534	1.00	0.00	C
ATOM	1435	HA	LEU	X	288	40.088	93.052	120.051	1.00	0.00	H
ATOM	1436	CB	LEU	X	288	41.937	92.454	120.954	1.00	0.00	C
ATOM	1437	HB2	LEU	X	288	42.668	92.428	120.145	1.00	0.00	H
ATOM	1438	HB3	LEU	X	288	42.391	92.698	121.915	1.00	0.00	H
ATOM	1439	CG	LEU	X	288	41.368	91.089	121.111	1.00	0.00	C
ATOM	1440	HG	LEU	X	288	40.644	90.841	120.333	1.00	0.00	H
ATOM	1441	CD1	LEU	X	288	42.591	90.179	120.868	1.00	0.00	C
ATOM	1442	HD11	LEU	X	288	43.421	90.423	121.530	1.00	0.00	H
ATOM	1443	HD12	LEU	X	288	42.199	89.174	121.024	1.00	0.00	H
ATOM	1444	HD13	LEU	X	288	42.986	90.285	119.858	1.00	0.00	H
ATOM	1445	CD2	LEU	X	288	40.686	90.902	122.445	1.00	0.00	C
ATOM	1446	HD21	LEU	X	288	41.415	90.951	123.253	1.00	0.00	H
ATOM	1447	HD22	LEU	X	288	40.035	91.751	122.652	1.00	0.00	H
ATOM	1448	HD23	LEU	X	288	40.075	90.001	122.401	1.00	0.00	H
ATOM	1449	C	LEU	X	288	40.490	94.500	121.662	1.00	0.00	C
ATOM	1450	O	LEU	X	288	39.327	94.610	122.030	1.00	0.00	O
ATOM	1451	N	LEU	X	289	41.506	95.107	122.256	1.00	0.00	N
ATOM	1452	H	LEU	X	289	42.404	95.193	121.804	1.00	0.00	H
ATOM	1453	CA	LEU	X	289	41.302	96.066	123.329	1.00	0.00	C
ATOM	1454	HA	LEU	X	289	40.869	95.630	124.230	1.00	0.00	H
ATOM	1455	CB	LEU	X	289	42.663	96.612	123.764	1.00	0.00	C
ATOM	1456	HB2	LEU	X	289	43.328	96.929	122.962	1.00	0.00	H
ATOM	1457	HB3	LEU	X	289	42.436	97.538	124.292	1.00	0.00	H
ATOM	1458	CG	LEU	X	289	43.423	95.625	124.640	1.00	0.00	C
ATOM	1459	HG	LEU	X	289	43.453	94.609	124.241	1.00	0.00	H
ATOM	1460	CD1	LEU	X	289	44.879	96.080	124.893	1.00	0.00	C
ATOM	1461	HD11	LEU	X	289	45.001	97.146	125.085	1.00	0.00	H
ATOM	1462	HD12	LEU	X	289	45.485	95.562	125.637	1.00	0.00	H
ATOM	1463	HD13	LEU	X	289	45.350	95.966	123.918	1.00	0.00	H
ATOM	1464	CD2	LEU	X	289	42.770	95.413	125.984	1.00	0.00	C
ATOM	1465	HD21	LEU	X	289	41.901	94.766	125.868	1.00	0.00	H
ATOM	1466	HD22	LEU	X	289	43.460	94.904	126.658	1.00	0.00	H
ATOM	1467	HD23	LEU	X	289	42.551	96.393	126.407	1.00	0.00	H
ATOM	1468	C	LEU	X	289	40.322	97.242	122.938	1.00	0.00	C
ATOM	1469	O	LEU	X	289	39.899	97.890	123.829	1.00	0.00	O
ATOM	1470	N	GLN	X	290	39.997	97.502	121.692	1.00	0.00	N
ATOM	1471	H	GLN	X	290	40.342	96.999	120.886	1.00	0.00	H
ATOM	1472	CA	GLN	X	290	39.034	98.549	121.286	1.00	0.00	C
ATOM	1473	HA	GLN	X	290	39.136	99.489	121.830	1.00	0.00	H
ATOM	1474	CB	GLN	X	290	39.436	98.927	119.782	1.00	0.00	C

ATOM	1475	HB2	GLN	X	290	40.474	99.246	119.694	1.00	0.00	H
ATOM	1476	HB3	GLN	X	290	39.267	98.170	119.016	1.00	0.00	H
ATOM	1477	CG	GLN	X	290	38.507	100.101	119.436	1.00	0.00	C
ATOM	1478	HG2	GLN	X	290	37.461	99.802	119.384	1.00	0.00	H
ATOM	1479	HG3	GLN	X	290	38.553	100.936	120.133	1.00	0.00	H
ATOM	1480	CD	GLN	X	290	38.832	100.769	118.095	1.00	0.00	C
ATOM	1481	OE1	GLN	X	290	39.680	100.295	117.303	1.00	0.00	O
ATOM	1482	NE2	GLN	X	290	38.314	101.962	117.878	1.00	0.00	N
ATOM	1483	HE21	GLN	X	290	38.742	102.575	117.198	1.00	0.00	H
ATOM	1484	HE22	GLN	X	290	37.737	102.340	118.616	1.00	0.00	H
ATOM	1485	C	GLN	X	290	37.577	98.140	121.481	1.00	0.00	C
ATOM	1486	O	GLN	X	290	36.770	98.959	121.886	1.00	0.00	O
ATOM	1487	N	GLN	X	291	37.261	96.853	121.412	1.00	0.00	N
ATOM	1488	H	GLN	X	291	38.059	96.302	121.128	1.00	0.00	H
ATOM	1489	CA	GLN	X	291	35.993	96.283	121.765	1.00	0.00	C
ATOM	1490	HA	GLN	X	291	35.146	96.810	121.326	1.00	0.00	H
ATOM	1491	CB	GLN	X	291	35.962	94.850	121.130	1.00	0.00	C
ATOM	1492	HB2	GLN	X	291	36.008	94.886	120.042	1.00	0.00	H
ATOM	1493	HB3	GLN	X	291	36.821	94.292	121.498	1.00	0.00	H
ATOM	1494	CG	GLN	X	291	34.685	93.972	121.444	1.00	0.00	C
ATOM	1495	HG2	GLN	X	291	34.889	92.918	121.257	1.00	0.00	H
ATOM	1496	HG3	GLN	X	291	34.469	94.008	122.511	1.00	0.00	H
ATOM	1497	CD	GLN	X	291	33.475	94.371	120.608	1.00	0.00	C
ATOM	1498	OE1	GLN	X	291	33.393	95.479	120.091	1.00	0.00	O
ATOM	1499	NE2	GLN	X	291	32.516	93.532	120.395	1.00	0.00	N
ATOM	1500	HE21	GLN	X	291	31.772	93.624	119.719	1.00	0.00	H
ATOM	1501	HE22	GLN	X	291	32.665	92.708	120.961	1.00	0.00	H
ATOM	1502	C	GLN	X	291	35.837	96.339	123.312	1.00	0.00	C
ATOM	1503	O	GLN	X	291	34.697	96.648	123.668	1.00	0.00	O
ATOM	1504	N	VAL	X	292	36.834	96.082	124.183	1.00	0.00	N
ATOM	1505	H	VAL	X	292	37.640	95.629	123.779	1.00	0.00	H
ATOM	1506	CA	VAL	X	292	36.689	96.134	125.676	1.00	0.00	C
ATOM	1507	HA	VAL	X	292	35.919	95.415	125.956	1.00	0.00	H
ATOM	1508	CB	VAL	X	292	38.079	95.791	126.371	1.00	0.00	C
ATOM	1509	HB	VAL	X	292	38.761	96.575	126.043	1.00	0.00	H
ATOM	1510	CG1	VAL	X	292	37.887	96.043	127.899	1.00	0.00	C
ATOM	1511	HG11	VAL	X	292	37.489	97.036	128.108	1.00	0.00	H
ATOM	1512	HG12	VAL	X	292	37.240	95.282	128.335	1.00	0.00	H
ATOM	1513	HG13	VAL	X	292	38.859	95.868	128.363	1.00	0.00	H
ATOM	1514	CG2	VAL	X	292	38.518	94.343	126.154	1.00	0.00	C
ATOM	1515	HG21	VAL	X	292	38.548	94.115	125.088	1.00	0.00	H
ATOM	1516	HG22	VAL	X	292	39.455	94.252	126.703	1.00	0.00	H
ATOM	1517	HG23	VAL	X	292	37.728	93.775	126.644	1.00	0.00	H
ATOM	1518	C	VAL	X	292	36.318	97.574	126.070	1.00	0.00	C
ATOM	1519	O	VAL	X	292	35.383	97.734	126.877	1.00	0.00	O
ATOM	1520	N	HID	X	293	36.894	98.659	125.490	1.00	0.00	N
ATOM	1521	H	HID	X	293	37.602	98.531	124.780	1.00	0.00	H
ATOM	1522	CA	HID	X	293	36.426	100.020	125.795	1.00	0.00	C
ATOM	1523	HA	HID	X	293	36.310	100.059	126.879	1.00	0.00	H
ATOM	1524	CB	HID	X	293	37.566	100.942	125.327	1.00	0.00	C
ATOM	1525	HB2	HID	X	293	37.879	100.916	124.282	1.00	0.00	H
ATOM	1526	HB3	HID	X	293	37.414	101.947	125.718	1.00	0.00	H
ATOM	1527	CG	HID	X	293	38.809	100.702	126.122	1.00	0.00	C
ATOM	1528	ND1	HID	X	293	39.759	99.675	125.891	1.00	0.00	N
ATOM	1529	HD1	HID	X	293	39.750	99.016	125.125	1.00	0.00	H
ATOM	1530	CE1	HID	X	293	40.641	99.678	126.858	1.00	0.00	C
ATOM	1531	HE1	HID	X	293	41.451	98.966	126.801	1.00	0.00	H
ATOM	1532	NE2	HID	X	293	40.287	100.593	127.799	1.00	0.00	N
ATOM	1533	CD2	HID	X	293	39.128	101.211	127.356	1.00	0.00	C
ATOM	1534	HD2	HID	X	293	38.620	102.035	127.835	1.00	0.00	H
ATOM	1535	C	HID	X	293	35.118	100.421	125.199	1.00	0.00	C
ATOM	1536	O	HID	X	293	34.370	101.137	125.840	1.00	0.00	O
ATOM	1537	N	LEU	X	294	34.689	99.765	124.107	1.00	0.00	N
ATOM	1538	H	LEU	X	294	35.281	99.137	123.581	1.00	0.00	H
ATOM	1539	CA	LEU	X	294	33.381	100.000	123.598	1.00	0.00	C
ATOM	1540	HA	LEU	X	294	33.255	101.079	123.678	1.00	0.00	H
ATOM	1541	CB	LEU	X	294	33.480	99.648	122.080	1.00	0.00	C
ATOM	1542	HB2	LEU	X	294	33.872	98.631	122.065	1.00	0.00	H
ATOM	1543	HB3	LEU	X	294	32.455	99.475	121.753	1.00	0.00	H
ATOM	1544	CG	LEU	X	294	34.172	100.753	121.253	1.00	0.00	C
ATOM	1545	HG	LEU	X	294	35.074	101.096	121.761	1.00	0.00	H
ATOM	1546	CD1	LEU	X	294	34.562	100.180	119.852	1.00	0.00	C
ATOM	1547	HD11	LEU	X	294	35.127	99.260	120.002	1.00	0.00	H
ATOM	1548	HD12	LEU	X	294	33.716	100.007	119.187	1.00	0.00	H
ATOM	1549	HD13	LEU	X	294	35.140	100.926	119.304	1.00	0.00	H
ATOM	1550	CD2	LEU	X	294	33.250	101.863	121.009	1.00	0.00	C
ATOM	1551	HD21	LEU	X	294	33.600	102.611	120.297	1.00	0.00	H
ATOM	1552	HD22	LEU	X	294	32.241	101.496	120.818	1.00	0.00	H
ATOM	1553	HD23	LEU	X	294	33.266	102.544	121.859	1.00	0.00	H
ATOM	1554	C	LEU	X	294	32.291	99.208	124.327	1.00	0.00	C
ATOM	1555	O	LEU	X	294	31.149	99.630	124.389	1.00	0.00	O
ATOM	1556	N	LEU	X	295	32.629	98.078	124.963	1.00	0.00	N

ATOM	1557	H	LEU	X	295	33.547	97.725	124.733	1.00	0.00	H
ATOM	1558	CA	LEU	X	295	31.667	97.264	125.782	1.00	0.00	C
ATOM	1559	HA	LEU	X	295	30.681	97.295	125.316	1.00	0.00	H
ATOM	1560	CB	LEU	X	295	32.057	95.735	125.863	1.00	0.00	C
ATOM	1561	HB2	LEU	X	295	33.084	95.642	126.219	1.00	0.00	H
ATOM	1562	HB3	LEU	X	295	31.386	95.197	126.535	1.00	0.00	H
ATOM	1563	CG	LEU	X	295	31.992	94.943	124.495	1.00	0.00	C
ATOM	1564	HG	LEU	X	295	32.594	95.462	123.750	1.00	0.00	H
ATOM	1565	CD1	LEU	X	295	32.648	93.554	124.661	1.00	0.00	C
ATOM	1566	HD11	LEU	X	295	32.393	93.143	125.636	1.00	0.00	H
ATOM	1567	HD12	LEU	X	295	32.344	92.878	123.860	1.00	0.00	H
ATOM	1568	HD13	LEU	X	295	33.730	93.666	124.583	1.00	0.00	H
ATOM	1569	CD2	LEU	X	295	30.569	94.626	124.125	1.00	0.00	C
ATOM	1570	HD21	LEU	X	295	30.534	94.043	123.204	1.00	0.00	H
ATOM	1571	HD22	LEU	X	295	30.135	94.023	124.923	1.00	0.00	H
ATOM	1572	HD23	LEU	X	295	30.019	95.546	123.924	1.00	0.00	H
ATOM	1573	C	LEU	X	295	31.521	97.808	127.236	1.00	0.00	C
ATOM	1574	O	LEU	X	295	30.407	98.026	127.695	1.00	0.00	O
ATOM	1575	N	TRP	X	296	32.629	98.286	127.813	1.00	0.00	N
ATOM	1576	H	TRP	X	296	33.485	98.088	127.316	1.00	0.00	H
ATOM	1577	CA	TRP	X	296	32.597	99.254	128.895	1.00	0.00	C
ATOM	1578	HA	TRP	X	296	32.249	98.693	129.763	1.00	0.00	H
ATOM	1579	CB	TRP	X	296	34.068	99.582	129.277	1.00	0.00	C
ATOM	1580	HB2	TRP	X	296	34.534	98.656	129.608	1.00	0.00	H
ATOM	1581	HB3	TRP	X	296	34.594	99.983	128.410	1.00	0.00	H
ATOM	1582	CG	TRP	X	296	34.207	100.659	130.360	1.00	0.00	C
ATOM	1583	CD1	TRP	X	296	34.715	101.877	130.225	1.00	0.00	C
ATOM	1584	HD1	TRP	X	296	35.072	102.221	129.264	1.00	0.00	H
ATOM	1585	NE1	TRP	X	296	34.801	102.501	131.422	1.00	0.00	N
ATOM	1586	HE1	TRP	X	296	35.297	103.353	131.642	1.00	0.00	H
ATOM	1587	CE2	TRP	X	296	34.332	101.714	132.429	1.00	0.00	C
ATOM	1588	CZ2	TRP	X	296	34.191	101.936	133.829	1.00	0.00	C
ATOM	1589	HZ2	TRP	X	296	34.526	102.870	134.256	1.00	0.00	H
ATOM	1590	CH2	TRP	X	296	33.466	101.024	134.643	1.00	0.00	C
ATOM	1591	HH2	TRP	X	296	33.377	101.187	135.707	1.00	0.00	H
ATOM	1592	CZ3	TRP	X	296	33.120	99.753	134.033	1.00	0.00	C
ATOM	1593	HZ3	TRP	X	296	32.781	98.905	134.609	1.00	0.00	H
ATOM	1594	CE3	TRP	X	296	33.300	99.560	132.650	1.00	0.00	C
ATOM	1595	HE3	TRP	X	296	32.943	98.603	132.298	1.00	0.00	H
ATOM	1596	CD2	TRP	X	296	33.810	100.567	131.809	1.00	0.00	C
ATOM	1597	C	TRP	X	296	31.675	100.477	128.650	1.00	0.00	C
ATOM	1598	O	TRP	X	296	30.843	100.794	129.490	1.00	0.00	O
ATOM	1599	N	ALA	X	297	31.953	101.241	127.566	1.00	0.00	N
ATOM	1600	H	ALA	X	297	32.724	101.124	126.924	1.00	0.00	H
ATOM	1601	CA	ALA	X	297	31.217	102.531	127.322	1.00	0.00	C
ATOM	1602	HA	ALA	X	297	31.474	103.288	128.062	1.00	0.00	H
ATOM	1603	CB	ALA	X	297	31.837	103.192	126.086	1.00	0.00	C
ATOM	1604	HB1	ALA	X	297	31.335	104.160	126.121	1.00	0.00	H
ATOM	1605	HB2	ALA	X	297	32.925	103.229	126.109	1.00	0.00	H
ATOM	1606	HB3	ALA	X	297	31.510	102.757	125.141	1.00	0.00	H
ATOM	1607	C	ALA	X	297	29.764	102.287	127.184	1.00	0.00	C
ATOM	1608	O	ALA	X	297	28.999	102.871	127.939	1.00	0.00	O
ATOM	1609	N	THR	X	298	29.388	101.283	126.329	1.00	0.00	N
ATOM	1610	H	THR	X	298	30.149	100.993	125.733	1.00	0.00	H
ATOM	1611	CA	THR	X	298	27.982	100.983	125.956	1.00	0.00	C
ATOM	1612	HA	THR	X	298	27.413	101.895	125.775	1.00	0.00	H
ATOM	1613	CB	THR	X	298	27.785	100.291	124.586	1.00	0.00	C
ATOM	1614	HB	THR	X	298	26.733	100.038	124.459	1.00	0.00	H
ATOM	1615	CG2	THR	X	298	28.159	101.257	123.469	1.00	0.00	C
ATOM	1616	HG21	THR	X	298	29.219	101.510	123.445	1.00	0.00	H
ATOM	1617	HG22	THR	X	298	27.860	100.765	122.543	1.00	0.00	H
ATOM	1618	HG23	THR	X	298	27.689	102.222	123.657	1.00	0.00	H
ATOM	1619	OG1	THR	X	298	28.532	99.093	124.416	1.00	0.00	O
ATOM	1620	HG1	THR	X	298	29.440	99.377	124.545	1.00	0.00	H
ATOM	1621	C	THR	X	298	27.215	100.201	127.017	1.00	0.00	C
ATOM	1622	O	THR	X	298	25.975	100.084	126.973	1.00	0.00	O
ATOM	1623	N	GLY	X	299	27.913	99.821	128.099	1.00	0.00	N
ATOM	1624	H	GLY	X	299	28.886	100.092	128.115	1.00	0.00	H
ATOM	1625	CA	GLY	X	299	27.388	99.216	129.234	1.00	0.00	C
ATOM	1626	HA2	GLY	X	299	28.047	99.421	130.077	1.00	0.00	H
ATOM	1627	HA3	GLY	X	299	26.442	99.583	129.630	1.00	0.00	H
ATOM	1628	C	GLY	X	299	27.159	97.672	129.104	1.00	0.00	C
ATOM	1629	O	GLY	X	299	26.385	97.133	129.888	1.00	0.00	O
ATOM	1630	N	GLN	X	300	27.700	97.041	128.075	1.00	0.00	N
ATOM	1631	H	GLN	X	300	28.406	97.529	127.542	1.00	0.00	H
ATOM	1632	CA	GLN	X	300	27.451	95.606	127.688	1.00	0.00	C
ATOM	1633	HA	GLN	X	300	26.396	95.363	127.819	1.00	0.00	H
ATOM	1634	CB	GLN	X	300	27.856	95.335	126.195	1.00	0.00	C
ATOM	1635	HB2	GLN	X	300	28.897	95.610	126.025	1.00	0.00	H
ATOM	1636	HB3	GLN	X	300	27.760	94.278	125.948	1.00	0.00	H
ATOM	1637	CG	GLN	X	300	26.983	96.126	125.260	1.00	0.00	C
ATOM	1638	HG2	GLN	X	300	26.922	97.146	125.639	1.00	0.00	H

ATOM	1639	HG3	GLN	X	300	27.565	96.183	124.339	1.00	0.00	H
ATOM	1640	CD	GLN	X	300	25.563	95.645	124.891	1.00	0.00	C
ATOM	1641	OE1	GLN	X	300	25.030	94.725	125.486	1.00	0.00	O
ATOM	1642	NE2	GLN	X	300	24.972	96.245	123.884	1.00	0.00	N
ATOM	1643	HE21	GLN	X	300	24.043	95.898	123.692	1.00	0.00	H
ATOM	1644	HE22	GLN	X	300	25.336	97.133	123.569	1.00	0.00	H
ATOM	1645	C	GLN	X	300	28.200	94.576	128.554	1.00	0.00	C
ATOM	1646	O	GLN	X	300	27.705	93.445	128.670	1.00	0.00	O
ATOM	1647	N	ASP	X	301	29.388	94.898	129.036	1.00	0.00	N
ATOM	1648	H	ASP	X	301	29.761	95.836	129.003	1.00	0.00	H
ATOM	1649	CA	ASP	X	301	30.308	94.042	129.811	1.00	0.00	C
ATOM	1650	HA	ASP	X	301	29.711	93.466	130.519	1.00	0.00	H
ATOM	1651	CB	ASP	X	301	30.961	93.059	128.875	1.00	0.00	C
ATOM	1652	HB2	ASP	X	301	30.211	92.496	128.321	1.00	0.00	H
ATOM	1653	HB3	ASP	X	301	31.457	93.603	128.072	1.00	0.00	H
ATOM	1654	CG	ASP	X	301	31.885	91.940	129.447	1.00	0.00	C
ATOM	1655	OD1	ASP	X	301	31.798	91.551	130.620	1.00	0.00	O
ATOM	1656	OD2	ASP	X	301	32.551	91.347	128.608	1.00	0.00	O
ATOM	1657	C	ASP	X	301	31.248	94.973	130.673	1.00	0.00	C
ATOM	1658	O	ASP	X	301	31.298	96.228	130.599	1.00	0.00	O
ATOM	1659	N	PHE	X	302	31.974	94.263	131.560	1.00	0.00	N
ATOM	1660	H	PHE	X	302	31.933	93.257	131.479	1.00	0.00	H
ATOM	1661	CA	PHE	X	302	32.908	94.814	132.524	1.00	0.00	C
ATOM	1662	HA	PHE	X	302	33.265	94.017	133.177	1.00	0.00	H
ATOM	1663	CB	PHE	X	302	34.128	95.245	131.638	1.00	0.00	C
ATOM	1664	HB2	PHE	X	302	33.891	96.160	131.094	1.00	0.00	H
ATOM	1665	HB3	PHE	X	302	34.964	95.514	132.286	1.00	0.00	H
ATOM	1666	CG	PHE	X	302	34.523	94.261	130.586	1.00	0.00	C
ATOM	1667	CD1	PHE	X	302	35.381	93.110	130.916	1.00	0.00	C
ATOM	1668	HD1	PHE	X	302	35.856	93.020	131.881	1.00	0.00	H
ATOM	1669	CE1	PHE	X	302	35.777	92.263	129.854	1.00	0.00	C
ATOM	1670	HE1	PHE	X	302	36.469	91.448	130.013	1.00	0.00	H
ATOM	1671	CZ	PHE	X	302	35.328	92.556	128.543	1.00	0.00	C
ATOM	1672	HZ	PHE	X	302	35.726	91.952	127.741	1.00	0.00	H
ATOM	1673	CE2	PHE	X	302	34.624	93.649	128.168	1.00	0.00	C
ATOM	1674	HE2	PHE	X	302	34.352	93.749	127.128	1.00	0.00	H
ATOM	1675	CD2	PHE	X	302	34.088	94.477	129.213	1.00	0.00	C
ATOM	1676	HD2	PHE	X	302	33.655	95.443	129.007	1.00	0.00	H
ATOM	1677	C	PHE	X	302	32.416	95.856	133.471	1.00	0.00	C
ATOM	1678	O	PHE	X	302	33.165	96.625	134.136	1.00	0.00	O
ATOM	1679	N	GLN	X	303	31.044	95.874	133.615	1.00	0.00	N
ATOM	1680	H	GLN	X	303	30.597	94.985	133.446	1.00	0.00	H
ATOM	1681	CA	GLN	X	303	30.348	96.702	134.612	1.00	0.00	C
ATOM	1682	HA	GLN	X	303	30.674	97.731	134.468	1.00	0.00	H
ATOM	1683	CB	GLN	X	303	28.881	96.612	134.336	1.00	0.00	C
ATOM	1684	HB2	GLN	X	303	28.550	95.591	134.528	1.00	0.00	H
ATOM	1685	HB3	GLN	X	303	28.292	97.100	135.112	1.00	0.00	H
ATOM	1686	CG	GLN	X	303	28.514	97.002	132.895	1.00	0.00	C
ATOM	1687	HG2	GLN	X	303	28.861	96.253	132.183	1.00	0.00	H
ATOM	1688	HG3	GLN	X	303	27.444	97.163	132.762	1.00	0.00	H
ATOM	1689	CD	GLN	X	303	29.038	98.378	132.525	1.00	0.00	C
ATOM	1690	OE1	GLN	X	303	28.533	99.360	133.062	1.00	0.00	O
ATOM	1691	NE2	GLN	X	303	29.992	98.505	131.611	1.00	0.00	N
ATOM	1692	HE21	GLN	X	303	30.341	99.447	131.502	1.00	0.00	H
ATOM	1693	HE22	GLN	X	303	30.438	97.724	131.153	1.00	0.00	H
ATOM	1694	C	GLN	X	303	30.723	96.466	136.029	1.00	0.00	C
ATOM	1695	O	GLN	X	303	30.095	97.075	136.956	1.00	0.00	O
ATOM	1696	N	GLU	X	304	31.663	95.585	136.376	1.00	0.00	N
ATOM	1697	H	GLU	X	304	32.284	95.286	135.638	1.00	0.00	H
ATOM	1698	CA	GLU	X	304	32.125	95.388	137.727	1.00	0.00	C
ATOM	1699	HA	GLU	X	304	31.286	95.327	138.421	1.00	0.00	H
ATOM	1700	CB	GLU	X	304	32.777	94.054	137.887	1.00	0.00	C
ATOM	1701	HB2	GLU	X	304	33.406	93.904	137.010	1.00	0.00	H
ATOM	1702	HB3	GLU	X	304	33.515	94.059	138.689	1.00	0.00	H
ATOM	1703	CG	GLU	X	304	31.737	92.865	138.129	1.00	0.00	C
ATOM	1704	HG2	GLU	X	304	30.876	93.174	137.536	1.00	0.00	H
ATOM	1705	HG3	GLU	X	304	32.196	91.929	137.813	1.00	0.00	H
ATOM	1706	CD	GLU	X	304	31.369	92.735	139.617	1.00	0.00	C
ATOM	1707	OE1	GLU	X	304	31.098	93.739	140.220	1.00	0.00	O
ATOM	1708	OE2	GLU	X	304	31.224	91.604	140.206	1.00	0.00	O
ATOM	1709	C	GLU	X	304	33.173	96.403	138.227	1.00	0.00	C
ATOM	1710	O	GLU	X	304	33.198	96.735	139.411	1.00	0.00	O
ATOM	1711	N	PHE	X	305	33.921	96.988	137.312	1.00	0.00	N
ATOM	1712	H	PHE	X	305	33.743	96.601	136.396	1.00	0.00	H
ATOM	1713	CA	PHE	X	305	34.897	97.985	137.517	1.00	0.00	C
ATOM	1714	HA	PHE	X	305	35.388	97.665	138.437	1.00	0.00	H
ATOM	1715	CB	PHE	X	305	35.911	98.103	136.385	1.00	0.00	C
ATOM	1716	HB2	PHE	X	305	35.267	98.230	135.515	1.00	0.00	H
ATOM	1717	HB3	PHE	X	305	36.625	98.915	136.522	1.00	0.00	H
ATOM	1718	CG	PHE	X	305	36.733	96.867	136.154	1.00	0.00	C
ATOM	1719	CD1	PHE	X	305	36.492	95.967	135.052	1.00	0.00	C
ATOM	1720	HD1	PHE	X	305	35.719	96.239	134.348	1.00	0.00	H

ATOM	1721	CE1	PHE	X	305	37.284	94.801	134.900	1.00	0.00	C
ATOM	1722	HE1	PHE	X	305	37.209	94.191	134.011	1.00	0.00	H
ATOM	1723	CZ	PHE	X	305	38.268	94.537	135.814	1.00	0.00	C
ATOM	1724	HZ	PHE	X	305	38.845	93.624	135.766	1.00	0.00	H
ATOM	1725	CE2	PHE	X	305	38.584	95.484	136.857	1.00	0.00	C
ATOM	1726	HE2	PHE	X	305	39.490	95.446	137.445	1.00	0.00	H
ATOM	1727	CD2	PHE	X	305	37.806	96.600	137.007	1.00	0.00	C
ATOM	1728	HD2	PHE	X	305	38.141	97.258	137.795	1.00	0.00	H
ATOM	1729	C	PHE	X	305	34.103	99.251	137.757	1.00	0.00	C
ATOM	1730	O	PHE	X	305	32.921	99.306	137.440	1.00	0.00	O
ATOM	1731	N	LEU	X	306	34.746	100.257	138.358	1.00	0.00	N
ATOM	1732	H	LEU	X	306	35.655	99.986	138.704	1.00	0.00	H
ATOM	1733	CA	LEU	X	306	34.299	101.635	138.474	1.00	0.00	C
ATOM	1734	HA	LEU	X	306	33.228	101.713	138.283	1.00	0.00	H
ATOM	1735	CB	LEU	X	306	34.669	102.086	139.962	1.00	0.00	C
ATOM	1736	HB2	LEU	X	306	35.710	101.799	140.107	1.00	0.00	H
ATOM	1737	HB3	LEU	X	306	34.722	103.174	140.019	1.00	0.00	H
ATOM	1738	CG	LEU	X	306	33.976	101.539	141.204	1.00	0.00	C
ATOM	1739	HG	LEU	X	306	33.865	100.456	141.167	1.00	0.00	H
ATOM	1740	CD1	LEU	X	306	34.675	101.968	142.501	1.00	0.00	C
ATOM	1741	HD11	LEU	X	306	35.736	101.734	142.590	1.00	0.00	H
ATOM	1742	HD12	LEU	X	306	34.627	103.049	142.633	1.00	0.00	H
ATOM	1743	HD13	LEU	X	306	34.167	101.564	143.376	1.00	0.00	H
ATOM	1744	CD2	LEU	X	306	32.517	102.076	141.321	1.00	0.00	C
ATOM	1745	HD21	LEU	X	306	32.205	102.104	142.365	1.00	0.00	H
ATOM	1746	HD22	LEU	X	306	32.582	103.048	140.832	1.00	0.00	H
ATOM	1747	HD23	LEU	X	306	31.823	101.569	140.648	1.00	0.00	H
ATOM	1748	C	LEU	X	306	35.125	102.439	137.461	1.00	0.00	C
ATOM	1749	O	LEU	X	306	34.580	103.393	136.831	1.00	0.00	O
ATOM	1750	N	PHE	X	307	36.433	102.078	137.229	1.00	0.00	N
ATOM	1751	H	PHE	X	307	36.816	101.271	137.699	1.00	0.00	H
ATOM	1752	CA	PHE	X	307	37.358	102.805	136.410	1.00	0.00	C
ATOM	1753	HA	PHE	X	307	36.678	103.391	135.794	1.00	0.00	H
ATOM	1754	CB	PHE	X	307	38.321	103.611	137.291	1.00	0.00	C
ATOM	1755	HB2	PHE	X	307	38.967	102.901	137.807	1.00	0.00	H
ATOM	1756	HB3	PHE	X	307	38.932	104.313	136.725	1.00	0.00	H
ATOM	1757	CG	PHE	X	307	37.738	104.361	138.448	1.00	0.00	C
ATOM	1758	CD1	PHE	X	307	36.774	105.293	138.191	1.00	0.00	C
ATOM	1759	HD1	PHE	X	307	36.329	105.454	137.220	1.00	0.00	H
ATOM	1760	CE1	PHE	X	307	36.073	105.946	139.234	1.00	0.00	C
ATOM	1761	HE1	PHE	X	307	35.154	106.476	139.025	1.00	0.00	H
ATOM	1762	CZ	PHE	X	307	36.496	105.740	140.545	1.00	0.00	C
ATOM	1763	HZ	PHE	X	307	36.169	106.437	141.303	1.00	0.00	H
ATOM	1764	CE2	PHE	X	307	37.461	104.829	140.839	1.00	0.00	C
ATOM	1765	HE2	PHE	X	307	37.772	104.773	141.872	1.00	0.00	H
ATOM	1766	CD2	PHE	X	307	38.112	104.143	139.808	1.00	0.00	C
ATOM	1767	HD2	PHE	X	307	38.895	103.415	139.965	1.00	0.00	H
ATOM	1768	C	PHE	X	307	38.213	101.905	135.494	1.00	0.00	C
ATOM	1769	O	PHE	X	307	38.767	100.926	136.015	1.00	0.00	O
ATOM	1770	N	VAL	X	308	38.145	102.277	134.232	1.00	0.00	N
ATOM	1771	H	VAL	X	308	37.741	103.184	134.046	1.00	0.00	H
ATOM	1772	CA	VAL	X	308	39.035	101.778	133.274	1.00	0.00	C
ATOM	1773	HA	VAL	X	308	39.588	100.969	133.752	1.00	0.00	H
ATOM	1774	CB	VAL	X	308	38.308	101.278	131.933	1.00	0.00	C
ATOM	1775	HB	VAL	X	308	37.574	101.994	131.565	1.00	0.00	H
ATOM	1776	CG1	VAL	X	308	39.202	100.973	130.747	1.00	0.00	C
ATOM	1777	HG11	VAL	X	308	40.047	100.309	130.934	1.00	0.00	H
ATOM	1778	HG12	VAL	X	308	38.630	100.415	130.006	1.00	0.00	H
ATOM	1779	HG13	VAL	X	308	39.465	101.885	130.211	1.00	0.00	H
ATOM	1780	CG2	VAL	X	308	37.504	100.029	132.294	1.00	0.00	C
ATOM	1781	HG21	VAL	X	308	36.720	100.222	133.029	1.00	0.00	H
ATOM	1782	HG22	VAL	X	308	37.121	99.629	131.355	1.00	0.00	H
ATOM	1783	HG23	VAL	X	308	38.061	99.280	132.859	1.00	0.00	H
ATOM	1784	C	VAL	X	308	39.912	102.972	132.942	1.00	0.00	C
ATOM	1785	O	VAL	X	308	39.301	104.039	132.781	1.00	0.00	O
ATOM	1786	N	PHE	X	309	41.254	102.824	132.919	1.00	0.00	N
ATOM	1787	H	PHE	X	309	41.571	101.873	133.047	1.00	0.00	H
ATOM	1788	CA	PHE	X	309	42.171	103.800	132.384	1.00	0.00	C
ATOM	1789	HA	PHE	X	309	41.572	104.618	131.981	1.00	0.00	H
ATOM	1790	CB	PHE	X	309	43.067	104.237	133.607	1.00	0.00	C
ATOM	1791	HB2	PHE	X	309	43.616	103.332	133.863	1.00	0.00	H
ATOM	1792	HB3	PHE	X	309	43.786	105.003	133.311	1.00	0.00	H
ATOM	1793	CG	PHE	X	309	42.390	104.787	134.807	1.00	0.00	C
ATOM	1794	CD1	PHE	X	309	41.985	106.103	134.795	1.00	0.00	C
ATOM	1795	HD1	PHE	X	309	42.160	106.745	133.945	1.00	0.00	H
ATOM	1796	CE1	PHE	X	309	41.300	106.632	135.915	1.00	0.00	C
ATOM	1797	HE1	PHE	X	309	40.976	107.662	135.874	1.00	0.00	H
ATOM	1798	CZ	PHE	X	309	41.089	105.926	137.094	1.00	0.00	C
ATOM	1799	HZ	PHE	X	309	40.584	106.469	137.879	1.00	0.00	H
ATOM	1800	CE2	PHE	X	309	41.645	104.603	137.145	1.00	0.00	C
ATOM	1801	HE2	PHE	X	309	41.647	104.028	138.060	1.00	0.00	H
ATOM	1802	CD2	PHE	X	309	42.369	104.116	136.026	1.00	0.00	C

ATOM	1803	HD2	PHE	X	309	42.888	103.172	135.956	1.00	0.00	H
ATOM	1804	C	PHE	X	309	43.094	103.129	131.316	1.00	0.00	C
ATOM	1805	O	PHE	X	309	43.790	102.156	131.608	1.00	0.00	O
ATOM	1806	N	PRO	X	310	43.012	103.424	130.018	1.00	0.00	N
ATOM	1807	CD	PRO	X	310	42.012	104.177	129.324	1.00	0.00	C
ATOM	1808	HD2	PRO	X	310	41.908	105.205	129.670	1.00	0.00	H
ATOM	1809	HD3	PRO	X	310	41.076	103.632	129.448	1.00	0.00	H
ATOM	1810	CG	PRO	X	310	42.356	104.247	127.836	1.00	0.00	C
ATOM	1811	HG2	PRO	X	310	42.905	105.129	127.505	1.00	0.00	H
ATOM	1812	HG3	PRO	X	310	41.482	104.074	127.210	1.00	0.00	H
ATOM	1813	CB	PRO	X	310	43.226	103.021	127.680	1.00	0.00	C
ATOM	1814	HB2	PRO	X	310	43.776	103.154	126.746	1.00	0.00	H
ATOM	1815	HB3	PRO	X	310	42.678	102.079	127.700	1.00	0.00	H
ATOM	1816	CA	PRO	X	310	43.999	103.063	129.016	1.00	0.00	C
ATOM	1817	HA	PRO	X	310	44.433	102.088	129.242	1.00	0.00	H
ATOM	1818	C	PRO	X	310	45.203	103.963	128.949	1.00	0.00	C
ATOM	1819	O	PRO	X	310	45.156	105.162	129.322	1.00	0.00	O
ATOM	1820	N	PHE	X	311	46.283	103.411	128.376	1.00	0.00	N
ATOM	1821	H	PHE	X	311	46.195	102.451	128.077	1.00	0.00	H
ATOM	1822	CA	PHE	X	311	47.602	103.967	128.243	1.00	0.00	C
ATOM	1823	HA	PHE	X	311	47.507	105.049	128.155	1.00	0.00	H
ATOM	1824	CB	PHE	X	311	48.423	103.685	129.495	1.00	0.00	C
ATOM	1825	HB2	PHE	X	311	48.566	102.606	129.477	1.00	0.00	H
ATOM	1826	HB3	PHE	X	311	49.376	104.215	129.495	1.00	0.00	H
ATOM	1827	CG	PHE	X	311	47.822	104.084	130.805	1.00	0.00	C
ATOM	1828	CD1	PHE	X	311	48.072	105.384	131.320	1.00	0.00	C
ATOM	1829	HD1	PHE	X	311	48.668	106.036	130.701	1.00	0.00	H
ATOM	1830	CE1	PHE	X	311	47.425	105.677	132.515	1.00	0.00	C
ATOM	1831	HE1	PHE	X	311	47.438	106.699	132.864	1.00	0.00	H
ATOM	1832	CZ	PHE	X	311	46.522	104.776	133.135	1.00	0.00	C
ATOM	1833	HZ	PHE	X	311	45.966	105.059	134.015	1.00	0.00	H
ATOM	1834	CE2	PHE	X	311	46.417	103.475	132.699	1.00	0.00	C
ATOM	1835	HE2	PHE	X	311	45.828	102.757	133.249	1.00	0.00	H
ATOM	1836	CD2	PHE	X	311	47.133	103.118	131.553	1.00	0.00	C
ATOM	1837	HD2	PHE	X	311	47.051	102.123	131.141	1.00	0.00	H
ATOM	1838	C	PHE	X	311	48.228	103.536	126.977	1.00	0.00	C
ATOM	1839	O	PHE	X	311	47.977	102.390	126.622	1.00	0.00	O
ATOM	1840	N	SER	X	312	49.131	104.371	126.449	1.00	0.00	N
ATOM	1841	H	SER	X	312	49.262	105.273	126.884	1.00	0.00	H
ATOM	1842	CA	SER	X	312	50.208	103.976	125.521	1.00	0.00	C
ATOM	1843	HA	SER	X	312	50.095	103.064	124.935	1.00	0.00	H
ATOM	1844	CB	SER	X	312	50.315	105.027	124.531	1.00	0.00	C
ATOM	1845	HB2	SER	X	312	49.397	104.980	123.944	1.00	0.00	H
ATOM	1846	HB3	SER	X	312	50.284	106.004	125.014	1.00	0.00	H
ATOM	1847	OG	SER	X	312	51.423	105.033	123.689	1.00	0.00	O
ATOM	1848	HG	SER	X	312	51.305	105.604	122.926	1.00	0.00	H
ATOM	1849	C	SER	X	312	51.522	103.883	126.363	1.00	0.00	C
ATOM	1850	O	SER	X	312	51.980	104.859	126.888	1.00	0.00	O
ATOM	1851	N	CYS	X	313	52.179	102.731	126.293	1.00	0.00	N
ATOM	1852	H	CYS	X	313	51.868	101.917	125.782	1.00	0.00	H
ATOM	1853	CA	CYS	X	313	53.496	102.550	126.821	1.00	0.00	C
ATOM	1854	HA	CYS	X	313	53.614	102.883	127.852	1.00	0.00	H
ATOM	1855	CB	CYS	X	313	53.750	101.011	126.823	1.00	0.00	C
ATOM	1856	HB2	CYS	X	313	54.201	100.708	125.879	1.00	0.00	H
ATOM	1857	HB3	CYS	X	313	54.592	100.759	127.467	1.00	0.00	H
ATOM	1858	SG	CYS	X	313	52.430	99.911	127.264	1.00	0.00	S
ATOM	1859	HG	CYS	X	313	51.532	100.142	126.302	1.00	0.00	H
ATOM	1860	C	CYS	X	313	54.678	103.349	126.120	1.00	0.00	C
ATOM	1861	O	CYS	X	313	55.473	103.962	126.826	1.00	0.00	O
ATOM	1862	N	ARG	X	314	54.579	103.515	124.830	1.00	0.00	N
ATOM	1863	H	ARG	X	314	53.962	102.839	124.402	1.00	0.00	H
ATOM	1864	CA	ARG	X	314	55.336	104.537	124.167	1.00	0.00	C
ATOM	1865	HA	ARG	X	314	56.407	104.365	124.273	1.00	0.00	H
ATOM	1866	CB	ARG	X	314	55.002	104.475	122.636	1.00	0.00	C
ATOM	1867	HB2	ARG	X	314	55.219	103.468	122.279	1.00	0.00	H
ATOM	1868	HB3	ARG	X	314	53.920	104.567	122.548	1.00	0.00	H
ATOM	1869	CG	ARG	X	314	55.822	105.463	121.740	1.00	0.00	C
ATOM	1870	HG2	ARG	X	314	55.435	106.471	121.889	1.00	0.00	H
ATOM	1871	HG3	ARG	X	314	56.821	105.546	122.167	1.00	0.00	H
ATOM	1872	CD	ARG	X	314	55.806	104.992	120.248	1.00	0.00	C
ATOM	1873	HD2	ARG	X	314	56.415	105.688	119.670	1.00	0.00	H
ATOM	1874	HD3	ARG	X	314	56.296	104.025	120.135	1.00	0.00	H
ATOM	1875	NE	ARG	X	314	54.459	105.045	119.685	1.00	0.00	N
ATOM	1876	HE	ARG	X	314	54.141	105.874	119.204	1.00	0.00	H
ATOM	1877	CZ	ARG	X	314	53.638	103.990	119.412	1.00	0.00	C
ATOM	1878	NH1	ARG	X	314	53.918	102.689	119.726	1.00	0.00	N
ATOM	1879	HH11	ARG	X	314	54.815	102.357	120.048	1.00	0.00	H
ATOM	1880	HH12	ARG	X	314	53.323	101.994	119.298	1.00	0.00	H
ATOM	1881	NH2	ARG	X	314	52.482	104.229	118.821	1.00	0.00	N
ATOM	1882	HH21	ARG	X	314	52.240	105.191	118.624	1.00	0.00	H
ATOM	1883	HH22	ARG	X	314	51.787	103.497	118.848	1.00	0.00	H
ATOM	1884	C	ARG	X	314	55.155	105.926	124.794	1.00	0.00	C

ATOM	1885	O	ARG	X	314	56.187	106.529	125.093	1.00	0.00	O
ATOM	1886	N	GLN	X	315	53.925	106.404	124.989	1.00	0.00	N
ATOM	1887	H	GLN	X	315	53.102	105.890	124.710	1.00	0.00	H
ATOM	1888	CA	GLN	X	315	53.827	107.774	125.602	1.00	0.00	C
ATOM	1889	HA	GLN	X	315	54.492	108.398	125.003	1.00	0.00	H
ATOM	1890	CB	GLN	X	315	52.402	108.322	125.697	1.00	0.00	C
ATOM	1891	HB2	GLN	X	315	51.899	107.513	126.227	1.00	0.00	H
ATOM	1892	HB3	GLN	X	315	52.453	109.272	126.228	1.00	0.00	H
ATOM	1893	CG	GLN	X	315	51.551	108.733	124.469	1.00	0.00	C
ATOM	1894	HG2	GLN	X	315	52.242	109.355	123.901	1.00	0.00	H
ATOM	1895	HG3	GLN	X	315	51.237	107.888	123.856	1.00	0.00	H
ATOM	1896	CD	GLN	X	315	50.271	109.533	124.749	1.00	0.00	C
ATOM	1897	OE1	GLN	X	315	49.180	109.034	124.778	1.00	0.00	O
ATOM	1898	NE2	GLN	X	315	50.425	110.737	125.129	1.00	0.00	N
ATOM	1899	HE21	GLN	X	315	49.582	111.182	125.463	1.00	0.00	H
ATOM	1900	HE22	GLN	X	315	51.344	111.152	125.090	1.00	0.00	H
ATOM	1901	C	GLN	X	315	54.499	107.768	127.024	1.00	0.00	C
ATOM	1902	O	GLN	X	315	55.195	108.690	127.359	1.00	0.00	O
ATOM	1903	N	LEU	X	316	54.368	106.758	127.811	1.00	0.00	N
ATOM	1904	H	LEU	X	316	53.716	106.082	127.439	1.00	0.00	H
ATOM	1905	CA	LEU	X	316	54.979	106.565	129.151	1.00	0.00	C
ATOM	1906	HA	LEU	X	316	54.877	107.524	129.660	1.00	0.00	H
ATOM	1907	CB	LEU	X	316	54.165	105.421	129.864	1.00	0.00	C
ATOM	1908	HB2	LEU	X	316	54.251	104.497	129.292	1.00	0.00	H
ATOM	1909	HB3	LEU	X	316	54.521	105.277	130.884	1.00	0.00	H
ATOM	1910	CG	LEU	X	316	52.673	105.798	130.053	1.00	0.00	C
ATOM	1911	HG	LEU	X	316	52.164	106.041	129.119	1.00	0.00	H
ATOM	1912	CD1	LEU	X	316	52.050	104.532	130.777	1.00	0.00	C
ATOM	1913	HD11	LEU	X	316	51.938	103.699	130.083	1.00	0.00	H
ATOM	1914	HD12	LEU	X	316	52.566	104.149	131.656	1.00	0.00	H
ATOM	1915	HD13	LEU	X	316	51.031	104.652	131.146	1.00	0.00	H
ATOM	1916	CD2	LEU	X	316	52.442	106.985	130.953	1.00	0.00	C
ATOM	1917	HD21	LEU	X	316	52.777	106.668	131.941	1.00	0.00	H
ATOM	1918	HD22	LEU	X	316	53.041	107.866	130.718	1.00	0.00	H
ATOM	1919	HD23	LEU	X	316	51.384	107.242	130.929	1.00	0.00	H
ATOM	1920	C	LEU	X	316	56.441	106.184	129.190	1.00	0.00	C
ATOM	1921	O	LEU	X	316	56.976	106.028	130.262	1.00	0.00	O
ATOM	1922	N	GLN	X	317	57.141	106.059	128.059	1.00	0.00	N
ATOM	1923	H	GLN	X	317	56.602	106.031	127.205	1.00	0.00	H
ATOM	1924	CA	GLN	X	317	58.608	105.904	127.876	1.00	0.00	C
ATOM	1925	HA	GLN	X	317	59.023	105.710	128.864	1.00	0.00	H
ATOM	1926	CB	GLN	X	317	58.871	104.554	127.085	1.00	0.00	C
ATOM	1927	HB2	GLN	X	317	58.336	103.773	127.625	1.00	0.00	H
ATOM	1928	HB3	GLN	X	317	58.441	104.721	126.098	1.00	0.00	H
ATOM	1929	CG	GLN	X	317	60.355	104.098	126.771	1.00	0.00	C
ATOM	1930	HG2	GLN	X	317	60.982	104.299	127.639	1.00	0.00	H
ATOM	1931	HG3	GLN	X	317	60.398	103.039	126.521	1.00	0.00	H
ATOM	1932	CD	GLN	X	317	61.087	104.940	125.660	1.00	0.00	C
ATOM	1933	OE1	GLN	X	317	60.523	105.289	124.634	1.00	0.00	O
ATOM	1934	NE2	GLN	X	317	62.269	105.384	126.003	1.00	0.00	N
ATOM	1935	HE21	GLN	X	317	62.809	105.960	125.374	1.00	0.00	H
ATOM	1936	HE22	GLN	X	317	62.708	105.142	126.881	1.00	0.00	H
ATOM	1937	C	GLN	X	317	59.267	107.169	127.191	1.00	0.00	C
ATOM	1938	O	GLN	X	317	60.320	107.630	127.726	1.00	0.00	O
ATOM	1939	N	CYS	X	318	58.637	107.724	126.141	1.00	0.00	N
ATOM	1940	H	CYS	X	318	57.854	107.177	125.810	1.00	0.00	H
ATOM	1941	CA	CYS	X	318	59.045	108.899	125.391	1.00	0.00	C
ATOM	1942	HA	CYS	X	318	60.110	108.843	125.161	1.00	0.00	H
ATOM	1943	CB	CYS	X	318	58.298	109.007	124.041	1.00	0.00	C
ATOM	1944	HB2	CYS	X	318	57.221	109.058	124.199	1.00	0.00	H
ATOM	1945	HB3	CYS	X	318	58.606	109.898	123.492	1.00	0.00	H
ATOM	1946	SG	CYS	X	318	58.764	107.564	123.082	1.00	0.00	S
ATOM	1947	HG	CYS	X	318	59.907	108.120	122.671	1.00	0.00	H
ATOM	1948	C	CYS	X	318	58.844	110.155	126.268	1.00	0.00	C
ATOM	1949	O	CYS	X	318	59.284	111.270	125.914	1.00	0.00	O
ATOM	1950	N	VAL	X	319	58.153	110.015	127.402	1.00	0.00	N
ATOM	1951	H	VAL	X	319	57.601	109.171	127.445	1.00	0.00	H
ATOM	1952	CA	VAL	X	319	57.958	111.103	128.425	1.00	0.00	C
ATOM	1953	HA	VAL	X	319	57.454	111.966	127.989	1.00	0.00	H
ATOM	1954	CB	VAL	X	319	57.090	110.577	129.576	1.00	0.00	C
ATOM	1955	HB	VAL	X	319	56.120	110.409	129.106	1.00	0.00	H
ATOM	1956	CG1	VAL	X	319	57.692	109.393	130.375	1.00	0.00	C
ATOM	1957	HG11	VAL	X	319	58.361	109.768	131.149	1.00	0.00	H
ATOM	1958	HG12	VAL	X	319	56.881	108.940	130.946	1.00	0.00	H
ATOM	1959	HG13	VAL	X	319	58.091	108.556	129.801	1.00	0.00	H
ATOM	1960	CG2	VAL	X	319	56.778	111.690	130.643	1.00	0.00	C
ATOM	1961	HG21	VAL	X	319	55.819	111.480	131.118	1.00	0.00	H
ATOM	1962	HG22	VAL	X	319	57.537	111.852	131.408	1.00	0.00	H
ATOM	1963	HG23	VAL	X	319	56.629	112.601	130.064	1.00	0.00	H
ATOM	1964	C	VAL	X	319	59.287	111.601	129.089	1.00	0.00	C
ATOM	1965	O	VAL	X	319	59.522	112.793	129.292	1.00	0.00	O
ATOM	1966	N	ALA	X	320	60.197	110.623	129.236	1.00	0.00	N

ATOM	1967	H	ALA	X	320	59.876	109.728	128.894	1.00	0.00	H
ATOM	1968	CA	ALA	X	320	61.557	110.678	129.644	1.00	0.00	C
ATOM	1969	HA	ALA	X	320	61.864	109.633	129.665	1.00	0.00	H
ATOM	1970	CB	ALA	X	320	62.337	111.402	128.580	1.00	0.00	C
ATOM	1971	HB1	ALA	X	320	63.356	111.090	128.801	1.00	0.00	H
ATOM	1972	HB2	ALA	X	320	62.152	111.178	127.531	1.00	0.00	H
ATOM	1973	HB3	ALA	X	320	62.118	112.471	128.582	1.00	0.00	H
ATOM	1974	C	ALA	X	320	61.947	111.044	131.128	1.00	0.00	C
ATOM	1975	O	ALA	X	320	63.019	110.729	131.657	1.00	0.00	O
ATOM	1976	N	ARG	X	321	61.054	111.853	131.735	1.00	0.00	N
ATOM	1977	H	ARG	X	321	60.091	111.957	131.448	1.00	0.00	H
ATOM	1978	CA	ARG	X	321	61.087	112.510	133.061	1.00	0.00	C
ATOM	1979	HA	ARG	X	321	62.093	112.204	133.349	1.00	0.00	H
ATOM	1980	CB	ARG	X	321	60.884	114.019	132.969	1.00	0.00	C
ATOM	1981	HB2	ARG	X	321	61.069	114.465	133.947	1.00	0.00	H
ATOM	1982	HB3	ARG	X	321	61.556	114.426	132.213	1.00	0.00	H
ATOM	1983	CG	ARG	X	321	59.435	114.375	132.540	1.00	0.00	C
ATOM	1984	HG2	ARG	X	321	59.082	113.846	131.654	1.00	0.00	H
ATOM	1985	HG3	ARG	X	321	58.714	114.135	133.322	1.00	0.00	H
ATOM	1986	CD	ARG	X	321	59.270	115.828	132.193	1.00	0.00	C
ATOM	1987	HD2	ARG	X	321	59.408	116.363	133.133	1.00	0.00	H
ATOM	1988	HD3	ARG	X	321	60.079	116.125	131.525	1.00	0.00	H
ATOM	1989	NE	ARG	X	321	57.898	116.103	131.666	1.00	0.00	N
ATOM	1990	HE	ARG	X	321	57.217	115.419	131.964	1.00	0.00	H
ATOM	1991	CZ	ARG	X	321	57.535	117.311	131.148	1.00	0.00	C
ATOM	1992	NH1	ARG	X	321	58.361	118.268	130.811	1.00	0.00	N
ATOM	1993	HH11	ARG	X	321	59.323	118.114	131.080	1.00	0.00	H
ATOM	1994	HH12	ARG	X	321	57.906	119.151	130.628	1.00	0.00	H
ATOM	1995	NH2	ARG	X	321	56.262	117.616	131.170	1.00	0.00	N
ATOM	1996	HH21	ARG	X	321	55.489	116.999	131.376	1.00	0.00	H
ATOM	1997	HH22	ARG	X	321	55.951	118.439	130.675	1.00	0.00	H
ATOM	1998	C	ARG	X	321	60.123	111.854	134.138	1.00	0.00	C
ATOM	1999	O	ARG	X	321	59.171	111.243	133.673	1.00	0.00	O
ATOM	2000	N	PRO	X	322	60.351	111.889	135.478	1.00	0.00	N
ATOM	2001	CD	PRO	X	322	61.247	112.830	136.255	1.00	0.00	C
ATOM	2002	HD2	PRO	X	322	61.073	113.876	136.004	1.00	0.00	H
ATOM	2003	HD3	PRO	X	322	62.254	112.546	135.951	1.00	0.00	H
ATOM	2004	CG	PRO	X	322	61.069	112.605	137.749	1.00	0.00	C
ATOM	2005	HG2	PRO	X	322	60.299	113.299	138.087	1.00	0.00	H
ATOM	2006	HG3	PRO	X	322	61.987	112.553	138.337	1.00	0.00	H
ATOM	2007	CB	PRO	X	322	60.336	111.237	137.777	1.00	0.00	C
ATOM	2008	HB2	PRO	X	322	59.649	111.088	138.611	1.00	0.00	H
ATOM	2009	HB3	PRO	X	322	61.196	110.572	137.844	1.00	0.00	H
ATOM	2010	CA	PRO	X	322	59.584	111.111	136.426	1.00	0.00	C
ATOM	2011	HA	PRO	X	322	59.553	110.060	136.141	1.00	0.00	H
ATOM	2012	C	PRO	X	322	58.162	111.583	136.558	1.00	0.00	C
ATOM	2013	O	PRO	X	322	57.854	112.738	136.330	1.00	0.00	O
ATOM	2014	N	LEU	X	323	57.246	110.695	137.062	1.00	0.00	N
ATOM	2015	H	LEU	X	323	57.555	109.754	137.262	1.00	0.00	H
ATOM	2016	CA	LEU	X	323	55.871	110.961	137.391	1.00	0.00	C
ATOM	2017	HA	LEU	X	323	55.779	111.987	137.748	1.00	0.00	H
ATOM	2018	CB	LEU	X	323	55.089	111.007	136.070	1.00	0.00	C
ATOM	2019	HB2	LEU	X	323	54.124	111.420	136.364	1.00	0.00	H
ATOM	2020	HB3	LEU	X	323	55.534	111.723	135.377	1.00	0.00	H
ATOM	2021	CG	LEU	X	323	55.088	109.752	135.254	1.00	0.00	C
ATOM	2022	HG	LEU	X	323	55.709	109.030	135.783	1.00	0.00	H
ATOM	2023	CD1	LEU	X	323	53.679	109.172	135.083	1.00	0.00	C
ATOM	2024	HD11	LEU	X	323	53.172	109.976	134.550	1.00	0.00	H
ATOM	2025	HD12	LEU	X	323	53.748	108.281	134.460	1.00	0.00	H
ATOM	2026	HD13	LEU	X	323	53.167	108.907	136.007	1.00	0.00	H
ATOM	2027	CD2	LEU	X	323	55.780	109.941	133.863	1.00	0.00	C
ATOM	2028	HD21	LEU	X	323	55.815	109.021	133.279	1.00	0.00	H
ATOM	2029	HD22	LEU	X	323	55.161	110.653	133.318	1.00	0.00	H
ATOM	2030	HD23	LEU	X	323	56.836	110.192	133.961	1.00	0.00	H
ATOM	2031	C	LEU	X	323	55.284	110.128	138.523	1.00	0.00	C
ATOM	2032	O	LEU	X	323	55.533	108.918	138.640	1.00	0.00	O
ATOM	2033	N	SER	X	324	54.493	110.723	139.399	1.00	0.00	N
ATOM	2034	H	SER	X	324	54.390	111.726	139.454	1.00	0.00	H
ATOM	2035	CA	SER	X	324	53.707	109.975	140.376	1.00	0.00	C
ATOM	2036	HA	SER	X	324	54.348	109.282	140.922	1.00	0.00	H
ATOM	2037	CB	SER	X	324	53.305	111.020	141.409	1.00	0.00	C
ATOM	2038	HB2	SER	X	324	52.687	110.517	142.154	1.00	0.00	H
ATOM	2039	HB3	SER	X	324	54.156	111.319	142.020	1.00	0.00	H
ATOM	2040	OG	SER	X	324	52.516	112.079	140.906	1.00	0.00	O
ATOM	2041	HG	SER	X	324	53.037	112.883	140.850	1.00	0.00	H
ATOM	2042	C	SER	X	324	52.376	109.325	139.826	1.00	0.00	C
ATOM	2043	O	SER	X	324	51.936	109.679	138.707	1.00	0.00	O
ATOM	2044	N	VAL	X	325	51.730	108.490	140.599	1.00	0.00	N
ATOM	2045	H	VAL	X	325	52.237	108.241	141.437	1.00	0.00	H
ATOM	2046	CA	VAL	X	325	50.358	107.939	140.379	1.00	0.00	C
ATOM	2047	HA	VAL	X	325	50.230	107.390	139.445	1.00	0.00	H
ATOM	2048	CB	VAL	X	325	50.038	106.879	141.353	1.00	0.00	C

ATOM	2049	HB	VAL	X	325	50.511	107.059	142.319	1.00	0.00	H
ATOM	2050	CG1	VAL	X	325	48.548	106.571	141.635	1.00	0.00	C
ATOM	2051	HG11	VAL	X	325	48.152	107.374	142.258	1.00	0.00	H
ATOM	2052	HG12	VAL	X	325	48.092	106.450	140.653	1.00	0.00	H
ATOM	2053	HG13	VAL	X	325	48.493	105.592	142.109	1.00	0.00	H
ATOM	2054	CG2	VAL	X	325	50.689	105.550	140.805	1.00	0.00	C
ATOM	2055	HG21	VAL	X	325	49.837	105.030	140.368	1.00	0.00	H
ATOM	2056	HG22	VAL	X	325	51.471	105.832	140.099	1.00	0.00	H
ATOM	2057	HG23	VAL	X	325	51.056	104.930	141.623	1.00	0.00	H
ATOM	2058	C	VAL	X	325	49.331	109.004	140.384	1.00	0.00	C
ATOM	2059	O	VAL	X	325	48.380	108.964	139.626	1.00	0.00	O
ATOM	2060	N	MET	X	326	49.435	109.975	141.312	1.00	0.00	N
ATOM	2061	H	MET	X	326	50.188	109.911	141.982	1.00	0.00	H
ATOM	2062	CA	MET	X	326	48.667	111.220	141.233	1.00	0.00	C
ATOM	2063	HA	MET	X	326	47.604	111.074	141.427	1.00	0.00	H
ATOM	2064	CB	MET	X	326	49.172	112.052	142.497	1.00	0.00	C
ATOM	2065	HB2	MET	X	326	48.892	111.469	143.374	1.00	0.00	H
ATOM	2066	HB3	MET	X	326	50.253	112.188	142.458	1.00	0.00	H
ATOM	2067	CG	MET	X	326	48.442	113.404	142.562	1.00	0.00	C
ATOM	2068	HG2	MET	X	326	48.805	114.015	141.736	1.00	0.00	H
ATOM	2069	HG3	MET	X	326	47.363	113.283	142.478	1.00	0.00	H
ATOM	2070	SD	MET	X	326	48.625	114.444	144.057	1.00	0.00	S
ATOM	2071	CE	MET	X	326	50.275	115.164	143.907	1.00	0.00	C
ATOM	2072	HE1	MET	X	326	50.964	114.344	143.704	1.00	0.00	H
ATOM	2073	HE2	MET	X	326	50.234	115.788	143.015	1.00	0.00	H
ATOM	2074	HE3	MET	X	326	50.502	115.780	144.778	1.00	0.00	H
ATOM	2075	C	MET	X	326	48.810	111.960	139.853	1.00	0.00	C
ATOM	2076	O	MET	X	326	47.811	112.389	139.376	1.00	0.00	O
ATOM	2077	N	THR	X	327	49.986	111.968	139.155	1.00	0.00	N
ATOM	2078	H	THR	X	327	50.870	111.762	139.598	1.00	0.00	H
ATOM	2079	CA	THR	X	327	50.036	112.375	137.774	1.00	0.00	C
ATOM	2080	HA	THR	X	327	49.401	113.258	137.709	1.00	0.00	H
ATOM	2081	CB	THR	X	327	51.448	112.899	137.389	1.00	0.00	C
ATOM	2082	HB	THR	X	327	52.143	112.130	137.728	1.00	0.00	H
ATOM	2083	CG2	THR	X	327	51.737	113.226	135.907	1.00	0.00	C
ATOM	2084	HG21	THR	X	327	52.816	113.376	135.854	1.00	0.00	H
ATOM	2085	HG22	THR	X	327	51.477	112.368	135.289	1.00	0.00	H
ATOM	2086	HG23	THR	X	327	51.129	114.100	135.675	1.00	0.00	H
ATOM	2087	OG1	THR	X	327	51.850	114.060	138.094	1.00	0.00	O
ATOM	2088	HG1	THR	X	327	51.320	114.786	137.759	1.00	0.00	H
ATOM	2089	C	THR	X	327	49.474	111.332	136.789	1.00	0.00	C
ATOM	2090	O	THR	X	327	48.725	111.696	135.877	1.00	0.00	O
ATOM	2091	N	LEU	X	328	49.872	110.045	136.880	1.00	0.00	N
ATOM	2092	H	LEU	X	328	50.633	109.860	137.518	1.00	0.00	H
ATOM	2093	CA	LEU	X	328	49.392	109.071	135.917	1.00	0.00	C
ATOM	2094	HA	LEU	X	328	49.952	109.336	135.019	1.00	0.00	H
ATOM	2095	CB	LEU	X	328	49.844	107.671	136.333	1.00	0.00	C
ATOM	2096	HB2	LEU	X	328	50.861	107.778	136.709	1.00	0.00	H
ATOM	2097	HB3	LEU	X	328	49.227	107.398	137.189	1.00	0.00	H
ATOM	2098	CG	LEU	X	328	49.770	106.492	135.260	1.00	0.00	C
ATOM	2099	HG	LEU	X	328	48.733	106.256	135.023	1.00	0.00	H
ATOM	2100	CD1	LEU	X	328	50.682	106.610	134.015	1.00	0.00	C
ATOM	2101	HD11	LEU	X	328	51.712	106.562	134.371	1.00	0.00	H
ATOM	2102	HD12	LEU	X	328	50.452	105.782	133.343	1.00	0.00	H
ATOM	2103	HD13	LEU	X	328	50.561	107.567	133.508	1.00	0.00	H
ATOM	2104	CD2	LEU	X	328	50.408	105.221	135.870	1.00	0.00	C
ATOM	2105	HD21	LEU	X	328	51.382	105.473	136.287	1.00	0.00	H
ATOM	2106	HD22	LEU	X	328	49.747	104.885	136.669	1.00	0.00	H
ATOM	2107	HD23	LEU	X	328	50.521	104.352	135.221	1.00	0.00	H
ATOM	2108	C	LEU	X	328	47.879	108.980	135.637	1.00	0.00	C
ATOM	2109	O	LEU	X	328	47.485	108.758	134.496	1.00	0.00	O
ATOM	2110	N	LEU	X	329	47.080	109.178	136.696	1.00	0.00	N
ATOM	2111	H	LEU	X	329	47.520	109.456	137.562	1.00	0.00	H
ATOM	2112	CA	LEU	X	329	45.590	109.126	136.558	1.00	0.00	C
ATOM	2113	HA	LEU	X	329	45.193	108.416	135.834	1.00	0.00	H
ATOM	2114	CB	LEU	X	329	45.008	108.652	137.947	1.00	0.00	C
ATOM	2115	HB2	LEU	X	329	45.330	109.387	138.684	1.00	0.00	H
ATOM	2116	HB3	LEU	X	329	43.920	108.717	137.988	1.00	0.00	H
ATOM	2117	CG	LEU	X	329	45.500	107.370	138.511	1.00	0.00	C
ATOM	2118	HG	LEU	X	329	46.584	107.406	138.618	1.00	0.00	H
ATOM	2119	CD1	LEU	X	329	44.741	106.905	139.805	1.00	0.00	C
ATOM	2120	HD11	LEU	X	329	43.680	106.801	139.574	1.00	0.00	H
ATOM	2121	HD12	LEU	X	329	45.120	105.905	140.009	1.00	0.00	H
ATOM	2122	HD13	LEU	X	329	45.017	107.571	140.623	1.00	0.00	H
ATOM	2123	CD2	LEU	X	329	45.216	106.324	137.445	1.00	0.00	C
ATOM	2124	HD21	LEU	X	329	45.291	105.361	137.949	1.00	0.00	H
ATOM	2125	HD22	LEU	X	329	44.262	106.397	136.922	1.00	0.00	H
ATOM	2126	HD23	LEU	X	329	45.942	106.343	136.632	1.00	0.00	H
ATOM	2127	C	LEU	X	329	45.100	110.574	136.219	1.00	0.00	C
ATOM	2128	O	LEU	X	329	44.470	110.742	135.166	1.00	0.00	O
ATOM	2129	N	PHE	X	330	45.484	111.644	136.947	1.00	0.00	N
ATOM	2130	H	PHE	X	330	46.190	111.510	137.658	1.00	0.00	H

ATOM	2131	CA	PHE	X	330	44.750	112.890	136.992	1.00	0.00		C
ATOM	2132	HA	PHE	X	330	43.761	112.638	136.608	1.00	0.00		H
ATOM	2133	CB	PHE	X	330	44.553	113.330	138.479	1.00	0.00		C
ATOM	2134	HB2	PHE	X	330	45.539	113.612	138.850	1.00	0.00		H
ATOM	2135	HB3	PHE	X	330	43.904	114.201	138.400	1.00	0.00		H
ATOM	2136	CG	PHE	X	330	43.998	112.247	139.334	1.00	0.00		C
ATOM	2137	CD1	PHE	X	330	42.705	111.838	139.137	1.00	0.00		C
ATOM	2138	HD1	PHE	X	330	42.216	112.292	138.288	1.00	0.00		H
ATOM	2139	CE1	PHE	X	330	42.238	110.780	139.955	1.00	0.00		C
ATOM	2140	HE1	PHE	X	330	41.279	110.294	139.854	1.00	0.00		H
ATOM	2141	CZ	PHE	X	330	43.063	110.185	140.919	1.00	0.00		C
ATOM	2142	HZ	PHE	X	330	42.724	109.289	141.417	1.00	0.00		H
ATOM	2143	CE2	PHE	X	330	44.403	110.587	141.049	1.00	0.00		C
ATOM	2144	HE2	PHE	X	330	45.011	110.141	141.822	1.00	0.00		H
ATOM	2145	CD2	PHE	X	330	44.811	111.682	140.298	1.00	0.00		C
ATOM	2146	HD2	PHE	X	330	45.788	112.128	140.414	1.00	0.00		H
ATOM	2147	C	PHE	X	330	45.220	113.940	136.019	1.00	0.00		C
ATOM	2148	O	PHE	X	330	44.425	114.777	135.601	1.00	0.00		O
ATOM	2149	N	GLU	X	331	46.510	113.929	135.685	1.00	0.00		N
ATOM	2150	H	GLU	X	331	47.081	113.244	136.159	1.00	0.00		H
ATOM	2151	CA	GLU	X	331	47.173	114.834	134.755	1.00	0.00		C
ATOM	2152	HA	GLU	X	331	46.611	115.747	134.557	1.00	0.00		H
ATOM	2153	CB	GLU	X	331	48.498	115.266	135.448	1.00	0.00		C
ATOM	2154	HB2	GLU	X	331	49.079	114.345	135.528	1.00	0.00		H
ATOM	2155	HB3	GLU	X	331	49.037	115.892	134.736	1.00	0.00		H
ATOM	2156	CG	GLU	X	331	48.315	115.963	136.734	1.00	0.00		C
ATOM	2157	HG2	GLU	X	331	47.487	116.656	136.582	1.00	0.00		H
ATOM	2158	HG3	GLU	X	331	48.160	115.212	137.508	1.00	0.00		H
ATOM	2159	CD	GLU	X	331	49.678	116.709	136.986	1.00	0.00		C
ATOM	2160	OE1	GLU	X	331	50.476	116.107	137.729	1.00	0.00		O
ATOM	2161	OE2	GLU	X	331	49.822	117.909	136.603	1.00	0.00		O
ATOM	2162	C	GLU	X	331	47.453	114.161	133.358	1.00	0.00		C
ATOM	2163	O	GLU	X	331	47.421	114.791	132.331	1.00	0.00		O
ATOM	2164	N	HIE	X	332	47.690	112.879	133.380	1.00	0.00		N
ATOM	2165	H	HIE	X	332	47.848	112.311	134.199	1.00	0.00		H
ATOM	2166	CA	HIE	X	332	47.980	112.226	132.120	1.00	0.00		C
ATOM	2167	HA	HIE	X	332	48.392	112.929	131.397	1.00	0.00		H
ATOM	2168	CB	HIE	X	332	49.003	111.150	132.390	1.00	0.00		C
ATOM	2169	HB2	HIE	X	332	50.001	111.534	132.603	1.00	0.00		H
ATOM	2170	HB3	HIE	X	332	48.656	110.566	133.241	1.00	0.00		H
ATOM	2171	CG	HIE	X	332	49.147	110.269	131.145	1.00	0.00		C
ATOM	2172	ND1	HIE	X	332	50.153	110.295	130.152	1.00	0.00		N
ATOM	2173	CE1	HIE	X	332	49.845	109.309	129.300	1.00	0.00		C
ATOM	2174	HE1	HIE	X	332	50.325	109.050	128.369	1.00	0.00		H
ATOM	2175	NE2	HIE	X	332	48.740	108.704	129.744	1.00	0.00		N
ATOM	2176	HE2	HIE	X	332	48.211	108.095	129.138	1.00	0.00		H
ATOM	2177	CD2	HIE	X	332	48.317	109.245	130.887	1.00	0.00		C
ATOM	2178	HD2	HIE	X	332	47.471	108.971	131.499	1.00	0.00		H
ATOM	2179	C	HIE	X	332	46.655	111.657	131.480	1.00	0.00		C
ATOM	2180	O	HIE	X	332	46.402	111.921	130.298	1.00	0.00		O
ATOM	2181	N	CYS	X	333	45.732	110.995	132.254	1.00	0.00		N
ATOM	2182	H	CYS	X	333	46.020	110.773	133.197	1.00	0.00		H
ATOM	2183	CA	CYS	X	333	44.354	110.543	131.861	1.00	0.00		C
ATOM	2184	HA	CYS	X	333	44.547	110.426	130.795	1.00	0.00		H
ATOM	2185	CB	CYS	X	333	43.970	109.151	132.437	1.00	0.00		C
ATOM	2186	HB2	CYS	X	333	44.842	108.498	132.476	1.00	0.00		H
ATOM	2187	HB3	CYS	X	333	43.465	109.177	133.404	1.00	0.00		H
ATOM	2188	SG	CYS	X	333	42.698	108.306	131.385	1.00	0.00		S
ATOM	2189	HG	CYS	X	333	43.154	108.741	130.206	1.00	0.00		H
ATOM	2190	C	CYS	X	333	43.146	111.530	132.009	1.00	0.00		C
ATOM	2191	O	CYS	X	333	42.734	112.126	130.972	1.00	0.00		O
ATOM	2192	N	CYS	X	334	42.583	111.795	133.201	1.00	0.00		N
ATOM	2193	H	CYS	X	334	42.892	111.289	134.018	1.00	0.00		H
ATOM	2194	CA	CYS	X	334	41.372	112.599	133.259	1.00	0.00		C
ATOM	2195	HA	CYS	X	334	41.424	113.413	132.535	1.00	0.00		H
ATOM	2196	CB	CYS	X	334	40.171	111.768	133.040	1.00	0.00		C
ATOM	2197	HB2	CYS	X	334	40.249	111.254	132.082	1.00	0.00		H
ATOM	2198	HB3	CYS	X	334	40.070	111.091	133.889	1.00	0.00		H
ATOM	2199	SG	CYS	X	334	38.697	112.907	132.889	1.00	0.00		S
ATOM	2200	HG	CYS	X	334	39.193	113.699	131.934	1.00	0.00		H
ATOM	2201	C	CYS	X	334	41.309	113.258	134.632	1.00	0.00		C
ATOM	2202	O	CYS	X	334	41.183	112.577	135.629	1.00	0.00		O
ATOM	2203	N	TRP	X	335	41.318	114.599	134.695	1.00	0.00		N
ATOM	2204	H	TRP	X	335	41.457	115.144	133.855	1.00	0.00		H
ATOM	2205	CA	TRP	X	335	41.251	115.438	135.804	1.00	0.00		C
ATOM	2206	HA	TRP	X	335	42.088	115.095	136.413	1.00	0.00		H
ATOM	2207	CB	TRP	X	335	41.694	116.814	135.401	1.00	0.00		C
ATOM	2208	HB2	TRP	X	335	42.653	116.741	134.887	1.00	0.00		H
ATOM	2209	HB3	TRP	X	335	40.927	117.223	134.744	1.00	0.00		H
ATOM	2210	CG	TRP	X	335	41.925	117.790	136.514	1.00	0.00		C
ATOM	2211	CD1	TRP	X	335	40.929	118.586	136.952	1.00	0.00		C
ATOM	2212	HD1	TRP	X	335	39.929	118.469	136.562	1.00	0.00		H

ATOM	2213	NE1	TRP	X	335	41.375	119.459	137.911	1.00	0.00	N
ATOM	2214	HE1	TRP	X	335	40.909	120.311	138.191	1.00	0.00	H
ATOM	2215	CE2	TRP	X	335	42.675	119.234	138.225	1.00	0.00	C
ATOM	2216	CZ2	TRP	X	335	43.557	119.755	139.208	1.00	0.00	C
ATOM	2217	HZ2	TRP	X	335	43.162	120.614	139.730	1.00	0.00	H
ATOM	2218	CH2	TRP	X	335	44.813	119.116	139.455	1.00	0.00	C
ATOM	2219	HH2	TRP	X	335	45.472	119.508	140.215	1.00	0.00	H
ATOM	2220	CZ3	TRP	X	335	45.239	118.028	138.633	1.00	0.00	C
ATOM	2221	HZ3	TRP	X	335	46.239	117.645	138.769	1.00	0.00	H
ATOM	2222	CE3	TRP	X	335	44.388	117.585	137.565	1.00	0.00	C
ATOM	2223	HE3	TRP	X	335	44.742	116.963	136.755	1.00	0.00	H
ATOM	2224	CD2	TRP	X	335	43.084	118.121	137.410	1.00	0.00	C
ATOM	2225	C	TRP	X	335	39.786	115.360	136.374	1.00	0.00	C
ATOM	2226	O	TRP	X	335	38.851	115.427	135.509	1.00	0.00	O
ATOM	2227	N	PRO	X	336	39.614	115.306	137.702	1.00	0.00	N
ATOM	2228	CD	PRO	X	336	40.537	114.611	138.554	1.00	0.00	C
ATOM	2229	HD2	PRO	X	336	41.312	115.228	139.010	1.00	0.00	H
ATOM	2230	HD3	PRO	X	336	41.036	113.834	137.973	1.00	0.00	H
ATOM	2231	CG	PRO	X	336	39.637	113.844	139.570	1.00	0.00	C
ATOM	2232	HG2	PRO	X	336	40.302	113.632	140.408	1.00	0.00	H
ATOM	2233	HG3	PRO	X	336	39.098	112.998	139.143	1.00	0.00	H
ATOM	2234	CB	PRO	X	336	38.508	114.818	139.768	1.00	0.00	C
ATOM	2235	HB2	PRO	X	336	38.784	115.628	140.443	1.00	0.00	H
ATOM	2236	HB3	PRO	X	336	37.611	114.271	140.057	1.00	0.00	H
ATOM	2237	CA	PRO	X	336	38.280	115.473	138.396	1.00	0.00	C
ATOM	2238	HA	PRO	X	336	37.650	114.753	137.871	1.00	0.00	H
ATOM	2239	C	PRO	X	336	37.761	116.903	138.366	1.00	0.00	C
ATOM	2240	O	PRO	X	336	38.453	117.810	138.769	1.00	0.00	O
ATOM	2241	N	ASP	X	337	36.531	117.122	138.091	1.00	0.00	N
ATOM	2242	H	ASP	X	337	36.028	116.363	137.655	1.00	0.00	H
ATOM	2243	CA	ASP	X	337	35.823	118.445	137.994	1.00	0.00	C
ATOM	2244	HA	ASP	X	337	36.600	119.106	137.611	1.00	0.00	H
ATOM	2245	CB	ASP	X	337	34.653	118.281	136.974	1.00	0.00	C
ATOM	2246	HB2	ASP	X	337	34.175	117.306	137.055	1.00	0.00	H
ATOM	2247	HB3	ASP	X	337	33.841	118.979	137.176	1.00	0.00	H
ATOM	2248	CG	ASP	X	337	35.118	118.404	135.528	1.00	0.00	C
ATOM	2249	OD1	ASP	X	337	36.167	118.996	135.309	1.00	0.00	O
ATOM	2250	OD2	ASP	X	337	34.324	118.029	134.561	1.00	0.00	O
ATOM	2251	C	ASP	X	337	35.407	118.990	139.378	1.00	0.00	C
ATOM	2252	O	ASP	X	337	35.322	120.188	139.558	1.00	0.00	O
ATOM	2253	N	VAL	X	338	35.210	118.115	140.356	1.00	0.00	N
ATOM	2254	H	VAL	X	338	35.281	117.130	140.145	1.00	0.00	H
ATOM	2255	CA	VAL	X	338	34.643	118.402	141.662	1.00	0.00	C
ATOM	2256	HA	VAL	X	338	35.054	119.321	142.082	1.00	0.00	H
ATOM	2257	CB	VAL	X	338	33.101	118.574	141.605	1.00	0.00	C
ATOM	2258	HB	VAL	X	338	32.931	119.425	140.946	1.00	0.00	H
ATOM	2259	CG1	VAL	X	338	32.345	117.344	141.019	1.00	0.00	C
ATOM	2260	HG11	VAL	X	338	32.729	117.119	140.024	1.00	0.00	H
ATOM	2261	HG12	VAL	X	338	32.384	116.371	141.506	1.00	0.00	H
ATOM	2262	HG13	VAL	X	338	31.303	117.666	141.006	1.00	0.00	H
ATOM	2263	CG2	VAL	X	338	32.502	119.016	142.933	1.00	0.00	C
ATOM	2264	HG21	VAL	X	338	32.606	118.207	143.656	1.00	0.00	H
ATOM	2265	HG22	VAL	X	338	32.992	119.898	143.347	1.00	0.00	H
ATOM	2266	HG23	VAL	X	338	31.440	119.220	142.792	1.00	0.00	H
ATOM	2267	C	VAL	X	338	34.998	117.307	142.685	1.00	0.00	C
ATOM	2268	O	VAL	X	338	35.060	116.125	142.345	1.00	0.00	O
ATOM	2269	N	GLY	X	339	35.265	117.617	143.993	1.00	0.00	N
ATOM	2270	H	GLY	X	339	35.323	118.612	144.159	1.00	0.00	H
ATOM	2271	CA	GLY	X	339	35.604	116.625	145.033	1.00	0.00	C
ATOM	2272	HA2	GLY	X	339	35.524	117.154	145.983	1.00	0.00	H
ATOM	2273	HA3	GLY	X	339	34.878	115.819	145.145	1.00	0.00	H
ATOM	2274	C	GLY	X	339	36.994	115.917	144.952	1.00	0.00	C
ATOM	2275	O	GLY	X	339	37.131	114.809	145.475	1.00	0.00	O
ATOM	2276	N	GLN	X	340	37.981	116.527	144.270	1.00	0.00	N
ATOM	2277	H	GLN	X	340	37.746	117.463	143.971	1.00	0.00	H
ATOM	2278	CA	GLN	X	340	39.177	115.762	143.765	1.00	0.00	C
ATOM	2279	HA	GLN	X	340	38.793	115.015	143.071	1.00	0.00	H
ATOM	2280	CB	GLN	X	340	40.186	116.721	143.101	1.00	0.00	C
ATOM	2281	HB2	GLN	X	340	39.669	117.314	142.347	1.00	0.00	H
ATOM	2282	HB3	GLN	X	340	40.569	117.378	143.884	1.00	0.00	H
ATOM	2283	CG	GLN	X	340	41.360	116.007	142.385	1.00	0.00	C
ATOM	2284	HG2	GLN	X	340	42.068	115.670	143.141	1.00	0.00	H
ATOM	2285	HG3	GLN	X	340	41.032	115.216	141.708	1.00	0.00	H
ATOM	2286	CD	GLN	X	340	42.192	117.017	141.614	1.00	0.00	C
ATOM	2287	OE1	GLN	X	340	41.899	118.181	141.625	1.00	0.00	O
ATOM	2288	NE2	GLN	X	340	43.380	116.653	141.149	1.00	0.00	N
ATOM	2289	HE21	GLN	X	340	43.929	117.469	140.915	1.00	0.00	H
ATOM	2290	HE22	GLN	X	340	43.702	115.722	141.367	1.00	0.00	H
ATOM	2291	C	GLN	X	340	39.958	114.884	144.771	1.00	0.00	C
ATOM	2292	O	GLN	X	340	40.376	113.718	144.450	1.00	0.00	O
ATOM	2293	N	GLN	X	341	40.099	115.354	146.044	1.00	0.00	N
ATOM	2294	H	GLN	X	341	39.657	116.252	146.179	1.00	0.00	H

ATOM	2295	CA	GLN	X	341	40.830	114.628	147.049	1.00	0.00	C
ATOM	2296	HA	GLN	X	341	41.666	114.095	146.596	1.00	0.00	H
ATOM	2297	CB	GLN	X	341	41.582	115.567	148.020	1.00	0.00	C
ATOM	2298	HB2	GLN	X	341	40.970	116.433	148.270	1.00	0.00	H
ATOM	2299	HB3	GLN	X	341	41.843	114.975	148.897	1.00	0.00	H
ATOM	2300	CG	GLN	X	341	42.742	116.367	147.547	1.00	0.00	C
ATOM	2301	HG2	GLN	X	341	42.558	117.121	146.779	1.00	0.00	H
ATOM	2302	HG3	GLN	X	341	43.105	116.977	148.375	1.00	0.00	H
ATOM	2303	CD	GLN	X	341	43.913	115.558	146.957	1.00	0.00	C
ATOM	2304	OE1	GLN	X	341	44.373	114.533	147.475	1.00	0.00	O
ATOM	2305	NE2	GLN	X	341	44.560	115.929	145.901	1.00	0.00	N
ATOM	2306	HE21	GLN	X	341	45.005	115.210	145.349	1.00	0.00	H
ATOM	2307	HE22	GLN	X	341	44.195	116.752	145.443	1.00	0.00	H
ATOM	2308	C	GLN	X	341	40.031	113.614	147.685	1.00	0.00	C
ATOM	2309	O	GLN	X	341	40.541	112.498	147.746	1.00	0.00	O
ATOM	2310	N	ASP	X	342	38.735	113.851	148.074	1.00	0.00	N
ATOM	2311	H	ASP	X	342	38.436	114.807	147.939	1.00	0.00	H
ATOM	2312	CA	ASP	X	342	37.851	112.853	148.640	1.00	0.00	C
ATOM	2313	HA	ASP	X	342	38.401	112.394	149.463	1.00	0.00	H
ATOM	2314	CB	ASP	X	342	36.541	113.490	149.208	1.00	0.00	C
ATOM	2315	HB2	ASP	X	342	36.141	114.088	148.389	1.00	0.00	H
ATOM	2316	HB3	ASP	X	342	35.779	112.734	149.393	1.00	0.00	H
ATOM	2317	CG	ASP	X	342	36.791	114.413	150.362	1.00	0.00	C
ATOM	2318	OD1	ASP	X	342	37.076	115.551	150.082	1.00	0.00	O
ATOM	2319	OD2	ASP	X	342	36.857	113.910	151.512	1.00	0.00	O
ATOM	2320	C	ASP	X	342	37.649	111.764	147.550	1.00	0.00	C
ATOM	2321	O	ASP	X	342	37.631	110.570	147.899	1.00	0.00	O
ATOM	2322	N	VAL	X	343	37.490	112.068	146.226	1.00	0.00	N
ATOM	2323	H	VAL	X	343	37.428	113.034	145.936	1.00	0.00	H
ATOM	2324	CA	VAL	X	343	37.243	111.063	145.172	1.00	0.00	C
ATOM	2325	HA	VAL	X	343	36.495	110.407	145.618	1.00	0.00	H
ATOM	2326	CB	VAL	X	343	36.649	111.668	143.878	1.00	0.00	C
ATOM	2327	HB	VAL	X	343	37.392	112.364	143.490	1.00	0.00	H
ATOM	2328	CG1	VAL	X	343	36.467	110.525	142.829	1.00	0.00	C
ATOM	2329	HG11	VAL	X	343	37.474	110.315	142.466	1.00	0.00	H
ATOM	2330	HG12	VAL	X	343	36.152	109.605	143.323	1.00	0.00	H
ATOM	2331	HG13	VAL	X	343	35.852	110.844	141.989	1.00	0.00	H
ATOM	2332	CG2	VAL	X	343	35.291	112.344	144.060	1.00	0.00	C
ATOM	2333	HG21	VAL	X	343	34.540	111.558	144.129	1.00	0.00	H
ATOM	2334	HG22	VAL	X	343	35.244	112.884	145.007	1.00	0.00	H
ATOM	2335	HG23	VAL	X	343	34.957	112.956	143.224	1.00	0.00	H
ATOM	2336	C	VAL	X	343	38.541	110.179	144.955	1.00	0.00	C
ATOM	2337	O	VAL	X	343	38.437	108.941	144.853	1.00	0.00	O
ATOM	2338	N	PHE	X	344	39.758	110.775	145.040	1.00	0.00	N
ATOM	2339	H	PHE	X	344	39.819	111.771	144.883	1.00	0.00	H
ATOM	2340	CA	PHE	X	344	40.985	109.983	144.999	1.00	0.00	C
ATOM	2341	HA	PHE	X	344	40.921	109.382	144.093	1.00	0.00	H
ATOM	2342	CB	PHE	X	344	42.184	110.941	144.775	1.00	0.00	C
ATOM	2343	HB2	PHE	X	344	42.129	111.699	143.994	1.00	0.00	H
ATOM	2344	HB3	PHE	X	344	42.152	111.640	145.610	1.00	0.00	H
ATOM	2345	CG	PHE	X	344	43.542	110.275	144.700	1.00	0.00	C
ATOM	2346	CD1	PHE	X	344	43.750	108.995	144.183	1.00	0.00	C
ATOM	2347	HD1	PHE	X	344	42.938	108.320	143.959	1.00	0.00	H
ATOM	2348	CE1	PHE	X	344	45.072	108.530	143.909	1.00	0.00	C
ATOM	2349	HE1	PHE	X	344	45.268	107.572	143.449	1.00	0.00	H
ATOM	2350	CZ	PHE	X	344	46.194	109.378	144.062	1.00	0.00	C
ATOM	2351	HZ	PHE	X	344	47.154	109.036	143.708	1.00	0.00	H
ATOM	2352	CE2	PHE	X	344	45.997	110.623	144.655	1.00	0.00	C
ATOM	2353	HE2	PHE	X	344	46.828	111.245	144.954	1.00	0.00	H
ATOM	2354	CD2	PHE	X	344	44.684	111.078	144.870	1.00	0.00	C
ATOM	2355	HD2	PHE	X	344	44.600	112.099	145.215	1.00	0.00	H
ATOM	2356	C	PHE	X	344	41.114	109.149	146.223	1.00	0.00	C
ATOM	2357	O	PHE	X	344	41.540	107.967	146.101	1.00	0.00	O
ATOM	2358	N	GLN	X	345	40.717	109.605	147.440	1.00	0.00	N
ATOM	2359	H	GLN	X	345	40.414	110.558	147.590	1.00	0.00	H
ATOM	2360	CA	GLN	X	345	40.654	108.740	148.664	1.00	0.00	C
ATOM	2361	HA	GLN	X	345	41.558	108.273	149.054	1.00	0.00	H
ATOM	2362	CB	GLN	X	345	40.123	109.601	149.859	1.00	0.00	C
ATOM	2363	HB2	GLN	X	345	40.980	110.257	150.012	1.00	0.00	H
ATOM	2364	HB3	GLN	X	345	39.276	110.204	149.533	1.00	0.00	H
ATOM	2365	CG	GLN	X	345	39.816	108.963	151.212	1.00	0.00	C
ATOM	2366	HG2	GLN	X	345	38.837	108.490	151.119	1.00	0.00	H
ATOM	2367	HG3	GLN	X	345	40.589	108.287	151.576	1.00	0.00	H
ATOM	2368	CD	GLN	X	345	39.816	109.974	152.374	1.00	0.00	C
ATOM	2369	OE1	GLN	X	345	39.418	111.160	152.225	1.00	0.00	O
ATOM	2370	NE2	GLN	X	345	40.217	109.602	153.581	1.00	0.00	N
ATOM	2371	HE21	GLN	X	345	39.874	110.128	154.372	1.00	0.00	H
ATOM	2372	HE22	GLN	X	345	40.612	108.678	153.672	1.00	0.00	H
ATOM	2373	C	GLN	X	345	39.778	107.510	148.440	1.00	0.00	C
ATOM	2374	O	GLN	X	345	40.158	106.404	148.793	1.00	0.00	O
ATOM	2375	N	PHE	X	346	38.634	107.674	147.794	1.00	0.00	N
ATOM	2376	H	PHE	X	346	38.419	108.611	147.487	1.00	0.00	H

ATOM	2377	CA	PHE	X	346	37.721	106.565	147.493	1.00	0.00	C
ATOM	2378	HA	PHE	X	346	37.555	106.043	148.435	1.00	0.00	H
ATOM	2379	CB	PHE	X	346	36.357	107.118	147.092	1.00	0.00	C
ATOM	2380	HB2	PHE	X	346	36.067	107.985	147.685	1.00	0.00	H
ATOM	2381	HB3	PHE	X	346	36.301	107.464	146.060	1.00	0.00	H
ATOM	2382	CG	PHE	X	346	35.408	105.993	147.202	1.00	0.00	C
ATOM	2383	CD1	PHE	X	346	34.572	105.856	148.333	1.00	0.00	C
ATOM	2384	HD1	PHE	X	346	34.632	106.618	149.095	1.00	0.00	H
ATOM	2385	CE1	PHE	X	346	33.631	104.822	148.390	1.00	0.00	C
ATOM	2386	HE1	PHE	X	346	32.887	104.791	149.172	1.00	0.00	H
ATOM	2387	CZ	PHE	X	346	33.526	103.855	147.385	1.00	0.00	C
ATOM	2388	HZ	PHE	X	346	32.764	103.103	147.247	1.00	0.00	H
ATOM	2389	CE2	PHE	X	346	34.392	103.977	146.249	1.00	0.00	C
ATOM	2390	HE2	PHE	X	346	34.331	103.221	145.480	1.00	0.00	H
ATOM	2391	CD2	PHE	X	346	35.253	105.096	146.104	1.00	0.00	C
ATOM	2392	HD2	PHE	X	346	35.919	105.136	145.254	1.00	0.00	H
ATOM	2393	C	PHE	X	346	38.326	105.575	146.513	1.00	0.00	C
ATOM	2394	O	PHE	X	346	38.153	104.380	146.596	1.00	0.00	O
ATOM	2395	N	LEU	X	347	39.155	106.132	145.590	1.00	0.00	N
ATOM	2396	H	LEU	X	347	38.982	107.067	145.252	1.00	0.00	H
ATOM	2397	CA	LEU	X	347	39.946	105.379	144.594	1.00	0.00	C
ATOM	2398	HA	LEU	X	347	39.292	104.745	143.995	1.00	0.00	H
ATOM	2399	CB	LEU	X	347	40.549	106.405	143.536	1.00	0.00	C
ATOM	2400	HB2	LEU	X	347	39.686	106.996	143.231	1.00	0.00	H
ATOM	2401	HB3	LEU	X	347	41.346	107.027	143.945	1.00	0.00	H
ATOM	2402	CG	LEU	X	347	41.240	105.581	142.347	1.00	0.00	C
ATOM	2403	HG	LEU	X	347	40.864	104.558	142.329	1.00	0.00	H
ATOM	2404	CD1	LEU	X	347	40.867	106.220	140.999	1.00	0.00	C
ATOM	2405	HD11	LEU	X	347	41.332	107.204	141.084	1.00	0.00	H
ATOM	2406	HD12	LEU	X	347	41.389	105.660	140.224	1.00	0.00	H
ATOM	2407	HD13	LEU	X	347	39.829	106.130	140.683	1.00	0.00	H
ATOM	2408	CD2	LEU	X	347	42.770	105.551	142.554	1.00	0.00	C
ATOM	2409	HD21	LEU	X	347	43.272	106.515	142.642	1.00	0.00	H
ATOM	2410	HD22	LEU	X	347	42.971	105.143	143.545	1.00	0.00	H
ATOM	2411	HD23	LEU	X	347	43.291	104.890	141.862	1.00	0.00	H
ATOM	2412	C	LEU	X	347	41.009	104.526	145.141	1.00	0.00	C
ATOM	2413	O	LEU	X	347	41.021	103.341	144.838	1.00	0.00	O
ATOM	2414	N	LEU	X	348	41.743	105.016	146.192	1.00	0.00	N
ATOM	2415	H	LEU	X	348	41.548	105.944	146.539	1.00	0.00	H
ATOM	2416	CA	LEU	X	348	42.692	104.199	146.929	1.00	0.00	C
ATOM	2417	HA	LEU	X	348	43.232	103.462	146.334	1.00	0.00	H
ATOM	2418	CB	LEU	X	348	43.706	105.090	147.552	1.00	0.00	C
ATOM	2419	HB2	LEU	X	348	43.278	105.897	148.150	1.00	0.00	H
ATOM	2420	HB3	LEU	X	348	44.242	104.457	148.260	1.00	0.00	H
ATOM	2421	CG	LEU	X	348	44.754	105.614	146.615	1.00	0.00	C
ATOM	2422	HG	LEU	X	348	44.175	106.283	145.978	1.00	0.00	H
ATOM	2423	CD1	LEU	X	348	45.730	106.488	147.364	1.00	0.00	C
ATOM	2424	HD11	LEU	X	348	46.295	107.097	146.658	1.00	0.00	H
ATOM	2425	HD12	LEU	X	348	45.215	107.244	147.957	1.00	0.00	H
ATOM	2426	HD13	LEU	X	348	46.411	105.920	147.995	1.00	0.00	H
ATOM	2427	CD2	LEU	X	348	45.395	104.620	145.759	1.00	0.00	C
ATOM	2428	HD21	LEU	X	348	44.659	104.225	145.058	1.00	0.00	H
ATOM	2429	HD22	LEU	X	348	46.188	105.029	145.133	1.00	0.00	H
ATOM	2430	HD23	LEU	X	348	45.758	103.753	146.310	1.00	0.00	H
ATOM	2431	C	LEU	X	348	42.041	103.295	148.028	1.00	0.00	C
ATOM	2432	O	LEU	X	348	42.769	102.546	148.772	1.00	0.00	O
ATOM	2433	N	ASP	X	349	40.791	103.267	148.365	1.00	0.00	N
ATOM	2434	H	ASP	X	349	40.254	103.995	147.911	1.00	0.00	H
ATOM	2435	CA	ASP	X	349	40.079	102.259	149.223	1.00	0.00	C
ATOM	2436	HA	ASP	X	349	40.718	101.848	150.006	1.00	0.00	H
ATOM	2437	CB	ASP	X	349	38.856	102.927	149.989	1.00	0.00	C
ATOM	2438	HB2	ASP	X	349	38.269	103.519	149.285	1.00	0.00	H
ATOM	2439	HB3	ASP	X	349	38.186	102.148	150.357	1.00	0.00	H
ATOM	2440	CG	ASP	X	349	39.303	103.834	151.204	1.00	0.00	C
ATOM	2441	OD1	ASP	X	349	38.331	104.372	151.786	1.00	0.00	O
ATOM	2442	OD2	ASP	X	349	40.469	103.951	151.634	1.00	0.00	O
ATOM	2443	C	ASP	X	349	39.521	101.060	148.404	1.00	0.00	C
ATOM	2444	O	ASP	X	349	39.257	99.970	149.025	1.00	0.00	O
ATOM	2445	N	HID	X	350	39.479	101.184	147.067	1.00	0.00	N
ATOM	2446	H	HID	X	350	39.715	102.089	146.687	1.00	0.00	H
ATOM	2447	CA	HID	X	350	38.986	100.266	146.086	1.00	0.00	C
ATOM	2448	HA	HID	X	350	39.053	99.263	146.507	1.00	0.00	H
ATOM	2449	CB	HID	X	350	37.515	100.605	145.748	1.00	0.00	C
ATOM	2450	HB2	HID	X	350	37.467	101.482	145.102	1.00	0.00	H
ATOM	2451	HB3	HID	X	350	37.093	99.750	145.218	1.00	0.00	H
ATOM	2452	CG	HID	X	350	36.609	100.870	146.946	1.00	0.00	C
ATOM	2453	ND1	HID	X	350	36.467	102.072	147.598	1.00	0.00	N
ATOM	2454	HD1	HID	X	350	36.888	102.906	147.216	1.00	0.00	H
ATOM	2455	CE1	HID	X	350	35.730	101.935	148.709	1.00	0.00	C
ATOM	2456	HE1	HID	X	350	35.514	102.730	149.407	1.00	0.00	H
ATOM	2457	NE2	HID	X	350	35.330	100.663	148.769	1.00	0.00	N
ATOM	2458	CD2	HID	X	350	35.807	99.966	147.640	1.00	0.00	C

ATOM	2459	HD2	HID	X	350	35.738	98.913	147.409	1.00	0.00		H
ATOM	2460	C	HID	X	350	39.837	100.167	144.795	1.00	0.00		C
ATOM	2461	O	HID	X	350	39.212	100.093	143.749	1.00	0.00		O
ATOM	2462	N	PRO	X	351	41.203	100.036	144.950	1.00	0.00		N
ATOM	2463	CD	PRO	X	351	41.989	99.965	146.213	1.00	0.00		C
ATOM	2464	HD2	PRO	X	351	41.473	99.573	147.090	1.00	0.00		H
ATOM	2465	HD3	PRO	X	351	42.299	100.975	146.480	1.00	0.00		H
ATOM	2466	CG	PRO	X	351	43.200	99.104	145.838	1.00	0.00		C
ATOM	2467	HG2	PRO	X	351	42.824	98.086	145.737	1.00	0.00		H
ATOM	2468	HG3	PRO	X	351	43.969	99.128	146.612	1.00	0.00		H
ATOM	2469	CB	PRO	X	351	43.475	99.687	144.462	1.00	0.00		C
ATOM	2470	HB2	PRO	X	351	44.279	99.144	143.964	1.00	0.00		H
ATOM	2471	HB3	PRO	X	351	43.759	100.724	144.635	1.00	0.00		H
ATOM	2472	CA	PRO	X	351	42.132	99.754	143.816	1.00	0.00		C
ATOM	2473	HA	PRO	X	351	42.061	100.573	143.101	1.00	0.00		H
ATOM	2474	C	PRO	X	351	41.804	98.537	142.974	1.00	0.00		C
ATOM	2475	O	PRO	X	351	41.996	98.632	141.712	1.00	0.00		O
ATOM	2476	N	ASP	X	352	41.141	97.510	143.562	1.00	0.00		N
ATOM	2477	H	ASP	X	352	41.103	97.461	144.570	1.00	0.00		H
ATOM	2478	CA	ASP	X	352	40.670	96.310	142.744	1.00	0.00		C
ATOM	2479	HA	ASP	X	352	41.541	95.948	142.197	1.00	0.00		H
ATOM	2480	CB	ASP	X	352	40.233	95.178	143.734	1.00	0.00		C
ATOM	2481	HB2	ASP	X	352	40.327	94.215	143.232	1.00	0.00		H
ATOM	2482	HB3	ASP	X	352	40.905	95.125	144.590	1.00	0.00		H
ATOM	2483	CG	ASP	X	352	38.881	95.333	144.277	1.00	0.00		C
ATOM	2484	OD1	ASP	X	352	38.011	94.515	143.927	1.00	0.00		O
ATOM	2485	OD2	ASP	X	352	38.692	96.160	145.200	1.00	0.00		O
ATOM	2486	C	ASP	X	352	39.654	96.563	141.691	1.00	0.00		C
ATOM	2487	O	ASP	X	352	39.735	95.943	140.608	1.00	0.00		O
ATOM	2488	N	ARG	X	353	38.808	97.611	141.926	1.00	0.00		N
ATOM	2489	H	ARG	X	353	38.992	98.117	142.780	1.00	0.00		H
ATOM	2490	CA	ARG	X	353	37.748	98.100	141.013	1.00	0.00		C
ATOM	2491	HA	ARG	X	353	37.272	97.168	140.711	1.00	0.00		H
ATOM	2492	CB	ARG	X	353	36.680	98.903	141.820	1.00	0.00		C
ATOM	2493	HB2	ARG	X	353	37.062	99.732	142.416	1.00	0.00		H
ATOM	2494	HB3	ARG	X	353	35.932	99.303	141.137	1.00	0.00		H
ATOM	2495	CG	ARG	X	353	35.984	98.064	142.905	1.00	0.00		C
ATOM	2496	HG2	ARG	X	353	36.695	97.667	143.630	1.00	0.00		H
ATOM	2497	HG3	ARG	X	353	35.302	98.751	143.405	1.00	0.00		H
ATOM	2498	CD	ARG	X	353	35.274	96.754	142.395	1.00	0.00		C
ATOM	2499	HD2	ARG	X	353	34.457	96.531	143.082	1.00	0.00		H
ATOM	2500	HD3	ARG	X	353	34.926	96.994	141.390	1.00	0.00		H
ATOM	2501	NE	ARG	X	353	36.126	95.553	142.368	1.00	0.00		N
ATOM	2502	HE	ARG	X	353	36.691	95.335	143.177	1.00	0.00		H
ATOM	2503	CZ	ARG	X	353	36.130	94.576	141.420	1.00	0.00		C
ATOM	2504	NH1	ARG	X	353	35.458	94.665	140.347	1.00	0.00		N
ATOM	2505	HH11	ARG	X	353	34.761	95.373	140.163	1.00	0.00		H
ATOM	2506	HH12	ARG	X	353	35.757	94.088	139.575	1.00	0.00		H
ATOM	2507	NH2	ARG	X	353	36.879	93.528	141.422	1.00	0.00		N
ATOM	2508	HH21	ARG	X	353	37.400	93.425	142.282	1.00	0.00		H
ATOM	2509	HH22	ARG	X	353	36.660	92.728	140.846	1.00	0.00		H
ATOM	2510	C	ARG	X	353	38.261	98.802	139.758	1.00	0.00		C
ATOM	2511	O	ARG	X	353	37.341	99.429	139.134	1.00	0.00		O
ATOM	2512	N	ILE	X	354	39.528	98.682	139.445	1.00	0.00		N
ATOM	2513	H	ILE	X	354	40.046	98.006	139.987	1.00	0.00		H
ATOM	2514	CA	ILE	X	354	40.222	99.332	138.312	1.00	0.00		C
ATOM	2515	HA	ILE	X	354	39.462	99.958	137.844	1.00	0.00		H
ATOM	2516	CB	ILE	X	354	41.396	100.264	138.738	1.00	0.00		C
ATOM	2517	HB	ILE	X	354	42.230	99.708	139.170	1.00	0.00		H
ATOM	2518	CG2	ILE	X	354	41.936	100.943	137.482	1.00	0.00		C
ATOM	2519	HG21	ILE	X	354	42.469	100.232	136.852	1.00	0.00		H
ATOM	2520	HG22	ILE	X	354	41.151	101.548	137.025	1.00	0.00		H
ATOM	2521	HG23	ILE	X	354	42.652	101.640	137.920	1.00	0.00		H
ATOM	2522	CG1	ILE	X	354	40.938	101.310	139.766	1.00	0.00		C
ATOM	2523	HG12	ILE	X	354	40.150	101.955	139.377	1.00	0.00		H
ATOM	2524	HG13	ILE	X	354	40.490	100.792	140.614	1.00	0.00		H
ATOM	2525	CD1	ILE	X	354	42.087	102.195	140.310	1.00	0.00		C
ATOM	2526	HD11	ILE	X	354	42.479	102.863	139.543	1.00	0.00		H
ATOM	2527	HD12	ILE	X	354	41.699	102.799	141.131	1.00	0.00		H
ATOM	2528	HD13	ILE	X	354	42.884	101.608	140.768	1.00	0.00		H
ATOM	2529	C	ILE	X	354	40.710	98.313	137.254	1.00	0.00		C
ATOM	2530	O	ILE	X	354	41.428	97.395	137.721	1.00	0.00		O
ATOM	2531	N	LEU	X	355	40.506	98.625	135.954	1.00	0.00		N
ATOM	2532	H	LEU	X	355	39.969	99.433	135.676	1.00	0.00		H
ATOM	2533	CA	LEU	X	355	41.343	97.980	134.877	1.00	0.00		C
ATOM	2534	HA	LEU	X	355	41.892	97.123	135.265	1.00	0.00		H
ATOM	2535	CB	LEU	X	355	40.435	97.499	133.713	1.00	0.00		C
ATOM	2536	HB2	LEU	X	355	39.646	96.843	134.081	1.00	0.00		H
ATOM	2537	HB3	LEU	X	355	39.992	98.453	133.433	1.00	0.00		H
ATOM	2538	CG	LEU	X	355	41.106	96.906	132.455	1.00	0.00		C
ATOM	2539	HG	LEU	X	355	41.910	97.526	132.059	1.00	0.00		H
ATOM	2540	CD1	LEU	X	355	41.742	95.544	132.832	1.00	0.00		C

ATOM	2541	HD11	LEU	X	355	41.946	94.854	132.013	1.00	0.00	H
ATOM	2542	HD12	LEU	X	355	42.534	95.818	133.529	1.00	0.00	H
ATOM	2543	HD13	LEU	X	355	40.905	95.042	133.317	1.00	0.00	H
ATOM	2544	CD2	LEU	X	355	39.998	96.685	131.394	1.00	0.00	C
ATOM	2545	HD21	LEU	X	355	40.457	96.101	130.596	1.00	0.00	H
ATOM	2546	HD22	LEU	X	355	39.150	96.153	131.826	1.00	0.00	H
ATOM	2547	HD23	LEU	X	355	39.562	97.651	131.138	1.00	0.00	H
ATOM	2548	C	LEU	X	355	42.331	99.037	134.376	1.00	0.00	C
ATOM	2549	O	LEU	X	355	41.922	100.104	133.927	1.00	0.00	O
ATOM	2550	N	LEU	X	356	43.657	98.805	134.405	1.00	0.00	N
ATOM	2551	H	LEU	X	356	43.911	97.903	134.779	1.00	0.00	H
ATOM	2552	CA	LEU	X	356	44.813	99.520	133.772	1.00	0.00	C
ATOM	2553	HA	LEU	X	356	44.454	100.531	133.575	1.00	0.00	H
ATOM	2554	CB	LEU	X	356	45.995	99.531	134.729	1.00	0.00	C
ATOM	2555	HB2	LEU	X	356	46.459	98.546	134.680	1.00	0.00	H
ATOM	2556	HB3	LEU	X	356	46.778	100.113	134.244	1.00	0.00	H
ATOM	2557	CG	LEU	X	356	45.742	99.971	136.144	1.00	0.00	C
ATOM	2558	HG	LEU	X	356	44.831	99.466	136.463	1.00	0.00	H
ATOM	2559	CD1	LEU	X	356	46.861	99.540	137.061	1.00	0.00	C
ATOM	2560	HD11	LEU	X	356	46.703	99.949	138.059	1.00	0.00	H
ATOM	2561	HD12	LEU	X	356	46.785	98.468	137.243	1.00	0.00	H
ATOM	2562	HD13	LEU	X	356	47.874	99.776	136.736	1.00	0.00	H
ATOM	2563	CD2	LEU	X	356	45.614	101.516	136.306	1.00	0.00	C
ATOM	2564	HD21	LEU	X	356	46.575	102.000	136.137	1.00	0.00	H
ATOM	2565	HD22	LEU	X	356	44.876	101.886	135.596	1.00	0.00	H
ATOM	2566	HD23	LEU	X	356	45.373	101.841	137.318	1.00	0.00	H
ATOM	2567	C	LEU	X	356	45.200	98.819	132.438	1.00	0.00	C
ATOM	2568	O	LEU	X	356	45.538	97.646	132.445	1.00	0.00	O
ATOM	2569	N	THR	X	357	45.151	99.464	131.286	1.00	0.00	N
ATOM	2570	H	THR	X	357	44.995	100.456	131.392	1.00	0.00	H
ATOM	2571	CA	THR	X	357	45.402	98.908	129.950	1.00	0.00	C
ATOM	2572	HA	THR	X	357	45.418	97.818	129.952	1.00	0.00	H
ATOM	2573	CB	THR	X	357	44.072	99.142	128.931	1.00	0.00	C
ATOM	2574	HB	THR	X	357	43.746	100.179	128.868	1.00	0.00	H
ATOM	2575	CG2	THR	X	357	44.418	98.795	127.433	1.00	0.00	C
ATOM	2576	HG21	THR	X	357	45.147	97.986	127.361	1.00	0.00	H
ATOM	2577	HG22	THR	X	357	43.463	98.611	126.941	1.00	0.00	H
ATOM	2578	HG23	THR	X	357	44.917	99.645	126.966	1.00	0.00	H
ATOM	2579	OG1	THR	X	357	43.018	98.330	129.336	1.00	0.00	O
ATOM	2580	HG1	THR	X	357	43.044	98.256	130.292	1.00	0.00	H
ATOM	2581	C	THR	X	357	46.650	99.492	129.323	1.00	0.00	C
ATOM	2582	O	THR	X	357	46.636	100.708	129.044	1.00	0.00	O
ATOM	2583	N	PHE	X	358	47.650	98.714	128.961	1.00	0.00	N
ATOM	2584	H	PHE	X	358	47.559	97.750	129.247	1.00	0.00	H
ATOM	2585	CA	PHE	X	358	48.997	99.165	128.563	1.00	0.00	C
ATOM	2586	HA	PHE	X	358	49.025	100.252	128.485	1.00	0.00	H
ATOM	2587	CB	PHE	X	358	49.998	98.796	129.687	1.00	0.00	C
ATOM	2588	HB2	PHE	X	358	49.825	97.728	129.824	1.00	0.00	H
ATOM	2589	HB3	PHE	X	358	50.986	98.871	129.235	1.00	0.00	H
ATOM	2590	CG	PHE	X	358	49.857	99.598	131.066	1.00	0.00	C
ATOM	2591	CD1	PHE	X	358	50.174	100.990	131.113	1.00	0.00	C
ATOM	2592	HD1	PHE	X	358	50.447	101.443	130.171	1.00	0.00	H
ATOM	2593	CE1	PHE	X	358	50.285	101.683	132.351	1.00	0.00	C
ATOM	2594	HE1	PHE	X	358	50.630	102.701	132.453	1.00	0.00	H
ATOM	2595	CZ	PHE	X	358	49.876	101.037	133.514	1.00	0.00	C
ATOM	2596	HZ	PHE	X	358	49.872	101.513	134.483	1.00	0.00	H
ATOM	2597	CE2	PHE	X	358	49.466	99.675	133.446	1.00	0.00	C
ATOM	2598	HE2	PHE	X	358	49.217	99.215	134.391	1.00	0.00	H
ATOM	2599	CD2	PHE	X	358	49.511	98.918	132.248	1.00	0.00	C
ATOM	2600	HD2	PHE	X	358	49.188	97.891	132.154	1.00	0.00	H
ATOM	2601	C	PHE	X	358	49.263	98.542	127.240	1.00	0.00	C
ATOM	2602	O	PHE	X	358	49.909	97.517	127.163	1.00	0.00	O
ATOM	2603	N	ASP	X	359	48.790	99.113	126.140	1.00	0.00	N
ATOM	2604	H	ASP	X	359	48.260	99.955	126.313	1.00	0.00	H
ATOM	2605	CA	ASP	X	359	49.032	98.762	124.797	1.00	0.00	C
ATOM	2606	HA	ASP	X	359	49.066	97.680	124.666	1.00	0.00	H
ATOM	2607	CB	ASP	X	359	47.921	99.228	123.822	1.00	0.00	C
ATOM	2608	HB2	ASP	X	359	46.941	99.086	124.274	1.00	0.00	H
ATOM	2609	HB3	ASP	X	359	47.917	100.305	123.657	1.00	0.00	H
ATOM	2610	CG	ASP	X	359	47.913	98.474	122.505	1.00	0.00	C
ATOM	2611	OD1	ASP	X	359	48.340	97.305	122.433	1.00	0.00	O
ATOM	2612	OD2	ASP	X	359	47.465	99.133	121.507	1.00	0.00	O
ATOM	2613	C	ASP	X	359	50.477	99.219	124.310	1.00	0.00	C
ATOM	2614	O	ASP	X	359	50.908	100.390	124.417	1.00	0.00	O
ATOM	2615	N	GLY	X	360	51.238	98.297	123.674	1.00	0.00	N
ATOM	2616	H	GLY	X	360	50.931	97.336	123.671	1.00	0.00	H
ATOM	2617	CA	GLY	X	360	52.599	98.531	123.178	1.00	0.00	C
ATOM	2618	HA2	GLY	X	360	52.797	97.708	122.491	1.00	0.00	H
ATOM	2619	HA3	GLY	X	360	52.748	99.494	122.690	1.00	0.00	H
ATOM	2620	C	GLY	X	360	53.672	98.424	124.220	1.00	0.00	C
ATOM	2621	O	GLY	X	360	54.739	99.090	124.031	1.00	0.00	O
ATOM	2622	N	PHE	X	361	53.606	97.644	125.260	1.00	0.00	N

ATOM	2623	H	PHE	X	361	52.822	97.008	125.221	1.00	0.00	H
ATOM	2624	CA	PHE	X	361	54.599	97.437	126.307	1.00	0.00	C
ATOM	2625	HA	PHE	X	361	54.872	98.396	126.746	1.00	0.00	H
ATOM	2626	CB	PHE	X	361	53.934	96.633	127.440	1.00	0.00	C
ATOM	2627	HB2	PHE	X	361	53.072	97.236	127.726	1.00	0.00	H
ATOM	2628	HB3	PHE	X	361	53.447	95.742	127.042	1.00	0.00	H
ATOM	2629	CG	PHE	X	361	54.756	96.282	128.636	1.00	0.00	C
ATOM	2630	CD1	PHE	X	361	54.464	96.982	129.828	1.00	0.00	C
ATOM	2631	HD1	PHE	X	361	53.748	97.790	129.787	1.00	0.00	H
ATOM	2632	CE1	PHE	X	361	55.256	96.707	130.949	1.00	0.00	C
ATOM	2633	HE1	PHE	X	361	55.045	97.284	131.838	1.00	0.00	H
ATOM	2634	CZ	PHE	X	361	56.288	95.727	130.818	1.00	0.00	C
ATOM	2635	HZ	PHE	X	361	56.762	95.553	131.772	1.00	0.00	H
ATOM	2636	CE2	PHE	X	361	56.428	94.917	129.689	1.00	0.00	C
ATOM	2637	HE2	PHE	X	361	57.128	94.093	129.726	1.00	0.00	H
ATOM	2638	CD2	PHE	X	361	55.655	95.189	128.558	1.00	0.00	C
ATOM	2639	HD2	PHE	X	361	55.878	94.694	127.624	1.00	0.00	H
ATOM	2640	C	PHE	X	361	55.939	96.913	125.845	1.00	0.00	C
ATOM	2641	O	PHE	X	361	56.961	97.023	126.523	1.00	0.00	O
ATOM	2642	N	ASP	X	362	56.031	96.382	124.628	1.00	0.00	N
ATOM	2643	H	ASP	X	362	55.166	96.522	124.127	1.00	0.00	H
ATOM	2644	CA	ASP	X	362	57.224	95.860	123.929	1.00	0.00	C
ATOM	2645	HA	ASP	X	362	57.636	95.104	124.596	1.00	0.00	H
ATOM	2646	CB	ASP	X	362	56.757	95.141	122.622	1.00	0.00	C
ATOM	2647	HB2	ASP	X	362	57.638	94.922	122.019	1.00	0.00	H
ATOM	2648	HB3	ASP	X	362	56.391	94.140	122.848	1.00	0.00	H
ATOM	2649	CG	ASP	X	362	55.808	95.921	121.785	1.00	0.00	C
ATOM	2650	OD1	ASP	X	362	56.195	96.421	120.715	1.00	0.00	O
ATOM	2651	OD2	ASP	X	362	54.656	96.133	122.224	1.00	0.00	O
ATOM	2652	C	ASP	X	362	58.200	96.979	123.638	1.00	0.00	C
ATOM	2653	O	ASP	X	362	59.218	96.684	123.029	1.00	0.00	O
ATOM	2654	N	GLU	X	363	57.870	98.260	124.026	1.00	0.00	N
ATOM	2655	H	GLU	X	363	56.949	98.324	124.435	1.00	0.00	H
ATOM	2656	CA	GLU	X	363	58.817	99.433	123.935	1.00	0.00	C
ATOM	2657	HA	GLU	X	363	59.424	99.161	123.071	1.00	0.00	H
ATOM	2658	CB	GLU	X	363	58.007	100.677	123.656	1.00	0.00	C
ATOM	2659	HB2	GLU	X	363	57.267	100.340	122.931	1.00	0.00	H
ATOM	2660	HB3	GLU	X	363	57.471	101.016	124.544	1.00	0.00	H
ATOM	2661	CG	GLU	X	363	58.725	101.964	123.138	1.00	0.00	C
ATOM	2662	HG2	GLU	X	363	57.972	102.694	122.842	1.00	0.00	H
ATOM	2663	HG3	GLU	X	363	59.281	102.447	123.942	1.00	0.00	H
ATOM	2664	CD	GLU	X	363	59.564	101.709	121.877	1.00	0.00	C
ATOM	2665	OE1	GLU	X	363	60.701	102.157	121.864	1.00	0.00	O
ATOM	2666	OE2	GLU	X	363	59.050	101.141	120.891	1.00	0.00	O
ATOM	2667	C	GLU	X	363	59.771	99.630	125.113	1.00	0.00	C
ATOM	2668	O	GLU	X	363	60.844	100.161	124.944	1.00	0.00	O
ATOM	2669	N	PHE	X	364	59.388	99.308	126.378	1.00	0.00	N
ATOM	2670	H	PHE	X	364	58.445	99.002	126.572	1.00	0.00	H
ATOM	2671	CA	PHE	X	364	60.303	99.350	127.502	1.00	0.00	C
ATOM	2672	HA	PHE	X	364	60.703	100.355	127.641	1.00	0.00	H
ATOM	2673	CB	PHE	X	364	59.560	98.959	128.772	1.00	0.00	C
ATOM	2674	HB2	PHE	X	364	59.278	97.929	128.551	1.00	0.00	H
ATOM	2675	HB3	PHE	X	364	60.367	98.941	129.505	1.00	0.00	H
ATOM	2676	CG	PHE	X	364	58.362	99.950	129.177	1.00	0.00	C
ATOM	2677	CD1	PHE	X	364	58.609	101.338	129.144	1.00	0.00	C
ATOM	2678	HD1	PHE	X	364	59.607	101.650	128.875	1.00	0.00	H
ATOM	2679	CE1	PHE	X	364	57.526	102.198	129.614	1.00	0.00	C
ATOM	2680	HE1	PHE	X	364	57.586	103.275	129.578	1.00	0.00	H
ATOM	2681	CZ	PHE	X	364	56.294	101.703	130.038	1.00	0.00	C
ATOM	2682	HZ	PHE	X	364	55.552	102.416	130.371	1.00	0.00	H
ATOM	2683	CE2	PHE	X	364	56.044	100.288	130.042	1.00	0.00	C
ATOM	2684	HE2	PHE	X	364	55.102	99.822	130.289	1.00	0.00	H
ATOM	2685	CD2	PHE	X	364	57.082	99.417	129.575	1.00	0.00	C
ATOM	2686	HD2	PHE	X	364	57.008	98.341	129.619	1.00	0.00	H
ATOM	2687	C	PHE	X	364	61.540	98.519	127.265	1.00	0.00	C
ATOM	2688	O	PHE	X	364	61.591	97.480	126.649	1.00	0.00	O
ATOM	2689	N	LYS	X	365	62.652	99.096	127.867	1.00	0.00	N
ATOM	2690	H	LYS	X	365	62.576	100.023	128.261	1.00	0.00	H
ATOM	2691	CA	LYS	X	365	63.983	98.468	127.875	1.00	0.00	C
ATOM	2692	HA	LYS	X	365	63.885	97.385	127.797	1.00	0.00	H
ATOM	2693	CB	LYS	X	365	65.069	98.946	126.826	1.00	0.00	C
ATOM	2694	HB2	LYS	X	365	65.173	100.027	126.913	1.00	0.00	H
ATOM	2695	HB3	LYS	X	365	66.033	98.516	127.097	1.00	0.00	H
ATOM	2696	CG	LYS	X	365	64.763	98.422	125.362	1.00	0.00	C
ATOM	2697	HG2	LYS	X	365	64.904	97.342	125.421	1.00	0.00	H
ATOM	2698	HG3	LYS	X	365	63.698	98.588	125.205	1.00	0.00	H
ATOM	2699	CD	LYS	X	365	65.520	99.091	124.227	1.00	0.00	C
ATOM	2700	HD2	LYS	X	365	65.525	100.176	124.328	1.00	0.00	H
ATOM	2701	HD3	LYS	X	365	66.519	98.664	124.302	1.00	0.00	H
ATOM	2702	CE	LYS	X	365	65.128	98.661	122.851	1.00	0.00	C
ATOM	2703	HE2	LYS	X	365	65.680	99.254	122.122	1.00	0.00	H
ATOM	2704	HE3	LYS	X	365	65.294	97.595	122.689	1.00	0.00	H

ATOM	2705	NZ	LYS	X	365	63.705	99.040	122.649	1.00	0.00	N
ATOM	2706	HZ1	LYS	X	365	63.081	98.434	123.162	1.00	0.00	H
ATOM	2707	HZ2	LYS	X	365	63.466	100.008	122.818	1.00	0.00	H
ATOM	2708	HZ3	LYS	X	365	63.392	98.890	121.702	1.00	0.00	H
ATOM	2709	C	LYS	X	365	64.488	98.657	129.343	1.00	0.00	C
ATOM	2710	O	LYS	X	365	65.326	99.549	129.650	1.00	0.00	O
ATOM	2711	N	PHE	X	366	64.021	97.752	130.286	1.00	0.00	N
ATOM	2712	H	PHE	X	366	63.470	96.955	129.999	1.00	0.00	H
ATOM	2713	CA	PHE	X	366	64.308	97.859	131.677	1.00	0.00	C
ATOM	2714	HA	PHE	X	366	64.065	98.845	132.076	1.00	0.00	H
ATOM	2715	CB	PHE	X	366	63.395	96.794	132.396	1.00	0.00	C
ATOM	2716	HB2	PHE	X	366	63.580	95.825	131.933	1.00	0.00	H
ATOM	2717	HB3	PHE	X	366	63.803	96.612	133.391	1.00	0.00	H
ATOM	2718	CG	PHE	X	366	61.954	97.201	132.519	1.00	0.00	C
ATOM	2719	CD1	PHE	X	366	61.424	97.925	133.622	1.00	0.00	C
ATOM	2720	HD1	PHE	X	366	62.169	98.050	134.394	1.00	0.00	H
ATOM	2721	CE1	PHE	X	366	60.013	98.216	133.718	1.00	0.00	C
ATOM	2722	HE1	PHE	X	366	59.504	98.607	134.586	1.00	0.00	H
ATOM	2723	CZ	PHE	X	366	59.191	97.890	132.621	1.00	0.00	C
ATOM	2724	HZ	PHE	X	366	58.165	98.224	132.664	1.00	0.00	H
ATOM	2725	CE2	PHE	X	366	59.701	97.150	131.570	1.00	0.00	C
ATOM	2726	HE2	PHE	X	366	59.038	96.831	130.778	1.00	0.00	H
ATOM	2727	CD2	PHE	X	366	61.037	96.812	131.498	1.00	0.00	C
ATOM	2728	HD2	PHE	X	366	61.367	96.210	130.664	1.00	0.00	H
ATOM	2729	C	PHE	X	366	65.829	97.581	131.990	1.00	0.00	C
ATOM	2730	O	PHE	X	366	66.454	96.791	131.294	1.00	0.00	O
ATOM	2731	N	LYS	X	367	66.338	98.116	133.132	1.00	0.00	N
ATOM	2732	H	LYS	X	367	65.745	98.746	133.655	1.00	0.00	H
ATOM	2733	CA	LYS	X	367	67.724	97.958	133.557	1.00	0.00	C
ATOM	2734	HA	LYS	X	367	68.125	97.009	133.204	1.00	0.00	H
ATOM	2735	CB	LYS	X	367	68.581	99.084	132.868	1.00	0.00	C
ATOM	2736	HB2	LYS	X	367	69.608	98.887	133.179	1.00	0.00	H
ATOM	2737	HB3	LYS	X	367	68.536	99.017	131.782	1.00	0.00	H
ATOM	2738	CG	LYS	X	367	68.075	100.476	133.208	1.00	0.00	C
ATOM	2739	HG2	LYS	X	367	67.115	100.600	132.705	1.00	0.00	H
ATOM	2740	HG3	LYS	X	367	68.023	100.703	134.271	1.00	0.00	H
ATOM	2741	CD	LYS	X	367	69.038	101.503	132.544	1.00	0.00	C
ATOM	2742	HD2	LYS	X	367	69.983	101.542	133.087	1.00	0.00	H
ATOM	2743	HD3	LYS	X	367	69.238	101.276	131.496	1.00	0.00	H
ATOM	2744	CE	LYS	X	367	68.546	102.958	132.645	1.00	0.00	C
ATOM	2745	HE2	LYS	X	367	69.245	103.667	132.203	1.00	0.00	H
ATOM	2746	HE3	LYS	X	367	67.699	103.061	131.966	1.00	0.00	H
ATOM	2747	NZ	LYS	X	367	67.984	103.360	134.000	1.00	0.00	N
ATOM	2748	HZ1	LYS	X	367	67.979	104.366	134.094	1.00	0.00	H
ATOM	2749	HZ2	LYS	X	367	67.108	102.896	134.192	1.00	0.00	H
ATOM	2750	HZ3	LYS	X	367	68.517	103.006	134.783	1.00	0.00	H
ATOM	2751	C	LYS	X	367	67.808	97.959	135.049	1.00	0.00	C
ATOM	2752	O	LYS	X	367	66.956	98.534	135.726	1.00	0.00	O
ATOM	2753	N	PHE	X	368	68.926	97.442	135.631	1.00	0.00	N
ATOM	2754	H	PHE	X	368	69.454	96.784	135.075	1.00	0.00	H
ATOM	2755	CA	PHE	X	368	69.188	97.234	137.086	1.00	0.00	C
ATOM	2756	HA	PHE	X	368	68.581	96.389	137.409	1.00	0.00	H
ATOM	2757	CB	PHE	X	368	70.715	96.743	137.202	1.00	0.00	C
ATOM	2758	HB2	PHE	X	368	71.334	97.528	136.768	1.00	0.00	H
ATOM	2759	HB3	PHE	X	368	70.967	96.529	138.240	1.00	0.00	H
ATOM	2760	CG	PHE	X	368	70.974	95.467	136.470	1.00	0.00	C
ATOM	2761	CD1	PHE	X	368	71.794	95.506	135.277	1.00	0.00	C
ATOM	2762	HD1	PHE	X	368	72.262	96.445	135.022	1.00	0.00	H
ATOM	2763	CE1	PHE	X	368	72.016	94.338	134.604	1.00	0.00	C
ATOM	2764	HE1	PHE	X	368	72.616	94.331	133.707	1.00	0.00	H
ATOM	2765	CZ	PHE	X	368	71.400	93.105	135.008	1.00	0.00	C
ATOM	2766	HZ	PHE	X	368	71.668	92.217	134.454	1.00	0.00	H
ATOM	2767	CE2	PHE	X	368	70.712	92.984	136.190	1.00	0.00	C
ATOM	2768	HE2	PHE	X	368	70.358	92.006	136.481	1.00	0.00	H
ATOM	2769	CD2	PHE	X	368	70.459	94.181	136.894	1.00	0.00	C
ATOM	2770	HD2	PHE	X	368	69.984	94.162	137.866	1.00	0.00	H
ATOM	2771	C	PHE	X	368	68.907	98.505	137.930	1.00	0.00	C
ATOM	2772	O	PHE	X	368	68.460	98.331	139.034	1.00	0.00	O
ATOM	2773	N	THR	X	369	69.252	99.710	137.469	1.00	0.00	N
ATOM	2774	H	THR	X	369	69.537	99.840	136.508	1.00	0.00	H
ATOM	2775	CA	THR	X	369	68.968	100.912	138.241	1.00	0.00	C
ATOM	2776	HA	THR	X	369	69.321	100.797	139.266	1.00	0.00	H
ATOM	2777	CB	THR	X	369	69.834	102.166	137.662	1.00	0.00	C
ATOM	2778	HB	THR	X	369	69.443	103.123	138.007	1.00	0.00	H
ATOM	2779	CG2	THR	X	369	71.304	102.053	138.043	1.00	0.00	C
ATOM	2780	HG21	THR	X	369	71.875	102.963	137.857	1.00	0.00	H
ATOM	2781	HG22	THR	X	369	71.258	102.029	139.131	1.00	0.00	H
ATOM	2782	HG23	THR	X	369	71.683	101.162	137.543	1.00	0.00	H
ATOM	2783	OG1	THR	X	369	69.663	102.131	136.247	1.00	0.00	O
ATOM	2784	HG1	THR	X	369	70.303	101.528	135.860	1.00	0.00	H
ATOM	2785	C	THR	X	369	67.517	101.230	138.286	1.00	0.00	C
ATOM	2786	O	THR	X	369	67.124	101.879	139.243	1.00	0.00	O

ATOM	2787	N	ASP	X	370	66.644	100.707	137.396	1.00	0.00	N
ATOM	2788	H	ASP	X	370	66.973	100.096	136.662	1.00	0.00	H
ATOM	2789	CA	ASP	X	370	65.203	100.990	137.404	1.00	0.00	C
ATOM	2790	HA	ASP	X	370	64.936	102.042	137.506	1.00	0.00	H
ATOM	2791	CB	ASP	X	370	64.449	100.428	136.161	1.00	0.00	C
ATOM	2792	HB2	ASP	X	370	64.536	99.342	136.146	1.00	0.00	H
ATOM	2793	HB3	ASP	X	370	63.426	100.802	136.197	1.00	0.00	H
ATOM	2794	CG	ASP	X	370	64.925	101.070	134.837	1.00	0.00	C
ATOM	2795	OD1	ASP	X	370	65.792	101.978	134.772	1.00	0.00	O
ATOM	2796	OD2	ASP	X	370	64.423	100.568	133.790	1.00	0.00	O
ATOM	2797	C	ASP	X	370	64.511	100.314	138.593	1.00	0.00	C
ATOM	2798	O	ASP	X	370	63.441	100.853	139.032	1.00	0.00	O
ATOM	2799	N	HID	X	371	65.037	99.260	139.214	1.00	0.00	N
ATOM	2800	H	HID	X	371	65.925	98.890	138.908	1.00	0.00	H
ATOM	2801	CA	HID	X	371	64.424	98.574	140.349	1.00	0.00	C
ATOM	2802	HA	HID	X	371	63.351	98.587	140.148	1.00	0.00	H
ATOM	2803	CB	HID	X	371	64.786	97.101	140.175	1.00	0.00	C
ATOM	2804	HB2	HID	X	371	65.845	96.956	140.385	1.00	0.00	H
ATOM	2805	HB3	HID	X	371	64.216	96.493	140.878	1.00	0.00	H
ATOM	2806	CG	HID	X	371	64.548	96.590	138.760	1.00	0.00	C
ATOM	2807	ND1	HID	X	371	63.427	96.819	138.027	1.00	0.00	N
ATOM	2808	HD1	HID	X	371	62.515	97.113	138.345	1.00	0.00	H
ATOM	2809	CE1	HID	X	371	63.697	96.357	136.750	1.00	0.00	C
ATOM	2810	HE1	HID	X	371	62.943	96.279	135.981	1.00	0.00	H
ATOM	2811	NE2	HID	X	371	64.926	95.865	136.686	1.00	0.00	N
ATOM	2812	CD2	HID	X	371	65.465	95.923	137.976	1.00	0.00	C
ATOM	2813	HD2	HID	X	371	66.467	95.604	138.224	1.00	0.00	H
ATOM	2814	C	HID	X	371	64.707	99.172	141.701	1.00	0.00	C
ATOM	2815	O	HID	X	371	64.884	98.481	142.685	1.00	0.00	O
ATOM	2816	N	GLU	X	372	64.556	100.526	141.810	1.00	0.00	N
ATOM	2817	H	GLU	X	372	64.435	101.030	140.945	1.00	0.00	H
ATOM	2818	CA	GLU	X	372	64.445	101.225	143.089	1.00	0.00	C
ATOM	2819	HA	GLU	X	372	65.110	100.771	143.823	1.00	0.00	H
ATOM	2820	CB	GLU	X	372	64.912	102.651	142.902	1.00	0.00	C
ATOM	2821	HB2	GLU	X	372	65.976	102.744	142.685	1.00	0.00	H
ATOM	2822	HB3	GLU	X	372	64.408	103.144	142.070	1.00	0.00	H
ATOM	2823	CG	GLU	X	372	64.816	103.496	144.194	1.00	0.00	C
ATOM	2824	HG2	GLU	X	372	65.203	104.472	143.901	1.00	0.00	H
ATOM	2825	HG3	GLU	X	372	63.767	103.544	144.487	1.00	0.00	H
ATOM	2826	CD	GLU	X	372	65.730	102.982	145.334	1.00	0.00	C
ATOM	2827	OE1	GLU	X	372	66.834	103.558	145.573	1.00	0.00	O
ATOM	2828	OE2	GLU	X	372	65.223	102.072	145.997	1.00	0.00	O
ATOM	2829	C	GLU	X	372	63.045	101.108	143.560	1.00	0.00	C
ATOM	2830	O	GLU	X	372	62.115	101.177	142.779	1.00	0.00	O
ATOM	2831	N	ARG	X	373	62.831	100.998	144.907	1.00	0.00	N
ATOM	2832	H	ARG	X	373	63.579	101.350	145.486	1.00	0.00	H
ATOM	2833	CA	ARG	X	373	61.580	100.760	145.670	1.00	0.00	C
ATOM	2834	HA	ARG	X	373	60.900	100.135	145.089	1.00	0.00	H
ATOM	2835	CB	ARG	X	373	61.790	99.985	146.963	1.00	0.00	C
ATOM	2836	HB2	ARG	X	373	62.579	99.244	146.839	1.00	0.00	H
ATOM	2837	HB3	ARG	X	373	62.210	100.622	147.742	1.00	0.00	H
ATOM	2838	CG	ARG	X	373	60.599	99.319	147.548	1.00	0.00	C
ATOM	2839	HG2	ARG	X	373	59.781	100.021	147.713	1.00	0.00	H
ATOM	2840	HG3	ARG	X	373	60.258	98.518	146.891	1.00	0.00	H
ATOM	2841	CD	ARG	X	373	60.882	98.597	148.874	1.00	0.00	C
ATOM	2842	HD2	ARG	X	373	61.705	97.902	148.709	1.00	0.00	H
ATOM	2843	HD3	ARG	X	373	61.120	99.374	149.601	1.00	0.00	H
ATOM	2844	NE	ARG	X	373	59.744	97.708	149.261	1.00	0.00	N
ATOM	2845	HE	ARG	X	373	58.878	98.202	149.426	1.00	0.00	H
ATOM	2846	CZ	ARG	X	373	59.835	96.433	149.451	1.00	0.00	C
ATOM	2847	NH1	ARG	X	373	60.975	95.776	149.501	1.00	0.00	N
ATOM	2848	HH11	ARG	X	373	61.841	96.290	149.424	1.00	0.00	H
ATOM	2849	HH12	ARG	X	373	61.006	94.815	149.811	1.00	0.00	H
ATOM	2850	NH2	ARG	X	373	58.862	95.659	149.751	1.00	0.00	N
ATOM	2851	HH21	ARG	X	373	57.901	95.954	149.846	1.00	0.00	H
ATOM	2852	HH22	ARG	X	373	59.096	94.700	149.960	1.00	0.00	H
ATOM	2853	C	ARG	X	373	60.837	102.034	145.898	1.00	0.00	C
ATOM	2854	O	ARG	X	373	61.469	103.034	146.274	1.00	0.00	O
ATOM	2855	N	HIE	X	374	59.556	102.042	145.685	1.00	0.00	N
ATOM	2856	H	HIE	X	374	59.143	101.213	145.282	1.00	0.00	H
ATOM	2857	CA	HIE	X	374	58.706	103.230	145.741	1.00	0.00	C
ATOM	2858	HA	HIE	X	374	58.931	103.905	146.567	1.00	0.00	H
ATOM	2859	CB	HIE	X	374	58.879	104.132	144.586	1.00	0.00	C
ATOM	2860	HB2	HIE	X	374	59.930	104.402	144.482	1.00	0.00	H
ATOM	2861	HB3	HIE	X	374	58.688	103.643	143.631	1.00	0.00	H
ATOM	2862	CG	HIE	X	374	58.151	105.395	144.629	1.00	0.00	C
ATOM	2863	ND1	HIE	X	374	58.661	106.684	144.691	1.00	0.00	N
ATOM	2864	CE1	HIE	X	374	57.588	107.445	144.727	1.00	0.00	C
ATOM	2865	HE1	HIE	X	374	57.574	108.520	144.619	1.00	0.00	H
ATOM	2866	NE2	HIE	X	374	56.496	106.701	144.603	1.00	0.00	N
ATOM	2867	HE2	HIE	X	374	55.550	106.940	144.343	1.00	0.00	H
ATOM	2868	CD2	HIE	X	374	56.835	105.437	144.580	1.00	0.00	C

ATOM	2869	HD2	HIE	X	374	56.193	104.571	144.498	1.00	0.00	H
ATOM	2870	C	HIE	X	374	57.247	102.785	145.981	1.00	0.00	C
ATOM	2871	O	HIE	X	374	56.745	102.003	145.158	1.00	0.00	O
ATOM	2872	N	CYS	X	375	56.560	103.264	146.988	1.00	0.00	N
ATOM	2873	H	CYS	X	375	57.126	103.984	147.415	1.00	0.00	H
ATOM	2874	CA	CYS	X	375	55.113	102.989	147.354	1.00	0.00	C
ATOM	2875	HA	CYS	X	375	54.712	102.396	146.534	1.00	0.00	H
ATOM	2876	CB	CYS	X	375	55.095	102.114	148.595	1.00	0.00	C
ATOM	2877	HB2	CYS	X	375	55.558	102.672	149.409	1.00	0.00	H
ATOM	2878	HB3	CYS	X	375	54.065	101.814	148.798	1.00	0.00	H
ATOM	2879	SG	CYS	X	375	55.964	100.542	148.439	1.00	0.00	S
ATOM	2880	HG	CYS	X	375	56.905	100.756	149.363	1.00	0.00	H
ATOM	2881	C	CYS	X	375	54.219	104.278	147.545	1.00	0.00	C
ATOM	2882	O	CYS	X	375	52.985	104.247	147.533	1.00	0.00	O
ATOM	2883	N	SER	X	376	54.853	105.522	147.540	1.00	0.00	N
ATOM	2884	H	SER	X	376	55.852	105.663	147.553	1.00	0.00	H
ATOM	2885	CA	SER	X	376	54.068	106.764	147.699	1.00	0.00	C
ATOM	2886	HA	SER	X	376	53.431	106.822	148.582	1.00	0.00	H
ATOM	2887	CB	SER	X	376	55.060	108.018	147.847	1.00	0.00	C
ATOM	2888	HB2	SER	X	376	55.474	108.116	148.850	1.00	0.00	H
ATOM	2889	HB3	SER	X	376	55.805	108.030	147.051	1.00	0.00	H
ATOM	2890	OG	SER	X	376	54.231	109.143	147.688	1.00	0.00	O
ATOM	2891	HG	SER	X	376	54.047	109.527	148.548	1.00	0.00	H
ATOM	2892	C	SER	X	376	53.194	106.931	146.419	1.00	0.00	C
ATOM	2893	O	SER	X	376	53.751	106.960	145.265	1.00	0.00	O
ATOM	2894	N	PRO	X	377	51.871	107.218	146.528	1.00	0.00	N
ATOM	2895	CD	PRO	X	377	51.070	107.119	147.741	1.00	0.00	C
ATOM	2896	HD2	PRO	X	377	51.525	107.834	148.425	1.00	0.00	H
ATOM	2897	HD3	PRO	X	377	51.187	106.065	147.989	1.00	0.00	H
ATOM	2898	CG	PRO	X	377	49.609	107.497	147.454	1.00	0.00	C
ATOM	2899	HG2	PRO	X	377	49.350	108.469	147.876	1.00	0.00	H
ATOM	2900	HG3	PRO	X	377	48.862	106.806	147.846	1.00	0.00	H
ATOM	2901	CB	PRO	X	377	49.668	107.493	145.945	1.00	0.00	C
ATOM	2902	HB2	PRO	X	377	48.955	108.150	145.448	1.00	0.00	H
ATOM	2903	HB3	PRO	X	377	49.157	106.595	145.594	1.00	0.00	H
ATOM	2904	CA	PRO	X	377	51.068	107.625	145.414	1.00	0.00	C
ATOM	2905	HA	PRO	X	377	51.310	107.005	144.551	1.00	0.00	H
ATOM	2906	C	PRO	X	377	51.317	109.087	144.933	1.00	0.00	C
ATOM	2907	O	PRO	X	377	50.812	109.418	143.900	1.00	0.00	O
ATOM	2908	N	THR	X	378	51.950	109.947	145.746	1.00	0.00	N
ATOM	2909	H	THR	X	378	52.297	109.650	146.646	1.00	0.00	H
ATOM	2910	CA	THR	X	378	52.036	111.410	145.573	1.00	0.00	C
ATOM	2911	HA	THR	X	378	51.441	111.529	144.666	1.00	0.00	H
ATOM	2912	CB	THR	X	378	51.294	112.152	146.755	1.00	0.00	C
ATOM	2913	HB	THR	X	378	51.402	113.230	146.640	1.00	0.00	H
ATOM	2914	CG2	THR	X	378	49.862	111.812	146.806	1.00	0.00	C
ATOM	2915	HG21	THR	X	378	49.429	112.418	147.602	1.00	0.00	H
ATOM	2916	HG22	THR	X	378	49.449	112.011	145.815	1.00	0.00	H
ATOM	2917	HG23	THR	X	378	49.675	110.751	146.977	1.00	0.00	H
ATOM	2918	OG1	THR	X	378	51.957	111.853	147.907	1.00	0.00	O
ATOM	2919	HG1	THR	X	378	52.448	112.621	148.206	1.00	0.00	H
ATOM	2920	C	THR	X	378	53.352	112.067	145.251	1.00	0.00	C
ATOM	2921	O	THR	X	378	53.406	112.926	144.350	1.00	0.00	O
ATOM	2922	N	ASP	X	379	54.474	111.567	145.767	1.00	0.00	N
ATOM	2923	H	ASP	X	379	54.484	110.778	146.399	1.00	0.00	H
ATOM	2924	CA	ASP	X	379	55.836	111.809	145.273	1.00	0.00	C
ATOM	2925	HA	ASP	X	379	55.916	112.880	145.089	1.00	0.00	H
ATOM	2926	CB	ASP	X	379	56.770	111.321	146.416	1.00	0.00	C
ATOM	2927	HB2	ASP	X	379	56.437	110.324	146.705	1.00	0.00	H
ATOM	2928	HB3	ASP	X	379	57.790	111.237	146.045	1.00	0.00	H
ATOM	2929	CG	ASP	X	379	56.678	112.295	147.625	1.00	0.00	C
ATOM	2930	OD1	ASP	X	379	55.827	113.192	147.697	1.00	0.00	O
ATOM	2931	OD2	ASP	X	379	57.437	112.006	148.580	1.00	0.00	O
ATOM	2932	C	ASP	X	379	56.123	111.067	144.009	1.00	0.00	C
ATOM	2933	O	ASP	X	379	55.761	109.947	143.866	1.00	0.00	O
ATOM	2934	N	PRO	X	380	56.759	111.737	143.016	1.00	0.00	N
ATOM	2935	CD	PRO	X	380	57.161	113.155	143.093	1.00	0.00	C
ATOM	2936	HD2	PRO	X	380	57.770	113.471	143.940	1.00	0.00	H
ATOM	2937	HD3	PRO	X	380	56.262	113.771	143.098	1.00	0.00	H
ATOM	2938	CG	PRO	X	380	57.908	113.307	141.843	1.00	0.00	C
ATOM	2939	HG2	PRO	X	380	58.929	112.994	142.057	1.00	0.00	H
ATOM	2940	HG3	PRO	X	380	57.849	114.355	141.549	1.00	0.00	H
ATOM	2941	CB	PRO	X	380	57.315	112.304	140.848	1.00	0.00	C
ATOM	2942	HB2	PRO	X	380	58.081	111.964	140.152	1.00	0.00	H
ATOM	2943	HB3	PRO	X	380	56.459	112.770	140.362	1.00	0.00	H
ATOM	2944	CA	PRO	X	380	56.970	111.121	141.728	1.00	0.00	C
ATOM	2945	HA	PRO	X	380	56.079	110.545	141.477	1.00	0.00	H
ATOM	2946	C	PRO	X	380	58.117	110.065	141.713	1.00	0.00	C
ATOM	2947	O	PRO	X	380	58.869	109.970	142.677	1.00	0.00	O
ATOM	2948	N	THR	X	381	58.207	109.308	140.680	1.00	0.00	N
ATOM	2949	H	THR	X	381	57.487	109.415	139.980	1.00	0.00	H
ATOM	2950	CA	THR	X	381	59.128	108.187	140.486	1.00	0.00	C

ATOM	2951	HA	THR	X	381	59.975	108.432	141.128	1.00	0.00	H
ATOM	2952	CB	THR	X	381	58.524	106.841	140.977	1.00	0.00	C
ATOM	2953	HB	THR	X	381	57.901	106.883	141.870	1.00	0.00	H
ATOM	2954	CG2	THR	X	381	57.507	106.178	140.069	1.00	0.00	C
ATOM	2955	HG21	THR	X	381	56.728	106.912	139.863	1.00	0.00	H
ATOM	2956	HG22	THR	X	381	58.065	105.771	139.227	1.00	0.00	H
ATOM	2957	HG23	THR	X	381	57.076	105.378	140.671	1.00	0.00	H
ATOM	2958	OG1	THR	X	381	59.600	105.966	141.206	1.00	0.00	O
ATOM	2959	HG1	THR	X	381	60.039	106.305	141.990	1.00	0.00	H
ATOM	2960	C	THR	X	381	59.698	108.027	139.047	1.00	0.00	C
ATOM	2961	O	THR	X	381	59.005	108.199	138.096	1.00	0.00	O
ATOM	2962	N	SER	X	382	60.951	107.632	138.923	1.00	0.00	N
ATOM	2963	H	SER	X	382	61.467	107.522	139.784	1.00	0.00	H
ATOM	2964	CA	SER	X	382	61.666	107.481	137.610	1.00	0.00	C
ATOM	2965	HA	SER	X	382	61.702	108.486	137.190	1.00	0.00	H
ATOM	2966	CB	SER	X	382	63.143	107.120	138.050	1.00	0.00	C
ATOM	2967	HB2	SER	X	382	63.221	106.208	138.641	1.00	0.00	H
ATOM	2968	HB3	SER	X	382	63.811	106.915	137.214	1.00	0.00	H
ATOM	2969	OG	SER	X	382	63.748	108.225	138.735	1.00	0.00	O
ATOM	2970	HG	SER	X	382	64.507	107.902	139.227	1.00	0.00	H
ATOM	2971	C	SER	X	382	61.109	106.586	136.511	1.00	0.00	C
ATOM	2972	O	SER	X	382	60.292	105.622	136.769	1.00	0.00	O
ATOM	2973	N	VAL	X	383	61.465	106.905	135.243	1.00	0.00	N
ATOM	2974	H	VAL	X	383	62.089	107.679	135.064	1.00	0.00	H
ATOM	2975	CA	VAL	X	383	61.066	106.108	134.046	1.00	0.00	C
ATOM	2976	HA	VAL	X	383	60.029	106.252	133.739	1.00	0.00	H
ATOM	2977	CB	VAL	X	383	61.778	106.725	132.812	1.00	0.00	C
ATOM	2978	HB	VAL	X	383	61.435	107.757	132.755	1.00	0.00	H
ATOM	2979	CG1	VAL	X	383	63.305	106.648	132.857	1.00	0.00	C
ATOM	2980	HG11	VAL	X	383	63.806	107.144	132.027	1.00	0.00	H
ATOM	2981	HG12	VAL	X	383	63.697	107.099	133.770	1.00	0.00	H
ATOM	2982	HG13	VAL	X	383	63.650	105.616	132.797	1.00	0.00	H
ATOM	2983	CG2	VAL	X	383	61.338	105.984	131.560	1.00	0.00	C
ATOM	2984	HG21	VAL	X	383	61.548	104.916	131.600	1.00	0.00	H
ATOM	2985	HG22	VAL	X	383	60.334	106.281	131.257	1.00	0.00	H
ATOM	2986	HG23	VAL	X	383	61.915	106.365	130.717	1.00	0.00	H
ATOM	2987	C	VAL	X	383	61.340	104.612	134.282	1.00	0.00	C
ATOM	2988	O	VAL	X	383	62.417	104.184	134.734	1.00	0.00	O
ATOM	2989	N	GLN	X	384	60.328	103.784	133.925	1.00	0.00	N
ATOM	2990	H	GLN	X	384	59.489	104.198	133.542	1.00	0.00	H
ATOM	2991	CA	GLN	X	384	60.239	102.315	134.227	1.00	0.00	C
ATOM	2992	HA	GLN	X	384	59.241	102.013	133.913	1.00	0.00	H
ATOM	2993	CB	GLN	X	384	61.266	101.477	133.330	1.00	0.00	C
ATOM	2994	HB2	GLN	X	384	62.195	102.044	133.386	1.00	0.00	H
ATOM	2995	HB3	GLN	X	384	61.299	100.529	133.866	1.00	0.00	H
ATOM	2996	CG	GLN	X	384	60.933	101.347	131.840	1.00	0.00	C
ATOM	2997	HG2	GLN	X	384	60.321	100.470	131.627	1.00	0.00	H
ATOM	2998	HG3	GLN	X	384	60.337	102.235	131.629	1.00	0.00	H
ATOM	2999	CD	GLN	X	384	62.152	101.443	130.905	1.00	0.00	C
ATOM	3000	OE1	GLN	X	384	62.072	101.827	129.700	1.00	0.00	O
ATOM	3001	NE2	GLN	X	384	63.359	101.176	131.280	1.00	0.00	N
ATOM	3002	HE21	GLN	X	384	64.172	101.117	130.684	1.00	0.00	H
ATOM	3003	HE22	GLN	X	384	63.544	100.886	132.230	1.00	0.00	H
ATOM	3004	C	GLN	X	384	60.339	101.902	135.691	1.00	0.00	C
ATOM	3005	O	GLN	X	384	59.736	100.844	135.943	1.00	0.00	O
ATOM	3006	N	THR	X	385	60.732	102.649	136.691	1.00	0.00	N
ATOM	3007	H	THR	X	385	61.298	103.476	136.571	1.00	0.00	H
ATOM	3008	CA	THR	X	385	60.492	102.420	138.150	1.00	0.00	C
ATOM	3009	HA	THR	X	385	60.969	101.468	138.385	1.00	0.00	H
ATOM	3010	CB	THR	X	385	61.266	103.497	138.964	1.00	0.00	C
ATOM	3011	HB	THR	X	385	60.926	104.520	138.806	1.00	0.00	H
ATOM	3012	CG2	THR	X	385	61.199	103.318	140.489	1.00	0.00	C
ATOM	3013	HG21	THR	X	385	61.601	104.229	140.933	1.00	0.00	H
ATOM	3014	HG22	THR	X	385	60.164	103.287	140.826	1.00	0.00	H
ATOM	3015	HG23	THR	X	385	61.778	102.421	140.710	1.00	0.00	H
ATOM	3016	OG1	THR	X	385	62.645	103.475	138.632	1.00	0.00	O
ATOM	3017	HG1	THR	X	385	62.886	102.548	138.696	1.00	0.00	H
ATOM	3018	C	THR	X	385	59.018	102.460	138.498	1.00	0.00	C
ATOM	3019	O	THR	X	385	58.590	101.640	139.332	1.00	0.00	O
ATOM	3020	N	LEU	X	386	58.239	103.438	137.934	1.00	0.00	N
ATOM	3021	H	LEU	X	386	58.630	104.079	137.258	1.00	0.00	H
ATOM	3022	CA	LEU	X	386	56.794	103.382	137.970	1.00	0.00	C
ATOM	3023	HA	LEU	X	386	56.409	103.541	138.978	1.00	0.00	H
ATOM	3024	CB	LEU	X	386	56.221	104.538	137.029	1.00	0.00	C
ATOM	3025	HB2	LEU	X	386	56.725	105.459	137.322	1.00	0.00	H
ATOM	3026	HB3	LEU	X	386	56.624	104.262	136.056	1.00	0.00	H
ATOM	3027	CG	LEU	X	386	54.725	104.835	137.066	1.00	0.00	C
ATOM	3028	HG	LEU	X	386	54.176	104.002	136.631	1.00	0.00	H
ATOM	3029	CD1	LEU	X	386	54.076	105.067	138.501	1.00	0.00	C
ATOM	3030	HD11	LEU	X	386	54.541	105.941	138.959	1.00	0.00	H
ATOM	3031	HD12	LEU	X	386	53.020	105.325	138.423	1.00	0.00	H
ATOM	3032	HD13	LEU	X	386	54.331	104.180	139.083	1.00	0.00	H

ATOM	3033	CD2	LEU	X	386	54.410	106.065	136.247	1.00	0.00	C
ATOM	3034	HD21	LEU	X	386	54.409	105.744	135.205	1.00	0.00	H
ATOM	3035	HD22	LEU	X	386	53.370	106.346	136.410	1.00	0.00	H
ATOM	3036	HD23	LEU	X	386	55.143	106.842	136.460	1.00	0.00	H
ATOM	3037	C	LEU	X	386	56.228	102.062	137.553	1.00	0.00	C
ATOM	3038	O	LEU	X	386	55.328	101.519	138.208	1.00	0.00	O
ATOM	3039	N	LEU	X	387	56.678	101.500	136.424	1.00	0.00	N
ATOM	3040	H	LEU	X	387	57.396	101.904	135.841	1.00	0.00	H
ATOM	3041	CA	LEU	X	387	56.163	100.212	135.921	1.00	0.00	C
ATOM	3042	HA	LEU	X	387	55.080	100.309	135.988	1.00	0.00	H
ATOM	3043	CB	LEU	X	387	56.542	100.133	134.475	1.00	0.00	C
ATOM	3044	HB2	LEU	X	387	57.554	100.529	134.390	1.00	0.00	H
ATOM	3045	HB3	LEU	X	387	56.586	99.049	134.368	1.00	0.00	H
ATOM	3046	CG	LEU	X	387	55.517	100.625	133.473	1.00	0.00	C
ATOM	3047	HG	LEU	X	387	55.920	100.356	132.497	1.00	0.00	H
ATOM	3048	CD1	LEU	X	387	54.134	99.997	133.515	1.00	0.00	C
ATOM	3049	HD11	LEU	X	387	54.240	98.946	133.785	1.00	0.00	H
ATOM	3050	HD12	LEU	X	387	53.547	100.411	134.335	1.00	0.00	H
ATOM	3051	HD13	LEU	X	387	53.587	100.083	132.576	1.00	0.00	H
ATOM	3052	CD2	LEU	X	387	55.462	102.166	133.490	1.00	0.00	C
ATOM	3053	HD21	LEU	X	387	54.996	102.646	132.628	1.00	0.00	H
ATOM	3054	HD22	LEU	X	387	54.804	102.463	134.307	1.00	0.00	H
ATOM	3055	HD23	LEU	X	387	56.445	102.593	133.683	1.00	0.00	H
ATOM	3056	C	LEU	X	387	56.619	98.994	136.843	1.00	0.00	C
ATOM	3057	O	LEU	X	387	55.907	97.993	137.075	1.00	0.00	O
ATOM	3058	N	PHE	X	388	57.712	99.222	137.482	1.00	0.00	N
ATOM	3059	H	PHE	X	388	58.342	99.916	137.105	1.00	0.00	H
ATOM	3060	CA	PHE	X	388	58.359	98.172	138.354	1.00	0.00	C
ATOM	3061	HA	PHE	X	388	58.393	97.154	137.964	1.00	0.00	H
ATOM	3062	CB	PHE	X	388	59.795	98.492	138.666	1.00	0.00	C
ATOM	3063	HB2	PHE	X	388	60.400	98.443	137.759	1.00	0.00	H
ATOM	3064	HB3	PHE	X	388	59.773	99.565	138.857	1.00	0.00	H
ATOM	3065	CG	PHE	X	388	60.436	97.702	139.776	1.00	0.00	C
ATOM	3066	CD1	PHE	X	388	60.769	96.354	139.594	1.00	0.00	C
ATOM	3067	HD1	PHE	X	388	60.404	95.967	138.653	1.00	0.00	H
ATOM	3068	CE1	PHE	X	388	61.356	95.627	140.657	1.00	0.00	C
ATOM	3069	HE1	PHE	X	388	61.557	94.570	140.560	1.00	0.00	H
ATOM	3070	CZ	PHE	X	388	61.819	96.312	141.819	1.00	0.00	C
ATOM	3071	HZ	PHE	X	388	62.385	95.814	142.593	1.00	0.00	H
ATOM	3072	CE2	PHE	X	388	61.617	97.678	141.975	1.00	0.00	C
ATOM	3073	HE2	PHE	X	388	61.904	98.181	142.886	1.00	0.00	H
ATOM	3074	CD2	PHE	X	388	60.832	98.330	140.990	1.00	0.00	C
ATOM	3075	HD2	PHE	X	388	60.731	99.403	141.057	1.00	0.00	H
ATOM	3076	C	PHE	X	388	57.534	98.018	139.557	1.00	0.00	C
ATOM	3077	O	PHE	X	388	57.087	96.876	139.785	1.00	0.00	O
ATOM	3078	N	ASN	X	389	57.218	99.073	140.335	1.00	0.00	N
ATOM	3079	H	ASN	X	389	57.672	99.941	140.085	1.00	0.00	H
ATOM	3080	CA	ASN	X	389	56.298	99.108	141.477	1.00	0.00	C
ATOM	3081	HA	ASN	X	389	56.656	98.347	142.171	1.00	0.00	H
ATOM	3082	CB	ASN	X	389	56.596	100.505	142.140	1.00	0.00	C
ATOM	3083	HB2	ASN	X	389	56.522	101.364	141.474	1.00	0.00	H
ATOM	3084	HB3	ASN	X	389	55.805	100.722	142.859	1.00	0.00	H
ATOM	3085	CG	ASN	X	389	58.026	100.561	142.819	1.00	0.00	C
ATOM	3086	OD1	ASN	X	389	58.300	99.971	143.865	1.00	0.00	O
ATOM	3087	ND2	ASN	X	389	58.971	101.175	142.216	1.00	0.00	N
ATOM	3088	HD21	ASN	X	389	59.904	101.143	142.601	1.00	0.00	H
ATOM	3089	HD22	ASN	X	389	58.942	101.409	141.235	1.00	0.00	H
ATOM	3090	C	ASN	X	389	54.800	98.914	141.068	1.00	0.00	C
ATOM	3091	O	ASN	X	389	54.050	98.378	141.867	1.00	0.00	O
ATOM	3092	N	LEU	X	390	54.411	99.303	139.891	1.00	0.00	N
ATOM	3093	H	LEU	X	390	55.055	99.760	139.262	1.00	0.00	H
ATOM	3094	CA	LEU	X	390	53.071	98.941	139.446	1.00	0.00	C
ATOM	3095	HA	LEU	X	390	52.340	99.154	140.224	1.00	0.00	H
ATOM	3096	CB	LEU	X	390	52.556	99.774	138.245	1.00	0.00	C
ATOM	3097	HB2	LEU	X	390	53.402	99.849	137.560	1.00	0.00	H
ATOM	3098	HB3	LEU	X	390	51.771	99.277	137.675	1.00	0.00	H
ATOM	3099	CG	LEU	X	390	52.038	101.196	138.490	1.00	0.00	C
ATOM	3100	HG	LEU	X	390	52.707	101.832	139.068	1.00	0.00	H
ATOM	3101	CD1	LEU	X	390	51.783	101.887	137.136	1.00	0.00	C
ATOM	3102	HD11	LEU	X	390	52.669	101.861	136.502	1.00	0.00	H
ATOM	3103	HD12	LEU	X	390	50.959	101.414	136.602	1.00	0.00	H
ATOM	3104	HD13	LEU	X	390	51.500	102.926	137.305	1.00	0.00	H
ATOM	3105	CD2	LEU	X	390	50.682	101.218	139.216	1.00	0.00	C
ATOM	3106	HD21	LEU	X	390	50.803	100.673	140.152	1.00	0.00	H
ATOM	3107	HD22	LEU	X	390	50.276	102.219	139.363	1.00	0.00	H
ATOM	3108	HD23	LEU	X	390	49.969	100.701	138.574	1.00	0.00	H
ATOM	3109	C	LEU	X	390	52.947	97.426	139.191	1.00	0.00	C
ATOM	3110	O	LEU	X	390	52.059	96.844	139.798	1.00	0.00	O
ATOM	3111	N	LEU	X	391	53.873	96.694	138.516	1.00	0.00	N
ATOM	3112	H	LEU	X	391	54.550	97.239	138.003	1.00	0.00	H
ATOM	3113	CA	LEU	X	391	53.846	95.240	138.330	1.00	0.00	C
ATOM	3114	HA	LEU	X	391	52.898	95.051	137.828	1.00	0.00	H

ATOM	3115	CB	LEU	X	391	54.928	94.804	137.200	1.00	0.00	C
ATOM	3116	HB2	LEU	X	391	55.898	95.101	137.598	1.00	0.00	H
ATOM	3117	HB3	LEU	X	391	54.859	93.717	137.215	1.00	0.00	H
ATOM	3118	CG	LEU	X	391	54.553	95.305	135.767	1.00	0.00	C
ATOM	3119	HG	LEU	X	391	54.256	96.351	135.853	1.00	0.00	H
ATOM	3120	CD1	LEU	X	391	55.899	95.199	134.997	1.00	0.00	C
ATOM	3121	HD11	LEU	X	391	55.844	94.713	134.025	1.00	0.00	H
ATOM	3122	HD12	LEU	X	391	56.344	96.193	135.013	1.00	0.00	H
ATOM	3123	HD13	LEU	X	391	56.727	94.704	135.506	1.00	0.00	H
ATOM	3124	CD2	LEU	X	391	53.497	94.392	135.093	1.00	0.00	C
ATOM	3125	HD21	LEU	X	391	52.941	94.863	134.283	1.00	0.00	H
ATOM	3126	HD22	LEU	X	391	53.912	93.456	134.718	1.00	0.00	H
ATOM	3127	HD23	LEU	X	391	52.870	93.946	135.866	1.00	0.00	H
ATOM	3128	C	LEU	X	391	54.012	94.390	139.663	1.00	0.00	C
ATOM	3129	O	LEU	X	391	53.520	93.260	139.770	1.00	0.00	O
ATOM	3130	N	GLN	X	392	54.722	95.004	140.614	1.00	0.00	N
ATOM	3131	H	GLN	X	392	55.332	95.740	140.284	1.00	0.00	H
ATOM	3132	CA	GLN	X	392	54.822	94.348	141.989	1.00	0.00	C
ATOM	3133	HA	GLN	X	392	54.870	93.262	141.911	1.00	0.00	H
ATOM	3134	CB	GLN	X	392	56.091	94.886	142.636	1.00	0.00	C
ATOM	3135	HB2	GLN	X	392	56.911	94.645	141.960	1.00	0.00	H
ATOM	3136	HB3	GLN	X	392	55.940	95.963	142.694	1.00	0.00	H
ATOM	3137	CG	GLN	X	392	56.435	94.468	144.071	1.00	0.00	C
ATOM	3138	HG2	GLN	X	392	57.262	95.040	144.492	1.00	0.00	H
ATOM	3139	HG3	GLN	X	392	55.561	94.637	144.699	1.00	0.00	H
ATOM	3140	CD	GLN	X	392	56.819	92.992	144.123	1.00	0.00	C
ATOM	3141	OE1	GLN	X	392	56.934	92.322	143.056	1.00	0.00	O
ATOM	3142	NE2	GLN	X	392	56.810	92.398	145.233	1.00	0.00	N
ATOM	3143	HE21	GLN	X	392	57.183	91.466	145.349	1.00	0.00	H
ATOM	3144	HE22	GLN	X	392	56.462	92.866	146.058	1.00	0.00	H
ATOM	3145	C	GLN	X	392	53.625	94.647	142.807	1.00	0.00	C
ATOM	3146	O	GLN	X	392	53.421	94.014	143.877	1.00	0.00	O
ATOM	3147	N	GLY	X	393	52.797	95.615	142.363	1.00	0.00	N
ATOM	3148	H	GLY	X	393	52.849	95.958	141.413	1.00	0.00	H
ATOM	3149	CA	GLY	X	393	51.641	95.996	143.213	1.00	0.00	C
ATOM	3150	HA2	GLY	X	393	51.018	96.709	142.671	1.00	0.00	H
ATOM	3151	HA3	GLY	X	393	51.088	95.089	143.460	1.00	0.00	H
ATOM	3152	C	GLY	X	393	52.050	96.748	144.484	1.00	0.00	C
ATOM	3153	O	GLY	X	393	51.316	96.854	145.435	1.00	0.00	O
ATOM	3154	N	ASN	X	394	53.324	97.315	144.475	1.00	0.00	N
ATOM	3155	H	ASN	X	394	53.740	97.340	143.555	1.00	0.00	H
ATOM	3156	CA	ASN	X	394	53.855	98.358	145.391	1.00	0.00	C
ATOM	3157	HA	ASN	X	394	53.706	98.065	146.430	1.00	0.00	H
ATOM	3158	CB	ASN	X	394	55.320	98.603	145.115	1.00	0.00	C
ATOM	3159	HB2	ASN	X	394	55.557	98.525	144.054	1.00	0.00	H
ATOM	3160	HB3	ASN	X	394	55.609	99.592	145.471	1.00	0.00	H
ATOM	3161	CG	ASN	X	394	56.251	97.579	145.822	1.00	0.00	C
ATOM	3162	OD1	ASN	X	394	55.963	96.686	146.597	1.00	0.00	O
ATOM	3163	ND2	ASN	X	394	57.496	97.689	145.376	1.00	0.00	N
ATOM	3164	HD21	ASN	X	394	58.046	96.875	145.609	1.00	0.00	H
ATOM	3165	HD22	ASN	X	394	57.679	98.432	144.715	1.00	0.00	H
ATOM	3166	C	ASN	X	394	53.099	99.714	145.125	1.00	0.00	C
ATOM	3167	O	ASN	X	394	53.035	100.474	146.114	1.00	0.00	O
ATOM	3168	N	LEU	X	395	52.605	99.963	143.926	1.00	0.00	N
ATOM	3169	H	LEU	X	395	52.701	99.127	143.366	1.00	0.00	H
ATOM	3170	CA	LEU	X	395	51.525	100.909	143.653	1.00	0.00	C
ATOM	3171	HA	LEU	X	395	51.154	101.284	144.607	1.00	0.00	H
ATOM	3172	CB	LEU	X	395	52.117	101.909	142.605	1.00	0.00	C
ATOM	3173	HB2	LEU	X	395	52.471	101.331	141.751	1.00	0.00	H
ATOM	3174	HB3	LEU	X	395	51.323	102.593	142.305	1.00	0.00	H
ATOM	3175	CG	LEU	X	395	53.342	102.726	143.117	1.00	0.00	C
ATOM	3176	HG	LEU	X	395	54.102	102.134	143.626	1.00	0.00	H
ATOM	3177	CD1	LEU	X	395	54.036	103.563	142.088	1.00	0.00	C
ATOM	3178	HD11	LEU	X	395	54.802	104.219	142.501	1.00	0.00	H
ATOM	3179	HD12	LEU	X	395	54.662	102.865	141.532	1.00	0.00	H
ATOM	3180	HD13	LEU	X	395	53.447	104.175	141.405	1.00	0.00	H
ATOM	3181	CD2	LEU	X	395	52.799	103.708	144.055	1.00	0.00	C
ATOM	3182	HD21	LEU	X	395	52.487	103.240	144.989	1.00	0.00	H
ATOM	3183	HD22	LEU	X	395	53.537	104.451	144.354	1.00	0.00	H
ATOM	3184	HD23	LEU	X	395	51.912	104.168	143.620	1.00	0.00	H
ATOM	3185	C	LEU	X	395	50.313	100.176	143.046	1.00	0.00	C
ATOM	3186	O	LEU	X	395	50.479	99.167	142.337	1.00	0.00	O
ATOM	3187	N	LEU	X	396	49.108	100.703	143.198	1.00	0.00	N
ATOM	3188	H	LEU	X	396	49.090	101.558	143.736	1.00	0.00	H
ATOM	3189	CA	LEU	X	396	47.737	100.197	142.840	1.00	0.00	C
ATOM	3190	HA	LEU	X	396	47.078	100.761	143.500	1.00	0.00	H
ATOM	3191	CB	LEU	X	396	47.330	100.588	141.369	1.00	0.00	C
ATOM	3192	HB2	LEU	X	396	47.981	100.032	140.694	1.00	0.00	H
ATOM	3193	HB3	LEU	X	396	46.279	100.367	141.180	1.00	0.00	H
ATOM	3194	CG	LEU	X	396	47.606	102.089	141.163	1.00	0.00	C
ATOM	3195	HG	LEU	X	396	48.656	102.319	141.346	1.00	0.00	H
ATOM	3196	CD1	LEU	X	396	47.272	102.227	139.685	1.00	0.00	C

ATOM	3197	HD11	LEU	X	396	46.251	101.875	139.535	1.00	0.00	H
ATOM	3198	HD12	LEU	X	396	47.408	103.268	139.393	1.00	0.00	H
ATOM	3199	HD13	LEU	X	396	48.017	101.718	139.072	1.00	0.00	H
ATOM	3200	CD2	LEU	X	396	46.696	103.060	142.004	1.00	0.00	C
ATOM	3201	HD21	LEU	X	396	47.114	103.100	143.010	1.00	0.00	H
ATOM	3202	HD22	LEU	X	396	46.675	104.072	141.600	1.00	0.00	H
ATOM	3203	HD23	LEU	X	396	45.704	102.609	141.972	1.00	0.00	H
ATOM	3204	C	LEU	X	396	47.297	98.773	143.228	1.00	0.00	C
ATOM	3205	O	LEU	X	396	46.698	98.035	142.417	1.00	0.00	O
ATOM	3206	N	LYS	X	397	47.558	98.384	144.501	1.00	0.00	N
ATOM	3207	H	LYS	X	397	47.962	99.091	145.101	1.00	0.00	H
ATOM	3208	CA	LYS	X	397	47.437	97.028	145.088	1.00	0.00	C
ATOM	3209	HA	LYS	X	397	48.265	96.447	144.680	1.00	0.00	H
ATOM	3210	CB	LYS	X	397	47.731	97.013	146.576	1.00	0.00	C
ATOM	3211	HB2	LYS	X	397	48.677	97.516	146.780	1.00	0.00	H
ATOM	3212	HB3	LYS	X	397	47.010	97.586	147.160	1.00	0.00	H
ATOM	3213	CG	LYS	X	397	47.645	95.553	147.123	1.00	0.00	C
ATOM	3214	HG2	LYS	X	397	47.851	95.657	148.189	1.00	0.00	H
ATOM	3215	HG3	LYS	X	397	46.654	95.120	146.986	1.00	0.00	H
ATOM	3216	CD	LYS	X	397	48.608	94.556	146.453	1.00	0.00	C
ATOM	3217	HD2	LYS	X	397	48.364	94.197	145.454	1.00	0.00	H
ATOM	3218	HD3	LYS	X	397	49.538	95.083	146.243	1.00	0.00	H
ATOM	3219	CE	LYS	X	397	48.803	93.316	147.374	1.00	0.00	C
ATOM	3220	HE2	LYS	X	397	48.992	93.525	148.427	1.00	0.00	H
ATOM	3221	HE3	LYS	X	397	47.893	92.719	147.334	1.00	0.00	H
ATOM	3222	NZ	LYS	X	397	49.945	92.504	146.918	1.00	0.00	N
ATOM	3223	HZ1	LYS	X	397	50.067	91.679	147.487	1.00	0.00	H
ATOM	3224	HZ2	LYS	X	397	49.660	92.152	146.015	1.00	0.00	H
ATOM	3225	HZ3	LYS	X	397	50.801	93.037	146.948	1.00	0.00	H
ATOM	3226	C	LYS	X	397	46.146	96.382	144.552	1.00	0.00	C
ATOM	3227	O	LYS	X	397	45.057	96.756	144.946	1.00	0.00	O
ATOM	3228	N	ASN	X	398	46.299	95.251	143.777	1.00	0.00	N
ATOM	3229	H	ASN	X	398	47.210	95.105	143.366	1.00	0.00	H
ATOM	3230	CA	ASN	X	398	45.232	94.430	143.267	1.00	0.00	C
ATOM	3231	HA	ASN	X	398	45.649	93.657	142.622	1.00	0.00	H
ATOM	3232	CB	ASN	X	398	44.465	93.854	144.388	1.00	0.00	C
ATOM	3233	HB2	ASN	X	398	43.869	94.563	144.962	1.00	0.00	H
ATOM	3234	HB3	ASN	X	398	43.736	93.282	143.811	1.00	0.00	H
ATOM	3235	CG	ASN	X	398	45.287	92.950	145.341	1.00	0.00	C
ATOM	3236	OD1	ASN	X	398	46.155	92.171	144.934	1.00	0.00	O
ATOM	3237	ND2	ASN	X	398	44.994	93.030	146.591	1.00	0.00	N
ATOM	3238	HD21	ASN	X	398	45.509	92.554	147.319	1.00	0.00	H
ATOM	3239	HD22	ASN	X	398	44.071	93.355	146.842	1.00	0.00	H
ATOM	3240	C	ASN	X	398	44.382	95.093	142.200	1.00	0.00	C
ATOM	3241	O	ASN	X	398	43.486	94.472	141.635	1.00	0.00	O
ATOM	3242	N	ALA	X	399	44.616	96.355	141.726	1.00	0.00	N
ATOM	3243	H	ALA	X	399	45.388	96.861	142.136	1.00	0.00	H
ATOM	3244	CA	ALA	X	399	44.285	96.853	140.394	1.00	0.00	C
ATOM	3245	HA	ALA	X	399	43.218	97.061	140.313	1.00	0.00	H
ATOM	3246	CB	ALA	X	399	44.871	98.295	140.164	1.00	0.00	C
ATOM	3247	HB1	ALA	X	399	44.857	98.863	141.095	1.00	0.00	H
ATOM	3248	HB2	ALA	X	399	45.880	98.160	139.776	1.00	0.00	H
ATOM	3249	HB3	ALA	X	399	44.359	98.837	139.369	1.00	0.00	H
ATOM	3250	C	ALA	X	399	44.523	95.805	139.320	1.00	0.00	C
ATOM	3251	O	ALA	X	399	45.575	95.208	139.136	1.00	0.00	O
ATOM	3252	N	ARG	X	400	43.523	95.525	138.481	1.00	0.00	N
ATOM	3253	H	ARG	X	400	42.663	96.050	138.549	1.00	0.00	H
ATOM	3254	CA	ARG	X	400	43.674	94.659	137.284	1.00	0.00	C
ATOM	3255	HA	ARG	X	400	44.071	93.730	137.693	1.00	0.00	H
ATOM	3256	CB	ARG	X	400	42.321	94.303	136.668	1.00	0.00	C
ATOM	3257	HB2	ARG	X	400	41.683	95.185	136.608	1.00	0.00	H
ATOM	3258	HB3	ARG	X	400	42.389	93.858	135.675	1.00	0.00	H
ATOM	3259	CG	ARG	X	400	41.677	93.164	137.458	1.00	0.00	C
ATOM	3260	HG2	ARG	X	400	40.690	93.065	137.007	1.00	0.00	H
ATOM	3261	HG3	ARG	X	400	42.298	92.278	137.336	1.00	0.00	H
ATOM	3262	CD	ARG	X	400	41.475	93.452	138.947	1.00	0.00	C
ATOM	3263	HD2	ARG	X	400	42.427	93.326	139.465	1.00	0.00	H
ATOM	3264	HD3	ARG	X	400	40.908	94.365	139.129	1.00	0.00	H
ATOM	3265	NE	ARG	X	400	40.544	92.462	139.537	1.00	0.00	N
ATOM	3266	HE	ARG	X	400	39.789	92.131	138.954	1.00	0.00	H
ATOM	3267	CZ	ARG	X	400	40.525	91.977	140.724	1.00	0.00	C
ATOM	3268	NH1	ARG	X	400	41.365	92.445	141.669	1.00	0.00	N
ATOM	3269	HH11	ARG	X	400	41.965	93.256	141.666	1.00	0.00	H
ATOM	3270	HH12	ARG	X	400	41.222	92.080	142.600	1.00	0.00	H
ATOM	3271	NH2	ARG	X	400	39.709	91.025	141.067	1.00	0.00	N
ATOM	3272	HH21	ARG	X	400	39.254	90.538	140.308	1.00	0.00	H
ATOM	3273	HH22	ARG	X	400	39.763	90.621	141.992	1.00	0.00	H
ATOM	3274	C	ARG	X	400	44.585	95.174	136.219	1.00	0.00	C
ATOM	3275	O	ARG	X	400	44.477	96.329	135.794	1.00	0.00	O
ATOM	3276	N	LYS	X	401	45.493	94.315	135.755	1.00	0.00	N
ATOM	3277	H	LYS	X	401	45.568	93.444	136.260	1.00	0.00	H
ATOM	3278	CA	LYS	X	401	46.513	94.738	134.820	1.00	0.00	C

ATOM	3279	HA	LYS	X	401	46.355	95.788	134.576	1.00	0.00	H
ATOM	3280	CB	LYS	X	401	47.777	94.692	135.632	1.00	0.00	C
ATOM	3281	HB2	LYS	X	401	48.012	93.735	136.098	1.00	0.00	H
ATOM	3282	HB3	LYS	X	401	48.574	94.948	134.936	1.00	0.00	H
ATOM	3283	CG	LYS	X	401	47.807	95.819	136.711	1.00	0.00	C
ATOM	3284	HG2	LYS	X	401	47.664	96.762	136.181	1.00	0.00	H
ATOM	3285	HG3	LYS	X	401	46.990	95.698	137.421	1.00	0.00	H
ATOM	3286	CD	LYS	X	401	49.101	95.799	137.547	1.00	0.00	C
ATOM	3287	HD2	LYS	X	401	49.975	95.819	136.896	1.00	0.00	H
ATOM	3288	HD3	LYS	X	401	48.978	96.712	138.131	1.00	0.00	H
ATOM	3289	CE	LYS	X	401	49.208	94.588	138.552	1.00	0.00	C
ATOM	3290	HE2	LYS	X	401	49.130	93.624	138.049	1.00	0.00	H
ATOM	3291	HE3	LYS	X	401	50.197	94.545	139.006	1.00	0.00	H
ATOM	3292	NZ	LYS	X	401	48.238	94.654	139.703	1.00	0.00	N
ATOM	3293	HZ1	LYS	X	401	47.282	94.767	139.400	1.00	0.00	H
ATOM	3294	HZ2	LYS	X	401	48.188	93.787	140.219	1.00	0.00	H
ATOM	3295	HZ3	LYS	X	401	48.538	95.389	140.329	1.00	0.00	H
ATOM	3296	C	LYS	X	401	46.586	93.935	133.562	1.00	0.00	C
ATOM	3297	O	LYS	X	401	46.591	92.703	133.610	1.00	0.00	O
ATOM	3298	N	VAL	X	402	46.550	94.569	132.390	1.00	0.00	N
ATOM	3299	H	VAL	X	402	46.469	95.575	132.384	1.00	0.00	H
ATOM	3300	CA	VAL	X	402	46.867	93.836	131.196	1.00	0.00	C
ATOM	3301	HA	VAL	X	402	47.409	92.937	131.491	1.00	0.00	H
ATOM	3302	CB	VAL	X	402	45.690	93.543	130.325	1.00	0.00	C
ATOM	3303	HB	VAL	X	402	45.045	92.928	130.953	1.00	0.00	H
ATOM	3304	CG1	VAL	X	402	44.853	94.795	129.949	1.00	0.00	C
ATOM	3305	HG11	VAL	X	402	44.414	95.212	130.855	1.00	0.00	H
ATOM	3306	HG12	VAL	X	402	45.472	95.598	129.546	1.00	0.00	H
ATOM	3307	HG13	VAL	X	402	44.154	94.610	129.134	1.00	0.00	H
ATOM	3308	CG2	VAL	X	402	46.158	92.723	129.095	1.00	0.00	C
ATOM	3309	HG21	VAL	X	402	45.484	92.735	128.240	1.00	0.00	H
ATOM	3310	HG22	VAL	X	402	47.002	93.160	128.559	1.00	0.00	H
ATOM	3311	HG23	VAL	X	402	46.556	91.777	129.465	1.00	0.00	H
ATOM	3312	C	VAL	X	402	47.928	94.603	130.453	1.00	0.00	C
ATOM	3313	O	VAL	X	402	47.783	95.803	130.208	1.00	0.00	O
ATOM	3314	N	LEU	X	403	48.948	93.922	129.978	1.00	0.00	N
ATOM	3315	H	LEU	X	403	48.999	92.922	130.106	1.00	0.00	H
ATOM	3316	CA	LEU	X	403	49.994	94.435	129.146	1.00	0.00	C
ATOM	3317	HA	LEU	X	403	49.948	95.523	129.089	1.00	0.00	H
ATOM	3318	CB	LEU	X	403	51.327	94.014	129.777	1.00	0.00	C
ATOM	3319	HB2	LEU	X	403	51.353	92.926	129.733	1.00	0.00	H
ATOM	3320	HB3	LEU	X	403	52.161	94.414	129.201	1.00	0.00	H
ATOM	3321	CG	LEU	X	403	51.664	94.368	131.207	1.00	0.00	C
ATOM	3322	HG	LEU	X	403	50.868	94.025	131.867	1.00	0.00	H
ATOM	3323	CD1	LEU	X	403	53.016	93.743	131.492	1.00	0.00	C
ATOM	3324	HD11	LEU	X	403	53.557	94.036	132.390	1.00	0.00	H
ATOM	3325	HD12	LEU	X	403	52.962	92.654	131.461	1.00	0.00	H
ATOM	3326	HD13	LEU	X	403	53.706	93.991	130.684	1.00	0.00	H
ATOM	3327	CD2	LEU	X	403	51.715	95.881	131.510	1.00	0.00	C
ATOM	3328	HD21	LEU	X	403	51.448	96.518	130.666	1.00	0.00	H
ATOM	3329	HD22	LEU	X	403	50.911	96.166	132.189	1.00	0.00	H
ATOM	3330	HD23	LEU	X	403	52.624	96.128	132.058	1.00	0.00	H
ATOM	3331	C	LEU	X	403	49.858	93.817	127.735	1.00	0.00	C
ATOM	3332	O	LEU	X	403	49.562	92.660	127.556	1.00	0.00	O
ATOM	3333	N	THR	X	404	50.270	94.523	126.717	1.00	0.00	N
ATOM	3334	H	THR	X	404	50.528	95.490	126.860	1.00	0.00	H
ATOM	3335	CA	THR	X	404	50.432	93.969	125.386	1.00	0.00	C
ATOM	3336	HA	THR	X	404	50.245	92.897	125.433	1.00	0.00	H
ATOM	3337	CB	THR	X	404	49.428	94.492	124.393	1.00	0.00	C
ATOM	3338	HB	THR	X	404	49.382	93.893	123.484	1.00	0.00	H
ATOM	3339	CG2	THR	X	404	48.000	94.573	124.963	1.00	0.00	C
ATOM	3340	HG21	THR	X	404	47.854	95.468	125.566	1.00	0.00	H
ATOM	3341	HG22	THR	X	404	47.244	94.586	124.177	1.00	0.00	H
ATOM	3342	HG23	THR	X	404	47.721	93.752	125.622	1.00	0.00	H
ATOM	3343	OG1	THR	X	404	49.738	95.766	123.880	1.00	0.00	O
ATOM	3344	HG1	THR	X	404	49.059	96.181	123.345	1.00	0.00	H
ATOM	3345	C	THR	X	404	51.786	94.181	124.815	1.00	0.00	C
ATOM	3346	O	THR	X	404	52.364	95.228	124.824	1.00	0.00	O
ATOM	3347	N	SER	X	405	52.373	93.126	124.174	1.00	0.00	N
ATOM	3348	H	SER	X	405	51.781	92.337	123.957	1.00	0.00	H
ATOM	3349	CA	SER	X	405	53.734	93.086	123.750	1.00	0.00	C
ATOM	3350	HA	SER	X	405	54.136	94.044	123.422	1.00	0.00	H
ATOM	3351	CB	SER	X	405	54.482	92.747	125.036	1.00	0.00	C
ATOM	3352	HB2	SER	X	405	54.184	93.397	125.858	1.00	0.00	H
ATOM	3353	HB3	SER	X	405	54.376	91.698	125.314	1.00	0.00	H
ATOM	3354	OG	SER	X	405	55.832	92.804	124.826	1.00	0.00	O
ATOM	3355	HG	SER	X	405	56.292	92.892	125.664	1.00	0.00	H
ATOM	3356	C	SER	X	405	53.977	92.166	122.481	1.00	0.00	C
ATOM	3357	O	SER	X	405	53.081	91.833	121.758	1.00	0.00	O
ATOM	3358	N	ARG	X	406	55.207	91.972	122.169	1.00	0.00	N
ATOM	3359	H	ARG	X	406	55.855	92.192	122.911	1.00	0.00	H
ATOM	3360	CA	ARG	X	406	55.700	91.452	120.862	1.00	0.00	C

ATOM	3361	HA	ARG	X	406	54.864	90.966	120.360	1.00	0.00	H
ATOM	3362	CB	ARG	X	406	56.122	92.658	120.035	1.00	0.00	C
ATOM	3363	HB2	ARG	X	406	55.343	93.418	119.988	1.00	0.00	H
ATOM	3364	HB3	ARG	X	406	57.043	93.119	120.394	1.00	0.00	H
ATOM	3365	CG	ARG	X	406	56.287	92.411	118.484	1.00	0.00	C
ATOM	3366	HG2	ARG	X	406	57.040	91.642	118.306	1.00	0.00	H
ATOM	3367	HG3	ARG	X	406	55.393	91.984	118.031	1.00	0.00	H
ATOM	3368	CD	ARG	X	406	56.876	93.581	117.759	1.00	0.00	C
ATOM	3369	HD2	ARG	X	406	56.252	94.448	117.977	1.00	0.00	H
ATOM	3370	HD3	ARG	X	406	57.894	93.847	118.040	1.00	0.00	H
ATOM	3371	NE	ARG	X	406	56.875	93.381	116.297	1.00	0.00	N
ATOM	3372	HE	ARG	X	406	56.421	92.582	115.880	1.00	0.00	H
ATOM	3373	CZ	ARG	X	406	57.486	94.238	115.472	1.00	0.00	C
ATOM	3374	NH1	ARG	X	406	58.076	95.301	115.995	1.00	0.00	N
ATOM	3375	HH11	ARG	X	406	57.754	95.628	116.896	1.00	0.00	H
ATOM	3376	HH12	ARG	X	406	58.522	96.012	115.433	1.00	0.00	H
ATOM	3377	NH2	ARG	X	406	57.607	93.922	114.221	1.00	0.00	N
ATOM	3378	HH21	ARG	X	406	57.016	93.213	113.813	1.00	0.00	H
ATOM	3379	HH22	ARG	X	406	58.132	94.509	113.587	1.00	0.00	H
ATOM	3380	C	ARG	X	406	56.840	90.389	120.981	1.00	0.00	C
ATOM	3381	O	ARG	X	406	57.703	90.547	121.883	1.00	0.00	O
ATOM	3382	N	PRO	X	407	56.893	89.302	120.203	1.00	0.00	N
ATOM	3383	CD	PRO	X	407	55.936	88.957	119.222	1.00	0.00	C
ATOM	3384	HD2	PRO	X	407	56.171	89.532	118.326	1.00	0.00	H
ATOM	3385	HD3	PRO	X	407	54.947	89.266	119.561	1.00	0.00	H
ATOM	3386	CG	PRO	X	407	56.047	87.498	118.901	1.00	0.00	C
ATOM	3387	HG2	PRO	X	407	55.835	87.200	117.873	1.00	0.00	H
ATOM	3388	HG3	PRO	X	407	55.472	86.873	119.585	1.00	0.00	H
ATOM	3389	CB	PRO	X	407	57.500	87.207	119.239	1.00	0.00	C
ATOM	3390	HB2	PRO	X	407	58.141	87.630	118.468	1.00	0.00	H
ATOM	3391	HB3	PRO	X	407	57.653	86.134	119.352	1.00	0.00	H
ATOM	3392	CA	PRO	X	407	57.695	88.064	120.488	1.00	0.00	C
ATOM	3393	HA	PRO	X	407	57.324	87.522	121.357	1.00	0.00	H
ATOM	3394	C	PRO	X	407	59.235	88.285	120.743	1.00	0.00	C
ATOM	3395	O	PRO	X	407	59.830	87.499	121.500	1.00	0.00	O
ATOM	3396	N	ASP	X	408	59.883	89.276	120.155	1.00	0.00	N
ATOM	3397	H	ASP	X	408	59.351	89.663	119.388	1.00	0.00	H
ATOM	3398	CA	ASP	X	408	61.245	89.650	120.367	1.00	0.00	C
ATOM	3399	HA	ASP	X	408	61.940	88.813	120.292	1.00	0.00	H
ATOM	3400	CB	ASP	X	408	61.687	90.655	119.272	1.00	0.00	C
ATOM	3401	HB2	ASP	X	408	61.571	90.244	118.269	1.00	0.00	H
ATOM	3402	HB3	ASP	X	408	60.990	91.491	119.329	1.00	0.00	H
ATOM	3403	CG	ASP	X	408	63.094	91.244	119.490	1.00	0.00	C
ATOM	3404	OD1	ASP	X	408	63.957	90.522	119.990	1.00	0.00	O
ATOM	3405	OD2	ASP	X	408	63.390	92.343	119.003	1.00	0.00	O
ATOM	3406	C	ASP	X	408	61.415	90.270	121.807	1.00	0.00	C
ATOM	3407	O	ASP	X	408	62.277	89.784	122.534	1.00	0.00	O
ATOM	3408	N	ALA	X	409	60.603	91.349	122.153	1.00	0.00	N
ATOM	3409	H	ALA	X	409	60.039	91.711	121.396	1.00	0.00	H
ATOM	3410	CA	ALA	X	409	60.700	92.170	123.378	1.00	0.00	C
ATOM	3411	HA	ALA	X	409	61.770	92.341	123.493	1.00	0.00	H
ATOM	3412	CB	ALA	X	409	60.073	93.576	123.090	1.00	0.00	C
ATOM	3413	HB1	ALA	X	409	60.407	94.269	123.862	1.00	0.00	H
ATOM	3414	HB2	ALA	X	409	60.428	93.972	122.138	1.00	0.00	H
ATOM	3415	HB3	ALA	X	409	58.985	93.511	123.056	1.00	0.00	H
ATOM	3416	C	ALA	X	409	60.278	91.550	124.769	1.00	0.00	C
ATOM	3417	O	ALA	X	409	60.799	91.993	125.786	1.00	0.00	O
ATOM	3418	N	VAL	X	410	59.367	90.562	124.724	1.00	0.00	N
ATOM	3419	H	VAL	X	410	58.889	90.542	123.835	1.00	0.00	H
ATOM	3420	CA	VAL	X	410	58.960	89.780	125.850	1.00	0.00	C
ATOM	3421	HA	VAL	X	410	58.674	90.483	126.633	1.00	0.00	H
ATOM	3422	CB	VAL	X	410	57.776	88.777	125.758	1.00	0.00	C
ATOM	3423	HB	VAL	X	410	57.605	88.232	126.687	1.00	0.00	H
ATOM	3424	CG1	VAL	X	410	56.573	89.602	125.433	1.00	0.00	C
ATOM	3425	HG11	VAL	X	410	56.524	90.174	124.507	1.00	0.00	H
ATOM	3426	HG12	VAL	X	410	55.783	88.852	125.381	1.00	0.00	H
ATOM	3427	HG13	VAL	X	410	56.305	90.208	126.298	1.00	0.00	H
ATOM	3428	CG2	VAL	X	410	58.028	87.754	124.634	1.00	0.00	C
ATOM	3429	HG21	VAL	X	410	58.255	88.222	123.676	1.00	0.00	H
ATOM	3430	HG22	VAL	X	410	58.937	87.194	124.855	1.00	0.00	H
ATOM	3431	HG23	VAL	X	410	57.243	87.003	124.545	1.00	0.00	H
ATOM	3432	C	VAL	X	410	60.145	88.891	126.360	1.00	0.00	C
ATOM	3433	O	VAL	X	410	61.062	88.470	125.632	1.00	0.00	O
ATOM	3434	N	SER	X	411	60.197	88.742	127.704	1.00	0.00	N
ATOM	3435	H	SER	X	411	59.322	89.037	128.115	1.00	0.00	H
ATOM	3436	CA	SER	X	411	61.425	88.438	128.494	1.00	0.00	C
ATOM	3437	HA	SER	X	411	61.889	87.602	127.970	1.00	0.00	H
ATOM	3438	CB	SER	X	411	62.379	89.675	128.668	1.00	0.00	C
ATOM	3439	HB2	SER	X	411	63.306	89.313	129.113	1.00	0.00	H
ATOM	3440	HB3	SER	X	411	62.581	90.021	127.655	1.00	0.00	H
ATOM	3441	OG	SER	X	411	61.742	90.708	129.428	1.00	0.00	O
ATOM	3442	HG	SER	X	411	62.418	91.381	129.543	1.00	0.00	H

ATOM	3443	C	SER	X	411	61.123	88.009	129.935	1.00	0.00	C
ATOM	3444	O	SER	X	411	60.052	88.217	130.525	1.00	0.00	O
ATOM	3445	N	ALA	X	412	62.203	87.523	130.640	1.00	0.00	N
ATOM	3446	H	ALA	X	412	63.043	87.298	130.127	1.00	0.00	H
ATOM	3447	CA	ALA	X	412	62.144	86.976	131.970	1.00	0.00	C
ATOM	3448	HA	ALA	X	412	61.385	86.196	132.053	1.00	0.00	H
ATOM	3449	CB	ALA	X	412	63.494	86.405	132.145	1.00	0.00	C
ATOM	3450	HB1	ALA	X	412	63.766	85.699	131.360	1.00	0.00	H
ATOM	3451	HB2	ALA	X	412	64.279	87.155	132.234	1.00	0.00	H
ATOM	3452	HB3	ALA	X	412	63.528	85.766	133.028	1.00	0.00	H
ATOM	3453	C	ALA	X	412	61.748	88.007	133.084	1.00	0.00	C
ATOM	3454	O	ALA	X	412	61.264	87.499	134.144	1.00	0.00	O
ATOM	3455	N	PHE	X	413	61.830	89.303	132.785	1.00	0.00	N
ATOM	3456	H	PHE	X	413	62.180	89.455	131.850	1.00	0.00	H
ATOM	3457	CA	PHE	X	413	61.394	90.387	133.669	1.00	0.00	C
ATOM	3458	HA	PHE	X	413	61.973	90.281	134.587	1.00	0.00	H
ATOM	3459	CB	PHE	X	413	61.839	91.789	133.130	1.00	0.00	C
ATOM	3460	HB2	PHE	X	413	62.916	91.858	133.282	1.00	0.00	H
ATOM	3461	HB3	PHE	X	413	61.657	91.659	132.064	1.00	0.00	H
ATOM	3462	CG	PHE	X	413	61.087	92.910	133.856	1.00	0.00	C
ATOM	3463	CD1	PHE	X	413	61.395	93.260	135.207	1.00	0.00	C
ATOM	3464	HD1	PHE	X	413	62.210	92.812	135.755	1.00	0.00	H
ATOM	3465	CE1	PHE	X	413	60.646	94.280	135.838	1.00	0.00	C
ATOM	3466	HE1	PHE	X	413	60.979	94.574	136.822	1.00	0.00	H
ATOM	3467	CZ	PHE	X	413	59.517	94.864	135.213	1.00	0.00	C
ATOM	3468	HZ	PHE	X	413	58.975	95.660	135.704	1.00	0.00	H
ATOM	3469	CE2	PHE	X	413	59.241	94.479	133.899	1.00	0.00	C
ATOM	3470	HE2	PHE	X	413	58.330	94.825	133.435	1.00	0.00	H
ATOM	3471	CD2	PHE	X	413	59.965	93.486	133.220	1.00	0.00	C
ATOM	3472	HD2	PHE	X	413	59.727	93.191	132.210	1.00	0.00	H
ATOM	3473	C	PHE	X	413	59.885	90.264	134.024	1.00	0.00	C
ATOM	3474	O	PHE	X	413	59.512	90.498	135.169	1.00	0.00	O
ATOM	3475	N	LEU	X	414	59.000	89.898	133.070	1.00	0.00	N
ATOM	3476	H	LEU	X	414	59.462	89.861	132.172	1.00	0.00	H
ATOM	3477	CA	LEU	X	414	57.496	89.743	133.233	1.00	0.00	C
ATOM	3478	HA	LEU	X	414	57.153	90.542	133.890	1.00	0.00	H
ATOM	3479	CB	LEU	X	414	56.731	89.869	131.965	1.00	0.00	C
ATOM	3480	HB2	LEU	X	414	57.181	89.145	131.286	1.00	0.00	H
ATOM	3481	HB3	LEU	X	414	55.679	89.584	131.956	1.00	0.00	H
ATOM	3482	CG	LEU	X	414	56.816	91.281	131.329	1.00	0.00	C
ATOM	3483	HG	LEU	X	414	57.822	91.637	131.103	1.00	0.00	H
ATOM	3484	CD1	LEU	X	414	55.918	91.313	130.083	1.00	0.00	C
ATOM	3485	HD11	LEU	X	414	55.601	92.280	129.694	1.00	0.00	H
ATOM	3486	HD12	LEU	X	414	56.461	90.813	129.281	1.00	0.00	H
ATOM	3487	HD13	LEU	X	414	54.966	90.814	130.266	1.00	0.00	H
ATOM	3488	CD2	LEU	X	414	56.187	92.321	132.222	1.00	0.00	C
ATOM	3489	HD21	LEU	X	414	56.287	93.256	131.673	1.00	0.00	H
ATOM	3490	HD22	LEU	X	414	55.121	92.132	132.341	1.00	0.00	H
ATOM	3491	HD23	LEU	X	414	56.799	92.409	133.121	1.00	0.00	H
ATOM	3492	C	LEU	X	414	57.128	88.411	133.865	1.00	0.00	C
ATOM	3493	O	LEU	X	414	56.037	88.347	134.396	1.00	0.00	O
ATOM	3494	N	ARG	X	415	57.990	87.360	133.918	1.00	0.00	N
ATOM	3495	H	ARG	X	415	58.895	87.450	133.478	1.00	0.00	H
ATOM	3496	CA	ARG	X	415	57.570	86.004	134.357	1.00	0.00	C
ATOM	3497	HA	ARG	X	415	56.560	85.806	133.997	1.00	0.00	H
ATOM	3498	CB	ARG	X	415	58.546	84.948	133.841	1.00	0.00	C
ATOM	3499	HB2	ARG	X	415	59.586	85.137	134.110	1.00	0.00	H
ATOM	3500	HB3	ARG	X	415	58.264	83.947	134.170	1.00	0.00	H
ATOM	3501	CG	ARG	X	415	58.683	85.009	132.272	1.00	0.00	C
ATOM	3502	HG2	ARG	X	415	59.041	85.987	131.951	1.00	0.00	H
ATOM	3503	HG3	ARG	X	415	59.409	84.274	131.926	1.00	0.00	H
ATOM	3504	CD	ARG	X	415	57.409	84.759	131.491	1.00	0.00	C
ATOM	3505	HD2	ARG	X	415	57.110	83.715	131.594	1.00	0.00	H
ATOM	3506	HD3	ARG	X	415	56.606	85.421	131.816	1.00	0.00	H
ATOM	3507	NE	ARG	X	415	57.612	84.983	130.096	1.00	0.00	N
ATOM	3508	HE	ARG	X	415	58.578	85.007	129.803	1.00	0.00	H
ATOM	3509	CZ	ARG	X	415	56.680	85.276	129.228	1.00	0.00	C
ATOM	3510	NH1	ARG	X	415	55.398	85.067	129.456	1.00	0.00	N
ATOM	3511	HH11	ARG	X	415	55.116	84.574	130.290	1.00	0.00	H
ATOM	3512	HH12	ARG	X	415	54.824	85.127	128.627	1.00	0.00	H
ATOM	3513	NH2	ARG	X	415	57.020	85.495	127.986	1.00	0.00	N
ATOM	3514	HH21	ARG	X	415	57.977	85.634	127.693	1.00	0.00	H
ATOM	3515	HH22	ARG	X	415	56.238	85.459	127.347	1.00	0.00	H
ATOM	3516	C	ARG	X	415	57.220	86.042	135.921	1.00	0.00	C
ATOM	3517	O	ARG	X	415	56.406	85.212	136.335	1.00	0.00	O
ATOM	3518	N	LYS	X	416	57.762	86.984	136.758	1.00	0.00	N
ATOM	3519	H	LYS	X	416	58.411	87.656	136.374	1.00	0.00	H
ATOM	3520	CA	LYS	X	416	57.335	87.016	138.148	1.00	0.00	C
ATOM	3521	HA	LYS	X	416	57.391	85.964	138.430	1.00	0.00	H
ATOM	3522	CB	LYS	X	416	58.329	87.767	138.940	1.00	0.00	C
ATOM	3523	HB2	LYS	X	416	59.294	87.260	138.913	1.00	0.00	H
ATOM	3524	HB3	LYS	X	416	58.372	88.737	138.443	1.00	0.00	H

ATOM	3525	CG	LYS	X	416	57.896	87.791	140.430	1.00	0.00	C
ATOM	3526	HG2	LYS	X	416	56.930	88.276	140.571	1.00	0.00	H
ATOM	3527	HG3	LYS	X	416	57.860	86.757	140.769	1.00	0.00	H
ATOM	3528	CD	LYS	X	416	58.808	88.700	141.280	1.00	0.00	C
ATOM	3529	HD2	LYS	X	416	59.824	88.317	141.178	1.00	0.00	H
ATOM	3530	HD3	LYS	X	416	58.850	89.756	141.019	1.00	0.00	H
ATOM	3531	CE	LYS	X	416	58.304	88.544	142.702	1.00	0.00	C
ATOM	3532	HE2	LYS	X	416	58.060	87.532	143.029	1.00	0.00	H
ATOM	3533	HE3	LYS	X	416	59.152	88.801	143.336	1.00	0.00	H
ATOM	3534	NZ	LYS	X	416	57.207	89.476	143.006	1.00	0.00	N
ATOM	3535	HZ1	LYS	X	416	57.402	90.391	142.625	1.00	0.00	H
ATOM	3536	HZ2	LYS	X	416	56.399	89.186	142.475	1.00	0.00	H
ATOM	3537	HZ3	LYS	X	416	57.083	89.405	144.006	1.00	0.00	H
ATOM	3538	C	LYS	X	416	55.882	87.586	138.245	1.00	0.00	C
ATOM	3539	O	LYS	X	416	55.128	87.125	139.119	1.00	0.00	O
ATOM	3540	N	TYR	X	417	55.464	88.446	137.306	1.00	0.00	N
ATOM	3541	H	TYR	X	417	56.068	88.703	136.538	1.00	0.00	H
ATOM	3542	CA	TYR	X	417	54.280	89.232	137.513	1.00	0.00	C
ATOM	3543	HA	TYR	X	417	54.146	89.187	138.594	1.00	0.00	H
ATOM	3544	CB	TYR	X	417	54.503	90.682	137.126	1.00	0.00	C
ATOM	3545	HB2	TYR	X	417	54.317	90.757	136.054	1.00	0.00	H
ATOM	3546	HB3	TYR	X	417	53.726	91.230	137.659	1.00	0.00	H
ATOM	3547	CG	TYR	X	417	55.777	91.358	137.682	1.00	0.00	C
ATOM	3548	CD1	TYR	X	417	56.796	91.725	136.793	1.00	0.00	C
ATOM	3549	HD1	TYR	X	417	56.884	91.472	135.747	1.00	0.00	H
ATOM	3550	CE1	TYR	X	417	57.810	92.474	137.310	1.00	0.00	C
ATOM	3551	HE1	TYR	X	417	58.619	92.720	136.638	1.00	0.00	H
ATOM	3552	CZ	TYR	X	417	57.952	92.711	138.695	1.00	0.00	C
ATOM	3553	OH	TYR	X	417	59.056	93.365	139.105	1.00	0.00	O
ATOM	3554	HH	TYR	X	417	58.929	93.676	140.005	1.00	0.00	H
ATOM	3555	CE2	TYR	X	417	57.049	92.244	139.625	1.00	0.00	C
ATOM	3556	HE2	TYR	X	417	57.100	92.512	140.671	1.00	0.00	H
ATOM	3557	CD2	TYR	X	417	55.873	91.563	139.116	1.00	0.00	C
ATOM	3558	HD2	TYR	X	417	55.104	91.303	139.828	1.00	0.00	H
ATOM	3559	C	TYR	X	417	53.032	88.655	136.808	1.00	0.00	C
ATOM	3560	O	TYR	X	417	51.861	88.935	137.181	1.00	0.00	O
ATOM	3561	N	VAL	X	418	53.251	87.968	135.720	1.00	0.00	N
ATOM	3562	H	VAL	X	418	54.189	87.621	135.587	1.00	0.00	H
ATOM	3563	CA	VAL	X	418	52.266	87.584	134.724	1.00	0.00	C
ATOM	3564	HA	VAL	X	418	51.510	88.362	134.627	1.00	0.00	H
ATOM	3565	CB	VAL	X	418	52.966	87.450	133.361	1.00	0.00	C
ATOM	3566	HB	VAL	X	418	53.794	86.744	133.420	1.00	0.00	H
ATOM	3567	CG1	VAL	X	418	52.060	86.801	132.241	1.00	0.00	C
ATOM	3568	HG11	VAL	X	418	52.581	86.788	131.284	1.00	0.00	H
ATOM	3569	HG12	VAL	X	418	51.669	85.849	132.602	1.00	0.00	H
ATOM	3570	HG13	VAL	X	418	51.187	87.440	132.114	1.00	0.00	H
ATOM	3571	CG2	VAL	X	418	53.311	88.839	132.817	1.00	0.00	C
ATOM	3572	HG21	VAL	X	418	53.870	89.325	133.618	1.00	0.00	H
ATOM	3573	HG22	VAL	X	418	53.835	88.782	131.864	1.00	0.00	H
ATOM	3574	HG23	VAL	X	418	52.404	89.443	132.789	1.00	0.00	H
ATOM	3575	C	VAL	X	418	51.572	86.300	135.235	1.00	0.00	C
ATOM	3576	O	VAL	X	418	52.208	85.309	135.364	1.00	0.00	O
ATOM	3577	N	ARG	X	419	50.207	86.349	135.282	1.00	0.00	N
ATOM	3578	H	ARG	X	419	49.740	87.209	135.034	1.00	0.00	H
ATOM	3579	CA	ARG	X	419	49.365	85.194	135.659	1.00	0.00	C
ATOM	3580	HA	ARG	X	419	49.887	84.404	136.200	1.00	0.00	H
ATOM	3581	CB	ARG	X	419	48.159	85.746	136.319	1.00	0.00	C
ATOM	3582	HB2	ARG	X	419	48.059	85.219	137.268	1.00	0.00	H
ATOM	3583	HB3	ARG	X	419	48.365	86.803	136.484	1.00	0.00	H
ATOM	3584	CG	ARG	X	419	46.914	85.705	135.501	1.00	0.00	C
ATOM	3585	HG2	ARG	X	419	47.144	86.022	134.483	1.00	0.00	H
ATOM	3586	HG3	ARG	X	419	46.502	84.701	135.598	1.00	0.00	H
ATOM	3587	CD	ARG	X	419	45.871	86.703	136.028	1.00	0.00	C
ATOM	3588	HD2	ARG	X	419	46.095	87.768	135.970	1.00	0.00	H
ATOM	3589	HD3	ARG	X	419	44.982	86.615	135.406	1.00	0.00	H
ATOM	3590	NE	ARG	X	419	45.325	86.230	137.298	1.00	0.00	N
ATOM	3591	HE	ARG	X	419	45.526	85.301	137.640	1.00	0.00	H
ATOM	3592	CZ	ARG	X	419	44.493	86.925	138.105	1.00	0.00	C
ATOM	3593	NH1	ARG	X	419	43.954	88.096	137.769	1.00	0.00	N
ATOM	3594	HH11	ARG	X	419	43.925	88.519	136.852	1.00	0.00	H
ATOM	3595	HH12	ARG	X	419	43.308	88.442	138.462	1.00	0.00	H
ATOM	3596	NH2	ARG	X	419	44.341	86.479	139.309	1.00	0.00	N
ATOM	3597	HH21	ARG	X	419	45.062	85.851	139.632	1.00	0.00	H
ATOM	3598	HH22	ARG	X	419	43.785	87.021	139.955	1.00	0.00	H
ATOM	3599	C	ARG	X	419	49.061	84.344	134.400	1.00	0.00	C
ATOM	3600	O	ARG	X	419	48.935	83.129	134.589	1.00	0.00	O
ATOM	3601	N	THR	X	420	48.934	84.883	133.155	1.00	0.00	N
ATOM	3602	H	THR	X	420	49.070	85.861	132.945	1.00	0.00	H
ATOM	3603	CA	THR	X	420	48.519	84.181	131.870	1.00	0.00	C
ATOM	3604	HA	THR	X	420	48.957	83.190	131.987	1.00	0.00	H
ATOM	3605	CB	THR	X	420	47.021	84.180	131.630	1.00	0.00	C
ATOM	3606	HB	THR	X	420	46.643	85.171	131.379	1.00	0.00	H

ATOM	3607	CG2	THR	X	420	46.669	83.164	130.504	1.00	0.00	C
ATOM	3608	HG21	THR	X	420	45.649	82.801	130.626	1.00	0.00	H
ATOM	3609	HG22	THR	X	420	46.815	83.638	129.533	1.00	0.00	H
ATOM	3610	HG23	THR	X	420	47.314	82.302	130.676	1.00	0.00	H
ATOM	3611	OG1	THR	X	420	46.284	83.780	132.750	1.00	0.00	O
ATOM	3612	HG1	THR	X	420	45.637	84.479	132.865	1.00	0.00	H
ATOM	3613	C	THR	X	420	49.100	84.867	130.601	1.00	0.00	C
ATOM	3614	O	THR	X	420	49.025	86.069	130.385	1.00	0.00	O
ATOM	3615	N	GLU	X	421	49.604	83.995	129.694	1.00	0.00	N
ATOM	3616	H	GLU	X	421	49.518	82.997	129.826	1.00	0.00	H
ATOM	3617	CA	GLU	X	421	50.041	84.471	128.375	1.00	0.00	C
ATOM	3618	HA	GLU	X	421	49.902	85.552	128.374	1.00	0.00	H
ATOM	3619	CB	GLU	X	421	51.550	84.228	128.159	1.00	0.00	C
ATOM	3620	HB2	GLU	X	421	52.117	84.827	128.870	1.00	0.00	H
ATOM	3621	HB3	GLU	X	421	51.793	83.196	128.411	1.00	0.00	H
ATOM	3622	CG	GLU	X	421	52.063	84.500	126.673	1.00	0.00	C
ATOM	3623	HG2	GLU	X	421	51.466	83.837	126.046	1.00	0.00	H
ATOM	3624	HG3	GLU	X	421	51.824	85.532	126.413	1.00	0.00	H
ATOM	3625	CD	GLU	X	421	53.529	84.126	126.419	1.00	0.00	C
ATOM	3626	OE1	GLU	X	421	54.312	84.922	126.934	1.00	0.00	O
ATOM	3627	OE2	GLU	X	421	53.893	83.070	125.855	1.00	0.00	O
ATOM	3628	C	GLU	X	421	49.084	84.025	127.267	1.00	0.00	C
ATOM	3629	O	GLU	X	421	48.877	82.784	127.132	1.00	0.00	O
ATOM	3630	N	PHE	X	422	48.598	84.961	126.453	1.00	0.00	N
ATOM	3631	H	PHE	X	422	49.083	85.843	126.520	1.00	0.00	H
ATOM	3632	CA	PHE	X	422	47.823	84.656	125.266	1.00	0.00	C
ATOM	3633	HA	PHE	X	422	47.895	83.591	125.045	1.00	0.00	H
ATOM	3634	CB	PHE	X	422	46.352	85.110	125.403	1.00	0.00	C
ATOM	3635	HB2	PHE	X	422	46.242	86.192	125.466	1.00	0.00	H
ATOM	3636	HB3	PHE	X	422	45.825	84.615	124.587	1.00	0.00	H
ATOM	3637	CG	PHE	X	422	45.593	84.517	126.686	1.00	0.00	C
ATOM	3638	CD1	PHE	X	422	45.207	85.330	127.719	1.00	0.00	C
ATOM	3639	HD1	PHE	X	422	45.594	86.335	127.788	1.00	0.00	H
ATOM	3640	CE1	PHE	X	422	44.372	84.757	128.729	1.00	0.00	C
ATOM	3641	HE1	PHE	X	422	43.973	85.480	129.423	1.00	0.00	H
ATOM	3642	CZ	PHE	X	422	43.937	83.385	128.678	1.00	0.00	C
ATOM	3643	HZ	PHE	X	422	43.106	83.080	129.297	1.00	0.00	H
ATOM	3644	CE2	PHE	X	422	44.434	82.630	127.604	1.00	0.00	C
ATOM	3645	HE2	PHE	X	422	43.985	81.650	127.534	1.00	0.00	H
ATOM	3646	CD2	PHE	X	422	45.203	83.209	126.639	1.00	0.00	C
ATOM	3647	HD2	PHE	X	422	45.500	82.690	125.739	1.00	0.00	H
ATOM	3648	C	PHE	X	422	48.480	85.285	123.993	1.00	0.00	C
ATOM	3649	O	PHE	X	422	48.997	86.362	124.084	1.00	0.00	O
ATOM	3650	N	ASN	X	423	48.440	84.587	122.884	1.00	0.00	N
ATOM	3651	H	ASN	X	423	48.054	83.661	122.992	1.00	0.00	H
ATOM	3652	CA	ASN	X	423	48.838	85.083	121.559	1.00	0.00	C
ATOM	3653	HA	ASN	X	423	49.453	85.983	121.522	1.00	0.00	H
ATOM	3654	CB	ASN	X	423	49.650	83.866	121.065	1.00	0.00	C
ATOM	3655	HB2	ASN	X	423	50.466	83.694	121.767	1.00	0.00	H
ATOM	3656	HB3	ASN	X	423	48.949	83.040	120.947	1.00	0.00	H
ATOM	3657	CG	ASN	X	423	50.414	83.991	119.819	1.00	0.00	C
ATOM	3658	OD1	ASN	X	423	51.218	84.934	119.638	1.00	0.00	O
ATOM	3659	ND2	ASN	X	423	50.222	83.008	118.982	1.00	0.00	N
ATOM	3660	HD21	ASN	X	423	50.932	82.878	118.273	1.00	0.00	H
ATOM	3661	HD22	ASN	X	423	49.667	82.251	119.353	1.00	0.00	H
ATOM	3662	C	ASN	X	423	47.605	85.335	120.639	1.00	0.00	C
ATOM	3663	O	ASN	X	423	46.537	84.754	120.951	1.00	0.00	O
ATOM	3664	N	LEU	X	424	47.726	86.080	119.574	1.00	0.00	N
ATOM	3665	H	LEU	X	424	48.624	86.437	119.284	1.00	0.00	H
ATOM	3666	CA	LEU	X	424	46.575	86.305	118.610	1.00	0.00	C
ATOM	3667	HA	LEU	X	424	45.673	86.255	119.220	1.00	0.00	H
ATOM	3668	CB	LEU	X	424	46.662	87.635	117.872	1.00	0.00	C
ATOM	3669	HB2	LEU	X	424	47.662	87.937	117.560	1.00	0.00	H
ATOM	3670	HB3	LEU	X	424	46.073	87.485	116.967	1.00	0.00	H
ATOM	3671	CG	LEU	X	424	46.096	88.772	118.655	1.00	0.00	C
ATOM	3672	HG	LEU	X	424	45.128	88.477	119.058	1.00	0.00	H
ATOM	3673	CD1	LEU	X	424	46.940	89.145	119.900	1.00	0.00	C
ATOM	3674	HD11	LEU	X	424	46.867	88.252	120.522	1.00	0.00	H
ATOM	3675	HD12	LEU	X	424	47.982	89.311	119.626	1.00	0.00	H
ATOM	3676	HD13	LEU	X	424	46.587	90.005	120.470	1.00	0.00	H
ATOM	3677	CD2	LEU	X	424	45.965	89.992	117.779	1.00	0.00	C
ATOM	3678	HD21	LEU	X	424	45.390	89.754	116.885	1.00	0.00	H
ATOM	3679	HD22	LEU	X	424	45.364	90.713	118.331	1.00	0.00	H
ATOM	3680	HD23	LEU	X	424	46.956	90.374	117.534	1.00	0.00	H
ATOM	3681	C	LEU	X	424	46.443	85.074	117.677	1.00	0.00	C
ATOM	3682	O	LEU	X	424	47.385	84.682	116.986	1.00	0.00	O
ATOM	3683	N	LYS	X	425	45.245	84.526	117.412	1.00	0.00	N
ATOM	3684	H	LYS	X	425	44.437	84.939	117.854	1.00	0.00	H
ATOM	3685	CA	LYS	X	425	44.998	83.477	116.408	1.00	0.00	C
ATOM	3686	HA	LYS	X	425	45.745	82.705	116.590	1.00	0.00	H
ATOM	3687	CB	LYS	X	425	43.651	82.851	116.627	1.00	0.00	C
ATOM	3688	HB2	LYS	X	425	42.992	83.561	117.126	1.00	0.00	H

ATOM	3689	HB3	LYS	X	425	43.117	82.536	115.731	1.00	0.00	H
ATOM	3690	CG	LYS	X	425	43.606	81.634	117.615	1.00	0.00	C
ATOM	3691	HG2	LYS	X	425	43.956	81.940	118.600	1.00	0.00	H
ATOM	3692	HG3	LYS	X	425	42.541	81.408	117.588	1.00	0.00	H
ATOM	3693	CD	LYS	X	425	44.309	80.364	117.130	1.00	0.00	C
ATOM	3694	HD2	LYS	X	425	43.913	80.165	116.134	1.00	0.00	H
ATOM	3695	HD3	LYS	X	425	45.384	80.541	117.162	1.00	0.00	H
ATOM	3696	CE	LYS	X	425	43.875	79.176	118.006	1.00	0.00	C
ATOM	3697	HE2	LYS	X	425	44.042	79.425	119.054	1.00	0.00	H
ATOM	3698	HE3	LYS	X	425	42.844	78.926	117.751	1.00	0.00	H
ATOM	3699	NZ	LYS	X	425	44.694	78.034	117.535	1.00	0.00	N
ATOM	3700	HZ1	LYS	X	425	44.385	77.169	117.954	1.00	0.00	H
ATOM	3701	HZ2	LYS	X	425	44.497	77.940	116.549	1.00	0.00	H
ATOM	3702	HZ3	LYS	X	425	45.682	78.167	117.692	1.00	0.00	H
ATOM	3703	C	LYS	X	425	45.160	84.033	114.965	1.00	0.00	C
ATOM	3704	O	LYS	X	425	44.570	85.050	114.662	1.00	0.00	O
ATOM	3705	N	GLY	X	426	45.732	83.281	114.032	1.00	0.00	N
ATOM	3706	H	GLY	X	426	46.220	82.461	114.362	1.00	0.00	H
ATOM	3707	CA	GLY	X	426	45.889	83.631	112.578	1.00	0.00	C
ATOM	3708	HA2	GLY	X	426	46.473	84.551	112.526	1.00	0.00	H
ATOM	3709	HA3	GLY	X	426	46.467	82.833	112.112	1.00	0.00	H
ATOM	3710	C	GLY	X	426	44.541	83.794	111.864	1.00	0.00	C
ATOM	3711	O	GLY	X	426	43.572	83.191	112.255	1.00	0.00	O
ATOM	3712	N	PHE	X	427	44.621	84.702	110.843	1.00	0.00	N
ATOM	3713	H	PHE	X	427	45.546	85.037	110.617	1.00	0.00	H
ATOM	3714	CA	PHE	X	427	43.415	85.274	110.297	1.00	0.00	C
ATOM	3715	HA	PHE	X	427	42.644	85.063	111.038	1.00	0.00	H
ATOM	3716	CB	PHE	X	427	43.551	86.829	110.256	1.00	0.00	C
ATOM	3717	HB2	PHE	X	427	43.726	87.204	111.265	1.00	0.00	H
ATOM	3718	HB3	PHE	X	427	44.338	87.148	109.573	1.00	0.00	H
ATOM	3719	CG	PHE	X	427	42.216	87.484	109.854	1.00	0.00	C
ATOM	3720	CD1	PHE	X	427	41.091	87.256	110.604	1.00	0.00	C
ATOM	3721	HD1	PHE	X	427	40.923	86.476	111.333	1.00	0.00	H
ATOM	3722	CE1	PHE	X	427	39.994	88.149	110.380	1.00	0.00	C
ATOM	3723	HE1	PHE	X	427	39.121	88.189	111.015	1.00	0.00	H
ATOM	3724	CZ	PHE	X	427	40.061	89.245	109.504	1.00	0.00	C
ATOM	3725	HZ	PHE	X	427	39.219	89.906	109.367	1.00	0.00	H
ATOM	3726	CE2	PHE	X	427	41.265	89.464	108.831	1.00	0.00	C
ATOM	3727	HE2	PHE	X	427	41.355	90.233	108.077	1.00	0.00	H
ATOM	3728	CD2	PHE	X	427	42.282	88.539	108.915	1.00	0.00	C
ATOM	3729	HD2	PHE	X	427	43.266	88.724	108.513	1.00	0.00	H
ATOM	3730	C	PHE	X	427	43.182	84.700	108.865	1.00	0.00	C
ATOM	3731	O	PHE	X	427	44.124	84.367	108.118	1.00	0.00	O
ATOM	3732	N	SER	X	428	41.927	84.601	108.404	1.00	0.00	N
ATOM	3733	H	SER	X	428	41.143	84.780	109.018	1.00	0.00	H
ATOM	3734	CA	SER	X	428	41.608	83.669	107.265	1.00	0.00	C
ATOM	3735	HA	SER	X	428	42.536	83.582	106.698	1.00	0.00	H
ATOM	3736	CB	SER	X	428	41.122	82.333	107.778	1.00	0.00	C
ATOM	3737	HB2	SER	X	428	40.993	81.617	106.967	1.00	0.00	H
ATOM	3738	HB3	SER	X	428	41.750	81.856	108.531	1.00	0.00	H
ATOM	3739	OG	SER	X	428	39.824	82.459	108.356	1.00	0.00	O
ATOM	3740	HG	SER	X	428	39.799	82.966	109.171	1.00	0.00	H
ATOM	3741	C	SER	X	428	40.711	84.325	106.222	1.00	0.00	C
ATOM	3742	O	SER	X	428	39.972	85.228	106.530	1.00	0.00	O
ATOM	3743	N	GLU	X	429	40.639	83.735	105.054	1.00	0.00	N
ATOM	3744	H	GLU	X	429	41.020	82.799	105.081	1.00	0.00	H
ATOM	3745	CA	GLU	X	429	39.812	84.248	103.918	1.00	0.00	C
ATOM	3746	HA	GLU	X	429	40.143	85.235	103.593	1.00	0.00	H
ATOM	3747	CB	GLU	X	429	40.060	83.264	102.755	1.00	0.00	C
ATOM	3748	HB2	GLU	X	429	39.618	83.608	101.822	1.00	0.00	H
ATOM	3749	HB3	GLU	X	429	41.136	83.170	102.602	1.00	0.00	H
ATOM	3750	CG	GLU	X	429	39.515	81.746	102.909	1.00	0.00	C
ATOM	3751	HG2	GLU	X	429	38.434	81.754	103.046	1.00	0.00	H
ATOM	3752	HG3	GLU	X	429	39.625	81.304	101.918	1.00	0.00	H
ATOM	3753	CD	GLU	X	429	40.230	80.938	104.042	1.00	0.00	C
ATOM	3754	OE1	GLU	X	429	41.461	81.120	104.166	1.00	0.00	O
ATOM	3755	OE2	GLU	X	429	39.526	80.211	104.797	1.00	0.00	O
ATOM	3756	C	GLU	X	429	38.341	84.240	104.323	1.00	0.00	C
ATOM	3757	O	GLU	X	429	37.667	85.179	103.968	1.00	0.00	O
ATOM	3758	N	GLU	X	430	37.865	83.337	105.172	1.00	0.00	N
ATOM	3759	H	GLU	X	430	38.414	82.521	105.406	1.00	0.00	H
ATOM	3760	CA	GLU	X	430	36.460	83.399	105.664	1.00	0.00	C
ATOM	3761	HA	GLU	X	430	35.837	83.624	104.798	1.00	0.00	H
ATOM	3762	CB	GLU	X	430	36.047	82.016	106.187	1.00	0.00	C
ATOM	3763	HB2	GLU	X	430	36.862	81.755	106.861	1.00	0.00	H
ATOM	3764	HB3	GLU	X	430	35.131	82.174	106.756	1.00	0.00	H
ATOM	3765	CG	GLU	X	430	35.844	80.945	105.172	1.00	0.00	C
ATOM	3766	HG2	GLU	X	430	36.814	80.755	104.713	1.00	0.00	H
ATOM	3767	HG3	GLU	X	430	35.717	80.007	105.712	1.00	0.00	H
ATOM	3768	CD	GLU	X	430	34.750	81.135	104.036	1.00	0.00	C
ATOM	3769	OE1	GLU	X	430	34.808	80.384	103.030	1.00	0.00	O
ATOM	3770	OE2	GLU	X	430	33.936	82.050	104.109	1.00	0.00	O

ATOM	3771	C	GLU	X	430	36.301	84.474	106.747	1.00	0.00	C
ATOM	3772	O	GLU	X	430	35.156	85.003	106.867	1.00	0.00	O
ATOM	3773	N	GLY	X	431	37.296	84.803	107.511	1.00	0.00	N
ATOM	3774	H	GLY	X	431	38.169	84.299	107.491	1.00	0.00	H
ATOM	3775	CA	GLY	X	431	37.281	85.966	108.445	1.00	0.00	C
ATOM	3776	HA2	GLY	X	431	36.436	85.994	109.134	1.00	0.00	H
ATOM	3777	HA3	GLY	X	431	38.095	85.913	109.166	1.00	0.00	H
ATOM	3778	C	GLY	X	431	37.374	87.391	107.796	1.00	0.00	C
ATOM	3779	O	GLY	X	431	36.624	88.291	108.147	1.00	0.00	O
ATOM	3780	N	ILE	X	432	38.187	87.466	106.745	1.00	0.00	N
ATOM	3781	H	ILE	X	432	38.669	86.653	106.388	1.00	0.00	H
ATOM	3782	CA	ILE	X	432	38.227	88.637	105.945	1.00	0.00	C
ATOM	3783	HA	ILE	X	432	38.339	89.579	106.481	1.00	0.00	H
ATOM	3784	CB	ILE	X	432	39.395	88.509	104.911	1.00	0.00	C
ATOM	3785	HB	ILE	X	432	39.314	87.528	104.446	1.00	0.00	H
ATOM	3786	CG2	ILE	X	432	39.303	89.474	103.755	1.00	0.00	C
ATOM	3787	HG21	ILE	X	432	40.077	89.204	103.036	1.00	0.00	H
ATOM	3788	HG22	ILE	X	432	38.432	89.315	103.119	1.00	0.00	H
ATOM	3789	HG23	ILE	X	432	39.379	90.534	103.998	1.00	0.00	H
ATOM	3790	CG1	ILE	X	432	40.742	88.596	105.600	1.00	0.00	C
ATOM	3791	HG12	ILE	X	432	41.005	89.614	105.890	1.00	0.00	H
ATOM	3792	HG13	ILE	X	432	40.717	88.108	106.573	1.00	0.00	H
ATOM	3793	CD1	ILE	X	432	41.826	87.950	104.676	1.00	0.00	C
ATOM	3794	HD11	ILE	X	432	41.557	86.970	104.279	1.00	0.00	H
ATOM	3795	HD12	ILE	X	432	41.809	88.686	103.872	1.00	0.00	H
ATOM	3796	HD13	ILE	X	432	42.781	87.986	105.201	1.00	0.00	H
ATOM	3797	C	ILE	X	432	36.960	88.841	105.095	1.00	0.00	C
ATOM	3798	O	ILE	X	432	36.386	89.908	105.030	1.00	0.00	O
ATOM	3799	N	GLU	X	433	36.443	87.745	104.498	1.00	0.00	N
ATOM	3800	H	GLU	X	433	37.045	86.934	104.523	1.00	0.00	H
ATOM	3801	CA	GLU	X	433	35.155	87.812	103.728	1.00	0.00	C
ATOM	3802	HA	GLU	X	433	35.207	88.553	102.932	1.00	0.00	H
ATOM	3803	CB	GLU	X	433	34.888	86.453	103.057	1.00	0.00	C
ATOM	3804	HB2	GLU	X	433	35.741	86.175	102.439	1.00	0.00	H
ATOM	3805	HB3	GLU	X	433	34.706	85.673	103.797	1.00	0.00	H
ATOM	3806	CG	GLU	X	433	33.685	86.356	102.083	1.00	0.00	C
ATOM	3807	HG2	GLU	X	433	32.870	86.847	102.614	1.00	0.00	H
ATOM	3808	HG3	GLU	X	433	33.887	86.895	101.157	1.00	0.00	H
ATOM	3809	CD	GLU	X	433	33.376	84.925	101.545	1.00	0.00	C
ATOM	3810	OE1	GLU	X	433	34.302	84.205	101.224	1.00	0.00	O
ATOM	3811	OE2	GLU	X	433	32.184	84.667	101.249	1.00	0.00	O
ATOM	3812	C	GLU	X	433	34.041	88.249	104.625	1.00	0.00	C
ATOM	3813	O	GLU	X	433	33.266	89.181	104.233	1.00	0.00	O
ATOM	3814	N	LEU	X	434	33.916	87.709	105.869	1.00	0.00	N
ATOM	3815	H	LEU	X	434	34.501	86.970	106.235	1.00	0.00	H
ATOM	3816	CA	LEU	X	434	32.851	88.036	106.802	1.00	0.00	C
ATOM	3817	HA	LEU	X	434	31.896	88.005	106.276	1.00	0.00	H
ATOM	3818	CB	LEU	X	434	32.927	87.113	108.054	1.00	0.00	C
ATOM	3819	HB2	LEU	X	434	32.720	86.095	107.726	1.00	0.00	H
ATOM	3820	HB3	LEU	X	434	33.930	86.980	108.460	1.00	0.00	H
ATOM	3821	CG	LEU	X	434	31.950	87.475	109.179	1.00	0.00	C
ATOM	3822	HG	LEU	X	434	32.034	88.524	109.461	1.00	0.00	H
ATOM	3823	CD1	LEU	X	434	30.535	87.208	108.723	1.00	0.00	C
ATOM	3824	HD11	LEU	X	434	29.876	87.389	109.572	1.00	0.00	H
ATOM	3825	HD12	LEU	X	434	30.385	87.873	107.873	1.00	0.00	H
ATOM	3826	HD13	LEU	X	434	30.351	86.196	108.363	1.00	0.00	H
ATOM	3827	CD2	LEU	X	434	32.235	86.607	110.390	1.00	0.00	C
ATOM	3828	HD21	LEU	X	434	31.818	85.619	110.200	1.00	0.00	H
ATOM	3829	HD22	LEU	X	434	33.243	86.651	110.802	1.00	0.00	H
ATOM	3830	HD23	LEU	X	434	31.587	86.986	111.181	1.00	0.00	H
ATOM	3831	C	LEU	X	434	33.035	89.500	107.258	1.00	0.00	C
ATOM	3832	O	LEU	X	434	32.023	90.239	107.437	1.00	0.00	O
ATOM	3833	N	TYR	X	435	34.274	89.945	107.401	1.00	0.00	N
ATOM	3834	H	TYR	X	435	35.050	89.300	107.443	1.00	0.00	H
ATOM	3835	CA	TYR	X	435	34.485	91.339	107.752	1.00	0.00	C
ATOM	3836	HA	TYR	X	435	33.936	91.648	108.641	1.00	0.00	H
ATOM	3837	CB	TYR	X	435	35.983	91.603	108.034	1.00	0.00	C
ATOM	3838	HB2	TYR	X	435	36.447	90.891	108.716	1.00	0.00	H
ATOM	3839	HB3	TYR	X	435	36.634	91.230	107.243	1.00	0.00	H
ATOM	3840	CG	TYR	X	435	36.428	93.020	108.262	1.00	0.00	C
ATOM	3841	CD1	TYR	X	435	37.145	93.636	107.231	1.00	0.00	C
ATOM	3842	HD1	TYR	X	435	37.375	93.119	106.311	1.00	0.00	H
ATOM	3843	CE1	TYR	X	435	37.712	94.964	107.457	1.00	0.00	C
ATOM	3844	HE1	TYR	X	435	38.292	95.505	106.723	1.00	0.00	H
ATOM	3845	CZ	TYR	X	435	37.424	95.604	108.706	1.00	0.00	C
ATOM	3846	OH	TYR	X	435	38.091	96.775	109.061	1.00	0.00	O
ATOM	3847	HH	TYR	X	435	37.802	97.177	109.884	1.00	0.00	H
ATOM	3848	CE2	TYR	X	435	36.645	94.990	109.669	1.00	0.00	C
ATOM	3849	HE2	TYR	X	435	36.587	95.379	110.675	1.00	0.00	H
ATOM	3850	CD2	TYR	X	435	36.154	93.703	109.439	1.00	0.00	C
ATOM	3851	HD2	TYR	X	435	35.578	93.265	110.240	1.00	0.00	H
ATOM	3852	C	TYR	X	435	34.029	92.338	106.564	1.00	0.00	C

ATOM	3853	O	TYR	X	435	33.450	93.388	106.875	1.00	0.00	O
ATOM	3854	N	LEU	X	436	34.126	92.016	105.294	1.00	0.00	N
ATOM	3855	H	LEU	X	436	34.320	91.034	105.169	1.00	0.00	H
ATOM	3856	CA	LEU	X	436	33.670	92.905	104.206	1.00	0.00	C
ATOM	3857	HA	LEU	X	436	33.998	93.925	104.406	1.00	0.00	H
ATOM	3858	CB	LEU	X	436	34.325	92.476	102.924	1.00	0.00	C
ATOM	3859	HB2	LEU	X	436	34.621	91.427	102.896	1.00	0.00	H
ATOM	3860	HB3	LEU	X	436	33.662	92.725	102.096	1.00	0.00	H
ATOM	3861	CG	LEU	X	436	35.648	93.165	102.600	1.00	0.00	C
ATOM	3862	HG	LEU	X	436	35.338	94.202	102.474	1.00	0.00	H
ATOM	3863	CD1	LEU	X	436	36.649	93.301	103.756	1.00	0.00	C
ATOM	3864	HD11	LEU	X	436	36.869	92.292	104.105	1.00	0.00	H
ATOM	3865	HD12	LEU	X	436	37.605	93.739	103.468	1.00	0.00	H
ATOM	3866	HD13	LEU	X	436	36.173	93.878	104.549	1.00	0.00	H
ATOM	3867	CD2	LEU	X	436	36.357	92.503	101.343	1.00	0.00	C
ATOM	3868	HD21	LEU	X	436	37.308	92.975	101.099	1.00	0.00	H
ATOM	3869	HD22	LEU	X	436	36.495	91.441	101.542	1.00	0.00	H
ATOM	3870	HD23	LEU	X	436	35.692	92.713	100.506	1.00	0.00	H
ATOM	3871	C	LEU	X	436	32.176	93.032	104.094	1.00	0.00	C
ATOM	3872	O	LEU	X	436	31.699	94.102	103.934	1.00	0.00	O
ATOM	3873	N	ARG	X	437	31.444	91.908	104.255	1.00	0.00	N
ATOM	3874	H	ARG	X	437	31.965	91.044	104.267	1.00	0.00	H
ATOM	3875	CA	ARG	X	437	30.014	91.776	104.508	1.00	0.00	C
ATOM	3876	HA	ARG	X	437	29.458	92.300	103.730	1.00	0.00	H
ATOM	3877	CB	ARG	X	437	29.594	90.301	104.634	1.00	0.00	C
ATOM	3878	HB2	ARG	X	437	30.074	89.875	105.515	1.00	0.00	H
ATOM	3879	HB3	ARG	X	437	28.535	90.237	104.884	1.00	0.00	H
ATOM	3880	CG	ARG	X	437	29.884	89.469	103.330	1.00	0.00	C
ATOM	3881	HG2	ARG	X	437	29.326	89.959	102.533	1.00	0.00	H
ATOM	3882	HG3	ARG	X	437	30.957	89.416	103.147	1.00	0.00	H
ATOM	3883	CD	ARG	X	437	29.308	88.096	103.572	1.00	0.00	C
ATOM	3884	HD2	ARG	X	437	29.691	87.817	104.553	1.00	0.00	H
ATOM	3885	HD3	ARG	X	437	28.219	88.057	103.565	1.00	0.00	H
ATOM	3886	NE	ARG	X	437	29.832	87.062	102.597	1.00	0.00	N
ATOM	3887	HE	ARG	X	437	30.423	86.289	102.864	1.00	0.00	H
ATOM	3888	CZ	ARG	X	437	29.580	87.150	101.304	1.00	0.00	C
ATOM	3889	NH1	ARG	X	437	28.725	88.005	100.802	1.00	0.00	N
ATOM	3890	HH11	ARG	X	437	28.297	88.683	101.417	1.00	0.00	H
ATOM	3891	HH12	ARG	X	437	28.533	88.109	99.817	1.00	0.00	H
ATOM	3892	NH2	ARG	X	437	30.200	86.310	100.516	1.00	0.00	N
ATOM	3893	HH21	ARG	X	437	30.781	85.593	100.927	1.00	0.00	H
ATOM	3894	HH22	ARG	X	437	30.018	86.301	99.522	1.00	0.00	H
ATOM	3895	C	ARG	X	437	29.564	92.574	105.706	1.00	0.00	C
ATOM	3896	O	ARG	X	437	28.709	93.481	105.557	1.00	0.00	O
ATOM	3897	N	LYS	X	438	30.200	92.467	106.877	1.00	0.00	N
ATOM	3898	H	LYS	X	438	30.920	91.772	107.013	1.00	0.00	H
ATOM	3899	CA	LYS	X	438	29.949	93.417	108.000	1.00	0.00	C
ATOM	3900	HA	LYS	X	438	28.876	93.423	108.199	1.00	0.00	H
ATOM	3901	CB	LYS	X	438	30.757	93.025	109.207	1.00	0.00	C
ATOM	3902	HB2	LYS	X	438	31.800	92.888	108.921	1.00	0.00	H
ATOM	3903	HB3	LYS	X	438	30.670	93.819	109.949	1.00	0.00	H
ATOM	3904	CG	LYS	X	438	30.222	91.707	109.806	1.00	0.00	C
ATOM	3905	HG2	LYS	X	438	29.262	91.920	110.277	1.00	0.00	H
ATOM	3906	HG3	LYS	X	438	30.101	90.866	109.121	1.00	0.00	H
ATOM	3907	CD	LYS	X	438	31.179	91.328	110.901	1.00	0.00	C
ATOM	3908	HD2	LYS	X	438	32.137	90.952	110.544	1.00	0.00	H
ATOM	3909	HD3	LYS	X	438	31.333	92.211	111.522	1.00	0.00	H
ATOM	3910	CE	LYS	X	438	30.590	90.146	111.672	1.00	0.00	C
ATOM	3911	HE2	LYS	X	438	29.660	90.489	112.126	1.00	0.00	H
ATOM	3912	HE3	LYS	X	438	30.437	89.355	110.938	1.00	0.00	H
ATOM	3913	NZ	LYS	X	438	31.488	89.690	112.727	1.00	0.00	N
ATOM	3914	HZ1	LYS	X	438	30.957	88.921	113.112	1.00	0.00	H
ATOM	3915	HZ2	LYS	X	438	32.393	89.349	112.437	1.00	0.00	H
ATOM	3916	HZ3	LYS	X	438	31.496	90.300	113.531	1.00	0.00	H
ATOM	3917	C	LYS	X	438	30.193	94.870	107.632	1.00	0.00	C
ATOM	3918	O	LYS	X	438	29.458	95.745	107.993	1.00	0.00	O
ATOM	3919	N	CYS	X	439	31.303	95.135	106.991	1.00	0.00	N
ATOM	3920	H	CYS	X	439	32.045	94.450	106.993	1.00	0.00	H
ATOM	3921	CA	CYS	X	439	31.849	96.529	106.776	1.00	0.00	C
ATOM	3922	HA	CYS	X	439	31.906	97.114	107.693	1.00	0.00	H
ATOM	3923	CB	CYS	X	439	33.200	96.416	106.105	1.00	0.00	C
ATOM	3924	HB2	CYS	X	439	33.217	95.500	105.515	1.00	0.00	H
ATOM	3925	HB3	CYS	X	439	33.426	97.286	105.487	1.00	0.00	H
ATOM	3926	SG	CYS	X	439	34.370	96.222	107.491	1.00	0.00	S
ATOM	3927	HG	CYS	X	439	34.582	94.927	107.242	1.00	0.00	H
ATOM	3928	C	CYS	X	439	30.883	97.352	105.862	1.00	0.00	C
ATOM	3929	O	CYS	X	439	30.515	98.472	106.141	1.00	0.00	O
ATOM	3930	N	HID	X	440	30.516	96.718	104.781	1.00	0.00	N
ATOM	3931	H	HID	X	440	30.849	95.771	104.671	1.00	0.00	H
ATOM	3932	CA	HID	X	440	30.060	97.422	103.632	1.00	0.00	C
ATOM	3933	HA	HID	X	440	30.090	98.504	103.760	1.00	0.00	H
ATOM	3934	CB	HID	X	440	31.016	97.127	102.510	1.00	0.00	C

ATOM	3935	HB2	HID	X	440	31.075	96.053	102.328	1.00	0.00	H
ATOM	3936	HB3	HID	X	440	30.573	97.578	101.621	1.00	0.00	H
ATOM	3937	CG	HID	X	440	32.485	97.505	102.700	1.00	0.00	C
ATOM	3938	ND1	HID	X	440	32.933	98.781	102.748	1.00	0.00	N
ATOM	3939	HD1	HID	X	440	32.416	99.635	102.590	1.00	0.00	H
ATOM	3940	CE1	HID	X	440	34.278	98.769	102.875	1.00	0.00	C
ATOM	3941	HE1	HID	X	440	34.870	99.665	102.748	1.00	0.00	H
ATOM	3942	NE2	HID	X	440	34.738	97.499	102.896	1.00	0.00	N
ATOM	3943	CD2	HID	X	440	33.587	96.748	102.794	1.00	0.00	C
ATOM	3944	HD2	HID	X	440	33.618	95.670	102.816	1.00	0.00	H
ATOM	3945	C	HID	X	440	28.591	97.119	103.289	1.00	0.00	C
ATOM	3946	O	HID	X	440	27.922	97.905	102.620	1.00	0.00	O
ATOM	3947	N	ARG	X	441	28.003	96.054	103.900	1.00	0.00	N
ATOM	3948	H	ARG	X	441	28.559	95.573	104.595	1.00	0.00	H
ATOM	3949	CA	ARG	X	441	26.618	95.472	103.812	1.00	0.00	C
ATOM	3950	HA	ARG	X	441	26.792	94.467	104.198	1.00	0.00	H
ATOM	3951	CB	ARG	X	441	25.658	96.302	104.732	1.00	0.00	C
ATOM	3952	HB2	ARG	X	441	26.004	97.335	104.758	1.00	0.00	H
ATOM	3953	HB3	ARG	X	441	24.640	96.225	104.350	1.00	0.00	H
ATOM	3954	CG	ARG	X	441	25.596	95.758	106.189	1.00	0.00	C
ATOM	3955	HG2	ARG	X	441	25.303	94.709	106.215	1.00	0.00	H
ATOM	3956	HG3	ARG	X	441	26.628	95.867	106.524	1.00	0.00	H
ATOM	3957	CD	ARG	X	441	24.516	96.398	107.061	1.00	0.00	C
ATOM	3958	HD2	ARG	X	441	24.636	97.482	107.040	1.00	0.00	H
ATOM	3959	HD3	ARG	X	441	23.561	96.120	106.614	1.00	0.00	H
ATOM	3960	NE	ARG	X	441	24.540	95.875	108.511	1.00	0.00	N
ATOM	3961	HE	ARG	X	441	23.855	95.154	108.685	1.00	0.00	H
ATOM	3962	CZ	ARG	X	441	25.198	96.457	109.456	1.00	0.00	C
ATOM	3963	NH1	ARG	X	441	26.141	97.330	109.193	1.00	0.00	N
ATOM	3964	HH11	ARG	X	441	26.488	97.382	108.245	1.00	0.00	H
ATOM	3965	HH12	ARG	X	441	26.615	97.826	109.934	1.00	0.00	H
ATOM	3966	NH2	ARG	X	441	24.864	96.195	110.691	1.00	0.00	N
ATOM	3967	HH21	ARG	X	441	24.106	95.529	110.724	1.00	0.00	H
ATOM	3968	HH22	ARG	X	441	25.181	96.675	111.522	1.00	0.00	H
ATOM	3969	C	ARG	X	441	25.991	95.200	102.490	1.00	0.00	C
ATOM	3970	O	ARG	X	441	25.444	94.095	102.271	1.00	0.00	O
ATOM	3971	N	GLU	X	442	26.048	96.145	101.563	1.00	0.00	N
ATOM	3972	H	GLU	X	442	26.751	96.856	101.700	1.00	0.00	H
ATOM	3973	CA	GLU	X	442	25.257	96.146	100.321	1.00	0.00	C
ATOM	3974	HA	GLU	X	442	24.342	95.559	100.402	1.00	0.00	H
ATOM	3975	CB	GLU	X	442	24.855	97.581	100.029	1.00	0.00	C
ATOM	3976	HB2	GLU	X	442	24.005	97.818	100.669	1.00	0.00	H
ATOM	3977	HB3	GLU	X	442	25.735	98.161	100.306	1.00	0.00	H
ATOM	3978	CG	GLU	X	442	24.426	98.009	98.619	1.00	0.00	C
ATOM	3979	HG2	GLU	X	442	23.866	98.939	98.712	1.00	0.00	H
ATOM	3980	HG3	GLU	X	442	25.348	98.136	98.049	1.00	0.00	H
ATOM	3981	CD	GLU	X	442	23.596	96.998	97.866	1.00	0.00	C
ATOM	3982	OE1	GLU	X	442	22.451	96.714	98.315	1.00	0.00	O
ATOM	3983	OE2	GLU	X	442	23.960	96.566	96.761	1.00	0.00	O
ATOM	3984	C	GLU	X	442	26.092	95.431	99.265	1.00	0.00	C
ATOM	3985	O	GLU	X	442	27.254	95.765	99.125	1.00	0.00	O
ATOM	3986	N	PRO	X	443	25.584	94.476	98.504	1.00	0.00	N
ATOM	3987	CD	PRO	X	443	24.289	93.790	98.817	1.00	0.00	C
ATOM	3988	HD2	PRO	X	443	23.398	94.306	98.459	1.00	0.00	H
ATOM	3989	HD3	PRO	X	443	24.174	93.681	99.895	1.00	0.00	H
ATOM	3990	CG	PRO	X	443	24.356	92.388	98.117	1.00	0.00	C
ATOM	3991	HG2	PRO	X	443	23.352	92.239	97.721	1.00	0.00	H
ATOM	3992	HG3	PRO	X	443	24.629	91.724	98.937	1.00	0.00	H
ATOM	3993	CB	PRO	X	443	25.352	92.508	97.024	1.00	0.00	C
ATOM	3994	HB2	PRO	X	443	24.901	93.011	96.168	1.00	0.00	H
ATOM	3995	HB3	PRO	X	443	25.849	91.579	96.747	1.00	0.00	H
ATOM	3996	CA	PRO	X	443	26.310	93.562	97.645	1.00	0.00	C
ATOM	3997	HA	PRO	X	443	27.014	93.058	98.308	1.00	0.00	H
ATOM	3998	C	PRO	X	443	27.005	94.213	96.517	1.00	0.00	C
ATOM	3999	O	PRO	X	443	28.071	93.715	96.162	1.00	0.00	O
ATOM	4000	N	GLY	X	444	26.540	95.344	95.909	1.00	0.00	N
ATOM	4001	H	GLY	X	444	25.701	95.752	96.295	1.00	0.00	H
ATOM	4002	CA	GLY	X	444	27.395	96.158	95.022	1.00	0.00	C
ATOM	4003	HA2	GLY	X	444	27.768	95.514	94.225	1.00	0.00	H
ATOM	4004	HA3	GLY	X	444	26.787	96.927	94.545	1.00	0.00	H
ATOM	4005	C	GLY	X	444	28.708	96.718	95.501	1.00	0.00	C
ATOM	4006	O	GLY	X	444	29.496	97.202	94.718	1.00	0.00	O
ATOM	4007	N	VAL	X	445	28.976	96.543	96.791	1.00	0.00	N
ATOM	4008	H	VAL	X	445	28.328	95.946	97.284	1.00	0.00	H
ATOM	4009	CA	VAL	X	445	30.236	96.977	97.410	1.00	0.00	C
ATOM	4010	HA	VAL	X	445	30.922	97.191	96.590	1.00	0.00	H
ATOM	4011	CB	VAL	X	445	30.040	98.213	98.287	1.00	0.00	C
ATOM	4012	HB	VAL	X	445	29.200	97.891	98.900	1.00	0.00	H
ATOM	4013	CG1	VAL	X	445	31.242	98.488	99.199	1.00	0.00	C
ATOM	4014	HG11	VAL	X	445	32.010	98.819	98.500	1.00	0.00	H
ATOM	4015	HG12	VAL	X	445	31.043	99.295	99.905	1.00	0.00	H
ATOM	4016	HG13	VAL	X	445	31.519	97.571	99.718	1.00	0.00	H

ATOM	4017	CG2	VAL	X	445	29.634	99.489	97.531	1.00	0.00	C
ATOM	4018	HG21	VAL	X	445	30.576	99.800	97.081	1.00	0.00	H
ATOM	4019	HG22	VAL	X	445	28.942	99.266	96.718	1.00	0.00	H
ATOM	4020	HG23	VAL	X	445	29.256	100.170	98.294	1.00	0.00	H
ATOM	4021	C	VAL	X	445	30.846	95.860	98.131	1.00	0.00	C
ATOM	4022	O	VAL	X	445	32.020	95.613	97.960	1.00	0.00	O
ATOM	4023	N	ALA	X	446	29.982	95.226	98.970	1.00	0.00	N
ATOM	4024	H	ALA	X	446	29.000	95.439	98.860	1.00	0.00	H
ATOM	4025	CA	ALA	X	446	30.414	94.044	99.780	1.00	0.00	C
ATOM	4026	HA	ALA	X	446	31.338	94.350	100.272	1.00	0.00	H
ATOM	4027	CB	ALA	X	446	29.398	93.745	100.951	1.00	0.00	C
ATOM	4028	HB1	ALA	X	446	29.172	94.734	101.351	1.00	0.00	H
ATOM	4029	HB2	ALA	X	446	28.547	93.190	100.553	1.00	0.00	H
ATOM	4030	HB3	ALA	X	446	29.792	93.122	101.754	1.00	0.00	H
ATOM	4031	C	ALA	X	446	30.908	92.778	99.006	1.00	0.00	C
ATOM	4032	O	ALA	X	446	32.131	92.677	98.785	1.00	0.00	O
ATOM	4033	N	ASP	X	447	30.002	92.123	98.323	1.00	0.00	N
ATOM	4034	H	ASP	X	447	29.019	92.236	98.520	1.00	0.00	H
ATOM	4035	CA	ASP	X	447	30.192	91.033	97.319	1.00	0.00	C
ATOM	4036	HA	ASP	X	447	30.814	90.198	97.641	1.00	0.00	H
ATOM	4037	CB	ASP	X	447	28.925	90.268	96.833	1.00	0.00	C
ATOM	4038	HB2	ASP	X	447	28.379	90.870	96.107	1.00	0.00	H
ATOM	4039	HB3	ASP	X	447	29.231	89.383	96.273	1.00	0.00	H
ATOM	4040	CG	ASP	X	447	27.997	89.802	97.994	1.00	0.00	C
ATOM	4041	OD1	ASP	X	447	27.692	88.580	98.106	1.00	0.00	O
ATOM	4042	OD2	ASP	X	447	27.559	90.667	98.846	1.00	0.00	O
ATOM	4043	C	ASP	X	447	30.926	91.498	96.052	1.00	0.00	C
ATOM	4044	O	ASP	X	447	31.642	90.657	95.389	1.00	0.00	O
ATOM	4045	N	ARG	X	448	30.909	92.820	95.692	1.00	0.00	N
ATOM	4046	H	ARG	X	448	30.278	93.462	96.151	1.00	0.00	H
ATOM	4047	CA	ARG	X	448	31.795	93.307	94.711	1.00	0.00	C
ATOM	4048	HA	ARG	X	448	31.897	92.590	93.895	1.00	0.00	H
ATOM	4049	CB	ARG	X	448	31.236	94.603	94.164	1.00	0.00	C
ATOM	4050	HB2	ARG	X	448	30.166	94.529	93.969	1.00	0.00	H
ATOM	4051	HB3	ARG	X	448	31.280	95.310	94.993	1.00	0.00	H
ATOM	4052	CG	ARG	X	448	31.864	95.078	92.835	1.00	0.00	C
ATOM	4053	HG2	ARG	X	448	32.948	95.072	92.947	1.00	0.00	H
ATOM	4054	HG3	ARG	X	448	31.493	94.355	92.107	1.00	0.00	H
ATOM	4055	CD	ARG	X	448	31.461	96.481	92.372	1.00	0.00	C
ATOM	4056	HD2	ARG	X	448	30.376	96.505	92.275	1.00	0.00	H
ATOM	4057	HD3	ARG	X	448	31.673	97.176	93.184	1.00	0.00	H
ATOM	4058	NE	ARG	X	448	32.186	96.941	91.159	1.00	0.00	N
ATOM	4059	HE	ARG	X	448	32.485	96.247	90.488	1.00	0.00	H
ATOM	4060	CZ	ARG	X	448	32.787	98.099	91.064	1.00	0.00	C
ATOM	4061	NH1	ARG	X	448	32.375	99.095	91.714	1.00	0.00	N
ATOM	4062	HH11	ARG	X	448	31.620	99.229	92.371	1.00	0.00	H
ATOM	4063	HH12	ARG	X	448	32.922	99.937	91.613	1.00	0.00	H
ATOM	4064	NH2	ARG	X	448	33.641	98.333	90.172	1.00	0.00	N
ATOM	4065	HH21	ARG	X	448	33.840	97.674	89.432	1.00	0.00	H
ATOM	4066	HH22	ARG	X	448	34.206	99.166	90.249	1.00	0.00	H
ATOM	4067	C	ARG	X	448	33.283	93.435	95.123	1.00	0.00	C
ATOM	4068	O	ARG	X	448	34.153	93.074	94.313	1.00	0.00	O
ATOM	4069	N	LEU	X	449	33.694	93.882	96.326	1.00	0.00	N
ATOM	4070	H	LEU	X	449	32.996	94.194	96.987	1.00	0.00	H
ATOM	4071	CA	LEU	X	449	35.028	93.939	96.807	1.00	0.00	C
ATOM	4072	HA	LEU	X	449	35.689	94.420	96.087	1.00	0.00	H
ATOM	4073	CB	LEU	X	449	35.023	94.943	98.023	1.00	0.00	C
ATOM	4074	HB2	LEU	X	449	34.602	95.899	97.716	1.00	0.00	H
ATOM	4075	HB3	LEU	X	449	34.276	94.563	98.720	1.00	0.00	H
ATOM	4076	CG	LEU	X	449	36.357	95.136	98.753	1.00	0.00	C
ATOM	4077	HG	LEU	X	449	36.763	94.169	99.045	1.00	0.00	H
ATOM	4078	CD1	LEU	X	449	37.404	95.773	97.872	1.00	0.00	C
ATOM	4079	HD11	LEU	X	449	38.259	96.057	98.485	1.00	0.00	H
ATOM	4080	HD12	LEU	X	449	37.662	95.020	97.128	1.00	0.00	H
ATOM	4081	HD13	LEU	X	449	36.975	96.675	97.437	1.00	0.00	H
ATOM	4082	CD2	LEU	X	449	36.213	96.029	100.013	1.00	0.00	C
ATOM	4083	HD21	LEU	X	449	35.440	95.695	100.705	1.00	0.00	H
ATOM	4084	HD22	LEU	X	449	37.128	96.158	100.590	1.00	0.00	H
ATOM	4085	HD23	LEU	X	449	35.935	97.064	99.808	1.00	0.00	H
ATOM	4086	C	LEU	X	449	35.666	92.578	97.203	1.00	0.00	C
ATOM	4087	O	LEU	X	449	36.859	92.296	96.943	1.00	0.00	O
ATOM	4088	N	ILE	X	450	34.832	91.637	97.717	1.00	0.00	N
ATOM	4089	H	ILE	X	450	33.872	91.910	97.867	1.00	0.00	H
ATOM	4090	CA	ILE	X	450	35.119	90.206	97.665	1.00	0.00	C
ATOM	4091	HA	ILE	X	450	36.021	90.118	98.271	1.00	0.00	H
ATOM	4092	CB	ILE	X	450	34.015	89.370	98.384	1.00	0.00	C
ATOM	4093	HB	ILE	X	450	33.131	89.465	97.752	1.00	0.00	H
ATOM	4094	CG2	ILE	X	450	34.253	87.869	98.471	1.00	0.00	C
ATOM	4095	HG21	ILE	X	450	33.358	87.414	98.897	1.00	0.00	H
ATOM	4096	HG22	ILE	X	450	34.618	87.418	97.548	1.00	0.00	H
ATOM	4097	HG23	ILE	X	450	35.054	87.654	99.177	1.00	0.00	H
ATOM	4098	CG1	ILE	X	450	33.728	89.936	99.759	1.00	0.00	C

ATOM	4099	HG12	ILE	X	450	34.499	89.570	100.436	1.00	0.00	H
ATOM	4100	HG13	ILE	X	450	33.833	91.020	99.802	1.00	0.00	H
ATOM	4101	CD1	ILE	X	450	32.304	89.513	100.184	1.00	0.00	C
ATOM	4102	HD11	ILE	X	450	32.163	90.004	101.147	1.00	0.00	H
ATOM	4103	HD12	ILE	X	450	31.577	89.965	99.510	1.00	0.00	H
ATOM	4104	HD13	ILE	X	450	32.227	88.427	100.257	1.00	0.00	H
ATOM	4105	C	ILE	X	450	35.442	89.701	96.201	1.00	0.00	C
ATOM	4106	O	ILE	X	450	36.342	88.944	96.052	1.00	0.00	O
ATOM	4107	N	HID	X	451	34.672	90.100	95.212	1.00	0.00	N
ATOM	4108	H	HID	X	451	33.855	90.664	95.404	1.00	0.00	H
ATOM	4109	CA	HID	X	451	34.966	89.672	93.834	1.00	0.00	C
ATOM	4110	HA	HID	X	451	35.047	88.595	93.985	1.00	0.00	H
ATOM	4111	CB	HID	X	451	33.848	89.978	92.756	1.00	0.00	C
ATOM	4112	HB2	HID	X	451	32.913	89.635	93.199	1.00	0.00	H
ATOM	4113	HB3	HID	X	451	33.770	91.054	92.594	1.00	0.00	H
ATOM	4114	CG	HID	X	451	33.944	89.196	91.479	1.00	0.00	C
ATOM	4115	ND1	HID	X	451	34.728	89.503	90.386	1.00	0.00	N
ATOM	4116	HD1	HID	X	451	35.257	90.359	90.287	1.00	0.00	H
ATOM	4117	CE1	HID	X	451	34.688	88.558	89.434	1.00	0.00	C
ATOM	4118	HE1	HID	X	451	35.179	88.713	88.485	1.00	0.00	H
ATOM	4119	NE2	HID	X	451	33.803	87.646	89.841	1.00	0.00	N
ATOM	4120	CD2	HID	X	451	33.409	87.992	91.169	1.00	0.00	C
ATOM	4121	HD2	HID	X	451	32.824	87.456	91.904	1.00	0.00	H
ATOM	4122	C	HID	X	451	36.271	90.166	93.278	1.00	0.00	C
ATOM	4123	O	HID	X	451	37.022	89.462	92.556	1.00	0.00	O
ATOM	4124	N	LEU	X	452	36.697	91.328	93.777	1.00	0.00	N
ATOM	4125	H	LEU	X	452	36.080	91.776	94.439	1.00	0.00	H
ATOM	4126	CA	LEU	X	452	38.035	91.962	93.543	1.00	0.00	C
ATOM	4127	HA	LEU	X	452	38.266	91.931	92.478	1.00	0.00	H
ATOM	4128	CB	LEU	X	452	37.923	93.468	93.968	1.00	0.00	C
ATOM	4129	HB2	LEU	X	452	36.988	93.787	93.509	1.00	0.00	H
ATOM	4130	HB3	LEU	X	452	37.812	93.523	95.052	1.00	0.00	H
ATOM	4131	CG	LEU	X	452	39.066	94.370	93.437	1.00	0.00	C
ATOM	4132	HG	LEU	X	452	39.303	94.364	92.374	1.00	0.00	H
ATOM	4133	CD1	LEU	X	452	38.558	95.835	93.726	1.00	0.00	C
ATOM	4134	HD11	LEU	X	452	39.425	96.481	93.862	1.00	0.00	H
ATOM	4135	HD12	LEU	X	452	37.935	96.203	92.912	1.00	0.00	H
ATOM	4136	HD13	LEU	X	452	38.049	95.861	94.691	1.00	0.00	H
ATOM	4137	CD2	LEU	X	452	40.321	94.205	94.310	1.00	0.00	C
ATOM	4138	HD21	LEU	X	452	40.558	93.144	94.360	1.00	0.00	H
ATOM	4139	HD22	LEU	X	452	41.218	94.675	93.905	1.00	0.00	H
ATOM	4140	HD23	LEU	X	452	40.253	94.608	95.322	1.00	0.00	H
ATOM	4141	C	LEU	X	452	39.117	91.225	94.285	1.00	0.00	C
ATOM	4142	O	LEU	X	452	40.146	90.911	93.651	1.00	0.00	O
ATOM	4143	N	LEU	X	453	38.953	90.900	95.502	1.00	0.00	N
ATOM	4144	H	LEU	X	453	38.282	91.348	96.110	1.00	0.00	H
ATOM	4145	CA	LEU	X	453	39.963	90.061	96.229	1.00	0.00	C
ATOM	4146	HA	LEU	X	453	40.956	90.380	95.908	1.00	0.00	H
ATOM	4147	CB	LEU	X	453	39.680	90.138	97.712	1.00	0.00	C
ATOM	4148	HB2	LEU	X	453	38.677	89.929	98.083	1.00	0.00	H
ATOM	4149	HB3	LEU	X	453	40.159	89.313	98.238	1.00	0.00	H
ATOM	4150	CG	LEU	X	453	39.962	91.391	98.467	1.00	0.00	C
ATOM	4151	HG	LEU	X	453	39.260	92.222	98.403	1.00	0.00	H
ATOM	4152	CD1	LEU	X	453	39.970	91.149	99.937	1.00	0.00	C
ATOM	4153	HD11	LEU	X	453	40.681	90.351	100.152	1.00	0.00	H
ATOM	4154	HD12	LEU	X	453	40.115	92.133	100.381	1.00	0.00	H
ATOM	4155	HD13	LEU	X	453	38.957	90.823	100.173	1.00	0.00	H
ATOM	4156	CD2	LEU	X	453	41.407	91.961	98.194	1.00	0.00	C
ATOM	4157	HD21	LEU	X	453	41.438	92.415	97.204	1.00	0.00	H
ATOM	4158	HD22	LEU	X	453	41.703	92.792	98.834	1.00	0.00	H
ATOM	4159	HD23	LEU	X	453	42.140	91.167	98.335	1.00	0.00	H
ATOM	4160	C	LEU	X	453	39.906	88.599	95.631	1.00	0.00	C
ATOM	4161	O	LEU	X	453	40.988	88.002	95.462	1.00	0.00	O
ATOM	4162	N	GLN	X	454	38.813	88.145	95.102	1.00	0.00	N
ATOM	4163	H	GLN	X	454	37.981	88.717	95.122	1.00	0.00	H
ATOM	4164	CA	GLN	X	454	38.634	86.868	94.389	1.00	0.00	C
ATOM	4165	HA	GLN	X	454	39.179	86.108	94.949	1.00	0.00	H
ATOM	4166	CB	GLN	X	454	37.097	86.583	94.282	1.00	0.00	C
ATOM	4167	HB2	GLN	X	454	36.572	86.616	95.236	1.00	0.00	H
ATOM	4168	HB3	GLN	X	454	36.608	87.376	93.717	1.00	0.00	H
ATOM	4169	CG	GLN	X	454	36.818	85.272	93.455	1.00	0.00	C
ATOM	4170	HG2	GLN	X	454	37.505	85.114	92.622	1.00	0.00	H
ATOM	4171	HG3	GLN	X	454	36.819	84.409	94.120	1.00	0.00	H
ATOM	4172	CD	GLN	X	454	35.536	85.240	92.808	1.00	0.00	C
ATOM	4173	OE1	GLN	X	454	34.536	85.905	93.202	1.00	0.00	O
ATOM	4174	NE2	GLN	X	454	35.371	84.345	91.876	1.00	0.00	N
ATOM	4175	HE21	GLN	X	454	34.446	84.143	91.522	1.00	0.00	H
ATOM	4176	HE22	GLN	X	454	36.148	83.847	91.464	1.00	0.00	H
ATOM	4177	C	GLN	X	454	39.395	86.832	93.053	1.00	0.00	C
ATOM	4178	O	GLN	X	454	40.123	85.936	92.763	1.00	0.00	O
ATOM	4179	N	THR	X	455	39.367	87.935	92.369	1.00	0.00	N
ATOM	4180	H	THR	X	455	38.768	88.688	92.678	1.00	0.00	H

ATOM	4181	CA	THR	X	455	40.223	88.185	91.155	1.00	0.00	C
ATOM	4182	HA	THR	X	455	40.050	87.335	90.494	1.00	0.00	H
ATOM	4183	CB	THR	X	455	39.952	89.632	90.482	1.00	0.00	C
ATOM	4184	HB	THR	X	455	40.249	90.453	91.135	1.00	0.00	H
ATOM	4185	CG2	THR	X	455	40.671	89.679	89.146	1.00	0.00	C
ATOM	4186	HG21	THR	X	455	40.850	90.708	88.836	1.00	0.00	H
ATOM	4187	HG22	THR	X	455	41.675	89.258	89.181	1.00	0.00	H
ATOM	4188	HG23	THR	X	455	40.162	89.072	88.397	1.00	0.00	H
ATOM	4189	OG1	THR	X	455	38.645	89.658	90.122	1.00	0.00	O
ATOM	4190	HG1	THR	X	455	38.148	89.440	90.915	1.00	0.00	H
ATOM	4191	C	THR	X	455	41.738	88.338	91.567	1.00	0.00	C
ATOM	4192	O	THR	X	455	42.668	87.653	90.999	1.00	0.00	O
ATOM	4193	N	THR	X	456	41.984	89.273	92.504	1.00	0.00	N
ATOM	4194	H	THR	X	456	41.216	89.783	92.915	1.00	0.00	H
ATOM	4195	CA	THR	X	456	43.296	89.813	92.966	1.00	0.00	C
ATOM	4196	HA	THR	X	456	44.022	89.531	92.203	1.00	0.00	H
ATOM	4197	CB	THR	X	456	43.221	91.388	93.169	1.00	0.00	C
ATOM	4198	HB	THR	X	456	42.687	91.619	94.091	1.00	0.00	H
ATOM	4199	CG2	THR	X	456	44.534	92.077	93.169	1.00	0.00	C
ATOM	4200	HG21	THR	X	456	45.265	91.574	93.802	1.00	0.00	H
ATOM	4201	HG22	THR	X	456	44.843	91.969	92.129	1.00	0.00	H
ATOM	4202	HG23	THR	X	456	44.376	93.096	93.522	1.00	0.00	H
ATOM	4203	OG1	THR	X	456	42.463	91.889	92.121	1.00	0.00	O
ATOM	4204	HG1	THR	X	456	41.528	91.875	92.336	1.00	0.00	H
ATOM	4205	C	THR	X	456	43.751	89.086	94.194	1.00	0.00	C
ATOM	4206	O	THR	X	456	43.971	89.623	95.291	1.00	0.00	O
ATOM	4207	N	SER	X	457	43.873	87.743	94.101	1.00	0.00	N
ATOM	4208	H	SER	X	457	43.573	87.425	93.189	1.00	0.00	H
ATOM	4209	CA	SER	X	457	44.197	86.844	95.184	1.00	0.00	C
ATOM	4210	HA	SER	X	457	43.314	86.936	95.818	1.00	0.00	H
ATOM	4211	CB	SER	X	457	44.157	85.378	94.680	1.00	0.00	C
ATOM	4212	HB2	SER	X	457	44.540	84.813	95.530	1.00	0.00	H
ATOM	4213	HB3	SER	X	457	43.114	85.124	94.492	1.00	0.00	H
ATOM	4214	OG	SER	X	457	45.005	85.195	93.543	1.00	0.00	O
ATOM	4215	HG	SER	X	457	44.969	84.272	93.278	1.00	0.00	H
ATOM	4216	C	SER	X	457	45.558	87.118	95.849	1.00	0.00	C
ATOM	4217	O	SER	X	457	45.725	86.679	96.976	1.00	0.00	O
ATOM	4218	N	ALA	X	458	46.513	87.867	95.234	1.00	0.00	N
ATOM	4219	H	ALA	X	458	46.315	88.070	94.265	1.00	0.00	H
ATOM	4220	CA	ALA	X	458	47.694	88.381	95.861	1.00	0.00	C
ATOM	4221	HA	ALA	X	458	48.194	87.531	96.327	1.00	0.00	H
ATOM	4222	CB	ALA	X	458	48.471	88.996	94.706	1.00	0.00	C
ATOM	4223	HB1	ALA	X	458	47.803	89.201	93.870	1.00	0.00	H
ATOM	4224	HB2	ALA	X	458	48.953	89.916	95.035	1.00	0.00	H
ATOM	4225	HB3	ALA	X	458	49.209	88.272	94.359	1.00	0.00	H
ATOM	4226	C	ALA	X	458	47.398	89.446	96.910	1.00	0.00	C
ATOM	4227	O	ALA	X	458	48.076	89.413	97.955	1.00	0.00	O
ATOM	4228	N	LEU	X	459	46.467	90.349	96.576	1.00	0.00	N
ATOM	4229	H	LEU	X	459	45.989	90.288	95.689	1.00	0.00	H
ATOM	4230	CA	LEU	X	459	45.993	91.376	97.511	1.00	0.00	C
ATOM	4231	HA	LEU	X	459	46.778	91.841	98.105	1.00	0.00	H
ATOM	4232	CB	LEU	X	459	45.167	92.418	96.745	1.00	0.00	C
ATOM	4233	HB2	LEU	X	459	45.646	92.729	95.816	1.00	0.00	H
ATOM	4234	HB3	LEU	X	459	44.183	91.977	96.585	1.00	0.00	H
ATOM	4235	CG	LEU	X	459	45.082	93.723	97.552	1.00	0.00	C
ATOM	4236	HG	LEU	X	459	44.903	93.430	98.586	1.00	0.00	H
ATOM	4237	CD1	LEU	X	459	46.451	94.458	97.441	1.00	0.00	C
ATOM	4238	HD11	LEU	X	459	46.545	95.088	98.324	1.00	0.00	H
ATOM	4239	HD12	LEU	X	459	47.301	93.777	97.504	1.00	0.00	H
ATOM	4240	HD13	LEU	X	459	46.465	95.123	96.578	1.00	0.00	H
ATOM	4241	CD2	LEU	X	459	43.996	94.728	97.151	1.00	0.00	C
ATOM	4242	HD21	LEU	X	459	43.042	94.205	97.221	1.00	0.00	H
ATOM	4243	HD22	LEU	X	459	43.923	95.477	97.940	1.00	0.00	H
ATOM	4244	HD23	LEU	X	459	44.163	95.160	96.165	1.00	0.00	H
ATOM	4245	C	LEU	X	459	45.182	90.747	98.631	1.00	0.00	C
ATOM	4246	O	LEU	X	459	45.348	91.149	99.805	1.00	0.00	O
ATOM	4247	N	HID	X	460	44.443	89.678	98.342	1.00	0.00	N
ATOM	4248	H	HID	X	460	44.354	89.269	97.423	1.00	0.00	H
ATOM	4249	CA	HID	X	460	43.715	88.937	99.334	1.00	0.00	C
ATOM	4250	HA	HID	X	460	43.108	89.648	99.895	1.00	0.00	H
ATOM	4251	CB	HID	X	460	42.740	87.918	98.728	1.00	0.00	C
ATOM	4252	HB2	HID	X	460	42.352	88.337	97.800	1.00	0.00	H
ATOM	4253	HB3	HID	X	460	43.375	87.033	98.688	1.00	0.00	H
ATOM	4254	CG	HID	X	460	41.638	87.429	99.609	1.00	0.00	C
ATOM	4255	ND1	HID	X	460	40.881	86.313	99.341	1.00	0.00	N
ATOM	4256	HD1	HID	X	460	40.924	85.718	98.526	1.00	0.00	H
ATOM	4257	CE1	HID	X	460	40.004	86.096	100.316	1.00	0.00	C
ATOM	4258	HE1	HID	X	460	39.164	85.421	100.239	1.00	0.00	H
ATOM	4259	NE2	HID	X	460	40.149	87.055	101.201	1.00	0.00	N
ATOM	4260	CD2	HID	X	460	41.178	87.911	100.802	1.00	0.00	C
ATOM	4261	HD2	HID	X	460	41.658	88.727	101.322	1.00	0.00	H
ATOM	4262	C	HID	X	460	44.716	88.214	100.281	1.00	0.00	C

ATOM	4263	O	HID	X	460	44.565	88.134	101.489	1.00	0.00	O
ATOM	4264	N	GLY	X	461	45.737	87.550	99.749	1.00	0.00	N
ATOM	4265	H	GLY	X	461	45.728	87.501	98.740	1.00	0.00	H
ATOM	4266	CA	GLY	X	461	46.892	86.951	100.367	1.00	0.00	C
ATOM	4267	HA2	GLY	X	461	46.736	86.021	100.913	1.00	0.00	H
ATOM	4268	HA3	GLY	X	461	47.615	86.829	99.560	1.00	0.00	H
ATOM	4269	C	GLY	X	461	47.516	87.917	101.417	1.00	0.00	C
ATOM	4270	O	GLY	X	461	47.698	87.612	102.600	1.00	0.00	O
ATOM	4271	N	LEU	X	462	47.758	89.138	100.995	1.00	0.00	N
ATOM	4272	H	LEU	X	462	47.715	89.296	99.999	1.00	0.00	H
ATOM	4273	CA	LEU	X	462	48.192	90.297	101.888	1.00	0.00	C
ATOM	4274	HA	LEU	X	462	49.039	89.881	102.432	1.00	0.00	H
ATOM	4275	CB	LEU	X	462	48.655	91.403	100.921	1.00	0.00	C
ATOM	4276	HB2	LEU	X	462	47.931	91.590	100.128	1.00	0.00	H
ATOM	4277	HB3	LEU	X	462	48.681	92.328	101.498	1.00	0.00	H
ATOM	4278	CG	LEU	X	462	50.061	91.232	100.268	1.00	0.00	C
ATOM	4279	HG	LEU	X	462	50.164	90.202	99.930	1.00	0.00	H
ATOM	4280	CD1	LEU	X	462	50.195	92.125	98.996	1.00	0.00	C
ATOM	4281	HD11	LEU	X	462	51.049	91.833	98.388	1.00	0.00	H
ATOM	4282	HD12	LEU	X	462	49.378	92.072	98.278	1.00	0.00	H
ATOM	4283	HD13	LEU	X	462	50.198	93.187	99.243	1.00	0.00	H
ATOM	4284	CD2	LEU	X	462	51.203	91.563	101.231	1.00	0.00	C
ATOM	4285	HD21	LEU	X	462	52.153	91.431	100.713	1.00	0.00	H
ATOM	4286	HD22	LEU	X	462	50.978	92.578	101.560	1.00	0.00	H
ATOM	4287	HD23	LEU	X	462	51.175	90.878	102.079	1.00	0.00	H
ATOM	4288	C	LEU	X	462	47.227	90.773	102.958	1.00	0.00	C
ATOM	4289	O	LEU	X	462	47.611	90.967	104.058	1.00	0.00	O
ATOM	4290	N	CYS	X	463	45.892	90.655	102.712	1.00	0.00	N
ATOM	4291	H	CYS	X	463	45.484	90.376	101.831	1.00	0.00	H
ATOM	4292	CA	CYS	X	463	44.836	90.936	103.671	1.00	0.00	C
ATOM	4293	HA	CYS	X	463	44.983	91.975	103.965	1.00	0.00	H
ATOM	4294	CB	CYS	X	463	43.450	91.045	103.054	1.00	0.00	C
ATOM	4295	HB2	CYS	X	463	43.124	90.089	102.646	1.00	0.00	H
ATOM	4296	HB3	CYS	X	463	42.845	91.285	103.929	1.00	0.00	H
ATOM	4297	SG	CYS	X	463	43.165	92.308	101.871	1.00	0.00	S
ATOM	4298	HG	CYS	X	463	44.081	91.817	101.029	1.00	0.00	H
ATOM	4299	C	CYS	X	463	44.751	90.023	104.833	1.00	0.00	C
ATOM	4300	O	CYS	X	463	44.145	90.448	105.831	1.00	0.00	O
ATOM	4301	N	HID	X	464	45.442	88.922	104.854	1.00	0.00	N
ATOM	4302	H	HID	X	464	46.152	88.762	104.154	1.00	0.00	H
ATOM	4303	CA	HID	X	464	45.583	88.075	106.033	1.00	0.00	C
ATOM	4304	HA	HID	X	464	44.595	88.036	106.491	1.00	0.00	H
ATOM	4305	CB	HID	X	464	46.014	86.641	105.561	1.00	0.00	C
ATOM	4306	HB2	HID	X	464	46.935	86.642	104.978	1.00	0.00	H
ATOM	4307	HB3	HID	X	464	46.164	85.983	106.417	1.00	0.00	H
ATOM	4308	CG	HID	X	464	45.028	85.911	104.644	1.00	0.00	C
ATOM	4309	ND1	HID	X	464	44.590	86.292	103.424	1.00	0.00	N
ATOM	4310	HD1	HID	X	464	44.895	87.087	102.883	1.00	0.00	H
ATOM	4311	CE1	HID	X	464	43.876	85.241	102.905	1.00	0.00	C
ATOM	4312	HE1	HID	X	464	43.402	85.247	101.934	1.00	0.00	H
ATOM	4313	NE2	HID	X	464	43.745	84.280	103.846	1.00	0.00	N
ATOM	4314	CD2	HID	X	464	44.462	84.733	104.993	1.00	0.00	C
ATOM	4315	HD2	HID	X	464	44.811	84.124	105.814	1.00	0.00	H
ATOM	4316	C	HID	X	464	46.536	88.630	107.126	1.00	0.00	C
ATOM	4317	O	HID	X	464	46.621	88.025	108.183	1.00	0.00	O
ATOM	4318	N	LEU	X	465	47.203	89.714	106.899	1.00	0.00	N
ATOM	4319	H	LEU	X	465	47.346	90.048	105.957	1.00	0.00	H
ATOM	4320	CA	LEU	X	465	47.776	90.633	107.923	1.00	0.00	C
ATOM	4321	HA	LEU	X	465	48.192	90.032	108.732	1.00	0.00	H
ATOM	4322	CB	LEU	X	465	49.003	91.462	107.310	1.00	0.00	C
ATOM	4323	HB2	LEU	X	465	49.791	90.818	106.918	1.00	0.00	H
ATOM	4324	HB3	LEU	X	465	48.554	91.989	106.469	1.00	0.00	H
ATOM	4325	CG	LEU	X	465	49.587	92.496	108.297	1.00	0.00	C
ATOM	4326	HG	LEU	X	465	48.809	93.157	108.679	1.00	0.00	H
ATOM	4327	CD1	LEU	X	465	50.357	91.764	109.439	1.00	0.00	C
ATOM	4328	HD11	LEU	X	465	49.609	91.188	109.982	1.00	0.00	H
ATOM	4329	HD12	LEU	X	465	51.090	91.066	109.037	1.00	0.00	H
ATOM	4330	HD13	LEU	X	465	50.732	92.481	110.171	1.00	0.00	H
ATOM	4331	CD2	LEU	X	465	50.520	93.426	107.470	1.00	0.00	C
ATOM	4332	HD21	LEU	X	465	51.221	92.750	106.981	1.00	0.00	H
ATOM	4333	HD22	LEU	X	465	50.014	93.971	106.673	1.00	0.00	H
ATOM	4334	HD23	LEU	X	465	51.144	94.017	108.142	1.00	0.00	H
ATOM	4335	C	LEU	X	465	46.635	91.515	108.347	1.00	0.00	C
ATOM	4336	O	LEU	X	465	46.241	92.367	107.560	1.00	0.00	O
ATOM	4337	N	PRO	X	466	46.090	91.325	109.497	1.00	0.00	N
ATOM	4338	CD	PRO	X	466	46.468	90.341	110.544	1.00	0.00	C
ATOM	4339	HD2	PRO	X	466	47.289	90.580	111.221	1.00	0.00	H
ATOM	4340	HD3	PRO	X	466	46.614	89.340	110.139	1.00	0.00	H
ATOM	4341	CG	PRO	X	466	45.141	90.186	111.374	1.00	0.00	C
ATOM	4342	HG2	PRO	X	466	45.320	89.691	112.328	1.00	0.00	H
ATOM	4343	HG3	PRO	X	466	44.431	89.542	110.853	1.00	0.00	H
ATOM	4344	CB	PRO	X	466	44.677	91.662	111.348	1.00	0.00	C

ATOM	4345	HB2	PRO	X	466	45.357	92.295	111.919	1.00	0.00	H
ATOM	4346	HB3	PRO	X	466	43.641	91.863	111.618	1.00	0.00	H
ATOM	4347	CA	PRO	X	466	44.830	92.009	109.861	1.00	0.00	C
ATOM	4348	HA	PRO	X	466	44.043	91.464	109.341	1.00	0.00	H
ATOM	4349	C	PRO	X	466	44.683	93.504	109.509	1.00	0.00	C
ATOM	4350	O	PRO	X	466	43.703	93.889	108.855	1.00	0.00	O
ATOM	4351	N	VAL	X	467	45.724	94.324	109.686	1.00	0.00	N
ATOM	4352	H	VAL	X	467	46.451	93.923	110.260	1.00	0.00	H
ATOM	4353	CA	VAL	X	467	45.719	95.794	109.330	1.00	0.00	C
ATOM	4354	HA	VAL	X	467	44.736	96.106	109.682	1.00	0.00	H
ATOM	4355	CB	VAL	X	467	46.826	96.407	110.132	1.00	0.00	C
ATOM	4356	HB	VAL	X	467	46.683	96.142	111.180	1.00	0.00	H
ATOM	4357	CG1	VAL	X	467	48.204	95.919	109.635	1.00	0.00	C
ATOM	4358	HG11	VAL	X	467	48.446	94.944	110.060	1.00	0.00	H
ATOM	4359	HG12	VAL	X	467	48.419	95.876	108.567	1.00	0.00	H
ATOM	4360	HG13	VAL	X	467	48.999	96.559	110.016	1.00	0.00	H
ATOM	4361	CG2	VAL	X	467	46.780	97.935	110.090	1.00	0.00	C
ATOM	4362	HG21	VAL	X	467	47.575	98.321	110.728	1.00	0.00	H
ATOM	4363	HG22	VAL	X	467	46.769	98.341	109.078	1.00	0.00	H
ATOM	4364	HG23	VAL	X	467	45.791	98.188	110.469	1.00	0.00	H
ATOM	4365	C	VAL	X	467	45.672	96.056	107.803	1.00	0.00	C
ATOM	4366	O	VAL	X	467	45.105	97.113	107.424	1.00	0.00	O
ATOM	4367	N	PHE	X	468	46.177	95.123	107.017	1.00	0.00	N
ATOM	4368	H	PHE	X	468	46.379	94.248	107.480	1.00	0.00	H
ATOM	4369	CA	PHE	X	468	46.037	95.130	105.584	1.00	0.00	C
ATOM	4370	HA	PHE	X	468	46.338	96.136	105.294	1.00	0.00	H
ATOM	4371	CB	PHE	X	468	46.970	94.063	105.035	1.00	0.00	C
ATOM	4372	HB2	PHE	X	468	47.923	94.093	105.565	1.00	0.00	H
ATOM	4373	HB3	PHE	X	468	46.458	93.105	105.120	1.00	0.00	H
ATOM	4374	CG	PHE	X	468	47.430	94.271	103.613	1.00	0.00	C
ATOM	4375	CD1	PHE	X	468	46.482	94.084	102.592	1.00	0.00	C
ATOM	4376	HD1	PHE	X	468	45.488	93.695	102.751	1.00	0.00	H
ATOM	4377	CE1	PHE	X	468	46.777	94.355	101.211	1.00	0.00	C
ATOM	4378	HE1	PHE	X	468	46.045	94.235	100.425	1.00	0.00	H
ATOM	4379	CZ	PHE	X	468	48.053	94.921	100.941	1.00	0.00	C
ATOM	4380	HZ	PHE	X	468	48.327	95.161	99.924	1.00	0.00	H
ATOM	4381	CE2	PHE	X	468	49.004	95.083	101.951	1.00	0.00	C
ATOM	4382	HE2	PHE	X	468	49.936	95.514	101.617	1.00	0.00	H
ATOM	4383	CD2	PHE	X	468	48.713	94.734	103.323	1.00	0.00	C
ATOM	4384	HD2	PHE	X	468	49.402	94.972	104.118	1.00	0.00	H
ATOM	4385	C	PHE	X	468	44.592	94.980	105.071	1.00	0.00	C
ATOM	4386	O	PHE	X	468	44.207	95.649	104.064	1.00	0.00	O
ATOM	4387	N	SER	X	469	43.750	94.258	105.803	1.00	0.00	N
ATOM	4388	H	SER	X	469	44.162	93.574	106.419	1.00	0.00	H
ATOM	4389	CA	SER	X	469	42.327	94.163	105.561	1.00	0.00	C
ATOM	4390	HA	SER	X	469	42.188	94.174	104.481	1.00	0.00	H
ATOM	4391	CB	SER	X	469	41.745	92.849	106.153	1.00	0.00	C
ATOM	4392	HB2	SER	X	469	40.835	92.589	105.612	1.00	0.00	H
ATOM	4393	HB3	SER	X	469	42.479	92.043	106.111	1.00	0.00	H
ATOM	4394	OG	SER	X	469	41.436	93.078	107.507	1.00	0.00	O
ATOM	4395	HG	SER	X	469	42.279	93.334	107.887	1.00	0.00	H
ATOM	4396	C	SER	X	469	41.574	95.419	105.961	1.00	0.00	C
ATOM	4397	O	SER	X	469	40.560	95.783	105.333	1.00	0.00	O
ATOM	4398	N	TRP	X	470	42.047	96.200	106.920	1.00	0.00	N
ATOM	4399	H	TRP	X	470	42.881	95.871	107.387	1.00	0.00	H
ATOM	4400	CA	TRP	X	470	41.329	97.455	107.327	1.00	0.00	C
ATOM	4401	HA	TRP	X	470	40.253	97.301	107.415	1.00	0.00	H
ATOM	4402	CB	TRP	X	470	41.840	97.734	108.741	1.00	0.00	C
ATOM	4403	HB2	TRP	X	470	41.582	96.954	109.457	1.00	0.00	H
ATOM	4404	HB3	TRP	X	470	42.927	97.739	108.822	1.00	0.00	H
ATOM	4405	CG	TRP	X	470	41.421	99.094	109.221	1.00	0.00	C
ATOM	4406	CD1	TRP	X	470	40.302	99.515	109.804	1.00	0.00	C
ATOM	4407	HD1	TRP	X	470	39.532	98.793	110.034	1.00	0.00	H
ATOM	4408	NE1	TRP	X	470	40.373	100.785	110.269	1.00	0.00	N
ATOM	4409	HE1	TRP	X	470	39.655	101.292	110.766	1.00	0.00	H
ATOM	4410	CE2	TRP	X	470	41.568	101.295	109.791	1.00	0.00	C
ATOM	4411	CZ2	TRP	X	470	42.081	102.602	109.836	1.00	0.00	C
ATOM	4412	HZ2	TRP	X	470	41.484	103.366	110.312	1.00	0.00	H
ATOM	4413	CH2	TRP	X	470	43.352	102.840	109.335	1.00	0.00	C
ATOM	4414	HH2	TRP	X	470	43.727	103.852	109.345	1.00	0.00	H
ATOM	4415	CZ3	TRP	X	470	44.087	101.781	108.698	1.00	0.00	C
ATOM	4416	HZ3	TRP	X	470	45.095	101.872	108.322	1.00	0.00	H
ATOM	4417	CE3	TRP	X	470	43.536	100.515	108.637	1.00	0.00	C
ATOM	4418	HE3	TRP	X	470	44.020	99.677	108.159	1.00	0.00	H
ATOM	4419	CD2	TRP	X	470	42.266	100.275	109.160	1.00	0.00	C
ATOM	4420	C	TRP	X	470	41.599	98.651	106.391	1.00	0.00	C
ATOM	4421	O	TRP	X	470	40.658	99.417	106.178	1.00	0.00	O
ATOM	4422	N	MET	X	471	42.822	98.687	105.785	1.00	0.00	N
ATOM	4423	H	MET	X	471	43.470	97.935	105.970	1.00	0.00	H
ATOM	4424	CA	MET	X	471	43.236	99.795	104.902	1.00	0.00	C
ATOM	4425	HA	MET	X	471	42.717	100.669	105.292	1.00	0.00	H
ATOM	4426	CB	MET	X	471	44.713	100.150	105.044	1.00	0.00	C

ATOM	4427	HB2	MET	X	471	44.928	101.059	104.482	1.00	0.00	H
ATOM	4428	HB3	MET	X	471	45.047	100.255	106.075	1.00	0.00	H
ATOM	4429	CG	MET	X	471	45.536	99.053	104.416	1.00	0.00	C
ATOM	4430	HG2	MET	X	471	45.444	98.163	105.038	1.00	0.00	H
ATOM	4431	HG3	MET	X	471	45.355	98.844	103.361	1.00	0.00	H
ATOM	4432	SD	MET	X	471	47.261	99.358	104.480	1.00	0.00	S
ATOM	4433	CE	MET	X	471	47.608	99.651	106.200	1.00	0.00	C
ATOM	4434	HE1	MET	X	471	47.243	100.618	106.547	1.00	0.00	H
ATOM	4435	HE2	MET	X	471	47.183	98.836	106.785	1.00	0.00	H
ATOM	4436	HE3	MET	X	471	48.674	99.662	106.426	1.00	0.00	H
ATOM	4437	C	MET	X	471	42.767	99.591	103.491	1.00	0.00	C
ATOM	4438	O	MET	X	471	42.388	100.484	102.831	1.00	0.00	O
ATOM	4439	N	VAL	X	472	42.542	98.322	103.043	1.00	0.00	N
ATOM	4440	H	VAL	X	472	42.871	97.510	103.546	1.00	0.00	H
ATOM	4441	CA	VAL	X	472	41.686	97.919	101.980	1.00	0.00	C
ATOM	4442	HA	VAL	X	472	42.101	98.389	101.088	1.00	0.00	H
ATOM	4443	CB	VAL	X	472	41.574	96.421	101.717	1.00	0.00	C
ATOM	4444	HB	VAL	X	472	41.710	95.921	102.675	1.00	0.00	H
ATOM	4445	CG1	VAL	X	472	40.277	96.007	101.063	1.00	0.00	C
ATOM	4446	HG11	VAL	X	472	39.555	96.118	101.872	1.00	0.00	H
ATOM	4447	HG12	VAL	X	472	39.985	96.576	100.180	1.00	0.00	H
ATOM	4448	HG13	VAL	X	472	40.328	94.942	100.835	1.00	0.00	H
ATOM	4449	CG2	VAL	X	472	42.638	95.913	100.793	1.00	0.00	C
ATOM	4450	HG21	VAL	X	472	42.597	96.564	99.919	1.00	0.00	H
ATOM	4451	HG22	VAL	X	472	43.611	96.131	101.231	1.00	0.00	H
ATOM	4452	HG23	VAL	X	472	42.542	94.856	100.540	1.00	0.00	H
ATOM	4453	C	VAL	X	472	40.307	98.559	102.147	1.00	0.00	C
ATOM	4454	O	VAL	X	472	39.834	99.122	101.165	1.00	0.00	O
ATOM	4455	N	SER	X	473	39.707	98.485	103.280	1.00	0.00	N
ATOM	4456	H	SER	X	473	40.261	97.940	103.925	1.00	0.00	H
ATOM	4457	CA	SER	X	473	38.311	98.973	103.695	1.00	0.00	C
ATOM	4458	HA	SER	X	473	37.688	98.701	102.842	1.00	0.00	H
ATOM	4459	CB	SER	X	473	37.886	98.270	105.001	1.00	0.00	C
ATOM	4460	HB2	SER	X	473	38.036	97.195	105.093	1.00	0.00	H
ATOM	4461	HB3	SER	X	473	38.299	98.721	105.903	1.00	0.00	H
ATOM	4462	OG	SER	X	473	36.481	98.446	105.151	1.00	0.00	O
ATOM	4463	HG	SER	X	473	36.084	97.910	104.462	1.00	0.00	H
ATOM	4464	C	SER	X	473	38.261	100.513	103.859	1.00	0.00	C
ATOM	4465	O	SER	X	473	37.203	101.069	103.567	1.00	0.00	O
ATOM	4466	N	LYS	X	474	39.348	101.157	104.280	1.00	0.00	N
ATOM	4467	H	LYS	X	474	40.005	100.725	104.911	1.00	0.00	H
ATOM	4468	CA	LYS	X	474	39.515	102.608	104.135	1.00	0.00	C
ATOM	4469	HA	LYS	X	474	38.648	103.125	104.549	1.00	0.00	H
ATOM	4470	CB	LYS	X	474	40.714	103.145	104.831	1.00	0.00	C
ATOM	4471	HB2	LYS	X	474	41.599	102.844	104.270	1.00	0.00	H
ATOM	4472	HB3	LYS	X	474	40.773	104.225	104.695	1.00	0.00	H
ATOM	4473	CG	LYS	X	474	40.894	102.976	106.354	1.00	0.00	C
ATOM	4474	HG2	LYS	X	474	41.216	101.964	106.603	1.00	0.00	H
ATOM	4475	HG3	LYS	X	474	41.635	103.712	106.665	1.00	0.00	H
ATOM	4476	CD	LYS	X	474	39.610	103.225	107.133	1.00	0.00	C
ATOM	4477	HD2	LYS	X	474	39.796	103.715	108.090	1.00	0.00	H
ATOM	4478	HD3	LYS	X	474	39.052	103.999	106.605	1.00	0.00	H
ATOM	4479	CE	LYS	X	474	38.749	101.933	107.328	1.00	0.00	C
ATOM	4480	HE2	LYS	X	474	38.534	101.416	106.393	1.00	0.00	H
ATOM	4481	HE3	LYS	X	474	39.275	101.265	108.012	1.00	0.00	H
ATOM	4482	NZ	LYS	X	474	37.406	102.326	107.888	1.00	0.00	N
ATOM	4483	HZ1	LYS	X	474	36.951	102.929	107.217	1.00	0.00	H
ATOM	4484	HZ2	LYS	X	474	36.889	101.471	108.034	1.00	0.00	H
ATOM	4485	HZ3	LYS	X	474	37.560	102.794	108.769	1.00	0.00	H
ATOM	4486	C	LYS	X	474	39.516	102.936	102.668	1.00	0.00	C
ATOM	4487	O	LYS	X	474	38.772	103.828	102.221	1.00	0.00	O
ATOM	4488	N	CYS	X	475	40.406	102.280	101.858	1.00	0.00	N
ATOM	4489	H	CYS	X	475	40.790	101.428	102.240	1.00	0.00	H
ATOM	4490	CA	CYS	X	475	40.656	102.582	100.465	1.00	0.00	C
ATOM	4491	HA	CYS	X	475	40.589	103.645	100.237	1.00	0.00	H
ATOM	4492	CB	CYS	X	475	42.188	102.356	100.104	1.00	0.00	C
ATOM	4493	HB2	CYS	X	475	42.379	101.287	100.031	1.00	0.00	H
ATOM	4494	HB3	CYS	X	475	42.494	102.861	99.187	1.00	0.00	H
ATOM	4495	SG	CYS	X	475	43.352	103.083	101.431	1.00	0.00	S
ATOM	4496	HG	CYS	X	475	43.448	102.025	102.242	1.00	0.00	H
ATOM	4497	C	CYS	X	475	39.591	101.893	99.496	1.00	0.00	C
ATOM	4498	O	CYS	X	475	39.948	101.626	98.371	1.00	0.00	O
ATOM	4499	N	HID	X	476	38.318	101.680	99.848	1.00	0.00	N
ATOM	4500	H	HID	X	476	37.980	102.121	100.691	1.00	0.00	H
ATOM	4501	CA	HID	X	476	37.416	100.712	99.217	1.00	0.00	C
ATOM	4502	HA	HID	X	476	38.047	99.860	98.966	1.00	0.00	H
ATOM	4503	CB	HID	X	476	36.147	100.346	99.998	1.00	0.00	C
ATOM	4504	HB2	HID	X	476	35.495	99.774	99.336	1.00	0.00	H
ATOM	4505	HB3	HID	X	476	36.543	99.700	100.783	1.00	0.00	H
ATOM	4506	CG	HID	X	476	35.386	101.505	100.460	1.00	0.00	C
ATOM	4507	ND1	HID	X	476	35.493	102.142	101.681	1.00	0.00	N
ATOM	4508	HD1	HID	X	476	36.105	101.847	102.429	1.00	0.00	H

ATOM	4509	CE1	HID	X	476	34.381	102.897	101.832	1.00	0.00	C
ATOM	4510	HE1	HID	X	476	34.109	103.526	102.667	1.00	0.00	H
ATOM	4511	NE2	HID	X	476	33.623	102.870	100.705	1.00	0.00	N
ATOM	4512	CD2	HID	X	476	34.249	101.991	99.893	1.00	0.00	C
ATOM	4513	HD2	HID	X	476	33.802	101.685	98.960	1.00	0.00	H
ATOM	4514	C	HID	X	476	36.932	101.183	97.851	1.00	0.00	C
ATOM	4515	O	HID	X	476	36.804	100.333	96.952	1.00	0.00	O
ATOM	4516	N	GLN	X	477	36.706	102.502	97.688	1.00	0.00	N
ATOM	4517	H	GLN	X	477	37.034	103.096	98.436	1.00	0.00	H
ATOM	4518	CA	GLN	X	477	36.271	103.038	96.403	1.00	0.00	C
ATOM	4519	HA	GLN	X	477	35.627	102.251	96.010	1.00	0.00	H
ATOM	4520	CB	GLN	X	477	35.385	104.250	96.681	1.00	0.00	C
ATOM	4521	HB2	GLN	X	477	34.520	104.021	97.305	1.00	0.00	H
ATOM	4522	HB3	GLN	X	477	36.114	104.992	97.007	1.00	0.00	H
ATOM	4523	CG	GLN	X	477	34.746	104.715	95.338	1.00	0.00	C
ATOM	4524	HG2	GLN	X	477	34.742	105.798	95.456	1.00	0.00	H
ATOM	4525	HG3	GLN	X	477	35.304	104.484	94.431	1.00	0.00	H
ATOM	4526	CD	GLN	X	477	33.330	104.211	95.225	1.00	0.00	C
ATOM	4527	OE1	GLN	X	477	33.048	103.306	94.464	1.00	0.00	O
ATOM	4528	NE2	GLN	X	477	32.341	104.703	95.997	1.00	0.00	N
ATOM	4529	HE21	GLN	X	477	31.386	104.398	95.869	1.00	0.00	H
ATOM	4530	HE22	GLN	X	477	32.502	105.363	96.743	1.00	0.00	H
ATOM	4531	C	GLN	X	477	37.436	103.187	95.389	1.00	0.00	C
ATOM	4532	O	GLN	X	477	37.239	103.075	94.190	1.00	0.00	O
ATOM	4533	N	GLU	X	478	38.680	103.519	95.872	1.00	0.00	N
ATOM	4534	H	GLU	X	478	38.828	103.636	96.864	1.00	0.00	H
ATOM	4535	CA	GLU	X	478	39.851	103.496	94.950	1.00	0.00	C
ATOM	4536	HA	GLU	X	478	39.800	104.094	94.040	1.00	0.00	H
ATOM	4537	CB	GLU	X	478	41.075	103.942	95.799	1.00	0.00	C
ATOM	4538	HB2	GLU	X	478	41.147	103.416	96.751	1.00	0.00	H
ATOM	4539	HB3	GLU	X	478	41.913	103.601	95.190	1.00	0.00	H
ATOM	4540	CG	GLU	X	478	41.300	105.458	95.998	1.00	0.00	C
ATOM	4541	HG2	GLU	X	478	40.791	105.802	96.899	1.00	0.00	H
ATOM	4542	HG3	GLU	X	478	42.368	105.645	96.118	1.00	0.00	H
ATOM	4543	CD	GLU	X	478	40.907	106.299	94.818	1.00	0.00	C
ATOM	4544	OE1	GLU	X	478	41.202	105.973	93.678	1.00	0.00	O
ATOM	4545	OE2	GLU	X	478	40.227	107.349	95.067	1.00	0.00	O
ATOM	4546	C	GLU	X	478	40.087	102.060	94.318	1.00	0.00	C
ATOM	4547	O	GLU	X	478	40.499	101.867	93.198	1.00	0.00	O
ATOM	4548	N	LEU	X	479	39.884	101.014	95.209	1.00	0.00	N
ATOM	4549	H	LEU	X	479	39.709	101.193	96.187	1.00	0.00	H
ATOM	4550	CA	LEU	X	479	39.876	99.656	94.704	1.00	0.00	C
ATOM	4551	HA	LEU	X	479	40.833	99.438	94.232	1.00	0.00	H
ATOM	4552	CB	LEU	X	479	39.914	98.798	95.989	1.00	0.00	C
ATOM	4553	HB2	LEU	X	479	39.150	99.096	96.709	1.00	0.00	H
ATOM	4554	HB3	LEU	X	479	39.541	97.816	95.697	1.00	0.00	H
ATOM	4555	CG	LEU	X	479	41.228	98.673	96.702	1.00	0.00	C
ATOM	4556	HG	LEU	X	479	41.598	99.695	96.636	1.00	0.00	H
ATOM	4557	CD1	LEU	X	479	41.212	98.227	98.147	1.00	0.00	C
ATOM	4558	HD11	LEU	X	479	40.766	97.240	98.269	1.00	0.00	H
ATOM	4559	HD12	LEU	X	479	42.239	98.210	98.509	1.00	0.00	H
ATOM	4560	HD13	LEU	X	479	40.604	99.003	98.614	1.00	0.00	H
ATOM	4561	CD2	LEU	X	479	42.205	97.722	95.957	1.00	0.00	C
ATOM	4562	HD21	LEU	X	479	43.146	97.717	96.507	1.00	0.00	H
ATOM	4563	HD22	LEU	X	479	41.869	96.694	95.832	1.00	0.00	H
ATOM	4564	HD23	LEU	X	479	42.371	98.120	94.955	1.00	0.00	H
ATOM	4565	C	LEU	X	479	38.842	99.288	93.721	1.00	0.00	C
ATOM	4566	O	LEU	X	479	39.186	98.951	92.636	1.00	0.00	O
ATOM	4567	N	LEU	X	480	37.573	99.517	94.080	1.00	0.00	N
ATOM	4568	H	LEU	X	480	37.334	99.870	94.996	1.00	0.00	H
ATOM	4569	CA	LEU	X	480	36.361	99.379	93.279	1.00	0.00	C
ATOM	4570	HA	LEU	X	480	36.299	98.329	92.993	1.00	0.00	H
ATOM	4571	CB	LEU	X	480	35.118	99.719	94.109	1.00	0.00	C
ATOM	4572	HB2	LEU	X	480	35.157	100.725	94.529	1.00	0.00	H
ATOM	4573	HB3	LEU	X	480	34.238	99.704	93.467	1.00	0.00	H
ATOM	4574	CG	LEU	X	480	34.827	98.696	95.227	1.00	0.00	C
ATOM	4575	HG	LEU	X	480	35.586	98.604	96.005	1.00	0.00	H
ATOM	4576	CD1	LEU	X	480	33.450	98.859	95.896	1.00	0.00	C
ATOM	4577	HD11	LEU	X	480	33.388	98.108	96.684	1.00	0.00	H
ATOM	4578	HD12	LEU	X	480	33.254	99.896	96.163	1.00	0.00	H
ATOM	4579	HD13	LEU	X	480	32.730	98.646	95.106	1.00	0.00	H
ATOM	4580	CD2	LEU	X	480	34.638	97.250	94.607	1.00	0.00	C
ATOM	4581	HD21	LEU	X	480	35.608	96.806	94.389	1.00	0.00	H
ATOM	4582	HD22	LEU	X	480	34.241	96.519	95.312	1.00	0.00	H
ATOM	4583	HD23	LEU	X	480	34.012	97.249	93.714	1.00	0.00	H
ATOM	4584	C	LEU	X	480	36.451	100.173	91.981	1.00	0.00	C
ATOM	4585	O	LEU	X	480	35.512	100.096	91.199	1.00	0.00	O
ATOM	4586	N	LEU	X	481	37.422	101.066	91.760	1.00	0.00	N
ATOM	4587	H	LEU	X	481	38.172	101.154	92.430	1.00	0.00	H
ATOM	4588	CA	LEU	X	481	37.618	101.841	90.468	1.00	0.00	C
ATOM	4589	HA	LEU	X	481	36.747	101.658	89.839	1.00	0.00	H
ATOM	4590	CB	LEU	X	481	37.755	103.390	90.790	1.00	0.00	C

ATOM	4591	HB2	LEU	X	481	38.409	103.422	91.660	1.00	0.00	H
ATOM	4592	HB3	LEU	X	481	38.354	103.855	90.006	1.00	0.00	H
ATOM	4593	CG	LEU	X	481	36.333	104.012	91.090	1.00	0.00	C
ATOM	4594	HG	LEU	X	481	35.831	103.502	91.912	1.00	0.00	H
ATOM	4595	CD1	LEU	X	481	36.621	105.458	91.492	1.00	0.00	C
ATOM	4596	HD11	LEU	X	481	37.086	106.050	90.702	1.00	0.00	H
ATOM	4597	HD12	LEU	X	481	35.673	105.946	91.724	1.00	0.00	H
ATOM	4598	HD13	LEU	X	481	37.217	105.476	92.404	1.00	0.00	H
ATOM	4599	CD2	LEU	X	481	35.424	104.086	89.881	1.00	0.00	C
ATOM	4600	HD21	LEU	X	481	34.631	104.822	90.014	1.00	0.00	H
ATOM	4601	HD22	LEU	X	481	36.001	104.488	89.049	1.00	0.00	H
ATOM	4602	HD23	LEU	X	481	34.959	103.140	89.603	1.00	0.00	H
ATOM	4603	C	LEU	X	481	38.821	101.238	89.688	1.00	0.00	C
ATOM	4604	O	LEU	X	481	38.881	101.492	88.471	1.00	0.00	O
ATOM	4605	N	GLN	X	482	39.797	100.522	90.327	1.00	0.00	N
ATOM	4606	H	GLN	X	482	39.658	100.355	91.314	1.00	0.00	H
ATOM	4607	CA	GLN	X	482	40.827	99.746	89.634	1.00	0.00	C
ATOM	4608	HA	GLN	X	482	40.999	100.237	88.676	1.00	0.00	H
ATOM	4609	CB	GLN	X	482	42.169	99.648	90.436	1.00	0.00	C
ATOM	4610	HB2	GLN	X	482	42.067	99.220	91.434	1.00	0.00	H
ATOM	4611	HB3	GLN	X	482	42.769	98.823	90.048	1.00	0.00	H
ATOM	4612	CG	GLN	X	482	42.955	101.002	90.432	1.00	0.00	C
ATOM	4613	HG2	GLN	X	482	42.931	101.548	89.490	1.00	0.00	H
ATOM	4614	HG3	GLN	X	482	42.494	101.749	91.079	1.00	0.00	H
ATOM	4615	CD	GLN	X	482	44.415	100.926	90.835	1.00	0.00	C
ATOM	4616	OE1	GLN	X	482	44.941	99.868	91.042	1.00	0.00	O
ATOM	4617	NE2	GLN	X	482	45.042	102.102	90.949	1.00	0.00	N
ATOM	4618	HE21	GLN	X	482	46.052	102.068	90.982	1.00	0.00	H
ATOM	4619	HE22	GLN	X	482	44.456	102.922	90.881	1.00	0.00	H
ATOM	4620	C	GLN	X	482	40.328	98.330	89.216	1.00	0.00	C
ATOM	4621	O	GLN	X	482	40.688	97.874	88.133	1.00	0.00	O
ATOM	4622	N	ASP	X	483	39.578	97.660	90.083	1.00	0.00	N
ATOM	4623	H	ASP	X	483	39.397	98.162	90.940	1.00	0.00	H
ATOM	4624	CA	ASP	X	483	38.792	96.438	89.777	1.00	0.00	C
ATOM	4625	HA	ASP	X	483	38.431	96.131	90.758	1.00	0.00	H
ATOM	4626	CB	ASP	X	483	37.503	96.672	89.006	1.00	0.00	C
ATOM	4627	HB2	ASP	X	483	36.878	97.450	89.446	1.00	0.00	H
ATOM	4628	HB3	ASP	X	483	37.716	97.078	88.018	1.00	0.00	H
ATOM	4629	CG	ASP	X	483	36.788	95.349	88.815	1.00	0.00	C
ATOM	4630	OD1	ASP	X	483	36.811	94.518	89.753	1.00	0.00	O
ATOM	4631	OD2	ASP	X	483	36.169	95.279	87.739	1.00	0.00	O
ATOM	4632	C	ASP	X	483	39.723	95.273	89.210	1.00	0.00	C
ATOM	4633	O	ASP	X	483	40.536	94.682	89.951	1.00	0.00	O
ATOM	4634	N	GLY	X	484	39.826	95.172	87.865	1.00	0.00	N
ATOM	4635	H	GLY	X	484	39.142	95.675	87.318	1.00	0.00	H
ATOM	4636	CA	GLY	X	484	40.692	94.117	87.289	1.00	0.00	C
ATOM	4637	HA2	GLY	X	484	40.499	93.135	87.724	1.00	0.00	H
ATOM	4638	HA3	GLY	X	484	40.367	94.099	86.249	1.00	0.00	H
ATOM	4639	C	GLY	X	484	42.156	94.406	87.318	1.00	0.00	C
ATOM	4640	O	GLY	X	484	42.946	93.460	87.414	1.00	0.00	O
ATOM	4641	N	GLY	X	485	42.540	95.636	87.109	1.00	0.00	N
ATOM	4642	H	GLY	X	485	41.804	96.224	86.747	1.00	0.00	H
ATOM	4643	CA	GLY	X	485	43.849	96.240	87.150	1.00	0.00	C
ATOM	4644	HA2	GLY	X	485	44.599	95.683	86.590	1.00	0.00	H
ATOM	4645	HA3	GLY	X	485	43.822	97.198	86.631	1.00	0.00	H
ATOM	4646	C	GLY	X	485	44.483	96.526	88.541	1.00	0.00	C
ATOM	4647	O	GLY	X	485	45.525	97.093	88.553	1.00	0.00	O
ATOM	4648	N	SER	X	486	43.872	96.045	89.628	1.00	0.00	N
ATOM	4649	H	SER	X	486	42.982	95.583	89.506	1.00	0.00	H
ATOM	4650	CA	SER	X	486	44.242	96.413	91.020	1.00	0.00	C
ATOM	4651	HA	SER	X	486	44.311	97.499	91.081	1.00	0.00	H
ATOM	4652	CB	SER	X	486	43.182	95.759	91.943	1.00	0.00	C
ATOM	4653	HB2	SER	X	486	43.063	94.757	91.530	1.00	0.00	H
ATOM	4654	HB3	SER	X	486	43.388	95.655	93.008	1.00	0.00	H
ATOM	4655	OG	SER	X	486	41.847	96.378	91.638	1.00	0.00	O
ATOM	4656	HG	SER	X	486	41.249	95.679	91.359	1.00	0.00	H
ATOM	4657	C	SER	X	486	45.698	95.996	91.504	1.00	0.00	C
ATOM	4658	O	SER	X	486	46.355	95.187	90.868	1.00	0.00	O
ATOM	4659	N	PRO	X	487	46.259	96.728	92.517	1.00	0.00	N
ATOM	4660	CD	PRO	X	487	45.566	97.579	93.476	1.00	0.00	C
ATOM	4661	HD2	PRO	X	487	44.688	97.069	93.875	1.00	0.00	H
ATOM	4662	HD3	PRO	X	487	45.289	98.547	93.062	1.00	0.00	H
ATOM	4663	CG	PRO	X	487	46.503	97.853	94.670	1.00	0.00	C
ATOM	4664	HG2	PRO	X	487	46.289	97.110	95.438	1.00	0.00	H
ATOM	4665	HG3	PRO	X	487	46.405	98.832	95.139	1.00	0.00	H
ATOM	4666	CB	PRO	X	487	47.887	97.549	94.135	1.00	0.00	C
ATOM	4667	HB2	PRO	X	487	48.590	97.088	94.829	1.00	0.00	H
ATOM	4668	HB3	PRO	X	487	48.310	98.480	93.758	1.00	0.00	H
ATOM	4669	CA	PRO	X	487	47.615	96.508	92.978	1.00	0.00	C
ATOM	4670	HA	PRO	X	487	48.386	96.640	92.221	1.00	0.00	H
ATOM	4671	C	PRO	X	487	47.814	95.145	93.616	1.00	0.00	C
ATOM	4672	O	PRO	X	487	46.865	94.536	94.133	1.00	0.00	O

ATOM	4673	N	LYS	X	488	49.075	94.623	93.633	1.00	0.00	N
ATOM	4674	H	LYS	X	488	49.813	95.299	93.496	1.00	0.00	H
ATOM	4675	CA	LYS	X	488	49.384	93.206	93.893	1.00	0.00	C
ATOM	4676	HA	LYS	X	488	48.549	92.834	94.486	1.00	0.00	H
ATOM	4677	CB	LYS	X	488	49.344	92.370	92.587	1.00	0.00	C
ATOM	4678	HB2	LYS	X	488	49.588	91.343	92.859	1.00	0.00	H
ATOM	4679	HB3	LYS	X	488	48.326	92.465	92.210	1.00	0.00	H
ATOM	4680	CG	LYS	X	488	50.421	92.867	91.554	1.00	0.00	C
ATOM	4681	HG2	LYS	X	488	50.257	93.902	91.254	1.00	0.00	H
ATOM	4682	HG3	LYS	X	488	51.443	92.767	91.919	1.00	0.00	H
ATOM	4683	CD	LYS	X	488	50.456	91.929	90.285	1.00	0.00	C
ATOM	4684	HD2	LYS	X	488	50.833	90.937	90.537	1.00	0.00	H
ATOM	4685	HD3	LYS	X	488	49.493	91.925	89.774	1.00	0.00	H
ATOM	4686	CE	LYS	X	488	51.536	92.507	89.420	1.00	0.00	C
ATOM	4687	HE2	LYS	X	488	51.118	93.331	88.841	1.00	0.00	H
ATOM	4688	HE3	LYS	X	488	52.366	92.777	90.073	1.00	0.00	H
ATOM	4689	NZ	LYS	X	488	51.965	91.478	88.472	1.00	0.00	N
ATOM	4690	HZ1	LYS	X	488	51.157	91.180	87.943	1.00	0.00	H
ATOM	4691	HZ2	LYS	X	488	52.637	91.799	87.791	1.00	0.00	H
ATOM	4692	HZ3	LYS	X	488	52.433	90.686	88.890	1.00	0.00	H
ATOM	4693	C	LYS	X	488	50.605	93.003	94.822	1.00	0.00	C
ATOM	4694	O	LYS	X	488	50.858	91.871	95.230	1.00	0.00	O
ATOM	4695	N	THR	X	489	51.223	94.120	95.330	1.00	0.00	N
ATOM	4696	H	THR	X	489	50.878	95.046	95.121	1.00	0.00	H
ATOM	4697	CA	THR	X	489	52.401	94.118	96.142	1.00	0.00	C
ATOM	4698	HA	THR	X	489	52.532	93.171	96.666	1.00	0.00	H
ATOM	4699	CB	THR	X	489	53.587	94.499	95.190	1.00	0.00	C
ATOM	4700	HB	THR	X	489	54.441	94.174	95.784	1.00	0.00	H
ATOM	4701	CG2	THR	X	489	53.673	93.786	93.901	1.00	0.00	C
ATOM	4702	HG21	THR	X	489	52.710	93.947	93.415	1.00	0.00	H
ATOM	4703	HG22	THR	X	489	54.499	94.123	93.273	1.00	0.00	H
ATOM	4704	HG23	THR	X	489	53.930	92.756	94.145	1.00	0.00	H
ATOM	4705	OG1	THR	X	489	53.545	95.931	94.998	1.00	0.00	O
ATOM	4706	HG1	THR	X	489	52.618	96.094	94.811	1.00	0.00	H
ATOM	4707	C	THR	X	489	52.148	95.087	97.310	1.00	0.00	C
ATOM	4708	O	THR	X	489	51.179	95.855	97.300	1.00	0.00	O
ATOM	4709	N	THR	X	490	52.874	94.978	98.436	1.00	0.00	N
ATOM	4710	H	THR	X	490	53.685	94.377	98.415	1.00	0.00	H
ATOM	4711	CA	THR	X	490	52.754	95.897	99.628	1.00	0.00	C
ATOM	4712	HA	THR	X	490	51.735	96.001	100.001	1.00	0.00	H
ATOM	4713	CB	THR	X	490	53.549	95.589	100.904	1.00	0.00	C
ATOM	4714	HB	THR	X	490	54.624	95.520	100.729	1.00	0.00	H
ATOM	4715	CG2	THR	X	490	53.212	96.468	102.077	1.00	0.00	C
ATOM	4716	HG21	THR	X	490	53.647	96.139	103.020	1.00	0.00	H
ATOM	4717	HG22	THR	X	490	53.584	97.472	101.873	1.00	0.00	H
ATOM	4718	HG23	THR	X	490	52.162	96.735	101.957	1.00	0.00	H
ATOM	4719	OG1	THR	X	490	53.131	94.374	101.364	1.00	0.00	O
ATOM	4720	HG1	THR	X	490	53.460	93.668	100.804	1.00	0.00	H
ATOM	4721	C	THR	X	490	53.003	97.338	99.173	1.00	0.00	C
ATOM	4722	O	THR	X	490	52.197	98.225	99.554	1.00	0.00	O
ATOM	4723	N	THR	X	491	54.068	97.483	98.314	1.00	0.00	N
ATOM	4724	H	THR	X	491	54.700	96.738	98.054	1.00	0.00	H
ATOM	4725	CA	THR	X	491	54.421	98.799	97.742	1.00	0.00	C
ATOM	4726	HA	THR	X	491	54.773	99.411	98.573	1.00	0.00	H
ATOM	4727	CB	THR	X	491	55.655	98.715	96.884	1.00	0.00	C
ATOM	4728	HB	THR	X	491	55.361	98.145	96.002	1.00	0.00	H
ATOM	4729	CG2	THR	X	491	56.316	100.061	96.401	1.00	0.00	C
ATOM	4730	HG21	THR	X	491	56.035	100.870	97.075	1.00	0.00	H
ATOM	4731	HG22	THR	X	491	57.356	99.868	96.139	1.00	0.00	H
ATOM	4732	HG23	THR	X	491	55.796	100.298	95.475	1.00	0.00	H
ATOM	4733	OG1	THR	X	491	56.659	97.945	97.467	1.00	0.00	O
ATOM	4734	HG1	THR	X	491	56.410	97.021	97.545	1.00	0.00	H
ATOM	4735	C	THR	X	491	53.328	99.545	96.970	1.00	0.00	C
ATOM	4736	O	THR	X	491	53.151	100.762	97.153	1.00	0.00	O
ATOM	4737	N	ASP	X	492	52.712	98.863	95.976	1.00	0.00	N
ATOM	4738	H	ASP	X	492	52.992	97.911	95.791	1.00	0.00	H
ATOM	4739	CA	ASP	X	492	51.760	99.588	95.109	1.00	0.00	C
ATOM	4740	HA	ASP	X	492	52.170	100.592	94.993	1.00	0.00	H
ATOM	4741	CB	ASP	X	492	51.815	99.123	93.670	1.00	0.00	C
ATOM	4742	HB2	ASP	X	492	51.155	99.759	93.082	1.00	0.00	H
ATOM	4743	HB3	ASP	X	492	52.866	99.298	93.437	1.00	0.00	H
ATOM	4744	CG	ASP	X	492	51.382	97.650	93.476	1.00	0.00	C
ATOM	4745	OD1	ASP	X	492	51.146	97.297	92.275	1.00	0.00	O
ATOM	4746	OD2	ASP	X	492	51.259	96.822	94.377	1.00	0.00	O
ATOM	4747	C	ASP	X	492	50.317	99.591	95.662	1.00	0.00	C
ATOM	4748	O	ASP	X	492	49.532	100.462	95.296	1.00	0.00	O
ATOM	4749	N	MET	X	493	49.926	98.690	96.628	1.00	0.00	N
ATOM	4750	H	MET	X	493	50.591	97.943	96.780	1.00	0.00	H
ATOM	4751	CA	MET	X	493	48.888	99.025	97.560	1.00	0.00	C
ATOM	4752	HA	MET	X	493	47.977	99.131	96.972	1.00	0.00	H
ATOM	4753	CB	MET	X	493	48.721	97.881	98.567	1.00	0.00	C
ATOM	4754	HB2	MET	X	493	48.332	97.037	97.997	1.00	0.00	H

ATOM	4755	HB3	MET	X	493	49.696	97.629	98.982	1.00	0.00	H
ATOM	4756	CG	MET	X	493	47.657	98.169	99.673	1.00	0.00	C
ATOM	4757	HG2	MET	X	493	47.651	97.434	100.478	1.00	0.00	H
ATOM	4758	HG3	MET	X	493	48.007	99.121	100.074	1.00	0.00	H
ATOM	4759	SD	MET	X	493	45.955	98.298	98.883	1.00	0.00	S
ATOM	4760	CE	MET	X	493	45.159	99.241	100.155	1.00	0.00	C
ATOM	4761	HE1	MET	X	493	44.105	99.271	99.877	1.00	0.00	H
ATOM	4762	HE2	MET	X	493	45.307	98.794	101.138	1.00	0.00	H
ATOM	4763	HE3	MET	X	493	45.480	100.281	100.198	1.00	0.00	H
ATOM	4764	C	MET	X	493	49.238	100.299	98.307	1.00	0.00	C
ATOM	4765	O	MET	X	493	48.324	101.141	98.317	1.00	0.00	O
ATOM	4766	N	TYR	X	494	50.468	100.465	98.874	1.00	0.00	N
ATOM	4767	H	TYR	X	494	51.056	99.649	98.963	1.00	0.00	H
ATOM	4768	CA	TYR	X	494	50.798	101.793	99.526	1.00	0.00	C
ATOM	4769	HA	TYR	X	494	49.965	101.969	100.206	1.00	0.00	H
ATOM	4770	CB	TYR	X	494	52.049	101.660	100.423	1.00	0.00	C
ATOM	4771	HB2	TYR	X	494	52.842	101.175	99.857	1.00	0.00	H
ATOM	4772	HB3	TYR	X	494	52.319	102.698	100.619	1.00	0.00	H
ATOM	4773	CG	TYR	X	494	51.875	100.919	101.779	1.00	0.00	C
ATOM	4774	CD1	TYR	X	494	50.988	99.840	101.881	1.00	0.00	C
ATOM	4775	HD1	TYR	X	494	50.310	99.501	101.112	1.00	0.00	H
ATOM	4776	CE1	TYR	X	494	50.808	99.168	103.139	1.00	0.00	C
ATOM	4777	HE1	TYR	X	494	50.079	98.396	103.335	1.00	0.00	H
ATOM	4778	CZ	TYR	X	494	51.570	99.603	104.249	1.00	0.00	C
ATOM	4779	OH	TYR	X	494	51.252	99.112	105.405	1.00	0.00	O
ATOM	4780	HH	TYR	X	494	51.102	98.174	105.266	1.00	0.00	H
ATOM	4781	CE2	TYR	X	494	52.425	100.748	104.147	1.00	0.00	C
ATOM	4782	HE2	TYR	X	494	52.860	101.252	104.997	1.00	0.00	H
ATOM	4783	CD2	TYR	X	494	52.613	101.359	102.907	1.00	0.00	C
ATOM	4784	HD2	TYR	X	494	53.159	102.287	102.811	1.00	0.00	H
ATOM	4785	C	TYR	X	494	50.786	103.033	98.627	1.00	0.00	C
ATOM	4786	O	TYR	X	494	50.357	104.082	99.005	1.00	0.00	O
ATOM	4787	N	LEU	X	495	51.093	102.811	97.277	1.00	0.00	N
ATOM	4788	H	LEU	X	495	51.512	101.947	96.965	1.00	0.00	H
ATOM	4789	CA	LEU	X	495	50.880	103.783	96.236	1.00	0.00	C
ATOM	4790	HA	LEU	X	495	51.338	104.741	96.476	1.00	0.00	H
ATOM	4791	CB	LEU	X	495	51.508	103.324	94.908	1.00	0.00	C
ATOM	4792	HB2	LEU	X	495	51.119	102.349	94.613	1.00	0.00	H
ATOM	4793	HB3	LEU	X	495	51.301	103.986	94.067	1.00	0.00	H
ATOM	4794	CG	LEU	X	495	53.018	103.297	94.805	1.00	0.00	C
ATOM	4795	HG	LEU	X	495	53.328	102.663	95.636	1.00	0.00	H
ATOM	4796	CD1	LEU	X	495	53.541	102.635	93.526	1.00	0.00	C
ATOM	4797	HD11	LEU	X	495	54.624	102.603	93.641	1.00	0.00	H
ATOM	4798	HD12	LEU	X	495	53.174	101.613	93.427	1.00	0.00	H
ATOM	4799	HD13	LEU	X	495	53.416	103.172	92.585	1.00	0.00	H
ATOM	4800	CD2	LEU	X	495	53.681	104.604	94.847	1.00	0.00	C
ATOM	4801	HD21	LEU	X	495	54.748	104.390	94.792	1.00	0.00	H
ATOM	4802	HD22	LEU	X	495	53.394	105.221	93.997	1.00	0.00	H
ATOM	4803	HD23	LEU	X	495	53.404	105.101	95.776	1.00	0.00	H
ATOM	4804	C	LEU	X	495	49.383	104.108	96.060	1.00	0.00	C
ATOM	4805	O	LEU	X	495	49.030	105.294	95.931	1.00	0.00	O
ATOM	4806	N	LEU	X	496	48.482	103.120	96.078	1.00	0.00	N
ATOM	4807	H	LEU	X	496	48.736	102.145	96.140	1.00	0.00	H
ATOM	4808	CA	LEU	X	496	47.043	103.354	96.082	1.00	0.00	C
ATOM	4809	HA	LEU	X	496	46.712	103.899	95.198	1.00	0.00	H
ATOM	4810	CB	LEU	X	496	46.271	102.014	95.940	1.00	0.00	C
ATOM	4811	HB2	LEU	X	496	46.619	101.638	94.977	1.00	0.00	H
ATOM	4812	HB3	LEU	X	496	46.403	101.336	96.783	1.00	0.00	H
ATOM	4813	CG	LEU	X	496	44.749	102.077	95.713	1.00	0.00	C
ATOM	4814	HG	LEU	X	496	44.504	103.095	95.407	1.00	0.00	H
ATOM	4815	CD1	LEU	X	496	44.110	101.089	94.817	1.00	0.00	C
ATOM	4816	HD11	LEU	X	496	43.052	101.285	94.991	1.00	0.00	H
ATOM	4817	HD12	LEU	X	496	44.518	101.215	93.814	1.00	0.00	H
ATOM	4818	HD13	LEU	X	496	44.433	100.093	95.120	1.00	0.00	H
ATOM	4819	CD2	LEU	X	496	44.105	101.922	97.136	1.00	0.00	C
ATOM	4820	HD21	LEU	X	496	44.204	100.909	97.529	1.00	0.00	H
ATOM	4821	HD22	LEU	X	496	44.398	102.650	97.893	1.00	0.00	H
ATOM	4822	HD23	LEU	X	496	43.039	102.101	96.995	1.00	0.00	H
ATOM	4823	C	LEU	X	496	46.572	104.141	97.320	1.00	0.00	C
ATOM	4824	O	LEU	X	496	45.774	105.100	97.234	1.00	0.00	O
ATOM	4825	N	ILE	X	497	47.149	103.912	98.540	1.00	0.00	N
ATOM	4826	H	ILE	X	497	47.728	103.086	98.592	1.00	0.00	H
ATOM	4827	CA	ILE	X	497	46.703	104.513	99.850	1.00	0.00	C
ATOM	4828	HA	ILE	X	497	45.625	104.454	100.007	1.00	0.00	H
ATOM	4829	CB	ILE	X	497	47.499	103.878	101.035	1.00	0.00	C
ATOM	4830	HB	ILE	X	497	48.558	103.914	100.778	1.00	0.00	H
ATOM	4831	CG2	ILE	X	497	47.211	104.539	102.376	1.00	0.00	C
ATOM	4832	HG21	ILE	X	497	46.211	104.286	102.728	1.00	0.00	H
ATOM	4833	HG22	ILE	X	497	48.002	104.153	103.019	1.00	0.00	H
ATOM	4834	HG23	ILE	X	497	47.159	105.627	102.330	1.00	0.00	H
ATOM	4835	CG1	ILE	X	497	47.087	102.377	101.122	1.00	0.00	C
ATOM	4836	HG12	ILE	X	497	46.084	102.385	101.550	1.00	0.00	H

ATOM	4837	HG13	ILE	X	497	46.978	101.807	100.199	1.00	0.00	H
ATOM	4838	CD1	ILE	X	497	47.968	101.602	102.087	1.00	0.00	C
ATOM	4839	HD11	ILE	X	497	47.490	101.641	103.066	1.00	0.00	H
ATOM	4840	HD12	ILE	X	497	47.791	100.539	101.918	1.00	0.00	H
ATOM	4841	HD13	ILE	X	497	49.005	101.931	102.155	1.00	0.00	H
ATOM	4842	C	ILE	X	497	47.116	105.999	99.738	1.00	0.00	C
ATOM	4843	O	ILE	X	497	46.212	106.805	100.042	1.00	0.00	O
ATOM	4844	N	LEU	X	498	48.337	106.346	99.320	1.00	0.00	N
ATOM	4845	H	LEU	X	498	48.848	105.532	99.011	1.00	0.00	H
ATOM	4846	CA	LEU	X	498	48.660	107.754	99.003	1.00	0.00	C
ATOM	4847	HA	LEU	X	498	48.671	108.298	99.948	1.00	0.00	H
ATOM	4848	CB	LEU	X	498	50.092	107.791	98.402	1.00	0.00	C
ATOM	4849	HB2	LEU	X	498	50.785	107.242	99.038	1.00	0.00	H
ATOM	4850	HB3	LEU	X	498	50.016	107.257	97.454	1.00	0.00	H
ATOM	4851	CG	LEU	X	498	50.601	109.189	98.081	1.00	0.00	C
ATOM	4852	HG	LEU	X	498	49.921	109.645	97.361	1.00	0.00	H
ATOM	4853	CD1	LEU	X	498	50.786	110.032	99.391	1.00	0.00	C
ATOM	4854	HD11	LEU	X	498	51.050	109.406	100.245	1.00	0.00	H
ATOM	4855	HD12	LEU	X	498	51.621	110.716	99.251	1.00	0.00	H
ATOM	4856	HD13	LEU	X	498	49.844	110.559	99.547	1.00	0.00	H
ATOM	4857	CD2	LEU	X	498	51.966	109.065	97.442	1.00	0.00	C
ATOM	4858	HD21	LEU	X	498	51.964	108.443	96.546	1.00	0.00	H
ATOM	4859	HD22	LEU	X	498	52.329	110.025	97.075	1.00	0.00	H
ATOM	4860	HD23	LEU	X	498	52.600	108.544	98.160	1.00	0.00	H
ATOM	4861	C	LEU	X	498	47.701	108.460	98.007	1.00	0.00	C
ATOM	4862	O	LEU	X	498	47.425	109.617	98.100	1.00	0.00	O
ATOM	4863	N	GLN	X	499	47.296	107.802	96.896	1.00	0.00	N
ATOM	4864	H	GLN	X	499	47.500	106.816	96.815	1.00	0.00	H
ATOM	4865	CA	GLN	X	499	46.261	108.395	96.009	1.00	0.00	C
ATOM	4866	HA	GLN	X	499	46.700	109.322	95.636	1.00	0.00	H
ATOM	4867	CB	GLN	X	499	46.010	107.359	94.870	1.00	0.00	C
ATOM	4868	HB2	GLN	X	499	46.774	107.478	94.104	1.00	0.00	H
ATOM	4869	HB3	GLN	X	499	46.168	106.363	95.288	1.00	0.00	H
ATOM	4870	CG	GLN	X	499	44.681	107.315	94.200	1.00	0.00	C
ATOM	4871	HG2	GLN	X	499	43.971	106.868	94.896	1.00	0.00	H
ATOM	4872	HG3	GLN	X	499	44.337	108.317	93.949	1.00	0.00	H
ATOM	4873	CD	GLN	X	499	44.736	106.505	92.874	1.00	0.00	C
ATOM	4874	OE1	GLN	X	499	45.731	105.988	92.360	1.00	0.00	O
ATOM	4875	NE2	GLN	X	499	43.598	106.416	92.178	1.00	0.00	N
ATOM	4876	HE21	GLN	X	499	43.603	105.739	91.428	1.00	0.00	H
ATOM	4877	HE22	GLN	X	499	42.698	106.660	92.566	1.00	0.00	H
ATOM	4878	C	GLN	X	499	44.933	108.670	96.745	1.00	0.00	C
ATOM	4879	O	GLN	X	499	44.414	109.768	96.769	1.00	0.00	O
ATOM	4880	N	HIE	X	500	44.453	107.690	97.531	1.00	0.00	N
ATOM	4881	H	HIE	X	500	44.981	106.853	97.734	1.00	0.00	H
ATOM	4882	CA	HIE	X	500	43.227	107.863	98.321	1.00	0.00	C
ATOM	4883	HA	HIE	X	500	42.411	108.084	97.632	1.00	0.00	H
ATOM	4884	CB	HIE	X	500	42.989	106.552	99.080	1.00	0.00	C
ATOM	4885	HB2	HIE	X	500	42.882	105.628	98.512	1.00	0.00	H
ATOM	4886	HB3	HIE	X	500	43.951	106.356	99.556	1.00	0.00	H
ATOM	4887	CG	HIE	X	500	41.855	106.523	100.107	1.00	0.00	C
ATOM	4888	ND1	HIE	X	500	40.567	106.846	99.686	1.00	0.00	N
ATOM	4889	CE1	HIE	X	500	39.907	106.872	100.897	1.00	0.00	C
ATOM	4890	HE1	HIE	X	500	38.984	107.432	100.898	1.00	0.00	H
ATOM	4891	NE2	HIE	X	500	40.657	106.359	101.911	1.00	0.00	N
ATOM	4892	HE2	HIE	X	500	40.355	106.403	102.875	1.00	0.00	H
ATOM	4893	CD2	HIE	X	500	41.921	106.157	101.421	1.00	0.00	C
ATOM	4894	HD2	HIE	X	500	42.873	105.975	101.897	1.00	0.00	H
ATOM	4895	C	HIE	X	500	43.351	109.028	99.320	1.00	0.00	C
ATOM	4896	O	HIE	X	500	42.458	109.848	99.422	1.00	0.00	O
ATOM	4897	N	PHE	X	501	44.499	109.175	100.030	1.00	0.00	N
ATOM	4898	H	PHE	X	501	45.169	108.422	99.970	1.00	0.00	H
ATOM	4899	CA	PHE	X	501	44.852	110.437	100.798	1.00	0.00	C
ATOM	4900	HA	PHE	X	501	44.040	110.640	101.496	1.00	0.00	H
ATOM	4901	CB	PHE	X	501	46.065	110.228	101.610	1.00	0.00	C
ATOM	4902	HB2	PHE	X	501	46.869	110.027	100.902	1.00	0.00	H
ATOM	4903	HB3	PHE	X	501	46.429	111.138	102.090	1.00	0.00	H
ATOM	4904	CG	PHE	X	501	45.992	108.997	102.650	1.00	0.00	C
ATOM	4905	CD1	PHE	X	501	44.849	108.401	103.070	1.00	0.00	C
ATOM	4906	HD1	PHE	X	501	43.954	108.552	102.486	1.00	0.00	H
ATOM	4907	CE1	PHE	X	501	44.853	107.441	104.139	1.00	0.00	C
ATOM	4908	HE1	PHE	X	501	43.973	106.835	104.300	1.00	0.00	H
ATOM	4909	CZ	PHE	X	501	46.056	107.120	104.864	1.00	0.00	C
ATOM	4910	HZ	PHE	X	501	46.030	106.379	105.650	1.00	0.00	H
ATOM	4911	CE2	PHE	X	501	47.223	107.745	104.390	1.00	0.00	C
ATOM	4912	HE2	PHE	X	501	48.121	107.491	104.934	1.00	0.00	H
ATOM	4913	CD2	PHE	X	501	47.228	108.641	103.308	1.00	0.00	C
ATOM	4914	HD2	PHE	X	501	48.164	109.054	102.965	1.00	0.00	H
ATOM	4915	C	PHE	X	501	44.849	111.652	99.974	1.00	0.00	C
ATOM	4916	O	PHE	X	501	44.478	112.670	100.533	1.00	0.00	O
ATOM	4917	N	LEU	X	502	45.390	111.646	98.759	1.00	0.00	N
ATOM	4918	H	LEU	X	502	45.882	110.851	98.375	1.00	0.00	H

ATOM	4919	CA	LEU	X	502	45.339	112.897	97.951	1.00	0.00	C
ATOM	4920	HA	LEU	X	502	45.298	113.707	98.677	1.00	0.00	H
ATOM	4921	CB	LEU	X	502	46.636	112.895	97.076	1.00	0.00	C
ATOM	4922	HB2	LEU	X	502	46.596	112.008	96.444	1.00	0.00	H
ATOM	4923	HB3	LEU	X	502	46.565	113.780	96.443	1.00	0.00	H
ATOM	4924	CG	LEU	X	502	48.024	112.966	97.763	1.00	0.00	C
ATOM	4925	HG	LEU	X	502	48.039	112.205	98.543	1.00	0.00	H
ATOM	4926	CD1	LEU	X	502	49.011	112.614	96.701	1.00	0.00	C
ATOM	4927	HD11	LEU	X	502	49.973	112.597	97.213	1.00	0.00	H
ATOM	4928	HD12	LEU	X	502	48.827	111.567	96.455	1.00	0.00	H
ATOM	4929	HD13	LEU	X	502	48.962	113.235	95.808	1.00	0.00	H
ATOM	4930	CD2	LEU	X	502	48.190	114.301	98.343	1.00	0.00	C
ATOM	4931	HD21	LEU	X	502	48.155	114.965	97.479	1.00	0.00	H
ATOM	4932	HD22	LEU	X	502	47.302	114.499	98.943	1.00	0.00	H
ATOM	4933	HD23	LEU	X	502	49.165	114.372	98.825	1.00	0.00	H
ATOM	4934	C	LEU	X	502	44.037	113.021	97.097	1.00	0.00	C
ATOM	4935	O	LEU	X	502	43.948	113.994	96.326	1.00	0.00	O
ATOM	4936	N	ARG	X	503	43.017	112.072	97.215	1.00	0.00	N
ATOM	4937	H	ARG	X	503	43.301	111.191	97.620	1.00	0.00	H
ATOM	4938	CA	ARG	X	503	41.885	112.298	96.332	1.00	0.00	C
ATOM	4939	HA	ARG	X	503	42.221	112.248	95.296	1.00	0.00	H
ATOM	4940	CB	ARG	X	503	40.821	111.217	96.640	1.00	0.00	C
ATOM	4941	HB2	ARG	X	503	41.212	110.242	96.346	1.00	0.00	H
ATOM	4942	HB3	ARG	X	503	40.431	111.291	97.655	1.00	0.00	H
ATOM	4943	CG	ARG	X	503	39.591	111.297	95.731	1.00	0.00	C
ATOM	4944	HG2	ARG	X	503	39.047	110.396	96.014	1.00	0.00	H
ATOM	4945	HG3	ARG	X	503	38.993	112.153	96.046	1.00	0.00	H
ATOM	4946	CD	ARG	X	503	39.642	111.224	94.151	1.00	0.00	C
ATOM	4947	HD2	ARG	X	503	38.632	111.395	93.780	1.00	0.00	H
ATOM	4948	HD3	ARG	X	503	40.322	111.945	93.697	1.00	0.00	H
ATOM	4949	NE	ARG	X	503	40.093	109.909	93.725	1.00	0.00	N
ATOM	4950	HE	ARG	X	503	39.859	109.203	94.407	1.00	0.00	H
ATOM	4951	CZ	ARG	X	503	40.552	109.582	92.546	1.00	0.00	C
ATOM	4952	NH1	ARG	X	503	40.680	110.445	91.576	1.00	0.00	N
ATOM	4953	HH11	ARG	X	503	40.485	111.425	91.728	1.00	0.00	H
ATOM	4954	HH12	ARG	X	503	40.999	110.210	90.648	1.00	0.00	H
ATOM	4955	NH2	ARG	X	503	40.762	108.330	92.219	1.00	0.00	N
ATOM	4956	HH21	ARG	X	503	40.693	107.593	92.905	1.00	0.00	H
ATOM	4957	HH22	ARG	X	503	40.969	108.040	91.275	1.00	0.00	H
ATOM	4958	C	ARG	X	503	41.172	113.590	96.428	1.00	0.00	C
ATOM	4959	O	ARG	X	503	40.915	114.192	95.408	1.00	0.00	O
ATOM	4960	N	HID	X	504	40.932	114.111	97.661	1.00	0.00	N
ATOM	4961	H	HID	X	504	41.383	113.668	98.450	1.00	0.00	H
ATOM	4962	CA	HID	X	504	40.242	115.401	97.860	1.00	0.00	C
ATOM	4963	HA	HID	X	504	39.223	115.452	97.479	1.00	0.00	H
ATOM	4964	CB	HID	X	504	40.132	115.608	99.350	1.00	0.00	C
ATOM	4965	HB2	HID	X	504	39.511	116.489	99.514	1.00	0.00	H
ATOM	4966	HB3	HID	X	504	39.655	114.747	99.814	1.00	0.00	H
ATOM	4967	CG	HID	X	504	41.448	115.842	100.047	1.00	0.00	C
ATOM	4968	ND1	HID	X	504	42.436	114.958	100.298	1.00	0.00	N
ATOM	4969	HD1	HID	X	504	42.409	113.955	100.180	1.00	0.00	H
ATOM	4970	CE1	HID	X	504	43.575	115.616	100.420	1.00	0.00	C
ATOM	4971	HE1	HID	X	504	44.473	115.064	100.656	1.00	0.00	H
ATOM	4972	NE2	HID	X	504	43.433	116.945	100.384	1.00	0.00	N
ATOM	4973	CD2	HID	X	504	42.047	117.102	100.087	1.00	0.00	C
ATOM	4974	HD2	HID	X	504	41.565	118.050	99.908	1.00	0.00	H
ATOM	4975	C	HID	X	504	41.001	116.606	97.177	1.00	0.00	C
ATOM	4976	O	HID	X	504	40.431	117.601	96.922	1.00	0.00	O
ATOM	4977	N	ALA	X	505	42.355	116.548	96.996	1.00	0.00	N
ATOM	4978	H	ALA	X	505	42.742	115.715	97.416	1.00	0.00	H
ATOM	4979	CA	ALA	X	505	43.207	117.501	96.256	1.00	0.00	C
ATOM	4980	HA	ALA	X	505	42.827	118.502	96.456	1.00	0.00	H
ATOM	4981	CB	ALA	X	505	44.691	117.370	96.750	1.00	0.00	C
ATOM	4982	HB1	ALA	X	505	45.079	116.359	96.880	1.00	0.00	H
ATOM	4983	HB2	ALA	X	505	45.429	117.804	96.077	1.00	0.00	H
ATOM	4984	HB3	ALA	X	505	44.842	117.900	97.691	1.00	0.00	H
ATOM	4985	C	ALA	X	505	43.169	117.353	94.662	1.00	0.00	C
ATOM	4986	O	ALA	X	505	43.894	118.032	94.004	1.00	0.00	O
ATOM	4987	N	SER	X	506	42.493	116.479	93.975	1.00	0.00	N
ATOM	4988	H	SER	X	506	41.941	115.789	94.465	1.00	0.00	H
ATOM	4989	CA	SER	X	506	42.392	116.261	92.484	1.00	0.00	C
ATOM	4990	HA	SER	X	506	41.791	115.351	92.508	1.00	0.00	H
ATOM	4991	CB	SER	X	506	41.510	117.333	91.768	1.00	0.00	C
ATOM	4992	HB2	SER	X	506	40.502	117.305	92.185	1.00	0.00	H
ATOM	4993	HB3	SER	X	506	41.955	118.324	91.840	1.00	0.00	H
ATOM	4994	OG	SER	X	506	41.299	117.038	90.407	1.00	0.00	O
ATOM	4995	HG	SER	X	506	40.595	116.387	90.384	1.00	0.00	H
ATOM	4996	C	SER	X	506	43.747	115.899	91.780	1.00	0.00	C
ATOM	4997	O	SER	X	506	43.638	115.444	90.673	1.00	0.00	O
ATOM	4998	N	LEU	X	507	44.932	115.985	92.489	1.00	0.00	N
ATOM	4999	H	LEU	X	507	44.919	116.521	93.345	1.00	0.00	H
ATOM	5000	CA	LEU	X	507	46.218	115.462	91.958	1.00	0.00	C

ATOM	5001	HA	LEU	X	507	46.689	116.056	91.174	1.00	0.00	H
ATOM	5002	CB	LEU	X	507	47.222	115.495	93.093	1.00	0.00	C
ATOM	5003	HB2	LEU	X	507	46.896	115.048	94.033	1.00	0.00	H
ATOM	5004	HB3	LEU	X	507	48.133	114.987	92.778	1.00	0.00	H
ATOM	5005	CG	LEU	X	507	47.599	116.874	93.589	1.00	0.00	C
ATOM	5006	HG	LEU	X	507	46.784	117.539	93.872	1.00	0.00	H
ATOM	5007	CD1	LEU	X	507	48.435	116.656	94.853	1.00	0.00	C
ATOM	5008	HD11	LEU	X	507	47.821	116.166	95.609	1.00	0.00	H
ATOM	5009	HD12	LEU	X	507	49.337	116.070	94.671	1.00	0.00	H
ATOM	5010	HD13	LEU	X	507	48.819	117.576	95.292	1.00	0.00	H
ATOM	5011	CD2	LEU	X	507	48.407	117.641	92.539	1.00	0.00	C
ATOM	5012	HD21	LEU	X	507	49.308	117.124	92.208	1.00	0.00	H
ATOM	5013	HD22	LEU	X	507	47.749	117.806	91.687	1.00	0.00	H
ATOM	5014	HD23	LEU	X	507	48.638	118.642	92.902	1.00	0.00	H
ATOM	5015	C	LEU	X	507	46.112	114.010	91.402	1.00	0.00	C
ATOM	5016	O	LEU	X	507	46.613	113.778	90.304	1.00	0.00	O
ATOM	5017	N	PRO	X	508	45.401	113.072	92.090	1.00	0.00	N
ATOM	5018	CD	PRO	X	508	44.974	113.095	93.420	1.00	0.00	C
ATOM	5019	HD2	PRO	X	508	44.009	113.578	93.569	1.00	0.00	H
ATOM	5020	HD3	PRO	X	508	45.720	113.496	94.104	1.00	0.00	H
ATOM	5021	CG	PRO	X	508	44.916	111.649	93.777	1.00	0.00	C
ATOM	5022	HG2	PRO	X	508	44.334	111.396	94.664	1.00	0.00	H
ATOM	5023	HG3	PRO	X	508	45.953	111.473	94.066	1.00	0.00	H
ATOM	5024	CB	PRO	X	508	44.382	110.899	92.601	1.00	0.00	C
ATOM	5025	HB2	PRO	X	508	43.293	110.839	92.607	1.00	0.00	H
ATOM	5026	HB3	PRO	X	508	44.784	109.889	92.533	1.00	0.00	H
ATOM	5027	CA	PRO	X	508	45.009	111.794	91.518	1.00	0.00	C
ATOM	5028	HA	PRO	X	508	45.936	111.359	91.139	1.00	0.00	H
ATOM	5029	C	PRO	X	508	44.088	111.807	90.255	1.00	0.00	C
ATOM	5030	O	PRO	X	508	44.414	111.005	89.358	1.00	0.00	O
ATOM	5031	N	ASP	X	509	43.136	112.719	90.097	1.00	0.00	N
ATOM	5032	H	ASP	X	509	43.115	113.428	90.815	1.00	0.00	H
ATOM	5033	CA	ASP	X	509	42.282	112.872	88.927	1.00	0.00	C
ATOM	5034	HA	ASP	X	509	41.854	111.891	88.722	1.00	0.00	H
ATOM	5035	CB	ASP	X	509	41.059	113.822	89.154	1.00	0.00	C
ATOM	5036	HB2	ASP	X	509	41.423	114.817	88.895	1.00	0.00	H
ATOM	5037	HB3	ASP	X	509	40.302	113.571	88.411	1.00	0.00	H
ATOM	5038	CG	ASP	X	509	40.424	114.059	90.536	1.00	0.00	C
ATOM	5039	OD1	ASP	X	509	39.722	115.047	90.719	1.00	0.00	O
ATOM	5040	OD2	ASP	X	509	40.807	113.419	91.500	1.00	0.00	O
ATOM	5041	C	ASP	X	509	43.110	113.404	87.779	1.00	0.00	C
ATOM	5042	O	ASP	X	509	43.092	112.824	86.698	1.00	0.00	O
ATOM	5043	N	SER	X	510	43.869	114.456	87.965	1.00	0.00	N
ATOM	5044	H	SER	X	510	43.771	114.811	88.906	1.00	0.00	H
ATOM	5045	CA	SER	X	510	44.882	114.988	87.068	1.00	0.00	C
ATOM	5046	HA	SER	X	510	44.376	115.430	86.209	1.00	0.00	H
ATOM	5047	CB	SER	X	510	45.519	116.241	87.695	1.00	0.00	C
ATOM	5048	HB2	SER	X	510	44.726	116.989	87.722	1.00	0.00	H
ATOM	5049	HB3	SER	X	510	45.812	115.881	88.682	1.00	0.00	H
ATOM	5050	OG	SER	X	510	46.578	116.894	87.086	1.00	0.00	O
ATOM	5051	HG	SER	X	510	46.720	117.795	87.385	1.00	0.00	H
ATOM	5052	C	SER	X	510	45.877	114.005	86.542	1.00	0.00	C
ATOM	5053	O	SER	X	510	46.477	114.223	85.481	1.00	0.00	O
ATOM	5054	N	ALA	X	511	46.121	112.927	87.312	1.00	0.00	N
ATOM	5055	H	ALA	X	511	45.856	112.951	88.287	1.00	0.00	H
ATOM	5056	CA	ALA	X	511	47.028	111.822	86.973	1.00	0.00	C
ATOM	5057	HA	ALA	X	511	47.815	112.014	86.245	1.00	0.00	H
ATOM	5058	CB	ALA	X	511	47.662	111.313	88.300	1.00	0.00	C
ATOM	5059	HB1	ALA	X	511	48.050	112.204	88.792	1.00	0.00	H
ATOM	5060	HB2	ALA	X	511	46.867	110.826	88.863	1.00	0.00	H
ATOM	5061	HB3	ALA	X	511	48.424	110.552	88.127	1.00	0.00	H
ATOM	5062	C	ALA	X	511	46.220	110.638	86.298	1.00	0.00	C
ATOM	5063	O	ALA	X	511	46.866	109.639	85.998	1.00	0.00	O
ATOM	5064	N	SER	X	512	44.919	110.723	86.047	1.00	0.00	N
ATOM	5065	H	SER	X	512	44.469	111.526	86.461	1.00	0.00	H
ATOM	5066	CA	SER	X	512	44.157	109.933	85.107	1.00	0.00	C
ATOM	5067	HA	SER	X	512	44.751	109.091	84.753	1.00	0.00	H
ATOM	5068	CB	SER	X	512	42.712	109.585	85.619	1.00	0.00	C
ATOM	5069	HB2	SER	X	512	42.810	109.213	86.638	1.00	0.00	H
ATOM	5070	HB3	SER	X	512	42.081	110.471	85.552	1.00	0.00	H
ATOM	5071	OG	SER	X	512	42.074	108.573	84.837	1.00	0.00	O
ATOM	5072	HG	SER	X	512	41.772	109.054	84.062	1.00	0.00	H
ATOM	5073	C	SER	X	512	44.026	110.757	83.765	1.00	0.00	C
ATOM	5074	O	SER	X	512	44.284	110.250	82.709	1.00	0.00	O
ATOM	5075	N	GLN	X	513	43.671	112.044	83.981	1.00	0.00	N
ATOM	5076	H	GLN	X	513	43.477	112.368	84.917	1.00	0.00	H
ATOM	5077	CA	GLN	X	513	43.407	112.999	82.886	1.00	0.00	C
ATOM	5078	HA	GLN	X	513	42.688	112.598	82.172	1.00	0.00	H
ATOM	5079	CB	GLN	X	513	42.696	114.214	83.455	1.00	0.00	C
ATOM	5080	HB2	GLN	X	513	43.400	114.714	84.120	1.00	0.00	H
ATOM	5081	HB3	GLN	X	513	42.471	114.938	82.672	1.00	0.00	H
ATOM	5082	CG	GLN	X	513	41.317	113.835	83.990	1.00	0.00	C

ATOM	5083	HG2	GLN	X	513	40.702	113.684	83.104	1.00	0.00	H
ATOM	5084	HG3	GLN	X	513	41.457	112.859	84.455	1.00	0.00	H
ATOM	5085	CD	GLN	X	513	40.699	114.834	84.926	1.00	0.00	C
ATOM	5086	OE1	GLN	X	513	40.829	116.022	84.750	1.00	0.00	O
ATOM	5087	NE2	GLN	X	513	39.763	114.377	85.689	1.00	0.00	N
ATOM	5088	HE21	GLN	X	513	39.111	115.010	86.131	1.00	0.00	H
ATOM	5089	HE22	GLN	X	513	39.602	113.381	85.707	1.00	0.00	H
ATOM	5090	C	GLN	X	513	44.618	113.370	82.110	1.00	0.00	C
ATOM	5091	O	GLN	X	513	45.157	114.426	82.293	1.00	0.00	O
ATOM	5092	N	GLY	X	514	45.014	112.531	81.195	1.00	0.00	N
ATOM	5093	H	GLY	X	514	44.484	111.672	81.150	1.00	0.00	H
ATOM	5094	CA	GLY	X	514	46.214	112.610	80.254	1.00	0.00	C
ATOM	5095	HA2	GLY	X	514	45.807	112.241	79.311	1.00	0.00	H
ATOM	5096	HA3	GLY	X	514	46.616	113.621	80.197	1.00	0.00	H
ATOM	5097	C	GLY	X	514	47.413	111.775	80.666	1.00	0.00	C
ATOM	5098	O	GLY	X	514	48.492	111.968	80.109	1.00	0.00	O
ATOM	5099	N	LEU	X	515	47.313	110.881	81.708	1.00	0.00	N
ATOM	5100	H	LEU	X	515	46.388	110.784	82.099	1.00	0.00	H
ATOM	5101	CA	LEU	X	515	48.389	110.248	82.388	1.00	0.00	C
ATOM	5102	HA	LEU	X	515	48.007	109.713	83.257	1.00	0.00	H
ATOM	5103	CB	LEU	X	515	48.891	109.030	81.605	1.00	0.00	C
ATOM	5104	HB2	LEU	X	515	49.410	109.421	80.730	1.00	0.00	H
ATOM	5105	HB3	LEU	X	515	49.635	108.506	82.204	1.00	0.00	H
ATOM	5106	CG	LEU	X	515	47.843	108.053	81.066	1.00	0.00	C
ATOM	5107	HG	LEU	X	515	47.146	108.673	80.501	1.00	0.00	H
ATOM	5108	CD1	LEU	X	515	48.637	107.014	80.219	1.00	0.00	C
ATOM	5109	HD11	LEU	X	515	49.316	106.523	80.915	1.00	0.00	H
ATOM	5110	HD12	LEU	X	515	48.044	106.294	79.655	1.00	0.00	H
ATOM	5111	HD13	LEU	X	515	49.270	107.536	79.501	1.00	0.00	H
ATOM	5112	CD2	LEU	X	515	47.254	107.308	82.244	1.00	0.00	C
ATOM	5113	HD21	LEU	X	515	46.711	106.432	81.893	1.00	0.00	H
ATOM	5114	HD22	LEU	X	515	48.122	106.982	82.817	1.00	0.00	H
ATOM	5115	HD23	LEU	X	515	46.630	107.941	82.875	1.00	0.00	H
ATOM	5116	C	LEU	X	515	49.547	111.125	83.003	1.00	0.00	C
ATOM	5117	O	LEU	X	515	50.709	110.856	82.770	1.00	0.00	O
ATOM	5118	N	GLY	X	516	49.141	112.201	83.653	1.00	0.00	N
ATOM	5119	H	GLY	X	516	48.138	112.311	83.686	1.00	0.00	H
ATOM	5120	CA	GLY	X	516	50.141	113.003	84.376	1.00	0.00	C
ATOM	5121	HA2	GLY	X	516	50.796	113.294	83.553	1.00	0.00	H
ATOM	5122	HA3	GLY	X	516	49.652	113.911	84.726	1.00	0.00	H
ATOM	5123	C	GLY	X	516	50.788	112.249	85.575	1.00	0.00	C
ATOM	5124	O	GLY	X	516	50.138	111.360	86.157	1.00	0.00	O
ATOM	5125	N	PRO	X	517	52.028	112.573	85.984	1.00	0.00	N
ATOM	5126	CD	PRO	X	517	52.800	113.632	85.374	1.00	0.00	C
ATOM	5127	HD2	PRO	X	517	52.263	114.573	85.261	1.00	0.00	H
ATOM	5128	HD3	PRO	X	517	53.201	113.302	84.415	1.00	0.00	H
ATOM	5129	CG	PRO	X	517	53.846	113.942	86.484	1.00	0.00	C
ATOM	5130	HG2	PRO	X	517	53.368	114.653	87.157	1.00	0.00	H
ATOM	5131	HG3	PRO	X	517	54.777	114.283	86.031	1.00	0.00	H
ATOM	5132	CB	PRO	X	517	54.048	112.577	87.196	1.00	0.00	C
ATOM	5133	HB2	PRO	X	517	54.526	112.760	88.158	1.00	0.00	H
ATOM	5134	HB3	PRO	X	517	54.793	112.096	86.561	1.00	0.00	H
ATOM	5135	CA	PRO	X	517	52.603	112.064	87.214	1.00	0.00	C
ATOM	5136	HA	PRO	X	517	52.578	110.975	87.249	1.00	0.00	H
ATOM	5137	C	PRO	X	517	52.028	112.676	88.523	1.00	0.00	C
ATOM	5138	O	PRO	X	517	52.566	112.379	89.549	1.00	0.00	O
ATOM	5139	N	SER	X	518	51.091	113.608	88.388	1.00	0.00	N
ATOM	5140	H	SER	X	518	50.565	113.531	87.529	1.00	0.00	H
ATOM	5141	CA	SER	X	518	50.636	114.630	89.295	1.00	0.00	C
ATOM	5142	HA	SER	X	518	51.430	115.375	89.352	1.00	0.00	H
ATOM	5143	CB	SER	X	518	49.266	115.211	88.868	1.00	0.00	C
ATOM	5144	HB2	SER	X	518	48.562	114.382	88.782	1.00	0.00	H
ATOM	5145	HB3	SER	X	518	48.944	115.999	89.547	1.00	0.00	H
ATOM	5146	OG	SER	X	518	49.430	115.702	87.562	1.00	0.00	O
ATOM	5147	HG	SER	X	518	48.592	116.016	87.216	1.00	0.00	H
ATOM	5148	C	SER	X	518	50.452	114.161	90.761	1.00	0.00	C
ATOM	5149	O	SER	X	518	50.767	114.945	91.679	1.00	0.00	O
ATOM	5150	N	LEU	X	519	49.991	112.924	90.975	1.00	0.00	N
ATOM	5151	H	LEU	X	519	49.620	112.427	90.179	1.00	0.00	H
ATOM	5152	CA	LEU	X	519	49.637	112.408	92.298	1.00	0.00	C
ATOM	5153	HA	LEU	X	519	49.042	113.178	92.788	1.00	0.00	H
ATOM	5154	CB	LEU	X	519	48.851	111.127	92.210	1.00	0.00	C
ATOM	5155	HB2	LEU	X	519	48.523	111.001	93.241	1.00	0.00	H
ATOM	5156	HB3	LEU	X	519	48.019	111.272	91.520	1.00	0.00	H
ATOM	5157	CG	LEU	X	519	49.592	109.772	91.957	1.00	0.00	C
ATOM	5158	HG	LEU	X	519	50.431	109.607	92.632	1.00	0.00	H
ATOM	5159	CD1	LEU	X	519	48.592	108.604	92.180	1.00	0.00	C
ATOM	5160	HD11	LEU	X	519	49.132	107.682	92.395	1.00	0.00	H
ATOM	5161	HD12	LEU	X	519	47.931	108.848	93.012	1.00	0.00	H
ATOM	5162	HD13	LEU	X	519	48.026	108.369	91.279	1.00	0.00	H
ATOM	5163	CD2	LEU	X	519	50.276	109.843	90.590	1.00	0.00	C
ATOM	5164	HD21	LEU	X	519	49.581	110.323	89.902	1.00	0.00	H

ATOM	5165	HD22	LEU	X	519	51.197	110.428	90.579	1.00	0.00	H
ATOM	5166	HD23	LEU	X	519	50.477	108.810	90.303	1.00	0.00	H
ATOM	5167	C	LEU	X	519	50.937	112.188	93.124	1.00	0.00	C
ATOM	5168	O	LEU	X	519	50.970	112.063	94.366	1.00	0.00	O
ATOM	5169	N	LEU	X	520	52.058	112.047	92.436	1.00	0.00	N
ATOM	5170	H	LEU	X	520	51.996	112.204	91.441	1.00	0.00	H
ATOM	5171	CA	LEU	X	520	53.403	111.866	93.043	1.00	0.00	C
ATOM	5172	HA	LEU	X	520	53.297	111.706	94.116	1.00	0.00	H
ATOM	5173	CB	LEU	X	520	54.182	110.659	92.495	1.00	0.00	C
ATOM	5174	HB2	LEU	X	520	54.289	110.734	91.412	1.00	0.00	H
ATOM	5175	HB3	LEU	X	520	55.226	110.626	92.808	1.00	0.00	H
ATOM	5176	CG	LEU	X	520	53.525	109.325	92.849	1.00	0.00	C
ATOM	5177	HG	LEU	X	520	52.511	109.321	92.450	1.00	0.00	H
ATOM	5178	CD1	LEU	X	520	54.349	108.160	92.259	1.00	0.00	C
ATOM	5179	HD11	LEU	X	520	55.354	108.109	92.678	1.00	0.00	H
ATOM	5180	HD12	LEU	X	520	53.901	107.199	92.512	1.00	0.00	H
ATOM	5181	HD13	LEU	X	520	54.405	108.369	91.191	1.00	0.00	H
ATOM	5182	CD2	LEU	X	520	53.522	109.060	94.348	1.00	0.00	C
ATOM	5183	HD21	LEU	X	520	53.293	108.016	94.557	1.00	0.00	H
ATOM	5184	HD22	LEU	X	520	54.373	109.494	94.874	1.00	0.00	H
ATOM	5185	HD23	LEU	X	520	52.648	109.586	94.735	1.00	0.00	H
ATOM	5186	C	LEU	X	520	54.175	113.195	92.848	1.00	0.00	C
ATOM	5187	O	LEU	X	520	54.843	113.671	93.783	1.00	0.00	O
ATOM	5188	N	GLN	X	521	54.085	113.842	91.735	1.00	0.00	N
ATOM	5189	H	GLN	X	521	53.542	113.396	91.010	1.00	0.00	H
ATOM	5190	CA	GLN	X	521	54.796	115.100	91.476	1.00	0.00	C
ATOM	5191	HA	GLN	X	521	55.795	115.041	91.910	1.00	0.00	H
ATOM	5192	CB	GLN	X	521	54.897	115.327	89.958	1.00	0.00	C
ATOM	5193	HB2	GLN	X	521	55.492	114.494	89.580	1.00	0.00	H
ATOM	5194	HB3	GLN	X	521	53.889	115.275	89.548	1.00	0.00	H
ATOM	5195	CG	GLN	X	521	55.490	116.686	89.560	1.00	0.00	C
ATOM	5196	HG2	GLN	X	521	56.354	116.886	90.196	1.00	0.00	H
ATOM	5197	HG3	GLN	X	521	55.878	116.590	88.546	1.00	0.00	H
ATOM	5198	CD	GLN	X	521	54.527	117.897	89.406	1.00	0.00	C
ATOM	5199	OE1	GLN	X	521	53.346	117.799	89.495	1.00	0.00	O
ATOM	5200	NE2	GLN	X	521	55.083	119.044	89.383	1.00	0.00	N
ATOM	5201	HE21	GLN	X	521	54.470	119.842	89.298	1.00	0.00	H
ATOM	5202	HE22	GLN	X	521	56.045	119.068	89.076	1.00	0.00	H
ATOM	5203	C	GLN	X	521	54.358	116.304	92.331	1.00	0.00	C
ATOM	5204	O	GLN	X	521	55.184	117.110	92.771	1.00	0.00	O
ATOM	5205	N	GLY	X	522	53.041	116.497	92.581	1.00	0.00	N
ATOM	5206	H	GLY	X	522	52.407	115.767	92.287	1.00	0.00	H
ATOM	5207	CA	GLY	X	522	52.471	117.546	93.462	1.00	0.00	C
ATOM	5208	HA2	GLY	X	522	52.984	118.469	93.194	1.00	0.00	H
ATOM	5209	HA3	GLY	X	522	51.431	117.585	93.139	1.00	0.00	H
ATOM	5210	C	GLY	X	522	52.577	117.316	94.917	1.00	0.00	C
ATOM	5211	O	GLY	X	522	52.384	118.267	95.605	1.00	0.00	O
ATOM	5212	N	ARG	X	523	53.059	116.095	95.359	1.00	0.00	N
ATOM	5213	H	ARG	X	523	53.179	115.355	94.683	1.00	0.00	H
ATOM	5214	CA	ARG	X	523	53.633	115.842	96.634	1.00	0.00	C
ATOM	5215	HA	ARG	X	523	53.644	116.749	97.237	1.00	0.00	H
ATOM	5216	CB	ARG	X	523	52.821	114.845	97.387	1.00	0.00	C
ATOM	5217	HB2	ARG	X	523	52.774	113.926	96.801	1.00	0.00	H
ATOM	5218	HB3	ARG	X	523	53.426	114.721	98.284	1.00	0.00	H
ATOM	5219	CG	ARG	X	523	51.449	115.346	97.920	1.00	0.00	C
ATOM	5220	HG2	ARG	X	523	50.893	115.914	97.175	1.00	0.00	H
ATOM	5221	HG3	ARG	X	523	50.951	114.504	98.401	1.00	0.00	H
ATOM	5222	CD	ARG	X	523	51.629	116.316	99.057	1.00	0.00	C
ATOM	5223	HD2	ARG	X	523	52.214	115.868	99.859	1.00	0.00	H
ATOM	5224	HD3	ARG	X	523	52.124	117.193	98.639	1.00	0.00	H
ATOM	5225	NE	ARG	X	523	50.354	116.752	99.762	1.00	0.00	N
ATOM	5226	HE	ARG	X	523	49.470	116.627	99.288	1.00	0.00	H
ATOM	5227	CZ	ARG	X	523	50.223	117.468	100.772	1.00	0.00	C
ATOM	5228	NH1	ARG	X	523	51.301	118.034	101.305	1.00	0.00	N
ATOM	5229	HH11	ARG	X	523	52.191	117.947	100.835	1.00	0.00	H
ATOM	5230	HH12	ARG	X	523	51.085	118.739	101.995	1.00	0.00	H
ATOM	5231	NH2	ARG	X	523	49.043	117.867	101.283	1.00	0.00	N
ATOM	5232	HH21	ARG	X	523	48.167	117.434	101.025	1.00	0.00	H
ATOM	5233	HH22	ARG	X	523	49.128	118.308	102.187	1.00	0.00	H
ATOM	5234	C	ARG	X	523	55.149	115.657	96.655	1.00	0.00	C
ATOM	5235	O	ARG	X	523	55.611	115.419	97.787	1.00	0.00	O
ATOM	5236	N	LEU	X	524	55.959	115.814	95.577	1.00	0.00	N
ATOM	5237	H	LEU	X	524	55.475	115.934	94.698	1.00	0.00	H
ATOM	5238	CA	LEU	X	524	57.403	115.521	95.621	1.00	0.00	C
ATOM	5239	HA	LEU	X	524	57.446	114.448	95.808	1.00	0.00	H
ATOM	5240	CB	LEU	X	524	58.033	115.708	94.272	1.00	0.00	C
ATOM	5241	HB2	LEU	X	524	57.263	115.522	93.524	1.00	0.00	H
ATOM	5242	HB3	LEU	X	524	58.270	116.767	94.171	1.00	0.00	H
ATOM	5243	CG	LEU	X	524	59.172	114.701	93.949	1.00	0.00	C
ATOM	5244	HG	LEU	X	524	58.808	113.697	94.168	1.00	0.00	H
ATOM	5245	CD1	LEU	X	524	59.455	114.701	92.449	1.00	0.00	C
ATOM	5246	HD11	LEU	X	524	58.552	114.674	91.840	1.00	0.00	H

ATOM	5247	HD12	LEU	X	524	59.931	115.650	92.202	1.00	0.00	H
ATOM	5248	HD13	LEU	X	524	60.029	113.810	92.193	1.00	0.00	H
ATOM	5249	CD2	LEU	X	524	60.501	115.010	94.674	1.00	0.00	C
ATOM	5250	HD21	LEU	X	524	60.416	114.640	95.694	1.00	0.00	H
ATOM	5251	HD22	LEU	X	524	61.329	114.384	94.344	1.00	0.00	H
ATOM	5252	HD23	LEU	X	524	60.653	116.090	94.689	1.00	0.00	H
ATOM	5253	C	LEU	X	524	58.117	116.135	96.833	1.00	0.00	C
ATOM	5254	O	LEU	X	524	58.721	115.448	97.553	1.00	0.00	O
ATOM	5255	N	PRO	X	525	58.079	117.457	97.029	1.00	0.00	N
ATOM	5256	CD	PRO	X	525	57.429	118.384	96.172	1.00	0.00	C
ATOM	5257	HD2	PRO	X	525	56.358	118.192	96.237	1.00	0.00	H
ATOM	5258	HD3	PRO	X	525	57.785	118.330	95.143	1.00	0.00	H
ATOM	5259	CG	PRO	X	525	57.758	119.822	96.722	1.00	0.00	C
ATOM	5260	HG2	PRO	X	525	56.830	120.387	96.641	1.00	0.00	H
ATOM	5261	HG3	PRO	X	525	58.542	120.340	96.168	1.00	0.00	H
ATOM	5262	CB	PRO	X	525	58.135	119.551	98.188	1.00	0.00	C
ATOM	5263	HB2	PRO	X	525	57.237	119.711	98.784	1.00	0.00	H
ATOM	5264	HB3	PRO	X	525	58.880	120.286	98.497	1.00	0.00	H
ATOM	5265	CA	PRO	X	525	58.637	118.121	98.207	1.00	0.00	C
ATOM	5266	HA	PRO	X	525	59.725	118.140	98.156	1.00	0.00	H
ATOM	5267	C	PRO	X	525	58.198	117.565	99.579	1.00	0.00	C
ATOM	5268	O	PRO	X	525	59.072	117.455	100.432	1.00	0.00	O
ATOM	5269	N	THR	X	526	56.947	117.161	99.731	1.00	0.00	N
ATOM	5270	H	THR	X	526	56.331	117.275	98.937	1.00	0.00	H
ATOM	5271	CA	THR	X	526	56.462	116.531	100.965	1.00	0.00	C
ATOM	5272	HA	THR	X	526	56.791	117.141	101.806	1.00	0.00	H
ATOM	5273	CB	THR	X	526	54.945	116.428	100.936	1.00	0.00	C
ATOM	5274	HB	THR	X	526	54.701	115.927	99.999	1.00	0.00	H
ATOM	5275	CG2	THR	X	526	54.232	115.517	101.983	1.00	0.00	C
ATOM	5276	HG21	THR	X	526	54.221	114.475	101.659	1.00	0.00	H
ATOM	5277	HG22	THR	X	526	54.652	115.653	102.979	1.00	0.00	H
ATOM	5278	HG23	THR	X	526	53.169	115.743	102.055	1.00	0.00	H
ATOM	5279	OG1	THR	X	526	54.226	117.662	100.963	1.00	0.00	O
ATOM	5280	HG1	THR	X	526	54.373	118.111	101.800	1.00	0.00	H
ATOM	5281	C	THR	X	526	57.004	115.127	101.088	1.00	0.00	C
ATOM	5282	O	THR	X	526	57.215	114.698	102.222	1.00	0.00	O
ATOM	5283	N	LEU	X	527	57.098	114.364	99.950	1.00	0.00	N
ATOM	5284	H	LEU	X	527	56.858	114.803	99.074	1.00	0.00	H
ATOM	5285	CA	LEU	X	527	57.497	112.975	100.021	1.00	0.00	C
ATOM	5286	HA	LEU	X	527	56.834	112.469	100.723	1.00	0.00	H
ATOM	5287	CB	LEU	X	527	57.231	112.281	98.647	1.00	0.00	C
ATOM	5288	HB2	LEU	X	527	57.620	112.880	97.823	1.00	0.00	H
ATOM	5289	HB3	LEU	X	527	57.737	111.317	98.596	1.00	0.00	H
ATOM	5290	CG	LEU	X	527	55.703	112.077	98.342	1.00	0.00	C
ATOM	5291	HG	LEU	X	527	55.145	112.947	98.686	1.00	0.00	H
ATOM	5292	CD1	LEU	X	527	55.489	111.908	96.819	1.00	0.00	C
ATOM	5293	HD11	LEU	X	527	54.452	112.065	96.520	1.00	0.00	H
ATOM	5294	HD12	LEU	X	527	56.218	112.410	96.183	1.00	0.00	H
ATOM	5295	HD13	LEU	X	527	55.642	110.873	96.511	1.00	0.00	H
ATOM	5296	CD2	LEU	X	527	55.079	110.828	99.041	1.00	0.00	C
ATOM	5297	HD21	LEU	X	527	55.079	110.994	100.118	1.00	0.00	H
ATOM	5298	HD22	LEU	X	527	54.038	110.804	98.719	1.00	0.00	H
ATOM	5299	HD23	LEU	X	527	55.609	109.926	98.734	1.00	0.00	H
ATOM	5300	C	LEU	X	527	58.944	112.888	100.475	1.00	0.00	C
ATOM	5301	O	LEU	X	527	59.161	112.278	101.573	1.00	0.00	O
ATOM	5302	N	LEU	X	528	59.809	113.658	99.880	1.00	0.00	N
ATOM	5303	H	LEU	X	528	59.583	114.068	98.985	1.00	0.00	H
ATOM	5304	CA	LEU	X	528	61.134	113.894	100.509	1.00	0.00	C
ATOM	5305	HA	LEU	X	528	61.570	112.898	100.589	1.00	0.00	H
ATOM	5306	CB	LEU	X	528	62.064	114.846	99.649	1.00	0.00	C
ATOM	5307	HB2	LEU	X	528	61.523	115.788	99.565	1.00	0.00	H
ATOM	5308	HB3	LEU	X	528	63.003	115.055	100.160	1.00	0.00	H
ATOM	5309	CG	LEU	X	528	62.271	114.470	98.239	1.00	0.00	C
ATOM	5310	HG	LEU	X	528	61.325	114.203	97.768	1.00	0.00	H
ATOM	5311	CD1	LEU	X	528	62.785	115.595	97.315	1.00	0.00	C
ATOM	5312	HD11	LEU	X	528	63.262	115.224	96.408	1.00	0.00	H
ATOM	5313	HD12	LEU	X	528	61.960	116.172	96.900	1.00	0.00	H
ATOM	5314	HD13	LEU	X	528	63.560	116.257	97.705	1.00	0.00	H
ATOM	5315	CD2	LEU	X	528	63.262	113.283	98.156	1.00	0.00	C
ATOM	5316	HD21	LEU	X	528	63.603	113.148	97.129	1.00	0.00	H
ATOM	5317	HD22	LEU	X	528	64.144	113.549	98.741	1.00	0.00	H
ATOM	5318	HD23	LEU	X	528	62.752	112.359	98.424	1.00	0.00	H
ATOM	5319	C	LEU	X	528	61.201	114.495	101.916	1.00	0.00	C
ATOM	5320	O	LEU	X	528	62.142	114.067	102.572	1.00	0.00	O
ATOM	5321	N	ARG	X	529	60.315	115.405	102.343	1.00	0.00	N
ATOM	5322	H	ARG	X	529	59.696	115.829	101.667	1.00	0.00	H
ATOM	5323	CA	ARG	X	529	60.335	115.876	103.746	1.00	0.00	C
ATOM	5324	HA	ARG	X	529	61.337	116.241	103.974	1.00	0.00	H
ATOM	5325	CB	ARG	X	529	59.410	117.087	103.940	1.00	0.00	C
ATOM	5326	HB2	ARG	X	529	58.425	116.978	103.486	1.00	0.00	H
ATOM	5327	HB3	ARG	X	529	59.114	117.058	104.989	1.00	0.00	H
ATOM	5328	CG	ARG	X	529	60.059	118.467	103.625	1.00	0.00	C

ATOM	5329	HG2	ARG	X	529	61.063	118.534	104.045	1.00	0.00	H
ATOM	5330	HG3	ARG	X	529	60.317	118.603	102.575	1.00	0.00	H
ATOM	5331	CD	ARG	X	529	59.261	119.575	104.235	1.00	0.00	C
ATOM	5332	HD2	ARG	X	529	59.159	119.315	105.290	1.00	0.00	H
ATOM	5333	HD3	ARG	X	529	59.923	120.439	104.180	1.00	0.00	H
ATOM	5334	NE	ARG	X	529	57.999	119.922	103.602	1.00	0.00	N
ATOM	5335	HE	ARG	X	529	57.139	119.745	104.100	1.00	0.00	H
ATOM	5336	CZ	ARG	X	529	57.797	120.583	102.473	1.00	0.00	C
ATOM	5337	NH1	ARG	X	529	58.862	121.017	101.772	1.00	0.00	N
ATOM	5338	HH11	ARG	X	529	59.827	120.977	102.068	1.00	0.00	H
ATOM	5339	HH12	ARG	X	529	58.752	121.572	100.936	1.00	0.00	H
ATOM	5340	NH2	ARG	X	529	56.593	120.951	102.039	1.00	0.00	N
ATOM	5341	HH21	ARG	X	529	55.763	120.830	102.602	1.00	0.00	H
ATOM	5342	HH22	ARG	X	529	56.571	121.465	101.169	1.00	0.00	H
ATOM	5343	C	ARG	X	529	60.082	114.706	104.727	1.00	0.00	C
ATOM	5344	O	ARG	X	529	60.800	114.511	105.702	1.00	0.00	O
ATOM	5345	N	LEU	X	530	58.947	113.956	104.569	1.00	0.00	N
ATOM	5346	H	LEU	X	530	58.475	113.981	103.678	1.00	0.00	H
ATOM	5347	CA	LEU	X	530	58.474	112.955	105.451	1.00	0.00	C
ATOM	5348	HA	LEU	X	530	58.561	113.373	106.453	1.00	0.00	H
ATOM	5349	CB	LEU	X	530	56.956	112.575	105.104	1.00	0.00	C
ATOM	5350	HB2	LEU	X	530	57.017	112.384	104.033	1.00	0.00	H
ATOM	5351	HB3	LEU	X	530	56.569	111.680	105.588	1.00	0.00	H
ATOM	5352	CG	LEU	X	530	55.830	113.627	105.151	1.00	0.00	C
ATOM	5353	HG	LEU	X	530	56.097	114.548	104.634	1.00	0.00	H
ATOM	5354	CD1	LEU	X	530	54.547	112.994	104.563	1.00	0.00	C
ATOM	5355	HD11	LEU	X	530	54.686	112.727	103.515	1.00	0.00	H
ATOM	5356	HD12	LEU	X	530	54.424	112.084	105.148	1.00	0.00	H
ATOM	5357	HD13	LEU	X	530	53.700	113.606	104.872	1.00	0.00	H
ATOM	5358	CD2	LEU	X	530	55.514	114.072	106.591	1.00	0.00	C
ATOM	5359	HD21	LEU	X	530	56.458	114.438	106.991	1.00	0.00	H
ATOM	5360	HD22	LEU	X	530	54.905	114.974	106.547	1.00	0.00	H
ATOM	5361	HD23	LEU	X	530	55.107	113.271	107.209	1.00	0.00	H
ATOM	5362	C	LEU	X	530	59.417	111.718	105.425	1.00	0.00	C
ATOM	5363	O	LEU	X	530	59.660	111.008	106.381	1.00	0.00	O
ATOM	5364	N	GLY	X	531	60.060	111.532	104.226	1.00	0.00	N
ATOM	5365	H	GLY	X	531	59.756	112.114	103.460	1.00	0.00	H
ATOM	5366	CA	GLY	X	531	61.098	110.512	103.989	1.00	0.00	C
ATOM	5367	HA2	GLY	X	531	60.743	109.622	104.509	1.00	0.00	H
ATOM	5368	HA3	GLY	X	531	61.037	110.279	102.925	1.00	0.00	H
ATOM	5369	C	GLY	X	531	62.475	110.789	104.543	1.00	0.00	C
ATOM	5370	O	GLY	X	531	63.148	109.826	104.963	1.00	0.00	O
ATOM	5371	N	GLN	X	532	62.809	112.056	104.649	1.00	0.00	N
ATOM	5372	H	GLN	X	532	62.178	112.742	104.261	1.00	0.00	H
ATOM	5373	CA	GLN	X	532	64.065	112.421	105.314	1.00	0.00	C
ATOM	5374	HA	GLN	X	532	64.773	111.669	104.966	1.00	0.00	H
ATOM	5375	CB	GLN	X	532	64.457	113.890	104.992	1.00	0.00	C
ATOM	5376	HB2	GLN	X	532	64.419	113.993	103.907	1.00	0.00	H
ATOM	5377	HB3	GLN	X	532	63.695	114.580	105.356	1.00	0.00	H
ATOM	5378	CG	GLN	X	532	65.829	114.286	105.567	1.00	0.00	C
ATOM	5379	HG2	GLN	X	532	65.997	113.954	106.592	1.00	0.00	H
ATOM	5380	HG3	GLN	X	532	66.608	113.846	104.943	1.00	0.00	H
ATOM	5381	CD	GLN	X	532	66.200	115.728	105.396	1.00	0.00	C
ATOM	5382	OE1	GLN	X	532	66.518	116.209	104.320	1.00	0.00	O
ATOM	5383	NE2	GLN	X	532	66.112	116.485	106.445	1.00	0.00	N
ATOM	5384	HE21	GLN	X	532	66.245	117.472	106.278	1.00	0.00	H
ATOM	5385	HE22	GLN	X	532	65.823	116.024	107.297	1.00	0.00	H
ATOM	5386	C	GLN	X	532	63.797	112.250	106.805	1.00	0.00	C
ATOM	5387	O	GLN	X	532	64.679	111.728	107.528	1.00	0.00	O
ATOM	5388	N	LEU	X	533	62.574	112.637	107.342	1.00	0.00	N
ATOM	5389	H	LEU	X	533	61.892	112.895	106.643	1.00	0.00	H
ATOM	5390	CA	LEU	X	533	62.191	112.408	108.755	1.00	0.00	C
ATOM	5391	HA	LEU	X	533	62.904	112.986	109.344	1.00	0.00	H
ATOM	5392	CB	LEU	X	533	60.847	113.077	108.935	1.00	0.00	C
ATOM	5393	HB2	LEU	X	533	61.097	114.135	108.852	1.00	0.00	H
ATOM	5394	HB3	LEU	X	533	60.141	112.688	108.202	1.00	0.00	H
ATOM	5395	CG	LEU	X	533	60.153	112.837	110.349	1.00	0.00	C
ATOM	5396	HG	LEU	X	533	60.023	111.778	110.572	1.00	0.00	H
ATOM	5397	CD1	LEU	X	533	60.970	113.477	111.405	1.00	0.00	C
ATOM	5398	HD11	LEU	X	533	60.502	113.101	112.314	1.00	0.00	H
ATOM	5399	HD12	LEU	X	533	61.991	113.104	111.333	1.00	0.00	H
ATOM	5400	HD13	LEU	X	533	60.878	114.563	111.386	1.00	0.00	H
ATOM	5401	CD2	LEU	X	533	58.729	113.523	110.317	1.00	0.00	C
ATOM	5402	HD21	LEU	X	533	58.302	113.700	111.305	1.00	0.00	H
ATOM	5403	HD22	LEU	X	533	58.674	114.443	109.736	1.00	0.00	H
ATOM	5404	HD23	LEU	X	533	58.061	112.814	109.828	1.00	0.00	H
ATOM	5405	C	LEU	X	533	62.252	110.881	109.077	1.00	0.00	C
ATOM	5406	O	LEU	X	533	62.780	110.440	110.066	1.00	0.00	O
ATOM	5407	N	ALA	X	534	61.652	110.079	108.184	1.00	0.00	N
ATOM	5408	H	ALA	X	534	61.141	110.590	107.480	1.00	0.00	H
ATOM	5409	CA	ALA	X	534	61.592	108.665	108.125	1.00	0.00	C
ATOM	5410	HA	ALA	X	534	60.958	108.435	108.982	1.00	0.00	H

ATOM	5411	CB	ALA	X	534	61.071	108.080	106.831	1.00	0.00	C
ATOM	5412	HB1	ALA	X	534	61.620	108.195	105.896	1.00	0.00	H
ATOM	5413	HB2	ALA	X	534	60.948	107.015	107.031	1.00	0.00	H
ATOM	5414	HB3	ALA	X	534	60.060	108.450	106.659	1.00	0.00	H
ATOM	5415	C	ALA	X	534	62.981	108.182	108.341	1.00	0.00	C
ATOM	5416	O	ALA	X	534	63.186	107.419	109.268	1.00	0.00	O
ATOM	5417	N	LEU	X	535	63.896	108.450	107.423	1.00	0.00	N
ATOM	5418	H	LEU	X	535	63.630	109.077	106.678	1.00	0.00	H
ATOM	5419	CA	LEU	X	535	65.279	107.910	107.497	1.00	0.00	C
ATOM	5420	HA	LEU	X	535	65.098	106.841	107.616	1.00	0.00	H
ATOM	5421	CB	LEU	X	535	65.970	108.070	106.098	1.00	0.00	C
ATOM	5422	HB2	LEU	X	535	65.328	107.476	105.446	1.00	0.00	H
ATOM	5423	HB3	LEU	X	535	65.972	109.111	105.776	1.00	0.00	H
ATOM	5424	CG	LEU	X	535	67.403	107.604	105.902	1.00	0.00	C
ATOM	5425	HG	LEU	X	535	68.009	108.012	106.713	1.00	0.00	H
ATOM	5426	CD1	LEU	X	535	67.663	106.107	105.937	1.00	0.00	C
ATOM	5427	HD11	LEU	X	535	68.675	105.787	105.689	1.00	0.00	H
ATOM	5428	HD12	LEU	X	535	67.532	105.788	106.971	1.00	0.00	H
ATOM	5429	HD13	LEU	X	535	66.889	105.576	105.385	1.00	0.00	H
ATOM	5430	CD2	LEU	X	535	67.890	108.215	104.631	1.00	0.00	C
ATOM	5431	HD21	LEU	X	535	67.633	109.267	104.506	1.00	0.00	H
ATOM	5432	HD22	LEU	X	535	68.969	108.354	104.567	1.00	0.00	H
ATOM	5433	HD23	LEU	X	535	67.553	107.602	103.796	1.00	0.00	H
ATOM	5434	C	LEU	X	535	66.032	108.414	108.736	1.00	0.00	C
ATOM	5435	O	LEU	X	535	66.687	107.604	109.363	1.00	0.00	O
ATOM	5436	N	TRP	X	536	65.774	109.686	109.196	1.00	0.00	N
ATOM	5437	H	TRP	X	536	65.184	110.293	108.643	1.00	0.00	H
ATOM	5438	CA	TRP	X	536	66.342	110.138	110.436	1.00	0.00	C
ATOM	5439	HA	TRP	X	536	67.424	110.106	110.303	1.00	0.00	H
ATOM	5440	CB	TRP	X	536	65.811	111.592	110.668	1.00	0.00	C
ATOM	5441	HB2	TRP	X	536	66.136	112.259	109.870	1.00	0.00	H
ATOM	5442	HB3	TRP	X	536	64.748	111.619	110.908	1.00	0.00	H
ATOM	5443	CG	TRP	X	536	66.393	112.144	111.900	1.00	0.00	C
ATOM	5444	CD1	TRP	X	536	67.631	112.705	111.958	1.00	0.00	C
ATOM	5445	HD1	TRP	X	536	68.267	112.803	111.090	1.00	0.00	H
ATOM	5446	NE1	TRP	X	536	67.902	113.193	113.180	1.00	0.00	N
ATOM	5447	HE1	TRP	X	536	68.755	113.648	113.469	1.00	0.00	H
ATOM	5448	CE2	TRP	X	536	66.780	112.939	114.025	1.00	0.00	C
ATOM	5449	CZ2	TRP	X	536	66.564	113.089	115.388	1.00	0.00	C
ATOM	5450	HZ2	TRP	X	536	67.306	113.649	115.935	1.00	0.00	H
ATOM	5451	CH2	TRP	X	536	65.409	112.620	116.021	1.00	0.00	C
ATOM	5452	HH2	TRP	X	536	65.134	112.824	117.046	1.00	0.00	H
ATOM	5453	CZ3	TRP	X	536	64.495	111.894	115.202	1.00	0.00	C
ATOM	5454	HZ3	TRP	X	536	63.553	111.568	115.616	1.00	0.00	H
ATOM	5455	CE3	TRP	X	536	64.710	111.594	113.830	1.00	0.00	C
ATOM	5456	HE3	TRP	X	536	63.975	111.104	113.211	1.00	0.00	H
ATOM	5457	CD2	TRP	X	536	65.891	112.176	113.219	1.00	0.00	C
ATOM	5458	C	TRP	X	536	65.809	109.317	111.632	1.00	0.00	C
ATOM	5459	O	TRP	X	536	66.604	108.839	112.437	1.00	0.00	O
ATOM	5460	N	GLY	X	537	64.528	108.949	111.679	1.00	0.00	N
ATOM	5461	H	GLY	X	537	63.980	109.279	110.898	1.00	0.00	H
ATOM	5462	CA	GLY	X	537	63.802	108.147	112.696	1.00	0.00	C
ATOM	5463	HA2	GLY	X	537	64.104	108.487	113.686	1.00	0.00	H
ATOM	5464	HA3	GLY	X	537	62.718	108.237	112.618	1.00	0.00	H
ATOM	5465	C	GLY	X	537	64.225	106.634	112.725	1.00	0.00	C
ATOM	5466	O	GLY	X	537	64.527	106.170	113.788	1.00	0.00	O
ATOM	5467	N	LEU	X	538	64.436	106.060	111.562	1.00	0.00	N
ATOM	5468	H	LEU	X	538	64.381	106.653	110.747	1.00	0.00	H
ATOM	5469	CA	LEU	X	538	64.931	104.670	111.445	1.00	0.00	C
ATOM	5470	HA	LEU	X	538	64.255	103.977	111.946	1.00	0.00	H
ATOM	5471	CB	LEU	X	538	64.971	104.307	109.973	1.00	0.00	C
ATOM	5472	HB2	LEU	X	538	65.310	105.192	109.437	1.00	0.00	H
ATOM	5473	HB3	LEU	X	538	65.696	103.532	109.722	1.00	0.00	H
ATOM	5474	CG	LEU	X	538	63.614	103.899	109.370	1.00	0.00	C
ATOM	5475	HG	LEU	X	538	63.033	104.815	109.461	1.00	0.00	H
ATOM	5476	CD1	LEU	X	538	63.814	103.226	107.933	1.00	0.00	C
ATOM	5477	HD11	LEU	X	538	62.936	102.685	107.579	1.00	0.00	H
ATOM	5478	HD12	LEU	X	538	63.968	104.067	107.257	1.00	0.00	H
ATOM	5479	HD13	LEU	X	538	64.680	102.564	107.901	1.00	0.00	H
ATOM	5480	CD2	LEU	X	538	62.793	102.850	110.168	1.00	0.00	C
ATOM	5481	HD21	LEU	X	538	61.951	102.506	109.569	1.00	0.00	H
ATOM	5482	HD22	LEU	X	538	63.466	102.029	110.421	1.00	0.00	H
ATOM	5483	HD23	LEU	X	538	62.402	103.315	111.072	1.00	0.00	H
ATOM	5484	C	LEU	X	538	66.273	104.550	112.205	1.00	0.00	C
ATOM	5485	O	LEU	X	538	66.455	103.714	113.069	1.00	0.00	O
ATOM	5486	N	GLY	X	539	67.170	105.506	111.996	1.00	0.00	N
ATOM	5487	H	GLY	X	539	66.915	106.102	111.221	1.00	0.00	H
ATOM	5488	CA	GLY	X	539	68.572	105.483	112.537	1.00	0.00	C
ATOM	5489	HA2	GLY	X	539	68.962	104.468	112.623	1.00	0.00	H
ATOM	5490	HA3	GLY	X	539	69.162	106.005	111.785	1.00	0.00	H
ATOM	5491	C	GLY	X	539	68.739	106.321	113.823	1.00	0.00	C
ATOM	5492	O	GLY	X	539	69.834	106.198	114.384	1.00	0.00	O

ATOM	5493	N	MET	X	540	67.697	107.031	114.328	1.00	0.00	N
ATOM	5494	H	MET	X	540	66.893	107.147	113.728	1.00	0.00	H
ATOM	5495	CA	MET	X	540	67.514	107.526	115.714	1.00	0.00	C
ATOM	5496	HA	MET	X	540	68.472	107.564	116.232	1.00	0.00	H
ATOM	5497	CB	MET	X	540	67.181	109.054	115.772	1.00	0.00	C
ATOM	5498	HB2	MET	X	540	66.315	109.235	115.137	1.00	0.00	H
ATOM	5499	HB3	MET	X	540	67.006	109.385	116.795	1.00	0.00	H
ATOM	5500	CG	MET	X	540	68.405	109.776	115.189	1.00	0.00	C
ATOM	5501	HG2	MET	X	540	68.521	109.333	114.200	1.00	0.00	H
ATOM	5502	HG3	MET	X	540	68.086	110.797	114.973	1.00	0.00	H
ATOM	5503	SD	MET	X	540	70.011	109.717	115.987	1.00	0.00	S
ATOM	5504	CE	MET	X	540	69.557	110.027	117.719	1.00	0.00	C
ATOM	5505	HE1	MET	X	540	69.109	109.136	118.159	1.00	0.00	H
ATOM	5506	HE2	MET	X	540	70.465	110.293	118.262	1.00	0.00	H
ATOM	5507	HE3	MET	X	540	68.895	110.892	117.766	1.00	0.00	H
ATOM	5508	C	MET	X	540	66.559	106.753	116.585	1.00	0.00	C
ATOM	5509	O	MET	X	540	66.308	107.047	117.735	1.00	0.00	O
ATOM	5510	N	CYS	X	541	66.093	105.589	116.097	1.00	0.00	N
ATOM	5511	H	CYS	X	541	66.358	105.364	115.149	1.00	0.00	H
ATOM	5512	CA	CYS	X	541	65.145	104.682	116.704	1.00	0.00	C
ATOM	5513	HA	CYS	X	541	64.899	103.995	115.896	1.00	0.00	H
ATOM	5514	CB	CYS	X	541	65.743	103.799	117.829	1.00	0.00	C
ATOM	5515	HB2	CYS	X	541	66.041	104.392	118.695	1.00	0.00	H
ATOM	5516	HB3	CYS	X	541	64.927	103.269	118.318	1.00	0.00	H
ATOM	5517	SG	CYS	X	541	67.233	102.751	117.269	1.00	0.00	S
ATOM	5518	HG	CYS	X	541	66.766	101.592	117.740	1.00	0.00	H
ATOM	5519	C	CYS	X	541	63.819	105.342	117.081	1.00	0.00	C
ATOM	5520	O	CYS	X	541	62.911	104.796	117.641	1.00	0.00	O
ATOM	5521	N	CYS	X	542	63.638	106.582	116.679	1.00	0.00	N
ATOM	5522	H	CYS	X	542	64.414	107.073	116.258	1.00	0.00	H
ATOM	5523	CA	CYS	X	542	62.483	107.434	116.919	1.00	0.00	C
ATOM	5524	HA	CYS	X	542	62.219	107.243	117.960	1.00	0.00	H
ATOM	5525	CB	CYS	X	542	62.801	108.880	116.797	1.00	0.00	C
ATOM	5526	HB2	CYS	X	542	63.116	109.118	115.781	1.00	0.00	H
ATOM	5527	HB3	CYS	X	542	61.896	109.466	116.955	1.00	0.00	H
ATOM	5528	SG	CYS	X	542	64.067	109.456	117.897	1.00	0.00	S
ATOM	5529	HG	CYS	X	542	64.761	108.358	117.587	1.00	0.00	H
ATOM	5530	C	CYS	X	542	61.307	107.117	116.051	1.00	0.00	C
ATOM	5531	O	CYS	X	542	61.480	107.071	114.840	1.00	0.00	O
ATOM	5532	N	TYR	X	543	60.126	107.127	116.660	1.00	0.00	N
ATOM	5533	H	TYR	X	543	60.035	107.340	117.643	1.00	0.00	H
ATOM	5534	CA	TYR	X	543	58.839	106.934	116.010	1.00	0.00	C
ATOM	5535	HA	TYR	X	543	58.941	107.069	114.933	1.00	0.00	H
ATOM	5536	CB	TYR	X	543	58.312	105.557	116.351	1.00	0.00	C
ATOM	5537	HB2	TYR	X	543	59.124	104.887	116.071	1.00	0.00	H
ATOM	5538	HB3	TYR	X	543	58.074	105.385	117.401	1.00	0.00	H
ATOM	5539	CG	TYR	X	543	57.042	105.139	115.689	1.00	0.00	C
ATOM	5540	CD1	TYR	X	543	57.073	104.295	114.566	1.00	0.00	C
ATOM	5541	HD1	TYR	X	543	58.070	104.129	114.185	1.00	0.00	H
ATOM	5542	CE1	TYR	X	543	55.904	103.664	114.075	1.00	0.00	C
ATOM	5543	HE1	TYR	X	543	56.032	103.068	113.184	1.00	0.00	H
ATOM	5544	CZ	TYR	X	543	54.636	104.008	114.659	1.00	0.00	C
ATOM	5545	OH	TYR	X	543	53.429	103.722	114.072	1.00	0.00	O
ATOM	5546	HH	TYR	X	543	52.670	104.251	114.328	1.00	0.00	H
ATOM	5547	CE2	TYR	X	543	54.620	104.947	115.723	1.00	0.00	C
ATOM	5548	HE2	TYR	X	543	53.635	105.180	116.099	1.00	0.00	H
ATOM	5549	CD2	TYR	X	543	55.781	105.474	116.284	1.00	0.00	C
ATOM	5550	HD2	TYR	X	543	55.684	106.206	117.071	1.00	0.00	H
ATOM	5551	C	TYR	X	543	57.842	108.033	116.492	1.00	0.00	C
ATOM	5552	O	TYR	X	543	56.789	108.236	115.900	1.00	0.00	O
ATOM	5553	N	VAL	X	544	58.157	108.810	117.501	1.00	0.00	N
ATOM	5554	H	VAL	X	544	59.116	108.629	117.758	1.00	0.00	H
ATOM	5555	CA	VAL	X	544	57.435	109.989	118.089	1.00	0.00	C
ATOM	5556	HA	VAL	X	544	56.572	110.310	117.503	1.00	0.00	H
ATOM	5557	CB	VAL	X	544	56.928	109.670	119.485	1.00	0.00	C
ATOM	5558	HB	VAL	X	544	57.795	109.685	120.144	1.00	0.00	H
ATOM	5559	CG1	VAL	X	544	55.958	110.815	119.899	1.00	0.00	C
ATOM	5560	HG11	VAL	X	544	54.932	110.711	119.545	1.00	0.00	H
ATOM	5561	HG12	VAL	X	544	55.941	110.901	120.985	1.00	0.00	H
ATOM	5562	HG13	VAL	X	544	56.363	111.787	119.619	1.00	0.00	H
ATOM	5563	CG2	VAL	X	544	56.309	108.296	119.619	1.00	0.00	C
ATOM	5564	HG21	VAL	X	544	57.013	107.479	119.456	1.00	0.00	H
ATOM	5565	HG22	VAL	X	544	56.027	108.097	120.654	1.00	0.00	H
ATOM	5566	HG23	VAL	X	544	55.407	108.327	119.010	1.00	0.00	H
ATOM	5567	C	VAL	X	544	58.403	111.165	118.051	1.00	0.00	C
ATOM	5568	O	VAL	X	544	59.544	111.011	118.442	1.00	0.00	O
ATOM	5569	N	PHE	X	545	58.050	112.396	117.613	1.00	0.00	N
ATOM	5570	H	PHE	X	545	57.050	112.420	117.479	1.00	0.00	H
ATOM	5571	CA	PHE	X	545	58.918	113.494	117.264	1.00	0.00	C
ATOM	5572	HA	PHE	X	545	59.916	113.280	117.647	1.00	0.00	H
ATOM	5573	CB	PHE	X	545	59.097	113.641	115.714	1.00	0.00	C
ATOM	5574	HB2	PHE	X	545	58.197	114.102	115.306	1.00	0.00	H

ATOM	5575	HB3	PHE	X	545	59.953	114.257	115.438	1.00	0.00		H
ATOM	5576	CG	PHE	X	545	59.287	112.374	114.914	1.00	0.00		C
ATOM	5577	CD1	PHE	X	545	58.246	111.858	114.091	1.00	0.00		C
ATOM	5578	HD1	PHE	X	545	57.274	112.320	114.169	1.00	0.00		H
ATOM	5579	CE1	PHE	X	545	58.572	110.847	113.180	1.00	0.00		C
ATOM	5580	HE1	PHE	X	545	57.729	110.519	112.588	1.00	0.00		H
ATOM	5581	CZ	PHE	X	545	59.837	110.235	113.097	1.00	0.00		C
ATOM	5582	HZ	PHE	X	545	60.068	109.399	112.453	1.00	0.00		H
ATOM	5583	CE2	PHE	X	545	60.892	110.769	113.876	1.00	0.00		C
ATOM	5584	HE2	PHE	X	545	61.927	110.494	113.729	1.00	0.00		H
ATOM	5585	CD2	PHE	X	545	60.638	111.861	114.720	1.00	0.00		C
ATOM	5586	HD2	PHE	X	545	61.398	112.315	115.337	1.00	0.00		H
ATOM	5587	C	PHE	X	545	58.522	114.810	117.982	1.00	0.00		C
ATOM	5588	O	PHE	X	545	57.341	115.139	118.194	1.00	0.00		O
ATOM	5589	N	SER	X	546	59.499	115.667	118.268	1.00	0.00		N
ATOM	5590	H	SER	X	546	60.400	115.302	117.994	1.00	0.00		H
ATOM	5591	CA	SER	X	546	59.339	117.000	118.818	1.00	0.00		C
ATOM	5592	HA	SER	X	546	58.560	117.045	119.577	1.00	0.00		H
ATOM	5593	CB	SER	X	546	60.601	117.351	119.596	1.00	0.00		C
ATOM	5594	HB2	SER	X	546	60.380	118.026	120.422	1.00	0.00		H
ATOM	5595	HB3	SER	X	546	61.043	116.475	120.072	1.00	0.00		H
ATOM	5596	OG	SER	X	546	61.598	118.024	118.766	1.00	0.00		O
ATOM	5597	HG	SER	X	546	62.416	118.004	119.265	1.00	0.00		H
ATOM	5598	C	SER	X	546	59.111	118.109	117.781	1.00	0.00		C
ATOM	5599	O	SER	X	546	59.363	117.844	116.558	1.00	0.00		O
ATOM	5600	N	ALA	X	547	58.666	119.268	118.173	1.00	0.00		N
ATOM	5601	H	ALA	X	547	58.390	119.449	119.129	1.00	0.00		H
ATOM	5602	CA	ALA	X	547	58.462	120.391	117.298	1.00	0.00		C
ATOM	5603	HA	ALA	X	547	57.855	120.118	116.436	1.00	0.00		H
ATOM	5604	CB	ALA	X	547	57.704	121.580	117.927	1.00	0.00		C
ATOM	5605	HB1	ALA	X	547	57.566	122.425	117.253	1.00	0.00		H
ATOM	5606	HB2	ALA	X	547	56.787	121.167	118.347	1.00	0.00		H
ATOM	5607	HB3	ALA	X	547	58.214	121.849	118.852	1.00	0.00		H
ATOM	5608	C	ALA	X	547	59.761	120.878	116.616	1.00	0.00		C
ATOM	5609	O	ALA	X	547	59.760	121.303	115.432	1.00	0.00		O
ATOM	5610	N	GLN	X	548	60.935	120.663	117.297	1.00	0.00		N
ATOM	5611	H	GLN	X	548	60.905	120.334	118.251	1.00	0.00		H
ATOM	5612	CA	GLN	X	548	62.239	120.785	116.655	1.00	0.00		C
ATOM	5613	HA	GLN	X	548	62.192	121.694	116.055	1.00	0.00		H
ATOM	5614	CB	GLN	X	548	63.321	120.956	117.731	1.00	0.00		C
ATOM	5615	HB2	GLN	X	548	62.945	121.628	118.501	1.00	0.00		H
ATOM	5616	HB3	GLN	X	548	63.542	120.033	118.265	1.00	0.00		H
ATOM	5617	CG	GLN	X	548	64.588	121.607	117.202	1.00	0.00		C
ATOM	5618	HG2	GLN	X	548	64.373	122.364	116.449	1.00	0.00		H
ATOM	5619	HG3	GLN	X	548	65.063	122.196	117.988	1.00	0.00		H
ATOM	5620	CD	GLN	X	548	65.645	120.643	116.702	1.00	0.00		C
ATOM	5621	OE1	GLN	X	548	65.468	119.437	116.511	1.00	0.00		O
ATOM	5622	NE2	GLN	X	548	66.749	121.212	116.240	1.00	0.00		N
ATOM	5623	HE21	GLN	X	548	67.592	120.657	116.200	1.00	0.00		H
ATOM	5624	HE22	GLN	X	548	66.839	122.212	116.350	1.00	0.00		H
ATOM	5625	C	GLN	X	548	62.504	119.680	115.678	1.00	0.00		C
ATOM	5626	O	GLN	X	548	62.999	120.048	114.588	1.00	0.00		O
ATOM	5627	N	GLN	X	549	62.139	118.390	115.940	1.00	0.00		N
ATOM	5628	H	GLN	X	549	61.697	118.099	116.800	1.00	0.00		H
ATOM	5629	CA	GLN	X	549	62.423	117.352	114.936	1.00	0.00		C
ATOM	5630	HA	GLN	X	549	63.461	117.439	114.611	1.00	0.00		H
ATOM	5631	CB	GLN	X	549	62.232	115.979	115.537	1.00	0.00		C
ATOM	5632	HB2	GLN	X	549	61.332	116.047	116.147	1.00	0.00		H
ATOM	5633	HB3	GLN	X	549	62.206	115.262	114.718	1.00	0.00		H
ATOM	5634	CG	GLN	X	549	63.470	115.673	116.545	1.00	0.00		C
ATOM	5635	HG2	GLN	X	549	64.319	115.291	115.980	1.00	0.00		H
ATOM	5636	HG3	GLN	X	549	63.801	116.623	116.963	1.00	0.00		H
ATOM	5637	CD	GLN	X	549	63.146	114.745	117.698	1.00	0.00		C
ATOM	5638	OE1	GLN	X	549	62.108	114.106	117.629	1.00	0.00		O
ATOM	5639	NE2	GLN	X	549	63.906	114.743	118.763	1.00	0.00		N
ATOM	5640	HE21	GLN	X	549	64.028	113.883	119.280	1.00	0.00		H
ATOM	5641	HE22	GLN	X	549	64.723	115.332	118.831	1.00	0.00		H
ATOM	5642	C	GLN	X	549	61.620	117.469	113.605	1.00	0.00		C
ATOM	5643	O	GLN	X	549	62.150	117.089	112.473	1.00	0.00		O
ATOM	5644	N	LEU	X	550	60.400	118.017	113.584	1.00	0.00		N
ATOM	5645	H	LEU	X	550	60.036	118.393	114.449	1.00	0.00		H
ATOM	5646	CA	LEU	X	550	59.622	118.400	112.425	1.00	0.00		C
ATOM	5647	HA	LEU	X	550	59.573	117.623	111.663	1.00	0.00		H
ATOM	5648	CB	LEU	X	550	58.148	118.491	112.922	1.00	0.00		C
ATOM	5649	HB2	LEU	X	550	58.050	119.215	113.731	1.00	0.00		H
ATOM	5650	HB3	LEU	X	550	57.566	118.799	112.052	1.00	0.00		H
ATOM	5651	CG	LEU	X	550	57.580	117.141	113.441	1.00	0.00		C
ATOM	5652	HG	LEU	X	550	58.352	116.555	113.937	1.00	0.00		H
ATOM	5653	CD1	LEU	X	550	56.416	117.432	114.429	1.00	0.00		C
ATOM	5654	HD11	LEU	X	550	55.852	118.294	114.075	1.00	0.00		H
ATOM	5655	HD12	LEU	X	550	55.797	116.563	114.656	1.00	0.00		H
ATOM	5656	HD13	LEU	X	550	56.889	117.790	115.343	1.00	0.00		H

ATOM	5657	CD2	LEU	X	550	56.893	116.262	112.348	1.00	0.00		C
ATOM	5658	HD21	LEU	X	550	56.010	116.826	112.047	1.00	0.00		H
ATOM	5659	HD22	LEU	X	550	57.574	116.137	111.506	1.00	0.00		H
ATOM	5660	HD23	LEU	X	550	56.784	115.284	112.817	1.00	0.00		H
ATOM	5661	C	LEU	X	550	60.107	119.689	111.744	1.00	0.00		C
ATOM	5662	O	LEU	X	550	60.274	119.742	110.544	1.00	0.00		O
ATOM	5663	N	GLN	X	551	60.520	120.763	112.458	1.00	0.00		N
ATOM	5664	H	GLN	X	551	60.420	120.680	113.459	1.00	0.00		H
ATOM	5665	CA	GLN	X	551	61.240	121.920	111.875	1.00	0.00		C
ATOM	5666	HA	GLN	X	551	60.624	122.261	111.044	1.00	0.00		H
ATOM	5667	CB	GLN	X	551	61.525	122.949	112.911	1.00	0.00		C
ATOM	5668	HB2	GLN	X	551	60.591	123.083	113.458	1.00	0.00		H
ATOM	5669	HB3	GLN	X	551	62.294	122.610	113.605	1.00	0.00		H
ATOM	5670	CG	GLN	X	551	62.016	124.252	112.475	1.00	0.00		C
ATOM	5671	HG2	GLN	X	551	62.356	124.257	111.439	1.00	0.00		H
ATOM	5672	HG3	GLN	X	551	61.131	124.878	112.355	1.00	0.00		H
ATOM	5673	CD	GLN	X	551	63.077	124.963	113.267	1.00	0.00		C
ATOM	5674	OE1	GLN	X	551	63.200	124.799	114.478	1.00	0.00		O
ATOM	5675	NE2	GLN	X	551	63.922	125.753	112.720	1.00	0.00		N
ATOM	5676	HE21	GLN	X	551	64.628	126.234	113.260	1.00	0.00		H
ATOM	5677	HE22	GLN	X	551	63.767	125.961	111.743	1.00	0.00		H
ATOM	5678	C	GLN	X	551	62.608	121.503	111.180	1.00	0.00		C
ATOM	5679	O	GLN	X	551	62.850	121.914	110.077	1.00	0.00		O
ATOM	5680	N	ALA	X	552	63.420	120.580	111.810	1.00	0.00		N
ATOM	5681	H	ALA	X	552	63.107	120.090	112.636	1.00	0.00		H
ATOM	5682	CA	ALA	X	552	64.619	120.030	111.232	1.00	0.00		C
ATOM	5683	HA	ALA	X	552	65.326	120.804	110.931	1.00	0.00		H
ATOM	5684	CB	ALA	X	552	65.261	119.215	112.270	1.00	0.00		C
ATOM	5685	HB1	ALA	X	552	65.614	119.689	113.186	1.00	0.00		H
ATOM	5686	HB2	ALA	X	552	64.611	118.388	112.554	1.00	0.00		H
ATOM	5687	HB3	ALA	X	552	66.135	118.687	111.889	1.00	0.00		H
ATOM	5688	C	ALA	X	552	64.434	119.168	109.942	1.00	0.00		C
ATOM	5689	O	ALA	X	552	65.304	119.042	109.100	1.00	0.00		O
ATOM	5690	N	ALA	X	553	63.253	118.580	109.859	1.00	0.00		N
ATOM	5691	H	ALA	X	553	62.660	118.328	110.636	1.00	0.00		H
ATOM	5692	CA	ALA	X	553	62.652	118.067	108.608	1.00	0.00		C
ATOM	5693	HA	ALA	X	553	63.406	117.614	107.966	1.00	0.00		H
ATOM	5694	CB	ALA	X	553	61.584	117.063	109.058	1.00	0.00		C
ATOM	5695	HB1	ALA	X	553	60.964	116.606	108.285	1.00	0.00		H
ATOM	5696	HB2	ALA	X	553	62.131	116.243	109.524	1.00	0.00		H
ATOM	5697	HB3	ALA	X	553	60.929	117.416	109.855	1.00	0.00		H
ATOM	5698	C	ALA	X	553	62.047	119.069	107.619	1.00	0.00		C
ATOM	5699	O	ALA	X	553	61.750	118.672	106.463	1.00	0.00		O
ATOM	5700	N	GLN	X	554	61.896	120.321	108.025	1.00	0.00		N
ATOM	5701	H	GLN	X	554	62.107	120.474	109.001	1.00	0.00		H
ATOM	5702	CA	GLN	X	554	61.255	121.479	107.362	1.00	0.00		C
ATOM	5703	HA	GLN	X	554	61.257	122.317	108.059	1.00	0.00		H
ATOM	5704	CB	GLN	X	554	62.021	121.833	106.051	1.00	0.00		C
ATOM	5705	HB2	GLN	X	554	62.081	121.021	105.326	1.00	0.00		H
ATOM	5706	HB3	GLN	X	554	61.507	122.660	105.562	1.00	0.00		H
ATOM	5707	CG	GLN	X	554	63.460	122.247	106.431	1.00	0.00		C
ATOM	5708	HG2	GLN	X	554	63.284	123.134	107.040	1.00	0.00		H
ATOM	5709	HG3	GLN	X	554	64.040	121.524	107.005	1.00	0.00		H
ATOM	5710	CD	GLN	X	554	64.306	122.617	105.198	1.00	0.00		C
ATOM	5711	OE1	GLN	X	554	63.821	122.578	104.036	1.00	0.00		O
ATOM	5712	NE2	GLN	X	554	65.586	123.034	105.435	1.00	0.00		N
ATOM	5713	HE21	GLN	X	554	66.037	123.408	104.613	1.00	0.00		H
ATOM	5714	HE22	GLN	X	554	65.966	123.026	106.371	1.00	0.00		H
ATOM	5715	C	GLN	X	554	59.772	121.198	107.092	1.00	0.00		C
ATOM	5716	O	GLN	X	554	59.153	121.810	106.204	1.00	0.00		O
ATOM	5717	N	VAL	X	555	59.198	120.321	107.904	1.00	0.00		N
ATOM	5718	H	VAL	X	555	59.748	119.993	108.687	1.00	0.00		H
ATOM	5719	CA	VAL	X	555	57.786	119.903	107.814	1.00	0.00		C
ATOM	5720	HA	VAL	X	555	57.505	119.644	106.794	1.00	0.00		H
ATOM	5721	CB	VAL	X	555	57.537	118.612	108.644	1.00	0.00		C
ATOM	5722	HB	VAL	X	555	58.064	118.759	109.585	1.00	0.00		H
ATOM	5723	CG1	VAL	X	555	56.087	118.220	109.049	1.00	0.00		C
ATOM	5724	HG11	VAL	X	555	55.401	118.238	108.203	1.00	0.00		H
ATOM	5725	HG12	VAL	X	555	56.105	117.198	109.429	1.00	0.00		H
ATOM	5726	HG13	VAL	X	555	55.768	118.939	109.804	1.00	0.00		H
ATOM	5727	CG2	VAL	X	555	58.082	117.313	107.974	1.00	0.00		C
ATOM	5728	HG21	VAL	X	555	57.355	116.823	107.328	1.00	0.00		H
ATOM	5729	HG22	VAL	X	555	58.995	117.488	107.405	1.00	0.00		H
ATOM	5730	HG23	VAL	X	555	58.523	116.605	108.676	1.00	0.00		H
ATOM	5731	C	VAL	X	555	56.806	121.021	108.150	1.00	0.00		C
ATOM	5732	O	VAL	X	555	56.986	121.736	109.098	1.00	0.00		O
ATOM	5733	N	ASP	X	556	55.732	121.046	107.290	1.00	0.00		N
ATOM	5734	H	ASP	X	556	55.777	120.448	106.476	1.00	0.00		H
ATOM	5735	CA	ASP	X	556	54.572	121.986	107.308	1.00	0.00		C
ATOM	5736	HA	ASP	X	556	54.825	122.871	107.891	1.00	0.00		H
ATOM	5737	CB	ASP	X	556	54.422	122.549	105.875	1.00	0.00		C
ATOM	5738	HB2	ASP	X	556	55.410	122.838	105.514	1.00	0.00		H

ATOM	5739	HB3	ASP	X	556	54.149	121.786	105.147	1.00	0.00	H
ATOM	5740	CG	ASP	X	556	53.447	123.757	105.970	1.00	0.00	C
ATOM	5741	OD1	ASP	X	556	53.832	124.868	106.433	1.00	0.00	O
ATOM	5742	OD2	ASP	X	556	52.257	123.602	105.691	1.00	0.00	O
ATOM	5743	C	ASP	X	556	53.328	121.307	107.821	1.00	0.00	C
ATOM	5744	O	ASP	X	556	53.244	120.100	107.565	1.00	0.00	O
ATOM	5745	N	PRO	X	557	52.364	121.983	108.466	1.00	0.00	N
ATOM	5746	CD	PRO	X	557	52.595	123.245	109.180	1.00	0.00	C
ATOM	5747	HD2	PRO	X	557	52.511	124.071	108.475	1.00	0.00	H
ATOM	5748	HD3	PRO	X	557	53.529	123.185	109.739	1.00	0.00	H
ATOM	5749	CG	PRO	X	557	51.442	123.266	110.226	1.00	0.00	C
ATOM	5750	HG2	PRO	X	557	51.057	124.266	110.427	1.00	0.00	H
ATOM	5751	HG3	PRO	X	557	51.798	122.797	111.142	1.00	0.00	H
ATOM	5752	CB	PRO	X	557	50.312	122.435	109.570	1.00	0.00	C
ATOM	5753	HB2	PRO	X	557	49.732	123.034	108.868	1.00	0.00	H
ATOM	5754	HB3	PRO	X	557	49.670	121.980	110.324	1.00	0.00	H
ATOM	5755	CA	PRO	X	557	51.092	121.400	108.765	1.00	0.00	C
ATOM	5756	HA	PRO	X	557	51.335	120.579	109.438	1.00	0.00	H
ATOM	5757	C	PRO	X	557	50.339	120.823	107.584	1.00	0.00	C
ATOM	5758	O	PRO	X	557	49.645	119.852	107.702	1.00	0.00	O
ATOM	5759	N	ASP	X	558	50.671	121.329	106.401	1.00	0.00	N
ATOM	5760	H	ASP	X	558	51.326	122.077	106.225	1.00	0.00	H
ATOM	5761	CA	ASP	X	558	50.115	120.683	105.196	1.00	0.00	C
ATOM	5762	HA	ASP	X	558	49.043	120.487	105.243	1.00	0.00	H
ATOM	5763	CB	ASP	X	558	50.416	121.580	103.987	1.00	0.00	C
ATOM	5764	HB2	ASP	X	558	50.103	122.614	104.124	1.00	0.00	H
ATOM	5765	HB3	ASP	X	558	51.502	121.580	103.888	1.00	0.00	H
ATOM	5766	CG	ASP	X	558	49.814	121.062	102.728	1.00	0.00	C
ATOM	5767	OD1	ASP	X	558	48.558	121.013	102.581	1.00	0.00	O
ATOM	5768	OD2	ASP	X	558	50.604	120.778	101.776	1.00	0.00	O
ATOM	5769	C	ASP	X	558	50.773	119.318	104.831	1.00	0.00	C
ATOM	5770	O	ASP	X	558	50.120	118.563	104.084	1.00	0.00	O
ATOM	5771	N	ASP	X	559	51.956	119.021	105.309	1.00	0.00	N
ATOM	5772	H	ASP	X	559	52.452	119.630	105.944	1.00	0.00	H
ATOM	5773	CA	ASP	X	559	52.628	117.666	105.185	1.00	0.00	C
ATOM	5774	HA	ASP	X	559	52.272	117.187	104.273	1.00	0.00	H
ATOM	5775	CB	ASP	X	559	54.154	117.858	105.204	1.00	0.00	C
ATOM	5776	HB2	ASP	X	559	54.480	118.027	106.229	1.00	0.00	H
ATOM	5777	HB3	ASP	X	559	54.656	116.926	104.942	1.00	0.00	H
ATOM	5778	CG	ASP	X	559	54.665	119.013	104.328	1.00	0.00	C
ATOM	5779	OD1	ASP	X	559	55.551	119.653	104.910	1.00	0.00	O
ATOM	5780	OD2	ASP	X	559	54.344	119.182	103.111	1.00	0.00	O
ATOM	5781	C	ASP	X	559	52.227	116.693	106.371	1.00	0.00	C
ATOM	5782	O	ASP	X	559	52.014	115.497	106.265	1.00	0.00	O
ATOM	5783	N	ILE	X	560	51.914	117.195	107.555	1.00	0.00	N
ATOM	5784	H	ILE	X	560	52.033	118.194	107.634	1.00	0.00	H
ATOM	5785	CA	ILE	X	560	51.223	116.606	108.672	1.00	0.00	C
ATOM	5786	HA	ILE	X	560	51.682	115.648	108.905	1.00	0.00	H
ATOM	5787	CB	ILE	X	560	51.337	117.434	109.972	1.00	0.00	C
ATOM	5788	HB	ILE	X	560	50.968	118.431	109.731	1.00	0.00	H
ATOM	5789	CG2	ILE	X	560	50.559	116.954	111.187	1.00	0.00	C
ATOM	5790	HG21	ILE	X	560	49.513	117.153	110.954	1.00	0.00	H
ATOM	5791	HG22	ILE	X	560	50.755	115.947	111.557	1.00	0.00	H
ATOM	5792	HG23	ILE	X	560	50.760	117.571	112.061	1.00	0.00	H
ATOM	5793	CG1	ILE	X	560	52.796	117.540	110.402	1.00	0.00	C
ATOM	5794	HG12	ILE	X	560	53.077	116.647	110.963	1.00	0.00	H
ATOM	5795	HG13	ILE	X	560	53.354	117.442	109.471	1.00	0.00	H
ATOM	5796	CD1	ILE	X	560	53.183	118.761	111.241	1.00	0.00	C
ATOM	5797	HD11	ILE	X	560	52.975	119.667	110.672	1.00	0.00	H
ATOM	5798	HD12	ILE	X	560	52.723	118.801	112.228	1.00	0.00	H
ATOM	5799	HD13	ILE	X	560	54.243	118.811	111.488	1.00	0.00	H
ATOM	5800	C	ILE	X	560	49.724	116.348	108.368	1.00	0.00	C
ATOM	5801	O	ILE	X	560	49.133	115.419	108.919	1.00	0.00	O
ATOM	5802	N	SER	X	561	49.083	117.090	107.493	1.00	0.00	N
ATOM	5803	H	SER	X	561	49.612	117.913	107.239	1.00	0.00	H
ATOM	5804	CA	SER	X	561	47.763	116.859	107.003	1.00	0.00	C
ATOM	5805	HA	SER	X	561	47.200	116.568	107.890	1.00	0.00	H
ATOM	5806	CB	SER	X	561	47.204	118.035	106.183	1.00	0.00	C
ATOM	5807	HB2	SER	X	561	47.739	118.198	105.248	1.00	0.00	H
ATOM	5808	HB3	SER	X	561	46.250	117.657	105.816	1.00	0.00	H
ATOM	5809	OG	SER	X	561	47.254	119.074	107.105	1.00	0.00	O
ATOM	5810	HG	SER	X	561	48.195	119.205	107.244	1.00	0.00	H
ATOM	5811	C	SER	X	561	47.598	115.568	106.152	1.00	0.00	C
ATOM	5812	O	SER	X	561	46.475	115.049	105.994	1.00	0.00	O
ATOM	5813	N	LEU	X	562	48.676	115.027	105.602	1.00	0.00	N
ATOM	5814	H	LEU	X	562	49.519	115.581	105.639	1.00	0.00	H
ATOM	5815	CA	LEU	X	562	48.728	113.797	104.809	1.00	0.00	C
ATOM	5816	HA	LEU	X	562	47.948	113.871	104.051	1.00	0.00	H
ATOM	5817	CB	LEU	X	562	50.104	113.855	104.097	1.00	0.00	C
ATOM	5818	HB2	LEU	X	562	50.197	114.836	103.630	1.00	0.00	H
ATOM	5819	HB3	LEU	X	562	50.938	113.772	104.793	1.00	0.00	H
ATOM	5820	CG	LEU	X	562	50.300	112.772	103.006	1.00	0.00	C

ATOM	5821	HG	LEU	X	562	50.334	111.761	103.408	1.00	0.00	H
ATOM	5822	CD1	LEU	X	562	49.168	112.676	101.985	1.00	0.00	C
ATOM	5823	HD11	LEU	X	562	48.234	112.506	102.520	1.00	0.00	H
ATOM	5824	HD12	LEU	X	562	48.923	113.545	101.375	1.00	0.00	H
ATOM	5825	HD13	LEU	X	562	49.435	111.974	101.195	1.00	0.00	H
ATOM	5826	CD2	LEU	X	562	51.533	113.090	102.147	1.00	0.00	C
ATOM	5827	HD21	LEU	X	562	51.688	112.367	101.347	1.00	0.00	H
ATOM	5828	HD22	LEU	X	562	51.422	114.013	101.576	1.00	0.00	H
ATOM	5829	HD23	LEU	X	562	52.485	113.211	102.664	1.00	0.00	H
ATOM	5830	C	LEU	X	562	48.310	112.507	105.607	1.00	0.00	C
ATOM	5831	O	LEU	X	562	48.021	111.402	105.092	1.00	0.00	O
ATOM	5832	N	GLY	X	563	48.231	112.657	106.963	1.00	0.00	N
ATOM	5833	H	GLY	X	563	48.564	113.501	107.407	1.00	0.00	H
ATOM	5834	CA	GLY	X	563	47.786	111.644	107.872	1.00	0.00	C
ATOM	5835	HA2	GLY	X	563	47.668	112.077	108.866	1.00	0.00	H
ATOM	5836	HA3	GLY	X	563	46.902	111.157	107.460	1.00	0.00	H
ATOM	5837	C	GLY	X	563	48.724	110.394	107.980	1.00	0.00	C
ATOM	5838	O	GLY	X	563	48.424	109.407	108.644	1.00	0.00	O
ATOM	5839	N	PHE	X	564	49.978	110.557	107.434	1.00	0.00	N
ATOM	5840	H	PHE	X	564	50.180	111.357	106.850	1.00	0.00	H
ATOM	5841	CA	PHE	X	564	51.049	109.655	107.855	1.00	0.00	C
ATOM	5842	HA	PHE	X	564	50.690	108.627	107.806	1.00	0.00	H
ATOM	5843	CB	PHE	X	564	52.179	109.755	106.835	1.00	0.00	C
ATOM	5844	HB2	PHE	X	564	52.602	110.757	106.781	1.00	0.00	H
ATOM	5845	HB3	PHE	X	564	52.948	109.085	107.216	1.00	0.00	H
ATOM	5846	CG	PHE	X	564	51.810	109.222	105.464	1.00	0.00	C
ATOM	5847	CD1	PHE	X	564	51.248	107.913	105.416	1.00	0.00	C
ATOM	5848	HD1	PHE	X	564	51.051	107.255	106.249	1.00	0.00	H
ATOM	5849	CE1	PHE	X	564	50.961	107.420	104.107	1.00	0.00	C
ATOM	5850	HE1	PHE	X	564	50.505	106.472	103.864	1.00	0.00	H
ATOM	5851	CZ	PHE	X	564	51.292	108.160	102.969	1.00	0.00	C
ATOM	5852	HZ	PHE	X	564	51.114	107.758	101.982	1.00	0.00	H
ATOM	5853	CE2	PHE	X	564	51.812	109.431	103.075	1.00	0.00	C
ATOM	5854	HE2	PHE	X	564	52.112	109.974	102.190	1.00	0.00	H
ATOM	5855	CD2	PHE	X	564	52.054	110.020	104.331	1.00	0.00	C
ATOM	5856	HD2	PHE	X	564	52.449	111.020	104.431	1.00	0.00	H
ATOM	5857	C	PHE	X	564	51.552	109.892	109.210	1.00	0.00	C
ATOM	5858	O	PHE	X	564	51.829	108.878	109.900	1.00	0.00	O
ATOM	5859	N	LEU	X	565	51.692	111.123	109.626	1.00	0.00	N
ATOM	5860	H	LEU	X	565	51.536	111.896	108.996	1.00	0.00	H
ATOM	5861	CA	LEU	X	565	51.761	111.438	111.055	1.00	0.00	C
ATOM	5862	HA	LEU	X	565	52.276	110.628	111.573	1.00	0.00	H
ATOM	5863	CB	LEU	X	565	52.543	112.785	111.141	1.00	0.00	C
ATOM	5864	HB2	LEU	X	565	52.052	113.556	110.545	1.00	0.00	H
ATOM	5865	HB3	LEU	X	565	52.607	113.254	112.123	1.00	0.00	H
ATOM	5866	CG	LEU	X	565	53.976	112.655	110.694	1.00	0.00	C
ATOM	5867	HG	LEU	X	565	54.117	112.150	109.736	1.00	0.00	H
ATOM	5868	CD1	LEU	X	565	54.544	114.065	110.329	1.00	0.00	C
ATOM	5869	HD11	LEU	X	565	53.928	114.375	109.485	1.00	0.00	H
ATOM	5870	HD12	LEU	X	565	54.485	114.800	111.131	1.00	0.00	H
ATOM	5871	HD13	LEU	X	565	55.520	113.901	109.871	1.00	0.00	H
ATOM	5872	CD2	LEU	X	565	54.964	112.059	111.743	1.00	0.00	C
ATOM	5873	HD21	LEU	X	565	55.063	112.824	112.513	1.00	0.00	H
ATOM	5874	HD22	LEU	X	565	54.674	111.099	112.171	1.00	0.00	H
ATOM	5875	HD23	LEU	X	565	55.945	112.027	111.268	1.00	0.00	H
ATOM	5876	C	LEU	X	565	50.384	111.654	111.661	1.00	0.00	C
ATOM	5877	O	LEU	X	565	49.516	112.232	111.080	1.00	0.00	O
ATOM	5878	N	VAL	X	566	50.277	111.247	112.920	1.00	0.00	N
ATOM	5879	H	VAL	X	566	51.058	110.726	113.292	1.00	0.00	H
ATOM	5880	CA	VAL	X	566	49.011	111.206	113.657	1.00	0.00	C
ATOM	5881	HA	VAL	X	566	48.255	111.903	113.300	1.00	0.00	H
ATOM	5882	CB	VAL	X	566	48.478	109.752	113.700	1.00	0.00	C
ATOM	5883	HB	VAL	X	566	49.094	109.112	114.331	1.00	0.00	H
ATOM	5884	CG1	VAL	X	566	47.029	109.576	114.224	1.00	0.00	C
ATOM	5885	HG11	VAL	X	566	46.913	110.295	115.035	1.00	0.00	H
ATOM	5886	HG12	VAL	X	566	46.369	109.903	113.421	1.00	0.00	H
ATOM	5887	HG13	VAL	X	566	46.906	108.502	114.365	1.00	0.00	H
ATOM	5888	CG2	VAL	X	566	48.503	109.085	112.300	1.00	0.00	C
ATOM	5889	HG21	VAL	X	566	48.060	108.098	112.434	1.00	0.00	H
ATOM	5890	HG22	VAL	X	566	47.974	109.767	111.635	1.00	0.00	H
ATOM	5891	HG23	VAL	X	566	49.502	108.837	111.940	1.00	0.00	H
ATOM	5892	C	VAL	X	566	49.280	111.624	115.082	1.00	0.00	C
ATOM	5893	O	VAL	X	566	50.275	111.213	115.676	1.00	0.00	O
ATOM	5894	N	GLN	X	567	48.536	112.507	115.702	1.00	0.00	N
ATOM	5895	H	GLN	X	567	47.744	112.848	115.177	1.00	0.00	H
ATOM	5896	CA	GLN	X	567	48.615	112.756	117.127	1.00	0.00	C
ATOM	5897	HA	GLN	X	567	49.616	113.157	117.279	1.00	0.00	H
ATOM	5898	CB	GLN	X	567	47.644	113.816	117.712	1.00	0.00	C
ATOM	5899	HB2	GLN	X	567	46.613	113.504	117.543	1.00	0.00	H
ATOM	5900	HB3	GLN	X	567	47.742	113.874	118.796	1.00	0.00	H
ATOM	5901	CG	GLN	X	567	47.689	115.202	117.016	1.00	0.00	C
ATOM	5902	HG2	GLN	X	567	48.688	115.598	117.200	1.00	0.00	H

ATOM	5903	HG3	GLN	X	567	47.573	115.115	115.935	1.00	0.00	H
ATOM	5904	CD	GLN	X	567	46.656	116.170	117.561	1.00	0.00	C
ATOM	5905	OE1	GLN	X	567	45.689	116.605	116.965	1.00	0.00	O
ATOM	5906	NE2	GLN	X	567	46.893	116.535	118.816	1.00	0.00	N
ATOM	5907	HE21	GLN	X	567	46.262	117.081	119.384	1.00	0.00	H
ATOM	5908	HE22	GLN	X	567	47.705	116.140	119.269	1.00	0.00	H
ATOM	5909	C	GLN	X	567	48.324	111.429	117.855	1.00	0.00	C
ATOM	5910	O	GLN	X	567	47.352	110.691	117.614	1.00	0.00	O
ATOM	5911	N	ALA	X	568	49.185	111.144	118.846	1.00	0.00	N
ATOM	5912	H	ALA	X	568	50.014	111.719	118.845	1.00	0.00	H
ATOM	5913	CA	ALA	X	568	49.303	109.841	119.554	1.00	0.00	C
ATOM	5914	HA	ALA	X	568	49.526	109.069	118.818	1.00	0.00	H
ATOM	5915	CB	ALA	X	568	50.452	110.081	120.515	1.00	0.00	C
ATOM	5916	HB1	ALA	X	568	50.614	109.261	121.213	1.00	0.00	H
ATOM	5917	HB2	ALA	X	568	51.414	110.328	120.065	1.00	0.00	H
ATOM	5918	HB3	ALA	X	568	50.240	110.938	121.155	1.00	0.00	H
ATOM	5919	C	ALA	X	568	47.911	109.531	120.215	1.00	0.00	C
ATOM	5920	O	ALA	X	568	47.325	110.378	120.904	1.00	0.00	O
ATOM	5921	N	GLN	X	569	47.373	108.381	119.981	1.00	0.00	N
ATOM	5922	H	GLN	X	569	47.892	107.715	119.425	1.00	0.00	H
ATOM	5923	CA	GLN	X	569	46.002	108.003	120.249	1.00	0.00	C
ATOM	5924	HA	GLN	X	569	45.350	108.877	120.204	1.00	0.00	H
ATOM	5925	CB	GLN	X	569	45.442	107.068	119.120	1.00	0.00	C
ATOM	5926	HB2	GLN	X	569	45.971	106.115	119.114	1.00	0.00	H
ATOM	5927	HB3	GLN	X	569	44.355	107.046	119.182	1.00	0.00	H
ATOM	5928	CG	GLN	X	569	45.698	107.752	117.763	1.00	0.00	C
ATOM	5929	HG2	GLN	X	569	45.328	108.774	117.833	1.00	0.00	H
ATOM	5930	HG3	GLN	X	569	46.758	107.733	117.507	1.00	0.00	H
ATOM	5931	CD	GLN	X	569	44.872	107.217	116.576	1.00	0.00	C
ATOM	5932	OE1	GLN	X	569	44.243	107.996	115.855	1.00	0.00	O
ATOM	5933	NE2	GLN	X	569	44.677	105.889	116.481	1.00	0.00	N
ATOM	5934	HE21	GLN	X	569	44.050	105.492	115.796	1.00	0.00	H
ATOM	5935	HE22	GLN	X	569	45.129	105.239	117.109	1.00	0.00	H
ATOM	5936	C	GLN	X	569	45.783	107.463	121.654	1.00	0.00	C
ATOM	5937	O	GLN	X	569	44.641	107.226	122.026	1.00	0.00	O
ATOM	5938	N	GLY	X	570	46.849	107.285	122.470	1.00	0.00	N
ATOM	5939	H	GLY	X	570	47.685	107.744	122.136	1.00	0.00	H
ATOM	5940	CA	GLY	X	570	46.945	106.788	123.774	1.00	0.00	C
ATOM	5941	HA2	GLY	X	570	46.784	105.709	123.764	1.00	0.00	H
ATOM	5942	HA3	GLY	X	570	47.978	106.828	124.119	1.00	0.00	H
ATOM	5943	C	GLY	X	570	46.190	107.559	124.841	1.00	0.00	C
ATOM	5944	O	GLY	X	570	45.958	107.098	125.954	1.00	0.00	O
ATOM	5945	N	VAL	X	571	45.663	108.740	124.423	1.00	0.00	N
ATOM	5946	H	VAL	X	571	45.859	109.137	123.514	1.00	0.00	H
ATOM	5947	CA	VAL	X	571	44.771	109.607	125.151	1.00	0.00	C
ATOM	5948	HA	VAL	X	571	44.212	109.134	125.957	1.00	0.00	H
ATOM	5949	CB	VAL	X	571	45.453	110.875	125.721	1.00	0.00	C
ATOM	5950	HB	VAL	X	571	44.723	111.635	126.000	1.00	0.00	H
ATOM	5951	CG1	VAL	X	571	46.304	110.596	126.952	1.00	0.00	C
ATOM	5952	HG11	VAL	X	571	47.220	110.041	126.748	1.00	0.00	H
ATOM	5953	HG12	VAL	X	571	46.563	111.527	127.457	1.00	0.00	H
ATOM	5954	HG13	VAL	X	571	45.754	110.006	127.685	1.00	0.00	H
ATOM	5955	CG2	VAL	X	571	46.315	111.573	124.673	1.00	0.00	C
ATOM	5956	HG21	VAL	X	571	45.719	111.825	123.796	1.00	0.00	H
ATOM	5957	HG22	VAL	X	571	46.695	112.479	125.145	1.00	0.00	H
ATOM	5958	HG23	VAL	X	571	47.149	110.917	124.421	1.00	0.00	H
ATOM	5959	C	VAL	X	571	43.685	110.136	124.170	1.00	0.00	C
ATOM	5960	O	VAL	X	571	43.854	110.081	122.911	1.00	0.00	O
ATOM	5961	N	VAL	X	572	42.656	110.639	124.767	1.00	0.00	N
ATOM	5962	H	VAL	X	572	42.513	110.623	125.767	1.00	0.00	H
ATOM	5963	CA	VAL	X	572	41.502	111.227	124.061	1.00	0.00	C
ATOM	5964	HA	VAL	X	572	40.858	110.464	123.622	1.00	0.00	H
ATOM	5965	CB	VAL	X	572	40.573	111.905	125.112	1.00	0.00	C
ATOM	5966	HB	VAL	X	572	40.471	111.237	125.968	1.00	0.00	H
ATOM	5967	CG1	VAL	X	572	41.018	113.321	125.574	1.00	0.00	C
ATOM	5968	HG11	VAL	X	572	40.364	113.600	126.399	1.00	0.00	H
ATOM	5969	HG12	VAL	X	572	41.965	113.321	126.116	1.00	0.00	H
ATOM	5970	HG13	VAL	X	572	41.095	114.115	124.830	1.00	0.00	H
ATOM	5971	CG2	VAL	X	572	39.176	112.112	124.557	1.00	0.00	C
ATOM	5972	HG21	VAL	X	572	39.292	112.647	123.616	1.00	0.00	H
ATOM	5973	HG22	VAL	X	572	38.782	111.114	124.369	1.00	0.00	H
ATOM	5974	HG23	VAL	X	572	38.583	112.573	125.347	1.00	0.00	H
ATOM	5975	C	VAL	X	572	41.939	112.232	123.000	1.00	0.00	C
ATOM	5976	O	VAL	X	572	42.957	112.951	123.238	1.00	0.00	O
ATOM	5977	N	PRO	X	573	41.294	112.179	121.818	1.00	0.00	N
ATOM	5978	CD	PRO	X	573	40.162	111.277	121.441	1.00	0.00	C
ATOM	5979	HD2	PRO	X	573	39.446	111.052	122.230	1.00	0.00	H
ATOM	5980	HD3	PRO	X	573	40.504	110.289	121.129	1.00	0.00	H
ATOM	5981	CG	PRO	X	573	39.264	111.916	120.416	1.00	0.00	C
ATOM	5982	HG2	PRO	X	573	38.619	112.625	120.935	1.00	0.00	H
ATOM	5983	HG3	PRO	X	573	38.631	111.261	119.817	1.00	0.00	H
ATOM	5984	CB	PRO	X	573	40.378	112.736	119.709	1.00	0.00	C

ATOM	5985	HB2	PRO	X	573	40.023	113.635	119.207	1.00	0.00	H
ATOM	5986	HB3	PRO	X	573	40.896	112.058	119.030	1.00	0.00	H
ATOM	5987	CA	PRO	X	573	41.438	113.199	120.765	1.00	0.00	C
ATOM	5988	HA	PRO	X	573	42.415	113.130	120.287	1.00	0.00	H
ATOM	5989	C	PRO	X	573	41.220	114.634	121.328	1.00	0.00	C
ATOM	5990	O	PRO	X	573	40.454	114.912	122.180	1.00	0.00	O
ATOM	5991	N	GLY	X	574	42.069	115.497	120.797	1.00	0.00	N
ATOM	5992	H	GLY	X	574	42.715	115.192	120.084	1.00	0.00	H
ATOM	5993	CA	GLY	X	574	42.141	116.836	121.074	1.00	0.00	C
ATOM	5994	HA2	GLY	X	574	42.632	117.450	120.319	1.00	0.00	H
ATOM	5995	HA3	GLY	X	574	41.095	117.124	120.970	1.00	0.00	H
ATOM	5996	C	GLY	X	574	42.756	117.303	122.397	1.00	0.00	C
ATOM	5997	O	GLY	X	574	42.714	118.441	122.832	1.00	0.00	O
ATOM	5998	N	SER	X	575	43.409	116.391	123.098	1.00	0.00	N
ATOM	5999	H	SER	X	575	43.646	115.536	122.612	1.00	0.00	H
ATOM	6000	CA	SER	X	575	44.131	116.578	124.347	1.00	0.00	C
ATOM	6001	HA	SER	X	575	43.731	117.410	124.927	1.00	0.00	H
ATOM	6002	CB	SER	X	575	44.028	115.356	125.353	1.00	0.00	C
ATOM	6003	HB2	SER	X	575	44.486	115.598	126.313	1.00	0.00	H
ATOM	6004	HB3	SER	X	575	43.027	114.951	125.512	1.00	0.00	H
ATOM	6005	OG	SER	X	575	44.844	114.342	124.776	1.00	0.00	O
ATOM	6006	HG	SER	X	575	44.389	113.964	124.020	1.00	0.00	H
ATOM	6007	C	SER	X	575	45.570	117.052	124.190	1.00	0.00	C
ATOM	6008	O	SER	X	575	46.291	117.002	125.167	1.00	0.00	O
ATOM	6009	N	THR	X	576	45.958	117.509	122.996	1.00	0.00	N
ATOM	6010	H	THR	X	576	45.251	117.631	122.286	1.00	0.00	H
ATOM	6011	CA	THR	X	576	47.333	117.987	122.664	1.00	0.00	C
ATOM	6012	HA	THR	X	576	47.326	118.255	121.608	1.00	0.00	H
ATOM	6013	CB	THR	X	576	47.766	119.317	123.357	1.00	0.00	C
ATOM	6014	HB	THR	X	576	48.775	119.569	123.033	1.00	0.00	H
ATOM	6015	CG2	THR	X	576	47.004	120.583	122.979	1.00	0.00	C
ATOM	6016	HG21	THR	X	576	47.252	120.697	121.924	1.00	0.00	H
ATOM	6017	HG22	THR	X	576	45.947	120.505	123.234	1.00	0.00	H
ATOM	6018	HG23	THR	X	576	47.325	121.478	123.513	1.00	0.00	H
ATOM	6019	OG1	THR	X	576	47.673	119.337	124.748	1.00	0.00	O
ATOM	6020	HG1	THR	X	576	47.505	118.422	124.984	1.00	0.00	H
ATOM	6021	C	THR	X	576	48.455	116.909	122.697	1.00	0.00	C
ATOM	6022	O	THR	X	576	49.531	117.040	123.288	1.00	0.00	O
ATOM	6023	N	ALA	X	577	48.186	115.690	122.173	1.00	0.00	N
ATOM	6024	H	ALA	X	577	47.278	115.591	121.740	1.00	0.00	H
ATOM	6025	CA	ALA	X	577	49.186	114.627	121.973	1.00	0.00	C
ATOM	6026	HA	ALA	X	577	49.840	114.591	122.843	1.00	0.00	H
ATOM	6027	CB	ALA	X	577	48.393	113.288	122.003	1.00	0.00	C
ATOM	6028	HB1	ALA	X	577	48.117	112.973	120.997	1.00	0.00	H
ATOM	6029	HB2	ALA	X	577	49.019	112.608	122.580	1.00	0.00	H
ATOM	6030	HB3	ALA	X	577	47.480	113.529	122.547	1.00	0.00	H
ATOM	6031	C	ALA	X	577	50.109	114.981	120.803	1.00	0.00	C
ATOM	6032	O	ALA	X	577	49.730	115.699	119.841	1.00	0.00	O
ATOM	6033	N	PRO	X	578	51.376	114.682	120.942	1.00	0.00	N
ATOM	6034	CD	PRO	X	578	51.982	113.918	121.982	1.00	0.00	C
ATOM	6035	HD2	PRO	X	578	51.365	113.027	122.094	1.00	0.00	H
ATOM	6036	HD3	PRO	X	578	52.015	114.368	122.975	1.00	0.00	H
ATOM	6037	CG	PRO	X	578	53.436	113.510	121.582	1.00	0.00	C
ATOM	6038	HG2	PRO	X	578	53.466	112.522	121.120	1.00	0.00	H
ATOM	6039	HG3	PRO	X	578	54.129	113.612	122.417	1.00	0.00	H
ATOM	6040	CB	PRO	X	578	53.753	114.590	120.580	1.00	0.00	C
ATOM	6041	HB2	PRO	X	578	54.509	114.301	119.852	1.00	0.00	H
ATOM	6042	HB3	PRO	X	578	54.026	115.533	121.055	1.00	0.00	H
ATOM	6043	CA	PRO	X	578	52.384	114.924	119.928	1.00	0.00	C
ATOM	6044	HA	PRO	X	578	52.294	115.902	119.452	1.00	0.00	H
ATOM	6045	C	PRO	X	578	52.195	113.887	118.769	1.00	0.00	C
ATOM	6046	O	PRO	X	578	51.414	112.963	118.877	1.00	0.00	O
ATOM	6047	N	LEU	X	579	53.005	114.117	117.694	1.00	0.00	N
ATOM	6048	H	LEU	X	579	53.689	114.858	117.748	1.00	0.00	H
ATOM	6049	CA	LEU	X	579	52.937	113.332	116.459	1.00	0.00	C
ATOM	6050	HA	LEU	X	579	51.919	112.979	116.290	1.00	0.00	H
ATOM	6051	CB	LEU	X	579	53.334	114.281	115.267	1.00	0.00	C
ATOM	6052	HB2	LEU	X	579	54.308	114.759	115.378	1.00	0.00	H
ATOM	6053	HB3	LEU	X	579	53.464	113.699	114.355	1.00	0.00	H
ATOM	6054	CG	LEU	X	579	52.251	115.388	115.084	1.00	0.00	C
ATOM	6055	HG	LEU	X	579	52.052	115.850	116.052	1.00	0.00	H
ATOM	6056	CD1	LEU	X	579	52.681	116.412	113.971	1.00	0.00	C
ATOM	6057	HD11	LEU	X	579	53.703	116.767	114.108	1.00	0.00	H
ATOM	6058	HD12	LEU	X	579	52.504	115.955	112.996	1.00	0.00	H
ATOM	6059	HD13	LEU	X	579	52.000	117.248	114.132	1.00	0.00	H
ATOM	6060	CD2	LEU	X	579	50.902	114.832	114.691	1.00	0.00	C
ATOM	6061	HD21	LEU	X	579	50.274	115.628	114.288	1.00	0.00	H
ATOM	6062	HD22	LEU	X	579	50.984	114.135	113.856	1.00	0.00	H
ATOM	6063	HD23	LEU	X	579	50.444	114.349	115.554	1.00	0.00	H
ATOM	6064	C	LEU	X	579	53.909	112.103	116.417	1.00	0.00	C
ATOM	6065	O	LEU	X	579	55.046	112.155	116.863	1.00	0.00	O
ATOM	6066	N	GLU	X	580	53.336	111.025	115.909	1.00	0.00	N

ATOM	6067	H	GLU	X	580	52.338	111.090	115.771	1.00	0.00	H
ATOM	6068	CA	GLU	X	580	53.948	109.727	115.680	1.00	0.00	C
ATOM	6069	HA	GLU	X	580	55.019	109.926	115.646	1.00	0.00	H
ATOM	6070	CB	GLU	X	580	53.676	108.851	116.892	1.00	0.00	C
ATOM	6071	HB2	GLU	X	580	54.191	107.906	116.711	1.00	0.00	H
ATOM	6072	HB3	GLU	X	580	54.161	109.352	117.729	1.00	0.00	H
ATOM	6073	CG	GLU	X	580	52.173	108.574	117.161	1.00	0.00	C
ATOM	6074	HG2	GLU	X	580	51.685	109.474	117.533	1.00	0.00	H
ATOM	6075	HG3	GLU	X	580	51.631	108.418	116.229	1.00	0.00	H
ATOM	6076	CD	GLU	X	580	51.966	107.330	117.986	1.00	0.00	C
ATOM	6077	OE1	GLU	X	580	51.139	106.475	117.744	1.00	0.00	O
ATOM	6078	OE2	GLU	X	580	52.740	107.088	118.938	1.00	0.00	O
ATOM	6079	C	GLU	X	580	53.405	109.071	114.438	1.00	0.00	C
ATOM	6080	O	GLU	X	580	52.528	109.676	113.808	1.00	0.00	O
ATOM	6081	N	PHE	X	581	54.029	108.008	113.930	1.00	0.00	N
ATOM	6082	H	PHE	X	581	54.799	107.732	114.522	1.00	0.00	H
ATOM	6083	CA	PHE	X	581	53.788	107.382	112.598	1.00	0.00	C
ATOM	6084	HA	PHE	X	581	53.552	108.153	111.864	1.00	0.00	H
ATOM	6085	CB	PHE	X	581	54.878	106.473	112.118	1.00	0.00	C
ATOM	6086	HB2	PHE	X	581	55.551	106.278	112.953	1.00	0.00	H
ATOM	6087	HB3	PHE	X	581	54.427	105.572	111.704	1.00	0.00	H
ATOM	6088	CG	PHE	X	581	55.694	107.129	110.995	1.00	0.00	C
ATOM	6089	CD1	PHE	X	581	55.292	107.024	109.637	1.00	0.00	C
ATOM	6090	HD1	PHE	X	581	54.378	106.558	109.299	1.00	0.00	H
ATOM	6091	CE1	PHE	X	581	55.942	107.833	108.658	1.00	0.00	C
ATOM	6092	HE1	PHE	X	581	55.578	107.908	107.645	1.00	0.00	H
ATOM	6093	CZ	PHE	X	581	57.017	108.657	108.998	1.00	0.00	C
ATOM	6094	HZ	PHE	X	581	57.321	109.426	108.303	1.00	0.00	H
ATOM	6095	CE2	PHE	X	581	57.456	108.730	110.289	1.00	0.00	C
ATOM	6096	HE2	PHE	X	581	58.103	109.564	110.516	1.00	0.00	H
ATOM	6097	CD2	PHE	X	581	56.834	107.967	111.287	1.00	0.00	C
ATOM	6098	HD2	PHE	X	581	57.125	108.145	112.313	1.00	0.00	H
ATOM	6099	C	PHE	X	581	52.403	106.645	112.645	1.00	0.00	C
ATOM	6100	O	PHE	X	581	51.823	106.236	113.677	1.00	0.00	O
ATOM	6101	N	LEU	X	582	51.741	106.543	111.460	1.00	0.00	N
ATOM	6102	H	LEU	X	582	52.008	107.094	110.657	1.00	0.00	H
ATOM	6103	CA	LEU	X	582	50.509	105.688	111.314	1.00	0.00	C
ATOM	6104	HA	LEU	X	582	49.824	105.955	112.118	1.00	0.00	H
ATOM	6105	CB	LEU	X	582	49.788	106.082	109.991	1.00	0.00	C
ATOM	6106	HB2	LEU	X	582	49.686	107.168	109.972	1.00	0.00	H
ATOM	6107	HB3	LEU	X	582	50.419	105.855	109.133	1.00	0.00	H
ATOM	6108	CG	LEU	X	582	48.457	105.296	109.889	1.00	0.00	C
ATOM	6109	HG	LEU	X	582	48.557	104.212	109.928	1.00	0.00	H
ATOM	6110	CD1	LEU	X	582	47.455	105.713	110.934	1.00	0.00	C
ATOM	6111	HD11	LEU	X	582	46.561	105.094	111.020	1.00	0.00	H
ATOM	6112	HD12	LEU	X	582	47.895	105.727	111.930	1.00	0.00	H
ATOM	6113	HD13	LEU	X	582	47.057	106.700	110.700	1.00	0.00	H
ATOM	6114	CD2	LEU	X	582	47.860	105.581	108.505	1.00	0.00	C
ATOM	6115	HD21	LEU	X	582	46.975	104.958	108.372	1.00	0.00	H
ATOM	6116	HD22	LEU	X	582	47.536	106.609	108.351	1.00	0.00	H
ATOM	6117	HD23	LEU	X	582	48.540	105.279	107.709	1.00	0.00	H
ATOM	6118	C	LEU	X	582	50.787	104.158	111.399	1.00	0.00	C
ATOM	6119	O	LEU	X	582	50.058	103.471	112.064	1.00	0.00	O
ATOM	6120	N	HIE	X	583	51.899	103.752	110.812	1.00	0.00	N
ATOM	6121	H	HIE	X	583	52.541	104.398	110.376	1.00	0.00	H
ATOM	6122	CA	HIE	X	583	52.482	102.407	111.022	1.00	0.00	C
ATOM	6123	HA	HIE	X	583	52.397	102.183	112.086	1.00	0.00	H
ATOM	6124	CB	HIE	X	583	51.596	101.348	110.321	1.00	0.00	C
ATOM	6125	HB2	HIE	X	583	50.522	101.504	110.405	1.00	0.00	H
ATOM	6126	HB3	HIE	X	583	51.719	101.456	109.243	1.00	0.00	H
ATOM	6127	CG	HIE	X	583	51.865	99.908	110.602	1.00	0.00	C
ATOM	6128	ND1	HIE	X	583	53.050	99.199	110.391	1.00	0.00	N
ATOM	6129	CE1	HIE	X	583	52.801	97.923	110.781	1.00	0.00	C
ATOM	6130	HE1	HIE	X	583	53.442	97.057	110.696	1.00	0.00	H
ATOM	6131	NE2	HIE	X	583	51.628	97.842	111.380	1.00	0.00	N
ATOM	6132	HE2	HIE	X	583	51.182	96.994	111.696	1.00	0.00	H
ATOM	6133	CD2	HIE	X	583	50.972	99.077	111.200	1.00	0.00	C
ATOM	6134	HD2	HIE	X	583	49.979	99.286	111.568	1.00	0.00	H
ATOM	6135	C	HIE	X	583	53.953	102.383	110.544	1.00	0.00	C
ATOM	6136	O	HIE	X	583	54.338	103.191	109.779	1.00	0.00	O
ATOM	6137	N	ILE	X	584	54.828	101.495	111.036	1.00	0.00	N
ATOM	6138	H	ILE	X	584	54.517	100.749	111.641	1.00	0.00	H
ATOM	6139	CA	ILE	X	584	56.274	101.389	110.760	1.00	0.00	C
ATOM	6140	HA	ILE	X	584	56.572	102.388	111.080	1.00	0.00	H
ATOM	6141	CB	ILE	X	584	56.879	100.360	111.697	1.00	0.00	C
ATOM	6142	HB	ILE	X	584	56.695	100.661	112.727	1.00	0.00	H
ATOM	6143	CG2	ILE	X	584	56.440	98.934	111.409	1.00	0.00	C
ATOM	6144	HG21	ILE	X	584	56.818	98.470	110.498	1.00	0.00	H
ATOM	6145	HG22	ILE	X	584	56.745	98.391	112.304	1.00	0.00	H
ATOM	6146	HG23	ILE	X	584	55.350	98.947	111.422	1.00	0.00	H
ATOM	6147	CG1	ILE	X	584	58.393	100.457	111.609	1.00	0.00	C
ATOM	6148	HG12	ILE	X	584	58.783	99.601	112.161	1.00	0.00	H

ATOM	6149	HG13	ILE	X	584	58.762	100.292	110.597	1.00	0.00	H
ATOM	6150	CD1	ILE	X	584	58.951	101.736	112.167	1.00	0.00	C
ATOM	6151	HD11	ILE	X	584	58.670	102.570	111.523	1.00	0.00	H
ATOM	6152	HD12	ILE	X	584	58.558	101.962	113.158	1.00	0.00	H
ATOM	6153	HD13	ILE	X	584	60.037	101.707	112.081	1.00	0.00	H
ATOM	6154	C	ILE	X	584	56.540	101.131	109.253	1.00	0.00	C
ATOM	6155	O	ILE	X	584	57.406	101.731	108.677	1.00	0.00	O
ATOM	6156	N	THR	X	585	55.689	100.345	108.585	1.00	0.00	N
ATOM	6157	H	THR	X	585	54.919	100.037	109.163	1.00	0.00	H
ATOM	6158	CA	THR	X	585	55.753	100.136	107.127	1.00	0.00	C
ATOM	6159	HA	THR	X	585	56.737	99.780	106.821	1.00	0.00	H
ATOM	6160	CB	THR	X	585	54.609	99.044	106.767	1.00	0.00	C
ATOM	6161	HB	THR	X	585	54.534	99.083	105.681	1.00	0.00	H
ATOM	6162	CG2	THR	X	585	54.884	97.634	107.281	1.00	0.00	C
ATOM	6163	HG21	THR	X	585	54.407	96.832	106.717	1.00	0.00	H
ATOM	6164	HG22	THR	X	585	55.955	97.451	107.375	1.00	0.00	H
ATOM	6165	HG23	THR	X	585	54.574	97.659	108.325	1.00	0.00	H
ATOM	6166	OG1	THR	X	585	53.356	99.571	107.362	1.00	0.00	O
ATOM	6167	HG1	THR	X	585	52.629	99.281	106.806	1.00	0.00	H
ATOM	6168	C	THR	X	585	55.408	101.492	106.360	1.00	0.00	C
ATOM	6169	O	THR	X	585	55.838	101.530	105.245	1.00	0.00	O
ATOM	6170	N	PHE	X	586	54.746	102.491	106.966	1.00	0.00	N
ATOM	6171	H	PHE	X	586	54.419	102.303	107.902	1.00	0.00	H
ATOM	6172	CA	PHE	X	586	54.638	103.851	106.401	1.00	0.00	C
ATOM	6173	HA	PHE	X	586	54.569	103.670	105.327	1.00	0.00	H
ATOM	6174	CB	PHE	X	586	53.321	104.585	106.678	1.00	0.00	C
ATOM	6175	HB2	PHE	X	586	53.261	104.827	107.738	1.00	0.00	H
ATOM	6176	HB3	PHE	X	586	53.538	105.586	106.302	1.00	0.00	H
ATOM	6177	CG	PHE	X	586	52.056	103.951	106.169	1.00	0.00	C
ATOM	6178	CD1	PHE	X	586	50.982	103.647	107.038	1.00	0.00	C
ATOM	6179	HD1	PHE	X	586	51.217	103.798	108.082	1.00	0.00	H
ATOM	6180	CE1	PHE	X	586	49.710	103.191	106.570	1.00	0.00	C
ATOM	6181	HE1	PHE	X	586	48.965	103.032	107.335	1.00	0.00	H
ATOM	6182	CZ	PHE	X	586	49.479	103.035	105.165	1.00	0.00	C
ATOM	6183	HZ	PHE	X	586	48.481	102.768	104.851	1.00	0.00	H
ATOM	6184	CE2	PHE	X	586	50.530	103.431	104.324	1.00	0.00	C
ATOM	6185	HE2	PHE	X	586	50.295	103.402	103.270	1.00	0.00	H
ATOM	6186	CD2	PHE	X	586	51.781	103.883	104.799	1.00	0.00	C
ATOM	6187	HD2	PHE	X	586	52.521	104.260	104.109	1.00	0.00	H
ATOM	6188	C	PHE	X	586	55.896	104.743	106.636	1.00	0.00	C
ATOM	6189	O	PHE	X	586	56.268	105.474	105.648	1.00	0.00	O
ATOM	6190	N	GLN	X	587	56.596	104.585	107.781	1.00	0.00	N
ATOM	6191	H	GLN	X	587	56.265	103.973	108.513	1.00	0.00	H
ATOM	6192	CA	GLN	X	587	57.967	105.063	107.846	1.00	0.00	C
ATOM	6193	HA	GLN	X	587	57.985	106.125	107.605	1.00	0.00	H
ATOM	6194	CB	GLN	X	587	58.471	104.909	109.316	1.00	0.00	C
ATOM	6195	HB2	GLN	X	587	57.688	105.239	110.000	1.00	0.00	H
ATOM	6196	HB3	GLN	X	587	58.510	103.840	109.520	1.00	0.00	H
ATOM	6197	CG	GLN	X	587	59.805	105.614	109.607	1.00	0.00	C
ATOM	6198	HG2	GLN	X	587	60.699	105.059	109.322	1.00	0.00	H
ATOM	6199	HG3	GLN	X	587	59.892	106.583	109.116	1.00	0.00	H
ATOM	6200	CD	GLN	X	587	59.930	105.917	111.133	1.00	0.00	C
ATOM	6201	OE1	GLN	X	587	59.376	105.178	111.939	1.00	0.00	O
ATOM	6202	NE2	GLN	X	587	60.682	106.930	111.604	1.00	0.00	N
ATOM	6203	HE21	GLN	X	587	60.833	106.935	112.603	1.00	0.00	H
ATOM	6204	HE22	GLN	X	587	61.389	107.345	111.013	1.00	0.00	H
ATOM	6205	C	GLN	X	587	58.912	104.468	106.766	1.00	0.00	C
ATOM	6206	O	GLN	X	587	59.585	105.213	106.112	1.00	0.00	O
ATOM	6207	N	CYS	X	588	58.926	103.173	106.660	1.00	0.00	N
ATOM	6208	H	CYS	X	588	58.329	102.621	107.259	1.00	0.00	H
ATOM	6209	CA	CYS	X	588	59.703	102.438	105.686	1.00	0.00	C
ATOM	6210	HA	CYS	X	588	60.769	102.636	105.797	1.00	0.00	H
ATOM	6211	CB	CYS	X	588	59.532	100.948	105.994	1.00	0.00	C
ATOM	6212	HB2	CYS	X	588	58.463	100.747	106.072	1.00	0.00	H
ATOM	6213	HB3	CYS	X	588	59.968	100.415	105.151	1.00	0.00	H
ATOM	6214	SG	CYS	X	588	60.323	100.600	107.503	1.00	0.00	S
ATOM	6215	HG	CYS	X	588	59.536	101.050	108.483	1.00	0.00	H
ATOM	6216	C	CYS	X	588	59.419	102.630	104.205	1.00	0.00	C
ATOM	6217	O	CYS	X	588	60.285	102.647	103.337	1.00	0.00	O
ATOM	6218	N	PHE	X	589	58.149	102.837	103.893	1.00	0.00	N
ATOM	6219	H	PHE	X	589	57.455	102.863	104.627	1.00	0.00	H
ATOM	6220	CA	PHE	X	589	57.727	103.294	102.558	1.00	0.00	C
ATOM	6221	HA	PHE	X	589	58.152	102.623	101.812	1.00	0.00	H
ATOM	6222	CB	PHE	X	589	56.229	103.251	102.501	1.00	0.00	C
ATOM	6223	HB2	PHE	X	589	55.956	102.210	102.674	1.00	0.00	H
ATOM	6224	HB3	PHE	X	589	55.812	103.713	103.395	1.00	0.00	H
ATOM	6225	CG	PHE	X	589	55.482	103.787	101.305	1.00	0.00	C
ATOM	6226	CD1	PHE	X	589	55.473	103.067	100.100	1.00	0.00	C
ATOM	6227	HD1	PHE	X	589	56.186	102.275	99.925	1.00	0.00	H
ATOM	6228	CE1	PHE	X	589	54.673	103.461	98.988	1.00	0.00	C
ATOM	6229	HE1	PHE	X	589	54.672	103.015	98.004	1.00	0.00	H
ATOM	6230	CZ	PHE	X	589	53.765	104.512	99.199	1.00	0.00	C

ATOM	6231	HZ	PHE	X	589	53.157	104.837	98.369	1.00	0.00	H
ATOM	6232	CE2	PHE	X	589	53.800	105.290	100.376	1.00	0.00	C
ATOM	6233	HE2	PHE	X	589	53.337	106.265	100.410	1.00	0.00	H
ATOM	6234	CD2	PHE	X	589	54.587	104.857	101.420	1.00	0.00	C
ATOM	6235	HD2	PHE	X	589	54.661	105.437	102.328	1.00	0.00	H
ATOM	6236	C	PHE	X	589	58.176	104.710	102.238	1.00	0.00	C
ATOM	6237	O	PHE	X	589	58.770	104.883	101.135	1.00	0.00	O
ATOM	6238	N	LEU	X	590	58.096	105.664	103.137	1.00	0.00	N
ATOM	6239	H	LEU	X	590	57.554	105.561	103.983	1.00	0.00	H
ATOM	6240	CA	LEU	X	590	58.489	107.050	102.781	1.00	0.00	C
ATOM	6241	HA	LEU	X	590	58.157	107.223	101.757	1.00	0.00	H
ATOM	6242	CB	LEU	X	590	57.788	108.101	103.614	1.00	0.00	C
ATOM	6243	HB2	LEU	X	590	57.828	107.788	104.658	1.00	0.00	H
ATOM	6244	HB3	LEU	X	590	58.354	109.023	103.740	1.00	0.00	H
ATOM	6245	CG	LEU	X	590	56.358	108.325	103.063	1.00	0.00	C
ATOM	6246	HG	LEU	X	590	55.912	107.380	102.753	1.00	0.00	H
ATOM	6247	CD1	LEU	X	590	55.460	109.009	104.098	1.00	0.00	C
ATOM	6248	HD11	LEU	X	590	55.983	109.805	104.629	1.00	0.00	H
ATOM	6249	HD12	LEU	X	590	54.673	109.590	103.616	1.00	0.00	H
ATOM	6250	HD13	LEU	X	590	55.094	108.209	104.741	1.00	0.00	H
ATOM	6251	CD2	LEU	X	590	56.307	109.316	101.869	1.00	0.00	C
ATOM	6252	HD21	LEU	X	590	56.886	110.197	102.150	1.00	0.00	H
ATOM	6253	HD22	LEU	X	590	56.620	108.897	100.913	1.00	0.00	H
ATOM	6254	HD23	LEU	X	590	55.234	109.398	101.691	1.00	0.00	H
ATOM	6255	C	LEU	X	590	60.026	107.219	102.693	1.00	0.00	C
ATOM	6256	O	LEU	X	590	60.491	107.900	101.758	1.00	0.00	O
ATOM	6257	N	ALA	X	591	60.803	106.596	103.545	1.00	0.00	N
ATOM	6258	H	ALA	X	591	60.289	106.119	104.274	1.00	0.00	H
ATOM	6259	CA	ALA	X	591	62.286	106.601	103.555	1.00	0.00	C
ATOM	6260	HA	ALA	X	591	62.708	107.600	103.650	1.00	0.00	H
ATOM	6261	CB	ALA	X	591	62.788	105.776	104.834	1.00	0.00	C
ATOM	6262	HB1	ALA	X	591	63.776	105.424	104.543	1.00	0.00	H
ATOM	6263	HB2	ALA	X	591	62.802	106.445	105.696	1.00	0.00	H
ATOM	6264	HB3	ALA	X	591	62.279	104.820	104.954	1.00	0.00	H
ATOM	6265	C	ALA	X	591	62.844	105.989	102.246	1.00	0.00	C
ATOM	6266	O	ALA	X	591	63.878	106.411	101.719	1.00	0.00	O
ATOM	6267	N	ALA	X	592	62.206	104.860	101.777	1.00	0.00	N
ATOM	6268	H	ALA	X	592	61.533	104.460	102.414	1.00	0.00	H
ATOM	6269	CA	ALA	X	592	62.542	104.206	100.567	1.00	0.00	C
ATOM	6270	HA	ALA	X	592	63.607	103.977	100.515	1.00	0.00	H
ATOM	6271	CB	ALA	X	592	61.778	102.926	100.373	1.00	0.00	C
ATOM	6272	HB1	ALA	X	592	62.089	102.221	101.144	1.00	0.00	H
ATOM	6273	HB2	ALA	X	592	60.709	103.103	100.496	1.00	0.00	H
ATOM	6274	HB3	ALA	X	592	61.964	102.449	99.411	1.00	0.00	H
ATOM	6275	C	ALA	X	592	62.359	105.245	99.415	1.00	0.00	C
ATOM	6276	O	ALA	X	592	63.294	105.495	98.698	1.00	0.00	O
ATOM	6277	N	PHE	X	593	61.160	105.942	99.305	1.00	0.00	N
ATOM	6278	H	PHE	X	593	60.406	105.815	99.965	1.00	0.00	H
ATOM	6279	CA	PHE	X	593	60.916	106.964	98.301	1.00	0.00	C
ATOM	6280	HA	PHE	X	593	61.090	106.597	97.289	1.00	0.00	H
ATOM	6281	CB	PHE	X	593	59.376	107.349	98.421	1.00	0.00	C
ATOM	6282	HB2	PHE	X	593	58.816	106.511	98.838	1.00	0.00	H
ATOM	6283	HB3	PHE	X	593	59.228	108.119	99.178	1.00	0.00	H
ATOM	6284	CG	PHE	X	593	58.752	107.840	97.177	1.00	0.00	C
ATOM	6285	CD1	PHE	X	593	57.558	107.253	96.700	1.00	0.00	C
ATOM	6286	HD1	PHE	X	593	57.306	106.349	97.235	1.00	0.00	H
ATOM	6287	CE1	PHE	X	593	56.781	107.812	95.651	1.00	0.00	C
ATOM	6288	HE1	PHE	X	593	55.846	107.367	95.342	1.00	0.00	H
ATOM	6289	CZ	PHE	X	593	57.212	109.065	95.050	1.00	0.00	C
ATOM	6290	HZ	PHE	X	593	56.640	109.563	94.281	1.00	0.00	H
ATOM	6291	CE2	PHE	X	593	58.330	109.579	95.588	1.00	0.00	C
ATOM	6292	HE2	PHE	X	593	58.597	110.548	95.194	1.00	0.00	H
ATOM	6293	CD2	PHE	X	593	59.105	109.084	96.691	1.00	0.00	C
ATOM	6294	HD2	PHE	X	593	59.959	109.567	97.141	1.00	0.00	H
ATOM	6295	C	PHE	X	593	61.916	108.139	98.379	1.00	0.00	C
ATOM	6296	O	PHE	X	593	62.299	108.659	97.310	1.00	0.00	O
ATOM	6297	N	TYR	X	594	62.359	108.483	99.584	1.00	0.00	N
ATOM	6298	H	TYR	X	594	62.076	107.938	100.385	1.00	0.00	H
ATOM	6299	CA	TYR	X	594	63.439	109.503	99.729	1.00	0.00	C
ATOM	6300	HA	TYR	X	594	63.178	110.416	99.194	1.00	0.00	H
ATOM	6301	CB	TYR	X	594	63.525	109.972	101.175	1.00	0.00	C
ATOM	6302	HB2	TYR	X	594	62.634	110.508	101.501	1.00	0.00	H
ATOM	6303	HB3	TYR	X	594	63.639	109.059	101.762	1.00	0.00	H
ATOM	6304	CG	TYR	X	594	64.701	110.880	101.457	1.00	0.00	C
ATOM	6305	CD1	TYR	X	594	64.636	112.257	101.195	1.00	0.00	C
ATOM	6306	HD1	TYR	X	594	63.732	112.650	100.754	1.00	0.00	H
ATOM	6307	CE1	TYR	X	594	65.733	113.134	101.380	1.00	0.00	C
ATOM	6308	HE1	TYR	X	594	65.612	114.180	101.147	1.00	0.00	H
ATOM	6309	CZ	TYR	X	594	66.864	112.645	102.016	1.00	0.00	C
ATOM	6310	OH	TYR	X	594	67.834	113.439	102.308	1.00	0.00	O
ATOM	6311	HH	TYR	X	594	67.654	114.328	101.992	1.00	0.00	H
ATOM	6312	CE2	TYR	X	594	66.983	111.324	102.324	1.00	0.00	C

ATOM	6313	HE2	TYR	X	594	67.859	111.002	102.868	1.00	0.00	H
ATOM	6314	CD2	TYR	X	594	65.873	110.404	102.067	1.00	0.00	C
ATOM	6315	HD2	TYR	X	594	66.053	109.350	102.216	1.00	0.00	H
ATOM	6316	C	TYR	X	594	64.825	109.033	99.120	1.00	0.00	C
ATOM	6317	O	TYR	X	594	65.416	109.751	98.282	1.00	0.00	O
ATOM	6318	N	LEU	X	595	65.261	107.776	99.368	1.00	0.00	N
ATOM	6319	H	LEU	X	595	64.687	107.203	99.970	1.00	0.00	H
ATOM	6320	CA	LEU	X	595	66.406	107.056	98.731	1.00	0.00	C
ATOM	6321	HA	LEU	X	595	67.318	107.653	98.738	1.00	0.00	H
ATOM	6322	CB	LEU	X	595	66.533	105.753	99.508	1.00	0.00	C
ATOM	6323	HB2	LEU	X	595	65.645	105.122	99.475	1.00	0.00	H
ATOM	6324	HB3	LEU	X	595	67.298	105.160	99.010	1.00	0.00	H
ATOM	6325	CG	LEU	X	595	66.880	106.052	100.993	1.00	0.00	C
ATOM	6326	HG	LEU	X	595	66.142	106.685	101.486	1.00	0.00	H
ATOM	6327	CD1	LEU	X	595	66.639	104.598	101.524	1.00	0.00	C
ATOM	6328	HD11	LEU	X	595	67.206	103.923	100.882	1.00	0.00	H
ATOM	6329	HD12	LEU	X	595	67.044	104.497	102.530	1.00	0.00	H
ATOM	6330	HD13	LEU	X	595	65.560	104.448	101.486	1.00	0.00	H
ATOM	6331	CD2	LEU	X	595	68.366	106.350	101.255	1.00	0.00	C
ATOM	6332	HD21	LEU	X	595	68.678	106.232	102.292	1.00	0.00	H
ATOM	6333	HD22	LEU	X	595	69.015	105.883	100.512	1.00	0.00	H
ATOM	6334	HD23	LEU	X	595	68.561	107.410	101.102	1.00	0.00	H
ATOM	6335	C	LEU	X	595	66.223	106.725	97.189	1.00	0.00	C
ATOM	6336	O	LEU	X	595	67.227	106.536	96.538	1.00	0.00	O
ATOM	6337	N	VAL	X	596	65.087	106.897	96.521	1.00	0.00	N
ATOM	6338	H	VAL	X	596	64.334	107.072	97.173	1.00	0.00	H
ATOM	6339	CA	VAL	X	596	64.859	107.023	95.140	1.00	0.00	C
ATOM	6340	HA	VAL	X	596	65.536	106.308	94.671	1.00	0.00	H
ATOM	6341	CB	VAL	X	596	63.527	106.449	94.654	1.00	0.00	C
ATOM	6342	HB	VAL	X	596	62.647	107.007	94.972	1.00	0.00	H
ATOM	6343	CG1	VAL	X	596	63.486	106.417	93.154	1.00	0.00	C
ATOM	6344	HG11	VAL	X	596	62.564	106.006	92.744	1.00	0.00	H
ATOM	6345	HG12	VAL	X	596	63.667	107.429	92.792	1.00	0.00	H
ATOM	6346	HG13	VAL	X	596	64.197	105.650	92.844	1.00	0.00	H
ATOM	6347	CG2	VAL	X	596	63.326	104.967	95.118	1.00	0.00	C
ATOM	6348	HG21	VAL	X	596	63.246	105.041	96.201	1.00	0.00	H
ATOM	6349	HG22	VAL	X	596	62.482	104.509	94.601	1.00	0.00	H
ATOM	6350	HG23	VAL	X	596	64.219	104.433	94.792	1.00	0.00	H
ATOM	6351	C	VAL	X	596	65.073	108.449	94.590	1.00	0.00	C
ATOM	6352	O	VAL	X	596	65.877	108.672	93.650	1.00	0.00	O
ATOM	6353	N	LEU	X	597	64.353	109.404	95.209	1.00	0.00	N
ATOM	6354	H	LEU	X	597	63.688	109.127	95.916	1.00	0.00	H
ATOM	6355	CA	LEU	X	597	64.278	110.777	94.667	1.00	0.00	C
ATOM	6356	HA	LEU	X	597	64.638	110.728	93.640	1.00	0.00	H
ATOM	6357	CB	LEU	X	597	62.795	111.237	94.716	1.00	0.00	C
ATOM	6358	HB2	LEU	X	597	62.174	110.673	95.410	1.00	0.00	H
ATOM	6359	HB3	LEU	X	597	62.880	112.314	94.865	1.00	0.00	H
ATOM	6360	CG	LEU	X	597	61.943	111.066	93.420	1.00	0.00	C
ATOM	6361	HG	LEU	X	597	60.934	111.449	93.573	1.00	0.00	H
ATOM	6362	CD1	LEU	X	597	62.562	112.039	92.422	1.00	0.00	C
ATOM	6363	HD11	LEU	X	597	63.564	111.686	92.181	1.00	0.00	H
ATOM	6364	HD12	LEU	X	597	61.947	112.026	91.522	1.00	0.00	H
ATOM	6365	HD13	LEU	X	597	62.646	113.059	92.796	1.00	0.00	H
ATOM	6366	CD2	LEU	X	597	61.835	109.702	92.785	1.00	0.00	C
ATOM	6367	HD21	LEU	X	597	61.488	109.009	93.552	1.00	0.00	H
ATOM	6368	HD22	LEU	X	597	61.098	109.821	91.991	1.00	0.00	H
ATOM	6369	HD23	LEU	X	597	62.819	109.367	92.459	1.00	0.00	H
ATOM	6370	C	LEU	X	597	65.271	111.940	95.138	1.00	0.00	C
ATOM	6371	O	LEU	X	597	65.269	112.915	94.388	1.00	0.00	O
ATOM	6372	N	SER	X	598	65.924	111.868	96.305	1.00	0.00	N
ATOM	6373	H	SER	X	598	65.656	111.084	96.880	1.00	0.00	H
ATOM	6374	CA	SER	X	598	66.728	112.969	96.816	1.00	0.00	C
ATOM	6375	HA	SER	X	598	66.159	113.897	96.863	1.00	0.00	H
ATOM	6376	CB	SER	X	598	67.145	112.752	98.305	1.00	0.00	C
ATOM	6377	HB2	SER	X	598	66.285	112.701	98.973	1.00	0.00	H
ATOM	6378	HB3	SER	X	598	67.742	111.849	98.432	1.00	0.00	H
ATOM	6379	OG	SER	X	598	67.990	113.880	98.672	1.00	0.00	O
ATOM	6380	HG	SER	X	598	67.353	114.587	98.804	1.00	0.00	H
ATOM	6381	C	SER	X	598	68.001	113.130	95.949	1.00	0.00	C
ATOM	6382	O	SER	X	598	68.600	112.077	95.655	1.00	0.00	O
ATOM	6383	N	THR	X	599	68.362	114.319	95.490	1.00	0.00	N
ATOM	6384	H	THR	X	599	67.921	115.180	95.781	1.00	0.00	H
ATOM	6385	CA	THR	X	599	69.670	114.585	94.812	1.00	0.00	C
ATOM	6386	HA	THR	X	599	69.798	113.708	94.176	1.00	0.00	H
ATOM	6387	CB	THR	X	599	69.578	115.874	93.981	1.00	0.00	C
ATOM	6388	HB	THR	X	599	69.559	116.752	94.626	1.00	0.00	H
ATOM	6389	CG2	THR	X	599	70.617	115.910	92.833	1.00	0.00	C
ATOM	6390	HG21	THR	X	599	70.668	116.861	92.303	1.00	0.00	H
ATOM	6391	HG22	THR	X	599	71.614	115.777	93.252	1.00	0.00	H
ATOM	6392	HG23	THR	X	599	70.397	115.057	92.192	1.00	0.00	H
ATOM	6393	OG1	THR	X	599	68.330	115.891	93.318	1.00	0.00	O
ATOM	6394	HG1	THR	X	599	67.579	116.023	93.900	1.00	0.00	H

ATOM	6395	C	THR	X	599	70.853	114.646	95.757	1.00	0.00		C
ATOM	6396	O	THR	X	599	71.995	114.528	95.274	1.00	0.00		O
ATOM	6397	N	ASP	X	600	70.716	114.782	97.057	1.00	0.00		N
ATOM	6398	H	ASP	X	600	69.797	114.845	97.472	1.00	0.00		H
ATOM	6399	CA	ASP	X	600	71.746	114.921	98.071	1.00	0.00		C
ATOM	6400	HA	ASP	X	600	72.565	115.474	97.612	1.00	0.00		H
ATOM	6401	CB	ASP	X	600	71.176	115.787	99.171	1.00	0.00		C
ATOM	6402	HB2	ASP	X	600	70.214	115.464	99.565	1.00	0.00		H
ATOM	6403	HB3	ASP	X	600	71.801	115.753	100.064	1.00	0.00		H
ATOM	6404	CG	ASP	X	600	71.000	117.208	98.816	1.00	0.00		C
ATOM	6405	OD1	ASP	X	600	71.099	117.615	97.636	1.00	0.00		O
ATOM	6406	OD2	ASP	X	600	70.689	118.014	99.739	1.00	0.00		O
ATOM	6407	C	ASP	X	600	72.205	113.554	98.642	1.00	0.00		C
ATOM	6408	O	ASP	X	600	73.203	113.397	99.354	1.00	0.00		O
ATOM	6409	N	VAL	X	601	71.435	112.525	98.338	1.00	0.00		N
ATOM	6410	H	VAL	X	601	70.612	112.634	97.763	1.00	0.00		H
ATOM	6411	CA	VAL	X	601	71.719	111.087	98.668	1.00	0.00		C
ATOM	6412	HA	VAL	X	601	72.288	111.134	99.597	1.00	0.00		H
ATOM	6413	CB	VAL	X	601	70.445	110.315	98.924	1.00	0.00		C
ATOM	6414	HB	VAL	X	601	69.821	110.513	98.053	1.00	0.00		H
ATOM	6415	CG1	VAL	X	601	70.535	108.787	98.923	1.00	0.00		C
ATOM	6416	HG11	VAL	X	601	71.202	108.455	99.718	1.00	0.00		H
ATOM	6417	HG12	VAL	X	601	69.534	108.384	99.069	1.00	0.00		H
ATOM	6418	HG13	VAL	X	601	70.836	108.362	97.966	1.00	0.00		H
ATOM	6419	CG2	VAL	X	601	69.796	110.768	100.202	1.00	0.00		C
ATOM	6420	HG21	VAL	X	601	68.742	110.492	100.224	1.00	0.00		H
ATOM	6421	HG22	VAL	X	601	70.432	110.431	101.021	1.00	0.00		H
ATOM	6422	HG23	VAL	X	601	69.694	111.850	100.286	1.00	0.00		H
ATOM	6423	C	VAL	X	601	72.547	110.488	97.475	1.00	0.00		C
ATOM	6424	O	VAL	X	601	72.162	110.625	96.336	1.00	0.00		O
ATOM	6425	N	PRO	X	602	73.694	109.852	97.834	1.00	0.00		N
ATOM	6426	CD	PRO	X	602	74.320	109.736	99.125	1.00	0.00		C
ATOM	6427	HD2	PRO	X	602	73.798	109.027	99.770	1.00	0.00		H
ATOM	6428	HD3	PRO	X	602	74.358	110.692	99.646	1.00	0.00		H
ATOM	6429	CG	PRO	X	602	75.763	109.280	98.933	1.00	0.00		C
ATOM	6430	HG2	PRO	X	602	76.031	108.307	99.346	1.00	0.00		H
ATOM	6431	HG3	PRO	X	602	76.470	109.935	99.440	1.00	0.00		H
ATOM	6432	CB	PRO	X	602	75.896	109.245	97.405	1.00	0.00		C
ATOM	6433	HB2	PRO	X	602	76.480	108.415	97.010	1.00	0.00		H
ATOM	6434	HB3	PRO	X	602	76.250	110.214	97.047	1.00	0.00		H
ATOM	6435	CA	PRO	X	602	74.474	109.135	96.811	1.00	0.00		C
ATOM	6436	HA	PRO	X	602	74.543	109.690	95.875	1.00	0.00		H
ATOM	6437	C	PRO	X	602	74.170	107.638	96.547	1.00	0.00		C
ATOM	6438	O	PRO	X	602	73.699	106.929	97.440	1.00	0.00		O
ATOM	6439	N	THR	X	603	74.339	107.205	95.288	1.00	0.00		N
ATOM	6440	H	THR	X	603	74.807	107.835	94.653	1.00	0.00		H
ATOM	6441	CA	THR	X	603	73.730	105.920	94.822	1.00	0.00		C
ATOM	6442	HA	THR	X	603	72.655	106.006	94.974	1.00	0.00		H
ATOM	6443	CB	THR	X	603	74.019	105.653	93.291	1.00	0.00		C
ATOM	6444	HB	THR	X	603	75.058	105.544	92.979	1.00	0.00		H
ATOM	6445	CG2	THR	X	603	73.450	104.341	92.760	1.00	0.00		C
ATOM	6446	HG21	THR	X	603	73.814	104.129	91.754	1.00	0.00		H
ATOM	6447	HG22	THR	X	603	73.516	103.487	93.434	1.00	0.00		H
ATOM	6448	HG23	THR	X	603	72.363	104.405	92.718	1.00	0.00		H
ATOM	6449	OG1	THR	X	603	73.353	106.685	92.618	1.00	0.00		O
ATOM	6450	HG1	THR	X	603	73.855	107.499	92.703	1.00	0.00		H
ATOM	6451	C	THR	X	603	74.275	104.615	95.535	1.00	0.00		C
ATOM	6452	O	THR	X	603	73.522	103.641	95.807	1.00	0.00		O
ATOM	6453	N	ALA	X	604	75.529	104.751	96.007	1.00	0.00		N
ATOM	6454	H	ALA	X	604	76.031	105.570	95.693	1.00	0.00		H
ATOM	6455	CA	ALA	X	604	76.262	103.831	96.846	1.00	0.00		C
ATOM	6456	HA	ALA	X	604	76.219	102.849	96.376	1.00	0.00		H
ATOM	6457	CB	ALA	X	604	77.751	104.337	96.881	1.00	0.00		C
ATOM	6458	HB1	ALA	X	604	78.343	103.751	97.584	1.00	0.00		H
ATOM	6459	HB2	ALA	X	604	78.223	104.310	95.898	1.00	0.00		H
ATOM	6460	HB3	ALA	X	604	77.666	105.397	97.117	1.00	0.00		H
ATOM	6461	C	ALA	X	604	75.781	103.649	98.232	1.00	0.00		C
ATOM	6462	O	ALA	X	604	75.978	102.535	98.824	1.00	0.00		O
ATOM	6463	N	SER	X	605	75.005	104.622	98.765	1.00	0.00		N
ATOM	6464	H	SER	X	605	74.915	105.533	98.336	1.00	0.00		H
ATOM	6465	CA	SER	X	605	74.346	104.476	100.097	1.00	0.00		C
ATOM	6466	HA	SER	X	605	75.083	104.124	100.819	1.00	0.00		H
ATOM	6467	CB	SER	X	605	73.934	105.842	100.564	1.00	0.00		C
ATOM	6468	HB2	SER	X	605	73.565	105.940	101.586	1.00	0.00		H
ATOM	6469	HB3	SER	X	605	74.781	106.489	100.333	1.00	0.00		H
ATOM	6470	OG	SER	X	605	72.861	106.177	99.695	1.00	0.00		O
ATOM	6471	HG	SER	X	605	73.209	106.414	98.833	1.00	0.00		H
ATOM	6472	C	SER	X	605	73.266	103.318	100.036	1.00	0.00		C
ATOM	6473	O	SER	X	605	73.074	102.628	101.023	1.00	0.00		O
ATOM	6474	N	LEU	X	606	72.568	103.181	98.923	1.00	0.00		N
ATOM	6475	H	LEU	X	606	72.773	103.814	98.162	1.00	0.00		H
ATOM	6476	CA	LEU	X	606	71.606	102.053	98.720	1.00	0.00		C

ATOM	6477	HA	LEU	X	606	70.837	102.234	99.471	1.00	0.00	H
ATOM	6478	CB	LEU	X	606	70.811	102.062	97.399	1.00	0.00	C
ATOM	6479	HB2	LEU	X	606	71.513	102.143	96.569	1.00	0.00	H
ATOM	6480	HB3	LEU	X	606	70.236	101.145	97.274	1.00	0.00	H
ATOM	6481	CG	LEU	X	606	69.771	103.277	97.346	1.00	0.00	C
ATOM	6482	HG	LEU	X	606	69.037	103.181	98.147	1.00	0.00	H
ATOM	6483	CD1	LEU	X	606	70.384	104.657	97.386	1.00	0.00	C
ATOM	6484	HD11	LEU	X	606	69.940	105.364	96.688	1.00	0.00	H
ATOM	6485	HD12	LEU	X	606	70.319	104.986	98.424	1.00	0.00	H
ATOM	6486	HD13	LEU	X	606	71.426	104.680	97.067	1.00	0.00	H
ATOM	6487	CD2	LEU	X	606	69.050	103.088	96.049	1.00	0.00	C
ATOM	6488	HD21	LEU	X	606	69.739	103.349	95.246	1.00	0.00	H
ATOM	6489	HD22	LEU	X	606	68.710	102.071	95.859	1.00	0.00	H
ATOM	6490	HD23	LEU	X	606	68.243	103.812	95.939	1.00	0.00	H
ATOM	6491	C	LEU	X	606	72.212	100.630	98.979	1.00	0.00	C
ATOM	6492	O	LEU	X	606	71.517	99.738	99.418	1.00	0.00	O
ATOM	6493	N	ARG	X	607	73.540	100.442	98.892	1.00	0.00	N
ATOM	6494	H	ARG	X	607	74.064	101.221	98.522	1.00	0.00	H
ATOM	6495	CA	ARG	X	607	74.272	99.249	99.097	1.00	0.00	C
ATOM	6496	HA	ARG	X	607	73.890	98.533	98.369	1.00	0.00	H
ATOM	6497	CB	ARG	X	607	75.774	99.338	98.712	1.00	0.00	C
ATOM	6498	HB2	ARG	X	607	75.886	99.863	97.764	1.00	0.00	H
ATOM	6499	HB3	ARG	X	607	76.355	99.910	99.436	1.00	0.00	H
ATOM	6500	CG	ARG	X	607	76.442	97.999	98.470	1.00	0.00	C
ATOM	6501	HG2	ARG	X	607	76.732	97.481	99.383	1.00	0.00	H
ATOM	6502	HG3	ARG	X	607	75.700	97.361	97.990	1.00	0.00	H
ATOM	6503	CD	ARG	X	607	77.660	98.100	97.512	1.00	0.00	C
ATOM	6504	HD2	ARG	X	607	77.961	97.116	97.153	1.00	0.00	H
ATOM	6505	HD3	ARG	X	607	77.449	98.588	96.559	1.00	0.00	H
ATOM	6506	NE	ARG	X	607	78.734	98.863	98.187	1.00	0.00	N
ATOM	6507	HE	ARG	X	607	78.524	99.448	98.984	1.00	0.00	H
ATOM	6508	CZ	ARG	X	607	80.007	99.056	97.828	1.00	0.00	C
ATOM	6509	NH1	ARG	X	607	80.493	98.603	96.733	1.00	0.00	N
ATOM	6510	HH11	ARG	X	607	79.990	98.010	96.089	1.00	0.00	H
ATOM	6511	HH12	ARG	X	607	81.446	98.766	96.442	1.00	0.00	H
ATOM	6512	NH2	ARG	X	607	80.783	99.725	98.596	1.00	0.00	N
ATOM	6513	HH21	ARG	X	607	80.380	100.221	99.377	1.00	0.00	H
ATOM	6514	HH22	ARG	X	607	81.709	99.988	98.289	1.00	0.00	H
ATOM	6515	C	ARG	X	607	74.000	98.607	100.479	1.00	0.00	C
ATOM	6516	O	ARG	X	607	73.710	97.391	100.673	1.00	0.00	O
ATOM	6517	N	TYR	X	608	74.029	99.506	101.477	1.00	0.00	N
ATOM	6518	H	TYR	X	608	74.159	100.481	101.251	1.00	0.00	H
ATOM	6519	CA	TYR	X	608	73.911	99.140	102.893	1.00	0.00	C
ATOM	6520	HA	TYR	X	608	74.607	98.344	103.157	1.00	0.00	H
ATOM	6521	CB	TYR	X	608	74.287	100.401	103.718	1.00	0.00	C
ATOM	6522	HB2	TYR	X	608	73.645	101.231	103.424	1.00	0.00	H
ATOM	6523	HB3	TYR	X	608	74.258	100.190	104.786	1.00	0.00	H
ATOM	6524	CG	TYR	X	608	75.705	100.974	103.585	1.00	0.00	C
ATOM	6525	CD1	TYR	X	608	76.115	101.699	102.467	1.00	0.00	C
ATOM	6526	HD1	TYR	X	608	75.430	102.012	101.693	1.00	0.00	H
ATOM	6527	CE1	TYR	X	608	77.471	102.167	102.343	1.00	0.00	C
ATOM	6528	HE1	TYR	X	608	77.724	102.779	101.490	1.00	0.00	H
ATOM	6529	CZ	TYR	X	608	78.379	101.784	103.345	1.00	0.00	C
ATOM	6530	OH	TYR	X	608	79.687	102.130	103.295	1.00	0.00	O
ATOM	6531	HH	TYR	X	608	79.866	102.617	104.103	1.00	0.00	H
ATOM	6532	CE2	TYR	X	608	78.019	100.917	104.392	1.00	0.00	C
ATOM	6533	HE2	TYR	X	608	78.806	100.705	105.101	1.00	0.00	H
ATOM	6534	CD2	TYR	X	608	76.654	100.460	104.466	1.00	0.00	C
ATOM	6535	HD2	TYR	X	608	76.312	99.887	105.317	1.00	0.00	H
ATOM	6536	C	TYR	X	608	72.466	98.654	103.297	1.00	0.00	C
ATOM	6537	O	TYR	X	608	72.293	98.035	104.342	1.00	0.00	O
ATOM	6538	N	LEU	X	609	71.400	98.820	102.460	1.00	0.00	N
ATOM	6539	H	LEU	X	609	71.540	99.325	101.596	1.00	0.00	H
ATOM	6540	CA	LEU	X	609	70.086	98.305	102.666	1.00	0.00	C
ATOM	6541	HA	LEU	X	609	69.725	98.560	103.661	1.00	0.00	H
ATOM	6542	CB	LEU	X	609	69.014	99.054	101.883	1.00	0.00	C
ATOM	6543	HB2	LEU	X	609	69.268	99.036	100.823	1.00	0.00	H
ATOM	6544	HB3	LEU	X	609	68.185	98.363	102.037	1.00	0.00	H
ATOM	6545	CG	LEU	X	609	68.682	100.463	102.385	1.00	0.00	C
ATOM	6546	HG	LEU	X	609	69.119	100.577	103.377	1.00	0.00	H
ATOM	6547	CD1	LEU	X	609	69.264	101.595	101.458	1.00	0.00	C
ATOM	6548	HD11	LEU	X	609	70.348	101.690	101.536	1.00	0.00	H
ATOM	6549	HD12	LEU	X	609	68.988	101.455	100.413	1.00	0.00	H
ATOM	6550	HD13	LEU	X	609	68.710	102.525	101.590	1.00	0.00	H
ATOM	6551	CD2	LEU	X	609	67.166	100.543	102.599	1.00	0.00	C
ATOM	6552	HD21	LEU	X	609	66.968	101.491	103.101	1.00	0.00	H
ATOM	6553	HD22	LEU	X	609	66.619	100.503	101.657	1.00	0.00	H
ATOM	6554	HD23	LEU	X	609	66.944	99.772	103.336	1.00	0.00	H
ATOM	6555	C	LEU	X	609	69.899	96.783	102.488	1.00	0.00	C
ATOM	6556	O	LEU	X	609	69.004	96.126	102.978	1.00	0.00	O
ATOM	6557	N	PHE	X	610	70.804	96.219	101.684	1.00	0.00	N
ATOM	6558	H	PHE	X	610	71.603	96.719	101.320	1.00	0.00	H

ATOM	6559	CA	PHE	X	610	70.754	94.828	101.289	1.00	0.00	C
ATOM	6560	HA	PHE	X	610	69.681	94.633	101.280	1.00	0.00	H
ATOM	6561	CB	PHE	X	610	70.943	94.670	99.782	1.00	0.00	C
ATOM	6562	HB2	PHE	X	610	71.969	94.763	99.427	1.00	0.00	H
ATOM	6563	HB3	PHE	X	610	70.636	93.647	99.562	1.00	0.00	H
ATOM	6564	CG	PHE	X	610	70.028	95.604	98.972	1.00	0.00	C
ATOM	6565	CD1	PHE	X	610	70.496	96.836	98.519	1.00	0.00	C
ATOM	6566	HD1	PHE	X	610	71.526	97.147	98.613	1.00	0.00	H
ATOM	6567	CE1	PHE	X	610	69.590	97.650	97.825	1.00	0.00	C
ATOM	6568	HE1	PHE	X	610	69.967	98.620	97.536	1.00	0.00	H
ATOM	6569	CZ	PHE	X	610	68.310	97.174	97.415	1.00	0.00	C
ATOM	6570	HZ	PHE	X	610	67.736	97.742	96.698	1.00	0.00	H
ATOM	6571	CE2	PHE	X	610	67.950	95.897	97.802	1.00	0.00	C
ATOM	6572	HE2	PHE	X	610	67.047	95.493	97.365	1.00	0.00	H
ATOM	6573	CD2	PHE	X	610	68.751	95.124	98.644	1.00	0.00	C
ATOM	6574	HD2	PHE	X	610	68.424	94.113	98.836	1.00	0.00	H
ATOM	6575	C	PHE	X	610	71.540	93.921	102.153	1.00	0.00	C
ATOM	6576	O	PHE	X	610	72.557	94.333	102.724	1.00	0.00	O
ATOM	6577	N	ASN	X	611	71.218	92.607	102.228	1.00	0.00	N
ATOM	6578	H	ASN	X	611	70.358	92.265	101.824	1.00	0.00	H
ATOM	6579	CA	ASN	X	611	71.886	91.669	103.051	1.00	0.00	C
ATOM	6580	HA	ASN	X	611	72.158	92.167	103.981	1.00	0.00	H
ATOM	6581	CB	ASN	X	611	70.855	90.606	103.496	1.00	0.00	C
ATOM	6582	HB2	ASN	X	611	70.551	90.045	102.613	1.00	0.00	H
ATOM	6583	HB3	ASN	X	611	71.316	89.913	104.198	1.00	0.00	H
ATOM	6584	CG	ASN	X	611	69.611	91.075	104.216	1.00	0.00	C
ATOM	6585	OD1	ASN	X	611	69.475	92.252	104.611	1.00	0.00	O
ATOM	6586	ND2	ASN	X	611	68.618	90.211	104.415	1.00	0.00	N
ATOM	6587	HD21	ASN	X	611	67.827	90.356	105.024	1.00	0.00	H
ATOM	6588	HD22	ASN	X	611	68.754	89.287	104.030	1.00	0.00	H
ATOM	6589	C	ASN	X	611	73.237	91.186	102.556	1.00	0.00	C
ATOM	6590	O	ASN	X	611	73.647	90.065	102.787	1.00	0.00	O
ATOM	6591	N	CYS	X	612	73.960	91.999	101.795	1.00	0.00	N
ATOM	6592	H	CYS	X	612	73.400	92.793	101.523	1.00	0.00	H
ATOM	6593	CA	CYS	X	612	75.213	91.625	101.151	1.00	0.00	C
ATOM	6594	HA	CYS	X	612	75.024	90.778	100.490	1.00	0.00	H
ATOM	6595	CB	CYS	X	612	75.749	92.654	100.185	1.00	0.00	C
ATOM	6596	HB2	CYS	X	612	76.148	93.530	100.696	1.00	0.00	H
ATOM	6597	HB3	CYS	X	612	76.637	92.246	99.701	1.00	0.00	H
ATOM	6598	SG	CYS	X	612	74.527	93.290	99.048	1.00	0.00	S
ATOM	6599	HG	CYS	X	612	74.618	92.292	98.166	1.00	0.00	H
ATOM	6600	C	CYS	X	612	76.332	91.141	102.134	1.00	0.00	C
ATOM	6601	O	CYS	X	612	77.272	90.464	101.726	1.00	0.00	O
ATOM	6602	N	ARG	X	613	76.358	91.690	103.387	1.00	0.00	N
ATOM	6603	H	ARG	X	613	75.555	92.190	103.741	1.00	0.00	H
ATOM	6604	CA	ARG	X	613	77.526	91.505	104.352	1.00	0.00	C
ATOM	6605	HA	ARG	X	613	78.425	91.190	103.824	1.00	0.00	H
ATOM	6606	CB	ARG	X	613	78.171	92.824	104.849	1.00	0.00	C
ATOM	6607	HB2	ARG	X	613	78.095	93.431	103.947	1.00	0.00	H
ATOM	6608	HB3	ARG	X	613	77.635	93.206	105.718	1.00	0.00	H
ATOM	6609	CG	ARG	X	613	79.685	92.671	105.189	1.00	0.00	C
ATOM	6610	HG2	ARG	X	613	79.909	92.108	106.095	1.00	0.00	H
ATOM	6611	HG3	ARG	X	613	80.314	92.168	104.455	1.00	0.00	H
ATOM	6612	CD	ARG	X	613	80.346	94.009	105.414	1.00	0.00	C
ATOM	6613	HD2	ARG	X	613	80.106	94.485	104.464	1.00	0.00	H
ATOM	6614	HD3	ARG	X	613	79.903	94.638	106.186	1.00	0.00	H
ATOM	6615	NE	ARG	X	613	81.856	93.938	105.625	1.00	0.00	N
ATOM	6616	HE	ARG	X	613	82.192	93.909	106.578	1.00	0.00	H
ATOM	6617	CZ	ARG	X	613	82.756	93.833	104.693	1.00	0.00	C
ATOM	6618	NH1	ARG	X	613	82.552	93.933	103.433	1.00	0.00	N
ATOM	6619	HH11	ARG	X	613	81.608	94.041	103.093	1.00	0.00	H
ATOM	6620	HH12	ARG	X	613	83.398	93.999	102.884	1.00	0.00	H
ATOM	6621	NH2	ARG	X	613	83.993	93.767	105.022	1.00	0.00	N
ATOM	6622	HH21	ARG	X	613	84.064	93.899	106.020	1.00	0.00	H
ATOM	6623	HH22	ARG	X	613	84.763	93.836	104.372	1.00	0.00	H
ATOM	6624	C	ARG	X	613	77.174	90.604	105.535	1.00	0.00	C
ATOM	6625	O	ARG	X	613	78.043	90.042	106.211	1.00	0.00	O
ATOM	6626	N	ARG	X	614	75.858	90.526	105.754	1.00	0.00	N
ATOM	6627	H	ARG	X	614	75.217	91.055	105.181	1.00	0.00	H
ATOM	6628	CA	ARG	X	614	75.225	89.881	106.987	1.00	0.00	C
ATOM	6629	HA	ARG	X	614	75.645	90.508	107.775	1.00	0.00	H
ATOM	6630	CB	ARG	X	614	73.638	90.016	107.012	1.00	0.00	C
ATOM	6631	HB2	ARG	X	614	73.404	91.076	106.926	1.00	0.00	H
ATOM	6632	HB3	ARG	X	614	73.319	89.472	106.123	1.00	0.00	H
ATOM	6633	CG	ARG	X	614	72.727	89.450	108.162	1.00	0.00	C
ATOM	6634	HG2	ARG	X	614	72.666	88.373	108.001	1.00	0.00	H
ATOM	6635	HG3	ARG	X	614	73.132	89.690	109.145	1.00	0.00	H
ATOM	6636	CD	ARG	X	614	71.331	90.109	108.143	1.00	0.00	C
ATOM	6637	HD2	ARG	X	614	71.378	91.181	108.340	1.00	0.00	H
ATOM	6638	HD3	ARG	X	614	70.997	89.978	107.114	1.00	0.00	H
ATOM	6639	NE	ARG	X	614	70.464	89.361	109.080	1.00	0.00	N
ATOM	6640	HE	ARG	X	614	70.780	88.452	109.384	1.00	0.00	H

ATOM	6641	CZ	ARG	X	614	69.132	89.573	109.313	1.00	0.00	C
ATOM	6642	NH1	ARG	X	614	68.508	90.626	108.910	1.00	0.00	N
ATOM	6643	HH11	ARG	X	614	69.008	91.378	108.456	1.00	0.00	H
ATOM	6644	HH12	ARG	X	614	67.500	90.612	108.968	1.00	0.00	H
ATOM	6645	NH2	ARG	X	614	68.440	88.606	109.896	1.00	0.00	N
ATOM	6646	HH21	ARG	X	614	68.919	87.722	110.001	1.00	0.00	H
ATOM	6647	HH22	ARG	X	614	67.455	88.724	110.088	1.00	0.00	H
ATOM	6648	C	ARG	X	614	75.620	88.469	107.293	1.00	0.00	C
ATOM	6649	O	ARG	X	614	75.774	88.093	108.487	1.00	0.00	O
ATOM	6650	N	PRO	X	615	76.026	87.657	106.303	1.00	0.00	N
ATOM	6651	CD	PRO	X	615	76.767	86.423	106.556	1.00	0.00	C
ATOM	6652	HD2	PRO	X	615	76.422	85.847	107.415	1.00	0.00	H
ATOM	6653	HD3	PRO	X	615	77.826	86.642	106.692	1.00	0.00	H
ATOM	6654	CG	PRO	X	615	76.712	85.543	105.304	1.00	0.00	C
ATOM	6655	HG2	PRO	X	615	75.885	84.862	105.496	1.00	0.00	H
ATOM	6656	HG3	PRO	X	615	77.623	84.957	105.187	1.00	0.00	H
ATOM	6657	CB	PRO	X	615	76.281	86.500	104.209	1.00	0.00	C
ATOM	6658	HB2	PRO	X	615	75.652	86.010	103.465	1.00	0.00	H
ATOM	6659	HB3	PRO	X	615	77.134	87.023	103.780	1.00	0.00	H
ATOM	6660	CA	PRO	X	615	75.415	87.538	105.007	1.00	0.00	C
ATOM	6661	HA	PRO	X	615	75.481	88.520	104.540	1.00	0.00	H
ATOM	6662	C	PRO	X	615	74.027	86.970	105.029	1.00	0.00	C
ATOM	6663	O	PRO	X	615	73.546	86.348	105.982	1.00	0.00	O
ATOM	6664	N	GLY	X	616	73.286	87.357	104.009	1.00	0.00	N
ATOM	6665	H	GLY	X	616	73.592	88.088	103.381	1.00	0.00	H
ATOM	6666	CA	GLY	X	616	71.969	86.773	103.908	1.00	0.00	C
ATOM	6667	HA2	GLY	X	616	71.403	87.228	103.095	1.00	0.00	H
ATOM	6668	HA3	GLY	X	616	72.078	85.731	103.604	1.00	0.00	H
ATOM	6669	C	GLY	X	616	71.077	86.979	105.139	1.00	0.00	C
ATOM	6670	O	GLY	X	616	71.010	88.088	105.704	1.00	0.00	O
ATOM	6671	N	SER	X	617	70.263	86.018	105.591	1.00	0.00	N
ATOM	6672	H	SER	X	617	70.383	85.104	105.179	1.00	0.00	H
ATOM	6673	CA	SER	X	617	69.278	86.156	106.638	1.00	0.00	C
ATOM	6674	HA	SER	X	617	68.962	87.199	106.606	1.00	0.00	H
ATOM	6675	CB	SER	X	617	67.994	85.289	106.380	1.00	0.00	C
ATOM	6676	HB2	SER	X	617	67.140	85.449	107.038	1.00	0.00	H
ATOM	6677	HB3	SER	X	617	67.683	85.581	105.378	1.00	0.00	H
ATOM	6678	OG	SER	X	617	68.285	83.917	106.328	1.00	0.00	O
ATOM	6679	HG	SER	X	617	68.109	83.499	107.176	1.00	0.00	H
ATOM	6680	C	SER	X	617	69.939	85.811	108.021	1.00	0.00	C
ATOM	6681	O	SER	X	617	69.241	85.598	108.999	1.00	0.00	O
ATOM	6682	N	SER	X	618	71.269	85.777	108.097	1.00	0.00	N
ATOM	6683	H	SER	X	618	71.648	86.020	107.192	1.00	0.00	H
ATOM	6684	CA	SER	X	618	72.037	85.304	109.285	1.00	0.00	C
ATOM	6685	HA	SER	X	618	71.804	84.246	109.395	1.00	0.00	H
ATOM	6686	CB	SER	X	618	73.554	85.521	109.063	1.00	0.00	C
ATOM	6687	HB2	SER	X	618	73.868	84.828	108.284	1.00	0.00	H
ATOM	6688	HB3	SER	X	618	73.588	86.565	108.753	1.00	0.00	H
ATOM	6689	OG	SER	X	618	74.287	85.238	110.245	1.00	0.00	O
ATOM	6690	HG	SER	X	618	74.847	84.514	109.956	1.00	0.00	H
ATOM	6691	C	SER	X	618	71.616	86.053	110.608	1.00	0.00	C
ATOM	6692	O	SER	X	618	71.317	87.261	110.654	1.00	0.00	O
ATOM	6693	N	PRO	X	619	71.634	85.329	111.744	1.00	0.00	N
ATOM	6694	CD	PRO	X	619	71.888	83.908	111.842	1.00	0.00	C
ATOM	6695	HD2	PRO	X	619	72.857	83.700	111.388	1.00	0.00	H
ATOM	6696	HD3	PRO	X	619	71.116	83.227	111.482	1.00	0.00	H
ATOM	6697	CG	PRO	X	619	72.004	83.680	113.372	1.00	0.00	C
ATOM	6698	HG2	PRO	X	619	73.009	83.881	113.741	1.00	0.00	H
ATOM	6699	HG3	PRO	X	619	71.544	82.765	113.742	1.00	0.00	H
ATOM	6700	CB	PRO	X	619	71.133	84.730	114.029	1.00	0.00	C
ATOM	6701	HB2	PRO	X	619	71.402	84.955	115.063	1.00	0.00	H
ATOM	6702	HB3	PRO	X	619	70.065	84.534	113.928	1.00	0.00	H
ATOM	6703	CA	PRO	X	619	71.340	85.938	113.078	1.00	0.00	C
ATOM	6704	HA	PRO	X	619	70.414	86.512	113.104	1.00	0.00	H
ATOM	6705	C	PRO	X	619	72.429	86.901	113.505	1.00	0.00	C
ATOM	6706	O	PRO	X	619	72.182	87.611	114.491	1.00	0.00	O
ATOM	6707	N	LEU	X	620	73.626	86.841	112.921	1.00	0.00	N
ATOM	6708	H	LEU	X	620	73.823	86.282	112.103	1.00	0.00	H
ATOM	6709	CA	LEU	X	620	74.754	87.639	113.369	1.00	0.00	C
ATOM	6710	HA	LEU	X	620	74.858	87.460	114.440	1.00	0.00	H
ATOM	6711	CB	LEU	X	620	76.002	86.989	112.810	1.00	0.00	C
ATOM	6712	HB2	LEU	X	620	75.775	86.757	111.769	1.00	0.00	H
ATOM	6713	HB3	LEU	X	620	76.777	87.755	112.837	1.00	0.00	H
ATOM	6714	CG	LEU	X	620	76.482	85.712	113.567	1.00	0.00	C
ATOM	6715	HG	LEU	X	620	75.728	84.930	113.477	1.00	0.00	H
ATOM	6716	CD1	LEU	X	620	77.716	85.232	112.856	1.00	0.00	C
ATOM	6717	HD11	LEU	X	620	78.370	86.102	112.801	1.00	0.00	H
ATOM	6718	HD12	LEU	X	620	78.266	84.592	113.546	1.00	0.00	H
ATOM	6719	HD13	LEU	X	620	77.538	84.723	111.908	1.00	0.00	H
ATOM	6720	CD2	LEU	X	620	76.726	85.897	115.066	1.00	0.00	C
ATOM	6721	HD21	LEU	X	620	77.270	85.039	115.460	1.00	0.00	H
ATOM	6722	HD22	LEU	X	620	77.358	86.781	115.147	1.00	0.00	H

ATOM	6723	HD23	LEU	X	620	75.816	85.990	115.658	1.00	0.00	H
ATOM	6724	C	LEU	X	620	74.702	89.224	113.120	1.00	0.00	C
ATOM	6725	O	LEU	X	620	75.715	89.914	113.408	1.00	0.00	O
ATOM	6726	N	SER	X	621	73.519	89.702	112.653	1.00	0.00	N
ATOM	6727	H	SER	X	621	72.770	89.034	112.542	1.00	0.00	H
ATOM	6728	CA	SER	X	621	73.024	91.030	112.696	1.00	0.00	C
ATOM	6729	HA	SER	X	621	73.574	91.711	112.048	1.00	0.00	H
ATOM	6730	CB	SER	X	621	71.707	91.104	111.970	1.00	0.00	C
ATOM	6731	HB2	SER	X	621	71.495	92.146	111.725	1.00	0.00	H
ATOM	6732	HB3	SER	X	621	71.982	90.594	111.047	1.00	0.00	H
ATOM	6733	OG	SER	X	621	70.614	90.478	112.636	1.00	0.00	O
ATOM	6734	HG	SER	X	621	70.310	91.064	113.334	1.00	0.00	H
ATOM	6735	C	SER	X	621	73.047	91.678	114.154	1.00	0.00	C
ATOM	6736	O	SER	X	621	73.101	92.903	114.368	1.00	0.00	O
ATOM	6737	N	ARG	X	622	72.992	90.847	115.205	1.00	0.00	N
ATOM	6738	H	ARG	X	622	72.923	89.852	115.040	1.00	0.00	H
ATOM	6739	CA	ARG	X	622	72.927	91.268	116.615	1.00	0.00	C
ATOM	6740	HA	ARG	X	622	72.134	92.015	116.615	1.00	0.00	H
ATOM	6741	CB	ARG	X	622	72.469	90.066	117.401	1.00	0.00	C
ATOM	6742	HB2	ARG	X	622	72.312	90.397	118.427	1.00	0.00	H
ATOM	6743	HB3	ARG	X	622	71.487	89.849	116.983	1.00	0.00	H
ATOM	6744	CG	ARG	X	622	73.610	88.912	117.475	1.00	0.00	C
ATOM	6745	HG2	ARG	X	622	74.089	88.705	116.517	1.00	0.00	H
ATOM	6746	HG3	ARG	X	622	74.364	89.324	118.146	1.00	0.00	H
ATOM	6747	CD	ARG	X	622	73.077	87.525	117.817	1.00	0.00	C
ATOM	6748	HD2	ARG	X	622	72.398	87.355	116.983	1.00	0.00	H
ATOM	6749	HD3	ARG	X	622	73.939	86.870	117.683	1.00	0.00	H
ATOM	6750	NE	ARG	X	622	72.458	87.344	119.170	1.00	0.00	N
ATOM	6751	HE	ARG	X	622	71.450	87.402	119.203	1.00	0.00	H
ATOM	6752	CZ	ARG	X	622	72.969	87.186	120.388	1.00	0.00	C
ATOM	6753	NH1	ARG	X	622	74.204	87.051	120.571	1.00	0.00	N
ATOM	6754	HH11	ARG	X	622	74.798	86.996	119.756	1.00	0.00	H
ATOM	6755	HH12	ARG	X	622	74.490	86.957	121.535	1.00	0.00	H
ATOM	6756	NH2	ARG	X	622	72.256	87.148	121.452	1.00	0.00	N
ATOM	6757	HH21	ARG	X	622	71.313	87.414	121.207	1.00	0.00	H
ATOM	6758	HH22	ARG	X	622	72.670	87.340	122.354	1.00	0.00	H
ATOM	6759	C	ARG	X	622	74.154	91.873	117.161	1.00	0.00	C
ATOM	6760	O	ARG	X	622	74.277	92.090	118.382	1.00	0.00	O
ATOM	6761	N	LEU	X	623	75.174	92.037	116.366	1.00	0.00	N
ATOM	6762	H	LEU	X	623	75.073	91.721	115.413	1.00	0.00	H
ATOM	6763	CA	LEU	X	623	76.431	92.740	116.705	1.00	0.00	C
ATOM	6764	HA	LEU	X	623	76.673	92.673	117.765	1.00	0.00	H
ATOM	6765	CB	LEU	X	623	77.500	91.928	116.124	1.00	0.00	C
ATOM	6766	HB2	LEU	X	623	77.469	92.021	115.038	1.00	0.00	H
ATOM	6767	HB3	LEU	X	623	78.444	92.403	116.388	1.00	0.00	H
ATOM	6768	CG	LEU	X	623	77.385	90.394	116.466	1.00	0.00	C
ATOM	6769	HG	LEU	X	623	76.456	89.915	116.157	1.00	0.00	H
ATOM	6770	CD1	LEU	X	623	78.524	89.696	115.767	1.00	0.00	C
ATOM	6771	HD11	LEU	X	623	79.491	90.121	116.032	1.00	0.00	H
ATOM	6772	HD12	LEU	X	623	78.559	88.634	116.012	1.00	0.00	H
ATOM	6773	HD13	LEU	X	623	78.555	89.689	114.677	1.00	0.00	H
ATOM	6774	CD2	LEU	X	623	77.685	90.165	117.939	1.00	0.00	C
ATOM	6775	HD21	LEU	X	623	78.686	90.466	118.253	1.00	0.00	H
ATOM	6776	HD22	LEU	X	623	76.909	90.592	118.573	1.00	0.00	H
ATOM	6777	HD23	LEU	X	623	77.655	89.113	118.223	1.00	0.00	H
ATOM	6778	C	LEU	X	623	76.425	94.225	116.156	1.00	0.00	C
ATOM	6779	O	LEU	X	623	77.285	95.035	116.422	1.00	0.00	O
ATOM	6780	N	LEU	X	624	75.374	94.573	115.376	1.00	0.00	N
ATOM	6781	H	LEU	X	624	74.687	93.878	115.121	1.00	0.00	H
ATOM	6782	CA	LEU	X	624	75.088	96.006	114.975	1.00	0.00	C
ATOM	6783	HA	LEU	X	624	75.997	96.437	114.553	1.00	0.00	H
ATOM	6784	CB	LEU	X	624	73.963	96.051	113.882	1.00	0.00	C
ATOM	6785	HB2	LEU	X	624	73.131	95.386	114.118	1.00	0.00	H
ATOM	6786	HB3	LEU	X	624	73.444	97.009	113.901	1.00	0.00	H
ATOM	6787	CG	LEU	X	624	74.412	95.721	112.462	1.00	0.00	C
ATOM	6788	HG	LEU	X	624	75.132	94.904	112.436	1.00	0.00	H
ATOM	6789	CD1	LEU	X	624	73.187	95.278	111.575	1.00	0.00	C
ATOM	6790	HD11	LEU	X	624	72.991	94.240	111.841	1.00	0.00	H
ATOM	6791	HD12	LEU	X	624	72.290	95.867	111.767	1.00	0.00	H
ATOM	6792	HD13	LEU	X	624	73.446	95.329	110.517	1.00	0.00	H
ATOM	6793	CD2	LEU	X	624	75.031	96.937	111.774	1.00	0.00	C
ATOM	6794	HD21	LEU	X	624	75.365	96.494	110.835	1.00	0.00	H
ATOM	6795	HD22	LEU	X	624	74.173	97.581	111.582	1.00	0.00	H
ATOM	6796	HD23	LEU	X	624	75.832	97.327	112.401	1.00	0.00	H
ATOM	6797	C	LEU	X	624	74.670	96.864	116.191	1.00	0.00	C
ATOM	6798	O	LEU	X	624	73.893	96.294	117.015	1.00	0.00	O
ATOM	6799	N	PRO	X	625	75.062	98.147	116.267	1.00	0.00	N
ATOM	6800	CD	PRO	X	625	74.492	98.983	117.341	1.00	0.00	C
ATOM	6801	HD2	PRO	X	625	74.597	98.538	118.332	1.00	0.00	H
ATOM	6802	HD3	PRO	X	625	73.471	99.071	116.971	1.00	0.00	H
ATOM	6803	CG	PRO	X	625	75.251	100.326	117.317	1.00	0.00	C
ATOM	6804	HG2	PRO	X	625	76.148	100.156	117.912	1.00	0.00	H

ATOM	6805	HG3	PRO	X	625	74.692	101.206	117.638	1.00	0.00	H
ATOM	6806	CB	PRO	X	625	75.609	100.413	115.836	1.00	0.00	C
ATOM	6807	HB2	PRO	X	625	76.410	101.153	115.821	1.00	0.00	H
ATOM	6808	HB3	PRO	X	625	74.722	100.749	115.299	1.00	0.00	H
ATOM	6809	CA	PRO	X	625	75.885	99.004	115.438	1.00	0.00	C
ATOM	6810	HA	PRO	X	625	75.454	98.940	114.440	1.00	0.00	H
ATOM	6811	C	PRO	X	625	77.391	98.600	115.433	1.00	0.00	C
ATOM	6812	O	PRO	X	625	77.867	98.422	114.310	1.00	0.00	O
ATOM	6813	N	ARG	X	626	78.057	98.300	116.547	1.00	0.00	N
ATOM	6814	H	ARG	X	626	77.546	98.273	117.418	1.00	0.00	H
ATOM	6815	CA	ARG	X	626	79.560	98.314	116.622	1.00	0.00	C
ATOM	6816	HA	ARG	X	626	79.956	99.286	116.328	1.00	0.00	H
ATOM	6817	CB	ARG	X	626	80.056	97.930	118.064	1.00	0.00	C
ATOM	6818	HB2	ARG	X	626	79.411	98.397	118.807	1.00	0.00	H
ATOM	6819	HB3	ARG	X	626	79.771	96.952	118.454	1.00	0.00	H
ATOM	6820	CG	ARG	X	626	81.544	98.187	118.259	1.00	0.00	C
ATOM	6821	HG2	ARG	X	626	82.094	97.344	117.840	1.00	0.00	H
ATOM	6822	HG3	ARG	X	626	81.931	99.068	117.747	1.00	0.00	H
ATOM	6823	CD	ARG	X	626	81.848	98.499	119.753	1.00	0.00	C
ATOM	6824	HD2	ARG	X	626	81.267	99.390	119.988	1.00	0.00	H
ATOM	6825	HD3	ARG	X	626	81.413	97.639	120.261	1.00	0.00	H
ATOM	6826	NE	ARG	X	626	83.301	98.572	120.026	1.00	0.00	N
ATOM	6827	HE	ARG	X	626	83.704	97.771	120.490	1.00	0.00	H
ATOM	6828	CZ	ARG	X	626	84.126	99.638	120.107	1.00	0.00	C
ATOM	6829	NH1	ARG	X	626	83.686	100.806	119.708	1.00	0.00	N
ATOM	6830	HH11	ARG	X	626	82.813	100.874	119.205	1.00	0.00	H
ATOM	6831	HH12	ARG	X	626	84.199	101.666	119.842	1.00	0.00	H
ATOM	6832	NH2	ARG	X	626	85.382	99.472	120.471	1.00	0.00	N
ATOM	6833	HH21	ARG	X	626	85.786	98.564	120.650	1.00	0.00	H
ATOM	6834	HH22	ARG	X	626	86.027	100.249	120.459	1.00	0.00	H
ATOM	6835	C	ARG	X	626	80.280	97.388	115.625	1.00	0.00	C
ATOM	6836	O	ARG	X	626	81.398	97.733	115.394	1.00	0.00	O
ATOM	6837	N	LEU	X	627	79.762	96.202	115.257	1.00	0.00	N
ATOM	6838	H	LEU	X	627	78.899	95.880	115.670	1.00	0.00	H
ATOM	6839	CA	LEU	X	627	80.459	95.464	114.218	1.00	0.00	C
ATOM	6840	HA	LEU	X	627	81.458	95.288	114.617	1.00	0.00	H
ATOM	6841	CB	LEU	X	627	79.660	94.199	113.782	1.00	0.00	C
ATOM	6842	HB2	LEU	X	627	79.434	93.629	114.682	1.00	0.00	H
ATOM	6843	HB3	LEU	X	627	78.737	94.464	113.266	1.00	0.00	H
ATOM	6844	CG	LEU	X	627	80.511	93.234	112.954	1.00	0.00	C
ATOM	6845	HG	LEU	X	627	81.031	93.769	112.160	1.00	0.00	H
ATOM	6846	CD1	LEU	X	627	81.536	92.501	113.797	1.00	0.00	C
ATOM	6847	HD11	LEU	X	627	82.223	93.136	114.356	1.00	0.00	H
ATOM	6848	HD12	LEU	X	627	81.013	91.958	114.584	1.00	0.00	H
ATOM	6849	HD13	LEU	X	627	82.139	91.823	113.195	1.00	0.00	H
ATOM	6850	CD2	LEU	X	627	79.543	92.241	112.229	1.00	0.00	C
ATOM	6851	HD21	LEU	X	627	78.902	91.764	112.970	1.00	0.00	H
ATOM	6852	HD22	LEU	X	627	78.937	92.826	111.537	1.00	0.00	H
ATOM	6853	HD23	LEU	X	627	80.090	91.516	111.627	1.00	0.00	H
ATOM	6854	C	LEU	X	627	80.737	96.322	112.969	1.00	0.00	C
ATOM	6855	O	LEU	X	627	81.775	96.112	112.327	1.00	0.00	O
ATOM	6856	N	CYS	X	628	79.859	97.332	112.643	1.00	0.00	N
ATOM	6857	H	CYS	X	628	79.129	97.605	113.287	1.00	0.00	H
ATOM	6858	CA	CYS	X	628	80.069	98.097	111.391	1.00	0.00	C
ATOM	6859	HA	CYS	X	628	80.932	97.699	110.857	1.00	0.00	H
ATOM	6860	CB	CYS	X	628	78.831	97.949	110.506	1.00	0.00	C
ATOM	6861	HB2	CYS	X	628	77.967	98.389	111.004	1.00	0.00	H
ATOM	6862	HB3	CYS	X	628	79.008	98.581	109.637	1.00	0.00	H
ATOM	6863	SG	CYS	X	628	78.610	96.235	109.800	1.00	0.00	S
ATOM	6864	HG	CYS	X	628	79.632	96.279	108.940	1.00	0.00	H
ATOM	6865	C	CYS	X	628	80.362	99.602	111.656	1.00	0.00	C
ATOM	6866	O	CYS	X	628	80.739	100.352	110.752	1.00	0.00	O
ATOM	6867	N	VAL	X	629	80.026	100.061	112.829	1.00	0.00	N
ATOM	6868	H	VAL	X	629	79.572	99.411	113.455	1.00	0.00	H
ATOM	6869	CA	VAL	X	629	79.935	101.529	113.178	1.00	0.00	C
ATOM	6870	HA	VAL	X	629	80.443	102.131	112.423	1.00	0.00	H
ATOM	6871	CB	VAL	X	629	78.409	101.995	113.208	1.00	0.00	C
ATOM	6872	HB	VAL	X	629	77.923	101.593	114.096	1.00	0.00	H
ATOM	6873	CG1	VAL	X	629	78.276	103.524	113.233	1.00	0.00	C
ATOM	6874	HG11	VAL	X	629	78.708	104.023	112.366	1.00	0.00	H
ATOM	6875	HG12	VAL	X	629	77.212	103.764	113.224	1.00	0.00	H
ATOM	6876	HG13	VAL	X	629	78.669	103.867	114.189	1.00	0.00	H
ATOM	6877	CG2	VAL	X	629	77.656	101.474	111.960	1.00	0.00	C
ATOM	6878	HG21	VAL	X	629	78.196	101.717	111.044	1.00	0.00	H
ATOM	6879	HG22	VAL	X	629	77.504	100.400	112.079	1.00	0.00	H
ATOM	6880	HG23	VAL	X	629	76.600	101.732	112.047	1.00	0.00	H
ATOM	6881	C	VAL	X	629	80.711	101.854	114.395	1.00	0.00	C
ATOM	6882	O	VAL	X	629	80.327	102.714	115.198	1.00	0.00	O
ATOM	6883	N	GLN	X	630	81.830	101.152	114.628	1.00	0.00	N
ATOM	6884	H	GLN	X	630	82.118	100.447	113.966	1.00	0.00	H
ATOM	6885	CA	GLN	X	630	82.630	101.347	115.890	1.00	0.00	C
ATOM	6886	HA	GLN	X	630	81.994	101.026	116.715	1.00	0.00	H

ATOM	6887	CB	GLN	X	630	83.818	100.368	115.810	1.00	0.00		C
ATOM	6888	HB2	GLN	X	630	84.173	100.245	116.833	1.00	0.00		H
ATOM	6889	HB3	GLN	X	630	83.531	99.350	115.551	1.00	0.00		H
ATOM	6890	CG	GLN	X	630	85.034	100.721	114.962	1.00	0.00		C
ATOM	6891	HG2	GLN	X	630	85.187	101.791	115.105	1.00	0.00		H
ATOM	6892	HG3	GLN	X	630	85.976	100.331	115.346	1.00	0.00		H
ATOM	6893	CD	GLN	X	630	84.873	100.548	113.413	1.00	0.00		C
ATOM	6894	OE1	GLN	X	630	83.834	100.089	112.905	1.00	0.00		O
ATOM	6895	NE2	GLN	X	630	85.886	100.892	112.609	1.00	0.00		N
ATOM	6896	HE21	GLN	X	630	85.821	100.591	111.646	1.00	0.00		H
ATOM	6897	HE22	GLN	X	630	86.802	101.059	112.999	1.00	0.00		H
ATOM	6898	C	GLN	X	630	83.084	102.846	116.019	1.00	0.00		C
ATOM	6899	O	GLN	X	630	83.436	103.473	115.000	1.00	0.00		O
ATOM	6900	N	GLY	X	631	83.009	103.353	117.226	1.00	0.00		N
ATOM	6901	H	GLY	X	631	82.549	102.775	117.914	1.00	0.00		H
ATOM	6902	CA	GLY	X	631	83.252	104.772	117.550	1.00	0.00		C
ATOM	6903	HA2	GLY	X	631	83.135	104.958	118.617	1.00	0.00		H
ATOM	6904	HA3	GLY	X	631	84.251	104.952	117.154	1.00	0.00		H
ATOM	6905	C	GLY	X	631	82.351	105.836	116.864	1.00	0.00		C
ATOM	6906	O	GLY	X	631	82.579	107.060	117.002	1.00	0.00		O
ATOM	6907	N	SER	X	632	81.240	105.371	116.245	1.00	0.00		N
ATOM	6908	H	SER	X	632	81.189	104.389	116.016	1.00	0.00		H
ATOM	6909	CA	SER	X	632	80.170	106.142	115.711	1.00	0.00		C
ATOM	6910	HA	SER	X	632	80.239	107.103	116.222	1.00	0.00		H
ATOM	6911	CB	SER	X	632	80.354	106.425	114.179	1.00	0.00		C
ATOM	6912	HB2	SER	X	632	79.950	105.700	113.474	1.00	0.00		H
ATOM	6913	HB3	SER	X	632	79.802	107.339	113.961	1.00	0.00		H
ATOM	6914	OG	SER	X	632	81.629	106.778	113.824	1.00	0.00		O
ATOM	6915	HG	SER	X	632	81.887	107.387	114.520	1.00	0.00		H
ATOM	6916	C	SER	X	632	78.777	105.664	116.059	1.00	0.00		C
ATOM	6917	O	SER	X	632	77.705	106.054	115.595	1.00	0.00		O
ATOM	6918	N	GLU	X	633	78.701	104.622	116.951	1.00	0.00		N
ATOM	6919	H	GLU	X	633	79.589	104.426	117.389	1.00	0.00		H
ATOM	6920	CA	GLU	X	633	77.495	103.860	117.346	1.00	0.00		C
ATOM	6921	HA	GLU	X	633	77.227	103.300	116.448	1.00	0.00		H
ATOM	6922	CB	GLU	X	633	77.807	102.801	118.486	1.00	0.00		C
ATOM	6923	HB2	GLU	X	633	77.909	103.290	119.455	1.00	0.00		H
ATOM	6924	HB3	GLU	X	633	76.908	102.198	118.619	1.00	0.00		H
ATOM	6925	CG	GLU	X	633	79.039	101.897	118.314	1.00	0.00		C
ATOM	6926	HG2	GLU	X	633	78.867	100.933	118.794	1.00	0.00		H
ATOM	6927	HG3	GLU	X	633	79.158	101.577	117.277	1.00	0.00		H
ATOM	6928	CD	GLU	X	633	80.392	102.461	118.829	1.00	0.00		C
ATOM	6929	OE1	GLU	X	633	80.546	103.727	118.868	1.00	0.00		O
ATOM	6930	OE2	GLU	X	633	81.290	101.666	119.022	1.00	0.00		O
ATOM	6931	C	GLU	X	633	76.282	104.705	117.789	1.00	0.00		C
ATOM	6932	O	GLU	X	633	75.204	104.176	117.834	1.00	0.00		O
ATOM	6933	N	HID	X	634	76.446	105.949	117.997	1.00	0.00		N
ATOM	6934	H	HID	X	634	77.380	106.273	117.788	1.00	0.00		H
ATOM	6935	CA	HID	X	634	75.450	106.895	118.392	1.00	0.00		C
ATOM	6936	HA	HID	X	634	74.659	106.319	118.870	1.00	0.00		H
ATOM	6937	CB	HID	X	634	76.037	107.765	119.559	1.00	0.00		C
ATOM	6938	HB2	HID	X	634	75.236	108.302	120.069	1.00	0.00		H
ATOM	6939	HB3	HID	X	634	76.590	107.101	120.222	1.00	0.00		H
ATOM	6940	CG	HID	X	634	77.003	108.801	119.028	1.00	0.00		C
ATOM	6941	ND1	HID	X	634	78.312	108.542	118.664	1.00	0.00		N
ATOM	6942	HD1	HID	X	634	78.801	107.688	118.894	1.00	0.00		H
ATOM	6943	CE1	HID	X	634	78.811	109.693	118.166	1.00	0.00		C
ATOM	6944	HE1	HID	X	634	79.743	109.859	117.644	1.00	0.00		H
ATOM	6945	NE2	HID	X	634	77.760	110.573	118.135	1.00	0.00		N
ATOM	6946	CD2	HID	X	634	76.674	110.009	118.716	1.00	0.00		C
ATOM	6947	HD2	HID	X	634	75.681	110.426	118.648	1.00	0.00		H
ATOM	6948	C	HID	X	634	74.876	107.811	117.254	1.00	0.00		C
ATOM	6949	O	HID	X	634	73.932	108.507	117.562	1.00	0.00		O
ATOM	6950	N	LYS	X	635	75.593	107.919	116.109	1.00	0.00		N
ATOM	6951	H	LYS	X	635	76.360	107.282	115.948	1.00	0.00		H
ATOM	6952	CA	LYS	X	635	75.515	109.056	115.177	1.00	0.00		C
ATOM	6953	HA	LYS	X	635	75.726	109.934	115.786	1.00	0.00		H
ATOM	6954	CB	LYS	X	635	76.697	109.084	114.324	1.00	0.00		C
ATOM	6955	HB2	LYS	X	635	77.601	109.254	114.910	1.00	0.00		H
ATOM	6956	HB3	LYS	X	635	76.810	108.127	113.814	1.00	0.00		H
ATOM	6957	CG	LYS	X	635	76.625	110.127	113.206	1.00	0.00		C
ATOM	6958	HG2	LYS	X	635	75.784	109.788	112.601	1.00	0.00		H
ATOM	6959	HG3	LYS	X	635	76.391	111.119	113.591	1.00	0.00		H
ATOM	6960	CD	LYS	X	635	77.843	110.073	112.292	1.00	0.00		C
ATOM	6961	HD2	LYS	X	635	78.708	110.030	112.952	1.00	0.00		H
ATOM	6962	HD3	LYS	X	635	77.679	109.156	111.724	1.00	0.00		H
ATOM	6963	CE	LYS	X	635	78.126	111.088	111.216	1.00	0.00		C
ATOM	6964	HE2	LYS	X	635	77.366	111.248	110.451	1.00	0.00		H
ATOM	6965	HE3	LYS	X	635	78.080	112.012	111.793	1.00	0.00		H
ATOM	6966	NZ	LYS	X	635	79.459	110.837	110.628	1.00	0.00		N
ATOM	6967	HZ1	LYS	X	635	80.099	111.100	111.364	1.00	0.00		H
ATOM	6968	HZ2	LYS	X	635	79.582	109.864	110.390	1.00	0.00		H

ATOM	6969	HZ3	LYS	X	635	79.847	111.462	109.937	1.00	0.00	H
ATOM	6970	C	LYS	X	635	74.095	109.290	114.557	1.00	0.00	C
ATOM	6971	O	LYS	X	635	73.245	108.421	114.447	1.00	0.00	O
ATOM	6972	N	GLU	X	636	73.837	110.487	114.238	1.00	0.00	N
ATOM	6973	H	GLU	X	636	74.502	111.224	114.427	1.00	0.00	H
ATOM	6974	CA	GLU	X	636	72.476	111.036	113.813	1.00	0.00	C
ATOM	6975	HA	GLU	X	636	71.663	110.329	113.971	1.00	0.00	H
ATOM	6976	CB	GLU	X	636	72.112	112.200	114.722	1.00	0.00	C
ATOM	6977	HB2	GLU	X	636	71.045	112.384	114.596	1.00	0.00	H
ATOM	6978	HB3	GLU	X	636	72.226	111.952	115.777	1.00	0.00	H
ATOM	6979	CG	GLU	X	636	72.765	113.583	114.426	1.00	0.00	C
ATOM	6980	HG2	GLU	X	636	72.397	114.100	113.540	1.00	0.00	H
ATOM	6981	HG3	GLU	X	636	72.454	114.243	115.234	1.00	0.00	H
ATOM	6982	CD	GLU	X	636	74.293	113.458	114.293	1.00	0.00	C
ATOM	6983	OE1	GLU	X	636	74.855	113.996	113.310	1.00	0.00	O
ATOM	6984	OE2	GLU	X	636	74.887	113.005	115.320	1.00	0.00	O
ATOM	6985	C	GLU	X	636	72.360	111.472	112.367	1.00	0.00	C
ATOM	6986	O	GLU	X	636	71.364	112.069	111.899	1.00	0.00	O
ATOM	6987	N	SER	X	637	73.317	111.190	111.503	1.00	0.00	N
ATOM	6988	H	SER	X	637	74.175	110.875	111.932	1.00	0.00	H
ATOM	6989	CA	SER	X	637	73.545	111.859	110.251	1.00	0.00	C
ATOM	6990	HA	SER	X	637	72.574	112.049	109.795	1.00	0.00	H
ATOM	6991	CB	SER	X	637	74.140	113.236	110.411	1.00	0.00	C
ATOM	6992	HB2	SER	X	637	74.311	113.681	109.431	1.00	0.00	H
ATOM	6993	HB3	SER	X	637	73.462	113.873	110.981	1.00	0.00	H
ATOM	6994	OG	SER	X	637	75.425	113.212	111.002	1.00	0.00	O
ATOM	6995	HG	SER	X	637	75.283	113.368	111.939	1.00	0.00	H
ATOM	6996	C	SER	X	637	74.382	110.950	109.397	1.00	0.00	C
ATOM	6997	O	SER	X	637	75.251	110.261	109.920	1.00	0.00	O
ATOM	6998	N	THR	X	638	74.236	111.000	108.104	1.00	0.00	N
ATOM	6999	H	THR	X	638	73.558	111.715	107.885	1.00	0.00	H
ATOM	7000	CA	THR	X	638	74.951	110.251	107.029	1.00	0.00	C
ATOM	7001	HA	THR	X	638	74.607	110.850	106.186	1.00	0.00	H
ATOM	7002	CB	THR	X	638	76.519	110.450	107.019	1.00	0.00	C
ATOM	7003	HB	THR	X	638	76.915	110.115	106.060	1.00	0.00	H
ATOM	7004	CG2	THR	X	638	76.914	111.949	107.204	1.00	0.00	C
ATOM	7005	HG21	THR	X	638	77.861	112.061	106.678	1.00	0.00	H
ATOM	7006	HG22	THR	X	638	76.213	112.547	106.622	1.00	0.00	H
ATOM	7007	HG23	THR	X	638	77.109	112.216	108.243	1.00	0.00	H
ATOM	7008	OG1	THR	X	638	77.142	109.698	108.096	1.00	0.00	O
ATOM	7009	HG1	THR	X	638	76.752	109.995	108.922	1.00	0.00	H
ATOM	7010	C	THR	X	638	74.304	108.853	106.822	1.00	0.00	C
ATOM	7011	O	THR	X	638	73.837	108.133	107.734	1.00	0.00	O
ATOM	7012	N	VAL	X	639	74.142	108.327	105.556	1.00	0.00	N
ATOM	7013	H	VAL	X	639	74.481	108.807	104.735	1.00	0.00	H
ATOM	7014	CA	VAL	X	639	73.071	107.388	105.176	1.00	0.00	C
ATOM	7015	HA	VAL	X	639	72.133	107.710	105.628	1.00	0.00	H
ATOM	7016	CB	VAL	X	639	72.902	107.488	103.659	1.00	0.00	C
ATOM	7017	HB	VAL	X	639	73.739	106.962	103.198	1.00	0.00	H
ATOM	7018	CG1	VAL	X	639	71.630	106.718	103.241	1.00	0.00	C
ATOM	7019	HG11	VAL	X	639	70.741	107.093	103.747	1.00	0.00	H
ATOM	7020	HG12	VAL	X	639	71.464	106.843	102.171	1.00	0.00	H
ATOM	7021	HG13	VAL	X	639	71.788	105.653	103.413	1.00	0.00	H
ATOM	7022	CG2	VAL	X	639	72.845	108.904	103.078	1.00	0.00	C
ATOM	7023	HG21	VAL	X	639	71.849	109.288	103.292	1.00	0.00	H
ATOM	7024	HG22	VAL	X	639	73.578	109.607	103.473	1.00	0.00	H
ATOM	7025	HG23	VAL	X	639	73.006	108.919	102.000	1.00	0.00	H
ATOM	7026	C	VAL	X	639	73.315	105.968	105.641	1.00	0.00	C
ATOM	7027	O	VAL	X	639	72.416	105.318	106.286	1.00	0.00	O
ATOM	7028	N	ALA	X	640	74.554	105.446	105.535	1.00	0.00	N
ATOM	7029	H	ALA	X	640	75.291	106.050	105.195	1.00	0.00	H
ATOM	7030	CA	ALA	X	640	74.966	104.140	106.172	1.00	0.00	C
ATOM	7031	HA	ALA	X	640	74.433	103.287	105.750	1.00	0.00	H
ATOM	7032	CB	ALA	X	640	76.378	103.907	105.626	1.00	0.00	C
ATOM	7033	HB1	ALA	X	640	76.241	103.860	104.546	1.00	0.00	H
ATOM	7034	HB2	ALA	X	640	77.036	104.706	105.969	1.00	0.00	H
ATOM	7035	HB3	ALA	X	640	76.675	102.916	105.972	1.00	0.00	H
ATOM	7036	C	ALA	X	640	74.926	104.151	107.693	1.00	0.00	C
ATOM	7037	O	ALA	X	640	74.573	103.107	108.221	1.00	0.00	O
ATOM	7038	N	ALA	X	641	75.416	105.282	108.364	1.00	0.00	N
ATOM	7039	H	ALA	X	641	75.831	106.054	107.862	1.00	0.00	H
ATOM	7040	CA	ALA	X	641	75.374	105.408	109.827	1.00	0.00	C
ATOM	7041	HA	ALA	X	641	75.901	104.523	110.183	1.00	0.00	H
ATOM	7042	CB	ALA	X	641	76.176	106.594	110.357	1.00	0.00	C
ATOM	7043	HB1	ALA	X	641	75.556	107.484	110.249	1.00	0.00	H
ATOM	7044	HB2	ALA	X	641	76.397	106.445	111.415	1.00	0.00	H
ATOM	7045	HB3	ALA	X	641	77.035	106.824	109.728	1.00	0.00	H
ATOM	7046	C	ALA	X	641	73.925	105.323	110.353	1.00	0.00	C
ATOM	7047	O	ALA	X	641	73.595	104.417	111.130	1.00	0.00	O
ATOM	7048	N	LEU	X	642	72.929	106.110	109.747	1.00	0.00	N
ATOM	7049	H	LEU	X	642	73.322	106.852	109.184	1.00	0.00	H
ATOM	7050	CA	LEU	X	642	71.486	105.918	109.912	1.00	0.00	C

ATOM	7051	HA	LEU	X	642	71.167	105.929	110.955	1.00	0.00	H
ATOM	7052	CB	LEU	X	642	70.745	107.080	109.234	1.00	0.00	C
ATOM	7053	HB2	LEU	X	642	70.908	106.999	108.160	1.00	0.00	H
ATOM	7054	HB3	LEU	X	642	69.684	106.849	109.350	1.00	0.00	H
ATOM	7055	CG	LEU	X	642	71.071	108.498	109.760	1.00	0.00	C
ATOM	7056	HG	LEU	X	642	72.137	108.633	109.943	1.00	0.00	H
ATOM	7057	CD1	LEU	X	642	70.705	109.531	108.695	1.00	0.00	C
ATOM	7058	HD11	LEU	X	642	69.651	109.387	108.463	1.00	0.00	H
ATOM	7059	HD12	LEU	X	642	70.804	110.581	108.971	1.00	0.00	H
ATOM	7060	HD13	LEU	X	642	71.365	109.503	107.828	1.00	0.00	H
ATOM	7061	CD2	LEU	X	642	70.346	108.669	111.052	1.00	0.00	C
ATOM	7062	HD21	LEU	X	642	70.386	109.718	111.342	1.00	0.00	H
ATOM	7063	HD22	LEU	X	642	69.306	108.351	110.974	1.00	0.00	H
ATOM	7064	HD23	LEU	X	642	70.734	107.998	111.817	1.00	0.00	H
ATOM	7065	C	LEU	X	642	71.053	104.496	109.535	1.00	0.00	C
ATOM	7066	O	LEU	X	642	70.517	103.820	110.438	1.00	0.00	O
ATOM	7067	N	LEU	X	643	71.446	103.834	108.419	1.00	0.00	N
ATOM	7068	H	LEU	X	643	72.014	104.312	107.735	1.00	0.00	H
ATOM	7069	CA	LEU	X	643	70.988	102.436	108.157	1.00	0.00	C
ATOM	7070	HA	LEU	X	643	69.936	102.397	108.437	1.00	0.00	H
ATOM	7071	CB	LEU	X	643	71.205	102.159	106.658	1.00	0.00	C
ATOM	7072	HB2	LEU	X	643	72.249	102.367	106.424	1.00	0.00	H
ATOM	7073	HB3	LEU	X	643	71.095	101.075	106.652	1.00	0.00	H
ATOM	7074	CG	LEU	X	643	70.281	102.958	105.680	1.00	0.00	C
ATOM	7075	HG	LEU	X	643	70.250	104.023	105.910	1.00	0.00	H
ATOM	7076	CD1	LEU	X	643	70.830	102.762	104.240	1.00	0.00	C
ATOM	7077	HD11	LEU	X	643	70.256	103.385	103.555	1.00	0.00	H
ATOM	7078	HD12	LEU	X	643	71.853	103.135	104.184	1.00	0.00	H
ATOM	7079	HD13	LEU	X	643	70.837	101.704	103.977	1.00	0.00	H
ATOM	7080	CD2	LEU	X	643	68.856	102.413	105.814	1.00	0.00	C
ATOM	7081	HD21	LEU	X	643	68.263	103.017	105.128	1.00	0.00	H
ATOM	7082	HD22	LEU	X	643	68.783	101.343	105.623	1.00	0.00	H
ATOM	7083	HD23	LEU	X	643	68.532	102.541	106.847	1.00	0.00	H
ATOM	7084	C	LEU	X	643	71.603	101.297	109.144	1.00	0.00	C
ATOM	7085	O	LEU	X	643	70.931	100.332	109.513	1.00	0.00	O
ATOM	7086	N	GLN	X	644	72.922	101.419	109.523	1.00	0.00	N
ATOM	7087	H	GLN	X	644	73.421	102.283	109.368	1.00	0.00	H
ATOM	7088	CA	GLN	X	644	73.508	100.417	110.429	1.00	0.00	C
ATOM	7089	HA	GLN	X	644	73.031	99.467	110.191	1.00	0.00	H
ATOM	7090	CB	GLN	X	644	75.035	100.299	110.152	1.00	0.00	C
ATOM	7091	HB2	GLN	X	644	75.446	101.301	110.024	1.00	0.00	H
ATOM	7092	HB3	GLN	X	644	75.605	99.794	110.933	1.00	0.00	H
ATOM	7093	CG	GLN	X	644	75.246	99.652	108.733	1.00	0.00	C
ATOM	7094	HG2	GLN	X	644	74.808	98.654	108.750	1.00	0.00	H
ATOM	7095	HG3	GLN	X	644	74.677	100.216	107.994	1.00	0.00	H
ATOM	7096	CD	GLN	X	644	76.677	99.531	108.256	1.00	0.00	C
ATOM	7097	OE1	GLN	X	644	77.469	100.454	108.403	1.00	0.00	O
ATOM	7098	NE2	GLN	X	644	77.019	98.390	107.602	1.00	0.00	N
ATOM	7099	HE21	GLN	X	644	77.995	98.217	107.406	1.00	0.00	H
ATOM	7100	HE22	GLN	X	644	76.322	97.698	107.371	1.00	0.00	H
ATOM	7101	C	GLN	X	644	73.108	100.648	111.934	1.00	0.00	C
ATOM	7102	O	GLN	X	644	73.262	99.738	112.728	1.00	0.00	O
ATOM	7103	N	LYS	X	645	72.603	101.797	112.318	1.00	0.00	N
ATOM	7104	H	LYS	X	645	72.630	102.584	111.686	1.00	0.00	H
ATOM	7105	CA	LYS	X	645	71.948	102.008	113.642	1.00	0.00	C
ATOM	7106	HA	LYS	X	645	72.491	101.505	114.442	1.00	0.00	H
ATOM	7107	CB	LYS	X	645	71.960	103.492	114.092	1.00	0.00	C
ATOM	7108	HB2	LYS	X	645	71.526	104.139	113.330	1.00	0.00	H
ATOM	7109	HB3	LYS	X	645	71.216	103.431	114.887	1.00	0.00	H
ATOM	7110	CG	LYS	X	645	73.312	103.965	114.590	1.00	0.00	C
ATOM	7111	HG2	LYS	X	645	73.648	103.469	115.500	1.00	0.00	H
ATOM	7112	HG3	LYS	X	645	74.013	103.726	113.790	1.00	0.00	H
ATOM	7113	CD	LYS	X	645	73.169	105.447	114.803	1.00	0.00	C
ATOM	7114	HD2	LYS	X	645	74.180	105.854	114.846	1.00	0.00	H
ATOM	7115	HD3	LYS	X	645	72.584	105.922	114.015	1.00	0.00	H
ATOM	7116	CE	LYS	X	645	72.466	105.593	116.169	1.00	0.00	C
ATOM	7117	HE2	LYS	X	645	71.692	104.825	116.185	1.00	0.00	H
ATOM	7118	HE3	LYS	X	645	73.109	105.390	117.026	1.00	0.00	H
ATOM	7119	NZ	LYS	X	645	71.726	106.940	116.315	1.00	0.00	N
ATOM	7120	HZ1	LYS	X	645	72.131	107.534	117.024	1.00	0.00	H
ATOM	7121	HZ2	LYS	X	645	71.666	107.402	115.418	1.00	0.00	H
ATOM	7122	HZ3	LYS	X	645	70.774	106.733	116.580	1.00	0.00	H
ATOM	7123	C	LYS	X	645	70.533	101.400	113.605	1.00	0.00	C
ATOM	7124	O	LYS	X	645	70.043	101.004	114.638	1.00	0.00	O
ATOM	7125	N	THR	X	646	69.966	101.364	112.388	1.00	0.00	N
ATOM	7126	H	THR	X	646	70.558	101.636	111.616	1.00	0.00	H
ATOM	7127	CA	THR	X	646	68.561	100.949	112.146	1.00	0.00	C
ATOM	7128	HA	THR	X	646	67.952	101.561	112.809	1.00	0.00	H
ATOM	7129	CB	THR	X	646	68.046	101.277	110.702	1.00	0.00	C
ATOM	7130	HB	THR	X	646	68.716	100.785	109.998	1.00	0.00	H
ATOM	7131	CG2	THR	X	646	66.566	100.872	110.300	1.00	0.00	C
ATOM	7132	HG21	THR	X	646	66.194	101.255	109.350	1.00	0.00	H

ATOM	7133	HG22	THR	X	646	66.605	99.802	110.092	1.00	0.00	H
ATOM	7134	HG23	THR	X	646	65.920	101.056	111.158	1.00	0.00	H
ATOM	7135	OG1	THR	X	646	67.972	102.661	110.573	1.00	0.00	O
ATOM	7136	HG1	THR	X	646	68.887	102.941	110.654	1.00	0.00	H
ATOM	7137	C	THR	X	646	68.240	99.461	112.511	1.00	0.00	C
ATOM	7138	O	THR	X	646	69.041	98.562	112.205	1.00	0.00	O
ATOM	7139	N	GLU	X	647	67.077	99.183	113.085	1.00	0.00	N
ATOM	7140	H	GLU	X	647	66.483	99.994	113.184	1.00	0.00	H
ATOM	7141	CA	GLU	X	647	66.535	97.747	113.269	1.00	0.00	C
ATOM	7142	HA	GLU	X	647	67.154	97.272	114.031	1.00	0.00	H
ATOM	7143	CB	GLU	X	647	65.074	97.865	113.826	1.00	0.00	C
ATOM	7144	HB2	GLU	X	647	65.210	98.202	114.854	1.00	0.00	H
ATOM	7145	HB3	GLU	X	647	64.525	98.693	113.374	1.00	0.00	H
ATOM	7146	CG	GLU	X	647	64.141	96.600	114.017	1.00	0.00	C
ATOM	7147	HG2	GLU	X	647	63.415	96.937	114.757	1.00	0.00	H
ATOM	7148	HG3	GLU	X	647	63.805	96.319	113.020	1.00	0.00	H
ATOM	7149	CD	GLU	X	647	64.981	95.491	114.577	1.00	0.00	C
ATOM	7150	OE1	GLU	X	647	65.381	94.578	113.806	1.00	0.00	O
ATOM	7151	OE2	GLU	X	647	65.171	95.409	115.787	1.00	0.00	O
ATOM	7152	C	GLU	X	647	66.575	96.922	111.935	1.00	0.00	C
ATOM	7153	O	GLU	X	647	65.895	97.383	110.994	1.00	0.00	O
ATOM	7154	N	PRO	X	648	67.347	95.839	111.827	1.00	0.00	N
ATOM	7155	CD	PRO	X	648	68.348	95.418	112.773	1.00	0.00	C
ATOM	7156	HD2	PRO	X	648	67.872	94.966	113.645	1.00	0.00	H
ATOM	7157	HD3	PRO	X	648	68.892	96.262	113.194	1.00	0.00	H
ATOM	7158	CG	PRO	X	648	69.366	94.572	111.987	1.00	0.00	C
ATOM	7159	HG2	PRO	X	648	69.918	94.049	112.768	1.00	0.00	H
ATOM	7160	HG3	PRO	X	648	70.046	95.177	111.388	1.00	0.00	H
ATOM	7161	CB	PRO	X	648	68.346	93.750	111.200	1.00	0.00	C
ATOM	7162	HB2	PRO	X	648	67.801	93.000	111.773	1.00	0.00	H
ATOM	7163	HB3	PRO	X	648	68.876	93.124	110.482	1.00	0.00	H
ATOM	7164	CA	PRO	X	648	67.452	94.953	110.727	1.00	0.00	C
ATOM	7165	HA	PRO	X	648	68.026	95.509	109.985	1.00	0.00	H
ATOM	7166	C	PRO	X	648	66.082	94.493	110.166	1.00	0.00	C
ATOM	7167	O	PRO	X	648	65.938	94.378	108.943	1.00	0.00	O
ATOM	7168	N	HID	X	649	65.023	94.344	110.956	1.00	0.00	N
ATOM	7169	H	HID	X	649	65.111	94.373	111.961	1.00	0.00	H
ATOM	7170	CA	HID	X	649	63.757	94.003	110.375	1.00	0.00	C
ATOM	7171	HA	HID	X	649	63.842	93.183	109.663	1.00	0.00	H
ATOM	7172	CB	HID	X	649	62.848	93.419	111.473	1.00	0.00	C
ATOM	7173	HB2	HID	X	649	62.753	94.136	112.287	1.00	0.00	H
ATOM	7174	HB3	HID	X	649	61.848	93.312	111.050	1.00	0.00	H
ATOM	7175	CG	HID	X	649	63.375	92.198	112.100	1.00	0.00	C
ATOM	7176	ND1	HID	X	649	64.364	92.166	113.077	1.00	0.00	N
ATOM	7177	HD1	HID	X	649	64.879	92.945	113.462	1.00	0.00	H
ATOM	7178	CE1	HID	X	649	64.478	90.831	113.455	1.00	0.00	C
ATOM	7179	HE1	HID	X	649	65.061	90.533	114.315	1.00	0.00	H
ATOM	7180	NE2	HID	X	649	63.763	90.089	112.635	1.00	0.00	N
ATOM	7181	CD2	HID	X	649	62.961	90.906	111.834	1.00	0.00	C
ATOM	7182	HD2	HID	X	649	62.304	90.679	111.007	1.00	0.00	H
ATOM	7183	C	HID	X	649	63.046	95.208	109.721	1.00	0.00	C
ATOM	7184	O	HID	X	649	62.422	94.949	108.706	1.00	0.00	O
ATOM	7185	N	ASN	X	650	63.254	96.432	110.199	1.00	0.00	N
ATOM	7186	H	ASN	X	650	63.811	96.434	111.041	1.00	0.00	H
ATOM	7187	CA	ASN	X	650	62.760	97.709	109.623	1.00	0.00	C
ATOM	7188	HA	ASN	X	650	61.712	97.650	109.328	1.00	0.00	H
ATOM	7189	CB	ASN	X	650	62.863	98.802	110.742	1.00	0.00	C
ATOM	7190	HB2	ASN	X	650	63.809	98.776	111.283	1.00	0.00	H
ATOM	7191	HB3	ASN	X	650	62.702	99.785	110.302	1.00	0.00	H
ATOM	7192	CG	ASN	X	650	61.871	98.646	111.890	1.00	0.00	C
ATOM	7193	OD1	ASN	X	650	61.352	97.598	112.056	1.00	0.00	O
ATOM	7194	ND2	ASN	X	650	61.609	99.682	112.692	1.00	0.00	N
ATOM	7195	HD21	ASN	X	650	61.105	99.450	113.535	1.00	0.00	H
ATOM	7196	HD22	ASN	X	650	62.061	100.572	112.541	1.00	0.00	H
ATOM	7197	C	ASN	X	650	63.588	98.111	108.407	1.00	0.00	C
ATOM	7198	O	ASN	X	650	63.103	98.603	107.379	1.00	0.00	O
ATOM	7199	N	LEU	X	651	64.944	97.952	108.378	1.00	0.00	N
ATOM	7200	H	LEU	X	651	65.350	97.746	109.278	1.00	0.00	H
ATOM	7201	CA	LEU	X	651	65.796	97.986	107.205	1.00	0.00	C
ATOM	7202	HA	LEU	X	651	65.862	99.004	106.824	1.00	0.00	H
ATOM	7203	CB	LEU	X	651	67.272	97.786	107.602	1.00	0.00	C
ATOM	7204	HB2	LEU	X	651	67.689	98.681	108.065	1.00	0.00	H
ATOM	7205	HB3	LEU	X	651	67.340	96.987	108.341	1.00	0.00	H
ATOM	7206	CG	LEU	X	651	68.327	97.565	106.455	1.00	0.00	C
ATOM	7207	HG	LEU	X	651	67.972	97.969	105.508	1.00	0.00	H
ATOM	7208	CD1	LEU	X	651	69.672	98.209	106.829	1.00	0.00	C
ATOM	7209	HD11	LEU	X	651	70.382	97.861	106.079	1.00	0.00	H
ATOM	7210	HD12	LEU	X	651	69.564	99.294	106.854	1.00	0.00	H
ATOM	7211	HD13	LEU	X	651	70.093	97.959	107.803	1.00	0.00	H
ATOM	7212	CD2	LEU	X	651	68.454	96.063	106.217	1.00	0.00	C
ATOM	7213	HD21	LEU	X	651	67.501	95.647	105.890	1.00	0.00	H
ATOM	7214	HD22	LEU	X	651	69.165	95.793	105.436	1.00	0.00	H

ATOM	7215	HD23	LEU	X	651	68.746	95.616	107.169	1.00	0.00	H
ATOM	7216	C	LEU	X	651	65.385	96.901	106.179	1.00	0.00	C
ATOM	7217	O	LEU	X	651	65.311	97.257	105.035	1.00	0.00	O
ATOM	7218	N	GLN	X	652	65.077	95.695	106.638	1.00	0.00	N
ATOM	7219	H	GLN	X	652	65.141	95.438	107.613	1.00	0.00	H
ATOM	7220	CA	GLN	X	652	64.487	94.703	105.728	1.00	0.00	C
ATOM	7221	HA	GLN	X	652	65.154	94.556	104.879	1.00	0.00	H
ATOM	7222	CB	GLN	X	652	64.376	93.363	106.463	1.00	0.00	C
ATOM	7223	HB2	GLN	X	652	64.183	93.534	107.523	1.00	0.00	H
ATOM	7224	HB3	GLN	X	652	63.518	92.861	106.014	1.00	0.00	H
ATOM	7225	CG	GLN	X	652	65.628	92.470	106.258	1.00	0.00	C
ATOM	7226	HG2	GLN	X	652	65.538	92.138	105.224	1.00	0.00	H
ATOM	7227	HG3	GLN	X	652	66.531	93.040	106.477	1.00	0.00	H
ATOM	7228	CD	GLN	X	652	65.747	91.233	107.148	1.00	0.00	C
ATOM	7229	OE1	GLN	X	652	65.915	90.085	106.736	1.00	0.00	O
ATOM	7230	NE2	GLN	X	652	65.571	91.395	108.415	1.00	0.00	N
ATOM	7231	HE21	GLN	X	652	65.546	90.507	108.896	1.00	0.00	H
ATOM	7232	HE22	GLN	X	652	65.577	92.272	108.916	1.00	0.00	H
ATOM	7233	C	GLN	X	652	63.186	95.192	105.094	1.00	0.00	C
ATOM	7234	O	GLN	X	652	63.120	95.201	103.842	1.00	0.00	O
ATOM	7235	N	ILE	X	653	62.178	95.769	105.801	1.00	0.00	N
ATOM	7236	H	ILE	X	653	62.273	95.793	106.806	1.00	0.00	H
ATOM	7237	CA	ILE	X	653	60.887	96.292	105.214	1.00	0.00	C
ATOM	7238	HA	ILE	X	653	60.415	95.521	104.605	1.00	0.00	H
ATOM	7239	CB	ILE	X	653	59.946	96.628	106.407	1.00	0.00	C
ATOM	7240	HB	ILE	X	653	60.495	97.284	107.081	1.00	0.00	H
ATOM	7241	CG2	ILE	X	653	58.691	97.439	105.997	1.00	0.00	C
ATOM	7242	HG21	ILE	X	653	58.260	97.815	106.926	1.00	0.00	H
ATOM	7243	HG22	ILE	X	653	58.945	98.291	105.368	1.00	0.00	H
ATOM	7244	HG23	ILE	X	653	58.032	96.733	105.491	1.00	0.00	H
ATOM	7245	CG1	ILE	X	653	59.446	95.295	107.052	1.00	0.00	C
ATOM	7246	HG12	ILE	X	653	58.671	94.822	106.448	1.00	0.00	H
ATOM	7247	HG13	ILE	X	653	60.332	94.694	107.253	1.00	0.00	H
ATOM	7248	CD1	ILE	X	653	58.908	95.578	108.494	1.00	0.00	C
ATOM	7249	HD11	ILE	X	653	58.665	94.657	109.024	1.00	0.00	H
ATOM	7250	HD12	ILE	X	653	59.606	96.045	109.189	1.00	0.00	H
ATOM	7251	HD13	ILE	X	653	58.052	96.251	108.450	1.00	0.00	H
ATOM	7252	C	ILE	X	653	61.113	97.520	104.317	1.00	0.00	C
ATOM	7253	O	ILE	X	653	60.639	97.606	103.157	1.00	0.00	O
ATOM	7254	N	THR	X	654	62.094	98.327	104.703	1.00	0.00	N
ATOM	7255	H	THR	X	654	62.505	98.198	105.616	1.00	0.00	H
ATOM	7256	CA	THR	X	654	62.553	99.456	103.892	1.00	0.00	C
ATOM	7257	HA	THR	X	654	61.777	100.191	103.678	1.00	0.00	H
ATOM	7258	CB	THR	X	654	63.574	100.301	104.675	1.00	0.00	C
ATOM	7259	HB	THR	X	654	64.429	99.702	104.990	1.00	0.00	H
ATOM	7260	CG2	THR	X	654	64.075	101.506	103.862	1.00	0.00	C
ATOM	7261	HG21	THR	X	654	64.832	101.153	103.162	1.00	0.00	H
ATOM	7262	HG22	THR	X	654	63.302	102.062	103.332	1.00	0.00	H
ATOM	7263	HG23	THR	X	654	64.617	102.236	104.461	1.00	0.00	H
ATOM	7264	OG1	THR	X	654	63.107	100.800	105.937	1.00	0.00	O
ATOM	7265	HG1	THR	X	654	63.224	100.040	106.512	1.00	0.00	H
ATOM	7266	C	THR	X	654	63.186	98.968	102.543	1.00	0.00	C
ATOM	7267	O	THR	X	654	63.147	99.639	101.540	1.00	0.00	O
ATOM	7268	N	ALA	X	655	63.913	97.830	102.526	1.00	0.00	N
ATOM	7269	H	ALA	X	655	64.175	97.291	103.339	1.00	0.00	H
ATOM	7270	CA	ALA	X	655	64.417	97.254	101.279	1.00	0.00	C
ATOM	7271	HA	ALA	X	655	64.870	98.115	100.788	1.00	0.00	H
ATOM	7272	CB	ALA	X	655	65.477	96.325	101.836	1.00	0.00	C
ATOM	7273	HB1	ALA	X	655	65.063	95.325	101.958	1.00	0.00	H
ATOM	7274	HB2	ALA	X	655	66.318	96.244	101.147	1.00	0.00	H
ATOM	7275	HB3	ALA	X	655	65.983	96.732	102.709	1.00	0.00	H
ATOM	7276	C	ALA	X	655	63.384	96.672	100.269	1.00	0.00	C
ATOM	7277	O	ALA	X	655	63.596	96.701	99.070	1.00	0.00	O
ATOM	7278	N	ALA	X	656	62.245	96.296	100.837	1.00	0.00	N
ATOM	7279	H	ALA	X	656	62.173	96.239	101.842	1.00	0.00	H
ATOM	7280	CA	ALA	X	656	61.236	95.738	99.994	1.00	0.00	C
ATOM	7281	HA	ALA	X	656	61.550	95.119	99.153	1.00	0.00	H
ATOM	7282	CB	ALA	X	656	60.312	94.977	100.946	1.00	0.00	C
ATOM	7283	HB1	ALA	X	656	60.064	95.699	101.724	1.00	0.00	H
ATOM	7284	HB2	ALA	X	656	59.475	94.618	100.350	1.00	0.00	H
ATOM	7285	HB3	ALA	X	656	60.754	94.123	101.460	1.00	0.00	H
ATOM	7286	C	ALA	X	656	60.301	96.820	99.340	1.00	0.00	C
ATOM	7287	O	ALA	X	656	60.024	96.657	98.164	1.00	0.00	O
ATOM	7288	N	PHE	X	657	60.084	97.894	100.098	1.00	0.00	N
ATOM	7289	H	PHE	X	657	60.174	97.811	101.101	1.00	0.00	H
ATOM	7290	CA	PHE	X	657	59.584	99.102	99.519	1.00	0.00	C
ATOM	7291	HA	PHE	X	657	58.720	98.819	98.918	1.00	0.00	H
ATOM	7292	CB	PHE	X	657	59.292	100.122	100.604	1.00	0.00	C
ATOM	7293	HB2	PHE	X	657	60.076	100.135	101.362	1.00	0.00	H
ATOM	7294	HB3	PHE	X	657	59.245	101.135	100.201	1.00	0.00	H
ATOM	7295	CG	PHE	X	657	57.999	99.870	101.376	1.00	0.00	C
ATOM	7296	CD1	PHE	X	657	56.811	99.855	100.603	1.00	0.00	C

ATOM	7297	HD1	PHE	X	657	56.830	100.093	99.550	1.00	0.00	H
ATOM	7298	CE1	PHE	X	657	55.623	99.651	101.272	1.00	0.00	C
ATOM	7299	HE1	PHE	X	657	54.768	99.371	100.673	1.00	0.00	H
ATOM	7300	CZ	PHE	X	657	55.641	99.304	102.646	1.00	0.00	C
ATOM	7301	HZ	PHE	X	657	54.724	98.910	103.060	1.00	0.00	H
ATOM	7302	CE2	PHE	X	657	56.818	99.365	103.407	1.00	0.00	C
ATOM	7303	HE2	PHE	X	657	56.823	99.039	104.436	1.00	0.00	H
ATOM	7304	CD2	PHE	X	657	58.020	99.650	102.771	1.00	0.00	C
ATOM	7305	HD2	PHE	X	657	58.951	99.564	103.309	1.00	0.00	H
ATOM	7306	C	PHE	X	657	60.633	99.673	98.503	1.00	0.00	C
ATOM	7307	O	PHE	X	657	60.213	100.115	97.444	1.00	0.00	O
ATOM	7308	N	LEU	X	658	61.927	99.569	98.755	1.00	0.00	N
ATOM	7309	H	LEU	X	658	62.232	99.282	99.673	1.00	0.00	H
ATOM	7310	CA	LEU	X	658	62.990	100.273	97.911	1.00	0.00	C
ATOM	7311	HA	LEU	X	658	62.670	101.296	97.709	1.00	0.00	H
ATOM	7312	CB	LEU	X	658	64.346	100.258	98.629	1.00	0.00	C
ATOM	7313	HB2	LEU	X	658	64.285	100.695	99.626	1.00	0.00	H
ATOM	7314	HB3	LEU	X	658	64.766	99.268	98.795	1.00	0.00	H
ATOM	7315	CG	LEU	X	658	65.307	101.083	97.868	1.00	0.00	C
ATOM	7316	HG	LEU	X	658	65.326	100.702	96.847	1.00	0.00	H
ATOM	7317	CD1	LEU	X	658	64.941	102.620	97.933	1.00	0.00	C
ATOM	7318	HD11	LEU	X	658	64.526	102.846	98.916	1.00	0.00	H
ATOM	7319	HD12	LEU	X	658	65.809	103.249	97.739	1.00	0.00	H
ATOM	7320	HD13	LEU	X	658	64.199	102.892	97.181	1.00	0.00	H
ATOM	7321	CD2	LEU	X	658	66.695	100.912	98.473	1.00	0.00	C
ATOM	7322	HD21	LEU	X	658	66.680	101.399	99.450	1.00	0.00	H
ATOM	7323	HD22	LEU	X	658	67.070	99.890	98.528	1.00	0.00	H
ATOM	7324	HD23	LEU	X	658	67.485	101.511	98.021	1.00	0.00	H
ATOM	7325	C	LEU	X	658	62.987	99.454	96.552	1.00	0.00	C
ATOM	7326	O	LEU	X	658	62.932	100.171	95.508	1.00	0.00	O
ATOM	7327	N	ALA	X	659	62.935	98.134	96.626	1.00	0.00	N
ATOM	7328	H	ALA	X	659	63.061	97.776	97.562	1.00	0.00	H
ATOM	7329	CA	ALA	X	659	62.881	97.265	95.473	1.00	0.00	C
ATOM	7330	HA	ALA	X	659	63.623	97.541	94.723	1.00	0.00	H
ATOM	7331	CB	ALA	X	659	63.215	95.808	95.908	1.00	0.00	C
ATOM	7332	HB1	ALA	X	659	63.104	95.234	94.989	1.00	0.00	H
ATOM	7333	HB2	ALA	X	659	64.247	95.755	96.251	1.00	0.00	H
ATOM	7334	HB3	ALA	X	659	62.609	95.376	96.705	1.00	0.00	H
ATOM	7335	C	ALA	X	659	61.550	97.340	94.707	1.00	0.00	C
ATOM	7336	O	ALA	X	659	61.593	97.256	93.473	1.00	0.00	O
ATOM	7337	N	GLY	X	660	60.429	97.594	95.394	1.00	0.00	N
ATOM	7338	H	GLY	X	660	60.430	97.578	96.404	1.00	0.00	H
ATOM	7339	CA	GLY	X	660	59.102	97.645	94.699	1.00	0.00	C
ATOM	7340	HA2	GLY	X	660	59.133	96.822	93.986	1.00	0.00	H
ATOM	7341	HA3	GLY	X	660	58.287	97.400	95.379	1.00	0.00	H
ATOM	7342	C	GLY	X	660	58.929	99.009	94.022	1.00	0.00	C
ATOM	7343	O	GLY	X	660	58.236	99.074	93.022	1.00	0.00	O
ATOM	7344	N	LEU	X	661	59.569	100.132	94.539	1.00	0.00	N
ATOM	7345	H	LEU	X	661	60.058	99.922	95.398	1.00	0.00	H
ATOM	7346	CA	LEU	X	661	59.459	101.492	93.946	1.00	0.00	C
ATOM	7347	HA	LEU	X	661	58.429	101.641	93.619	1.00	0.00	H
ATOM	7348	CB	LEU	X	661	59.734	102.505	95.080	1.00	0.00	C
ATOM	7349	HB2	LEU	X	661	60.546	102.212	95.746	1.00	0.00	H
ATOM	7350	HB3	LEU	X	661	60.131	103.412	94.625	1.00	0.00	H
ATOM	7351	CG	LEU	X	661	58.659	102.821	96.119	1.00	0.00	C
ATOM	7352	HG	LEU	X	661	58.349	101.936	96.676	1.00	0.00	H
ATOM	7353	CD1	LEU	X	661	59.120	103.784	97.144	1.00	0.00	C
ATOM	7354	HD11	LEU	X	661	59.314	104.810	96.827	1.00	0.00	H
ATOM	7355	HD12	LEU	X	661	58.436	103.829	97.991	1.00	0.00	H
ATOM	7356	HD13	LEU	X	661	60.107	103.521	97.524	1.00	0.00	H
ATOM	7357	CD2	LEU	X	661	57.390	103.445	95.499	1.00	0.00	C
ATOM	7358	HD21	LEU	X	661	56.687	103.711	96.291	1.00	0.00	H
ATOM	7359	HD22	LEU	X	661	57.601	104.326	94.895	1.00	0.00	H
ATOM	7360	HD23	LEU	X	661	56.827	102.694	94.946	1.00	0.00	H
ATOM	7361	C	LEU	X	661	60.464	101.588	92.821	1.00	0.00	C
ATOM	7362	O	LEU	X	661	60.339	102.441	91.991	1.00	0.00	O
ATOM	7363	N	LEU	X	662	61.560	100.737	92.894	1.00	0.00	N
ATOM	7364	H	LEU	X	662	61.779	100.426	93.830	1.00	0.00	H
ATOM	7365	CA	LEU	X	662	62.489	100.405	91.758	1.00	0.00	C
ATOM	7366	HA	LEU	X	662	62.609	101.311	91.163	1.00	0.00	H
ATOM	7367	CB	LEU	X	662	63.870	100.205	92.433	1.00	0.00	C
ATOM	7368	HB2	LEU	X	662	63.803	99.450	93.216	1.00	0.00	H
ATOM	7369	HB3	LEU	X	662	64.588	99.835	91.701	1.00	0.00	H
ATOM	7370	CG	LEU	X	662	64.401	101.456	93.146	1.00	0.00	C
ATOM	7371	HG	LEU	X	662	63.704	101.880	93.869	1.00	0.00	H
ATOM	7372	CD1	LEU	X	662	65.768	101.105	93.785	1.00	0.00	C
ATOM	7373	HD11	LEU	X	662	65.568	100.391	94.582	1.00	0.00	H
ATOM	7374	HD12	LEU	X	662	66.434	100.675	93.037	1.00	0.00	H
ATOM	7375	HD13	LEU	X	662	66.174	101.922	94.383	1.00	0.00	H
ATOM	7376	CD2	LEU	X	662	64.643	102.562	92.107	1.00	0.00	C
ATOM	7377	HD21	LEU	X	662	65.135	102.141	91.231	1.00	0.00	H
ATOM	7378	HD22	LEU	X	662	63.707	103.026	91.794	1.00	0.00	H

ATOM	7379	HD23	LEU	X	662	65.410	103.263	92.434	1.00	0.00	H
ATOM	7380	C	LEU	X	662	62.089	99.334	90.769	1.00	0.00	C
ATOM	7381	O	LEU	X	662	62.814	99.100	89.812	1.00	0.00	O
ATOM	7382	N	SER	X	663	60.892	98.786	90.933	1.00	0.00	N
ATOM	7383	H	SER	X	663	60.473	99.039	91.817	1.00	0.00	H
ATOM	7384	CA	SER	X	663	60.151	97.979	89.882	1.00	0.00	C
ATOM	7385	HA	SER	X	663	60.864	97.189	89.647	1.00	0.00	H
ATOM	7386	CB	SER	X	663	58.769	97.351	90.228	1.00	0.00	C
ATOM	7387	HB2	SER	X	663	58.842	96.667	91.074	1.00	0.00	H
ATOM	7388	HB3	SER	X	663	58.121	98.195	90.457	1.00	0.00	H
ATOM	7389	OG	SER	X	663	58.375	96.624	89.136	1.00	0.00	O
ATOM	7390	HG	SER	X	663	58.782	95.756	89.173	1.00	0.00	H
ATOM	7391	C	SER	X	663	60.069	98.810	88.598	1.00	0.00	C
ATOM	7392	O	SER	X	663	59.671	99.992	88.612	1.00	0.00	O
ATOM	7393	N	ARG	X	664	60.276	98.167	87.363	1.00	0.00	N
ATOM	7394	H	ARG	X	664	60.613	97.217	87.425	1.00	0.00	H
ATOM	7395	CA	ARG	X	664	60.039	98.836	86.116	1.00	0.00	C
ATOM	7396	HA	ARG	X	664	60.690	99.709	86.149	1.00	0.00	H
ATOM	7397	CB	ARG	X	664	60.505	97.896	85.004	1.00	0.00	C
ATOM	7398	HB2	ARG	X	664	60.750	98.571	84.184	1.00	0.00	H
ATOM	7399	HB3	ARG	X	664	61.490	97.467	85.188	1.00	0.00	H
ATOM	7400	CG	ARG	X	664	59.508	96.780	84.558	1.00	0.00	C
ATOM	7401	HG2	ARG	X	664	58.645	97.168	84.020	1.00	0.00	H
ATOM	7402	HG3	ARG	X	664	60.009	96.154	83.819	1.00	0.00	H
ATOM	7403	CD	ARG	X	664	59.245	95.693	85.617	1.00	0.00	C
ATOM	7404	HD2	ARG	X	664	60.201	95.405	86.055	1.00	0.00	H
ATOM	7405	HD3	ARG	X	664	58.786	96.196	86.467	1.00	0.00	H
ATOM	7406	NE	ARG	X	664	58.298	94.602	85.211	1.00	0.00	N
ATOM	7407	HE	ARG	X	664	57.315	94.831	85.244	1.00	0.00	H
ATOM	7408	CZ	ARG	X	664	58.632	93.361	84.939	1.00	0.00	C
ATOM	7409	NH1	ARG	X	664	59.853	93.024	84.647	1.00	0.00	N
ATOM	7410	HH11	ARG	X	664	60.555	93.722	84.845	1.00	0.00	H
ATOM	7411	HH12	ARG	X	664	60.041	92.032	84.614	1.00	0.00	H
ATOM	7412	NH2	ARG	X	664	57.769	92.437	84.764	1.00	0.00	N
ATOM	7413	HH21	ARG	X	664	56.777	92.545	84.913	1.00	0.00	H
ATOM	7414	HH22	ARG	X	664	58.144	91.504	84.669	1.00	0.00	H
ATOM	7415	C	ARG	X	664	58.621	99.261	85.938	1.00	0.00	C
ATOM	7416	O	ARG	X	664	58.313	100.174	85.196	1.00	0.00	O
ATOM	7417	N	GLU	X	665	57.641	98.636	86.556	1.00	0.00	N
ATOM	7418	H	GLU	X	665	57.860	97.948	87.262	1.00	0.00	H
ATOM	7419	CA	GLU	X	665	56.241	98.996	86.467	1.00	0.00	C
ATOM	7420	HA	GLU	X	665	56.018	98.924	85.402	1.00	0.00	H
ATOM	7421	CB	GLU	X	665	55.343	97.955	87.246	1.00	0.00	C
ATOM	7422	HB2	GLU	X	665	55.706	98.033	88.270	1.00	0.00	H
ATOM	7423	HB3	GLU	X	665	54.276	98.173	87.215	1.00	0.00	H
ATOM	7424	CG	GLU	X	665	55.626	96.429	86.888	1.00	0.00	C
ATOM	7425	HG2	GLU	X	665	56.684	96.227	87.055	1.00	0.00	H
ATOM	7426	HG3	GLU	X	665	55.034	95.766	87.521	1.00	0.00	H
ATOM	7427	CD	GLU	X	665	55.127	96.079	85.469	1.00	0.00	C
ATOM	7428	OE1	GLU	X	665	55.628	95.130	84.845	1.00	0.00	O
ATOM	7429	OE2	GLU	X	665	54.201	96.752	84.940	1.00	0.00	O
ATOM	7430	C	GLU	X	665	55.887	100.440	86.966	1.00	0.00	C
ATOM	7431	O	GLU	X	665	54.809	100.972	86.759	1.00	0.00	O
ATOM	7432	N	HIE	X	666	56.817	101.122	87.722	1.00	0.00	N
ATOM	7433	H	HIE	X	666	57.491	100.563	88.226	1.00	0.00	H
ATOM	7434	CA	HIE	X	666	56.695	102.529	88.170	1.00	0.00	C
ATOM	7435	HA	HIE	X	666	55.712	102.988	88.064	1.00	0.00	H
ATOM	7436	CB	HIE	X	666	56.716	102.564	89.695	1.00	0.00	C
ATOM	7437	HB2	HIE	X	666	57.665	102.557	90.231	1.00	0.00	H
ATOM	7438	HB3	HIE	X	666	56.295	103.516	90.017	1.00	0.00	H
ATOM	7439	CG	HIE	X	666	55.890	101.412	90.235	1.00	0.00	C
ATOM	7440	ND1	HIE	X	666	54.517	101.286	90.061	1.00	0.00	N
ATOM	7441	CE1	HIE	X	666	54.257	100.042	90.518	1.00	0.00	C
ATOM	7442	HE1	HIE	X	666	53.267	99.612	90.496	1.00	0.00	H
ATOM	7443	NE2	HIE	X	666	55.356	99.392	91.016	1.00	0.00	N
ATOM	7444	HE2	HIE	X	666	55.416	98.396	91.171	1.00	0.00	H
ATOM	7445	CD2	HIE	X	666	56.441	100.294	90.853	1.00	0.00	C
ATOM	7446	HD2	HIE	X	666	57.496	100.102	90.987	1.00	0.00	H
ATOM	7447	C	HIE	X	666	57.838	103.440	87.605	1.00	0.00	C
ATOM	7448	O	HIE	X	666	58.052	104.552	88.047	1.00	0.00	O
ATOM	7449	N	ARG	X	667	58.503	102.972	86.607	1.00	0.00	N
ATOM	7450	H	ARG	X	667	58.388	101.994	86.386	1.00	0.00	H
ATOM	7451	CA	ARG	X	667	59.652	103.712	85.861	1.00	0.00	C
ATOM	7452	HA	ARG	X	667	60.382	104.113	86.565	1.00	0.00	H
ATOM	7453	CB	ARG	X	667	60.318	102.743	84.917	1.00	0.00	C
ATOM	7454	HB2	ARG	X	667	60.624	101.827	85.422	1.00	0.00	H
ATOM	7455	HB3	ARG	X	667	59.568	102.458	84.179	1.00	0.00	H
ATOM	7456	CG	ARG	X	667	61.613	103.390	84.407	1.00	0.00	C
ATOM	7457	HG2	ARG	X	667	61.350	104.331	83.921	1.00	0.00	H
ATOM	7458	HG3	ARG	X	667	62.306	103.657	85.204	1.00	0.00	H
ATOM	7459	CD	ARG	X	667	62.294	102.549	83.263	1.00	0.00	C
ATOM	7460	HD2	ARG	X	667	62.511	101.531	83.592	1.00	0.00	H

ATOM	7461	HD3	ARG	X	667	61.576	102.445	82.450	1.00	0.00	H
ATOM	7462	NE	ARG	X	667	63.418	103.206	82.655	1.00	0.00	N
ATOM	7463	HE	ARG	X	667	63.775	104.080	83.014	1.00	0.00	H
ATOM	7464	CZ	ARG	X	667	63.939	102.876	81.512	1.00	0.00	C
ATOM	7465	NH1	ARG	X	667	63.546	101.852	80.823	1.00	0.00	N
ATOM	7466	HH11	ARG	X	667	62.715	101.346	81.097	1.00	0.00	H
ATOM	7467	HH12	ARG	X	667	63.864	101.717	79.874	1.00	0.00	H
ATOM	7468	NH2	ARG	X	667	64.847	103.625	80.993	1.00	0.00	N
ATOM	7469	HH21	ARG	X	667	65.202	104.417	81.508	1.00	0.00	H
ATOM	7470	HH22	ARG	X	667	64.984	103.595	79.993	1.00	0.00	H
ATOM	7471	C	ARG	X	667	59.139	104.833	85.009	1.00	0.00	C
ATOM	7472	O	ARG	X	667	59.691	105.934	85.141	1.00	0.00	O
ATOM	7473	N	ASP	X	668	58.116	104.630	84.165	1.00	0.00	N
ATOM	7474	H	ASP	X	668	57.862	103.679	83.937	1.00	0.00	H
ATOM	7475	CA	ASP	X	668	57.666	105.739	83.386	1.00	0.00	C
ATOM	7476	HA	ASP	X	668	58.556	106.034	82.830	1.00	0.00	H
ATOM	7477	CB	ASP	X	668	56.665	105.219	82.296	1.00	0.00	C
ATOM	7478	HB2	ASP	X	668	55.889	104.625	82.778	1.00	0.00	H
ATOM	7479	HB3	ASP	X	668	56.095	105.996	81.785	1.00	0.00	H
ATOM	7480	CG	ASP	X	668	57.351	104.453	81.137	1.00	0.00	C
ATOM	7481	OD1	ASP	X	668	56.701	103.515	80.677	1.00	0.00	O
ATOM	7482	OD2	ASP	X	668	58.498	104.734	80.703	1.00	0.00	O
ATOM	7483	C	ASP	X	668	56.951	106.805	84.162	1.00	0.00	C
ATOM	7484	O	ASP	X	668	57.073	108.024	83.931	1.00	0.00	O
ATOM	7485	N	LEU	X	669	56.309	106.403	85.298	1.00	0.00	N
ATOM	7486	H	LEU	X	669	56.373	105.425	85.545	1.00	0.00	H
ATOM	7487	CA	LEU	X	669	55.649	107.267	86.244	1.00	0.00	C
ATOM	7488	HA	LEU	X	669	54.904	107.901	85.763	1.00	0.00	H
ATOM	7489	CB	LEU	X	669	54.835	106.263	87.165	1.00	0.00	C
ATOM	7490	HB2	LEU	X	669	53.951	105.905	86.635	1.00	0.00	H
ATOM	7491	HB3	LEU	X	669	55.396	105.378	87.467	1.00	0.00	H
ATOM	7492	CG	LEU	X	669	54.286	106.884	88.479	1.00	0.00	C
ATOM	7493	HG	LEU	X	669	55.113	107.061	89.165	1.00	0.00	H
ATOM	7494	CD1	LEU	X	669	53.503	108.132	88.128	1.00	0.00	C
ATOM	7495	HD11	LEU	X	669	54.173	108.966	87.921	1.00	0.00	H
ATOM	7496	HD12	LEU	X	669	52.901	107.806	87.280	1.00	0.00	H
ATOM	7497	HD13	LEU	X	669	52.833	108.441	88.931	1.00	0.00	H
ATOM	7498	CD2	LEU	X	669	53.292	105.837	89.120	1.00	0.00	C
ATOM	7499	HD21	LEU	X	669	53.776	104.876	89.299	1.00	0.00	H
ATOM	7500	HD22	LEU	X	669	53.089	106.183	90.134	1.00	0.00	H
ATOM	7501	HD23	LEU	X	669	52.367	105.648	88.574	1.00	0.00	H
ATOM	7502	C	LEU	X	669	56.609	108.111	87.077	1.00	0.00	C
ATOM	7503	O	LEU	X	669	56.422	109.341	87.109	1.00	0.00	O
ATOM	7504	N	LEU	X	670	57.624	107.482	87.643	1.00	0.00	N
ATOM	7505	H	LEU	X	670	57.745	106.481	87.584	1.00	0.00	H
ATOM	7506	CA	LEU	X	670	58.666	108.180	88.362	1.00	0.00	C
ATOM	7507	HA	LEU	X	670	58.122	108.896	88.978	1.00	0.00	H
ATOM	7508	CB	LEU	X	670	59.344	107.271	89.408	1.00	0.00	C
ATOM	7509	HB2	LEU	X	670	59.572	106.341	88.887	1.00	0.00	H
ATOM	7510	HB3	LEU	X	670	60.279	107.677	89.796	1.00	0.00	H
ATOM	7511	CG	LEU	X	670	58.483	106.824	90.626	1.00	0.00	C
ATOM	7512	HG	LEU	X	670	57.575	106.284	90.356	1.00	0.00	H
ATOM	7513	CD1	LEU	X	670	59.299	105.901	91.546	1.00	0.00	C
ATOM	7514	HD11	LEU	X	670	58.569	105.654	92.318	1.00	0.00	H
ATOM	7515	HD12	LEU	X	670	59.611	104.981	91.051	1.00	0.00	H
ATOM	7516	HD13	LEU	X	670	60.109	106.368	92.105	1.00	0.00	H
ATOM	7517	CD2	LEU	X	670	58.090	108.071	91.492	1.00	0.00	C
ATOM	7518	HD21	LEU	X	670	58.942	108.680	91.792	1.00	0.00	H
ATOM	7519	HD22	LEU	X	670	57.522	108.767	90.876	1.00	0.00	H
ATOM	7520	HD23	LEU	X	670	57.657	107.627	92.388	1.00	0.00	H
ATOM	7521	C	LEU	X	670	59.636	108.882	87.361	1.00	0.00	C
ATOM	7522	O	LEU	X	670	60.375	109.794	87.779	1.00	0.00	O
ATOM	7523	N	ALA	X	671	59.635	108.556	86.093	1.00	0.00	N
ATOM	7524	H	ALA	X	671	59.076	107.791	85.743	1.00	0.00	H
ATOM	7525	CA	ALA	X	671	60.418	109.309	85.047	1.00	0.00	C
ATOM	7526	HA	ALA	X	671	61.430	109.552	85.372	1.00	0.00	H
ATOM	7527	CB	ALA	X	671	60.532	108.435	83.787	1.00	0.00	C
ATOM	7528	HB1	ALA	X	671	61.301	107.665	83.841	1.00	0.00	H
ATOM	7529	HB2	ALA	X	671	59.647	107.960	83.362	1.00	0.00	H
ATOM	7530	HB3	ALA	X	671	60.727	109.052	82.910	1.00	0.00	H
ATOM	7531	C	ALA	X	671	59.680	110.689	84.813	1.00	0.00	C
ATOM	7532	O	ALA	X	671	60.290	111.778	84.641	1.00	0.00	O
ATOM	7533	N	ALA	X	672	58.356	110.624	84.683	1.00	0.00	N
ATOM	7534	H	ALA	X	672	57.844	109.757	84.765	1.00	0.00	H
ATOM	7535	CA	ALA	X	672	57.523	111.781	84.584	1.00	0.00	C
ATOM	7536	HA	ALA	X	672	57.802	112.294	83.664	1.00	0.00	H
ATOM	7537	CB	ALA	X	672	56.122	111.215	84.232	1.00	0.00	C
ATOM	7538	HB1	ALA	X	672	55.732	110.548	85.002	1.00	0.00	H
ATOM	7539	HB2	ALA	X	672	55.546	112.139	84.250	1.00	0.00	H
ATOM	7540	HB3	ALA	X	672	56.088	110.786	83.231	1.00	0.00	H
ATOM	7541	C	ALA	X	672	57.576	112.739	85.767	1.00	0.00	C
ATOM	7542	O	ALA	X	672	57.437	113.962	85.706	1.00	0.00	O

ATOM	7543	N	CYS	X	673	57.900	112.256	86.887	1.00	0.00	N
ATOM	7544	H	CYS	X	673	57.917	111.249	86.962	1.00	0.00	H
ATOM	7545	CA	CYS	X	673	58.174	113.072	88.095	1.00	0.00	C
ATOM	7546	HA	CYS	X	673	57.439	113.877	88.139	1.00	0.00	H
ATOM	7547	CB	CYS	X	673	58.167	112.226	89.429	1.00	0.00	C
ATOM	7548	HB2	CYS	X	673	58.985	111.508	89.416	1.00	0.00	H
ATOM	7549	HB3	CYS	X	673	58.401	112.922	90.235	1.00	0.00	H
ATOM	7550	SG	CYS	X	673	56.476	111.601	89.790	1.00	0.00	S
ATOM	7551	HG	CYS	X	673	56.333	110.633	88.880	1.00	0.00	H
ATOM	7552	C	CYS	X	673	59.509	113.798	88.033	1.00	0.00	C
ATOM	7553	O	CYS	X	673	59.890	114.496	88.942	1.00	0.00	O
ATOM	7554	N	GLN	X	674	60.301	113.707	86.919	1.00	0.00	N
ATOM	7555	H	GLN	X	674	59.980	113.139	86.148	1.00	0.00	H
ATOM	7556	CA	GLN	X	674	61.674	114.240	86.988	1.00	0.00	C
ATOM	7557	HA	GLN	X	674	61.835	114.972	87.781	1.00	0.00	H
ATOM	7558	CB	GLN	X	674	62.621	113.093	87.313	1.00	0.00	C
ATOM	7559	HB2	GLN	X	674	62.442	112.361	86.525	1.00	0.00	H
ATOM	7560	HB3	GLN	X	674	63.677	113.363	87.273	1.00	0.00	H
ATOM	7561	CG	GLN	X	674	62.400	112.528	88.727	1.00	0.00	C
ATOM	7562	HG2	GLN	X	674	62.181	113.282	89.485	1.00	0.00	H
ATOM	7563	HG3	GLN	X	674	61.553	111.843	88.661	1.00	0.00	H
ATOM	7564	CD	GLN	X	674	63.654	111.822	89.273	1.00	0.00	C
ATOM	7565	OE1	GLN	X	674	64.620	112.372	89.697	1.00	0.00	O
ATOM	7566	NE2	GLN	X	674	63.645	110.512	89.341	1.00	0.00	N
ATOM	7567	HE21	GLN	X	674	64.369	109.961	89.778	1.00	0.00	H
ATOM	7568	HE22	GLN	X	674	62.777	110.060	89.095	1.00	0.00	H
ATOM	7569	C	GLN	X	674	62.089	114.788	85.578	1.00	0.00	C
ATOM	7570	O	GLN	X	674	61.474	114.555	84.543	1.00	0.00	O
ATOM	7571	N	ALA	X	675	63.147	115.542	85.575	1.00	0.00	N
ATOM	7572	H	ALA	X	675	63.617	115.664	86.461	1.00	0.00	H
ATOM	7573	CA	ALA	X	675	63.610	116.289	84.452	1.00	0.00	C
ATOM	7574	HA	ALA	X	675	62.795	116.763	83.906	1.00	0.00	H
ATOM	7575	CB	ALA	X	675	64.550	117.396	84.956	1.00	0.00	C
ATOM	7576	HB1	ALA	X	675	65.081	117.921	84.161	1.00	0.00	H
ATOM	7577	HB2	ALA	X	675	63.907	118.106	85.477	1.00	0.00	H
ATOM	7578	HB3	ALA	X	675	65.284	116.934	85.617	1.00	0.00	H
ATOM	7579	C	ALA	X	675	64.428	115.354	83.485	1.00	0.00	C
ATOM	7580	O	ALA	X	675	64.185	115.359	82.274	1.00	0.00	O
ATOM	7581	N	SER	X	676	65.354	114.587	84.017	1.00	0.00	N
ATOM	7582	H	SER	X	676	65.578	114.696	84.996	1.00	0.00	H
ATOM	7583	CA	SER	X	676	65.945	113.388	83.328	1.00	0.00	C
ATOM	7584	HA	SER	X	676	65.332	113.169	82.452	1.00	0.00	H
ATOM	7585	CB	SER	X	676	67.309	113.781	82.774	1.00	0.00	C
ATOM	7586	HB2	SER	X	676	67.991	114.047	83.582	1.00	0.00	H
ATOM	7587	HB3	SER	X	676	67.756	112.862	82.397	1.00	0.00	H
ATOM	7588	OG	SER	X	676	67.321	114.736	81.784	1.00	0.00	O
ATOM	7589	HG	SER	X	676	66.762	114.397	81.083	1.00	0.00	H
ATOM	7590	C	SER	X	676	66.024	112.204	84.225	1.00	0.00	C
ATOM	7591	O	SER	X	676	66.159	112.313	85.466	1.00	0.00	O
ATOM	7592	N	GLU	X	677	66.058	111.078	83.573	1.00	0.00	N
ATOM	7593	H	GLU	X	677	66.069	111.043	82.565	1.00	0.00	H
ATOM	7594	CA	GLU	X	677	65.851	109.744	84.217	1.00	0.00	C
ATOM	7595	HA	GLU	X	677	65.182	109.870	85.068	1.00	0.00	H
ATOM	7596	CB	GLU	X	677	65.147	108.769	83.313	1.00	0.00	C
ATOM	7597	HB2	GLU	X	677	64.373	109.349	82.811	1.00	0.00	H
ATOM	7598	HB3	GLU	X	677	65.906	108.458	82.595	1.00	0.00	H
ATOM	7599	CG	GLU	X	677	64.415	107.488	83.944	1.00	0.00	C
ATOM	7600	HG2	GLU	X	677	64.430	107.527	85.033	1.00	0.00	H
ATOM	7601	HG3	GLU	X	677	63.418	107.472	83.503	1.00	0.00	H
ATOM	7602	CD	GLU	X	677	65.117	106.154	83.627	1.00	0.00	C
ATOM	7603	OE1	GLU	X	677	65.773	105.954	82.571	1.00	0.00	O
ATOM	7604	OE2	GLU	X	677	64.912	105.128	84.319	1.00	0.00	O
ATOM	7605	C	GLU	X	677	67.201	109.168	84.652	1.00	0.00	C
ATOM	7606	O	GLU	X	677	67.325	108.014	85.120	1.00	0.00	O
ATOM	7607	N	ARG	X	678	68.299	109.967	84.522	1.00	0.00	N
ATOM	7608	H	ARG	X	678	68.159	110.966	84.513	1.00	0.00	H
ATOM	7609	CA	ARG	X	678	69.682	109.394	84.663	1.00	0.00	C
ATOM	7610	HA	ARG	X	678	69.757	108.627	83.892	1.00	0.00	H
ATOM	7611	CB	ARG	X	678	70.761	110.438	84.314	1.00	0.00	C
ATOM	7612	HB2	ARG	X	678	70.545	110.944	83.373	1.00	0.00	H
ATOM	7613	HB3	ARG	X	678	70.770	111.268	85.022	1.00	0.00	H
ATOM	7614	CG	ARG	X	678	72.197	109.725	84.137	1.00	0.00	C
ATOM	7615	HG2	ARG	X	678	72.396	108.967	84.895	1.00	0.00	H
ATOM	7616	HG3	ARG	X	678	72.209	109.121	83.230	1.00	0.00	H
ATOM	7617	CD	ARG	X	678	73.374	110.693	84.123	1.00	0.00	C
ATOM	7618	HD2	ARG	X	678	73.211	111.284	85.025	1.00	0.00	H
ATOM	7619	HD3	ARG	X	678	74.292	110.125	84.269	1.00	0.00	H
ATOM	7620	NE	ARG	X	678	73.381	111.563	82.913	1.00	0.00	N
ATOM	7621	HE	ARG	X	678	73.093	111.091	82.068	1.00	0.00	H
ATOM	7622	CZ	ARG	X	678	73.613	112.904	82.894	1.00	0.00	C
ATOM	7623	NH1	ARG	X	678	73.982	113.525	83.963	1.00	0.00	N
ATOM	7624	HH11	ARG	X	678	74.246	113.010	84.790	1.00	0.00	H

ATOM	7625	HH12	ARG	X	678	73.974	114.527	83.835	1.00	0.00	H
ATOM	7626	NH2	ARG	X	678	73.466	113.553	81.784	1.00	0.00	N
ATOM	7627	HH21	ARG	X	678	73.533	113.057	80.907	1.00	0.00	H
ATOM	7628	HH22	ARG	X	678	73.854	114.484	81.750	1.00	0.00	H
ATOM	7629	C	ARG	X	678	69.944	108.798	86.129	1.00	0.00	C
ATOM	7630	O	ARG	X	678	70.484	107.754	86.333	1.00	0.00	O
ATOM	7631	N	SER	X	679	69.586	109.637	87.130	1.00	0.00	N
ATOM	7632	H	SER	X	679	69.144	110.522	86.927	1.00	0.00	H
ATOM	7633	CA	SER	X	679	69.600	109.209	88.470	1.00	0.00	C
ATOM	7634	HA	SER	X	679	70.627	108.935	88.718	1.00	0.00	H
ATOM	7635	CB	SER	X	679	69.211	110.330	89.462	1.00	0.00	C
ATOM	7636	HB2	SER	X	679	69.892	111.168	89.313	1.00	0.00	H
ATOM	7637	HB3	SER	X	679	68.216	110.654	89.157	1.00	0.00	H
ATOM	7638	OG	SER	X	679	68.948	109.902	90.830	1.00	0.00	O
ATOM	7639	HG	SER	X	679	69.723	109.481	91.208	1.00	0.00	H
ATOM	7640	C	SER	X	679	68.832	107.887	88.813	1.00	0.00	C
ATOM	7641	O	SER	X	679	69.412	107.091	89.573	1.00	0.00	O
ATOM	7642	N	LEU	X	680	67.610	107.655	88.267	1.00	0.00	N
ATOM	7643	H	LEU	X	680	67.300	108.197	87.472	1.00	0.00	H
ATOM	7644	CA	LEU	X	680	66.835	106.525	88.673	1.00	0.00	C
ATOM	7645	HA	LEU	X	680	66.848	106.391	89.756	1.00	0.00	H
ATOM	7646	CB	LEU	X	680	65.406	106.860	88.242	1.00	0.00	C
ATOM	7647	HB2	LEU	X	680	65.078	107.769	88.744	1.00	0.00	H
ATOM	7648	HB3	LEU	X	680	65.460	107.179	87.200	1.00	0.00	H
ATOM	7649	CG	LEU	X	680	64.405	105.632	88.312	1.00	0.00	C
ATOM	7650	HG	LEU	X	680	64.964	104.698	88.255	1.00	0.00	H
ATOM	7651	CD1	LEU	X	680	63.951	105.559	89.789	1.00	0.00	C
ATOM	7652	HD11	LEU	X	680	64.646	104.957	90.374	1.00	0.00	H
ATOM	7653	HD12	LEU	X	680	63.928	106.496	90.346	1.00	0.00	H
ATOM	7654	HD13	LEU	X	680	62.977	105.088	89.931	1.00	0.00	H
ATOM	7655	CD2	LEU	X	680	63.096	105.773	87.492	1.00	0.00	C
ATOM	7656	HD21	LEU	X	680	62.519	104.876	87.716	1.00	0.00	H
ATOM	7657	HD22	LEU	X	680	62.640	106.741	87.701	1.00	0.00	H
ATOM	7658	HD23	LEU	X	680	63.415	105.814	86.450	1.00	0.00	H
ATOM	7659	C	LEU	X	680	67.350	105.205	88.027	1.00	0.00	C
ATOM	7660	O	LEU	X	680	67.489	104.182	88.669	1.00	0.00	O
ATOM	7661	N	LEU	X	681	67.791	105.409	86.773	1.00	0.00	N
ATOM	7662	H	LEU	X	681	67.711	106.343	86.395	1.00	0.00	H
ATOM	7663	CA	LEU	X	681	68.528	104.263	86.089	1.00	0.00	C
ATOM	7664	HA	LEU	X	681	67.878	103.393	86.002	1.00	0.00	H
ATOM	7665	CB	LEU	X	681	68.834	104.730	84.645	1.00	0.00	C
ATOM	7666	HB2	LEU	X	681	67.858	105.049	84.279	1.00	0.00	H
ATOM	7667	HB3	LEU	X	681	69.414	105.651	84.582	1.00	0.00	H
ATOM	7668	CG	LEU	X	681	69.527	103.620	83.746	1.00	0.00	C
ATOM	7669	HG	LEU	X	681	69.043	102.690	84.041	1.00	0.00	H
ATOM	7670	CD1	LEU	X	681	69.067	103.822	82.322	1.00	0.00	C
ATOM	7671	HD11	LEU	X	681	69.417	103.002	81.696	1.00	0.00	H
ATOM	7672	HD12	LEU	X	681	67.992	103.834	82.142	1.00	0.00	H
ATOM	7673	HD13	LEU	X	681	69.458	104.806	82.062	1.00	0.00	H
ATOM	7674	CD2	LEU	X	681	71.037	103.661	83.788	1.00	0.00	C
ATOM	7675	HD21	LEU	X	681	71.392	104.682	83.655	1.00	0.00	H
ATOM	7676	HD22	LEU	X	681	71.361	103.141	84.689	1.00	0.00	H
ATOM	7677	HD23	LEU	X	681	71.430	103.008	83.008	1.00	0.00	H
ATOM	7678	C	LEU	X	681	69.639	103.712	86.981	1.00	0.00	C
ATOM	7679	O	LEU	X	681	69.684	102.503	87.144	1.00	0.00	O
ATOM	7680	N	ARG	X	682	70.471	104.570	87.543	1.00	0.00	N
ATOM	7681	H	ARG	X	682	70.369	105.567	87.411	1.00	0.00	H
ATOM	7682	CA	ARG	X	682	71.621	104.172	88.330	1.00	0.00	C
ATOM	7683	HA	ARG	X	682	72.191	103.458	87.733	1.00	0.00	H
ATOM	7684	CB	ARG	X	682	72.582	105.424	88.583	1.00	0.00	C
ATOM	7685	HB2	ARG	X	682	72.045	106.277	88.999	1.00	0.00	H
ATOM	7686	HB3	ARG	X	682	73.385	105.067	89.229	1.00	0.00	H
ATOM	7687	CG	ARG	X	682	73.315	105.976	87.336	1.00	0.00	C
ATOM	7688	HG2	ARG	X	682	73.851	105.135	86.900	1.00	0.00	H
ATOM	7689	HG3	ARG	X	682	72.654	106.244	86.512	1.00	0.00	H
ATOM	7690	CD	ARG	X	682	74.235	107.111	87.633	1.00	0.00	C
ATOM	7691	HD2	ARG	X	682	73.571	107.945	87.862	1.00	0.00	H
ATOM	7692	HD3	ARG	X	682	74.979	106.822	88.376	1.00	0.00	H
ATOM	7693	NE	ARG	X	682	74.877	107.639	86.393	1.00	0.00	N
ATOM	7694	HE	ARG	X	682	74.779	107.032	85.592	1.00	0.00	H
ATOM	7695	CZ	ARG	X	682	75.649	108.688	86.266	1.00	0.00	C
ATOM	7696	NH1	ARG	X	682	75.883	109.496	87.219	1.00	0.00	N
ATOM	7697	HH11	ARG	X	682	75.570	109.248	88.147	1.00	0.00	H
ATOM	7698	HH12	ARG	X	682	76.574	110.233	87.206	1.00	0.00	H
ATOM	7699	NH2	ARG	X	682	76.082	108.885	85.084	1.00	0.00	N
ATOM	7700	HH21	ARG	X	682	75.981	108.149	84.400	1.00	0.00	H
ATOM	7701	HH22	ARG	X	682	76.834	109.512	84.837	1.00	0.00	H
ATOM	7702	C	ARG	X	682	71.260	103.512	89.652	1.00	0.00	C
ATOM	7703	O	ARG	X	682	71.942	102.627	90.106	1.00	0.00	O
ATOM	7704	N	ARG	X	683	70.224	104.050	90.316	1.00	0.00	N
ATOM	7705	H	ARG	X	683	69.759	104.739	89.740	1.00	0.00	H
ATOM	7706	CA	ARG	X	683	69.550	103.522	91.544	1.00	0.00	C

ATOM	7707	HA	ARG	X	683	70.370	103.318	92.233	1.00	0.00	H
ATOM	7708	CB	ARG	X	683	68.565	104.437	92.246	1.00	0.00	C
ATOM	7709	HB2	ARG	X	683	67.817	104.818	91.549	1.00	0.00	H
ATOM	7710	HB3	ARG	X	683	68.206	103.946	93.150	1.00	0.00	H
ATOM	7711	CG	ARG	X	683	69.247	105.764	92.670	1.00	0.00	C
ATOM	7712	HG2	ARG	X	683	70.089	105.524	93.319	1.00	0.00	H
ATOM	7713	HG3	ARG	X	683	69.667	106.152	91.743	1.00	0.00	H
ATOM	7714	CD	ARG	X	683	68.353	106.832	93.245	1.00	0.00	C
ATOM	7715	HD2	ARG	X	683	67.566	107.116	92.547	1.00	0.00	H
ATOM	7716	HD3	ARG	X	683	68.020	106.519	94.236	1.00	0.00	H
ATOM	7717	NE	ARG	X	683	69.182	108.044	93.351	1.00	0.00	N
ATOM	7718	HE	ARG	X	683	69.843	108.107	92.590	1.00	0.00	H
ATOM	7719	CZ	ARG	X	683	69.021	108.958	94.319	1.00	0.00	C
ATOM	7720	NH1	ARG	X	683	68.197	108.904	95.399	1.00	0.00	N
ATOM	7721	HH11	ARG	X	683	67.712	108.037	95.587	1.00	0.00	H
ATOM	7722	HH12	ARG	X	683	68.046	109.706	95.994	1.00	0.00	H
ATOM	7723	NH2	ARG	X	683	69.650	110.026	94.089	1.00	0.00	N
ATOM	7724	HH21	ARG	X	683	70.101	110.253	93.213	1.00	0.00	H
ATOM	7725	HH22	ARG	X	683	69.494	110.768	94.755	1.00	0.00	H
ATOM	7726	C	ARG	X	683	68.882	102.152	91.390	1.00	0.00	C
ATOM	7727	O	ARG	X	683	69.162	101.228	92.167	1.00	0.00	O
ATOM	7728	N	ARG	X	684	68.056	102.047	90.391	1.00	0.00	N
ATOM	7729	H	ARG	X	684	67.822	102.910	89.921	1.00	0.00	H
ATOM	7730	CA	ARG	X	684	67.464	100.771	89.951	1.00	0.00	C
ATOM	7731	HA	ARG	X	684	66.822	100.351	90.726	1.00	0.00	H
ATOM	7732	CB	ARG	X	684	66.677	101.091	88.640	1.00	0.00	C
ATOM	7733	HB2	ARG	X	684	65.910	101.849	88.801	1.00	0.00	H
ATOM	7734	HB3	ARG	X	684	67.394	101.538	87.952	1.00	0.00	H
ATOM	7735	CG	ARG	X	684	65.966	99.857	88.073	1.00	0.00	C
ATOM	7736	HG2	ARG	X	684	66.703	99.129	87.733	1.00	0.00	H
ATOM	7737	HG3	ARG	X	684	65.256	99.535	88.834	1.00	0.00	H
ATOM	7738	CD	ARG	X	684	65.105	100.138	86.817	1.00	0.00	C
ATOM	7739	HD2	ARG	X	684	64.648	99.200	86.503	1.00	0.00	H
ATOM	7740	HD3	ARG	X	684	64.200	100.721	86.993	1.00	0.00	H
ATOM	7741	NE	ARG	X	684	65.942	100.839	85.800	1.00	0.00	N
ATOM	7742	HE	ARG	X	684	66.659	100.327	85.306	1.00	0.00	H
ATOM	7743	CZ	ARG	X	684	65.695	102.064	85.476	1.00	0.00	C
ATOM	7744	NH1	ARG	X	684	65.022	102.954	86.149	1.00	0.00	N
ATOM	7745	HH11	ARG	X	684	64.582	102.776	87.040	1.00	0.00	H
ATOM	7746	HH12	ARG	X	684	64.905	103.840	85.679	1.00	0.00	H
ATOM	7747	NH2	ARG	X	684	66.261	102.597	84.421	1.00	0.00	N
ATOM	7748	HH21	ARG	X	684	66.766	102.033	83.752	1.00	0.00	H
ATOM	7749	HH22	ARG	X	684	65.985	103.537	84.173	1.00	0.00	H
ATOM	7750	C	ARG	X	684	68.553	99.792	89.708	1.00	0.00	C
ATOM	7751	O	ARG	X	684	68.508	98.651	90.185	1.00	0.00	O
ATOM	7752	N	ALA	X	685	69.675	100.190	89.008	1.00	0.00	N
ATOM	7753	H	ALA	X	685	69.687	101.051	88.480	1.00	0.00	H
ATOM	7754	CA	ALA	X	685	70.711	99.154	88.699	1.00	0.00	C
ATOM	7755	HA	ALA	X	685	70.290	98.225	88.315	1.00	0.00	H
ATOM	7756	CB	ALA	X	685	71.649	99.722	87.629	1.00	0.00	C
ATOM	7757	HB1	ALA	X	685	72.303	98.962	87.198	1.00	0.00	H
ATOM	7758	HB2	ALA	X	685	71.008	100.103	86.834	1.00	0.00	H
ATOM	7759	HB3	ALA	X	685	72.296	100.510	88.016	1.00	0.00	H
ATOM	7760	C	ALA	X	685	71.567	98.652	89.822	1.00	0.00	C
ATOM	7761	O	ALA	X	685	71.680	97.438	89.989	1.00	0.00	O
ATOM	7762	N	CYS	X	686	72.136	99.541	90.678	1.00	0.00	N
ATOM	7763	H	CYS	X	686	72.021	100.487	90.340	1.00	0.00	H
ATOM	7764	CA	CYS	X	686	72.793	99.186	91.908	1.00	0.00	C
ATOM	7765	HA	CYS	X	686	73.706	98.706	91.556	1.00	0.00	H
ATOM	7766	CB	CYS	X	686	73.111	100.537	92.622	1.00	0.00	C
ATOM	7767	HB2	CYS	X	686	73.758	101.143	91.987	1.00	0.00	H
ATOM	7768	HB3	CYS	X	686	72.196	101.045	92.926	1.00	0.00	H
ATOM	7769	SG	CYS	X	686	74.135	100.293	94.144	1.00	0.00	S
ATOM	7770	HG	CYS	X	686	75.242	99.851	93.541	1.00	0.00	H
ATOM	7771	C	CYS	X	686	71.945	98.353	92.881	1.00	0.00	C
ATOM	7772	O	CYS	X	686	72.453	97.316	93.348	1.00	0.00	O
ATOM	7773	N	ALA	X	687	70.638	98.655	93.000	1.00	0.00	N
ATOM	7774	H	ALA	X	687	70.259	99.523	92.651	1.00	0.00	H
ATOM	7775	CA	ALA	X	687	69.674	97.824	93.677	1.00	0.00	C
ATOM	7776	HA	ALA	X	687	69.991	97.562	94.686	1.00	0.00	H
ATOM	7777	CB	ALA	X	687	68.380	98.594	93.765	1.00	0.00	C
ATOM	7778	HB1	ALA	X	687	67.923	98.739	92.786	1.00	0.00	H
ATOM	7779	HB2	ALA	X	687	67.606	98.180	94.413	1.00	0.00	H
ATOM	7780	HB3	ALA	X	687	68.541	99.623	94.086	1.00	0.00	H
ATOM	7781	C	ALA	X	687	69.489	96.398	93.160	1.00	0.00	C
ATOM	7782	O	ALA	X	687	69.485	95.502	93.976	1.00	0.00	O
ATOM	7783	N	ARG	X	688	69.327	96.218	91.833	1.00	0.00	N
ATOM	7784	H	ARG	X	688	69.247	97.090	91.330	1.00	0.00	H
ATOM	7785	CA	ARG	X	688	69.319	94.906	91.101	1.00	0.00	C
ATOM	7786	HA	ARG	X	688	68.564	94.272	91.566	1.00	0.00	H
ATOM	7787	CB	ARG	X	688	69.035	95.075	89.569	1.00	0.00	C
ATOM	7788	HB2	ARG	X	688	68.010	95.425	89.446	1.00	0.00	H

ATOM	7789	HB3	ARG	X	688	69.744	95.840	89.251	1.00	0.00	H
ATOM	7790	CG	ARG	X	688	69.185	93.836	88.717	1.00	0.00	C
ATOM	7791	HG2	ARG	X	688	70.253	93.618	88.745	1.00	0.00	H
ATOM	7792	HG3	ARG	X	688	68.687	92.967	89.145	1.00	0.00	H
ATOM	7793	CD	ARG	X	688	68.706	93.976	87.302	1.00	0.00	C
ATOM	7794	HD2	ARG	X	688	68.852	93.005	86.829	1.00	0.00	H
ATOM	7795	HD3	ARG	X	688	67.637	94.167	87.218	1.00	0.00	H
ATOM	7796	NE	ARG	X	688	69.524	94.985	86.609	1.00	0.00	N
ATOM	7797	HE	ARG	X	688	70.528	94.882	86.633	1.00	0.00	H
ATOM	7798	CZ	ARG	X	688	69.190	96.078	86.022	1.00	0.00	C
ATOM	7799	NH1	ARG	X	688	68.032	96.553	85.932	1.00	0.00	N
ATOM	7800	HH11	ARG	X	688	67.330	96.043	86.447	1.00	0.00	H
ATOM	7801	HH12	ARG	X	688	67.963	97.323	85.281	1.00	0.00	H
ATOM	7802	NH2	ARG	X	688	70.211	96.679	85.446	1.00	0.00	N
ATOM	7803	HH21	ARG	X	688	71.068	96.147	85.396	1.00	0.00	H
ATOM	7804	HH22	ARG	X	688	70.089	97.494	84.861	1.00	0.00	H
ATOM	7805	C	ARG	X	688	70.566	94.082	91.448	1.00	0.00	C
ATOM	7806	O	ARG	X	688	70.535	92.890	91.770	1.00	0.00	O
ATOM	7807	N	TRP	X	689	71.701	94.731	91.357	1.00	0.00	N
ATOM	7808	H	TRP	X	689	71.669	95.642	90.921	1.00	0.00	H
ATOM	7809	CA	TRP	X	689	73.010	94.175	91.724	1.00	0.00	C
ATOM	7810	HA	TRP	X	689	73.180	93.228	91.209	1.00	0.00	H
ATOM	7811	CB	TRP	X	689	74.160	95.141	91.337	1.00	0.00	C
ATOM	7812	HB2	TRP	X	689	73.991	95.409	90.294	1.00	0.00	H
ATOM	7813	HB3	TRP	X	689	74.064	96.091	91.863	1.00	0.00	H
ATOM	7814	CG	TRP	X	689	75.454	94.582	91.538	1.00	0.00	C
ATOM	7815	CD1	TRP	X	689	76.342	94.123	90.633	1.00	0.00	C
ATOM	7816	HD1	TRP	X	689	76.216	94.149	89.562	1.00	0.00	H
ATOM	7817	NE1	TRP	X	689	77.361	93.401	91.253	1.00	0.00	N
ATOM	7818	HE1	TRP	X	689	78.077	92.912	90.736	1.00	0.00	H
ATOM	7819	CE2	TRP	X	689	77.357	93.605	92.610	1.00	0.00	C
ATOM	7820	CZ2	TRP	X	689	78.284	93.299	93.676	1.00	0.00	C
ATOM	7821	HZ2	TRP	X	689	79.202	92.766	93.479	1.00	0.00	H
ATOM	7822	CH2	TRP	X	689	77.922	93.629	94.965	1.00	0.00	C
ATOM	7823	HH2	TRP	X	689	78.592	93.255	95.725	1.00	0.00	H
ATOM	7824	CZ3	TRP	X	689	76.727	94.362	95.166	1.00	0.00	C
ATOM	7825	HZ3	TRP	X	689	76.540	94.450	96.227	1.00	0.00	H
ATOM	7826	CE3	TRP	X	689	75.885	94.710	94.124	1.00	0.00	C
ATOM	7827	HE3	TRP	X	689	75.008	95.309	94.319	1.00	0.00	H
ATOM	7828	CD2	TRP	X	689	76.175	94.329	92.821	1.00	0.00	C
ATOM	7829	C	TRP	X	689	73.071	93.680	93.120	1.00	0.00	C
ATOM	7830	O	TRP	X	689	73.106	92.498	93.448	1.00	0.00	O
ATOM	7831	N	CYS	X	690	72.784	94.597	94.053	1.00	0.00	N
ATOM	7832	H	CYS	X	690	72.576	95.513	93.681	1.00	0.00	H
ATOM	7833	CA	CYS	X	690	72.999	94.336	95.457	1.00	0.00	C
ATOM	7834	HA	CYS	X	690	74.023	93.974	95.551	1.00	0.00	H
ATOM	7835	CB	CYS	X	690	72.810	95.632	96.276	1.00	0.00	C
ATOM	7836	HB2	CYS	X	690	71.768	95.952	96.234	1.00	0.00	H
ATOM	7837	HB3	CYS	X	690	72.969	95.229	97.277	1.00	0.00	H
ATOM	7838	SG	CYS	X	690	73.913	97.016	96.056	1.00	0.00	S
ATOM	7839	HG	CYS	X	690	73.385	97.224	94.847	1.00	0.00	H
ATOM	7840	C	CYS	X	690	72.110	93.194	95.919	1.00	0.00	C
ATOM	7841	O	CYS	X	690	72.438	92.334	96.764	1.00	0.00	O
ATOM	7842	N	LEU	X	691	70.884	93.119	95.324	1.00	0.00	N
ATOM	7843	H	LEU	X	691	70.525	93.814	94.686	1.00	0.00	H
ATOM	7844	CA	LEU	X	691	69.939	92.058	95.651	1.00	0.00	C
ATOM	7845	HA	LEU	X	691	70.043	91.826	96.711	1.00	0.00	H
ATOM	7846	CB	LEU	X	691	68.566	92.730	95.429	1.00	0.00	C
ATOM	7847	HB2	LEU	X	691	68.544	93.539	96.160	1.00	0.00	H
ATOM	7848	HB3	LEU	X	691	68.503	93.235	94.465	1.00	0.00	H
ATOM	7849	CG	LEU	X	691	67.410	91.752	95.699	1.00	0.00	C
ATOM	7850	HG	LEU	X	691	67.400	91.028	94.884	1.00	0.00	H
ATOM	7851	CD1	LEU	X	691	67.532	90.903	97.020	1.00	0.00	C
ATOM	7852	HD11	LEU	X	691	68.136	90.007	96.883	1.00	0.00	H
ATOM	7853	HD12	LEU	X	691	67.926	91.497	97.844	1.00	0.00	H
ATOM	7854	HD13	LEU	X	691	66.562	90.441	97.207	1.00	0.00	H
ATOM	7855	CD2	LEU	X	691	66.044	92.487	95.730	1.00	0.00	C
ATOM	7856	HD21	LEU	X	691	65.912	93.111	96.614	1.00	0.00	H
ATOM	7857	HD22	LEU	X	691	66.082	93.012	94.776	1.00	0.00	H
ATOM	7858	HD23	LEU	X	691	65.238	91.767	95.583	1.00	0.00	H
ATOM	7859	C	LEU	X	691	70.295	90.671	95.009	1.00	0.00	C
ATOM	7860	O	LEU	X	691	70.354	89.727	95.781	1.00	0.00	O
ATOM	7861	N	ALA	X	692	70.699	90.599	93.692	1.00	0.00	N
ATOM	7862	H	ALA	X	692	70.725	91.474	93.188	1.00	0.00	H
ATOM	7863	CA	ALA	X	692	71.291	89.428	93.121	1.00	0.00	C
ATOM	7864	HA	ALA	X	692	70.532	88.646	93.160	1.00	0.00	H
ATOM	7865	CB	ALA	X	692	71.596	89.662	91.659	1.00	0.00	C
ATOM	7866	HB1	ALA	X	692	70.724	90.069	91.147	1.00	0.00	H
ATOM	7867	HB2	ALA	X	692	72.371	90.420	91.549	1.00	0.00	H
ATOM	7868	HB3	ALA	X	692	71.804	88.762	91.080	1.00	0.00	H
ATOM	7869	C	ALA	X	692	72.454	88.918	93.880	1.00	0.00	C
ATOM	7870	O	ALA	X	692	72.535	87.715	94.137	1.00	0.00	O

ATOM	7871	N	ARG	X	693	73.409	89.776	94.289	1.00	0.00	N
ATOM	7872	H	ARG	X	693	73.263	90.690	93.885	1.00	0.00	H
ATOM	7873	CA	ARG	X	693	74.500	89.493	95.272	1.00	0.00	C
ATOM	7874	HA	ARG	X	693	75.113	88.708	94.829	1.00	0.00	H
ATOM	7875	CB	ARG	X	693	75.405	90.672	95.423	1.00	0.00	C
ATOM	7876	HB2	ARG	X	693	75.568	91.096	94.432	1.00	0.00	H
ATOM	7877	HB3	ARG	X	693	74.755	91.371	95.948	1.00	0.00	H
ATOM	7878	CG	ARG	X	693	76.694	90.525	96.238	1.00	0.00	C
ATOM	7879	HG2	ARG	X	693	77.140	91.510	96.379	1.00	0.00	H
ATOM	7880	HG3	ARG	X	693	76.475	90.018	97.179	1.00	0.00	H
ATOM	7881	CD	ARG	X	693	77.701	89.648	95.450	1.00	0.00	C
ATOM	7882	HD2	ARG	X	693	77.252	88.660	95.349	1.00	0.00	H
ATOM	7883	HD3	ARG	X	693	77.902	90.056	94.460	1.00	0.00	H
ATOM	7884	NE	ARG	X	693	78.992	89.651	96.248	1.00	0.00	N
ATOM	7885	HE	ARG	X	693	78.906	90.143	97.125	1.00	0.00	H
ATOM	7886	CZ	ARG	X	693	80.194	89.391	95.848	1.00	0.00	C
ATOM	7887	NH1	ARG	X	693	80.498	88.829	94.733	1.00	0.00	N
ATOM	7888	HH11	ARG	X	693	79.799	88.603	94.039	1.00	0.00	H
ATOM	7889	HH12	ARG	X	693	81.452	88.706	94.423	1.00	0.00	H
ATOM	7890	NH2	ARG	X	693	81.191	89.829	96.555	1.00	0.00	N
ATOM	7891	HH21	ARG	X	693	80.961	90.384	97.366	1.00	0.00	H
ATOM	7892	HH22	ARG	X	693	82.109	89.829	96.134	1.00	0.00	H
ATOM	7893	C	ARG	X	693	73.976	88.929	96.621	1.00	0.00	C
ATOM	7894	O	ARG	X	693	74.459	87.873	97.078	1.00	0.00	O
ATOM	7895	N	SER	X	694	72.908	89.511	97.183	1.00	0.00	N
ATOM	7896	H	SER	X	694	72.593	90.384	96.782	1.00	0.00	H
ATOM	7897	CA	SER	X	694	72.261	88.941	98.377	1.00	0.00	C
ATOM	7898	HA	SER	X	694	73.054	88.704	99.087	1.00	0.00	H
ATOM	7899	CB	SER	X	694	71.390	89.948	99.116	1.00	0.00	C
ATOM	7900	HB2	SER	X	694	70.483	90.184	98.559	1.00	0.00	H
ATOM	7901	HB3	SER	X	694	71.060	89.621	100.102	1.00	0.00	H
ATOM	7902	OG	SER	X	694	72.131	91.107	99.365	1.00	0.00	O
ATOM	7903	HG	SER	X	694	72.264	91.604	98.554	1.00	0.00	H
ATOM	7904	C	SER	X	694	71.542	87.612	98.132	1.00	0.00	C
ATOM	7905	O	SER	X	694	71.532	86.849	99.089	1.00	0.00	O
ATOM	7906	N	LEU	X	695	70.988	87.350	96.953	1.00	0.00	N
ATOM	7907	H	LEU	X	695	71.253	87.968	96.200	1.00	0.00	H
ATOM	7908	CA	LEU	X	695	70.408	86.078	96.613	1.00	0.00	C
ATOM	7909	HA	LEU	X	695	69.692	85.785	97.382	1.00	0.00	H
ATOM	7910	CB	LEU	X	695	69.692	86.199	95.245	1.00	0.00	C
ATOM	7911	HB2	LEU	X	695	70.288	86.890	94.648	1.00	0.00	H
ATOM	7912	HB3	LEU	X	695	69.613	85.183	94.858	1.00	0.00	H
ATOM	7913	CG	LEU	X	695	68.298	86.794	95.307	1.00	0.00	C
ATOM	7914	HG	LEU	X	695	68.236	87.632	96.001	1.00	0.00	H
ATOM	7915	CD1	LEU	X	695	67.800	87.393	94.008	1.00	0.00	C
ATOM	7916	HD11	LEU	X	695	68.641	87.856	93.494	1.00	0.00	H
ATOM	7917	HD12	LEU	X	695	67.479	86.514	93.447	1.00	0.00	H
ATOM	7918	HD13	LEU	X	695	66.959	88.079	94.112	1.00	0.00	H
ATOM	7919	CD2	LEU	X	695	67.289	85.784	95.855	1.00	0.00	C
ATOM	7920	HD21	LEU	X	695	66.362	86.315	96.072	1.00	0.00	H
ATOM	7921	HD22	LEU	X	695	67.224	84.981	95.120	1.00	0.00	H
ATOM	7922	HD23	LEU	X	695	67.662	85.323	96.770	1.00	0.00	H
ATOM	7923	C	LEU	X	695	71.383	84.909	96.742	1.00	0.00	C
ATOM	7924	O	LEU	X	695	71.310	84.020	97.565	1.00	0.00	O
ATOM	7925	N	HID	X	696	72.443	84.973	95.907	1.00	0.00	N
ATOM	7926	H	HID	X	696	72.445	85.774	95.294	1.00	0.00	H
ATOM	7927	CA	HID	X	696	73.485	83.989	95.875	1.00	0.00	C
ATOM	7928	HA	HID	X	696	73.069	83.005	95.660	1.00	0.00	H
ATOM	7929	CB	HID	X	696	74.401	84.376	94.698	1.00	0.00	C
ATOM	7930	HB2	HID	X	696	73.781	84.338	93.802	1.00	0.00	H
ATOM	7931	HB3	HID	X	696	74.700	85.404	94.904	1.00	0.00	H
ATOM	7932	CG	HID	X	696	75.584	83.436	94.421	1.00	0.00	C
ATOM	7933	ND1	HID	X	696	75.494	82.195	93.996	1.00	0.00	N
ATOM	7934	HD1	HID	X	696	74.648	81.774	93.641	1.00	0.00	H
ATOM	7935	CE1	HID	X	696	76.741	81.778	93.738	1.00	0.00	C
ATOM	7936	HE1	HID	X	696	77.060	80.809	93.385	1.00	0.00	H
ATOM	7937	NE2	HID	X	696	77.647	82.676	94.028	1.00	0.00	N
ATOM	7938	CD2	HID	X	696	76.908	83.720	94.452	1.00	0.00	C
ATOM	7939	HD2	HID	X	696	77.344	84.665	94.744	1.00	0.00	H
ATOM	7940	C	HID	X	696	74.179	83.963	97.234	1.00	0.00	C
ATOM	7941	O	HID	X	696	74.484	82.888	97.654	1.00	0.00	O
ATOM	7942	N	LYS	X	697	74.336	85.077	97.977	1.00	0.00	N
ATOM	7943	H	LYS	X	697	74.067	85.982	97.618	1.00	0.00	H
ATOM	7944	CA	LYS	X	697	75.019	84.935	99.277	1.00	0.00	C
ATOM	7945	HA	LYS	X	697	75.836	84.222	99.162	1.00	0.00	H
ATOM	7946	CB	LYS	X	697	75.632	86.241	99.820	1.00	0.00	C
ATOM	7947	HB2	LYS	X	697	74.970	87.078	99.592	1.00	0.00	H
ATOM	7948	HB3	LYS	X	697	75.811	86.233	100.895	1.00	0.00	H
ATOM	7949	CG	LYS	X	697	76.971	86.637	99.125	1.00	0.00	C
ATOM	7950	HG2	LYS	X	697	77.572	85.730	99.171	1.00	0.00	H
ATOM	7951	HG3	LYS	X	697	76.709	86.775	98.076	1.00	0.00	H
ATOM	7952	CD	LYS	X	697	77.727	87.811	99.746	1.00	0.00	C

ATOM	7953	HD2	LYS	X	697	78.483	88.011	98.988	1.00	0.00	H
ATOM	7954	HD3	LYS	X	697	77.155	88.713	99.968	1.00	0.00	H
ATOM	7955	CE	LYS	X	697	78.369	87.444	101.061	1.00	0.00	C
ATOM	7956	HE2	LYS	X	697	77.619	87.292	101.837	1.00	0.00	H
ATOM	7957	HE3	LYS	X	697	78.858	86.476	100.952	1.00	0.00	H
ATOM	7958	NZ	LYS	X	697	79.283	88.496	101.532	1.00	0.00	N
ATOM	7959	HZ1	LYS	X	697	78.768	89.363	101.588	1.00	0.00	H
ATOM	7960	HZ2	LYS	X	697	79.432	88.308	102.513	1.00	0.00	H
ATOM	7961	HZ3	LYS	X	697	80.100	88.694	100.973	1.00	0.00	H
ATOM	7962	C	LYS	X	697	74.036	84.333	100.281	1.00	0.00	C
ATOM	7963	O	LYS	X	697	74.525	83.574	101.111	1.00	0.00	O
ATOM	7964	N	HIE	X	698	72.685	84.315	100.147	1.00	0.00	N
ATOM	7965	H	HIE	X	698	72.267	84.902	99.440	1.00	0.00	H
ATOM	7966	CA	HIE	X	698	71.825	83.594	101.060	1.00	0.00	C
ATOM	7967	HA	HIE	X	698	72.130	83.786	102.088	1.00	0.00	H
ATOM	7968	CB	HIE	X	698	70.405	84.187	100.863	1.00	0.00	C
ATOM	7969	HB2	HIE	X	698	70.524	85.206	101.231	1.00	0.00	H
ATOM	7970	HB3	HIE	X	698	70.148	84.313	99.812	1.00	0.00	H
ATOM	7971	CG	HIE	X	698	69.285	83.423	101.577	1.00	0.00	C
ATOM	7972	ND1	HIE	X	698	68.721	83.815	102.776	1.00	0.00	N
ATOM	7973	CE1	HIE	X	698	67.682	82.956	102.967	1.00	0.00	C
ATOM	7974	HE1	HIE	X	698	67.035	83.011	103.830	1.00	0.00	H
ATOM	7975	NE2	HIE	X	698	67.647	82.015	101.960	1.00	0.00	N
ATOM	7976	HE2	HIE	X	698	67.075	81.184	101.949	1.00	0.00	H
ATOM	7977	CD2	HIE	X	698	68.660	82.324	101.059	1.00	0.00	C
ATOM	7978	HD2	HIE	X	698	68.836	81.802	100.130	1.00	0.00	H
ATOM	7979	C	HIE	X	698	71.838	82.075	100.771	1.00	0.00	C
ATOM	7980	O	HIE	X	698	71.958	81.187	101.642	1.00	0.00	O
ATOM	7981	N	PHE	X	699	71.732	81.722	99.468	1.00	0.00	N
ATOM	7982	H	PHE	X	699	71.701	82.545	98.882	1.00	0.00	H
ATOM	7983	CA	PHE	X	699	71.590	80.307	99.079	1.00	0.00	C
ATOM	7984	HA	PHE	X	699	70.874	79.870	99.777	1.00	0.00	H
ATOM	7985	CB	PHE	X	699	71.024	80.125	97.673	1.00	0.00	C
ATOM	7986	HB2	PHE	X	699	71.669	80.654	96.971	1.00	0.00	H
ATOM	7987	HB3	PHE	X	699	71.075	79.061	97.442	1.00	0.00	H
ATOM	7988	CG	PHE	X	699	69.569	80.547	97.564	1.00	0.00	C
ATOM	7989	CD1	PHE	X	699	69.151	81.554	96.717	1.00	0.00	C
ATOM	7990	HD1	PHE	X	699	69.833	82.158	96.139	1.00	0.00	H
ATOM	7991	CE1	PHE	X	699	67.849	82.035	96.828	1.00	0.00	C
ATOM	7992	HE1	PHE	X	699	67.484	82.860	96.233	1.00	0.00	H
ATOM	7993	CZ	PHE	X	699	66.990	81.411	97.738	1.00	0.00	C
ATOM	7994	HZ	PHE	X	699	65.991	81.793	97.882	1.00	0.00	H
ATOM	7995	CE2	PHE	X	699	67.336	80.312	98.555	1.00	0.00	C
ATOM	7996	HE2	PHE	X	699	66.686	79.853	99.284	1.00	0.00	H
ATOM	7997	CD2	PHE	X	699	68.634	79.829	98.372	1.00	0.00	C
ATOM	7998	HD2	PHE	X	699	68.953	78.961	98.929	1.00	0.00	H
ATOM	7999	C	PHE	X	699	72.864	79.447	99.408	1.00	0.00	C
ATOM	8000	O	PHE	X	699	72.785	78.216	99.575	1.00	0.00	O
ATOM	8001	N	ARG	X	700	74.039	80.054	99.431	1.00	0.00	N
ATOM	8002	H	ARG	X	700	73.950	81.005	99.103	1.00	0.00	H
ATOM	8003	CA	ARG	X	700	75.262	79.482	99.973	1.00	0.00	C
ATOM	8004	HA	ARG	X	700	75.300	78.446	99.637	1.00	0.00	H
ATOM	8005	CB	ARG	X	700	76.499	80.248	99.365	1.00	0.00	C
ATOM	8006	HB2	ARG	X	700	76.345	81.320	99.495	1.00	0.00	H
ATOM	8007	HB3	ARG	X	700	77.400	79.895	99.867	1.00	0.00	H
ATOM	8008	CG	ARG	X	700	76.454	79.995	97.849	1.00	0.00	C
ATOM	8009	HG2	ARG	X	700	76.601	78.935	97.641	1.00	0.00	H
ATOM	8010	HG3	ARG	X	700	75.513	80.314	97.398	1.00	0.00	H
ATOM	8011	CD	ARG	X	700	77.533	80.853	97.133	1.00	0.00	C
ATOM	8012	HD2	ARG	X	700	77.288	80.777	96.073	1.00	0.00	H
ATOM	8013	HD3	ARG	X	700	77.460	81.891	97.456	1.00	0.00	H
ATOM	8014	NE	ARG	X	700	78.978	80.541	97.311	1.00	0.00	N
ATOM	8015	HE	ARG	X	700	79.317	79.767	97.864	1.00	0.00	H
ATOM	8016	CZ	ARG	X	700	79.933	81.172	96.689	1.00	0.00	C
ATOM	8017	NH1	ARG	X	700	79.788	82.139	95.890	1.00	0.00	N
ATOM	8018	HH11	ARG	X	700	78.868	82.348	95.528	1.00	0.00	H
ATOM	8019	HH12	ARG	X	700	80.643	82.485	95.481	1.00	0.00	H
ATOM	8020	NH2	ARG	X	700	81.136	80.844	96.988	1.00	0.00	N
ATOM	8021	HH21	ARG	X	700	81.232	79.986	97.511	1.00	0.00	H
ATOM	8022	HH22	ARG	X	700	81.906	81.375	96.606	1.00	0.00	H
ATOM	8023	C	ARG	X	700	75.390	79.447	101.440	1.00	0.00	C
ATOM	8024	O	ARG	X	700	75.436	78.347	101.968	1.00	0.00	O
ATOM	8025	N	SER	X	701	75.392	80.566	102.076	1.00	0.00	N
ATOM	8026	H	SER	X	701	75.089	81.327	101.485	1.00	0.00	H
ATOM	8027	CA	SER	X	701	75.814	80.793	103.434	1.00	0.00	C
ATOM	8028	HA	SER	X	701	76.688	80.152	103.553	1.00	0.00	H
ATOM	8029	CB	SER	X	701	76.144	82.264	103.728	1.00	0.00	C
ATOM	8030	HB2	SER	X	701	76.584	82.457	104.706	1.00	0.00	H
ATOM	8031	HB3	SER	X	701	76.962	82.586	103.085	1.00	0.00	H
ATOM	8032	OG	SER	X	701	75.070	83.081	103.637	1.00	0.00	O
ATOM	8033	HG	SER	X	701	75.038	83.390	102.729	1.00	0.00	H
ATOM	8034	C	SER	X	701	74.794	80.297	104.442	1.00	0.00	C

ATOM	8035	O	SER	X	701	75.226	80.143	105.585	1.00	0.00	O
ATOM	8036	N	ILE	X	702	73.494	80.258	104.092	1.00	0.00	N
ATOM	8037	H	ILE	X	702	73.191	80.507	103.161	1.00	0.00	H
ATOM	8038	CA	ILE	X	702	72.461	80.103	105.118	1.00	0.00	C
ATOM	8039	HA	ILE	X	702	72.983	80.437	106.015	1.00	0.00	H
ATOM	8040	CB	ILE	X	702	71.299	81.110	104.920	1.00	0.00	C
ATOM	8041	HB	ILE	X	702	70.763	81.006	103.977	1.00	0.00	H
ATOM	8042	CG2	ILE	X	702	70.300	81.067	106.079	1.00	0.00	C
ATOM	8043	HG21	ILE	X	702	69.472	81.706	105.771	1.00	0.00	H
ATOM	8044	HG22	ILE	X	702	69.971	80.067	106.358	1.00	0.00	H
ATOM	8045	HG23	ILE	X	702	70.739	81.475	106.991	1.00	0.00	H
ATOM	8046	CG1	ILE	X	702	71.735	82.584	104.882	1.00	0.00	C
ATOM	8047	HG12	ILE	X	702	72.210	82.706	103.909	1.00	0.00	H
ATOM	8048	HG13	ILE	X	702	70.840	83.201	104.809	1.00	0.00	H
ATOM	8049	CD1	ILE	X	702	72.610	83.070	106.038	1.00	0.00	C
ATOM	8050	HD11	ILE	X	702	73.061	84.025	105.768	1.00	0.00	H
ATOM	8051	HD12	ILE	X	702	71.913	83.267	106.853	1.00	0.00	H
ATOM	8052	HD13	ILE	X	702	73.325	82.330	106.394	1.00	0.00	H
ATOM	8053	C	ILE	X	702	71.953	78.659	105.345	1.00	0.00	C
ATOM	8054	O	ILE	X	702	72.069	78.220	106.513	1.00	0.00	O
ATOM	8055	N	PRO	X	703	71.405	77.924	104.342	1.00	0.00	N
ATOM	8056	CD	PRO	X	703	71.137	78.301	102.939	1.00	0.00	C
ATOM	8057	HD2	PRO	X	703	72.058	78.368	102.361	1.00	0.00	H
ATOM	8058	HD3	PRO	X	703	70.691	79.296	102.913	1.00	0.00	H
ATOM	8059	CG	PRO	X	703	70.195	77.312	102.340	1.00	0.00	C
ATOM	8060	HG2	PRO	X	703	70.433	77.017	101.317	1.00	0.00	H
ATOM	8061	HG3	PRO	X	703	69.131	77.532	102.420	1.00	0.00	H
ATOM	8062	CB	PRO	X	703	70.512	76.124	103.215	1.00	0.00	C
ATOM	8063	HB2	PRO	X	703	71.373	75.646	102.746	1.00	0.00	H
ATOM	8064	HB3	PRO	X	703	69.703	75.411	103.057	1.00	0.00	H
ATOM	8065	CA	PRO	X	703	70.706	76.725	104.614	1.00	0.00	C
ATOM	8066	HA	PRO	X	703	69.761	77.025	105.067	1.00	0.00	H
ATOM	8067	C	PRO	X	703	71.316	75.664	105.473	1.00	0.00	C
ATOM	8068	O	PRO	X	703	70.561	74.871	106.090	1.00	0.00	O
ATOM	8069	N	PRO	X	704	72.660	75.474	105.480	1.00	0.00	N
ATOM	8070	CD	PRO	X	704	73.594	76.057	104.595	1.00	0.00	C
ATOM	8071	HD2	PRO	X	704	74.141	76.781	105.198	1.00	0.00	H
ATOM	8072	HD3	PRO	X	704	73.163	76.487	103.690	1.00	0.00	H
ATOM	8073	CG	PRO	X	704	74.459	74.904	104.137	1.00	0.00	C
ATOM	8074	HG2	PRO	X	704	75.400	75.310	103.765	1.00	0.00	H
ATOM	8075	HG3	PRO	X	704	74.011	74.373	103.297	1.00	0.00	H
ATOM	8076	CB	PRO	X	704	74.535	74.078	105.463	1.00	0.00	C
ATOM	8077	HB2	PRO	X	704	75.453	74.362	105.979	1.00	0.00	H
ATOM	8078	HB3	PRO	X	704	74.475	73.006	105.281	1.00	0.00	H
ATOM	8079	CA	PRO	X	704	73.299	74.439	106.249	1.00	0.00	C
ATOM	8080	HA	PRO	X	704	72.756	73.506	106.102	1.00	0.00	H
ATOM	8081	C	PRO	X	704	73.432	74.823	107.707	1.00	0.00	C
ATOM	8082	O	PRO	X	704	73.144	73.920	108.510	1.00	0.00	O
ATOM	8083	N	ALA	X	705	73.753	76.121	107.953	1.00	0.00	N
ATOM	8084	H	ALA	X	705	73.647	76.831	107.243	1.00	0.00	H
ATOM	8085	CA	ALA	X	705	74.173	76.504	109.266	1.00	0.00	C
ATOM	8086	HA	ALA	X	705	74.657	75.632	109.705	1.00	0.00	H
ATOM	8087	CB	ALA	X	705	75.369	77.498	109.112	1.00	0.00	C
ATOM	8088	HB1	ALA	X	705	75.234	78.284	108.368	1.00	0.00	H
ATOM	8089	HB2	ALA	X	705	75.363	77.939	110.110	1.00	0.00	H
ATOM	8090	HB3	ALA	X	705	76.389	77.129	109.011	1.00	0.00	H
ATOM	8091	C	ALA	X	705	72.950	76.988	110.086	1.00	0.00	C
ATOM	8092	O	ALA	X	705	72.740	76.548	111.232	1.00	0.00	O
ATOM	8093	N	VAL	X	706	72.157	77.929	109.554	1.00	0.00	N
ATOM	8094	H	VAL	X	706	72.504	78.337	108.697	1.00	0.00	H
ATOM	8095	CA	VAL	X	706	71.102	78.655	110.222	1.00	0.00	C
ATOM	8096	HA	VAL	X	706	71.427	78.928	111.226	1.00	0.00	H
ATOM	8097	CB	VAL	X	706	70.886	80.052	109.615	1.00	0.00	C
ATOM	8098	HB	VAL	X	706	70.433	79.955	108.628	1.00	0.00	H
ATOM	8099	CG1	VAL	X	706	70.022	80.901	110.560	1.00	0.00	C
ATOM	8100	HG11	VAL	X	706	69.721	81.848	110.112	1.00	0.00	H
ATOM	8101	HG12	VAL	X	706	68.993	80.547	110.615	1.00	0.00	H
ATOM	8102	HG13	VAL	X	706	70.494	81.052	111.532	1.00	0.00	H
ATOM	8103	CG2	VAL	X	706	72.280	80.830	109.433	1.00	0.00	C
ATOM	8104	HG21	VAL	X	706	72.907	80.311	108.708	1.00	0.00	H
ATOM	8105	HG22	VAL	X	706	72.114	81.862	109.122	1.00	0.00	H
ATOM	8106	HG23	VAL	X	706	72.809	80.841	110.386	1.00	0.00	H
ATOM	8107	C	VAL	X	706	69.739	77.885	110.495	1.00	0.00	C
ATOM	8108	O	VAL	X	706	69.375	77.898	111.663	1.00	0.00	O
ATOM	8109	N	PRO	X	707	69.130	77.130	109.551	1.00	0.00	N
ATOM	8110	CD	PRO	X	707	69.488	77.255	108.099	1.00	0.00	C
ATOM	8111	HD2	PRO	X	707	70.204	76.455	107.904	1.00	0.00	H
ATOM	8112	HD3	PRO	X	707	69.867	78.199	107.706	1.00	0.00	H
ATOM	8113	CG	PRO	X	707	68.161	77.046	107.282	1.00	0.00	C
ATOM	8114	HG2	PRO	X	707	68.331	76.622	106.292	1.00	0.00	H
ATOM	8115	HG3	PRO	X	707	67.483	77.894	107.192	1.00	0.00	H
ATOM	8116	CB	PRO	X	707	67.586	76.039	108.277	1.00	0.00	C

ATOM	8117	HB2	PRO	X	707	68.101	75.082	108.200	1.00	0.00	H
ATOM	8118	HB3	PRO	X	707	66.505	75.936	108.172	1.00	0.00	H
ATOM	8119	CA	PRO	X	707	67.818	76.500	109.696	1.00	0.00	C
ATOM	8120	HA	PRO	X	707	67.081	77.254	109.973	1.00	0.00	H
ATOM	8121	C	PRO	X	707	67.752	75.422	110.784	1.00	0.00	C
ATOM	8122	O	PRO	X	707	66.589	75.077	111.218	1.00	0.00	O
ATOM	8123	N	GLY	X	708	68.916	74.916	111.360	1.00	0.00	N
ATOM	8124	H	GLY	X	708	69.780	75.296	111.000	1.00	0.00	H
ATOM	8125	CA	GLY	X	708	69.026	74.094	112.570	1.00	0.00	C
ATOM	8126	HA2	GLY	X	708	68.387	73.221	112.434	1.00	0.00	H
ATOM	8127	HA3	GLY	X	708	70.039	73.729	112.743	1.00	0.00	H
ATOM	8128	C	GLY	X	708	68.708	74.887	113.873	1.00	0.00	C
ATOM	8129	O	GLY	X	708	68.387	74.252	114.877	1.00	0.00	O
ATOM	8130	N	GLU	X	709	68.726	76.237	113.912	1.00	0.00	N
ATOM	8131	H	GLU	X	709	68.839	76.731	113.038	1.00	0.00	H
ATOM	8132	CA	GLU	X	709	68.134	76.935	115.132	1.00	0.00	C
ATOM	8133	HA	GLU	X	709	68.641	76.450	115.966	1.00	0.00	H
ATOM	8134	CB	GLU	X	709	68.521	78.416	114.949	1.00	0.00	C
ATOM	8135	HB2	GLU	X	709	68.037	78.766	114.037	1.00	0.00	H
ATOM	8136	HB3	GLU	X	709	68.088	79.017	115.748	1.00	0.00	H
ATOM	8137	CG	GLU	X	709	70.037	78.848	114.830	1.00	0.00	C
ATOM	8138	HG2	GLU	X	709	70.639	78.249	114.148	1.00	0.00	H
ATOM	8139	HG3	GLU	X	709	70.017	79.843	114.385	1.00	0.00	H
ATOM	8140	CD	GLU	X	709	70.690	78.914	116.175	1.00	0.00	C
ATOM	8141	OE1	GLU	X	709	71.685	79.771	116.249	1.00	0.00	O
ATOM	8142	OE2	GLU	X	709	70.518	78.065	117.072	1.00	0.00	O
ATOM	8143	C	GLU	X	709	66.613	76.711	115.383	1.00	0.00	C
ATOM	8144	O	GLU	X	709	65.838	76.730	114.411	1.00	0.00	O
ATOM	8145	N	ALA	X	710	66.293	76.414	116.607	1.00	0.00	N
ATOM	8146	H	ALA	X	710	67.005	76.412	117.324	1.00	0.00	H
ATOM	8147	CA	ALA	X	710	64.930	76.154	117.068	1.00	0.00	C
ATOM	8148	HA	ALA	X	710	64.272	75.788	116.281	1.00	0.00	H
ATOM	8149	CB	ALA	X	710	65.107	75.048	118.173	1.00	0.00	C
ATOM	8150	HB1	ALA	X	710	65.524	74.146	117.724	1.00	0.00	H
ATOM	8151	HB2	ALA	X	710	65.806	75.362	118.948	1.00	0.00	H
ATOM	8152	HB3	ALA	X	710	64.117	74.862	118.590	1.00	0.00	H
ATOM	8153	C	ALA	X	710	64.231	77.461	117.611	1.00	0.00	C
ATOM	8154	O	ALA	X	710	63.027	77.453	117.795	1.00	0.00	O
ATOM	8155	N	LYS	X	711	64.989	78.579	117.669	1.00	0.00	N
ATOM	8156	H	LYS	X	711	65.973	78.413	117.513	1.00	0.00	H
ATOM	8157	CA	LYS	X	711	64.486	79.925	118.029	1.00	0.00	C
ATOM	8158	HA	LYS	X	711	63.794	79.836	118.865	1.00	0.00	H
ATOM	8159	CB	LYS	X	711	65.544	80.882	118.394	1.00	0.00	C
ATOM	8160	HB2	LYS	X	711	66.389	80.810	117.709	1.00	0.00	H
ATOM	8161	HB3	LYS	X	711	65.158	81.901	118.362	1.00	0.00	H
ATOM	8162	CG	LYS	X	711	66.044	80.601	119.877	1.00	0.00	C
ATOM	8163	HG2	LYS	X	711	65.278	80.969	120.559	1.00	0.00	H
ATOM	8164	HG3	LYS	X	711	66.299	79.544	119.941	1.00	0.00	H
ATOM	8165	CD	LYS	X	711	67.324	81.390	120.156	1.00	0.00	C
ATOM	8166	HD2	LYS	X	711	68.180	80.880	119.715	1.00	0.00	H
ATOM	8167	HD3	LYS	X	711	67.262	82.382	119.709	1.00	0.00	H
ATOM	8168	CE	LYS	X	711	67.458	81.615	121.639	1.00	0.00	C
ATOM	8169	HE2	LYS	X	711	66.671	82.248	122.049	1.00	0.00	H
ATOM	8170	HE3	LYS	X	711	67.275	80.708	122.216	1.00	0.00	H
ATOM	8171	NZ	LYS	X	711	68.732	82.221	121.957	1.00	0.00	N
ATOM	8172	HZ1	LYS	X	711	68.875	82.352	122.948	1.00	0.00	H
ATOM	8173	HZ2	LYS	X	711	69.434	81.543	121.700	1.00	0.00	H
ATOM	8174	HZ3	LYS	X	711	68.814	83.038	121.369	1.00	0.00	H
ATOM	8175	C	LYS	X	711	63.741	80.517	116.855	1.00	0.00	C
ATOM	8176	O	LYS	X	711	64.253	80.546	115.759	1.00	0.00	O
ATOM	8177	N	SER	X	712	62.490	80.993	117.095	1.00	0.00	N
ATOM	8178	H	SER	X	712	62.066	80.851	117.999	1.00	0.00	H
ATOM	8179	CA	SER	X	712	61.664	81.649	116.071	1.00	0.00	C
ATOM	8180	HA	SER	X	712	62.247	81.940	115.198	1.00	0.00	H
ATOM	8181	CB	SER	X	712	60.632	80.610	115.683	1.00	0.00	C
ATOM	8182	HB2	SER	X	712	61.247	79.756	115.400	1.00	0.00	H
ATOM	8183	HB3	SER	X	712	59.975	80.388	116.525	1.00	0.00	H
ATOM	8184	OG	SER	X	712	59.920	81.001	114.570	1.00	0.00	O
ATOM	8185	HG	SER	X	712	60.559	81.100	113.860	1.00	0.00	H
ATOM	8186	C	SER	X	712	61.016	82.928	116.566	1.00	0.00	C
ATOM	8187	O	SER	X	712	60.320	83.624	115.773	1.00	0.00	O
ATOM	8188	N	MET	X	713	61.102	83.295	117.887	1.00	0.00	N
ATOM	8189	H	MET	X	713	61.769	82.771	118.434	1.00	0.00	H
ATOM	8190	CA	MET	X	713	60.452	84.475	118.444	1.00	0.00	C
ATOM	8191	HA	MET	X	713	59.432	84.526	118.063	1.00	0.00	H
ATOM	8192	CB	MET	X	713	60.380	84.298	120.004	1.00	0.00	C
ATOM	8193	HB2	MET	X	713	61.323	84.106	120.516	1.00	0.00	H
ATOM	8194	HB3	MET	X	713	59.980	85.188	120.490	1.00	0.00	H
ATOM	8195	CG	MET	X	713	59.416	83.142	120.345	1.00	0.00	C
ATOM	8196	HG2	MET	X	713	58.452	83.260	119.849	1.00	0.00	H
ATOM	8197	HG3	MET	X	713	59.659	82.102	120.132	1.00	0.00	H
ATOM	8198	SD	MET	X	713	58.941	83.138	122.098	1.00	0.00	S

ATOM	8199	CE	MET	X	713	58.021	84.676	122.416	1.00	0.00	C
ATOM	8200	HE1	MET	X	713	57.363	84.548	123.276	1.00	0.00	H
ATOM	8201	HE2	MET	X	713	58.711	85.476	122.685	1.00	0.00	H
ATOM	8202	HE3	MET	X	713	57.442	84.902	121.521	1.00	0.00	H
ATOM	8203	C	MET	X	713	61.188	85.748	118.034	1.00	0.00	C
ATOM	8204	O	MET	X	713	62.124	86.295	118.646	1.00	0.00	O
ATOM	8205	N	HID	X	714	60.738	86.300	116.903	1.00	0.00	N
ATOM	8206	H	HID	X	714	60.143	85.715	116.335	1.00	0.00	H
ATOM	8207	CA	HID	X	714	61.119	87.611	116.315	1.00	0.00	C
ATOM	8208	HA	HID	X	714	61.134	88.309	117.152	1.00	0.00	H
ATOM	8209	CB	HID	X	714	62.470	87.404	115.677	1.00	0.00	C
ATOM	8210	HB2	HID	X	714	62.677	88.178	114.936	1.00	0.00	H
ATOM	8211	HB3	HID	X	714	63.215	87.677	116.424	1.00	0.00	H
ATOM	8212	CG	HID	X	714	62.864	86.099	115.009	1.00	0.00	C
ATOM	8213	ND1	HID	X	714	62.136	85.376	114.069	1.00	0.00	N
ATOM	8214	HD1	HID	X	714	61.253	85.657	113.667	1.00	0.00	H
ATOM	8215	CE1	HID	X	714	62.773	84.260	113.820	1.00	0.00	C
ATOM	8216	HE1	HID	X	714	62.486	83.519	113.089	1.00	0.00	H
ATOM	8217	NE2	HID	X	714	63.782	84.097	114.653	1.00	0.00	N
ATOM	8218	CD2	HID	X	714	63.865	85.271	115.420	1.00	0.00	C
ATOM	8219	HD2	HID	X	714	64.538	85.448	116.244	1.00	0.00	H
ATOM	8220	C	HID	X	714	60.005	88.052	115.308	1.00	0.00	C
ATOM	8221	O	HID	X	714	59.308	87.226	114.789	1.00	0.00	O
ATOM	8222	N	ALA	X	715	60.066	89.281	114.759	1.00	0.00	N
ATOM	8223	H	ALA	X	715	60.841	89.903	114.939	1.00	0.00	H
ATOM	8224	CA	ALA	X	715	59.328	89.656	113.552	1.00	0.00	C
ATOM	8225	HA	ALA	X	715	58.265	89.584	113.784	1.00	0.00	H
ATOM	8226	CB	ALA	X	715	59.631	91.179	113.254	1.00	0.00	C
ATOM	8227	HB1	ALA	X	715	59.716	91.361	112.183	1.00	0.00	H
ATOM	8228	HB2	ALA	X	715	58.727	91.716	113.542	1.00	0.00	H
ATOM	8229	HB3	ALA	X	715	60.562	91.523	113.705	1.00	0.00	H
ATOM	8230	C	ALA	X	715	59.660	88.745	112.356	1.00	0.00	C
ATOM	8231	O	ALA	X	715	60.766	88.214	112.314	1.00	0.00	O
ATOM	8232	N	MET	X	716	58.796	88.672	111.314	1.00	0.00	N
ATOM	8233	H	MET	X	716	57.960	89.232	111.402	1.00	0.00	H
ATOM	8234	CA	MET	X	716	58.976	87.670	110.275	1.00	0.00	C
ATOM	8235	HA	MET	X	716	59.421	86.806	110.766	1.00	0.00	H
ATOM	8236	CB	MET	X	716	57.610	87.095	109.823	1.00	0.00	C
ATOM	8237	HB2	MET	X	716	57.163	87.725	109.054	1.00	0.00	H
ATOM	8238	HB3	MET	X	716	57.812	86.182	109.263	1.00	0.00	H
ATOM	8239	CG	MET	X	716	56.569	86.775	110.989	1.00	0.00	C
ATOM	8240	HG2	MET	X	716	55.792	86.172	110.517	1.00	0.00	H
ATOM	8241	HG3	MET	X	716	57.126	86.253	111.766	1.00	0.00	H
ATOM	8242	SD	MET	X	716	55.735	88.212	111.656	1.00	0.00	S
ATOM	8243	CE	MET	X	716	54.839	88.817	110.218	1.00	0.00	C
ATOM	8244	HE1	MET	X	716	55.482	89.144	109.400	1.00	0.00	H
ATOM	8245	HE2	MET	X	716	54.197	88.073	109.746	1.00	0.00	H
ATOM	8246	HE3	MET	X	716	54.258	89.682	110.534	1.00	0.00	H
ATOM	8247	C	MET	X	716	59.797	87.971	109.078	1.00	0.00	C
ATOM	8248	O	MET	X	716	59.999	87.029	108.331	1.00	0.00	O
ATOM	8249	N	PRO	X	717	60.381	89.193	108.823	1.00	0.00	N
ATOM	8250	CD	PRO	X	717	59.894	90.440	109.202	1.00	0.00	C
ATOM	8251	HD2	PRO	X	717	60.386	90.654	110.151	1.00	0.00	H
ATOM	8252	HD3	PRO	X	717	58.810	90.366	109.301	1.00	0.00	H
ATOM	8253	CG	PRO	X	717	60.211	91.473	108.044	1.00	0.00	C
ATOM	8254	HG2	PRO	X	717	60.073	92.521	108.313	1.00	0.00	H
ATOM	8255	HG3	PRO	X	717	59.542	91.238	107.215	1.00	0.00	H
ATOM	8256	CB	PRO	X	717	61.610	91.017	107.726	1.00	0.00	C
ATOM	8257	HB2	PRO	X	717	62.221	91.359	108.563	1.00	0.00	H
ATOM	8258	HB3	PRO	X	717	62.105	91.483	106.874	1.00	0.00	H
ATOM	8259	CA	PRO	X	717	61.488	89.477	107.928	1.00	0.00	C
ATOM	8260	HA	PRO	X	717	61.268	89.115	106.924	1.00	0.00	H
ATOM	8261	C	PRO	X	717	62.751	88.677	108.278	1.00	0.00	C
ATOM	8262	O	PRO	X	717	63.529	89.100	109.114	1.00	0.00	O
ATOM	8263	N	GLY	X	718	62.928	87.485	107.658	1.00	0.00	N
ATOM	8264	H	GLY	X	718	62.417	87.318	106.803	1.00	0.00	H
ATOM	8265	CA	GLY	X	718	63.870	86.461	107.901	1.00	0.00	C
ATOM	8266	HA2	GLY	X	718	64.882	86.758	108.177	1.00	0.00	H
ATOM	8267	HA3	GLY	X	718	63.505	85.720	108.611	1.00	0.00	H
ATOM	8268	C	GLY	X	718	64.160	85.548	106.668	1.00	0.00	C
ATOM	8269	O	GLY	X	718	64.630	86.077	105.664	1.00	0.00	O
ATOM	8270	N	PHE	X	719	64.114	84.221	106.757	1.00	0.00	N
ATOM	8271	H	PHE	X	719	63.880	83.729	107.609	1.00	0.00	H
ATOM	8272	CA	PHE	X	719	64.601	83.342	105.639	1.00	0.00	C
ATOM	8273	HA	PHE	X	719	65.638	83.606	105.427	1.00	0.00	H
ATOM	8274	CB	PHE	X	719	64.526	81.955	106.234	1.00	0.00	C
ATOM	8275	HB2	PHE	X	719	64.942	81.907	107.241	1.00	0.00	H
ATOM	8276	HB3	PHE	X	719	63.452	81.779	106.302	1.00	0.00	H
ATOM	8277	CG	PHE	X	719	65.137	80.904	105.368	1.00	0.00	C
ATOM	8278	CD1	PHE	X	719	66.520	80.655	105.422	1.00	0.00	C
ATOM	8279	HD1	PHE	X	719	67.091	81.307	106.066	1.00	0.00	H
ATOM	8280	CE1	PHE	X	719	67.124	79.652	104.628	1.00	0.00	C

ATOM	8281	HE1	PHE	X	719	68.198	79.604	104.733	1.00	0.00	H
ATOM	8282	CZ	PHE	X	719	66.281	79.030	103.689	1.00	0.00	C
ATOM	8283	HZ	PHE	X	719	66.600	78.376	102.892	1.00	0.00	H
ATOM	8284	CE2	PHE	X	719	64.915	79.300	103.559	1.00	0.00	C
ATOM	8285	HE2	PHE	X	719	64.323	78.727	102.861	1.00	0.00	H
ATOM	8286	CD2	PHE	X	719	64.319	80.222	104.461	1.00	0.00	C
ATOM	8287	HD2	PHE	X	719	63.244	80.320	104.414	1.00	0.00	H
ATOM	8288	C	PHE	X	719	63.929	83.338	104.202	1.00	0.00	C
ATOM	8289	O	PHE	X	719	64.531	82.953	103.218	1.00	0.00	O
ATOM	8290	N	LEU	X	720	62.792	83.967	103.979	1.00	0.00	N
ATOM	8291	H	LEU	X	720	62.257	84.388	104.726	1.00	0.00	H
ATOM	8292	CA	LEU	X	720	62.146	84.098	102.684	1.00	0.00	C
ATOM	8293	HA	LEU	X	720	62.704	83.557	101.920	1.00	0.00	H
ATOM	8294	CB	LEU	X	720	60.801	83.480	102.814	1.00	0.00	C
ATOM	8295	HB2	LEU	X	720	60.175	83.951	103.572	1.00	0.00	H
ATOM	8296	HB3	LEU	X	720	60.228	83.639	101.901	1.00	0.00	H
ATOM	8297	CG	LEU	X	720	60.774	81.949	103.094	1.00	0.00	C
ATOM	8298	HG	LEU	X	720	61.242	81.751	104.059	1.00	0.00	H
ATOM	8299	CD1	LEU	X	720	59.309	81.535	103.073	1.00	0.00	C
ATOM	8300	HD11	LEU	X	720	58.851	81.647	102.090	1.00	0.00	H
ATOM	8301	HD12	LEU	X	720	59.347	80.479	103.339	1.00	0.00	H
ATOM	8302	HD13	LEU	X	720	58.721	82.131	103.772	1.00	0.00	H
ATOM	8303	CD2	LEU	X	720	61.492	81.032	102.048	1.00	0.00	C
ATOM	8304	HD21	LEU	X	720	61.170	79.993	102.120	1.00	0.00	H
ATOM	8305	HD22	LEU	X	720	61.496	81.463	101.047	1.00	0.00	H
ATOM	8306	HD23	LEU	X	720	62.524	81.044	102.399	1.00	0.00	H
ATOM	8307	C	LEU	X	720	62.164	85.558	102.159	1.00	0.00	C
ATOM	8308	O	LEU	X	720	61.753	85.769	101.016	1.00	0.00	O
ATOM	8309	N	TRP	X	721	62.603	86.532	102.952	1.00	0.00	N
ATOM	8310	H	TRP	X	721	63.194	86.338	103.748	1.00	0.00	H
ATOM	8311	CA	TRP	X	721	62.413	87.960	102.604	1.00	0.00	C
ATOM	8312	HA	TRP	X	721	61.333	88.109	102.623	1.00	0.00	H
ATOM	8313	CB	TRP	X	721	63.036	88.792	103.691	1.00	0.00	C
ATOM	8314	HB2	TRP	X	721	62.545	88.431	104.596	1.00	0.00	H
ATOM	8315	HB3	TRP	X	721	64.116	88.649	103.718	1.00	0.00	H
ATOM	8316	CG	TRP	X	721	62.731	90.215	103.643	1.00	0.00	C
ATOM	8317	CD1	TRP	X	721	63.473	91.245	103.116	1.00	0.00	C
ATOM	8318	HD1	TRP	X	721	64.530	91.159	102.911	1.00	0.00	H
ATOM	8319	NE1	TRP	X	721	62.755	92.458	103.187	1.00	0.00	N
ATOM	8320	HE1	TRP	X	721	63.194	93.354	103.038	1.00	0.00	H
ATOM	8321	CE2	TRP	X	721	61.506	92.152	103.668	1.00	0.00	C
ATOM	8322	CZ2	TRP	X	721	60.415	92.995	103.858	1.00	0.00	C
ATOM	8323	HZ2	TRP	X	721	60.448	94.000	103.462	1.00	0.00	H
ATOM	8324	CH2	TRP	X	721	59.253	92.496	104.381	1.00	0.00	C
ATOM	8325	HH2	TRP	X	721	58.333	93.040	104.541	1.00	0.00	H
ATOM	8326	CZ3	TRP	X	721	59.093	91.108	104.629	1.00	0.00	C
ATOM	8327	HZ3	TRP	X	721	58.155	90.631	104.874	1.00	0.00	H
ATOM	8328	CE3	TRP	X	721	60.200	90.251	104.465	1.00	0.00	C
ATOM	8329	HE3	TRP	X	721	60.048	89.183	104.524	1.00	0.00	H
ATOM	8330	CD2	TRP	X	721	61.423	90.821	103.980	1.00	0.00	C
ATOM	8331	C	TRP	X	721	63.074	88.399	101.261	1.00	0.00	C
ATOM	8332	O	TRP	X	721	62.566	89.294	100.572	1.00	0.00	O
ATOM	8333	N	LEU	X	722	64.150	87.720	100.777	1.00	0.00	N
ATOM	8334	H	LEU	X	722	64.499	86.878	101.210	1.00	0.00	H
ATOM	8335	CA	LEU	X	722	64.718	88.090	99.473	1.00	0.00	C
ATOM	8336	HA	LEU	X	722	64.841	89.170	99.414	1.00	0.00	H
ATOM	8337	CB	LEU	X	722	66.119	87.445	99.308	1.00	0.00	C
ATOM	8338	HB2	LEU	X	722	65.968	86.373	99.177	1.00	0.00	H
ATOM	8339	HB3	LEU	X	722	66.351	87.811	98.308	1.00	0.00	H
ATOM	8340	CG	LEU	X	722	67.153	87.835	100.296	1.00	0.00	C
ATOM	8341	HG	LEU	X	722	66.773	87.766	101.316	1.00	0.00	H
ATOM	8342	CD1	LEU	X	722	68.345	86.966	100.262	1.00	0.00	C
ATOM	8343	HD11	LEU	X	722	69.058	87.256	101.035	1.00	0.00	H
ATOM	8344	HD12	LEU	X	722	68.084	85.925	100.453	1.00	0.00	H
ATOM	8345	HD13	LEU	X	722	68.820	87.038	99.284	1.00	0.00	H
ATOM	8346	CD2	LEU	X	722	67.510	89.290	100.134	1.00	0.00	C
ATOM	8347	HD21	LEU	X	722	66.642	89.930	99.975	1.00	0.00	H
ATOM	8348	HD22	LEU	X	722	67.978	89.672	101.041	1.00	0.00	H
ATOM	8349	HD23	LEU	X	722	68.225	89.399	99.318	1.00	0.00	H
ATOM	8350	C	LEU	X	722	63.792	87.663	98.345	1.00	0.00	C
ATOM	8351	O	LEU	X	722	63.712	88.457	97.448	1.00	0.00	O
ATOM	8352	N	ILE	X	723	63.128	86.500	98.461	1.00	0.00	N
ATOM	8353	H	ILE	X	723	63.419	85.939	99.248	1.00	0.00	H
ATOM	8354	CA	ILE	X	723	62.031	86.118	97.462	1.00	0.00	C
ATOM	8355	HA	ILE	X	723	62.379	86.213	96.433	1.00	0.00	H
ATOM	8356	CB	ILE	X	723	61.541	84.675	97.676	1.00	0.00	C
ATOM	8357	HB	ILE	X	723	61.506	84.388	98.726	1.00	0.00	H
ATOM	8358	CG2	ILE	X	723	60.181	84.299	97.086	1.00	0.00	C
ATOM	8359	HG21	ILE	X	723	59.992	83.240	97.268	1.00	0.00	H
ATOM	8360	HG22	ILE	X	723	59.383	84.880	97.548	1.00	0.00	H
ATOM	8361	HG23	ILE	X	723	60.180	84.557	96.028	1.00	0.00	H
ATOM	8362	CG1	ILE	X	723	62.567	83.707	97.071	1.00	0.00	C

ATOM	8363	HG12	ILE	X	723	62.823	84.098	96.086	1.00	0.00	H
ATOM	8364	HG13	ILE	X	723	63.513	83.804	97.605	1.00	0.00	H
ATOM	8365	CD1	ILE	X	723	62.302	82.162	96.908	1.00	0.00	C
ATOM	8366	HD11	ILE	X	723	61.410	81.989	96.307	1.00	0.00	H
ATOM	8367	HD12	ILE	X	723	63.144	81.721	96.374	1.00	0.00	H
ATOM	8368	HD13	ILE	X	723	62.195	81.663	97.870	1.00	0.00	H
ATOM	8369	C	ILE	X	723	60.832	87.159	97.453	1.00	0.00	C
ATOM	8370	O	ILE	X	723	60.350	87.522	96.383	1.00	0.00	O
ATOM	8371	N	ARG	X	724	60.411	87.643	98.601	1.00	0.00	N
ATOM	8372	H	ARG	X	724	60.950	87.312	99.386	1.00	0.00	H
ATOM	8373	CA	ARG	X	724	59.411	88.712	98.813	1.00	0.00	C
ATOM	8374	HA	ARG	X	724	58.531	88.404	98.247	1.00	0.00	H
ATOM	8375	CB	ARG	X	724	59.161	88.846	100.329	1.00	0.00	C
ATOM	8376	HB2	ARG	X	724	58.787	87.881	100.670	1.00	0.00	H
ATOM	8377	HB3	ARG	X	724	60.145	89.057	100.746	1.00	0.00	H
ATOM	8378	CG	ARG	X	724	58.309	90.056	100.863	1.00	0.00	C
ATOM	8379	HG2	ARG	X	724	58.690	90.263	101.862	1.00	0.00	H
ATOM	8380	HG3	ARG	X	724	58.415	91.017	100.361	1.00	0.00	H
ATOM	8381	CD	ARG	X	724	56.824	89.609	100.900	1.00	0.00	C
ATOM	8382	HD2	ARG	X	724	56.167	90.475	100.812	1.00	0.00	H
ATOM	8383	HD3	ARG	X	724	56.582	89.018	100.017	1.00	0.00	H
ATOM	8384	NE	ARG	X	724	56.472	88.769	102.095	1.00	0.00	N
ATOM	8385	HE	ARG	X	724	56.573	87.778	101.930	1.00	0.00	H
ATOM	8386	CZ	ARG	X	724	55.957	89.204	103.169	1.00	0.00	C
ATOM	8387	NH1	ARG	X	724	55.788	90.399	103.462	1.00	0.00	N
ATOM	8388	HH11	ARG	X	724	56.295	91.057	102.887	1.00	0.00	H
ATOM	8389	HH12	ARG	X	724	55.316	90.783	104.266	1.00	0.00	H
ATOM	8390	NH2	ARG	X	724	55.523	88.281	103.960	1.00	0.00	N
ATOM	8391	HH21	ARG	X	724	55.804	87.310	103.942	1.00	0.00	H
ATOM	8392	HH22	ARG	X	724	55.008	88.508	104.798	1.00	0.00	H
ATOM	8393	C	ARG	X	724	59.925	89.911	98.076	1.00	0.00	C
ATOM	8394	O	ARG	X	724	59.172	90.531	97.331	1.00	0.00	O
ATOM	8395	N	SER	X	725	61.151	90.336	98.380	1.00	0.00	N
ATOM	8396	H	SER	X	725	61.692	89.810	99.051	1.00	0.00	H
ATOM	8397	CA	SER	X	725	61.805	91.498	97.833	1.00	0.00	C
ATOM	8398	HA	SER	X	725	61.213	92.337	98.199	1.00	0.00	H
ATOM	8399	CB	SER	X	725	63.218	91.788	98.437	1.00	0.00	C
ATOM	8400	HB2	SER	X	725	63.927	90.964	98.374	1.00	0.00	H
ATOM	8401	HB3	SER	X	725	63.664	92.559	97.809	1.00	0.00	H
ATOM	8402	OG	SER	X	725	63.332	92.298	99.780	1.00	0.00	O
ATOM	8403	HG	SER	X	725	63.152	91.580	100.393	1.00	0.00	H
ATOM	8404	C	SER	X	725	61.907	91.510	96.314	1.00	0.00	C
ATOM	8405	O	SER	X	725	61.463	92.435	95.731	1.00	0.00	O
ATOM	8406	N	LEU	X	726	62.328	90.407	95.617	1.00	0.00	N
ATOM	8407	H	LEU	X	726	62.681	89.629	96.158	1.00	0.00	H
ATOM	8408	CA	LEU	X	726	62.283	90.439	94.140	1.00	0.00	C
ATOM	8409	HA	LEU	X	726	62.721	91.408	93.901	1.00	0.00	H
ATOM	8410	CB	LEU	X	726	63.303	89.321	93.645	1.00	0.00	C
ATOM	8411	HB2	LEU	X	726	63.486	89.511	92.587	1.00	0.00	H
ATOM	8412	HB3	LEU	X	726	64.220	89.415	94.227	1.00	0.00	H
ATOM	8413	CG	LEU	X	726	62.762	87.919	93.767	1.00	0.00	C
ATOM	8414	HG	LEU	X	726	62.208	87.860	94.703	1.00	0.00	H
ATOM	8415	CD1	LEU	X	726	61.852	87.472	92.611	1.00	0.00	C
ATOM	8416	HD11	LEU	X	726	61.425	86.494	92.839	1.00	0.00	H
ATOM	8417	HD12	LEU	X	726	61.029	88.126	92.323	1.00	0.00	H
ATOM	8418	HD13	LEU	X	726	62.324	87.339	91.638	1.00	0.00	H
ATOM	8419	CD2	LEU	X	726	63.830	86.844	94.023	1.00	0.00	C
ATOM	8420	HD21	LEU	X	726	64.238	87.078	95.006	1.00	0.00	H
ATOM	8421	HD22	LEU	X	726	63.407	85.849	94.155	1.00	0.00	H
ATOM	8422	HD23	LEU	X	726	64.627	86.918	93.283	1.00	0.00	H
ATOM	8423	C	LEU	X	726	60.850	90.345	93.474	1.00	0.00	C
ATOM	8424	O	LEU	X	726	60.686	90.722	92.345	1.00	0.00	O
ATOM	8425	N	TYR	X	727	59.798	89.807	94.212	1.00	0.00	N
ATOM	8426	H	TYR	X	727	60.063	89.314	95.054	1.00	0.00	H
ATOM	8427	CA	TYR	X	727	58.372	89.848	93.769	1.00	0.00	C
ATOM	8428	HA	TYR	X	727	58.212	89.579	92.726	1.00	0.00	H
ATOM	8429	CB	TYR	X	727	57.467	89.043	94.710	1.00	0.00	C
ATOM	8430	HB2	TYR	X	727	57.676	87.982	94.577	1.00	0.00	H
ATOM	8431	HB3	TYR	X	727	57.727	89.318	95.733	1.00	0.00	H
ATOM	8432	CG	TYR	X	727	55.993	89.199	94.483	1.00	0.00	C
ATOM	8433	CD1	TYR	X	727	55.174	89.936	95.370	1.00	0.00	C
ATOM	8434	HD1	TYR	X	727	55.614	90.422	96.229	1.00	0.00	H
ATOM	8435	CE1	TYR	X	727	53.769	90.219	95.092	1.00	0.00	C
ATOM	8436	HE1	TYR	X	727	53.172	90.800	95.780	1.00	0.00	H
ATOM	8437	CZ	TYR	X	727	53.229	89.685	93.904	1.00	0.00	C
ATOM	8438	OH	TYR	X	727	51.873	89.888	93.710	1.00	0.00	O
ATOM	8439	HH	TYR	X	727	51.356	90.315	94.397	1.00	0.00	H
ATOM	8440	CE2	TYR	X	727	54.037	89.038	92.989	1.00	0.00	C
ATOM	8441	HE2	TYR	X	727	53.664	88.791	92.005	1.00	0.00	H
ATOM	8442	CD2	TYR	X	727	55.414	88.776	93.285	1.00	0.00	C
ATOM	8443	HD2	TYR	X	727	55.965	88.317	92.476	1.00	0.00	H
ATOM	8444	C	TYR	X	727	57.791	91.265	93.808	1.00	0.00	C

ATOM	8445	O	TYR	X	727	57.184	91.737	92.821	1.00	0.00	O
ATOM	8446	N	GLU	X	728	58.136	91.982	94.910	1.00	0.00	N
ATOM	8447	H	GLU	X	728	58.805	91.555	95.535	1.00	0.00	H
ATOM	8448	CA	GLU	X	728	57.939	93.469	94.962	1.00	0.00	C
ATOM	8449	HA	GLU	X	728	56.870	93.676	94.911	1.00	0.00	H
ATOM	8450	CB	GLU	X	728	58.455	93.991	96.329	1.00	0.00	C
ATOM	8451	HB2	GLU	X	728	59.492	93.749	96.560	1.00	0.00	H
ATOM	8452	HB3	GLU	X	728	58.364	95.075	96.283	1.00	0.00	H
ATOM	8453	CG	GLU	X	728	57.673	93.545	97.594	1.00	0.00	C
ATOM	8454	HG2	GLU	X	728	57.636	92.466	97.740	1.00	0.00	H
ATOM	8455	HG3	GLU	X	728	58.215	93.919	98.463	1.00	0.00	H
ATOM	8456	CD	GLU	X	728	56.246	94.200	97.630	1.00	0.00	C
ATOM	8457	OE1	GLU	X	728	55.257	93.499	97.859	1.00	0.00	O
ATOM	8458	OE2	GLU	X	728	56.100	95.408	97.529	1.00	0.00	O
ATOM	8459	C	GLU	X	728	58.582	94.206	93.744	1.00	0.00	C
ATOM	8460	O	GLU	X	728	57.877	94.899	93.021	1.00	0.00	O
ATOM	8461	N	MET	X	729	59.837	93.788	93.405	1.00	0.00	N
ATOM	8462	H	MET	X	729	60.377	93.229	94.050	1.00	0.00	H
ATOM	8463	CA	MET	X	729	60.525	94.431	92.248	1.00	0.00	C
ATOM	8464	HA	MET	X	729	60.362	95.509	92.267	1.00	0.00	H
ATOM	8465	CB	MET	X	729	62.020	93.944	92.284	1.00	0.00	C
ATOM	8466	HB2	MET	X	729	62.368	93.885	93.316	1.00	0.00	H
ATOM	8467	HB3	MET	X	729	61.986	92.926	91.893	1.00	0.00	H
ATOM	8468	CG	MET	X	729	62.909	94.787	91.401	1.00	0.00	C
ATOM	8469	HG2	MET	X	729	62.869	94.494	90.352	1.00	0.00	H
ATOM	8470	HG3	MET	X	729	62.394	95.746	91.340	1.00	0.00	H
ATOM	8471	SD	MET	X	729	64.648	94.978	92.064	1.00	0.00	S
ATOM	8472	CE	MET	X	729	65.336	96.458	91.212	1.00	0.00	C
ATOM	8473	HE1	MET	X	729	66.407	96.502	91.414	1.00	0.00	H
ATOM	8474	HE2	MET	X	729	65.320	96.247	90.142	1.00	0.00	H
ATOM	8475	HE3	MET	X	729	64.861	97.380	91.544	1.00	0.00	H
ATOM	8476	C	MET	X	729	60.013	94.016	90.853	1.00	0.00	C
ATOM	8477	O	MET	X	729	60.335	94.632	89.817	1.00	0.00	O
ATOM	8478	N	GLN	X	730	59.148	92.984	90.779	1.00	0.00	N
ATOM	8479	H	GLN	X	730	58.945	92.545	91.666	1.00	0.00	H
ATOM	8480	CA	GLN	X	730	58.484	92.379	89.563	1.00	0.00	C
ATOM	8481	HA	GLN	X	730	57.844	91.590	89.958	1.00	0.00	H
ATOM	8482	CB	GLN	X	730	57.341	93.270	89.069	1.00	0.00	C
ATOM	8483	HB2	GLN	X	730	57.779	94.240	88.833	1.00	0.00	H
ATOM	8484	HB3	GLN	X	730	56.886	92.842	88.176	1.00	0.00	H
ATOM	8485	CG	GLN	X	730	56.246	93.390	90.073	1.00	0.00	C
ATOM	8486	HG2	GLN	X	730	56.548	93.670	91.082	1.00	0.00	H
ATOM	8487	HG3	GLN	X	730	55.600	94.194	89.720	1.00	0.00	H
ATOM	8488	CD	GLN	X	730	55.327	92.215	90.037	1.00	0.00	C
ATOM	8489	OE1	GLN	X	730	54.785	91.822	89.033	1.00	0.00	O
ATOM	8490	NE2	GLN	X	730	54.981	91.734	91.192	1.00	0.00	N
ATOM	8491	HE21	GLN	X	730	54.566	90.814	91.240	1.00	0.00	H
ATOM	8492	HE22	GLN	X	730	55.554	91.900	92.007	1.00	0.00	H
ATOM	8493	C	GLN	X	730	59.494	91.746	88.533	1.00	0.00	C
ATOM	8494	O	GLN	X	730	59.150	91.668	87.342	1.00	0.00	O
ATOM	8495	N	GLU	X	731	60.738	91.362	88.957	1.00	0.00	N
ATOM	8496	H	GLU	X	731	60.789	91.506	89.956	1.00	0.00	H
ATOM	8497	CA	GLU	X	731	61.926	91.231	88.127	1.00	0.00	C
ATOM	8498	HA	GLU	X	731	61.662	91.748	87.203	1.00	0.00	H
ATOM	8499	CB	GLU	X	731	63.075	91.971	88.827	1.00	0.00	C
ATOM	8500	HB2	GLU	X	731	62.721	93.003	88.819	1.00	0.00	H
ATOM	8501	HB3	GLU	X	731	63.305	91.614	89.831	1.00	0.00	H
ATOM	8502	CG	GLU	X	731	64.349	91.971	87.930	1.00	0.00	C
ATOM	8503	HG2	GLU	X	731	65.091	92.579	88.448	1.00	0.00	H
ATOM	8504	HG3	GLU	X	731	64.792	90.977	87.871	1.00	0.00	H
ATOM	8505	CD	GLU	X	731	64.266	92.519	86.570	1.00	0.00	C
ATOM	8506	OE1	GLU	X	731	64.554	91.797	85.614	1.00	0.00	O
ATOM	8507	OE2	GLU	X	731	64.015	93.738	86.387	1.00	0.00	O
ATOM	8508	C	GLU	X	731	62.303	89.750	87.909	1.00	0.00	C
ATOM	8509	O	GLU	X	731	62.689	89.038	88.817	1.00	0.00	O
ATOM	8510	N	GLU	X	732	62.160	89.300	86.631	1.00	0.00	N
ATOM	8511	H	GLU	X	732	61.695	89.791	85.882	1.00	0.00	H
ATOM	8512	CA	GLU	X	732	62.480	87.980	86.121	1.00	0.00	C
ATOM	8513	HA	GLU	X	732	61.880	87.261	86.679	1.00	0.00	H
ATOM	8514	CB	GLU	X	732	61.957	87.814	84.649	1.00	0.00	C
ATOM	8515	HB2	GLU	X	732	62.578	88.424	83.993	1.00	0.00	H
ATOM	8516	HB3	GLU	X	732	61.946	86.770	84.336	1.00	0.00	H
ATOM	8517	CG	GLU	X	732	60.472	88.131	84.393	1.00	0.00	C
ATOM	8518	HG2	GLU	X	732	60.215	87.733	83.410	1.00	0.00	H
ATOM	8519	HG3	GLU	X	732	59.920	87.639	85.193	1.00	0.00	H
ATOM	8520	CD	GLU	X	732	59.948	89.658	84.387	1.00	0.00	C
ATOM	8521	OE1	GLU	X	732	58.702	89.898	84.258	1.00	0.00	O
ATOM	8522	OE2	GLU	X	732	60.819	90.633	84.411	1.00	0.00	O
ATOM	8523	C	GLU	X	732	63.969	87.518	86.212	1.00	0.00	C
ATOM	8524	O	GLU	X	732	64.287	86.364	86.537	1.00	0.00	O
ATOM	8525	N	ARG	X	733	64.870	88.573	85.940	1.00	0.00	N
ATOM	8526	H	ARG	X	733	64.576	89.488	85.631	1.00	0.00	H

ATOM	8527	CA	ARG	X	733	66.319	88.373	86.057	1.00	0.00	C
ATOM	8528	HA	ARG	X	733	66.562	87.537	85.401	1.00	0.00	H
ATOM	8529	CB	ARG	X	733	67.148	89.678	85.656	1.00	0.00	C
ATOM	8530	HB2	ARG	X	733	66.950	90.621	86.165	1.00	0.00	H
ATOM	8531	HB3	ARG	X	733	68.199	89.396	85.713	1.00	0.00	H
ATOM	8532	CG	ARG	X	733	67.144	90.016	84.180	1.00	0.00	C
ATOM	8533	HG2	ARG	X	733	67.884	89.420	83.649	1.00	0.00	H
ATOM	8534	HG3	ARG	X	733	66.189	89.812	83.698	1.00	0.00	H
ATOM	8535	CD	ARG	X	733	67.664	91.420	83.940	1.00	0.00	C
ATOM	8536	HD2	ARG	X	733	68.538	91.545	84.577	1.00	0.00	H
ATOM	8537	HD3	ARG	X	733	67.965	91.487	82.895	1.00	0.00	H
ATOM	8538	NE	ARG	X	733	66.680	92.473	84.187	1.00	0.00	N
ATOM	8539	HE	ARG	X	733	66.039	92.297	84.947	1.00	0.00	H
ATOM	8540	CZ	ARG	X	733	66.516	93.590	83.599	1.00	0.00	C
ATOM	8541	NH1	ARG	X	733	67.263	94.019	82.676	1.00	0.00	N
ATOM	8542	HH11	ARG	X	733	68.139	93.552	82.498	1.00	0.00	H
ATOM	8543	HH12	ARG	X	733	66.975	94.844	82.171	1.00	0.00	H
ATOM	8544	NH2	ARG	X	733	65.454	94.267	83.884	1.00	0.00	N
ATOM	8545	HH21	ARG	X	733	64.910	93.932	84.666	1.00	0.00	H
ATOM	8546	HH22	ARG	X	733	65.117	95.083	83.392	1.00	0.00	H
ATOM	8547	C	ARG	X	733	66.701	88.031	87.492	1.00	0.00	C
ATOM	8548	O	ARG	X	733	67.556	87.210	87.724	1.00	0.00	O
ATOM	8549	N	LEU	X	734	65.878	88.443	88.526	1.00	0.00	N
ATOM	8550	H	LEU	X	734	65.027	88.963	88.362	1.00	0.00	H
ATOM	8551	CA	LEU	X	734	66.019	88.040	89.873	1.00	0.00	C
ATOM	8552	HA	LEU	X	734	67.002	87.634	90.109	1.00	0.00	H
ATOM	8553	CB	LEU	X	734	65.698	89.185	90.824	1.00	0.00	C
ATOM	8554	HB2	LEU	X	734	64.610	89.237	90.794	1.00	0.00	H
ATOM	8555	HB3	LEU	X	734	65.829	88.815	91.840	1.00	0.00	H
ATOM	8556	CG	LEU	X	734	66.506	90.491	90.751	1.00	0.00	C
ATOM	8557	HG	LEU	X	734	66.201	90.974	89.822	1.00	0.00	H
ATOM	8558	CD1	LEU	X	734	66.092	91.428	91.906	1.00	0.00	C
ATOM	8559	HD11	LEU	X	734	66.653	92.364	91.913	1.00	0.00	H
ATOM	8560	HD12	LEU	X	734	65.019	91.601	91.838	1.00	0.00	H
ATOM	8561	HD13	LEU	X	734	66.232	90.865	92.828	1.00	0.00	H
ATOM	8562	CD2	LEU	X	734	68.064	90.288	90.599	1.00	0.00	C
ATOM	8563	HD21	LEU	X	734	68.486	89.686	91.405	1.00	0.00	H
ATOM	8564	HD22	LEU	X	734	68.431	89.892	89.653	1.00	0.00	H
ATOM	8565	HD23	LEU	X	734	68.419	91.283	90.871	1.00	0.00	H
ATOM	8566	C	LEU	X	734	65.043	86.867	90.164	1.00	0.00	C
ATOM	8567	O	LEU	X	734	65.434	86.007	90.966	1.00	0.00	O
ATOM	8568	N	ALA	X	735	63.872	86.723	89.561	1.00	0.00	N
ATOM	8569	H	ALA	X	735	63.603	87.424	88.885	1.00	0.00	H
ATOM	8570	CA	ALA	X	735	63.126	85.481	89.700	1.00	0.00	C
ATOM	8571	HA	ALA	X	735	62.985	85.473	90.781	1.00	0.00	H
ATOM	8572	CB	ALA	X	735	61.736	85.840	89.129	1.00	0.00	C
ATOM	8573	HB1	ALA	X	735	61.924	85.789	88.057	1.00	0.00	H
ATOM	8574	HB2	ALA	X	735	61.059	85.006	89.315	1.00	0.00	H
ATOM	8575	HB3	ALA	X	735	61.448	86.885	89.244	1.00	0.00	H
ATOM	8576	C	ALA	X	735	63.790	84.135	89.248	1.00	0.00	C
ATOM	8577	O	ALA	X	735	63.827	83.097	89.891	1.00	0.00	O
ATOM	8578	N	GLN	X	736	64.444	84.174	88.077	1.00	0.00	N
ATOM	8579	H	GLN	X	736	64.292	84.921	87.415	1.00	0.00	H
ATOM	8580	CA	GLN	X	736	65.300	83.112	87.585	1.00	0.00	C
ATOM	8581	HA	GLN	X	736	64.709	82.197	87.643	1.00	0.00	H
ATOM	8582	CB	GLN	X	736	65.688	83.412	86.113	1.00	0.00	C
ATOM	8583	HB2	GLN	X	736	64.793	83.221	85.521	1.00	0.00	H
ATOM	8584	HB3	GLN	X	736	66.003	84.453	86.027	1.00	0.00	H
ATOM	8585	CG	GLN	X	736	66.820	82.493	85.595	1.00	0.00	C
ATOM	8586	HG2	GLN	X	736	67.038	82.849	84.590	1.00	0.00	H
ATOM	8587	HG3	GLN	X	736	67.755	82.575	86.150	1.00	0.00	H
ATOM	8588	CD	GLN	X	736	66.388	81.026	85.503	1.00	0.00	C
ATOM	8589	OE1	GLN	X	736	65.356	80.623	85.930	1.00	0.00	O
ATOM	8590	NE2	GLN	X	736	67.238	80.166	84.935	1.00	0.00	N
ATOM	8591	HE21	GLN	X	736	66.951	79.202	84.840	1.00	0.00	H
ATOM	8592	HE22	GLN	X	736	68.214	80.414	84.988	1.00	0.00	H
ATOM	8593	C	GLN	X	736	66.578	82.896	88.436	1.00	0.00	C
ATOM	8594	O	GLN	X	736	67.062	81.806	88.664	1.00	0.00	O
ATOM	8595	N	GLU	X	737	67.144	83.952	88.956	1.00	0.00	N
ATOM	8596	H	GLU	X	737	66.922	84.888	88.642	1.00	0.00	H
ATOM	8597	CA	GLU	X	737	68.390	83.876	89.817	1.00	0.00	C
ATOM	8598	HA	GLU	X	737	69.177	83.301	89.330	1.00	0.00	H
ATOM	8599	CB	GLU	X	737	68.913	85.297	90.024	1.00	0.00	C
ATOM	8600	HB2	GLU	X	737	69.204	85.605	89.019	1.00	0.00	H
ATOM	8601	HB3	GLU	X	737	68.069	85.957	90.222	1.00	0.00	H
ATOM	8602	CG	GLU	X	737	70.105	85.587	90.976	1.00	0.00	C
ATOM	8603	HG2	GLU	X	737	70.465	86.616	90.992	1.00	0.00	H
ATOM	8604	HG3	GLU	X	737	69.876	85.547	92.041	1.00	0.00	H
ATOM	8605	CD	GLU	X	737	71.338	84.745	90.707	1.00	0.00	C
ATOM	8606	OE1	GLU	X	737	72.050	84.366	91.634	1.00	0.00	O
ATOM	8607	OE2	GLU	X	737	71.646	84.613	89.474	1.00	0.00	O
ATOM	8608	C	GLU	X	737	68.018	83.239	91.188	1.00	0.00	C

ATOM	8609	O	GLU	X	737	68.884	82.653	91.867	1.00	0.00	O
ATOM	8610	N	ALA	X	738	66.758	83.308	91.565	1.00	0.00	N
ATOM	8611	H	ALA	X	738	66.010	83.725	91.029	1.00	0.00	H
ATOM	8612	CA	ALA	X	738	66.262	82.635	92.739	1.00	0.00	C
ATOM	8613	HA	ALA	X	738	67.007	82.667	93.533	1.00	0.00	H
ATOM	8614	CB	ALA	X	738	65.034	83.361	93.233	1.00	0.00	C
ATOM	8615	HB1	ALA	X	738	64.530	82.873	94.066	1.00	0.00	H
ATOM	8616	HB2	ALA	X	738	65.308	84.405	93.393	1.00	0.00	H
ATOM	8617	HB3	ALA	X	738	64.312	83.335	92.417	1.00	0.00	H
ATOM	8618	C	ALA	X	738	66.035	81.138	92.464	1.00	0.00	C
ATOM	8619	O	ALA	X	738	66.172	80.276	93.366	1.00	0.00	O
ATOM	8620	N	VAL	X	739	65.791	80.790	91.170	1.00	0.00	N
ATOM	8621	H	VAL	X	739	65.838	81.553	90.510	1.00	0.00	H
ATOM	8622	CA	VAL	X	739	65.780	79.405	90.641	1.00	0.00	C
ATOM	8623	HA	VAL	X	739	65.382	78.688	91.360	1.00	0.00	H
ATOM	8624	CB	VAL	X	739	64.899	79.382	89.392	1.00	0.00	C
ATOM	8625	HB	VAL	X	739	65.338	80.168	88.777	1.00	0.00	H
ATOM	8626	CG1	VAL	X	739	65.121	78.179	88.577	1.00	0.00	C
ATOM	8627	HG11	VAL	X	739	66.191	78.128	88.378	1.00	0.00	H
ATOM	8628	HG12	VAL	X	739	64.835	77.377	89.258	1.00	0.00	H
ATOM	8629	HG13	VAL	X	739	64.683	78.186	87.580	1.00	0.00	H
ATOM	8630	CG2	VAL	X	739	63.423	79.577	89.694	1.00	0.00	C
ATOM	8631	HG21	VAL	X	739	63.370	80.650	89.880	1.00	0.00	H
ATOM	8632	HG22	VAL	X	739	62.722	79.238	88.932	1.00	0.00	H
ATOM	8633	HG23	VAL	X	739	63.239	78.960	90.574	1.00	0.00	H
ATOM	8634	C	VAL	X	739	67.201	78.768	90.571	1.00	0.00	C
ATOM	8635	O	VAL	X	739	67.392	77.606	91.034	1.00	0.00	O
ATOM	8636	N	ARG	X	740	68.135	79.535	90.067	1.00	0.00	N
ATOM	8637	H	ARG	X	740	67.795	80.324	89.537	1.00	0.00	H
ATOM	8638	CA	ARG	X	740	69.565	79.191	90.119	1.00	0.00	C
ATOM	8639	HA	ARG	X	740	69.731	78.243	89.608	1.00	0.00	H
ATOM	8640	CB	ARG	X	740	70.277	80.232	89.272	1.00	0.00	C
ATOM	8641	HB2	ARG	X	740	70.061	80.077	88.215	1.00	0.00	H
ATOM	8642	HB3	ARG	X	740	69.965	81.251	89.500	1.00	0.00	H
ATOM	8643	CG	ARG	X	740	71.754	80.181	89.264	1.00	0.00	C
ATOM	8644	HG2	ARG	X	740	72.116	80.679	90.163	1.00	0.00	H
ATOM	8645	HG3	ARG	X	740	72.034	79.128	89.250	1.00	0.00	H
ATOM	8646	CD	ARG	X	740	72.473	80.839	88.067	1.00	0.00	C
ATOM	8647	HD2	ARG	X	740	73.543	80.727	88.237	1.00	0.00	H
ATOM	8648	HD3	ARG	X	740	72.129	80.415	87.122	1.00	0.00	H
ATOM	8649	NE	ARG	X	740	72.177	82.262	87.932	1.00	0.00	N
ATOM	8650	HE	ARG	X	740	72.130	82.868	88.738	1.00	0.00	H
ATOM	8651	CZ	ARG	X	740	72.206	82.957	86.839	1.00	0.00	C
ATOM	8652	NH1	ARG	X	740	72.698	82.689	85.697	1.00	0.00	N
ATOM	8653	HH11	ARG	X	740	73.135	81.786	85.583	1.00	0.00	H
ATOM	8654	HH12	ARG	X	740	72.462	83.366	84.984	1.00	0.00	H
ATOM	8655	NH2	ARG	X	740	71.661	84.079	86.871	1.00	0.00	N
ATOM	8656	HH21	ARG	X	740	71.457	84.507	87.761	1.00	0.00	H
ATOM	8657	HH22	ARG	X	740	71.372	84.538	86.019	1.00	0.00	H
ATOM	8658	C	ARG	X	740	69.998	78.986	91.521	1.00	0.00	C
ATOM	8659	O	ARG	X	740	70.793	78.085	91.805	1.00	0.00	O
ATOM	8660	N	GLY	X	741	69.366	79.741	92.515	1.00	0.00	N
ATOM	8661	H	GLY	X	741	68.864	80.550	92.175	1.00	0.00	H
ATOM	8662	CA	GLY	X	741	69.626	79.642	93.901	1.00	0.00	C
ATOM	8663	HA2	GLY	X	741	70.699	79.594	94.085	1.00	0.00	H
ATOM	8664	HA3	GLY	X	741	69.297	80.578	94.352	1.00	0.00	H
ATOM	8665	C	GLY	X	741	68.948	78.425	94.618	1.00	0.00	C
ATOM	8666	O	GLY	X	741	69.563	77.706	95.473	1.00	0.00	O
ATOM	8667	N	LEU	X	742	67.700	78.186	94.288	1.00	0.00	N
ATOM	8668	H	LEU	X	742	67.197	78.913	93.799	1.00	0.00	H
ATOM	8669	CA	LEU	X	742	66.993	76.918	94.474	1.00	0.00	C
ATOM	8670	HA	LEU	X	742	67.443	76.420	95.333	1.00	0.00	H
ATOM	8671	CB	LEU	X	742	65.455	77.154	94.527	1.00	0.00	C
ATOM	8672	HB2	LEU	X	742	65.118	77.813	93.726	1.00	0.00	H
ATOM	8673	HB3	LEU	X	742	64.959	76.197	94.362	1.00	0.00	H
ATOM	8674	CG	LEU	X	742	65.045	77.711	95.930	1.00	0.00	C
ATOM	8675	HG	LEU	X	742	65.585	78.619	96.195	1.00	0.00	H
ATOM	8676	CD1	LEU	X	742	63.677	78.242	95.689	1.00	0.00	C
ATOM	8677	HD11	LEU	X	742	63.834	79.161	95.123	1.00	0.00	H
ATOM	8678	HD12	LEU	X	742	63.006	77.549	95.179	1.00	0.00	H
ATOM	8679	HD13	LEU	X	742	63.225	78.552	96.631	1.00	0.00	H
ATOM	8680	CD2	LEU	X	742	65.025	76.728	97.098	1.00	0.00	C
ATOM	8681	HD21	LEU	X	742	64.470	77.109	97.956	1.00	0.00	H
ATOM	8682	HD22	LEU	X	742	64.488	75.849	96.740	1.00	0.00	H
ATOM	8683	HD23	LEU	X	742	66.056	76.407	97.247	1.00	0.00	H
ATOM	8684	C	LEU	X	742	67.451	75.839	93.436	1.00	0.00	C
ATOM	8685	O	LEU	X	742	66.600	75.231	92.763	1.00	0.00	O
ATOM	8686	N	ASN	X	743	68.717	75.466	93.323	1.00	0.00	N
ATOM	8687	H	ASN	X	743	69.362	76.056	93.829	1.00	0.00	H
ATOM	8688	CA	ASN	X	743	69.319	74.429	92.536	1.00	0.00	C
ATOM	8689	HA	ASN	X	743	68.922	74.222	91.541	1.00	0.00	H
ATOM	8690	CB	ASN	X	743	70.805	74.637	92.372	1.00	0.00	C

ATOM	8691	HB2	ASN	X	743	71.382	73.779	92.026	1.00	0.00	H
ATOM	8692	HB3	ASN	X	743	70.906	75.418	91.619	1.00	0.00	H
ATOM	8693	CG	ASN	X	743	71.408	74.985	93.709	1.00	0.00	C
ATOM	8694	OD1	ASN	X	743	71.550	74.123	94.598	1.00	0.00	O
ATOM	8695	ND2	ASN	X	743	71.745	76.237	94.052	1.00	0.00	N
ATOM	8696	HD21	ASN	X	743	71.862	76.489	95.024	1.00	0.00	H
ATOM	8697	HD22	ASN	X	743	71.722	76.958	93.346	1.00	0.00	H
ATOM	8698	C	ASN	X	743	69.039	73.007	93.137	1.00	0.00	C
ATOM	8699	O	ASN	X	743	69.451	71.967	92.638	1.00	0.00	O
ATOM	8700	N	VAL	X	744	68.340	72.926	94.270	1.00	0.00	N
ATOM	8701	H	VAL	X	744	68.160	73.803	94.740	1.00	0.00	H
ATOM	8702	CA	VAL	X	744	67.913	71.740	95.082	1.00	0.00	C
ATOM	8703	HA	VAL	X	744	68.848	71.183	95.144	1.00	0.00	H
ATOM	8704	CB	VAL	X	744	67.458	72.225	96.509	1.00	0.00	C
ATOM	8705	HB	VAL	X	744	67.380	71.382	97.197	1.00	0.00	H
ATOM	8706	CG1	VAL	X	744	68.552	73.191	97.067	1.00	0.00	C
ATOM	8707	HG11	VAL	X	744	69.569	72.835	96.899	1.00	0.00	H
ATOM	8708	HG12	VAL	X	744	68.464	74.148	96.552	1.00	0.00	H
ATOM	8709	HG13	VAL	X	744	68.431	73.412	98.128	1.00	0.00	H
ATOM	8710	CG2	VAL	X	744	66.046	72.774	96.626	1.00	0.00	C
ATOM	8711	HG21	VAL	X	744	65.848	73.037	97.666	1.00	0.00	H
ATOM	8712	HG22	VAL	X	744	65.860	73.736	96.147	1.00	0.00	H
ATOM	8713	HG23	VAL	X	744	65.214	72.116	96.370	1.00	0.00	H
ATOM	8714	C	VAL	X	744	66.848	70.847	94.384	1.00	0.00	C
ATOM	8715	O	VAL	X	744	65.959	71.373	93.760	1.00	0.00	O
ATOM	8716	N	GLU	X	745	67.030	69.554	94.507	1.00	0.00	N
ATOM	8717	H	GLU	X	745	67.908	69.230	94.889	1.00	0.00	H
ATOM	8718	CA	GLU	X	745	66.094	68.548	94.048	1.00	0.00	C
ATOM	8719	HA	GLU	X	745	65.626	68.717	93.080	1.00	0.00	H
ATOM	8720	CB	GLU	X	745	66.842	67.220	93.847	1.00	0.00	C
ATOM	8721	HB2	GLU	X	745	67.214	66.931	94.831	1.00	0.00	H
ATOM	8722	HB3	GLU	X	745	66.188	66.383	93.603	1.00	0.00	H
ATOM	8723	CG	GLU	X	745	67.940	67.206	92.806	1.00	0.00	C
ATOM	8724	HG2	GLU	X	745	68.665	67.924	93.188	1.00	0.00	H
ATOM	8725	HG3	GLU	X	745	68.454	66.250	92.707	1.00	0.00	H
ATOM	8726	CD	GLU	X	745	67.638	67.877	91.524	1.00	0.00	C
ATOM	8727	OE1	GLU	X	745	68.590	68.321	90.841	1.00	0.00	O
ATOM	8728	OE2	GLU	X	745	66.480	67.861	91.102	1.00	0.00	O
ATOM	8729	C	GLU	X	745	64.806	68.410	94.926	1.00	0.00	C
ATOM	8730	O	GLU	X	745	63.768	68.117	94.412	1.00	0.00	O
ATOM	8731	N	HIE	X	746	64.968	68.881	96.214	1.00	0.00	N
ATOM	8732	H	HIE	X	746	65.924	69.020	96.510	1.00	0.00	H
ATOM	8733	CA	HIE	X	746	64.020	68.971	97.249	1.00	0.00	C
ATOM	8734	HA	HIE	X	746	63.019	68.814	96.844	1.00	0.00	H
ATOM	8735	CB	HIE	X	746	64.209	67.855	98.280	1.00	0.00	C
ATOM	8736	HB2	HIE	X	746	63.998	66.932	97.741	1.00	0.00	H
ATOM	8737	HB3	HIE	X	746	65.253	67.835	98.594	1.00	0.00	H
ATOM	8738	CG	HIE	X	746	63.223	67.799	99.444	1.00	0.00	C
ATOM	8739	ND1	HIE	X	746	61.855	67.676	99.315	1.00	0.00	N
ATOM	8740	CE1	HIE	X	746	61.364	67.577	100.614	1.00	0.00	C
ATOM	8741	HE1	HIE	X	746	60.357	67.348	100.928	1.00	0.00	H
ATOM	8742	NE2	HIE	X	746	62.363	67.650	101.475	1.00	0.00	N
ATOM	8743	HE2	HIE	X	746	62.211	67.640	102.474	1.00	0.00	H
ATOM	8744	CD2	HIE	X	746	63.527	67.813	100.768	1.00	0.00	C
ATOM	8745	HD2	HIE	X	746	64.546	67.927	101.108	1.00	0.00	H
ATOM	8746	C	HIE	X	746	63.905	70.328	97.970	1.00	0.00	C
ATOM	8747	O	HIE	X	746	64.808	70.782	98.690	1.00	0.00	O
ATOM	8748	N	LEU	X	747	62.717	71.005	97.904	1.00	0.00	N
ATOM	8749	H	LEU	X	747	61.959	70.470	97.506	1.00	0.00	H
ATOM	8750	CA	LEU	X	747	62.375	72.296	98.492	1.00	0.00	C
ATOM	8751	HA	LEU	X	747	63.281	72.900	98.444	1.00	0.00	H
ATOM	8752	CB	LEU	X	747	61.240	73.033	97.658	1.00	0.00	C
ATOM	8753	HB2	LEU	X	747	60.333	72.432	97.687	1.00	0.00	H
ATOM	8754	HB3	LEU	X	747	60.977	74.036	97.993	1.00	0.00	H
ATOM	8755	CG	LEU	X	747	61.663	73.068	96.143	1.00	0.00	C
ATOM	8756	HG	LEU	X	747	61.974	72.123	95.698	1.00	0.00	H
ATOM	8757	CD1	LEU	X	747	60.460	73.647	95.337	1.00	0.00	C
ATOM	8758	HD11	LEU	X	747	60.011	74.467	95.898	1.00	0.00	H
ATOM	8759	HD12	LEU	X	747	60.644	73.995	94.320	1.00	0.00	H
ATOM	8760	HD13	LEU	X	747	59.719	72.851	95.263	1.00	0.00	H
ATOM	8761	CD2	LEU	X	747	62.770	74.005	95.811	1.00	0.00	C
ATOM	8762	HD21	LEU	X	747	62.384	75.012	95.961	1.00	0.00	H
ATOM	8763	HD22	LEU	X	747	63.664	73.834	96.412	1.00	0.00	H
ATOM	8764	HD23	LEU	X	747	62.849	73.959	94.725	1.00	0.00	H
ATOM	8765	C	LEU	X	747	62.012	72.080	99.913	1.00	0.00	C
ATOM	8766	O	LEU	X	747	60.807	71.819	100.221	1.00	0.00	O
ATOM	8767	N	LYS	X	748	62.963	72.184	100.813	1.00	0.00	N
ATOM	8768	H	LYS	X	748	63.916	72.170	100.476	1.00	0.00	H
ATOM	8769	CA	LYS	X	748	62.864	72.286	102.297	1.00	0.00	C
ATOM	8770	HA	LYS	X	748	62.218	71.491	102.669	1.00	0.00	H
ATOM	8771	CB	LYS	X	748	64.220	71.936	102.862	1.00	0.00	C
ATOM	8772	HB2	LYS	X	748	64.914	72.609	102.360	1.00	0.00	H

ATOM	8773	HB3	LYS	X	748	64.132	72.165	103.925	1.00	0.00	H
ATOM	8774	CG	LYS	X	748	64.744	70.525	102.613	1.00	0.00	C
ATOM	8775	HG2	LYS	X	748	63.927	69.910	102.993	1.00	0.00	H
ATOM	8776	HG3	LYS	X	748	64.882	70.378	101.542	1.00	0.00	H
ATOM	8777	CD	LYS	X	748	66.034	70.300	103.385	1.00	0.00	C
ATOM	8778	HD2	LYS	X	748	66.683	71.082	102.988	1.00	0.00	H
ATOM	8779	HD3	LYS	X	748	65.836	70.621	104.408	1.00	0.00	H
ATOM	8780	CE	LYS	X	748	66.560	68.907	103.332	1.00	0.00	C
ATOM	8781	HE2	LYS	X	748	65.867	68.151	103.697	1.00	0.00	H
ATOM	8782	HE3	LYS	X	748	66.756	68.627	102.297	1.00	0.00	H
ATOM	8783	NZ	LYS	X	748	67.810	68.821	104.114	1.00	0.00	N
ATOM	8784	HZ1	LYS	X	748	68.030	67.863	104.352	1.00	0.00	H
ATOM	8785	HZ2	LYS	X	748	68.583	69.301	103.675	1.00	0.00	H
ATOM	8786	HZ3	LYS	X	748	67.697	69.335	104.976	1.00	0.00	H
ATOM	8787	C	LYS	X	748	62.182	73.569	102.781	1.00	0.00	C
ATOM	8788	O	LYS	X	748	62.819	74.356	103.496	1.00	0.00	O
ATOM	8789	N	LEU	X	749	60.896	73.744	102.410	1.00	0.00	N
ATOM	8790	H	LEU	X	749	60.398	72.973	101.988	1.00	0.00	H
ATOM	8791	CA	LEU	X	749	60.132	74.917	102.919	1.00	0.00	C
ATOM	8792	HA	LEU	X	749	60.773	75.796	102.973	1.00	0.00	H
ATOM	8793	CB	LEU	X	749	59.149	75.510	101.837	1.00	0.00	C
ATOM	8794	HB2	LEU	X	749	58.475	74.681	101.621	1.00	0.00	H
ATOM	8795	HB3	LEU	X	749	58.497	76.225	102.338	1.00	0.00	H
ATOM	8796	CG	LEU	X	749	59.713	76.091	100.514	1.00	0.00	C
ATOM	8797	HG	LEU	X	749	60.193	75.291	99.949	1.00	0.00	H
ATOM	8798	CD1	LEU	X	749	58.529	76.737	99.736	1.00	0.00	C
ATOM	8799	HD11	LEU	X	749	57.985	77.415	100.393	1.00	0.00	H
ATOM	8800	HD12	LEU	X	749	58.863	77.447	98.980	1.00	0.00	H
ATOM	8801	HD13	LEU	X	749	57.805	76.023	99.343	1.00	0.00	H
ATOM	8802	CD2	LEU	X	749	60.835	77.165	100.711	1.00	0.00	C
ATOM	8803	HD21	LEU	X	749	61.055	77.512	99.701	1.00	0.00	H
ATOM	8804	HD22	LEU	X	749	60.395	77.997	101.262	1.00	0.00	H
ATOM	8805	HD23	LEU	X	749	61.721	76.686	101.128	1.00	0.00	H
ATOM	8806	C	LEU	X	749	59.565	74.631	104.310	1.00	0.00	C
ATOM	8807	O	LEU	X	749	58.728	75.391	104.750	1.00	0.00	O
ATOM	8808	N	THR	X	750	59.909	73.545	105.021	1.00	0.00	N
ATOM	8809	H	THR	X	750	60.834	73.200	104.808	1.00	0.00	H
ATOM	8810	CA	THR	X	750	59.300	73.161	106.357	1.00	0.00	C
ATOM	8811	HA	THR	X	750	58.210	73.206	106.333	1.00	0.00	H
ATOM	8812	CB	THR	X	750	59.662	71.738	106.721	1.00	0.00	C
ATOM	8813	HB	THR	X	750	59.341	71.055	105.935	1.00	0.00	H
ATOM	8814	CG2	THR	X	750	61.076	71.456	106.998	1.00	0.00	C
ATOM	8815	HG21	THR	X	750	61.431	72.029	107.855	1.00	0.00	H
ATOM	8816	HG22	THR	X	750	61.146	70.434	107.371	1.00	0.00	H
ATOM	8817	HG23	THR	X	750	61.826	71.510	106.210	1.00	0.00	H
ATOM	8818	OG1	THR	X	750	58.935	71.222	107.823	1.00	0.00	O
ATOM	8819	HG1	THR	X	750	58.030	71.508	107.678	1.00	0.00	H
ATOM	8820	C	THR	X	750	59.808	74.186	107.422	1.00	0.00	C
ATOM	8821	O	THR	X	750	60.912	74.638	107.373	1.00	0.00	O
ATOM	8822	N	PHE	X	751	58.895	74.463	108.375	1.00	0.00	N
ATOM	8823	H	PHE	X	751	58.015	73.976	108.297	1.00	0.00	H
ATOM	8824	CA	PHE	X	751	59.012	75.463	109.467	1.00	0.00	C
ATOM	8825	HA	PHE	X	751	58.026	75.513	109.928	1.00	0.00	H
ATOM	8826	CB	PHE	X	751	59.959	74.786	110.505	1.00	0.00	C
ATOM	8827	HB2	PHE	X	751	59.651	73.779	110.786	1.00	0.00	H
ATOM	8828	HB3	PHE	X	751	60.939	74.676	110.040	1.00	0.00	H
ATOM	8829	CG	PHE	X	751	60.181	75.493	111.833	1.00	0.00	C
ATOM	8830	CD1	PHE	X	751	61.492	75.708	112.271	1.00	0.00	C
ATOM	8831	HD1	PHE	X	751	62.234	75.213	111.663	1.00	0.00	H
ATOM	8832	CE1	PHE	X	751	61.707	76.263	113.551	1.00	0.00	C
ATOM	8833	HE1	PHE	X	751	62.707	76.375	113.941	1.00	0.00	H
ATOM	8834	CZ	PHE	X	751	60.615	76.623	114.396	1.00	0.00	C
ATOM	8835	HZ	PHE	X	751	60.746	76.938	115.420	1.00	0.00	H
ATOM	8836	CE2	PHE	X	751	59.299	76.377	113.957	1.00	0.00	C
ATOM	8837	HE2	PHE	X	751	58.410	76.652	114.505	1.00	0.00	H
ATOM	8838	CD2	PHE	X	751	59.125	75.772	112.675	1.00	0.00	C
ATOM	8839	HD2	PHE	X	751	58.149	75.417	112.383	1.00	0.00	H
ATOM	8840	C	PHE	X	751	59.541	76.867	108.960	1.00	0.00	C
ATOM	8841	O	PHE	X	751	60.172	77.617	109.711	1.00	0.00	O
ATOM	8842	N	CYS	X	752	59.307	77.247	107.727	1.00	0.00	N
ATOM	8843	H	CYS	X	752	58.736	76.643	107.153	1.00	0.00	H
ATOM	8844	CA	CYS	X	752	59.630	78.525	107.156	1.00	0.00	C
ATOM	8845	HA	CYS	X	752	60.489	78.885	107.721	1.00	0.00	H
ATOM	8846	CB	CYS	X	752	60.117	78.286	105.692	1.00	0.00	C
ATOM	8847	HB2	CYS	X	752	59.432	77.604	105.189	1.00	0.00	H
ATOM	8848	HB3	CYS	X	752	60.208	79.233	105.158	1.00	0.00	H
ATOM	8849	SG	CYS	X	752	61.693	77.421	105.753	1.00	0.00	S
ATOM	8850	HG	CYS	X	752	61.014	76.600	106.560	1.00	0.00	H
ATOM	8851	C	CYS	X	752	58.515	79.532	107.282	1.00	0.00	C
ATOM	8852	O	CYS	X	752	58.596	80.558	106.692	1.00	0.00	O
ATOM	8853	N	GLY	X	753	57.594	79.362	108.199	1.00	0.00	N
ATOM	8854	H	GLY	X	753	57.539	78.455	108.640	1.00	0.00	H

ATOM	8855	CA	GLY	X	753	56.428	80.269	108.421	1.00	0.00	C
ATOM	8856	HA2	GLY	X	753	55.779	79.894	109.212	1.00	0.00	H
ATOM	8857	HA3	GLY	X	753	56.811	81.259	108.674	1.00	0.00	H
ATOM	8858	C	GLY	X	753	55.641	80.570	107.134	1.00	0.00	C
ATOM	8859	O	GLY	X	753	55.134	81.637	106.973	1.00	0.00	O
ATOM	8860	N	VAL	X	754	55.541	79.596	106.142	1.00	0.00	N
ATOM	8861	H	VAL	X	754	55.844	78.650	106.327	1.00	0.00	H
ATOM	8862	CA	VAL	X	754	54.913	79.824	104.806	1.00	0.00	C
ATOM	8863	HA	VAL	X	754	55.315	80.762	104.427	1.00	0.00	H
ATOM	8864	CB	VAL	X	754	55.214	78.700	103.820	1.00	0.00	C
ATOM	8865	HB	VAL	X	754	55.074	77.718	104.272	1.00	0.00	H
ATOM	8866	CG1	VAL	X	754	54.672	78.855	102.372	1.00	0.00	C
ATOM	8867	HG11	VAL	X	754	54.913	77.993	101.749	1.00	0.00	H
ATOM	8868	HG12	VAL	X	754	53.593	78.971	102.287	1.00	0.00	H
ATOM	8869	HG13	VAL	X	754	55.186	79.714	101.938	1.00	0.00	H
ATOM	8870	CG2	VAL	X	754	56.745	78.513	103.595	1.00	0.00	C
ATOM	8871	HG21	VAL	X	754	57.047	77.822	104.381	1.00	0.00	H
ATOM	8872	HG22	VAL	X	754	56.951	77.984	102.664	1.00	0.00	H
ATOM	8873	HG23	VAL	X	754	57.304	79.445	103.511	1.00	0.00	H
ATOM	8874	C	VAL	X	754	53.409	80.020	104.865	1.00	0.00	C
ATOM	8875	O	VAL	X	754	52.780	79.144	105.402	1.00	0.00	O
ATOM	8876	N	GLY	X	755	52.816	81.067	104.313	1.00	0.00	N
ATOM	8877	H	GLY	X	755	53.356	81.836	103.941	1.00	0.00	H
ATOM	8878	CA	GLY	X	755	51.412	81.459	104.498	1.00	0.00	C
ATOM	8879	HA2	GLY	X	755	50.802	80.557	104.435	1.00	0.00	H
ATOM	8880	HA3	GLY	X	755	51.321	82.018	105.430	1.00	0.00	H
ATOM	8881	C	GLY	X	755	50.904	82.236	103.320	1.00	0.00	C
ATOM	8882	O	GLY	X	755	51.647	82.470	102.393	1.00	0.00	O
ATOM	8883	N	PRO	X	756	49.639	82.674	103.388	1.00	0.00	N
ATOM	8884	CD	PRO	X	756	48.594	82.283	104.348	1.00	0.00	C
ATOM	8885	HD2	PRO	X	756	48.775	82.736	105.324	1.00	0.00	H
ATOM	8886	HD3	PRO	X	756	48.514	81.198	104.295	1.00	0.00	H
ATOM	8887	CG	PRO	X	756	47.244	82.803	103.804	1.00	0.00	C
ATOM	8888	HG2	PRO	X	756	46.639	83.243	104.598	1.00	0.00	H
ATOM	8889	HG3	PRO	X	756	46.820	81.926	103.315	1.00	0.00	H
ATOM	8890	CB	PRO	X	756	47.608	83.913	102.825	1.00	0.00	C
ATOM	8891	HB2	PRO	X	756	47.666	84.849	103.379	1.00	0.00	H
ATOM	8892	HB3	PRO	X	756	46.944	83.912	101.959	1.00	0.00	H
ATOM	8893	CA	PRO	X	756	48.973	83.406	102.285	1.00	0.00	C
ATOM	8894	HA	PRO	X	756	48.729	82.700	101.492	1.00	0.00	H
ATOM	8895	C	PRO	X	756	49.725	84.649	101.753	1.00	0.00	C
ATOM	8896	O	PRO	X	756	49.511	84.922	100.570	1.00	0.00	O
ATOM	8897	N	ALA	X	757	50.467	85.441	102.554	1.00	0.00	N
ATOM	8898	H	ALA	X	757	50.532	85.017	103.469	1.00	0.00	H
ATOM	8899	CA	ALA	X	757	51.335	86.603	102.149	1.00	0.00	C
ATOM	8900	HA	ALA	X	757	50.762	86.990	101.306	1.00	0.00	H
ATOM	8901	CB	ALA	X	757	51.475	87.601	103.241	1.00	0.00	C
ATOM	8902	HB1	ALA	X	757	52.129	88.420	102.944	1.00	0.00	H
ATOM	8903	HB2	ALA	X	757	50.478	88.023	103.365	1.00	0.00	H
ATOM	8904	HB3	ALA	X	757	51.943	87.163	104.122	1.00	0.00	H
ATOM	8905	C	ALA	X	757	52.711	86.179	101.411	1.00	0.00	C
ATOM	8906	O	ALA	X	757	53.310	87.045	100.830	1.00	0.00	O
ATOM	8907	N	GLU	X	758	53.148	84.947	101.419	1.00	0.00	N
ATOM	8908	H	GLU	X	758	52.775	84.290	102.091	1.00	0.00	H
ATOM	8909	CA	GLU	X	758	54.325	84.553	100.556	1.00	0.00	C
ATOM	8910	HA	GLU	X	758	54.967	85.401	100.320	1.00	0.00	H
ATOM	8911	CB	GLU	X	758	55.113	83.417	101.271	1.00	0.00	C
ATOM	8912	HB2	GLU	X	758	54.464	82.542	101.309	1.00	0.00	H
ATOM	8913	HB3	GLU	X	758	55.967	83.189	100.633	1.00	0.00	H
ATOM	8914	CG	GLU	X	758	55.655	83.665	102.684	1.00	0.00	C
ATOM	8915	HG2	GLU	X	758	54.827	83.529	103.379	1.00	0.00	H
ATOM	8916	HG3	GLU	X	758	56.494	82.990	102.853	1.00	0.00	H
ATOM	8917	CD	GLU	X	758	56.228	85.053	103.034	1.00	0.00	C
ATOM	8918	OE1	GLU	X	758	55.994	85.635	104.152	1.00	0.00	O
ATOM	8919	OE2	GLU	X	758	56.817	85.678	102.099	1.00	0.00	O
ATOM	8920	C	GLU	X	758	54.000	83.956	99.176	1.00	0.00	C
ATOM	8921	O	GLU	X	758	54.960	83.890	98.357	1.00	0.00	O
ATOM	8922	N	CYS	X	759	52.712	83.619	99.003	1.00	0.00	N
ATOM	8923	H	CYS	X	759	52.067	83.821	99.753	1.00	0.00	H
ATOM	8924	CA	CYS	X	759	52.400	82.626	97.925	1.00	0.00	C
ATOM	8925	HA	CYS	X	759	53.182	81.870	97.875	1.00	0.00	H
ATOM	8926	CB	CYS	X	759	51.092	82.038	98.237	1.00	0.00	C
ATOM	8927	HB2	CYS	X	759	50.222	82.648	98.480	1.00	0.00	H
ATOM	8928	HB3	CYS	X	759	50.720	81.490	97.370	1.00	0.00	H
ATOM	8929	SG	CYS	X	759	51.340	80.964	99.686	1.00	0.00	S
ATOM	8930	HG	CYS	X	759	51.516	81.992	100.520	1.00	0.00	H
ATOM	8931	C	CYS	X	759	52.408	83.257	96.486	1.00	0.00	C
ATOM	8932	O	CYS	X	759	52.824	82.503	95.555	1.00	0.00	O
ATOM	8933	N	ALA	X	760	52.177	84.584	96.291	1.00	0.00	N
ATOM	8934	H	ALA	X	760	51.621	85.086	96.969	1.00	0.00	H
ATOM	8935	CA	ALA	X	760	52.330	85.239	95.027	1.00	0.00	C
ATOM	8936	HA	ALA	X	760	51.853	84.586	94.299	1.00	0.00	H

ATOM	8937	CB	ALA	X	760	51.737	86.694	95.059	1.00	0.00	C
ATOM	8938	HB1	ALA	X	760	50.734	86.861	95.449	1.00	0.00	H
ATOM	8939	HB2	ALA	X	760	52.308	87.273	95.784	1.00	0.00	H
ATOM	8940	HB3	ALA	X	760	51.978	87.259	94.159	1.00	0.00	H
ATOM	8941	C	ALA	X	760	53.845	85.294	94.788	1.00	0.00	C
ATOM	8942	O	ALA	X	760	54.325	85.062	93.655	1.00	0.00	O
ATOM	8943	N	ALA	X	761	54.638	85.556	95.828	1.00	0.00	N
ATOM	8944	H	ALA	X	761	54.208	85.679	96.734	1.00	0.00	H
ATOM	8945	CA	ALA	X	761	56.045	85.833	95.725	1.00	0.00	C
ATOM	8946	HA	ALA	X	761	56.264	86.438	94.847	1.00	0.00	H
ATOM	8947	CB	ALA	X	761	56.493	86.617	96.976	1.00	0.00	C
ATOM	8948	HB1	ALA	X	761	56.009	87.592	97.010	1.00	0.00	H
ATOM	8949	HB2	ALA	X	761	56.226	86.007	97.840	1.00	0.00	H
ATOM	8950	HB3	ALA	X	761	57.569	86.789	96.948	1.00	0.00	H
ATOM	8951	C	ALA	X	761	56.717	84.492	95.399	1.00	0.00	C
ATOM	8952	O	ALA	X	761	57.727	84.455	94.690	1.00	0.00	O
ATOM	8953	N	LEU	X	762	56.152	83.340	95.796	1.00	0.00	N
ATOM	8954	H	LEU	X	762	55.403	83.379	96.472	1.00	0.00	H
ATOM	8955	CA	LEU	X	762	56.709	82.044	95.500	1.00	0.00	C
ATOM	8956	HA	LEU	X	762	57.784	82.210	95.438	1.00	0.00	H
ATOM	8957	CB	LEU	X	762	56.381	81.050	96.620	1.00	0.00	C
ATOM	8958	HB2	LEU	X	762	55.338	81.140	96.926	1.00	0.00	H
ATOM	8959	HB3	LEU	X	762	56.653	80.067	96.240	1.00	0.00	H
ATOM	8960	CG	LEU	X	762	57.140	81.401	97.932	1.00	0.00	C
ATOM	8961	HG	LEU	X	762	57.380	82.464	97.964	1.00	0.00	H
ATOM	8962	CD1	LEU	X	762	56.352	80.898	99.135	1.00	0.00	C
ATOM	8963	HD11	LEU	X	762	55.357	81.338	99.147	1.00	0.00	H
ATOM	8964	HD12	LEU	X	762	56.085	79.851	98.994	1.00	0.00	H
ATOM	8965	HD13	LEU	X	762	56.929	81.190	100.013	1.00	0.00	H
ATOM	8966	CD2	LEU	X	762	58.437	80.609	98.092	1.00	0.00	C
ATOM	8967	HD21	LEU	X	762	59.036	80.874	97.220	1.00	0.00	H
ATOM	8968	HD22	LEU	X	762	58.926	80.861	99.032	1.00	0.00	H
ATOM	8969	HD23	LEU	X	762	58.357	79.522	98.104	1.00	0.00	H
ATOM	8970	C	LEU	X	762	56.414	81.550	94.126	1.00	0.00	C
ATOM	8971	O	LEU	X	762	57.313	81.180	93.366	1.00	0.00	O
ATOM	8972	N	ALA	X	763	55.195	81.650	93.702	1.00	0.00	N
ATOM	8973	H	ALA	X	763	54.532	81.775	94.453	1.00	0.00	H
ATOM	8974	CA	ALA	X	763	54.657	81.401	92.344	1.00	0.00	C
ATOM	8975	HA	ALA	X	763	54.741	80.320	92.223	1.00	0.00	H
ATOM	8976	CB	ALA	X	763	53.146	81.842	92.307	1.00	0.00	C
ATOM	8977	HB1	ALA	X	763	52.732	81.843	91.299	1.00	0.00	H
ATOM	8978	HB2	ALA	X	763	52.445	81.269	92.913	1.00	0.00	H
ATOM	8979	HB3	ALA	X	763	53.109	82.843	92.738	1.00	0.00	H
ATOM	8980	C	ALA	X	763	55.354	82.203	91.267	1.00	0.00	C
ATOM	8981	O	ALA	X	763	55.544	81.844	90.106	1.00	0.00	O
ATOM	8982	N	PHE	X	764	55.810	83.410	91.632	1.00	0.00	N
ATOM	8983	H	PHE	X	764	55.768	83.660	92.611	1.00	0.00	H
ATOM	8984	CA	PHE	X	764	56.510	84.321	90.709	1.00	0.00	C
ATOM	8985	HA	PHE	X	764	55.959	84.392	89.771	1.00	0.00	H
ATOM	8986	CB	PHE	X	764	56.583	85.693	91.396	1.00	0.00	C
ATOM	8987	HB2	PHE	X	764	55.597	86.120	91.576	1.00	0.00	H
ATOM	8988	HB3	PHE	X	764	57.193	85.634	92.298	1.00	0.00	H
ATOM	8989	CG	PHE	X	764	57.132	86.728	90.480	1.00	0.00	C
ATOM	8990	CD1	PHE	X	764	56.445	87.110	89.283	1.00	0.00	C
ATOM	8991	HD1	PHE	X	764	55.446	86.703	89.326	1.00	0.00	H
ATOM	8992	CE1	PHE	X	764	56.929	88.135	88.474	1.00	0.00	C
ATOM	8993	HE1	PHE	X	764	56.449	88.503	87.580	1.00	0.00	H
ATOM	8994	CZ	PHE	X	764	58.211	88.645	88.795	1.00	0.00	C
ATOM	8995	HZ	PHE	X	764	58.567	89.529	88.287	1.00	0.00	H
ATOM	8996	CE2	PHE	X	764	58.949	88.218	89.860	1.00	0.00	C
ATOM	8997	HE2	PHE	X	764	59.886	88.702	90.094	1.00	0.00	H
ATOM	8998	CD2	PHE	X	764	58.405	87.243	90.721	1.00	0.00	C
ATOM	8999	HD2	PHE	X	764	58.941	86.921	91.603	1.00	0.00	H
ATOM	9000	C	PHE	X	764	57.947	83.789	90.463	1.00	0.00	C
ATOM	9001	O	PHE	X	764	58.323	83.737	89.278	1.00	0.00	O
ATOM	9002	N	VAL	X	765	58.607	83.074	91.407	1.00	0.00	N
ATOM	9003	H	VAL	X	765	58.122	83.006	92.290	1.00	0.00	H
ATOM	9004	CA	VAL	X	765	59.947	82.432	91.274	1.00	0.00	C
ATOM	9005	HA	VAL	X	765	60.455	83.139	90.618	1.00	0.00	H
ATOM	9006	CB	VAL	X	765	60.611	82.420	92.661	1.00	0.00	C
ATOM	9007	HB	VAL	X	765	59.835	82.126	93.368	1.00	0.00	H
ATOM	9008	CG1	VAL	X	765	61.797	81.390	92.613	1.00	0.00	C
ATOM	9009	HG11	VAL	X	765	62.362	81.731	91.745	1.00	0.00	H
ATOM	9010	HG12	VAL	X	765	62.502	81.579	93.422	1.00	0.00	H
ATOM	9011	HG13	VAL	X	765	61.514	80.340	92.537	1.00	0.00	H
ATOM	9012	CG2	VAL	X	765	61.139	83.786	93.169	1.00	0.00	C
ATOM	9013	HG21	VAL	X	765	61.667	83.648	94.114	1.00	0.00	H
ATOM	9014	HG22	VAL	X	765	61.784	84.266	92.431	1.00	0.00	H
ATOM	9015	HG23	VAL	X	765	60.307	84.426	93.463	1.00	0.00	H
ATOM	9016	C	VAL	X	765	59.728	81.017	90.581	1.00	0.00	C
ATOM	9017	O	VAL	X	765	60.305	80.759	89.547	1.00	0.00	O
ATOM	9018	N	LEU	X	766	58.792	80.267	91.111	1.00	0.00	N

ATOM	9019	H	LEU	X	766	58.592	80.445	92.085	1.00	0.00	H
ATOM	9020	CA	LEU	X	766	58.449	78.893	90.602	1.00	0.00	C
ATOM	9021	HA	LEU	X	766	59.395	78.385	90.411	1.00	0.00	H
ATOM	9022	CB	LEU	X	766	57.687	78.104	91.680	1.00	0.00	C
ATOM	9023	HB2	LEU	X	766	56.770	78.633	91.937	1.00	0.00	H
ATOM	9024	HB3	LEU	X	766	57.298	77.171	91.272	1.00	0.00	H
ATOM	9025	CG	LEU	X	766	58.453	77.958	93.024	1.00	0.00	C
ATOM	9026	HG	LEU	X	766	58.710	78.952	93.390	1.00	0.00	H
ATOM	9027	CD1	LEU	X	766	57.536	77.104	93.844	1.00	0.00	C
ATOM	9028	HD11	LEU	X	766	57.353	76.144	93.364	1.00	0.00	H
ATOM	9029	HD12	LEU	X	766	58.082	76.906	94.767	1.00	0.00	H
ATOM	9030	HD13	LEU	X	766	56.655	77.627	94.220	1.00	0.00	H
ATOM	9031	CD2	LEU	X	766	59.600	77.031	92.800	1.00	0.00	C
ATOM	9032	HD21	LEU	X	766	60.339	77.343	92.063	1.00	0.00	H
ATOM	9033	HD22	LEU	X	766	60.238	76.982	93.682	1.00	0.00	H
ATOM	9034	HD23	LEU	X	766	59.312	76.005	92.572	1.00	0.00	H
ATOM	9035	C	LEU	X	766	57.830	78.813	89.198	1.00	0.00	C
ATOM	9036	O	LEU	X	766	57.714	77.706	88.728	1.00	0.00	O
ATOM	9037	N	ARG	X	767	57.540	79.967	88.541	1.00	0.00	N
ATOM	9038	H	ARG	X	767	57.651	80.850	89.021	1.00	0.00	H
ATOM	9039	CA	ARG	X	767	57.379	80.119	87.070	1.00	0.00	C
ATOM	9040	HA	ARG	X	767	56.586	79.444	86.750	1.00	0.00	H
ATOM	9041	CB	ARG	X	767	56.937	81.597	86.704	1.00	0.00	C
ATOM	9042	HB2	ARG	X	767	55.958	81.765	87.156	1.00	0.00	H
ATOM	9043	HB3	ARG	X	767	57.676	82.211	87.219	1.00	0.00	H
ATOM	9044	CG	ARG	X	767	56.937	82.135	85.219	1.00	0.00	C
ATOM	9045	HG2	ARG	X	767	56.696	83.198	85.246	1.00	0.00	H
ATOM	9046	HG3	ARG	X	767	57.930	82.081	84.771	1.00	0.00	H
ATOM	9047	CD	ARG	X	767	55.901	81.322	84.508	1.00	0.00	C
ATOM	9048	HD2	ARG	X	767	56.101	80.254	84.599	1.00	0.00	H
ATOM	9049	HD3	ARG	X	767	54.919	81.519	84.941	1.00	0.00	H
ATOM	9050	NE	ARG	X	767	55.827	81.638	83.083	1.00	0.00	N
ATOM	9051	HE	ARG	X	767	56.188	82.547	82.835	1.00	0.00	H
ATOM	9052	CZ	ARG	X	767	55.034	81.015	82.217	1.00	0.00	C
ATOM	9053	NH1	ARG	X	767	54.434	79.900	82.437	1.00	0.00	N
ATOM	9054	HH11	ARG	X	767	54.321	79.569	83.385	1.00	0.00	H
ATOM	9055	HH12	ARG	X	767	53.842	79.620	81.669	1.00	0.00	H
ATOM	9056	NH2	ARG	X	767	54.873	81.514	81.051	1.00	0.00	N
ATOM	9057	HH21	ARG	X	767	55.397	82.357	80.871	1.00	0.00	H
ATOM	9058	HH22	ARG	X	767	54.350	80.994	80.360	1.00	0.00	H
ATOM	9059	C	ARG	X	767	58.586	79.737	86.213	1.00	0.00	C
ATOM	9060	O	ARG	X	767	58.365	79.094	85.188	1.00	0.00	O
ATOM	9061	N	HIE	X	768	59.789	80.058	86.656	1.00	0.00	N
ATOM	9062	H	HIE	X	768	59.768	80.684	87.449	1.00	0.00	H
ATOM	9063	CA	HIE	X	768	61.014	79.663	85.907	1.00	0.00	C
ATOM	9064	HA	HIE	X	768	60.826	79.550	84.841	1.00	0.00	H
ATOM	9065	CB	HIE	X	768	62.082	80.687	86.076	1.00	0.00	C
ATOM	9066	HB2	HIE	X	768	62.587	80.615	87.039	1.00	0.00	H
ATOM	9067	HB3	HIE	X	768	62.877	80.500	85.354	1.00	0.00	H
ATOM	9068	CG	HIE	X	768	61.637	82.100	86.111	1.00	0.00	C
ATOM	9069	ND1	HIE	X	768	61.600	82.830	84.951	1.00	0.00	N
ATOM	9070	CE1	HIE	X	768	61.183	84.047	85.373	1.00	0.00	C
ATOM	9071	HE1	HIE	X	768	60.903	84.809	84.662	1.00	0.00	H
ATOM	9072	NE2	HIE	X	768	60.787	83.947	86.671	1.00	0.00	N
ATOM	9073	HE2	HIE	X	768	60.277	84.682	87.140	1.00	0.00	H
ATOM	9074	CD2	HIE	X	768	61.304	82.817	87.201	1.00	0.00	C
ATOM	9075	HD2	HIE	X	768	61.283	82.575	88.253	1.00	0.00	H
ATOM	9076	C	HIE	X	768	61.582	78.284	86.296	1.00	0.00	C
ATOM	9077	O	HIE	X	768	62.548	77.865	85.647	1.00	0.00	O
ATOM	9078	N	LEU	X	769	61.092	77.580	87.386	1.00	0.00	N
ATOM	9079	H	LEU	X	769	60.292	77.894	87.917	1.00	0.00	H
ATOM	9080	CA	LEU	X	769	61.581	76.208	87.728	1.00	0.00	C
ATOM	9081	HA	LEU	X	769	62.550	76.088	87.242	1.00	0.00	H
ATOM	9082	CB	LEU	X	769	61.716	76.195	89.258	1.00	0.00	C
ATOM	9083	HB2	LEU	X	769	62.096	77.142	89.645	1.00	0.00	H
ATOM	9084	HB3	LEU	X	769	60.701	76.121	89.648	1.00	0.00	H
ATOM	9085	CG	LEU	X	769	62.533	75.017	89.872	1.00	0.00	C
ATOM	9086	HG	LEU	X	769	63.492	75.035	89.354	1.00	0.00	H
ATOM	9087	CD1	LEU	X	769	62.993	75.238	91.278	1.00	0.00	C
ATOM	9088	HD11	LEU	X	769	62.152	75.404	91.950	1.00	0.00	H
ATOM	9089	HD12	LEU	X	769	63.483	74.340	91.651	1.00	0.00	H
ATOM	9090	HD13	LEU	X	769	63.821	75.940	91.378	1.00	0.00	H
ATOM	9091	CD2	LEU	X	769	61.983	73.656	89.674	1.00	0.00	C
ATOM	9092	HD21	LEU	X	769	61.001	73.603	90.144	1.00	0.00	H
ATOM	9093	HD22	LEU	X	769	61.957	73.356	88.627	1.00	0.00	H
ATOM	9094	HD23	LEU	X	769	62.552	72.902	90.219	1.00	0.00	H
ATOM	9095	C	LEU	X	769	60.665	75.117	87.148	1.00	0.00	C
ATOM	9096	O	LEU	X	769	59.798	74.624	87.784	1.00	0.00	O
ATOM	9097	N	ARG	X	770	60.832	74.723	85.875	1.00	0.00	N
ATOM	9098	H	ARG	X	770	61.542	75.155	85.301	1.00	0.00	H
ATOM	9099	CA	ARG	X	770	59.961	73.770	85.291	1.00	0.00	C
ATOM	9100	HA	ARG	X	770	59.008	73.760	85.820	1.00	0.00	H

ATOM	9101	CB	ARG	X	770	59.731	74.126	83.867	1.00	0.00	C
ATOM	9102	HB2	ARG	X	770	60.706	74.050	83.384	1.00	0.00	H
ATOM	9103	HB3	ARG	X	770	59.358	73.266	83.309	1.00	0.00	H
ATOM	9104	CG	ARG	X	770	58.894	75.380	83.458	1.00	0.00	C
ATOM	9105	HG2	ARG	X	770	57.903	75.352	83.912	1.00	0.00	H
ATOM	9106	HG3	ARG	X	770	59.430	76.251	83.835	1.00	0.00	H
ATOM	9107	CD	ARG	X	770	58.598	75.500	81.978	1.00	0.00	C
ATOM	9108	HD2	ARG	X	770	59.500	75.682	81.392	1.00	0.00	H
ATOM	9109	HD3	ARG	X	770	58.137	74.584	81.609	1.00	0.00	H
ATOM	9110	NE	ARG	X	770	57.825	76.764	81.728	1.00	0.00	N
ATOM	9111	HE	ARG	X	770	58.052	77.595	82.257	1.00	0.00	H
ATOM	9112	CZ	ARG	X	770	57.059	77.072	80.711	1.00	0.00	C
ATOM	9113	NH1	ARG	X	770	56.704	76.154	79.804	1.00	0.00	N
ATOM	9114	HH11	ARG	X	770	57.052	75.208	79.736	1.00	0.00	H
ATOM	9115	HH12	ARG	X	770	56.042	76.467	79.109	1.00	0.00	H
ATOM	9116	NH2	ARG	X	770	56.743	78.354	80.607	1.00	0.00	N
ATOM	9117	HH21	ARG	X	770	56.906	79.016	81.352	1.00	0.00	H
ATOM	9118	HH22	ARG	X	770	56.205	78.640	79.800	1.00	0.00	H
ATOM	9119	C	ARG	X	770	60.459	72.353	85.412	1.00	0.00	C
ATOM	9120	O	ARG	X	770	59.721	71.462	84.996	1.00	0.00	O
ATOM	9121	N	ARG	X	771	61.683	72.067	85.926	1.00	0.00	N
ATOM	9122	H	ARG	X	771	62.350	72.816	85.805	1.00	0.00	H
ATOM	9123	CA	ARG	X	771	62.278	70.758	86.205	1.00	0.00	C
ATOM	9124	HA	ARG	X	771	62.130	70.186	85.289	1.00	0.00	H
ATOM	9125	CB	ARG	X	771	63.744	70.881	86.471	1.00	0.00	C
ATOM	9126	HB2	ARG	X	771	64.181	69.929	86.771	1.00	0.00	H
ATOM	9127	HB3	ARG	X	771	64.273	71.125	85.550	1.00	0.00	H
ATOM	9128	CG	ARG	X	771	64.090	71.935	87.537	1.00	0.00	C
ATOM	9129	HG2	ARG	X	771	63.936	72.942	87.148	1.00	0.00	H
ATOM	9130	HG3	ARG	X	771	63.555	71.652	88.444	1.00	0.00	H
ATOM	9131	CD	ARG	X	771	65.553	71.954	87.916	1.00	0.00	C
ATOM	9132	HD2	ARG	X	771	66.017	70.971	87.988	1.00	0.00	H
ATOM	9133	HD3	ARG	X	771	66.109	72.380	87.079	1.00	0.00	H
ATOM	9134	NE	ARG	X	771	65.732	72.650	89.162	1.00	0.00	N
ATOM	9135	HE	ARG	X	771	65.781	73.659	89.170	1.00	0.00	H
ATOM	9136	CZ	ARG	X	771	65.752	72.125	90.332	1.00	0.00	C
ATOM	9137	NH1	ARG	X	771	65.893	70.865	90.505	1.00	0.00	N
ATOM	9138	HH11	ARG	X	771	65.723	70.152	89.810	1.00	0.00	H
ATOM	9139	HH12	ARG	X	771	66.024	70.532	91.449	1.00	0.00	H
ATOM	9140	NH2	ARG	X	771	65.766	72.892	91.343	1.00	0.00	N
ATOM	9141	HH21	ARG	X	771	65.874	73.896	91.331	1.00	0.00	H
ATOM	9142	HH22	ARG	X	771	65.783	72.428	92.240	1.00	0.00	H
ATOM	9143	C	ARG	X	771	61.640	70.039	87.441	1.00	0.00	C
ATOM	9144	O	ARG	X	771	61.205	70.661	88.371	1.00	0.00	O
ATOM	9145	N	PRO	X	772	61.433	68.675	87.441	1.00	0.00	N
ATOM	9146	CD	PRO	X	772	61.563	67.830	86.341	1.00	0.00	C
ATOM	9147	HD2	PRO	X	772	62.631	67.640	86.224	1.00	0.00	H
ATOM	9148	HD3	PRO	X	772	61.146	68.288	85.445	1.00	0.00	H
ATOM	9149	CG	PRO	X	772	60.882	66.532	86.659	1.00	0.00	C
ATOM	9150	HG2	PRO	X	772	61.479	65.759	86.174	1.00	0.00	H
ATOM	9151	HG3	PRO	X	772	59.889	66.637	86.221	1.00	0.00	H
ATOM	9152	CB	PRO	X	772	60.849	66.441	88.144	1.00	0.00	C
ATOM	9153	HB2	PRO	X	772	61.848	66.134	88.454	1.00	0.00	H
ATOM	9154	HB3	PRO	X	772	60.088	65.879	88.684	1.00	0.00	H
ATOM	9155	CA	PRO	X	772	60.762	67.895	88.503	1.00	0.00	C
ATOM	9156	HA	PRO	X	772	59.711	68.183	88.489	1.00	0.00	H
ATOM	9157	C	PRO	X	772	61.317	68.085	89.877	1.00	0.00	C
ATOM	9158	O	PRO	X	772	62.538	67.868	90.013	1.00	0.00	O
ATOM	9159	N	VAL	X	773	60.512	68.476	90.866	1.00	0.00	N
ATOM	9160	H	VAL	X	773	59.566	68.774	90.670	1.00	0.00	H
ATOM	9161	CA	VAL	X	773	61.040	68.706	92.239	1.00	0.00	C
ATOM	9162	HA	VAL	X	773	61.930	68.089	92.366	1.00	0.00	H
ATOM	9163	CB	VAL	X	773	61.578	70.171	92.523	1.00	0.00	C
ATOM	9164	HB	VAL	X	773	61.881	70.235	93.568	1.00	0.00	H
ATOM	9165	CG1	VAL	X	773	62.811	70.549	91.735	1.00	0.00	C
ATOM	9166	HG11	VAL	X	773	62.626	70.582	90.661	1.00	0.00	H
ATOM	9167	HG12	VAL	X	773	63.165	71.507	92.114	1.00	0.00	H
ATOM	9168	HG13	VAL	X	773	63.668	69.895	91.893	1.00	0.00	H
ATOM	9169	CG2	VAL	X	773	60.576	71.302	92.172	1.00	0.00	C
ATOM	9170	HG21	VAL	X	773	60.832	72.194	92.742	1.00	0.00	H
ATOM	9171	HG22	VAL	X	773	60.582	71.519	91.103	1.00	0.00	H
ATOM	9172	HG23	VAL	X	773	59.529	71.038	92.329	1.00	0.00	H
ATOM	9173	C	VAL	X	773	60.083	68.303	93.434	1.00	0.00	C
ATOM	9174	O	VAL	X	773	58.888	68.467	93.360	1.00	0.00	O
ATOM	9175	N	ALA	X	774	60.701	67.745	94.491	1.00	0.00	N
ATOM	9176	H	ALA	X	774	61.706	67.641	94.500	1.00	0.00	H
ATOM	9177	CA	ALA	X	774	59.952	67.534	95.758	1.00	0.00	C
ATOM	9178	HA	ALA	X	774	58.944	67.160	95.585	1.00	0.00	H
ATOM	9179	CB	ALA	X	774	60.678	66.460	96.577	1.00	0.00	C
ATOM	9180	HB1	ALA	X	774	61.598	66.912	96.946	1.00	0.00	H
ATOM	9181	HB2	ALA	X	774	60.054	66.129	97.406	1.00	0.00	H
ATOM	9182	HB3	ALA	X	774	60.811	65.560	95.976	1.00	0.00	H

ATOM	9183	C	ALA	X	774	59.824	68.937	96.422	1.00	0.00	C
ATOM	9184	O	ALA	X	774	60.730	69.858	96.332	1.00	0.00	O
ATOM	9185	N	LEU	X	775	58.734	69.029	97.221	1.00	0.00	N
ATOM	9186	H	LEU	X	775	58.113	68.234	97.269	1.00	0.00	H
ATOM	9187	CA	LEU	X	775	58.362	70.212	97.971	1.00	0.00	C
ATOM	9188	HA	LEU	X	775	59.223	70.813	98.265	1.00	0.00	H
ATOM	9189	CB	LEU	X	775	57.402	71.074	97.084	1.00	0.00	C
ATOM	9190	HB2	LEU	X	775	58.079	71.563	96.383	1.00	0.00	H
ATOM	9191	HB3	LEU	X	775	56.706	70.406	96.577	1.00	0.00	H
ATOM	9192	CG	LEU	X	775	56.568	72.207	97.849	1.00	0.00	C
ATOM	9193	HG	LEU	X	775	55.909	71.767	98.597	1.00	0.00	H
ATOM	9194	CD1	LEU	X	775	57.516	73.216	98.490	1.00	0.00	C
ATOM	9195	HD11	LEU	X	775	58.085	73.689	97.690	1.00	0.00	H
ATOM	9196	HD12	LEU	X	775	56.975	74.018	98.991	1.00	0.00	H
ATOM	9197	HD13	LEU	X	775	58.272	72.724	99.104	1.00	0.00	H
ATOM	9198	CD2	LEU	X	775	55.576	72.895	96.864	1.00	0.00	C
ATOM	9199	HD21	LEU	X	775	56.072	73.377	96.021	1.00	0.00	H
ATOM	9200	HD22	LEU	X	775	54.833	72.159	96.559	1.00	0.00	H
ATOM	9201	HD23	LEU	X	775	55.151	73.743	97.402	1.00	0.00	H
ATOM	9202	C	LEU	X	775	57.735	69.799	99.323	1.00	0.00	C
ATOM	9203	O	LEU	X	775	56.886	68.924	99.413	1.00	0.00	O
ATOM	9204	N	GLN	X	776	58.209	70.437	100.409	1.00	0.00	N
ATOM	9205	H	GLN	X	776	58.836	71.220	100.295	1.00	0.00	H
ATOM	9206	CA	GLN	X	776	57.873	70.080	101.778	1.00	0.00	C
ATOM	9207	HA	GLN	X	776	57.120	69.294	101.835	1.00	0.00	H
ATOM	9208	CB	GLN	X	776	59.198	69.603	102.371	1.00	0.00	C
ATOM	9209	HB2	GLN	X	776	59.855	69.228	101.588	1.00	0.00	H
ATOM	9210	HB3	GLN	X	776	59.767	70.460	102.735	1.00	0.00	H
ATOM	9211	CG	GLN	X	776	59.041	68.624	103.581	1.00	0.00	C
ATOM	9212	HG2	GLN	X	776	58.061	68.834	104.010	1.00	0.00	H
ATOM	9213	HG3	GLN	X	776	59.129	67.608	103.199	1.00	0.00	H
ATOM	9214	CD	GLN	X	776	60.081	68.691	104.635	1.00	0.00	C
ATOM	9215	OE1	GLN	X	776	61.238	69.082	104.406	1.00	0.00	O
ATOM	9216	NE2	GLN	X	776	59.771	68.341	105.908	1.00	0.00	N
ATOM	9217	HE21	GLN	X	776	60.537	68.297	106.567	1.00	0.00	H
ATOM	9218	HE22	GLN	X	776	58.795	68.163	106.095	1.00	0.00	H
ATOM	9219	C	GLN	X	776	57.489	71.420	102.457	1.00	0.00	C
ATOM	9220	O	GLN	X	776	58.297	72.277	102.659	1.00	0.00	O
ATOM	9221	N	LEU	X	777	56.199	71.455	102.751	1.00	0.00	N
ATOM	9222	H	LEU	X	777	55.661	70.640	102.497	1.00	0.00	H
ATOM	9223	CA	LEU	X	777	55.420	72.530	103.473	1.00	0.00	C
ATOM	9224	HA	LEU	X	777	56.106	73.376	103.520	1.00	0.00	H
ATOM	9225	CB	LEU	X	777	54.116	72.946	102.640	1.00	0.00	C
ATOM	9226	HB2	LEU	X	777	53.510	72.044	102.548	1.00	0.00	H
ATOM	9227	HB3	LEU	X	777	53.557	73.619	103.292	1.00	0.00	H
ATOM	9228	CG	LEU	X	777	54.371	73.543	101.266	1.00	0.00	C
ATOM	9229	HG	LEU	X	777	54.884	72.769	100.694	1.00	0.00	H
ATOM	9230	CD1	LEU	X	777	53.066	73.877	100.624	1.00	0.00	C
ATOM	9231	HD11	LEU	X	777	52.501	74.600	101.212	1.00	0.00	H
ATOM	9232	HD12	LEU	X	777	53.215	74.112	99.569	1.00	0.00	H
ATOM	9233	HD13	LEU	X	777	52.481	72.961	100.533	1.00	0.00	H
ATOM	9234	CD2	LEU	X	777	55.175	74.818	101.374	1.00	0.00	C
ATOM	9235	HD21	LEU	X	777	55.234	75.292	100.395	1.00	0.00	H
ATOM	9236	HD22	LEU	X	777	54.736	75.436	102.158	1.00	0.00	H
ATOM	9237	HD23	LEU	X	777	56.201	74.621	101.682	1.00	0.00	H
ATOM	9238	C	LEU	X	777	55.026	72.156	104.915	1.00	0.00	C
ATOM	9239	O	LEU	X	777	54.334	72.942	105.551	1.00	0.00	O
ATOM	9240	N	ASP	X	778	55.350	70.973	105.489	1.00	0.00	N
ATOM	9241	H	ASP	X	778	55.763	70.280	104.883	1.00	0.00	H
ATOM	9242	CA	ASP	X	778	55.129	70.619	106.919	1.00	0.00	C
ATOM	9243	HA	ASP	X	778	54.059	70.423	106.986	1.00	0.00	H
ATOM	9244	CB	ASP	X	778	55.989	69.385	107.277	1.00	0.00	C
ATOM	9245	HB2	ASP	X	778	57.006	69.739	107.438	1.00	0.00	H
ATOM	9246	HB3	ASP	X	778	55.633	68.944	108.208	1.00	0.00	H
ATOM	9247	CG	ASP	X	778	56.031	68.198	106.291	1.00	0.00	C
ATOM	9248	OD1	ASP	X	778	55.047	68.025	105.474	1.00	0.00	O
ATOM	9249	OD2	ASP	X	778	57.067	67.476	106.341	1.00	0.00	O
ATOM	9250	C	ASP	X	778	55.502	71.760	107.851	1.00	0.00	C
ATOM	9251	O	ASP	X	778	56.499	72.461	107.657	1.00	0.00	O
ATOM	9252	N	HID	X	779	54.666	71.924	108.850	1.00	0.00	N
ATOM	9253	H	HID	X	779	53.878	71.293	108.811	1.00	0.00	H
ATOM	9254	CA	HID	X	779	54.693	72.949	109.931	1.00	0.00	C
ATOM	9255	HA	HID	X	779	53.815	72.791	110.559	1.00	0.00	H
ATOM	9256	CB	HID	X	779	55.997	72.716	110.843	1.00	0.00	C
ATOM	9257	HB2	HID	X	779	56.830	73.002	110.202	1.00	0.00	H
ATOM	9258	HB3	HID	X	779	55.942	73.394	111.694	1.00	0.00	H
ATOM	9259	CG	HID	X	779	56.120	71.293	111.304	1.00	0.00	C
ATOM	9260	ND1	HID	X	779	55.347	70.685	112.214	1.00	0.00	N
ATOM	9261	HD1	HID	X	779	54.658	71.102	112.826	1.00	0.00	H
ATOM	9262	CE1	HID	X	779	55.658	69.409	112.350	1.00	0.00	C
ATOM	9263	HE1	HID	X	779	55.243	68.787	113.128	1.00	0.00	H
ATOM	9264	NE2	HID	X	779	56.640	69.123	111.511	1.00	0.00	N

ATOM	9265	CD2	HID	X	779	56.953	70.303	110.804	1.00	0.00	C
ATOM	9266	HD2	HID	X	779	57.664	70.370	109.993	1.00	0.00	H
ATOM	9267	C	HID	X	779	54.557	74.432	109.473	1.00	0.00	C
ATOM	9268	O	HID	X	779	54.761	75.424	110.164	1.00	0.00	O
ATOM	9269	N	ASN	X	780	54.126	74.691	108.207	1.00	0.00	N
ATOM	9270	H	ASN	X	780	53.982	73.896	107.599	1.00	0.00	H
ATOM	9271	CA	ASN	X	780	53.662	75.983	107.822	1.00	0.00	C
ATOM	9272	HA	ASN	X	780	53.940	76.866	108.399	1.00	0.00	H
ATOM	9273	CB	ASN	X	780	54.144	76.216	106.386	1.00	0.00	C
ATOM	9274	HB2	ASN	X	780	53.702	75.694	105.538	1.00	0.00	H
ATOM	9275	HB3	ASN	X	780	53.846	77.230	106.116	1.00	0.00	H
ATOM	9276	CG	ASN	X	780	55.668	76.138	106.331	1.00	0.00	C
ATOM	9277	OD1	ASN	X	780	56.483	76.979	106.753	1.00	0.00	O
ATOM	9278	ND2	ASN	X	780	56.120	75.084	105.691	1.00	0.00	N
ATOM	9279	HD21	ASN	X	780	57.058	75.180	105.333	1.00	0.00	H
ATOM	9280	HD22	ASN	X	780	55.608	74.218	105.606	1.00	0.00	H
ATOM	9281	C	ASN	X	780	52.208	76.130	108.093	1.00	0.00	C
ATOM	9282	O	ASN	X	780	51.578	75.228	108.623	1.00	0.00	O
ATOM	9283	N	SER	X	781	51.550	77.249	107.871	1.00	0.00	N
ATOM	9284	H	SER	X	781	52.062	78.110	107.746	1.00	0.00	H
ATOM	9285	CA	SER	X	781	50.103	77.391	107.734	1.00	0.00	C
ATOM	9286	HA	SER	X	781	49.593	76.665	108.367	1.00	0.00	H
ATOM	9287	CB	SER	X	781	49.720	78.756	108.341	1.00	0.00	C
ATOM	9288	HB2	SER	X	781	48.651	78.923	108.466	1.00	0.00	H
ATOM	9289	HB3	SER	X	781	50.101	78.798	109.361	1.00	0.00	H
ATOM	9290	OG	SER	X	781	50.413	79.756	107.656	1.00	0.00	O
ATOM	9291	HG	SER	X	781	50.196	80.590	108.078	1.00	0.00	H
ATOM	9292	C	SER	X	781	49.598	77.179	106.324	1.00	0.00	C
ATOM	9293	O	SER	X	781	48.650	76.350	106.129	1.00	0.00	O
ATOM	9294	N	VAL	X	782	50.250	77.648	105.293	1.00	0.00	N
ATOM	9295	H	VAL	X	782	50.988	78.321	105.445	1.00	0.00	H
ATOM	9296	CA	VAL	X	782	49.845	77.460	103.880	1.00	0.00	C
ATOM	9297	HA	VAL	X	782	50.601	77.928	103.251	1.00	0.00	H
ATOM	9298	CB	VAL	X	782	49.915	76.049	103.280	1.00	0.00	C
ATOM	9299	HB	VAL	X	782	49.166	75.363	103.676	1.00	0.00	H
ATOM	9300	CG1	VAL	X	782	49.843	76.127	101.753	1.00	0.00	C
ATOM	9301	HG11	VAL	X	782	50.119	75.159	101.333	1.00	0.00	H
ATOM	9302	HG12	VAL	X	782	48.843	76.485	101.508	1.00	0.00	H
ATOM	9303	HG13	VAL	X	782	50.560	76.863	101.390	1.00	0.00	H
ATOM	9304	CG2	VAL	X	782	51.248	75.395	103.773	1.00	0.00	C
ATOM	9305	HG21	VAL	X	782	51.449	74.520	103.155	1.00	0.00	H
ATOM	9306	HG22	VAL	X	782	52.027	76.127	103.560	1.00	0.00	H
ATOM	9307	HG23	VAL	X	782	51.167	75.240	104.849	1.00	0.00	H
ATOM	9308	C	VAL	X	782	48.560	78.208	103.633	1.00	0.00	C
ATOM	9309	O	VAL	X	782	48.521	79.195	102.977	1.00	0.00	O
ATOM	9310	N	GLY	X	783	47.453	77.724	104.182	1.00	0.00	N
ATOM	9311	H	GLY	X	783	47.473	76.857	104.702	1.00	0.00	H
ATOM	9312	CA	GLY	X	783	46.189	78.402	104.137	1.00	0.00	C
ATOM	9313	HA2	GLY	X	783	45.489	77.910	104.811	1.00	0.00	H
ATOM	9314	HA3	GLY	X	783	46.262	79.464	104.373	1.00	0.00	H
ATOM	9315	C	GLY	X	783	45.442	78.203	102.784	1.00	0.00	C
ATOM	9316	O	GLY	X	783	46.060	77.870	101.776	1.00	0.00	O
ATOM	9317	N	ASP	X	784	44.111	78.472	102.710	1.00	0.00	N
ATOM	9318	H	ASP	X	784	43.576	78.717	103.530	1.00	0.00	H
ATOM	9319	CA	ASP	X	784	43.389	78.200	101.485	1.00	0.00	C
ATOM	9320	HA	ASP	X	784	43.524	77.137	101.286	1.00	0.00	H
ATOM	9321	CB	ASP	X	784	41.847	78.277	101.607	1.00	0.00	C
ATOM	9322	HB2	ASP	X	784	41.654	79.295	101.944	1.00	0.00	H
ATOM	9323	HB3	ASP	X	784	41.393	78.199	100.619	1.00	0.00	H
ATOM	9324	CG	ASP	X	784	41.317	77.266	102.561	1.00	0.00	C
ATOM	9325	OD1	ASP	X	784	40.101	77.117	102.392	1.00	0.00	O
ATOM	9326	OD2	ASP	X	784	42.015	76.709	103.415	1.00	0.00	O
ATOM	9327	C	ASP	X	784	43.789	79.169	100.348	1.00	0.00	C
ATOM	9328	O	ASP	X	784	43.733	78.797	99.201	1.00	0.00	O
ATOM	9329	N	ILE	X	785	44.217	80.367	100.652	1.00	0.00	N
ATOM	9330	H	ILE	X	785	44.238	80.666	101.617	1.00	0.00	H
ATOM	9331	CA	ILE	X	785	44.753	81.277	99.685	1.00	0.00	C
ATOM	9332	HA	ILE	X	785	44.360	80.912	98.736	1.00	0.00	H
ATOM	9333	CB	ILE	X	785	44.267	82.715	99.978	1.00	0.00	C
ATOM	9334	HB	ILE	X	785	44.629	82.966	100.975	1.00	0.00	H
ATOM	9335	CG2	ILE	X	785	44.894	83.777	99.055	1.00	0.00	C
ATOM	9336	HG21	ILE	X	785	44.855	83.404	98.032	1.00	0.00	H
ATOM	9337	HG22	ILE	X	785	44.360	84.686	99.330	1.00	0.00	H
ATOM	9338	HG23	ILE	X	785	45.963	83.870	99.246	1.00	0.00	H
ATOM	9339	CG1	ILE	X	785	42.693	82.731	99.967	1.00	0.00	C
ATOM	9340	HG12	ILE	X	785	42.311	82.105	100.773	1.00	0.00	H
ATOM	9341	HG13	ILE	X	785	42.272	83.728	100.095	1.00	0.00	H
ATOM	9342	CD1	ILE	X	785	42.007	82.268	98.682	1.00	0.00	C
ATOM	9343	HD11	ILE	X	785	40.963	82.551	98.821	1.00	0.00	H
ATOM	9344	HD12	ILE	X	785	42.431	82.807	97.835	1.00	0.00	H
ATOM	9345	HD13	ILE	X	785	42.146	81.200	98.514	1.00	0.00	H
ATOM	9346	C	ILE	X	785	46.255	81.008	99.421	1.00	0.00	C

ATOM	9347	O	ILE	X	785	46.793	81.696	98.539	1.00	0.00	O
ATOM	9348	N	GLY	X	786	46.903	80.116	100.138	1.00	0.00	N
ATOM	9349	H	GLY	X	786	46.420	79.694	100.917	1.00	0.00	H
ATOM	9350	CA	GLY	X	786	48.190	79.480	99.785	1.00	0.00	C
ATOM	9351	HA2	GLY	X	786	49.038	80.164	99.823	1.00	0.00	H
ATOM	9352	HA3	GLY	X	786	48.374	78.794	100.612	1.00	0.00	H
ATOM	9353	C	GLY	X	786	48.106	78.656	98.526	1.00	0.00	C
ATOM	9354	O	GLY	X	786	48.878	78.895	97.606	1.00	0.00	O
ATOM	9355	N	VAL	X	787	47.118	77.735	98.522	1.00	0.00	N
ATOM	9356	H	VAL	X	787	46.565	77.688	99.365	1.00	0.00	H
ATOM	9357	CA	VAL	X	787	46.720	76.927	97.357	1.00	0.00	C
ATOM	9358	HA	VAL	X	787	47.522	76.319	96.938	1.00	0.00	H
ATOM	9359	CB	VAL	X	787	45.601	75.975	97.641	1.00	0.00	C
ATOM	9360	HB	VAL	X	787	44.731	76.548	97.959	1.00	0.00	H
ATOM	9361	CG1	VAL	X	787	45.160	75.061	96.522	1.00	0.00	C
ATOM	9362	HG11	VAL	X	787	44.399	75.605	95.962	1.00	0.00	H
ATOM	9363	HG12	VAL	X	787	46.015	74.820	95.891	1.00	0.00	H
ATOM	9364	HG13	VAL	X	787	44.597	74.172	96.806	1.00	0.00	H
ATOM	9365	CG2	VAL	X	787	45.977	75.131	98.927	1.00	0.00	C
ATOM	9366	HG21	VAL	X	787	45.462	74.177	99.043	1.00	0.00	H
ATOM	9367	HG22	VAL	X	787	46.973	74.700	98.836	1.00	0.00	H
ATOM	9368	HG23	VAL	X	787	45.969	75.735	99.835	1.00	0.00	H
ATOM	9369	C	VAL	X	787	46.242	77.814	96.219	1.00	0.00	C
ATOM	9370	O	VAL	X	787	46.682	77.681	95.086	1.00	0.00	O
ATOM	9371	N	GLU	X	788	45.491	78.933	96.472	1.00	0.00	N
ATOM	9372	H	GLU	X	788	45.194	79.122	97.418	1.00	0.00	H
ATOM	9373	CA	GLU	X	788	44.985	79.776	95.414	1.00	0.00	C
ATOM	9374	HA	GLU	X	788	44.576	79.117	94.648	1.00	0.00	H
ATOM	9375	CB	GLU	X	788	43.878	80.634	95.971	1.00	0.00	C
ATOM	9376	HB2	GLU	X	788	43.195	79.890	96.382	1.00	0.00	H
ATOM	9377	HB3	GLU	X	788	44.273	81.309	96.730	1.00	0.00	H
ATOM	9378	CG	GLU	X	788	43.087	81.601	95.097	1.00	0.00	C
ATOM	9379	HG2	GLU	X	788	42.405	82.151	95.746	1.00	0.00	H
ATOM	9380	HG3	GLU	X	788	43.813	82.322	94.721	1.00	0.00	H
ATOM	9381	CD	GLU	X	788	42.361	80.970	93.941	1.00	0.00	C
ATOM	9382	OE1	GLU	X	788	41.710	81.654	93.149	1.00	0.00	O
ATOM	9383	OE2	GLU	X	788	42.416	79.708	93.738	1.00	0.00	O
ATOM	9384	C	GLU	X	788	46.046	80.603	94.593	1.00	0.00	C
ATOM	9385	O	GLU	X	788	45.814	80.789	93.412	1.00	0.00	O
ATOM	9386	N	GLN	X	789	47.253	80.860	95.106	1.00	0.00	N
ATOM	9387	H	GLN	X	789	47.439	80.484	96.027	1.00	0.00	H
ATOM	9388	CA	GLN	X	789	48.332	81.601	94.479	1.00	0.00	C
ATOM	9389	HA	GLN	X	789	47.991	82.240	93.665	1.00	0.00	H
ATOM	9390	CB	GLN	X	789	48.891	82.547	95.558	1.00	0.00	C
ATOM	9391	HB2	GLN	X	789	48.984	82.000	96.496	1.00	0.00	H
ATOM	9392	HB3	GLN	X	789	49.878	82.880	95.237	1.00	0.00	H
ATOM	9393	CG	GLN	X	789	48.046	83.762	95.838	1.00	0.00	C
ATOM	9394	HG2	GLN	X	789	48.125	84.357	94.930	1.00	0.00	H
ATOM	9395	HG3	GLN	X	789	47.025	83.514	96.132	1.00	0.00	H
ATOM	9396	CD	GLN	X	789	48.542	84.587	97.020	1.00	0.00	C
ATOM	9397	OE1	GLN	X	789	49.287	85.554	96.963	1.00	0.00	O
ATOM	9398	NE2	GLN	X	789	48.353	84.080	98.167	1.00	0.00	N
ATOM	9399	HE21	GLN	X	789	48.712	84.585	98.965	1.00	0.00	H
ATOM	9400	HE22	GLN	X	789	47.798	83.244	98.277	1.00	0.00	H
ATOM	9401	C	GLN	X	789	49.414	80.700	93.900	1.00	0.00	C
ATOM	9402	O	GLN	X	789	49.814	80.867	92.761	1.00	0.00	O
ATOM	9403	N	LEU	X	790	49.648	79.553	94.547	1.00	0.00	N
ATOM	9404	H	LEU	X	790	49.374	79.515	95.517	1.00	0.00	H
ATOM	9405	CA	LEU	X	790	50.654	78.598	94.047	1.00	0.00	C
ATOM	9406	HA	LEU	X	790	51.426	79.076	93.444	1.00	0.00	H
ATOM	9407	CB	LEU	X	790	51.305	78.039	95.298	1.00	0.00	C
ATOM	9408	HB2	LEU	X	790	50.522	77.745	95.996	1.00	0.00	H
ATOM	9409	HB3	LEU	X	790	51.794	77.095	95.062	1.00	0.00	H
ATOM	9410	CG	LEU	X	790	52.356	79.040	95.867	1.00	0.00	C
ATOM	9411	HG	LEU	X	790	52.116	80.095	95.731	1.00	0.00	H
ATOM	9412	CD1	LEU	X	790	52.715	78.837	97.291	1.00	0.00	C
ATOM	9413	HD11	LEU	X	790	53.462	78.045	97.345	1.00	0.00	H
ATOM	9414	HD12	LEU	X	790	53.232	79.727	97.652	1.00	0.00	H
ATOM	9415	HD13	LEU	X	790	51.878	78.655	97.963	1.00	0.00	H
ATOM	9416	CD2	LEU	X	790	53.674	78.850	95.110	1.00	0.00	C
ATOM	9417	HD21	LEU	X	790	53.867	77.777	95.113	1.00	0.00	H
ATOM	9418	HD22	LEU	X	790	53.670	79.109	94.051	1.00	0.00	H
ATOM	9419	HD23	LEU	X	790	54.584	79.267	95.541	1.00	0.00	H
ATOM	9420	C	LEU	X	790	50.138	77.513	93.117	1.00	0.00	C
ATOM	9421	O	LEU	X	790	50.947	76.735	92.581	1.00	0.00	O
ATOM	9422	N	LEU	X	791	48.864	77.324	92.960	1.00	0.00	N
ATOM	9423	H	LEU	X	791	48.247	77.915	93.498	1.00	0.00	H
ATOM	9424	CA	LEU	X	791	48.196	76.162	92.351	1.00	0.00	C
ATOM	9425	HA	LEU	X	791	48.024	75.466	93.172	1.00	0.00	H
ATOM	9426	CB	LEU	X	791	46.753	76.558	91.965	1.00	0.00	C
ATOM	9427	HB2	LEU	X	791	46.364	77.020	92.873	1.00	0.00	H
ATOM	9428	HB3	LEU	X	791	46.793	77.366	91.236	1.00	0.00	H

ATOM	9429	CG	LEU	X	791	45.871	75.406	91.428	1.00	0.00	C
ATOM	9430	HG	LEU	X	791	46.357	74.998	90.543	1.00	0.00	H
ATOM	9431	CD1	LEU	X	791	45.806	74.263	92.410	1.00	0.00	C
ATOM	9432	HD11	LEU	X	791	45.083	73.609	91.924	1.00	0.00	H
ATOM	9433	HD12	LEU	X	791	46.825	73.889	92.505	1.00	0.00	H
ATOM	9434	HD13	LEU	X	791	45.505	74.679	93.373	1.00	0.00	H
ATOM	9435	CD2	LEU	X	791	44.340	75.846	91.115	1.00	0.00	C
ATOM	9436	HD21	LEU	X	791	43.996	76.173	92.097	1.00	0.00	H
ATOM	9437	HD22	LEU	X	791	44.408	76.717	90.462	1.00	0.00	H
ATOM	9438	HD23	LEU	X	791	43.663	75.093	90.712	1.00	0.00	H
ATOM	9439	C	LEU	X	791	48.939	75.481	91.164	1.00	0.00	C
ATOM	9440	O	LEU	X	791	49.188	74.293	91.320	1.00	0.00	O
ATOM	9441	N	PRO	X	792	49.320	76.046	90.063	1.00	0.00	N
ATOM	9442	CD	PRO	X	792	49.418	77.428	89.788	1.00	0.00	C
ATOM	9443	HD2	PRO	X	792	50.257	77.795	90.379	1.00	0.00	H
ATOM	9444	HD3	PRO	X	792	48.492	77.964	89.997	1.00	0.00	H
ATOM	9445	CG	PRO	X	792	49.734	77.580	88.256	1.00	0.00	C
ATOM	9446	HG2	PRO	X	792	50.643	78.155	88.080	1.00	0.00	H
ATOM	9447	HG3	PRO	X	792	48.981	78.163	87.726	1.00	0.00	H
ATOM	9448	CB	PRO	X	792	49.805	76.169	87.681	1.00	0.00	C
ATOM	9449	HB2	PRO	X	792	50.669	76.093	87.019	1.00	0.00	H
ATOM	9450	HB3	PRO	X	792	48.882	76.054	87.117	1.00	0.00	H
ATOM	9451	CA	PRO	X	792	49.772	75.229	88.900	1.00	0.00	C
ATOM	9452	HA	PRO	X	792	49.028	74.450	88.734	1.00	0.00	H
ATOM	9453	C	PRO	X	792	51.161	74.597	89.187	1.00	0.00	C
ATOM	9454	O	PRO	X	792	51.337	73.414	88.952	1.00	0.00	O
ATOM	9455	N	CYS	X	793	52.091	75.322	89.857	1.00	0.00	N
ATOM	9456	H	CYS	X	793	51.839	76.296	89.951	1.00	0.00	H
ATOM	9457	CA	CYS	X	793	53.416	74.837	90.170	1.00	0.00	C
ATOM	9458	HA	CYS	X	793	53.940	74.514	89.270	1.00	0.00	H
ATOM	9459	CB	CYS	X	793	54.239	75.935	90.804	1.00	0.00	C
ATOM	9460	HB2	CYS	X	793	55.318	75.981	90.657	1.00	0.00	H
ATOM	9461	HB3	CYS	X	793	53.987	76.808	90.202	1.00	0.00	H
ATOM	9462	SG	CYS	X	793	53.917	76.253	92.585	1.00	0.00	S
ATOM	9463	HG	CYS	X	793	52.599	76.084	92.449	1.00	0.00	H
ATOM	9464	C	CYS	X	793	53.338	73.639	91.159	1.00	0.00	C
ATOM	9465	O	CYS	X	793	54.158	72.738	91.102	1.00	0.00	O
ATOM	9466	N	LEU	X	794	52.300	73.515	92.023	1.00	0.00	N
ATOM	9467	H	LEU	X	794	51.610	74.252	91.996	1.00	0.00	H
ATOM	9468	CA	LEU	X	794	51.964	72.302	92.818	1.00	0.00	C
ATOM	9469	HA	LEU	X	794	52.874	72.012	93.344	1.00	0.00	H
ATOM	9470	CB	LEU	X	794	50.874	72.557	93.891	1.00	0.00	C
ATOM	9471	HB2	LEU	X	794	49.871	72.578	93.462	1.00	0.00	H
ATOM	9472	HB3	LEU	X	794	50.855	71.732	94.603	1.00	0.00	H
ATOM	9473	CG	LEU	X	794	50.988	73.898	94.709	1.00	0.00	C
ATOM	9474	HG	LEU	X	794	50.847	74.773	94.073	1.00	0.00	H
ATOM	9475	CD1	LEU	X	794	49.857	73.928	95.736	1.00	0.00	C
ATOM	9476	HD11	LEU	X	794	48.926	73.770	95.190	1.00	0.00	H
ATOM	9477	HD12	LEU	X	794	49.998	73.057	96.375	1.00	0.00	H
ATOM	9478	HD13	LEU	X	794	49.941	74.884	96.252	1.00	0.00	H
ATOM	9479	CD2	LEU	X	794	52.494	74.054	95.286	1.00	0.00	C
ATOM	9480	HD21	LEU	X	794	52.634	75.062	95.679	1.00	0.00	H
ATOM	9481	HD22	LEU	X	794	52.796	73.261	95.968	1.00	0.00	H
ATOM	9482	HD23	LEU	X	794	53.231	73.822	94.515	1.00	0.00	H
ATOM	9483	C	LEU	X	794	51.668	71.197	91.843	1.00	0.00	C
ATOM	9484	O	LEU	X	794	52.191	70.099	92.018	1.00	0.00	O
ATOM	9485	N	GLY	X	795	50.908	71.451	90.765	1.00	0.00	N
ATOM	9486	H	GLY	X	795	50.625	72.396	90.542	1.00	0.00	H
ATOM	9487	CA	GLY	X	795	50.750	70.558	89.633	1.00	0.00	C
ATOM	9488	HA2	GLY	X	795	50.360	69.618	90.024	1.00	0.00	H
ATOM	9489	HA3	GLY	X	795	50.216	71.020	88.802	1.00	0.00	H
ATOM	9490	C	GLY	X	795	52.047	70.065	88.916	1.00	0.00	C
ATOM	9491	O	GLY	X	795	51.932	69.163	88.162	1.00	0.00	O
ATOM	9492	N	ALA	X	796	53.244	70.526	89.201	1.00	0.00	N
ATOM	9493	H	ALA	X	796	53.327	71.327	89.811	1.00	0.00	H
ATOM	9494	CA	ALA	X	796	54.547	70.008	88.665	1.00	0.00	C
ATOM	9495	HA	ALA	X	796	54.356	69.162	88.004	1.00	0.00	H
ATOM	9496	CB	ALA	X	796	55.296	70.978	87.789	1.00	0.00	C
ATOM	9497	HB1	ALA	X	796	55.366	71.956	88.264	1.00	0.00	H
ATOM	9498	HB2	ALA	X	796	56.255	70.557	87.488	1.00	0.00	H
ATOM	9499	HB3	ALA	X	796	54.567	71.066	86.985	1.00	0.00	H
ATOM	9500	C	ALA	X	796	55.393	69.383	89.741	1.00	0.00	C
ATOM	9501	O	ALA	X	796	56.376	68.702	89.493	1.00	0.00	O
ATOM	9502	N	CYS	X	797	55.110	69.549	91.050	1.00	0.00	N
ATOM	9503	H	CYS	X	797	54.320	70.112	91.329	1.00	0.00	H
ATOM	9504	CA	CYS	X	797	55.902	68.908	92.200	1.00	0.00	C
ATOM	9505	HA	CYS	X	797	56.936	69.018	91.876	1.00	0.00	H
ATOM	9506	CB	CYS	X	797	55.833	69.757	93.468	1.00	0.00	C
ATOM	9507	HB2	CYS	X	797	54.801	69.750	93.816	1.00	0.00	H
ATOM	9508	HB3	CYS	X	797	56.369	69.286	94.293	1.00	0.00	H
ATOM	9509	SG	CYS	X	797	56.232	71.502	93.185	1.00	0.00	S
ATOM	9510	HG	CYS	X	797	55.075	71.838	92.609	1.00	0.00	H

ATOM	9511	C	CYS	X	797	55.673	67.437	92.390	1.00	0.00	C
ATOM	9512	O	CYS	X	797	54.540	66.982	92.700	1.00	0.00	O
ATOM	9513	N	LYS	X	798	56.693	66.659	91.984	1.00	0.00	N
ATOM	9514	H	LYS	X	798	57.529	67.134	91.670	1.00	0.00	H
ATOM	9515	CA	LYS	X	798	56.563	65.194	91.927	1.00	0.00	C
ATOM	9516	HA	LYS	X	798	55.719	64.923	91.292	1.00	0.00	H
ATOM	9517	CB	LYS	X	798	57.799	64.562	91.282	1.00	0.00	C
ATOM	9518	HB2	LYS	X	798	57.588	63.495	91.197	1.00	0.00	H
ATOM	9519	HB3	LYS	X	798	57.886	64.906	90.253	1.00	0.00	H
ATOM	9520	CG	LYS	X	798	59.150	64.869	92.010	1.00	0.00	C
ATOM	9521	HG2	LYS	X	798	59.491	65.890	91.844	1.00	0.00	H
ATOM	9522	HG3	LYS	X	798	59.056	64.741	93.088	1.00	0.00	H
ATOM	9523	CD	LYS	X	798	60.323	64.033	91.560	1.00	0.00	C
ATOM	9524	HD2	LYS	X	798	60.103	63.015	91.882	1.00	0.00	H
ATOM	9525	HD3	LYS	X	798	60.354	64.011	90.470	1.00	0.00	H
ATOM	9526	CE	LYS	X	798	61.616	64.449	92.154	1.00	0.00	C
ATOM	9527	HE2	LYS	X	798	61.669	65.530	92.027	1.00	0.00	H
ATOM	9528	HE3	LYS	X	798	61.728	64.132	93.190	1.00	0.00	H
ATOM	9529	NZ	LYS	X	798	62.731	63.928	91.407	1.00	0.00	N
ATOM	9530	HZ1	LYS	X	798	63.537	64.487	91.641	1.00	0.00	H
ATOM	9531	HZ2	LYS	X	798	62.939	62.979	91.681	1.00	0.00	H
ATOM	9532	HZ3	LYS	X	798	62.533	63.936	90.415	1.00	0.00	H
ATOM	9533	C	LYS	X	798	56.231	64.574	93.293	1.00	0.00	C
ATOM	9534	O	LYS	X	798	55.591	63.544	93.328	1.00	0.00	O
ATOM	9535	N	ALA	X	799	56.637	65.211	94.343	1.00	0.00	N
ATOM	9536	H	ALA	X	799	57.031	66.129	94.199	1.00	0.00	H
ATOM	9537	CA	ALA	X	799	56.375	64.825	95.700	1.00	0.00	C
ATOM	9538	HA	ALA	X	799	55.547	64.117	95.736	1.00	0.00	H
ATOM	9539	CB	ALA	X	799	57.507	63.957	96.231	1.00	0.00	C
ATOM	9540	HB1	ALA	X	799	57.480	63.106	95.549	1.00	0.00	H
ATOM	9541	HB2	ALA	X	799	58.425	64.545	96.261	1.00	0.00	H
ATOM	9542	HB3	ALA	X	799	57.373	63.556	97.235	1.00	0.00	H
ATOM	9543	C	ALA	X	799	56.007	66.006	96.654	1.00	0.00	C
ATOM	9544	O	ALA	X	799	56.734	66.963	96.575	1.00	0.00	O
ATOM	9545	N	LEU	X	800	55.004	65.850	97.505	1.00	0.00	N
ATOM	9546	H	LEU	X	800	54.504	64.989	97.339	1.00	0.00	H
ATOM	9547	CA	LEU	X	800	54.408	66.832	98.348	1.00	0.00	C
ATOM	9548	HA	LEU	X	800	55.099	67.657	98.523	1.00	0.00	H
ATOM	9549	CB	LEU	X	800	53.085	67.397	97.825	1.00	0.00	C
ATOM	9550	HB2	LEU	X	800	52.389	66.613	97.529	1.00	0.00	H
ATOM	9551	HB3	LEU	X	800	52.650	67.938	98.666	1.00	0.00	H
ATOM	9552	CG	LEU	X	800	53.245	68.370	96.633	1.00	0.00	C
ATOM	9553	HG	LEU	X	800	53.989	67.899	95.990	1.00	0.00	H
ATOM	9554	CD1	LEU	X	800	51.810	68.584	95.990	1.00	0.00	C
ATOM	9555	HD11	LEU	X	800	51.867	69.316	95.183	1.00	0.00	H
ATOM	9556	HD12	LEU	X	800	51.463	67.647	95.556	1.00	0.00	H
ATOM	9557	HD13	LEU	X	800	51.132	68.928	96.772	1.00	0.00	H
ATOM	9558	CD2	LEU	X	800	53.839	69.746	97.006	1.00	0.00	C
ATOM	9559	HD21	LEU	X	800	54.223	70.152	96.070	1.00	0.00	H
ATOM	9560	HD22	LEU	X	800	53.112	70.427	97.451	1.00	0.00	H
ATOM	9561	HD23	LEU	X	800	54.681	69.714	97.697	1.00	0.00	H
ATOM	9562	C	LEU	X	800	54.259	66.315	99.773	1.00	0.00	C
ATOM	9563	O	LEU	X	800	53.652	65.235	100.042	1.00	0.00	O
ATOM	9564	N	TYR	X	801	54.810	67.040	100.736	1.00	0.00	N
ATOM	9565	H	TYR	X	801	55.164	67.950	100.479	1.00	0.00	H
ATOM	9566	CA	TYR	X	801	54.531	66.790	102.192	1.00	0.00	C
ATOM	9567	HA	TYR	X	801	53.769	66.021	102.310	1.00	0.00	H
ATOM	9568	CB	TYR	X	801	55.814	66.280	102.882	1.00	0.00	C
ATOM	9569	HB2	TYR	X	801	56.470	67.098	103.179	1.00	0.00	H
ATOM	9570	HB3	TYR	X	801	55.348	65.873	103.779	1.00	0.00	H
ATOM	9571	CG	TYR	X	801	56.606	65.252	102.144	1.00	0.00	C
ATOM	9572	CD1	TYR	X	801	56.545	63.922	102.631	1.00	0.00	C
ATOM	9573	HD1	TYR	X	801	55.794	63.636	103.354	1.00	0.00	H
ATOM	9574	CE1	TYR	X	801	57.472	62.988	102.075	1.00	0.00	C
ATOM	9575	HE1	TYR	X	801	57.484	62.077	102.655	1.00	0.00	H
ATOM	9576	CZ	TYR	X	801	58.384	63.360	101.084	1.00	0.00	C
ATOM	9577	OH	TYR	X	801	59.317	62.447	100.723	1.00	0.00	O
ATOM	9578	HH	TYR	X	801	59.515	62.664	99.809	1.00	0.00	H
ATOM	9579	CE2	TYR	X	801	58.392	64.632	100.553	1.00	0.00	C
ATOM	9580	HE2	TYR	X	801	59.206	64.933	99.910	1.00	0.00	H
ATOM	9581	CD2	TYR	X	801	57.544	65.605	101.165	1.00	0.00	C
ATOM	9582	HD2	TYR	X	801	57.680	66.655	100.948	1.00	0.00	H
ATOM	9583	C	TYR	X	801	53.923	68.113	102.772	1.00	0.00	C
ATOM	9584	O	TYR	X	801	54.561	69.157	102.531	1.00	0.00	O
ATOM	9585	N	LEU	X	802	52.710	68.061	103.334	1.00	0.00	N
ATOM	9586	H	LEU	X	802	52.362	67.115	103.277	1.00	0.00	H
ATOM	9587	CA	LEU	X	802	51.826	69.243	103.613	1.00	0.00	C
ATOM	9588	HA	LEU	X	802	52.514	70.075	103.473	1.00	0.00	H
ATOM	9589	CB	LEU	X	802	50.644	69.353	102.536	1.00	0.00	C
ATOM	9590	HB2	LEU	X	802	49.920	68.607	102.861	1.00	0.00	H
ATOM	9591	HB3	LEU	X	802	50.136	70.308	102.681	1.00	0.00	H
ATOM	9592	CG	LEU	X	802	51.046	69.166	101.033	1.00	0.00	C

ATOM	9593	HG	LEU	X	802	51.635	68.274	100.822	1.00	0.00	H
ATOM	9594	CD1	LEU	X	802	49.812	69.120	100.124	1.00	0.00	C
ATOM	9595	HD11	LEU	X	802	49.194	70.018	100.126	1.00	0.00	H
ATOM	9596	HD12	LEU	X	802	50.072	68.826	99.107	1.00	0.00	H
ATOM	9597	HD13	LEU	X	802	49.220	68.274	100.472	1.00	0.00	H
ATOM	9598	CD2	LEU	X	802	51.943	70.300	100.544	1.00	0.00	C
ATOM	9599	HD21	LEU	X	802	51.601	71.197	101.061	1.00	0.00	H
ATOM	9600	HD22	LEU	X	802	52.977	70.087	100.815	1.00	0.00	H
ATOM	9601	HD23	LEU	X	802	51.940	70.346	99.455	1.00	0.00	H
ATOM	9602	C	LEU	X	802	51.382	69.101	105.044	1.00	0.00	C
ATOM	9603	O	LEU	X	802	50.212	69.322	105.364	1.00	0.00	O
ATOM	9604	N	ARG	X	803	52.232	68.588	105.976	1.00	0.00	N
ATOM	9605	H	ARG	X	803	53.201	68.471	105.713	1.00	0.00	H
ATOM	9606	CA	ARG	X	803	51.781	68.083	107.260	1.00	0.00	C
ATOM	9607	HA	ARG	X	803	50.773	67.700	107.099	1.00	0.00	H
ATOM	9608	CB	ARG	X	803	52.745	66.989	107.896	1.00	0.00	C
ATOM	9609	HB2	ARG	X	803	53.664	67.466	108.236	1.00	0.00	H
ATOM	9610	HB3	ARG	X	803	52.463	66.586	108.870	1.00	0.00	H
ATOM	9611	CG	ARG	X	803	52.925	65.840	106.936	1.00	0.00	C
ATOM	9612	HG2	ARG	X	803	52.076	65.177	106.772	1.00	0.00	H
ATOM	9613	HG3	ARG	X	803	53.244	66.174	105.949	1.00	0.00	H
ATOM	9614	CD	ARG	X	803	53.968	64.883	107.467	1.00	0.00	C
ATOM	9615	HD2	ARG	X	803	53.565	64.497	108.403	1.00	0.00	H
ATOM	9616	HD3	ARG	X	803	53.969	63.982	106.853	1.00	0.00	H
ATOM	9617	NE	ARG	X	803	55.354	65.475	107.641	1.00	0.00	N
ATOM	9618	HE	ARG	X	803	55.643	66.216	107.017	1.00	0.00	H
ATOM	9619	CZ	ARG	X	803	56.250	65.167	108.559	1.00	0.00	C
ATOM	9620	NH1	ARG	X	803	56.059	64.235	109.411	1.00	0.00	N
ATOM	9621	HH11	ARG	X	803	55.185	63.725	109.413	1.00	0.00	H
ATOM	9622	HH12	ARG	X	803	56.767	63.979	110.083	1.00	0.00	H
ATOM	9623	NH2	ARG	X	803	57.335	65.888	108.666	1.00	0.00	N
ATOM	9624	HH21	ARG	X	803	57.524	66.551	107.927	1.00	0.00	H
ATOM	9625	HH22	ARG	X	803	57.896	65.662	109.475	1.00	0.00	H
ATOM	9626	C	ARG	X	803	51.601	69.246	108.271	1.00	0.00	C
ATOM	9627	O	ARG	X	803	52.425	70.106	108.357	1.00	0.00	O
ATOM	9628	N	ASP	X	804	50.531	69.205	109.070	1.00	0.00	N
ATOM	9629	H	ASP	X	804	49.943	68.409	108.874	1.00	0.00	H
ATOM	9630	CA	ASP	X	804	50.097	70.158	110.121	1.00	0.00	C
ATOM	9631	HA	ASP	X	804	49.119	69.826	110.467	1.00	0.00	H
ATOM	9632	CB	ASP	X	804	50.997	70.001	111.298	1.00	0.00	C
ATOM	9633	HB2	ASP	X	804	51.240	68.953	111.476	1.00	0.00	H
ATOM	9634	HB3	ASP	X	804	51.987	70.369	111.033	1.00	0.00	H
ATOM	9635	CG	ASP	X	804	50.488	70.642	112.648	1.00	0.00	C
ATOM	9636	OD1	ASP	X	804	51.363	71.243	113.319	1.00	0.00	O
ATOM	9637	OD2	ASP	X	804	49.279	70.456	112.955	1.00	0.00	O
ATOM	9638	C	ASP	X	804	49.822	71.515	109.604	1.00	0.00	C
ATOM	9639	O	ASP	X	804	49.974	72.436	110.396	1.00	0.00	O
ATOM	9640	N	ASN	X	805	49.363	71.751	108.392	1.00	0.00	N
ATOM	9641	H	ASN	X	805	49.177	70.935	107.827	1.00	0.00	H
ATOM	9642	CA	ASN	X	805	48.963	73.003	107.866	1.00	0.00	C
ATOM	9643	HA	ASN	X	805	49.498	73.753	108.448	1.00	0.00	H
ATOM	9644	CB	ASN	X	805	49.281	73.016	106.338	1.00	0.00	C
ATOM	9645	HB2	ASN	X	805	48.631	72.328	105.796	1.00	0.00	H
ATOM	9646	HB3	ASN	X	805	48.951	73.977	105.944	1.00	0.00	H
ATOM	9647	CG	ASN	X	805	50.701	72.729	105.868	1.00	0.00	C
ATOM	9648	OD1	ASN	X	805	50.948	72.226	104.781	1.00	0.00	O
ATOM	9649	ND2	ASN	X	805	51.674	73.001	106.735	1.00	0.00	N
ATOM	9650	HD21	ASN	X	805	52.595	72.753	106.400	1.00	0.00	H
ATOM	9651	HD22	ASN	X	805	51.468	73.402	107.639	1.00	0.00	H
ATOM	9652	C	ASN	X	805	47.507	73.506	108.193	1.00	0.00	C
ATOM	9653	O	ASN	X	805	46.582	72.783	108.665	1.00	0.00	O
ATOM	9654	N	ASN	X	806	47.185	74.773	107.899	1.00	0.00	N
ATOM	9655	H	ASN	X	806	47.952	75.278	107.478	1.00	0.00	H
ATOM	9656	CA	ASN	X	806	45.828	75.442	108.097	1.00	0.00	C
ATOM	9657	HA	ASN	X	806	45.384	74.785	108.844	1.00	0.00	H
ATOM	9658	CB	ASN	X	806	46.014	76.867	108.594	1.00	0.00	C
ATOM	9659	HB2	ASN	X	806	46.659	77.473	107.959	1.00	0.00	H
ATOM	9660	HB3	ASN	X	806	45.049	77.366	108.690	1.00	0.00	H
ATOM	9661	CG	ASN	X	806	46.565	77.049	109.992	1.00	0.00	C
ATOM	9662	OD1	ASN	X	806	47.774	77.370	110.164	1.00	0.00	O
ATOM	9663	ND2	ASN	X	806	45.776	76.851	111.052	1.00	0.00	N
ATOM	9664	HD21	ASN	X	806	46.164	76.926	111.982	1.00	0.00	H
ATOM	9665	HD22	ASN	X	806	44.851	76.555	110.777	1.00	0.00	H
ATOM	9666	C	ASN	X	806	44.923	75.367	106.883	1.00	0.00	C
ATOM	9667	O	ASN	X	806	44.030	76.255	106.737	1.00	0.00	O
ATOM	9668	N	ILE	X	807	45.243	74.463	105.927	1.00	0.00	N
ATOM	9669	H	ILE	X	807	46.087	73.909	105.894	1.00	0.00	H
ATOM	9670	CA	ILE	X	807	44.449	74.355	104.725	1.00	0.00	C
ATOM	9671	HA	ILE	X	807	44.069	75.328	104.415	1.00	0.00	H
ATOM	9672	CB	ILE	X	807	45.280	73.737	103.509	1.00	0.00	C
ATOM	9673	HB	ILE	X	807	45.245	72.666	103.710	1.00	0.00	H
ATOM	9674	CG2	ILE	X	807	44.504	73.955	102.214	1.00	0.00	C

ATOM	9675	HG21	ILE	X	807	43.584	73.372	102.232	1.00	0.00	H
ATOM	9676	HG22	ILE	X	807	44.169	74.991	102.207	1.00	0.00	H
ATOM	9677	HG23	ILE	X	807	45.055	73.723	101.302	1.00	0.00	H
ATOM	9678	CG1	ILE	X	807	46.750	74.280	103.239	1.00	0.00	C
ATOM	9679	HG12	ILE	X	807	46.736	75.116	102.542	1.00	0.00	H
ATOM	9680	HG13	ILE	X	807	47.307	74.675	104.089	1.00	0.00	H
ATOM	9681	CD1	ILE	X	807	47.635	73.168	102.691	1.00	0.00	C
ATOM	9682	HD11	ILE	X	807	48.633	73.600	102.635	1.00	0.00	H
ATOM	9683	HD12	ILE	X	807	47.589	72.336	103.394	1.00	0.00	H
ATOM	9684	HD13	ILE	X	807	47.089	72.915	101.783	1.00	0.00	H
ATOM	9685	C	ILE	X	807	43.183	73.543	104.989	1.00	0.00	C
ATOM	9686	O	ILE	X	807	43.307	72.465	105.543	1.00	0.00	O
ATOM	9687	N	SER	X	808	41.972	73.972	104.540	1.00	0.00	N
ATOM	9688	H	SER	X	808	42.007	74.792	103.951	1.00	0.00	H
ATOM	9689	CA	SER	X	808	40.730	73.248	104.587	1.00	0.00	C
ATOM	9690	HA	SER	X	808	40.645	72.812	105.583	1.00	0.00	H
ATOM	9691	CB	SER	X	808	39.623	74.243	104.433	1.00	0.00	C
ATOM	9692	HB2	SER	X	808	38.709	73.856	104.885	1.00	0.00	H
ATOM	9693	HB3	SER	X	808	39.879	75.130	105.011	1.00	0.00	H
ATOM	9694	OG	SER	X	808	39.426	74.595	103.128	1.00	0.00	O
ATOM	9695	HG	SER	X	808	39.611	75.514	102.921	1.00	0.00	H
ATOM	9696	C	SER	X	808	40.457	72.187	103.479	1.00	0.00	C
ATOM	9697	O	SER	X	808	41.143	71.893	102.497	1.00	0.00	O
ATOM	9698	N	ASP	X	809	39.356	71.508	103.663	1.00	0.00	N
ATOM	9699	H	ASP	X	809	38.793	71.622	104.495	1.00	0.00	H
ATOM	9700	CA	ASP	X	809	38.865	70.508	102.747	1.00	0.00	C
ATOM	9701	HA	ASP	X	809	39.655	69.785	102.541	1.00	0.00	H
ATOM	9702	CB	ASP	X	809	37.652	69.662	103.356	1.00	0.00	C
ATOM	9703	HB2	ASP	X	809	37.421	68.882	102.630	1.00	0.00	H
ATOM	9704	HB3	ASP	X	809	38.049	69.143	104.228	1.00	0.00	H
ATOM	9705	CG	ASP	X	809	36.366	70.301	103.771	1.00	0.00	C
ATOM	9706	OD1	ASP	X	809	35.338	69.583	103.694	1.00	0.00	O
ATOM	9707	OD2	ASP	X	809	36.325	71.429	104.170	1.00	0.00	O
ATOM	9708	C	ASP	X	809	38.465	71.090	101.328	1.00	0.00	C
ATOM	9709	O	ASP	X	809	38.511	70.330	100.352	1.00	0.00	O
ATOM	9710	N	ARG	X	810	38.206	72.355	101.314	1.00	0.00	N
ATOM	9711	H	ARG	X	810	38.404	72.942	102.113	1.00	0.00	H
ATOM	9712	CA	ARG	X	810	38.046	73.059	100.056	1.00	0.00	C
ATOM	9713	HA	ARG	X	810	37.416	72.434	99.424	1.00	0.00	H
ATOM	9714	CB	ARG	X	810	37.364	74.419	100.203	1.00	0.00	C
ATOM	9715	HB2	ARG	X	810	37.869	74.901	101.039	1.00	0.00	H
ATOM	9716	HB3	ARG	X	810	37.486	75.160	99.412	1.00	0.00	H
ATOM	9717	CG	ARG	X	810	35.885	74.393	100.631	1.00	0.00	C
ATOM	9718	HG2	ARG	X	810	35.471	75.355	100.328	1.00	0.00	H
ATOM	9719	HG3	ARG	X	810	35.410	73.618	100.030	1.00	0.00	H
ATOM	9720	CD	ARG	X	810	35.565	74.088	102.054	1.00	0.00	C
ATOM	9721	HD2	ARG	X	810	34.512	73.823	101.963	1.00	0.00	H
ATOM	9722	HD3	ARG	X	810	36.135	73.234	102.418	1.00	0.00	H
ATOM	9723	NE	ARG	X	810	35.705	75.285	102.938	1.00	0.00	N
ATOM	9724	HE	ARG	X	810	35.395	76.150	102.517	1.00	0.00	H
ATOM	9725	CZ	ARG	X	810	35.868	75.284	104.258	1.00	0.00	C
ATOM	9726	NH1	ARG	X	810	35.967	74.225	105.005	1.00	0.00	N
ATOM	9727	HH11	ARG	X	810	35.959	73.332	104.534	1.00	0.00	H
ATOM	9728	HH12	ARG	X	810	36.005	74.290	106.013	1.00	0.00	H
ATOM	9729	NH2	ARG	X	810	36.045	76.384	104.875	1.00	0.00	N
ATOM	9730	HH21	ARG	X	810	36.422	77.148	104.333	1.00	0.00	H
ATOM	9731	HH22	ARG	X	810	36.211	76.336	105.870	1.00	0.00	H
ATOM	9732	C	ARG	X	810	39.297	73.241	99.284	1.00	0.00	C
ATOM	9733	O	ARG	X	810	39.450	72.797	98.136	1.00	0.00	O
ATOM	9734	N	GLY	X	811	40.350	73.769	99.935	1.00	0.00	N
ATOM	9735	H	GLY	X	811	40.203	74.150	100.859	1.00	0.00	H
ATOM	9736	CA	GLY	X	811	41.657	73.886	99.319	1.00	0.00	C
ATOM	9737	HA2	GLY	X	811	41.456	74.362	98.359	1.00	0.00	H
ATOM	9738	HA3	GLY	X	811	42.356	74.505	99.880	1.00	0.00	H
ATOM	9739	C	GLY	X	811	42.327	72.571	98.943	1.00	0.00	C
ATOM	9740	O	GLY	X	811	42.898	72.516	97.862	1.00	0.00	O
ATOM	9741	N	ILE	X	812	42.342	71.459	99.765	1.00	0.00	N
ATOM	9742	H	ILE	X	812	41.934	71.580	100.682	1.00	0.00	H
ATOM	9743	CA	ILE	X	812	42.846	70.168	99.333	1.00	0.00	C
ATOM	9744	HA	ILE	X	812	43.906	70.177	99.078	1.00	0.00	H
ATOM	9745	CB	ILE	X	812	42.742	69.151	100.556	1.00	0.00	C
ATOM	9746	HB	ILE	X	812	41.724	69.190	100.943	1.00	0.00	H
ATOM	9747	CG2	ILE	X	812	43.061	67.812	99.960	1.00	0.00	C
ATOM	9748	HG21	ILE	X	812	42.233	67.498	99.326	1.00	0.00	H
ATOM	9749	HG22	ILE	X	812	43.934	67.779	99.309	1.00	0.00	H
ATOM	9750	HG23	ILE	X	812	43.048	66.947	100.625	1.00	0.00	H
ATOM	9751	CG1	ILE	X	812	43.707	69.442	101.749	1.00	0.00	C
ATOM	9752	HG12	ILE	X	812	43.374	70.266	102.377	1.00	0.00	H
ATOM	9753	HG13	ILE	X	812	43.717	68.570	102.402	1.00	0.00	H
ATOM	9754	CD1	ILE	X	812	45.215	69.663	101.316	1.00	0.00	C
ATOM	9755	HD11	ILE	X	812	45.611	68.899	100.649	1.00	0.00	H
ATOM	9756	HD12	ILE	X	812	45.252	70.644	100.842	1.00	0.00	H

ATOM	9757	HD13	ILE	X	812	45.797	69.664	102.239	1.00	0.00	H
ATOM	9758	C	ILE	X	812	42.091	69.663	98.043	1.00	0.00	C
ATOM	9759	O	ILE	X	812	42.707	69.347	97.025	1.00	0.00	O
ATOM	9760	N	CYS	X	813	40.708	69.679	97.965	1.00	0.00	N
ATOM	9761	H	CYS	X	813	40.177	70.131	98.695	1.00	0.00	H
ATOM	9762	CA	CYS	X	813	39.989	69.290	96.750	1.00	0.00	C
ATOM	9763	HA	CYS	X	813	40.221	68.242	96.561	1.00	0.00	H
ATOM	9764	CB	CYS	X	813	38.563	69.498	97.009	1.00	0.00	C
ATOM	9765	HB2	CYS	X	813	38.258	69.159	98.000	1.00	0.00	H
ATOM	9766	HB3	CYS	X	813	38.289	70.550	97.073	1.00	0.00	H
ATOM	9767	SG	CYS	X	813	37.516	68.736	95.606	1.00	0.00	S
ATOM	9768	HG	CYS	X	813	37.681	69.602	94.602	1.00	0.00	H
ATOM	9769	C	CYS	X	813	40.539	70.150	95.542	1.00	0.00	C
ATOM	9770	O	CYS	X	813	40.725	69.544	94.485	1.00	0.00	O
ATOM	9771	N	LYS	X	814	40.848	71.434	95.679	1.00	0.00	N
ATOM	9772	H	LYS	X	814	40.602	71.831	96.575	1.00	0.00	H
ATOM	9773	CA	LYS	X	814	41.303	72.310	94.566	1.00	0.00	C
ATOM	9774	HA	LYS	X	814	40.605	72.089	93.760	1.00	0.00	H
ATOM	9775	CB	LYS	X	814	41.165	73.844	95.034	1.00	0.00	C
ATOM	9776	HB2	LYS	X	814	40.121	74.010	95.302	1.00	0.00	H
ATOM	9777	HB3	LYS	X	814	41.706	73.928	95.977	1.00	0.00	H
ATOM	9778	CG	LYS	X	814	41.583	74.885	93.939	1.00	0.00	C
ATOM	9779	HG2	LYS	X	814	42.467	74.563	93.391	1.00	0.00	H
ATOM	9780	HG3	LYS	X	814	40.780	74.979	93.207	1.00	0.00	H
ATOM	9781	CD	LYS	X	814	41.876	76.323	94.449	1.00	0.00	C
ATOM	9782	HD2	LYS	X	814	42.408	76.330	95.401	1.00	0.00	H
ATOM	9783	HD3	LYS	X	814	42.312	76.998	93.714	1.00	0.00	H
ATOM	9784	CE	LYS	X	814	40.541	76.936	94.714	1.00	0.00	C
ATOM	9785	HE2	LYS	X	814	40.125	77.144	93.728	1.00	0.00	H
ATOM	9786	HE3	LYS	X	814	39.862	76.249	95.218	1.00	0.00	H
ATOM	9787	NZ	LYS	X	814	40.690	78.267	95.392	1.00	0.00	N
ATOM	9788	HZ1	LYS	X	814	41.213	78.783	94.698	1.00	0.00	H
ATOM	9789	HZ2	LYS	X	814	39.774	78.674	95.502	1.00	0.00	H
ATOM	9790	HZ3	LYS	X	814	41.299	78.191	96.197	1.00	0.00	H
ATOM	9791	C	LYS	X	814	42.686	71.838	94.073	1.00	0.00	C
ATOM	9792	O	LYS	X	814	42.879	71.822	92.885	1.00	0.00	O
ATOM	9793	N	LEU	X	815	43.695	71.557	94.880	1.00	0.00	N
ATOM	9794	H	LEU	X	815	43.461	71.510	95.862	1.00	0.00	H
ATOM	9795	CA	LEU	X	815	45.052	71.020	94.587	1.00	0.00	C
ATOM	9796	HA	LEU	X	815	45.542	71.619	93.818	1.00	0.00	H
ATOM	9797	CB	LEU	X	815	45.910	71.184	95.843	1.00	0.00	C
ATOM	9798	HB2	LEU	X	815	46.321	72.194	95.847	1.00	0.00	H
ATOM	9799	HB3	LEU	X	815	45.145	71.200	96.618	1.00	0.00	H
ATOM	9800	CG	LEU	X	815	46.960	70.094	96.179	1.00	0.00	C
ATOM	9801	HG	LEU	X	815	46.560	69.080	96.155	1.00	0.00	H
ATOM	9802	CD1	LEU	X	815	48.212	70.203	95.365	1.00	0.00	C
ATOM	9803	HD11	LEU	X	815	48.557	71.238	95.357	1.00	0.00	H
ATOM	9804	HD12	LEU	X	815	49.027	69.590	95.750	1.00	0.00	H
ATOM	9805	HD13	LEU	X	815	47.951	69.806	94.384	1.00	0.00	H
ATOM	9806	CD2	LEU	X	815	47.359	70.484	97.581	1.00	0.00	C
ATOM	9807	HD21	LEU	X	815	48.072	69.755	97.965	1.00	0.00	H
ATOM	9808	HD22	LEU	X	815	47.796	71.483	97.615	1.00	0.00	H
ATOM	9809	HD23	LEU	X	815	46.547	70.463	98.308	1.00	0.00	H
ATOM	9810	C	LEU	X	815	44.975	69.582	94.096	1.00	0.00	C
ATOM	9811	O	LEU	X	815	45.808	69.258	93.160	1.00	0.00	O
ATOM	9812	N	ILE	X	816	44.066	68.735	94.586	1.00	0.00	N
ATOM	9813	H	ILE	X	816	43.499	69.009	95.375	1.00	0.00	H
ATOM	9814	CA	ILE	X	816	43.820	67.346	94.131	1.00	0.00	C
ATOM	9815	HA	ILE	X	816	44.812	66.895	94.087	1.00	0.00	H
ATOM	9816	CB	ILE	X	816	43.005	66.638	95.228	1.00	0.00	C
ATOM	9817	HB	ILE	X	816	42.179	67.330	95.391	1.00	0.00	H
ATOM	9818	CG2	ILE	X	816	42.477	65.202	94.822	1.00	0.00	C
ATOM	9819	HG21	ILE	X	816	43.297	64.578	94.470	1.00	0.00	H
ATOM	9820	HG22	ILE	X	816	42.070	64.594	95.629	1.00	0.00	H
ATOM	9821	HG23	ILE	X	816	41.747	65.277	94.017	1.00	0.00	H
ATOM	9822	CG1	ILE	X	816	43.902	66.435	96.537	1.00	0.00	C
ATOM	9823	HG12	ILE	X	816	44.348	67.428	96.570	1.00	0.00	H
ATOM	9824	HG13	ILE	X	816	43.223	66.125	97.332	1.00	0.00	H
ATOM	9825	CD1	ILE	X	816	44.989	65.348	96.435	1.00	0.00	C
ATOM	9826	HD11	ILE	X	816	45.754	65.439	97.207	1.00	0.00	H
ATOM	9827	HD12	ILE	X	816	44.575	64.340	96.460	1.00	0.00	H
ATOM	9828	HD13	ILE	X	816	45.619	65.550	95.568	1.00	0.00	H
ATOM	9829	C	ILE	X	816	43.186	67.213	92.779	1.00	0.00	C
ATOM	9830	O	ILE	X	816	43.703	66.491	91.965	1.00	0.00	O
ATOM	9831	N	GLU	X	817	42.221	68.073	92.477	1.00	0.00	N
ATOM	9832	H	GLU	X	817	42.012	68.796	93.151	1.00	0.00	H
ATOM	9833	CA	GLU	X	817	41.478	68.090	91.288	1.00	0.00	C
ATOM	9834	HA	GLU	X	817	41.145	67.102	90.967	1.00	0.00	H
ATOM	9835	CB	GLU	X	817	40.268	68.969	91.521	1.00	0.00	C
ATOM	9836	HB2	GLU	X	817	39.636	68.470	92.255	1.00	0.00	H
ATOM	9837	HB3	GLU	X	817	40.636	69.924	91.893	1.00	0.00	H
ATOM	9838	CG	GLU	X	817	39.312	69.352	90.318	1.00	0.00	C

ATOM	9839	HG2	GLU	X	817	39.536	68.820	89.395	1.00	0.00	H
ATOM	9840	HG3	GLU	X	817	38.339	69.048	90.704	1.00	0.00	H
ATOM	9841	CD	GLU	X	817	39.405	70.873	89.986	1.00	0.00	C
ATOM	9842	OE1	GLU	X	817	38.395	71.632	90.027	1.00	0.00	O
ATOM	9843	OE2	GLU	X	817	40.518	71.230	89.490	1.00	0.00	O
ATOM	9844	C	GLU	X	817	42.377	68.526	90.159	1.00	0.00	C
ATOM	9845	O	GLU	X	817	42.345	68.023	89.063	1.00	0.00	O
ATOM	9846	N	HID	X	818	43.293	69.461	90.465	1.00	0.00	N
ATOM	9847	H	HID	X	818	43.389	69.904	91.367	1.00	0.00	H
ATOM	9848	CA	HID	X	818	44.302	70.024	89.528	1.00	0.00	C
ATOM	9849	HA	HID	X	818	43.787	70.193	88.582	1.00	0.00	H
ATOM	9850	CB	HID	X	818	44.962	71.223	90.095	1.00	0.00	C
ATOM	9851	HB2	HID	X	818	44.267	72.027	90.335	1.00	0.00	H
ATOM	9852	HB3	HID	X	818	45.466	70.968	91.027	1.00	0.00	H
ATOM	9853	CG	HID	X	818	45.959	71.747	89.135	1.00	0.00	C
ATOM	9854	ND1	HID	X	818	45.671	72.497	88.040	1.00	0.00	N
ATOM	9855	HD1	HID	X	818	44.752	72.746	87.702	1.00	0.00	H
ATOM	9856	CE1	HID	X	818	46.789	72.737	87.424	1.00	0.00	C
ATOM	9857	HE1	HID	X	818	46.917	73.220	86.466	1.00	0.00	H
ATOM	9858	NE2	HID	X	818	47.837	72.381	88.143	1.00	0.00	N
ATOM	9859	CD2	HID	X	818	47.307	71.641	89.197	1.00	0.00	C
ATOM	9860	HD2	HID	X	818	47.961	71.203	89.939	1.00	0.00	H
ATOM	9861	C	HID	X	818	45.317	68.921	89.258	1.00	0.00	C
ATOM	9862	O	HID	X	818	45.592	68.634	88.045	1.00	0.00	O
ATOM	9863	N	ALA	X	819	45.862	68.285	90.322	1.00	0.00	N
ATOM	9864	H	ALA	X	819	45.573	68.535	91.255	1.00	0.00	H
ATOM	9865	CA	ALA	X	819	46.764	67.071	90.123	1.00	0.00	C
ATOM	9866	HA	ALA	X	819	47.554	67.364	89.431	1.00	0.00	H
ATOM	9867	CB	ALA	X	819	47.477	66.778	91.401	1.00	0.00	C
ATOM	9868	HB1	ALA	X	819	46.752	66.700	92.213	1.00	0.00	H
ATOM	9869	HB2	ALA	X	819	48.004	65.824	91.357	1.00	0.00	H
ATOM	9870	HB3	ALA	X	819	48.244	67.499	91.682	1.00	0.00	H
ATOM	9871	C	ALA	X	819	46.075	65.821	89.545	1.00	0.00	C
ATOM	9872	O	ALA	X	819	46.759	65.030	88.883	1.00	0.00	O
ATOM	9873	N	LEU	X	820	44.748	65.644	89.593	1.00	0.00	N
ATOM	9874	H	LEU	X	820	44.266	66.251	90.241	1.00	0.00	H
ATOM	9875	CA	LEU	X	820	44.029	64.640	88.814	1.00	0.00	C
ATOM	9876	HA	LEU	X	820	44.479	63.648	88.870	1.00	0.00	H
ATOM	9877	CB	LEU	X	820	42.516	64.617	89.300	1.00	0.00	C
ATOM	9878	HB2	LEU	X	820	42.446	64.566	90.386	1.00	0.00	H
ATOM	9879	HB3	LEU	X	820	41.989	65.540	89.058	1.00	0.00	H
ATOM	9880	CG	LEU	X	820	41.733	63.486	88.487	1.00	0.00	C
ATOM	9881	HG	LEU	X	820	42.297	62.677	88.023	1.00	0.00	H
ATOM	9882	CD1	LEU	X	820	40.735	62.828	89.375	1.00	0.00	C
ATOM	9883	HD11	LEU	X	820	41.089	62.582	90.377	1.00	0.00	H
ATOM	9884	HD12	LEU	X	820	39.901	63.517	89.516	1.00	0.00	H
ATOM	9885	HD13	LEU	X	820	40.448	61.854	88.978	1.00	0.00	H
ATOM	9886	CD2	LEU	X	820	40.897	64.089	87.300	1.00	0.00	C
ATOM	9887	HD21	LEU	X	820	40.323	64.932	87.682	1.00	0.00	H
ATOM	9888	HD22	LEU	X	820	41.649	64.534	86.648	1.00	0.00	H
ATOM	9889	HD23	LEU	X	820	40.285	63.381	86.741	1.00	0.00	H
ATOM	9890	C	LEU	X	820	44.083	64.901	87.295	1.00	0.00	C
ATOM	9891	O	LEU	X	820	44.357	64.064	86.461	1.00	0.00	O
ATOM	9892	N	HID	X	821	43.961	66.217	86.912	1.00	0.00	N
ATOM	9893	H	HID	X	821	43.864	66.909	87.641	1.00	0.00	H
ATOM	9894	CA	HID	X	821	44.136	66.666	85.519	1.00	0.00	C
ATOM	9895	HA	HID	X	821	43.691	65.954	84.822	1.00	0.00	H
ATOM	9896	CB	HID	X	821	43.299	67.976	85.485	1.00	0.00	C
ATOM	9897	HB2	HID	X	821	43.505	68.471	86.434	1.00	0.00	H
ATOM	9898	HB3	HID	X	821	43.593	68.608	84.646	1.00	0.00	H
ATOM	9899	CG	HID	X	821	41.745	67.610	85.414	1.00	0.00	C
ATOM	9900	ND1	HID	X	821	40.962	67.493	86.477	1.00	0.00	N
ATOM	9901	HD1	HID	X	821	41.213	67.469	87.455	1.00	0.00	H
ATOM	9902	CE1	HID	X	821	39.740	67.290	86.034	1.00	0.00	C
ATOM	9903	HE1	HID	X	821	38.898	67.200	86.704	1.00	0.00	H
ATOM	9904	NE2	HID	X	821	39.684	67.333	84.710	1.00	0.00	N
ATOM	9905	CD2	HID	X	821	41.018	67.599	84.242	1.00	0.00	C
ATOM	9906	HD2	HID	X	821	41.390	67.719	83.235	1.00	0.00	H
ATOM	9907	C	HID	X	821	45.563	66.975	85.044	1.00	0.00	C
ATOM	9908	O	HID	X	821	45.868	67.592	83.996	1.00	0.00	O
ATOM	9909	N	CYS	X	822	46.610	66.498	85.796	1.00	0.00	N
ATOM	9910	H	CYS	X	822	46.368	65.999	86.641	1.00	0.00	H
ATOM	9911	CA	CYS	X	822	48.027	66.491	85.460	1.00	0.00	C
ATOM	9912	HA	CYS	X	822	48.142	66.805	84.423	1.00	0.00	H
ATOM	9913	CB	CYS	X	822	48.782	67.416	86.441	1.00	0.00	C
ATOM	9914	HB2	CYS	X	822	48.746	67.065	87.472	1.00	0.00	H
ATOM	9915	HB3	CYS	X	822	49.800	67.366	86.054	1.00	0.00	H
ATOM	9916	SG	CYS	X	822	48.192	69.103	86.418	1.00	0.00	S
ATOM	9917	HG	CYS	X	822	47.053	68.747	87.017	1.00	0.00	H
ATOM	9918	C	CYS	X	822	48.522	65.032	85.441	1.00	0.00	C
ATOM	9919	O	CYS	X	822	47.786	64.086	85.701	1.00	0.00	O
ATOM	9920	N	GLU	X	823	49.792	64.783	85.152	1.00	0.00	N

ATOM	9921	H	GLU	X	823	50.283	65.483	84.612	1.00	0.00	H
ATOM	9922	CA	GLU	X	823	50.351	63.387	85.244	1.00	0.00	C
ATOM	9923	HA	GLU	X	823	49.616	62.780	85.771	1.00	0.00	H
ATOM	9924	CB	GLU	X	823	50.448	62.831	83.798	1.00	0.00	C
ATOM	9925	HB2	GLU	X	823	49.606	63.182	83.202	1.00	0.00	H
ATOM	9926	HB3	GLU	X	823	51.308	63.367	83.395	1.00	0.00	H
ATOM	9927	CG	GLU	X	823	50.491	61.320	83.430	1.00	0.00	C
ATOM	9928	HG2	GLU	X	823	50.510	61.190	82.347	1.00	0.00	H
ATOM	9929	HG3	GLU	X	823	51.405	60.875	83.821	1.00	0.00	H
ATOM	9930	CD	GLU	X	823	49.302	60.682	84.031	1.00	0.00	C
ATOM	9931	OE1	GLU	X	823	48.258	60.495	83.370	1.00	0.00	O
ATOM	9932	OE2	GLU	X	823	49.259	60.340	85.199	1.00	0.00	O
ATOM	9933	C	GLU	X	823	51.647	63.158	86.028	1.00	0.00	C
ATOM	9934	O	GLU	X	823	52.213	62.025	86.027	1.00	0.00	O
ATOM	9935	N	GLN	X	824	52.119	64.219	86.670	1.00	0.00	N
ATOM	9936	H	GLN	X	824	51.679	65.120	86.553	1.00	0.00	H
ATOM	9937	CA	GLN	X	824	53.414	64.282	87.212	1.00	0.00	C
ATOM	9938	HA	GLN	X	824	54.083	63.575	86.720	1.00	0.00	H
ATOM	9939	CB	GLN	X	824	54.032	65.653	86.920	1.00	0.00	C
ATOM	9940	HB2	GLN	X	824	53.413	66.396	87.421	1.00	0.00	H
ATOM	9941	HB3	GLN	X	824	54.965	65.605	87.482	1.00	0.00	H
ATOM	9942	CG	GLN	X	824	54.331	65.933	85.463	1.00	0.00	C
ATOM	9943	HG2	GLN	X	824	55.098	66.701	85.354	1.00	0.00	H
ATOM	9944	HG3	GLN	X	824	54.714	65.017	85.014	1.00	0.00	H
ATOM	9945	CD	GLN	X	824	53.089	66.201	84.579	1.00	0.00	C
ATOM	9946	OE1	GLN	X	824	52.111	66.849	85.045	1.00	0.00	O
ATOM	9947	NE2	GLN	X	824	53.103	65.983	83.285	1.00	0.00	N
ATOM	9948	HE21	GLN	X	824	52.261	66.061	82.733	1.00	0.00	H
ATOM	9949	HE22	GLN	X	824	53.957	65.595	82.913	1.00	0.00	H
ATOM	9950	C	GLN	X	824	53.482	63.883	88.680	1.00	0.00	C
ATOM	9951	O	GLN	X	824	54.596	63.619	89.255	1.00	0.00	O
ATOM	9952	N	LEU	X	825	52.451	63.951	89.486	1.00	0.00	N
ATOM	9953	H	LEU	X	825	51.586	64.326	89.123	1.00	0.00	H
ATOM	9954	CA	LEU	X	825	52.567	63.609	90.923	1.00	0.00	C
ATOM	9955	HA	LEU	X	825	53.346	64.201	91.404	1.00	0.00	H
ATOM	9956	CB	LEU	X	825	51.280	64.065	91.654	1.00	0.00	C
ATOM	9957	HB2	LEU	X	825	51.046	65.083	91.345	1.00	0.00	H
ATOM	9958	HB3	LEU	X	825	50.497	63.434	91.232	1.00	0.00	H
ATOM	9959	CG	LEU	X	825	51.280	63.982	93.210	1.00	0.00	C
ATOM	9960	HG	LEU	X	825	51.640	63.021	93.577	1.00	0.00	H
ATOM	9961	CD1	LEU	X	825	52.122	65.098	93.723	1.00	0.00	C
ATOM	9962	HD11	LEU	X	825	53.164	64.971	93.428	1.00	0.00	H
ATOM	9963	HD12	LEU	X	825	51.826	66.080	93.357	1.00	0.00	H
ATOM	9964	HD13	LEU	X	825	52.155	65.063	94.812	1.00	0.00	H
ATOM	9965	CD2	LEU	X	825	49.881	64.259	93.724	1.00	0.00	C
ATOM	9966	HD21	LEU	X	825	49.485	65.123	93.192	1.00	0.00	H
ATOM	9967	HD22	LEU	X	825	49.230	63.497	93.295	1.00	0.00	H
ATOM	9968	HD23	LEU	X	825	49.813	64.398	94.802	1.00	0.00	H
ATOM	9969	C	LEU	X	825	52.875	62.157	91.222	1.00	0.00	C
ATOM	9970	O	LEU	X	825	52.281	61.272	90.613	1.00	0.00	O
ATOM	9971	N	GLN	X	826	53.585	61.860	92.354	1.00	0.00	N
ATOM	9972	H	GLN	X	826	53.997	62.638	92.848	1.00	0.00	H
ATOM	9973	CA	GLN	X	826	54.090	60.576	92.775	1.00	0.00	C
ATOM	9974	HA	GLN	X	826	53.519	59.816	92.243	1.00	0.00	H
ATOM	9975	CB	GLN	X	826	55.584	60.399	92.509	1.00	0.00	C
ATOM	9976	HB2	GLN	X	826	56.165	61.117	93.089	1.00	0.00	H
ATOM	9977	HB3	GLN	X	826	55.800	59.425	92.947	1.00	0.00	H
ATOM	9978	CG	GLN	X	826	56.045	60.284	91.049	1.00	0.00	C
ATOM	9979	HG2	GLN	X	826	55.483	59.506	90.532	1.00	0.00	H
ATOM	9980	HG3	GLN	X	826	55.974	61.237	90.525	1.00	0.00	H
ATOM	9981	CD	GLN	X	826	57.476	59.774	90.862	1.00	0.00	C
ATOM	9982	OE1	GLN	X	826	58.444	60.419	91.274	1.00	0.00	O
ATOM	9983	NE2	GLN	X	826	57.685	58.579	90.417	1.00	0.00	N
ATOM	9984	HE21	GLN	X	826	58.580	58.115	90.496	1.00	0.00	H
ATOM	9985	HE22	GLN	X	826	56.954	58.011	90.011	1.00	0.00	H
ATOM	9986	C	GLN	X	826	53.835	60.226	94.232	1.00	0.00	C
ATOM	9987	O	GLN	X	826	53.448	59.093	94.538	1.00	0.00	O
ATOM	9988	N	LYS	X	827	54.044	61.216	95.118	1.00	0.00	N
ATOM	9989	H	LYS	X	827	54.321	62.152	94.856	1.00	0.00	H
ATOM	9990	CA	LYS	X	827	53.879	61.015	96.563	1.00	0.00	C
ATOM	9991	HA	LYS	X	827	53.265	60.156	96.833	1.00	0.00	H
ATOM	9992	CB	LYS	X	827	55.227	60.885	97.278	1.00	0.00	C
ATOM	9993	HB2	LYS	X	827	55.721	61.855	97.348	1.00	0.00	H
ATOM	9994	HB3	LYS	X	827	55.117	60.704	98.347	1.00	0.00	H
ATOM	9995	CG	LYS	X	827	56.190	59.819	96.700	1.00	0.00	C
ATOM	9996	HG2	LYS	X	827	55.579	58.927	96.566	1.00	0.00	H
ATOM	9997	HG3	LYS	X	827	56.596	60.102	95.730	1.00	0.00	H
ATOM	9998	CD	LYS	X	827	57.392	59.499	97.649	1.00	0.00	C
ATOM	9999	HD2	LYS	X	827	57.934	60.405	97.920	1.00	0.00	H
ATOM	10000	HD3	LYS	X	827	56.967	58.878	98.438	1.00	0.00	H
ATOM	10001	CE	LYS	X	827	58.377	58.596	96.851	1.00	0.00	C
ATOM	10002	HE2	LYS	X	827	57.851	57.680	96.584	1.00	0.00	H

ATOM	10003	HE3	LYS	X	827	58.719	59.125	95.961	1.00	0.00	H
ATOM	10004	NZ	LYS	X	827	59.503	58.265	97.766	1.00	0.00	N
ATOM	10005	HZ1	LYS	X	827	59.996	59.101	98.044	1.00	0.00	H
ATOM	10006	HZ2	LYS	X	827	59.200	57.714	98.558	1.00	0.00	H
ATOM	10007	HZ3	LYS	X	827	60.248	57.745	97.327	1.00	0.00	H
ATOM	10008	C	LYS	X	827	53.120	62.185	97.077	1.00	0.00	C
ATOM	10009	O	LYS	X	827	53.408	63.315	96.809	1.00	0.00	O
ATOM	10010	N	LEU	X	828	52.186	61.881	97.957	1.00	0.00	N
ATOM	10011	H	LEU	X	828	51.999	60.938	98.267	1.00	0.00	H
ATOM	10012	CA	LEU	X	828	51.474	62.889	98.684	1.00	0.00	C
ATOM	10013	HA	LEU	X	828	51.843	63.904	98.544	1.00	0.00	H
ATOM	10014	CB	LEU	X	828	50.018	63.026	98.165	1.00	0.00	C
ATOM	10015	HB2	LEU	X	828	49.922	63.274	97.109	1.00	0.00	H
ATOM	10016	HB3	LEU	X	828	49.613	62.034	98.364	1.00	0.00	H
ATOM	10017	CG	LEU	X	828	49.070	64.079	98.821	1.00	0.00	C
ATOM	10018	HG	LEU	X	828	49.001	63.835	99.881	1.00	0.00	H
ATOM	10019	CD1	LEU	X	828	49.482	65.558	98.558	1.00	0.00	C
ATOM	10020	HD11	LEU	X	828	48.790	66.183	99.120	1.00	0.00	H
ATOM	10021	HD12	LEU	X	828	50.465	65.615	99.027	1.00	0.00	H
ATOM	10022	HD13	LEU	X	828	49.540	65.748	97.487	1.00	0.00	H
ATOM	10023	CD2	LEU	X	828	47.640	64.022	98.262	1.00	0.00	C
ATOM	10024	HD21	LEU	X	828	46.971	64.651	98.849	1.00	0.00	H
ATOM	10025	HD22	LEU	X	828	47.672	64.349	97.223	1.00	0.00	H
ATOM	10026	HD23	LEU	X	828	47.173	63.038	98.269	1.00	0.00	H
ATOM	10027	C	LEU	X	828	51.498	62.565	100.170	1.00	0.00	C
ATOM	10028	O	LEU	X	828	51.511	61.391	100.619	1.00	0.00	O
ATOM	10029	N	ALA	X	829	51.456	63.503	101.073	1.00	0.00	N
ATOM	10030	H	ALA	X	829	51.513	64.451	100.729	1.00	0.00	H
ATOM	10031	CA	ALA	X	829	51.493	63.221	102.530	1.00	0.00	C
ATOM	10032	HA	ALA	X	829	51.011	62.279	102.788	1.00	0.00	H
ATOM	10033	CB	ALA	X	829	52.931	63.085	102.962	1.00	0.00	C
ATOM	10034	HB1	ALA	X	829	52.893	63.049	104.051	1.00	0.00	H
ATOM	10035	HB2	ALA	X	829	53.396	62.231	102.472	1.00	0.00	H
ATOM	10036	HB3	ALA	X	829	53.394	64.010	102.620	1.00	0.00	H
ATOM	10037	C	ALA	X	829	50.778	64.358	103.392	1.00	0.00	C
ATOM	10038	O	ALA	X	829	50.878	65.547	103.197	1.00	0.00	O
ATOM	10039	N	LEU	X	830	50.054	63.879	104.359	1.00	0.00	N
ATOM	10040	H	LEU	X	830	49.997	62.889	104.548	1.00	0.00	H
ATOM	10041	CA	LEU	X	830	49.268	64.772	105.317	1.00	0.00	C
ATOM	10042	HA	LEU	X	830	49.694	65.758	105.501	1.00	0.00	H
ATOM	10043	CB	LEU	X	830	47.788	64.963	104.903	1.00	0.00	C
ATOM	10044	HB2	LEU	X	830	47.320	63.978	104.881	1.00	0.00	H
ATOM	10045	HB3	LEU	X	830	47.341	65.515	105.730	1.00	0.00	H
ATOM	10046	CG	LEU	X	830	47.644	65.725	103.677	1.00	0.00	C
ATOM	10047	HG	LEU	X	830	48.492	65.677	102.993	1.00	0.00	H
ATOM	10048	CD1	LEU	X	830	46.432	65.370	102.790	1.00	0.00	C
ATOM	10049	HD11	LEU	X	830	46.721	64.431	102.318	1.00	0.00	H
ATOM	10050	HD12	LEU	X	830	45.632	65.099	103.477	1.00	0.00	H
ATOM	10051	HD13	LEU	X	830	46.063	66.135	102.105	1.00	0.00	H
ATOM	10052	CD2	LEU	X	830	47.638	67.232	103.960	1.00	0.00	C
ATOM	10053	HD21	LEU	X	830	46.706	67.547	104.428	1.00	0.00	H
ATOM	10054	HD22	LEU	X	830	48.555	67.502	104.485	1.00	0.00	H
ATOM	10055	HD23	LEU	X	830	47.583	67.825	103.046	1.00	0.00	H
ATOM	10056	C	LEU	X	830	49.314	64.046	106.616	1.00	0.00	C
ATOM	10057	O	LEU	X	830	48.983	62.844	106.815	1.00	0.00	O
ATOM	10058	N	PHE	X	831	49.608	64.859	107.715	1.00	0.00	N
ATOM	10059	H	PHE	X	831	49.730	65.856	107.594	1.00	0.00	H
ATOM	10060	CA	PHE	X	831	49.604	64.318	109.126	1.00	0.00	C
ATOM	10061	HA	PHE	X	831	48.758	63.631	109.134	1.00	0.00	H
ATOM	10062	CB	PHE	X	831	50.925	63.622	109.462	1.00	0.00	C
ATOM	10063	HB2	PHE	X	831	51.007	62.825	108.723	1.00	0.00	H
ATOM	10064	HB3	PHE	X	831	51.745	64.340	109.445	1.00	0.00	H
ATOM	10065	CG	PHE	X	831	51.140	63.036	110.825	1.00	0.00	C
ATOM	10066	CD1	PHE	X	831	51.377	63.859	111.900	1.00	0.00	C
ATOM	10067	HD1	PHE	X	831	51.291	64.921	111.715	1.00	0.00	H
ATOM	10068	CE1	PHE	X	831	51.628	63.387	113.226	1.00	0.00	C
ATOM	10069	HE1	PHE	X	831	51.777	64.019	114.089	1.00	0.00	H
ATOM	10070	CZ	PHE	X	831	51.463	61.986	113.443	1.00	0.00	C
ATOM	10071	HZ	PHE	X	831	51.623	61.548	114.417	1.00	0.00	H
ATOM	10072	CE2	PHE	X	831	51.313	61.146	112.292	1.00	0.00	C
ATOM	10073	HE2	PHE	X	831	51.572	60.113	112.466	1.00	0.00	H
ATOM	10074	CD2	PHE	X	831	51.095	61.651	110.984	1.00	0.00	C
ATOM	10075	HD2	PHE	X	831	50.941	60.971	110.157	1.00	0.00	H
ATOM	10076	C	PHE	X	831	49.277	65.446	110.083	1.00	0.00	C
ATOM	10077	O	PHE	X	831	49.734	66.577	109.781	1.00	0.00	O
ATOM	10078	N	ASN	X	832	48.446	65.171	111.050	1.00	0.00	N
ATOM	10079	H	ASN	X	832	48.058	64.240	111.032	1.00	0.00	H
ATOM	10080	CA	ASN	X	832	47.854	66.141	112.007	1.00	0.00	C
ATOM	10081	HA	ASN	X	832	47.114	65.593	112.589	1.00	0.00	H
ATOM	10082	CB	ASN	X	832	49.011	66.681	112.898	1.00	0.00	C
ATOM	10083	HB2	ASN	X	832	49.807	65.963	113.089	1.00	0.00	H
ATOM	10084	HB3	ASN	X	832	49.473	67.573	112.473	1.00	0.00	H

ATOM	10085	CG	ASN	X	832	48.536	67.061	114.268	1.00	0.00	C
ATOM	10086	OD1	ASN	X	832	48.059	66.145	114.934	1.00	0.00	O
ATOM	10087	ND2	ASN	X	832	48.548	68.300	114.733	1.00	0.00	N
ATOM	10088	HD21	ASN	X	832	48.254	68.446	115.688	1.00	0.00	H
ATOM	10089	HD22	ASN	X	832	48.869	68.989	114.069	1.00	0.00	H
ATOM	10090	C	ASN	X	832	47.035	67.340	111.384	1.00	0.00	C
ATOM	10091	O	ASN	X	832	46.674	68.264	112.104	1.00	0.00	O
ATOM	10092	N	ASN	X	833	46.601	67.189	110.088	1.00	0.00	N
ATOM	10093	H	ASN	X	833	46.842	66.327	109.619	1.00	0.00	H
ATOM	10094	CA	ASN	X	833	45.808	68.114	109.315	1.00	0.00	C
ATOM	10095	HA	ASN	X	833	46.126	69.112	109.619	1.00	0.00	H
ATOM	10096	CB	ASN	X	833	46.034	67.918	107.787	1.00	0.00	C
ATOM	10097	HB2	ASN	X	833	45.641	66.916	107.610	1.00	0.00	H
ATOM	10098	HB3	ASN	X	833	45.420	68.616	107.216	1.00	0.00	H
ATOM	10099	CG	ASN	X	833	47.495	68.131	107.387	1.00	0.00	C
ATOM	10100	OD1	ASN	X	833	48.289	67.213	107.363	1.00	0.00	O
ATOM	10101	ND2	ASN	X	833	47.841	69.319	106.985	1.00	0.00	N
ATOM	10102	HD21	ASN	X	833	48.668	69.428	106.415	1.00	0.00	H
ATOM	10103	HD22	ASN	X	833	47.118	70.018	106.880	1.00	0.00	H
ATOM	10104	C	ASN	X	833	44.349	67.797	109.674	1.00	0.00	C
ATOM	10105	O	ASN	X	833	43.849	66.633	109.468	1.00	0.00	O
ATOM	10106	N	LYS	X	834	43.599	68.833	110.048	1.00	0.00	N
ATOM	10107	H	LYS	X	834	44.081	69.720	110.101	1.00	0.00	H
ATOM	10108	CA	LYS	X	834	42.226	68.698	110.517	1.00	0.00	C
ATOM	10109	HA	LYS	X	834	42.173	67.810	111.148	1.00	0.00	H
ATOM	10110	CB	LYS	X	834	41.872	69.950	111.419	1.00	0.00	C
ATOM	10111	HB2	LYS	X	834	42.090	70.896	110.927	1.00	0.00	H
ATOM	10112	HB3	LYS	X	834	40.785	69.989	111.499	1.00	0.00	H
ATOM	10113	CG	LYS	X	834	42.413	69.944	112.844	1.00	0.00	C
ATOM	10114	HG2	LYS	X	834	42.363	70.954	113.250	1.00	0.00	H
ATOM	10115	HG3	LYS	X	834	41.742	69.371	113.483	1.00	0.00	H
ATOM	10116	CD	LYS	X	834	43.904	69.415	113.000	1.00	0.00	C
ATOM	10117	HD2	LYS	X	834	43.878	68.418	112.562	1.00	0.00	H
ATOM	10118	HD3	LYS	X	834	44.604	70.103	112.525	1.00	0.00	H
ATOM	10119	CE	LYS	X	834	44.180	69.513	114.453	1.00	0.00	C
ATOM	10120	HE2	LYS	X	834	44.154	70.582	114.659	1.00	0.00	H
ATOM	10121	HE3	LYS	X	834	43.441	69.041	115.101	1.00	0.00	H
ATOM	10122	NZ	LYS	X	834	45.461	68.934	114.734	1.00	0.00	N
ATOM	10123	HZ1	LYS	X	834	45.404	67.936	114.586	1.00	0.00	H
ATOM	10124	HZ2	LYS	X	834	46.160	69.288	114.097	1.00	0.00	H
ATOM	10125	HZ3	LYS	X	834	45.694	69.178	115.685	1.00	0.00	H
ATOM	10126	C	LYS	X	834	41.138	68.598	109.420	1.00	0.00	C
ATOM	10127	O	LYS	X	834	39.965	68.993	109.539	1.00	0.00	O
ATOM	10128	N	LEU	X	835	41.454	67.895	108.312	1.00	0.00	N
ATOM	10129	H	LEU	X	835	42.414	67.582	108.325	1.00	0.00	H
ATOM	10130	CA	LEU	X	835	40.568	67.387	107.234	1.00	0.00	C
ATOM	10131	HA	LEU	X	835	40.208	68.307	106.774	1.00	0.00	H
ATOM	10132	CB	LEU	X	835	41.360	66.557	106.140	1.00	0.00	C
ATOM	10133	HB2	LEU	X	835	41.702	65.639	106.616	1.00	0.00	H
ATOM	10134	HB3	LEU	X	835	40.733	66.234	105.310	1.00	0.00	H
ATOM	10135	CG	LEU	X	835	42.585	67.309	105.649	1.00	0.00	C
ATOM	10136	HG	LEU	X	835	43.246	67.700	106.424	1.00	0.00	H
ATOM	10137	CD1	LEU	X	835	43.338	66.358	104.735	1.00	0.00	C
ATOM	10138	HD11	LEU	X	835	43.616	65.489	105.332	1.00	0.00	H
ATOM	10139	HD12	LEU	X	835	42.736	65.978	103.910	1.00	0.00	H
ATOM	10140	HD13	LEU	X	835	44.275	66.851	104.478	1.00	0.00	H
ATOM	10141	CD2	LEU	X	835	42.117	68.531	104.846	1.00	0.00	C
ATOM	10142	HD21	LEU	X	835	43.029	69.010	104.487	1.00	0.00	H
ATOM	10143	HD22	LEU	X	835	41.394	68.357	104.050	1.00	0.00	H
ATOM	10144	HD23	LEU	X	835	41.621	69.286	105.456	1.00	0.00	H
ATOM	10145	C	LEU	X	835	39.347	66.552	107.727	1.00	0.00	C
ATOM	10146	O	LEU	X	835	39.512	65.674	108.606	1.00	0.00	O
ATOM	10147	N	THR	X	836	38.298	66.767	107.020	1.00	0.00	N
ATOM	10148	H	THR	X	836	38.334	67.580	106.421	1.00	0.00	H
ATOM	10149	CA	THR	X	836	36.947	66.195	107.231	1.00	0.00	C
ATOM	10150	HA	THR	X	836	36.809	66.062	108.303	1.00	0.00	H
ATOM	10151	CB	THR	X	836	35.865	67.068	106.616	1.00	0.00	C
ATOM	10152	HB	THR	X	836	34.879	66.750	106.956	1.00	0.00	H
ATOM	10153	CG2	THR	X	836	35.853	68.513	107.141	1.00	0.00	C
ATOM	10154	HG21	THR	X	836	36.759	69.058	106.876	1.00	0.00	H
ATOM	10155	HG22	THR	X	836	35.075	69.168	106.751	1.00	0.00	H
ATOM	10156	HG23	THR	X	836	35.769	68.488	108.228	1.00	0.00	H
ATOM	10157	OG1	THR	X	836	35.846	67.122	105.198	1.00	0.00	O
ATOM	10158	HG1	THR	X	836	35.458	67.968	104.959	1.00	0.00	H
ATOM	10159	C	THR	X	836	36.886	64.753	106.590	1.00	0.00	C
ATOM	10160	O	THR	X	836	37.791	64.361	105.842	1.00	0.00	O
ATOM	10161	N	ASP	X	837	35.849	63.987	106.833	1.00	0.00	N
ATOM	10162	H	ASP	X	837	35.129	64.360	107.434	1.00	0.00	H
ATOM	10163	CA	ASP	X	837	35.396	62.867	106.043	1.00	0.00	C
ATOM	10164	HA	ASP	X	837	36.271	62.225	105.945	1.00	0.00	H
ATOM	10165	CB	ASP	X	837	34.341	62.094	106.903	1.00	0.00	C
ATOM	10166	HB2	ASP	X	837	34.232	61.092	106.487	1.00	0.00	H

ATOM	10167	HB3	ASP	X	837	34.843	61.960	107.861	1.00	0.00	H
ATOM	10168	CG	ASP	X	837	33.023	62.799	107.082	1.00	0.00	C
ATOM	10169	OD1	ASP	X	837	32.968	64.037	106.884	1.00	0.00	O
ATOM	10170	OD2	ASP	X	837	32.081	62.100	107.521	1.00	0.00	O
ATOM	10171	C	ASP	X	837	34.818	63.213	104.604	1.00	0.00	C
ATOM	10172	O	ASP	X	837	34.851	62.379	103.708	1.00	0.00	O
ATOM	10173	N	GLY	X	838	34.487	64.456	104.377	1.00	0.00	N
ATOM	10174	H	GLY	X	838	34.402	65.101	105.149	1.00	0.00	H
ATOM	10175	CA	GLY	X	838	34.227	65.017	103.034	1.00	0.00	C
ATOM	10176	HA2	GLY	X	838	33.507	64.465	102.428	1.00	0.00	H
ATOM	10177	HA3	GLY	X	838	33.835	66.016	103.229	1.00	0.00	H
ATOM	10178	C	GLY	X	838	35.485	65.198	102.180	1.00	0.00	C
ATOM	10179	O	GLY	X	838	35.426	65.012	100.960	1.00	0.00	O
ATOM	10180	N	CYS	X	839	36.597	65.519	102.798	1.00	0.00	N
ATOM	10181	H	CYS	X	839	36.494	65.639	103.795	1.00	0.00	H
ATOM	10182	CA	CYS	X	839	37.915	65.349	102.137	1.00	0.00	C
ATOM	10183	HA	CYS	X	839	37.843	66.103	101.353	1.00	0.00	H
ATOM	10184	CB	CYS	X	839	39.018	65.850	103.037	1.00	0.00	C
ATOM	10185	HB2	CYS	X	839	38.720	66.716	103.627	1.00	0.00	H
ATOM	10186	HB3	CYS	X	839	39.335	65.048	103.702	1.00	0.00	H
ATOM	10187	SG	CYS	X	839	40.553	66.306	102.132	1.00	0.00	S
ATOM	10188	HG	CYS	X	839	40.547	65.196	101.390	1.00	0.00	H
ATOM	10189	C	CYS	X	839	38.248	63.906	101.595	1.00	0.00	C
ATOM	10190	O	CYS	X	839	39.300	63.758	100.938	1.00	0.00	O
ATOM	10191	N	ALA	X	840	37.476	62.881	101.865	1.00	0.00	N
ATOM	10192	H	ALA	X	840	36.683	63.108	102.449	1.00	0.00	H
ATOM	10193	CA	ALA	X	840	37.642	61.537	101.367	1.00	0.00	C
ATOM	10194	HA	ALA	X	840	38.701	61.280	101.394	1.00	0.00	H
ATOM	10195	CB	ALA	X	840	36.839	60.492	102.182	1.00	0.00	C
ATOM	10196	HB1	ALA	X	840	37.133	60.577	103.228	1.00	0.00	H
ATOM	10197	HB2	ALA	X	840	35.754	60.566	102.111	1.00	0.00	H
ATOM	10198	HB3	ALA	X	840	37.098	59.470	101.909	1.00	0.00	H
ATOM	10199	C	ALA	X	840	37.335	61.357	99.794	1.00	0.00	C
ATOM	10200	O	ALA	X	840	38.176	60.989	99.004	1.00	0.00	O
ATOM	10201	N	HID	X	841	36.235	62.087	99.469	1.00	0.00	N
ATOM	10202	H	HID	X	841	35.652	62.519	100.172	1.00	0.00	H
ATOM	10203	CA	HID	X	841	35.617	62.188	98.124	1.00	0.00	C
ATOM	10204	HA	HID	X	841	35.173	61.206	97.961	1.00	0.00	H
ATOM	10205	CB	HID	X	841	34.388	63.135	97.981	1.00	0.00	C
ATOM	10206	HB2	HID	X	841	33.661	62.736	98.688	1.00	0.00	H
ATOM	10207	HB3	HID	X	841	34.629	64.178	98.184	1.00	0.00	H
ATOM	10208	CG	HID	X	841	33.842	63.070	96.637	1.00	0.00	C
ATOM	10209	ND1	HID	X	841	34.223	63.751	95.466	1.00	0.00	N
ATOM	10210	HD1	HID	X	841	34.986	64.397	95.323	1.00	0.00	H
ATOM	10211	CE1	HID	X	841	33.561	63.163	94.489	1.00	0.00	C
ATOM	10212	HE1	HID	X	841	33.747	63.372	93.445	1.00	0.00	H
ATOM	10213	NE2	HID	X	841	32.826	62.129	94.940	1.00	0.00	N
ATOM	10214	CD2	HID	X	841	33.004	62.047	96.335	1.00	0.00	C
ATOM	10215	HD2	HID	X	841	32.498	61.327	96.961	1.00	0.00	H
ATOM	10216	C	HID	X	841	36.627	62.385	96.955	1.00	0.00	C
ATOM	10217	O	HID	X	841	36.660	61.552	96.105	1.00	0.00	O
ATOM	10218	N	SER	X	842	37.395	63.455	96.983	1.00	0.00	N
ATOM	10219	H	SER	X	842	37.226	64.121	97.723	1.00	0.00	H
ATOM	10220	CA	SER	X	842	38.386	63.898	95.876	1.00	0.00	C
ATOM	10221	HA	SER	X	842	37.854	63.877	94.925	1.00	0.00	H
ATOM	10222	CB	SER	X	842	38.714	65.374	96.045	1.00	0.00	C
ATOM	10223	HB2	SER	X	842	39.515	65.661	95.365	1.00	0.00	H
ATOM	10224	HB3	SER	X	842	37.881	66.042	95.824	1.00	0.00	H
ATOM	10225	OG	SER	X	842	39.251	65.697	97.337	1.00	0.00	O
ATOM	10226	HG	SER	X	842	38.566	65.731	98.009	1.00	0.00	H
ATOM	10227	C	SER	X	842	39.731	63.069	95.776	1.00	0.00	C
ATOM	10228	O	SER	X	842	40.165	62.709	94.663	1.00	0.00	O
ATOM	10229	N	VAL	X	843	40.307	62.716	96.919	1.00	0.00	N
ATOM	10230	H	VAL	X	843	39.855	62.976	97.784	1.00	0.00	H
ATOM	10231	CA	VAL	X	843	41.411	61.710	96.996	1.00	0.00	C
ATOM	10232	HA	VAL	X	843	42.303	61.966	96.421	1.00	0.00	H
ATOM	10233	CB	VAL	X	843	41.795	61.685	98.543	1.00	0.00	C
ATOM	10234	HB	VAL	X	843	40.998	61.309	99.186	1.00	0.00	H
ATOM	10235	CG1	VAL	X	843	42.949	60.610	98.756	1.00	0.00	C
ATOM	10236	HG11	VAL	X	843	43.168	60.595	99.824	1.00	0.00	H
ATOM	10237	HG12	VAL	X	843	42.672	59.637	98.351	1.00	0.00	H
ATOM	10238	HG13	VAL	X	843	43.781	60.913	98.121	1.00	0.00	H
ATOM	10239	CG2	VAL	X	843	42.260	63.030	99.041	1.00	0.00	C
ATOM	10240	HG21	VAL	X	843	42.613	63.092	100.071	1.00	0.00	H
ATOM	10241	HG22	VAL	X	843	43.095	63.312	98.400	1.00	0.00	H
ATOM	10242	HG23	VAL	X	843	41.490	63.778	98.855	1.00	0.00	H
ATOM	10243	C	VAL	X	843	40.989	60.379	96.381	1.00	0.00	C
ATOM	10244	O	VAL	X	843	41.739	59.796	95.669	1.00	0.00	O
ATOM	10245	N	ALA	X	844	39.768	59.868	96.665	1.00	0.00	N
ATOM	10246	H	ALA	X	844	39.127	60.337	97.288	1.00	0.00	H
ATOM	10247	CA	ALA	X	844	39.316	58.642	96.098	1.00	0.00	C
ATOM	10248	HA	ALA	X	844	40.048	57.866	96.325	1.00	0.00	H

ATOM	10249	CB	ALA	X	844	37.998	58.210	96.694	1.00	0.00	C
ATOM	10250	HB1	ALA	X	844	37.323	59.043	96.492	1.00	0.00	H
ATOM	10251	HB2	ALA	X	844	37.677	57.300	96.187	1.00	0.00	H
ATOM	10252	HB3	ALA	X	844	38.242	57.878	97.704	1.00	0.00	H
ATOM	10253	C	ALA	X	844	39.250	58.720	94.530	1.00	0.00	C
ATOM	10254	O	ALA	X	844	39.554	57.775	93.815	1.00	0.00	O
ATOM	10255	N	GLN	X	845	38.920	59.913	93.980	1.00	0.00	N
ATOM	10256	H	GLN	X	845	38.657	60.681	94.581	1.00	0.00	H
ATOM	10257	CA	GLN	X	845	38.945	60.196	92.513	1.00	0.00	C
ATOM	10258	HA	GLN	X	845	38.510	59.366	91.956	1.00	0.00	H
ATOM	10259	CB	GLN	X	845	38.242	61.500	92.028	1.00	0.00	C
ATOM	10260	HB2	GLN	X	845	38.946	62.304	92.236	1.00	0.00	H
ATOM	10261	HB3	GLN	X	845	38.204	61.462	90.940	1.00	0.00	H
ATOM	10262	CG	GLN	X	845	36.863	61.719	92.629	1.00	0.00	C
ATOM	10263	HG2	GLN	X	845	36.916	61.822	93.713	1.00	0.00	H
ATOM	10264	HG3	GLN	X	845	36.357	62.606	92.248	1.00	0.00	H
ATOM	10265	CD	GLN	X	845	35.824	60.603	92.270	1.00	0.00	C
ATOM	10266	OE1	GLN	X	845	35.607	60.222	91.131	1.00	0.00	O
ATOM	10267	NE2	GLN	X	845	35.120	60.122	93.334	1.00	0.00	N
ATOM	10268	HE21	GLN	X	845	34.670	59.226	93.220	1.00	0.00	H
ATOM	10269	HE22	GLN	X	845	35.210	60.546	94.246	1.00	0.00	H
ATOM	10270	C	GLN	X	845	40.364	60.170	91.997	1.00	0.00	C
ATOM	10271	O	GLN	X	845	40.609	59.631	90.912	1.00	0.00	O
ATOM	10272	N	LEU	X	846	41.378	60.740	92.691	1.00	0.00	N
ATOM	10273	H	LEU	X	846	41.182	61.183	93.578	1.00	0.00	H
ATOM	10274	CA	LEU	X	846	42.788	60.717	92.364	1.00	0.00	C
ATOM	10275	HA	LEU	X	846	42.949	61.098	91.355	1.00	0.00	H
ATOM	10276	CB	LEU	X	846	43.592	61.571	93.300	1.00	0.00	C
ATOM	10277	HB2	LEU	X	846	43.061	62.515	93.423	1.00	0.00	H
ATOM	10278	HB3	LEU	X	846	43.740	61.119	94.280	1.00	0.00	H
ATOM	10279	CG	LEU	X	846	45.012	61.930	92.809	1.00	0.00	C
ATOM	10280	HG	LEU	X	846	45.444	60.996	92.450	1.00	0.00	H
ATOM	10281	CD1	LEU	X	846	44.969	62.902	91.612	1.00	0.00	C
ATOM	10282	HD11	LEU	X	846	44.368	63.784	91.833	1.00	0.00	H
ATOM	10283	HD12	LEU	X	846	45.977	63.197	91.325	1.00	0.00	H
ATOM	10284	HD13	LEU	X	846	44.358	62.504	90.801	1.00	0.00	H
ATOM	10285	CD2	LEU	X	846	45.898	62.423	93.899	1.00	0.00	C
ATOM	10286	HD21	LEU	X	846	45.908	61.588	94.600	1.00	0.00	H
ATOM	10287	HD22	LEU	X	846	46.918	62.551	93.534	1.00	0.00	H
ATOM	10288	HD23	LEU	X	846	45.353	63.224	94.398	1.00	0.00	H
ATOM	10289	C	LEU	X	846	43.221	59.228	92.370	1.00	0.00	C
ATOM	10290	O	LEU	X	846	43.933	58.845	91.426	1.00	0.00	O
ATOM	10291	N	LEU	X	847	42.987	58.528	93.450	1.00	0.00	N
ATOM	10292	H	LEU	X	847	42.416	58.959	94.161	1.00	0.00	H
ATOM	10293	CA	LEU	X	847	43.359	57.090	93.625	1.00	0.00	C
ATOM	10294	HA	LEU	X	847	44.442	57.038	93.510	1.00	0.00	H
ATOM	10295	CB	LEU	X	847	42.807	56.503	94.884	1.00	0.00	C
ATOM	10296	HB2	LEU	X	847	41.768	56.794	95.048	1.00	0.00	H
ATOM	10297	HB3	LEU	X	847	42.924	55.430	94.738	1.00	0.00	H
ATOM	10298	CG	LEU	X	847	43.615	56.784	96.188	1.00	0.00	C
ATOM	10299	HG	LEU	X	847	43.971	57.811	96.264	1.00	0.00	H
ATOM	10300	CD1	LEU	X	847	42.709	56.573	97.393	1.00	0.00	C
ATOM	10301	HD11	LEU	X	847	42.380	55.540	97.279	1.00	0.00	H
ATOM	10302	HD12	LEU	X	847	43.344	56.667	98.273	1.00	0.00	H
ATOM	10303	HD13	LEU	X	847	41.804	57.173	97.490	1.00	0.00	H
ATOM	10304	CD2	LEU	X	847	44.795	55.857	96.401	1.00	0.00	C
ATOM	10305	HD21	LEU	X	847	45.526	55.981	95.603	1.00	0.00	H
ATOM	10306	HD22	LEU	X	847	45.245	55.979	97.387	1.00	0.00	H
ATOM	10307	HD23	LEU	X	847	44.505	54.815	96.266	1.00	0.00	H
ATOM	10308	C	LEU	X	847	42.907	56.204	92.453	1.00	0.00	C
ATOM	10309	O	LEU	X	847	43.705	55.473	91.855	1.00	0.00	O
ATOM	10310	N	ALA	X	848	41.709	56.351	91.935	1.00	0.00	N
ATOM	10311	H	ALA	X	848	41.139	57.050	92.390	1.00	0.00	H
ATOM	10312	CA	ALA	X	848	41.109	55.552	90.878	1.00	0.00	C
ATOM	10313	HA	ALA	X	848	41.264	54.473	90.916	1.00	0.00	H
ATOM	10314	CB	ALA	X	848	39.535	55.756	90.877	1.00	0.00	C
ATOM	10315	HB1	ALA	X	848	38.975	55.222	90.109	1.00	0.00	H
ATOM	10316	HB2	ALA	X	848	39.246	55.291	91.819	1.00	0.00	H
ATOM	10317	HB3	ALA	X	848	39.320	56.823	90.821	1.00	0.00	H
ATOM	10318	C	ALA	X	848	41.657	55.969	89.496	1.00	0.00	C
ATOM	10319	O	ALA	X	848	41.891	55.052	88.659	1.00	0.00	O
ATOM	10320	N	CYS	X	849	41.858	57.223	89.238	1.00	0.00	N
ATOM	10321	H	CYS	X	849	41.668	57.860	89.998	1.00	0.00	H
ATOM	10322	CA	CYS	X	849	42.371	57.897	88.078	1.00	0.00	C
ATOM	10323	HA	CYS	X	849	41.781	57.532	87.237	1.00	0.00	H
ATOM	10324	CB	CYS	X	849	42.046	59.392	88.181	1.00	0.00	C
ATOM	10325	HB2	CYS	X	849	40.961	59.477	88.239	1.00	0.00	H
ATOM	10326	HB3	CYS	X	849	42.387	59.938	89.061	1.00	0.00	H
ATOM	10327	SG	CYS	X	849	42.582	60.348	86.790	1.00	0.00	S
ATOM	10328	HG	CYS	X	849	41.904	59.553	85.960	1.00	0.00	H
ATOM	10329	C	CYS	X	849	43.899	57.667	87.822	1.00	0.00	C
ATOM	10330	O	CYS	X	849	44.264	57.068	86.843	1.00	0.00	O

ATOM	10331	N	LYS	X	850	44.838	58.113	88.628	1.00	0.00	N
ATOM	10332	H	LYS	X	850	44.512	58.425	89.532	1.00	0.00	H
ATOM	10333	CA	LYS	X	850	46.257	58.111	88.312	1.00	0.00	C
ATOM	10334	HA	LYS	X	850	46.412	58.322	87.255	1.00	0.00	H
ATOM	10335	CB	LYS	X	850	46.871	59.219	89.190	1.00	0.00	C
ATOM	10336	HB2	LYS	X	850	46.741	58.901	90.223	1.00	0.00	H
ATOM	10337	HB3	LYS	X	850	47.952	59.304	89.072	1.00	0.00	H
ATOM	10338	CG	LYS	X	850	46.371	60.611	88.957	1.00	0.00	C
ATOM	10339	HG2	LYS	X	850	45.287	60.515	89.038	1.00	0.00	H
ATOM	10340	HG3	LYS	X	850	46.616	61.236	89.816	1.00	0.00	H
ATOM	10341	CD	LYS	X	850	46.743	61.228	87.563	1.00	0.00	C
ATOM	10342	HD2	LYS	X	850	46.706	62.319	87.587	1.00	0.00	H
ATOM	10343	HD3	LYS	X	850	47.753	60.856	87.397	1.00	0.00	H
ATOM	10344	CE	LYS	X	850	45.789	60.813	86.352	1.00	0.00	C
ATOM	10345	HE2	LYS	X	850	45.459	59.774	86.356	1.00	0.00	H
ATOM	10346	HE3	LYS	X	850	44.904	61.432	86.499	1.00	0.00	H
ATOM	10347	NZ	LYS	X	850	46.340	61.278	85.077	1.00	0.00	N
ATOM	10348	HZ1	LYS	X	850	46.700	62.219	84.993	1.00	0.00	H
ATOM	10349	HZ2	LYS	X	850	47.196	60.793	84.848	1.00	0.00	H
ATOM	10350	HZ3	LYS	X	850	45.763	61.093	84.270	1.00	0.00	H
ATOM	10351	C	LYS	X	850	47.058	56.861	88.554	1.00	0.00	C
ATOM	10352	O	LYS	X	850	47.190	56.363	89.696	1.00	0.00	O
ATOM	10353	N	GLN	X	851	47.864	56.539	87.506	1.00	0.00	N
ATOM	10354	H	GLN	X	851	47.740	57.030	86.633	1.00	0.00	H
ATOM	10355	CA	GLN	X	851	48.548	55.209	87.389	1.00	0.00	C
ATOM	10356	HA	GLN	X	851	48.325	54.540	88.220	1.00	0.00	H
ATOM	10357	CB	GLN	X	851	48.145	54.553	86.021	1.00	0.00	C
ATOM	10358	HB2	GLN	X	851	48.632	55.132	85.238	1.00	0.00	H
ATOM	10359	HB3	GLN	X	851	48.561	53.548	85.937	1.00	0.00	H
ATOM	10360	CG	GLN	X	851	46.606	54.436	85.828	1.00	0.00	C
ATOM	10361	HG2	GLN	X	851	46.312	53.634	86.504	1.00	0.00	H
ATOM	10362	HG3	GLN	X	851	46.062	55.346	86.083	1.00	0.00	H
ATOM	10363	CD	GLN	X	851	46.124	54.045	84.403	1.00	0.00	C
ATOM	10364	OE1	GLN	X	851	46.747	53.242	83.623	1.00	0.00	O
ATOM	10365	NE2	GLN	X	851	44.928	54.435	83.981	1.00	0.00	N
ATOM	10366	HE21	GLN	X	851	44.540	53.869	83.239	1.00	0.00	H
ATOM	10367	HE22	GLN	X	851	44.339	54.901	84.656	1.00	0.00	H
ATOM	10368	C	GLN	X	851	50.032	55.269	87.393	1.00	0.00	C
ATOM	10369	O	GLN	X	851	50.686	54.270	87.534	1.00	0.00	O
ATOM	10370	N	ASN	X	852	50.545	56.495	87.452	1.00	0.00	N
ATOM	10371	H	ASN	X	852	49.927	57.264	87.661	1.00	0.00	H
ATOM	10372	CA	ASN	X	852	51.866	56.852	87.667	1.00	0.00	C
ATOM	10373	HA	ASN	X	852	52.501	55.972	87.567	1.00	0.00	H
ATOM	10374	CB	ASN	X	852	52.401	57.789	86.567	1.00	0.00	C
ATOM	10375	HB2	ASN	X	852	52.087	58.823	86.714	1.00	0.00	H
ATOM	10376	HB3	ASN	X	852	53.484	57.746	86.672	1.00	0.00	H
ATOM	10377	CG	ASN	X	852	51.963	57.378	85.217	1.00	0.00	C
ATOM	10378	OD1	ASN	X	852	52.537	56.427	84.667	1.00	0.00	O
ATOM	10379	ND2	ASN	X	852	51.126	58.132	84.568	1.00	0.00	N
ATOM	10380	HD21	ASN	X	852	50.842	57.780	83.665	1.00	0.00	H
ATOM	10381	HD22	ASN	X	852	50.662	58.861	85.092	1.00	0.00	H
ATOM	10382	C	ASN	X	852	52.038	57.357	89.149	1.00	0.00	C
ATOM	10383	O	ASN	X	852	53.109	57.778	89.456	1.00	0.00	O
ATOM	10384	N	PHE	X	853	50.961	57.363	89.947	1.00	0.00	N
ATOM	10385	H	PHE	X	853	50.033	57.143	89.617	1.00	0.00	H
ATOM	10386	CA	PHE	X	853	50.935	57.824	91.325	1.00	0.00	C
ATOM	10387	HA	PHE	X	853	51.805	58.480	91.354	1.00	0.00	H
ATOM	10388	CB	PHE	X	853	49.619	58.511	91.606	1.00	0.00	C
ATOM	10389	HB2	PHE	X	853	49.539	59.474	91.101	1.00	0.00	H
ATOM	10390	HB3	PHE	X	853	48.809	57.927	91.171	1.00	0.00	H
ATOM	10391	CG	PHE	X	853	49.187	58.849	93.082	1.00	0.00	C
ATOM	10392	CD1	PHE	X	853	47.979	58.338	93.556	1.00	0.00	C
ATOM	10393	HD1	PHE	X	853	47.406	57.756	92.847	1.00	0.00	H
ATOM	10394	CE1	PHE	X	853	47.585	58.539	94.867	1.00	0.00	C
ATOM	10395	HE1	PHE	X	853	46.578	58.310	95.183	1.00	0.00	H
ATOM	10396	CZ	PHE	X	853	48.410	59.331	95.746	1.00	0.00	C
ATOM	10397	HZ	PHE	X	853	47.984	59.696	96.669	1.00	0.00	H
ATOM	10398	CE2	PHE	X	853	49.641	59.768	95.306	1.00	0.00	C
ATOM	10399	HE2	PHE	X	853	50.264	60.382	95.938	1.00	0.00	H
ATOM	10400	CD2	PHE	X	853	49.944	59.607	93.958	1.00	0.00	C
ATOM	10401	HD2	PHE	X	853	50.785	60.200	93.633	1.00	0.00	H
ATOM	10402	C	PHE	X	853	51.245	56.695	92.309	1.00	0.00	C
ATOM	10403	O	PHE	X	853	50.596	55.692	92.148	1.00	0.00	O
ATOM	10404	N	LEU	X	854	52.220	56.909	93.221	1.00	0.00	N
ATOM	10405	H	LEU	X	854	52.656	57.816	93.309	1.00	0.00	H
ATOM	10406	CA	LEU	X	854	52.841	55.742	93.875	1.00	0.00	C
ATOM	10407	HA	LEU	X	854	52.301	54.870	93.508	1.00	0.00	H
ATOM	10408	CB	LEU	X	854	54.280	55.589	93.419	1.00	0.00	C
ATOM	10409	HB2	LEU	X	854	54.880	56.328	93.950	1.00	0.00	H
ATOM	10410	HB3	LEU	X	854	54.670	54.625	93.745	1.00	0.00	H
ATOM	10411	CG	LEU	X	854	54.536	55.565	91.871	1.00	0.00	C
ATOM	10412	HG	LEU	X	854	54.249	56.522	91.432	1.00	0.00	H

ATOM	10413	CD1	LEU	X	854	56.054	55.346	91.620	1.00	0.00	C
ATOM	10414	HD11	LEU	X	854	56.310	54.368	92.028	1.00	0.00	H
ATOM	10415	HD12	LEU	X	854	56.337	55.366	90.569	1.00	0.00	H
ATOM	10416	HD13	LEU	X	854	56.687	56.060	92.146	1.00	0.00	H
ATOM	10417	CD2	LEU	X	854	53.840	54.416	91.142	1.00	0.00	C
ATOM	10418	HD21	LEU	X	854	52.785	54.656	91.274	1.00	0.00	H
ATOM	10419	HD22	LEU	X	854	54.234	54.477	90.128	1.00	0.00	H
ATOM	10420	HD23	LEU	X	854	53.978	53.456	91.641	1.00	0.00	H
ATOM	10421	C	LEU	X	854	52.771	55.690	95.353	1.00	0.00	C
ATOM	10422	O	LEU	X	854	52.916	54.610	95.902	1.00	0.00	O
ATOM	10423	N	ALA	X	855	52.506	56.818	96.137	1.00	0.00	N
ATOM	10424	H	ALA	X	855	52.599	57.726	95.706	1.00	0.00	H
ATOM	10425	CA	ALA	X	855	52.320	56.757	97.568	1.00	0.00	C
ATOM	10426	HA	ALA	X	855	51.955	55.762	97.823	1.00	0.00	H
ATOM	10427	CB	ALA	X	855	53.760	56.779	98.184	1.00	0.00	C
ATOM	10428	HB1	ALA	X	855	54.380	55.994	97.753	1.00	0.00	H
ATOM	10429	HB2	ALA	X	855	54.179	57.742	97.895	1.00	0.00	H
ATOM	10430	HB3	ALA	X	855	53.587	56.654	99.252	1.00	0.00	H
ATOM	10431	C	ALA	X	855	51.235	57.746	98.100	1.00	0.00	C
ATOM	10432	O	ALA	X	855	51.281	58.927	97.895	1.00	0.00	O
ATOM	10433	N	LEU	X	856	50.405	57.258	99.090	1.00	0.00	N
ATOM	10434	H	LEU	X	856	50.476	56.309	99.426	1.00	0.00	H
ATOM	10435	CA	LEU	X	856	49.590	58.154	99.905	1.00	0.00	C
ATOM	10436	HA	LEU	X	856	50.028	59.146	99.783	1.00	0.00	H
ATOM	10437	CB	LEU	X	856	48.203	58.081	99.234	1.00	0.00	C
ATOM	10438	HB2	LEU	X	856	48.321	58.376	98.191	1.00	0.00	H
ATOM	10439	HB3	LEU	X	856	47.801	57.069	99.209	1.00	0.00	H
ATOM	10440	CG	LEU	X	856	47.263	59.027	99.987	1.00	0.00	C
ATOM	10441	HG	LEU	X	856	47.315	58.744	101.039	1.00	0.00	H
ATOM	10442	CD1	LEU	X	856	47.530	60.577	99.831	1.00	0.00	C
ATOM	10443	HD11	LEU	X	856	48.548	60.906	100.036	1.00	0.00	H
ATOM	10444	HD12	LEU	X	856	47.284	60.905	98.822	1.00	0.00	H
ATOM	10445	HD13	LEU	X	856	46.883	61.230	100.419	1.00	0.00	H
ATOM	10446	CD2	LEU	X	856	45.846	58.700	99.389	1.00	0.00	C
ATOM	10447	HD21	LEU	X	856	45.871	58.704	98.300	1.00	0.00	H
ATOM	10448	HD22	LEU	X	856	45.501	57.690	99.617	1.00	0.00	H
ATOM	10449	HD23	LEU	X	856	45.179	59.298	100.010	1.00	0.00	H
ATOM	10450	C	LEU	X	856	49.773	57.909	101.389	1.00	0.00	C
ATOM	10451	O	LEU	X	856	49.297	56.892	101.856	1.00	0.00	O
ATOM	10452	N	ARG	X	857	50.317	58.865	102.146	1.00	0.00	N
ATOM	10453	H	ARG	X	857	50.634	59.759	101.799	1.00	0.00	H
ATOM	10454	CA	ARG	X	857	50.206	58.653	103.645	1.00	0.00	C
ATOM	10455	HA	ARG	X	857	49.772	57.695	103.932	1.00	0.00	H
ATOM	10456	CB	ARG	X	857	51.630	58.591	104.124	1.00	0.00	C
ATOM	10457	HB2	ARG	X	857	52.199	59.417	103.696	1.00	0.00	H
ATOM	10458	HB3	ARG	X	857	51.698	58.858	105.180	1.00	0.00	H
ATOM	10459	CG	ARG	X	857	52.373	57.349	103.755	1.00	0.00	C
ATOM	10460	HG2	ARG	X	857	52.077	56.625	104.515	1.00	0.00	H
ATOM	10461	HG3	ARG	X	857	52.138	56.975	102.758	1.00	0.00	H
ATOM	10462	CD	ARG	X	857	53.836	57.671	103.852	1.00	0.00	C
ATOM	10463	HD2	ARG	X	857	54.032	58.520	103.197	1.00	0.00	H
ATOM	10464	HD3	ARG	X	857	53.989	57.876	104.911	1.00	0.00	H
ATOM	10465	NE	ARG	X	857	54.741	56.648	103.499	1.00	0.00	N
ATOM	10466	HE	ARG	X	857	54.951	56.028	104.268	1.00	0.00	H
ATOM	10467	CZ	ARG	X	857	55.258	56.361	102.267	1.00	0.00	C
ATOM	10468	NH1	ARG	X	857	55.051	57.053	101.217	1.00	0.00	N
ATOM	10469	HH11	ARG	X	857	54.469	57.870	101.348	1.00	0.00	H
ATOM	10470	HH12	ARG	X	857	55.668	56.856	100.443	1.00	0.00	H
ATOM	10471	NH2	ARG	X	857	55.974	55.301	102.164	1.00	0.00	N
ATOM	10472	HH21	ARG	X	857	55.996	54.623	102.913	1.00	0.00	H
ATOM	10473	HH22	ARG	X	857	56.510	55.109	101.330	1.00	0.00	H
ATOM	10474	C	ARG	X	857	49.462	59.712	104.397	1.00	0.00	C
ATOM	10475	O	ARG	X	857	49.798	60.841	104.307	1.00	0.00	O
ATOM	10476	N	LEU	X	858	48.417	59.326	104.995	1.00	0.00	N
ATOM	10477	H	LEU	X	858	48.542	58.330	105.109	1.00	0.00	H
ATOM	10478	CA	LEU	X	858	47.424	60.128	105.749	1.00	0.00	C
ATOM	10479	HA	LEU	X	858	47.520	61.205	105.599	1.00	0.00	H
ATOM	10480	CB	LEU	X	858	45.937	59.897	105.332	1.00	0.00	C
ATOM	10481	HB2	LEU	X	858	45.784	58.821	105.406	1.00	0.00	H
ATOM	10482	HB3	LEU	X	858	45.226	60.346	106.026	1.00	0.00	H
ATOM	10483	CG	LEU	X	858	45.633	60.282	103.917	1.00	0.00	C
ATOM	10484	HG	LEU	X	858	46.409	60.030	103.194	1.00	0.00	H
ATOM	10485	CD1	LEU	X	858	44.445	59.439	103.465	1.00	0.00	C
ATOM	10486	HD11	LEU	X	858	44.224	59.786	102.456	1.00	0.00	H
ATOM	10487	HD12	LEU	X	858	44.759	58.395	103.453	1.00	0.00	H
ATOM	10488	HD13	LEU	X	858	43.597	59.583	104.135	1.00	0.00	H
ATOM	10489	CD2	LEU	X	858	45.114	61.737	103.868	1.00	0.00	C
ATOM	10490	HD21	LEU	X	858	44.571	61.824	102.927	1.00	0.00	H
ATOM	10491	HD22	LEU	X	858	44.417	61.949	104.679	1.00	0.00	H
ATOM	10492	HD23	LEU	X	858	45.961	62.419	103.950	1.00	0.00	H
ATOM	10493	C	LEU	X	858	47.678	59.904	107.213	1.00	0.00	C
ATOM	10494	O	LEU	X	858	47.931	58.756	107.567	1.00	0.00	O

ATOM	10495	N	GLY	X	859	47.484	60.842	108.150	1.00	0.00	N
ATOM	10496	H	GLY	X	859	47.313	61.793	107.857	1.00	0.00	H
ATOM	10497	CA	GLY	X	859	47.463	60.631	109.610	1.00	0.00	C
ATOM	10498	HA2	GLY	X	859	46.912	59.702	109.759	1.00	0.00	H
ATOM	10499	HA3	GLY	X	859	48.486	60.651	109.985	1.00	0.00	H
ATOM	10500	C	GLY	X	859	46.685	61.711	110.389	1.00	0.00	C
ATOM	10501	O	GLY	X	859	46.722	62.884	110.093	1.00	0.00	O
ATOM	10502	N	ASN	X	860	46.051	61.246	111.461	1.00	0.00	N
ATOM	10503	H	ASN	X	860	45.946	60.245	111.551	1.00	0.00	H
ATOM	10504	CA	ASN	X	860	45.443	61.994	112.572	1.00	0.00	C
ATOM	10505	HA	ASN	X	860	44.856	61.269	113.138	1.00	0.00	H
ATOM	10506	CB	ASN	X	860	46.494	62.487	113.495	1.00	0.00	C
ATOM	10507	HB2	ASN	X	860	47.204	61.679	113.679	1.00	0.00	H
ATOM	10508	HB3	ASN	X	860	47.008	63.393	113.176	1.00	0.00	H
ATOM	10509	CG	ASN	X	860	45.921	62.800	114.861	1.00	0.00	C
ATOM	10510	OD1	ASN	X	860	44.823	62.461	115.208	1.00	0.00	O
ATOM	10511	ND2	ASN	X	860	46.639	63.445	115.741	1.00	0.00	N
ATOM	10512	HD21	ASN	X	860	46.200	63.774	116.589	1.00	0.00	H
ATOM	10513	HD22	ASN	X	860	47.475	63.882	115.379	1.00	0.00	H
ATOM	10514	C	ASN	X	860	44.435	63.052	112.034	1.00	0.00	C
ATOM	10515	O	ASN	X	860	44.424	64.231	112.454	1.00	0.00	O
ATOM	10516	N	ASN	X	861	43.778	62.636	110.939	1.00	0.00	N
ATOM	10517	H	ASN	X	861	43.752	61.663	110.671	1.00	0.00	H
ATOM	10518	CA	ASN	X	861	42.546	63.372	110.473	1.00	0.00	C
ATOM	10519	HA	ASN	X	861	42.776	64.437	110.532	1.00	0.00	H
ATOM	10520	CB	ASN	X	861	42.192	63.031	108.989	1.00	0.00	C
ATOM	10521	HB2	ASN	X	861	41.674	62.079	109.105	1.00	0.00	H
ATOM	10522	HB3	ASN	X	861	41.522	63.767	108.545	1.00	0.00	H
ATOM	10523	CG	ASN	X	861	43.365	62.984	108.020	1.00	0.00	C
ATOM	10524	OD1	ASN	X	861	43.678	62.001	107.410	1.00	0.00	O
ATOM	10525	ND2	ASN	X	861	44.065	64.137	107.923	1.00	0.00	N
ATOM	10526	HD21	ASN	X	861	45.006	64.159	107.558	1.00	0.00	H
ATOM	10527	HD22	ASN	X	861	43.631	64.943	108.349	1.00	0.00	H
ATOM	10528	C	ASN	X	861	41.302	63.099	111.391	1.00	0.00	C
ATOM	10529	O	ASN	X	861	41.467	62.496	112.485	1.00	0.00	O
ATOM	10530	N	HID	X	862	40.098	63.458	110.931	1.00	0.00	N
ATOM	10531	H	HID	X	862	40.003	64.096	110.153	1.00	0.00	H
ATOM	10532	CA	HID	X	862	38.786	63.020	111.508	1.00	0.00	C
ATOM	10533	HA	HID	X	862	38.939	62.224	112.236	1.00	0.00	H
ATOM	10534	CB	HID	X	862	38.077	64.186	112.156	1.00	0.00	C
ATOM	10535	HB2	HID	X	862	37.769	64.853	111.352	1.00	0.00	H
ATOM	10536	HB3	HID	X	862	37.183	63.883	112.701	1.00	0.00	H
ATOM	10537	CG	HID	X	862	38.950	65.055	113.042	1.00	0.00	C
ATOM	10538	ND1	HID	X	862	39.479	64.577	114.242	1.00	0.00	N
ATOM	10539	HD1	HID	X	862	39.532	63.654	114.647	1.00	0.00	H
ATOM	10540	CE1	HID	X	862	40.505	65.394	114.580	1.00	0.00	C
ATOM	10541	HE1	HID	X	862	41.209	65.227	115.383	1.00	0.00	H
ATOM	10542	NE2	HID	X	862	40.520	66.443	113.691	1.00	0.00	N
ATOM	10543	CD2	HID	X	862	39.537	66.264	112.727	1.00	0.00	C
ATOM	10544	HD2	HID	X	862	39.466	66.807	111.796	1.00	0.00	H
ATOM	10545	C	HID	X	862	37.880	62.345	110.429	1.00	0.00	C
ATOM	10546	O	HID	X	862	36.660	62.430	110.428	1.00	0.00	O
ATOM	10547	N	ILE	X	863	38.540	61.575	109.534	1.00	0.00	N
ATOM	10548	H	ILE	X	863	39.493	61.366	109.793	1.00	0.00	H
ATOM	10549	CA	ILE	X	863	37.749	60.839	108.468	1.00	0.00	C
ATOM	10550	HA	ILE	X	863	36.992	61.420	107.942	1.00	0.00	H
ATOM	10551	CB	ILE	X	863	38.709	60.300	107.382	1.00	0.00	C
ATOM	10552	HB	ILE	X	863	39.506	59.700	107.819	1.00	0.00	H
ATOM	10553	CG2	ILE	X	863	38.137	59.256	106.409	1.00	0.00	C
ATOM	10554	HG21	ILE	X	863	37.237	58.814	106.836	1.00	0.00	H
ATOM	10555	HG22	ILE	X	863	37.833	59.711	105.466	1.00	0.00	H
ATOM	10556	HG23	ILE	X	863	38.711	58.347	106.236	1.00	0.00	H
ATOM	10557	CG1	ILE	X	863	39.363	61.501	106.607	1.00	0.00	C
ATOM	10558	HG12	ILE	X	863	38.676	61.776	105.806	1.00	0.00	H
ATOM	10559	HG13	ILE	X	863	39.508	62.312	107.319	1.00	0.00	H
ATOM	10560	CD1	ILE	X	863	40.691	61.283	106.018	1.00	0.00	C
ATOM	10561	HD11	ILE	X	863	40.947	62.157	105.418	1.00	0.00	H
ATOM	10562	HD12	ILE	X	863	41.420	61.054	106.795	1.00	0.00	H
ATOM	10563	HD13	ILE	X	863	40.667	60.441	105.327	1.00	0.00	H
ATOM	10564	C	ILE	X	863	37.010	59.783	109.294	1.00	0.00	C
ATOM	10565	O	ILE	X	863	37.652	59.022	110.035	1.00	0.00	O
ATOM	10566	N	THR	X	864	35.691	59.524	109.073	1.00	0.00	N
ATOM	10567	H	THR	X	864	35.247	60.012	108.309	1.00	0.00	H
ATOM	10568	CA	THR	X	864	34.884	58.359	109.674	1.00	0.00	C
ATOM	10569	HA	THR	X	864	35.225	58.232	110.702	1.00	0.00	H
ATOM	10570	CB	THR	X	864	33.358	58.715	109.716	1.00	0.00	C
ATOM	10571	HB	THR	X	864	32.865	57.987	110.360	1.00	0.00	H
ATOM	10572	CG2	THR	X	864	33.253	60.064	110.380	1.00	0.00	C
ATOM	10573	HG21	THR	X	864	33.869	60.112	111.277	1.00	0.00	H
ATOM	10574	HG22	THR	X	864	33.606	60.817	109.674	1.00	0.00	H
ATOM	10575	HG23	THR	X	864	32.244	60.153	110.780	1.00	0.00	H
ATOM	10576	OG1	THR	X	864	32.947	58.697	108.412	1.00	0.00	O

ATOM	10577	HG1	THR	X	864	32.083	59.112	108.354	1.00	0.00	H
ATOM	10578	C	THR	X	864	35.057	57.049	108.885	1.00	0.00	C
ATOM	10579	O	THR	X	864	35.599	56.986	107.776	1.00	0.00	O
ATOM	10580	N	ALA	X	865	34.488	55.942	109.426	1.00	0.00	N
ATOM	10581	H	ALA	X	865	33.964	55.980	110.289	1.00	0.00	H
ATOM	10582	CA	ALA	X	865	34.411	54.669	108.693	1.00	0.00	C
ATOM	10583	HA	ALA	X	865	35.424	54.289	108.565	1.00	0.00	H
ATOM	10584	CB	ALA	X	865	33.562	53.704	109.558	1.00	0.00	C
ATOM	10585	HB1	ALA	X	865	34.075	53.327	110.443	1.00	0.00	H
ATOM	10586	HB2	ALA	X	865	32.578	54.150	109.697	1.00	0.00	H
ATOM	10587	HB3	ALA	X	865	33.372	52.772	109.023	1.00	0.00	H
ATOM	10588	C	ALA	X	865	33.785	54.783	107.249	1.00	0.00	C
ATOM	10589	O	ALA	X	865	34.023	54.040	106.323	1.00	0.00	O
ATOM	10590	N	GLU	X	866	32.885	55.784	107.133	1.00	0.00	N
ATOM	10591	H	GLU	X	866	32.915	56.436	107.902	1.00	0.00	H
ATOM	10592	CA	GLU	X	866	32.122	56.182	105.937	1.00	0.00	C
ATOM	10593	HA	GLU	X	866	31.728	55.269	105.489	1.00	0.00	H
ATOM	10594	CB	GLU	X	866	30.872	56.932	106.344	1.00	0.00	C
ATOM	10595	HB2	GLU	X	866	31.016	57.999	106.180	1.00	0.00	H
ATOM	10596	HB3	GLU	X	866	30.162	56.759	105.535	1.00	0.00	H
ATOM	10597	CG	GLU	X	866	30.118	56.670	107.687	1.00	0.00	C
ATOM	10598	HG2	GLU	X	866	30.708	57.156	108.463	1.00	0.00	H
ATOM	10599	HG3	GLU	X	866	29.196	57.239	107.560	1.00	0.00	H
ATOM	10600	CD	GLU	X	866	29.836	55.215	107.990	1.00	0.00	C
ATOM	10601	OE1	GLU	X	866	29.576	55.061	109.175	1.00	0.00	O
ATOM	10602	OE2	GLU	X	866	29.548	54.421	107.023	1.00	0.00	O
ATOM	10603	C	GLU	X	866	32.982	56.892	104.972	1.00	0.00	C
ATOM	10604	O	GLU	X	866	33.110	56.378	103.858	1.00	0.00	O
ATOM	10605	N	GLY	X	867	33.767	57.885	105.420	1.00	0.00	N
ATOM	10606	H	GLY	X	867	33.605	58.205	106.364	1.00	0.00	H
ATOM	10607	CA	GLY	X	867	35.006	58.279	104.693	1.00	0.00	C
ATOM	10608	HA2	GLY	X	867	34.625	58.887	103.872	1.00	0.00	H
ATOM	10609	HA3	GLY	X	867	35.456	58.930	105.443	1.00	0.00	H
ATOM	10610	C	GLY	X	867	36.010	57.238	104.277	1.00	0.00	C
ATOM	10611	O	GLY	X	867	36.634	57.299	103.204	1.00	0.00	O
ATOM	10612	N	ALA	X	868	36.224	56.212	105.195	1.00	0.00	N
ATOM	10613	H	ALA	X	868	35.724	56.176	106.071	1.00	0.00	H
ATOM	10614	CA	ALA	X	868	37.049	55.104	104.841	1.00	0.00	C
ATOM	10615	HA	ALA	X	868	37.991	55.458	104.424	1.00	0.00	H
ATOM	10616	CB	ALA	X	868	37.274	54.368	106.152	1.00	0.00	C
ATOM	10617	HB1	ALA	X	868	36.396	54.016	106.694	1.00	0.00	H
ATOM	10618	HB2	ALA	X	868	37.822	53.439	105.983	1.00	0.00	H
ATOM	10619	HB3	ALA	X	868	37.784	54.966	106.906	1.00	0.00	H
ATOM	10620	C	ALA	X	868	36.515	54.217	103.724	1.00	0.00	C
ATOM	10621	O	ALA	X	868	37.375	53.814	102.882	1.00	0.00	O
ATOM	10622	N	GLN	X	869	35.232	53.892	103.638	1.00	0.00	N
ATOM	10623	H	GLN	X	869	34.662	54.298	104.368	1.00	0.00	H
ATOM	10624	CA	GLN	X	869	34.557	53.271	102.483	1.00	0.00	C
ATOM	10625	HA	GLN	X	869	35.062	52.311	102.379	1.00	0.00	H
ATOM	10626	CB	GLN	X	869	33.037	53.026	102.833	1.00	0.00	C
ATOM	10627	HB2	GLN	X	869	32.965	52.526	103.798	1.00	0.00	H
ATOM	10628	HB3	GLN	X	869	32.510	53.969	102.976	1.00	0.00	H
ATOM	10629	CG	GLN	X	869	32.230	52.213	101.756	1.00	0.00	C
ATOM	10630	HG2	GLN	X	869	31.173	52.197	102.019	1.00	0.00	H
ATOM	10631	HG3	GLN	X	869	32.334	52.749	100.812	1.00	0.00	H
ATOM	10632	CD	GLN	X	869	32.752	50.841	101.560	1.00	0.00	C
ATOM	10633	OE1	GLN	X	869	32.141	49.867	102.050	1.00	0.00	O
ATOM	10634	NE2	GLN	X	869	33.813	50.631	100.812	1.00	0.00	N
ATOM	10635	HE21	GLN	X	869	34.083	49.666	100.684	1.00	0.00	H
ATOM	10636	HE22	GLN	X	869	34.224	51.463	100.411	1.00	0.00	H
ATOM	10637	C	GLN	X	869	34.791	53.954	101.153	1.00	0.00	C
ATOM	10638	O	GLN	X	869	34.919	53.302	100.135	1.00	0.00	O
ATOM	10639	N	VAL	X	870	34.859	55.284	101.167	1.00	0.00	N
ATOM	10640	H	VAL	X	870	34.777	55.698	102.086	1.00	0.00	H
ATOM	10641	CA	VAL	X	870	35.076	56.180	100.001	1.00	0.00	C
ATOM	10642	HA	VAL	X	870	34.506	55.910	99.111	1.00	0.00	H
ATOM	10643	CB	VAL	X	870	34.709	57.621	100.409	1.00	0.00	C
ATOM	10644	HB	VAL	X	870	35.297	57.920	101.277	1.00	0.00	H
ATOM	10645	CG1	VAL	X	870	35.106	58.776	99.355	1.00	0.00	C
ATOM	10646	HG11	VAL	X	870	34.809	59.733	99.784	1.00	0.00	H
ATOM	10647	HG12	VAL	X	870	36.165	58.775	99.101	1.00	0.00	H
ATOM	10648	HG13	VAL	X	870	34.589	58.530	98.427	1.00	0.00	H
ATOM	10649	CG2	VAL	X	870	33.264	57.740	100.772	1.00	0.00	C
ATOM	10650	HG21	VAL	X	870	32.944	57.237	101.684	1.00	0.00	H
ATOM	10651	HG22	VAL	X	870	32.977	58.792	100.772	1.00	0.00	H
ATOM	10652	HG23	VAL	X	870	32.603	57.425	99.962	1.00	0.00	H
ATOM	10653	C	VAL	X	870	36.578	56.054	99.520	1.00	0.00	C
ATOM	10654	O	VAL	X	870	36.818	55.716	98.321	1.00	0.00	O
ATOM	10655	N	LEU	X	871	37.537	56.083	100.366	1.00	0.00	N
ATOM	10656	H	LEU	X	871	37.291	56.305	101.320	1.00	0.00	H
ATOM	10657	CA	LEU	X	871	38.947	55.755	100.158	1.00	0.00	C
ATOM	10658	HA	LEU	X	871	39.168	56.323	99.255	1.00	0.00	H

ATOM	10659	CB	LEU	X	871	39.864	56.065	101.358	1.00	0.00	C
ATOM	10660	HB2	LEU	X	871	39.565	55.490	102.234	1.00	0.00	H
ATOM	10661	HB3	LEU	X	871	40.862	55.693	101.123	1.00	0.00	H
ATOM	10662	CG	LEU	X	871	39.925	57.556	101.688	1.00	0.00	C
ATOM	10663	HG	LEU	X	871	38.926	57.966	101.544	1.00	0.00	H
ATOM	10664	CD1	LEU	X	871	40.272	57.842	103.138	1.00	0.00	C
ATOM	10665	HD11	LEU	X	871	39.545	57.406	103.826	1.00	0.00	H
ATOM	10666	HD12	LEU	X	871	41.258	57.410	103.310	1.00	0.00	H
ATOM	10667	HD13	LEU	X	871	40.290	58.910	103.350	1.00	0.00	H
ATOM	10668	CD2	LEU	X	871	40.879	58.251	100.716	1.00	0.00	C
ATOM	10669	HD21	LEU	X	871	40.665	59.320	100.749	1.00	0.00	H
ATOM	10670	HD22	LEU	X	871	41.887	58.208	101.128	1.00	0.00	H
ATOM	10671	HD23	LEU	X	871	40.792	57.919	99.682	1.00	0.00	H
ATOM	10672	C	LEU	X	871	39.040	54.289	99.713	1.00	0.00	C
ATOM	10673	O	LEU	X	871	39.740	54.006	98.749	1.00	0.00	O
ATOM	10674	N	ALA	X	872	38.235	53.323	100.206	1.00	0.00	N
ATOM	10675	H	ALA	X	872	37.743	53.575	101.052	1.00	0.00	H
ATOM	10676	CA	ALA	X	872	38.172	51.962	99.631	1.00	0.00	C
ATOM	10677	HA	ALA	X	872	39.197	51.594	99.567	1.00	0.00	H
ATOM	10678	CB	ALA	X	872	37.430	51.035	100.689	1.00	0.00	C
ATOM	10679	HB1	ALA	X	872	36.640	51.660	101.106	1.00	0.00	H
ATOM	10680	HB2	ALA	X	872	37.037	50.146	100.195	1.00	0.00	H
ATOM	10681	HB3	ALA	X	872	38.123	50.763	101.485	1.00	0.00	H
ATOM	10682	C	ALA	X	872	37.520	51.946	98.211	1.00	0.00	C
ATOM	10683	O	ALA	X	872	38.118	51.322	97.343	1.00	0.00	O
ATOM	10684	N	GLU	X	873	36.431	52.586	97.918	1.00	0.00	N
ATOM	10685	H	GLU	X	873	35.818	53.001	98.606	1.00	0.00	H
ATOM	10686	CA	GLU	X	873	35.879	52.627	96.556	1.00	0.00	C
ATOM	10687	HA	GLU	X	873	35.720	51.615	96.182	1.00	0.00	H
ATOM	10688	CB	GLU	X	873	34.551	53.493	96.616	1.00	0.00	C
ATOM	10689	HB2	GLU	X	873	33.929	52.965	97.338	1.00	0.00	H
ATOM	10690	HB3	GLU	X	873	34.869	54.436	97.061	1.00	0.00	H
ATOM	10691	CG	GLU	X	873	33.675	53.793	95.399	1.00	0.00	C
ATOM	10692	HG2	GLU	X	873	32.667	54.071	95.701	1.00	0.00	H
ATOM	10693	HG3	GLU	X	873	34.113	54.647	94.882	1.00	0.00	H
ATOM	10694	CD	GLU	X	873	33.525	52.606	94.483	1.00	0.00	C
ATOM	10695	OE1	GLU	X	873	33.692	51.441	94.836	1.00	0.00	O
ATOM	10696	OE2	GLU	X	873	33.158	52.818	93.331	1.00	0.00	O
ATOM	10697	C	GLU	X	873	36.893	53.246	95.547	1.00	0.00	C
ATOM	10698	O	GLU	X	873	36.908	52.829	94.425	1.00	0.00	O
ATOM	10699	N	GLY	X	874	37.809	54.143	95.946	1.00	0.00	N
ATOM	10700	H	GLY	X	874	37.689	54.554	96.861	1.00	0.00	H
ATOM	10701	CA	GLY	X	874	38.923	54.455	95.116	1.00	0.00	C
ATOM	10702	HA2	GLY	X	874	38.618	54.733	94.107	1.00	0.00	H
ATOM	10703	HA3	GLY	X	874	39.455	55.276	95.596	1.00	0.00	H
ATOM	10704	C	GLY	X	874	39.965	53.343	94.943	1.00	0.00	C
ATOM	10705	O	GLY	X	874	40.390	53.078	93.839	1.00	0.00	O
ATOM	10706	N	LEU	X	875	40.373	52.714	96.073	1.00	0.00	N
ATOM	10707	H	LEU	X	875	39.851	52.872	96.922	1.00	0.00	H
ATOM	10708	CA	LEU	X	875	41.468	51.700	96.127	1.00	0.00	C
ATOM	10709	HA	LEU	X	875	42.258	52.181	95.549	1.00	0.00	H
ATOM	10710	CB	LEU	X	875	41.819	51.331	97.632	1.00	0.00	C
ATOM	10711	HB2	LEU	X	875	40.935	51.056	98.206	1.00	0.00	H
ATOM	10712	HB3	LEU	X	875	42.360	50.399	97.480	1.00	0.00	H
ATOM	10713	CG	LEU	X	875	42.682	52.366	98.382	1.00	0.00	C
ATOM	10714	HG	LEU	X	875	42.206	53.319	98.147	1.00	0.00	H
ATOM	10715	CD1	LEU	X	875	42.532	52.025	99.903	1.00	0.00	C
ATOM	10716	HD11	LEU	X	875	43.362	52.533	100.395	1.00	0.00	H
ATOM	10717	HD12	LEU	X	875	41.582	52.368	100.311	1.00	0.00	H
ATOM	10718	HD13	LEU	X	875	42.771	50.976	100.074	1.00	0.00	H
ATOM	10719	CD2	LEU	X	875	44.201	52.259	98.124	1.00	0.00	C
ATOM	10720	HD21	LEU	X	875	44.626	51.438	98.701	1.00	0.00	H
ATOM	10721	HD22	LEU	X	875	44.393	52.264	97.051	1.00	0.00	H
ATOM	10722	HD23	LEU	X	875	44.794	53.148	98.344	1.00	0.00	H
ATOM	10723	C	LEU	X	875	41.061	50.428	95.336	1.00	0.00	C
ATOM	10724	O	LEU	X	875	41.961	49.895	94.713	1.00	0.00	O
ATOM	10725	N	ARG	X	876	39.832	49.997	95.444	1.00	0.00	N
ATOM	10726	H	ARG	X	876	39.156	50.416	96.066	1.00	0.00	H
ATOM	10727	CA	ARG	X	876	39.275	48.951	94.559	1.00	0.00	C
ATOM	10728	HA	ARG	X	876	39.748	48.016	94.859	1.00	0.00	H
ATOM	10729	CB	ARG	X	876	37.775	48.803	95.026	1.00	0.00	C
ATOM	10730	HB2	ARG	X	876	37.786	48.990	96.100	1.00	0.00	H
ATOM	10731	HB3	ARG	X	876	37.268	49.709	94.698	1.00	0.00	H
ATOM	10732	CG	ARG	X	876	37.101	47.453	94.703	1.00	0.00	C
ATOM	10733	HG2	ARG	X	876	37.765	46.677	95.086	1.00	0.00	H
ATOM	10734	HG3	ARG	X	876	36.138	47.414	95.212	1.00	0.00	H
ATOM	10735	CD	ARG	X	876	36.698	47.171	93.217	1.00	0.00	C
ATOM	10736	HD2	ARG	X	876	37.498	46.730	92.624	1.00	0.00	H
ATOM	10737	HD3	ARG	X	876	35.869	46.464	93.250	1.00	0.00	H
ATOM	10738	NE	ARG	X	876	36.213	48.410	92.465	1.00	0.00	N
ATOM	10739	HE	ARG	X	876	36.782	48.720	91.690	1.00	0.00	H
ATOM	10740	CZ	ARG	X	876	35.290	49.300	92.862	1.00	0.00	C

ATOM	10741	NH1	ARG	X	876	34.411	49.113	93.805	1.00	0.00	N
ATOM	10742	HH11	ARG	X	876	34.129	48.207	94.151	1.00	0.00	H
ATOM	10743	HH12	ARG	X	876	33.827	49.925	93.948	1.00	0.00	H
ATOM	10744	NH2	ARG	X	876	35.160	50.437	92.288	1.00	0.00	N
ATOM	10745	HH21	ARG	X	876	35.843	50.703	91.593	1.00	0.00	H
ATOM	10746	HH22	ARG	X	876	34.611	51.156	92.738	1.00	0.00	H
ATOM	10747	C	ARG	X	876	39.521	49.109	93.081	1.00	0.00	C
ATOM	10748	O	ARG	X	876	39.791	48.100	92.406	1.00	0.00	O
ATOM	10749	N	ASP	X	877	39.534	50.315	92.510	1.00	0.00	N
ATOM	10750	H	ASP	X	877	39.377	51.100	93.127	1.00	0.00	H
ATOM	10751	CA	ASP	X	877	40.000	50.555	91.120	1.00	0.00	C
ATOM	10752	HA	ASP	X	877	39.737	49.609	90.647	1.00	0.00	H
ATOM	10753	CB	ASP	X	877	39.190	51.639	90.370	1.00	0.00	C
ATOM	10754	HB2	ASP	X	877	39.337	52.625	90.812	1.00	0.00	H
ATOM	10755	HB3	ASP	X	877	39.484	51.729	89.324	1.00	0.00	H
ATOM	10756	CG	ASP	X	877	37.701	51.294	90.510	1.00	0.00	C
ATOM	10757	OD1	ASP	X	877	37.355	50.112	90.403	1.00	0.00	O
ATOM	10758	OD2	ASP	X	877	36.836	52.202	90.583	1.00	0.00	O
ATOM	10759	C	ASP	X	877	41.493	50.832	90.952	1.00	0.00	C
ATOM	10760	O	ASP	X	877	42.098	50.698	89.845	1.00	0.00	O
ATOM	10761	N	ASN	X	878	42.135	51.099	92.080	1.00	0.00	N
ATOM	10762	H	ASN	X	878	41.588	51.081	92.928	1.00	0.00	H
ATOM	10763	CA	ASN	X	878	43.567	51.262	92.094	1.00	0.00	C
ATOM	10764	HA	ASN	X	878	43.853	51.827	91.207	1.00	0.00	H
ATOM	10765	CB	ASN	X	878	43.993	52.044	93.329	1.00	0.00	C
ATOM	10766	HB2	ASN	X	878	43.363	52.892	93.596	1.00	0.00	H
ATOM	10767	HB3	ASN	X	878	43.925	51.553	94.300	1.00	0.00	H
ATOM	10768	CG	ASN	X	878	45.458	52.561	93.214	1.00	0.00	C
ATOM	10769	OD1	ASN	X	878	46.367	51.899	93.572	1.00	0.00	O
ATOM	10770	ND2	ASN	X	878	45.676	53.719	92.606	1.00	0.00	N
ATOM	10771	HD21	ASN	X	878	46.639	53.979	92.444	1.00	0.00	H
ATOM	10772	HD22	ASN	X	878	44.887	54.301	92.362	1.00	0.00	H
ATOM	10773	C	ASN	X	878	44.401	50.002	91.929	1.00	0.00	C
ATOM	10774	O	ASN	X	878	44.197	48.985	92.603	1.00	0.00	O
ATOM	10775	N	SER	X	879	45.453	50.118	91.123	1.00	0.00	N
ATOM	10776	H	SER	X	879	45.546	50.960	90.572	1.00	0.00	H
ATOM	10777	CA	SER	X	879	46.520	49.024	90.996	1.00	0.00	C
ATOM	10778	HA	SER	X	879	46.464	48.464	91.929	1.00	0.00	H
ATOM	10779	CB	SER	X	879	46.221	48.129	89.754	1.00	0.00	C
ATOM	10780	HB2	SER	X	879	47.187	47.666	89.554	1.00	0.00	H
ATOM	10781	HB3	SER	X	879	45.521	47.301	89.870	1.00	0.00	H
ATOM	10782	OG	SER	X	879	45.943	48.897	88.637	1.00	0.00	O
ATOM	10783	HG	SER	X	879	45.081	49.298	88.770	1.00	0.00	H
ATOM	10784	C	SER	X	879	47.949	49.529	91.035	1.00	0.00	C
ATOM	10785	O	SER	X	879	48.887	48.729	91.019	1.00	0.00	O
ATOM	10786	N	SER	X	880	48.184	50.832	91.025	1.00	0.00	N
ATOM	10787	H	SER	X	880	47.387	51.428	90.854	1.00	0.00	H
ATOM	10788	CA	SER	X	880	49.529	51.461	90.889	1.00	0.00	C
ATOM	10789	HA	SER	X	880	50.168	50.684	90.471	1.00	0.00	H
ATOM	10790	CB	SER	X	880	49.333	52.669	90.064	1.00	0.00	C
ATOM	10791	HB2	SER	X	880	48.381	53.161	90.260	1.00	0.00	H
ATOM	10792	HB3	SER	X	880	50.181	53.302	90.325	1.00	0.00	H
ATOM	10793	OG	SER	X	880	49.288	52.267	88.722	1.00	0.00	O
ATOM	10794	HG	SER	X	880	49.998	52.638	88.191	1.00	0.00	H
ATOM	10795	C	SER	X	880	50.029	51.907	92.262	1.00	0.00	C
ATOM	10796	O	SER	X	880	51.231	52.124	92.358	1.00	0.00	O
ATOM	10797	N	LEU	X	881	49.217	52.028	93.336	1.00	0.00	N
ATOM	10798	H	LEU	X	881	48.221	52.046	93.173	1.00	0.00	H
ATOM	10799	CA	LEU	X	881	49.853	52.465	94.593	1.00	0.00	C
ATOM	10800	HA	LEU	X	881	50.470	53.347	94.424	1.00	0.00	H
ATOM	10801	CB	LEU	X	881	48.643	52.910	95.504	1.00	0.00	C
ATOM	10802	HB2	LEU	X	881	47.887	53.365	94.863	1.00	0.00	H
ATOM	10803	HB3	LEU	X	881	48.181	52.016	95.924	1.00	0.00	H
ATOM	10804	CG	LEU	X	881	48.982	53.866	96.614	1.00	0.00	C
ATOM	10805	HG	LEU	X	881	49.994	53.768	97.005	1.00	0.00	H
ATOM	10806	CD1	LEU	X	881	48.932	55.375	96.144	1.00	0.00	C
ATOM	10807	HD11	LEU	X	881	49.557	55.551	95.269	1.00	0.00	H
ATOM	10808	HD12	LEU	X	881	47.913	55.642	95.864	1.00	0.00	H
ATOM	10809	HD13	LEU	X	881	49.243	56.037	96.953	1.00	0.00	H
ATOM	10810	CD2	LEU	X	881	48.030	53.653	97.799	1.00	0.00	C
ATOM	10811	HD21	LEU	X	881	48.235	54.426	98.540	1.00	0.00	H
ATOM	10812	HD22	LEU	X	881	47.050	53.965	97.437	1.00	0.00	H
ATOM	10813	HD23	LEU	X	881	48.116	52.658	98.236	1.00	0.00	H
ATOM	10814	C	LEU	X	881	50.714	51.485	95.333	1.00	0.00	C
ATOM	10815	O	LEU	X	881	50.267	50.494	95.827	1.00	0.00	O
ATOM	10816	N	GLN	X	882	52.006	51.777	95.528	1.00	0.00	N
ATOM	10817	H	GLN	X	882	52.245	52.673	95.130	1.00	0.00	H
ATOM	10818	CA	GLN	X	882	52.902	50.861	96.169	1.00	0.00	C
ATOM	10819	HA	GLN	X	882	52.520	49.878	95.894	1.00	0.00	H
ATOM	10820	CB	GLN	X	882	54.255	51.050	95.616	1.00	0.00	C
ATOM	10821	HB2	GLN	X	882	54.586	52.064	95.842	1.00	0.00	H
ATOM	10822	HB3	GLN	X	882	54.840	50.373	96.240	1.00	0.00	H

ATOM	10823	CG	GLN	X	882	54.407	50.562	94.162	1.00	0.00	C
ATOM	10824	HG2	GLN	X	882	54.262	49.485	94.064	1.00	0.00	H
ATOM	10825	HG3	GLN	X	882	53.661	51.063	93.545	1.00	0.00	H
ATOM	10826	CD	GLN	X	882	55.799	50.942	93.598	1.00	0.00	C
ATOM	10827	OE1	GLN	X	882	56.747	51.242	94.315	1.00	0.00	O
ATOM	10828	NE2	GLN	X	882	55.880	50.991	92.310	1.00	0.00	N
ATOM	10829	HE21	GLN	X	882	56.738	51.398	91.965	1.00	0.00	H
ATOM	10830	HE22	GLN	X	882	55.130	50.712	91.694	1.00	0.00	H
ATOM	10831	C	GLN	X	882	52.878	50.907	97.732	1.00	0.00	C
ATOM	10832	O	GLN	X	882	53.068	49.890	98.365	1.00	0.00	O
ATOM	10833	N	PHE	X	883	52.426	52.039	98.316	1.00	0.00	N
ATOM	10834	H	PHE	X	883	52.178	52.737	97.630	1.00	0.00	H
ATOM	10835	CA	PHE	X	883	52.466	52.472	99.703	1.00	0.00	C
ATOM	10836	HA	PHE	X	883	52.675	51.621	100.351	1.00	0.00	H
ATOM	10837	CB	PHE	X	883	53.662	53.435	100.008	1.00	0.00	C
ATOM	10838	HB2	PHE	X	883	53.528	54.389	99.498	1.00	0.00	H
ATOM	10839	HB3	PHE	X	883	53.584	53.580	101.085	1.00	0.00	H
ATOM	10840	CG	PHE	X	883	55.042	52.940	99.633	1.00	0.00	C
ATOM	10841	CD1	PHE	X	883	55.540	52.982	98.304	1.00	0.00	C
ATOM	10842	HD1	PHE	X	883	54.901	53.418	97.551	1.00	0.00	H
ATOM	10843	CE1	PHE	X	883	56.849	52.520	98.028	1.00	0.00	C
ATOM	10844	HE1	PHE	X	883	57.297	52.597	97.048	1.00	0.00	H
ATOM	10845	CZ	PHE	X	883	57.699	52.076	99.102	1.00	0.00	C
ATOM	10846	HZ	PHE	X	883	58.627	51.576	98.866	1.00	0.00	H
ATOM	10847	CE2	PHE	X	883	57.200	52.043	100.425	1.00	0.00	C
ATOM	10848	HE2	PHE	X	883	57.903	51.717	101.178	1.00	0.00	H
ATOM	10849	CD2	PHE	X	883	55.904	52.491	100.732	1.00	0.00	C
ATOM	10850	HD2	PHE	X	883	55.520	52.395	101.736	1.00	0.00	H
ATOM	10851	C	PHE	X	883	51.202	53.210	100.052	1.00	0.00	C
ATOM	10852	O	PHE	X	883	50.907	54.249	99.503	1.00	0.00	O
ATOM	10853	N	LEU	X	884	50.630	52.774	101.112	1.00	0.00	N
ATOM	10854	H	LEU	X	884	50.943	51.934	101.577	1.00	0.00	H
ATOM	10855	CA	LEU	X	884	49.457	53.368	101.724	1.00	0.00	C
ATOM	10856	HA	LEU	X	884	49.380	54.328	101.214	1.00	0.00	H
ATOM	10857	CB	LEU	X	884	48.181	52.528	101.557	1.00	0.00	C
ATOM	10858	HB2	LEU	X	884	48.026	52.397	100.486	1.00	0.00	H
ATOM	10859	HB3	LEU	X	884	48.367	51.501	101.870	1.00	0.00	H
ATOM	10860	CG	LEU	X	884	46.896	53.075	102.186	1.00	0.00	C
ATOM	10861	HG	LEU	X	884	47.020	53.041	103.267	1.00	0.00	H
ATOM	10862	CD1	LEU	X	884	46.642	54.500	101.626	1.00	0.00	C
ATOM	10863	HD11	LEU	X	884	45.659	54.790	101.996	1.00	0.00	H
ATOM	10864	HD12	LEU	X	884	47.392	55.125	102.111	1.00	0.00	H
ATOM	10865	HD13	LEU	X	884	46.767	54.641	100.552	1.00	0.00	H
ATOM	10866	CD2	LEU	X	884	45.684	52.287	101.757	1.00	0.00	C
ATOM	10867	HD21	LEU	X	884	45.784	51.241	102.048	1.00	0.00	H
ATOM	10868	HD22	LEU	X	884	44.780	52.811	102.067	1.00	0.00	H
ATOM	10869	HD23	LEU	X	884	45.627	52.372	100.673	1.00	0.00	H
ATOM	10870	C	LEU	X	884	49.609	53.698	103.242	1.00	0.00	C
ATOM	10871	O	LEU	X	884	49.901	52.803	104.032	1.00	0.00	O
ATOM	10872	N	GLY	X	885	49.506	54.928	103.667	1.00	0.00	N
ATOM	10873	H	GLY	X	885	49.147	55.656	103.067	1.00	0.00	H
ATOM	10874	CA	GLY	X	885	49.411	55.248	105.104	1.00	0.00	C
ATOM	10875	HA2	GLY	X	885	49.860	54.458	105.706	1.00	0.00	H
ATOM	10876	HA3	GLY	X	885	50.098	56.082	105.245	1.00	0.00	H
ATOM	10877	C	GLY	X	885	48.076	55.823	105.705	1.00	0.00	C
ATOM	10878	O	GLY	X	885	47.249	56.446	105.054	1.00	0.00	O
ATOM	10879	N	PHE	X	886	47.823	55.486	106.984	1.00	0.00	N
ATOM	10880	H	PHE	X	886	48.463	54.830	107.408	1.00	0.00	H
ATOM	10881	CA	PHE	X	886	46.634	55.781	107.751	1.00	0.00	C
ATOM	10882	HA	PHE	X	886	46.320	56.758	107.384	1.00	0.00	H
ATOM	10883	CB	PHE	X	886	45.501	54.751	107.551	1.00	0.00	C
ATOM	10884	HB2	PHE	X	886	45.713	54.041	106.752	1.00	0.00	H
ATOM	10885	HB3	PHE	X	886	45.333	54.158	108.451	1.00	0.00	H
ATOM	10886	CG	PHE	X	886	44.164	55.411	107.260	1.00	0.00	C
ATOM	10887	CD1	PHE	X	886	42.935	55.048	107.853	1.00	0.00	C
ATOM	10888	HD1	PHE	X	886	42.917	54.270	108.602	1.00	0.00	H
ATOM	10889	CE1	PHE	X	886	41.733	55.661	107.538	1.00	0.00	C
ATOM	10890	HE1	PHE	X	886	40.817	55.167	107.826	1.00	0.00	H
ATOM	10891	CZ	PHE	X	886	41.769	56.686	106.537	1.00	0.00	C
ATOM	10892	HZ	PHE	X	886	40.904	57.174	106.115	1.00	0.00	H
ATOM	10893	CE2	PHE	X	886	42.924	56.995	105.871	1.00	0.00	C
ATOM	10894	HE2	PHE	X	886	42.836	57.647	105.015	1.00	0.00	H
ATOM	10895	CD2	PHE	X	886	44.119	56.279	106.211	1.00	0.00	C
ATOM	10896	HD2	PHE	X	886	45.026	56.462	105.653	1.00	0.00	H
ATOM	10897	C	PHE	X	886	46.866	56.071	109.224	1.00	0.00	C
ATOM	10898	O	PHE	X	886	45.928	55.961	110.018	1.00	0.00	O
ATOM	10899	N	TRP	X	887	48.087	56.421	109.688	1.00	0.00	N
ATOM	10900	H	TRP	X	887	48.759	56.628	108.963	1.00	0.00	H
ATOM	10901	CA	TRP	X	887	48.566	56.705	111.038	1.00	0.00	C
ATOM	10902	HA	TRP	X	887	48.841	55.751	111.490	1.00	0.00	H
ATOM	10903	CB	TRP	X	887	49.861	57.515	110.999	1.00	0.00	C
ATOM	10904	HB2	TRP	X	887	50.549	57.330	110.173	1.00	0.00	H

ATOM	10905	HB3	TRP	X	887	49.635	58.580	110.942	1.00	0.00		H
ATOM	10906	CG	TRP	X	887	50.609	57.405	112.309	1.00	0.00		C
ATOM	10907	CD1	TRP	X	887	51.568	56.472	112.674	1.00	0.00		C
ATOM	10908	HD1	TRP	X	887	51.889	55.666	112.032	1.00	0.00		H
ATOM	10909	NE1	TRP	X	887	51.950	56.708	113.957	1.00	0.00		N
ATOM	10910	HE1	TRP	X	887	52.626	56.140	114.446	1.00	0.00		H
ATOM	10911	CE2	TRP	X	887	51.286	57.713	114.562	1.00	0.00		C
ATOM	10912	CZ2	TRP	X	887	51.292	58.320	115.874	1.00	0.00		C
ATOM	10913	HZ2	TRP	X	887	51.881	57.894	116.674	1.00	0.00		H
ATOM	10914	CH2	TRP	X	887	50.329	59.347	116.152	1.00	0.00		C
ATOM	10915	HH2	TRP	X	887	50.144	59.783	117.123	1.00	0.00		H
ATOM	10916	CZ3	TRP	X	887	49.392	59.750	115.116	1.00	0.00		C
ATOM	10917	HZ3	TRP	X	887	48.526	60.339	115.379	1.00	0.00		H
ATOM	10918	CE3	TRP	X	887	49.389	59.106	113.888	1.00	0.00		C
ATOM	10919	HE3	TRP	X	887	48.607	59.362	113.188	1.00	0.00		H
ATOM	10920	CD2	TRP	X	887	50.358	58.119	113.522	1.00	0.00		C
ATOM	10921	C	TRP	X	887	47.531	57.393	111.917	1.00	0.00		C
ATOM	10922	O	TRP	X	887	47.218	58.552	111.622	1.00	0.00		O
ATOM	10923	N	GLY	X	888	47.046	56.829	112.986	1.00	0.00		N
ATOM	10924	H	GLY	X	888	47.347	55.868	113.062	1.00	0.00		H
ATOM	10925	CA	GLY	X	888	46.188	57.546	113.958	1.00	0.00		C
ATOM	10926	HA2	GLY	X	888	45.908	56.902	114.792	1.00	0.00		H
ATOM	10927	HA3	GLY	X	888	46.851	58.234	114.484	1.00	0.00		H
ATOM	10928	C	GLY	X	888	44.842	58.108	113.383	1.00	0.00		C
ATOM	10929	O	GLY	X	888	44.251	58.977	114.046	1.00	0.00		O
ATOM	10930	N	ASN	X	889	44.299	57.657	112.266	1.00	0.00		N
ATOM	10931	H	ASN	X	889	44.820	57.003	111.702	1.00	0.00		H
ATOM	10932	CA	ASN	X	889	42.973	58.079	111.746	1.00	0.00		C
ATOM	10933	HA	ASN	X	889	43.040	59.153	111.921	1.00	0.00		H
ATOM	10934	CB	ASN	X	889	42.906	57.785	110.241	1.00	0.00		C
ATOM	10935	HB2	ASN	X	889	43.485	56.894	109.991	1.00	0.00		H
ATOM	10936	HB3	ASN	X	889	41.871	57.646	109.930	1.00	0.00		H
ATOM	10937	CG	ASN	X	889	43.348	59.039	109.431	1.00	0.00		C
ATOM	10938	OD1	ASN	X	889	43.703	60.100	109.893	1.00	0.00		O
ATOM	10939	ND2	ASN	X	889	43.474	58.961	108.099	1.00	0.00		N
ATOM	10940	HD21	ASN	X	889	43.847	59.747	107.586	1.00	0.00		H
ATOM	10941	HD22	ASN	X	889	43.446	58.126	107.531	1.00	0.00		H
ATOM	10942	C	ASN	X	889	41.763	57.431	112.451	1.00	0.00		C
ATOM	10943	O	ASN	X	889	40.653	57.923	112.353	1.00	0.00		O
ATOM	10944	N	LYS	X	890	42.039	56.349	113.212	1.00	0.00		N
ATOM	10945	H	LYS	X	890	43.009	56.086	113.114	1.00	0.00		H
ATOM	10946	CA	LYS	X	890	41.157	55.805	114.290	1.00	0.00		C
ATOM	10947	HA	LYS	X	890	41.667	54.926	114.687	1.00	0.00		H
ATOM	10948	CB	LYS	X	890	41.095	56.833	115.480	1.00	0.00		C
ATOM	10949	HB2	LYS	X	890	40.839	57.803	115.055	1.00	0.00		H
ATOM	10950	HB3	LYS	X	890	40.329	56.525	116.190	1.00	0.00		H
ATOM	10951	CG	LYS	X	890	42.311	56.916	116.432	1.00	0.00		C
ATOM	10952	HG2	LYS	X	890	42.729	55.926	116.615	1.00	0.00		H
ATOM	10953	HG3	LYS	X	890	43.175	57.313	115.900	1.00	0.00		H
ATOM	10954	CD	LYS	X	890	42.187	57.759	117.667	1.00	0.00		C
ATOM	10955	HD2	LYS	X	890	41.229	57.583	118.158	1.00	0.00		H
ATOM	10956	HD3	LYS	X	890	43.006	57.502	118.340	1.00	0.00		H
ATOM	10957	CE	LYS	X	890	42.190	59.285	117.327	1.00	0.00		C
ATOM	10958	HE2	LYS	X	890	41.362	59.365	116.623	1.00	0.00		H
ATOM	10959	HE3	LYS	X	890	41.916	59.950	118.146	1.00	0.00		H
ATOM	10960	NZ	LYS	X	890	43.474	59.707	116.722	1.00	0.00		N
ATOM	10961	HZ1	LYS	X	890	43.650	60.668	116.984	1.00	0.00		H
ATOM	10962	HZ2	LYS	X	890	44.102	58.993	117.058	1.00	0.00		H
ATOM	10963	HZ3	LYS	X	890	43.554	59.575	115.724	1.00	0.00		H
ATOM	10964	C	LYS	X	890	39.759	55.376	113.782	1.00	0.00		C
ATOM	10965	O	LYS	X	890	38.812	55.604	114.514	1.00	0.00		O
ATOM	10966	N	VAL	X	891	39.682	54.895	112.573	1.00	0.00		N
ATOM	10967	H	VAL	X	891	40.551	54.807	112.066	1.00	0.00		H
ATOM	10968	CA	VAL	X	891	38.414	54.552	111.909	1.00	0.00		C
ATOM	10969	HA	VAL	X	891	37.610	55.268	112.089	1.00	0.00		H
ATOM	10970	CB	VAL	X	891	38.746	54.409	110.427	1.00	0.00		C
ATOM	10971	HB	VAL	X	891	37.854	54.021	109.934	1.00	0.00		H
ATOM	10972	CG1	VAL	X	891	39.075	55.840	109.908	1.00	0.00		C
ATOM	10973	HG11	VAL	X	891	39.051	55.824	108.819	1.00	0.00		H
ATOM	10974	HG12	VAL	X	891	38.514	56.663	110.351	1.00	0.00		H
ATOM	10975	HG13	VAL	X	891	40.118	55.929	110.210	1.00	0.00		H
ATOM	10976	CG2	VAL	X	891	39.877	53.479	110.069	1.00	0.00		C
ATOM	10977	HG21	VAL	X	891	39.897	53.452	108.979	1.00	0.00		H
ATOM	10978	HG22	VAL	X	891	40.868	53.605	110.507	1.00	0.00		H
ATOM	10979	HG23	VAL	X	891	39.588	52.473	110.372	1.00	0.00		H
ATOM	10980	C	VAL	X	891	37.799	53.194	112.395	1.00	0.00		C
ATOM	10981	O	VAL	X	891	36.716	52.874	111.951	1.00	0.00		O
ATOM	10982	N	GLY	X	892	38.544	52.467	113.248	1.00	0.00		N
ATOM	10983	H	GLY	X	892	39.382	52.900	113.606	1.00	0.00		H
ATOM	10984	CA	GLY	X	892	38.270	51.050	113.747	1.00	0.00		C
ATOM	10985	HA2	GLY	X	892	38.894	50.763	114.593	1.00	0.00		H
ATOM	10986	HA3	GLY	X	892	37.234	51.021	114.087	1.00	0.00		H

ATOM	10987	C	GLY	X	892	38.345	49.891	112.782	1.00	0.00	C
ATOM	10988	O	GLY	X	892	38.644	50.138	111.607	1.00	0.00	O
ATOM	10989	N	ASP	X	893	37.910	48.724	113.218	1.00	0.00	N
ATOM	10990	H	ASP	X	893	37.621	48.769	114.186	1.00	0.00	H
ATOM	10991	CA	ASP	X	893	37.721	47.524	112.353	1.00	0.00	C
ATOM	10992	HA	ASP	X	893	38.701	47.179	112.022	1.00	0.00	H
ATOM	10993	CB	ASP	X	893	37.065	46.368	113.189	1.00	0.00	C
ATOM	10994	HB2	ASP	X	893	36.141	46.662	113.688	1.00	0.00	H
ATOM	10995	HB3	ASP	X	893	36.812	45.536	112.532	1.00	0.00	H
ATOM	10996	CG	ASP	X	893	37.999	45.743	114.166	1.00	0.00	C
ATOM	10997	OD1	ASP	X	893	37.837	46.083	115.365	1.00	0.00	O
ATOM	10998	OD2	ASP	X	893	38.920	45.012	113.670	1.00	0.00	O
ATOM	10999	C	ASP	X	893	37.029	47.805	110.998	1.00	0.00	C
ATOM	11000	O	ASP	X	893	37.607	47.491	110.007	1.00	0.00	O
ATOM	11001	N	LYS	X	894	35.859	48.429	111.051	1.00	0.00	N
ATOM	11002	H	LYS	X	894	35.560	48.688	111.980	1.00	0.00	H
ATOM	11003	CA	LYS	X	894	34.990	48.632	109.845	1.00	0.00	C
ATOM	11004	HA	LYS	X	894	34.666	47.664	109.459	1.00	0.00	H
ATOM	11005	CB	LYS	X	894	33.624	49.248	110.333	1.00	0.00	C
ATOM	11006	HB2	LYS	X	894	33.329	48.831	111.295	1.00	0.00	H
ATOM	11007	HB3	LYS	X	894	33.776	50.317	110.478	1.00	0.00	H
ATOM	11008	CG	LYS	X	894	32.536	48.989	109.292	1.00	0.00	C
ATOM	11009	HG2	LYS	X	894	32.671	49.662	108.446	1.00	0.00	H
ATOM	11010	HG3	LYS	X	894	32.577	47.938	109.004	1.00	0.00	H
ATOM	11011	CD	LYS	X	894	31.044	49.142	109.761	1.00	0.00	C
ATOM	11012	HD2	LYS	X	894	30.901	48.361	110.507	1.00	0.00	H
ATOM	11013	HD3	LYS	X	894	30.867	50.122	110.204	1.00	0.00	H
ATOM	11014	CE	LYS	X	894	30.014	48.803	108.640	1.00	0.00	C
ATOM	11015	HE2	LYS	X	894	29.892	49.648	107.963	1.00	0.00	H
ATOM	11016	HE3	LYS	X	894	30.325	47.965	108.016	1.00	0.00	H
ATOM	11017	NZ	LYS	X	894	28.755	48.478	109.313	1.00	0.00	N
ATOM	11018	HZ1	LYS	X	894	28.401	49.169	109.957	1.00	0.00	H
ATOM	11019	HZ2	LYS	X	894	28.072	48.085	108.682	1.00	0.00	H
ATOM	11020	HZ3	LYS	X	894	28.865	47.730	109.983	1.00	0.00	H
ATOM	11021	C	LYS	X	894	35.728	49.472	108.772	1.00	0.00	C
ATOM	11022	O	LYS	X	894	35.463	49.278	107.585	1.00	0.00	O
ATOM	11023	N	GLY	X	895	36.573	50.483	109.139	1.00	0.00	N
ATOM	11024	H	GLY	X	895	36.552	50.642	110.136	1.00	0.00	H
ATOM	11025	CA	GLY	X	895	37.341	51.209	108.133	1.00	0.00	C
ATOM	11026	HA2	GLY	X	895	36.824	51.451	107.203	1.00	0.00	H
ATOM	11027	HA3	GLY	X	895	37.786	52.093	108.593	1.00	0.00	H
ATOM	11028	C	GLY	X	895	38.684	50.451	107.835	1.00	0.00	C
ATOM	11029	O	GLY	X	895	39.145	50.499	106.729	1.00	0.00	O
ATOM	11030	N	ALA	X	896	39.286	49.725	108.806	1.00	0.00	N
ATOM	11031	H	ALA	X	896	38.893	49.563	109.721	1.00	0.00	H
ATOM	11032	CA	ALA	X	896	40.485	48.921	108.539	1.00	0.00	C
ATOM	11033	HA	ALA	X	896	41.228	49.622	108.159	1.00	0.00	H
ATOM	11034	CB	ALA	X	896	40.846	48.358	109.923	1.00	0.00	C
ATOM	11035	HB1	ALA	X	896	41.459	49.121	110.403	1.00	0.00	H
ATOM	11036	HB2	ALA	X	896	39.950	48.214	110.526	1.00	0.00	H
ATOM	11037	HB3	ALA	X	896	41.467	47.467	109.840	1.00	0.00	H
ATOM	11038	C	ALA	X	896	40.391	47.773	107.468	1.00	0.00	C
ATOM	11039	O	ALA	X	896	41.195	47.522	106.559	1.00	0.00	O
ATOM	11040	N	GLN	X	897	39.161	47.165	107.601	1.00	0.00	N
ATOM	11041	H	GLN	X	897	38.524	47.378	108.356	1.00	0.00	H
ATOM	11042	CA	GLN	X	897	38.629	46.095	106.791	1.00	0.00	C
ATOM	11043	HA	GLN	X	897	39.354	45.301	106.623	1.00	0.00	H
ATOM	11044	CB	GLN	X	897	37.510	45.414	107.530	1.00	0.00	C
ATOM	11045	HB2	GLN	X	897	37.883	44.804	108.351	1.00	0.00	H
ATOM	11046	HB3	GLN	X	897	37.059	46.297	107.981	1.00	0.00	H
ATOM	11047	CG	GLN	X	897	36.598	44.547	106.607	1.00	0.00	C
ATOM	11048	HG2	GLN	X	897	36.019	45.106	105.872	1.00	0.00	H
ATOM	11049	HG3	GLN	X	897	37.168	43.810	106.041	1.00	0.00	H
ATOM	11050	CD	GLN	X	897	35.465	43.862	107.435	1.00	0.00	C
ATOM	11051	OE1	GLN	X	897	34.808	44.525	108.240	1.00	0.00	O
ATOM	11052	NE2	GLN	X	897	35.279	42.565	107.277	1.00	0.00	N
ATOM	11053	HE21	GLN	X	897	34.436	42.188	107.689	1.00	0.00	H
ATOM	11054	HE22	GLN	X	897	35.790	42.059	106.569	1.00	0.00	H
ATOM	11055	C	GLN	X	897	38.236	46.631	105.351	1.00	0.00	C
ATOM	11056	O	GLN	X	897	38.410	45.905	104.429	1.00	0.00	O
ATOM	11057	N	ALA	X	898	37.661	47.845	105.392	1.00	0.00	N
ATOM	11058	H	ALA	X	898	37.345	48.366	106.199	1.00	0.00	H
ATOM	11059	CA	ALA	X	898	37.419	48.621	104.138	1.00	0.00	C
ATOM	11060	HA	ALA	X	898	36.623	48.179	103.539	1.00	0.00	H
ATOM	11061	CB	ALA	X	898	36.925	50.016	104.534	1.00	0.00	C
ATOM	11062	HB1	ALA	X	898	37.664	50.720	104.917	1.00	0.00	H
ATOM	11063	HB2	ALA	X	898	36.432	50.406	103.643	1.00	0.00	H
ATOM	11064	HB3	ALA	X	898	36.101	49.964	105.245	1.00	0.00	H
ATOM	11065	C	ALA	X	898	38.694	48.766	103.368	1.00	0.00	C
ATOM	11066	O	ALA	X	898	38.847	48.371	102.205	1.00	0.00	O
ATOM	11067	N	LEU	X	899	39.717	49.315	103.984	1.00	0.00	N
ATOM	11068	H	LEU	X	899	39.393	49.830	104.790	1.00	0.00	H

ATOM	11069	CA	LEU	X	899	41.111	49.558	103.391	1.00	0.00	C
ATOM	11070	HA	LEU	X	899	41.110	50.183	102.497	1.00	0.00	H
ATOM	11071	CB	LEU	X	899	41.910	50.379	104.460	1.00	0.00	C
ATOM	11072	HB2	LEU	X	899	41.893	49.817	105.393	1.00	0.00	H
ATOM	11073	HB3	LEU	X	899	42.946	50.413	104.124	1.00	0.00	H
ATOM	11074	CG	LEU	X	899	41.363	51.800	104.595	1.00	0.00	C
ATOM	11075	HG	LEU	X	899	40.305	51.812	104.853	1.00	0.00	H
ATOM	11076	CD1	LEU	X	899	42.021	52.476	105.776	1.00	0.00	C
ATOM	11077	HD11	LEU	X	899	43.092	52.590	105.603	1.00	0.00	H
ATOM	11078	HD12	LEU	X	899	41.433	53.379	105.944	1.00	0.00	H
ATOM	11079	HD13	LEU	X	899	41.841	51.927	106.701	1.00	0.00	H
ATOM	11080	CD2	LEU	X	899	41.626	52.622	103.256	1.00	0.00	C
ATOM	11081	HD21	LEU	X	899	42.665	52.500	102.949	1.00	0.00	H
ATOM	11082	HD22	LEU	X	899	40.968	52.245	102.473	1.00	0.00	H
ATOM	11083	HD23	LEU	X	899	41.333	53.668	103.356	1.00	0.00	H
ATOM	11084	C	LEU	X	899	41.847	48.231	102.939	1.00	0.00	C
ATOM	11085	O	LEU	X	899	42.281	48.043	101.802	1.00	0.00	O
ATOM	11086	N	ALA	X	900	41.767	47.162	103.746	1.00	0.00	N
ATOM	11087	H	ALA	X	900	41.327	47.302	104.644	1.00	0.00	H
ATOM	11088	CA	ALA	X	900	42.088	45.792	103.459	1.00	0.00	C
ATOM	11089	HA	ALA	X	900	43.137	45.859	103.168	1.00	0.00	H
ATOM	11090	CB	ALA	X	900	41.941	44.895	104.680	1.00	0.00	C
ATOM	11091	HB1	ALA	X	900	42.557	45.403	105.423	1.00	0.00	H
ATOM	11092	HB2	ALA	X	900	40.944	44.920	105.118	1.00	0.00	H
ATOM	11093	HB3	ALA	X	900	42.394	43.940	104.416	1.00	0.00	H
ATOM	11094	C	ALA	X	900	41.325	45.147	102.273	1.00	0.00	C
ATOM	11095	O	ALA	X	900	41.982	44.646	101.345	1.00	0.00	O
ATOM	11096	N	GLU	X	901	40.001	44.984	102.310	1.00	0.00	N
ATOM	11097	H	GLU	X	901	39.407	45.502	102.941	1.00	0.00	H
ATOM	11098	CA	GLU	X	901	39.235	44.208	101.333	1.00	0.00	C
ATOM	11099	HA	GLU	X	901	39.578	43.190	101.514	1.00	0.00	H
ATOM	11100	CB	GLU	X	901	37.782	44.200	101.745	1.00	0.00	C
ATOM	11101	HB2	GLU	X	901	37.467	45.201	102.044	1.00	0.00	H
ATOM	11102	HB3	GLU	X	901	37.113	43.786	100.992	1.00	0.00	H
ATOM	11103	CG	GLU	X	901	37.617	43.320	102.966	1.00	0.00	C
ATOM	11104	HG2	GLU	X	901	38.460	43.411	103.651	1.00	0.00	H
ATOM	11105	HG3	GLU	X	901	36.701	43.552	103.509	1.00	0.00	H
ATOM	11106	CD	GLU	X	901	37.367	41.838	102.471	1.00	0.00	C
ATOM	11107	OE1	GLU	X	901	36.732	41.091	103.254	1.00	0.00	O
ATOM	11108	OE2	GLU	X	901	37.873	41.435	101.345	1.00	0.00	O
ATOM	11109	C	GLU	X	901	39.417	44.854	99.916	1.00	0.00	C
ATOM	11110	O	GLU	X	901	39.460	44.099	98.976	1.00	0.00	O
ATOM	11111	N	ALA	X	902	39.506	46.180	99.793	1.00	0.00	N
ATOM	11112	H	ALA	X	902	39.622	46.636	100.687	1.00	0.00	H
ATOM	11113	CA	ALA	X	902	39.905	46.927	98.587	1.00	0.00	C
ATOM	11114	HA	ALA	X	902	39.149	46.695	97.837	1.00	0.00	H
ATOM	11115	CB	ALA	X	902	39.578	48.443	98.877	1.00	0.00	C
ATOM	11116	HB1	ALA	X	902	40.305	48.863	99.571	1.00	0.00	H
ATOM	11117	HB2	ALA	X	902	39.630	49.039	97.966	1.00	0.00	H
ATOM	11118	HB3	ALA	X	902	38.607	48.572	99.354	1.00	0.00	H
ATOM	11119	C	ALA	X	902	41.354	46.708	98.113	1.00	0.00	C
ATOM	11120	O	ALA	X	902	41.624	46.908	96.916	1.00	0.00	O
ATOM	11121	N	LEU	X	903	42.293	46.279	98.948	1.00	0.00	N
ATOM	11122	H	LEU	X	903	42.117	46.062	99.918	1.00	0.00	H
ATOM	11123	CA	LEU	X	903	43.633	46.043	98.530	1.00	0.00	C
ATOM	11124	HA	LEU	X	903	43.707	46.334	97.481	1.00	0.00	H
ATOM	11125	CB	LEU	X	903	44.600	46.803	99.472	1.00	0.00	C
ATOM	11126	HB2	LEU	X	903	44.333	46.506	100.486	1.00	0.00	H
ATOM	11127	HB3	LEU	X	903	45.634	46.514	99.290	1.00	0.00	H
ATOM	11128	CG	LEU	X	903	44.431	48.300	99.366	1.00	0.00	C
ATOM	11129	HG	LEU	X	903	43.376	48.575	99.314	1.00	0.00	H
ATOM	11130	CD1	LEU	X	903	45.161	48.884	100.596	1.00	0.00	C
ATOM	11131	HD11	LEU	X	903	46.228	48.660	100.573	1.00	0.00	H
ATOM	11132	HD12	LEU	X	903	45.119	49.967	100.490	1.00	0.00	H
ATOM	11133	HD13	LEU	X	903	44.838	48.499	101.562	1.00	0.00	H
ATOM	11134	CD2	LEU	X	903	45.053	48.767	98.018	1.00	0.00	C
ATOM	11135	HD21	LEU	X	903	45.435	49.787	97.992	1.00	0.00	H
ATOM	11136	HD22	LEU	X	903	45.921	48.144	97.799	1.00	0.00	H
ATOM	11137	HD23	LEU	X	903	44.289	48.727	97.240	1.00	0.00	H
ATOM	11138	C	LEU	X	903	43.925	44.535	98.526	1.00	0.00	C
ATOM	11139	O	LEU	X	903	45.035	44.149	98.259	1.00	0.00	O
ATOM	11140	N	SER	X	904	42.937	43.665	98.747	1.00	0.00	N
ATOM	11141	H	SER	X	904	42.021	44.089	98.784	1.00	0.00	H
ATOM	11142	CA	SER	X	904	43.086	42.240	98.993	1.00	0.00	C
ATOM	11143	HA	SER	X	904	43.900	42.152	99.713	1.00	0.00	H
ATOM	11144	CB	SER	X	904	41.792	41.719	99.652	1.00	0.00	C
ATOM	11145	HB2	SER	X	904	40.928	41.909	99.016	1.00	0.00	H
ATOM	11146	HB3	SER	X	904	41.778	40.629	99.629	1.00	0.00	H
ATOM	11147	OG	SER	X	904	41.667	42.034	101.043	1.00	0.00	O
ATOM	11148	HG	SER	X	904	41.919	42.956	100.952	1.00	0.00	H
ATOM	11149	C	SER	X	904	43.545	41.314	97.848	1.00	0.00	C
ATOM	11150	O	SER	X	904	43.825	40.187	98.088	1.00	0.00	O

ATOM	11151	N	ASP	X	905	43.618	41.877	96.642	1.00	0.00	N
ATOM	11152	H	ASP	X	905	43.065	42.719	96.577	1.00	0.00	H
ATOM	11153	CA	ASP	X	905	44.335	41.348	95.522	1.00	0.00	C
ATOM	11154	HA	ASP	X	905	45.009	40.570	95.881	1.00	0.00	H
ATOM	11155	CB	ASP	X	905	43.298	40.741	94.564	1.00	0.00	C
ATOM	11156	HB2	ASP	X	905	43.924	40.071	93.974	1.00	0.00	H
ATOM	11157	HB3	ASP	X	905	42.570	40.167	95.138	1.00	0.00	H
ATOM	11158	CG	ASP	X	905	42.409	41.611	93.685	1.00	0.00	C
ATOM	11159	OD1	ASP	X	905	41.520	41.061	93.046	1.00	0.00	O
ATOM	11160	OD2	ASP	X	905	42.494	42.836	93.714	1.00	0.00	O
ATOM	11161	C	ASP	X	905	45.290	42.354	94.784	1.00	0.00	C
ATOM	11162	O	ASP	X	905	45.613	42.042	93.643	1.00	0.00	O
ATOM	11163	N	HIE	X	906	45.543	43.528	95.371	1.00	0.00	N
ATOM	11164	H	HIE	X	906	45.250	43.646	96.330	1.00	0.00	H
ATOM	11165	CA	HIE	X	906	46.130	44.790	94.768	1.00	0.00	C
ATOM	11166	HA	HIE	X	906	45.471	45.014	93.929	1.00	0.00	H
ATOM	11167	CB	HIE	X	906	46.156	45.954	95.657	1.00	0.00	C
ATOM	11168	HB2	HIE	X	906	45.077	45.990	95.797	1.00	0.00	H
ATOM	11169	HB3	HIE	X	906	46.566	45.659	96.624	1.00	0.00	H
ATOM	11170	CG	HIE	X	906	46.764	47.189	95.051	1.00	0.00	C
ATOM	11171	ND1	HIE	X	906	48.114	47.428	94.820	1.00	0.00	N
ATOM	11172	CE1	HIE	X	906	48.226	48.695	94.364	1.00	0.00	C
ATOM	11173	HE1	HIE	X	906	49.154	49.239	94.271	1.00	0.00	H
ATOM	11174	NE2	HIE	X	906	46.991	49.219	94.397	1.00	0.00	N
ATOM	11175	HE2	HIE	X	906	46.843	50.203	94.224	1.00	0.00	H
ATOM	11176	CD2	HIE	X	906	46.048	48.301	94.760	1.00	0.00	C
ATOM	11177	HD2	HIE	X	906	44.998	48.532	94.854	1.00	0.00	H
ATOM	11178	C	HIE	X	906	47.499	44.487	94.119	1.00	0.00	C
ATOM	11179	O	HIE	X	906	48.481	44.154	94.717	1.00	0.00	O
ATOM	11180	N	GLN	X	907	47.555	44.886	92.835	1.00	0.00	N
ATOM	11181	H	GLN	X	907	46.749	45.256	92.351	1.00	0.00	H
ATOM	11182	CA	GLN	X	907	48.594	44.419	91.891	1.00	0.00	C
ATOM	11183	HA	GLN	X	907	48.451	43.339	91.927	1.00	0.00	H
ATOM	11184	CB	GLN	X	907	48.234	44.877	90.464	1.00	0.00	C
ATOM	11185	HB2	GLN	X	907	47.172	44.637	90.393	1.00	0.00	H
ATOM	11186	HB3	GLN	X	907	48.377	45.946	90.307	1.00	0.00	H
ATOM	11187	CG	GLN	X	907	48.918	44.079	89.391	1.00	0.00	C
ATOM	11188	HG2	GLN	X	907	49.980	44.310	89.474	1.00	0.00	H
ATOM	11189	HG3	GLN	X	907	48.752	43.003	89.441	1.00	0.00	H
ATOM	11190	CD	GLN	X	907	48.484	44.399	87.970	1.00	0.00	C
ATOM	11191	OE1	GLN	X	907	48.435	45.605	87.655	1.00	0.00	O
ATOM	11192	NE2	GLN	X	907	48.346	43.557	86.996	1.00	0.00	N
ATOM	11193	HE21	GLN	X	907	47.898	44.087	86.263	1.00	0.00	H
ATOM	11194	HE22	GLN	X	907	48.083	42.616	87.254	1.00	0.00	H
ATOM	11195	C	GLN	X	907	50.079	44.691	92.296	1.00	0.00	C
ATOM	11196	O	GLN	X	907	51.010	43.994	91.988	1.00	0.00	O
ATOM	11197	N	SER	X	908	50.267	45.797	93.010	1.00	0.00	N
ATOM	11198	H	SER	X	908	49.477	46.344	93.323	1.00	0.00	H
ATOM	11199	CA	SER	X	908	51.612	46.245	93.394	1.00	0.00	C
ATOM	11200	HA	SER	X	908	52.219	45.340	93.420	1.00	0.00	H
ATOM	11201	CB	SER	X	908	52.181	47.144	92.322	1.00	0.00	C
ATOM	11202	HB2	SER	X	908	53.200	47.422	92.593	1.00	0.00	H
ATOM	11203	HB3	SER	X	908	52.138	46.697	91.329	1.00	0.00	H
ATOM	11204	OG	SER	X	908	51.547	48.355	92.154	1.00	0.00	O
ATOM	11205	HG	SER	X	908	50.722	48.236	91.676	1.00	0.00	H
ATOM	11206	C	SER	X	908	51.843	46.821	94.799	1.00	0.00	C
ATOM	11207	O	SER	X	908	52.978	47.157	95.082	1.00	0.00	O
ATOM	11208	N	LEU	X	909	50.846	46.916	95.657	1.00	0.00	N
ATOM	11209	H	LEU	X	909	49.906	46.755	95.326	1.00	0.00	H
ATOM	11210	CA	LEU	X	909	50.918	47.373	97.044	1.00	0.00	C
ATOM	11211	HA	LEU	X	909	51.468	48.313	97.008	1.00	0.00	H
ATOM	11212	CB	LEU	X	909	49.540	47.628	97.682	1.00	0.00	C
ATOM	11213	HB2	LEU	X	909	49.078	48.262	96.924	1.00	0.00	H
ATOM	11214	HB3	LEU	X	909	49.043	46.668	97.820	1.00	0.00	H
ATOM	11215	CG	LEU	X	909	49.538	48.423	98.985	1.00	0.00	C
ATOM	11216	HG	LEU	X	909	50.547	48.757	99.227	1.00	0.00	H
ATOM	11217	CD1	LEU	X	909	48.723	49.697	98.850	1.00	0.00	C
ATOM	11218	HD11	LEU	X	909	48.848	50.305	99.746	1.00	0.00	H
ATOM	11219	HD12	LEU	X	909	48.986	50.249	97.948	1.00	0.00	H
ATOM	11220	HD13	LEU	X	909	47.659	49.487	98.744	1.00	0.00	H
ATOM	11221	CD2	LEU	X	909	49.067	47.552	100.084	1.00	0.00	C
ATOM	11222	HD21	LEU	X	909	49.785	46.768	100.318	1.00	0.00	H
ATOM	11223	HD22	LEU	X	909	49.106	48.264	100.908	1.00	0.00	H
ATOM	11224	HD23	LEU	X	909	48.067	47.116	100.062	1.00	0.00	H
ATOM	11225	C	LEU	X	909	51.847	46.485	97.841	1.00	0.00	C
ATOM	11226	O	LEU	X	909	51.564	45.320	98.091	1.00	0.00	O
ATOM	11227	N	LYS	X	910	52.923	47.057	98.362	1.00	0.00	N
ATOM	11228	H	LYS	X	910	53.062	48.038	98.161	1.00	0.00	H
ATOM	11229	CA	LYS	X	910	53.982	46.440	99.101	1.00	0.00	C
ATOM	11230	HA	LYS	X	910	53.782	45.369	99.112	1.00	0.00	H
ATOM	11231	CB	LYS	X	910	55.291	46.842	98.408	1.00	0.00	C
ATOM	11232	HB2	LYS	X	910	55.215	46.788	97.322	1.00	0.00	H

ATOM	11233	HB3	LYS	X	910	55.306	47.926	98.523	1.00	0.00	H
ATOM	11234	CG	LYS	X	910	56.603	46.199	98.941	1.00	0.00	C
ATOM	11235	HG2	LYS	X	910	57.094	46.875	99.643	1.00	0.00	H
ATOM	11236	HG3	LYS	X	910	56.348	45.336	99.557	1.00	0.00	H
ATOM	11237	CD	LYS	X	910	57.701	45.886	97.919	1.00	0.00	C
ATOM	11238	HD2	LYS	X	910	58.060	46.838	97.527	1.00	0.00	H
ATOM	11239	HD3	LYS	X	910	58.406	45.323	98.530	1.00	0.00	H
ATOM	11240	CE	LYS	X	910	57.241	45.051	96.782	1.00	0.00	C
ATOM	11241	HE2	LYS	X	910	56.365	45.485	96.298	1.00	0.00	H
ATOM	11242	HE3	LYS	X	910	58.021	45.177	96.033	1.00	0.00	H
ATOM	11243	NZ	LYS	X	910	57.016	43.613	97.207	1.00	0.00	N
ATOM	11244	HZ1	LYS	X	910	56.295	43.583	97.912	1.00	0.00	H
ATOM	11245	HZ2	LYS	X	910	56.979	42.946	96.450	1.00	0.00	H
ATOM	11246	HZ3	LYS	X	910	57.866	43.370	97.699	1.00	0.00	H
ATOM	11247	C	LYS	X	910	54.046	46.792	100.569	1.00	0.00	C
ATOM	11248	O	LYS	X	910	54.471	45.999	101.369	1.00	0.00	O
ATOM	11249	N	TRP	X	911	53.454	47.927	100.900	1.00	0.00	N
ATOM	11250	H	TRP	X	911	53.243	48.591	100.171	1.00	0.00	H
ATOM	11251	CA	TRP	X	911	53.523	48.554	102.207	1.00	0.00	C
ATOM	11252	HA	TRP	X	911	53.822	47.798	102.933	1.00	0.00	H
ATOM	11253	CB	TRP	X	911	54.593	49.630	102.232	1.00	0.00	C
ATOM	11254	HB2	TRP	X	911	55.531	49.256	101.821	1.00	0.00	H
ATOM	11255	HB3	TRP	X	911	54.191	50.321	101.492	1.00	0.00	H
ATOM	11256	CG	TRP	X	911	54.929	50.284	103.569	1.00	0.00	C
ATOM	11257	CD1	TRP	X	911	55.930	49.808	104.327	1.00	0.00	C
ATOM	11258	HD1	TRP	X	911	56.532	48.960	104.032	1.00	0.00	H
ATOM	11259	NE1	TRP	X	911	55.884	50.483	105.489	1.00	0.00	N
ATOM	11260	HE1	TRP	X	911	56.505	50.385	106.280	1.00	0.00	H
ATOM	11261	CE2	TRP	X	911	54.993	51.515	105.521	1.00	0.00	C
ATOM	11262	CZ2	TRP	X	911	54.736	52.571	106.404	1.00	0.00	C
ATOM	11263	HZ2	TRP	X	911	55.260	52.690	107.340	1.00	0.00	H
ATOM	11264	CH2	TRP	X	911	53.875	53.649	106.061	1.00	0.00	C
ATOM	11265	HH2	TRP	X	911	53.831	54.522	106.695	1.00	0.00	H
ATOM	11266	CZ3	TRP	X	911	53.237	53.539	104.847	1.00	0.00	C
ATOM	11267	HZ3	TRP	X	911	52.565	54.345	104.590	1.00	0.00	H
ATOM	11268	CE3	TRP	X	911	53.339	52.440	103.970	1.00	0.00	C
ATOM	11269	HE3	TRP	X	911	52.866	52.411	103.000	1.00	0.00	H
ATOM	11270	CD2	TRP	X	911	54.287	51.469	104.233	1.00	0.00	C
ATOM	11271	C	TRP	X	911	52.184	49.094	102.615	1.00	0.00	C
ATOM	11272	O	TRP	X	911	51.491	49.793	101.908	1.00	0.00	O
ATOM	11273	N	LEU	X	912	51.775	48.711	103.783	1.00	0.00	N
ATOM	11274	H	LEU	X	912	52.273	48.023	104.328	1.00	0.00	H
ATOM	11275	CA	LEU	X	912	50.581	49.241	104.471	1.00	0.00	C
ATOM	11276	HA	LEU	X	912	50.319	50.211	104.044	1.00	0.00	H
ATOM	11277	CB	LEU	X	912	49.357	48.331	104.159	1.00	0.00	C
ATOM	11278	HB2	LEU	X	912	49.070	48.480	103.119	1.00	0.00	H
ATOM	11279	HB3	LEU	X	912	49.712	47.307	104.281	1.00	0.00	H
ATOM	11280	CG	LEU	X	912	47.998	48.626	104.911	1.00	0.00	C
ATOM	11281	HG	LEU	X	912	48.059	48.371	105.970	1.00	0.00	H
ATOM	11282	CD1	LEU	X	912	47.543	50.023	104.735	1.00	0.00	C
ATOM	11283	HD11	LEU	X	912	47.347	50.131	103.668	1.00	0.00	H
ATOM	11284	HD12	LEU	X	912	46.696	50.269	105.376	1.00	0.00	H
ATOM	11285	HD13	LEU	X	912	48.283	50.730	105.109	1.00	0.00	H
ATOM	11286	CD2	LEU	X	912	46.918	47.727	104.295	1.00	0.00	C
ATOM	11287	HD21	LEU	X	912	45.970	47.842	104.817	1.00	0.00	H
ATOM	11288	HD22	LEU	X	912	46.934	47.833	103.210	1.00	0.00	H
ATOM	11289	HD23	LEU	X	912	47.109	46.665	104.450	1.00	0.00	H
ATOM	11290	C	LEU	X	912	50.693	49.501	105.998	1.00	0.00	C
ATOM	11291	O	LEU	X	912	50.768	48.576	106.835	1.00	0.00	O
ATOM	11292	N	SER	X	913	50.532	50.780	106.341	1.00	0.00	N
ATOM	11293	H	SER	X	913	50.371	51.403	105.562	1.00	0.00	H
ATOM	11294	CA	SER	X	913	50.424	51.305	107.665	1.00	0.00	C
ATOM	11295	HA	SER	X	913	50.710	50.478	108.316	1.00	0.00	H
ATOM	11296	CB	SER	X	913	51.401	52.363	108.003	1.00	0.00	C
ATOM	11297	HB2	SER	X	913	52.432	52.012	107.947	1.00	0.00	H
ATOM	11298	HB3	SER	X	913	51.265	53.203	107.320	1.00	0.00	H
ATOM	11299	OG	SER	X	913	51.056	52.775	109.293	1.00	0.00	O
ATOM	11300	HG	SER	X	913	51.724	53.453	109.422	1.00	0.00	H
ATOM	11301	C	SER	X	913	48.995	51.704	108.044	1.00	0.00	C
ATOM	11302	O	SER	X	913	48.364	52.625	107.540	1.00	0.00	O
ATOM	11303	N	LEU	X	914	48.416	51.003	109.056	1.00	0.00	N
ATOM	11304	H	LEU	X	914	48.976	50.282	109.488	1.00	0.00	H
ATOM	11305	CA	LEU	X	914	47.135	51.255	109.711	1.00	0.00	C
ATOM	11306	HA	LEU	X	914	46.619	52.161	109.390	1.00	0.00	H
ATOM	11307	CB	LEU	X	914	46.184	50.115	109.407	1.00	0.00	C
ATOM	11308	HB2	LEU	X	914	46.549	49.136	109.720	1.00	0.00	H
ATOM	11309	HB3	LEU	X	914	45.368	50.388	110.078	1.00	0.00	H
ATOM	11310	CG	LEU	X	914	45.694	49.995	107.977	1.00	0.00	C
ATOM	11311	HG	LEU	X	914	46.586	50.073	107.355	1.00	0.00	H
ATOM	11312	CD1	LEU	X	914	45.101	48.612	107.704	1.00	0.00	C
ATOM	11313	HD11	LEU	X	914	45.915	47.892	107.780	1.00	0.00	H
ATOM	11314	HD12	LEU	X	914	44.271	48.315	108.345	1.00	0.00	H

ATOM	11315	HD13	LEU	X	914	44.831	48.476	106.657	1.00	0.00	H
ATOM	11316	CD2	LEU	X	914	44.604	51.080	107.689	1.00	0.00	C
ATOM	11317	HD21	LEU	X	914	44.879	52.090	107.993	1.00	0.00	H
ATOM	11318	HD22	LEU	X	914	44.639	51.114	106.599	1.00	0.00	H
ATOM	11319	HD23	LEU	X	914	43.612	50.785	108.027	1.00	0.00	H
ATOM	11320	C	LEU	X	914	47.429	51.311	111.243	1.00	0.00	C
ATOM	11321	O	LEU	X	914	46.628	50.871	112.074	1.00	0.00	O
ATOM	11322	N	VAL	X	915	48.541	51.885	111.604	1.00	0.00	N
ATOM	11323	H	VAL	X	915	49.004	52.284	110.800	1.00	0.00	H
ATOM	11324	CA	VAL	X	915	48.960	52.210	113.038	1.00	0.00	C
ATOM	11325	HA	VAL	X	915	49.023	51.213	113.473	1.00	0.00	H
ATOM	11326	CB	VAL	X	915	50.343	52.951	113.126	1.00	0.00	C
ATOM	11327	HB	VAL	X	915	50.331	53.802	112.444	1.00	0.00	H
ATOM	11328	CG1	VAL	X	915	50.777	53.367	114.545	1.00	0.00	C
ATOM	11329	HG11	VAL	X	915	51.852	53.540	114.596	1.00	0.00	H
ATOM	11330	HG12	VAL	X	915	50.166	54.255	114.698	1.00	0.00	H
ATOM	11331	HG13	VAL	X	915	50.556	52.609	115.296	1.00	0.00	H
ATOM	11332	CG2	VAL	X	915	51.488	52.118	112.579	1.00	0.00	C
ATOM	11333	HG21	VAL	X	915	51.832	51.417	113.340	1.00	0.00	H
ATOM	11334	HG22	VAL	X	915	51.232	51.616	111.646	1.00	0.00	H
ATOM	11335	HG23	VAL	X	915	52.281	52.824	112.332	1.00	0.00	H
ATOM	11336	C	VAL	X	915	47.865	53.012	113.715	1.00	0.00	C
ATOM	11337	O	VAL	X	915	47.386	53.999	113.140	1.00	0.00	O
ATOM	11338	N	GLY	X	916	47.503	52.674	114.979	1.00	0.00	N
ATOM	11339	H	GLY	X	916	47.932	51.829	115.330	1.00	0.00	H
ATOM	11340	CA	GLY	X	916	46.709	53.501	115.842	1.00	0.00	C
ATOM	11341	HA2	GLY	X	916	46.618	53.064	116.836	1.00	0.00	H
ATOM	11342	HA3	GLY	X	916	47.182	54.476	115.962	1.00	0.00	H
ATOM	11343	C	GLY	X	916	45.205	53.606	115.377	1.00	0.00	C
ATOM	11344	O	GLY	X	916	44.662	54.684	115.675	1.00	0.00	O
ATOM	11345	N	ASN	X	917	44.592	52.669	114.656	1.00	0.00	N
ATOM	11346	H	ASN	X	917	45.082	51.784	114.636	1.00	0.00	H
ATOM	11347	CA	ASN	X	917	43.293	52.759	114.077	1.00	0.00	C
ATOM	11348	HA	ASN	X	917	43.000	53.810	114.080	1.00	0.00	H
ATOM	11349	CB	ASN	X	917	43.331	52.521	112.625	1.00	0.00	C
ATOM	11350	HB2	ASN	X	917	43.969	51.664	112.407	1.00	0.00	H
ATOM	11351	HB3	ASN	X	917	42.355	52.319	112.187	1.00	0.00	H
ATOM	11352	CG	ASN	X	917	43.833	53.638	111.794	1.00	0.00	C
ATOM	11353	OD1	ASN	X	917	43.007	54.460	111.319	1.00	0.00	O
ATOM	11354	ND2	ASN	X	917	45.115	53.739	111.481	1.00	0.00	N
ATOM	11355	HD21	ASN	X	917	45.434	54.512	110.915	1.00	0.00	H
ATOM	11356	HD22	ASN	X	917	45.777	53.171	111.993	1.00	0.00	H
ATOM	11357	C	ASN	X	917	42.166	52.023	114.852	1.00	0.00	C
ATOM	11358	O	ASN	X	917	41.091	51.899	114.293	1.00	0.00	O
ATOM	11359	N	ASN	X	918	42.377	51.751	116.121	1.00	0.00	N
ATOM	11360	H	ASN	X	918	43.149	52.151	116.636	1.00	0.00	H
ATOM	11361	CA	ASN	X	918	41.415	50.947	116.968	1.00	0.00	C
ATOM	11362	HA	ASN	X	918	41.964	50.836	117.903	1.00	0.00	H
ATOM	11363	CB	ASN	X	918	40.088	51.722	117.329	1.00	0.00	C
ATOM	11364	HB2	ASN	X	918	39.326	51.790	116.554	1.00	0.00	H
ATOM	11365	HB3	ASN	X	918	39.727	51.134	118.174	1.00	0.00	H
ATOM	11366	CG	ASN	X	918	40.383	53.179	117.655	1.00	0.00	C
ATOM	11367	OD1	ASN	X	918	40.306	54.010	116.795	1.00	0.00	O
ATOM	11368	ND2	ASN	X	918	40.624	53.464	118.914	1.00	0.00	N
ATOM	11369	HD21	ASN	X	918	40.946	54.395	119.136	1.00	0.00	H
ATOM	11370	HD22	ASN	X	918	40.536	52.727	119.599	1.00	0.00	H
ATOM	11371	C	ASN	X	918	41.124	49.466	116.680	1.00	0.00	C
ATOM	11372	O	ASN	X	918	40.163	48.935	117.165	1.00	0.00	O
ATOM	11373	N	ILE	X	919	41.946	48.800	115.844	1.00	0.00	N
ATOM	11374	H	ILE	X	919	42.890	49.153	115.779	1.00	0.00	H
ATOM	11375	CA	ILE	X	919	41.592	47.484	115.268	1.00	0.00	C
ATOM	11376	HA	ILE	X	919	40.567	47.440	114.901	1.00	0.00	H
ATOM	11377	CB	ILE	X	919	42.624	47.310	114.104	1.00	0.00	C
ATOM	11378	HB	ILE	X	919	43.615	47.298	114.558	1.00	0.00	H
ATOM	11379	CG2	ILE	X	919	42.375	45.903	113.445	1.00	0.00	C
ATOM	11380	HG21	ILE	X	919	41.474	45.970	112.835	1.00	0.00	H
ATOM	11381	HG22	ILE	X	919	43.181	45.746	112.729	1.00	0.00	H
ATOM	11382	HG23	ILE	X	919	42.511	45.107	114.177	1.00	0.00	H
ATOM	11383	CG1	ILE	X	919	42.625	48.452	113.063	1.00	0.00	C
ATOM	11384	HG12	ILE	X	919	41.717	48.510	112.466	1.00	0.00	H
ATOM	11385	HG13	ILE	X	919	42.640	49.431	113.543	1.00	0.00	H
ATOM	11386	CD1	ILE	X	919	43.821	48.326	112.078	1.00	0.00	C
ATOM	11387	HD11	ILE	X	919	44.245	49.324	111.978	1.00	0.00	H
ATOM	11388	HD12	ILE	X	919	44.619	47.671	112.427	1.00	0.00	H
ATOM	11389	HD13	ILE	X	919	43.440	47.982	111.117	1.00	0.00	H
ATOM	11390	C	ILE	X	919	41.716	46.397	116.339	1.00	0.00	C
ATOM	11391	O	ILE	X	919	42.643	46.544	117.172	1.00	0.00	O
ATOM	11392	N	GLY	X	920	40.852	45.328	116.351	1.00	0.00	N
ATOM	11393	H	GLY	X	920	40.250	45.254	115.543	1.00	0.00	H
ATOM	11394	CA	GLY	X	920	40.743	44.299	117.401	1.00	0.00	C
ATOM	11395	HA2	GLY	X	920	41.716	43.832	117.546	1.00	0.00	H
ATOM	11396	HA3	GLY	X	920	40.460	44.686	118.380	1.00	0.00	H

ATOM	11397	C	GLY	X	920	39.765	43.147	117.006	1.00	0.00	C
ATOM	11398	O	GLY	X	920	39.779	42.045	117.615	1.00	0.00	O
ATOM	11399	N	SER	X	921	39.029	43.309	115.936	1.00	0.00	N
ATOM	11400	H	SER	X	921	38.870	44.209	115.507	1.00	0.00	H
ATOM	11401	CA	SER	X	921	37.942	42.426	115.662	1.00	0.00	C
ATOM	11402	HA	SER	X	921	38.162	41.495	116.184	1.00	0.00	H
ATOM	11403	CB	SER	X	921	36.640	42.977	116.316	1.00	0.00	C
ATOM	11404	HB2	SER	X	921	36.008	42.119	116.543	1.00	0.00	H
ATOM	11405	HB3	SER	X	921	36.855	43.450	117.275	1.00	0.00	H
ATOM	11406	OG	SER	X	921	36.013	43.985	115.655	1.00	0.00	O
ATOM	11407	HG	SER	X	921	36.543	44.780	115.740	1.00	0.00	H
ATOM	11408	C	SER	X	921	37.914	41.950	114.156	1.00	0.00	C
ATOM	11409	O	SER	X	921	38.835	41.234	113.774	1.00	0.00	O
ATOM	11410	N	VAL	X	922	36.897	42.322	113.394	1.00	0.00	N
ATOM	11411	H	VAL	X	922	36.284	43.024	113.785	1.00	0.00	H
ATOM	11412	CA	VAL	X	922	36.774	41.866	111.953	1.00	0.00	C
ATOM	11413	HA	VAL	X	922	36.852	40.783	112.049	1.00	0.00	H
ATOM	11414	CB	VAL	X	922	35.367	42.270	111.531	1.00	0.00	C
ATOM	11415	HB	VAL	X	922	35.276	42.183	110.448	1.00	0.00	H
ATOM	11416	CG1	VAL	X	922	34.300	41.465	112.212	1.00	0.00	C
ATOM	11417	HG11	VAL	X	922	34.325	41.769	113.258	1.00	0.00	H
ATOM	11418	HG12	VAL	X	922	33.355	41.446	111.672	1.00	0.00	H
ATOM	11419	HG13	VAL	X	922	34.555	40.410	112.099	1.00	0.00	H
ATOM	11420	CG2	VAL	X	922	34.861	43.703	111.743	1.00	0.00	C
ATOM	11421	HG21	VAL	X	922	34.848	43.982	112.796	1.00	0.00	H
ATOM	11422	HG22	VAL	X	922	35.492	44.415	111.211	1.00	0.00	H
ATOM	11423	HG23	VAL	X	922	33.813	43.726	111.444	1.00	0.00	H
ATOM	11424	C	VAL	X	922	37.871	42.413	111.051	1.00	0.00	C
ATOM	11425	O	VAL	X	922	38.223	41.725	110.125	1.00	0.00	O
ATOM	11426	N	GLY	X	923	38.486	43.595	111.319	1.00	0.00	N
ATOM	11427	H	GLY	X	923	38.291	44.057	112.196	1.00	0.00	H
ATOM	11428	CA	GLY	X	923	39.559	44.124	110.607	1.00	0.00	C
ATOM	11429	HA2	GLY	X	923	39.261	44.214	109.562	1.00	0.00	H
ATOM	11430	HA3	GLY	X	923	39.762	45.160	110.878	1.00	0.00	H
ATOM	11431	C	GLY	X	923	40.842	43.356	110.718	1.00	0.00	C
ATOM	11432	O	GLY	X	923	41.629	43.336	109.722	1.00	0.00	O
ATOM	11433	N	ALA	X	924	40.976	42.593	111.740	1.00	0.00	N
ATOM	11434	H	ALA	X	924	40.369	42.731	112.535	1.00	0.00	H
ATOM	11435	CA	ALA	X	924	42.117	41.711	111.905	1.00	0.00	C
ATOM	11436	HA	ALA	X	924	42.998	42.117	111.408	1.00	0.00	H
ATOM	11437	CB	ALA	X	924	42.384	41.583	113.454	1.00	0.00	C
ATOM	11438	HB1	ALA	X	924	41.569	40.989	113.871	1.00	0.00	H
ATOM	11439	HB2	ALA	X	924	43.202	40.880	113.615	1.00	0.00	H
ATOM	11440	HB3	ALA	X	924	42.575	42.519	113.977	1.00	0.00	H
ATOM	11441	C	ALA	X	924	41.898	40.307	111.238	1.00	0.00	C
ATOM	11442	O	ALA	X	924	42.856	39.715	110.694	1.00	0.00	O
ATOM	11443	N	GLN	X	925	40.655	39.820	111.047	1.00	0.00	N
ATOM	11444	H	GLN	X	925	39.942	40.140	111.688	1.00	0.00	H
ATOM	11445	CA	GLN	X	925	40.303	38.723	110.080	1.00	0.00	C
ATOM	11446	HA	GLN	X	925	41.067	37.951	110.168	1.00	0.00	H
ATOM	11447	CB	GLN	X	925	38.902	38.257	110.573	1.00	0.00	C
ATOM	11448	HB2	GLN	X	925	38.954	37.964	111.621	1.00	0.00	H
ATOM	11449	HB3	GLN	X	925	38.204	39.092	110.520	1.00	0.00	H
ATOM	11450	CG	GLN	X	925	38.409	37.070	109.649	1.00	0.00	C
ATOM	11451	HG2	GLN	X	925	37.395	36.820	109.955	1.00	0.00	H
ATOM	11452	HG3	GLN	X	925	38.352	37.522	108.657	1.00	0.00	H
ATOM	11453	CD	GLN	X	925	39.364	35.876	109.686	1.00	0.00	C
ATOM	11454	OE1	GLN	X	925	39.421	35.181	110.691	1.00	0.00	O
ATOM	11455	NE2	GLN	X	925	40.119	35.589	108.642	1.00	0.00	N
ATOM	11456	HE21	GLN	X	925	40.729	34.786	108.684	1.00	0.00	H
ATOM	11457	HE22	GLN	X	925	40.245	36.335	107.973	1.00	0.00	H
ATOM	11458	C	GLN	X	925	40.323	39.176	108.618	1.00	0.00	C
ATOM	11459	O	GLN	X	925	40.712	38.391	107.740	1.00	0.00	O
ATOM	11460	N	ALA	X	926	40.118	40.438	108.424	1.00	0.00	N
ATOM	11461	H	ALA	X	926	39.877	41.013	109.219	1.00	0.00	H
ATOM	11462	CA	ALA	X	926	40.155	41.000	107.139	1.00	0.00	C
ATOM	11463	HA	ALA	X	926	39.745	40.324	106.389	1.00	0.00	H
ATOM	11464	CB	ALA	X	926	39.307	42.280	107.178	1.00	0.00	C
ATOM	11465	HB1	ALA	X	926	39.109	42.614	106.160	1.00	0.00	H
ATOM	11466	HB2	ALA	X	926	38.341	42.013	107.605	1.00	0.00	H
ATOM	11467	HB3	ALA	X	926	39.761	43.088	107.755	1.00	0.00	H
ATOM	11468	C	ALA	X	926	41.630	41.256	106.612	1.00	0.00	C
ATOM	11469	O	ALA	X	926	42.029	41.106	105.467	1.00	0.00	O
ATOM	11470	N	LEU	X	927	42.463	41.578	107.608	1.00	0.00	N
ATOM	11471	H	LEU	X	927	42.119	41.795	108.531	1.00	0.00	H
ATOM	11472	CA	LEU	X	927	43.869	41.724	107.314	1.00	0.00	C
ATOM	11473	HA	LEU	X	927	43.909	42.264	106.367	1.00	0.00	H
ATOM	11474	CB	LEU	X	927	44.587	42.648	108.335	1.00	0.00	C
ATOM	11475	HB2	LEU	X	927	44.212	42.239	109.273	1.00	0.00	H
ATOM	11476	HB3	LEU	X	927	45.668	42.575	108.209	1.00	0.00	H
ATOM	11477	CG	LEU	X	927	44.092	44.113	108.097	1.00	0.00	C
ATOM	11478	HG	LEU	X	927	43.016	44.127	107.924	1.00	0.00	H

ATOM	11479	CD1	LEU	X	927	44.415	44.992	109.344	1.00	0.00	C
ATOM	11480	HD11	LEU	X	927	45.429	44.736	109.651	1.00	0.00	H
ATOM	11481	HD12	LEU	X	927	44.254	46.016	109.006	1.00	0.00	H
ATOM	11482	HD13	LEU	X	927	43.622	44.878	110.083	1.00	0.00	H
ATOM	11483	CD2	LEU	X	927	44.787	44.746	106.880	1.00	0.00	C
ATOM	11484	HD21	LEU	X	927	44.646	44.263	105.913	1.00	0.00	H
ATOM	11485	HD22	LEU	X	927	44.393	45.764	106.871	1.00	0.00	H
ATOM	11486	HD23	LEU	X	927	45.852	44.605	107.058	1.00	0.00	H
ATOM	11487	C	LEU	X	927	44.518	40.332	107.156	1.00	0.00	C
ATOM	11488	O	LEU	X	927	45.378	40.165	106.281	1.00	0.00	O
ATOM	11489	N	ALA	X	928	43.973	39.276	107.796	1.00	0.00	N
ATOM	11490	H	ALA	X	928	43.414	39.440	108.621	1.00	0.00	H
ATOM	11491	CA	ALA	X	928	44.371	37.928	107.604	1.00	0.00	C
ATOM	11492	HA	ALA	X	928	45.440	37.849	107.802	1.00	0.00	H
ATOM	11493	CB	ALA	X	928	43.601	37.128	108.666	1.00	0.00	C
ATOM	11494	HB1	ALA	X	928	43.617	37.590	109.654	1.00	0.00	H
ATOM	11495	HB2	ALA	X	928	42.549	37.067	108.385	1.00	0.00	H
ATOM	11496	HB3	ALA	X	928	43.944	36.097	108.591	1.00	0.00	H
ATOM	11497	C	ALA	X	928	44.192	37.440	106.164	1.00	0.00	C
ATOM	11498	O	ALA	X	928	45.073	36.832	105.565	1.00	0.00	O
ATOM	11499	N	SER	X	929	42.900	37.626	105.614	1.00	0.00	N
ATOM	11500	H	SER	X	929	42.246	38.138	106.188	1.00	0.00	H
ATOM	11501	CA	SER	X	929	42.588	37.383	104.260	1.00	0.00	C
ATOM	11502	HA	SER	X	929	42.741	36.321	104.075	1.00	0.00	H
ATOM	11503	CB	SER	X	929	41.173	37.820	103.958	1.00	0.00	C
ATOM	11504	HB2	SER	X	929	40.941	38.818	104.329	1.00	0.00	H
ATOM	11505	HB3	SER	X	929	41.083	37.734	102.876	1.00	0.00	H
ATOM	11506	OG	SER	X	929	40.176	37.033	104.627	1.00	0.00	O
ATOM	11507	HG	SER	X	929	40.018	36.260	104.078	1.00	0.00	H
ATOM	11508	C	SER	X	929	43.547	38.226	103.282	1.00	0.00	C
ATOM	11509	O	SER	X	929	43.924	37.699	102.260	1.00	0.00	O
ATOM	11510	N	MET	X	930	44.059	39.387	103.595	1.00	0.00	N
ATOM	11511	H	MET	X	930	43.749	39.775	104.474	1.00	0.00	H
ATOM	11512	CA	MET	X	930	44.955	40.147	102.720	1.00	0.00	C
ATOM	11513	HA	MET	X	930	44.673	40.159	101.667	1.00	0.00	H
ATOM	11514	CB	MET	X	930	45.162	41.586	103.306	1.00	0.00	C
ATOM	11515	HB2	MET	X	930	44.150	41.982	103.228	1.00	0.00	H
ATOM	11516	HB3	MET	X	930	45.386	41.552	104.373	1.00	0.00	H
ATOM	11517	CG	MET	X	930	46.079	42.412	102.400	1.00	0.00	C
ATOM	11518	HG2	MET	X	930	47.108	42.054	102.427	1.00	0.00	H
ATOM	11519	HG3	MET	X	930	45.671	42.242	101.403	1.00	0.00	H
ATOM	11520	SD	MET	X	930	46.034	44.221	102.529	1.00	0.00	S
ATOM	11521	CE	MET	X	930	47.249	44.648	101.302	1.00	0.00	C
ATOM	11522	HE1	MET	X	930	47.566	43.755	100.764	1.00	0.00	H
ATOM	11523	HE2	MET	X	930	46.898	45.346	100.543	1.00	0.00	H
ATOM	11524	HE3	MET	X	930	48.095	45.092	101.827	1.00	0.00	H
ATOM	11525	C	MET	X	930	46.255	39.354	102.725	1.00	0.00	C
ATOM	11526	O	MET	X	930	46.833	39.219	101.682	1.00	0.00	O
ATOM	11527	N	LEU	X	931	46.685	38.815	103.854	1.00	0.00	N
ATOM	11528	H	LEU	X	931	46.148	38.960	104.696	1.00	0.00	H
ATOM	11529	CA	LEU	X	931	47.935	37.984	103.941	1.00	0.00	C
ATOM	11530	HA	LEU	X	931	48.748	38.530	103.464	1.00	0.00	H
ATOM	11531	CB	LEU	X	931	48.381	37.629	105.388	1.00	0.00	C
ATOM	11532	HB2	LEU	X	931	47.442	37.412	105.896	1.00	0.00	H
ATOM	11533	HB3	LEU	X	931	49.129	36.852	105.228	1.00	0.00	H
ATOM	11534	CG	LEU	X	931	49.001	38.665	106.227	1.00	0.00	C
ATOM	11535	HG	LEU	X	931	48.230	39.434	106.196	1.00	0.00	H
ATOM	11536	CD1	LEU	X	931	49.150	38.266	107.712	1.00	0.00	C
ATOM	11537	HD11	LEU	X	931	49.401	39.096	108.374	1.00	0.00	H
ATOM	11538	HD12	LEU	X	931	48.205	37.977	108.172	1.00	0.00	H
ATOM	11539	HD13	LEU	X	931	49.883	37.462	107.626	1.00	0.00	H
ATOM	11540	CD2	LEU	X	931	50.222	39.236	105.546	1.00	0.00	C
ATOM	11541	HD21	LEU	X	931	49.928	39.638	104.577	1.00	0.00	H
ATOM	11542	HD22	LEU	X	931	50.600	40.078	106.124	1.00	0.00	H
ATOM	11543	HD23	LEU	X	931	51.076	38.563	105.468	1.00	0.00	H
ATOM	11544	C	LEU	X	931	47.714	36.667	103.126	1.00	0.00	C
ATOM	11545	O	LEU	X	931	48.652	35.986	102.662	1.00	0.00	O
ATOM	11546	N	GLU	X	932	46.479	36.182	103.026	1.00	0.00	N
ATOM	11547	H	GLU	X	932	45.828	36.696	103.602	1.00	0.00	H
ATOM	11548	CA	GLU	X	932	46.090	34.936	102.350	1.00	0.00	C
ATOM	11549	HA	GLU	X	932	46.841	34.168	102.539	1.00	0.00	H
ATOM	11550	CB	GLU	X	932	44.717	34.487	102.980	1.00	0.00	C
ATOM	11551	HB2	GLU	X	932	44.878	34.414	104.056	1.00	0.00	H
ATOM	11552	HB3	GLU	X	932	43.952	35.247	102.815	1.00	0.00	H
ATOM	11553	CG	GLU	X	932	44.141	33.100	102.506	1.00	0.00	C
ATOM	11554	HG2	GLU	X	932	43.995	33.015	101.428	1.00	0.00	H
ATOM	11555	HG3	GLU	X	932	44.955	32.413	102.739	1.00	0.00	H
ATOM	11556	CD	GLU	X	932	42.832	32.761	103.189	1.00	0.00	C
ATOM	11557	OE1	GLU	X	932	41.735	32.764	102.588	1.00	0.00	O
ATOM	11558	OE2	GLU	X	932	42.886	32.642	104.425	1.00	0.00	O
ATOM	11559	C	GLU	X	932	46.068	35.155	100.777	1.00	0.00	C
ATOM	11560	O	GLU	X	932	46.406	34.183	100.117	1.00	0.00	O

ATOM	11561	N	LYS	X	933	45.752	36.329	100.339	1.00	0.00	N
ATOM	11562	H	LYS	X	933	45.645	37.072	101.015	1.00	0.00	H
ATOM	11563	CA	LYS	X	933	45.536	36.580	98.882	1.00	0.00	C
ATOM	11564	HA	LYS	X	933	45.716	35.634	98.370	1.00	0.00	H
ATOM	11565	CB	LYS	X	933	44.096	36.879	98.547	1.00	0.00	C
ATOM	11566	HB2	LYS	X	933	43.713	37.819	98.942	1.00	0.00	H
ATOM	11567	HB3	LYS	X	933	43.899	36.889	97.475	1.00	0.00	H
ATOM	11568	CG	LYS	X	933	43.135	35.811	99.026	1.00	0.00	C
ATOM	11569	HG2	LYS	X	933	43.266	34.891	98.458	1.00	0.00	H
ATOM	11570	HG3	LYS	X	933	43.240	35.591	100.088	1.00	0.00	H
ATOM	11571	CD	LYS	X	933	41.690	36.335	98.818	1.00	0.00	C
ATOM	11572	HD2	LYS	X	933	41.566	36.841	97.862	1.00	0.00	H
ATOM	11573	HD3	LYS	X	933	40.994	35.499	98.846	1.00	0.00	H
ATOM	11574	CE	LYS	X	933	41.250	37.313	99.945	1.00	0.00	C
ATOM	11575	HE2	LYS	X	933	41.397	36.768	100.877	1.00	0.00	H
ATOM	11576	HE3	LYS	X	933	41.880	38.198	100.031	1.00	0.00	H
ATOM	11577	NZ	LYS	X	933	39.860	37.623	99.797	1.00	0.00	N
ATOM	11578	HZ1	LYS	X	933	39.244	36.824	99.767	1.00	0.00	H
ATOM	11579	HZ2	LYS	X	933	39.510	38.263	100.497	1.00	0.00	H
ATOM	11580	HZ3	LYS	X	933	39.668	38.129	98.943	1.00	0.00	H
ATOM	11581	C	LYS	X	933	46.363	37.699	98.206	1.00	0.00	C
ATOM	11582	O	LYS	X	933	46.561	37.549	97.005	1.00	0.00	O
ATOM	11583	N	ASN	X	934	46.952	38.738	98.884	1.00	0.00	N
ATOM	11584	H	ASN	X	934	46.845	38.781	99.888	1.00	0.00	H
ATOM	11585	CA	ASN	X	934	47.905	39.732	98.301	1.00	0.00	C
ATOM	11586	HA	ASN	X	934	47.525	39.888	97.291	1.00	0.00	H
ATOM	11587	CB	ASN	X	934	47.770	41.143	98.905	1.00	0.00	C
ATOM	11588	HB2	ASN	X	934	46.696	41.320	98.945	1.00	0.00	H
ATOM	11589	HB3	ASN	X	934	48.168	41.305	99.907	1.00	0.00	H
ATOM	11590	CG	ASN	X	934	48.377	42.231	98.085	1.00	0.00	C
ATOM	11591	OD1	ASN	X	934	49.542	42.282	97.810	1.00	0.00	O
ATOM	11592	ND2	ASN	X	934	47.517	43.115	97.606	1.00	0.00	N
ATOM	11593	HD21	ASN	X	934	47.968	43.873	97.115	1.00	0.00	H
ATOM	11594	HD22	ASN	X	934	46.585	43.198	97.988	1.00	0.00	H
ATOM	11595	C	ASN	X	934	49.398	39.355	98.273	1.00	0.00	C
ATOM	11596	O	ASN	X	934	49.915	38.921	99.319	1.00	0.00	O
ATOM	11597	N	VAL	X	935	50.098	39.521	97.136	1.00	0.00	N
ATOM	11598	H	VAL	X	935	49.642	39.911	96.322	1.00	0.00	H
ATOM	11599	CA	VAL	X	935	51.377	38.900	96.861	1.00	0.00	C
ATOM	11600	HA	VAL	X	935	51.801	38.366	97.712	1.00	0.00	H
ATOM	11601	CB	VAL	X	935	51.216	37.959	95.672	1.00	0.00	C
ATOM	11602	HB	VAL	X	935	50.873	38.451	94.762	1.00	0.00	H
ATOM	11603	CG1	VAL	X	935	52.485	37.176	95.433	1.00	0.00	C
ATOM	11604	HG11	VAL	X	935	52.874	36.958	96.429	1.00	0.00	H
ATOM	11605	HG12	VAL	X	935	52.190	36.325	94.821	1.00	0.00	H
ATOM	11606	HG13	VAL	X	935	53.274	37.662	94.860	1.00	0.00	H
ATOM	11607	CG2	VAL	X	935	49.985	37.070	95.933	1.00	0.00	C
ATOM	11608	HG21	VAL	X	935	49.997	36.697	96.957	1.00	0.00	H
ATOM	11609	HG22	VAL	X	935	49.120	37.724	95.826	1.00	0.00	H
ATOM	11610	HG23	VAL	X	935	50.055	36.297	95.169	1.00	0.00	H
ATOM	11611	C	VAL	X	935	52.481	39.980	96.618	1.00	0.00	C
ATOM	11612	O	VAL	X	935	53.635	39.710	96.665	1.00	0.00	O
ATOM	11613	N	ALA	X	936	52.144	41.321	96.449	1.00	0.00	N
ATOM	11614	H	ALA	X	936	51.166	41.560	96.382	1.00	0.00	H
ATOM	11615	CA	ALA	X	936	53.098	42.428	96.418	1.00	0.00	C
ATOM	11616	HA	ALA	X	936	54.053	42.044	96.056	1.00	0.00	H
ATOM	11617	CB	ALA	X	936	52.598	43.577	95.498	1.00	0.00	C
ATOM	11618	HB1	ALA	X	936	53.309	44.401	95.550	1.00	0.00	H
ATOM	11619	HB2	ALA	X	936	52.571	43.381	94.426	1.00	0.00	H
ATOM	11620	HB3	ALA	X	936	51.624	43.937	95.830	1.00	0.00	H
ATOM	11621	C	ALA	X	936	53.387	42.888	97.829	1.00	0.00	C
ATOM	11622	O	ALA	X	936	54.503	43.456	98.022	1.00	0.00	O
ATOM	11623	N	LEU	X	937	52.534	42.693	98.808	1.00	0.00	N
ATOM	11624	H	LEU	X	937	51.696	42.250	98.463	1.00	0.00	H
ATOM	11625	CA	LEU	X	937	52.688	43.058	100.254	1.00	0.00	C
ATOM	11626	HA	LEU	X	937	52.890	44.103	100.489	1.00	0.00	H
ATOM	11627	CB	LEU	X	937	51.357	42.678	100.930	1.00	0.00	C
ATOM	11628	HB2	LEU	X	937	50.477	42.914	100.332	1.00	0.00	H
ATOM	11629	HB3	LEU	X	937	51.291	41.589	100.969	1.00	0.00	H
ATOM	11630	CG	LEU	X	937	51.222	43.324	102.355	1.00	0.00	C
ATOM	11631	HG	LEU	X	937	52.186	43.257	102.861	1.00	0.00	H
ATOM	11632	CD1	LEU	X	937	50.836	44.831	102.388	1.00	0.00	C
ATOM	11633	HD11	LEU	X	937	50.165	45.023	101.550	1.00	0.00	H
ATOM	11634	HD12	LEU	X	937	50.265	45.025	103.296	1.00	0.00	H
ATOM	11635	HD13	LEU	X	937	51.662	45.541	102.386	1.00	0.00	H
ATOM	11636	CD2	LEU	X	937	50.198	42.482	103.177	1.00	0.00	C
ATOM	11637	HD21	LEU	X	937	50.489	41.449	102.990	1.00	0.00	H
ATOM	11638	HD22	LEU	X	937	50.392	42.563	104.246	1.00	0.00	H
ATOM	11639	HD23	LEU	X	937	49.244	42.631	102.673	1.00	0.00	H
ATOM	11640	C	LEU	X	937	53.861	42.357	100.865	1.00	0.00	C
ATOM	11641	O	LEU	X	937	54.035	41.156	100.702	1.00	0.00	O
ATOM	11642	N	GLU	X	938	54.788	43.192	101.446	1.00	0.00	N

ATOM	11643	H	GLU	X	938	54.563	44.177	101.450	1.00	0.00	H
ATOM	11644	CA	GLU	X	938	56.093	42.826	101.944	1.00	0.00	C
ATOM	11645	HA	GLU	X	938	56.185	41.739	101.908	1.00	0.00	H
ATOM	11646	CB	GLU	X	938	57.172	43.272	100.972	1.00	0.00	C
ATOM	11647	HB2	GLU	X	938	56.803	43.017	99.979	1.00	0.00	H
ATOM	11648	HB3	GLU	X	938	57.292	44.340	101.156	1.00	0.00	H
ATOM	11649	CG	GLU	X	938	58.552	42.605	101.194	1.00	0.00	C
ATOM	11650	HG2	GLU	X	938	58.969	42.610	102.202	1.00	0.00	H
ATOM	11651	HG3	GLU	X	938	58.452	41.521	101.206	1.00	0.00	H
ATOM	11652	CD	GLU	X	938	59.552	42.942	100.156	1.00	0.00	C
ATOM	11653	OE1	GLU	X	938	60.677	43.343	100.507	1.00	0.00	O
ATOM	11654	OE2	GLU	X	938	59.256	42.956	98.977	1.00	0.00	O
ATOM	11655	C	GLU	X	938	56.392	43.352	103.393	1.00	0.00	C
ATOM	11656	O	GLU	X	938	57.055	42.676	104.163	1.00	0.00	O
ATOM	11657	N	GLU	X	939	55.737	44.397	103.796	1.00	0.00	N
ATOM	11658	H	GLU	X	939	55.219	44.898	103.088	1.00	0.00	H
ATOM	11659	CA	GLU	X	939	55.630	44.933	105.128	1.00	0.00	C
ATOM	11660	HA	GLU	X	939	56.001	44.210	105.855	1.00	0.00	H
ATOM	11661	CB	GLU	X	939	56.732	46.037	105.302	1.00	0.00	C
ATOM	11662	HB2	GLU	X	939	57.713	45.571	105.215	1.00	0.00	H
ATOM	11663	HB3	GLU	X	939	56.609	46.720	104.461	1.00	0.00	H
ATOM	11664	CG	GLU	X	939	56.618	46.757	106.608	1.00	0.00	C
ATOM	11665	HG2	GLU	X	939	55.717	47.356	106.749	1.00	0.00	H
ATOM	11666	HG3	GLU	X	939	56.731	45.969	107.352	1.00	0.00	H
ATOM	11667	CD	GLU	X	939	57.707	47.818	106.734	1.00	0.00	C
ATOM	11668	OE1	GLU	X	939	57.873	48.414	107.817	1.00	0.00	O
ATOM	11669	OE2	GLU	X	939	58.387	48.117	105.709	1.00	0.00	O
ATOM	11670	C	GLU	X	939	54.232	45.483	105.439	1.00	0.00	C
ATOM	11671	O	GLU	X	939	53.535	46.171	104.631	1.00	0.00	O
ATOM	11672	N	LEU	X	940	53.725	45.067	106.625	1.00	0.00	N
ATOM	11673	H	LEU	X	940	54.163	44.312	107.133	1.00	0.00	H
ATOM	11674	CA	LEU	X	940	52.379	45.397	107.236	1.00	0.00	C
ATOM	11675	HA	LEU	X	940	51.933	46.239	106.707	1.00	0.00	H
ATOM	11676	CB	LEU	X	940	51.321	44.257	106.948	1.00	0.00	C
ATOM	11677	HB2	LEU	X	940	51.062	44.232	105.890	1.00	0.00	H
ATOM	11678	HB3	LEU	X	940	51.773	43.287	107.156	1.00	0.00	H
ATOM	11679	CG	LEU	X	940	50.069	44.380	107.798	1.00	0.00	C
ATOM	11680	HG	LEU	X	940	50.320	44.477	108.855	1.00	0.00	H
ATOM	11681	CD1	LEU	X	940	49.156	45.554	107.315	1.00	0.00	C
ATOM	11682	HD11	LEU	X	940	49.498	46.494	107.749	1.00	0.00	H
ATOM	11683	HD12	LEU	X	940	49.154	45.471	106.229	1.00	0.00	H
ATOM	11684	HD13	LEU	X	940	48.120	45.423	107.632	1.00	0.00	H
ATOM	11685	CD2	LEU	X	940	49.336	43.021	107.599	1.00	0.00	C
ATOM	11686	HD21	LEU	X	940	48.503	42.986	108.300	1.00	0.00	H
ATOM	11687	HD22	LEU	X	940	48.955	42.880	106.588	1.00	0.00	H
ATOM	11688	HD23	LEU	X	940	50.076	42.307	107.963	1.00	0.00	H
ATOM	11689	C	LEU	X	940	52.529	45.947	108.676	1.00	0.00	C
ATOM	11690	O	LEU	X	940	53.223	45.334	109.483	1.00	0.00	O
ATOM	11691	N	CYS	X	941	51.873	47.023	109.033	1.00	0.00	N
ATOM	11692	H	CYS	X	941	51.372	47.495	108.294	1.00	0.00	H
ATOM	11693	CA	CYS	X	941	52.177	47.756	110.243	1.00	0.00	C
ATOM	11694	HA	CYS	X	941	52.754	47.076	110.869	1.00	0.00	H
ATOM	11695	CB	CYS	X	941	53.007	49.004	109.846	1.00	0.00	C
ATOM	11696	HB2	CYS	X	941	53.857	48.741	109.217	1.00	0.00	H
ATOM	11697	HB3	CYS	X	941	52.287	49.549	109.236	1.00	0.00	H
ATOM	11698	SG	CYS	X	941	53.698	49.903	111.244	1.00	0.00	S
ATOM	11699	HG	CYS	X	941	54.096	50.948	110.512	1.00	0.00	H
ATOM	11700	C	CYS	X	941	50.953	48.257	111.006	1.00	0.00	C
ATOM	11701	O	CYS	X	941	50.077	48.882	110.359	1.00	0.00	O
ATOM	11702	N	LEU	X	942	50.731	47.701	112.233	1.00	0.00	N
ATOM	11703	H	LEU	X	942	51.356	46.981	112.567	1.00	0.00	H
ATOM	11704	CA	LEU	X	942	49.493	47.684	113.007	1.00	0.00	C
ATOM	11705	HA	LEU	X	942	48.784	48.450	112.696	1.00	0.00	H
ATOM	11706	CB	LEU	X	942	48.855	46.254	112.942	1.00	0.00	C
ATOM	11707	HB2	LEU	X	942	49.569	45.609	113.455	1.00	0.00	H
ATOM	11708	HB3	LEU	X	942	47.933	46.252	113.523	1.00	0.00	H
ATOM	11709	CG	LEU	X	942	48.530	45.726	111.531	1.00	0.00	C
ATOM	11710	HG	LEU	X	942	49.422	45.634	110.912	1.00	0.00	H
ATOM	11711	CD1	LEU	X	942	47.994	44.336	111.707	1.00	0.00	C
ATOM	11712	HD11	LEU	X	942	47.042	44.304	112.237	1.00	0.00	H
ATOM	11713	HD12	LEU	X	942	47.904	43.887	110.718	1.00	0.00	H
ATOM	11714	HD13	LEU	X	942	48.825	43.793	112.157	1.00	0.00	H
ATOM	11715	CD2	LEU	X	942	47.515	46.616	110.793	1.00	0.00	C
ATOM	11716	HD21	LEU	X	942	47.603	46.436	109.721	1.00	0.00	H
ATOM	11717	HD22	LEU	X	942	46.470	46.364	110.976	1.00	0.00	H
ATOM	11718	HD23	LEU	X	942	47.847	47.651	110.873	1.00	0.00	H
ATOM	11719	C	LEU	X	942	49.920	48.080	114.442	1.00	0.00	C
ATOM	11720	O	LEU	X	942	49.329	47.626	115.391	1.00	0.00	O
ATOM	11721	N	GLU	X	943	50.919	48.852	114.669	1.00	0.00	N
ATOM	11722	H	GLU	X	943	51.483	49.200	113.906	1.00	0.00	H
ATOM	11723	CA	GLU	X	943	51.275	49.222	116.052	1.00	0.00	C
ATOM	11724	HA	GLU	X	943	51.393	48.306	116.631	1.00	0.00	H

ATOM	11725	CB	GLU	X	943	52.652	49.955	116.029	1.00	0.00	C
ATOM	11726	HB2	GLU	X	943	52.442	50.965	115.676	1.00	0.00	H
ATOM	11727	HB3	GLU	X	943	52.982	50.000	117.067	1.00	0.00	H
ATOM	11728	CG	GLU	X	943	53.720	49.165	115.280	1.00	0.00	C
ATOM	11729	HG2	GLU	X	943	53.739	48.094	115.486	1.00	0.00	H
ATOM	11730	HG3	GLU	X	943	53.595	49.261	114.201	1.00	0.00	H
ATOM	11731	CD	GLU	X	943	55.159	49.657	115.474	1.00	0.00	C
ATOM	11732	OE1	GLU	X	943	55.264	50.913	115.475	1.00	0.00	O
ATOM	11733	OE2	GLU	X	943	56.078	48.851	115.695	1.00	0.00	O
ATOM	11734	C	GLU	X	943	50.078	50.030	116.764	1.00	0.00	C
ATOM	11735	O	GLU	X	943	49.222	50.612	116.049	1.00	0.00	O
ATOM	11736	N	GLU	X	944	50.104	50.056	118.039	1.00	0.00	N
ATOM	11737	H	GLU	X	944	50.856	49.513	118.437	1.00	0.00	H
ATOM	11738	CA	GLU	X	944	49.258	50.897	118.880	1.00	0.00	C
ATOM	11739	HA	GLU	X	944	49.571	50.877	119.924	1.00	0.00	H
ATOM	11740	CB	GLU	X	944	49.486	52.334	118.544	1.00	0.00	C
ATOM	11741	HB2	GLU	X	944	49.149	52.577	117.536	1.00	0.00	H
ATOM	11742	HB3	GLU	X	944	49.063	52.993	119.302	1.00	0.00	H
ATOM	11743	CG	GLU	X	944	51.009	52.675	118.497	1.00	0.00	C
ATOM	11744	HG2	GLU	X	944	51.365	52.402	119.490	1.00	0.00	H
ATOM	11745	HG3	GLU	X	944	51.553	52.134	117.722	1.00	0.00	H
ATOM	11746	CD	GLU	X	944	51.225	54.175	118.266	1.00	0.00	C
ATOM	11747	OE1	GLU	X	944	52.397	54.544	117.988	1.00	0.00	O
ATOM	11748	OE2	GLU	X	944	50.223	54.930	118.308	1.00	0.00	O
ATOM	11749	C	GLU	X	944	47.756	50.634	118.715	1.00	0.00	C
ATOM	11750	O	GLU	X	944	46.920	51.449	119.194	1.00	0.00	O
ATOM	11751	N	ASN	X	945	47.362	49.500	118.145	1.00	0.00	N
ATOM	11752	H	ASN	X	945	47.972	48.868	117.647	1.00	0.00	H
ATOM	11753	CA	ASN	X	945	45.931	49.106	118.034	1.00	0.00	C
ATOM	11754	HA	ASN	X	945	45.296	49.991	117.996	1.00	0.00	H
ATOM	11755	CB	ASN	X	945	45.702	48.413	116.636	1.00	0.00	C
ATOM	11756	HB2	ASN	X	945	46.461	47.642	116.498	1.00	0.00	H
ATOM	11757	HB3	ASN	X	945	44.722	47.946	116.543	1.00	0.00	H
ATOM	11758	CG	ASN	X	945	45.735	49.355	115.463	1.00	0.00	C
ATOM	11759	OD1	ASN	X	945	44.752	50.004	115.252	1.00	0.00	O
ATOM	11760	ND2	ASN	X	945	46.773	49.318	114.604	1.00	0.00	N
ATOM	11761	HD21	ASN	X	945	46.751	49.908	113.785	1.00	0.00	H
ATOM	11762	HD22	ASN	X	945	47.648	48.900	114.886	1.00	0.00	H
ATOM	11763	C	ASN	X	945	45.500	48.261	119.264	1.00	0.00	C
ATOM	11764	O	ASN	X	945	46.152	48.387	120.337	1.00	0.00	O
ATOM	11765	N	HID	X	946	44.374	47.559	119.180	1.00	0.00	N
ATOM	11766	H	HID	X	946	43.920	47.474	118.282	1.00	0.00	H
ATOM	11767	CA	HID	X	946	43.871	46.771	120.326	1.00	0.00	C
ATOM	11768	HA	HID	X	946	44.531	46.789	121.194	1.00	0.00	H
ATOM	11769	CB	HID	X	946	42.521	47.440	120.806	1.00	0.00	C
ATOM	11770	HB2	HID	X	946	42.673	48.520	120.814	1.00	0.00	H
ATOM	11771	HB3	HID	X	946	41.751	47.135	120.097	1.00	0.00	H
ATOM	11772	CG	HID	X	946	42.268	47.090	122.314	1.00	0.00	C
ATOM	11773	ND1	HID	X	946	42.755	47.800	123.394	1.00	0.00	N
ATOM	11774	HD1	HID	X	946	43.500	48.482	123.399	1.00	0.00	H
ATOM	11775	CE1	HID	X	946	42.322	47.147	124.496	1.00	0.00	C
ATOM	11776	HE1	HID	X	946	42.636	47.464	125.480	1.00	0.00	H
ATOM	11777	NE2	HID	X	946	41.614	46.032	124.252	1.00	0.00	N
ATOM	11778	CD2	HID	X	946	41.624	45.992	122.876	1.00	0.00	C
ATOM	11779	HD2	HID	X	946	41.148	45.287	122.211	1.00	0.00	H
ATOM	11780	C	HID	X	946	43.766	45.220	120.019	1.00	0.00	C
ATOM	11781	O	HID	X	946	42.751	44.638	120.400	1.00	0.00	O
ATOM	11782	N	LEU	X	947	44.748	44.597	119.343	1.00	0.00	N
ATOM	11783	H	LEU	X	947	45.502	45.123	118.923	1.00	0.00	H
ATOM	11784	CA	LEU	X	947	44.814	43.161	119.079	1.00	0.00	C
ATOM	11785	HA	LEU	X	947	43.839	42.759	118.802	1.00	0.00	H
ATOM	11786	CB	LEU	X	947	45.916	42.877	117.990	1.00	0.00	C
ATOM	11787	HB2	LEU	X	947	46.856	43.372	118.237	1.00	0.00	H
ATOM	11788	HB3	LEU	X	947	46.080	41.801	117.949	1.00	0.00	H
ATOM	11789	CG	LEU	X	947	45.554	43.465	116.591	1.00	0.00	C
ATOM	11790	HG	LEU	X	947	45.226	44.485	116.787	1.00	0.00	H
ATOM	11791	CD1	LEU	X	947	46.746	43.518	115.591	1.00	0.00	C
ATOM	11792	HD11	LEU	X	947	47.155	42.508	115.583	1.00	0.00	H
ATOM	11793	HD12	LEU	X	947	46.493	43.759	114.557	1.00	0.00	H
ATOM	11794	HD13	LEU	X	947	47.467	44.249	115.958	1.00	0.00	H
ATOM	11795	CD2	LEU	X	947	44.439	42.730	115.861	1.00	0.00	C
ATOM	11796	HD21	LEU	X	947	44.636	41.663	115.973	1.00	0.00	H
ATOM	11797	HD22	LEU	X	947	43.518	43.102	116.311	1.00	0.00	H
ATOM	11798	HD23	LEU	X	947	44.486	42.994	114.806	1.00	0.00	H
ATOM	11799	C	LEU	X	947	45.136	42.503	120.440	1.00	0.00	C
ATOM	11800	O	LEU	X	947	46.243	42.679	121.011	1.00	0.00	O
ATOM	11801	N	GLN	X	948	44.128	41.833	121.002	1.00	0.00	N
ATOM	11802	H	GLN	X	948	43.273	41.847	120.462	1.00	0.00	H
ATOM	11803	CA	GLN	X	948	44.128	41.073	122.257	1.00	0.00	C
ATOM	11804	HA	GLN	X	948	45.006	41.335	122.849	1.00	0.00	H
ATOM	11805	CB	GLN	X	948	42.824	41.200	122.976	1.00	0.00	C
ATOM	11806	HB2	GLN	X	948	42.054	41.342	122.218	1.00	0.00	H

ATOM	11807	HB3	GLN	X	948	42.549	40.322	123.561	1.00	0.00	H
ATOM	11808	CG	GLN	X	948	42.634	42.489	123.809	1.00	0.00	C
ATOM	11809	HG2	GLN	X	948	43.475	42.606	124.492	1.00	0.00	H
ATOM	11810	HG3	GLN	X	948	42.495	43.364	123.174	1.00	0.00	H
ATOM	11811	CD	GLN	X	948	41.442	42.359	124.720	1.00	0.00	C
ATOM	11812	OE1	GLN	X	948	41.153	41.311	125.353	1.00	0.00	O
ATOM	11813	NE2	GLN	X	948	40.744	43.429	124.988	1.00	0.00	N
ATOM	11814	HE21	GLN	X	948	39.865	43.397	125.485	1.00	0.00	H
ATOM	11815	HE22	GLN	X	948	41.015	44.329	124.617	1.00	0.00	H
ATOM	11816	C	GLN	X	948	44.476	39.593	122.033	1.00	0.00	C
ATOM	11817	O	GLN	X	948	45.613	39.143	122.140	1.00	0.00	O
ATOM	11818	N	ASP	X	949	43.481	38.860	121.615	1.00	0.00	N
ATOM	11819	H	ASP	X	949	42.560	39.249	121.464	1.00	0.00	H
ATOM	11820	CA	ASP	X	949	43.516	37.377	121.485	1.00	0.00	C
ATOM	11821	HA	ASP	X	949	44.524	36.966	121.537	1.00	0.00	H
ATOM	11822	CB	ASP	X	949	42.831	36.625	122.575	1.00	0.00	C
ATOM	11823	HB2	ASP	X	949	42.639	35.603	122.250	1.00	0.00	H
ATOM	11824	HB3	ASP	X	949	43.541	36.467	123.387	1.00	0.00	H
ATOM	11825	CG	ASP	X	949	41.548	37.218	123.168	1.00	0.00	C
ATOM	11826	OD1	ASP	X	949	41.061	36.907	124.308	1.00	0.00	O
ATOM	11827	OD2	ASP	X	949	40.965	38.078	122.493	1.00	0.00	O
ATOM	11828	C	ASP	X	949	43.001	36.868	120.112	1.00	0.00	C
ATOM	11829	O	ASP	X	949	43.777	36.447	119.262	1.00	0.00	O
ATOM	11830	N	ALA	X	950	41.729	37.198	119.896	1.00	0.00	N
ATOM	11831	H	ALA	X	950	41.251	37.612	120.683	1.00	0.00	H
ATOM	11832	CA	ALA	X	950	41.007	36.765	118.646	1.00	0.00	C
ATOM	11833	HA	ALA	X	950	41.102	35.683	118.556	1.00	0.00	H
ATOM	11834	CB	ALA	X	950	39.541	37.098	118.751	1.00	0.00	C
ATOM	11835	HB1	ALA	X	950	39.375	38.175	118.719	1.00	0.00	H
ATOM	11836	HB2	ALA	X	950	39.062	36.560	117.934	1.00	0.00	H
ATOM	11837	HB3	ALA	X	950	39.107	36.788	119.703	1.00	0.00	H
ATOM	11838	C	ALA	X	950	41.609	37.348	117.376	1.00	0.00	C
ATOM	11839	O	ALA	X	950	41.763	36.598	116.405	1.00	0.00	O
ATOM	11840	N	GLY	X	951	41.934	38.609	117.467	1.00	0.00	N
ATOM	11841	H	GLY	X	951	41.623	39.147	118.262	1.00	0.00	H
ATOM	11842	CA	GLY	X	951	42.496	39.284	116.348	1.00	0.00	C
ATOM	11843	HA2	GLY	X	951	42.040	39.129	115.371	1.00	0.00	H
ATOM	11844	HA3	GLY	X	951	42.353	40.355	116.485	1.00	0.00	H
ATOM	11845	C	GLY	X	951	43.941	38.993	116.203	1.00	0.00	C
ATOM	11846	O	GLY	X	951	44.337	38.931	115.060	1.00	0.00	O
ATOM	11847	N	VAL	X	952	44.757	38.597	117.197	1.00	0.00	N
ATOM	11848	H	VAL	X	952	44.314	38.386	118.079	1.00	0.00	H
ATOM	11849	CA	VAL	X	952	45.989	37.918	116.981	1.00	0.00	C
ATOM	11850	HA	VAL	X	952	46.589	38.625	116.408	1.00	0.00	H
ATOM	11851	CB	VAL	X	952	46.822	37.698	118.253	1.00	0.00	C
ATOM	11852	HB	VAL	X	952	46.261	36.906	118.749	1.00	0.00	H
ATOM	11853	CG1	VAL	X	952	48.282	37.301	118.065	1.00	0.00	C
ATOM	11854	HG11	VAL	X	952	48.765	37.256	119.041	1.00	0.00	H
ATOM	11855	HG12	VAL	X	952	48.283	36.395	117.458	1.00	0.00	H
ATOM	11856	HG13	VAL	X	952	48.773	38.051	117.446	1.00	0.00	H
ATOM	11857	CG2	VAL	X	952	46.813	38.906	119.161	1.00	0.00	C
ATOM	11858	HG21	VAL	X	952	47.274	39.761	118.668	1.00	0.00	H
ATOM	11859	HG22	VAL	X	952	45.802	39.172	119.472	1.00	0.00	H
ATOM	11860	HG23	VAL	X	952	47.213	38.642	120.139	1.00	0.00	H
ATOM	11861	C	VAL	X	952	45.752	36.622	116.183	1.00	0.00	C
ATOM	11862	O	VAL	X	952	46.500	36.412	115.232	1.00	0.00	O
ATOM	11863	N	CYS	X	953	44.877	35.660	116.642	1.00	0.00	N
ATOM	11864	H	CYS	X	953	44.317	35.876	117.454	1.00	0.00	H
ATOM	11865	CA	CYS	X	953	44.923	34.312	116.147	1.00	0.00	C
ATOM	11866	HA	CYS	X	953	45.963	33.992	116.187	1.00	0.00	H
ATOM	11867	CB	CYS	X	953	44.199	33.524	117.259	1.00	0.00	C
ATOM	11868	HB2	CYS	X	953	43.155	33.834	117.276	1.00	0.00	H
ATOM	11869	HB3	CYS	X	953	44.245	32.470	116.981	1.00	0.00	H
ATOM	11870	SG	CYS	X	953	45.147	33.684	118.818	1.00	0.00	S
ATOM	11871	HG	CYS	X	953	44.573	34.849	119.129	1.00	0.00	H
ATOM	11872	C	CYS	X	953	44.349	34.133	114.703	1.00	0.00	C
ATOM	11873	O	CYS	X	953	44.629	33.172	113.981	1.00	0.00	O
ATOM	11874	N	SER	X	954	43.642	35.200	114.268	1.00	0.00	N
ATOM	11875	H	SER	X	954	43.396	35.956	114.890	1.00	0.00	H
ATOM	11876	CA	SER	X	954	43.229	35.334	112.873	1.00	0.00	C
ATOM	11877	HA	SER	X	954	42.951	34.353	112.489	1.00	0.00	H
ATOM	11878	CB	SER	X	954	42.027	36.206	112.777	1.00	0.00	C
ATOM	11879	HB2	SER	X	954	41.727	36.312	111.733	1.00	0.00	H
ATOM	11880	HB3	SER	X	954	41.216	35.826	113.398	1.00	0.00	H
ATOM	11881	OG	SER	X	954	42.379	37.471	113.198	1.00	0.00	O
ATOM	11882	HG	SER	X	954	41.554	37.959	113.188	1.00	0.00	H
ATOM	11883	C	SER	X	954	44.411	35.726	111.941	1.00	0.00	C
ATOM	11884	O	SER	X	954	44.570	35.233	110.881	1.00	0.00	O
ATOM	11885	N	LEU	X	955	45.289	36.663	112.446	1.00	0.00	N
ATOM	11886	H	LEU	X	955	45.060	37.196	113.273	1.00	0.00	H
ATOM	11887	CA	LEU	X	955	46.494	37.102	111.751	1.00	0.00	C
ATOM	11888	HA	LEU	X	955	46.256	37.215	110.694	1.00	0.00	H

ATOM	11889	CB	LEU	X	955	46.951	38.403	112.365	1.00	0.00	C
ATOM	11890	HB2	LEU	X	955	47.029	38.317	113.449	1.00	0.00	H
ATOM	11891	HB3	LEU	X	955	47.967	38.610	112.027	1.00	0.00	H
ATOM	11892	CG	LEU	X	955	46.094	39.631	112.066	1.00	0.00	C
ATOM	11893	HG	LEU	X	955	45.033	39.467	112.254	1.00	0.00	H
ATOM	11894	CD1	LEU	X	955	46.640	40.876	112.779	1.00	0.00	C
ATOM	11895	HD11	LEU	X	955	46.458	40.672	113.834	1.00	0.00	H
ATOM	11896	HD12	LEU	X	955	47.701	41.012	112.566	1.00	0.00	H
ATOM	11897	HD13	LEU	X	955	45.991	41.736	112.612	1.00	0.00	H
ATOM	11898	CD2	LEU	X	955	46.158	40.035	110.564	1.00	0.00	C
ATOM	11899	HD21	LEU	X	955	47.174	40.014	110.167	1.00	0.00	H
ATOM	11900	HD22	LEU	X	955	45.559	39.287	110.045	1.00	0.00	H
ATOM	11901	HD23	LEU	X	955	45.681	41.003	110.409	1.00	0.00	H
ATOM	11902	C	LEU	X	955	47.634	36.040	111.839	1.00	0.00	C
ATOM	11903	O	LEU	X	955	48.221	35.723	110.782	1.00	0.00	O
ATOM	11904	N	ALA	X	956	47.792	35.366	112.959	1.00	0.00	N
ATOM	11905	H	ALA	X	956	47.178	35.656	113.706	1.00	0.00	H
ATOM	11906	CA	ALA	X	956	48.579	34.163	113.154	1.00	0.00	C
ATOM	11907	HA	ALA	X	956	49.625	34.443	113.027	1.00	0.00	H
ATOM	11908	CB	ALA	X	956	48.369	33.543	114.527	1.00	0.00	C
ATOM	11909	HB1	ALA	X	956	48.581	34.317	115.264	1.00	0.00	H
ATOM	11910	HB2	ALA	X	956	47.359	33.156	114.670	1.00	0.00	H
ATOM	11911	HB3	ALA	X	956	49.015	32.689	114.733	1.00	0.00	H
ATOM	11912	C	ALA	X	956	48.293	33.129	112.016	1.00	0.00	C
ATOM	11913	O	ALA	X	956	49.176	32.690	111.266	1.00	0.00	O
ATOM	11914	N	GLU	X	957	47.046	32.715	111.866	1.00	0.00	N
ATOM	11915	H	GLU	X	957	46.380	32.917	112.598	1.00	0.00	H
ATOM	11916	CA	GLU	X	957	46.592	31.784	110.797	1.00	0.00	C
ATOM	11917	HA	GLU	X	957	47.115	30.851	111.009	1.00	0.00	H
ATOM	11918	CB	GLU	X	957	45.103	31.468	111.065	1.00	0.00	C
ATOM	11919	HB2	GLU	X	957	44.989	30.979	112.031	1.00	0.00	H
ATOM	11920	HB3	GLU	X	957	44.519	32.388	111.056	1.00	0.00	H
ATOM	11921	CG	GLU	X	957	44.449	30.532	110.064	1.00	0.00	C
ATOM	11922	HG2	GLU	X	957	43.435	30.246	110.341	1.00	0.00	H
ATOM	11923	HG3	GLU	X	957	44.287	31.045	109.117	1.00	0.00	H
ATOM	11924	CD	GLU	X	957	45.255	29.281	109.783	1.00	0.00	C
ATOM	11925	OE1	GLU	X	957	45.302	28.701	108.686	1.00	0.00	O
ATOM	11926	OE2	GLU	X	957	45.905	28.755	110.747	1.00	0.00	O
ATOM	11927	C	GLU	X	957	46.788	32.353	109.365	1.00	0.00	C
ATOM	11928	O	GLU	X	957	47.159	31.555	108.488	1.00	0.00	O
ATOM	11929	N	GLY	X	958	46.588	33.684	109.158	1.00	0.00	N
ATOM	11930	H	GLY	X	958	46.175	34.212	109.913	1.00	0.00	H
ATOM	11931	CA	GLY	X	958	46.781	34.256	107.798	1.00	0.00	C
ATOM	11932	HA2	GLY	X	958	46.353	33.627	107.017	1.00	0.00	H
ATOM	11933	HA3	GLY	X	958	46.318	35.238	107.707	1.00	0.00	H
ATOM	11934	C	GLY	X	958	48.305	34.340	107.475	1.00	0.00	C
ATOM	11935	O	GLY	X	958	48.703	34.039	106.330	1.00	0.00	O
ATOM	11936	N	LEU	X	959	49.187	34.625	108.425	1.00	0.00	N
ATOM	11937	H	LEU	X	959	48.840	34.773	109.363	1.00	0.00	H
ATOM	11938	CA	LEU	X	959	50.595	34.665	108.262	1.00	0.00	C
ATOM	11939	HA	LEU	X	959	50.867	35.235	107.375	1.00	0.00	H
ATOM	11940	CB	LEU	X	959	51.109	35.366	109.532	1.00	0.00	C
ATOM	11941	HB2	LEU	X	959	50.820	36.413	109.626	1.00	0.00	H
ATOM	11942	HB3	LEU	X	959	50.722	34.862	110.417	1.00	0.00	H
ATOM	11943	CG	LEU	X	959	52.655	35.348	109.602	1.00	0.00	C
ATOM	11944	HG	LEU	X	959	53.105	34.371	109.427	1.00	0.00	H
ATOM	11945	CD1	LEU	X	959	53.299	36.307	108.507	1.00	0.00	C
ATOM	11946	HD11	LEU	X	959	54.384	36.217	108.515	1.00	0.00	H
ATOM	11947	HD12	LEU	X	959	53.072	35.994	107.488	1.00	0.00	H
ATOM	11948	HD13	LEU	X	959	53.056	37.353	108.694	1.00	0.00	H
ATOM	11949	CD2	LEU	X	959	53.009	35.820	110.932	1.00	0.00	C
ATOM	11950	HD21	LEU	X	959	52.731	36.872	111.005	1.00	0.00	H
ATOM	11951	HD22	LEU	X	959	52.621	35.271	111.790	1.00	0.00	H
ATOM	11952	HD23	LEU	X	959	54.094	35.754	111.010	1.00	0.00	H
ATOM	11953	C	LEU	X	959	51.116	33.228	108.017	1.00	0.00	C
ATOM	11954	O	LEU	X	959	52.180	33.117	107.338	1.00	0.00	O
ATOM	11955	N	LYS	X	960	50.475	32.153	108.530	1.00	0.00	N
ATOM	11956	H	LYS	X	960	49.650	32.448	109.032	1.00	0.00	H
ATOM	11957	CA	LYS	X	960	50.599	30.782	108.208	1.00	0.00	C
ATOM	11958	HA	LYS	X	960	51.668	30.570	108.221	1.00	0.00	H
ATOM	11959	CB	LYS	X	960	49.929	29.854	109.232	1.00	0.00	C
ATOM	11960	HB2	LYS	X	960	50.170	30.195	110.239	1.00	0.00	H
ATOM	11961	HB3	LYS	X	960	48.853	29.734	109.095	1.00	0.00	H
ATOM	11962	CG	LYS	X	960	50.404	28.367	109.114	1.00	0.00	C
ATOM	11963	HG2	LYS	X	960	50.013	27.992	108.168	1.00	0.00	H
ATOM	11964	HG3	LYS	X	960	51.491	28.342	109.037	1.00	0.00	H
ATOM	11965	CD	LYS	X	960	50.021	27.276	110.091	1.00	0.00	C
ATOM	11966	HD2	LYS	X	960	50.284	26.312	109.657	1.00	0.00	H
ATOM	11967	HD3	LYS	X	960	50.580	27.453	111.010	1.00	0.00	H
ATOM	11968	CE	LYS	X	960	48.533	27.344	110.489	1.00	0.00	C
ATOM	11969	HE2	LYS	X	960	48.397	26.668	111.333	1.00	0.00	H
ATOM	11970	HE3	LYS	X	960	48.206	28.309	110.875	1.00	0.00	H

ATOM	11971	NZ	LYS	X	960	47.672	27.080	109.386	1.00	0.00	N
ATOM	11972	HZ1	LYS	X	960	48.067	27.102	108.456	1.00	0.00	H
ATOM	11973	HZ2	LYS	X	960	47.186	26.200	109.485	1.00	0.00	H
ATOM	11974	HZ3	LYS	X	960	46.942	27.778	109.410	1.00	0.00	H
ATOM	11975	C	LYS	X	960	50.173	30.558	106.760	1.00	0.00	C
ATOM	11976	O	LYS	X	960	51.013	29.944	106.112	1.00	0.00	O
ATOM	11977	N	ARG	X	961	49.106	31.045	106.228	1.00	0.00	N
ATOM	11978	H	ARG	X	961	48.530	31.618	106.829	1.00	0.00	H
ATOM	11979	CA	ARG	X	961	48.719	30.966	104.834	1.00	0.00	C
ATOM	11980	HA	ARG	X	961	48.817	29.942	104.473	1.00	0.00	H
ATOM	11981	CB	ARG	X	961	47.204	31.398	104.783	1.00	0.00	C
ATOM	11982	HB2	ARG	X	961	47.200	32.345	105.324	1.00	0.00	H
ATOM	11983	HB3	ARG	X	961	46.889	31.385	103.740	1.00	0.00	H
ATOM	11984	CG	ARG	X	961	46.294	30.338	105.364	1.00	0.00	C
ATOM	11985	HG2	ARG	X	961	46.312	29.477	104.696	1.00	0.00	H
ATOM	11986	HG3	ARG	X	961	46.609	29.988	106.346	1.00	0.00	H
ATOM	11987	CD	ARG	X	961	44.833	30.923	105.501	1.00	0.00	C
ATOM	11988	HD2	ARG	X	961	44.835	31.947	105.875	1.00	0.00	H
ATOM	11989	HD3	ARG	X	961	44.346	30.789	104.535	1.00	0.00	H
ATOM	11990	NE	ARG	X	961	44.162	30.072	106.444	1.00	0.00	N
ATOM	11991	HE	ARG	X	961	44.632	29.442	107.078	1.00	0.00	H
ATOM	11992	CZ	ARG	X	961	42.947	29.846	106.609	1.00	0.00	C
ATOM	11993	NH1	ARG	X	961	41.980	30.392	105.931	1.00	0.00	N
ATOM	11994	HH11	ARG	X	961	42.219	31.084	105.234	1.00	0.00	H
ATOM	11995	HH12	ARG	X	961	41.012	30.310	106.206	1.00	0.00	H
ATOM	11996	NH2	ARG	X	961	42.544	29.008	107.542	1.00	0.00	N
ATOM	11997	HH21	ARG	X	961	43.267	28.479	108.008	1.00	0.00	H
ATOM	11998	HH22	ARG	X	961	41.612	28.627	107.460	1.00	0.00	H
ATOM	11999	C	ARG	X	961	49.546	31.886	103.904	1.00	0.00	C
ATOM	12000	O	ARG	X	961	49.297	31.938	102.674	1.00	0.00	O
ATOM	12001	N	ASN	X	962	50.463	32.734	104.400	1.00	0.00	N
ATOM	12002	H	ASN	X	962	50.566	32.700	105.405	1.00	0.00	H
ATOM	12003	CA	ASN	X	962	51.328	33.667	103.680	1.00	0.00	C
ATOM	12004	HA	ASN	X	962	50.868	33.956	102.736	1.00	0.00	H
ATOM	12005	CB	ASN	X	962	51.560	34.926	104.572	1.00	0.00	C
ATOM	12006	HB2	ASN	X	962	50.628	35.372	104.917	1.00	0.00	H
ATOM	12007	HB3	ASN	X	962	52.162	34.737	105.461	1.00	0.00	H
ATOM	12008	CG	ASN	X	962	52.132	36.009	103.733	1.00	0.00	C
ATOM	12009	OD1	ASN	X	962	53.392	36.135	103.638	1.00	0.00	O
ATOM	12010	ND2	ASN	X	962	51.376	36.765	103.038	1.00	0.00	N
ATOM	12011	HD21	ASN	X	962	51.795	37.604	102.664	1.00	0.00	H
ATOM	12012	HD22	ASN	X	962	50.374	36.775	103.173	1.00	0.00	H
ATOM	12013	C	ASN	X	962	52.602	32.920	103.370	1.00	0.00	C
ATOM	12014	O	ASN	X	962	52.998	32.033	104.041	1.00	0.00	O
ATOM	12015	N	SER	X	963	53.253	33.414	102.282	1.00	0.00	N
ATOM	12016	H	SER	X	963	52.819	34.093	101.673	1.00	0.00	H
ATOM	12017	CA	SER	X	963	54.618	33.002	101.933	1.00	0.00	C
ATOM	12018	HA	SER	X	963	55.163	32.821	102.859	1.00	0.00	H
ATOM	12019	CB	SER	X	963	54.649	31.739	101.036	1.00	0.00	C
ATOM	12020	HB2	SER	X	963	55.640	31.572	100.616	1.00	0.00	H
ATOM	12021	HB3	SER	X	963	54.186	30.852	101.468	1.00	0.00	H
ATOM	12022	OG	SER	X	963	53.871	32.033	99.862	1.00	0.00	O
ATOM	12023	HG	SER	X	963	54.303	32.773	99.430	1.00	0.00	H
ATOM	12024	C	SER	X	963	55.429	34.153	101.300	1.00	0.00	C
ATOM	12025	O	SER	X	963	56.273	33.911	100.499	1.00	0.00	O
ATOM	12026	N	SER	X	964	55.153	35.444	101.503	1.00	0.00	N
ATOM	12027	H	SER	X	964	54.424	35.681	102.161	1.00	0.00	H
ATOM	12028	CA	SER	X	964	55.793	36.613	100.807	1.00	0.00	C
ATOM	12029	HA	SER	X	964	56.789	36.381	100.429	1.00	0.00	H
ATOM	12030	CB	SER	X	964	54.940	37.032	99.629	1.00	0.00	C
ATOM	12031	HB2	SER	X	964	55.297	37.969	99.202	1.00	0.00	H
ATOM	12032	HB3	SER	X	964	54.999	36.285	98.837	1.00	0.00	H
ATOM	12033	OG	SER	X	964	53.590	37.023	100.182	1.00	0.00	O
ATOM	12034	HG	SER	X	964	53.288	36.121	100.052	1.00	0.00	H
ATOM	12035	C	SER	X	964	56.095	37.872	101.657	1.00	0.00	C
ATOM	12036	O	SER	X	964	56.952	38.664	101.327	1.00	0.00	O
ATOM	12037	N	LEU	X	965	55.377	38.094	102.752	1.00	0.00	N
ATOM	12038	H	LEU	X	965	54.629	37.450	102.962	1.00	0.00	H
ATOM	12039	CA	LEU	X	965	55.555	39.145	103.703	1.00	0.00	C
ATOM	12040	HA	LEU	X	965	55.664	40.088	103.166	1.00	0.00	H
ATOM	12041	CB	LEU	X	965	54.357	39.223	104.592	1.00	0.00	C
ATOM	12042	HB2	LEU	X	965	53.478	39.368	103.964	1.00	0.00	H
ATOM	12043	HB3	LEU	X	965	54.227	38.296	105.151	1.00	0.00	H
ATOM	12044	CG	LEU	X	965	54.369	40.358	105.618	1.00	0.00	C
ATOM	12045	HG	LEU	X	965	55.371	40.754	105.773	1.00	0.00	H
ATOM	12046	CD1	LEU	X	965	53.539	41.545	105.004	1.00	0.00	C
ATOM	12047	HD11	LEU	X	965	52.452	41.469	105.020	1.00	0.00	H
ATOM	12048	HD12	LEU	X	965	53.813	42.434	105.572	1.00	0.00	H
ATOM	12049	HD13	LEU	X	965	53.857	41.693	103.972	1.00	0.00	H
ATOM	12050	CD2	LEU	X	965	53.796	39.888	106.991	1.00	0.00	C
ATOM	12051	HD21	LEU	X	965	52.816	39.460	106.780	1.00	0.00	H
ATOM	12052	HD22	LEU	X	965	54.440	39.110	107.402	1.00	0.00	H

ATOM	12053	HD23	LEU	X	965	53.784	40.808	107.574	1.00	0.00	H
ATOM	12054	C	LEU	X	965	56.772	38.926	104.635	1.00	0.00	C
ATOM	12055	O	LEU	X	965	56.831	38.011	105.442	1.00	0.00	O
ATOM	12056	N	LYS	X	966	57.738	39.860	104.577	1.00	0.00	N
ATOM	12057	H	LYS	X	966	57.791	40.397	103.724	1.00	0.00	H
ATOM	12058	CA	LYS	X	966	58.966	39.860	105.401	1.00	0.00	C
ATOM	12059	HA	LYS	X	966	59.277	38.822	105.528	1.00	0.00	H
ATOM	12060	CB	LYS	X	966	60.090	40.568	104.608	1.00	0.00	C
ATOM	12061	HB2	LYS	X	966	59.840	41.621	104.470	1.00	0.00	H
ATOM	12062	HB3	LYS	X	966	60.949	40.472	105.273	1.00	0.00	H
ATOM	12063	CG	LYS	X	966	60.338	39.856	103.261	1.00	0.00	C
ATOM	12064	HG2	LYS	X	966	60.717	38.834	103.289	1.00	0.00	H
ATOM	12065	HG3	LYS	X	966	59.494	39.870	102.570	1.00	0.00	H
ATOM	12066	CD	LYS	X	966	61.375	40.789	102.582	1.00	0.00	C
ATOM	12067	HD2	LYS	X	966	60.950	41.787	102.486	1.00	0.00	H
ATOM	12068	HD3	LYS	X	966	62.349	40.755	103.070	1.00	0.00	H
ATOM	12069	CE	LYS	X	966	61.571	40.206	101.165	1.00	0.00	C
ATOM	12070	HE2	LYS	X	966	62.040	39.225	101.236	1.00	0.00	H
ATOM	12071	HE3	LYS	X	966	60.624	39.992	100.669	1.00	0.00	H
ATOM	12072	NZ	LYS	X	966	62.361	41.080	100.271	1.00	0.00	N
ATOM	12073	HZ1	LYS	X	966	61.898	41.954	100.064	1.00	0.00	H
ATOM	12074	HZ2	LYS	X	966	63.295	41.252	100.616	1.00	0.00	H
ATOM	12075	HZ3	LYS	X	966	62.442	40.583	99.396	1.00	0.00	H
ATOM	12076	C	LYS	X	966	58.785	40.422	106.771	1.00	0.00	C
ATOM	12077	O	LYS	X	966	59.582	40.056	107.648	1.00	0.00	O
ATOM	12078	N	VAL	X	967	57.874	41.310	106.967	1.00	0.00	N
ATOM	12079	H	VAL	X	967	57.414	41.656	106.136	1.00	0.00	H
ATOM	12080	CA	VAL	X	967	57.746	42.139	108.139	1.00	0.00	C
ATOM	12081	HA	VAL	X	967	58.264	41.691	108.987	1.00	0.00	H
ATOM	12082	CB	VAL	X	967	58.443	43.491	107.952	1.00	0.00	C
ATOM	12083	HB	VAL	X	967	57.931	43.962	107.114	1.00	0.00	H
ATOM	12084	CG1	VAL	X	967	58.434	44.438	109.218	1.00	0.00	C
ATOM	12085	HG11	VAL	X	967	58.865	43.916	110.071	1.00	0.00	H
ATOM	12086	HG12	VAL	X	967	59.144	45.256	109.101	1.00	0.00	H
ATOM	12087	HG13	VAL	X	967	57.456	44.911	109.304	1.00	0.00	H
ATOM	12088	CG2	VAL	X	967	59.883	43.361	107.443	1.00	0.00	C
ATOM	12089	HG21	VAL	X	967	59.860	42.784	106.519	1.00	0.00	H
ATOM	12090	HG22	VAL	X	967	60.359	44.334	107.330	1.00	0.00	H
ATOM	12091	HG23	VAL	X	967	60.499	42.796	108.143	1.00	0.00	H
ATOM	12092	C	VAL	X	967	56.311	42.371	108.591	1.00	0.00	C
ATOM	12093	O	VAL	X	967	55.535	42.839	107.772	1.00	0.00	O
ATOM	12094	N	LEU	X	968	55.934	42.206	109.891	1.00	0.00	N
ATOM	12095	H	LEU	X	968	56.627	41.883	110.549	1.00	0.00	H
ATOM	12096	CA	LEU	X	968	54.611	42.467	110.450	1.00	0.00	C
ATOM	12097	HA	LEU	X	968	54.078	43.092	109.736	1.00	0.00	H
ATOM	12098	CB	LEU	X	968	53.826	41.110	110.673	1.00	0.00	C
ATOM	12099	HB2	LEU	X	968	53.702	40.622	109.706	1.00	0.00	H
ATOM	12100	HB3	LEU	X	968	54.424	40.419	111.269	1.00	0.00	H
ATOM	12101	CG	LEU	X	968	52.428	41.368	111.332	1.00	0.00	C
ATOM	12102	HG	LEU	X	968	52.559	41.703	112.362	1.00	0.00	H
ATOM	12103	CD1	LEU	X	968	51.606	42.207	110.401	1.00	0.00	C
ATOM	12104	HD11	LEU	X	968	51.938	43.211	110.132	1.00	0.00	H
ATOM	12105	HD12	LEU	X	968	51.371	41.631	109.508	1.00	0.00	H
ATOM	12106	HD13	LEU	X	968	50.690	42.513	110.906	1.00	0.00	H
ATOM	12107	CD2	LEU	X	968	51.700	40.007	111.350	1.00	0.00	C
ATOM	12108	HD21	LEU	X	968	51.982	39.497	110.428	1.00	0.00	H
ATOM	12109	HD22	LEU	X	968	52.102	39.366	112.133	1.00	0.00	H
ATOM	12110	HD23	LEU	X	968	50.631	40.110	111.535	1.00	0.00	H
ATOM	12111	C	LEU	X	968	54.777	43.223	111.789	1.00	0.00	C
ATOM	12112	O	LEU	X	968	55.594	42.695	112.563	1.00	0.00	O
ATOM	12113	N	LYS	X	969	54.148	44.346	112.095	1.00	0.00	N
ATOM	12114	H	LYS	X	969	53.569	44.767	111.381	1.00	0.00	H
ATOM	12115	CA	LYS	X	969	54.262	45.113	113.341	1.00	0.00	C
ATOM	12116	HA	LYS	X	969	55.087	44.606	113.843	1.00	0.00	H
ATOM	12117	CB	LYS	X	969	54.756	46.452	113.018	1.00	0.00	C
ATOM	12118	HB2	LYS	X	969	53.952	47.016	112.547	1.00	0.00	H
ATOM	12119	HB3	LYS	X	969	54.980	46.967	113.953	1.00	0.00	H
ATOM	12120	CG	LYS	X	969	56.036	46.447	112.071	1.00	0.00	C
ATOM	12121	HG2	LYS	X	969	56.641	45.548	112.188	1.00	0.00	H
ATOM	12122	HG3	LYS	X	969	55.764	46.269	111.030	1.00	0.00	H
ATOM	12123	CD	LYS	X	969	56.749	47.855	112.270	1.00	0.00	C
ATOM	12124	HD2	LYS	X	969	56.143	48.714	111.984	1.00	0.00	H
ATOM	12125	HD3	LYS	X	969	56.912	47.938	113.344	1.00	0.00	H
ATOM	12126	CE	LYS	X	969	58.080	47.828	111.563	1.00	0.00	C
ATOM	12127	HE2	LYS	X	969	58.770	47.351	112.257	1.00	0.00	H
ATOM	12128	HE3	LYS	X	969	58.064	47.315	110.602	1.00	0.00	H
ATOM	12129	NZ	LYS	X	969	58.578	49.278	111.470	1.00	0.00	N
ATOM	12130	HZ1	LYS	X	969	57.852	49.845	111.058	1.00	0.00	H
ATOM	12131	HZ2	LYS	X	969	58.701	49.743	112.358	1.00	0.00	H
ATOM	12132	HZ3	LYS	X	969	59.338	49.294	110.805	1.00	0.00	H
ATOM	12133	C	LYS	X	969	53.010	45.155	114.324	1.00	0.00	C
ATOM	12134	O	LYS	X	969	52.015	45.794	113.881	1.00	0.00	O

ATOM	12135	N	LEU	X	970	53.083	44.507	115.417	1.00	0.00	N
ATOM	12136	H	LEU	X	970	53.968	44.034	115.526	1.00	0.00	H
ATOM	12137	CA	LEU	X	970	51.986	44.397	116.470	1.00	0.00	C
ATOM	12138	HA	LEU	X	970	51.066	44.923	116.214	1.00	0.00	H
ATOM	12139	CB	LEU	X	970	51.752	42.926	116.732	1.00	0.00	C
ATOM	12140	HB2	LEU	X	970	52.584	42.400	117.201	1.00	0.00	H
ATOM	12141	HB3	LEU	X	970	51.002	42.860	117.520	1.00	0.00	H
ATOM	12142	CG	LEU	X	970	51.398	42.088	115.501	1.00	0.00	C
ATOM	12143	HG	LEU	X	970	52.254	42.197	114.837	1.00	0.00	H
ATOM	12144	CD1	LEU	X	970	51.208	40.600	116.034	1.00	0.00	C
ATOM	12145	HD11	LEU	X	970	52.118	40.158	116.438	1.00	0.00	H
ATOM	12146	HD12	LEU	X	970	50.415	40.585	116.782	1.00	0.00	H
ATOM	12147	HD13	LEU	X	970	50.887	39.948	115.220	1.00	0.00	H
ATOM	12148	CD2	LEU	X	970	50.230	42.618	114.665	1.00	0.00	C
ATOM	12149	HD21	LEU	X	970	50.427	43.681	114.527	1.00	0.00	H
ATOM	12150	HD22	LEU	X	970	50.099	42.039	113.750	1.00	0.00	H
ATOM	12151	HD23	LEU	X	970	49.282	42.533	115.195	1.00	0.00	H
ATOM	12152	C	LEU	X	970	52.395	45.118	117.727	1.00	0.00	C
ATOM	12153	O	LEU	X	970	51.753	44.850	118.762	1.00	0.00	O
ATOM	12154	N	SER	X	971	53.403	45.979	117.739	1.00	0.00	N
ATOM	12155	H	SER	X	971	53.830	45.962	116.824	1.00	0.00	H
ATOM	12156	CA	SER	X	971	53.850	46.761	118.912	1.00	0.00	C
ATOM	12157	HA	SER	X	971	54.162	46.009	119.636	1.00	0.00	H
ATOM	12158	CB	SER	X	971	55.012	47.679	118.509	1.00	0.00	C
ATOM	12159	HB2	SER	X	971	54.646	48.562	117.983	1.00	0.00	H
ATOM	12160	HB3	SER	X	971	55.409	48.037	119.459	1.00	0.00	H
ATOM	12161	OG	SER	X	971	55.957	47.170	117.639	1.00	0.00	O
ATOM	12162	HG	SER	X	971	56.070	47.767	116.898	1.00	0.00	H
ATOM	12163	C	SER	X	971	52.788	47.624	119.500	1.00	0.00	C
ATOM	12164	O	SER	X	971	51.880	48.059	118.797	1.00	0.00	O
ATOM	12165	N	ASN	X	972	52.889	47.899	120.768	1.00	0.00	N
ATOM	12166	H	ASN	X	972	53.631	47.479	121.311	1.00	0.00	H
ATOM	12167	CA	ASN	X	972	51.935	48.644	121.536	1.00	0.00	C
ATOM	12168	HA	ASN	X	972	52.180	48.518	122.591	1.00	0.00	H
ATOM	12169	CB	ASN	X	972	52.002	50.173	121.250	1.00	0.00	C
ATOM	12170	HB2	ASN	X	972	51.781	50.334	120.195	1.00	0.00	H
ATOM	12171	HB3	ASN	X	972	51.208	50.734	121.744	1.00	0.00	H
ATOM	12172	CG	ASN	X	972	53.296	50.929	121.563	1.00	0.00	C
ATOM	12173	OD1	ASN	X	972	54.065	51.297	120.623	1.00	0.00	O
ATOM	12174	ND2	ASN	X	972	53.535	51.236	122.764	1.00	0.00	N
ATOM	12175	HD21	ASN	X	972	54.430	51.663	122.955	1.00	0.00	H
ATOM	12176	HD22	ASN	X	972	52.852	50.891	123.424	1.00	0.00	H
ATOM	12177	C	ASN	X	972	50.447	48.110	121.497	1.00	0.00	C
ATOM	12178	O	ASN	X	972	49.520	48.893	121.712	1.00	0.00	O
ATOM	12179	N	ASN	X	973	50.129	46.829	121.161	1.00	0.00	N
ATOM	12180	H	ASN	X	973	50.863	46.168	120.949	1.00	0.00	H
ATOM	12181	CA	ASN	X	973	48.824	46.237	121.222	1.00	0.00	C
ATOM	12182	HA	ASN	X	973	48.012	46.955	121.107	1.00	0.00	H
ATOM	12183	CB	ASN	X	973	48.592	45.243	120.128	1.00	0.00	C
ATOM	12184	HB2	ASN	X	973	49.413	44.527	120.179	1.00	0.00	H
ATOM	12185	HB3	ASN	X	973	47.663	44.693	120.281	1.00	0.00	H
ATOM	12186	CG	ASN	X	973	48.294	45.923	118.808	1.00	0.00	C
ATOM	12187	OD1	ASN	X	973	47.178	46.015	118.281	1.00	0.00	O
ATOM	12188	ND2	ASN	X	973	49.318	46.267	118.141	1.00	0.00	N
ATOM	12189	HD21	ASN	X	973	49.185	46.680	117.229	1.00	0.00	H
ATOM	12190	HD22	ASN	X	973	50.238	46.401	118.536	1.00	0.00	H
ATOM	12191	C	ASN	X	973	48.655	45.647	122.619	1.00	0.00	C
ATOM	12192	O	ASN	X	973	49.127	46.192	123.595	1.00	0.00	O
ATOM	12193	N	CYS	X	974	47.812	44.663	122.778	1.00	0.00	N
ATOM	12194	H	CYS	X	974	47.391	44.286	121.940	1.00	0.00	H
ATOM	12195	CA	CYS	X	974	47.042	44.329	123.983	1.00	0.00	C
ATOM	12196	HA	CYS	X	974	47.469	44.905	124.803	1.00	0.00	H
ATOM	12197	CB	CYS	X	974	45.581	44.720	123.945	1.00	0.00	C
ATOM	12198	HB2	CYS	X	974	45.080	44.380	123.038	1.00	0.00	H
ATOM	12199	HB3	CYS	X	974	45.182	44.509	124.938	1.00	0.00	H
ATOM	12200	SG	CYS	X	974	45.579	46.457	123.763	1.00	0.00	S
ATOM	12201	HG	CYS	X	974	46.293	46.708	124.863	1.00	0.00	H
ATOM	12202	C	CYS	X	974	47.163	42.761	124.248	1.00	0.00	C
ATOM	12203	O	CYS	X	974	46.253	42.087	124.735	1.00	0.00	O
ATOM	12204	N	ILE	X	975	48.320	42.163	123.703	1.00	0.00	N
ATOM	12205	H	ILE	X	975	48.986	42.744	123.213	1.00	0.00	H
ATOM	12206	CA	ILE	X	975	48.305	40.740	123.328	1.00	0.00	C
ATOM	12207	HA	ILE	X	975	47.342	40.585	122.841	1.00	0.00	H
ATOM	12208	CB	ILE	X	975	49.377	40.510	122.213	1.00	0.00	C
ATOM	12209	HB	ILE	X	975	50.282	40.871	122.702	1.00	0.00	H
ATOM	12210	CG2	ILE	X	975	49.463	38.984	121.798	1.00	0.00	C
ATOM	12211	HG21	ILE	X	975	50.150	38.883	120.960	1.00	0.00	H
ATOM	12212	HG22	ILE	X	975	50.010	38.497	122.605	1.00	0.00	H
ATOM	12213	HG23	ILE	X	975	48.473	38.570	121.603	1.00	0.00	H
ATOM	12214	CG1	ILE	X	975	48.928	41.368	121.063	1.00	0.00	C
ATOM	12215	HG12	ILE	X	975	47.954	40.969	120.781	1.00	0.00	H
ATOM	12216	HG13	ILE	X	975	48.861	42.420	121.339	1.00	0.00	H

ATOM	12217	CD1	ILE	X	975	49.711	41.349	119.769	1.00	0.00	C
ATOM	12218	HD11	ILE	X	975	49.467	40.378	119.338	1.00	0.00	H
ATOM	12219	HD12	ILE	X	975	49.289	42.049	119.049	1.00	0.00	H
ATOM	12220	HD13	ILE	X	975	50.768	41.391	120.034	1.00	0.00	H
ATOM	12221	C	ILE	X	975	48.438	39.637	124.423	1.00	0.00	C
ATOM	12222	O	ILE	X	975	49.291	39.743	125.303	1.00	0.00	O
ATOM	12223	N	THR	X	976	47.609	38.637	124.309	1.00	0.00	N
ATOM	12224	H	THR	X	976	46.975	38.626	123.524	1.00	0.00	H
ATOM	12225	CA	THR	X	976	47.649	37.456	125.193	1.00	0.00	C
ATOM	12226	HA	THR	X	976	47.645	37.802	126.227	1.00	0.00	H
ATOM	12227	CB	THR	X	976	46.399	36.678	125.028	1.00	0.00	C
ATOM	12228	HB	THR	X	976	46.514	35.812	125.678	1.00	0.00	H
ATOM	12229	CG2	THR	X	976	45.139	37.433	125.428	1.00	0.00	C
ATOM	12230	HG21	THR	X	976	44.476	36.703	125.894	1.00	0.00	H
ATOM	12231	HG22	THR	X	976	45.396	38.182	126.176	1.00	0.00	H
ATOM	12232	HG23	THR	X	976	44.610	37.937	124.620	1.00	0.00	H
ATOM	12233	OG1	THR	X	976	46.070	36.181	123.767	1.00	0.00	O
ATOM	12234	HG1	THR	X	976	45.896	36.868	123.122	1.00	0.00	H
ATOM	12235	C	THR	X	976	48.813	36.512	124.850	1.00	0.00	C
ATOM	12236	O	THR	X	976	49.279	36.353	123.663	1.00	0.00	O
ATOM	12237	N	PHE	X	977	49.257	35.704	125.876	1.00	0.00	N
ATOM	12238	H	PHE	X	977	48.649	35.756	126.682	1.00	0.00	H
ATOM	12239	CA	PHE	X	977	50.219	34.612	125.786	1.00	0.00	C
ATOM	12240	HA	PHE	X	977	51.136	35.035	125.377	1.00	0.00	H
ATOM	12241	CB	PHE	X	977	50.646	34.053	127.106	1.00	0.00	C
ATOM	12242	HB2	PHE	X	977	50.736	34.898	127.788	1.00	0.00	H
ATOM	12243	HB3	PHE	X	977	49.971	33.368	127.619	1.00	0.00	H
ATOM	12244	CG	PHE	X	977	52.048	33.382	127.089	1.00	0.00	C
ATOM	12245	CD1	PHE	X	977	52.097	31.979	126.747	1.00	0.00	C
ATOM	12246	HD1	PHE	X	977	51.152	31.462	126.661	1.00	0.00	H
ATOM	12247	CE1	PHE	X	977	53.305	31.261	126.644	1.00	0.00	C
ATOM	12248	HE1	PHE	X	977	53.367	30.193	126.496	1.00	0.00	H
ATOM	12249	CZ	PHE	X	977	54.500	31.928	126.902	1.00	0.00	C
ATOM	12250	HZ	PHE	X	977	55.413	31.351	126.911	1.00	0.00	H
ATOM	12251	CE2	PHE	X	977	54.456	33.307	127.305	1.00	0.00	C
ATOM	12252	HE2	PHE	X	977	55.411	33.765	127.512	1.00	0.00	H
ATOM	12253	CD2	PHE	X	977	53.272	34.043	127.290	1.00	0.00	C
ATOM	12254	HD2	PHE	X	977	53.296	35.106	127.488	1.00	0.00	H
ATOM	12255	C	PHE	X	977	49.751	33.500	124.843	1.00	0.00	C
ATOM	12256	O	PHE	X	977	50.492	32.991	124.003	1.00	0.00	O
ATOM	12257	N	VAL	X	978	48.412	33.190	124.874	1.00	0.00	N
ATOM	12258	H	VAL	X	978	47.887	33.506	125.675	1.00	0.00	H
ATOM	12259	CA	VAL	X	978	47.733	32.295	123.886	1.00	0.00	C
ATOM	12260	HA	VAL	X	978	48.372	31.423	123.752	1.00	0.00	H
ATOM	12261	CB	VAL	X	978	46.397	31.746	124.457	1.00	0.00	C
ATOM	12262	HB	VAL	X	978	46.626	31.241	125.395	1.00	0.00	H
ATOM	12263	CG1	VAL	X	978	45.346	32.817	124.769	1.00	0.00	C
ATOM	12264	HG11	VAL	X	978	44.891	33.108	123.822	1.00	0.00	H
ATOM	12265	HG12	VAL	X	978	44.515	32.396	125.334	1.00	0.00	H
ATOM	12266	HG13	VAL	X	978	45.715	33.705	125.282	1.00	0.00	H
ATOM	12267	CG2	VAL	X	978	45.804	30.680	123.557	1.00	0.00	C
ATOM	12268	HG21	VAL	X	978	46.610	30.010	123.259	1.00	0.00	H
ATOM	12269	HG22	VAL	X	978	45.093	30.117	124.160	1.00	0.00	H
ATOM	12270	HG23	VAL	X	978	45.450	31.084	122.608	1.00	0.00	H
ATOM	12271	C	VAL	X	978	47.766	32.867	122.462	1.00	0.00	C
ATOM	12272	O	VAL	X	978	47.881	32.137	121.493	1.00	0.00	O
ATOM	12273	N	GLY	X	979	48.028	34.196	122.366	1.00	0.00	N
ATOM	12274	H	GLY	X	979	47.991	34.652	123.265	1.00	0.00	H
ATOM	12275	CA	GLY	X	979	48.194	34.990	121.118	1.00	0.00	C
ATOM	12276	HA2	GLY	X	979	47.678	34.629	120.229	1.00	0.00	H
ATOM	12277	HA3	GLY	X	979	47.707	35.951	121.278	1.00	0.00	H
ATOM	12278	C	GLY	X	979	49.639	35.079	120.710	1.00	0.00	C
ATOM	12279	O	GLY	X	979	49.896	34.956	119.502	1.00	0.00	O
ATOM	12280	N	ALA	X	980	50.580	35.023	121.648	1.00	0.00	N
ATOM	12281	H	ALA	X	980	50.260	35.115	122.601	1.00	0.00	H
ATOM	12282	CA	ALA	X	980	51.975	34.775	121.322	1.00	0.00	C
ATOM	12283	HA	ALA	X	980	52.182	35.391	120.450	1.00	0.00	H
ATOM	12284	CB	ALA	X	980	52.875	35.242	122.475	1.00	0.00	C
ATOM	12285	HB1	ALA	X	980	52.948	34.588	123.344	1.00	0.00	H
ATOM	12286	HB2	ALA	X	980	53.900	35.374	122.128	1.00	0.00	H
ATOM	12287	HB3	ALA	X	980	52.524	36.248	122.708	1.00	0.00	H
ATOM	12288	C	ALA	X	980	52.269	33.259	121.044	1.00	0.00	C
ATOM	12289	O	ALA	X	980	52.914	32.961	120.025	1.00	0.00	O
ATOM	12290	N	GLU	X	981	51.712	32.208	121.720	1.00	0.00	N
ATOM	12291	H	GLU	X	981	51.112	32.472	122.488	1.00	0.00	H
ATOM	12292	CA	GLU	X	981	51.758	30.761	121.364	1.00	0.00	C
ATOM	12293	HA	GLU	X	981	52.770	30.364	121.405	1.00	0.00	H
ATOM	12294	CB	GLU	X	981	50.880	29.926	122.404	1.00	0.00	C
ATOM	12295	HB2	GLU	X	981	50.010	30.497	122.730	1.00	0.00	H
ATOM	12296	HB3	GLU	X	981	50.562	28.976	121.973	1.00	0.00	H
ATOM	12297	CG	GLU	X	981	51.671	29.515	123.622	1.00	0.00	C
ATOM	12298	HG2	GLU	X	981	52.087	30.461	123.970	1.00	0.00	H

ATOM	12299	HG3	GLU	X	981	50.926	29.079	124.288	1.00	0.00	H
ATOM	12300	CD	GLU	X	981	52.818	28.493	123.331	1.00	0.00	C
ATOM	12301	OE1	GLU	X	981	53.315	27.941	124.319	1.00	0.00	O
ATOM	12302	OE2	GLU	X	981	53.176	28.070	122.195	1.00	0.00	O
ATOM	12303	C	GLU	X	981	51.204	30.514	119.968	1.00	0.00	C
ATOM	12304	O	GLU	X	981	51.862	29.794	119.241	1.00	0.00	O
ATOM	12305	N	ALA	X	982	50.129	31.179	119.406	1.00	0.00	N
ATOM	12306	H	ALA	X	982	49.669	31.858	119.993	1.00	0.00	H
ATOM	12307	CA	ALA	X	982	49.713	30.993	118.025	1.00	0.00	C
ATOM	12308	HA	ALA	X	982	49.597	29.931	117.806	1.00	0.00	H
ATOM	12309	CB	ALA	X	982	48.331	31.582	117.828	1.00	0.00	C
ATOM	12310	HB1	ALA	X	982	47.988	31.304	116.832	1.00	0.00	H
ATOM	12311	HB2	ALA	X	982	47.602	31.302	118.590	1.00	0.00	H
ATOM	12312	HB3	ALA	X	982	48.420	32.666	117.895	1.00	0.00	H
ATOM	12313	C	ALA	X	982	50.665	31.646	117.007	1.00	0.00	C
ATOM	12314	O	ALA	X	982	50.765	31.200	115.841	1.00	0.00	O
ATOM	12315	N	LEU	X	983	51.424	32.682	117.380	1.00	0.00	N
ATOM	12316	H	LEU	X	983	51.226	32.963	118.330	1.00	0.00	H
ATOM	12317	CA	LEU	X	983	52.463	33.324	116.554	1.00	0.00	C
ATOM	12318	HA	LEU	X	983	51.952	33.477	115.604	1.00	0.00	H
ATOM	12319	CB	LEU	X	983	52.909	34.738	117.053	1.00	0.00	C
ATOM	12320	HB2	LEU	X	983	53.291	34.742	118.075	1.00	0.00	H
ATOM	12321	HB3	LEU	X	983	53.733	34.977	116.381	1.00	0.00	H
ATOM	12322	CG	LEU	X	983	51.884	35.814	116.900	1.00	0.00	C
ATOM	12323	HG	LEU	X	983	51.002	35.335	117.327	1.00	0.00	H
ATOM	12324	CD1	LEU	X	983	52.295	37.103	117.554	1.00	0.00	C
ATOM	12325	HD11	LEU	X	983	52.731	36.799	118.506	1.00	0.00	H
ATOM	12326	HD12	LEU	X	983	53.059	37.605	116.960	1.00	0.00	H
ATOM	12327	HD13	LEU	X	983	51.407	37.718	117.701	1.00	0.00	H
ATOM	12328	CD2	LEU	X	983	51.658	36.099	115.434	1.00	0.00	C
ATOM	12329	HD21	LEU	X	983	51.154	35.259	114.958	1.00	0.00	H
ATOM	12330	HD22	LEU	X	983	50.861	36.838	115.345	1.00	0.00	H
ATOM	12331	HD23	LEU	X	983	52.523	36.401	114.845	1.00	0.00	H
ATOM	12332	C	LEU	X	983	53.710	32.403	116.335	1.00	0.00	C
ATOM	12333	O	LEU	X	983	54.224	32.211	115.240	1.00	0.00	O
ATOM	12334	N	LEU	X	984	54.193	31.743	117.429	1.00	0.00	N
ATOM	12335	H	LEU	X	984	53.793	31.809	118.354	1.00	0.00	H
ATOM	12336	CA	LEU	X	984	55.240	30.744	117.295	1.00	0.00	C
ATOM	12337	HA	LEU	X	984	56.105	31.220	116.838	1.00	0.00	H
ATOM	12338	CB	LEU	X	984	55.606	30.209	118.706	1.00	0.00	C
ATOM	12339	HB2	LEU	X	984	54.716	30.328	119.324	1.00	0.00	H
ATOM	12340	HB3	LEU	X	984	55.944	29.175	118.633	1.00	0.00	H
ATOM	12341	CG	LEU	X	984	56.504	31.100	119.578	1.00	0.00	C
ATOM	12342	HG	LEU	X	984	56.083	32.104	119.622	1.00	0.00	H
ATOM	12343	CD1	LEU	X	984	56.664	30.718	121.066	1.00	0.00	C
ATOM	12344	HD11	LEU	X	984	57.163	31.617	121.426	1.00	0.00	H
ATOM	12345	HD12	LEU	X	984	55.680	30.663	121.531	1.00	0.00	H
ATOM	12346	HD13	LEU	X	984	57.285	29.849	121.284	1.00	0.00	H
ATOM	12347	CD2	LEU	X	984	57.941	31.157	119.017	1.00	0.00	C
ATOM	12348	HD21	LEU	X	984	58.371	32.092	119.378	1.00	0.00	H
ATOM	12349	HD22	LEU	X	984	58.514	30.315	119.401	1.00	0.00	H
ATOM	12350	HD23	LEU	X	984	57.978	31.220	117.930	1.00	0.00	H
ATOM	12351	C	LEU	X	984	54.813	29.639	116.327	1.00	0.00	C
ATOM	12352	O	LEU	X	984	55.618	29.084	115.638	1.00	0.00	O
ATOM	12353	N	GLN	X	985	53.544	29.298	116.365	1.00	0.00	N
ATOM	12354	H	GLN	X	985	52.914	29.760	117.004	1.00	0.00	H
ATOM	12355	CA	GLN	X	985	53.059	28.193	115.587	1.00	0.00	C
ATOM	12356	HA	GLN	X	985	53.760	27.365	115.693	1.00	0.00	H
ATOM	12357	CB	GLN	X	985	51.751	27.840	116.288	1.00	0.00	C
ATOM	12358	HB2	GLN	X	985	52.000	27.566	117.314	1.00	0.00	H
ATOM	12359	HB3	GLN	X	985	51.136	28.732	116.412	1.00	0.00	H
ATOM	12360	CG	GLN	X	985	50.827	26.707	115.727	1.00	0.00	C
ATOM	12361	HG2	GLN	X	985	51.448	25.903	115.332	1.00	0.00	H
ATOM	12362	HG3	GLN	X	985	50.367	26.245	116.600	1.00	0.00	H
ATOM	12363	CD	GLN	X	985	49.762	27.094	114.640	1.00	0.00	C
ATOM	12364	OE1	GLN	X	985	49.682	26.649	113.522	1.00	0.00	O
ATOM	12365	NE2	GLN	X	985	48.846	27.974	115.042	1.00	0.00	N
ATOM	12366	HE21	GLN	X	985	48.085	28.310	114.470	1.00	0.00	H
ATOM	12367	HE22	GLN	X	985	48.855	28.309	115.996	1.00	0.00	H
ATOM	12368	C	GLN	X	985	52.876	28.577	114.137	1.00	0.00	C
ATOM	12369	O	GLN	X	985	53.033	27.708	113.232	1.00	0.00	O
ATOM	12370	N	ALA	X	986	52.606	29.837	113.770	1.00	0.00	N
ATOM	12371	H	ALA	X	986	52.299	30.483	114.484	1.00	0.00	H
ATOM	12372	CA	ALA	X	986	52.518	30.276	112.329	1.00	0.00	C
ATOM	12373	HA	ALA	X	986	51.876	29.590	111.775	1.00	0.00	H
ATOM	12374	CB	ALA	X	986	51.926	31.701	112.396	1.00	0.00	C
ATOM	12375	HB1	ALA	X	986	52.548	32.315	113.046	1.00	0.00	H
ATOM	12376	HB2	ALA	X	986	51.881	32.116	111.389	1.00	0.00	H
ATOM	12377	HB3	ALA	X	986	50.929	31.730	112.835	1.00	0.00	H
ATOM	12378	C	ALA	X	986	53.835	30.326	111.596	1.00	0.00	C
ATOM	12379	O	ALA	X	986	53.966	29.854	110.472	1.00	0.00	O
ATOM	12380	N	LEU	X	987	54.821	30.751	112.282	1.00	0.00	N

ATOM	12381	H	LEU	X	987	54.464	31.149	113.141	1.00	0.00	H
ATOM	12382	CA	LEU	X	987	56.262	30.803	112.132	1.00	0.00	C
ATOM	12383	HA	LEU	X	987	56.506	31.226	111.157	1.00	0.00	H
ATOM	12384	CB	LEU	X	987	56.860	31.614	113.251	1.00	0.00	C
ATOM	12385	HB2	LEU	X	987	56.280	31.426	114.156	1.00	0.00	H
ATOM	12386	HB3	LEU	X	987	57.801	31.094	113.432	1.00	0.00	H
ATOM	12387	CG	LEU	X	987	57.194	33.153	113.114	1.00	0.00	C
ATOM	12388	HG	LEU	X	987	57.865	33.394	112.290	1.00	0.00	H
ATOM	12389	CD1	LEU	X	987	55.888	33.896	112.719	1.00	0.00	C
ATOM	12390	HD11	LEU	X	987	55.270	34.098	113.592	1.00	0.00	H
ATOM	12391	HD12	LEU	X	987	56.078	34.845	112.219	1.00	0.00	H
ATOM	12392	HD13	LEU	X	987	55.237	33.337	112.045	1.00	0.00	H
ATOM	12393	CD2	LEU	X	987	57.903	33.797	114.316	1.00	0.00	C
ATOM	12394	HD21	LEU	X	987	57.902	34.880	114.193	1.00	0.00	H
ATOM	12395	HD22	LEU	X	987	57.294	33.398	115.126	1.00	0.00	H
ATOM	12396	HD23	LEU	X	987	58.905	33.371	114.258	1.00	0.00	H
ATOM	12397	C	LEU	X	987	56.935	29.418	112.139	1.00	0.00	C
ATOM	12398	O	LEU	X	987	58.115	29.288	111.881	1.00	0.00	O
ATOM	12399	N	ALA	X	988	56.189	28.370	112.586	1.00	0.00	N
ATOM	12400	H	ALA	X	988	55.305	28.503	113.055	1.00	0.00	H
ATOM	12401	CA	ALA	X	988	56.643	26.990	112.581	1.00	0.00	C
ATOM	12402	HA	ALA	X	988	57.662	26.930	112.964	1.00	0.00	H
ATOM	12403	CB	ALA	X	988	55.729	26.052	113.402	1.00	0.00	C
ATOM	12404	HB1	ALA	X	988	54.743	25.849	112.982	1.00	0.00	H
ATOM	12405	HB2	ALA	X	988	56.171	25.083	113.633	1.00	0.00	H
ATOM	12406	HB3	ALA	X	988	55.590	26.556	114.358	1.00	0.00	H
ATOM	12407	C	ALA	X	988	56.755	26.486	111.168	1.00	0.00	C
ATOM	12408	O	ALA	X	988	57.581	25.562	110.929	1.00	0.00	O
ATOM	12409	N	SER	X	989	55.879	26.894	110.221	1.00	0.00	N
ATOM	12410	H	SER	X	989	55.158	27.504	110.580	1.00	0.00	H
ATOM	12411	CA	SER	X	989	56.011	26.550	108.746	1.00	0.00	C
ATOM	12412	HA	SER	X	989	56.805	25.804	108.719	1.00	0.00	H
ATOM	12413	CB	SER	X	989	54.760	25.833	108.280	1.00	0.00	C
ATOM	12414	HB2	SER	X	989	54.808	25.613	107.213	1.00	0.00	H
ATOM	12415	HB3	SER	X	989	54.488	25.020	108.952	1.00	0.00	H
ATOM	12416	OG	SER	X	989	53.618	26.735	108.308	1.00	0.00	O
ATOM	12417	HG	SER	X	989	53.325	26.696	109.222	1.00	0.00	H
ATOM	12418	C	SER	X	989	56.353	27.732	107.821	1.00	0.00	C
ATOM	12419	O	SER	X	989	57.024	27.560	106.821	1.00	0.00	O
ATOM	12420	N	ASN	X	990	56.050	28.938	108.262	1.00	0.00	N
ATOM	12421	H	ASN	X	990	55.353	28.828	108.985	1.00	0.00	H
ATOM	12422	CA	ASN	X	990	56.542	30.250	107.764	1.00	0.00	C
ATOM	12423	HA	ASN	X	990	56.347	30.262	106.691	1.00	0.00	H
ATOM	12424	CB	ASN	X	990	55.683	31.430	108.158	1.00	0.00	C
ATOM	12425	HB2	ASN	X	990	54.623	31.203	108.056	1.00	0.00	H
ATOM	12426	HB3	ASN	X	990	55.827	31.756	109.188	1.00	0.00	H
ATOM	12427	CG	ASN	X	990	55.962	32.608	107.168	1.00	0.00	C
ATOM	12428	OD1	ASN	X	990	57.115	32.833	106.764	1.00	0.00	O
ATOM	12429	ND2	ASN	X	990	54.924	33.308	106.787	1.00	0.00	N
ATOM	12430	HD21	ASN	X	990	55.102	34.198	106.344	1.00	0.00	H
ATOM	12431	HD22	ASN	X	990	53.971	33.139	107.073	1.00	0.00	H
ATOM	12432	C	ASN	X	990	58.067	30.509	107.984	1.00	0.00	C
ATOM	12433	O	ASN	X	990	58.524	30.843	109.087	1.00	0.00	O
ATOM	12434	N	ASP	X	991	58.901	30.302	106.944	1.00	0.00	N
ATOM	12435	H	ASP	X	991	58.558	30.076	106.022	1.00	0.00	H
ATOM	12436	CA	ASP	X	991	60.283	30.717	106.941	1.00	0.00	C
ATOM	12437	HA	ASP	X	991	60.634	30.764	107.971	1.00	0.00	H
ATOM	12438	CB	ASP	X	991	60.956	29.570	106.139	1.00	0.00	C
ATOM	12439	HB2	ASP	X	991	62.031	29.742	106.082	1.00	0.00	H
ATOM	12440	HB3	ASP	X	991	61.043	28.681	106.766	1.00	0.00	H
ATOM	12441	CG	ASP	X	991	60.445	29.170	104.759	1.00	0.00	C
ATOM	12442	OD1	ASP	X	991	59.265	29.581	104.400	1.00	0.00	O
ATOM	12443	OD2	ASP	X	991	61.123	28.497	103.989	1.00	0.00	O
ATOM	12444	C	ASP	X	991	60.565	32.038	106.151	1.00	0.00	C
ATOM	12445	O	ASP	X	991	61.638	32.509	106.168	1.00	0.00	O
ATOM	12446	N	THR	X	992	59.551	32.729	105.545	1.00	0.00	N
ATOM	12447	H	THR	X	992	58.619	32.407	105.761	1.00	0.00	H
ATOM	12448	CA	THR	X	992	59.809	33.942	104.819	1.00	0.00	C
ATOM	12449	HA	THR	X	992	60.737	33.756	104.278	1.00	0.00	H
ATOM	12450	CB	THR	X	992	58.788	34.058	103.623	1.00	0.00	C
ATOM	12451	HB	THR	X	992	57.791	33.974	104.056	1.00	0.00	H
ATOM	12452	CG2	THR	X	992	58.824	35.409	102.884	1.00	0.00	C
ATOM	12453	HG21	THR	X	992	58.382	35.294	101.895	1.00	0.00	H
ATOM	12454	HG22	THR	X	992	58.179	36.148	103.359	1.00	0.00	H
ATOM	12455	HG23	THR	X	992	59.860	35.746	102.852	1.00	0.00	H
ATOM	12456	OG1	THR	X	992	59.081	33.037	102.670	1.00	0.00	O
ATOM	12457	HG1	THR	X	992	58.420	32.371	102.875	1.00	0.00	H
ATOM	12458	C	THR	X	992	59.823	35.153	105.674	1.00	0.00	C
ATOM	12459	O	THR	X	992	60.483	36.149	105.383	1.00	0.00	O
ATOM	12460	N	ILE	X	993	58.947	35.199	106.706	1.00	0.00	N
ATOM	12461	H	ILE	X	993	58.337	34.398	106.795	1.00	0.00	H
ATOM	12462	CA	ILE	X	993	58.831	36.260	107.797	1.00	0.00	C

ATOM	12463	HA	ILE	X	993	58.491	37.225	107.421	1.00	0.00	H
ATOM	12464	CB	ILE	X	993	57.678	35.833	108.749	1.00	0.00	C
ATOM	12465	HB	ILE	X	993	56.901	35.635	108.011	1.00	0.00	H
ATOM	12466	CG2	ILE	X	993	57.919	34.525	109.457	1.00	0.00	C
ATOM	12467	HG21	ILE	X	993	58.247	33.738	108.778	1.00	0.00	H
ATOM	12468	HG22	ILE	X	993	58.581	34.579	110.321	1.00	0.00	H
ATOM	12469	HG23	ILE	X	993	57.041	34.237	110.033	1.00	0.00	H
ATOM	12470	CG1	ILE	X	993	57.280	36.859	109.848	1.00	0.00	C
ATOM	12471	HG12	ILE	X	993	56.340	36.545	110.300	1.00	0.00	H
ATOM	12472	HG13	ILE	X	993	58.021	36.949	110.642	1.00	0.00	H
ATOM	12473	CD1	ILE	X	993	56.980	38.187	109.205	1.00	0.00	C
ATOM	12474	HD11	ILE	X	993	56.738	38.888	110.004	1.00	0.00	H
ATOM	12475	HD12	ILE	X	993	57.829	38.571	108.638	1.00	0.00	H
ATOM	12476	HD13	ILE	X	993	56.202	38.117	108.445	1.00	0.00	H
ATOM	12477	C	ILE	X	993	60.212	36.397	108.454	1.00	0.00	C
ATOM	12478	O	ILE	X	993	60.797	35.406	108.876	1.00	0.00	O
ATOM	12479	N	LEU	X	994	60.746	37.593	108.451	1.00	0.00	N
ATOM	12480	H	LEU	X	994	60.289	38.434	108.123	1.00	0.00	H
ATOM	12481	CA	LEU	X	994	62.009	37.920	109.142	1.00	0.00	C
ATOM	12482	HA	LEU	X	994	62.621	37.018	109.177	1.00	0.00	H
ATOM	12483	CB	LEU	X	994	62.804	38.992	108.246	1.00	0.00	C
ATOM	12484	HB2	LEU	X	994	62.097	39.760	107.936	1.00	0.00	H
ATOM	12485	HB3	LEU	X	994	63.676	39.345	108.798	1.00	0.00	H
ATOM	12486	CG	LEU	X	994	63.311	38.350	106.945	1.00	0.00	C
ATOM	12487	HG	LEU	X	994	62.486	37.922	106.376	1.00	0.00	H
ATOM	12488	CD1	LEU	X	994	63.850	39.506	106.138	1.00	0.00	C
ATOM	12489	HD11	LEU	X	994	63.103	40.245	105.846	1.00	0.00	H
ATOM	12490	HD12	LEU	X	994	64.686	40.042	106.586	1.00	0.00	H
ATOM	12491	HD13	LEU	X	994	64.089	39.059	105.173	1.00	0.00	H
ATOM	12492	CD2	LEU	X	994	64.483	37.254	107.027	1.00	0.00	C
ATOM	12493	HD21	LEU	X	994	65.392	37.717	107.410	1.00	0.00	H
ATOM	12494	HD22	LEU	X	994	64.155	36.490	107.732	1.00	0.00	H
ATOM	12495	HD23	LEU	X	994	64.780	36.806	106.079	1.00	0.00	H
ATOM	12496	C	LEU	X	994	61.789	38.388	110.557	1.00	0.00	C
ATOM	12497	O	LEU	X	994	62.329	37.931	111.500	1.00	0.00	O
ATOM	12498	N	GLU	X	995	60.976	39.369	110.684	1.00	0.00	N
ATOM	12499	H	GLU	X	995	60.581	39.747	109.836	1.00	0.00	H
ATOM	12500	CA	GLU	X	995	60.701	40.082	111.969	1.00	0.00	C
ATOM	12501	HA	GLU	X	995	61.006	39.455	112.806	1.00	0.00	H
ATOM	12502	CB	GLU	X	995	61.421	41.435	112.041	1.00	0.00	C
ATOM	12503	HB2	GLU	X	995	60.907	42.062	112.770	1.00	0.00	H
ATOM	12504	HB3	GLU	X	995	62.378	41.234	112.523	1.00	0.00	H
ATOM	12505	CG	GLU	X	995	61.607	42.138	110.685	1.00	0.00	C
ATOM	12506	HG2	GLU	X	995	62.393	41.693	110.075	1.00	0.00	H
ATOM	12507	HG3	GLU	X	995	60.705	42.045	110.080	1.00	0.00	H
ATOM	12508	CD	GLU	X	995	61.981	43.579	110.749	1.00	0.00	C
ATOM	12509	OE1	GLU	X	995	61.837	44.289	109.790	1.00	0.00	O
ATOM	12510	OE2	GLU	X	995	62.542	43.969	111.786	1.00	0.00	O
ATOM	12511	C	GLU	X	995	59.145	40.270	112.286	1.00	0.00	C
ATOM	12512	O	GLU	X	995	58.452	41.042	111.606	1.00	0.00	O
ATOM	12513	N	VAL	X	996	58.690	39.701	113.432	1.00	0.00	N
ATOM	12514	H	VAL	X	996	59.197	39.045	114.009	1.00	0.00	H
ATOM	12515	CA	VAL	X	996	57.327	40.053	113.998	1.00	0.00	C
ATOM	12516	HA	VAL	X	996	56.756	40.613	113.259	1.00	0.00	H
ATOM	12517	CB	VAL	X	996	56.601	38.755	114.449	1.00	0.00	C
ATOM	12518	HB	VAL	X	996	57.192	38.289	115.239	1.00	0.00	H
ATOM	12519	CG1	VAL	X	996	55.242	39.018	114.998	1.00	0.00	C
ATOM	12520	HG11	VAL	X	996	54.538	39.474	114.301	1.00	0.00	H
ATOM	12521	HG12	VAL	X	996	54.699	38.142	115.351	1.00	0.00	H
ATOM	12522	HG13	VAL	X	996	55.291	39.737	115.817	1.00	0.00	H
ATOM	12523	CG2	VAL	X	996	56.549	37.678	113.333	1.00	0.00	C
ATOM	12524	HG21	VAL	X	996	56.001	38.163	112.525	1.00	0.00	H
ATOM	12525	HG22	VAL	X	996	57.517	37.235	113.099	1.00	0.00	H
ATOM	12526	HG23	VAL	X	996	56.027	36.825	113.766	1.00	0.00	H
ATOM	12527	C	VAL	X	996	57.568	40.950	115.161	1.00	0.00	C
ATOM	12528	O	VAL	X	996	57.976	40.500	116.202	1.00	0.00	O
ATOM	12529	N	TRP	X	997	57.256	42.228	115.034	1.00	0.00	N
ATOM	12530	H	TRP	X	997	56.860	42.518	114.152	1.00	0.00	H
ATOM	12531	CA	TRP	X	997	57.404	43.244	116.054	1.00	0.00	C
ATOM	12532	HA	TRP	X	997	58.259	43.005	116.686	1.00	0.00	H
ATOM	12533	CB	TRP	X	997	57.500	44.679	115.579	1.00	0.00	C
ATOM	12534	HB2	TRP	X	997	56.619	45.075	115.075	1.00	0.00	H
ATOM	12535	HB3	TRP	X	997	57.440	45.277	116.487	1.00	0.00	H
ATOM	12536	CG	TRP	X	997	58.772	45.072	114.850	1.00	0.00	C
ATOM	12537	CD1	TRP	X	997	59.471	44.322	113.974	1.00	0.00	C
ATOM	12538	HD1	TRP	X	997	59.261	43.315	113.644	1.00	0.00	H
ATOM	12539	NE1	TRP	X	997	60.492	45.061	113.405	1.00	0.00	N
ATOM	12540	HE1	TRP	X	997	61.220	44.737	112.782	1.00	0.00	H
ATOM	12541	CE2	TRP	X	997	60.576	46.250	114.024	1.00	0.00	C
ATOM	12542	CZ2	TRP	X	997	61.581	47.262	113.920	1.00	0.00	C
ATOM	12543	HZ2	TRP	X	997	62.485	47.059	113.363	1.00	0.00	H
ATOM	12544	CH2	TRP	X	997	61.391	48.448	114.735	1.00	0.00	C

ATOM	12545	HH2	TRP	X	997	62.196	49.160	114.823	1.00	0.00	H
ATOM	12546	CZ3	TRP	X	997	60.227	48.577	115.551	1.00	0.00	C
ATOM	12547	HZ3	TRP	X	997	60.078	49.491	116.105	1.00	0.00	H
ATOM	12548	CE3	TRP	X	997	59.337	47.508	115.692	1.00	0.00	C
ATOM	12549	HE3	TRP	X	997	58.441	47.620	116.287	1.00	0.00	H
ATOM	12550	CD2	TRP	X	997	59.447	46.343	114.913	1.00	0.00	C
ATOM	12551	C	TRP	X	997	56.202	43.032	117.025	1.00	0.00	C
ATOM	12552	O	TRP	X	997	55.038	42.922	116.631	1.00	0.00	O
ATOM	12553	N	LEU	X	998	56.581	43.102	118.305	1.00	0.00	N
ATOM	12554	H	LEU	X	998	57.568	43.101	118.516	1.00	0.00	H
ATOM	12555	CA	LEU	X	998	55.685	42.980	119.431	1.00	0.00	C
ATOM	12556	HA	LEU	X	998	54.679	43.142	119.044	1.00	0.00	H
ATOM	12557	CB	LEU	X	998	55.885	41.448	119.816	1.00	0.00	C
ATOM	12558	HB2	LEU	X	998	56.937	41.170	119.774	1.00	0.00	H
ATOM	12559	HB3	LEU	X	998	55.579	41.474	120.862	1.00	0.00	H
ATOM	12560	CG	LEU	X	998	54.970	40.474	119.095	1.00	0.00	C
ATOM	12561	HG	LEU	X	998	55.003	40.608	118.013	1.00	0.00	H
ATOM	12562	CD1	LEU	X	998	55.417	39.027	119.406	1.00	0.00	C
ATOM	12563	HD11	LEU	X	998	54.971	38.745	120.359	1.00	0.00	H
ATOM	12564	HD12	LEU	X	998	54.948	38.326	118.715	1.00	0.00	H
ATOM	12565	HD13	LEU	X	998	56.500	38.945	119.333	1.00	0.00	H
ATOM	12566	CD2	LEU	X	998	53.463	40.597	119.396	1.00	0.00	C
ATOM	12567	HD21	LEU	X	998	52.893	40.019	118.670	1.00	0.00	H
ATOM	12568	HD22	LEU	X	998	53.118	40.176	120.340	1.00	0.00	H
ATOM	12569	HD23	LEU	X	998	53.129	41.628	119.271	1.00	0.00	H
ATOM	12570	C	LEU	X	998	56.125	43.900	120.611	1.00	0.00	C
ATOM	12571	O	LEU	X	998	55.575	43.774	121.669	1.00	0.00	O
ATOM	12572	N	ARG	X	999	57.110	44.818	120.347	1.00	0.00	N
ATOM	12573	H	ARG	X	999	57.546	44.737	119.440	1.00	0.00	H
ATOM	12574	CA	ARG	X	999	57.610	45.695	121.299	1.00	0.00	C
ATOM	12575	HA	ARG	X	999	58.181	45.216	122.095	1.00	0.00	H
ATOM	12576	CB	ARG	X	999	58.462	46.761	120.548	1.00	0.00	C
ATOM	12577	HB2	ARG	X	999	57.777	47.312	119.905	1.00	0.00	H
ATOM	12578	HB3	ARG	X	999	59.032	47.331	121.282	1.00	0.00	H
ATOM	12579	CG	ARG	X	999	59.617	46.238	119.619	1.00	0.00	C
ATOM	12580	HG2	ARG	X	999	59.267	45.749	118.709	1.00	0.00	H
ATOM	12581	HG3	ARG	X	999	60.067	47.204	119.384	1.00	0.00	H
ATOM	12582	CD	ARG	X	999	60.685	45.380	120.371	1.00	0.00	C
ATOM	12583	HD2	ARG	X	999	60.989	45.901	121.278	1.00	0.00	H
ATOM	12584	HD3	ARG	X	999	60.183	44.426	120.537	1.00	0.00	H
ATOM	12585	NE	ARG	X	999	61.927	45.185	119.588	1.00	0.00	N
ATOM	12586	HE	ARG	X	999	61.903	45.580	118.660	1.00	0.00	H
ATOM	12587	CZ	ARG	X	999	63.089	44.731	119.930	1.00	0.00	C
ATOM	12588	NH1	ARG	X	999	63.228	44.255	121.107	1.00	0.00	N
ATOM	12589	HH11	ARG	X	999	62.467	43.979	121.712	1.00	0.00	H
ATOM	12590	HH12	ARG	X	999	64.118	43.856	121.370	1.00	0.00	H
ATOM	12591	NH2	ARG	X	999	64.112	44.881	119.190	1.00	0.00	N
ATOM	12592	HH21	ARG	X	999	64.114	45.422	118.336	1.00	0.00	H
ATOM	12593	HH22	ARG	X	999	64.978	44.839	119.706	1.00	0.00	H
ATOM	12594	C	ARG	X	999	56.507	46.456	122.079	1.00	0.00	C
ATOM	12595	O	ARG	X	999	55.444	46.752	121.569	1.00	0.00	O
ATOM	12596	N	GLY	X	1000	56.746	46.746	123.377	1.00	0.00	N
ATOM	12597	H	GLY	X	1000	57.633	46.508	123.798	1.00	0.00	H
ATOM	12598	CA	GLY	X	1000	55.761	47.541	124.199	1.00	0.00	C
ATOM	12599	HA2	GLY	X	1000	56.167	47.561	125.211	1.00	0.00	H
ATOM	12600	HA3	GLY	X	1000	55.855	48.569	123.853	1.00	0.00	H
ATOM	12601	C	GLY	X	1000	54.244	46.980	124.384	1.00	0.00	C
ATOM	12602	O	GLY	X	1000	53.315	47.648	124.916	1.00	0.00	O
ATOM	12603	N	ASN	X	1001	54.012	45.664	124.106	1.00	0.00	N
ATOM	12604	H	ASN	X	1001	54.845	45.211	123.759	1.00	0.00	H
ATOM	12605	CA	ASN	X	1001	52.826	44.838	124.472	1.00	0.00	C
ATOM	12606	HA	ASN	X	1001	51.970	45.480	124.263	1.00	0.00	H
ATOM	12607	CB	ASN	X	1001	52.789	43.617	123.648	1.00	0.00	C
ATOM	12608	HB2	ASN	X	1001	53.857	43.421	123.558	1.00	0.00	H
ATOM	12609	HB3	ASN	X	1001	52.327	42.788	124.184	1.00	0.00	H
ATOM	12610	CG	ASN	X	1001	52.002	43.807	122.335	1.00	0.00	C
ATOM	12611	OD1	ASN	X	1001	50.784	43.636	122.278	1.00	0.00	O
ATOM	12612	ND2	ASN	X	1001	52.682	44.157	121.262	1.00	0.00	N
ATOM	12613	HD21	ASN	X	1001	52.081	44.171	120.452	1.00	0.00	H
ATOM	12614	HD22	ASN	X	1001	53.689	44.093	121.227	1.00	0.00	H
ATOM	12615	C	ASN	X	1001	52.798	44.589	125.992	1.00	0.00	C
ATOM	12616	O	ASN	X	1001	53.810	44.891	126.650	1.00	0.00	O
ATOM	12617	N	PRO	X	1002	51.661	44.123	126.545	1.00	0.00	N
ATOM	12618	CD	PRO	X	1002	50.416	44.189	125.856	1.00	0.00	C
ATOM	12619	HD2	PRO	X	1002	50.417	43.692	124.886	1.00	0.00	H
ATOM	12620	HD3	PRO	X	1002	50.023	45.193	125.697	1.00	0.00	H
ATOM	12621	CG	PRO	X	1002	49.521	43.465	126.807	1.00	0.00	C
ATOM	12622	HG2	PRO	X	1002	49.705	42.395	126.701	1.00	0.00	H
ATOM	12623	HG3	PRO	X	1002	48.479	43.745	126.657	1.00	0.00	H
ATOM	12624	CB	PRO	X	1002	49.960	43.908	128.175	1.00	0.00	C
ATOM	12625	HB2	PRO	X	1002	49.577	43.255	128.961	1.00	0.00	H
ATOM	12626	HB3	PRO	X	1002	49.628	44.941	128.269	1.00	0.00	H

ATOM	12627	CA	PRO	X1002	51.506	43.906	127.970	1.00	0.00	C
ATOM	12628	HA	PRO	X1002	51.922	44.765	128.496	1.00	0.00	H
ATOM	12629	C	PRO	X1002	52.084	42.552	128.634	1.00	0.00	C
ATOM	12630	O	PRO	X1002	51.746	42.267	129.797	1.00	0.00	O
ATOM	12631	N	PHE	X1003	52.997	41.832	127.917	1.00	0.00	N
ATOM	12632	H	PHE	X1003	53.245	42.034	126.960	1.00	0.00	H
ATOM	12633	CA	PHE	X1003	53.539	40.570	128.418	1.00	0.00	C
ATOM	12634	HA	PHE	X1003	52.730	39.866	128.610	1.00	0.00	H
ATOM	12635	CB	PHE	X1003	54.489	40.046	127.302	1.00	0.00	C
ATOM	12636	HB2	PHE	X1003	55.357	40.687	127.151	1.00	0.00	H
ATOM	12637	HB3	PHE	X1003	54.802	39.065	127.658	1.00	0.00	H
ATOM	12638	CG	PHE	X1003	53.979	39.789	125.923	1.00	0.00	C
ATOM	12639	CD1	PHE	X1003	53.090	38.700	125.708	1.00	0.00	C
ATOM	12640	HD1	PHE	X1003	52.877	38.054	126.547	1.00	0.00	H
ATOM	12641	CE1	PHE	X1003	52.562	38.420	124.430	1.00	0.00	C
ATOM	12642	HE1	PHE	X1003	51.863	37.605	124.311	1.00	0.00	H
ATOM	12643	CZ	PHE	X1003	52.996	39.190	123.319	1.00	0.00	C
ATOM	12644	HZ	PHE	X1003	52.549	38.873	122.389	1.00	0.00	H
ATOM	12645	CE2	PHE	X1003	53.872	40.286	123.435	1.00	0.00	C
ATOM	12646	HE2	PHE	X1003	54.207	40.859	122.584	1.00	0.00	H
ATOM	12647	CD2	PHE	X1003	54.292	40.591	124.792	1.00	0.00	C
ATOM	12648	HD2	PHE	X1003	54.944	41.435	124.961	1.00	0.00	H
ATOM	12649	C	PHE	X1003	54.397	40.736	129.728	1.00	0.00	C
ATOM	12650	O	PHE	X1003	55.068	41.748	129.873	1.00	0.00	O
ATOM	12651	N	SER	X1004	54.539	39.721	130.571	1.00	0.00	N
ATOM	12652	H	SER	X1004	54.073	38.868	130.298	1.00	0.00	H
ATOM	12653	CA	SER	X1004	55.432	39.667	131.745	1.00	0.00	C
ATOM	12654	HA	SER	X1004	55.472	40.694	132.115	1.00	0.00	H
ATOM	12655	CB	SER	X1004	54.843	39.000	132.940	1.00	0.00	C
ATOM	12656	HB2	SER	X1004	54.615	37.957	132.727	1.00	0.00	H
ATOM	12657	HB3	SER	X1004	55.605	39.015	133.720	1.00	0.00	H
ATOM	12658	OG	SER	X1004	53.542	39.588	133.345	1.00	0.00	O
ATOM	12659	HG	SER	X1004	52.892	38.929	133.087	1.00	0.00	H
ATOM	12660	C	SER	X1004	56.860	39.279	131.417	1.00	0.00	C
ATOM	12661	O	SER	X1004	57.095	38.672	130.424	1.00	0.00	O
ATOM	12662	N	PRO	X1005	57.842	39.895	132.164	1.00	0.00	N
ATOM	12663	CD	PRO	X1005	57.789	40.859	133.302	1.00	0.00	C
ATOM	12664	HD2	PRO	X1005	57.691	40.348	134.260	1.00	0.00	H
ATOM	12665	HD3	PRO	X1005	56.874	41.451	133.317	1.00	0.00	H
ATOM	12666	CG	PRO	X1005	59.119	41.596	133.246	1.00	0.00	C
ATOM	12667	HG2	PRO	X1005	59.442	41.876	134.249	1.00	0.00	H
ATOM	12668	HG3	PRO	X1005	59.107	42.508	132.649	1.00	0.00	H
ATOM	12669	CB	PRO	X1005	60.066	40.512	132.630	1.00	0.00	C
ATOM	12670	HB2	PRO	X1005	60.419	39.842	133.412	1.00	0.00	H
ATOM	12671	HB3	PRO	X1005	60.964	41.009	132.262	1.00	0.00	H
ATOM	12672	CA	PRO	X1005	59.156	39.863	131.603	1.00	0.00	C
ATOM	12673	HA	PRO	X1005	59.284	40.463	130.701	1.00	0.00	H
ATOM	12674	C	PRO	X1005	59.783	38.452	131.326	1.00	0.00	C
ATOM	12675	O	PRO	X1005	60.468	38.289	130.294	1.00	0.00	O
ATOM	12676	N	GLU	X1006	59.400	37.406	132.074	1.00	0.00	N
ATOM	12677	H	GLU	X1006	58.722	37.527	132.813	1.00	0.00	H
ATOM	12678	CA	GLU	X1006	59.886	35.992	131.884	1.00	0.00	C
ATOM	12679	HA	GLU	X1006	60.974	36.007	131.842	1.00	0.00	H
ATOM	12680	CB	GLU	X1006	59.616	35.249	133.205	1.00	0.00	C
ATOM	12681	HB2	GLU	X1006	60.204	35.778	133.954	1.00	0.00	H
ATOM	12682	HB3	GLU	X1006	58.558	35.330	133.456	1.00	0.00	H
ATOM	12683	CG	GLU	X1006	60.039	33.768	133.254	1.00	0.00	C
ATOM	12684	HG2	GLU	X1006	59.376	33.066	132.748	1.00	0.00	H
ATOM	12685	HG3	GLU	X1006	60.980	33.581	132.739	1.00	0.00	H
ATOM	12686	CD	GLU	X1006	60.089	33.234	134.682	1.00	0.00	C
ATOM	12687	OE1	GLU	X1006	59.579	32.102	135.009	1.00	0.00	O
ATOM	12688	OE2	GLU	X1006	60.725	33.886	135.553	1.00	0.00	O
ATOM	12689	C	GLU	X1006	59.146	35.322	130.626	1.00	0.00	C
ATOM	12690	O	GLU	X1006	59.480	34.247	130.079	1.00	0.00	O
ATOM	12691	N	GLU	X1007	58.039	35.890	130.192	1.00	0.00	N
ATOM	12692	H	GLU	X1007	57.713	36.735	130.640	1.00	0.00	H
ATOM	12693	CA	GLU	X1007	57.219	35.415	129.020	1.00	0.00	C
ATOM	12694	HA	GLU	X1007	57.003	34.353	129.146	1.00	0.00	H
ATOM	12695	CB	GLU	X1007	55.796	36.103	129.055	1.00	0.00	C
ATOM	12696	HB2	GLU	X1007	55.812	37.193	129.055	1.00	0.00	H
ATOM	12697	HB3	GLU	X1007	55.296	35.832	128.125	1.00	0.00	H
ATOM	12698	CG	GLU	X1007	54.975	35.685	130.321	1.00	0.00	C
ATOM	12699	HG2	GLU	X1007	54.822	34.605	130.317	1.00	0.00	H
ATOM	12700	HG3	GLU	X1007	55.527	35.850	131.246	1.00	0.00	H
ATOM	12701	CD	GLU	X1007	53.646	36.385	130.561	1.00	0.00	C
ATOM	12702	OE1	GLU	X1007	52.993	36.118	131.594	1.00	0.00	O
ATOM	12703	OE2	GLU	X1007	53.244	37.278	129.802	1.00	0.00	O
ATOM	12704	C	GLU	X1007	57.934	35.691	127.710	1.00	0.00	C
ATOM	12705	O	GLU	X1007	58.294	34.842	126.937	1.00	0.00	O
ATOM	12706	N	MET	X1008	58.357	36.968	127.563	1.00	0.00	N
ATOM	12707	H	MET	X1008	58.156	37.597	128.327	1.00	0.00	H
ATOM	12708	CA	MET	X1008	59.095	37.529	126.441	1.00	0.00	C

ATOM	12709	HA	MET	X1008	58.440	37.222	125.626	1.00	0.00	H
ATOM	12710	CB	MET	X1008	59.284	39.061	126.499	1.00	0.00	C
ATOM	12711	HB2	MET	X1008	59.802	39.333	127.417	1.00	0.00	H
ATOM	12712	HB3	MET	X1008	59.904	39.429	125.681	1.00	0.00	H
ATOM	12713	CG	MET	X1008	58.030	39.912	126.565	1.00	0.00	C
ATOM	12714	HG2	MET	X1008	57.327	39.592	125.798	1.00	0.00	H
ATOM	12715	HG3	MET	X1008	57.474	39.592	127.447	1.00	0.00	H
ATOM	12716	SD	MET	X1008	58.210	41.697	126.698	1.00	0.00	S
ATOM	12717	CE	MET	X1008	58.600	41.720	128.404	1.00	0.00	C
ATOM	12718	HE1	MET	X1008	59.439	41.047	128.587	1.00	0.00	H
ATOM	12719	HE2	MET	X1008	58.895	42.730	128.687	1.00	0.00	H
ATOM	12720	HE3	MET	X1008	57.855	41.373	129.119	1.00	0.00	H
ATOM	12721	C	MET	X1008	60.445	36.834	126.323	1.00	0.00	C
ATOM	12722	O	MET	X1008	60.800	36.508	125.166	1.00	0.00	O
ATOM	12723	N	GLU	X1009	61.089	36.554	127.488	1.00	0.00	N
ATOM	12724	H	GLU	X1009	60.610	36.914	128.304	1.00	0.00	H
ATOM	12725	CA	GLU	X1009	62.352	35.739	127.546	1.00	0.00	C
ATOM	12726	HA	GLU	X1009	63.126	36.357	127.091	1.00	0.00	H
ATOM	12727	CB	GLU	X1009	62.589	35.577	129.101	1.00	0.00	C
ATOM	12728	HB2	GLU	X1009	62.501	36.596	129.480	1.00	0.00	H
ATOM	12729	HB3	GLU	X1009	61.799	34.919	129.466	1.00	0.00	H
ATOM	12730	CG	GLU	X1009	63.915	34.958	129.424	1.00	0.00	C
ATOM	12731	HG2	GLU	X1009	64.096	34.931	130.498	1.00	0.00	H
ATOM	12732	HG3	GLU	X1009	63.991	33.913	129.125	1.00	0.00	H
ATOM	12733	CD	GLU	X1009	65.169	35.663	128.788	1.00	0.00	C
ATOM	12734	OE1	GLU	X1009	65.586	36.707	129.365	1.00	0.00	O
ATOM	12735	OE2	GLU	X1009	65.873	35.079	127.931	1.00	0.00	O
ATOM	12736	C	GLU	X1009	62.181	34.382	126.832	1.00	0.00	C
ATOM	12737	O	GLU	X1009	63.040	34.102	125.960	1.00	0.00	O
ATOM	12738	N	ALA	X1010	61.137	33.558	127.188	1.00	0.00	N
ATOM	12739	H	ALA	X1010	60.600	33.832	127.999	1.00	0.00	H
ATOM	12740	CA	ALA	X1010	60.981	32.222	126.649	1.00	0.00	C
ATOM	12741	HA	ALA	X1010	61.856	31.581	126.761	1.00	0.00	H
ATOM	12742	CB	ALA	X1010	59.930	31.499	127.520	1.00	0.00	C
ATOM	12743	HB1	ALA	X1010	59.931	30.421	127.360	1.00	0.00	H
ATOM	12744	HB2	ALA	X1010	60.250	31.615	128.554	1.00	0.00	H
ATOM	12745	HB3	ALA	X1010	58.932	31.929	127.418	1.00	0.00	H
ATOM	12746	C	ALA	X1010	60.525	32.222	125.151	1.00	0.00	C
ATOM	12747	O	ALA	X1010	61.002	31.501	124.337	1.00	0.00	O
ATOM	12748	N	LEU	X1011	59.694	33.201	124.792	1.00	0.00	N
ATOM	12749	H	LEU	X1011	59.364	33.865	125.478	1.00	0.00	H
ATOM	12750	CA	LEU	X1011	59.083	33.307	123.467	1.00	0.00	C
ATOM	12751	HA	LEU	X1011	58.690	32.318	123.227	1.00	0.00	H
ATOM	12752	CB	LEU	X1011	58.044	34.497	123.460	1.00	0.00	C
ATOM	12753	HB2	LEU	X1011	58.473	35.440	123.796	1.00	0.00	H
ATOM	12754	HB3	LEU	X1011	57.810	34.709	122.416	1.00	0.00	H
ATOM	12755	CG	LEU	X1011	56.691	34.213	124.193	1.00	0.00	C
ATOM	12756	HG	LEU	X1011	56.785	33.803	125.197	1.00	0.00	H
ATOM	12757	CD1	LEU	X1011	55.992	35.575	124.289	1.00	0.00	C
ATOM	12758	HD11	LEU	X1011	56.400	36.210	125.075	1.00	0.00	H
ATOM	12759	HD12	LEU	X1011	55.965	36.053	123.311	1.00	0.00	H
ATOM	12760	HD13	LEU	X1011	54.970	35.428	124.641	1.00	0.00	H
ATOM	12761	CD2	LEU	X1011	55.791	33.253	123.357	1.00	0.00	C
ATOM	12762	HD21	LEU	X1011	56.333	32.307	123.371	1.00	0.00	H
ATOM	12763	HD22	LEU	X1011	54.818	33.121	123.828	1.00	0.00	H
ATOM	12764	HD23	LEU	X1011	55.626	33.580	122.328	1.00	0.00	H
ATOM	12765	C	LEU	X1011	60.204	33.608	122.476	1.00	0.00	C
ATOM	12766	O	LEU	X1011	60.313	32.935	121.418	1.00	0.00	O
ATOM	12767	N	SER	X1012	61.059	34.600	122.732	1.00	0.00	N
ATOM	12768	H	SER	X1012	61.097	35.031	123.645	1.00	0.00	H
ATOM	12769	CA	SER	X1012	62.128	34.929	121.819	1.00	0.00	C
ATOM	12770	HA	SER	X1012	61.750	35.119	120.816	1.00	0.00	H
ATOM	12771	CB	SER	X1012	62.759	36.296	122.340	1.00	0.00	C
ATOM	12772	HB2	SER	X1012	63.670	36.459	121.764	1.00	0.00	H
ATOM	12773	HB3	SER	X1012	62.062	37.119	122.180	1.00	0.00	H
ATOM	12774	OG	SER	X1012	63.033	36.227	123.716	1.00	0.00	O
ATOM	12775	HG	SER	X1012	62.178	36.450	124.091	1.00	0.00	H
ATOM	12776	C	SER	X1012	63.353	33.928	121.816	1.00	0.00	C
ATOM	12777	O	SER	X1012	64.088	33.835	120.842	1.00	0.00	O
ATOM	12778	N	HID	X1013	63.448	33.119	122.907	1.00	0.00	N
ATOM	12779	H	HID	X1013	62.846	33.193	123.716	1.00	0.00	H
ATOM	12780	CA	HID	X1013	64.192	31.844	122.927	1.00	0.00	C
ATOM	12781	HA	HID	X1013	65.225	31.984	122.606	1.00	0.00	H
ATOM	12782	CB	HID	X1013	64.221	31.385	124.387	1.00	0.00	C
ATOM	12783	HB2	HID	X1013	65.111	31.723	124.918	1.00	0.00	H
ATOM	12784	HB3	HID	X1013	63.300	31.686	124.885	1.00	0.00	H
ATOM	12785	CG	HID	X1013	64.438	29.857	124.443	1.00	0.00	C
ATOM	12786	ND1	HID	X1013	65.480	29.098	123.921	1.00	0.00	N
ATOM	12787	HD1	HID	X1013	66.354	29.457	123.564	1.00	0.00	H
ATOM	12788	CE1	HID	X1013	65.079	27.814	123.937	1.00	0.00	C
ATOM	12789	HE1	HID	X1013	65.704	26.999	123.603	1.00	0.00	H
ATOM	12790	NE2	HID	X1013	63.908	27.664	124.542	1.00	0.00	N

ATOM	12791	CD2	HID	X1013	63.483	28.971	124.813	1.00	0.00		C
ATOM	12792	HD2	HID	X1013	62.604	29.230	125.384	1.00	0.00		H
ATOM	12793	C	HID	X1013	63.606	30.873	121.918	1.00	0.00		C
ATOM	12794	O	HID	X1013	64.294	30.341	121.052	1.00	0.00		O
ATOM	12795	N	ARG	X1014	62.302	30.536	122.056	1.00	0.00		N
ATOM	12796	H	ARG	X1014	61.801	30.911	122.848	1.00	0.00		H
ATOM	12797	CA	ARG	X1014	61.602	29.608	121.098	1.00	0.00		C
ATOM	12798	HA	ARG	X1014	62.166	28.677	121.027	1.00	0.00		H
ATOM	12799	CB	ARG	X1014	60.256	29.421	121.775	1.00	0.00		C
ATOM	12800	HB2	ARG	X1014	59.703	30.344	121.955	1.00	0.00		H
ATOM	12801	HB3	ARG	X1014	59.574	28.938	121.075	1.00	0.00		H
ATOM	12802	CG	ARG	X1014	60.274	28.547	123.015	1.00	0.00		C
ATOM	12803	HG2	ARG	X1014	60.679	27.597	122.667	1.00	0.00		H
ATOM	12804	HG3	ARG	X1014	61.111	28.947	123.589	1.00	0.00		H
ATOM	12805	CD	ARG	X1014	58.899	28.385	123.758	1.00	0.00		C
ATOM	12806	HD2	ARG	X1014	58.953	27.717	124.617	1.00	0.00		H
ATOM	12807	HD3	ARG	X1014	58.647	29.412	124.020	1.00	0.00		H
ATOM	12808	NE	ARG	X1014	57.964	27.784	122.854	1.00	0.00		N
ATOM	12809	HE	ARG	X1014	58.397	27.217	122.137	1.00	0.00		H
ATOM	12810	CZ	ARG	X1014	56.695	27.814	122.978	1.00	0.00		C
ATOM	12811	NH1	ARG	X1014	56.071	28.144	124.094	1.00	0.00		N
ATOM	12812	HH11	ARG	X1014	56.599	28.195	124.954	1.00	0.00		H
ATOM	12813	HH12	ARG	X1014	55.074	28.034	124.218	1.00	0.00		H
ATOM	12814	NH2	ARG	X1014	55.924	27.571	121.960	1.00	0.00		N
ATOM	12815	HH21	ARG	X1014	56.179	27.339	121.011	1.00	0.00		H
ATOM	12816	HH22	ARG	X1014	54.941	27.775	122.077	1.00	0.00		H
ATOM	12817	C	ARG	X1014	61.532	29.989	119.645	1.00	0.00		C
ATOM	12818	O	ARG	X1014	61.857	29.148	118.756	1.00	0.00		O
ATOM	12819	N	ASP	X1015	61.397	31.282	119.357	1.00	0.00		N
ATOM	12820	H	ASP	X1015	60.996	31.890	120.056	1.00	0.00		H
ATOM	12821	CA	ASP	X1015	61.689	31.982	118.062	1.00	0.00		C
ATOM	12822	HA	ASP	X1015	62.589	31.459	117.740	1.00	0.00		H
ATOM	12823	CB	ASP	X1015	60.609	31.651	116.936	1.00	0.00		C
ATOM	12824	HB2	ASP	X1015	60.261	30.636	117.123	1.00	0.00		H
ATOM	12825	HB3	ASP	X1015	59.803	32.375	117.056	1.00	0.00		H
ATOM	12826	CG	ASP	X1015	61.148	31.635	115.487	1.00	0.00		C
ATOM	12827	OD1	ASP	X1015	60.462	31.058	114.625	1.00	0.00		O
ATOM	12828	OD2	ASP	X1015	62.241	32.182	115.176	1.00	0.00		O
ATOM	12829	C	ASP	X1015	62.223	33.422	117.975	1.00	0.00		C
ATOM	12830	O	ASP	X1015	61.366	34.337	118.035	1.00	0.00		O
ATOM	12831	N	SER	X1016	63.541	33.672	117.836	1.00	0.00		N
ATOM	12832	H	SER	X1016	64.033	32.842	117.540	1.00	0.00		H
ATOM	12833	CA	SER	X1016	64.190	34.980	117.782	1.00	0.00		C
ATOM	12834	HA	SER	X1016	64.191	35.494	118.744	1.00	0.00		H
ATOM	12835	CB	SER	X1016	65.611	34.736	117.415	1.00	0.00		C
ATOM	12836	HB2	SER	X1016	65.937	35.757	117.218	1.00	0.00		H
ATOM	12837	HB3	SER	X1016	66.108	34.233	118.245	1.00	0.00		H
ATOM	12838	OG	SER	X1016	65.770	33.988	116.130	1.00	0.00		O
ATOM	12839	HG	SER	X1016	65.594	33.046	116.190	1.00	0.00		H
ATOM	12840	C	SER	X1016	63.613	35.934	116.765	1.00	0.00		C
ATOM	12841	O	SER	X1016	63.854	37.151	116.982	1.00	0.00		O
ATOM	12842	N	ARG	X1017	62.868	35.535	115.700	1.00	0.00		N
ATOM	12843	H	ARG	X1017	62.712	34.537	115.712	1.00	0.00		H
ATOM	12844	CA	ARG	X1017	62.078	36.359	114.761	1.00	0.00		C
ATOM	12845	HA	ARG	X1017	62.741	37.082	114.285	1.00	0.00		H
ATOM	12846	CB	ARG	X1017	61.673	35.435	113.555	1.00	0.00		C
ATOM	12847	HB2	ARG	X1017	60.950	34.670	113.835	1.00	0.00		H
ATOM	12848	HB3	ARG	X1017	61.161	36.162	112.924	1.00	0.00		H
ATOM	12849	CG	ARG	X1017	62.901	34.816	112.889	1.00	0.00		C
ATOM	12850	HG2	ARG	X1017	63.519	35.590	112.436	1.00	0.00		H
ATOM	12851	HG3	ARG	X1017	63.522	34.238	113.573	1.00	0.00		H
ATOM	12852	CD	ARG	X1017	62.372	33.962	111.723	1.00	0.00		C
ATOM	12853	HD2	ARG	X1017	61.601	34.467	111.142	1.00	0.00		H
ATOM	12854	HD3	ARG	X1017	63.286	33.702	111.188	1.00	0.00		H
ATOM	12855	NE	ARG	X1017	61.784	32.703	112.081	1.00	0.00		N
ATOM	12856	HE	ARG	X1017	61.597	32.534	113.059	1.00	0.00		H
ATOM	12857	CZ	ARG	X1017	61.037	31.958	111.239	1.00	0.00		C
ATOM	12858	NH1	ARG	X1017	60.918	32.115	109.921	1.00	0.00		N
ATOM	12859	HH11	ARG	X1017	61.485	32.721	109.345	1.00	0.00		H
ATOM	12860	HH12	ARG	X1017	60.238	31.547	109.436	1.00	0.00		H
ATOM	12861	NH2	ARG	X1017	60.300	31.000	111.691	1.00	0.00		N
ATOM	12862	HH21	ARG	X1017	60.271	30.899	112.695	1.00	0.00		H
ATOM	12863	HH22	ARG	X1017	59.694	30.436	111.114	1.00	0.00		H
ATOM	12864	C	ARG	X1017	60.920	37.089	115.417	1.00	0.00		C
ATOM	12865	O	ARG	X1017	60.389	37.977	114.818	1.00	0.00		O
ATOM	12866	N	LEU	X1018	60.578	36.724	116.645	1.00	0.00		N
ATOM	12867	H	LEU	X1018	61.230	36.122	117.128	1.00	0.00		H
ATOM	12868	CA	LEU	X1018	59.819	37.610	117.527	1.00	0.00		C
ATOM	12869	HA	LEU	X1018	59.037	38.187	117.033	1.00	0.00		H
ATOM	12870	CB	LEU	X1018	59.176	36.849	118.715	1.00	0.00		C
ATOM	12871	HB2	LEU	X1018	59.990	36.619	119.403	1.00	0.00		H
ATOM	12872	HB3	LEU	X1018	58.492	37.569	119.165	1.00	0.00		H

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ATOM  12873  CG  LEU X1018      58.334  35.540 118.379  1.00  0.00           C
ATOM  12874  HG  LEU X1018      58.983  34.791 117.924  1.00  0.00           H
ATOM  12875  CD1 LEU X1018      57.591  35.062 119.663  1.00  0.00           C
ATOM  12876 HD11 LEU X1018      57.036  35.911 120.059  1.00  0.00           H
ATOM  12877 HD12 LEU X1018      56.863  34.323 119.327  1.00  0.00           H
ATOM  12878 HD13 LEU X1018      58.250  34.665 120.435  1.00  0.00           H
ATOM  12879  CD2 LEU X1018      57.125  35.989 117.431  1.00  0.00           C
ATOM  12880 HD21 LEU X1018      57.551  36.183 116.448  1.00  0.00           H
ATOM  12881 HD22 LEU X1018      56.372  35.203 117.435  1.00  0.00           H
ATOM  12882 HD23 LEU X1018      56.652  36.926 117.726  1.00  0.00           H
ATOM  12883  C   LEU X1018      60.692  38.769 118.092  1.00  0.00           C
ATOM  12884  O   LEU X1018      61.711  38.513 118.671  1.00  0.00           O
ATOM  12885  N   LEU X1019      60.261  40.011 117.871  1.00  0.00           N
ATOM  12886  H   LEU X1019      59.408  40.131 117.342  1.00  0.00           H
ATOM  12887  CA  LEU X1019      60.814  41.257 118.387  1.00  0.00           C
ATOM  12888  HA  LEU X1019      61.734  41.103 118.950  1.00  0.00           H
ATOM  12889  CB  LEU X1019      61.156  42.231 117.168  1.00  0.00           C
ATOM  12890  HB2 LEU X1019      60.272  42.365 116.542  1.00  0.00           H
ATOM  12891  HB3 LEU X1019      61.394  43.265 117.415  1.00  0.00           H
ATOM  12892  CG  LEU X1019      62.322  41.841 116.211  1.00  0.00           C
ATOM  12893  HG  LEU X1019      62.417  42.691 115.536  1.00  0.00           H
ATOM  12894  CD1 LEU X1019      63.641  41.931 117.000  1.00  0.00           C
ATOM  12895 HD11 LEU X1019      63.900  42.901 117.424  1.00  0.00           H
ATOM  12896 HD12 LEU X1019      63.627  41.193 117.802  1.00  0.00           H
ATOM  12897 HD13 LEU X1019      64.485  41.578 116.406  1.00  0.00           H
ATOM  12898  CD2 LEU X1019      62.115  40.547 115.485  1.00  0.00           C
ATOM  12899 HD21 LEU X1019      61.082  40.521 115.139  1.00  0.00           H
ATOM  12900 HD22 LEU X1019      62.935  40.413 114.780  1.00  0.00           H
ATOM  12901 HD23 LEU X1019      62.226  39.746 116.215  1.00  0.00           H
ATOM  12902  C   LEU X1019      59.919  41.848 119.509  1.00  0.00           C
ATOM  12903  O   LEU X1019      59.059  42.651 119.192  1.00  0.00           O
ATOM  12904  N   LEU X1020      60.225  41.480 120.782  1.00  0.00           N
ATOM  12905  H   LEU X1020      61.020  40.879 120.941  1.00  0.00           H
ATOM  12906  CA  LEU X1020      59.428  41.828 121.945  1.00  0.00           C
ATOM  12907  HA  LEU X1020      58.469  42.240 121.632  1.00  0.00           H
ATOM  12908  CB  LEU X1020      59.187  40.536 122.736  1.00  0.00           C
ATOM  12909  HB2 LEU X1020      60.102  40.286 123.273  1.00  0.00           H
ATOM  12910  HB3 LEU X1020      58.574  40.862 123.577  1.00  0.00           H
ATOM  12911  CG  LEU X1020      58.536  39.297 122.019  1.00  0.00           C
ATOM  12912  HG  LEU X1020      58.401  39.497 120.955  1.00  0.00           H
ATOM  12913  CD1 LEU X1020      59.536  38.126 122.152  1.00  0.00           C
ATOM  12914 HD11 LEU X1020      59.635  37.880 123.209  1.00  0.00           H
ATOM  12915 HD12 LEU X1020      59.349  37.308 121.457  1.00  0.00           H
ATOM  12916 HD13 LEU X1020      60.486  38.556 121.840  1.00  0.00           H
ATOM  12917  CD2 LEU X1020      57.200  39.058 122.718  1.00  0.00           C
ATOM  12918 HD21 LEU X1020      56.641  38.310 122.157  1.00  0.00           H
ATOM  12919 HD22 LEU X1020      57.471  38.908 123.763  1.00  0.00           H
ATOM  12920 HD23 LEU X1020      56.601  39.963 122.620  1.00  0.00           H
ATOM  12921  C   LEU X1020      60.056  42.873 122.822  1.00  0.00           C
ATOM  12922  O   LEU X1020      59.346  43.348 123.734  1.00  0.00           O
ATOM  12923  OXT LEU X1020      61.247  43.151 122.611  1.00  0.00           O
END
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Coordinates of receptor NOD2 modeled by SWISS-MODEL server

ATOM	1	N	GLU	X	195	27.296	110.230	147.686	1.00	0.00	N
ATOM	2	H1	GLU	X	195	26.795	109.771	146.939	1.00	0.00	H
ATOM	3	H2	GLU	X	195	26.867	111.142	147.765	1.00	0.00	H
ATOM	4	H3	GLU	X	195	27.122	109.617	148.470	1.00	0.00	H
ATOM	5	CA	GLU	X	195	28.724	110.343	147.282	1.00	0.00	C
ATOM	6	HA	GLU	X	195	28.736	110.494	146.202	1.00	0.00	H
ATOM	7	CB	GLU	X	195	29.467	111.609	147.919	1.00	0.00	C
ATOM	8	HB2	GLU	X	195	29.009	112.595	147.823	1.00	0.00	H
ATOM	9	HB3	GLU	X	195	29.671	111.602	148.990	1.00	0.00	H
ATOM	10	CG	GLU	X	195	30.914	111.740	147.386	1.00	0.00	C
ATOM	11	HG2	GLU	X	195	31.313	112.653	147.827	1.00	0.00	H
ATOM	12	HG3	GLU	X	195	31.528	110.884	147.668	1.00	0.00	H
ATOM	13	CD	GLU	X	195	30.868	111.955	145.844	1.00	0.00	C
ATOM	14	OE1	GLU	X	195	31.301	113.030	145.418	1.00	0.00	O
ATOM	15	OE2	GLU	X	195	30.375	111.078	145.112	1.00	0.00	O
ATOM	16	C	GLU	X	195	29.458	109.023	147.474	1.00	0.00	C
ATOM	17	O	GLU	X	195	29.736	108.632	148.590	1.00	0.00	O
ATOM	18	N	ALA	X	196	29.824	108.300	146.377	1.00	0.00	N
ATOM	19	H	ALA	X	196	29.774	108.657	145.433	1.00	0.00	H
ATOM	20	CA	ALA	X	196	30.541	107.051	146.462	1.00	0.00	C
ATOM	21	HA	ALA	X	196	29.985	106.359	147.095	1.00	0.00	H
ATOM	22	CB	ALA	X	196	30.691	106.470	145.072	1.00	0.00	C
ATOM	23	HB1	ALA	X	196	29.671	106.433	144.691	1.00	0.00	H
ATOM	24	HB2	ALA	X	196	31.394	107.087	144.513	1.00	0.00	H
ATOM	25	HB3	ALA	X	196	31.043	105.438	145.092	1.00	0.00	H
ATOM	26	C	ALA	X	196	31.981	107.295	147.042	1.00	0.00	C
ATOM	27	O	ALA	X	196	32.708	108.264	146.736	1.00	0.00	O
ATOM	28	N	ALA	X	197	32.506	106.346	147.758	1.00	0.00	N
ATOM	29	H	ALA	X	197	31.945	105.555	148.043	1.00	0.00	H
ATOM	30	CA	ALA	X	197	33.832	106.356	148.398	1.00	0.00	C
ATOM	31	HA	ALA	X	197	33.993	107.265	148.977	1.00	0.00	H
ATOM	32	CB	ALA	X	197	33.887	105.124	149.379	1.00	0.00	C
ATOM	33	HB1	ALA	X	197	34.933	105.061	149.678	1.00	0.00	H
ATOM	34	HB2	ALA	X	197	33.224	105.285	150.230	1.00	0.00	H
ATOM	35	HB3	ALA	X	197	33.542	104.288	148.772	1.00	0.00	H
ATOM	36	C	ALA	X	197	35.024	106.418	147.342	1.00	0.00	C
ATOM	37	O	ALA	X	197	34.980	105.873	146.239	1.00	0.00	O
ATOM	38	N	ALA	X	198	36.088	107.206	147.710	1.00	0.00	N
ATOM	39	H	ALA	X	198	36.018	107.509	148.671	1.00	0.00	H
ATOM	40	CA	ALA	X	198	37.111	107.712	146.824	1.00	0.00	C
ATOM	41	HA	ALA	X	198	36.718	108.475	146.152	1.00	0.00	H
ATOM	42	CB	ALA	X	198	38.189	108.482	147.604	1.00	0.00	C
ATOM	43	HB1	ALA	X	198	37.756	109.347	148.105	1.00	0.00	H
ATOM	44	HB2	ALA	X	198	38.772	107.754	148.170	1.00	0.00	H
ATOM	45	HB3	ALA	X	198	38.891	108.863	146.862	1.00	0.00	H
ATOM	46	C	ALA	X	198	37.744	106.618	145.861	1.00	0.00	C
ATOM	47	O	ALA	X	198	37.929	106.909	144.660	1.00	0.00	O
ATOM	48	N	CYS	X	199	37.991	105.417	146.317	1.00	0.00	N
ATOM	49	H	CYS	X	199	37.861	105.366	147.319	1.00	0.00	H
ATOM	50	CA	CYS	X	199	38.498	104.224	145.575	1.00	0.00	C
ATOM	51	HA	CYS	X	199	39.335	104.569	144.969	1.00	0.00	H
ATOM	52	CB	CYS	X	199	39.019	103.132	146.536	1.00	0.00	C
ATOM	53	HB2	CYS	X	199	38.168	102.723	147.080	1.00	0.00	H
ATOM	54	HB3	CYS	X	199	39.590	102.422	145.938	1.00	0.00	H
ATOM	55	SG	CYS	X	199	40.141	103.950	147.808	1.00	0.00	S
ATOM	56	HG	CYS	X	199	40.090	103.026	148.772	1.00	0.00	H
ATOM	57	C	CYS	X	199	37.474	103.563	144.650	1.00	0.00	C
ATOM	58	O	CYS	X	199	37.737	103.333	143.440	1.00	0.00	O
ATOM	59	N	LYS	X	200	36.277	103.321	145.196	1.00	0.00	N
ATOM	60	H	LYS	X	200	36.000	103.501	146.151	1.00	0.00	H
ATOM	61	CA	LYS	X	200	35.086	103.043	144.289	1.00	0.00	C
ATOM	62	HA	LYS	X	200	35.401	102.118	143.808	1.00	0.00	H
ATOM	63	CB	LYS	X	200	33.853	102.790	145.169	1.00	0.00	C
ATOM	64	HB2	LYS	X	200	34.168	102.248	146.061	1.00	0.00	H
ATOM	65	HB3	LYS	X	200	33.554	103.736	145.620	1.00	0.00	H
ATOM	66	CG	LYS	X	200	32.621	102.067	144.561	1.00	0.00	C
ATOM	67	HG2	LYS	X	200	32.341	102.572	143.637	1.00	0.00	H
ATOM	68	HG3	LYS	X	200	33.044	101.085	144.343	1.00	0.00	H
ATOM	69	CD	LYS	X	200	31.403	101.830	145.474	1.00	0.00	C
ATOM	70	HD2	LYS	X	200	31.778	101.188	146.272	1.00	0.00	H
ATOM	71	HD3	LYS	X	200	31.053	102.788	145.856	1.00	0.00	H
ATOM	72	CE	LYS	X	200	30.308	101.092	144.761	1.00	0.00	C
ATOM	73	HE2	LYS	X	200	29.966	101.639	143.883	1.00	0.00	H
ATOM	74	HE3	LYS	X	200	30.721	100.151	144.402	1.00	0.00	H
ATOM	75	NZ	LYS	X	200	29.162	100.836	145.619	1.00	0.00	N
ATOM	76	HZ1	LYS	X	200	28.703	101.704	145.863	1.00	0.00	H
ATOM	77	HZ2	LYS	X	200	28.394	100.325	145.207	1.00	0.00	H
ATOM	78	HZ3	LYS	X	200	29.365	100.289	146.442	1.00	0.00	H
ATOM	79	C	LYS	X	200	34.730	104.072	143.196	1.00	0.00	C
ATOM	80	O	LYS	X	200	34.463	103.659	142.093	1.00	0.00	O

ATOM	81	N	LYS	X	201	34.560	105.264	143.640	1.00	0.00	N
ATOM	82	H	LYS	X	201	34.716	105.432	144.624	1.00	0.00	H
ATOM	83	CA	LYS	X	201	34.408	106.393	142.716	1.00	0.00	C
ATOM	84	HA	LYS	X	201	33.528	106.236	142.094	1.00	0.00	H
ATOM	85	CB	LYS	X	201	34.197	107.752	143.477	1.00	0.00	C
ATOM	86	HB2	LYS	X	201	33.476	107.478	144.249	1.00	0.00	H
ATOM	87	HB3	LYS	X	201	35.170	107.899	143.946	1.00	0.00	H
ATOM	88	CG	LYS	X	201	33.719	108.892	142.556	1.00	0.00	C
ATOM	89	HG2	LYS	X	201	34.597	109.216	141.994	1.00	0.00	H
ATOM	90	HG3	LYS	X	201	33.005	108.559	141.802	1.00	0.00	H
ATOM	91	CD	LYS	X	201	33.267	110.162	143.276	1.00	0.00	C
ATOM	92	HD2	LYS	X	201	32.563	109.990	144.090	1.00	0.00	H
ATOM	93	HD3	LYS	X	201	34.190	110.626	143.627	1.00	0.00	H
ATOM	94	CE	LYS	X	201	32.668	111.004	142.192	1.00	0.00	C
ATOM	95	HE2	LYS	X	201	33.419	111.277	141.451	1.00	0.00	H
ATOM	96	HE3	LYS	X	201	31.900	110.375	141.742	1.00	0.00	H
ATOM	97	NZ	LYS	X	201	32.129	112.245	142.801	1.00	0.00	N
ATOM	98	HZ1	LYS	X	201	31.482	112.720	142.189	1.00	0.00	H
ATOM	99	HZ2	LYS	X	201	31.415	112.119	143.503	1.00	0.00	H
ATOM	100	HZ3	LYS	X	201	32.908	112.783	143.151	1.00	0.00	H
ATOM	101	C	LYS	X	201	35.599	106.576	141.785	1.00	0.00	C
ATOM	102	O	LYS	X	201	35.334	106.656	140.578	1.00	0.00	O
ATOM	103	N	TYR	X	202	36.827	106.408	142.165	1.00	0.00	N
ATOM	104	H	TYR	X	202	37.048	106.340	143.149	1.00	0.00	H
ATOM	105	CA	TYR	X	202	37.934	106.402	141.134	1.00	0.00	C
ATOM	106	HA	TYR	X	202	37.833	107.387	140.677	1.00	0.00	H
ATOM	107	CB	TYR	X	202	39.342	106.320	141.818	1.00	0.00	C
ATOM	108	HB2	TYR	X	202	39.417	107.268	142.352	1.00	0.00	H
ATOM	109	HB3	TYR	X	202	39.377	105.479	142.511	1.00	0.00	H
ATOM	110	CG	TYR	X	202	40.531	106.099	140.866	1.00	0.00	C
ATOM	111	CD1	TYR	X	202	40.896	107.151	140.080	1.00	0.00	C
ATOM	112	HD1	TYR	X	202	40.332	108.072	140.043	1.00	0.00	H
ATOM	113	CE1	TYR	X	202	41.948	106.977	139.127	1.00	0.00	C
ATOM	114	HE1	TYR	X	202	42.218	107.788	138.468	1.00	0.00	H
ATOM	115	CZ	TYR	X	202	42.590	105.742	138.992	1.00	0.00	C
ATOM	116	OH	TYR	X	202	43.729	105.665	138.261	1.00	0.00	O
ATOM	117	HH	TYR	X	202	44.137	106.509	138.055	1.00	0.00	H
ATOM	118	CE2	TYR	X	202	42.126	104.660	139.694	1.00	0.00	C
ATOM	119	HE2	TYR	X	202	42.582	103.707	139.472	1.00	0.00	H
ATOM	120	CD2	TYR	X	202	41.130	104.841	140.691	1.00	0.00	C
ATOM	121	HD2	TYR	X	202	40.790	103.990	141.263	1.00	0.00	H
ATOM	122	C	TYR	X	202	37.724	105.243	140.171	1.00	0.00	C
ATOM	123	O	TYR	X	202	37.853	105.432	138.960	1.00	0.00	O
ATOM	124	N	MET	X	203	37.424	104.086	140.695	1.00	0.00	N
ATOM	125	H	MET	X	203	37.551	103.921	141.683	1.00	0.00	H
ATOM	126	CA	MET	X	203	37.133	102.876	139.865	1.00	0.00	C
ATOM	127	HA	MET	X	203	38.016	102.635	139.274	1.00	0.00	H
ATOM	128	CB	MET	X	203	36.819	101.628	140.708	1.00	0.00	C
ATOM	129	HB2	MET	X	203	37.701	101.435	141.319	1.00	0.00	H
ATOM	130	HB3	MET	X	203	35.986	101.801	141.388	1.00	0.00	H
ATOM	131	CG	MET	X	203	36.448	100.467	139.807	1.00	0.00	C
ATOM	132	HG2	MET	X	203	36.821	100.560	138.789	1.00	0.00	H
ATOM	133	HG3	MET	X	203	36.955	99.628	140.284	1.00	0.00	H
ATOM	134	SD	MET	X	203	34.685	100.076	139.623	1.00	0.00	S
ATOM	135	CE	MET	X	203	34.293	99.748	141.324	1.00	0.00	C
ATOM	136	HE1	MET	X	203	34.476	100.575	142.010	1.00	0.00	H
ATOM	137	HE2	MET	X	203	33.239	99.501	141.450	1.00	0.00	H
ATOM	138	HE3	MET	X	203	34.838	98.867	141.658	1.00	0.00	H
ATOM	139	C	MET	X	203	35.960	103.213	138.899	1.00	0.00	C
ATOM	140	O	MET	X	203	36.069	103.124	137.698	1.00	0.00	O
ATOM	141	N	SER	X	204	34.941	103.850	139.411	1.00	0.00	N
ATOM	142	H	SER	X	204	34.852	103.763	140.414	1.00	0.00	H
ATOM	143	CA	SER	X	204	33.808	104.445	138.682	1.00	0.00	C
ATOM	144	HA	SER	X	204	33.332	103.619	138.152	1.00	0.00	H
ATOM	145	CB	SER	X	204	32.782	105.020	139.594	1.00	0.00	C
ATOM	146	HB2	SER	X	204	33.147	105.800	140.263	1.00	0.00	H
ATOM	147	HB3	SER	X	204	32.002	105.543	139.039	1.00	0.00	H
ATOM	148	OG	SER	X	204	32.150	103.994	140.406	1.00	0.00	O
ATOM	149	HG	SER	X	204	32.753	103.835	141.135	1.00	0.00	H
ATOM	150	C	SER	X	204	34.234	105.406	137.559	1.00	0.00	C
ATOM	151	O	SER	X	204	33.648	105.365	136.446	1.00	0.00	O
ATOM	152	N	LYS	X	205	35.174	106.333	137.722	1.00	0.00	N
ATOM	153	H	LYS	X	205	35.590	106.312	138.642	1.00	0.00	H
ATOM	154	CA	LYS	X	205	35.725	107.377	136.756	1.00	0.00	C
ATOM	155	HA	LYS	X	205	34.842	107.770	136.252	1.00	0.00	H
ATOM	156	CB	LYS	X	205	36.334	108.556	137.501	1.00	0.00	C
ATOM	157	HB2	LYS	X	205	35.565	108.963	138.157	1.00	0.00	H
ATOM	158	HB3	LYS	X	205	37.194	108.210	138.076	1.00	0.00	H
ATOM	159	CG	LYS	X	205	36.855	109.754	136.683	1.00	0.00	C
ATOM	160	HG2	LYS	X	205	37.304	109.350	135.775	1.00	0.00	H
ATOM	161	HG3	LYS	X	205	35.999	110.351	136.372	1.00	0.00	H
ATOM	162	CD	LYS	X	205	37.826	110.597	137.503	1.00	0.00	C

ATOM	163	HD2	LYS	X	205	37.307	111.290	138.166	1.00	0.00	H
ATOM	164	HD3	LYS	X	205	38.572	109.961	137.979	1.00	0.00	H
ATOM	165	CE	LYS	X	205	38.633	111.442	136.558	1.00	0.00	C
ATOM	166	HE2	LYS	X	205	39.192	110.743	135.935	1.00	0.00	H
ATOM	167	HE3	LYS	X	205	37.951	111.959	135.883	1.00	0.00	H
ATOM	168	NZ	LYS	X	205	39.454	112.506	137.248	1.00	0.00	N
ATOM	169	HZ1	LYS	X	205	40.109	112.917	136.598	1.00	0.00	H
ATOM	170	HZ2	LYS	X	205	38.882	113.241	137.640	1.00	0.00	H
ATOM	171	HZ3	LYS	X	205	39.988	112.035	137.963	1.00	0.00	H
ATOM	172	C	LYS	X	205	36.704	106.670	135.802	1.00	0.00	C
ATOM	173	O	LYS	X	205	36.681	106.976	134.630	1.00	0.00	O
ATOM	174	N	LEU	X	206	37.462	105.659	136.255	1.00	0.00	N
ATOM	175	H	LEU	X	206	37.336	105.531	137.250	1.00	0.00	H
ATOM	176	CA	LEU	X	206	38.319	104.811	135.414	1.00	0.00	C
ATOM	177	HA	LEU	X	206	38.964	105.436	134.796	1.00	0.00	H
ATOM	178	CB	LEU	X	206	39.204	103.916	136.410	1.00	0.00	C
ATOM	179	HB2	LEU	X	206	39.855	104.471	137.085	1.00	0.00	H
ATOM	180	HB3	LEU	X	206	38.468	103.311	136.940	1.00	0.00	H
ATOM	181	CG	LEU	X	206	40.088	102.974	135.560	1.00	0.00	C
ATOM	182	HG	LEU	X	206	39.537	102.505	134.745	1.00	0.00	H
ATOM	183	CD1	LEU	X	206	41.226	103.698	134.846	1.00	0.00	C
ATOM	184	HD11	LEU	X	206	40.806	104.455	134.186	1.00	0.00	H
ATOM	185	HD12	LEU	X	206	41.964	104.073	135.556	1.00	0.00	H
ATOM	186	HD13	LEU	X	206	41.698	103.006	134.150	1.00	0.00	H
ATOM	187	CD2	LEU	X	206	40.738	101.891	136.542	1.00	0.00	C
ATOM	188	HD21	LEU	X	206	39.861	101.433	137.004	1.00	0.00	H
ATOM	189	HD22	LEU	X	206	41.368	101.146	136.056	1.00	0.00	H
ATOM	190	HD23	LEU	X	206	41.371	102.406	137.263	1.00	0.00	H
ATOM	191	C	LEU	X	206	37.421	103.944	134.465	1.00	0.00	C
ATOM	192	O	LEU	X	206	37.703	104.125	133.265	1.00	0.00	O
ATOM	193	N	ARG	X	207	36.387	103.252	134.875	1.00	0.00	N
ATOM	194	H	ARG	X	207	36.172	103.230	135.861	1.00	0.00	H
ATOM	195	CA	ARG	X	207	35.351	102.676	133.933	1.00	0.00	C
ATOM	196	HA	ARG	X	207	35.918	102.017	133.274	1.00	0.00	H
ATOM	197	CB	ARG	X	207	34.279	101.791	134.606	1.00	0.00	C
ATOM	198	HB2	ARG	X	207	33.650	102.325	135.317	1.00	0.00	H
ATOM	199	HB3	ARG	X	207	33.634	101.457	133.793	1.00	0.00	H
ATOM	200	CG	ARG	X	207	34.824	100.644	135.406	1.00	0.00	C
ATOM	201	HG2	ARG	X	207	35.449	100.069	134.722	1.00	0.00	H
ATOM	202	HG3	ARG	X	207	35.497	100.998	136.186	1.00	0.00	H
ATOM	203	CD	ARG	X	207	33.751	99.702	136.049	1.00	0.00	C
ATOM	204	HD2	ARG	X	207	33.457	100.139	137.004	1.00	0.00	H
ATOM	205	HD3	ARG	X	207	32.853	99.792	135.438	1.00	0.00	H
ATOM	206	NE	ARG	X	207	34.322	98.376	136.274	1.00	0.00	N
ATOM	207	HE	ARG	X	207	35.222	98.401	136.732	1.00	0.00	H
ATOM	208	CZ	ARG	X	207	33.790	97.176	136.012	1.00	0.00	C
ATOM	209	NH1	ARG	X	207	32.612	96.996	135.551	1.00	0.00	N
ATOM	210	HH11	ARG	X	207	32.057	97.816	135.351	1.00	0.00	H
ATOM	211	HH12	ARG	X	207	32.255	96.082	135.314	1.00	0.00	H
ATOM	212	NH2	ARG	X	207	34.440	96.134	136.360	1.00	0.00	N
ATOM	213	HH21	ARG	X	207	35.237	96.131	136.980	1.00	0.00	H
ATOM	214	HH22	ARG	X	207	33.991	95.278	136.066	1.00	0.00	H
ATOM	215	C	ARG	X	207	34.694	103.786	133.130	1.00	0.00	C
ATOM	216	O	ARG	X	207	34.269	103.488	132.052	1.00	0.00	O
ATOM	217	N	THR	X	208	34.500	105.043	133.546	1.00	0.00	N
ATOM	218	H	THR	X	208	34.811	105.372	134.448	1.00	0.00	H
ATOM	219	CA	THR	X	208	33.891	106.076	132.636	1.00	0.00	C
ATOM	220	HA	THR	X	208	32.974	105.695	132.189	1.00	0.00	H
ATOM	221	CB	THR	X	208	33.521	107.264	133.448	1.00	0.00	C
ATOM	222	HB	THR	X	208	34.377	107.668	133.992	1.00	0.00	H
ATOM	223	CG2	THR	X	208	32.812	108.348	132.633	1.00	0.00	C
ATOM	224	HG21	THR	X	208	32.649	109.152	133.352	1.00	0.00	H
ATOM	225	HG22	THR	X	208	33.335	108.794	131.787	1.00	0.00	H
ATOM	226	HG23	THR	X	208	31.846	108.020	132.251	1.00	0.00	H
ATOM	227	OG1	THR	X	208	32.497	106.946	134.436	1.00	0.00	O
ATOM	228	HG1	THR	X	208	32.816	106.259	135.025	1.00	0.00	H
ATOM	229	C	THR	X	208	34.794	106.499	131.453	1.00	0.00	C
ATOM	230	O	THR	X	208	34.341	106.524	130.318	1.00	0.00	O
ATOM	231	N	ILE	X	209	36.093	106.713	131.738	1.00	0.00	N
ATOM	232	H	ILE	X	209	36.491	106.561	132.653	1.00	0.00	H
ATOM	233	CA	ILE	X	209	37.059	107.028	130.650	1.00	0.00	C
ATOM	234	HA	ILE	X	209	36.634	107.689	129.893	1.00	0.00	H
ATOM	235	CB	ILE	X	209	38.356	107.788	131.119	1.00	0.00	C
ATOM	236	HB	ILE	X	209	38.982	107.115	131.704	1.00	0.00	H
ATOM	237	CG2	ILE	X	209	39.311	108.195	129.940	1.00	0.00	C
ATOM	238	HG21	ILE	X	209	39.072	109.192	129.570	1.00	0.00	H
ATOM	239	HG22	ILE	X	209	40.296	108.213	130.407	1.00	0.00	H
ATOM	240	HG23	ILE	X	209	39.334	107.484	129.116	1.00	0.00	H
ATOM	241	CG1	ILE	X	209	38.003	109.080	131.990	1.00	0.00	C
ATOM	242	HG12	ILE	X	209	37.496	109.797	131.345	1.00	0.00	H
ATOM	243	HG13	ILE	X	209	37.317	108.755	132.772	1.00	0.00	H
ATOM	244	CD1	ILE	X	209	39.227	109.718	132.641	1.00	0.00	C

ATOM	245	HD11	ILE	X	209	38.865	110.442	133.370	1.00	0.00	H
ATOM	246	HD12	ILE	X	209	39.874	109.020	133.174	1.00	0.00	H
ATOM	247	HD13	ILE	X	209	39.818	110.129	131.822	1.00	0.00	H
ATOM	248	C	ILE	X	209	37.557	105.844	129.816	1.00	0.00	C
ATOM	249	O	ILE	X	209	37.568	105.817	128.599	1.00	0.00	O
ATOM	250	N	VAL	X	210	37.716	104.694	130.512	1.00	0.00	N
ATOM	251	H	VAL	X	210	37.527	104.723	131.504	1.00	0.00	H
ATOM	252	CA	VAL	X	210	38.133	103.490	129.836	1.00	0.00	C
ATOM	253	HA	VAL	X	210	38.988	103.726	129.203	1.00	0.00	H
ATOM	254	CB	VAL	X	210	38.848	102.462	130.808	1.00	0.00	C
ATOM	255	HB	VAL	X	210	38.150	102.308	131.632	1.00	0.00	H
ATOM	256	CG1	VAL	X	210	39.121	101.089	130.114	1.00	0.00	C
ATOM	257	HG11	VAL	X	210	39.655	101.235	129.175	1.00	0.00	H
ATOM	258	HG12	VAL	X	210	39.514	100.269	130.716	1.00	0.00	H
ATOM	259	HG13	VAL	X	210	38.126	100.694	129.906	1.00	0.00	H
ATOM	260	CG2	VAL	X	210	40.174	103.025	131.331	1.00	0.00	C
ATOM	261	HG21	VAL	X	210	40.649	102.489	132.154	1.00	0.00	H
ATOM	262	HG22	VAL	X	210	40.817	102.880	130.464	1.00	0.00	H
ATOM	263	HG23	VAL	X	210	40.017	104.077	131.570	1.00	0.00	H
ATOM	264	C	VAL	X	210	37.008	102.830	128.919	1.00	0.00	C
ATOM	265	O	VAL	X	210	37.347	102.258	127.917	1.00	0.00	O
ATOM	266	N	ALA	X	211	35.697	102.997	129.168	1.00	0.00	N
ATOM	267	H	ALA	X	211	35.412	103.382	130.057	1.00	0.00	H
ATOM	268	CA	ALA	X	211	34.643	102.698	128.176	1.00	0.00	C
ATOM	269	HA	ALA	X	211	34.737	101.643	127.921	1.00	0.00	H
ATOM	270	CB	ALA	X	211	33.309	102.948	129.041	1.00	0.00	C
ATOM	271	HB1	ALA	X	211	32.373	102.696	128.542	1.00	0.00	H
ATOM	272	HB2	ALA	X	211	33.369	102.285	129.904	1.00	0.00	H
ATOM	273	HB3	ALA	X	211	33.297	104.012	129.273	1.00	0.00	H
ATOM	274	C	ALA	X	211	34.663	103.677	127.000	1.00	0.00	C
ATOM	275	O	ALA	X	211	34.560	103.259	125.828	1.00	0.00	O
ATOM	276	N	ALA	X	212	34.768	104.940	127.323	1.00	0.00	N
ATOM	277	H	ALA	X	212	34.722	105.290	128.270	1.00	0.00	H
ATOM	278	CA	ALA	X	212	34.655	105.968	126.281	1.00	0.00	C
ATOM	279	HA	ALA	X	212	33.793	105.758	125.645	1.00	0.00	H
ATOM	280	CB	ALA	X	212	34.401	107.386	126.937	1.00	0.00	C
ATOM	281	HB1	ALA	X	212	34.401	108.143	126.154	1.00	0.00	H
ATOM	282	HB2	ALA	X	212	33.423	107.380	127.418	1.00	0.00	H
ATOM	283	HB3	ALA	X	212	35.237	107.637	127.589	1.00	0.00	H
ATOM	284	C	ALA	X	212	35.848	105.921	125.309	1.00	0.00	C
ATOM	285	O	ALA	X	212	35.619	105.612	124.153	1.00	0.00	O
ATOM	286	N	GLN	X	213	37.142	106.008	125.765	1.00	0.00	N
ATOM	287	H	GLN	X	213	37.404	106.218	126.716	1.00	0.00	H
ATOM	288	CA	GLN	X	213	38.217	105.911	124.757	1.00	0.00	C
ATOM	289	HA	GLN	X	213	38.109	106.756	124.075	1.00	0.00	H
ATOM	290	CB	GLN	X	213	39.595	106.087	125.466	1.00	0.00	C
ATOM	291	HB2	GLN	X	213	40.269	106.186	124.615	1.00	0.00	H
ATOM	292	HB3	GLN	X	213	39.625	106.950	126.132	1.00	0.00	H
ATOM	293	CG	GLN	X	213	40.114	104.810	126.333	1.00	0.00	C
ATOM	294	HG2	GLN	X	213	39.546	104.442	127.188	1.00	0.00	H
ATOM	295	HG3	GLN	X	213	40.260	103.916	125.728	1.00	0.00	H
ATOM	296	CD	GLN	X	213	41.448	105.106	126.988	1.00	0.00	C
ATOM	297	OE1	GLN	X	213	41.686	106.253	127.383	1.00	0.00	O
ATOM	298	NE2	GLN	X	213	42.278	104.142	127.227	1.00	0.00	N
ATOM	299	HE21	GLN	X	213	43.087	104.344	127.796	1.00	0.00	H
ATOM	300	HE22	GLN	X	213	42.026	103.208	126.935	1.00	0.00	H
ATOM	301	C	GLN	X	213	38.254	104.636	123.896	1.00	0.00	C
ATOM	302	O	GLN	X	213	38.478	104.763	122.692	1.00	0.00	O
ATOM	303	N	SER	X	214	37.755	103.497	124.447	1.00	0.00	N
ATOM	304	H	SER	X	214	37.313	103.536	125.353	1.00	0.00	H
ATOM	305	CA	SER	X	214	37.895	102.138	123.908	1.00	0.00	C
ATOM	306	HA	SER	X	214	38.831	102.054	123.355	1.00	0.00	H
ATOM	307	CB	SER	X	214	37.972	101.153	125.095	1.00	0.00	C
ATOM	308	HB2	SER	X	214	37.016	101.077	125.609	1.00	0.00	H
ATOM	309	HB3	SER	X	214	38.027	100.095	124.835	1.00	0.00	H
ATOM	310	OG	SER	X	214	39.036	101.559	125.980	1.00	0.00	O
ATOM	311	HG	SER	X	214	38.639	102.031	126.716	1.00	0.00	H
ATOM	312	C	SER	X	214	36.752	101.833	122.963	1.00	0.00	C
ATOM	313	O	SER	X	214	36.999	100.780	122.334	1.00	0.00	O
ATOM	314	N	ARG	X	215	35.719	102.611	122.788	1.00	0.00	N
ATOM	315	H	ARG	X	215	35.655	103.450	123.347	1.00	0.00	H
ATOM	316	CA	ARG	X	215	34.526	102.309	121.999	1.00	0.00	C
ATOM	317	HA	ARG	X	215	34.193	101.311	122.282	1.00	0.00	H
ATOM	318	CB	ARG	X	215	33.473	103.369	122.313	1.00	0.00	C
ATOM	319	HB2	ARG	X	215	33.489	103.679	123.357	1.00	0.00	H
ATOM	320	HB3	ARG	X	215	33.565	104.236	121.658	1.00	0.00	H
ATOM	321	CG	ARG	X	215	32.097	102.692	122.120	1.00	0.00	C
ATOM	322	HG2	ARG	X	215	31.997	102.255	121.127	1.00	0.00	H
ATOM	323	HG3	ARG	X	215	31.960	101.897	122.855	1.00	0.00	H
ATOM	324	CD	ARG	X	215	30.969	103.694	122.317	1.00	0.00	C
ATOM	325	HD2	ARG	X	215	31.351	104.237	123.181	1.00	0.00	H
ATOM	326	HD3	ARG	X	215	30.947	104.418	121.504	1.00	0.00	H

ATOM	327	NE	ARG	X	215	29.684	102.985	122.626	1.00	0.00	N
ATOM	328	HE	ARG	X	215	29.893	102.069	122.999	1.00	0.00	H
ATOM	329	CZ	ARG	X	215	28.437	103.316	122.551	1.00	0.00	C
ATOM	330	NH1	ARG	X	215	28.233	104.621	122.463	1.00	0.00	N
ATOM	331	HH11	ARG	X	215	29.074	105.172	122.536	1.00	0.00	H
ATOM	332	HH12	ARG	X	215	27.330	105.075	122.473	1.00	0.00	H
ATOM	333	NH2	ARG	X	215	27.470	102.498	122.487	1.00	0.00	N
ATOM	334	HH21	ARG	X	215	27.699	101.519	122.384	1.00	0.00	H
ATOM	335	HH22	ARG	X	215	26.523	102.842	122.422	1.00	0.00	H
ATOM	336	C	ARG	X	215	34.704	102.253	120.466	1.00	0.00	C
ATOM	337	O	ARG	X	215	33.941	101.496	119.808	1.00	0.00	O
ATOM	338	N	PHE	X	216	35.614	103.070	119.945	1.00	0.00	N
ATOM	339	H	PHE	X	216	36.191	103.570	120.606	1.00	0.00	H
ATOM	340	CA	PHE	X	216	35.885	103.369	118.548	1.00	0.00	C
ATOM	341	HA	PHE	X	216	35.278	102.675	117.967	1.00	0.00	H
ATOM	342	CB	PHE	X	216	35.328	104.781	118.209	1.00	0.00	C
ATOM	343	HB2	PHE	X	216	36.046	105.538	118.524	1.00	0.00	H
ATOM	344	HB3	PHE	X	216	35.224	104.851	117.127	1.00	0.00	H
ATOM	345	CG	PHE	X	216	33.946	105.150	118.672	1.00	0.00	C
ATOM	346	CD1	PHE	X	216	32.804	104.819	117.935	1.00	0.00	C
ATOM	347	HD1	PHE	X	216	32.785	104.246	117.020	1.00	0.00	H
ATOM	348	CE1	PHE	X	216	31.585	105.332	118.425	1.00	0.00	C
ATOM	349	HE1	PHE	X	216	30.721	105.067	117.833	1.00	0.00	H
ATOM	350	CZ	PHE	X	216	31.464	106.310	119.456	1.00	0.00	C
ATOM	351	HZ	PHE	X	216	30.579	106.871	119.718	1.00	0.00	H
ATOM	352	CE2	PHE	X	216	32.627	106.624	120.191	1.00	0.00	C
ATOM	353	HE2	PHE	X	216	32.626	107.164	121.126	1.00	0.00	H
ATOM	354	CD2	PHE	X	216	33.819	105.953	119.858	1.00	0.00	C
ATOM	355	HD2	PHE	X	216	34.761	106.171	120.341	1.00	0.00	H
ATOM	356	C	PHE	X	216	37.360	103.313	118.159	1.00	0.00	C
ATOM	357	O	PHE	X	216	38.301	103.548	118.975	1.00	0.00	O
ATOM	358	N	LEU	X	217	37.581	102.862	116.974	1.00	0.00	N
ATOM	359	H	LEU	X	217	36.765	102.639	116.422	1.00	0.00	H
ATOM	360	CA	LEU	X	217	38.880	102.459	116.507	1.00	0.00	C
ATOM	361	HA	LEU	X	217	39.349	101.885	117.308	1.00	0.00	H
ATOM	362	CB	LEU	X	217	38.754	101.384	115.400	1.00	0.00	C
ATOM	363	HB2	LEU	X	217	37.809	100.848	115.498	1.00	0.00	H
ATOM	364	HB3	LEU	X	217	38.765	102.036	114.527	1.00	0.00	H
ATOM	365	CG	LEU	X	217	39.998	100.459	115.145	1.00	0.00	C
ATOM	366	HG	LEU	X	217	40.960	100.974	115.123	1.00	0.00	H
ATOM	367	CD1	LEU	X	217	40.093	99.319	116.247	1.00	0.00	C
ATOM	368	HD11	LEU	X	217	39.198	98.697	116.195	1.00	0.00	H
ATOM	369	HD12	LEU	X	217	41.037	98.821	116.020	1.00	0.00	H
ATOM	370	HD13	LEU	X	217	40.328	99.641	117.261	1.00	0.00	H
ATOM	371	CD2	LEU	X	217	39.748	99.883	113.683	1.00	0.00	C
ATOM	372	HD21	LEU	X	217	38.940	99.153	113.620	1.00	0.00	H
ATOM	373	HD22	LEU	X	217	39.552	100.723	113.016	1.00	0.00	H
ATOM	374	HD23	LEU	X	217	40.692	99.550	113.253	1.00	0.00	H
ATOM	375	C	LEU	X	217	39.896	103.596	116.154	1.00	0.00	C
ATOM	376	O	LEU	X	217	40.974	103.336	115.693	1.00	0.00	O
ATOM	377	N	SER	X	218	39.511	104.834	116.515	1.00	0.00	N
ATOM	378	H	SER	X	218	38.531	104.942	116.734	1.00	0.00	H
ATOM	379	CA	SER	X	218	40.364	106.012	116.482	1.00	0.00	C
ATOM	380	HA	SER	X	218	41.346	105.809	116.909	1.00	0.00	H
ATOM	381	CB	SER	X	218	40.716	106.388	114.993	1.00	0.00	C
ATOM	382	HB2	SER	X	218	41.044	107.425	114.922	1.00	0.00	H
ATOM	383	HB3	SER	X	218	41.444	105.643	114.669	1.00	0.00	H
ATOM	384	OG	SER	X	218	39.648	106.343	114.103	1.00	0.00	O
ATOM	385	HG	SER	X	218	39.311	107.241	114.081	1.00	0.00	H
ATOM	386	C	SER	X	218	39.642	107.133	117.208	1.00	0.00	C
ATOM	387	O	SER	X	218	38.511	107.007	117.546	1.00	0.00	O
ATOM	388	N	THR	X	219	40.313	108.331	117.348	1.00	0.00	N
ATOM	389	H	THR	X	219	41.217	108.451	116.912	1.00	0.00	H
ATOM	390	CA	THR	X	219	39.750	109.538	118.015	1.00	0.00	C
ATOM	391	HA	THR	X	219	39.526	109.311	119.058	1.00	0.00	H
ATOM	392	CB	THR	X	219	40.779	110.683	117.874	1.00	0.00	C
ATOM	393	HB	THR	X	219	40.789	111.075	116.858	1.00	0.00	H
ATOM	394	CG2	THR	X	219	40.491	111.775	118.757	1.00	0.00	C
ATOM	395	HG21	THR	X	219	40.262	111.432	119.766	1.00	0.00	H
ATOM	396	HG22	THR	X	219	41.341	112.440	118.918	1.00	0.00	H
ATOM	397	HG23	THR	X	219	39.625	112.341	118.419	1.00	0.00	H
ATOM	398	OG1	THR	X	219	41.997	110.150	118.310	1.00	0.00	O
ATOM	399	HG1	THR	X	219	42.308	109.608	117.580	1.00	0.00	H
ATOM	400	C	THR	X	219	38.396	109.912	117.379	1.00	0.00	C
ATOM	401	O	THR	X	219	38.344	110.184	116.203	1.00	0.00	O
ATOM	402	N	TYR	X	220	37.388	110.111	118.204	1.00	0.00	N
ATOM	403	H	TYR	X	220	37.506	109.904	119.186	1.00	0.00	H
ATOM	404	CA	TYR	X	220	36.095	110.485	117.724	1.00	0.00	C
ATOM	405	HA	TYR	X	220	35.843	109.864	116.864	1.00	0.00	H
ATOM	406	CB	TYR	X	220	35.106	110.266	118.884	1.00	0.00	C
ATOM	407	HB2	TYR	X	220	35.218	109.304	119.382	1.00	0.00	H
ATOM	408	HB3	TYR	X	220	35.318	111.070	119.589	1.00	0.00	H

ATOM	409	CG	TYR	X	220	33.616	110.496	118.510	1.00	0.00	C
ATOM	410	CD1	TYR	X	220	33.102	111.809	118.363	1.00	0.00	C
ATOM	411	HD1	TYR	X	220	33.790	112.641	118.324	1.00	0.00	H
ATOM	412	CE1	TYR	X	220	31.744	111.944	118.100	1.00	0.00	C
ATOM	413	HE1	TYR	X	220	31.317	112.900	117.831	1.00	0.00	H
ATOM	414	CZ	TYR	X	220	30.898	110.853	118.028	1.00	0.00	C
ATOM	415	OH	TYR	X	220	29.524	110.968	117.825	1.00	0.00	O
ATOM	416	HH	TYR	X	220	29.120	110.106	117.944	1.00	0.00	H
ATOM	417	CE2	TYR	X	220	31.479	109.568	118.204	1.00	0.00	C
ATOM	418	HE2	TYR	X	220	30.799	108.732	118.145	1.00	0.00	H
ATOM	419	CD2	TYR	X	220	32.805	109.348	118.467	1.00	0.00	C
ATOM	420	HD2	TYR	X	220	33.192	108.339	118.450	1.00	0.00	H
ATOM	421	C	TYR	X	220	35.990	111.854	117.108	1.00	0.00	C
ATOM	422	O	TYR	X	220	36.636	112.778	117.585	1.00	0.00	O
ATOM	423	N	ASP	X	221	35.273	112.013	116.014	1.00	0.00	N
ATOM	424	H	ASP	X	221	34.845	111.184	115.624	1.00	0.00	H
ATOM	425	CA	ASP	X	221	34.617	113.255	115.525	1.00	0.00	C
ATOM	426	HA	ASP	X	221	34.432	113.908	116.378	1.00	0.00	H
ATOM	427	CB	ASP	X	221	35.508	113.977	114.528	1.00	0.00	C
ATOM	428	HB2	ASP	X	221	35.018	114.934	114.352	1.00	0.00	H
ATOM	429	HB3	ASP	X	221	36.443	114.170	115.055	1.00	0.00	H
ATOM	430	CG	ASP	X	221	35.790	113.286	113.223	1.00	0.00	C
ATOM	431	OD1	ASP	X	221	35.891	113.935	112.181	1.00	0.00	O
ATOM	432	OD2	ASP	X	221	35.912	112.018	113.094	1.00	0.00	O
ATOM	433	C	ASP	X	221	33.236	113.094	114.859	1.00	0.00	C
ATOM	434	O	ASP	X	221	32.777	114.103	114.294	1.00	0.00	O
ATOM	435	N	GLY	X	222	32.538	111.965	115.067	1.00	0.00	N
ATOM	436	H	GLY	X	222	32.990	111.281	115.656	1.00	0.00	H
ATOM	437	CA	GLY	X	222	31.222	111.678	114.475	1.00	0.00	C
ATOM	438	HA2	GLY	X	222	30.594	112.014	115.300	1.00	0.00	H
ATOM	439	HA3	GLY	X	222	31.067	112.240	113.554	1.00	0.00	H
ATOM	440	C	GLY	X	222	30.993	110.104	114.320	1.00	0.00	C
ATOM	441	O	GLY	X	222	30.452	109.487	115.263	1.00	0.00	O
ATOM	442	N	ALA	X	223	31.221	109.530	113.120	1.00	0.00	N
ATOM	443	H	ALA	X	223	31.618	110.095	112.383	1.00	0.00	H
ATOM	444	CA	ALA	X	223	30.948	108.124	112.799	1.00	0.00	C
ATOM	445	HA	ALA	X	223	30.809	107.501	113.684	1.00	0.00	H
ATOM	446	CB	ALA	X	223	29.585	108.134	112.098	1.00	0.00	C
ATOM	447	HB1	ALA	X	223	29.580	108.844	111.272	1.00	0.00	H
ATOM	448	HB2	ALA	X	223	29.207	107.173	111.753	1.00	0.00	H
ATOM	449	HB3	ALA	X	223	28.792	108.571	112.706	1.00	0.00	H
ATOM	450	C	ALA	X	223	31.939	107.423	111.781	1.00	0.00	C
ATOM	451	O	ALA	X	223	31.818	106.246	111.693	1.00	0.00	O
ATOM	452	N	GLU	X	224	32.836	108.140	111.078	1.00	0.00	N
ATOM	453	H	GLU	X	224	32.893	109.138	111.221	1.00	0.00	H
ATOM	454	CA	GLU	X	224	34.028	107.552	110.399	1.00	0.00	C
ATOM	455	HA	GLU	X	224	33.641	106.701	109.840	1.00	0.00	H
ATOM	456	CB	GLU	X	224	34.635	108.504	109.376	1.00	0.00	C
ATOM	457	HB2	GLU	X	224	35.073	109.410	109.793	1.00	0.00	H
ATOM	458	HB3	GLU	X	224	35.465	108.006	108.870	1.00	0.00	H
ATOM	459	CG	GLU	X	224	33.664	108.966	108.213	1.00	0.00	C
ATOM	460	HG2	GLU	X	224	32.865	109.637	108.528	1.00	0.00	H
ATOM	461	HG3	GLU	X	224	34.391	109.459	107.566	1.00	0.00	H
ATOM	462	CD	GLU	X	224	33.089	107.789	107.415	1.00	0.00	C
ATOM	463	OE1	GLU	X	224	31.860	107.605	107.353	1.00	0.00	O
ATOM	464	OE2	GLU	X	224	33.894	107.253	106.607	1.00	0.00	O
ATOM	465	C	GLU	X	224	35.023	106.827	111.357	1.00	0.00	C
ATOM	466	O	GLU	X	224	35.708	105.885	110.984	1.00	0.00	O
ATOM	467	N	ASN	X	225	34.896	107.230	112.619	1.00	0.00	N
ATOM	468	H	ASN	X	225	34.510	108.155	112.748	1.00	0.00	H
ATOM	469	CA	ASN	X	225	35.479	106.543	113.752	1.00	0.00	C
ATOM	470	HA	ASN	X	225	36.535	106.499	113.488	1.00	0.00	H
ATOM	471	CB	ASN	X	225	35.370	107.439	115.000	1.00	0.00	C
ATOM	472	HB2	ASN	X	225	35.565	106.855	115.900	1.00	0.00	H
ATOM	473	HB3	ASN	X	225	36.184	108.151	114.865	1.00	0.00	H
ATOM	474	CG	ASN	X	225	34.082	108.151	115.316	1.00	0.00	C
ATOM	475	OD1	ASN	X	225	34.040	109.363	115.318	1.00	0.00	O
ATOM	476	ND2	ASN	X	225	33.083	107.396	115.646	1.00	0.00	N
ATOM	477	HD21	ASN	X	225	32.179	107.814	115.808	1.00	0.00	H
ATOM	478	HD22	ASN	X	225	33.183	106.408	115.461	1.00	0.00	H
ATOM	479	C	ASN	X	225	34.830	105.148	113.905	1.00	0.00	C
ATOM	480	O	ASN	X	225	33.750	105.020	114.493	1.00	0.00	O
ATOM	481	N	LEU	X	226	35.393	104.053	113.368	1.00	0.00	N
ATOM	482	H	LEU	X	226	36.261	104.290	112.912	1.00	0.00	H
ATOM	483	CA	LEU	X	226	34.767	102.719	113.289	1.00	0.00	C
ATOM	484	HA	LEU	X	226	33.877	102.927	112.694	1.00	0.00	H
ATOM	485	CB	LEU	X	226	35.639	101.751	112.534	1.00	0.00	C
ATOM	486	HB2	LEU	X	226	36.563	101.606	113.093	1.00	0.00	H
ATOM	487	HB3	LEU	X	226	35.176	100.765	112.551	1.00	0.00	H
ATOM	488	CG	LEU	X	226	35.970	102.026	111.008	1.00	0.00	C
ATOM	489	HG	LEU	X	226	36.210	103.065	110.777	1.00	0.00	H
ATOM	490	CD1	LEU	X	226	37.046	101.104	110.429	1.00	0.00	C

ATOM	491	HD11	LEU	X	226	37.060	101.037	109.340	1.00	0.00	H
ATOM	492	HD12	LEU	X	226	38.001	101.498	110.776	1.00	0.00	H
ATOM	493	HD13	LEU	X	226	36.920	100.127	110.895	1.00	0.00	H
ATOM	494	CD2	LEU	X	226	34.657	101.759	110.288	1.00	0.00	C
ATOM	495	HD21	LEU	X	226	33.992	102.588	110.529	1.00	0.00	H
ATOM	496	HD22	LEU	X	226	34.865	101.723	109.219	1.00	0.00	H
ATOM	497	HD23	LEU	X	226	34.222	100.869	110.743	1.00	0.00	H
ATOM	498	C	LEU	X	226	34.499	102.280	114.748	1.00	0.00	C
ATOM	499	O	LEU	X	226	35.400	102.054	115.529	1.00	0.00	O
ATOM	500	N	CYS	X	227	33.226	102.038	115.090	1.00	0.00	N
ATOM	501	H	CYS	X	227	32.530	102.341	114.424	1.00	0.00	H
ATOM	502	CA	CYS	X	227	32.854	101.490	116.396	1.00	0.00	C
ATOM	503	HA	CYS	X	227	33.466	102.080	117.078	1.00	0.00	H
ATOM	504	CB	CYS	X	227	31.361	101.735	116.771	1.00	0.00	C
ATOM	505	HB2	CYS	X	227	31.305	102.820	116.696	1.00	0.00	H
ATOM	506	HB3	CYS	X	227	30.671	101.179	116.135	1.00	0.00	H
ATOM	507	SG	CYS	X	227	31.085	101.246	118.479	1.00	0.00	S
ATOM	508	HG	CYS	X	227	31.941	102.068	119.093	1.00	0.00	H
ATOM	509	C	CYS	X	227	33.199	100.047	116.596	1.00	0.00	C
ATOM	510	O	CYS	X	227	32.701	99.195	115.954	1.00	0.00	O
ATOM	511	N	LEU	X	228	34.062	99.760	117.587	1.00	0.00	N
ATOM	512	H	LEU	X	228	34.297	100.430	118.307	1.00	0.00	H
ATOM	513	CA	LEU	X	228	34.508	98.410	117.876	1.00	0.00	C
ATOM	514	HA	LEU	X	228	34.779	97.972	116.917	1.00	0.00	H
ATOM	515	CB	LEU	X	228	35.706	98.505	118.858	1.00	0.00	C
ATOM	516	HB2	LEU	X	228	36.549	99.085	118.481	1.00	0.00	H
ATOM	517	HB3	LEU	X	228	35.378	98.928	119.807	1.00	0.00	H
ATOM	518	CG	LEU	X	228	36.328	97.105	119.356	1.00	0.00	C
ATOM	519	HG	LEU	X	228	35.583	96.529	119.905	1.00	0.00	H
ATOM	520	CD1	LEU	X	228	36.835	96.502	118.092	1.00	0.00	C
ATOM	521	HD11	LEU	X	228	36.033	96.237	117.405	1.00	0.00	H
ATOM	522	HD12	LEU	X	228	37.570	97.067	117.519	1.00	0.00	H
ATOM	523	HD13	LEU	X	228	37.249	95.539	118.393	1.00	0.00	H
ATOM	524	CD2	LEU	X	228	37.646	97.240	120.170	1.00	0.00	C
ATOM	525	HD21	LEU	X	228	37.419	97.648	121.155	1.00	0.00	H
ATOM	526	HD22	LEU	X	228	38.056	96.260	120.412	1.00	0.00	H
ATOM	527	HD23	LEU	X	228	38.440	97.758	119.633	1.00	0.00	H
ATOM	528	C	LEU	X	228	33.465	97.381	118.355	1.00	0.00	C
ATOM	529	O	LEU	X	228	33.651	96.210	118.138	1.00	0.00	O
ATOM	530	N	GLU	X	229	32.379	97.888	118.848	1.00	0.00	N
ATOM	531	H	GLU	X	229	32.414	98.880	119.030	1.00	0.00	H
ATOM	532	CA	GLU	X	229	31.132	97.106	119.239	1.00	0.00	C
ATOM	533	HA	GLU	X	229	31.475	96.329	119.923	1.00	0.00	H
ATOM	534	CB	GLU	X	229	30.099	97.948	120.010	1.00	0.00	C
ATOM	535	HB2	GLU	X	229	29.664	98.697	119.348	1.00	0.00	H
ATOM	536	HB3	GLU	X	229	29.229	97.392	120.358	1.00	0.00	H
ATOM	537	CG	GLU	X	229	30.587	98.636	121.279	1.00	0.00	C
ATOM	538	HG2	GLU	X	229	31.069	97.923	121.946	1.00	0.00	H
ATOM	539	HG3	GLU	X	229	31.376	99.345	121.026	1.00	0.00	H
ATOM	540	CD	GLU	X	229	29.541	99.498	122.035	1.00	0.00	C
ATOM	541	OE1	GLU	X	229	29.868	100.086	123.141	1.00	0.00	O
ATOM	542	OE2	GLU	X	229	28.425	99.788	121.520	1.00	0.00	O
ATOM	543	C	GLU	X	229	30.371	96.468	118.041	1.00	0.00	C
ATOM	544	O	GLU	X	229	29.587	95.555	118.227	1.00	0.00	O
ATOM	545	N	ASP	X	230	30.504	97.040	116.820	1.00	0.00	N
ATOM	546	H	ASP	X	230	31.045	97.893	116.770	1.00	0.00	H
ATOM	547	CA	ASP	X	230	30.205	96.388	115.603	1.00	0.00	C
ATOM	548	HA	ASP	X	230	29.446	95.646	115.851	1.00	0.00	H
ATOM	549	CB	ASP	X	230	29.597	97.459	114.672	1.00	0.00	C
ATOM	550	HB2	ASP	X	230	30.312	98.277	114.583	1.00	0.00	H
ATOM	551	HB3	ASP	X	230	29.547	97.090	113.648	1.00	0.00	H
ATOM	552	CG	ASP	X	230	28.237	97.968	115.020	1.00	0.00	C
ATOM	553	OD1	ASP	X	230	27.783	98.879	114.212	1.00	0.00	O
ATOM	554	OD2	ASP	X	230	27.565	97.518	115.953	1.00	0.00	O
ATOM	555	C	ASP	X	230	31.372	95.802	114.837	1.00	0.00	C
ATOM	556	O	ASP	X	230	31.182	94.749	114.224	1.00	0.00	O
ATOM	557	N	ILE	X	231	32.525	96.518	114.790	1.00	0.00	N
ATOM	558	H	ILE	X	231	32.424	97.458	115.148	1.00	0.00	H
ATOM	559	CA	ILE	X	231	33.674	96.213	113.960	1.00	0.00	C
ATOM	560	HA	ILE	X	231	33.290	95.742	113.055	1.00	0.00	H
ATOM	561	CB	ILE	X	231	34.564	97.488	113.674	1.00	0.00	C
ATOM	562	HB	ILE	X	231	34.553	98.229	114.472	1.00	0.00	H
ATOM	563	CG2	ILE	X	231	36.019	97.158	113.432	1.00	0.00	C
ATOM	564	HG21	ILE	X	231	36.550	98.087	113.220	1.00	0.00	H
ATOM	565	HG22	ILE	X	231	36.391	96.813	114.396	1.00	0.00	H
ATOM	566	HG23	ILE	X	231	36.142	96.312	112.755	1.00	0.00	H
ATOM	567	CG1	ILE	X	231	34.065	98.045	112.299	1.00	0.00	C
ATOM	568	HG12	ILE	X	231	34.806	98.675	111.809	1.00	0.00	H
ATOM	569	HG13	ILE	X	231	33.807	97.256	111.592	1.00	0.00	H
ATOM	570	CD1	ILE	X	231	32.781	98.820	112.510	1.00	0.00	C
ATOM	571	HD11	ILE	X	231	32.529	99.242	111.537	1.00	0.00	H
ATOM	572	HD12	ILE	X	231	31.959	98.167	112.802	1.00	0.00	H

ATOM	573	HD13	ILE	X	231	32.840	99.679	113.177	1.00	0.00	H
ATOM	574	C	ILE	X	231	34.363	95.002	114.565	1.00	0.00	C
ATOM	575	O	ILE	X	231	35.126	94.365	113.810	1.00	0.00	O
ATOM	576	N	TYR	X	232	34.186	94.633	115.850	1.00	0.00	N
ATOM	577	H	TYR	X	232	33.567	95.138	116.465	1.00	0.00	H
ATOM	578	CA	TYR	X	232	34.854	93.474	116.413	1.00	0.00	C
ATOM	579	HA	TYR	X	232	35.936	93.597	116.391	1.00	0.00	H
ATOM	580	CB	TYR	X	232	34.533	93.303	117.902	1.00	0.00	C
ATOM	581	HB2	TYR	X	232	34.866	94.176	118.464	1.00	0.00	H
ATOM	582	HB3	TYR	X	232	33.478	93.095	118.076	1.00	0.00	H
ATOM	583	CG	TYR	X	232	35.375	92.151	118.458	1.00	0.00	C
ATOM	584	CD1	TYR	X	232	36.711	92.325	118.850	1.00	0.00	C
ATOM	585	HD1	TYR	X	232	37.199	93.287	118.781	1.00	0.00	H
ATOM	586	CE1	TYR	X	232	37.489	91.186	119.047	1.00	0.00	C
ATOM	587	HE1	TYR	X	232	38.560	91.266	119.175	1.00	0.00	H
ATOM	588	CZ	TYR	X	232	37.024	89.847	118.910	1.00	0.00	C
ATOM	589	OH	TYR	X	232	37.857	88.753	119.078	1.00	0.00	O
ATOM	590	HH	TYR	X	232	37.340	87.975	119.296	1.00	0.00	H
ATOM	591	CE2	TYR	X	232	35.680	89.672	118.622	1.00	0.00	C
ATOM	592	HE2	TYR	X	232	35.333	88.651	118.569	1.00	0.00	H
ATOM	593	CD2	TYR	X	232	34.870	90.785	118.397	1.00	0.00	C
ATOM	594	HD2	TYR	X	232	33.821	90.538	118.329	1.00	0.00	H
ATOM	595	C	TYR	X	232	34.644	92.135	115.670	1.00	0.00	C
ATOM	596	O	TYR	X	232	33.541	91.638	115.376	1.00	0.00	O
ATOM	597	N	THR	X	233	35.713	91.482	115.292	1.00	0.00	N
ATOM	598	H	THR	X	233	36.589	91.776	115.702	1.00	0.00	H
ATOM	599	CA	THR	X	233	35.800	90.296	114.398	1.00	0.00	C
ATOM	600	HA	THR	X	233	34.802	89.861	114.344	1.00	0.00	H
ATOM	601	CB	THR	X	233	36.131	90.762	112.991	1.00	0.00	C
ATOM	602	HB	THR	X	233	37.083	91.292	113.033	1.00	0.00	H
ATOM	603	CG2	THR	X	233	36.219	89.598	111.987	1.00	0.00	C
ATOM	604	HG21	THR	X	233	36.240	89.905	110.942	1.00	0.00	H
ATOM	605	HG22	THR	X	233	37.072	88.960	112.216	1.00	0.00	H
ATOM	606	HG23	THR	X	233	35.269	89.069	112.063	1.00	0.00	H
ATOM	607	OG1	THR	X	233	35.189	91.674	112.558	1.00	0.00	O
ATOM	608	HG1	THR	X	233	35.093	92.190	113.362	1.00	0.00	H
ATOM	609	C	THR	X	233	36.853	89.291	114.894	1.00	0.00	C
ATOM	610	O	THR	X	233	37.903	89.632	115.399	1.00	0.00	O
ATOM	611	N	GLU	X	234	36.675	87.965	114.849	1.00	0.00	N
ATOM	612	H	GLU	X	234	35.858	87.631	114.355	1.00	0.00	H
ATOM	613	CA	GLU	X	234	37.546	86.951	115.533	1.00	0.00	C
ATOM	614	HA	GLU	X	234	37.738	87.287	116.551	1.00	0.00	H
ATOM	615	CB	GLU	X	234	37.028	85.476	115.418	1.00	0.00	C
ATOM	616	HB2	GLU	X	234	36.011	85.453	115.807	1.00	0.00	H
ATOM	617	HB3	GLU	X	234	36.970	85.085	114.402	1.00	0.00	H
ATOM	618	CG	GLU	X	234	37.965	84.457	116.247	1.00	0.00	C
ATOM	619	HG2	GLU	X	234	37.916	83.490	115.745	1.00	0.00	H
ATOM	620	HG3	GLU	X	234	38.999	84.800	116.275	1.00	0.00	H
ATOM	621	CD	GLU	X	234	37.404	84.436	117.672	1.00	0.00	C
ATOM	622	OE1	GLU	X	234	36.405	83.701	117.982	1.00	0.00	O
ATOM	623	OE2	GLU	X	234	37.974	85.140	118.522	1.00	0.00	O
ATOM	624	C	GLU	X	234	39.016	87.036	115.017	1.00	0.00	C
ATOM	625	O	GLU	X	234	39.273	86.416	113.996	1.00	0.00	O
ATOM	626	N	ASN	X	235	39.934	87.685	115.708	1.00	0.00	N
ATOM	627	H	ASN	X	235	39.703	88.294	116.478	1.00	0.00	H
ATOM	628	CA	ASN	X	235	41.349	87.667	115.405	1.00	0.00	C
ATOM	629	HA	ASN	X	235	41.630	87.651	114.351	1.00	0.00	H
ATOM	630	CB	ASN	X	235	41.978	88.959	115.921	1.00	0.00	C
ATOM	631	HB2	ASN	X	235	41.428	89.834	115.574	1.00	0.00	H
ATOM	632	HB3	ASN	X	235	42.028	88.916	117.008	1.00	0.00	H
ATOM	633	CG	ASN	X	235	43.419	89.244	115.448	1.00	0.00	C
ATOM	634	OD1	ASN	X	235	44.124	88.387	114.891	1.00	0.00	O
ATOM	635	ND2	ASN	X	235	43.918	90.423	115.545	1.00	0.00	N
ATOM	636	HD21	ASN	X	235	44.690	90.624	114.925	1.00	0.00	H
ATOM	637	HD22	ASN	X	235	43.291	91.179	115.781	1.00	0.00	H
ATOM	638	C	ASN	X	235	42.038	86.436	116.108	1.00	0.00	C
ATOM	639	O	ASN	X	235	41.859	86.080	117.290	1.00	0.00	O
ATOM	640	N	THR	X	236	42.716	85.700	115.233	1.00	0.00	N
ATOM	641	H	THR	X	236	42.940	85.986	114.289	1.00	0.00	H
ATOM	642	CA	THR	X	236	43.276	84.385	115.480	1.00	0.00	C
ATOM	643	HA	THR	X	236	42.505	83.837	116.024	1.00	0.00	H
ATOM	644	CB	THR	X	236	43.611	83.642	114.204	1.00	0.00	C
ATOM	645	HB	THR	X	236	44.439	84.225	113.801	1.00	0.00	H
ATOM	646	CG2	THR	X	236	44.072	82.253	114.481	1.00	0.00	C
ATOM	647	HG21	THR	X	236	44.962	82.108	115.093	1.00	0.00	H
ATOM	648	HG22	THR	X	236	43.235	81.787	115.002	1.00	0.00	H
ATOM	649	HG23	THR	X	236	44.109	81.733	113.525	1.00	0.00	H
ATOM	650	OG1	THR	X	236	42.543	83.658	113.281	1.00	0.00	O
ATOM	651	HG1	THR	X	236	42.589	84.522	112.863	1.00	0.00	H
ATOM	652	C	THR	X	236	44.415	84.508	116.539	1.00	0.00	C
ATOM	653	O	THR	X	236	45.614	84.372	116.286	1.00	0.00	O
ATOM	654	N	LEU	X	237	44.026	84.583	117.787	1.00	0.00	N

ATOM	655	H	LEU	X	237	43.062	84.759	118.034	1.00	0.00	H
ATOM	656	CA	LEU	X	237	44.910	84.376	118.931	1.00	0.00	C
ATOM	657	HA	LEU	X	237	45.850	84.903	118.763	1.00	0.00	H
ATOM	658	CB	LEU	X	237	44.160	84.989	120.194	1.00	0.00	C
ATOM	659	HB2	LEU	X	237	43.973	86.055	120.060	1.00	0.00	H
ATOM	660	HB3	LEU	X	237	43.223	84.442	120.293	1.00	0.00	H
ATOM	661	CG	LEU	X	237	45.038	84.907	121.445	1.00	0.00	C
ATOM	662	HG	LEU	X	237	45.557	83.955	121.546	1.00	0.00	H
ATOM	663	CD1	LEU	X	237	46.127	85.964	121.453	1.00	0.00	C
ATOM	664	HD11	LEU	X	237	46.730	85.939	122.360	1.00	0.00	H
ATOM	665	HD12	LEU	X	237	46.846	85.796	120.652	1.00	0.00	H
ATOM	666	HD13	LEU	X	237	45.626	86.915	121.263	1.00	0.00	H
ATOM	667	CD2	LEU	X	237	44.200	85.130	122.726	1.00	0.00	C
ATOM	668	HD21	LEU	X	237	44.049	86.193	122.915	1.00	0.00	H
ATOM	669	HD22	LEU	X	237	43.325	84.488	122.625	1.00	0.00	H
ATOM	670	HD23	LEU	X	237	44.817	84.871	123.588	1.00	0.00	H
ATOM	671	C	LEU	X	237	45.260	82.926	119.179	1.00	0.00	C
ATOM	672	O	LEU	X	237	44.350	82.143	119.311	1.00	0.00	O
ATOM	673	N	GLU	X	238	46.561	82.624	119.279	1.00	0.00	N
ATOM	674	H	GLU	X	238	47.267	83.310	119.053	1.00	0.00	H
ATOM	675	CA	GLU	X	238	47.008	81.232	119.647	1.00	0.00	C
ATOM	676	HA	GLU	X	238	46.190	80.863	120.265	1.00	0.00	H
ATOM	677	CB	GLU	X	238	47.092	80.354	118.354	1.00	0.00	C
ATOM	678	HB2	GLU	X	238	47.742	80.926	117.692	1.00	0.00	H
ATOM	679	HB3	GLU	X	238	47.660	79.478	118.666	1.00	0.00	H
ATOM	680	CG	GLU	X	238	45.713	79.870	117.860	1.00	0.00	C
ATOM	681	HG2	GLU	X	238	45.236	79.265	118.631	1.00	0.00	H
ATOM	682	HG3	GLU	X	238	45.177	80.746	117.494	1.00	0.00	H
ATOM	683	CD	GLU	X	238	45.793	78.995	116.554	1.00	0.00	C
ATOM	684	OE1	GLU	X	238	44.861	78.206	116.303	1.00	0.00	O
ATOM	685	OE2	GLU	X	238	46.847	79.010	115.851	1.00	0.00	O
ATOM	686	C	GLU	X	238	48.256	81.106	120.392	1.00	0.00	C
ATOM	687	O	GLU	X	238	49.262	81.773	120.015	1.00	0.00	O
ATOM	688	N	VAL	X	239	48.355	80.203	121.361	1.00	0.00	N
ATOM	689	H	VAL	X	239	47.533	79.626	121.469	1.00	0.00	H
ATOM	690	CA	VAL	X	239	49.537	79.826	122.097	1.00	0.00	C
ATOM	691	HA	VAL	X	239	49.819	80.634	122.773	1.00	0.00	H
ATOM	692	CB	VAL	X	239	49.323	78.641	123.114	1.00	0.00	C
ATOM	693	HB	VAL	X	239	48.903	77.768	122.618	1.00	0.00	H
ATOM	694	CG1	VAL	X	239	50.589	78.171	123.735	1.00	0.00	C
ATOM	695	HG11	VAL	X	239	51.188	78.980	124.152	1.00	0.00	H
ATOM	696	HG12	VAL	X	239	50.340	77.500	124.559	1.00	0.00	H
ATOM	697	HG13	VAL	X	239	51.212	77.576	123.068	1.00	0.00	H
ATOM	698	CG2	VAL	X	239	48.334	79.031	124.202	1.00	0.00	C
ATOM	699	HG21	VAL	X	239	48.137	78.146	124.807	1.00	0.00	H
ATOM	700	HG22	VAL	X	239	48.807	79.814	124.795	1.00	0.00	H
ATOM	701	HG23	VAL	X	239	47.422	79.475	123.804	1.00	0.00	H
ATOM	702	C	VAL	X	239	50.623	79.433	121.075	1.00	0.00	C
ATOM	703	O	VAL	X	239	50.300	78.755	120.073	1.00	0.00	O
ATOM	704	N	ARG	X	240	51.870	79.825	121.212	1.00	0.00	N
ATOM	705	H	ARG	X	240	52.067	80.396	122.021	1.00	0.00	H
ATOM	706	CA	ARG	X	240	52.982	79.426	120.394	1.00	0.00	C
ATOM	707	HA	ARG	X	240	52.713	79.301	119.346	1.00	0.00	H
ATOM	708	CB	ARG	X	240	54.121	80.463	120.508	1.00	0.00	C
ATOM	709	HB2	ARG	X	240	54.447	80.498	121.547	1.00	0.00	H
ATOM	710	HB3	ARG	X	240	54.908	79.995	119.918	1.00	0.00	H
ATOM	711	CG	ARG	X	240	53.586	81.766	119.799	1.00	0.00	C
ATOM	712	HG2	ARG	X	240	53.092	81.611	118.840	1.00	0.00	H
ATOM	713	HG3	ARG	X	240	52.803	82.190	120.428	1.00	0.00	H
ATOM	714	CD	ARG	X	240	54.785	82.779	119.653	1.00	0.00	C
ATOM	715	HD2	ARG	X	240	54.391	83.763	119.401	1.00	0.00	H
ATOM	716	HD3	ARG	X	240	55.362	82.815	120.578	1.00	0.00	H
ATOM	717	NE	ARG	X	240	55.642	82.349	118.556	1.00	0.00	N
ATOM	718	HE	ARG	X	240	55.329	82.601	117.629	1.00	0.00	H
ATOM	719	CZ	ARG	X	240	56.803	81.796	118.651	1.00	0.00	C
ATOM	720	NH1	ARG	X	240	57.468	81.612	119.744	1.00	0.00	N
ATOM	721	HH11	ARG	X	240	57.086	81.992	120.599	1.00	0.00	H
ATOM	722	HH12	ARG	X	240	58.464	81.452	119.702	1.00	0.00	H
ATOM	723	NH2	ARG	X	240	57.507	81.484	117.599	1.00	0.00	N
ATOM	724	HH21	ARG	X	240	57.158	81.604	116.658	1.00	0.00	H
ATOM	725	HH22	ARG	X	240	58.432	81.079	117.636	1.00	0.00	H
ATOM	726	C	ARG	X	240	53.403	78.056	120.864	1.00	0.00	C
ATOM	727	O	ARG	X	240	53.870	78.002	121.988	1.00	0.00	O
ATOM	728	N	THR	X	241	53.150	77.015	120.121	1.00	0.00	N
ATOM	729	H	THR	X	241	52.676	77.186	119.247	1.00	0.00	H
ATOM	730	CA	THR	X	241	53.571	75.675	120.416	1.00	0.00	C
ATOM	731	HA	THR	X	241	53.608	75.530	121.495	1.00	0.00	H
ATOM	732	CB	THR	X	241	52.491	74.584	120.035	1.00	0.00	C
ATOM	733	HB	THR	X	241	52.896	73.601	120.278	1.00	0.00	H
ATOM	734	CG2	THR	X	241	51.017	74.831	120.616	1.00	0.00	C
ATOM	735	HG21	THR	X	241	50.480	75.431	119.881	1.00	0.00	H
ATOM	736	HG22	THR	X	241	50.591	73.866	120.891	1.00	0.00	H

ATOM	737	HG23	THR	X	241	51.156	75.321	121.580	1.00	0.00	H
ATOM	738	OG1	THR	X	241	52.412	74.581	118.637	1.00	0.00	O
ATOM	739	HG1	THR	X	241	52.058	75.429	118.361	1.00	0.00	H
ATOM	740	C	THR	X	241	54.932	75.305	119.910	1.00	0.00	C
ATOM	741	O	THR	X	241	55.456	76.128	119.209	1.00	0.00	O
ATOM	742	N	GLU	X	242	55.528	74.220	120.201	1.00	0.00	N
ATOM	743	H	GLU	X	242	55.091	73.507	120.767	1.00	0.00	H
ATOM	744	CA	GLU	X	242	56.664	73.711	119.449	1.00	0.00	C
ATOM	745	HA	GLU	X	242	57.251	74.611	119.263	1.00	0.00	H
ATOM	746	CB	GLU	X	242	57.506	72.659	120.160	1.00	0.00	C
ATOM	747	HB2	GLU	X	242	57.016	71.687	120.163	1.00	0.00	H
ATOM	748	HB3	GLU	X	242	58.304	72.382	119.470	1.00	0.00	H
ATOM	749	CG	GLU	X	242	58.023	72.872	121.604	1.00	0.00	C
ATOM	750	HG2	GLU	X	242	58.476	71.925	121.900	1.00	0.00	H
ATOM	751	HG3	GLU	X	242	58.838	73.591	121.675	1.00	0.00	H
ATOM	752	CD	GLU	X	242	57.078	73.240	122.711	1.00	0.00	C
ATOM	753	OE1	GLU	X	242	55.919	72.807	122.550	1.00	0.00	O
ATOM	754	OE2	GLU	X	242	57.432	73.984	123.636	1.00	0.00	O
ATOM	755	C	GLU	X	242	56.271	73.117	118.098	1.00	0.00	C
ATOM	756	O	GLU	X	242	55.206	72.516	117.941	1.00	0.00	O
ATOM	757	N	VAL	X	243	57.098	73.297	117.079	1.00	0.00	N
ATOM	758	H	VAL	X	243	57.865	73.941	117.217	1.00	0.00	H
ATOM	759	CA	VAL	X	243	56.859	72.680	115.767	1.00	0.00	C
ATOM	760	HA	VAL	X	243	55.864	72.953	115.417	1.00	0.00	H
ATOM	761	CB	VAL	X	243	57.912	73.215	114.778	1.00	0.00	C
ATOM	762	HB	VAL	X	243	58.927	73.111	115.163	1.00	0.00	H
ATOM	763	CG1	VAL	X	243	57.816	72.424	113.480	1.00	0.00	C
ATOM	764	HG11	VAL	X	243	58.232	72.952	112.622	1.00	0.00	H
ATOM	765	HG12	VAL	X	243	58.334	71.483	113.659	1.00	0.00	H
ATOM	766	HG13	VAL	X	243	56.783	72.119	113.313	1.00	0.00	H
ATOM	767	CG2	VAL	X	243	57.671	74.659	114.432	1.00	0.00	C
ATOM	768	HG21	VAL	X	243	57.580	75.179	115.384	1.00	0.00	H
ATOM	769	HG22	VAL	X	243	58.471	75.088	113.830	1.00	0.00	H
ATOM	770	HG23	VAL	X	243	56.677	74.640	113.981	1.00	0.00	H
ATOM	771	C	VAL	X	243	57.061	71.159	116.056	1.00	0.00	C
ATOM	772	O	VAL	X	243	57.865	70.776	116.890	1.00	0.00	O
ATOM	773	N	GLY	X	244	56.374	70.299	115.374	1.00	0.00	N
ATOM	774	H	GLY	X	244	55.817	70.763	114.671	1.00	0.00	H
ATOM	775	CA	GLY	X	244	56.350	68.851	115.550	1.00	0.00	C
ATOM	776	HA2	GLY	X	244	56.055	68.356	114.624	1.00	0.00	H
ATOM	777	HA3	GLY	X	244	57.378	68.531	115.722	1.00	0.00	H
ATOM	778	C	GLY	X	244	55.581	68.332	116.760	1.00	0.00	C
ATOM	779	O	GLY	X	244	55.217	67.189	116.646	1.00	0.00	O
ATOM	780	N	MET	X	245	55.306	69.069	117.814	1.00	0.00	N
ATOM	781	H	MET	X	245	55.535	70.049	117.733	1.00	0.00	H
ATOM	782	CA	MET	X	245	54.431	68.658	118.995	1.00	0.00	C
ATOM	783	HA	MET	X	245	54.751	67.659	119.294	1.00	0.00	H
ATOM	784	CB	MET	X	245	54.615	69.613	120.266	1.00	0.00	C
ATOM	785	HB2	MET	X	245	54.158	68.994	121.038	1.00	0.00	H
ATOM	786	HB3	MET	X	245	55.692	69.689	120.422	1.00	0.00	H
ATOM	787	CG	MET	X	245	53.887	70.982	120.268	1.00	0.00	C
ATOM	788	HG2	MET	X	245	54.580	71.780	120.540	1.00	0.00	H
ATOM	789	HG3	MET	X	245	53.650	71.145	119.217	1.00	0.00	H
ATOM	790	SD	MET	X	245	52.303	71.242	121.163	1.00	0.00	S
ATOM	791	CE	MET	X	245	52.574	70.824	122.937	1.00	0.00	C
ATOM	792	HE1	MET	X	245	52.944	69.804	123.036	1.00	0.00	H
ATOM	793	HE2	MET	X	245	53.398	71.373	123.392	1.00	0.00	H
ATOM	794	HE3	MET	X	245	51.701	71.013	123.562	1.00	0.00	H
ATOM	795	C	MET	X	245	52.947	68.489	118.570	1.00	0.00	C
ATOM	796	O	MET	X	245	52.479	68.817	117.482	1.00	0.00	O
ATOM	797	N	ALA	X	246	52.144	67.869	119.492	1.00	0.00	N
ATOM	798	H	ALA	X	246	52.603	67.644	120.364	1.00	0.00	H
ATOM	799	CA	ALA	X	246	50.685	67.705	119.344	1.00	0.00	C
ATOM	800	HA	ALA	X	246	50.261	68.508	118.742	1.00	0.00	H
ATOM	801	CB	ALA	X	246	50.401	66.367	118.667	1.00	0.00	C
ATOM	802	HB1	ALA	X	246	50.594	65.545	119.355	1.00	0.00	H
ATOM	803	HB2	ALA	X	246	49.325	66.296	118.507	1.00	0.00	H
ATOM	804	HB3	ALA	X	246	50.898	66.219	117.708	1.00	0.00	H
ATOM	805	C	ALA	X	246	50.018	67.854	120.691	1.00	0.00	C
ATOM	806	O	ALA	X	246	48.856	68.256	120.664	1.00	0.00	O
ATOM	807	N	GLY	X	247	50.730	67.634	121.816	1.00	0.00	N
ATOM	808	H	GLY	X	247	51.695	67.352	121.719	1.00	0.00	H
ATOM	809	CA	GLY	X	247	50.151	67.584	123.167	1.00	0.00	C
ATOM	810	HA2	GLY	X	247	50.843	67.355	123.976	1.00	0.00	H
ATOM	811	HA3	GLY	X	247	49.627	68.521	123.355	1.00	0.00	H
ATOM	812	C	GLY	X	247	49.112	66.421	123.270	1.00	0.00	C
ATOM	813	O	GLY	X	247	49.131	65.569	122.386	1.00	0.00	O
ATOM	814	N	PRO	X	248	48.269	66.327	124.324	1.00	0.00	N
ATOM	815	CD	PRO	X	248	48.308	67.213	125.438	1.00	0.00	C
ATOM	816	HD2	PRO	X	248	47.697	68.091	125.230	1.00	0.00	H
ATOM	817	HD3	PRO	X	248	49.305	67.630	125.581	1.00	0.00	H
ATOM	818	CG	PRO	X	248	47.836	66.296	126.684	1.00	0.00	C

ATOM	819	HG2	PRO	X	248	47.495	66.850	127.559	1.00	0.00	H
ATOM	820	HG3	PRO	X	248	48.644	65.622	126.971	1.00	0.00	H
ATOM	821	CB	PRO	X	248	46.789	65.447	126.027	1.00	0.00	C
ATOM	822	HB2	PRO	X	248	45.828	65.959	125.985	1.00	0.00	H
ATOM	823	HB3	PRO	X	248	46.729	64.490	126.545	1.00	0.00	H
ATOM	824	CA	PRO	X	248	47.347	65.250	124.630	1.00	0.00	C
ATOM	825	HA	PRO	X	248	47.853	64.285	124.651	1.00	0.00	H
ATOM	826	C	PRO	X	248	46.184	65.110	123.637	1.00	0.00	C
ATOM	827	O	PRO	X	248	45.769	66.156	123.195	1.00	0.00	O
ATOM	828	N	LEU	X	249	45.733	63.900	123.205	1.00	0.00	N
ATOM	829	H	LEU	X	249	46.112	63.080	123.655	1.00	0.00	H
ATOM	830	CA	LEU	X	249	44.820	63.701	122.051	1.00	0.00	C
ATOM	831	HA	LEU	X	249	45.414	63.843	121.148	1.00	0.00	H
ATOM	832	CB	LEU	X	249	44.338	62.281	121.987	1.00	0.00	C
ATOM	833	HB2	LEU	X	249	45.238	61.687	121.839	1.00	0.00	H
ATOM	834	HB3	LEU	X	249	44.000	62.013	122.987	1.00	0.00	H
ATOM	835	CG	LEU	X	249	43.208	62.054	120.956	1.00	0.00	C
ATOM	836	HG	LEU	X	249	42.344	62.701	121.112	1.00	0.00	H
ATOM	837	CD1	LEU	X	249	43.642	62.115	119.530	1.00	0.00	C
ATOM	838	HD11	LEU	X	249	44.615	61.647	119.375	1.00	0.00	H
ATOM	839	HD12	LEU	X	249	42.833	61.676	118.945	1.00	0.00	H
ATOM	840	HD13	LEU	X	249	43.681	63.173	119.272	1.00	0.00	H
ATOM	841	CD2	LEU	X	249	42.691	60.630	121.129	1.00	0.00	C
ATOM	842	HD21	LEU	X	249	42.567	60.561	122.210	1.00	0.00	H
ATOM	843	HD22	LEU	X	249	41.726	60.475	120.645	1.00	0.00	H
ATOM	844	HD23	LEU	X	249	43.422	59.952	120.689	1.00	0.00	H
ATOM	845	C	LEU	X	249	43.572	64.626	122.103	1.00	0.00	C
ATOM	846	O	LEU	X	249	43.413	65.375	121.146	1.00	0.00	O
ATOM	847	N	HIE	X	250	42.837	64.546	123.175	1.00	0.00	N
ATOM	848	H	HIE	X	250	42.910	63.790	123.840	1.00	0.00	H
ATOM	849	CA	HIE	X	250	41.741	65.395	123.480	1.00	0.00	C
ATOM	850	HA	HIE	X	250	40.907	65.375	122.779	1.00	0.00	H
ATOM	851	CB	HIE	X	250	41.116	64.920	124.843	1.00	0.00	C
ATOM	852	HB2	HIE	X	250	40.264	65.573	125.030	1.00	0.00	H
ATOM	853	HB3	HIE	X	250	40.647	63.945	124.712	1.00	0.00	H
ATOM	854	CG	HIE	X	250	42.032	64.954	126.011	1.00	0.00	C
ATOM	855	ND1	HIE	X	250	42.070	65.959	126.954	1.00	0.00	N
ATOM	856	CE1	HIE	X	250	43.149	65.743	127.717	1.00	0.00	C
ATOM	857	HE1	HIE	X	250	43.584	66.380	128.473	1.00	0.00	H
ATOM	858	NE2	HIE	X	250	43.657	64.548	127.407	1.00	0.00	N
ATOM	859	HE2	HIE	X	250	44.301	64.087	128.033	1.00	0.00	H
ATOM	860	CD2	HIE	X	250	43.003	64.007	126.372	1.00	0.00	C
ATOM	861	HD2	HIE	X	250	43.132	63.003	125.996	1.00	0.00	H
ATOM	862	C	HIE	X	250	42.058	66.880	123.650	1.00	0.00	C
ATOM	863	O	HIE	X	250	41.289	67.699	123.071	1.00	0.00	O
ATOM	864	N	LYS	X	251	43.254	67.342	124.110	1.00	0.00	N
ATOM	865	H	LYS	X	251	43.903	66.581	124.243	1.00	0.00	H
ATOM	866	CA	LYS	X	251	43.733	68.728	123.937	1.00	0.00	C
ATOM	867	HA	LYS	X	251	42.992	69.483	124.200	1.00	0.00	H
ATOM	868	CB	LYS	X	251	44.786	68.986	125.063	1.00	0.00	C
ATOM	869	HB2	LYS	X	251	45.523	68.183	125.069	1.00	0.00	H
ATOM	870	HB3	LYS	X	251	45.313	69.901	124.793	1.00	0.00	H
ATOM	871	CG	LYS	X	251	44.184	69.152	126.451	1.00	0.00	C
ATOM	872	HG2	LYS	X	251	43.256	69.716	126.352	1.00	0.00	H
ATOM	873	HG3	LYS	X	251	43.921	68.159	126.817	1.00	0.00	H
ATOM	874	CD	LYS	X	251	45.258	69.701	127.422	1.00	0.00	C
ATOM	875	HD2	LYS	X	251	44.906	69.561	128.443	1.00	0.00	H
ATOM	876	HD3	LYS	X	251	46.104	69.033	127.256	1.00	0.00	H
ATOM	877	CE	LYS	X	251	45.576	71.227	127.085	1.00	0.00	C
ATOM	878	HE2	LYS	X	251	45.790	71.317	126.020	1.00	0.00	H
ATOM	879	HE3	LYS	X	251	44.648	71.738	127.347	1.00	0.00	H
ATOM	880	NZ	LYS	X	251	46.666	71.786	127.982	1.00	0.00	N
ATOM	881	HZ1	LYS	X	251	47.599	71.415	127.864	1.00	0.00	H
ATOM	882	HZ2	LYS	X	251	46.749	72.791	127.938	1.00	0.00	H
ATOM	883	HZ3	LYS	X	251	46.570	71.677	128.981	1.00	0.00	H
ATOM	884	C	LYS	X	251	44.212	69.095	122.559	1.00	0.00	C
ATOM	885	O	LYS	X	251	44.172	70.297	122.248	1.00	0.00	O
ATOM	886	N	SER	X	252	44.583	68.183	121.671	1.00	0.00	N
ATOM	887	H	SER	X	252	44.682	67.276	122.103	1.00	0.00	H
ATOM	888	CA	SER	X	252	45.281	68.403	120.421	1.00	0.00	C
ATOM	889	HA	SER	X	252	46.088	69.092	120.669	1.00	0.00	H
ATOM	890	CB	SER	X	252	45.978	67.193	119.922	1.00	0.00	C
ATOM	891	HB2	SER	X	252	46.771	67.678	119.354	1.00	0.00	H
ATOM	892	HB3	SER	X	252	46.513	66.692	120.728	1.00	0.00	H
ATOM	893	OG	SER	X	252	45.125	66.336	119.171	1.00	0.00	O
ATOM	894	HG	SER	X	252	44.403	66.153	119.777	1.00	0.00	H
ATOM	895	C	SER	X	252	44.630	69.134	119.239	1.00	0.00	C
ATOM	896	O	SER	X	252	45.370	69.818	118.458	1.00	0.00	O
ATOM	897	N	PRO	X	253	43.281	69.117	119.076	1.00	0.00	N
ATOM	898	CD	PRO	X	253	42.291	68.158	119.691	1.00	0.00	C
ATOM	899	HD2	PRO	X	253	42.036	68.485	120.698	1.00	0.00	H
ATOM	900	HD3	PRO	X	253	42.729	67.166	119.796	1.00	0.00	H

ATOM	901	CG	PRO	X	253	40.970	68.187	118.994	1.00	0.00	C
ATOM	902	HG2	PRO	X	253	40.069	68.082	119.599	1.00	0.00	H
ATOM	903	HG3	PRO	X	253	40.874	67.468	118.180	1.00	0.00	H
ATOM	904	CB	PRO	X	253	41.060	69.568	118.259	1.00	0.00	C
ATOM	905	HB2	PRO	X	253	40.754	70.362	118.940	1.00	0.00	H
ATOM	906	HB3	PRO	X	253	40.400	69.435	117.402	1.00	0.00	H
ATOM	907	CA	PRO	X	253	42.568	69.827	118.086	1.00	0.00	C
ATOM	908	HA	PRO	X	253	42.887	69.356	117.157	1.00	0.00	H
ATOM	909	C	PRO	X	253	42.939	71.342	117.994	1.00	0.00	C
ATOM	910	O	PRO	X	253	43.276	71.996	118.966	1.00	0.00	O
ATOM	911	N	ALA	X	254	42.679	71.977	116.864	1.00	0.00	N
ATOM	912	H	ALA	X	254	42.542	71.364	116.073	1.00	0.00	H
ATOM	913	CA	ALA	X	254	42.745	73.431	116.718	1.00	0.00	C
ATOM	914	HA	ALA	X	254	43.756	73.790	116.912	1.00	0.00	H
ATOM	915	CB	ALA	X	254	42.493	73.826	115.210	1.00	0.00	C
ATOM	916	HB1	ALA	X	254	41.421	73.746	115.028	1.00	0.00	H
ATOM	917	HB2	ALA	X	254	42.735	74.874	115.034	1.00	0.00	H
ATOM	918	HB3	ALA	X	254	43.071	73.196	114.535	1.00	0.00	H
ATOM	919	C	ALA	X	254	41.779	74.215	117.693	1.00	0.00	C
ATOM	920	O	ALA	X	254	40.590	73.934	117.652	1.00	0.00	O
ATOM	921	N	ALA	X	255	42.294	75.193	118.488	1.00	0.00	N
ATOM	922	H	ALA	X	255	43.283	75.397	118.503	1.00	0.00	H
ATOM	923	CA	ALA	X	255	41.422	75.859	119.498	1.00	0.00	C
ATOM	924	HA	ALA	X	255	40.484	75.974	118.955	1.00	0.00	H
ATOM	925	CB	ALA	X	255	41.031	75.012	120.704	1.00	0.00	C
ATOM	926	HB1	ALA	X	255	41.945	74.870	121.280	1.00	0.00	H
ATOM	927	HB2	ALA	X	255	40.195	75.531	121.174	1.00	0.00	H
ATOM	928	HB3	ALA	X	255	40.693	74.056	120.304	1.00	0.00	H
ATOM	929	C	ALA	X	255	42.106	77.151	119.937	1.00	0.00	C
ATOM	930	O	ALA	X	255	43.271	77.275	120.399	1.00	0.00	O
ATOM	931	N	LEU	X	256	41.346	78.237	119.860	1.00	0.00	N
ATOM	932	H	LEU	X	256	40.368	78.206	119.611	1.00	0.00	H
ATOM	933	CA	LEU	X	256	41.822	79.629	120.160	1.00	0.00	C
ATOM	934	HA	LEU	X	256	42.658	79.848	119.494	1.00	0.00	H
ATOM	935	CB	LEU	X	256	40.683	80.651	119.852	1.00	0.00	C
ATOM	936	HB2	LEU	X	256	39.750	80.384	120.347	1.00	0.00	H
ATOM	937	HB3	LEU	X	256	40.765	81.658	120.262	1.00	0.00	H
ATOM	938	CG	LEU	X	256	40.304	80.820	118.373	1.00	0.00	C
ATOM	939	HG	LEU	X	256	40.252	79.897	117.794	1.00	0.00	H
ATOM	940	CD1	LEU	X	256	39.000	81.571	118.227	1.00	0.00	C
ATOM	941	HD11	LEU	X	256	38.244	81.035	118.801	1.00	0.00	H
ATOM	942	HD12	LEU	X	256	39.169	82.567	118.636	1.00	0.00	H
ATOM	943	HD13	LEU	X	256	38.731	81.557	117.169	1.00	0.00	H
ATOM	944	CD2	LEU	X	256	41.339	81.643	117.671	1.00	0.00	C
ATOM	945	HD21	LEU	X	256	41.481	82.608	118.159	1.00	0.00	H
ATOM	946	HD22	LEU	X	256	42.321	81.169	117.706	1.00	0.00	H
ATOM	947	HD23	LEU	X	256	41.159	81.725	116.599	1.00	0.00	H
ATOM	948	C	LEU	X	256	42.309	79.854	121.599	1.00	0.00	C
ATOM	949	O	LEU	X	256	41.611	79.554	122.549	1.00	0.00	O
ATOM	950	N	GLY	X	257	43.406	80.595	121.694	1.00	0.00	N
ATOM	951	H	GLY	X	257	43.915	80.908	120.879	1.00	0.00	H
ATOM	952	CA	GLY	X	257	44.129	80.969	122.931	1.00	0.00	C
ATOM	953	HA2	GLY	X	257	44.745	80.136	123.270	1.00	0.00	H
ATOM	954	HA3	GLY	X	257	44.916	81.696	122.730	1.00	0.00	H
ATOM	955	C	GLY	X	257	43.244	81.661	124.012	1.00	0.00	C
ATOM	956	O	GLY	X	257	43.840	82.210	124.898	1.00	0.00	O
ATOM	957	N	LEU	X	258	41.881	81.862	123.942	1.00	0.00	N
ATOM	958	H	LEU	X	258	41.423	81.501	123.119	1.00	0.00	H
ATOM	959	CA	LEU	X	258	41.090	82.808	124.692	1.00	0.00	C
ATOM	960	HA	LEU	X	258	41.662	83.723	124.532	1.00	0.00	H
ATOM	961	CB	LEU	X	258	39.651	82.741	124.126	1.00	0.00	C
ATOM	962	HB2	LEU	X	258	39.580	82.742	123.039	1.00	0.00	H
ATOM	963	HB3	LEU	X	258	39.277	81.741	124.350	1.00	0.00	H
ATOM	964	CG	LEU	X	258	38.554	83.694	124.803	1.00	0.00	C
ATOM	965	HG	LEU	X	258	38.449	83.400	125.847	1.00	0.00	H
ATOM	966	CD1	LEU	X	258	39.057	85.197	124.647	1.00	0.00	C
ATOM	967	HD11	LEU	X	258	40.055	85.324	125.067	1.00	0.00	H
ATOM	968	HD12	LEU	X	258	39.144	85.557	123.622	1.00	0.00	H
ATOM	969	HD13	LEU	X	258	38.429	85.952	125.123	1.00	0.00	H
ATOM	970	CD2	LEU	X	258	37.285	83.581	124.107	1.00	0.00	C
ATOM	971	HD21	LEU	X	258	37.300	84.052	123.124	1.00	0.00	H
ATOM	972	HD22	LEU	X	258	37.021	82.526	124.023	1.00	0.00	H
ATOM	973	HD23	LEU	X	258	36.450	84.043	124.636	1.00	0.00	H
ATOM	974	C	LEU	X	258	41.089	82.677	126.228	1.00	0.00	C
ATOM	975	O	LEU	X	258	41.057	83.658	126.968	1.00	0.00	O
ATOM	976	N	GLU	X	259	41.030	81.410	126.662	1.00	0.00	N
ATOM	977	H	GLU	X	259	40.914	80.716	125.937	1.00	0.00	H
ATOM	978	CA	GLU	X	259	41.013	81.039	128.078	1.00	0.00	C
ATOM	979	HA	GLU	X	259	40.443	81.757	128.668	1.00	0.00	H
ATOM	980	CB	GLU	X	259	40.385	79.667	128.252	1.00	0.00	C
ATOM	981	HB2	GLU	X	259	40.999	78.866	127.841	1.00	0.00	H
ATOM	982	HB3	GLU	X	259	40.384	79.430	129.316	1.00	0.00	H

ATOM	983	CG	GLU	X	259	38.943	79.639	127.775	1.00	0.00	C
ATOM	984	HG2	GLU	X	259	38.951	79.813	126.700	1.00	0.00	H
ATOM	985	HG3	GLU	X	259	38.676	78.583	127.830	1.00	0.00	H
ATOM	986	CD	GLU	X	259	37.911	80.585	128.552	1.00	0.00	C
ATOM	987	OE1	GLU	X	259	38.356	81.395	129.416	1.00	0.00	O
ATOM	988	OE2	GLU	X	259	36.708	80.374	128.304	1.00	0.00	O
ATOM	989	C	GLU	X	259	42.408	81.116	128.700	1.00	0.00	C
ATOM	990	O	GLU	X	259	42.611	81.892	129.645	1.00	0.00	O
ATOM	991	N	GLU	X	260	43.386	80.564	127.980	1.00	0.00	N
ATOM	992	H	GLU	X	260	43.016	80.038	127.200	1.00	0.00	H
ATOM	993	CA	GLU	X	260	44.851	80.578	128.285	1.00	0.00	C
ATOM	994	HA	GLU	X	260	45.086	80.014	129.187	1.00	0.00	H
ATOM	995	CB	GLU	X	260	45.647	79.868	127.201	1.00	0.00	C
ATOM	996	HB2	GLU	X	260	45.656	80.478	126.297	1.00	0.00	H
ATOM	997	HB3	GLU	X	260	46.685	79.861	127.530	1.00	0.00	H
ATOM	998	CG	GLU	X	260	45.080	78.479	126.677	1.00	0.00	C
ATOM	999	HG2	GLU	X	260	44.025	78.508	126.403	1.00	0.00	H
ATOM	1000	HG3	GLU	X	260	45.735	78.211	125.848	1.00	0.00	H
ATOM	1001	CD	GLU	X	260	45.163	77.483	127.821	1.00	0.00	C
ATOM	1002	OE1	GLU	X	260	44.151	76.808	128.206	1.00	0.00	O
ATOM	1003	OE2	GLU	X	260	46.333	77.105	128.171	1.00	0.00	O
ATOM	1004	C	GLU	X	260	45.483	81.995	128.446	1.00	0.00	C
ATOM	1005	O	GLU	X	260	46.420	82.168	129.282	1.00	0.00	O
ATOM	1006	N	LEU	X	261	44.969	83.045	127.831	1.00	0.00	N
ATOM	1007	H	LEU	X	261	44.271	82.834	127.132	1.00	0.00	H
ATOM	1008	CA	LEU	X	261	45.291	84.471	128.043	1.00	0.00	C
ATOM	1009	HA	LEU	X	261	46.338	84.687	127.830	1.00	0.00	H
ATOM	1010	CB	LEU	X	261	44.462	85.270	126.968	1.00	0.00	C
ATOM	1011	HB2	LEU	X	261	44.638	84.803	125.999	1.00	0.00	H
ATOM	1012	HB3	LEU	X	261	43.418	85.083	127.223	1.00	0.00	H
ATOM	1013	CG	LEU	X	261	44.666	86.768	126.834	1.00	0.00	C
ATOM	1014	HG	LEU	X	261	44.507	87.174	127.833	1.00	0.00	H
ATOM	1015	CD1	LEU	X	261	46.101	87.184	126.446	1.00	0.00	C
ATOM	1016	HD11	LEU	X	261	46.447	86.613	125.585	1.00	0.00	H
ATOM	1017	HD12	LEU	X	261	46.014	88.226	126.138	1.00	0.00	H
ATOM	1018	HD13	LEU	X	261	46.806	86.958	127.246	1.00	0.00	H
ATOM	1019	CD2	LEU	X	261	43.634	87.321	125.833	1.00	0.00	C
ATOM	1020	HD21	LEU	X	261	42.656	86.838	125.862	1.00	0.00	H
ATOM	1021	HD22	LEU	X	261	43.391	88.371	125.992	1.00	0.00	H
ATOM	1022	HD23	LEU	X	261	44.148	87.274	124.873	1.00	0.00	H
ATOM	1023	C	LEU	X	261	44.937	85.008	129.452	1.00	0.00	C
ATOM	1024	O	LEU	X	261	45.511	86.019	129.756	1.00	0.00	O
ATOM	1025	N	PHE	X	262	44.244	84.267	130.282	1.00	0.00	N
ATOM	1026	H	PHE	X	262	43.827	83.463	129.831	1.00	0.00	H
ATOM	1027	CA	PHE	X	262	43.882	84.542	131.721	1.00	0.00	C
ATOM	1028	HA	PHE	X	262	44.427	85.362	132.187	1.00	0.00	H
ATOM	1029	CB	PHE	X	262	42.447	85.094	131.754	1.00	0.00	C
ATOM	1030	HB2	PHE	X	262	41.751	84.281	131.545	1.00	0.00	H
ATOM	1031	HB3	PHE	X	262	42.187	85.430	132.756	1.00	0.00	H
ATOM	1032	CG	PHE	X	262	42.219	86.226	130.723	1.00	0.00	C
ATOM	1033	CD1	PHE	X	262	42.770	87.505	130.902	1.00	0.00	C
ATOM	1034	HD1	PHE	X	262	43.361	87.696	131.785	1.00	0.00	H
ATOM	1035	CE1	PHE	X	262	42.490	88.519	130.027	1.00	0.00	C
ATOM	1036	HE1	PHE	X	262	42.832	89.536	130.150	1.00	0.00	H
ATOM	1037	CZ	PHE	X	262	41.743	88.212	128.873	1.00	0.00	C
ATOM	1038	HZ	PHE	X	262	41.517	88.965	128.133	1.00	0.00	H
ATOM	1039	CE2	PHE	X	262	41.209	86.962	128.657	1.00	0.00	C
ATOM	1040	HE2	PHE	X	262	40.569	86.787	127.803	1.00	0.00	H
ATOM	1041	CD2	PHE	X	262	41.437	85.955	129.625	1.00	0.00	C
ATOM	1042	HD2	PHE	X	262	41.061	84.951	129.493	1.00	0.00	H
ATOM	1043	C	PHE	X	262	44.098	83.339	132.719	1.00	0.00	C
ATOM	1044	O	PHE	X	262	44.205	83.679	133.876	1.00	0.00	O
ATOM	1045	N	SER	X	263	43.861	82.081	132.338	1.00	0.00	N
ATOM	1046	H	SER	X	263	43.527	81.948	131.395	1.00	0.00	H
ATOM	1047	CA	SER	X	263	43.972	80.914	133.179	1.00	0.00	C
ATOM	1048	HA	SER	X	263	43.428	81.078	134.110	1.00	0.00	H
ATOM	1049	CB	SER	X	263	43.302	79.780	132.446	1.00	0.00	C
ATOM	1050	HB2	SER	X	263	42.334	80.131	132.088	1.00	0.00	H
ATOM	1051	HB3	SER	X	263	43.965	79.650	131.590	1.00	0.00	H
ATOM	1052	OG	SER	X	263	43.216	78.541	133.168	1.00	0.00	O
ATOM	1053	HG	SER	X	263	43.723	77.839	132.752	1.00	0.00	H
ATOM	1054	C	SER	X	263	45.438	80.514	133.553	1.00	0.00	C
ATOM	1055	O	SER	X	263	46.301	80.493	132.652	1.00	0.00	O
ATOM	1056	N	PRO	X	264	45.744	79.979	134.761	1.00	0.00	N
ATOM	1057	CD	PRO	X	264	44.817	79.911	135.928	1.00	0.00	C
ATOM	1058	HD2	PRO	X	264	43.799	79.603	135.685	1.00	0.00	H
ATOM	1059	HD3	PRO	X	264	44.811	80.915	136.352	1.00	0.00	H
ATOM	1060	CG	PRO	X	264	45.479	79.071	136.973	1.00	0.00	C
ATOM	1061	HG2	PRO	X	264	45.202	78.030	136.805	1.00	0.00	H
ATOM	1062	HG3	PRO	X	264	45.230	79.283	138.014	1.00	0.00	H
ATOM	1063	CB	PRO	X	264	46.987	79.230	136.625	1.00	0.00	C
ATOM	1064	HB2	PRO	X	264	47.605	78.431	137.034	1.00	0.00	H

ATOM	1065	HB3	PRO	X	264	47.327	80.234	136.877	1.00	0.00	H
ATOM	1066	CA	PRO	X	264	47.022	79.175	135.108	1.00	0.00	C
ATOM	1067	HA	PRO	X	264	47.879	79.723	134.714	1.00	0.00	H
ATOM	1068	C	PRO	X	264	47.011	77.770	134.476	1.00	0.00	C
ATOM	1069	O	PRO	X	264	45.968	77.165	134.146	1.00	0.00	O
ATOM	1070	N	ASN	X	265	48.168	77.137	134.454	1.00	0.00	N
ATOM	1071	H	ASN	X	265	48.932	77.714	134.778	1.00	0.00	H
ATOM	1072	CA	ASN	X	265	48.428	75.723	134.116	1.00	0.00	C
ATOM	1073	HA	ASN	X	265	47.676	75.449	133.375	1.00	0.00	H
ATOM	1074	CB	ASN	X	265	49.779	75.527	133.435	1.00	0.00	C
ATOM	1075	HB2	ASN	X	265	50.500	75.596	134.249	1.00	0.00	H
ATOM	1076	HB3	ASN	X	265	49.632	74.526	133.030	1.00	0.00	H
ATOM	1077	CG	ASN	X	265	50.126	76.494	132.356	1.00	0.00	C
ATOM	1078	OD1	ASN	X	265	50.413	77.629	132.610	1.00	0.00	O
ATOM	1079	ND2	ASN	X	265	50.278	76.130	131.077	1.00	0.00	N
ATOM	1080	HD21	ASN	X	265	50.410	76.805	130.337	1.00	0.00	H
ATOM	1081	HD22	ASN	X	265	49.982	75.207	130.800	1.00	0.00	H
ATOM	1082	C	ASN	X	265	48.222	74.800	135.346	1.00	0.00	C
ATOM	1083	O	ASN	X	265	47.443	73.804	135.291	1.00	0.00	O
ATOM	1084	N	GLY	X	266	48.864	75.074	136.499	1.00	0.00	N
ATOM	1085	H	GLY	X	266	49.576	75.788	136.529	1.00	0.00	H
ATOM	1086	CA	GLY	X	266	48.680	74.252	137.675	1.00	0.00	C
ATOM	1087	HA2	GLY	X	266	48.730	73.189	137.439	1.00	0.00	H
ATOM	1088	HA3	GLY	X	266	49.413	74.454	138.456	1.00	0.00	H
ATOM	1089	C	GLY	X	266	47.299	74.392	138.410	1.00	0.00	C
ATOM	1090	O	GLY	X	266	46.500	75.350	138.197	1.00	0.00	O
ATOM	1091	N	HIE	X	267	46.855	73.410	139.227	1.00	0.00	N
ATOM	1092	H	HIE	X	267	47.444	72.610	139.399	1.00	0.00	H
ATOM	1093	CA	HIE	X	267	45.686	73.497	140.105	1.00	0.00	C
ATOM	1094	HA	HIE	X	267	44.780	73.813	139.590	1.00	0.00	H
ATOM	1095	CB	HIE	X	267	45.363	72.091	140.733	1.00	0.00	C
ATOM	1096	HB2	HIE	X	267	44.279	72.095	140.856	1.00	0.00	H
ATOM	1097	HB3	HIE	X	267	45.602	71.382	139.943	1.00	0.00	H
ATOM	1098	CG	HIE	X	267	46.110	71.742	141.953	1.00	0.00	C
ATOM	1099	ND1	HIE	X	267	47.465	71.393	141.888	1.00	0.00	N
ATOM	1100	CE1	HIE	X	267	47.899	71.423	143.155	1.00	0.00	C
ATOM	1101	HE1	HIE	X	267	48.894	71.208	143.515	1.00	0.00	H
ATOM	1102	NE2	HIE	X	267	46.854	71.670	144.023	1.00	0.00	N
ATOM	1103	HE2	HIE	X	267	46.977	71.832	145.012	1.00	0.00	H
ATOM	1104	CD2	HIE	X	267	45.728	71.883	143.248	1.00	0.00	C
ATOM	1105	HD2	HIE	X	267	44.759	72.257	143.545	1.00	0.00	H
ATOM	1106	C	HIE	X	267	45.847	74.623	141.247	1.00	0.00	C
ATOM	1107	O	HIE	X	267	44.871	75.077	141.812	1.00	0.00	O
ATOM	1108	N	LEU	X	268	47.085	74.978	141.621	1.00	0.00	N
ATOM	1109	H	LEU	X	268	47.850	74.445	141.229	1.00	0.00	H
ATOM	1110	CA	LEU	X	268	47.593	76.194	142.320	1.00	0.00	C
ATOM	1111	HA	LEU	X	268	46.856	76.525	143.051	1.00	0.00	H
ATOM	1112	CB	LEU	X	268	48.915	75.904	143.042	1.00	0.00	C
ATOM	1113	HB2	LEU	X	268	49.676	75.515	142.367	1.00	0.00	H
ATOM	1114	HB3	LEU	X	268	49.291	76.817	143.503	1.00	0.00	H
ATOM	1115	CG	LEU	X	268	48.772	74.860	144.204	1.00	0.00	C
ATOM	1116	HG	LEU	X	268	47.931	74.201	143.993	1.00	0.00	H
ATOM	1117	CD1	LEU	X	268	50.025	74.085	144.374	1.00	0.00	C
ATOM	1118	HD11	LEU	X	268	50.032	73.543	145.320	1.00	0.00	H
ATOM	1119	HD12	LEU	X	268	50.207	73.502	143.472	1.00	0.00	H
ATOM	1120	HD13	LEU	X	268	50.821	74.817	144.508	1.00	0.00	H
ATOM	1121	CD2	LEU	X	268	48.336	75.571	145.457	1.00	0.00	C
ATOM	1122	HD21	LEU	X	268	49.115	76.244	145.816	1.00	0.00	H
ATOM	1123	HD22	LEU	X	268	47.424	76.142	145.280	1.00	0.00	H
ATOM	1124	HD23	LEU	X	268	48.054	74.821	146.195	1.00	0.00	H
ATOM	1125	C	LEU	X	268	47.843	77.333	141.359	1.00	0.00	C
ATOM	1126	O	LEU	X	268	48.231	77.188	140.205	1.00	0.00	O
ATOM	1127	N	ASN	X	269	47.620	78.560	141.817	1.00	0.00	N
ATOM	1128	H	ASN	X	269	47.224	78.668	142.741	1.00	0.00	H
ATOM	1129	CA	ASN	X	269	48.052	79.845	141.221	1.00	0.00	C
ATOM	1130	HA	ASN	X	269	47.873	79.970	140.152	1.00	0.00	H
ATOM	1131	CB	ASN	X	269	47.312	81.036	141.838	1.00	0.00	C
ATOM	1132	HB2	ASN	X	269	47.369	81.085	142.926	1.00	0.00	H
ATOM	1133	HB3	ASN	X	269	47.913	81.895	141.538	1.00	0.00	H
ATOM	1134	CG	ASN	X	269	45.932	81.416	141.367	1.00	0.00	C
ATOM	1135	OD1	ASN	X	269	45.016	81.488	142.167	1.00	0.00	O
ATOM	1136	ND2	ASN	X	269	45.647	81.565	140.061	1.00	0.00	N
ATOM	1137	HD21	ASN	X	269	44.733	81.653	139.640	1.00	0.00	H
ATOM	1138	HD22	ASN	X	269	46.419	81.770	139.444	1.00	0.00	H
ATOM	1139	C	ASN	X	269	49.655	79.878	141.335	1.00	0.00	C
ATOM	1140	O	ASN	X	269	50.302	79.038	141.971	1.00	0.00	O
ATOM	1141	N	GLU	X	270	50.240	80.849	140.670	1.00	0.00	N
ATOM	1142	H	GLU	X	270	49.622	81.387	140.081	1.00	0.00	H
ATOM	1143	CA	GLU	X	270	51.667	81.204	140.648	1.00	0.00	C
ATOM	1144	HA	GLU	X	270	52.044	81.327	141.663	1.00	0.00	H
ATOM	1145	CB	GLU	X	270	52.488	80.078	139.965	1.00	0.00	C
ATOM	1146	HB2	GLU	X	270	52.414	79.266	140.686	1.00	0.00	H

ATOM	1147	HB3	GLU	X	270	52.111	79.949	138.951	1.00	0.00	H
ATOM	1148	CG	GLU	X	270	53.940	80.430	139.666	1.00	0.00	C
ATOM	1149	HG2	GLU	X	270	54.381	79.581	139.145	1.00	0.00	H
ATOM	1150	HG3	GLU	X	270	53.927	81.295	139.002	1.00	0.00	H
ATOM	1151	CD	GLU	X	270	54.828	80.754	140.812	1.00	0.00	C
ATOM	1152	OE1	GLU	X	270	55.780	81.561	140.619	1.00	0.00	O
ATOM	1153	OE2	GLU	X	270	54.566	80.481	142.013	1.00	0.00	O
ATOM	1154	C	GLU	X	270	51.868	82.592	139.941	1.00	0.00	C
ATOM	1155	O	GLU	X	270	52.538	83.533	140.516	1.00	0.00	O
ATOM	1156	N	ASP	X	271	51.330	82.754	138.683	1.00	0.00	N
ATOM	1157	H	ASP	X	271	51.409	83.729	138.431	1.00	0.00	H
ATOM	1158	CA	ASP	X	271	50.773	81.807	137.686	1.00	0.00	C
ATOM	1159	HA	ASP	X	271	50.210	80.958	138.076	1.00	0.00	H
ATOM	1160	CB	ASP	X	271	49.594	82.485	137.016	1.00	0.00	C
ATOM	1161	HB2	ASP	X	271	49.896	83.470	136.660	1.00	0.00	H
ATOM	1162	HB3	ASP	X	271	49.240	81.917	136.157	1.00	0.00	H
ATOM	1163	CG	ASP	X	271	48.350	82.785	137.914	1.00	0.00	C
ATOM	1164	OD1	ASP	X	271	48.182	82.370	139.108	1.00	0.00	O
ATOM	1165	OD2	ASP	X	271	47.432	83.370	137.328	1.00	0.00	O
ATOM	1166	C	ASP	X	271	51.804	81.223	136.662	1.00	0.00	C
ATOM	1167	O	ASP	X	271	51.582	80.131	136.160	1.00	0.00	O
ATOM	1168	N	ALA	X	272	52.894	81.866	136.249	1.00	0.00	N
ATOM	1169	H	ALA	X	272	53.480	81.299	135.652	1.00	0.00	H
ATOM	1170	CA	ALA	X	272	53.428	83.259	136.379	1.00	0.00	C
ATOM	1171	HA	ALA	X	272	53.767	83.347	137.411	1.00	0.00	H
ATOM	1172	CB	ALA	X	272	54.687	83.333	135.537	1.00	0.00	C
ATOM	1173	HB1	ALA	X	272	55.074	84.339	135.706	1.00	0.00	H
ATOM	1174	HB2	ALA	X	272	55.399	82.557	135.818	1.00	0.00	H
ATOM	1175	HB3	ALA	X	272	54.384	83.221	134.497	1.00	0.00	H
ATOM	1176	C	ALA	X	272	52.444	84.344	136.026	1.00	0.00	C
ATOM	1177	O	ALA	X	272	51.625	84.138	135.185	1.00	0.00	O
ATOM	1178	N	ASP	X	273	52.543	85.510	136.634	1.00	0.00	N
ATOM	1179	H	ASP	X	273	53.366	85.605	137.211	1.00	0.00	H
ATOM	1180	CA	ASP	X	273	51.610	86.645	136.468	1.00	0.00	C
ATOM	1181	HA	ASP	X	273	50.594	86.270	136.352	1.00	0.00	H
ATOM	1182	CB	ASP	X	273	51.572	87.506	137.753	1.00	0.00	C
ATOM	1183	HB2	ASP	X	273	52.481	88.107	137.793	1.00	0.00	H
ATOM	1184	HB3	ASP	X	273	50.691	88.142	137.837	1.00	0.00	H
ATOM	1185	CG	ASP	X	273	51.535	86.768	139.083	1.00	0.00	C
ATOM	1186	OD1	ASP	X	273	50.849	85.742	139.124	1.00	0.00	O
ATOM	1187	OD2	ASP	X	273	52.118	87.220	140.099	1.00	0.00	O
ATOM	1188	C	ASP	X	273	51.915	87.488	135.185	1.00	0.00	C
ATOM	1189	O	ASP	X	273	51.283	88.460	135.024	1.00	0.00	O
ATOM	1190	N	THR	X	274	52.770	87.074	134.241	1.00	0.00	N
ATOM	1191	H	THR	X	274	53.113	86.133	134.367	1.00	0.00	H
ATOM	1192	CA	THR	X	274	52.906	87.743	132.847	1.00	0.00	C
ATOM	1193	HA	THR	X	274	52.112	88.473	132.689	1.00	0.00	H
ATOM	1194	CB	THR	X	274	54.237	88.459	132.753	1.00	0.00	C
ATOM	1195	HB	THR	X	274	54.991	87.689	132.597	1.00	0.00	H
ATOM	1196	CG2	THR	X	274	54.319	89.355	131.557	1.00	0.00	C
ATOM	1197	HG21	THR	X	274	55.081	90.115	131.723	1.00	0.00	H
ATOM	1198	HG22	THR	X	274	54.314	88.776	130.634	1.00	0.00	H
ATOM	1199	HG23	THR	X	274	53.397	89.934	131.494	1.00	0.00	H
ATOM	1200	OG1	THR	X	274	54.488	89.189	133.958	1.00	0.00	O
ATOM	1201	HG1	THR	X	274	54.472	88.517	134.645	1.00	0.00	H
ATOM	1202	C	THR	X	274	52.663	86.761	131.608	1.00	0.00	C
ATOM	1203	O	THR	X	274	53.236	85.649	131.625	1.00	0.00	O
ATOM	1204	N	VAL	X	275	51.966	87.229	130.540	1.00	0.00	N
ATOM	1205	H	VAL	X	275	51.647	88.187	130.559	1.00	0.00	H
ATOM	1206	CA	VAL	X	275	51.910	86.541	129.266	1.00	0.00	C
ATOM	1207	HA	VAL	X	275	52.662	85.758	129.172	1.00	0.00	H
ATOM	1208	CB	VAL	X	275	50.572	85.984	129.021	1.00	0.00	C
ATOM	1209	HB	VAL	X	275	50.660	85.573	128.016	1.00	0.00	H
ATOM	1210	CG1	VAL	X	275	50.243	84.805	130.040	1.00	0.00	C
ATOM	1211	HG11	VAL	X	275	51.051	84.076	130.109	1.00	0.00	H
ATOM	1212	HG12	VAL	X	275	50.158	85.233	131.038	1.00	0.00	H
ATOM	1213	HG13	VAL	X	275	49.252	84.395	129.851	1.00	0.00	H
ATOM	1214	CG2	VAL	X	275	49.427	86.958	128.965	1.00	0.00	C
ATOM	1215	HG21	VAL	X	275	48.884	87.114	129.898	1.00	0.00	H
ATOM	1216	HG22	VAL	X	275	49.862	87.922	128.700	1.00	0.00	H
ATOM	1217	HG23	VAL	X	275	48.701	86.591	128.241	1.00	0.00	H
ATOM	1218	C	VAL	X	275	52.331	87.554	128.228	1.00	0.00	C
ATOM	1219	O	VAL	X	275	52.163	88.760	128.431	1.00	0.00	O
ATOM	1220	N	LEU	X	276	52.791	87.045	127.093	1.00	0.00	N
ATOM	1221	H	LEU	X	276	52.880	86.040	127.053	1.00	0.00	H
ATOM	1222	CA	LEU	X	276	53.376	87.839	126.058	1.00	0.00	C
ATOM	1223	HA	LEU	X	276	53.148	88.854	126.385	1.00	0.00	H
ATOM	1224	CB	LEU	X	276	54.938	87.599	125.966	1.00	0.00	C
ATOM	1225	HB2	LEU	X	276	55.235	88.048	126.913	1.00	0.00	H
ATOM	1226	HB3	LEU	X	276	55.209	86.545	125.901	1.00	0.00	H
ATOM	1227	CG	LEU	X	276	55.661	88.397	124.844	1.00	0.00	C
ATOM	1228	HG	LEU	X	276	55.240	88.113	123.879	1.00	0.00	H

ATOM	1229	CD1	LEU	X	276	55.549	89.873	125.019	1.00	0.00	C
ATOM	1230	HD11	LEU	X	276	56.223	90.369	124.322	1.00	0.00	H
ATOM	1231	HD12	LEU	X	276	54.508	90.139	124.824	1.00	0.00	H
ATOM	1232	HD13	LEU	X	276	55.826	90.150	126.035	1.00	0.00	H
ATOM	1233	CD2	LEU	X	276	57.154	88.095	124.859	1.00	0.00	C
ATOM	1234	HD21	LEU	X	276	57.301	87.020	124.773	1.00	0.00	H
ATOM	1235	HD22	LEU	X	276	57.774	88.629	124.138	1.00	0.00	H
ATOM	1236	HD23	LEU	X	276	57.434	88.325	125.886	1.00	0.00	H
ATOM	1237	C	LEU	X	276	52.637	87.519	124.707	1.00	0.00	C
ATOM	1238	O	LEU	X	276	52.957	86.545	124.063	1.00	0.00	O
ATOM	1239	N	VAL	X	277	51.760	88.447	124.272	1.00	0.00	N
ATOM	1240	H	VAL	X	277	51.613	89.206	124.921	1.00	0.00	H
ATOM	1241	CA	VAL	X	277	51.254	88.479	122.855	1.00	0.00	C
ATOM	1242	HA	VAL	X	277	50.922	87.504	122.496	1.00	0.00	H
ATOM	1243	CB	VAL	X	277	49.992	89.338	122.828	1.00	0.00	C
ATOM	1244	HB	VAL	X	277	50.201	90.313	123.267	1.00	0.00	H
ATOM	1245	CG1	VAL	X	277	49.436	89.586	121.434	1.00	0.00	C
ATOM	1246	HG11	VAL	X	277	48.664	90.354	121.459	1.00	0.00	H
ATOM	1247	HG12	VAL	X	277	50.325	89.866	120.870	1.00	0.00	H
ATOM	1248	HG13	VAL	X	277	48.942	88.694	121.047	1.00	0.00	H
ATOM	1249	CG2	VAL	X	277	48.832	88.751	123.730	1.00	0.00	C
ATOM	1250	HG21	VAL	X	277	48.424	87.781	123.444	1.00	0.00	H
ATOM	1251	HG22	VAL	X	277	49.253	88.833	124.732	1.00	0.00	H
ATOM	1252	HG23	VAL	X	277	48.035	89.492	123.800	1.00	0.00	H
ATOM	1253	C	VAL	X	277	52.441	88.889	121.996	1.00	0.00	C
ATOM	1254	O	VAL	X	277	52.950	89.989	122.141	1.00	0.00	O
ATOM	1255	N	VAL	X	278	52.793	88.089	120.974	1.00	0.00	N
ATOM	1256	H	VAL	X	278	52.398	87.160	120.933	1.00	0.00	H
ATOM	1257	CA	VAL	X	278	53.567	88.569	119.741	1.00	0.00	C
ATOM	1258	HA	VAL	X	278	54.076	89.488	120.035	1.00	0.00	H
ATOM	1259	CB	VAL	X	278	54.617	87.452	119.461	1.00	0.00	C
ATOM	1260	HB	VAL	X	278	54.090	86.536	119.196	1.00	0.00	H
ATOM	1261	CG1	VAL	X	278	55.622	87.872	118.372	1.00	0.00	C
ATOM	1262	HG11	VAL	X	278	56.102	88.777	118.744	1.00	0.00	H
ATOM	1263	HG12	VAL	X	278	56.223	87.028	118.034	1.00	0.00	H
ATOM	1264	HG13	VAL	X	278	54.993	88.118	117.516	1.00	0.00	H
ATOM	1265	CG2	VAL	X	278	55.452	87.148	120.666	1.00	0.00	C
ATOM	1266	HG21	VAL	X	278	55.976	88.042	121.004	1.00	0.00	H
ATOM	1267	HG22	VAL	X	278	54.842	86.760	121.482	1.00	0.00	H
ATOM	1268	HG23	VAL	X	278	56.136	86.313	120.511	1.00	0.00	H
ATOM	1269	C	VAL	X	278	52.682	88.669	118.593	1.00	0.00	C
ATOM	1270	O	VAL	X	278	51.756	87.854	118.544	1.00	0.00	O
ATOM	1271	N	GLY	X	279	52.876	89.480	117.579	1.00	0.00	N
ATOM	1272	H	GLY	X	279	53.457	90.283	117.775	1.00	0.00	H
ATOM	1273	CA	GLY	X	279	52.453	89.294	116.191	1.00	0.00	C
ATOM	1274	HA2	GLY	X	279	52.525	88.263	115.846	1.00	0.00	H
ATOM	1275	HA3	GLY	X	279	51.433	89.680	116.205	1.00	0.00	H
ATOM	1276	C	GLY	X	279	53.110	90.343	115.228	1.00	0.00	C
ATOM	1277	O	GLY	X	279	53.553	91.416	115.615	1.00	0.00	O
ATOM	1278	N	GLU	X	280	53.202	90.041	113.921	1.00	0.00	N
ATOM	1279	H	GLU	X	280	52.589	89.300	113.609	1.00	0.00	H
ATOM	1280	CA	GLU	X	280	53.732	91.038	112.949	1.00	0.00	C
ATOM	1281	HA	GLU	X	280	54.788	91.217	113.149	1.00	0.00	H
ATOM	1282	CB	GLU	X	280	53.572	90.327	111.591	1.00	0.00	C
ATOM	1283	HB2	GLU	X	280	52.582	89.874	111.545	1.00	0.00	H
ATOM	1284	HB3	GLU	X	280	53.443	91.069	110.802	1.00	0.00	H
ATOM	1285	CG	GLU	X	280	54.616	89.288	111.228	1.00	0.00	C
ATOM	1286	HG2	GLU	X	280	54.951	88.660	112.054	1.00	0.00	H
ATOM	1287	HG3	GLU	X	280	54.144	88.613	110.511	1.00	0.00	H
ATOM	1288	CD	GLU	X	280	55.862	89.855	110.473	1.00	0.00	C
ATOM	1289	OE1	GLU	X	280	56.433	89.169	109.618	1.00	0.00	O
ATOM	1290	OE2	GLU	X	280	56.110	91.034	110.811	1.00	0.00	O
ATOM	1291	C	GLU	X	280	53.144	92.450	112.960	1.00	0.00	C
ATOM	1292	O	GLU	X	280	52.122	92.664	113.550	1.00	0.00	O
ATOM	1293	N	ALA	X	281	53.859	93.377	112.264	1.00	0.00	N
ATOM	1294	H	ALA	X	281	54.598	93.039	111.664	1.00	0.00	H
ATOM	1295	CA	ALA	X	281	53.292	94.722	111.949	1.00	0.00	C
ATOM	1296	HA	ALA	X	281	53.196	95.197	112.925	1.00	0.00	H
ATOM	1297	CB	ALA	X	281	54.283	95.427	111.032	1.00	0.00	C
ATOM	1298	HB1	ALA	X	281	54.435	94.845	110.123	1.00	0.00	H
ATOM	1299	HB2	ALA	X	281	54.029	96.444	110.733	1.00	0.00	H
ATOM	1300	HB3	ALA	X	281	55.169	95.486	111.664	1.00	0.00	H
ATOM	1301	C	ALA	X	281	51.827	94.607	111.463	1.00	0.00	C
ATOM	1302	O	ALA	X	281	51.566	94.067	110.369	1.00	0.00	O
ATOM	1303	N	GLY	X	282	50.879	95.249	112.130	1.00	0.00	N
ATOM	1304	H	GLY	X	282	51.159	95.704	112.987	1.00	0.00	H
ATOM	1305	CA	GLY	X	282	49.524	95.414	111.773	1.00	0.00	C
ATOM	1306	HA2	GLY	X	282	49.162	96.315	112.269	1.00	0.00	H
ATOM	1307	HA3	GLY	X	282	49.372	95.769	110.754	1.00	0.00	H
ATOM	1308	C	GLY	X	282	48.495	94.308	112.055	1.00	0.00	C
ATOM	1309	O	GLY	X	282	47.322	94.520	111.701	1.00	0.00	O
ATOM	1310	N	SER	X	283	48.950	93.199	112.682	1.00	0.00	N

ATOM	1311	H	SER	X	283	49.888	93.310	113.039	1.00	0.00	H
ATOM	1312	CA	SER	X	283	48.227	91.960	113.044	1.00	0.00	C
ATOM	1313	HA	SER	X	283	47.734	91.543	112.166	1.00	0.00	H
ATOM	1314	CB	SER	X	283	49.343	90.998	113.488	1.00	0.00	C
ATOM	1315	HB2	SER	X	283	48.844	90.062	113.742	1.00	0.00	H
ATOM	1316	HB3	SER	X	283	50.061	90.797	112.694	1.00	0.00	H
ATOM	1317	OG	SER	X	283	49.960	91.565	114.638	1.00	0.00	O
ATOM	1318	HG	SER	X	283	50.717	92.062	114.318	1.00	0.00	H
ATOM	1319	C	SER	X	283	47.149	92.148	114.125	1.00	0.00	C
ATOM	1320	O	SER	X	283	46.399	91.183	114.197	1.00	0.00	O
ATOM	1321	N	GLY	X	284	47.006	93.312	114.883	1.00	0.00	N
ATOM	1322	H	GLY	X	284	47.528	94.157	114.697	1.00	0.00	H
ATOM	1323	CA	GLY	X	284	45.807	93.541	115.748	1.00	0.00	C
ATOM	1324	HA2	GLY	X	284	45.281	94.431	115.400	1.00	0.00	H
ATOM	1325	HA3	GLY	X	284	45.048	92.771	115.620	1.00	0.00	H
ATOM	1326	C	GLY	X	284	46.195	93.680	117.241	1.00	0.00	C
ATOM	1327	O	GLY	X	284	45.242	93.548	117.999	1.00	0.00	O
ATOM	1328	N	LYS	X	285	47.457	93.915	117.511	1.00	0.00	N
ATOM	1329	H	LYS	X	285	48.068	94.110	116.732	1.00	0.00	H
ATOM	1330	CA	LYS	X	285	47.983	94.017	118.881	1.00	0.00	C
ATOM	1331	HA	LYS	X	285	47.922	93.094	119.456	1.00	0.00	H
ATOM	1332	CB	LYS	X	285	49.482	94.199	118.933	1.00	0.00	C
ATOM	1333	HB2	LYS	X	285	49.757	95.089	118.369	1.00	0.00	H
ATOM	1334	HB3	LYS	X	285	49.797	94.288	119.972	1.00	0.00	H
ATOM	1335	CG	LYS	X	285	50.177	92.942	118.285	1.00	0.00	C
ATOM	1336	HG2	LYS	X	285	49.899	92.109	118.930	1.00	0.00	H
ATOM	1337	HG3	LYS	X	285	49.768	92.865	117.277	1.00	0.00	H
ATOM	1338	CD	LYS	X	285	51.718	92.931	118.213	1.00	0.00	C
ATOM	1339	HD2	LYS	X	285	52.103	92.856	119.230	1.00	0.00	H
ATOM	1340	HD3	LYS	X	285	52.010	91.997	117.732	1.00	0.00	H
ATOM	1341	CE	LYS	X	285	52.455	93.966	117.394	1.00	0.00	C
ATOM	1342	HE2	LYS	X	285	52.234	94.937	117.838	1.00	0.00	H
ATOM	1343	HE3	LYS	X	285	53.524	93.761	117.452	1.00	0.00	H
ATOM	1344	NZ	LYS	X	285	52.065	93.887	116.042	1.00	0.00	N
ATOM	1345	HZ1	LYS	X	285	52.297	92.973	115.679	1.00	0.00	H
ATOM	1346	HZ2	LYS	X	285	51.100	94.155	115.910	1.00	0.00	H
ATOM	1347	HZ3	LYS	X	285	52.661	94.524	115.532	1.00	0.00	H
ATOM	1348	C	LYS	X	285	47.257	95.031	119.826	1.00	0.00	C
ATOM	1349	O	LYS	X	285	46.750	94.681	120.931	1.00	0.00	O
ATOM	1350	N	SER	X	286	46.995	96.218	119.328	1.00	0.00	N
ATOM	1351	H	SER	X	286	47.519	96.469	118.503	1.00	0.00	H
ATOM	1352	CA	SER	X	286	46.118	97.166	119.995	1.00	0.00	C
ATOM	1353	HA	SER	X	286	46.439	97.358	121.018	1.00	0.00	H
ATOM	1354	CB	SER	X	286	46.211	98.535	119.330	1.00	0.00	C
ATOM	1355	HB2	SER	X	286	45.640	98.457	118.405	1.00	0.00	H
ATOM	1356	HB3	SER	X	286	45.659	99.223	119.969	1.00	0.00	H
ATOM	1357	OG	SER	X	286	47.595	98.972	119.143	1.00	0.00	O
ATOM	1358	HG	SER	X	286	48.049	98.789	119.969	1.00	0.00	H
ATOM	1359	C	SER	X	286	44.710	96.628	120.082	1.00	0.00	C
ATOM	1360	O	SER	X	286	44.190	96.815	121.181	1.00	0.00	O
ATOM	1361	N	THR	X	287	44.052	96.047	119.042	1.00	0.00	N
ATOM	1362	H	THR	X	287	44.507	95.999	118.142	1.00	0.00	H
ATOM	1363	CA	THR	X	287	42.716	95.625	118.981	1.00	0.00	C
ATOM	1364	HA	THR	X	287	42.088	96.496	119.171	1.00	0.00	H
ATOM	1365	CB	THR	X	287	42.278	95.295	117.532	1.00	0.00	C
ATOM	1366	HB	THR	X	287	42.772	94.348	117.313	1.00	0.00	H
ATOM	1367	CG2	THR	X	287	40.751	95.036	117.480	1.00	0.00	C
ATOM	1368	HG21	THR	X	287	40.645	94.024	117.871	1.00	0.00	H
ATOM	1369	HG22	THR	X	287	40.241	95.701	118.176	1.00	0.00	H
ATOM	1370	HG23	THR	X	287	40.296	95.112	116.492	1.00	0.00	H
ATOM	1371	OG1	THR	X	287	42.577	96.238	116.534	1.00	0.00	O
ATOM	1372	HG1	THR	X	287	43.526	96.367	116.604	1.00	0.00	H
ATOM	1373	C	THR	X	287	42.384	94.575	120.005	1.00	0.00	C
ATOM	1374	O	THR	X	287	41.386	94.742	120.659	1.00	0.00	O
ATOM	1375	N	LEU	X	288	43.226	93.586	120.223	1.00	0.00	N
ATOM	1376	H	LEU	X	288	43.810	93.418	119.416	1.00	0.00	H
ATOM	1377	CA	LEU	X	288	43.024	92.634	121.335	1.00	0.00	C
ATOM	1378	HA	LEU	X	288	42.066	92.166	121.108	1.00	0.00	H
ATOM	1379	CB	LEU	X	288	44.046	91.492	121.373	1.00	0.00	C
ATOM	1380	HB2	LEU	X	288	43.923	90.971	120.422	1.00	0.00	H
ATOM	1381	HB3	LEU	X	288	45.044	91.929	121.328	1.00	0.00	H
ATOM	1382	CG	LEU	X	288	43.822	90.421	122.437	1.00	0.00	C
ATOM	1383	HG	LEU	X	288	43.737	90.871	123.426	1.00	0.00	H
ATOM	1384	CD1	LEU	X	288	42.624	89.496	122.167	1.00	0.00	C
ATOM	1385	HD11	LEU	X	288	41.707	90.082	122.085	1.00	0.00	H
ATOM	1386	HD12	LEU	X	288	42.834	88.939	121.254	1.00	0.00	H
ATOM	1387	HD13	LEU	X	288	42.597	88.762	122.972	1.00	0.00	H
ATOM	1388	CD2	LEU	X	288	44.996	89.496	122.487	1.00	0.00	C
ATOM	1389	HD21	LEU	X	288	44.840	88.627	123.127	1.00	0.00	H
ATOM	1390	HD22	LEU	X	288	45.243	89.196	121.469	1.00	0.00	H
ATOM	1391	HD23	LEU	X	288	45.864	89.992	122.922	1.00	0.00	H
ATOM	1392	C	LEU	X	288	42.843	93.364	122.674	1.00	0.00	C

ATOM	1393	O	LEU	X	288	41.835	93.302	123.351	1.00	0.00	O
ATOM	1394	N	LEU	X	289	43.805	94.188	123.015	1.00	0.00	N
ATOM	1395	H	LEU	X	289	44.575	94.295	122.370	1.00	0.00	H
ATOM	1396	CA	LEU	X	289	43.827	94.883	124.296	1.00	0.00	C
ATOM	1397	HA	LEU	X	289	43.645	94.113	125.046	1.00	0.00	H
ATOM	1398	CB	LEU	X	289	45.154	95.706	124.440	1.00	0.00	C
ATOM	1399	HB2	LEU	X	289	45.121	96.457	123.649	1.00	0.00	H
ATOM	1400	HB3	LEU	X	289	45.116	96.220	125.401	1.00	0.00	H
ATOM	1401	CG	LEU	X	289	46.554	94.917	124.306	1.00	0.00	C
ATOM	1402	HG	LEU	X	289	46.555	94.538	123.284	1.00	0.00	H
ATOM	1403	CD1	LEU	X	289	47.759	95.812	124.334	1.00	0.00	C
ATOM	1404	HD11	LEU	X	289	47.739	96.501	125.180	1.00	0.00	H
ATOM	1405	HD12	LEU	X	289	48.749	95.412	124.551	1.00	0.00	H
ATOM	1406	HD13	LEU	X	289	47.616	96.488	123.492	1.00	0.00	H
ATOM	1407	CD2	LEU	X	289	46.838	93.808	125.402	1.00	0.00	C
ATOM	1408	HD21	LEU	X	289	47.808	93.374	125.160	1.00	0.00	H
ATOM	1409	HD22	LEU	X	289	46.760	94.191	126.419	1.00	0.00	H
ATOM	1410	HD23	LEU	X	289	46.073	93.035	125.339	1.00	0.00	H
ATOM	1411	C	LEU	X	289	42.571	95.831	124.347	1.00	0.00	C
ATOM	1412	O	LEU	X	289	41.781	95.721	125.280	1.00	0.00	O
ATOM	1413	N	GLN	X	290	42.310	96.510	123.152	1.00	0.00	N
ATOM	1414	H	GLN	X	290	43.006	96.634	122.432	1.00	0.00	H
ATOM	1415	CA	GLN	X	290	41.188	97.421	123.188	1.00	0.00	C
ATOM	1416	HA	GLN	X	290	41.265	98.038	124.083	1.00	0.00	H
ATOM	1417	CB	GLN	X	290	41.117	98.235	121.919	1.00	0.00	C
ATOM	1418	HB2	GLN	X	290	42.132	98.594	121.743	1.00	0.00	H
ATOM	1419	HB3	GLN	X	290	40.825	97.668	121.035	1.00	0.00	H
ATOM	1420	CG	GLN	X	290	40.169	99.482	122.010	1.00	0.00	C
ATOM	1421	HG2	GLN	X	290	39.141	99.129	122.083	1.00	0.00	H
ATOM	1422	HG3	GLN	X	290	40.506	100.078	122.859	1.00	0.00	H
ATOM	1423	CD	GLN	X	290	40.145	100.373	120.832	1.00	0.00	C
ATOM	1424	OE1	GLN	X	290	41.084	100.510	120.065	1.00	0.00	O
ATOM	1425	NE2	GLN	X	290	39.042	101.000	120.510	1.00	0.00	N
ATOM	1426	HE21	GLN	X	290	39.077	101.608	119.704	1.00	0.00	H
ATOM	1427	HE22	GLN	X	290	38.243	100.918	121.121	1.00	0.00	H
ATOM	1428	C	GLN	X	290	39.841	96.747	123.369	1.00	0.00	C
ATOM	1429	O	GLN	X	290	38.928	97.258	124.100	1.00	0.00	O
ATOM	1430	N	GLN	X	291	39.674	95.510	122.830	1.00	0.00	N
ATOM	1431	H	GLN	X	291	40.421	95.044	122.335	1.00	0.00	H
ATOM	1432	CA	GLN	X	291	38.502	94.730	123.054	1.00	0.00	C
ATOM	1433	HA	GLN	X	291	37.656	95.342	122.744	1.00	0.00	H
ATOM	1434	CB	GLN	X	291	38.548	93.617	122.028	1.00	0.00	C
ATOM	1435	HB2	GLN	X	291	38.643	93.894	120.979	1.00	0.00	H
ATOM	1436	HB3	GLN	X	291	39.431	93.048	122.322	1.00	0.00	H
ATOM	1437	CG	GLN	X	291	37.264	92.647	122.175	1.00	0.00	C
ATOM	1438	HG2	GLN	X	291	37.354	91.736	121.583	1.00	0.00	H
ATOM	1439	HG3	GLN	X	291	37.272	92.255	123.194	1.00	0.00	H
ATOM	1440	CD	GLN	X	291	35.974	93.312	121.730	1.00	0.00	C
ATOM	1441	OE1	GLN	X	291	35.872	94.385	121.152	1.00	0.00	O
ATOM	1442	NE2	GLN	X	291	34.871	92.548	121.862	1.00	0.00	N
ATOM	1443	HE21	GLN	X	291	33.958	92.957	121.725	1.00	0.00	H
ATOM	1444	HE22	GLN	X	291	34.995	91.627	122.258	1.00	0.00	H
ATOM	1445	C	GLN	X	291	38.378	94.302	124.545	1.00	0.00	C
ATOM	1446	O	GLN	X	291	37.244	94.398	125.071	1.00	0.00	O
ATOM	1447	N	VAL	X	292	39.414	93.889	125.241	1.00	0.00	N
ATOM	1448	H	VAL	X	292	40.340	93.900	124.839	1.00	0.00	H
ATOM	1449	CA	VAL	X	292	39.373	93.539	126.687	1.00	0.00	C
ATOM	1450	HA	VAL	X	292	38.634	92.749	126.821	1.00	0.00	H
ATOM	1451	CB	VAL	X	292	40.700	93.016	127.139	1.00	0.00	C
ATOM	1452	HB	VAL	X	292	41.449	93.752	126.847	1.00	0.00	H
ATOM	1453	CG1	VAL	X	292	40.783	92.727	128.636	1.00	0.00	C
ATOM	1454	HG11	VAL	X	292	39.812	92.317	128.914	1.00	0.00	H
ATOM	1455	HG12	VAL	X	292	41.632	92.060	128.796	1.00	0.00	H
ATOM	1456	HG13	VAL	X	292	41.005	93.654	129.162	1.00	0.00	H
ATOM	1457	CG2	VAL	X	292	41.028	91.703	126.494	1.00	0.00	C
ATOM	1458	HG21	VAL	X	292	42.014	91.343	126.787	1.00	0.00	H
ATOM	1459	HG22	VAL	X	292	40.308	90.953	126.820	1.00	0.00	H
ATOM	1460	HG23	VAL	X	292	41.272	91.788	125.435	1.00	0.00	H
ATOM	1461	C	VAL	X	292	39.023	94.756	127.541	1.00	0.00	C
ATOM	1462	O	VAL	X	292	38.106	94.679	128.327	1.00	0.00	O
ATOM	1463	N	HIE	X	293	39.557	95.927	127.176	1.00	0.00	N
ATOM	1464	H	HIE	X	293	40.276	95.956	126.468	1.00	0.00	H
ATOM	1465	CA	HIE	X	293	39.260	97.196	127.933	1.00	0.00	C
ATOM	1466	HA	HIE	X	293	39.580	97.035	128.963	1.00	0.00	H
ATOM	1467	CB	HIE	X	293	39.988	98.326	127.339	1.00	0.00	C
ATOM	1468	HB2	HIE	X	293	39.830	98.299	126.260	1.00	0.00	H
ATOM	1469	HB3	HIE	X	293	39.640	99.255	127.787	1.00	0.00	H
ATOM	1470	CG	HIE	X	293	41.446	98.095	127.429	1.00	0.00	C
ATOM	1471	ND1	HIE	X	293	42.320	99.111	126.944	1.00	0.00	N
ATOM	1472	CE1	HIE	X	293	43.578	98.651	127.055	1.00	0.00	C
ATOM	1473	HE1	HIE	X	293	44.493	99.142	126.757	1.00	0.00	H
ATOM	1474	NE2	HIE	X	293	43.525	97.527	127.818	1.00	0.00	N

ATOM	1475	HE2	HIE	X	293	44.332	97.079	128.228	1.00	0.00	H
ATOM	1476	CD2	HIE	X	293	42.233	97.123	128.020	1.00	0.00	C
ATOM	1477	HD2	HIE	X	293	41.896	96.270	128.590	1.00	0.00	H
ATOM	1478	C	HIE	X	293	37.815	97.693	127.856	1.00	0.00	C
ATOM	1479	O	HIE	X	293	37.154	97.964	128.884	1.00	0.00	O
ATOM	1480	N	LEU	X	294	37.251	97.669	126.657	1.00	0.00	N
ATOM	1481	H	LEU	X	294	37.829	97.515	125.843	1.00	0.00	H
ATOM	1482	CA	LEU	X	294	35.817	97.942	126.343	1.00	0.00	C
ATOM	1483	HA	LEU	X	294	35.596	98.973	126.619	1.00	0.00	H
ATOM	1484	CB	LEU	X	294	35.692	97.801	124.828	1.00	0.00	C
ATOM	1485	HB2	LEU	X	294	36.431	98.395	124.292	1.00	0.00	H
ATOM	1486	HB3	LEU	X	294	35.899	96.781	124.504	1.00	0.00	H
ATOM	1487	CG	LEU	X	294	34.294	98.137	124.292	1.00	0.00	C
ATOM	1488	HG	LEU	X	294	33.573	97.442	124.722	1.00	0.00	H
ATOM	1489	CD1	LEU	X	294	33.810	99.502	124.714	1.00	0.00	C
ATOM	1490	HD11	LEU	X	294	33.663	99.497	125.795	1.00	0.00	H
ATOM	1491	HD12	LEU	X	294	34.593	100.213	124.448	1.00	0.00	H
ATOM	1492	HD13	LEU	X	294	32.885	99.832	124.241	1.00	0.00	H
ATOM	1493	CD2	LEU	X	294	34.163	97.982	122.783	1.00	0.00	C
ATOM	1494	HD21	LEU	X	294	34.123	96.914	122.573	1.00	0.00	H
ATOM	1495	HD22	LEU	X	294	33.235	98.399	122.385	1.00	0.00	H
ATOM	1496	HD23	LEU	X	294	34.957	98.493	122.239	1.00	0.00	H
ATOM	1497	C	LEU	X	294	34.777	97.064	127.159	1.00	0.00	C
ATOM	1498	O	LEU	X	294	33.900	97.588	127.854	1.00	0.00	O
ATOM	1499	N	LEU	X	295	34.935	95.759	127.062	1.00	0.00	N
ATOM	1500	H	LEU	X	295	35.694	95.383	126.512	1.00	0.00	H
ATOM	1501	CA	LEU	X	295	34.165	94.782	127.793	1.00	0.00	C
ATOM	1502	HA	LEU	X	295	33.122	95.012	127.576	1.00	0.00	H
ATOM	1503	CB	LEU	X	295	34.432	93.410	127.241	1.00	0.00	C
ATOM	1504	HB2	LEU	X	295	35.511	93.304	127.120	1.00	0.00	H
ATOM	1505	HB3	LEU	X	295	34.090	92.661	127.955	1.00	0.00	H
ATOM	1506	CG	LEU	X	295	33.534	93.180	126.054	1.00	0.00	C
ATOM	1507	HG	LEU	X	295	32.498	93.236	126.387	1.00	0.00	H
ATOM	1508	CD1	LEU	X	295	33.572	94.194	124.838	1.00	0.00	C
ATOM	1509	HD11	LEU	X	295	34.534	94.260	124.330	1.00	0.00	H
ATOM	1510	HD12	LEU	X	295	32.781	93.846	124.174	1.00	0.00	H
ATOM	1511	HD13	LEU	X	295	33.186	95.171	125.129	1.00	0.00	H
ATOM	1512	CD2	LEU	X	295	33.876	91.772	125.520	1.00	0.00	C
ATOM	1513	HD21	LEU	X	295	34.810	91.688	124.963	1.00	0.00	H
ATOM	1514	HD22	LEU	X	295	33.971	91.065	126.343	1.00	0.00	H
ATOM	1515	HD23	LEU	X	295	33.026	91.479	124.903	1.00	0.00	H
ATOM	1516	C	LEU	X	295	34.371	94.908	129.362	1.00	0.00	C
ATOM	1517	O	LEU	X	295	33.388	94.813	130.067	1.00	0.00	O
ATOM	1518	N	TRP	X	296	35.580	95.252	129.831	1.00	0.00	N
ATOM	1519	H	TRP	X	296	36.292	95.446	129.140	1.00	0.00	H
ATOM	1520	CA	TRP	X	296	35.824	95.429	131.233	1.00	0.00	C
ATOM	1521	HA	TRP	X	296	35.493	94.553	131.790	1.00	0.00	H
ATOM	1522	CB	TRP	X	296	37.306	95.560	131.641	1.00	0.00	C
ATOM	1523	HB2	TRP	X	296	37.955	94.694	131.503	1.00	0.00	H
ATOM	1524	HB3	TRP	X	296	37.766	96.314	131.003	1.00	0.00	H
ATOM	1525	CG	TRP	X	296	37.472	95.930	133.058	1.00	0.00	C
ATOM	1526	CD1	TRP	X	296	37.405	95.080	134.099	1.00	0.00	C
ATOM	1527	HD1	TRP	X	296	37.150	94.032	134.157	1.00	0.00	H
ATOM	1528	NE1	TRP	X	296	37.507	95.783	135.210	1.00	0.00	N
ATOM	1529	HE1	TRP	X	296	37.593	95.298	136.093	1.00	0.00	H
ATOM	1530	CE2	TRP	X	296	37.689	97.091	135.020	1.00	0.00	C
ATOM	1531	CZ2	TRP	X	296	37.844	98.229	135.936	1.00	0.00	C
ATOM	1532	HZ2	TRP	X	296	37.678	98.056	136.990	1.00	0.00	H
ATOM	1533	CH2	TRP	X	296	37.944	99.536	135.359	1.00	0.00	C
ATOM	1534	HH2	TRP	X	296	37.935	100.436	135.957	1.00	0.00	H
ATOM	1535	CZ3	TRP	X	296	38.118	99.644	133.962	1.00	0.00	C
ATOM	1536	HZ3	TRP	X	296	38.044	100.661	133.607	1.00	0.00	H
ATOM	1537	CE3	TRP	X	296	38.091	98.499	133.136	1.00	0.00	C
ATOM	1538	HE3	TRP	X	296	38.216	98.601	132.068	1.00	0.00	H
ATOM	1539	CD2	TRP	X	296	37.794	97.258	133.621	1.00	0.00	C
ATOM	1540	C	TRP	X	296	35.108	96.622	131.877	1.00	0.00	C
ATOM	1541	O	TRP	X	296	34.464	96.506	132.920	1.00	0.00	O
ATOM	1542	N	ALA	X	297	35.208	97.799	131.188	1.00	0.00	N
ATOM	1543	H	ALA	X	297	35.835	97.715	130.400	1.00	0.00	H
ATOM	1544	CA	ALA	X	297	34.672	99.071	131.638	1.00	0.00	C
ATOM	1545	HA	ALA	X	297	34.933	99.053	132.697	1.00	0.00	H
ATOM	1546	CB	ALA	X	297	35.418	100.158	130.861	1.00	0.00	C
ATOM	1547	HB1	ALA	X	297	35.247	101.175	131.218	1.00	0.00	H
ATOM	1548	HB2	ALA	X	297	36.474	99.955	131.032	1.00	0.00	H
ATOM	1549	HB3	ALA	X	297	35.167	99.938	129.824	1.00	0.00	H
ATOM	1550	C	ALA	X	297	33.184	99.245	131.431	1.00	0.00	C
ATOM	1551	O	ALA	X	297	32.525	99.832	132.301	1.00	0.00	O
ATOM	1552	N	THR	X	298	32.596	98.620	130.383	1.00	0.00	N
ATOM	1553	H	THR	X	298	33.165	98.143	129.699	1.00	0.00	H
ATOM	1554	CA	THR	X	298	31.142	98.640	130.136	1.00	0.00	C
ATOM	1555	HA	THR	X	298	30.758	99.631	130.379	1.00	0.00	H
ATOM	1556	CB	THR	X	298	30.786	98.324	128.690	1.00	0.00	C

ATOM	1557	HB	THR	X	298	29.717	98.128	128.624	1.00	0.00	H
ATOM	1558	CG2	THR	X	298	31.055	99.480	127.765	1.00	0.00	C
ATOM	1559	HG21	THR	X	298	30.322	100.260	127.966	1.00	0.00	H
ATOM	1560	HG22	THR	X	298	31.991	100.024	127.886	1.00	0.00	H
ATOM	1561	HG23	THR	X	298	30.903	99.211	126.721	1.00	0.00	H
ATOM	1562	OG1	THR	X	298	31.422	97.089	128.301	1.00	0.00	O
ATOM	1563	HG1	THR	X	298	32.368	97.237	128.222	1.00	0.00	H
ATOM	1564	C	THR	X	298	30.329	97.634	130.967	1.00	0.00	C
ATOM	1565	O	THR	X	298	29.115	97.699	130.950	1.00	0.00	O
ATOM	1566	N	GLY	X	299	30.986	96.753	131.743	1.00	0.00	N
ATOM	1567	H	GLY	X	299	31.994	96.810	131.744	1.00	0.00	H
ATOM	1568	CA	GLY	X	299	30.295	95.768	132.610	1.00	0.00	C
ATOM	1569	HA2	GLY	X	299	30.974	95.724	133.461	1.00	0.00	H
ATOM	1570	HA3	GLY	X	299	29.312	96.186	132.833	1.00	0.00	H
ATOM	1571	C	GLY	X	299	30.096	94.392	131.958	1.00	0.00	C
ATOM	1572	O	GLY	X	299	29.581	93.530	132.662	1.00	0.00	O
ATOM	1573	N	GLN	X	300	30.616	94.076	130.835	1.00	0.00	N
ATOM	1574	H	GLN	X	300	31.123	94.747	130.274	1.00	0.00	H
ATOM	1575	CA	GLN	X	300	30.263	92.891	130.095	1.00	0.00	C
ATOM	1576	HA	GLN	X	300	29.190	92.846	130.285	1.00	0.00	H
ATOM	1577	CB	GLN	X	300	30.583	93.372	128.667	1.00	0.00	C
ATOM	1578	HB2	GLN	X	300	30.139	94.349	128.486	1.00	0.00	H
ATOM	1579	HB3	GLN	X	300	31.644	93.544	128.484	1.00	0.00	H
ATOM	1580	CG	GLN	X	300	29.948	92.525	127.622	1.00	0.00	C
ATOM	1581	HG2	GLN	X	300	30.346	92.933	126.694	1.00	0.00	H
ATOM	1582	HG3	GLN	X	300	30.315	91.502	127.711	1.00	0.00	H
ATOM	1583	CD	GLN	X	300	28.386	92.527	127.663	1.00	0.00	C
ATOM	1584	OE1	GLN	X	300	27.695	91.564	128.092	1.00	0.00	O
ATOM	1585	NE2	GLN	X	300	27.790	93.670	127.273	1.00	0.00	N
ATOM	1586	HE21	GLN	X	300	26.782	93.663	127.323	1.00	0.00	H
ATOM	1587	HE22	GLN	X	300	28.363	94.478	127.077	1.00	0.00	H
ATOM	1588	C	GLN	X	300	30.926	91.569	130.329	1.00	0.00	C
ATOM	1589	O	GLN	X	300	30.351	90.506	130.574	1.00	0.00	O
ATOM	1590	N	ASP	X	301	32.227	91.539	130.444	1.00	0.00	N
ATOM	1591	H	ASP	X	301	32.698	92.434	130.416	1.00	0.00	H
ATOM	1592	CA	ASP	X	301	33.090	90.360	130.776	1.00	0.00	C
ATOM	1593	HA	ASP	X	301	32.549	89.905	131.607	1.00	0.00	H
ATOM	1594	CB	ASP	X	301	33.199	89.354	129.596	1.00	0.00	C
ATOM	1595	HB2	ASP	X	301	32.288	89.311	129.001	1.00	0.00	H
ATOM	1596	HB3	ASP	X	301	33.856	89.711	128.803	1.00	0.00	H
ATOM	1597	CG	ASP	X	301	33.498	87.864	129.928	1.00	0.00	C
ATOM	1598	OD1	ASP	X	301	33.739	87.517	131.037	1.00	0.00	O
ATOM	1599	OD2	ASP	X	301	33.667	87.122	128.978	1.00	0.00	O
ATOM	1600	C	ASP	X	301	34.465	90.798	131.399	1.00	0.00	C
ATOM	1601	O	ASP	X	301	34.703	91.994	131.656	1.00	0.00	O
ATOM	1602	N	PHE	X	302	35.225	89.812	131.873	1.00	0.00	N
ATOM	1603	H	PHE	X	302	34.870	88.868	131.885	1.00	0.00	H
ATOM	1604	CA	PHE	X	302	36.451	90.157	132.572	1.00	0.00	C
ATOM	1605	HA	PHE	X	302	36.861	89.169	132.784	1.00	0.00	H
ATOM	1606	CB	PHE	X	302	37.475	90.663	131.541	1.00	0.00	C
ATOM	1607	HB2	PHE	X	302	37.387	91.744	131.431	1.00	0.00	H
ATOM	1608	HB3	PHE	X	302	38.440	90.330	131.921	1.00	0.00	H
ATOM	1609	CG	PHE	X	302	37.407	90.030	130.121	1.00	0.00	C
ATOM	1610	CD1	PHE	X	302	37.689	88.668	129.905	1.00	0.00	C
ATOM	1611	HD1	PHE	X	302	37.984	88.058	130.745	1.00	0.00	H
ATOM	1612	CE1	PHE	X	302	37.566	88.099	128.596	1.00	0.00	C
ATOM	1613	HE1	PHE	X	302	37.705	87.039	128.447	1.00	0.00	H
ATOM	1614	CZ	PHE	X	302	37.297	88.951	127.454	1.00	0.00	C
ATOM	1615	HZ	PHE	X	302	37.371	88.549	126.454	1.00	0.00	H
ATOM	1616	CE2	PHE	X	302	37.114	90.342	127.696	1.00	0.00	C
ATOM	1617	HE2	PHE	X	302	37.014	91.050	126.886	1.00	0.00	H
ATOM	1618	CD2	PHE	X	302	37.165	90.826	128.992	1.00	0.00	C
ATOM	1619	HD2	PHE	X	302	37.024	91.873	129.217	1.00	0.00	H
ATOM	1620	C	PHE	X	302	36.350	90.943	133.906	1.00	0.00	C
ATOM	1621	O	PHE	X	302	37.279	91.659	134.255	1.00	0.00	O
ATOM	1622	N	GLN	X	303	35.185	90.837	134.557	1.00	0.00	N
ATOM	1623	H	GLN	X	303	34.557	90.185	134.110	1.00	0.00	H
ATOM	1624	CA	GLN	X	303	34.747	91.464	135.817	1.00	0.00	C
ATOM	1625	HA	GLN	X	303	34.990	92.517	135.949	1.00	0.00	H
ATOM	1626	CB	GLN	X	303	33.242	91.286	135.855	1.00	0.00	C
ATOM	1627	HB2	GLN	X	303	32.985	90.228	135.845	1.00	0.00	H
ATOM	1628	HB3	GLN	X	303	32.802	91.706	136.759	1.00	0.00	H
ATOM	1629	CG	GLN	X	303	32.441	91.879	134.614	1.00	0.00	C
ATOM	1630	HG2	GLN	X	303	32.749	91.409	133.681	1.00	0.00	H
ATOM	1631	HG3	GLN	X	303	31.354	91.817	134.648	1.00	0.00	H
ATOM	1632	CD	GLN	X	303	32.663	93.393	134.414	1.00	0.00	C
ATOM	1633	OE1	GLN	X	303	32.438	94.238	135.341	1.00	0.00	O
ATOM	1634	NE2	GLN	X	303	33.049	93.846	133.250	1.00	0.00	N
ATOM	1635	HE21	GLN	X	303	33.347	94.797	133.082	1.00	0.00	H
ATOM	1636	HE22	GLN	X	303	33.462	93.219	132.573	1.00	0.00	H
ATOM	1637	C	GLN	X	303	35.382	90.701	136.990	1.00	0.00	C
ATOM	1638	O	GLN	X	303	35.132	91.008	138.188	1.00	0.00	O

ATOM	1639	N	GLU	X	304	36.172	89.705	136.753	1.00	0.00	N
ATOM	1640	H	GLU	X	304	36.389	89.463	135.795	1.00	0.00	H
ATOM	1641	CA	GLU	X	304	37.240	89.382	137.761	1.00	0.00	C
ATOM	1642	HA	GLU	X	304	36.863	88.934	138.681	1.00	0.00	H
ATOM	1643	CB	GLU	X	304	38.195	88.376	137.045	1.00	0.00	C
ATOM	1644	HB2	GLU	X	304	37.634	87.463	136.847	1.00	0.00	H
ATOM	1645	HB3	GLU	X	304	38.446	88.730	136.045	1.00	0.00	H
ATOM	1646	CG	GLU	X	304	39.496	88.036	137.821	1.00	0.00	C
ATOM	1647	HG2	GLU	X	304	40.195	87.539	137.148	1.00	0.00	H
ATOM	1648	HG3	GLU	X	304	39.932	89.013	138.026	1.00	0.00	H
ATOM	1649	CD	GLU	X	304	39.436	87.198	139.092	1.00	0.00	C
ATOM	1650	OE1	GLU	X	304	40.448	86.802	139.694	1.00	0.00	O
ATOM	1651	OE2	GLU	X	304	38.274	87.133	139.635	1.00	0.00	O
ATOM	1652	C	GLU	X	304	37.962	90.647	138.079	1.00	0.00	C
ATOM	1653	O	GLU	X	304	37.950	91.131	139.198	1.00	0.00	O
ATOM	1654	N	PHE	X	305	38.688	91.302	137.130	1.00	0.00	N
ATOM	1655	H	PHE	X	305	38.728	90.785	136.263	1.00	0.00	H
ATOM	1656	CA	PHE	X	305	39.625	92.384	137.482	1.00	0.00	C
ATOM	1657	HA	PHE	X	305	40.419	91.955	138.093	1.00	0.00	H
ATOM	1658	CB	PHE	X	305	40.392	92.835	136.283	1.00	0.00	C
ATOM	1659	HB2	PHE	X	305	39.688	93.265	135.570	1.00	0.00	H
ATOM	1660	HB3	PHE	X	305	41.146	93.563	136.583	1.00	0.00	H
ATOM	1661	CG	PHE	X	305	41.156	91.772	135.521	1.00	0.00	C
ATOM	1662	CD1	PHE	X	305	42.123	90.956	136.209	1.00	0.00	C
ATOM	1663	HD1	PHE	X	305	42.433	91.169	137.221	1.00	0.00	H
ATOM	1664	CE1	PHE	X	305	42.882	89.980	135.528	1.00	0.00	C
ATOM	1665	HE1	PHE	X	305	43.786	89.551	135.932	1.00	0.00	H
ATOM	1666	CZ	PHE	X	305	42.548	89.667	134.256	1.00	0.00	C
ATOM	1667	HZ	PHE	X	305	43.084	88.887	133.736	1.00	0.00	H
ATOM	1668	CE2	PHE	X	305	41.496	90.389	133.608	1.00	0.00	C
ATOM	1669	HE2	PHE	X	305	41.226	90.032	132.626	1.00	0.00	H
ATOM	1670	CD2	PHE	X	305	40.914	91.490	134.184	1.00	0.00	C
ATOM	1671	HD2	PHE	X	305	40.107	92.004	133.683	1.00	0.00	H
ATOM	1672	C	PHE	X	305	38.983	93.633	138.161	1.00	0.00	C
ATOM	1673	O	PHE	X	305	38.041	94.355	137.706	1.00	0.00	O
ATOM	1674	N	LEU	X	306	39.585	94.103	139.222	1.00	0.00	N
ATOM	1675	H	LEU	X	306	40.475	93.706	139.483	1.00	0.00	H
ATOM	1676	CA	LEU	X	306	39.163	95.280	140.065	1.00	0.00	C
ATOM	1677	HA	LEU	X	306	38.084	95.253	140.210	1.00	0.00	H
ATOM	1678	CB	LEU	X	306	39.750	94.907	141.440	1.00	0.00	C
ATOM	1679	HB2	LEU	X	306	39.174	94.027	141.721	1.00	0.00	H
ATOM	1680	HB3	LEU	X	306	40.817	94.686	141.483	1.00	0.00	H
ATOM	1681	CG	LEU	X	306	39.724	96.037	142.505	1.00	0.00	C
ATOM	1682	HG	LEU	X	306	40.213	96.910	142.070	1.00	0.00	H
ATOM	1683	CD1	LEU	X	306	38.272	96.435	142.714	1.00	0.00	C
ATOM	1684	HD11	LEU	X	306	37.697	95.514	142.620	1.00	0.00	H
ATOM	1685	HD12	LEU	X	306	38.077	96.962	143.648	1.00	0.00	H
ATOM	1686	HD13	LEU	X	306	37.971	97.156	141.953	1.00	0.00	H
ATOM	1687	CD2	LEU	X	306	40.233	95.622	143.949	1.00	0.00	C
ATOM	1688	HD21	LEU	X	306	40.041	96.475	144.600	1.00	0.00	H
ATOM	1689	HD22	LEU	X	306	39.812	94.689	144.324	1.00	0.00	H
ATOM	1690	HD23	LEU	X	306	41.323	95.621	143.942	1.00	0.00	H
ATOM	1691	C	LEU	X	306	39.561	96.579	139.349	1.00	0.00	C
ATOM	1692	O	LEU	X	306	38.794	97.559	139.379	1.00	0.00	O
ATOM	1693	N	PHE	X	307	40.713	96.587	138.758	1.00	0.00	N
ATOM	1694	H	PHE	X	307	41.269	95.746	138.795	1.00	0.00	H
ATOM	1695	CA	PHE	X	307	41.146	97.671	137.831	1.00	0.00	C
ATOM	1696	HA	PHE	X	307	40.359	98.387	137.591	1.00	0.00	H
ATOM	1697	CB	PHE	X	307	42.170	98.660	138.577	1.00	0.00	C
ATOM	1698	HB2	PHE	X	307	42.985	97.987	138.840	1.00	0.00	H
ATOM	1699	HB3	PHE	X	307	42.424	99.390	137.808	1.00	0.00	H
ATOM	1700	CG	PHE	X	307	41.633	99.283	139.887	1.00	0.00	C
ATOM	1701	CD1	PHE	X	307	40.897	100.494	139.849	1.00	0.00	C
ATOM	1702	HD1	PHE	X	307	40.794	100.921	138.863	1.00	0.00	H
ATOM	1703	CE1	PHE	X	307	40.431	101.093	140.974	1.00	0.00	C
ATOM	1704	HE1	PHE	X	307	39.883	102.018	140.873	1.00	0.00	H
ATOM	1705	CZ	PHE	X	307	40.697	100.514	142.267	1.00	0.00	C
ATOM	1706	HZ	PHE	X	307	40.285	100.920	143.178	1.00	0.00	H
ATOM	1707	CE2	PHE	X	307	41.543	99.406	142.315	1.00	0.00	C
ATOM	1708	HE2	PHE	X	307	42.007	99.063	143.228	1.00	0.00	H
ATOM	1709	CD2	PHE	X	307	42.054	98.873	141.139	1.00	0.00	C
ATOM	1710	HD2	PHE	X	307	42.760	98.056	141.116	1.00	0.00	H
ATOM	1711	C	PHE	X	307	41.886	97.102	136.640	1.00	0.00	C
ATOM	1712	O	PHE	X	307	42.709	96.184	136.802	1.00	0.00	O
ATOM	1713	N	VAL	X	308	41.676	97.634	135.452	1.00	0.00	N
ATOM	1714	H	VAL	X	308	40.947	98.332	135.467	1.00	0.00	H
ATOM	1715	CA	VAL	X	308	42.439	97.447	134.198	1.00	0.00	C
ATOM	1716	HA	VAL	X	308	43.151	96.631	134.332	1.00	0.00	H
ATOM	1717	CB	VAL	X	308	41.419	97.034	133.071	1.00	0.00	C
ATOM	1718	HB	VAL	X	308	40.579	97.727	133.147	1.00	0.00	H
ATOM	1719	CG1	VAL	X	308	41.852	97.047	131.519	1.00	0.00	C
ATOM	1720	HG11	VAL	X	308	42.222	98.066	131.396	1.00	0.00	H

ATOM	1721	HG12	VAL	X	308	42.633	96.301	131.365	1.00	0.00	H
ATOM	1722	HG13	VAL	X	308	40.951	96.924	130.919	1.00	0.00	H
ATOM	1723	CG2	VAL	X	308	40.912	95.586	133.305	1.00	0.00	C
ATOM	1724	HG21	VAL	X	308	41.746	94.911	133.114	1.00	0.00	H
ATOM	1725	HG22	VAL	X	308	40.570	95.485	134.334	1.00	0.00	H
ATOM	1726	HG23	VAL	X	308	40.121	95.411	132.574	1.00	0.00	H
ATOM	1727	C	VAL	X	308	43.194	98.790	133.810	1.00	0.00	C
ATOM	1728	O	VAL	X	308	42.568	99.864	133.724	1.00	0.00	O
ATOM	1729	N	PHE	X	309	44.552	98.867	133.542	1.00	0.00	N
ATOM	1730	H	PHE	X	309	45.116	98.043	133.691	1.00	0.00	H
ATOM	1731	CA	PHE	X	309	45.352	100.099	133.263	1.00	0.00	C
ATOM	1732	HA	PHE	X	309	44.678	100.955	133.310	1.00	0.00	H
ATOM	1733	CB	PHE	X	309	46.303	100.293	134.363	1.00	0.00	C
ATOM	1734	HB2	PHE	X	309	46.888	99.375	134.409	1.00	0.00	H
ATOM	1735	HB3	PHE	X	309	46.992	101.125	134.213	1.00	0.00	H
ATOM	1736	CG	PHE	X	309	45.737	100.496	135.718	1.00	0.00	C
ATOM	1737	CD1	PHE	X	309	45.207	101.762	136.052	1.00	0.00	C
ATOM	1738	HD1	PHE	X	309	45.176	102.509	135.273	1.00	0.00	H
ATOM	1739	CE1	PHE	X	309	44.785	102.054	137.342	1.00	0.00	C
ATOM	1740	HE1	PHE	X	309	44.184	102.942	137.458	1.00	0.00	H
ATOM	1741	CZ	PHE	X	309	44.964	101.076	138.357	1.00	0.00	C
ATOM	1742	HZ	PHE	X	309	44.525	101.219	139.334	1.00	0.00	H
ATOM	1743	CE2	PHE	X	309	45.452	99.801	138.050	1.00	0.00	C
ATOM	1744	HE2	PHE	X	309	45.393	99.059	138.833	1.00	0.00	H
ATOM	1745	CD2	PHE	X	309	45.894	99.508	136.733	1.00	0.00	C
ATOM	1746	HD2	PHE	X	309	46.239	98.531	136.432	1.00	0.00	H
ATOM	1747	C	PHE	X	309	45.950	99.939	131.790	1.00	0.00	C
ATOM	1748	O	PHE	X	309	46.785	99.055	131.586	1.00	0.00	O
ATOM	1749	N	PRO	X	310	45.437	100.720	130.797	1.00	0.00	N
ATOM	1750	CD	PRO	X	310	44.057	101.282	130.820	1.00	0.00	C
ATOM	1751	HD2	PRO	X	310	43.946	102.299	131.196	1.00	0.00	H
ATOM	1752	HD3	PRO	X	310	43.340	100.638	131.328	1.00	0.00	H
ATOM	1753	CG	PRO	X	310	43.614	101.222	129.353	1.00	0.00	C
ATOM	1754	HG2	PRO	X	310	42.810	101.942	129.198	1.00	0.00	H
ATOM	1755	HG3	PRO	X	310	43.284	100.208	129.128	1.00	0.00	H
ATOM	1756	CB	PRO	X	310	44.904	101.561	128.560	1.00	0.00	C
ATOM	1757	HB2	PRO	X	310	45.140	102.623	128.482	1.00	0.00	H
ATOM	1758	HB3	PRO	X	310	44.924	101.233	127.520	1.00	0.00	H
ATOM	1759	CA	PRO	X	310	46.017	100.886	129.418	1.00	0.00	C
ATOM	1760	HA	PRO	X	310	46.122	99.876	129.024	1.00	0.00	H
ATOM	1761	C	PRO	X	310	47.318	101.683	129.469	1.00	0.00	C
ATOM	1762	O	PRO	X	310	47.312	102.815	129.981	1.00	0.00	O
ATOM	1763	N	PHE	X	311	48.328	101.214	128.720	1.00	0.00	N
ATOM	1764	H	PHE	X	311	48.323	100.232	128.479	1.00	0.00	H
ATOM	1765	CA	PHE	X	311	49.642	101.857	128.476	1.00	0.00	C
ATOM	1766	HA	PHE	X	311	49.613	102.935	128.634	1.00	0.00	H
ATOM	1767	CB	PHE	X	311	50.579	101.188	129.491	1.00	0.00	C
ATOM	1768	HB2	PHE	X	311	50.372	100.119	129.433	1.00	0.00	H
ATOM	1769	HB3	PHE	X	311	51.604	101.327	129.150	1.00	0.00	H
ATOM	1770	CG	PHE	X	311	50.403	101.637	130.931	1.00	0.00	C
ATOM	1771	CD1	PHE	X	311	50.854	102.959	131.310	1.00	0.00	C
ATOM	1772	HD1	PHE	X	311	51.297	103.580	130.547	1.00	0.00	H
ATOM	1773	CE1	PHE	X	311	50.553	103.450	132.583	1.00	0.00	C
ATOM	1774	HE1	PHE	X	311	50.750	104.484	132.828	1.00	0.00	H
ATOM	1775	CZ	PHE	X	311	49.892	102.659	133.532	1.00	0.00	C
ATOM	1776	HZ	PHE	X	311	49.595	102.943	134.531	1.00	0.00	H
ATOM	1777	CE2	PHE	X	311	49.600	101.301	133.203	1.00	0.00	C
ATOM	1778	HE2	PHE	X	311	49.154	100.648	133.939	1.00	0.00	H
ATOM	1779	CD2	PHE	X	311	49.901	100.804	131.933	1.00	0.00	C
ATOM	1780	HD2	PHE	X	311	49.625	99.772	131.774	1.00	0.00	H
ATOM	1781	C	PHE	X	311	50.193	101.708	127.098	1.00	0.00	C
ATOM	1782	O	PHE	X	311	50.478	100.526	126.727	1.00	0.00	O
ATOM	1783	N	SER	X	312	50.549	102.816	126.521	1.00	0.00	N
ATOM	1784	H	SER	X	312	50.168	103.674	126.894	1.00	0.00	H
ATOM	1785	CA	SER	X	312	51.446	102.781	125.361	1.00	0.00	C
ATOM	1786	HA	SER	X	312	51.435	101.904	124.715	1.00	0.00	H
ATOM	1787	CB	SER	X	312	51.193	104.064	124.566	1.00	0.00	C
ATOM	1788	HB2	SER	X	312	50.207	103.978	124.108	1.00	0.00	H
ATOM	1789	HB3	SER	X	312	51.256	104.950	125.198	1.00	0.00	H
ATOM	1790	OG	SER	X	312	52.182	104.096	123.480	1.00	0.00	O
ATOM	1791	HG	SER	X	312	51.712	104.612	122.822	1.00	0.00	H
ATOM	1792	C	SER	X	312	52.936	102.814	125.914	1.00	0.00	C
ATOM	1793	O	SER	X	312	53.391	103.872	126.442	1.00	0.00	O
ATOM	1794	N	CYS	X	313	53.649	101.734	125.678	1.00	0.00	N
ATOM	1795	H	CYS	X	313	53.245	100.843	125.423	1.00	0.00	H
ATOM	1796	CA	CYS	X	313	55.093	101.733	125.950	1.00	0.00	C
ATOM	1797	HA	CYS	X	313	55.191	101.870	127.027	1.00	0.00	H
ATOM	1798	CB	CYS	X	313	55.574	100.366	125.537	1.00	0.00	C
ATOM	1799	HB2	CYS	X	313	55.256	100.073	124.537	1.00	0.00	H
ATOM	1800	HB3	CYS	X	313	56.650	100.307	125.374	1.00	0.00	H
ATOM	1801	SG	CYS	X	313	54.978	99.191	126.779	1.00	0.00	S
ATOM	1802	HG	CYS	X	313	53.814	99.040	126.141	1.00	0.00	H

ATOM	1803	C	CYS	X	313	55.861	102.798	125.147	1.00	0.00	C
ATOM	1804	O	CYS	X	313	56.939	103.284	125.565	1.00	0.00	O
ATOM	1805	N	ARG	X	314	55.216	103.308	124.085	1.00	0.00	N
ATOM	1806	H	ARG	X	314	54.390	102.838	123.740	1.00	0.00	H
ATOM	1807	CA	ARG	X	314	55.797	104.341	123.220	1.00	0.00	C
ATOM	1808	HA	ARG	X	314	56.849	104.088	123.083	1.00	0.00	H
ATOM	1809	CB	ARG	X	314	55.196	104.368	121.857	1.00	0.00	C
ATOM	1810	HB2	ARG	X	314	55.080	103.326	121.560	1.00	0.00	H
ATOM	1811	HB3	ARG	X	314	54.187	104.780	121.870	1.00	0.00	H
ATOM	1812	CG	ARG	X	314	55.924	105.130	120.753	1.00	0.00	C
ATOM	1813	HG2	ARG	X	314	55.513	106.139	120.788	1.00	0.00	H
ATOM	1814	HG3	ARG	X	314	56.985	105.082	120.993	1.00	0.00	H
ATOM	1815	CD	ARG	X	314	55.690	104.649	119.276	1.00	0.00	C
ATOM	1816	HD2	ARG	X	314	54.618	104.671	119.090	1.00	0.00	H
ATOM	1817	HD3	ARG	X	314	56.088	105.290	118.488	1.00	0.00	H
ATOM	1818	NE	ARG	X	314	56.177	103.294	119.117	1.00	0.00	N
ATOM	1819	HE	ARG	X	314	56.992	103.057	119.663	1.00	0.00	H
ATOM	1820	CZ	ARG	X	314	55.455	102.209	118.788	1.00	0.00	C
ATOM	1821	NH1	ARG	X	314	54.275	102.270	118.226	1.00	0.00	N
ATOM	1822	HH11	ARG	X	314	53.926	103.149	117.873	1.00	0.00	H
ATOM	1823	HH12	ARG	X	314	53.750	101.411	118.144	1.00	0.00	H
ATOM	1824	NH2	ARG	X	314	55.969	101.068	119.061	1.00	0.00	N
ATOM	1825	HH21	ARG	X	314	56.940	101.008	119.334	1.00	0.00	H
ATOM	1826	HH22	ARG	X	314	55.448	100.270	118.728	1.00	0.00	H
ATOM	1827	C	ARG	X	314	55.655	105.666	123.918	1.00	0.00	C
ATOM	1828	O	ARG	X	314	56.697	106.323	123.887	1.00	0.00	O
ATOM	1829	N	GLN	X	315	54.590	106.006	124.604	1.00	0.00	N
ATOM	1830	H	GLN	X	315	53.926	105.262	124.766	1.00	0.00	H
ATOM	1831	CA	GLN	X	315	54.378	107.273	125.348	1.00	0.00	C
ATOM	1832	HA	GLN	X	315	54.670	108.066	124.660	1.00	0.00	H
ATOM	1833	CB	GLN	X	315	52.871	107.538	125.586	1.00	0.00	C
ATOM	1834	HB2	GLN	X	315	52.521	106.645	126.103	1.00	0.00	H
ATOM	1835	HB3	GLN	X	315	52.718	108.342	126.306	1.00	0.00	H
ATOM	1836	CG	GLN	X	315	51.919	107.651	124.343	1.00	0.00	C
ATOM	1837	HG2	GLN	X	315	52.114	106.784	123.712	1.00	0.00	H
ATOM	1838	HG3	GLN	X	315	50.880	107.667	124.670	1.00	0.00	H
ATOM	1839	CD	GLN	X	315	52.279	108.887	123.512	1.00	0.00	C
ATOM	1840	OE1	GLN	X	315	53.155	109.667	123.842	1.00	0.00	O
ATOM	1841	NE2	GLN	X	315	51.587	109.109	122.447	1.00	0.00	N
ATOM	1842	HE21	GLN	X	315	51.738	109.887	121.820	1.00	0.00	H
ATOM	1843	HE22	GLN	X	315	50.893	108.434	122.160	1.00	0.00	H
ATOM	1844	C	GLN	X	315	55.298	107.366	126.555	1.00	0.00	C
ATOM	1845	O	GLN	X	315	55.917	108.415	126.825	1.00	0.00	O
ATOM	1846	N	LEU	X	316	55.539	106.227	127.200	1.00	0.00	N
ATOM	1847	H	LEU	X	316	55.092	105.356	126.952	1.00	0.00	H
ATOM	1848	CA	LEU	X	316	56.577	106.088	128.190	1.00	0.00	C
ATOM	1849	HA	LEU	X	316	56.604	106.991	128.801	1.00	0.00	H
ATOM	1850	CB	LEU	X	316	56.262	104.811	129.085	1.00	0.00	C
ATOM	1851	HB2	LEU	X	316	56.335	103.872	128.539	1.00	0.00	H
ATOM	1852	HB3	LEU	X	316	57.022	104.791	129.867	1.00	0.00	H
ATOM	1853	CG	LEU	X	316	54.882	104.693	129.775	1.00	0.00	C
ATOM	1854	HG	LEU	X	316	54.116	104.444	129.040	1.00	0.00	H
ATOM	1855	CD1	LEU	X	316	54.892	103.637	130.892	1.00	0.00	C
ATOM	1856	HD11	LEU	X	316	55.560	103.838	131.730	1.00	0.00	H
ATOM	1857	HD12	LEU	X	316	53.884	103.521	131.288	1.00	0.00	H
ATOM	1858	HD13	LEU	X	316	55.254	102.691	130.489	1.00	0.00	H
ATOM	1859	CD2	LEU	X	316	54.594	106.074	130.421	1.00	0.00	C
ATOM	1860	HD21	LEU	X	316	55.554	106.349	130.856	1.00	0.00	H
ATOM	1861	HD22	LEU	X	316	54.355	106.881	129.730	1.00	0.00	H
ATOM	1862	HD23	LEU	X	316	53.870	106.000	131.234	1.00	0.00	H
ATOM	1863	C	LEU	X	316	58.049	105.996	127.605	1.00	0.00	C
ATOM	1864	O	LEU	X	316	59.019	106.191	128.342	1.00	0.00	O
ATOM	1865	N	GLN	X	317	58.223	105.628	126.361	1.00	0.00	N
ATOM	1866	H	GLN	X	317	57.504	105.392	125.693	1.00	0.00	H
ATOM	1867	CA	GLN	X	317	59.571	105.841	125.735	1.00	0.00	C
ATOM	1868	HA	GLN	X	317	60.320	105.483	126.443	1.00	0.00	H
ATOM	1869	CB	GLN	X	317	59.643	104.940	124.444	1.00	0.00	C
ATOM	1870	HB2	GLN	X	317	59.584	103.855	124.525	1.00	0.00	H
ATOM	1871	HB3	GLN	X	317	58.822	105.233	123.789	1.00	0.00	H
ATOM	1872	CG	GLN	X	317	61.009	105.031	123.623	1.00	0.00	C
ATOM	1873	HG2	GLN	X	317	60.916	104.639	122.611	1.00	0.00	H
ATOM	1874	HG3	GLN	X	317	61.140	106.094	123.411	1.00	0.00	H
ATOM	1875	CD	GLN	X	317	62.246	104.505	124.379	1.00	0.00	C
ATOM	1876	OE1	GLN	X	317	62.606	104.976	125.445	1.00	0.00	O
ATOM	1877	NE2	GLN	X	317	62.901	103.501	123.845	1.00	0.00	N
ATOM	1878	HE21	GLN	X	317	63.732	103.129	124.280	1.00	0.00	H
ATOM	1879	HE22	GLN	X	317	62.529	103.018	123.040	1.00	0.00	H
ATOM	1880	C	GLN	X	317	59.785	107.317	125.419	1.00	0.00	C
ATOM	1881	O	GLN	X	317	60.865	107.848	125.362	1.00	0.00	O
ATOM	1882	N	CYS	X	318	58.718	108.104	125.250	1.00	0.00	N
ATOM	1883	H	CYS	X	318	57.806	107.671	125.239	1.00	0.00	H
ATOM	1884	CA	CYS	X	318	58.830	109.511	125.035	1.00	0.00	C

ATOM	1885	HA	CYS	X	318	59.767	109.713	124.514	1.00	0.00	H
ATOM	1886	CB	CYS	X	318	57.669	109.978	124.129	1.00	0.00	C
ATOM	1887	HB2	CYS	X	318	56.694	109.918	124.612	1.00	0.00	H
ATOM	1888	HB3	CYS	X	318	57.761	111.025	123.840	1.00	0.00	H
ATOM	1889	SG	CYS	X	318	57.626	109.120	122.530	1.00	0.00	S
ATOM	1890	HG	CYS	X	318	56.992	108.024	122.953	1.00	0.00	H
ATOM	1891	C	CYS	X	318	58.868	110.291	126.326	1.00	0.00	C
ATOM	1892	O	CYS	X	318	58.860	111.527	126.275	1.00	0.00	O
ATOM	1893	N	VAL	X	319	59.004	109.692	127.515	1.00	0.00	N
ATOM	1894	H	VAL	X	319	59.224	108.711	127.421	1.00	0.00	H
ATOM	1895	CA	VAL	X	319	59.204	110.289	128.850	1.00	0.00	C
ATOM	1896	HA	VAL	X	319	58.618	111.205	128.784	1.00	0.00	H
ATOM	1897	CB	VAL	X	319	58.619	109.503	130.059	1.00	0.00	C
ATOM	1898	HB	VAL	X	319	58.688	108.430	129.883	1.00	0.00	H
ATOM	1899	CG1	VAL	X	319	59.327	109.813	131.394	1.00	0.00	C
ATOM	1900	HG11	VAL	X	319	59.166	110.869	131.612	1.00	0.00	H
ATOM	1901	HG12	VAL	X	319	59.023	109.169	132.219	1.00	0.00	H
ATOM	1902	HG13	VAL	X	319	60.371	109.529	131.258	1.00	0.00	H
ATOM	1903	CG2	VAL	X	319	57.120	109.693	130.202	1.00	0.00	C
ATOM	1904	HG21	VAL	X	319	56.780	109.037	131.004	1.00	0.00	H
ATOM	1905	HG22	VAL	X	319	56.832	110.707	130.474	1.00	0.00	H
ATOM	1906	HG23	VAL	X	319	56.748	109.341	129.240	1.00	0.00	H
ATOM	1907	C	VAL	X	319	60.709	110.728	129.084	1.00	0.00	C
ATOM	1908	O	VAL	X	319	61.606	109.988	128.758	1.00	0.00	O
ATOM	1909	N	ALA	X	320	61.016	111.919	129.621	1.00	0.00	N
ATOM	1910	H	ALA	X	320	60.290	112.616	129.711	1.00	0.00	H
ATOM	1911	CA	ALA	X	320	62.383	112.378	129.820	1.00	0.00	C
ATOM	1912	HA	ALA	X	320	62.985	111.666	129.255	1.00	0.00	H
ATOM	1913	CB	ALA	X	320	62.646	113.681	129.026	1.00	0.00	C
ATOM	1914	HB1	ALA	X	320	62.253	114.419	129.725	1.00	0.00	H
ATOM	1915	HB2	ALA	X	320	63.699	113.607	128.751	1.00	0.00	H
ATOM	1916	HB3	ALA	X	320	61.993	113.747	128.157	1.00	0.00	H
ATOM	1917	C	ALA	X	320	62.881	112.383	131.297	1.00	0.00	C
ATOM	1918	O	ALA	X	320	63.899	113.046	131.567	1.00	0.00	O
ATOM	1919	N	ARG	X	321	62.148	111.780	132.301	1.00	0.00	N
ATOM	1920	H	ARG	X	321	61.306	111.266	132.091	1.00	0.00	H
ATOM	1921	CA	ARG	X	321	62.670	111.638	133.747	1.00	0.00	C
ATOM	1922	HA	ARG	X	321	63.756	111.596	133.670	1.00	0.00	H
ATOM	1923	CB	ARG	X	321	62.222	112.790	134.674	1.00	0.00	C
ATOM	1924	HB2	ARG	X	321	61.136	112.693	134.644	1.00	0.00	H
ATOM	1925	HB3	ARG	X	321	62.532	112.511	135.681	1.00	0.00	H
ATOM	1926	CG	ARG	X	321	62.710	114.141	134.282	1.00	0.00	C
ATOM	1927	HG2	ARG	X	321	62.422	114.355	133.254	1.00	0.00	H
ATOM	1928	HG3	ARG	X	321	62.335	114.855	135.018	1.00	0.00	H
ATOM	1929	CD	ARG	X	321	64.196	114.224	134.416	1.00	0.00	C
ATOM	1930	HD2	ARG	X	321	64.609	114.039	135.408	1.00	0.00	H
ATOM	1931	HD3	ARG	X	321	64.651	113.649	133.610	1.00	0.00	H
ATOM	1932	NE	ARG	X	321	64.625	115.581	134.185	1.00	0.00	N
ATOM	1933	HE	ARG	X	321	64.851	116.053	135.050	1.00	0.00	H
ATOM	1934	CZ	ARG	X	321	64.706	116.275	133.058	1.00	0.00	C
ATOM	1935	NH1	ARG	X	321	64.630	115.682	131.819	1.00	0.00	N
ATOM	1936	HH11	ARG	X	321	64.471	114.693	131.687	1.00	0.00	H
ATOM	1937	HH12	ARG	X	321	65.074	116.221	131.089	1.00	0.00	H
ATOM	1938	NH2	ARG	X	321	64.936	117.533	133.023	1.00	0.00	N
ATOM	1939	HH21	ARG	X	321	64.881	118.059	133.884	1.00	0.00	H
ATOM	1940	HH22	ARG	X	321	64.938	117.866	132.070	1.00	0.00	H
ATOM	1941	C	ARG	X	321	62.316	110.290	134.374	1.00	0.00	C
ATOM	1942	O	ARG	X	321	61.367	109.704	133.920	1.00	0.00	O
ATOM	1943	N	PRO	X	322	63.157	109.787	135.271	1.00	0.00	N
ATOM	1944	CD	PRO	X	322	64.386	110.391	135.747	1.00	0.00	C
ATOM	1945	HD2	PRO	X	322	64.306	111.475	135.683	1.00	0.00	H
ATOM	1946	HD3	PRO	X	322	65.144	110.084	135.026	1.00	0.00	H
ATOM	1947	CG	PRO	X	322	64.566	109.849	137.168	1.00	0.00	C
ATOM	1948	HG2	PRO	X	322	64.002	110.474	137.859	1.00	0.00	H
ATOM	1949	HG3	PRO	X	322	65.580	109.925	137.564	1.00	0.00	H
ATOM	1950	CB	PRO	X	322	64.031	108.432	137.181	1.00	0.00	C
ATOM	1951	HB2	PRO	X	322	63.676	108.181	138.180	1.00	0.00	H
ATOM	1952	HB3	PRO	X	322	64.851	107.765	136.915	1.00	0.00	H
ATOM	1953	CA	PRO	X	322	62.900	108.599	136.116	1.00	0.00	C
ATOM	1954	HA	PRO	X	322	62.930	107.717	135.477	1.00	0.00	H
ATOM	1955	C	PRO	X	322	61.506	108.744	136.763	1.00	0.00	C
ATOM	1956	O	PRO	X	322	61.049	109.801	137.278	1.00	0.00	O
ATOM	1957	N	LEU	X	323	60.770	107.663	136.709	1.00	0.00	N
ATOM	1958	H	LEU	X	323	61.184	106.806	136.371	1.00	0.00	H
ATOM	1959	CA	LEU	X	323	59.325	107.570	137.009	1.00	0.00	C
ATOM	1960	HA	LEU	X	323	58.967	108.559	137.295	1.00	0.00	H
ATOM	1961	CB	LEU	X	323	58.795	107.177	135.684	1.00	0.00	C
ATOM	1962	HB2	LEU	X	323	59.339	107.768	134.949	1.00	0.00	H
ATOM	1963	HB3	LEU	X	323	59.168	106.159	135.560	1.00	0.00	H
ATOM	1964	CG	LEU	X	323	57.328	107.202	135.497	1.00	0.00	C
ATOM	1965	HG	LEU	X	323	56.766	106.864	136.367	1.00	0.00	H
ATOM	1966	CD1	LEU	X	323	56.864	108.699	135.314	1.00	0.00	C

ATOM	1967	HD11	LEU	X	323	56.848	109.173	136.296	1.00	0.00	H
ATOM	1968	HD12	LEU	X	323	57.510	109.240	134.621	1.00	0.00	H
ATOM	1969	HD13	LEU	X	323	55.828	108.626	134.984	1.00	0.00	H
ATOM	1970	CD2	LEU	X	323	56.942	106.458	134.248	1.00	0.00	C
ATOM	1971	HD21	LEU	X	323	57.165	107.138	133.426	1.00	0.00	H
ATOM	1972	HD22	LEU	X	323	57.484	105.512	134.218	1.00	0.00	H
ATOM	1973	HD23	LEU	X	323	55.870	106.261	134.275	1.00	0.00	H
ATOM	1974	C	LEU	X	323	59.020	106.581	138.086	1.00	0.00	C
ATOM	1975	O	LEU	X	323	59.608	105.486	138.128	1.00	0.00	O
ATOM	1976	N	SER	X	324	58.043	106.873	138.965	1.00	0.00	N
ATOM	1977	H	SER	X	324	57.467	107.686	138.794	1.00	0.00	H
ATOM	1978	CA	SER	X	324	57.568	105.953	139.990	1.00	0.00	C
ATOM	1979	HA	SER	X	324	58.326	105.196	140.192	1.00	0.00	H
ATOM	1980	CB	SER	X	324	57.303	106.704	141.342	1.00	0.00	C
ATOM	1981	HB2	SER	X	324	56.862	106.056	142.099	1.00	0.00	H
ATOM	1982	HB3	SER	X	324	58.215	107.206	141.667	1.00	0.00	H
ATOM	1983	OG	SER	X	324	56.364	107.681	141.136	1.00	0.00	O
ATOM	1984	HG	SER	X	324	56.450	108.252	141.903	1.00	0.00	H
ATOM	1985	C	SER	X	324	56.166	105.348	139.529	1.00	0.00	C
ATOM	1986	O	SER	X	324	55.544	105.741	138.501	1.00	0.00	O
ATOM	1987	N	VAL	X	325	55.657	104.330	140.209	1.00	0.00	N
ATOM	1988	H	VAL	X	325	56.187	103.966	140.987	1.00	0.00	H
ATOM	1989	CA	VAL	X	325	54.209	103.862	140.190	1.00	0.00	C
ATOM	1990	HA	VAL	X	325	54.070	103.646	139.131	1.00	0.00	H
ATOM	1991	CB	VAL	X	325	53.997	102.588	141.090	1.00	0.00	C
ATOM	1992	HB	VAL	X	325	54.199	102.822	142.136	1.00	0.00	H
ATOM	1993	CG1	VAL	X	325	52.620	102.012	140.901	1.00	0.00	C
ATOM	1994	HG11	VAL	X	325	52.450	101.603	139.905	1.00	0.00	H
ATOM	1995	HG12	VAL	X	325	52.606	101.272	141.702	1.00	0.00	H
ATOM	1996	HG13	VAL	X	325	51.839	102.758	141.049	1.00	0.00	H
ATOM	1997	CG2	VAL	X	325	55.000	101.403	140.770	1.00	0.00	C
ATOM	1998	HG21	VAL	X	325	54.892	100.873	139.824	1.00	0.00	H
ATOM	1999	HG22	VAL	X	325	56.009	101.805	140.859	1.00	0.00	H
ATOM	2000	HG23	VAL	X	325	54.898	100.649	141.551	1.00	0.00	H
ATOM	2001	C	VAL	X	325	53.224	104.972	140.547	1.00	0.00	C
ATOM	2002	O	VAL	X	325	52.304	105.180	139.806	1.00	0.00	O
ATOM	2003	N	MET	X	326	53.557	105.947	141.394	1.00	0.00	N
ATOM	2004	H	MET	X	326	54.479	105.965	141.808	1.00	0.00	H
ATOM	2005	CA	MET	X	326	52.644	107.040	141.693	1.00	0.00	C
ATOM	2006	HA	MET	X	326	51.641	106.655	141.883	1.00	0.00	H
ATOM	2007	CB	MET	X	326	53.196	107.697	142.987	1.00	0.00	C
ATOM	2008	HB2	MET	X	326	53.165	107.066	143.876	1.00	0.00	H
ATOM	2009	HB3	MET	X	326	54.251	107.910	142.815	1.00	0.00	H
ATOM	2010	CG	MET	X	326	52.497	109.028	143.367	1.00	0.00	C
ATOM	2011	HG2	MET	X	326	52.984	109.560	144.184	1.00	0.00	H
ATOM	2012	HG3	MET	X	326	52.544	109.700	142.509	1.00	0.00	H
ATOM	2013	SD	MET	X	326	50.799	108.728	143.868	1.00	0.00	S
ATOM	2014	CE	MET	X	326	50.905	108.225	145.565	1.00	0.00	C
ATOM	2015	HE1	MET	X	326	51.538	107.341	145.654	1.00	0.00	H
ATOM	2016	HE2	MET	X	326	51.234	109.008	146.246	1.00	0.00	H
ATOM	2017	HE3	MET	X	326	49.876	108.066	145.887	1.00	0.00	H
ATOM	2018	C	MET	X	326	52.382	108.012	140.540	1.00	0.00	C
ATOM	2019	O	MET	X	326	51.275	108.523	140.398	1.00	0.00	O
ATOM	2020	N	THR	X	327	53.417	108.217	139.710	1.00	0.00	N
ATOM	2021	H	THR	X	327	54.281	107.702	139.802	1.00	0.00	H
ATOM	2022	CA	THR	X	327	53.350	109.063	138.508	1.00	0.00	C
ATOM	2023	HA	THR	X	327	52.660	109.865	138.767	1.00	0.00	H
ATOM	2024	CB	THR	X	327	54.644	109.828	138.120	1.00	0.00	C
ATOM	2025	HB	THR	X	327	55.331	109.077	137.727	1.00	0.00	H
ATOM	2026	CG2	THR	X	327	54.337	110.945	137.086	1.00	0.00	C
ATOM	2027	HG21	THR	X	327	54.305	110.573	136.063	1.00	0.00	H
ATOM	2028	HG22	THR	X	327	53.423	111.387	137.483	1.00	0.00	H
ATOM	2029	HG23	THR	X	327	55.087	111.736	137.107	1.00	0.00	H
ATOM	2030	OG1	THR	X	327	55.225	110.420	139.246	1.00	0.00	O
ATOM	2031	HG1	THR	X	327	54.676	111.055	139.711	1.00	0.00	H
ATOM	2032	C	THR	X	327	52.738	108.277	137.293	1.00	0.00	C
ATOM	2033	O	THR	X	327	51.943	108.758	136.534	1.00	0.00	O
ATOM	2034	N	LEU	X	328	53.015	106.982	137.194	1.00	0.00	N
ATOM	2035	H	LEU	X	328	53.623	106.602	137.906	1.00	0.00	H
ATOM	2036	CA	LEU	X	328	52.514	106.009	136.203	1.00	0.00	C
ATOM	2037	HA	LEU	X	328	52.858	106.415	135.251	1.00	0.00	H
ATOM	2038	CB	LEU	X	328	53.147	104.629	136.497	1.00	0.00	C
ATOM	2039	HB2	LEU	X	328	54.192	104.875	136.687	1.00	0.00	H
ATOM	2040	HB3	LEU	X	328	52.715	104.189	137.395	1.00	0.00	H
ATOM	2041	CG	LEU	X	328	53.103	103.569	135.351	1.00	0.00	C
ATOM	2042	HG	LEU	X	328	52.058	103.432	135.071	1.00	0.00	H
ATOM	2043	CD1	LEU	X	328	53.869	104.128	134.182	1.00	0.00	C
ATOM	2044	HD11	LEU	X	328	53.998	103.439	133.348	1.00	0.00	H
ATOM	2045	HD12	LEU	X	328	53.453	105.069	133.822	1.00	0.00	H
ATOM	2046	HD13	LEU	X	328	54.884	104.284	134.549	1.00	0.00	H
ATOM	2047	CD2	LEU	X	328	53.763	102.238	135.764	1.00	0.00	C
ATOM	2048	HD21	LEU	X	328	53.776	101.530	134.935	1.00	0.00	H

ATOM	2049	HD22	LEU	X	328	54.837	102.423	135.800	1.00	0.00	H
ATOM	2050	HD23	LEU	X	328	53.381	101.844	136.706	1.00	0.00	H
ATOM	2051	C	LEU	X	328	51.019	105.856	136.154	1.00	0.00	C
ATOM	2052	O	LEU	X	328	50.437	106.114	135.106	1.00	0.00	O
ATOM	2053	N	LEU	X	329	50.405	105.571	137.297	1.00	0.00	N
ATOM	2054	H	LEU	X	329	50.879	105.328	138.154	1.00	0.00	H
ATOM	2055	CA	LEU	X	329	48.978	105.275	137.390	1.00	0.00	C
ATOM	2056	HA	LEU	X	329	48.676	104.603	136.585	1.00	0.00	H
ATOM	2057	CB	LEU	X	329	48.721	104.648	138.766	1.00	0.00	C
ATOM	2058	HB2	LEU	X	329	49.009	105.363	139.536	1.00	0.00	H
ATOM	2059	HB3	LEU	X	329	47.636	104.703	138.852	1.00	0.00	H
ATOM	2060	CG	LEU	X	329	49.346	103.242	138.935	1.00	0.00	C
ATOM	2061	HG	LEU	X	329	50.435	103.304	138.961	1.00	0.00	H
ATOM	2062	CD1	LEU	X	329	48.924	102.611	140.332	1.00	0.00	C
ATOM	2063	HD11	LEU	X	329	48.978	101.526	140.421	1.00	0.00	H
ATOM	2064	HD12	LEU	X	329	49.600	103.125	141.016	1.00	0.00	H
ATOM	2065	HD13	LEU	X	329	47.862	102.852	140.375	1.00	0.00	H
ATOM	2066	CD2	LEU	X	329	48.827	102.304	137.822	1.00	0.00	C
ATOM	2067	HD21	LEU	X	329	49.020	101.242	137.967	1.00	0.00	H
ATOM	2068	HD22	LEU	X	329	47.741	102.363	137.880	1.00	0.00	H
ATOM	2069	HD23	LEU	X	329	49.224	102.500	136.826	1.00	0.00	H
ATOM	2070	C	LEU	X	329	48.183	106.564	137.180	1.00	0.00	C
ATOM	2071	O	LEU	X	329	47.070	106.470	136.650	1.00	0.00	O
ATOM	2072	N	PHE	X	330	48.705	107.763	137.582	1.00	0.00	N
ATOM	2073	H	PHE	X	330	49.641	107.768	137.961	1.00	0.00	H
ATOM	2074	CA	PHE	X	330	47.831	108.948	137.744	1.00	0.00	C
ATOM	2075	HA	PHE	X	330	46.763	108.767	137.626	1.00	0.00	H
ATOM	2076	CB	PHE	X	330	48.036	109.585	139.198	1.00	0.00	C
ATOM	2077	HB2	PHE	X	330	49.066	109.921	139.320	1.00	0.00	H
ATOM	2078	HB3	PHE	X	330	47.427	110.487	139.247	1.00	0.00	H
ATOM	2079	CG	PHE	X	330	47.604	108.771	140.403	1.00	0.00	C
ATOM	2080	CD1	PHE	X	330	46.760	107.621	140.246	1.00	0.00	C
ATOM	2081	HD1	PHE	X	330	46.272	107.341	139.323	1.00	0.00	H
ATOM	2082	CE1	PHE	X	330	46.416	106.954	141.406	1.00	0.00	C
ATOM	2083	HE1	PHE	X	330	45.768	106.090	141.356	1.00	0.00	H
ATOM	2084	CZ	PHE	X	330	46.735	107.377	142.682	1.00	0.00	C
ATOM	2085	HZ	PHE	X	330	46.414	106.771	143.516	1.00	0.00	H
ATOM	2086	CE2	PHE	X	330	47.693	108.378	142.851	1.00	0.00	C
ATOM	2087	HE2	PHE	X	330	48.026	108.581	143.858	1.00	0.00	H
ATOM	2088	CD2	PHE	X	330	48.059	109.177	141.692	1.00	0.00	C
ATOM	2089	HD2	PHE	X	330	48.593	110.108	141.809	1.00	0.00	H
ATOM	2090	C	PHE	X	330	48.153	109.958	136.659	1.00	0.00	C
ATOM	2091	O	PHE	X	330	47.214	110.501	136.071	1.00	0.00	O
ATOM	2092	N	GLU	X	331	49.422	110.267	136.316	1.00	0.00	N
ATOM	2093	H	GLU	X	331	50.189	109.808	136.790	1.00	0.00	H
ATOM	2094	CA	GLU	X	331	49.718	111.150	135.167	1.00	0.00	C
ATOM	2095	HA	GLU	X	331	49.025	111.992	135.169	1.00	0.00	H
ATOM	2096	CB	GLU	X	331	51.096	111.809	135.386	1.00	0.00	C
ATOM	2097	HB2	GLU	X	331	51.190	112.215	136.394	1.00	0.00	H
ATOM	2098	HB3	GLU	X	331	51.826	111.003	135.321	1.00	0.00	H
ATOM	2099	CG	GLU	X	331	51.466	112.890	134.425	1.00	0.00	C
ATOM	2100	HG2	GLU	X	331	52.522	113.119	134.577	1.00	0.00	H
ATOM	2101	HG3	GLU	X	331	51.232	112.556	133.415	1.00	0.00	H
ATOM	2102	CD	GLU	X	331	50.610	114.194	134.594	1.00	0.00	C
ATOM	2103	OE1	GLU	X	331	49.540	114.220	135.259	1.00	0.00	O
ATOM	2104	OE2	GLU	X	331	51.039	115.159	133.871	1.00	0.00	O
ATOM	2105	C	GLU	X	331	49.559	110.483	133.810	1.00	0.00	C
ATOM	2106	O	GLU	X	331	49.198	111.044	132.834	1.00	0.00	O
ATOM	2107	N	HIE	X	332	49.856	109.172	133.797	1.00	0.00	N
ATOM	2108	H	HIE	X	332	50.167	108.873	134.711	1.00	0.00	H
ATOM	2109	CA	HIE	X	332	49.975	108.307	132.608	1.00	0.00	C
ATOM	2110	HA	HIE	X	332	49.697	108.966	131.787	1.00	0.00	H
ATOM	2111	CB	HIE	X	332	51.457	107.787	132.477	1.00	0.00	C
ATOM	2112	HB2	HIE	X	332	51.579	107.253	133.419	1.00	0.00	H
ATOM	2113	HB3	HIE	X	332	51.505	107.091	131.638	1.00	0.00	H
ATOM	2114	CG	HIE	X	332	52.464	108.864	132.258	1.00	0.00	C
ATOM	2115	ND1	HIE	X	332	52.588	109.671	131.127	1.00	0.00	N
ATOM	2116	CE1	HIE	X	332	53.514	110.595	131.408	1.00	0.00	C
ATOM	2117	HE1	HIE	X	332	53.743	111.397	130.721	1.00	0.00	H
ATOM	2118	NE2	HIE	X	332	53.917	110.504	132.664	1.00	0.00	N
ATOM	2119	HE2	HIE	X	332	54.586	111.061	133.176	1.00	0.00	H
ATOM	2120	CD2	HIE	X	332	53.271	109.354	133.239	1.00	0.00	C
ATOM	2121	HD2	HIE	X	332	53.355	109.023	134.263	1.00	0.00	H
ATOM	2122	C	HIE	X	332	48.943	107.212	132.458	1.00	0.00	C
ATOM	2123	O	HIE	X	332	48.960	106.706	131.333	1.00	0.00	O
ATOM	2124	N	CYS	X	333	47.973	107.102	133.353	1.00	0.00	N
ATOM	2125	H	CYS	X	333	48.105	107.486	134.278	1.00	0.00	H
ATOM	2126	CA	CYS	X	333	46.713	106.391	133.001	1.00	0.00	C
ATOM	2127	HA	CYS	X	333	46.522	106.409	131.929	1.00	0.00	H
ATOM	2128	CB	CYS	X	333	46.840	104.940	133.534	1.00	0.00	C
ATOM	2129	HB2	CYS	X	333	47.861	104.558	133.517	1.00	0.00	H
ATOM	2130	HB3	CYS	X	333	46.517	104.934	134.574	1.00	0.00	H

ATOM	2131	SG	CYS	X	333	45.779	103.781	132.672	1.00	0.00	S
ATOM	2132	HG	CYS	X	333	46.568	103.531	131.624	1.00	0.00	H
ATOM	2133	C	CYS	X	333	45.347	107.056	133.475	1.00	0.00	C
ATOM	2134	O	CYS	X	333	44.432	107.125	132.666	1.00	0.00	O
ATOM	2135	N	CYS	X	334	45.147	107.504	134.756	1.00	0.00	N
ATOM	2136	H	CYS	X	334	45.844	107.291	135.453	1.00	0.00	H
ATOM	2137	CA	CYS	X	334	43.924	108.271	135.188	1.00	0.00	C
ATOM	2138	HA	CYS	X	334	43.534	108.917	134.401	1.00	0.00	H
ATOM	2139	CB	CYS	X	334	42.789	107.197	135.253	1.00	0.00	C
ATOM	2140	HB2	CYS	X	334	42.467	106.994	134.232	1.00	0.00	H
ATOM	2141	HB3	CYS	X	334	43.011	106.276	135.793	1.00	0.00	H
ATOM	2142	SG	CYS	X	334	41.257	107.843	135.982	1.00	0.00	S
ATOM	2143	HG	CYS	X	334	40.905	106.690	136.560	1.00	0.00	H
ATOM	2144	C	CYS	X	334	44.243	109.004	136.599	1.00	0.00	C
ATOM	2145	O	CYS	X	334	44.565	108.409	137.598	1.00	0.00	O
ATOM	2146	N	TRP	X	335	44.063	110.316	136.731	1.00	0.00	N
ATOM	2147	H	TRP	X	335	43.754	110.805	135.903	1.00	0.00	H
ATOM	2148	CA	TRP	X	335	44.083	111.109	137.941	1.00	0.00	C
ATOM	2149	HA	TRP	X	335	44.991	110.879	138.499	1.00	0.00	H
ATOM	2150	CB	TRP	X	335	44.086	112.633	137.541	1.00	0.00	C
ATOM	2151	HB2	TRP	X	335	44.977	112.849	136.951	1.00	0.00	H
ATOM	2152	HB3	TRP	X	335	43.270	112.798	136.838	1.00	0.00	H
ATOM	2153	CG	TRP	X	335	43.882	113.665	138.654	1.00	0.00	C
ATOM	2154	CD1	TRP	X	335	42.927	114.623	138.724	1.00	0.00	C
ATOM	2155	HD1	TRP	X	335	42.094	114.765	138.053	1.00	0.00	H
ATOM	2156	NE1	TRP	X	335	43.123	115.417	139.815	1.00	0.00	N
ATOM	2157	HE1	TRP	X	335	42.614	116.282	139.924	1.00	0.00	H
ATOM	2158	CE2	TRP	X	335	44.214	115.089	140.479	1.00	0.00	C
ATOM	2159	CZ2	TRP	X	335	44.896	115.633	141.607	1.00	0.00	C
ATOM	2160	HZ2	TRP	X	335	44.458	116.418	142.205	1.00	0.00	H
ATOM	2161	CH2	TRP	X	335	46.144	115.154	141.971	1.00	0.00	C
ATOM	2162	HH2	TRP	X	335	46.672	115.613	142.794	1.00	0.00	H
ATOM	2163	CZ3	TRP	X	335	46.744	114.270	141.098	1.00	0.00	C
ATOM	2164	HZ3	TRP	X	335	47.800	114.092	141.230	1.00	0.00	H
ATOM	2165	CE3	TRP	X	335	46.025	113.703	140.035	1.00	0.00	C
ATOM	2166	HE3	TRP	X	335	46.611	113.076	139.378	1.00	0.00	H
ATOM	2167	CD2	TRP	X	335	44.763	114.079	139.683	1.00	0.00	C
ATOM	2168	C	TRP	X	335	42.803	110.908	138.781	1.00	0.00	C
ATOM	2169	O	TRP	X	335	41.683	111.069	138.228	1.00	0.00	O
ATOM	2170	N	PRO	X	336	42.890	110.561	140.105	1.00	0.00	N
ATOM	2171	CD	PRO	X	336	44.051	110.029	140.755	1.00	0.00	C
ATOM	2172	HD2	PRO	X	336	44.577	110.907	141.131	1.00	0.00	H
ATOM	2173	HD3	PRO	X	336	44.683	109.411	140.115	1.00	0.00	H
ATOM	2174	CG	PRO	X	336	43.454	109.135	141.896	1.00	0.00	C
ATOM	2175	HG2	PRO	X	336	44.199	109.186	142.689	1.00	0.00	H
ATOM	2176	HG3	PRO	X	336	43.372	108.117	141.517	1.00	0.00	H
ATOM	2177	CB	PRO	X	336	42.132	109.658	142.195	1.00	0.00	C
ATOM	2178	HB2	PRO	X	336	42.257	110.317	143.054	1.00	0.00	H
ATOM	2179	HB3	PRO	X	336	41.377	108.891	142.373	1.00	0.00	H
ATOM	2180	CA	PRO	X	336	41.734	110.543	141.016	1.00	0.00	C
ATOM	2181	HA	PRO	X	336	40.968	109.996	140.467	1.00	0.00	H
ATOM	2182	C	PRO	X	336	41.233	111.966	141.379	1.00	0.00	C
ATOM	2183	O	PRO	X	336	42.049	112.834	141.696	1.00	0.00	O
ATOM	2184	N	ASP	X	337	39.904	112.258	141.283	1.00	0.00	N
ATOM	2185	H	ASP	X	337	39.243	111.506	141.151	1.00	0.00	H
ATOM	2186	CA	ASP	X	337	39.393	113.599	141.666	1.00	0.00	C
ATOM	2187	HA	ASP	X	337	39.959	114.379	141.155	1.00	0.00	H
ATOM	2188	CB	ASP	X	337	37.887	113.737	141.384	1.00	0.00	C
ATOM	2189	HB2	ASP	X	337	37.371	112.882	141.822	1.00	0.00	H
ATOM	2190	HB3	ASP	X	337	37.443	114.646	141.791	1.00	0.00	H
ATOM	2191	CG	ASP	X	337	37.445	113.716	139.963	1.00	0.00	C
ATOM	2192	OD1	ASP	X	337	38.184	114.068	139.088	1.00	0.00	O
ATOM	2193	OD2	ASP	X	337	36.253	113.368	139.768	1.00	0.00	O
ATOM	2194	C	ASP	X	337	39.519	114.051	143.176	1.00	0.00	C
ATOM	2195	O	ASP	X	337	39.552	115.250	143.447	1.00	0.00	O
ATOM	2196	N	VAL	X	338	39.784	113.058	143.997	1.00	0.00	N
ATOM	2197	H	VAL	X	338	39.808	112.148	143.561	1.00	0.00	H
ATOM	2198	CA	VAL	X	338	39.957	113.035	145.502	1.00	0.00	C
ATOM	2199	HA	VAL	X	338	40.632	113.845	145.784	1.00	0.00	H
ATOM	2200	CB	VAL	X	338	38.562	113.217	146.190	1.00	0.00	C
ATOM	2201	HB	VAL	X	338	38.032	114.052	145.730	1.00	0.00	H
ATOM	2202	CG1	VAL	X	338	37.661	112.022	145.886	1.00	0.00	C
ATOM	2203	HG11	VAL	X	338	37.595	111.957	144.800	1.00	0.00	H
ATOM	2204	HG12	VAL	X	338	38.088	111.101	146.286	1.00	0.00	H
ATOM	2205	HG13	VAL	X	338	36.707	112.272	146.352	1.00	0.00	H
ATOM	2206	CG2	VAL	X	338	38.585	113.417	147.747	1.00	0.00	C
ATOM	2207	HG21	VAL	X	338	39.322	114.182	147.992	1.00	0.00	H
ATOM	2208	HG22	VAL	X	338	37.636	113.817	148.103	1.00	0.00	H
ATOM	2209	HG23	VAL	X	338	38.816	112.504	148.293	1.00	0.00	H
ATOM	2210	C	VAL	X	338	40.628	111.745	145.963	1.00	0.00	C
ATOM	2211	O	VAL	X	338	40.673	110.710	145.231	1.00	0.00	O
ATOM	2212	N	GLY	X	339	41.173	111.810	147.170	1.00	0.00	N

ATOM	2213	H	GLY	X	339	41.320	112.746	147.521	1.00	0.00	H
ATOM	2214	CA	GLY	X	339	41.616	110.649	147.843	1.00	0.00	C
ATOM	2215	HA2	GLY	X	339	41.975	110.898	148.842	1.00	0.00	H
ATOM	2216	HA3	GLY	X	339	40.879	109.850	147.927	1.00	0.00	H
ATOM	2217	C	GLY	X	339	42.697	109.838	147.079	1.00	0.00	C
ATOM	2218	O	GLY	X	339	42.616	108.628	147.159	1.00	0.00	O
ATOM	2219	N	GLN	X	340	43.628	110.505	146.379	1.00	0.00	N
ATOM	2220	H	GLN	X	340	43.590	111.509	146.269	1.00	0.00	H
ATOM	2221	CA	GLN	X	340	44.741	109.897	145.633	1.00	0.00	C
ATOM	2222	HA	GLN	X	340	44.431	109.324	144.758	1.00	0.00	H
ATOM	2223	CB	GLN	X	340	45.682	110.940	144.988	1.00	0.00	C
ATOM	2224	HB2	GLN	X	340	46.048	111.613	145.764	1.00	0.00	H
ATOM	2225	HB3	GLN	X	340	46.413	110.353	144.433	1.00	0.00	H
ATOM	2226	CG	GLN	X	340	44.876	111.829	143.955	1.00	0.00	C
ATOM	2227	HG2	GLN	X	340	45.654	112.312	143.364	1.00	0.00	H
ATOM	2228	HG3	GLN	X	340	44.168	111.283	143.333	1.00	0.00	H
ATOM	2229	CD	GLN	X	340	44.257	113.085	144.487	1.00	0.00	C
ATOM	2230	OE1	GLN	X	340	44.400	113.406	145.632	1.00	0.00	O
ATOM	2231	NE2	GLN	X	340	43.531	113.881	143.793	1.00	0.00	N
ATOM	2232	HE21	GLN	X	340	43.166	114.719	144.225	1.00	0.00	H
ATOM	2233	HE22	GLN	X	340	43.247	113.555	142.881	1.00	0.00	H
ATOM	2234	C	GLN	X	340	45.640	108.963	146.432	1.00	0.00	C
ATOM	2235	O	GLN	X	340	45.893	107.805	146.051	1.00	0.00	O
ATOM	2236	N	GLN	X	341	46.052	109.427	147.616	1.00	0.00	N
ATOM	2237	H	GLN	X	341	45.902	110.418	147.742	1.00	0.00	H
ATOM	2238	CA	GLN	X	341	46.640	108.511	148.659	1.00	0.00	C
ATOM	2239	HA	GLN	X	341	47.556	108.088	148.244	1.00	0.00	H
ATOM	2240	CB	GLN	X	341	47.092	109.405	149.858	1.00	0.00	C
ATOM	2241	HB2	GLN	X	341	47.786	110.202	149.591	1.00	0.00	H
ATOM	2242	HB3	GLN	X	341	46.136	109.821	150.174	1.00	0.00	H
ATOM	2243	CG	GLN	X	341	47.645	108.601	151.087	1.00	0.00	C
ATOM	2244	HG2	GLN	X	341	47.791	109.277	151.930	1.00	0.00	H
ATOM	2245	HG3	GLN	X	341	46.946	107.869	151.493	1.00	0.00	H
ATOM	2246	CD	GLN	X	341	49.001	107.999	150.653	1.00	0.00	C
ATOM	2247	OE1	GLN	X	341	49.721	108.404	149.770	1.00	0.00	O
ATOM	2248	NE2	GLN	X	341	49.404	106.934	151.291	1.00	0.00	N
ATOM	2249	HE21	GLN	X	341	50.311	106.520	151.132	1.00	0.00	H
ATOM	2250	HE22	GLN	X	341	48.896	106.396	151.979	1.00	0.00	H
ATOM	2251	C	GLN	X	341	45.850	107.357	149.119	1.00	0.00	C
ATOM	2252	O	GLN	X	341	46.326	106.258	149.492	1.00	0.00	O
ATOM	2253	N	ASP	X	342	44.484	107.593	149.279	1.00	0.00	N
ATOM	2254	H	ASP	X	342	44.028	108.376	148.835	1.00	0.00	H
ATOM	2255	CA	ASP	X	342	43.596	106.511	149.615	1.00	0.00	C
ATOM	2256	HA	ASP	X	342	44.079	106.033	150.467	1.00	0.00	H
ATOM	2257	CB	ASP	X	342	42.132	106.938	150.029	1.00	0.00	C
ATOM	2258	HB2	ASP	X	342	41.754	107.601	149.252	1.00	0.00	H
ATOM	2259	HB3	ASP	X	342	41.512	106.041	150.059	1.00	0.00	H
ATOM	2260	CG	ASP	X	342	42.074	107.714	151.329	1.00	0.00	C
ATOM	2261	OD1	ASP	X	342	43.106	108.067	151.902	1.00	0.00	O
ATOM	2262	OD2	ASP	X	342	40.935	108.018	151.802	1.00	0.00	O
ATOM	2263	C	ASP	X	342	43.519	105.496	148.528	1.00	0.00	C
ATOM	2264	O	ASP	X	342	43.813	104.265	148.759	1.00	0.00	O
ATOM	2265	N	VAL	X	343	43.163	105.854	147.253	1.00	0.00	N
ATOM	2266	H	VAL	X	343	42.816	106.798	147.164	1.00	0.00	H
ATOM	2267	CA	VAL	X	343	43.272	105.088	146.055	1.00	0.00	C
ATOM	2268	HA	VAL	X	343	42.496	104.325	146.128	1.00	0.00	H
ATOM	2269	CB	VAL	X	343	42.883	105.904	144.803	1.00	0.00	C
ATOM	2270	HB	VAL	X	343	43.680	106.646	144.746	1.00	0.00	H
ATOM	2271	CG1	VAL	X	343	42.970	105.028	143.482	1.00	0.00	C
ATOM	2272	HG11	VAL	X	343	42.142	104.319	143.515	1.00	0.00	H
ATOM	2273	HG12	VAL	X	343	42.931	105.725	142.645	1.00	0.00	H
ATOM	2274	HG13	VAL	X	343	43.980	104.642	143.343	1.00	0.00	H
ATOM	2275	CG2	VAL	X	343	41.495	106.591	144.821	1.00	0.00	C
ATOM	2276	HG21	VAL	X	343	41.251	107.052	145.780	1.00	0.00	H
ATOM	2277	HG22	VAL	X	343	41.430	107.316	144.010	1.00	0.00	H
ATOM	2278	HG23	VAL	X	343	40.762	105.822	144.579	1.00	0.00	H
ATOM	2279	C	VAL	X	343	44.642	104.366	145.835	1.00	0.00	C
ATOM	2280	O	VAL	X	343	44.692	103.138	145.685	1.00	0.00	O
ATOM	2281	N	PHE	X	344	45.794	104.999	146.020	1.00	0.00	N
ATOM	2282	H	PHE	X	344	45.774	105.982	146.254	1.00	0.00	H
ATOM	2283	CA	PHE	X	344	47.097	104.377	145.890	1.00	0.00	C
ATOM	2284	HA	PHE	X	344	47.241	103.878	144.932	1.00	0.00	H
ATOM	2285	CB	PHE	X	344	48.174	105.487	145.920	1.00	0.00	C
ATOM	2286	HB2	PHE	X	344	47.979	106.262	145.179	1.00	0.00	H
ATOM	2287	HB3	PHE	X	344	48.176	106.003	146.880	1.00	0.00	H
ATOM	2288	CG	PHE	X	344	49.574	104.993	145.725	1.00	0.00	C
ATOM	2289	CD1	PHE	X	344	49.977	104.825	144.423	1.00	0.00	C
ATOM	2290	HD1	PHE	X	344	49.422	105.134	143.551	1.00	0.00	H
ATOM	2291	CE1	PHE	X	344	51.266	104.422	144.175	1.00	0.00	C
ATOM	2292	HE1	PHE	X	344	51.591	104.408	143.145	1.00	0.00	H
ATOM	2293	CZ	PHE	X	344	52.192	104.330	145.285	1.00	0.00	C
ATOM	2294	HZ	PHE	X	344	53.252	104.243	145.096	1.00	0.00	H

ATOM	2295	CE2	PHE	X	344	51.812	104.606	146.613	1.00	0.00	C
ATOM	2296	HE2	PHE	X	344	52.430	104.533	147.496	1.00	0.00	H
ATOM	2297	CD2	PHE	X	344	50.458	104.856	146.828	1.00	0.00	C
ATOM	2298	HD2	PHE	X	344	50.101	104.946	147.843	1.00	0.00	H
ATOM	2299	C	PHE	X	344	47.296	103.341	146.952	1.00	0.00	C
ATOM	2300	O	PHE	X	344	47.894	102.280	146.759	1.00	0.00	O
ATOM	2301	N	GLN	X	345	46.710	103.494	148.140	1.00	0.00	N
ATOM	2302	H	GLN	X	345	46.136	104.303	148.337	1.00	0.00	H
ATOM	2303	CA	GLN	X	345	46.820	102.488	149.271	1.00	0.00	C
ATOM	2304	HA	GLN	X	345	47.810	102.040	149.182	1.00	0.00	H
ATOM	2305	CB	GLN	X	345	46.691	103.218	150.607	1.00	0.00	C
ATOM	2306	HB2	GLN	X	345	45.914	103.977	150.525	1.00	0.00	H
ATOM	2307	HB3	GLN	X	345	46.338	102.470	151.318	1.00	0.00	H
ATOM	2308	CG	GLN	X	345	47.968	103.922	151.125	1.00	0.00	C
ATOM	2309	HG2	GLN	X	345	48.514	104.344	150.281	1.00	0.00	H
ATOM	2310	HG3	GLN	X	345	47.704	104.702	151.837	1.00	0.00	H
ATOM	2311	CD	GLN	X	345	48.895	102.896	151.763	1.00	0.00	C
ATOM	2312	OE1	GLN	X	345	48.435	101.911	152.380	1.00	0.00	O
ATOM	2313	NE2	GLN	X	345	50.204	102.959	151.665	1.00	0.00	N
ATOM	2314	HE21	GLN	X	345	50.664	102.158	152.076	1.00	0.00	H
ATOM	2315	HE22	GLN	X	345	50.704	103.689	151.177	1.00	0.00	H
ATOM	2316	C	GLN	X	345	45.796	101.331	149.051	1.00	0.00	C
ATOM	2317	O	GLN	X	345	46.155	100.173	149.278	1.00	0.00	O
ATOM	2318	N	PHE	X	346	44.551	101.596	148.518	1.00	0.00	N
ATOM	2319	H	PHE	X	346	44.299	102.572	148.449	1.00	0.00	H
ATOM	2320	CA	PHE	X	346	43.639	100.552	148.061	1.00	0.00	C
ATOM	2321	HA	PHE	X	346	43.441	99.837	148.858	1.00	0.00	H
ATOM	2322	CB	PHE	X	346	42.382	101.268	147.518	1.00	0.00	C
ATOM	2323	HB2	PHE	X	346	41.975	101.734	148.415	1.00	0.00	H
ATOM	2324	HB3	PHE	X	346	42.597	101.982	146.725	1.00	0.00	H
ATOM	2325	CG	PHE	X	346	41.285	100.330	147.050	1.00	0.00	C
ATOM	2326	CD1	PHE	X	346	40.491	99.720	148.044	1.00	0.00	C
ATOM	2327	HD1	PHE	X	346	40.724	99.800	149.096	1.00	0.00	H
ATOM	2328	CE1	PHE	X	346	39.409	98.895	147.653	1.00	0.00	C
ATOM	2329	HE1	PHE	X	346	38.818	98.406	148.413	1.00	0.00	H
ATOM	2330	CZ	PHE	X	346	39.188	98.691	146.236	1.00	0.00	C
ATOM	2331	HZ	PHE	X	346	38.391	98.020	145.948	1.00	0.00	H
ATOM	2332	CE2	PHE	X	346	40.025	99.298	145.272	1.00	0.00	C
ATOM	2333	HE2	PHE	X	346	39.920	98.984	144.244	1.00	0.00	H
ATOM	2334	CD2	PHE	X	346	41.090	100.105	145.704	1.00	0.00	C
ATOM	2335	HD2	PHE	X	346	41.679	100.691	145.013	1.00	0.00	H
ATOM	2336	C	PHE	X	346	44.346	99.671	146.981	1.00	0.00	C
ATOM	2337	O	PHE	X	346	44.262	98.469	147.053	1.00	0.00	O
ATOM	2338	N	LEU	X	347	45.089	100.299	146.016	1.00	0.00	N
ATOM	2339	H	LEU	X	347	45.045	101.306	145.956	1.00	0.00	H
ATOM	2340	CA	LEU	X	347	45.880	99.530	145.008	1.00	0.00	C
ATOM	2341	HA	LEU	X	347	45.242	98.882	144.407	1.00	0.00	H
ATOM	2342	CB	LEU	X	347	46.337	100.639	144.046	1.00	0.00	C
ATOM	2343	HB2	LEU	X	347	46.928	101.404	144.550	1.00	0.00	H
ATOM	2344	HB3	LEU	X	347	47.075	100.203	143.372	1.00	0.00	H
ATOM	2345	CG	LEU	X	347	45.300	101.359	143.221	1.00	0.00	C
ATOM	2346	HG	LEU	X	347	44.378	101.527	143.779	1.00	0.00	H
ATOM	2347	CD1	LEU	X	347	45.782	102.727	142.709	1.00	0.00	C
ATOM	2348	HD11	LEU	X	347	46.763	102.632	142.244	1.00	0.00	H
ATOM	2349	HD12	LEU	X	347	45.123	103.181	141.970	1.00	0.00	H
ATOM	2350	HD13	LEU	X	347	45.896	103.409	143.551	1.00	0.00	H
ATOM	2351	CD2	LEU	X	347	45.088	100.494	141.964	1.00	0.00	C
ATOM	2352	HD21	LEU	X	347	44.342	100.992	141.344	1.00	0.00	H
ATOM	2353	HD22	LEU	X	347	45.999	100.363	141.381	1.00	0.00	H
ATOM	2354	HD23	LEU	X	347	44.820	99.473	142.235	1.00	0.00	H
ATOM	2355	C	LEU	X	347	46.992	98.686	145.635	1.00	0.00	C
ATOM	2356	O	LEU	X	347	47.381	97.711	145.053	1.00	0.00	O
ATOM	2357	N	LEU	X	348	47.545	99.032	146.802	1.00	0.00	N
ATOM	2358	H	LEU	X	348	47.208	99.910	147.170	1.00	0.00	H
ATOM	2359	CA	LEU	X	348	48.595	98.217	147.550	1.00	0.00	C
ATOM	2360	HA	LEU	X	348	49.245	97.636	146.895	1.00	0.00	H
ATOM	2361	CB	LEU	X	348	49.601	99.198	148.309	1.00	0.00	C
ATOM	2362	HB2	LEU	X	348	49.028	99.850	148.969	1.00	0.00	H
ATOM	2363	HB3	LEU	X	348	50.277	98.602	148.923	1.00	0.00	H
ATOM	2364	CG	LEU	X	348	50.405	100.199	147.388	1.00	0.00	C
ATOM	2365	HG	LEU	X	348	49.852	100.863	146.724	1.00	0.00	H
ATOM	2366	CD1	LEU	X	348	51.159	101.184	148.302	1.00	0.00	C
ATOM	2367	HD11	LEU	X	348	51.849	101.763	147.688	1.00	0.00	H
ATOM	2368	HD12	LEU	X	348	50.446	101.860	148.774	1.00	0.00	H
ATOM	2369	HD13	LEU	X	348	51.686	100.648	149.092	1.00	0.00	H
ATOM	2370	CD2	LEU	X	348	51.577	99.344	146.828	1.00	0.00	C
ATOM	2371	HD21	LEU	X	348	51.061	98.536	146.311	1.00	0.00	H
ATOM	2372	HD22	LEU	X	348	52.127	99.891	146.062	1.00	0.00	H
ATOM	2373	HD23	LEU	X	348	52.239	98.975	147.613	1.00	0.00	H
ATOM	2374	C	LEU	X	348	47.981	97.149	148.411	1.00	0.00	C
ATOM	2375	O	LEU	X	348	48.602	96.165	148.717	1.00	0.00	O
ATOM	2376	N	ASP	X	349	46.665	97.224	148.604	1.00	0.00	N

ATOM	2377	H	ASP	X	349	46.244	98.110	148.360	1.00	0.00	H
ATOM	2378	CA	ASP	X	349	45.882	96.273	149.415	1.00	0.00	C
ATOM	2379	HA	ASP	X	349	46.650	95.786	150.014	1.00	0.00	H
ATOM	2380	CB	ASP	X	349	44.972	97.101	150.297	1.00	0.00	C
ATOM	2381	HB2	ASP	X	349	44.392	97.735	149.628	1.00	0.00	H
ATOM	2382	HB3	ASP	X	349	44.405	96.363	150.866	1.00	0.00	H
ATOM	2383	CG	ASP	X	349	45.539	98.128	151.255	1.00	0.00	C
ATOM	2384	OD1	ASP	X	349	46.671	98.118	151.725	1.00	0.00	O
ATOM	2385	OD2	ASP	X	349	44.681	98.801	151.911	1.00	0.00	O
ATOM	2386	C	ASP	X	349	45.137	95.247	148.603	1.00	0.00	C
ATOM	2387	O	ASP	X	349	44.991	94.110	149.133	1.00	0.00	O
ATOM	2388	N	HIE	X	350	44.659	95.517	147.328	1.00	0.00	N
ATOM	2389	H	HIE	X	350	44.903	96.392	146.885	1.00	0.00	H
ATOM	2390	CA	HIE	X	350	43.981	94.439	146.569	1.00	0.00	C
ATOM	2391	HA	HIE	X	350	44.163	93.523	147.132	1.00	0.00	H
ATOM	2392	CB	HIE	X	350	42.500	94.687	146.575	1.00	0.00	C
ATOM	2393	HB2	HIE	X	350	42.453	95.683	146.134	1.00	0.00	H
ATOM	2394	HB3	HIE	X	350	42.067	93.871	145.998	1.00	0.00	H
ATOM	2395	CG	HIE	X	350	41.908	94.653	147.974	1.00	0.00	C
ATOM	2396	ND1	HIE	X	350	41.424	93.458	148.611	1.00	0.00	N
ATOM	2397	CE1	HIE	X	350	41.003	93.847	149.829	1.00	0.00	C
ATOM	2398	HE1	HIE	X	350	40.615	93.199	150.601	1.00	0.00	H
ATOM	2399	NE2	HIE	X	350	41.040	95.176	149.948	1.00	0.00	N
ATOM	2400	HE2	HIE	X	350	40.956	95.720	150.796	1.00	0.00	H
ATOM	2401	CD2	HIE	X	350	41.620	95.716	148.798	1.00	0.00	C
ATOM	2402	HD2	HIE	X	350	41.835	96.760	148.624	1.00	0.00	H
ATOM	2403	C	HIE	X	350	44.569	94.116	145.193	1.00	0.00	C
ATOM	2404	O	HIE	X	350	43.899	93.878	144.199	1.00	0.00	O
ATOM	2405	N	PRO	X	351	45.949	93.968	145.098	1.00	0.00	N
ATOM	2406	CD	PRO	X	351	46.988	93.829	146.059	1.00	0.00	C
ATOM	2407	HD2	PRO	X	351	46.633	93.153	146.836	1.00	0.00	H
ATOM	2408	HD3	PRO	X	351	47.253	94.813	146.443	1.00	0.00	H
ATOM	2409	CG	PRO	X	351	48.230	93.234	145.331	1.00	0.00	C
ATOM	2410	HG2	PRO	X	351	48.230	92.146	145.266	1.00	0.00	H
ATOM	2411	HG3	PRO	X	351	49.109	93.424	145.946	1.00	0.00	H
ATOM	2412	CB	PRO	X	351	48.116	93.992	143.991	1.00	0.00	C
ATOM	2413	HB2	PRO	X	351	48.586	93.552	143.110	1.00	0.00	H
ATOM	2414	HB3	PRO	X	351	48.459	95.016	144.137	1.00	0.00	H
ATOM	2415	CA	PRO	X	351	46.604	94.008	143.758	1.00	0.00	C
ATOM	2416	HA	PRO	X	351	46.283	94.883	143.192	1.00	0.00	H
ATOM	2417	C	PRO	X	351	46.357	92.743	142.910	1.00	0.00	C
ATOM	2418	O	PRO	X	351	46.674	92.712	141.740	1.00	0.00	O
ATOM	2419	N	ASP	X	352	45.885	91.620	143.508	1.00	0.00	N
ATOM	2420	H	ASP	X	352	45.597	91.696	144.472	1.00	0.00	H
ATOM	2421	CA	ASP	X	352	45.767	90.315	142.832	1.00	0.00	C
ATOM	2422	HA	ASP	X	352	46.687	90.047	142.315	1.00	0.00	H
ATOM	2423	CB	ASP	X	352	45.577	89.113	143.841	1.00	0.00	C
ATOM	2424	HB2	ASP	X	352	45.449	88.204	143.254	1.00	0.00	H
ATOM	2425	HB3	ASP	X	352	46.421	88.969	144.516	1.00	0.00	H
ATOM	2426	CG	ASP	X	352	44.330	89.259	144.667	1.00	0.00	C
ATOM	2427	OD1	ASP	X	352	43.930	90.388	144.975	1.00	0.00	O
ATOM	2428	OD2	ASP	X	352	43.787	88.197	145.104	1.00	0.00	O
ATOM	2429	C	ASP	X	352	44.702	90.298	141.713	1.00	0.00	C
ATOM	2430	O	ASP	X	352	44.625	89.432	140.852	1.00	0.00	O
ATOM	2431	N	ARG	X	353	43.846	91.354	141.690	1.00	0.00	N
ATOM	2432	H	ARG	X	353	43.853	92.024	142.447	1.00	0.00	H
ATOM	2433	CA	ARG	X	353	43.015	91.645	140.486	1.00	0.00	C
ATOM	2434	HA	ARG	X	353	43.269	90.974	139.665	1.00	0.00	H
ATOM	2435	CB	ARG	X	353	41.483	91.391	140.837	1.00	0.00	C
ATOM	2436	HB2	ARG	X	353	41.299	92.075	141.667	1.00	0.00	H
ATOM	2437	HB3	ARG	X	353	40.851	91.571	139.968	1.00	0.00	H
ATOM	2438	CG	ARG	X	353	41.279	90.040	141.504	1.00	0.00	C
ATOM	2439	HG2	ARG	X	353	41.450	89.316	140.707	1.00	0.00	H
ATOM	2440	HG3	ARG	X	353	41.922	89.745	142.333	1.00	0.00	H
ATOM	2441	CD	ARG	X	353	39.797	89.952	141.862	1.00	0.00	C
ATOM	2442	HD2	ARG	X	353	39.191	90.384	141.065	1.00	0.00	H
ATOM	2443	HD3	ARG	X	353	39.407	88.945	142.019	1.00	0.00	H
ATOM	2444	NE	ARG	X	353	39.514	90.833	143.062	1.00	0.00	N
ATOM	2445	HE	ARG	X	353	40.240	91.110	143.710	1.00	0.00	H
ATOM	2446	CZ	ARG	X	353	38.336	91.437	143.299	1.00	0.00	C
ATOM	2447	NH1	ARG	X	353	37.362	91.293	142.475	1.00	0.00	N
ATOM	2448	HH11	ARG	X	353	37.582	90.888	141.575	1.00	0.00	H
ATOM	2449	HH12	ARG	X	353	36.516	91.828	142.608	1.00	0.00	H
ATOM	2450	NH2	ARG	X	353	38.146	92.235	144.300	1.00	0.00	N
ATOM	2451	HH21	ARG	X	353	38.861	92.320	145.007	1.00	0.00	H
ATOM	2452	HH22	ARG	X	353	37.191	92.479	144.523	1.00	0.00	H
ATOM	2453	C	ARG	X	353	43.278	92.963	139.774	1.00	0.00	C
ATOM	2454	O	ARG	X	353	42.363	93.455	139.067	1.00	0.00	O
ATOM	2455	N	ILE	X	354	44.516	93.418	139.653	1.00	0.00	N
ATOM	2456	H	ILE	X	354	45.217	93.016	140.258	1.00	0.00	H
ATOM	2457	CA	ILE	X	354	44.928	94.430	138.702	1.00	0.00	C
ATOM	2458	HA	ILE	X	354	43.973	94.903	138.473	1.00	0.00	H

ATOM	2459	CB	ILE	X	354	46.028	95.337	139.313	1.00	0.00	C
ATOM	2460	HB	ILE	X	354	46.841	94.663	139.584	1.00	0.00	H
ATOM	2461	CG2	ILE	X	354	46.619	96.231	138.177	1.00	0.00	C
ATOM	2462	HG21	ILE	X	354	47.297	96.947	138.645	1.00	0.00	H
ATOM	2463	HG22	ILE	X	354	47.194	95.721	137.405	1.00	0.00	H
ATOM	2464	HG23	ILE	X	354	45.859	96.779	137.619	1.00	0.00	H
ATOM	2465	CG1	ILE	X	354	45.566	96.061	140.531	1.00	0.00	C
ATOM	2466	HG12	ILE	X	354	44.715	96.651	140.190	1.00	0.00	H
ATOM	2467	HG13	ILE	X	354	45.197	95.327	141.248	1.00	0.00	H
ATOM	2468	CD1	ILE	X	354	46.529	97.054	141.174	1.00	0.00	C
ATOM	2469	HD11	ILE	X	354	47.416	96.557	141.568	1.00	0.00	H
ATOM	2470	HD12	ILE	X	354	46.873	97.812	140.469	1.00	0.00	H
ATOM	2471	HD13	ILE	X	354	45.939	97.567	141.934	1.00	0.00	H
ATOM	2472	C	ILE	X	354	45.319	93.795	137.385	1.00	0.00	C
ATOM	2473	O	ILE	X	354	46.073	92.853	137.381	1.00	0.00	O
ATOM	2474	N	LEU	X	355	44.899	94.336	136.258	1.00	0.00	N
ATOM	2475	H	LEU	X	355	44.105	94.958	136.292	1.00	0.00	H
ATOM	2476	CA	LEU	X	355	45.450	94.114	134.930	1.00	0.00	C
ATOM	2477	HA	LEU	X	355	46.204	93.329	134.992	1.00	0.00	H
ATOM	2478	CB	LEU	X	355	44.359	93.425	134.042	1.00	0.00	C
ATOM	2479	HB2	LEU	X	355	43.787	92.653	134.559	1.00	0.00	H
ATOM	2480	HB3	LEU	X	355	43.576	94.164	133.869	1.00	0.00	H
ATOM	2481	CG	LEU	X	355	44.979	92.802	132.766	1.00	0.00	C
ATOM	2482	HG	LEU	X	355	45.759	93.479	132.418	1.00	0.00	H
ATOM	2483	CD1	LEU	X	355	45.705	91.448	132.839	1.00	0.00	C
ATOM	2484	HD11	LEU	X	355	46.004	91.052	131.869	1.00	0.00	H
ATOM	2485	HD12	LEU	X	355	46.578	91.556	133.484	1.00	0.00	H
ATOM	2486	HD13	LEU	X	355	45.070	90.706	133.323	1.00	0.00	H
ATOM	2487	CD2	LEU	X	355	43.894	92.508	131.729	1.00	0.00	C
ATOM	2488	HD21	LEU	X	355	43.239	91.703	132.061	1.00	0.00	H
ATOM	2489	HD22	LEU	X	355	43.198	93.344	131.642	1.00	0.00	H
ATOM	2490	HD23	LEU	X	355	44.311	92.221	130.764	1.00	0.00	H
ATOM	2491	C	LEU	X	355	46.171	95.279	134.342	1.00	0.00	C
ATOM	2492	O	LEU	X	355	45.503	96.291	134.073	1.00	0.00	O
ATOM	2493	N	LEU	X	356	47.474	95.065	134.107	1.00	0.00	N
ATOM	2494	H	LEU	X	356	47.884	94.182	134.370	1.00	0.00	H
ATOM	2495	CA	LEU	X	356	48.439	95.962	133.436	1.00	0.00	C
ATOM	2496	HA	LEU	X	356	48.188	97.011	133.588	1.00	0.00	H
ATOM	2497	CB	LEU	X	356	49.827	95.860	134.146	1.00	0.00	C
ATOM	2498	HB2	LEU	X	356	50.188	94.843	133.997	1.00	0.00	H
ATOM	2499	HB3	LEU	X	356	50.475	96.518	133.567	1.00	0.00	H
ATOM	2500	CG	LEU	X	356	49.767	96.351	135.647	1.00	0.00	C
ATOM	2501	HG	LEU	X	356	48.919	95.860	136.123	1.00	0.00	H
ATOM	2502	CD1	LEU	X	356	50.982	95.832	136.465	1.00	0.00	C
ATOM	2503	HD11	LEU	X	356	51.838	96.321	136.000	1.00	0.00	H
ATOM	2504	HD12	LEU	X	356	50.890	95.890	137.549	1.00	0.00	H
ATOM	2505	HD13	LEU	X	356	51.096	94.781	136.203	1.00	0.00	H
ATOM	2506	CD2	LEU	X	356	49.632	97.840	135.748	1.00	0.00	C
ATOM	2507	HD21	LEU	X	356	50.321	98.403	135.120	1.00	0.00	H
ATOM	2508	HD22	LEU	X	356	48.664	98.093	135.311	1.00	0.00	H
ATOM	2509	HD23	LEU	X	356	49.777	98.083	136.800	1.00	0.00	H
ATOM	2510	C	LEU	X	356	48.655	95.605	131.891	1.00	0.00	C
ATOM	2511	O	LEU	X	356	49.468	94.709	131.507	1.00	0.00	O
ATOM	2512	N	THR	X	357	47.837	96.159	131.025	1.00	0.00	N
ATOM	2513	H	THR	X	357	47.062	96.720	131.349	1.00	0.00	H
ATOM	2514	CA	THR	X	357	48.037	95.967	129.596	1.00	0.00	C
ATOM	2515	HA	THR	X	357	48.388	94.949	129.434	1.00	0.00	H
ATOM	2516	CB	THR	X	357	46.658	96.033	128.879	1.00	0.00	C
ATOM	2517	HB	THR	X	357	46.814	95.909	127.808	1.00	0.00	H
ATOM	2518	CG2	THR	X	357	45.675	94.946	129.359	1.00	0.00	C
ATOM	2519	HG21	THR	X	357	45.908	93.950	128.984	1.00	0.00	H
ATOM	2520	HG22	THR	X	357	45.462	95.011	130.425	1.00	0.00	H
ATOM	2521	HG23	THR	X	357	44.759	95.094	128.788	1.00	0.00	H
ATOM	2522	OG1	THR	X	357	45.981	97.282	129.083	1.00	0.00	O
ATOM	2523	HG1	THR	X	357	46.602	97.844	129.552	1.00	0.00	H
ATOM	2524	C	THR	X	357	49.041	96.984	129.013	1.00	0.00	C
ATOM	2525	O	THR	X	357	48.722	98.172	128.848	1.00	0.00	O
ATOM	2526	N	PHE	X	358	50.292	96.557	128.761	1.00	0.00	N
ATOM	2527	H	PHE	X	358	50.458	95.573	128.921	1.00	0.00	H
ATOM	2528	CA	PHE	X	358	51.449	97.311	128.163	1.00	0.00	C
ATOM	2529	HA	PHE	X	358	51.283	98.371	128.353	1.00	0.00	H
ATOM	2530	CB	PHE	X	358	52.739	96.951	128.884	1.00	0.00	C
ATOM	2531	HB2	PHE	X	358	52.683	95.862	128.909	1.00	0.00	H
ATOM	2532	HB3	PHE	X	358	53.639	97.096	128.288	1.00	0.00	H
ATOM	2533	CG	PHE	X	358	52.955	97.521	130.283	1.00	0.00	C
ATOM	2534	CD1	PHE	X	358	53.348	98.910	130.357	1.00	0.00	C
ATOM	2535	HD1	PHE	X	358	53.338	99.502	129.455	1.00	0.00	H
ATOM	2536	CE1	PHE	X	358	53.443	99.465	131.631	1.00	0.00	C
ATOM	2537	HE1	PHE	X	358	53.628	100.517	131.788	1.00	0.00	H
ATOM	2538	CZ	PHE	X	358	53.375	98.698	132.768	1.00	0.00	C
ATOM	2539	HZ	PHE	X	358	53.549	99.140	133.738	1.00	0.00	H
ATOM	2540	CE2	PHE	X	358	53.106	97.314	132.641	1.00	0.00	C

ATOM	2541	HE2	PHE	X	358	53.060	96.635	133.479	1.00	0.00	H
ATOM	2542	CD2	PHE	X	358	52.825	96.775	131.394	1.00	0.00	C
ATOM	2543	HD2	PHE	X	358	52.478	95.753	131.375	1.00	0.00	H
ATOM	2544	C	PHE	X	358	51.466	96.993	126.700	1.00	0.00	C
ATOM	2545	O	PHE	X	358	52.207	96.054	126.323	1.00	0.00	O
ATOM	2546	N	ASP	X	359	50.884	97.776	125.811	1.00	0.00	N
ATOM	2547	H	ASP	X	359	50.468	98.587	126.247	1.00	0.00	H
ATOM	2548	CA	ASP	X	359	51.002	97.748	124.350	1.00	0.00	C
ATOM	2549	HA	ASP	X	359	50.923	96.720	123.997	1.00	0.00	H
ATOM	2550	CB	ASP	X	359	49.863	98.492	123.530	1.00	0.00	C
ATOM	2551	HB2	ASP	X	359	48.918	98.304	124.041	1.00	0.00	H
ATOM	2552	HB3	ASP	X	359	50.019	99.571	123.556	1.00	0.00	H
ATOM	2553	CG	ASP	X	359	49.668	97.934	122.141	1.00	0.00	C
ATOM	2554	OD1	ASP	X	359	50.117	96.844	121.715	1.00	0.00	O
ATOM	2555	OD2	ASP	X	359	49.027	98.614	121.277	1.00	0.00	O
ATOM	2556	C	ASP	X	359	52.364	98.282	123.947	1.00	0.00	C
ATOM	2557	O	ASP	X	359	52.839	99.215	124.624	1.00	0.00	O
ATOM	2558	N	GLY	X	360	52.915	97.773	122.817	1.00	0.00	N
ATOM	2559	H	GLY	X	360	52.590	96.880	122.476	1.00	0.00	H
ATOM	2560	CA	GLY	X	360	54.102	98.281	122.157	1.00	0.00	C
ATOM	2561	HA2	GLY	X	360	54.184	97.633	121.283	1.00	0.00	H
ATOM	2562	HA3	GLY	X	360	54.067	99.347	121.929	1.00	0.00	H
ATOM	2563	C	GLY	X	360	55.441	98.071	122.906	1.00	0.00	C
ATOM	2564	O	GLY	X	360	56.368	98.892	122.869	1.00	0.00	O
ATOM	2565	N	PHE	X	361	55.544	96.982	123.694	1.00	0.00	N
ATOM	2566	H	PHE	X	361	54.688	96.502	123.928	1.00	0.00	H
ATOM	2567	CA	PHE	X	361	56.725	96.750	124.574	1.00	0.00	C
ATOM	2568	HA	PHE	X	361	56.959	97.545	125.283	1.00	0.00	H
ATOM	2569	CB	PHE	X	361	56.429	95.522	125.459	1.00	0.00	C
ATOM	2570	HB2	PHE	X	361	55.524	95.568	126.063	1.00	0.00	H
ATOM	2571	HB3	PHE	X	361	56.357	94.657	124.799	1.00	0.00	H
ATOM	2572	CG	PHE	X	361	57.487	95.212	126.536	1.00	0.00	C
ATOM	2573	CD1	PHE	X	361	57.471	95.884	127.804	1.00	0.00	C
ATOM	2574	HD1	PHE	X	361	56.675	96.578	128.033	1.00	0.00	H
ATOM	2575	CE1	PHE	X	361	58.367	95.569	128.754	1.00	0.00	C
ATOM	2576	HE1	PHE	X	361	58.312	96.109	129.688	1.00	0.00	H
ATOM	2577	CZ	PHE	X	361	59.419	94.651	128.520	1.00	0.00	C
ATOM	2578	HZ	PHE	X	361	60.078	94.403	129.339	1.00	0.00	H
ATOM	2579	CE2	PHE	X	361	59.466	93.983	127.272	1.00	0.00	C
ATOM	2580	HE2	PHE	X	361	60.264	93.276	127.102	1.00	0.00	H
ATOM	2581	CD2	PHE	X	361	58.523	94.291	126.288	1.00	0.00	C
ATOM	2582	HD2	PHE	X	361	58.611	93.919	125.277	1.00	0.00	H
ATOM	2583	C	PHE	X	361	58.022	96.556	123.766	1.00	0.00	C
ATOM	2584	O	PHE	X	361	59.091	96.379	124.331	1.00	0.00	O
ATOM	2585	N	ASP	X	362	58.018	96.345	122.476	1.00	0.00	N
ATOM	2586	H	ASP	X	362	57.123	96.476	122.027	1.00	0.00	H
ATOM	2587	CA	ASP	X	362	59.206	96.069	121.613	1.00	0.00	C
ATOM	2588	HA	ASP	X	362	59.785	95.265	122.067	1.00	0.00	H
ATOM	2589	CB	ASP	X	362	58.732	95.568	120.195	1.00	0.00	C
ATOM	2590	HB2	ASP	X	362	59.597	95.313	119.585	1.00	0.00	H
ATOM	2591	HB3	ASP	X	362	58.194	94.621	120.252	1.00	0.00	H
ATOM	2592	CG	ASP	X	362	57.907	96.576	119.419	1.00	0.00	C
ATOM	2593	OD1	ASP	X	362	56.683	96.448	119.320	1.00	0.00	O
ATOM	2594	OD2	ASP	X	362	58.534	97.477	118.865	1.00	0.00	O
ATOM	2595	C	ASP	X	362	60.067	97.311	121.510	1.00	0.00	C
ATOM	2596	O	ASP	X	362	61.170	97.275	120.943	1.00	0.00	O
ATOM	2597	N	GLU	X	363	59.633	98.404	122.094	1.00	0.00	N
ATOM	2598	H	GLU	X	363	58.669	98.419	122.395	1.00	0.00	H
ATOM	2599	CA	GLU	X	363	60.447	99.615	122.340	1.00	0.00	C
ATOM	2600	HA	GLU	X	363	60.836	100.129	121.461	1.00	0.00	H
ATOM	2601	CB	GLU	X	363	59.481	100.597	123.133	1.00	0.00	C
ATOM	2602	HB2	GLU	X	363	58.851	100.011	123.802	1.00	0.00	H
ATOM	2603	HB3	GLU	X	363	60.072	101.160	123.853	1.00	0.00	H
ATOM	2604	CG	GLU	X	363	58.590	101.548	122.324	1.00	0.00	C
ATOM	2605	HG2	GLU	X	363	57.629	101.122	122.038	1.00	0.00	H
ATOM	2606	HG3	GLU	X	363	58.382	102.364	123.017	1.00	0.00	H
ATOM	2607	CD	GLU	X	363	59.217	102.003	120.989	1.00	0.00	C
ATOM	2608	OE1	GLU	X	363	60.307	102.575	121.127	1.00	0.00	O
ATOM	2609	OE2	GLU	X	363	58.678	101.798	119.869	1.00	0.00	O
ATOM	2610	C	GLU	X	363	61.742	99.402	123.144	1.00	0.00	C
ATOM	2611	O	GLU	X	363	62.816	99.869	122.803	1.00	0.00	O
ATOM	2612	N	PHE	X	364	61.592	98.729	124.282	1.00	0.00	N
ATOM	2613	H	PHE	X	364	60.674	98.321	124.391	1.00	0.00	H
ATOM	2614	CA	PHE	X	364	62.603	98.612	125.427	1.00	0.00	C
ATOM	2615	HA	PHE	X	364	63.183	99.532	125.496	1.00	0.00	H
ATOM	2616	CB	PHE	X	364	61.820	98.366	126.747	1.00	0.00	C
ATOM	2617	HB2	PHE	X	364	61.327	97.395	126.791	1.00	0.00	H
ATOM	2618	HB3	PHE	X	364	62.487	98.261	127.603	1.00	0.00	H
ATOM	2619	CG	PHE	X	364	60.870	99.488	127.146	1.00	0.00	C
ATOM	2620	CD1	PHE	X	364	61.308	100.853	127.179	1.00	0.00	C
ATOM	2621	HD1	PHE	X	364	62.367	101.063	127.233	1.00	0.00	H
ATOM	2622	CE1	PHE	X	364	60.339	101.885	127.280	1.00	0.00	C

ATOM	2623	HE1	PHE	X	364	60.864	102.827	127.231	1.00	0.00	H
ATOM	2624	CZ	PHE	X	364	58.963	101.567	127.366	1.00	0.00	C
ATOM	2625	HZ	PHE	X	364	58.255	102.353	127.585	1.00	0.00	H
ATOM	2626	CE2	PHE	X	364	58.557	100.288	127.411	1.00	0.00	C
ATOM	2627	HE2	PHE	X	364	57.515	100.011	127.489	1.00	0.00	H
ATOM	2628	CD2	PHE	X	364	59.460	99.225	127.295	1.00	0.00	C
ATOM	2629	HD2	PHE	X	364	59.090	98.215	127.384	1.00	0.00	H
ATOM	2630	C	PHE	X	364	63.536	97.515	125.199	1.00	0.00	C
ATOM	2631	O	PHE	X	364	63.054	96.420	124.865	1.00	0.00	O
ATOM	2632	N	LYS	X	365	64.865	97.660	125.502	1.00	0.00	N
ATOM	2633	H	LYS	X	365	65.154	98.578	125.810	1.00	0.00	H
ATOM	2634	CA	LYS	X	365	65.988	96.747	125.467	1.00	0.00	C
ATOM	2635	HA	LYS	X	365	65.677	95.720	125.277	1.00	0.00	H
ATOM	2636	CB	LYS	X	365	66.919	97.204	124.250	1.00	0.00	C
ATOM	2637	HB2	LYS	X	365	67.061	98.283	124.300	1.00	0.00	H
ATOM	2638	HB3	LYS	X	365	67.894	96.800	124.525	1.00	0.00	H
ATOM	2639	CG	LYS	X	365	66.479	96.678	122.850	1.00	0.00	C
ATOM	2640	HG2	LYS	X	365	66.517	95.590	122.828	1.00	0.00	H
ATOM	2641	HG3	LYS	X	365	65.479	97.089	122.716	1.00	0.00	H
ATOM	2642	CD	LYS	X	365	67.474	97.261	121.880	1.00	0.00	C
ATOM	2643	HD2	LYS	X	365	67.629	98.335	121.977	1.00	0.00	H
ATOM	2644	HD3	LYS	X	365	68.501	96.914	121.998	1.00	0.00	H
ATOM	2645	CE	LYS	X	365	67.089	96.975	120.458	1.00	0.00	C
ATOM	2646	HE2	LYS	X	365	67.481	96.019	120.112	1.00	0.00	H
ATOM	2647	HE3	LYS	X	365	66.001	97.030	120.413	1.00	0.00	H
ATOM	2648	NZ	LYS	X	365	67.692	97.930	119.508	1.00	0.00	N
ATOM	2649	HZ1	LYS	X	365	68.701	97.934	119.580	1.00	0.00	H
ATOM	2650	HZ2	LYS	X	365	67.385	97.825	118.551	1.00	0.00	H
ATOM	2651	HZ3	LYS	X	365	67.448	98.880	119.751	1.00	0.00	H
ATOM	2652	C	LYS	X	365	66.822	96.826	126.812	1.00	0.00	C
ATOM	2653	O	LYS	X	365	67.641	97.736	127.066	1.00	0.00	O
ATOM	2654	N	PHE	X	366	66.475	95.862	127.649	1.00	0.00	N
ATOM	2655	H	PHE	X	366	65.711	95.241	127.431	1.00	0.00	H
ATOM	2656	CA	PHE	X	366	66.797	95.904	129.092	1.00	0.00	C
ATOM	2657	HA	PHE	X	366	66.583	96.923	129.414	1.00	0.00	H
ATOM	2658	CB	PHE	X	366	65.950	94.935	129.864	1.00	0.00	C
ATOM	2659	HB2	PHE	X	366	66.071	93.931	129.458	1.00	0.00	H
ATOM	2660	HB3	PHE	X	366	66.187	94.899	130.928	1.00	0.00	H
ATOM	2661	CG	PHE	X	366	64.489	95.301	129.704	1.00	0.00	C
ATOM	2662	CD1	PHE	X	366	63.922	95.983	130.760	1.00	0.00	C
ATOM	2663	HD1	PHE	X	366	64.592	96.182	131.583	1.00	0.00	H
ATOM	2664	CE1	PHE	X	366	62.566	96.430	130.777	1.00	0.00	C
ATOM	2665	HE1	PHE	X	366	62.214	97.023	131.607	1.00	0.00	H
ATOM	2666	CZ	PHE	X	366	61.821	96.256	129.590	1.00	0.00	C
ATOM	2667	HZ	PHE	X	366	60.807	96.601	129.462	1.00	0.00	H
ATOM	2668	CE2	PHE	X	366	62.379	95.398	128.569	1.00	0.00	C
ATOM	2669	HE2	PHE	X	366	61.771	95.132	127.716	1.00	0.00	H
ATOM	2670	CD2	PHE	X	366	63.687	94.924	128.620	1.00	0.00	C
ATOM	2671	HD2	PHE	X	366	64.032	94.306	127.805	1.00	0.00	H
ATOM	2672	C	PHE	X	366	68.275	95.681	129.342	1.00	0.00	C
ATOM	2673	O	PHE	X	366	68.867	94.635	128.917	1.00	0.00	O
ATOM	2674	N	LYS	X	367	68.932	96.710	129.953	1.00	0.00	N
ATOM	2675	H	LYS	X	367	68.459	97.534	130.296	1.00	0.00	H
ATOM	2676	CA	LYS	X	367	70.376	96.686	130.270	1.00	0.00	C
ATOM	2677	HA	LYS	X	367	70.941	96.471	129.362	1.00	0.00	H
ATOM	2678	CB	LYS	X	367	70.886	98.105	130.695	1.00	0.00	C
ATOM	2679	HB2	LYS	X	367	70.338	98.487	131.554	1.00	0.00	H
ATOM	2680	HB3	LYS	X	367	71.969	98.133	130.827	1.00	0.00	H
ATOM	2681	CG	LYS	X	367	70.544	99.052	129.486	1.00	0.00	C
ATOM	2682	HG2	LYS	X	367	70.866	98.597	128.550	1.00	0.00	H
ATOM	2683	HG3	LYS	X	367	69.497	99.322	129.348	1.00	0.00	H
ATOM	2684	CD	LYS	X	367	71.262	100.381	129.631	1.00	0.00	C
ATOM	2685	HD2	LYS	X	367	72.329	100.281	129.436	1.00	0.00	H
ATOM	2686	HD3	LYS	X	367	70.767	100.868	128.789	1.00	0.00	H
ATOM	2687	CE	LYS	X	367	70.942	101.178	130.891	1.00	0.00	C
ATOM	2688	HE2	LYS	X	367	71.139	100.523	131.741	1.00	0.00	H
ATOM	2689	HE3	LYS	X	367	71.535	102.091	130.923	1.00	0.00	H
ATOM	2690	NZ	LYS	X	367	69.558	101.507	131.024	1.00	0.00	N
ATOM	2691	HZ1	LYS	X	367	69.208	101.978	130.202	1.00	0.00	H
ATOM	2692	HZ2	LYS	X	367	69.018	100.671	131.188	1.00	0.00	H
ATOM	2693	HZ3	LYS	X	367	69.293	102.060	131.827	1.00	0.00	H
ATOM	2694	C	LYS	X	367	70.714	95.772	131.379	1.00	0.00	C
ATOM	2695	O	LYS	X	367	69.833	95.512	132.189	1.00	0.00	O
ATOM	2696	N	PHE	X	368	71.917	95.305	131.590	1.00	0.00	N
ATOM	2697	H	PHE	X	368	72.669	95.668	131.023	1.00	0.00	H
ATOM	2698	CA	PHE	X	368	72.257	94.503	132.801	1.00	0.00	C
ATOM	2699	HA	PHE	X	368	71.714	93.562	132.886	1.00	0.00	H
ATOM	2700	CB	PHE	X	368	73.765	94.116	132.665	1.00	0.00	C
ATOM	2701	HB2	PHE	X	368	74.356	95.013	132.853	1.00	0.00	H
ATOM	2702	HB3	PHE	X	368	74.157	93.474	133.453	1.00	0.00	H
ATOM	2703	CG	PHE	X	368	74.286	93.534	131.338	1.00	0.00	C
ATOM	2704	CD1	PHE	X	368	75.416	94.115	130.759	1.00	0.00	C

ATOM	2705	HD1	PHE	X	368	75.829	95.057	131.087	1.00	0.00	H
ATOM	2706	CE1	PHE	X	368	75.772	93.650	129.439	1.00	0.00	C
ATOM	2707	HE1	PHE	X	368	76.620	94.093	128.940	1.00	0.00	H
ATOM	2708	CZ	PHE	X	368	75.066	92.591	128.797	1.00	0.00	C
ATOM	2709	HZ	PHE	X	368	75.308	92.361	127.770	1.00	0.00	H
ATOM	2710	CE2	PHE	X	368	74.007	92.071	129.468	1.00	0.00	C
ATOM	2711	HE2	PHE	X	368	73.449	91.329	128.915	1.00	0.00	H
ATOM	2712	CD2	PHE	X	368	73.583	92.521	130.669	1.00	0.00	C
ATOM	2713	HD2	PHE	X	368	72.753	92.061	131.184	1.00	0.00	H
ATOM	2714	C	PHE	X	368	71.892	95.275	134.084	1.00	0.00	C
ATOM	2715	O	PHE	X	368	71.170	94.744	134.868	1.00	0.00	O
ATOM	2716	N	THR	X	369	72.349	96.533	134.193	1.00	0.00	N
ATOM	2717	H	THR	X	369	72.940	96.920	133.472	1.00	0.00	H
ATOM	2718	CA	THR	X	369	71.959	97.385	135.382	1.00	0.00	C
ATOM	2719	HA	THR	X	369	72.215	96.809	136.272	1.00	0.00	H
ATOM	2720	CB	THR	X	369	72.794	98.675	135.258	1.00	0.00	C
ATOM	2721	HB	THR	X	369	72.670	99.300	136.142	1.00	0.00	H
ATOM	2722	CG2	THR	X	369	74.326	98.434	135.326	1.00	0.00	C
ATOM	2723	HG21	THR	X	369	74.771	99.396	135.577	1.00	0.00	H
ATOM	2724	HG22	THR	X	369	74.607	97.726	136.106	1.00	0.00	H
ATOM	2725	HG23	THR	X	369	74.798	98.077	134.410	1.00	0.00	H
ATOM	2726	OG1	THR	X	369	72.513	99.375	134.051	1.00	0.00	O
ATOM	2727	HG1	THR	X	369	72.026	100.195	134.171	1.00	0.00	H
ATOM	2728	C	THR	X	369	70.409	97.667	135.572	1.00	0.00	C
ATOM	2729	O	THR	X	369	69.992	98.212	136.639	1.00	0.00	O
ATOM	2730	N	ASP	X	370	69.588	97.382	134.557	1.00	0.00	N
ATOM	2731	H	ASP	X	370	70.007	96.854	133.804	1.00	0.00	H
ATOM	2732	CA	ASP	X	370	68.137	97.574	134.581	1.00	0.00	C
ATOM	2733	HA	ASP	X	370	67.943	98.548	135.032	1.00	0.00	H
ATOM	2734	CB	ASP	X	370	67.456	97.624	133.261	1.00	0.00	C
ATOM	2735	HB2	ASP	X	370	67.720	96.729	132.696	1.00	0.00	H
ATOM	2736	HB3	ASP	X	370	66.386	97.810	133.347	1.00	0.00	H
ATOM	2737	CG	ASP	X	370	67.873	98.841	132.386	1.00	0.00	C
ATOM	2738	OD1	ASP	X	370	68.530	99.778	132.872	1.00	0.00	O
ATOM	2739	OD2	ASP	X	370	67.591	98.783	131.163	1.00	0.00	O
ATOM	2740	C	ASP	X	370	67.461	96.559	135.466	1.00	0.00	C
ATOM	2741	O	ASP	X	370	66.319	96.715	135.731	1.00	0.00	O
ATOM	2742	N	HIE	X	371	68.181	95.516	135.843	1.00	0.00	N
ATOM	2743	H	HIE	X	371	69.038	95.304	135.351	1.00	0.00	H
ATOM	2744	CA	HIE	X	371	67.829	94.457	136.751	1.00	0.00	C
ATOM	2745	HA	HIE	X	371	66.759	94.268	136.829	1.00	0.00	H
ATOM	2746	CB	HIE	X	371	68.451	93.126	136.332	1.00	0.00	C
ATOM	2747	HB2	HIE	X	371	69.503	93.038	136.602	1.00	0.00	H
ATOM	2748	HB3	HIE	X	371	67.866	92.346	136.818	1.00	0.00	H
ATOM	2749	CG	HIE	X	371	68.356	92.747	134.875	1.00	0.00	C
ATOM	2750	ND1	HIE	X	371	69.105	91.683	134.420	1.00	0.00	N
ATOM	2751	CE1	HIE	X	371	68.895	91.653	133.071	1.00	0.00	C
ATOM	2752	HE1	HIE	X	371	69.354	90.869	132.486	1.00	0.00	H
ATOM	2753	NE2	HIE	X	371	68.156	92.723	132.664	1.00	0.00	N
ATOM	2754	HE2	HIE	X	371	68.081	93.161	131.756	1.00	0.00	H
ATOM	2755	CD2	HIE	X	371	67.779	93.408	133.813	1.00	0.00	C
ATOM	2756	HD2	HIE	X	371	67.298	94.375	133.848	1.00	0.00	H
ATOM	2757	C	HIE	X	371	68.225	94.754	138.239	1.00	0.00	C
ATOM	2758	O	HIE	X	371	68.400	93.802	139.019	1.00	0.00	O
ATOM	2759	N	GLU	X	372	68.344	96.051	138.549	1.00	0.00	N
ATOM	2760	H	GLU	X	372	68.024	96.732	137.874	1.00	0.00	H
ATOM	2761	CA	GLU	X	372	68.676	96.611	139.853	1.00	0.00	C
ATOM	2762	HA	GLU	X	372	69.371	95.914	140.318	1.00	0.00	H
ATOM	2763	CB	GLU	X	372	69.274	98.003	139.774	1.00	0.00	C
ATOM	2764	HB2	GLU	X	372	70.078	98.016	139.040	1.00	0.00	H
ATOM	2765	HB3	GLU	X	372	68.497	98.748	139.600	1.00	0.00	H
ATOM	2766	CG	GLU	X	372	70.000	98.363	141.067	1.00	0.00	C
ATOM	2767	HG2	GLU	X	372	70.596	99.258	140.891	1.00	0.00	H
ATOM	2768	HG3	GLU	X	372	69.302	98.743	141.813	1.00	0.00	H
ATOM	2769	CD	GLU	X	372	70.822	97.277	141.666	1.00	0.00	C
ATOM	2770	OE1	GLU	X	372	70.301	96.574	142.572	1.00	0.00	O
ATOM	2771	OE2	GLU	X	372	72.041	97.112	141.415	1.00	0.00	O
ATOM	2772	C	GLU	X	372	67.406	96.589	140.735	1.00	0.00	C
ATOM	2773	O	GLU	X	372	66.283	96.887	140.282	1.00	0.00	O
ATOM	2774	N	ARG	X	373	67.558	96.080	141.966	1.00	0.00	N
ATOM	2775	H	ARG	X	373	68.499	95.904	142.291	1.00	0.00	H
ATOM	2776	CA	ARG	X	373	66.350	95.939	142.838	1.00	0.00	C
ATOM	2777	HA	ARG	X	373	65.524	95.626	142.200	1.00	0.00	H
ATOM	2778	CB	ARG	X	373	66.525	94.946	144.007	1.00	0.00	C
ATOM	2779	HB2	ARG	X	373	66.509	93.950	143.561	1.00	0.00	H
ATOM	2780	HB3	ARG	X	373	67.472	95.196	144.484	1.00	0.00	H
ATOM	2781	CG	ARG	X	373	65.302	94.848	145.010	1.00	0.00	C
ATOM	2782	HG2	ARG	X	373	64.379	94.867	144.430	1.00	0.00	H
ATOM	2783	HG3	ARG	X	373	65.253	93.858	145.467	1.00	0.00	H
ATOM	2784	CD	ARG	X	373	65.365	95.930	146.095	1.00	0.00	C
ATOM	2785	HD2	ARG	X	373	65.215	96.865	145.555	1.00	0.00	H
ATOM	2786	HD3	ARG	X	373	64.569	95.638	146.777	1.00	0.00	H

ATOM	2787	NE	ARG	X	373	66.665	95.911	146.792	1.00	0.00	N
ATOM	2788	HE	ARG	X	373	67.144	95.024	146.851	1.00	0.00	H
ATOM	2789	CZ	ARG	X	373	67.330	96.894	147.437	1.00	0.00	C
ATOM	2790	NH1	ARG	X	373	66.726	98.015	147.725	1.00	0.00	N
ATOM	2791	HH11	ARG	X	373	65.784	98.172	147.394	1.00	0.00	H
ATOM	2792	HH12	ARG	X	373	67.271	98.772	148.111	1.00	0.00	H
ATOM	2793	NH2	ARG	X	373	68.533	96.741	147.755	1.00	0.00	N
ATOM	2794	HH21	ARG	X	373	68.980	95.835	147.712	1.00	0.00	H
ATOM	2795	HH22	ARG	X	373	69.045	97.468	148.236	1.00	0.00	H
ATOM	2796	C	ARG	X	373	65.860	97.276	143.351	1.00	0.00	C
ATOM	2797	O	ARG	X	373	66.620	98.047	143.940	1.00	0.00	O
ATOM	2798	N	HIE	X	374	64.594	97.488	143.127	1.00	0.00	N
ATOM	2799	H	HIE	X	374	64.081	96.734	142.696	1.00	0.00	H
ATOM	2800	CA	HIE	X	374	63.790	98.717	143.493	1.00	0.00	C
ATOM	2801	HA	HIE	X	374	64.236	99.166	144.380	1.00	0.00	H
ATOM	2802	CB	HIE	X	374	63.897	99.794	142.418	1.00	0.00	C
ATOM	2803	HB2	HIE	X	374	64.965	100.012	142.403	1.00	0.00	H
ATOM	2804	HB3	HIE	X	374	63.571	99.386	141.459	1.00	0.00	H
ATOM	2805	CG	HIE	X	374	63.160	101.113	142.754	1.00	0.00	C
ATOM	2806	ND1	HIE	X	374	63.846	102.290	142.988	1.00	0.00	N
ATOM	2807	CE1	HIE	X	374	62.830	103.184	143.079	1.00	0.00	C
ATOM	2808	HE1	HIE	X	374	62.955	104.238	143.275	1.00	0.00	H
ATOM	2809	NE2	HIE	X	374	61.586	102.600	142.893	1.00	0.00	N
ATOM	2810	HE2	HIE	X	374	60.668	103.010	142.979	1.00	0.00	H
ATOM	2811	CD2	HIE	X	374	61.797	101.295	142.685	1.00	0.00	C
ATOM	2812	HD2	HIE	X	374	61.091	100.504	142.484	1.00	0.00	H
ATOM	2813	C	HIE	X	374	62.316	98.349	143.872	1.00	0.00	C
ATOM	2814	O	HIE	X	374	61.338	98.232	143.068	1.00	0.00	O
ATOM	2815	N	CYS	X	375	62.200	98.063	145.194	1.00	0.00	N
ATOM	2816	H	CYS	X	375	62.981	98.184	145.824	1.00	0.00	H
ATOM	2817	CA	CYS	X	375	60.967	97.653	145.870	1.00	0.00	C
ATOM	2818	HA	CYS	X	375	60.375	97.115	145.130	1.00	0.00	H
ATOM	2819	CB	CYS	X	375	61.310	96.899	147.109	1.00	0.00	C
ATOM	2820	HB2	CYS	X	375	62.205	97.356	147.532	1.00	0.00	H
ATOM	2821	HB3	CYS	X	375	60.482	96.788	147.806	1.00	0.00	H
ATOM	2822	SG	CYS	X	375	61.742	95.240	146.584	1.00	0.00	S
ATOM	2823	HG	CYS	X	375	61.823	94.608	147.758	1.00	0.00	H
ATOM	2824	C	CYS	X	375	60.063	98.831	146.322	1.00	0.00	C
ATOM	2825	O	CYS	X	375	58.876	98.569	146.682	1.00	0.00	O
ATOM	2826	N	SER	X	376	60.521	100.091	146.256	1.00	0.00	N
ATOM	2827	H	SER	X	376	61.497	100.253	146.058	1.00	0.00	H
ATOM	2828	CA	SER	X	376	59.743	101.258	146.655	1.00	0.00	C
ATOM	2829	HA	SER	X	376	59.226	101.205	147.613	1.00	0.00	H
ATOM	2830	CB	SER	X	376	60.615	102.507	146.759	1.00	0.00	C
ATOM	2831	HB2	SER	X	376	61.376	102.315	147.515	1.00	0.00	H
ATOM	2832	HB3	SER	X	376	61.213	102.773	145.888	1.00	0.00	H
ATOM	2833	OG	SER	X	376	59.848	103.569	147.236	1.00	0.00	O
ATOM	2834	HG	SER	X	376	59.664	103.400	148.164	1.00	0.00	H
ATOM	2835	C	SER	X	376	58.680	101.723	145.690	1.00	0.00	C
ATOM	2836	O	SER	X	376	59.051	102.110	144.557	1.00	0.00	O
ATOM	2837	N	PRO	X	377	57.415	101.733	146.031	1.00	0.00	N
ATOM	2838	CD	PRO	X	377	56.762	100.941	147.102	1.00	0.00	C
ATOM	2839	HD2	PRO	X	377	56.743	101.612	147.960	1.00	0.00	H
ATOM	2840	HD3	PRO	X	377	57.267	100.009	147.354	1.00	0.00	H
ATOM	2841	CG	PRO	X	377	55.309	100.712	146.652	1.00	0.00	C
ATOM	2842	HG2	PRO	X	377	54.668	100.578	147.524	1.00	0.00	H
ATOM	2843	HG3	PRO	X	377	55.320	99.768	146.109	1.00	0.00	H
ATOM	2844	CB	PRO	X	377	54.941	101.778	145.662	1.00	0.00	C
ATOM	2845	HB2	PRO	X	377	54.458	102.655	146.092	1.00	0.00	H
ATOM	2846	HB3	PRO	X	377	54.346	101.240	144.923	1.00	0.00	H
ATOM	2847	CA	PRO	X	377	56.322	102.251	145.106	1.00	0.00	C
ATOM	2848	HA	PRO	X	377	56.445	101.791	144.126	1.00	0.00	H
ATOM	2849	C	PRO	X	377	56.447	103.825	144.875	1.00	0.00	C
ATOM	2850	O	PRO	X	377	55.860	104.283	143.831	1.00	0.00	O
ATOM	2851	N	THR	X	378	57.135	104.619	145.712	1.00	0.00	N
ATOM	2852	H	THR	X	378	57.458	104.145	146.544	1.00	0.00	H
ATOM	2853	CA	THR	X	378	57.094	106.102	145.577	1.00	0.00	C
ATOM	2854	HA	THR	X	378	56.492	106.344	144.702	1.00	0.00	H
ATOM	2855	CB	THR	X	378	56.474	106.812	146.785	1.00	0.00	C
ATOM	2856	HB	THR	X	378	56.555	107.897	146.723	1.00	0.00	H
ATOM	2857	CG2	THR	X	378	55.014	106.424	146.902	1.00	0.00	C
ATOM	2858	HG21	THR	X	378	54.492	106.918	147.721	1.00	0.00	H
ATOM	2859	HG22	THR	X	378	54.494	106.668	145.975	1.00	0.00	H
ATOM	2860	HG23	THR	X	378	54.894	105.359	147.095	1.00	0.00	H
ATOM	2861	OG1	THR	X	378	57.075	106.402	148.036	1.00	0.00	O
ATOM	2862	HG1	THR	X	378	57.880	106.912	148.158	1.00	0.00	H
ATOM	2863	C	THR	X	378	58.460	106.879	145.426	1.00	0.00	C
ATOM	2864	O	THR	X	378	58.548	108.014	144.952	1.00	0.00	O
ATOM	2865	N	ASP	X	379	59.643	106.236	145.659	1.00	0.00	N
ATOM	2866	H	ASP	X	379	59.590	105.304	146.044	1.00	0.00	H
ATOM	2867	CA	ASP	X	379	60.870	106.731	144.920	1.00	0.00	C
ATOM	2868	HA	ASP	X	379	60.974	107.811	145.015	1.00	0.00	H

ATOM	2869	CB	ASP	X	379	62.096	106.025	145.545	1.00	0.00	C
ATOM	2870	HB2	ASP	X	379	62.037	104.941	145.453	1.00	0.00	H
ATOM	2871	HB3	ASP	X	379	62.968	106.368	144.987	1.00	0.00	H
ATOM	2872	CG	ASP	X	379	62.309	106.440	146.972	1.00	0.00	C
ATOM	2873	OD1	ASP	X	379	62.665	105.603	147.777	1.00	0.00	O
ATOM	2874	OD2	ASP	X	379	62.272	107.619	147.319	1.00	0.00	O
ATOM	2875	C	ASP	X	379	60.756	106.406	143.360	1.00	0.00	C
ATOM	2876	O	ASP	X	379	60.332	105.289	142.977	1.00	0.00	O
ATOM	2877	N	PRO	X	380	61.072	107.414	142.493	1.00	0.00	N
ATOM	2878	CD	PRO	X	380	61.281	108.856	142.722	1.00	0.00	C
ATOM	2879	HD2	PRO	X	380	62.254	108.922	143.209	1.00	0.00	H
ATOM	2880	HD3	PRO	X	380	60.437	109.205	143.319	1.00	0.00	H
ATOM	2881	CG	PRO	X	380	61.234	109.540	141.354	1.00	0.00	C
ATOM	2882	HG2	PRO	X	380	62.029	110.249	141.122	1.00	0.00	H
ATOM	2883	HG3	PRO	X	380	60.308	110.105	141.250	1.00	0.00	H
ATOM	2884	CB	PRO	X	380	61.294	108.462	140.287	1.00	0.00	C
ATOM	2885	HB2	PRO	X	380	62.250	108.553	139.770	1.00	0.00	H
ATOM	2886	HB3	PRO	X	380	60.583	108.753	139.514	1.00	0.00	H
ATOM	2887	CA	PRO	X	380	61.159	107.157	141.094	1.00	0.00	C
ATOM	2888	HA	PRO	X	380	60.220	106.671	140.830	1.00	0.00	H
ATOM	2889	C	PRO	X	380	62.343	106.229	140.757	1.00	0.00	C
ATOM	2890	O	PRO	X	380	63.243	106.069	141.570	1.00	0.00	O
ATOM	2891	N	THR	X	381	62.313	105.552	139.647	1.00	0.00	N
ATOM	2892	H	THR	X	381	61.508	105.492	139.039	1.00	0.00	H
ATOM	2893	CA	THR	X	381	63.486	104.973	138.998	1.00	0.00	C
ATOM	2894	HA	THR	X	381	64.392	105.529	139.243	1.00	0.00	H
ATOM	2895	CB	THR	X	381	63.772	103.521	139.497	1.00	0.00	C
ATOM	2896	HB	THR	X	381	63.691	103.524	140.585	1.00	0.00	H
ATOM	2897	CG2	THR	X	381	62.680	102.611	138.984	1.00	0.00	C
ATOM	2898	HG21	THR	X	381	61.662	102.982	139.097	1.00	0.00	H
ATOM	2899	HG22	THR	X	381	62.886	102.248	137.978	1.00	0.00	H
ATOM	2900	HG23	THR	X	381	62.691	101.664	139.526	1.00	0.00	H
ATOM	2901	OG1	THR	X	381	65.046	102.999	139.056	1.00	0.00	O
ATOM	2902	HG1	THR	X	381	65.651	103.147	139.787	1.00	0.00	H
ATOM	2903	C	THR	X	381	63.357	105.006	137.444	1.00	0.00	C
ATOM	2904	O	THR	X	381	62.339	105.371	136.837	1.00	0.00	O
ATOM	2905	N	SER	X	382	64.509	104.745	136.763	1.00	0.00	N
ATOM	2906	H	SER	X	382	65.315	104.425	137.281	1.00	0.00	H
ATOM	2907	CA	SER	X	382	64.502	104.760	135.299	1.00	0.00	C
ATOM	2908	HA	SER	X	382	64.306	105.778	134.960	1.00	0.00	H
ATOM	2909	CB	SER	X	382	65.877	104.552	134.637	1.00	0.00	C
ATOM	2910	HB2	SER	X	382	66.619	104.948	135.330	1.00	0.00	H
ATOM	2911	HB3	SER	X	382	66.063	103.477	134.618	1.00	0.00	H
ATOM	2912	OG	SER	X	382	66.166	105.069	133.372	1.00	0.00	O
ATOM	2913	HG	SER	X	382	66.037	106.015	133.475	1.00	0.00	H
ATOM	2914	C	SER	X	382	63.461	103.715	134.657	1.00	0.00	C
ATOM	2915	O	SER	X	382	63.262	102.642	135.250	1.00	0.00	O
ATOM	2916	N	VAL	X	383	62.820	104.042	133.545	1.00	0.00	N
ATOM	2917	H	VAL	X	383	63.045	104.883	133.034	1.00	0.00	H
ATOM	2918	CA	VAL	X	383	61.605	103.392	133.079	1.00	0.00	C
ATOM	2919	HA	VAL	X	383	60.855	103.348	133.868	1.00	0.00	H
ATOM	2920	CB	VAL	X	383	60.977	104.116	131.820	1.00	0.00	C
ATOM	2921	HB	VAL	X	383	61.831	104.385	131.197	1.00	0.00	H
ATOM	2922	CG1	VAL	X	383	60.161	103.232	130.826	1.00	0.00	C
ATOM	2923	HG11	VAL	X	383	59.244	102.925	131.331	1.00	0.00	H
ATOM	2924	HG12	VAL	X	383	59.878	103.816	129.951	1.00	0.00	H
ATOM	2925	HG13	VAL	X	383	60.736	102.346	130.556	1.00	0.00	H
ATOM	2926	CG2	VAL	X	383	60.131	105.239	132.315	1.00	0.00	C
ATOM	2927	HG21	VAL	X	383	59.439	104.886	133.078	1.00	0.00	H
ATOM	2928	HG22	VAL	X	383	60.763	106.092	132.563	1.00	0.00	H
ATOM	2929	HG23	VAL	X	383	59.561	105.660	131.487	1.00	0.00	H
ATOM	2930	C	VAL	X	383	61.798	101.919	132.815	1.00	0.00	C
ATOM	2931	O	VAL	X	383	60.941	101.120	133.110	1.00	0.00	O
ATOM	2932	N	GLN	X	384	62.852	101.445	132.183	1.00	0.00	N
ATOM	2933	H	GLN	X	384	63.410	102.116	131.674	1.00	0.00	H
ATOM	2934	CA	GLN	X	384	63.081	100.019	131.956	1.00	0.00	C
ATOM	2935	HA	GLN	X	384	62.186	99.669	131.441	1.00	0.00	H
ATOM	2936	CB	GLN	X	384	64.364	99.805	131.039	1.00	0.00	C
ATOM	2937	HB2	GLN	X	384	65.119	100.538	131.327	1.00	0.00	H
ATOM	2938	HB3	GLN	X	384	64.820	98.816	131.064	1.00	0.00	H
ATOM	2939	CG	GLN	X	384	64.074	100.057	129.504	1.00	0.00	C
ATOM	2940	HG2	GLN	X	384	63.304	99.325	129.262	1.00	0.00	H
ATOM	2941	HG3	GLN	X	384	63.596	101.034	129.428	1.00	0.00	H
ATOM	2942	CD	GLN	X	384	65.202	99.927	128.456	1.00	0.00	C
ATOM	2943	OE1	GLN	X	384	65.053	100.298	127.304	1.00	0.00	O
ATOM	2944	NE2	GLN	X	384	66.399	99.491	128.782	1.00	0.00	N
ATOM	2945	HE21	GLN	X	384	66.994	99.257	127.999	1.00	0.00	H
ATOM	2946	HE22	GLN	X	384	66.588	99.158	129.717	1.00	0.00	H
ATOM	2947	C	GLN	X	384	63.330	99.223	133.278	1.00	0.00	C
ATOM	2948	O	GLN	X	384	62.796	98.112	133.521	1.00	0.00	O
ATOM	2949	N	THR	X	385	64.068	99.784	134.232	1.00	0.00	N
ATOM	2950	H	THR	X	385	64.526	100.652	133.996	1.00	0.00	H

ATOM	2951	CA	THR	X	385	64.190	99.252	135.569	1.00	0.00	C
ATOM	2952	HA	THR	X	385	64.544	98.222	135.564	1.00	0.00	H
ATOM	2953	CB	THR	X	385	65.081	100.161	136.424	1.00	0.00	C
ATOM	2954	HB	THR	X	385	64.635	101.151	136.507	1.00	0.00	H
ATOM	2955	CG2	THR	X	385	65.354	99.750	137.897	1.00	0.00	C
ATOM	2956	HG21	THR	X	385	65.741	98.732	137.882	1.00	0.00	H
ATOM	2957	HG22	THR	X	385	66.090	100.447	138.297	1.00	0.00	H
ATOM	2958	HG23	THR	X	385	64.423	99.685	138.461	1.00	0.00	H
ATOM	2959	OG1	THR	X	385	66.377	100.286	135.838	1.00	0.00	O
ATOM	2960	HG1	THR	X	385	66.195	100.833	135.070	1.00	0.00	H
ATOM	2961	C	THR	X	385	62.845	99.155	136.252	1.00	0.00	C
ATOM	2962	O	THR	X	385	62.581	98.155	136.971	1.00	0.00	O
ATOM	2963	N	LEU	X	386	61.936	100.093	136.154	1.00	0.00	N
ATOM	2964	H	LEU	X	386	62.181	100.938	135.659	1.00	0.00	H
ATOM	2965	CA	LEU	X	386	60.620	100.163	136.750	1.00	0.00	C
ATOM	2966	HA	LEU	X	386	60.668	99.989	137.825	1.00	0.00	H
ATOM	2967	CB	LEU	X	386	59.949	101.538	136.379	1.00	0.00	C
ATOM	2968	HB2	LEU	X	386	60.645	102.330	136.657	1.00	0.00	H
ATOM	2969	HB3	LEU	X	386	59.811	101.464	135.301	1.00	0.00	H
ATOM	2970	CG	LEU	X	386	58.518	101.789	136.923	1.00	0.00	C
ATOM	2971	HG	LEU	X	386	58.031	100.843	136.691	1.00	0.00	H
ATOM	2972	CD1	LEU	X	386	58.417	101.898	138.411	1.00	0.00	C
ATOM	2973	HD11	LEU	X	386	58.664	102.886	138.801	1.00	0.00	H
ATOM	2974	HD12	LEU	X	386	57.334	101.837	138.531	1.00	0.00	H
ATOM	2975	HD13	LEU	X	386	58.963	101.152	138.987	1.00	0.00	H
ATOM	2976	CD2	LEU	X	386	57.923	103.046	136.282	1.00	0.00	C
ATOM	2977	HD21	LEU	X	386	58.120	103.045	135.209	1.00	0.00	H
ATOM	2978	HD22	LEU	X	386	56.851	103.177	136.428	1.00	0.00	H
ATOM	2979	HD23	LEU	X	386	58.347	103.925	136.769	1.00	0.00	H
ATOM	2980	C	LEU	X	386	59.783	98.949	136.193	1.00	0.00	C
ATOM	2981	O	LEU	X	386	59.010	98.334	136.944	1.00	0.00	O
ATOM	2982	N	LEU	X	387	60.012	98.632	134.923	1.00	0.00	N
ATOM	2983	H	LEU	X	387	60.637	99.199	134.369	1.00	0.00	H
ATOM	2984	CA	LEU	X	387	59.294	97.562	134.250	1.00	0.00	C
ATOM	2985	HA	LEU	X	387	58.236	97.620	134.507	1.00	0.00	H
ATOM	2986	CB	LEU	X	387	59.431	97.769	132.755	1.00	0.00	C
ATOM	2987	HB2	LEU	X	387	60.511	97.742	132.611	1.00	0.00	H
ATOM	2988	HB3	LEU	X	387	59.126	96.827	132.296	1.00	0.00	H
ATOM	2989	CG	LEU	X	387	58.669	99.013	132.188	1.00	0.00	C
ATOM	2990	HG	LEU	X	387	58.740	99.786	132.954	1.00	0.00	H
ATOM	2991	CD1	LEU	X	387	59.155	99.525	130.870	1.00	0.00	C
ATOM	2992	HD11	LEU	X	387	60.191	99.854	130.949	1.00	0.00	H
ATOM	2993	HD12	LEU	X	387	58.971	98.819	130.058	1.00	0.00	H
ATOM	2994	HD13	LEU	X	387	58.529	100.380	130.620	1.00	0.00	H
ATOM	2995	CD2	LEU	X	387	57.234	98.553	132.021	1.00	0.00	C
ATOM	2996	HD21	LEU	X	387	56.654	99.468	132.144	1.00	0.00	H
ATOM	2997	HD22	LEU	X	387	57.178	98.303	130.961	1.00	0.00	H
ATOM	2998	HD23	LEU	X	387	56.868	97.788	132.705	1.00	0.00	H
ATOM	2999	C	LEU	X	387	59.879	96.218	134.752	1.00	0.00	C
ATOM	3000	O	LEU	X	387	59.192	95.372	135.333	1.00	0.00	O
ATOM	3001	N	PHE	X	388	61.217	96.084	134.736	1.00	0.00	N
ATOM	3002	H	PHE	X	388	61.751	96.825	134.307	1.00	0.00	H
ATOM	3003	CA	PHE	X	388	61.860	94.904	135.302	1.00	0.00	C
ATOM	3004	HA	PHE	X	388	61.668	94.045	134.659	1.00	0.00	H
ATOM	3005	CB	PHE	X	388	63.377	95.110	135.431	1.00	0.00	C
ATOM	3006	HB2	PHE	X	388	63.839	94.997	134.451	1.00	0.00	H
ATOM	3007	HB3	PHE	X	388	63.713	96.131	135.611	1.00	0.00	H
ATOM	3008	CG	PHE	X	388	64.026	94.211	136.462	1.00	0.00	C
ATOM	3009	CD1	PHE	X	388	64.422	94.708	137.765	1.00	0.00	C
ATOM	3010	HD1	PHE	X	388	64.456	95.767	137.979	1.00	0.00	H
ATOM	3011	CE1	PHE	X	388	64.999	93.950	138.752	1.00	0.00	C
ATOM	3012	HE1	PHE	X	388	65.184	94.275	139.766	1.00	0.00	H
ATOM	3013	CZ	PHE	X	388	65.215	92.632	138.488	1.00	0.00	C
ATOM	3014	HZ	PHE	X	388	65.604	92.025	139.292	1.00	0.00	H
ATOM	3015	CE2	PHE	X	388	64.863	92.006	137.290	1.00	0.00	C
ATOM	3016	HE2	PHE	X	388	64.795	90.928	137.246	1.00	0.00	H
ATOM	3017	CD2	PHE	X	388	64.187	92.821	136.288	1.00	0.00	C
ATOM	3018	HD2	PHE	X	388	63.648	92.382	135.461	1.00	0.00	H
ATOM	3019	C	PHE	X	388	61.375	94.568	136.781	1.00	0.00	C
ATOM	3020	O	PHE	X	388	61.028	93.414	137.125	1.00	0.00	O
ATOM	3021	N	ASN	X	389	61.327	95.487	137.707	1.00	0.00	N
ATOM	3022	H	ASN	X	389	61.591	96.423	137.438	1.00	0.00	H
ATOM	3023	CA	ASN	X	389	60.785	95.357	139.086	1.00	0.00	C
ATOM	3024	HA	ASN	X	389	61.237	94.468	139.524	1.00	0.00	H
ATOM	3025	CB	ASN	X	389	61.104	96.622	139.774	1.00	0.00	C
ATOM	3026	HB2	ASN	X	389	60.839	97.421	139.081	1.00	0.00	H
ATOM	3027	HB3	ASN	X	389	60.530	96.578	140.700	1.00	0.00	H
ATOM	3028	CG	ASN	X	389	62.579	96.652	140.244	1.00	0.00	C
ATOM	3029	OD1	ASN	X	389	62.832	95.958	141.177	1.00	0.00	O
ATOM	3030	ND2	ASN	X	389	63.416	97.462	139.623	1.00	0.00	N
ATOM	3031	HD21	ASN	X	389	64.386	97.216	139.758	1.00	0.00	H
ATOM	3032	HD22	ASN	X	389	63.048	97.826	138.756	1.00	0.00	H

ATOM	3033	C	ASN	X	389	59.202	95.038	139.089	1.00	0.00	C
ATOM	3034	O	ASN	X	389	58.737	94.332	140.009	1.00	0.00	O
ATOM	3035	N	LEU	X	390	58.463	95.439	138.129	1.00	0.00	N
ATOM	3036	H	LEU	X	390	58.884	96.151	137.550	1.00	0.00	H
ATOM	3037	CA	LEU	X	390	57.047	95.033	137.853	1.00	0.00	C
ATOM	3038	HA	LEU	X	390	56.482	94.887	138.774	1.00	0.00	H
ATOM	3039	CB	LEU	X	390	56.384	96.089	136.983	1.00	0.00	C
ATOM	3040	HB2	LEU	X	390	56.930	96.308	136.066	1.00	0.00	H
ATOM	3041	HB3	LEU	X	390	55.513	95.568	136.589	1.00	0.00	H
ATOM	3042	CG	LEU	X	390	55.990	97.382	137.602	1.00	0.00	C
ATOM	3043	HG	LEU	X	390	56.718	97.936	138.195	1.00	0.00	H
ATOM	3044	CD1	LEU	X	390	55.477	98.285	136.485	1.00	0.00	C
ATOM	3045	HD11	LEU	X	390	56.303	98.771	135.966	1.00	0.00	H
ATOM	3046	HD12	LEU	X	390	54.894	97.901	135.649	1.00	0.00	H
ATOM	3047	HD13	LEU	X	390	54.896	99.146	136.816	1.00	0.00	H
ATOM	3048	CD2	LEU	X	390	54.720	97.232	138.407	1.00	0.00	C
ATOM	3049	HD21	LEU	X	390	54.320	98.204	138.696	1.00	0.00	H
ATOM	3050	HD22	LEU	X	390	53.990	96.617	137.880	1.00	0.00	H
ATOM	3051	HD23	LEU	X	390	55.051	96.779	139.341	1.00	0.00	H
ATOM	3052	C	LEU	X	390	56.977	93.559	137.271	1.00	0.00	C
ATOM	3053	O	LEU	X	390	56.258	92.640	137.785	1.00	0.00	O
ATOM	3054	N	LEU	X	391	57.971	93.211	136.431	1.00	0.00	N
ATOM	3055	H	LEU	X	391	58.615	93.895	136.056	1.00	0.00	H
ATOM	3056	CA	LEU	X	391	58.019	91.928	135.694	1.00	0.00	C
ATOM	3057	HA	LEU	X	391	57.013	91.737	135.320	1.00	0.00	H
ATOM	3058	CB	LEU	X	391	59.069	92.048	134.547	1.00	0.00	C
ATOM	3059	HB2	LEU	X	391	59.784	92.743	134.989	1.00	0.00	H
ATOM	3060	HB3	LEU	X	391	59.706	91.182	134.366	1.00	0.00	H
ATOM	3061	CG	LEU	X	391	58.451	92.551	133.227	1.00	0.00	C
ATOM	3062	HG	LEU	X	391	57.782	93.403	133.337	1.00	0.00	H
ATOM	3063	CD1	LEU	X	391	59.516	93.135	132.262	1.00	0.00	C
ATOM	3064	HD11	LEU	X	391	59.124	93.472	131.302	1.00	0.00	H
ATOM	3065	HD12	LEU	X	391	59.902	94.022	132.763	1.00	0.00	H
ATOM	3066	HD13	LEU	X	391	60.330	92.414	132.175	1.00	0.00	H
ATOM	3067	CD2	LEU	X	391	57.613	91.454	132.635	1.00	0.00	C
ATOM	3068	HD21	LEU	X	391	58.115	90.545	132.304	1.00	0.00	H
ATOM	3069	HD22	LEU	X	391	56.750	91.206	133.251	1.00	0.00	H
ATOM	3070	HD23	LEU	X	391	57.126	91.817	131.731	1.00	0.00	H
ATOM	3071	C	LEU	X	391	58.470	90.822	136.655	1.00	0.00	C
ATOM	3072	O	LEU	X	391	57.804	89.801	136.777	1.00	0.00	O
ATOM	3073	N	GLN	X	392	59.538	91.097	137.375	1.00	0.00	N
ATOM	3074	H	GLN	X	392	60.122	91.893	137.161	1.00	0.00	H
ATOM	3075	CA	GLN	X	392	60.023	90.301	138.616	1.00	0.00	C
ATOM	3076	HA	GLN	X	392	60.228	89.250	138.403	1.00	0.00	H
ATOM	3077	CB	GLN	X	392	61.332	91.010	139.063	1.00	0.00	C
ATOM	3078	HB2	GLN	X	392	62.063	90.926	138.258	1.00	0.00	H
ATOM	3079	HB3	GLN	X	392	61.054	92.056	139.192	1.00	0.00	H
ATOM	3080	CG	GLN	X	392	61.950	90.509	140.361	1.00	0.00	C
ATOM	3081	HG2	GLN	X	392	62.818	91.163	140.425	1.00	0.00	H
ATOM	3082	HG3	GLN	X	392	61.240	90.656	141.175	1.00	0.00	H
ATOM	3083	CD	GLN	X	392	62.358	89.065	140.387	1.00	0.00	C
ATOM	3084	OE1	GLN	X	392	62.773	88.396	139.436	1.00	0.00	O
ATOM	3085	NE2	GLN	X	392	62.393	88.383	141.498	1.00	0.00	N
ATOM	3086	HE21	GLN	X	392	62.594	87.405	141.342	1.00	0.00	H
ATOM	3087	HE22	GLN	X	392	62.161	88.744	142.411	1.00	0.00	H
ATOM	3088	C	GLN	X	392	58.921	90.279	139.710	1.00	0.00	C
ATOM	3089	O	GLN	X	392	58.880	89.290	140.422	1.00	0.00	O
ATOM	3090	N	GLY	X	393	58.000	91.201	139.797	1.00	0.00	N
ATOM	3091	H	GLY	X	393	58.210	92.018	139.241	1.00	0.00	H
ATOM	3092	CA	GLY	X	393	56.931	91.203	140.826	1.00	0.00	C
ATOM	3093	HA2	GLY	X	393	56.198	91.953	140.527	1.00	0.00	H
ATOM	3094	HA3	GLY	X	393	56.525	90.208	141.007	1.00	0.00	H
ATOM	3095	C	GLY	X	393	57.483	91.731	142.137	1.00	0.00	C
ATOM	3096	O	GLY	X	393	56.782	91.323	143.172	1.00	0.00	O
ATOM	3097	N	ASN	X	394	58.587	92.477	142.214	1.00	0.00	N
ATOM	3098	H	ASN	X	394	59.098	92.626	141.357	1.00	0.00	H
ATOM	3099	CA	ASN	X	394	58.901	93.309	143.402	1.00	0.00	C
ATOM	3100	HA	ASN	X	394	59.057	92.716	144.302	1.00	0.00	H
ATOM	3101	CB	ASN	X	394	60.209	93.995	143.260	1.00	0.00	C
ATOM	3102	HB2	ASN	X	394	60.309	94.436	142.268	1.00	0.00	H
ATOM	3103	HB3	ASN	X	394	60.240	94.741	144.054	1.00	0.00	H
ATOM	3104	CG	ASN	X	394	61.439	93.161	143.462	1.00	0.00	C
ATOM	3105	OD1	ASN	X	394	61.519	92.270	144.244	1.00	0.00	O
ATOM	3106	ND2	ASN	X	394	62.485	93.494	142.665	1.00	0.00	N
ATOM	3107	HD21	ASN	X	394	63.343	92.960	142.703	1.00	0.00	H
ATOM	3108	HD22	ASN	X	394	62.441	94.398	142.217	1.00	0.00	H
ATOM	3109	C	ASN	X	394	57.931	94.432	143.596	1.00	0.00	C
ATOM	3110	O	ASN	X	394	57.708	94.932	144.742	1.00	0.00	O
ATOM	3111	N	LEU	X	395	57.171	94.788	142.583	1.00	0.00	N
ATOM	3112	H	LEU	X	395	57.383	94.499	141.639	1.00	0.00	H
ATOM	3113	CA	LEU	X	395	56.118	95.802	142.534	1.00	0.00	C
ATOM	3114	HA	LEU	X	395	55.969	96.205	143.536	1.00	0.00	H

ATOM	3115	CB	LEU	X	395	56.552	96.936	141.515	1.00	0.00	C
ATOM	3116	HB2	LEU	X	395	56.942	96.443	140.624	1.00	0.00	H
ATOM	3117	HB3	LEU	X	395	55.697	97.536	141.209	1.00	0.00	H
ATOM	3118	CG	LEU	X	395	57.621	97.877	142.051	1.00	0.00	C
ATOM	3119	HG	LEU	X	395	58.484	97.306	142.393	1.00	0.00	H
ATOM	3120	CD1	LEU	X	395	57.989	98.828	140.911	1.00	0.00	C
ATOM	3121	HD11	LEU	X	395	57.138	99.285	140.404	1.00	0.00	H
ATOM	3122	HD12	LEU	X	395	58.602	99.606	141.369	1.00	0.00	H
ATOM	3123	HD13	LEU	X	395	58.671	98.428	140.162	1.00	0.00	H
ATOM	3124	CD2	LEU	X	395	57.114	98.710	143.183	1.00	0.00	C
ATOM	3125	HD21	LEU	X	395	56.069	98.986	143.047	1.00	0.00	H
ATOM	3126	HD22	LEU	X	395	57.159	98.161	144.123	1.00	0.00	H
ATOM	3127	HD23	LEU	X	395	57.706	99.614	143.318	1.00	0.00	H
ATOM	3128	C	LEU	X	395	54.833	95.141	142.070	1.00	0.00	C
ATOM	3129	O	LEU	X	395	54.845	94.394	141.095	1.00	0.00	O
ATOM	3130	N	LEU	X	396	53.707	95.543	142.713	1.00	0.00	N
ATOM	3131	H	LEU	X	396	53.863	96.125	143.525	1.00	0.00	H
ATOM	3132	CA	LEU	X	396	52.353	95.016	142.637	1.00	0.00	C
ATOM	3133	HA	LEU	X	396	51.929	95.111	143.636	1.00	0.00	H
ATOM	3134	CB	LEU	X	396	51.544	95.856	141.614	1.00	0.00	C
ATOM	3135	HB2	LEU	X	396	52.006	95.607	140.660	1.00	0.00	H
ATOM	3136	HB3	LEU	X	396	50.544	95.425	141.582	1.00	0.00	H
ATOM	3137	CG	LEU	X	396	51.303	97.364	141.709	1.00	0.00	C
ATOM	3138	HG	LEU	X	396	52.348	97.672	141.714	1.00	0.00	H
ATOM	3139	CD1	LEU	X	396	50.724	97.819	140.371	1.00	0.00	C
ATOM	3140	HD11	LEU	X	396	50.469	98.878	140.361	1.00	0.00	H
ATOM	3141	HD12	LEU	X	396	51.460	97.682	139.579	1.00	0.00	H
ATOM	3142	HD13	LEU	X	396	49.763	97.313	140.262	1.00	0.00	H
ATOM	3143	CD2	LEU	X	396	50.497	97.678	142.940	1.00	0.00	C
ATOM	3144	HD21	LEU	X	396	49.470	97.323	142.834	1.00	0.00	H
ATOM	3145	HD22	LEU	X	396	50.926	97.320	143.876	1.00	0.00	H
ATOM	3146	HD23	LEU	X	396	50.471	98.765	143.002	1.00	0.00	H
ATOM	3147	C	LEU	X	396	52.391	93.431	142.440	1.00	0.00	C
ATOM	3148	O	LEU	X	396	52.041	92.900	141.359	1.00	0.00	O
ATOM	3149	N	LYS	X	397	52.976	92.678	143.386	1.00	0.00	N
ATOM	3150	H	LYS	X	397	53.245	93.217	144.197	1.00	0.00	H
ATOM	3151	CA	LYS	X	397	53.000	91.216	143.413	1.00	0.00	C
ATOM	3152	HA	LYS	X	397	53.686	90.929	142.616	1.00	0.00	H
ATOM	3153	CB	LYS	X	397	53.546	90.651	144.800	1.00	0.00	C
ATOM	3154	HB2	LYS	X	397	54.630	90.668	144.918	1.00	0.00	H
ATOM	3155	HB3	LYS	X	397	53.137	91.191	145.653	1.00	0.00	H
ATOM	3156	CG	LYS	X	397	53.107	89.136	145.027	1.00	0.00	C
ATOM	3157	HG2	LYS	X	397	52.040	88.973	145.178	1.00	0.00	H
ATOM	3158	HG3	LYS	X	397	53.442	88.606	144.137	1.00	0.00	H
ATOM	3159	CD	LYS	X	397	53.846	88.420	146.209	1.00	0.00	C
ATOM	3160	HD2	LYS	X	397	54.895	88.278	145.948	1.00	0.00	H
ATOM	3161	HD3	LYS	X	397	53.895	89.019	147.118	1.00	0.00	H
ATOM	3162	CE	LYS	X	397	53.217	87.040	146.392	1.00	0.00	C
ATOM	3163	HE2	LYS	X	397	53.565	86.753	147.383	1.00	0.00	H
ATOM	3164	HE3	LYS	X	397	52.133	87.102	146.499	1.00	0.00	H
ATOM	3165	NZ	LYS	X	397	53.726	86.075	145.400	1.00	0.00	N
ATOM	3166	HZ1	LYS	X	397	54.735	86.042	145.379	1.00	0.00	H
ATOM	3167	HZ2	LYS	X	397	53.396	85.135	145.570	1.00	0.00	H
ATOM	3168	HZ3	LYS	X	397	53.543	86.331	144.440	1.00	0.00	H
ATOM	3169	C	LYS	X	397	51.554	90.780	143.211	1.00	0.00	C
ATOM	3170	O	LYS	X	397	50.635	91.333	143.825	1.00	0.00	O
ATOM	3171	N	ASN	X	398	51.383	89.703	142.436	1.00	0.00	N
ATOM	3172	H	ASN	X	398	52.191	89.364	141.937	1.00	0.00	H
ATOM	3173	CA	ASN	X	398	50.091	89.220	142.005	1.00	0.00	C
ATOM	3174	HA	ASN	X	398	50.171	88.382	141.312	1.00	0.00	H
ATOM	3175	CB	ASN	X	398	49.336	88.492	143.102	1.00	0.00	C
ATOM	3176	HB2	ASN	X	398	49.105	89.254	143.848	1.00	0.00	H
ATOM	3177	HB3	ASN	X	398	48.384	88.078	142.773	1.00	0.00	H
ATOM	3178	CG	ASN	X	398	49.958	87.317	143.763	1.00	0.00	C
ATOM	3179	OD1	ASN	X	398	50.472	86.391	143.153	1.00	0.00	O
ATOM	3180	ND2	ASN	X	398	49.788	87.167	145.077	1.00	0.00	N
ATOM	3181	HD21	ASN	X	398	49.804	86.246	145.495	1.00	0.00	H
ATOM	3182	HD22	ASN	X	398	49.302	87.923	145.536	1.00	0.00	H
ATOM	3183	C	ASN	X	398	49.220	90.130	141.069	1.00	0.00	C
ATOM	3184	O	ASN	X	398	48.218	89.663	140.497	1.00	0.00	O
ATOM	3185	N	ALA	X	399	49.645	91.403	140.728	1.00	0.00	N
ATOM	3186	H	ALA	X	399	50.488	91.732	141.174	1.00	0.00	H
ATOM	3187	CA	ALA	X	399	49.073	92.116	139.602	1.00	0.00	C
ATOM	3188	HA	ALA	X	399	48.010	92.301	139.762	1.00	0.00	H
ATOM	3189	CB	ALA	X	399	49.790	93.384	139.345	1.00	0.00	C
ATOM	3190	HB1	ALA	X	399	50.799	93.202	138.973	1.00	0.00	H
ATOM	3191	HB2	ALA	X	399	49.141	93.992	138.715	1.00	0.00	H
ATOM	3192	HB3	ALA	X	399	49.675	93.975	140.253	1.00	0.00	H
ATOM	3193	C	ALA	X	399	49.339	91.332	138.292	1.00	0.00	C
ATOM	3194	O	ALA	X	399	50.528	91.036	138.000	1.00	0.00	O
ATOM	3195	N	ARG	X	400	48.347	91.132	137.448	1.00	0.00	N
ATOM	3196	H	ARG	X	400	47.460	91.566	137.652	1.00	0.00	H

ATOM	3197	CA	ARG	X	400	48.431	90.461	136.115	1.00	0.00	C
ATOM	3198	HA	ARG	X	400	49.343	89.880	136.257	1.00	0.00	H
ATOM	3199	CB	ARG	X	400	47.242	89.604	135.677	1.00	0.00	C
ATOM	3200	HB2	ARG	X	400	46.379	90.222	135.425	1.00	0.00	H
ATOM	3201	HB3	ARG	X	400	47.460	89.187	134.695	1.00	0.00	H
ATOM	3202	CG	ARG	X	400	46.740	88.561	136.600	1.00	0.00	C
ATOM	3203	HG2	ARG	X	400	46.270	89.029	137.464	1.00	0.00	H
ATOM	3204	HG3	ARG	X	400	46.048	87.826	136.190	1.00	0.00	H
ATOM	3205	CD	ARG	X	400	47.931	87.651	137.156	1.00	0.00	C
ATOM	3206	HD2	ARG	X	400	48.637	87.342	136.385	1.00	0.00	H
ATOM	3207	HD3	ARG	X	400	48.450	88.233	137.917	1.00	0.00	H
ATOM	3208	NE	ARG	X	400	47.457	86.454	137.815	1.00	0.00	N
ATOM	3209	HE	ARG	X	400	47.428	85.649	137.205	1.00	0.00	H
ATOM	3210	CZ	ARG	X	400	46.827	86.305	138.960	1.00	0.00	C
ATOM	3211	NH1	ARG	X	400	46.601	87.262	139.813	1.00	0.00	N
ATOM	3212	HH11	ARG	X	400	47.042	88.162	139.688	1.00	0.00	H
ATOM	3213	HH12	ARG	X	400	45.920	87.084	140.536	1.00	0.00	H
ATOM	3214	NH2	ARG	X	400	46.289	85.245	139.268	1.00	0.00	N
ATOM	3215	HH21	ARG	X	400	46.220	84.450	138.648	1.00	0.00	H
ATOM	3216	HH22	ARG	X	400	45.884	85.274	140.193	1.00	0.00	H
ATOM	3217	C	ARG	X	400	48.870	91.409	135.002	1.00	0.00	C
ATOM	3218	O	ARG	X	400	48.425	92.587	134.988	1.00	0.00	O
ATOM	3219	N	LYS	X	401	49.755	91.012	134.095	1.00	0.00	N
ATOM	3220	H	LYS	X	401	50.071	90.066	134.255	1.00	0.00	H
ATOM	3221	CA	LYS	X	401	50.518	91.754	133.115	1.00	0.00	C
ATOM	3222	HA	LYS	X	401	50.019	92.724	133.114	1.00	0.00	H
ATOM	3223	CB	LYS	X	401	51.956	91.784	133.631	1.00	0.00	C
ATOM	3224	HB2	LYS	X	401	52.280	90.773	133.880	1.00	0.00	H
ATOM	3225	HB3	LYS	X	401	52.595	92.121	132.814	1.00	0.00	H
ATOM	3226	CG	LYS	X	401	52.259	92.610	134.852	1.00	0.00	C
ATOM	3227	HG2	LYS	X	401	52.172	93.679	134.657	1.00	0.00	H
ATOM	3228	HG3	LYS	X	401	51.536	92.383	135.635	1.00	0.00	H
ATOM	3229	CD	LYS	X	401	53.684	92.418	135.399	1.00	0.00	C
ATOM	3230	HD2	LYS	X	401	54.400	92.410	134.576	1.00	0.00	H
ATOM	3231	HD3	LYS	X	401	53.928	93.268	136.037	1.00	0.00	H
ATOM	3232	CE	LYS	X	401	53.904	91.112	136.083	1.00	0.00	C
ATOM	3233	HE2	LYS	X	401	53.313	90.335	135.598	1.00	0.00	H
ATOM	3234	HE3	LYS	X	401	54.969	90.879	136.091	1.00	0.00	H
ATOM	3235	NZ	LYS	X	401	53.428	91.182	137.459	1.00	0.00	N
ATOM	3236	HZ1	LYS	X	401	53.893	91.959	137.906	1.00	0.00	H
ATOM	3237	HZ2	LYS	X	401	52.435	91.176	137.643	1.00	0.00	H
ATOM	3238	HZ3	LYS	X	401	53.807	90.371	137.928	1.00	0.00	H
ATOM	3239	C	LYS	X	401	50.303	91.074	131.796	1.00	0.00	C
ATOM	3240	O	LYS	X	401	50.398	89.804	131.649	1.00	0.00	O
ATOM	3241	N	VAL	X	402	50.044	91.915	130.787	1.00	0.00	N
ATOM	3242	H	VAL	X	402	49.924	92.915	130.861	1.00	0.00	H
ATOM	3243	CA	VAL	X	402	49.867	91.428	129.417	1.00	0.00	C
ATOM	3244	HA	VAL	X	402	50.237	90.403	129.413	1.00	0.00	H
ATOM	3245	CB	VAL	X	402	48.413	91.374	128.919	1.00	0.00	C
ATOM	3246	HB	VAL	X	402	47.922	92.304	129.203	1.00	0.00	H
ATOM	3247	CG1	VAL	X	402	48.224	91.070	127.443	1.00	0.00	C
ATOM	3248	HG11	VAL	X	402	48.665	91.735	126.703	1.00	0.00	H
ATOM	3249	HG12	VAL	X	402	48.629	90.077	127.250	1.00	0.00	H
ATOM	3250	HG13	VAL	X	402	47.184	90.996	127.128	1.00	0.00	H
ATOM	3251	CG2	VAL	X	402	47.570	90.344	129.585	1.00	0.00	C
ATOM	3252	HG21	VAL	X	402	46.582	90.642	129.234	1.00	0.00	H
ATOM	3253	HG22	VAL	X	402	47.899	89.353	129.272	1.00	0.00	H
ATOM	3254	HG23	VAL	X	402	47.548	90.330	130.676	1.00	0.00	H
ATOM	3255	C	VAL	X	402	50.683	92.379	128.613	1.00	0.00	C
ATOM	3256	O	VAL	X	402	50.428	93.571	128.593	1.00	0.00	O
ATOM	3257	N	LEU	X	403	51.602	91.934	127.852	1.00	0.00	N
ATOM	3258	H	LEU	X	403	51.607	90.928	127.751	1.00	0.00	H
ATOM	3259	CA	LEU	X	403	52.484	92.732	127.028	1.00	0.00	C
ATOM	3260	HA	LEU	X	403	52.223	93.782	127.161	1.00	0.00	H
ATOM	3261	CB	LEU	X	403	53.973	92.485	127.456	1.00	0.00	C
ATOM	3262	HB2	LEU	X	403	54.186	91.432	127.641	1.00	0.00	H
ATOM	3263	HB3	LEU	X	403	54.604	92.770	126.615	1.00	0.00	H
ATOM	3264	CG	LEU	X	403	54.504	93.260	128.711	1.00	0.00	C
ATOM	3265	HG	LEU	X	403	54.659	94.311	128.470	1.00	0.00	H
ATOM	3266	CD1	LEU	X	403	53.788	93.097	130.114	1.00	0.00	C
ATOM	3267	HD11	LEU	X	403	53.387	92.084	130.124	1.00	0.00	H
ATOM	3268	HD12	LEU	X	403	54.453	93.391	130.926	1.00	0.00	H
ATOM	3269	HD13	LEU	X	403	52.908	93.721	130.278	1.00	0.00	H
ATOM	3270	CD2	LEU	X	403	55.926	92.777	129.010	1.00	0.00	C
ATOM	3271	HD21	LEU	X	403	56.300	93.562	129.665	1.00	0.00	H
ATOM	3272	HD22	LEU	X	403	55.804	91.869	129.603	1.00	0.00	H
ATOM	3273	HD23	LEU	X	403	56.603	92.612	128.171	1.00	0.00	H
ATOM	3274	C	LEU	X	403	52.327	92.283	125.554	1.00	0.00	C
ATOM	3275	O	LEU	X	403	52.001	91.124	125.303	1.00	0.00	O
ATOM	3276	N	THR	X	404	52.530	93.210	124.556	1.00	0.00	N
ATOM	3277	H	THR	X	404	52.637	94.199	124.730	1.00	0.00	H
ATOM	3278	CA	THR	X	404	52.584	92.940	123.126	1.00	0.00	C

ATOM	3279	HA	THR	X	404	52.359	91.883	122.986	1.00	0.00	H
ATOM	3280	CB	THR	X	404	51.483	93.662	122.346	1.00	0.00	C
ATOM	3281	HB	THR	X	404	51.454	93.423	121.282	1.00	0.00	H
ATOM	3282	CG2	THR	X	404	50.047	93.350	122.804	1.00	0.00	C
ATOM	3283	HG21	THR	X	404	49.849	92.279	122.736	1.00	0.00	H
ATOM	3284	HG22	THR	X	404	49.874	93.517	123.866	1.00	0.00	H
ATOM	3285	HG23	THR	X	404	49.290	93.891	122.235	1.00	0.00	H
ATOM	3286	OG1	THR	X	404	51.862	94.982	122.441	1.00	0.00	O
ATOM	3287	HG1	THR	X	404	51.175	95.551	122.085	1.00	0.00	H
ATOM	3288	C	THR	X	404	53.975	93.231	122.530	1.00	0.00	C
ATOM	3289	O	THR	X	404	54.705	94.195	122.838	1.00	0.00	O
ATOM	3290	N	SER	X	405	54.293	92.429	121.509	1.00	0.00	N
ATOM	3291	H	SER	X	405	53.707	91.639	121.279	1.00	0.00	H
ATOM	3292	CA	SER	X	405	55.562	92.456	120.852	1.00	0.00	C
ATOM	3293	HA	SER	X	405	55.850	93.506	120.822	1.00	0.00	H
ATOM	3294	CB	SER	X	405	56.606	91.680	121.662	1.00	0.00	C
ATOM	3295	HB2	SER	X	405	56.666	92.109	122.663	1.00	0.00	H
ATOM	3296	HB3	SER	X	405	56.376	90.618	121.582	1.00	0.00	H
ATOM	3297	OG	SER	X	405	57.960	91.859	121.095	1.00	0.00	O
ATOM	3298	HG	SER	X	405	58.548	92.039	121.833	1.00	0.00	H
ATOM	3299	C	SER	X	405	55.563	92.003	119.364	1.00	0.00	C
ATOM	3300	O	SER	X	405	54.571	91.517	118.837	1.00	0.00	O
ATOM	3301	N	ARG	X	406	56.677	92.137	118.633	1.00	0.00	N
ATOM	3302	H	ARG	X	406	57.480	92.353	119.206	1.00	0.00	H
ATOM	3303	CA	ARG	X	406	56.868	91.682	117.289	1.00	0.00	C
ATOM	3304	HA	ARG	X	406	55.944	91.418	116.771	1.00	0.00	H
ATOM	3305	CB	ARG	X	406	57.475	92.859	116.467	1.00	0.00	C
ATOM	3306	HB2	ARG	X	406	58.292	93.231	117.082	1.00	0.00	H
ATOM	3307	HB3	ARG	X	406	57.827	92.354	115.567	1.00	0.00	H
ATOM	3308	CG	ARG	X	406	56.376	93.872	116.072	1.00	0.00	C
ATOM	3309	HG2	ARG	X	406	55.676	93.361	115.411	1.00	0.00	H
ATOM	3310	HG3	ARG	X	406	55.837	94.296	116.919	1.00	0.00	H
ATOM	3311	CD	ARG	X	406	57.128	95.065	115.396	1.00	0.00	C
ATOM	3312	HD2	ARG	X	406	56.539	95.956	115.178	1.00	0.00	H
ATOM	3313	HD3	ARG	X	406	57.948	95.335	116.061	1.00	0.00	H
ATOM	3314	NE	ARG	X	406	57.641	94.704	114.064	1.00	0.00	N
ATOM	3315	HE	ARG	X	406	57.509	93.725	113.855	1.00	0.00	H
ATOM	3316	CZ	ARG	X	406	58.402	95.455	113.262	1.00	0.00	C
ATOM	3317	NH1	ARG	X	406	58.715	96.631	113.694	1.00	0.00	N
ATOM	3318	HH11	ARG	X	406	58.399	96.949	114.600	1.00	0.00	H
ATOM	3319	HH12	ARG	X	406	59.412	97.183	113.219	1.00	0.00	H
ATOM	3320	NH2	ARG	X	406	58.744	94.992	112.044	1.00	0.00	N
ATOM	3321	HH21	ARG	X	406	58.441	94.050	111.841	1.00	0.00	H
ATOM	3322	HH22	ARG	X	406	59.255	95.538	111.366	1.00	0.00	H
ATOM	3323	C	ARG	X	406	57.760	90.381	117.243	1.00	0.00	C
ATOM	3324	O	ARG	X	406	58.535	90.226	118.220	1.00	0.00	O
ATOM	3325	N	PRO	X	407	57.700	89.502	116.219	1.00	0.00	N
ATOM	3326	CD	PRO	X	407	56.876	89.712	115.103	1.00	0.00	C
ATOM	3327	HD2	PRO	X	407	57.172	90.647	114.629	1.00	0.00	H
ATOM	3328	HD3	PRO	X	407	55.874	89.851	115.509	1.00	0.00	H
ATOM	3329	CG	PRO	X	407	57.027	88.429	114.341	1.00	0.00	C
ATOM	3330	HG2	PRO	X	407	56.768	88.565	113.292	1.00	0.00	H
ATOM	3331	HG3	PRO	X	407	56.397	87.750	114.917	1.00	0.00	H
ATOM	3332	CB	PRO	X	407	58.538	88.033	114.595	1.00	0.00	C
ATOM	3333	HB2	PRO	X	407	59.141	88.699	113.977	1.00	0.00	H
ATOM	3334	HB3	PRO	X	407	58.759	86.986	114.393	1.00	0.00	H
ATOM	3335	CA	PRO	X	407	58.615	88.322	116.074	1.00	0.00	C
ATOM	3336	HA	PRO	X	407	58.197	87.496	116.649	1.00	0.00	H
ATOM	3337	C	PRO	X	407	60.135	88.384	116.468	1.00	0.00	C
ATOM	3338	O	PRO	X	407	60.579	87.393	117.106	1.00	0.00	O
ATOM	3339	N	ASP	X	408	60.771	89.463	116.059	1.00	0.00	N
ATOM	3340	H	ASP	X	408	60.213	90.122	115.537	1.00	0.00	H
ATOM	3341	CA	ASP	X	408	62.225	89.624	116.263	1.00	0.00	C
ATOM	3342	HA	ASP	X	408	62.668	88.630	116.306	1.00	0.00	H
ATOM	3343	CB	ASP	X	408	62.930	90.254	115.013	1.00	0.00	C
ATOM	3344	HB2	ASP	X	408	62.803	91.337	115.027	1.00	0.00	H
ATOM	3345	HB3	ASP	X	408	63.994	90.088	115.189	1.00	0.00	H
ATOM	3346	CG	ASP	X	408	62.485	89.863	113.660	1.00	0.00	C
ATOM	3347	OD1	ASP	X	408	62.999	88.882	113.193	1.00	0.00	O
ATOM	3348	OD2	ASP	X	408	61.490	90.319	113.026	1.00	0.00	O
ATOM	3349	C	ASP	X	408	62.566	90.382	117.548	1.00	0.00	C
ATOM	3350	O	ASP	X	408	63.718	90.309	117.936	1.00	0.00	O
ATOM	3351	N	ALA	X	409	61.734	91.272	118.109	1.00	0.00	N
ATOM	3352	H	ALA	X	409	60.783	91.415	117.800	1.00	0.00	H
ATOM	3353	CA	ALA	X	409	62.027	91.985	119.380	1.00	0.00	C
ATOM	3354	HA	ALA	X	409	63.086	92.241	119.396	1.00	0.00	H
ATOM	3355	CB	ALA	X	409	61.171	93.209	119.324	1.00	0.00	C
ATOM	3356	HB1	ALA	X	409	61.266	93.720	118.365	1.00	0.00	H
ATOM	3357	HB2	ALA	X	409	60.116	92.949	119.412	1.00	0.00	H
ATOM	3358	HB3	ALA	X	409	61.432	93.930	120.098	1.00	0.00	H
ATOM	3359	C	ALA	X	409	61.813	91.192	120.634	1.00	0.00	C
ATOM	3360	O	ALA	X	409	62.198	91.580	121.763	1.00	0.00	O

ATOM	3361	N	VAL	X	410	61.096	90.033	120.525	1.00	0.00	N
ATOM	3362	H	VAL	X	410	60.513	89.909	119.710	1.00	0.00	H
ATOM	3363	CA	VAL	X	410	60.986	89.042	121.674	1.00	0.00	C
ATOM	3364	HA	VAL	X	410	60.617	89.663	122.490	1.00	0.00	H
ATOM	3365	CB	VAL	X	410	59.925	87.952	121.570	1.00	0.00	C
ATOM	3366	HB	VAL	X	410	58.938	88.415	121.573	1.00	0.00	H
ATOM	3367	CG1	VAL	X	410	59.951	87.168	120.243	1.00	0.00	C
ATOM	3368	HG11	VAL	X	410	59.670	87.897	119.483	1.00	0.00	H
ATOM	3369	HG12	VAL	X	410	60.979	86.839	120.083	1.00	0.00	H
ATOM	3370	HG13	VAL	X	410	59.293	86.302	120.316	1.00	0.00	H
ATOM	3371	CG2	VAL	X	410	59.891	86.986	122.754	1.00	0.00	C
ATOM	3372	HG21	VAL	X	410	59.763	87.557	123.674	1.00	0.00	H
ATOM	3373	HG22	VAL	X	410	59.036	86.312	122.727	1.00	0.00	H
ATOM	3374	HG23	VAL	X	410	60.803	86.393	122.822	1.00	0.00	H
ATOM	3375	C	VAL	X	410	62.369	88.528	122.037	1.00	0.00	C
ATOM	3376	O	VAL	X	410	63.179	88.315	121.125	1.00	0.00	O
ATOM	3377	N	SER	X	411	62.619	88.295	123.320	1.00	0.00	N
ATOM	3378	H	SER	X	411	61.914	88.345	124.041	1.00	0.00	H
ATOM	3379	CA	SER	X	411	63.995	88.153	123.821	1.00	0.00	C
ATOM	3380	HA	SER	X	411	64.580	87.844	122.954	1.00	0.00	H
ATOM	3381	CB	SER	X	411	64.365	89.543	124.363	1.00	0.00	C
ATOM	3382	HB2	SER	X	411	65.446	89.613	124.488	1.00	0.00	H
ATOM	3383	HB3	SER	X	411	64.125	90.355	123.677	1.00	0.00	H
ATOM	3384	OG	SER	X	411	63.788	89.774	125.680	1.00	0.00	O
ATOM	3385	HG	SER	X	411	63.821	90.731	125.729	1.00	0.00	H
ATOM	3386	C	SER	X	411	64.176	87.149	124.903	1.00	0.00	C
ATOM	3387	O	SER	X	411	63.204	86.799	125.619	1.00	0.00	O
ATOM	3388	N	ALA	X	412	65.416	86.652	125.078	1.00	0.00	N
ATOM	3389	H	ALA	X	412	66.080	86.868	124.349	1.00	0.00	H
ATOM	3390	CA	ALA	X	412	65.868	85.803	126.130	1.00	0.00	C
ATOM	3391	HA	ALA	X	412	65.274	84.889	126.139	1.00	0.00	H
ATOM	3392	CB	ALA	X	412	67.410	85.592	125.929	1.00	0.00	C
ATOM	3393	HB1	ALA	X	412	67.809	84.807	126.570	1.00	0.00	H
ATOM	3394	HB2	ALA	X	412	67.553	85.210	124.919	1.00	0.00	H
ATOM	3395	HB3	ALA	X	412	67.952	86.539	125.935	1.00	0.00	H
ATOM	3396	C	ALA	X	412	65.554	86.316	127.634	1.00	0.00	C
ATOM	3397	O	ALA	X	412	65.204	85.471	128.460	1.00	0.00	O
ATOM	3398	N	PHE	X	413	65.712	87.605	127.879	1.00	0.00	N
ATOM	3399	H	PHE	X	413	66.046	88.140	127.091	1.00	0.00	H
ATOM	3400	CA	PHE	X	413	65.397	88.336	129.173	1.00	0.00	C
ATOM	3401	HA	PHE	X	413	65.902	87.879	130.025	1.00	0.00	H
ATOM	3402	CB	PHE	X	413	65.959	89.738	129.080	1.00	0.00	C
ATOM	3403	HB2	PHE	X	413	67.024	89.632	129.281	1.00	0.00	H
ATOM	3404	HB3	PHE	X	413	65.833	90.135	128.072	1.00	0.00	H
ATOM	3405	CG	PHE	X	413	65.207	90.730	130.051	1.00	0.00	C
ATOM	3406	CD1	PHE	X	413	65.608	90.985	131.383	1.00	0.00	C
ATOM	3407	HD1	PHE	X	413	66.491	90.557	131.836	1.00	0.00	H
ATOM	3408	CE1	PHE	X	413	64.822	91.837	132.203	1.00	0.00	C
ATOM	3409	HE1	PHE	X	413	65.157	92.094	133.197	1.00	0.00	H
ATOM	3410	CZ	PHE	X	413	63.648	92.401	131.682	1.00	0.00	C
ATOM	3411	HZ	PHE	X	413	63.041	93.095	132.245	1.00	0.00	H
ATOM	3412	CE2	PHE	X	413	63.283	92.174	130.314	1.00	0.00	C
ATOM	3413	HE2	PHE	X	413	62.433	92.640	129.839	1.00	0.00	H
ATOM	3414	CD2	PHE	X	413	64.035	91.344	129.494	1.00	0.00	C
ATOM	3415	HD2	PHE	X	413	63.780	91.322	128.446	1.00	0.00	H
ATOM	3416	C	PHE	X	413	63.883	88.257	129.441	1.00	0.00	C
ATOM	3417	O	PHE	X	413	63.549	87.817	130.547	1.00	0.00	O
ATOM	3418	N	LEU	X	414	63.024	88.664	128.439	1.00	0.00	N
ATOM	3419	H	LEU	X	414	63.355	88.938	127.525	1.00	0.00	H
ATOM	3420	CA	LEU	X	414	61.611	88.832	128.684	1.00	0.00	C
ATOM	3421	HA	LEU	X	414	61.440	89.528	129.505	1.00	0.00	H
ATOM	3422	CB	LEU	X	414	61.043	89.503	127.431	1.00	0.00	C
ATOM	3423	HB2	LEU	X	414	61.619	90.409	127.245	1.00	0.00	H
ATOM	3424	HB3	LEU	X	414	61.135	88.905	126.524	1.00	0.00	H
ATOM	3425	CG	LEU	X	414	59.518	89.817	127.461	1.00	0.00	C
ATOM	3426	HG	LEU	X	414	58.913	88.911	127.522	1.00	0.00	H
ATOM	3427	CD1	LEU	X	414	59.174	90.684	128.640	1.00	0.00	C
ATOM	3428	HD11	LEU	X	414	59.613	91.681	128.679	1.00	0.00	H
ATOM	3429	HD12	LEU	X	414	58.101	90.823	128.508	1.00	0.00	H
ATOM	3430	HD13	LEU	X	414	59.297	90.129	129.570	1.00	0.00	H
ATOM	3431	CD2	LEU	X	414	59.093	90.569	126.161	1.00	0.00	C
ATOM	3432	HD21	LEU	X	414	59.427	89.855	125.410	1.00	0.00	H
ATOM	3433	HD22	LEU	X	414	58.026	90.752	126.022	1.00	0.00	H
ATOM	3434	HD23	LEU	X	414	59.605	91.528	126.078	1.00	0.00	H
ATOM	3435	C	LEU	X	414	60.937	87.461	128.887	1.00	0.00	C
ATOM	3436	O	LEU	X	414	60.031	87.334	129.669	1.00	0.00	O
ATOM	3437	N	ARG	X	415	61.441	86.443	128.229	1.00	0.00	N
ATOM	3438	H	ARG	X	415	62.247	86.702	127.679	1.00	0.00	H
ATOM	3439	CA	ARG	X	415	61.027	85.066	128.298	1.00	0.00	C
ATOM	3440	HA	ARG	X	415	59.943	85.106	128.197	1.00	0.00	H
ATOM	3441	CB	ARG	X	415	61.675	84.302	127.132	1.00	0.00	C
ATOM	3442	HB2	ARG	X	415	62.682	84.663	126.920	1.00	0.00	H

ATOM	3443	HB3	ARG	X	415	61.881	83.263	127.386	1.00	0.00	H
ATOM	3444	CG	ARG	X	415	60.818	84.462	125.858	1.00	0.00	C
ATOM	3445	HG2	ARG	X	415	59.848	83.973	125.941	1.00	0.00	H
ATOM	3446	HG3	ARG	X	415	60.640	85.508	125.612	1.00	0.00	H
ATOM	3447	CD	ARG	X	415	61.548	83.792	124.644	1.00	0.00	C
ATOM	3448	HD2	ARG	X	415	62.479	84.284	124.365	1.00	0.00	H
ATOM	3449	HD3	ARG	X	415	61.887	82.831	125.032	1.00	0.00	H
ATOM	3450	NE	ARG	X	415	60.723	83.462	123.417	1.00	0.00	N
ATOM	3451	HE	ARG	X	415	59.757	83.209	123.573	1.00	0.00	H
ATOM	3452	CZ	ARG	X	415	61.117	83.664	122.210	1.00	0.00	C
ATOM	3453	NH1	ARG	X	415	62.322	83.933	121.926	1.00	0.00	N
ATOM	3454	HH11	ARG	X	415	63.036	83.829	122.634	1.00	0.00	H
ATOM	3455	HH12	ARG	X	415	62.652	84.117	120.989	1.00	0.00	H
ATOM	3456	NH2	ARG	X	415	60.219	83.726	121.293	1.00	0.00	N
ATOM	3457	HH21	ARG	X	415	59.242	83.579	121.503	1.00	0.00	H
ATOM	3458	HH22	ARG	X	415	60.447	84.068	120.371	1.00	0.00	H
ATOM	3459	C	ARG	X	415	61.211	84.370	129.621	1.00	0.00	C
ATOM	3460	O	ARG	X	415	60.689	83.316	129.974	1.00	0.00	O
ATOM	3461	N	LYS	X	416	61.977	84.995	130.492	1.00	0.00	N
ATOM	3462	H	LYS	X	416	62.470	85.823	130.190	1.00	0.00	H
ATOM	3463	CA	LYS	X	416	62.282	84.714	131.930	1.00	0.00	C
ATOM	3464	HA	LYS	X	416	62.189	83.631	131.858	1.00	0.00	H
ATOM	3465	CB	LYS	X	416	63.632	85.244	132.422	1.00	0.00	C
ATOM	3466	HB2	LYS	X	416	64.201	85.569	131.552	1.00	0.00	H
ATOM	3467	HB3	LYS	X	416	63.580	86.129	133.054	1.00	0.00	H
ATOM	3468	CG	LYS	X	416	64.389	84.157	133.090	1.00	0.00	C
ATOM	3469	HG2	LYS	X	416	63.779	83.461	133.665	1.00	0.00	H
ATOM	3470	HG3	LYS	X	416	64.925	83.561	132.351	1.00	0.00	H
ATOM	3471	CD	LYS	X	416	65.340	84.783	134.104	1.00	0.00	C
ATOM	3472	HD2	LYS	X	416	65.857	83.957	134.594	1.00	0.00	H
ATOM	3473	HD3	LYS	X	416	66.066	85.320	133.494	1.00	0.00	H
ATOM	3474	CE	LYS	X	416	64.797	85.763	135.183	1.00	0.00	C
ATOM	3475	HE2	LYS	X	416	64.590	86.709	134.680	1.00	0.00	H
ATOM	3476	HE3	LYS	X	416	63.851	85.364	135.548	1.00	0.00	H
ATOM	3477	NZ	LYS	X	416	65.750	85.976	136.293	1.00	0.00	N
ATOM	3478	HZ1	LYS	X	416	65.299	86.661	136.883	1.00	0.00	H
ATOM	3479	HZ2	LYS	X	416	65.888	85.064	136.704	1.00	0.00	H
ATOM	3480	HZ3	LYS	X	416	66.627	86.383	136.002	1.00	0.00	H
ATOM	3481	C	LYS	X	416	61.122	85.043	132.938	1.00	0.00	C
ATOM	3482	O	LYS	X	416	61.312	84.647	134.093	1.00	0.00	O
ATOM	3483	N	TYR	X	417	60.059	85.773	132.579	1.00	0.00	N
ATOM	3484	H	TYR	X	417	59.964	85.977	131.595	1.00	0.00	H
ATOM	3485	CA	TYR	X	417	59.005	86.220	133.470	1.00	0.00	C
ATOM	3486	HA	TYR	X	417	59.160	85.815	134.470	1.00	0.00	H
ATOM	3487	CB	TYR	X	417	59.051	87.790	133.514	1.00	0.00	C
ATOM	3488	HB2	TYR	X	417	58.926	88.213	132.517	1.00	0.00	H
ATOM	3489	HB3	TYR	X	417	58.338	88.272	134.183	1.00	0.00	H
ATOM	3490	CG	TYR	X	417	60.432	88.366	133.978	1.00	0.00	C
ATOM	3491	CD1	TYR	X	417	61.279	89.060	133.118	1.00	0.00	C
ATOM	3492	HD1	TYR	X	417	60.945	89.272	132.113	1.00	0.00	H
ATOM	3493	CE1	TYR	X	417	62.509	89.430	133.496	1.00	0.00	C
ATOM	3494	HE1	TYR	X	417	63.161	89.936	132.799	1.00	0.00	H
ATOM	3495	CZ	TYR	X	417	63.013	89.005	134.805	1.00	0.00	C
ATOM	3496	OH	TYR	X	417	64.351	89.253	135.147	1.00	0.00	O
ATOM	3497	HH	TYR	X	417	64.698	88.955	135.991	1.00	0.00	H
ATOM	3498	CE2	TYR	X	417	62.132	88.323	135.698	1.00	0.00	C
ATOM	3499	HE2	TYR	X	417	62.327	88.203	136.753	1.00	0.00	H
ATOM	3500	CD2	TYR	X	417	60.832	87.971	135.244	1.00	0.00	C
ATOM	3501	HD2	TYR	X	417	60.181	87.404	135.895	1.00	0.00	H
ATOM	3502	C	TYR	X	417	57.612	85.694	133.034	1.00	0.00	C
ATOM	3503	O	TYR	X	417	56.560	86.032	133.626	1.00	0.00	O
ATOM	3504	N	VAL	X	418	57.582	84.942	131.903	1.00	0.00	N
ATOM	3505	H	VAL	X	418	58.456	84.594	131.535	1.00	0.00	H
ATOM	3506	CA	VAL	X	418	56.379	84.540	131.258	1.00	0.00	C
ATOM	3507	HA	VAL	X	418	55.517	84.993	131.749	1.00	0.00	H
ATOM	3508	CB	VAL	X	418	56.353	84.975	129.785	1.00	0.00	C
ATOM	3509	HB	VAL	X	418	55.305	84.908	129.494	1.00	0.00	H
ATOM	3510	CG1	VAL	X	418	56.618	86.434	129.627	1.00	0.00	C
ATOM	3511	HG11	VAL	X	418	55.883	86.961	130.235	1.00	0.00	H
ATOM	3512	HG12	VAL	X	418	57.622	86.788	129.862	1.00	0.00	H
ATOM	3513	HG13	VAL	X	418	56.518	86.665	128.567	1.00	0.00	H
ATOM	3514	CG2	VAL	X	418	57.129	84.078	128.789	1.00	0.00	C
ATOM	3515	HG21	VAL	X	418	57.025	84.425	127.761	1.00	0.00	H
ATOM	3516	HG22	VAL	X	418	58.173	84.069	129.103	1.00	0.00	H
ATOM	3517	HG23	VAL	X	418	56.739	83.063	128.714	1.00	0.00	H
ATOM	3518	C	VAL	X	418	55.947	83.078	131.511	1.00	0.00	C
ATOM	3519	O	VAL	X	418	56.739	82.189	131.287	1.00	0.00	O
ATOM	3520	N	ARG	X	419	54.642	82.860	131.795	1.00	0.00	N
ATOM	3521	H	ARG	X	419	54.035	83.667	131.786	1.00	0.00	H
ATOM	3522	CA	ARG	X	419	54.044	81.524	131.738	1.00	0.00	C
ATOM	3523	HA	ARG	X	419	54.754	80.810	132.154	1.00	0.00	H
ATOM	3524	CB	ARG	X	419	52.779	81.356	132.555	1.00	0.00	C

ATOM	3525	HB2	ARG	X	419	52.471	80.330	132.347	1.00	0.00	H
ATOM	3526	HB3	ARG	X	419	53.113	81.428	133.590	1.00	0.00	H
ATOM	3527	CG	ARG	X	419	51.633	82.364	132.513	1.00	0.00	C
ATOM	3528	HG2	ARG	X	419	51.979	83.302	132.950	1.00	0.00	H
ATOM	3529	HG3	ARG	X	419	51.465	82.446	131.439	1.00	0.00	H
ATOM	3530	CD	ARG	X	419	50.383	81.674	133.236	1.00	0.00	C
ATOM	3531	HD2	ARG	X	419	50.238	80.650	132.890	1.00	0.00	H
ATOM	3532	HD3	ARG	X	419	50.543	81.536	134.305	1.00	0.00	H
ATOM	3533	NE	ARG	X	419	49.102	82.491	133.043	1.00	0.00	N
ATOM	3534	HE	ARG	X	419	48.727	82.952	133.860	1.00	0.00	H
ATOM	3535	CZ	ARG	X	419	48.405	82.568	131.960	1.00	0.00	C
ATOM	3536	NH1	ARG	X	419	48.719	81.889	130.870	1.00	0.00	N
ATOM	3537	HH11	ARG	X	419	49.554	81.331	130.753	1.00	0.00	H
ATOM	3538	HH12	ARG	X	419	48.026	81.852	130.136	1.00	0.00	H
ATOM	3539	NH2	ARG	X	419	47.358	83.367	131.833	1.00	0.00	N
ATOM	3540	HH21	ARG	X	419	47.133	83.964	132.618	1.00	0.00	H
ATOM	3541	HH22	ARG	X	419	46.831	83.315	130.973	1.00	0.00	H
ATOM	3542	C	ARG	X	419	53.791	81.108	130.281	1.00	0.00	C
ATOM	3543	O	ARG	X	419	53.935	79.960	130.035	1.00	0.00	O
ATOM	3544	N	THR	X	420	53.282	82.005	129.414	1.00	0.00	N
ATOM	3545	H	THR	X	420	53.473	82.978	129.609	1.00	0.00	H
ATOM	3546	CA	THR	X	420	52.694	81.615	128.116	1.00	0.00	C
ATOM	3547	HA	THR	X	420	53.141	80.684	127.766	1.00	0.00	H
ATOM	3548	CB	THR	X	420	51.185	81.323	128.350	1.00	0.00	C
ATOM	3549	HB	THR	X	420	50.570	82.217	128.454	1.00	0.00	H
ATOM	3550	CG2	THR	X	420	50.649	80.510	127.154	1.00	0.00	C
ATOM	3551	HG21	THR	X	420	50.429	81.213	126.350	1.00	0.00	H
ATOM	3552	HG22	THR	X	420	51.354	79.715	126.914	1.00	0.00	H
ATOM	3553	HG23	THR	X	420	49.665	80.146	127.447	1.00	0.00	H
ATOM	3554	OG1	THR	X	420	50.932	80.534	129.494	1.00	0.00	O
ATOM	3555	HG1	THR	X	420	51.453	79.730	129.421	1.00	0.00	H
ATOM	3556	C	THR	X	420	52.826	82.710	126.959	1.00	0.00	C
ATOM	3557	O	THR	X	420	52.457	83.886	127.214	1.00	0.00	O
ATOM	3558	N	GLU	X	421	53.322	82.334	125.819	1.00	0.00	N
ATOM	3559	H	GLU	X	421	53.797	81.451	125.710	1.00	0.00	H
ATOM	3560	CA	GLU	X	421	53.519	83.254	124.696	1.00	0.00	C
ATOM	3561	HA	GLU	X	421	53.334	84.264	125.063	1.00	0.00	H
ATOM	3562	CB	GLU	X	421	54.949	83.190	124.301	1.00	0.00	C
ATOM	3563	HB2	GLU	X	421	55.514	83.366	125.216	1.00	0.00	H
ATOM	3564	HB3	GLU	X	421	55.292	82.204	123.985	1.00	0.00	H
ATOM	3565	CG	GLU	X	421	55.564	84.120	123.219	1.00	0.00	C
ATOM	3566	HG2	GLU	X	421	54.945	84.163	122.323	1.00	0.00	H
ATOM	3567	HG3	GLU	X	421	55.607	85.139	123.605	1.00	0.00	H
ATOM	3568	CD	GLU	X	421	56.948	83.627	122.827	1.00	0.00	C
ATOM	3569	OE1	GLU	X	421	57.718	83.110	123.718	1.00	0.00	O
ATOM	3570	OE2	GLU	X	421	57.242	83.526	121.626	1.00	0.00	O
ATOM	3571	C	GLU	X	421	52.541	83.015	123.605	1.00	0.00	C
ATOM	3572	O	GLU	X	421	52.259	81.847	123.284	1.00	0.00	O
ATOM	3573	N	PHE	X	422	52.063	84.017	122.897	1.00	0.00	N
ATOM	3574	H	PHE	X	422	52.366	84.967	123.060	1.00	0.00	H
ATOM	3575	CA	PHE	X	422	51.051	83.884	121.858	1.00	0.00	C
ATOM	3576	HA	PHE	X	422	50.792	82.848	121.643	1.00	0.00	H
ATOM	3577	CB	PHE	X	422	49.766	84.592	122.388	1.00	0.00	C
ATOM	3578	HB2	PHE	X	422	49.934	85.645	122.620	1.00	0.00	H
ATOM	3579	HB3	PHE	X	422	49.122	84.709	121.516	1.00	0.00	H
ATOM	3580	CG	PHE	X	422	49.105	84.056	123.576	1.00	0.00	C
ATOM	3581	CD1	PHE	X	422	48.125	83.067	123.394	1.00	0.00	C
ATOM	3582	HD1	PHE	X	422	47.908	82.782	122.375	1.00	0.00	H
ATOM	3583	CE1	PHE	X	422	47.459	82.558	124.497	1.00	0.00	C
ATOM	3584	HE1	PHE	X	422	46.599	81.913	124.397	1.00	0.00	H
ATOM	3585	CZ	PHE	X	422	47.911	82.810	125.776	1.00	0.00	C
ATOM	3586	HZ	PHE	X	422	47.516	82.306	126.646	1.00	0.00	H
ATOM	3587	CE2	PHE	X	422	49.042	83.646	125.983	1.00	0.00	C
ATOM	3588	HE2	PHE	X	422	49.373	83.779	127.003	1.00	0.00	H
ATOM	3589	CD2	PHE	X	422	49.578	84.340	124.888	1.00	0.00	C
ATOM	3590	HD2	PHE	X	422	50.376	85.045	125.072	1.00	0.00	H
ATOM	3591	C	PHE	X	422	51.595	84.462	120.596	1.00	0.00	C
ATOM	3592	O	PHE	X	422	52.558	85.215	120.588	1.00	0.00	O
ATOM	3593	N	ASN	X	423	50.991	83.979	119.490	1.00	0.00	N
ATOM	3594	H	ASN	X	423	50.422	83.145	119.505	1.00	0.00	H
ATOM	3595	CA	ASN	X	423	50.977	84.720	118.263	1.00	0.00	C
ATOM	3596	HA	ASN	X	423	51.629	85.585	118.134	1.00	0.00	H
ATOM	3597	CB	ASN	X	423	51.415	83.674	117.188	1.00	0.00	C
ATOM	3598	HB2	ASN	X	423	52.231	83.011	117.472	1.00	0.00	H
ATOM	3599	HB3	ASN	X	423	50.566	82.993	117.117	1.00	0.00	H
ATOM	3600	CG	ASN	X	423	51.677	84.248	115.815	1.00	0.00	C
ATOM	3601	OD1	ASN	X	423	51.802	85.469	115.659	1.00	0.00	O
ATOM	3602	ND2	ASN	X	423	51.928	83.453	114.817	1.00	0.00	N
ATOM	3603	HD21	ASN	X	423	52.223	83.880	113.950	1.00	0.00	H
ATOM	3604	HD22	ASN	X	423	52.009	82.447	114.789	1.00	0.00	H
ATOM	3605	C	ASN	X	423	49.561	85.263	117.928	1.00	0.00	C
ATOM	3606	O	ASN	X	423	48.555	84.659	118.240	1.00	0.00	O

ATOM	3607	N	LEU	X	424	49.507	86.440	117.289	1.00	0.00	N
ATOM	3608	H	LEU	X	424	50.369	86.917	117.065	1.00	0.00	H
ATOM	3609	CA	LEU	X	424	48.281	87.055	116.847	1.00	0.00	C
ATOM	3610	HA	LEU	X	424	47.464	86.424	117.195	1.00	0.00	H
ATOM	3611	CB	LEU	X	424	48.265	88.440	117.554	1.00	0.00	C
ATOM	3612	HB2	LEU	X	424	48.578	88.221	118.575	1.00	0.00	H
ATOM	3613	HB3	LEU	X	424	49.055	89.006	117.061	1.00	0.00	H
ATOM	3614	CG	LEU	X	424	46.996	89.108	117.395	1.00	0.00	C
ATOM	3615	HG	LEU	X	424	46.665	89.081	116.356	1.00	0.00	H
ATOM	3616	CD1	LEU	X	424	45.971	88.344	118.199	1.00	0.00	C
ATOM	3617	HD11	LEU	X	424	44.982	88.796	118.277	1.00	0.00	H
ATOM	3618	HD12	LEU	X	424	45.745	87.380	117.745	1.00	0.00	H
ATOM	3619	HD13	LEU	X	424	46.217	88.045	119.217	1.00	0.00	H
ATOM	3620	CD2	LEU	X	424	47.118	90.549	117.781	1.00	0.00	C
ATOM	3621	HD21	LEU	X	424	46.144	91.038	117.784	1.00	0.00	H
ATOM	3622	HD22	LEU	X	424	47.550	90.635	118.779	1.00	0.00	H
ATOM	3623	HD23	LEU	X	424	47.701	91.140	117.076	1.00	0.00	H
ATOM	3624	C	LEU	X	424	48.283	86.998	115.335	1.00	0.00	C
ATOM	3625	O	LEU	X	424	48.944	87.764	114.587	1.00	0.00	O
ATOM	3626	N	LYS	X	425	47.540	85.981	114.820	1.00	0.00	N
ATOM	3627	H	LYS	X	425	47.109	85.345	115.476	1.00	0.00	H
ATOM	3628	CA	LYS	X	425	47.583	85.670	113.365	1.00	0.00	C
ATOM	3629	HA	LYS	X	425	48.589	85.816	112.973	1.00	0.00	H
ATOM	3630	CB	LYS	X	425	47.454	84.155	113.184	1.00	0.00	C
ATOM	3631	HB2	LYS	X	425	46.536	83.860	113.692	1.00	0.00	H
ATOM	3632	HB3	LYS	X	425	47.470	83.998	112.106	1.00	0.00	H
ATOM	3633	CG	LYS	X	425	48.611	83.348	113.862	1.00	0.00	C
ATOM	3634	HG2	LYS	X	425	49.633	83.568	113.552	1.00	0.00	H
ATOM	3635	HG3	LYS	X	425	48.503	83.550	114.927	1.00	0.00	H
ATOM	3636	CD	LYS	X	425	48.373	81.862	113.503	1.00	0.00	C
ATOM	3637	HD2	LYS	X	425	47.336	81.710	113.805	1.00	0.00	H
ATOM	3638	HD3	LYS	X	425	48.547	81.773	112.430	1.00	0.00	H
ATOM	3639	CE	LYS	X	425	49.226	80.891	114.312	1.00	0.00	C
ATOM	3640	HE2	LYS	X	425	50.251	81.159	114.054	1.00	0.00	H
ATOM	3641	HE3	LYS	X	425	49.167	80.989	115.396	1.00	0.00	H
ATOM	3642	NZ	LYS	X	425	49.058	79.514	113.893	1.00	0.00	N
ATOM	3643	HZ1	LYS	X	425	48.170	79.222	114.276	1.00	0.00	H
ATOM	3644	HZ2	LYS	X	425	49.110	79.338	112.899	1.00	0.00	H
ATOM	3645	HZ3	LYS	X	425	49.699	78.881	114.350	1.00	0.00	H
ATOM	3646	C	LYS	X	425	46.680	86.388	112.358	1.00	0.00	C
ATOM	3647	O	LYS	X	425	46.835	86.090	111.205	1.00	0.00	O
ATOM	3648	N	GLY	X	426	45.836	87.337	112.805	1.00	0.00	N
ATOM	3649	H	GLY	X	426	45.780	87.541	113.793	1.00	0.00	H
ATOM	3650	CA	GLY	X	426	44.872	88.204	112.016	1.00	0.00	C
ATOM	3651	HA2	GLY	X	426	44.796	89.108	112.620	1.00	0.00	H
ATOM	3652	HA3	GLY	X	426	45.357	88.493	111.085	1.00	0.00	H
ATOM	3653	C	GLY	X	426	43.617	87.478	111.795	1.00	0.00	C
ATOM	3654	O	GLY	X	426	43.302	86.486	112.423	1.00	0.00	O
ATOM	3655	N	PHE	X	427	42.632	87.929	110.987	1.00	0.00	N
ATOM	3656	H	PHE	X	427	42.881	88.683	110.362	1.00	0.00	H
ATOM	3657	CA	PHE	X	427	41.439	87.228	110.679	1.00	0.00	C
ATOM	3658	HA	PHE	X	427	40.944	86.988	111.620	1.00	0.00	H
ATOM	3659	CB	PHE	X	427	40.543	88.226	109.822	1.00	0.00	C
ATOM	3660	HB2	PHE	X	427	41.033	88.404	108.865	1.00	0.00	H
ATOM	3661	HB3	PHE	X	427	39.578	87.791	109.566	1.00	0.00	H
ATOM	3662	CG	PHE	X	427	40.307	89.627	110.411	1.00	0.00	C
ATOM	3663	CD1	PHE	X	427	40.135	89.719	111.777	1.00	0.00	C
ATOM	3664	HD1	PHE	X	427	40.065	88.856	112.424	1.00	0.00	H
ATOM	3665	CE1	PHE	X	427	39.873	90.902	112.441	1.00	0.00	C
ATOM	3666	HE1	PHE	X	427	39.607	90.952	113.487	1.00	0.00	H
ATOM	3667	CZ	PHE	X	427	39.868	92.120	111.722	1.00	0.00	C
ATOM	3668	HZ	PHE	X	427	39.654	93.047	112.235	1.00	0.00	H
ATOM	3669	CE2	PHE	X	427	40.210	92.019	110.351	1.00	0.00	C
ATOM	3670	HE2	PHE	X	427	40.143	92.888	109.712	1.00	0.00	H
ATOM	3671	CD2	PHE	X	427	40.382	90.800	109.703	1.00	0.00	C
ATOM	3672	HD2	PHE	X	427	40.633	90.817	108.652	1.00	0.00	H
ATOM	3673	C	PHE	X	427	41.655	85.906	109.911	1.00	0.00	C
ATOM	3674	O	PHE	X	427	42.557	85.809	109.015	1.00	0.00	O
ATOM	3675	N	SER	X	428	40.738	84.901	110.129	1.00	0.00	N
ATOM	3676	H	SER	X	428	39.956	85.080	110.742	1.00	0.00	H
ATOM	3677	CA	SER	X	428	40.520	83.879	109.081	1.00	0.00	C
ATOM	3678	HA	SER	X	428	41.393	83.297	108.789	1.00	0.00	H
ATOM	3679	CB	SER	X	428	39.512	82.808	109.548	1.00	0.00	C
ATOM	3680	HB2	SER	X	428	39.567	81.980	108.841	1.00	0.00	H
ATOM	3681	HB3	SER	X	428	39.850	82.422	110.510	1.00	0.00	H
ATOM	3682	OG	SER	X	428	38.164	83.253	109.615	1.00	0.00	O
ATOM	3683	HG	SER	X	428	38.000	83.919	110.285	1.00	0.00	H
ATOM	3684	C	SER	X	428	39.957	84.447	107.754	1.00	0.00	C
ATOM	3685	O	SER	X	428	39.443	85.532	107.685	1.00	0.00	O
ATOM	3686	N	GLU	X	429	40.146	83.673	106.667	1.00	0.00	N
ATOM	3687	H	GLU	X	429	40.614	82.781	106.727	1.00	0.00	H
ATOM	3688	CA	GLU	X	429	39.766	84.161	105.370	1.00	0.00	C

ATOM	3689	HA	GLU	X	429	40.356	85.074	105.284	1.00	0.00	H
ATOM	3690	CB	GLU	X	429	40.187	83.110	104.259	1.00	0.00	C
ATOM	3691	HB2	GLU	X	429	39.908	83.389	103.244	1.00	0.00	H
ATOM	3692	HB3	GLU	X	429	41.253	82.891	104.214	1.00	0.00	H
ATOM	3693	CG	GLU	X	429	39.431	81.862	104.295	1.00	0.00	C
ATOM	3694	HG2	GLU	X	429	38.434	82.026	103.888	1.00	0.00	H
ATOM	3695	HG3	GLU	X	429	39.862	81.114	103.629	1.00	0.00	H
ATOM	3696	CD	GLU	X	429	39.299	81.167	105.669	1.00	0.00	C
ATOM	3697	OE1	GLU	X	429	40.336	80.836	106.267	1.00	0.00	O
ATOM	3698	OE2	GLU	X	429	38.187	80.966	106.238	1.00	0.00	O
ATOM	3699	C	GLU	X	429	38.297	84.593	105.201	1.00	0.00	C
ATOM	3700	O	GLU	X	429	38.086	85.620	104.520	1.00	0.00	O
ATOM	3701	N	GLU	X	430	37.324	83.877	105.764	1.00	0.00	N
ATOM	3702	H	GLU	X	430	37.614	83.033	106.236	1.00	0.00	H
ATOM	3703	CA	GLU	X	430	35.941	84.244	105.923	1.00	0.00	C
ATOM	3704	HA	GLU	X	430	35.517	84.356	104.926	1.00	0.00	H
ATOM	3705	CB	GLU	X	430	35.108	83.134	106.641	1.00	0.00	C
ATOM	3706	HB2	GLU	X	430	35.354	82.148	106.246	1.00	0.00	H
ATOM	3707	HB3	GLU	X	430	35.328	83.099	107.708	1.00	0.00	H
ATOM	3708	CG	GLU	X	430	33.562	83.174	106.525	1.00	0.00	C
ATOM	3709	HG2	GLU	X	430	33.117	82.441	107.199	1.00	0.00	H
ATOM	3710	HG3	GLU	X	430	33.186	84.147	106.842	1.00	0.00	H
ATOM	3711	CD	GLU	X	430	33.118	82.994	105.099	1.00	0.00	C
ATOM	3712	OE1	GLU	X	430	32.134	83.684	104.705	1.00	0.00	O
ATOM	3713	OE2	GLU	X	430	33.652	82.131	104.394	1.00	0.00	O
ATOM	3714	C	GLU	X	430	35.749	85.564	106.603	1.00	0.00	C
ATOM	3715	O	GLU	X	430	34.814	86.313	106.295	1.00	0.00	O
ATOM	3716	N	GLY	X	431	36.596	85.864	107.571	1.00	0.00	N
ATOM	3717	H	GLY	X	431	37.359	85.205	107.618	1.00	0.00	H
ATOM	3718	CA	GLY	X	431	36.575	86.995	108.489	1.00	0.00	C
ATOM	3719	HA2	GLY	X	431	35.672	87.079	109.093	1.00	0.00	H
ATOM	3720	HA3	GLY	X	431	37.357	86.899	109.244	1.00	0.00	H
ATOM	3721	C	GLY	X	431	36.782	88.255	107.772	1.00	0.00	C
ATOM	3722	O	GLY	X	431	36.068	89.180	108.125	1.00	0.00	O
ATOM	3723	N	ILE	X	432	37.676	88.412	106.771	1.00	0.00	N
ATOM	3724	H	ILE	X	432	38.394	87.718	106.620	1.00	0.00	H
ATOM	3725	CA	ILE	X	432	37.838	89.683	106.026	1.00	0.00	C
ATOM	3726	HA	ILE	X	432	37.924	90.372	106.866	1.00	0.00	H
ATOM	3727	CB	ILE	X	432	39.055	89.816	105.080	1.00	0.00	C
ATOM	3728	HB	ILE	X	432	39.963	89.531	105.611	1.00	0.00	H
ATOM	3729	CG2	ILE	X	432	38.832	88.959	103.800	1.00	0.00	C
ATOM	3730	HG21	ILE	X	432	38.947	87.923	104.118	1.00	0.00	H
ATOM	3731	HG22	ILE	X	432	37.856	89.105	103.340	1.00	0.00	H
ATOM	3732	HG23	ILE	X	432	39.634	89.080	103.070	1.00	0.00	H
ATOM	3733	CG1	ILE	X	432	39.219	91.225	104.557	1.00	0.00	C
ATOM	3734	HG12	ILE	X	432	40.075	91.313	103.888	1.00	0.00	H
ATOM	3735	HG13	ILE	X	432	38.364	91.489	103.934	1.00	0.00	H
ATOM	3736	CD1	ILE	X	432	39.386	92.403	105.594	1.00	0.00	C
ATOM	3737	HD11	ILE	X	432	39.725	93.210	104.944	1.00	0.00	H
ATOM	3738	HD12	ILE	X	432	38.398	92.668	105.970	1.00	0.00	H
ATOM	3739	HD13	ILE	X	432	40.125	92.139	106.349	1.00	0.00	H
ATOM	3740	C	ILE	X	432	36.538	89.978	105.325	1.00	0.00	C
ATOM	3741	O	ILE	X	432	36.112	91.128	105.273	1.00	0.00	O
ATOM	3742	N	GLU	X	433	35.803	89.052	104.765	1.00	0.00	N
ATOM	3743	H	GLU	X	433	36.273	88.160	104.790	1.00	0.00	H
ATOM	3744	CA	GLU	X	433	34.489	89.261	104.108	1.00	0.00	C
ATOM	3745	HA	GLU	X	433	34.616	89.937	103.262	1.00	0.00	H
ATOM	3746	CB	GLU	X	433	34.084	87.891	103.491	1.00	0.00	C
ATOM	3747	HB2	GLU	X	433	33.732	87.193	104.251	1.00	0.00	H
ATOM	3748	HB3	GLU	X	433	33.224	88.098	102.853	1.00	0.00	H
ATOM	3749	CG	GLU	X	433	35.182	87.203	102.677	1.00	0.00	C
ATOM	3750	HG2	GLU	X	433	35.716	88.023	102.196	1.00	0.00	H
ATOM	3751	HG3	GLU	X	433	35.930	86.725	103.310	1.00	0.00	H
ATOM	3752	CD	GLU	X	433	34.763	86.225	101.589	1.00	0.00	C
ATOM	3753	OE1	GLU	X	433	33.614	85.650	101.545	1.00	0.00	O
ATOM	3754	OE2	GLU	X	433	35.618	85.837	100.753	1.00	0.00	O
ATOM	3755	C	GLU	X	433	33.438	89.671	105.118	1.00	0.00	C
ATOM	3756	O	GLU	X	433	32.598	90.471	104.708	1.00	0.00	O
ATOM	3757	N	LEU	X	434	33.553	89.178	106.395	1.00	0.00	N
ATOM	3758	H	LEU	X	434	34.137	88.374	106.570	1.00	0.00	H
ATOM	3759	CA	LEU	X	434	32.638	89.655	107.432	1.00	0.00	C
ATOM	3760	HA	LEU	X	434	31.684	89.842	106.937	1.00	0.00	H
ATOM	3761	CB	LEU	X	434	32.588	88.585	108.543	1.00	0.00	C
ATOM	3762	HB2	LEU	X	434	32.157	87.645	108.198	1.00	0.00	H
ATOM	3763	HB3	LEU	X	434	33.616	88.250	108.683	1.00	0.00	H
ATOM	3764	CG	LEU	X	434	32.002	88.903	109.905	1.00	0.00	C
ATOM	3765	HG	LEU	X	434	32.408	89.813	110.348	1.00	0.00	H
ATOM	3766	CD1	LEU	X	434	30.436	89.136	109.809	1.00	0.00	C
ATOM	3767	HD11	LEU	X	434	29.973	88.315	109.263	1.00	0.00	H
ATOM	3768	HD12	LEU	X	434	30.103	89.046	110.843	1.00	0.00	H
ATOM	3769	HD13	LEU	X	434	30.199	90.163	109.524	1.00	0.00	H
ATOM	3770	CD2	LEU	X	434	32.279	87.751	110.888	1.00	0.00	C

ATOM	3771	HD21	LEU	X	434	32.015	86.761	110.519	1.00	0.00	H
ATOM	3772	HD22	LEU	X	434	33.340	87.738	111.139	1.00	0.00	H
ATOM	3773	HD23	LEU	X	434	31.591	87.782	111.732	1.00	0.00	H
ATOM	3774	C	LEU	X	434	32.992	91.084	107.831	1.00	0.00	C
ATOM	3775	O	LEU	X	434	32.075	91.854	107.961	1.00	0.00	O
ATOM	3776	N	TYR	X	435	34.305	91.324	108.103	1.00	0.00	N
ATOM	3777	H	TYR	X	435	34.936	90.576	107.854	1.00	0.00	H
ATOM	3778	CA	TYR	X	435	34.836	92.562	108.543	1.00	0.00	C
ATOM	3779	HA	TYR	X	435	34.393	92.811	109.507	1.00	0.00	H
ATOM	3780	CB	TYR	X	435	36.349	92.369	108.607	1.00	0.00	C
ATOM	3781	HB2	TYR	X	435	36.577	91.610	109.355	1.00	0.00	H
ATOM	3782	HB3	TYR	X	435	36.710	92.045	107.630	1.00	0.00	H
ATOM	3783	CG	TYR	X	435	37.108	93.651	108.918	1.00	0.00	C
ATOM	3784	CD1	TYR	X	435	37.461	93.987	110.226	1.00	0.00	C
ATOM	3785	HD1	TYR	X	435	37.009	93.420	111.025	1.00	0.00	H
ATOM	3786	CE1	TYR	X	435	38.127	95.173	110.502	1.00	0.00	C
ATOM	3787	HE1	TYR	X	435	38.191	95.446	111.543	1.00	0.00	H
ATOM	3788	CZ	TYR	X	435	38.478	96.014	109.446	1.00	0.00	C
ATOM	3789	OH	TYR	X	435	38.993	97.196	109.799	1.00	0.00	O
ATOM	3790	HH	TYR	X	435	39.582	97.238	110.556	1.00	0.00	H
ATOM	3791	CE2	TYR	X	435	37.999	95.789	108.180	1.00	0.00	C
ATOM	3792	HE2	TYR	X	435	38.252	96.555	107.462	1.00	0.00	H
ATOM	3793	CD2	TYR	X	435	37.411	94.565	107.877	1.00	0.00	C
ATOM	3794	HD2	TYR	X	435	37.085	94.507	106.848	1.00	0.00	H
ATOM	3795	C	TYR	X	435	34.456	93.752	107.634	1.00	0.00	C
ATOM	3796	O	TYR	X	435	33.993	94.785	108.103	1.00	0.00	O
ATOM	3797	N	LEU	X	436	34.668	93.578	106.325	1.00	0.00	N
ATOM	3798	H	LEU	X	436	35.101	92.724	106.001	1.00	0.00	H
ATOM	3799	CA	LEU	X	436	34.187	94.468	105.326	1.00	0.00	C
ATOM	3800	HA	LEU	X	436	34.570	95.459	105.572	1.00	0.00	H
ATOM	3801	CB	LEU	X	436	34.742	94.164	103.902	1.00	0.00	C
ATOM	3802	HB2	LEU	X	436	34.412	93.152	103.667	1.00	0.00	H
ATOM	3803	HB3	LEU	X	436	34.269	94.865	103.213	1.00	0.00	H
ATOM	3804	CG	LEU	X	436	36.320	94.148	103.807	1.00	0.00	C
ATOM	3805	HG	LEU	X	436	36.592	93.456	104.604	1.00	0.00	H
ATOM	3806	CD1	LEU	X	436	36.798	93.474	102.537	1.00	0.00	C
ATOM	3807	HD11	LEU	X	436	36.381	92.468	102.526	1.00	0.00	H
ATOM	3808	HD12	LEU	X	436	36.407	94.035	101.687	1.00	0.00	H
ATOM	3809	HD13	LEU	X	436	37.883	93.374	102.531	1.00	0.00	H
ATOM	3810	CD2	LEU	X	436	37.121	95.407	103.886	1.00	0.00	C
ATOM	3811	HD21	LEU	X	436	36.799	96.082	103.092	1.00	0.00	H
ATOM	3812	HD22	LEU	X	436	37.131	95.832	104.889	1.00	0.00	H
ATOM	3813	HD23	LEU	X	436	38.169	95.287	103.612	1.00	0.00	H
ATOM	3814	C	LEU	X	436	32.656	94.752	105.341	1.00	0.00	C
ATOM	3815	O	LEU	X	436	32.221	95.866	105.488	1.00	0.00	O
ATOM	3816	N	ARG	X	437	31.814	93.719	105.412	1.00	0.00	N
ATOM	3817	H	ARG	X	437	32.198	92.792	105.294	1.00	0.00	H
ATOM	3818	CA	ARG	X	437	30.368	93.875	105.686	1.00	0.00	C
ATOM	3819	HA	ARG	X	437	29.964	94.580	104.960	1.00	0.00	H
ATOM	3820	CB	ARG	X	437	29.635	92.520	105.323	1.00	0.00	C
ATOM	3821	HB2	ARG	X	437	30.044	91.742	105.966	1.00	0.00	H
ATOM	3822	HB3	ARG	X	437	28.564	92.481	105.521	1.00	0.00	H
ATOM	3823	CG	ARG	X	437	29.877	92.092	103.859	1.00	0.00	C
ATOM	3824	HG2	ARG	X	437	29.460	92.848	103.193	1.00	0.00	H
ATOM	3825	HG3	ARG	X	437	30.938	92.201	103.638	1.00	0.00	H
ATOM	3826	CD	ARG	X	437	29.399	90.617	103.420	1.00	0.00	C
ATOM	3827	HD2	ARG	X	437	30.152	89.902	103.750	1.00	0.00	H
ATOM	3828	HD3	ARG	X	437	28.458	90.432	103.939	1.00	0.00	H
ATOM	3829	NE	ARG	X	437	29.182	90.536	101.928	1.00	0.00	N
ATOM	3830	HE	ARG	X	437	28.609	91.184	101.407	1.00	0.00	H
ATOM	3831	CZ	ARG	X	437	29.680	89.570	101.186	1.00	0.00	C
ATOM	3832	NH1	ARG	X	437	30.486	88.683	101.649	1.00	0.00	N
ATOM	3833	HH11	ARG	X	437	30.621	88.629	102.648	1.00	0.00	H
ATOM	3834	HH12	ARG	X	437	30.942	88.096	100.965	1.00	0.00	H
ATOM	3835	NH2	ARG	X	437	29.266	89.574	99.967	1.00	0.00	N
ATOM	3836	HH21	ARG	X	437	28.565	90.229	99.651	1.00	0.00	H
ATOM	3837	HH22	ARG	X	437	29.571	88.928	99.253	1.00	0.00	H
ATOM	3838	C	ARG	X	437	29.991	94.458	107.031	1.00	0.00	C
ATOM	3839	O	ARG	X	437	28.893	94.945	107.084	1.00	0.00	O
ATOM	3840	N	LYS	X	438	30.885	94.555	108.030	1.00	0.00	N
ATOM	3841	H	LYS	X	438	31.675	93.958	107.835	1.00	0.00	H
ATOM	3842	CA	LYS	X	438	30.760	95.313	109.284	1.00	0.00	C
ATOM	3843	HA	LYS	X	438	29.736	95.336	109.658	1.00	0.00	H
ATOM	3844	CB	LYS	X	438	31.708	94.673	110.355	1.00	0.00	C
ATOM	3845	HB2	LYS	X	438	32.694	94.440	109.954	1.00	0.00	H
ATOM	3846	HB3	LYS	X	438	31.797	95.434	111.131	1.00	0.00	H
ATOM	3847	CG	LYS	X	438	31.079	93.431	111.095	1.00	0.00	C
ATOM	3848	HG2	LYS	X	438	30.371	93.886	111.788	1.00	0.00	H
ATOM	3849	HG3	LYS	X	438	30.729	92.664	110.402	1.00	0.00	H
ATOM	3850	CD	LYS	X	438	32.193	92.642	111.868	1.00	0.00	C
ATOM	3851	HD2	LYS	X	438	32.943	92.191	111.218	1.00	0.00	H
ATOM	3852	HD3	LYS	X	438	32.706	93.438	112.406	1.00	0.00	H

ATOM	3853	CE	LYS	X	438	31.709	91.501	112.672	1.00	0.00		C
ATOM	3854	HE2	LYS	X	438	31.339	90.811	111.914	1.00	0.00		H
ATOM	3855	HE3	LYS	X	438	32.642	91.044	113.002	1.00	0.00		H
ATOM	3856	NZ	LYS	X	438	30.764	91.916	113.758	1.00	0.00		N
ATOM	3857	HZ1	LYS	X	438	31.125	92.712	114.265	1.00	0.00		H
ATOM	3858	HZ2	LYS	X	438	29.932	92.216	113.273	1.00	0.00		H
ATOM	3859	HZ3	LYS	X	438	30.471	91.118	114.305	1.00	0.00		H
ATOM	3860	C	LYS	X	438	31.098	96.805	109.071	1.00	0.00		C
ATOM	3861	O	LYS	X	438	30.260	97.655	109.322	1.00	0.00		O
ATOM	3862	N	CYS	X	439	32.268	97.151	108.495	1.00	0.00		N
ATOM	3863	H	CYS	X	439	32.869	96.392	108.208	1.00	0.00		H
ATOM	3864	CA	CYS	X	439	32.759	98.507	108.462	1.00	0.00		C
ATOM	3865	HA	CYS	X	439	32.373	99.051	109.324	1.00	0.00		H
ATOM	3866	CB	CYS	X	439	34.307	98.446	108.644	1.00	0.00		C
ATOM	3867	HB2	CYS	X	439	34.713	99.453	108.724	1.00	0.00		H
ATOM	3868	HB3	CYS	X	439	34.546	97.807	109.496	1.00	0.00		H
ATOM	3869	SG	CYS	X	439	35.178	97.540	107.371	1.00	0.00		S
ATOM	3870	HG	CYS	X	439	35.190	96.328	107.934	1.00	0.00		H
ATOM	3871	C	CYS	X	439	32.395	99.335	107.207	1.00	0.00		C
ATOM	3872	O	CYS	X	439	32.224	100.552	107.353	1.00	0.00		O
ATOM	3873	N	HIE	X	440	32.199	98.702	106.022	1.00	0.00		N
ATOM	3874	H	HIE	X	440	32.153	97.694	106.060	1.00	0.00		H
ATOM	3875	CA	HIE	X	440	31.443	99.275	104.913	1.00	0.00		C
ATOM	3876	HA	HIE	X	440	31.710	100.328	104.832	1.00	0.00		H
ATOM	3877	CB	HIE	X	440	31.814	98.562	103.657	1.00	0.00		C
ATOM	3878	HB2	HIE	X	440	31.558	97.503	103.660	1.00	0.00		H
ATOM	3879	HB3	HIE	X	440	31.303	99.061	102.834	1.00	0.00		H
ATOM	3880	CG	HIE	X	440	33.306	98.776	103.372	1.00	0.00		C
ATOM	3881	ND1	HIE	X	440	33.791	99.772	102.535	1.00	0.00		N
ATOM	3882	CE1	HIE	X	440	35.135	99.621	102.512	1.00	0.00		C
ATOM	3883	HE1	HIE	X	440	35.837	100.352	102.139	1.00	0.00		H
ATOM	3884	NE2	HIE	X	440	35.471	98.532	103.269	1.00	0.00		N
ATOM	3885	HE2	HIE	X	440	36.413	98.278	103.529	1.00	0.00		H
ATOM	3886	CD2	HIE	X	440	34.321	97.993	103.794	1.00	0.00		C
ATOM	3887	HD2	HIE	X	440	34.164	97.090	104.366	1.00	0.00		H
ATOM	3888	C	HIE	X	440	29.906	99.252	105.121	1.00	0.00		C
ATOM	3889	O	HIE	X	440	29.222	98.243	104.882	1.00	0.00		O
ATOM	3890	N	ARG	X	441	29.432	100.458	105.577	1.00	0.00		N
ATOM	3891	H	ARG	X	441	30.078	101.224	105.700	1.00	0.00		H
ATOM	3892	CA	ARG	X	441	27.976	100.804	105.801	1.00	0.00		C
ATOM	3893	HA	ARG	X	441	27.539	99.928	106.278	1.00	0.00		H
ATOM	3894	CB	ARG	X	441	27.854	101.953	106.827	1.00	0.00		C
ATOM	3895	HB2	ARG	X	441	27.957	102.940	106.377	1.00	0.00		H
ATOM	3896	HB3	ARG	X	441	26.848	101.873	107.237	1.00	0.00		H
ATOM	3897	CG	ARG	X	441	28.842	101.999	108.047	1.00	0.00		C
ATOM	3898	HG2	ARG	X	441	29.806	102.140	107.557	1.00	0.00		H
ATOM	3899	HG3	ARG	X	441	28.531	102.818	108.695	1.00	0.00		H
ATOM	3900	CD	ARG	X	441	29.010	100.758	108.949	1.00	0.00		C
ATOM	3901	HD2	ARG	X	441	28.978	99.848	108.352	1.00	0.00		H
ATOM	3902	HD3	ARG	X	441	29.879	100.968	109.572	1.00	0.00		H
ATOM	3903	NE	ARG	X	441	27.919	100.567	109.899	1.00	0.00		N
ATOM	3904	HE	ARG	X	441	27.126	101.174	109.742	1.00	0.00		H
ATOM	3905	CZ	ARG	X	441	27.837	99.802	110.964	1.00	0.00		C
ATOM	3906	NH1	ARG	X	441	28.576	98.750	111.186	1.00	0.00		N
ATOM	3907	HH11	ARG	X	441	29.270	98.418	110.534	1.00	0.00		H
ATOM	3908	HH12	ARG	X	441	28.375	98.113	111.945	1.00	0.00		H
ATOM	3909	NH2	ARG	X	441	26.898	100.105	111.820	1.00	0.00		N
ATOM	3910	HH21	ARG	X	441	26.352	100.929	111.610	1.00	0.00		H
ATOM	3911	HH22	ARG	X	441	26.829	99.634	112.710	1.00	0.00		H
ATOM	3912	C	ARG	X	441	27.230	101.209	104.535	1.00	0.00		C
ATOM	3913	O	ARG	X	441	26.015	100.913	104.402	1.00	0.00		O
ATOM	3914	N	GLU	X	442	27.939	101.861	103.701	1.00	0.00		N
ATOM	3915	H	GLU	X	442	28.916	101.779	103.941	1.00	0.00		H
ATOM	3916	CA	GLU	X	442	27.499	102.257	102.379	1.00	0.00		C
ATOM	3917	HA	GLU	X	442	26.622	102.875	102.570	1.00	0.00		H
ATOM	3918	CB	GLU	X	442	28.690	103.046	101.718	1.00	0.00		C
ATOM	3919	HB2	GLU	X	442	28.934	103.882	102.374	1.00	0.00		H
ATOM	3920	HB3	GLU	X	442	29.542	102.366	101.709	1.00	0.00		H
ATOM	3921	CG	GLU	X	442	28.422	103.671	100.310	1.00	0.00		C
ATOM	3922	HG2	GLU	X	442	29.432	103.822	99.927	1.00	0.00		H
ATOM	3923	HG3	GLU	X	442	27.825	102.988	99.707	1.00	0.00		H
ATOM	3924	CD	GLU	X	442	27.780	105.062	100.448	1.00	0.00		C
ATOM	3925	OE1	GLU	X	442	27.024	105.263	101.428	1.00	0.00		O
ATOM	3926	OE2	GLU	X	442	27.912	105.826	99.463	1.00	0.00		O
ATOM	3927	C	GLU	X	442	27.039	101.114	101.322	1.00	0.00		C
ATOM	3928	O	GLU	X	442	27.637	100.021	101.286	1.00	0.00		O
ATOM	3929	N	PRO	X	443	25.928	101.384	100.537	1.00	0.00		N
ATOM	3930	CD	PRO	X	443	25.119	102.614	100.566	1.00	0.00		C
ATOM	3931	HD2	PRO	X	443	25.554	103.523	100.153	1.00	0.00		H
ATOM	3932	HD3	PRO	X	443	24.764	102.703	101.592	1.00	0.00		H
ATOM	3933	CG	PRO	X	443	23.936	102.397	99.639	1.00	0.00		C
ATOM	3934	HG2	PRO	X	443	23.926	103.042	98.762	1.00	0.00		H

ATOM	3935	HG3	PRO	X	443	23.041	102.525	100.248	1.00	0.00	H
ATOM	3936	CB	PRO	X	443	24.036	100.948	99.215	1.00	0.00	C
ATOM	3937	HB2	PRO	X	443	23.902	100.858	98.138	1.00	0.00	H
ATOM	3938	HB3	PRO	X	443	23.231	100.401	99.707	1.00	0.00	H
ATOM	3939	CA	PRO	X	443	25.325	100.286	99.752	1.00	0.00	C
ATOM	3940	HA	PRO	X	443	25.067	99.526	100.490	1.00	0.00	H
ATOM	3941	C	PRO	X	443	26.261	99.743	98.682	1.00	0.00	C
ATOM	3942	O	PRO	X	443	26.924	100.468	97.946	1.00	0.00	O
ATOM	3943	N	GLY	X	444	26.428	98.418	98.534	1.00	0.00	N
ATOM	3944	H	GLY	X	444	25.769	97.820	99.011	1.00	0.00	H
ATOM	3945	CA	GLY	X	444	26.988	97.761	97.346	1.00	0.00	C
ATOM	3946	HA2	GLY	X	444	26.597	96.745	97.374	1.00	0.00	H
ATOM	3947	HA3	GLY	X	444	26.646	98.308	96.467	1.00	0.00	H
ATOM	3948	C	GLY	X	444	28.510	97.808	97.246	1.00	0.00	C
ATOM	3949	O	GLY	X	444	29.190	97.327	96.309	1.00	0.00	O
ATOM	3950	N	VAL	X	445	29.176	98.345	98.286	1.00	0.00	N
ATOM	3951	H	VAL	X	445	28.685	98.454	99.162	1.00	0.00	H
ATOM	3952	CA	VAL	X	445	30.606	98.479	98.487	1.00	0.00	C
ATOM	3953	HA	VAL	X	445	31.123	98.690	97.551	1.00	0.00	H
ATOM	3954	CB	VAL	X	445	30.907	99.710	99.375	1.00	0.00	C
ATOM	3955	HB	VAL	X	445	30.451	99.484	100.338	1.00	0.00	H
ATOM	3956	CG1	VAL	X	445	32.469	99.992	99.468	1.00	0.00	C
ATOM	3957	HG11	VAL	X	445	32.948	99.189	100.026	1.00	0.00	H
ATOM	3958	HG12	VAL	X	445	32.980	100.087	98.509	1.00	0.00	H
ATOM	3959	HG13	VAL	X	445	32.502	100.882	100.096	1.00	0.00	H
ATOM	3960	CG2	VAL	X	445	30.296	101.011	98.702	1.00	0.00	C
ATOM	3961	HG21	VAL	X	445	30.703	101.843	99.276	1.00	0.00	H
ATOM	3962	HG22	VAL	X	445	30.604	100.995	97.657	1.00	0.00	H
ATOM	3963	HG23	VAL	X	445	29.236	101.059	98.955	1.00	0.00	H
ATOM	3964	C	VAL	X	445	31.358	97.268	98.912	1.00	0.00	C
ATOM	3965	O	VAL	X	445	32.245	96.775	98.134	1.00	0.00	O
ATOM	3966	N	ALA	X	446	30.865	96.596	99.978	1.00	0.00	N
ATOM	3967	H	ALA	X	446	30.147	96.973	100.580	1.00	0.00	H
ATOM	3968	CA	ALA	X	446	31.326	95.308	100.501	1.00	0.00	C
ATOM	3969	HA	ALA	X	446	32.370	95.323	100.818	1.00	0.00	H
ATOM	3970	CB	ALA	X	446	30.577	94.792	101.745	1.00	0.00	C
ATOM	3971	HB1	ALA	X	446	29.550	94.520	101.499	1.00	0.00	H
ATOM	3972	HB2	ALA	X	446	31.049	93.826	101.925	1.00	0.00	H
ATOM	3973	HB3	ALA	X	446	30.760	95.524	102.530	1.00	0.00	H
ATOM	3974	C	ALA	X	446	31.310	94.209	99.316	1.00	0.00	C
ATOM	3975	O	ALA	X	446	32.287	93.521	99.022	1.00	0.00	O
ATOM	3976	N	ASP	X	447	30.177	94.107	98.620	1.00	0.00	N
ATOM	3977	H	ASP	X	447	29.462	94.766	98.892	1.00	0.00	H
ATOM	3978	CA	ASP	X	447	29.989	93.204	97.560	1.00	0.00	C
ATOM	3979	HA	ASP	X	447	30.218	92.195	97.903	1.00	0.00	H
ATOM	3980	CB	ASP	X	447	28.537	93.318	97.043	1.00	0.00	C
ATOM	3981	HB2	ASP	X	447	28.213	94.338	96.839	1.00	0.00	H
ATOM	3982	HB3	ASP	X	447	28.522	92.852	96.057	1.00	0.00	H
ATOM	3983	CG	ASP	X	447	27.473	92.730	98.014	1.00	0.00	C
ATOM	3984	OD1	ASP	X	447	27.772	91.824	98.792	1.00	0.00	O
ATOM	3985	OD2	ASP	X	447	26.293	93.100	97.919	1.00	0.00	O
ATOM	3986	C	ASP	X	447	30.924	93.349	96.393	1.00	0.00	C
ATOM	3987	O	ASP	X	447	31.269	92.347	95.749	1.00	0.00	O
ATOM	3988	N	ARG	X	448	31.291	94.545	95.948	1.00	0.00	N
ATOM	3989	H	ARG	X	448	30.894	95.332	96.442	1.00	0.00	H
ATOM	3990	CA	ARG	X	448	32.331	94.823	94.945	1.00	0.00	C
ATOM	3991	HA	ARG	X	448	32.234	94.141	94.100	1.00	0.00	H
ATOM	3992	CB	ARG	X	448	32.106	96.247	94.415	1.00	0.00	C
ATOM	3993	HB2	ARG	X	448	32.161	96.909	95.279	1.00	0.00	H
ATOM	3994	HB3	ARG	X	448	32.921	96.549	93.756	1.00	0.00	H
ATOM	3995	CG	ARG	X	448	30.858	96.437	93.579	1.00	0.00	C
ATOM	3996	HG2	ARG	X	448	29.969	96.012	94.045	1.00	0.00	H
ATOM	3997	HG3	ARG	X	448	30.759	97.503	93.378	1.00	0.00	H
ATOM	3998	CD	ARG	X	448	31.041	95.853	92.159	1.00	0.00	C
ATOM	3999	HD2	ARG	X	448	31.302	94.795	92.161	1.00	0.00	H
ATOM	4000	HD3	ARG	X	448	30.070	95.853	91.661	1.00	0.00	H
ATOM	4001	NE	ARG	X	448	32.014	96.610	91.361	1.00	0.00	N
ATOM	4002	HE	ARG	X	448	32.873	96.095	91.231	1.00	0.00	H
ATOM	4003	CZ	ARG	X	448	32.117	97.828	90.840	1.00	0.00	C
ATOM	4004	NH1	ARG	X	448	33.199	98.252	90.348	1.00	0.00	N
ATOM	4005	HH11	ARG	X	448	34.041	97.720	90.517	1.00	0.00	H
ATOM	4006	HH12	ARG	X	448	33.335	99.213	90.070	1.00	0.00	H
ATOM	4007	NH2	ARG	X	448	31.078	98.599	90.798	1.00	0.00	N
ATOM	4008	HH21	ARG	X	448	30.169	98.254	91.074	1.00	0.00	H
ATOM	4009	HH22	ARG	X	448	31.166	99.391	90.178	1.00	0.00	H
ATOM	4010	C	ARG	X	448	33.702	94.692	95.465	1.00	0.00	C
ATOM	4011	O	ARG	X	448	34.443	94.080	94.679	1.00	0.00	O
ATOM	4012	N	LEU	X	449	34.125	95.151	96.613	1.00	0.00	N
ATOM	4013	H	LEU	X	449	33.338	95.592	97.069	1.00	0.00	H
ATOM	4014	CA	LEU	X	449	35.419	95.035	97.238	1.00	0.00	C
ATOM	4015	HA	LEU	X	449	36.072	95.376	96.435	1.00	0.00	H
ATOM	4016	CB	LEU	X	449	35.430	95.926	98.512	1.00	0.00	C

ATOM	4017	HB2	LEU	X	449	35.146	96.952	98.279	1.00	0.00	H
ATOM	4018	HB3	LEU	X	449	34.826	95.469	99.296	1.00	0.00	H
ATOM	4019	CG	LEU	X	449	36.888	96.109	99.014	1.00	0.00	C
ATOM	4020	HG	LEU	X	449	37.541	95.257	99.200	1.00	0.00	H
ATOM	4021	CD1	LEU	X	449	37.828	96.834	98.043	1.00	0.00	C
ATOM	4022	HD11	LEU	X	449	38.025	96.198	97.180	1.00	0.00	H
ATOM	4023	HD12	LEU	X	449	37.521	97.878	97.960	1.00	0.00	H
ATOM	4024	HD13	LEU	X	449	38.822	96.791	98.486	1.00	0.00	H
ATOM	4025	CD2	LEU	X	449	36.880	96.884	100.362	1.00	0.00	C
ATOM	4026	HD21	LEU	X	449	36.460	97.874	100.185	1.00	0.00	H
ATOM	4027	HD22	LEU	X	449	36.229	96.522	101.160	1.00	0.00	H
ATOM	4028	HD23	LEU	X	449	37.879	96.860	100.796	1.00	0.00	H
ATOM	4029	C	LEU	X	449	35.830	93.581	97.547	1.00	0.00	C
ATOM	4030	O	LEU	X	449	36.986	93.252	97.343	1.00	0.00	O
ATOM	4031	N	ILE	X	450	34.909	92.822	98.156	1.00	0.00	N
ATOM	4032	H	ILE	X	450	33.966	93.162	98.285	1.00	0.00	H
ATOM	4033	CA	ILE	X	450	35.079	91.386	98.469	1.00	0.00	C
ATOM	4034	HA	ILE	X	450	36.061	91.309	98.937	1.00	0.00	H
ATOM	4035	CB	ILE	X	450	33.922	90.888	99.388	1.00	0.00	C
ATOM	4036	HB	ILE	X	450	33.007	91.156	98.859	1.00	0.00	H
ATOM	4037	CG2	ILE	X	450	33.850	89.335	99.513	1.00	0.00	C
ATOM	4038	HG21	ILE	X	450	33.306	89.005	100.399	1.00	0.00	H
ATOM	4039	HG22	ILE	X	450	33.304	88.845	98.708	1.00	0.00	H
ATOM	4040	HG23	ILE	X	450	34.808	88.838	99.677	1.00	0.00	H
ATOM	4041	CG1	ILE	X	450	33.970	91.508	100.796	1.00	0.00	C
ATOM	4042	HG12	ILE	X	450	34.818	91.078	101.329	1.00	0.00	H
ATOM	4043	HG13	ILE	X	450	34.225	92.558	100.664	1.00	0.00	H
ATOM	4044	CD1	ILE	X	450	32.752	91.418	101.705	1.00	0.00	C
ATOM	4045	HD11	ILE	X	450	32.605	90.435	102.152	1.00	0.00	H
ATOM	4046	HD12	ILE	X	450	32.834	92.261	102.391	1.00	0.00	H
ATOM	4047	HD13	ILE	X	450	31.834	91.604	101.149	1.00	0.00	H
ATOM	4048	C	ILE	X	450	35.102	90.601	97.135	1.00	0.00	C
ATOM	4049	O	ILE	X	450	35.945	89.683	97.104	1.00	0.00	O
ATOM	4050	N	HIE	X	451	34.336	90.954	96.060	1.00	0.00	N
ATOM	4051	H	HIE	X	451	33.789	91.798	96.145	1.00	0.00	H
ATOM	4052	CA	HIE	X	451	34.556	90.326	94.725	1.00	0.00	C
ATOM	4053	HA	HIE	X	451	34.600	89.241	94.825	1.00	0.00	H
ATOM	4054	CB	HIE	X	451	33.443	90.900	93.737	1.00	0.00	C
ATOM	4055	HB2	HIE	X	451	32.504	90.379	93.930	1.00	0.00	H
ATOM	4056	HB3	HIE	X	451	33.463	91.987	93.810	1.00	0.00	H
ATOM	4057	CG	HIE	X	451	33.701	90.718	92.205	1.00	0.00	C
ATOM	4058	ND1	HIE	X	451	33.900	91.721	91.292	1.00	0.00	N
ATOM	4059	CE1	HIE	X	451	33.958	91.084	90.124	1.00	0.00	C
ATOM	4060	HE1	HIE	X	451	34.156	91.598	89.195	1.00	0.00	H
ATOM	4061	NE2	HIE	X	451	33.981	89.737	90.260	1.00	0.00	N
ATOM	4062	HE2	HIE	X	451	34.095	89.065	89.515	1.00	0.00	H
ATOM	4063	CD2	HIE	X	451	33.853	89.477	91.567	1.00	0.00	C
ATOM	4064	HD2	HIE	X	451	33.696	88.520	92.041	1.00	0.00	H
ATOM	4065	C	HIE	X	451	35.938	90.710	94.078	1.00	0.00	C
ATOM	4066	O	HIE	X	451	36.587	89.827	93.492	1.00	0.00	O
ATOM	4067	N	LEU	X	452	36.349	91.936	94.223	1.00	0.00	N
ATOM	4068	H	LEU	X	452	35.771	92.591	94.730	1.00	0.00	H
ATOM	4069	CA	LEU	X	452	37.715	92.374	93.859	1.00	0.00	C
ATOM	4070	HA	LEU	X	452	37.811	92.214	92.785	1.00	0.00	H
ATOM	4071	CB	LEU	X	452	37.912	93.886	94.085	1.00	0.00	C
ATOM	4072	HB2	LEU	X	452	37.189	94.413	93.461	1.00	0.00	H
ATOM	4073	HB3	LEU	X	452	37.779	94.097	95.146	1.00	0.00	H
ATOM	4074	CG	LEU	X	452	39.314	94.340	93.748	1.00	0.00	C
ATOM	4075	HG	LEU	X	452	39.698	93.927	92.816	1.00	0.00	H
ATOM	4076	CD1	LEU	X	452	39.162	95.859	93.433	1.00	0.00	C
ATOM	4077	HD11	LEU	X	452	38.690	96.300	94.311	1.00	0.00	H
ATOM	4078	HD12	LEU	X	452	40.073	96.372	93.121	1.00	0.00	H
ATOM	4079	HD13	LEU	X	452	38.512	95.877	92.558	1.00	0.00	H
ATOM	4080	CD2	LEU	X	452	40.309	94.189	94.841	1.00	0.00	C
ATOM	4081	HD21	LEU	X	452	40.381	93.178	95.242	1.00	0.00	H
ATOM	4082	HD22	LEU	X	452	41.290	94.521	94.502	1.00	0.00	H
ATOM	4083	HD23	LEU	X	452	40.044	94.776	95.721	1.00	0.00	H
ATOM	4084	C	LEU	X	452	38.812	91.419	94.502	1.00	0.00	C
ATOM	4085	O	LEU	X	452	39.724	90.937	93.779	1.00	0.00	O
ATOM	4086	N	LEU	X	453	38.731	91.195	95.857	1.00	0.00	N
ATOM	4087	H	LEU	X	453	38.009	91.678	96.372	1.00	0.00	H
ATOM	4088	CA	LEU	X	453	39.730	90.457	96.611	1.00	0.00	C
ATOM	4089	HA	LEU	X	453	40.721	90.809	96.329	1.00	0.00	H
ATOM	4090	CB	LEU	X	453	39.416	90.622	98.138	1.00	0.00	C
ATOM	4091	HB2	LEU	X	453	38.367	90.378	98.308	1.00	0.00	H
ATOM	4092	HB3	LEU	X	453	40.003	89.831	98.605	1.00	0.00	H
ATOM	4093	CG	LEU	X	453	39.770	92.005	98.775	1.00	0.00	C
ATOM	4094	HG	LEU	X	453	39.193	92.817	98.333	1.00	0.00	H
ATOM	4095	CD1	LEU	X	453	39.405	92.075	100.230	1.00	0.00	C
ATOM	4096	HD11	LEU	X	453	39.673	93.024	100.694	1.00	0.00	H
ATOM	4097	HD12	LEU	X	453	38.369	91.824	100.458	1.00	0.00	H
ATOM	4098	HD13	LEU	X	453	40.003	91.406	100.850	1.00	0.00	H

ATOM	4099	CD2	LEU	X	453	41.270	92.387	98.659	1.00	0.00	C
ATOM	4100	HD21	LEU	X	453	41.947	91.704	99.173	1.00	0.00	H
ATOM	4101	HD22	LEU	X	453	41.524	92.640	97.629	1.00	0.00	H
ATOM	4102	HD23	LEU	X	453	41.287	93.366	99.138	1.00	0.00	H
ATOM	4103	C	LEU	X	453	39.600	88.922	96.277	1.00	0.00	C
ATOM	4104	O	LEU	X	453	40.574	88.227	95.999	1.00	0.00	O
ATOM	4105	N	GLN	X	454	38.309	88.377	96.157	1.00	0.00	N
ATOM	4106	H	GLN	X	454	37.506	88.970	96.302	1.00	0.00	H
ATOM	4107	CA	GLN	X	454	38.073	87.002	95.674	1.00	0.00	C
ATOM	4108	HA	GLN	X	454	38.559	86.271	96.320	1.00	0.00	H
ATOM	4109	CB	GLN	X	454	36.625	86.801	95.794	1.00	0.00	C
ATOM	4110	HB2	GLN	X	454	36.146	87.554	95.167	1.00	0.00	H
ATOM	4111	HB3	GLN	X	454	36.308	85.850	95.367	1.00	0.00	H
ATOM	4112	CG	GLN	X	454	36.071	86.520	97.214	1.00	0.00	C
ATOM	4113	HG2	GLN	X	454	36.574	85.680	97.693	1.00	0.00	H
ATOM	4114	HG3	GLN	X	454	36.142	87.402	97.850	1.00	0.00	H
ATOM	4115	CD	GLN	X	454	34.592	86.194	97.197	1.00	0.00	C
ATOM	4116	OE1	GLN	X	454	33.876	86.199	96.181	1.00	0.00	O
ATOM	4117	NE2	GLN	X	454	34.164	85.821	98.353	1.00	0.00	N
ATOM	4118	HE21	GLN	X	454	33.192	85.554	98.412	1.00	0.00	H
ATOM	4119	HE22	GLN	X	454	34.747	86.018	99.154	1.00	0.00	H
ATOM	4120	C	GLN	X	454	38.528	86.789	94.209	1.00	0.00	C
ATOM	4121	O	GLN	X	454	38.544	85.638	93.762	1.00	0.00	O
ATOM	4122	N	THR	X	455	38.966	87.799	93.537	1.00	0.00	N
ATOM	4123	H	THR	X	455	38.971	88.672	94.046	1.00	0.00	H
ATOM	4124	CA	THR	X	455	39.724	87.680	92.231	1.00	0.00	C
ATOM	4125	HA	THR	X	455	39.861	86.617	92.039	1.00	0.00	H
ATOM	4126	CB	THR	X	455	38.886	88.279	91.036	1.00	0.00	C
ATOM	4127	HB	THR	X	455	39.339	88.083	90.064	1.00	0.00	H
ATOM	4128	CG2	THR	X	455	37.428	87.803	91.009	1.00	0.00	C
ATOM	4129	HG21	THR	X	455	37.378	86.716	90.960	1.00	0.00	H
ATOM	4130	HG22	THR	X	455	36.855	88.201	91.846	1.00	0.00	H
ATOM	4131	HG23	THR	X	455	36.931	88.216	90.132	1.00	0.00	H
ATOM	4132	OG1	THR	X	455	38.852	89.663	91.291	1.00	0.00	O
ATOM	4133	HG1	THR	X	455	38.300	89.706	92.075	1.00	0.00	H
ATOM	4134	C	THR	X	455	41.127	88.228	92.250	1.00	0.00	C
ATOM	4135	O	THR	X	455	41.806	88.402	91.222	1.00	0.00	O
ATOM	4136	N	THR	X	456	41.682	88.469	93.445	1.00	0.00	N
ATOM	4137	H	THR	X	456	41.162	88.148	94.249	1.00	0.00	H
ATOM	4138	CA	THR	X	456	43.018	89.001	93.663	1.00	0.00	C
ATOM	4139	HA	THR	X	456	43.617	88.865	92.764	1.00	0.00	H
ATOM	4140	CB	THR	X	456	43.040	90.547	93.928	1.00	0.00	C
ATOM	4141	HB	THR	X	456	42.638	90.848	94.895	1.00	0.00	H
ATOM	4142	CG2	THR	X	456	44.420	91.169	93.580	1.00	0.00	C
ATOM	4143	HG21	THR	X	456	45.189	90.618	94.121	1.00	0.00	H
ATOM	4144	HG22	THR	X	456	44.720	91.233	92.535	1.00	0.00	H
ATOM	4145	HG23	THR	X	456	44.460	92.180	93.985	1.00	0.00	H
ATOM	4146	OG1	THR	X	456	42.113	91.172	92.983	1.00	0.00	O
ATOM	4147	HG1	THR	X	456	41.228	90.846	93.164	1.00	0.00	H
ATOM	4148	C	THR	X	456	43.572	88.353	94.902	1.00	0.00	C
ATOM	4149	O	THR	X	456	43.622	88.938	96.011	1.00	0.00	O
ATOM	4150	N	SER	X	457	43.875	87.035	94.795	1.00	0.00	N
ATOM	4151	H	SER	X	457	43.844	86.595	93.887	1.00	0.00	H
ATOM	4152	CA	SER	X	457	44.130	86.176	96.012	1.00	0.00	C
ATOM	4153	HA	SER	X	457	43.265	86.348	96.652	1.00	0.00	H
ATOM	4154	CB	SER	X	457	44.231	84.686	95.670	1.00	0.00	C
ATOM	4155	HB2	SER	X	457	45.107	84.537	95.040	1.00	0.00	H
ATOM	4156	HB3	SER	X	457	44.539	84.123	96.551	1.00	0.00	H
ATOM	4157	OG	SER	X	457	43.084	84.213	94.954	1.00	0.00	O
ATOM	4158	HG	SER	X	457	43.244	83.267	94.997	1.00	0.00	H
ATOM	4159	C	SER	X	457	45.420	86.685	96.733	1.00	0.00	C
ATOM	4160	O	SER	X	457	45.408	86.436	97.925	1.00	0.00	O
ATOM	4161	N	ALA	X	458	46.466	87.236	96.051	1.00	0.00	N
ATOM	4162	H	ALA	X	458	46.467	87.234	95.041	1.00	0.00	H
ATOM	4163	CA	ALA	X	458	47.585	87.717	96.846	1.00	0.00	C
ATOM	4164	HA	ALA	X	458	48.043	86.970	97.492	1.00	0.00	H
ATOM	4165	CB	ALA	X	458	48.747	87.978	95.860	1.00	0.00	C
ATOM	4166	HB1	ALA	X	458	48.574	88.787	95.150	1.00	0.00	H
ATOM	4167	HB2	ALA	X	458	49.703	88.028	96.384	1.00	0.00	H
ATOM	4168	HB3	ALA	X	458	48.839	87.082	95.247	1.00	0.00	H
ATOM	4169	C	ALA	X	458	47.207	88.984	97.672	1.00	0.00	C
ATOM	4170	O	ALA	X	458	47.489	89.065	98.855	1.00	0.00	O
ATOM	4171	N	LEU	X	459	46.334	89.882	97.191	1.00	0.00	N
ATOM	4172	H	LEU	X	459	46.057	89.839	96.221	1.00	0.00	H
ATOM	4173	CA	LEU	X	459	45.801	90.993	97.986	1.00	0.00	C
ATOM	4174	HA	LEU	X	459	46.642	91.462	98.498	1.00	0.00	H
ATOM	4175	CB	LEU	X	459	45.115	91.998	97.072	1.00	0.00	C
ATOM	4176	HB2	LEU	X	459	45.737	92.200	96.202	1.00	0.00	H
ATOM	4177	HB3	LEU	X	459	44.245	91.560	96.582	1.00	0.00	H
ATOM	4178	CG	LEU	X	459	44.713	93.410	97.603	1.00	0.00	C
ATOM	4179	HG	LEU	X	459	43.860	93.324	98.273	1.00	0.00	H
ATOM	4180	CD1	LEU	X	459	45.959	94.008	98.318	1.00	0.00	C

ATOM	4181	HD11	LEU	X	459	46.155	93.557	99.292	1.00	0.00	H
ATOM	4182	HD12	LEU	X	459	46.821	94.007	97.651	1.00	0.00	H
ATOM	4183	HD13	LEU	X	459	45.721	95.055	98.506	1.00	0.00	H
ATOM	4184	CD2	LEU	X	459	44.390	94.311	96.411	1.00	0.00	C
ATOM	4185	HD21	LEU	X	459	43.598	93.714	95.958	1.00	0.00	H
ATOM	4186	HD22	LEU	X	459	44.105	95.339	96.629	1.00	0.00	H
ATOM	4187	HD23	LEU	X	459	45.212	94.293	95.696	1.00	0.00	H
ATOM	4188	C	LEU	X	459	44.846	90.572	99.126	1.00	0.00	C
ATOM	4189	O	LEU	X	459	44.825	91.159	100.157	1.00	0.00	O
ATOM	4190	N	HIE	X	460	44.012	89.540	98.808	1.00	0.00	N
ATOM	4191	H	HIE	X	460	44.164	89.078	97.921	1.00	0.00	H
ATOM	4192	CA	HIE	X	460	43.058	89.029	99.822	1.00	0.00	C
ATOM	4193	HA	HIE	X	460	42.399	89.856	100.090	1.00	0.00	H
ATOM	4194	CB	HIE	X	460	42.206	87.848	99.177	1.00	0.00	C
ATOM	4195	HB2	HIE	X	460	41.753	88.117	98.224	1.00	0.00	H
ATOM	4196	HB3	HIE	X	460	42.831	86.955	99.161	1.00	0.00	H
ATOM	4197	CG	HIE	X	460	40.936	87.425	99.917	1.00	0.00	C
ATOM	4198	ND1	HIE	X	460	40.911	87.002	101.236	1.00	0.00	N
ATOM	4199	CE1	HIE	X	460	39.670	86.678	101.566	1.00	0.00	C
ATOM	4200	HE1	HIE	X	460	39.397	86.245	102.518	1.00	0.00	H
ATOM	4201	NE2	HIE	X	460	38.914	86.615	100.455	1.00	0.00	N
ATOM	4202	HE2	HIE	X	460	37.948	86.321	100.440	1.00	0.00	H
ATOM	4203	CD2	HIE	X	460	39.666	87.225	99.408	1.00	0.00	C
ATOM	4204	HD2	HIE	X	460	39.502	87.437	98.361	1.00	0.00	H
ATOM	4205	C	HIE	X	460	43.865	88.542	101.051	1.00	0.00	C
ATOM	4206	O	HIE	X	460	43.568	89.018	102.138	1.00	0.00	O
ATOM	4207	N	GLY	X	461	44.961	87.811	100.772	1.00	0.00	N
ATOM	4208	H	GLY	X	461	45.123	87.575	99.804	1.00	0.00	H
ATOM	4209	CA	GLY	X	461	45.860	87.363	101.839	1.00	0.00	C
ATOM	4210	HA2	GLY	X	461	45.361	86.648	102.493	1.00	0.00	H
ATOM	4211	HA3	GLY	X	461	46.650	86.811	101.330	1.00	0.00	H
ATOM	4212	C	GLY	X	461	46.415	88.449	102.762	1.00	0.00	C
ATOM	4213	O	GLY	X	461	46.291	88.341	103.942	1.00	0.00	O
ATOM	4214	N	LEU	X	462	46.847	89.504	102.164	1.00	0.00	N
ATOM	4215	H	LEU	X	462	46.800	89.608	101.160	1.00	0.00	H
ATOM	4216	CA	LEU	X	462	47.355	90.664	102.840	1.00	0.00	C
ATOM	4217	HA	LEU	X	462	48.232	90.343	103.404	1.00	0.00	H
ATOM	4218	CB	LEU	X	462	47.784	91.724	101.771	1.00	0.00	C
ATOM	4219	HB2	LEU	X	462	46.999	91.903	101.035	1.00	0.00	H
ATOM	4220	HB3	LEU	X	462	47.845	92.721	102.205	1.00	0.00	H
ATOM	4221	CG	LEU	X	462	49.088	91.454	101.031	1.00	0.00	C
ATOM	4222	HG	LEU	X	462	48.868	90.684	100.293	1.00	0.00	H
ATOM	4223	CD1	LEU	X	462	49.589	92.666	100.337	1.00	0.00	C
ATOM	4224	HD11	LEU	X	462	48.787	92.925	99.646	1.00	0.00	H
ATOM	4225	HD12	LEU	X	462	50.002	93.403	101.025	1.00	0.00	H
ATOM	4226	HD13	LEU	X	462	50.428	92.310	99.740	1.00	0.00	H
ATOM	4227	CD2	LEU	X	462	50.225	90.867	101.942	1.00	0.00	C
ATOM	4228	HD21	LEU	X	462	50.445	91.670	102.645	1.00	0.00	H
ATOM	4229	HD22	LEU	X	462	49.952	89.945	102.455	1.00	0.00	H
ATOM	4230	HD23	LEU	X	462	51.045	90.620	101.267	1.00	0.00	H
ATOM	4231	C	LEU	X	462	46.308	91.398	103.741	1.00	0.00	C
ATOM	4232	O	LEU	X	462	46.640	91.944	104.836	1.00	0.00	O
ATOM	4233	N	CYS	X	463	45.070	91.453	103.217	1.00	0.00	N
ATOM	4234	H	CYS	X	463	45.012	91.015	102.309	1.00	0.00	H
ATOM	4235	CA	CYS	X	463	43.964	92.201	103.871	1.00	0.00	C
ATOM	4236	HA	CYS	X	463	44.280	93.191	104.193	1.00	0.00	H
ATOM	4237	CB	CYS	X	463	42.752	92.298	102.937	1.00	0.00	C
ATOM	4238	HB2	CYS	X	463	42.372	91.355	102.546	1.00	0.00	H
ATOM	4239	HB3	CYS	X	463	41.807	92.668	103.335	1.00	0.00	H
ATOM	4240	SG	CYS	X	463	43.167	93.264	101.496	1.00	0.00	S
ATOM	4241	HG	CYS	X	463	44.120	92.417	101.092	1.00	0.00	H
ATOM	4242	C	CYS	X	463	43.459	91.535	105.145	1.00	0.00	C
ATOM	4243	O	CYS	X	463	42.625	92.124	105.800	1.00	0.00	O
ATOM	4244	N	HIE	X	464	43.869	90.283	105.446	1.00	0.00	N
ATOM	4245	H	HIE	X	464	44.500	89.767	104.850	1.00	0.00	H
ATOM	4246	CA	HIE	X	464	43.497	89.493	106.666	1.00	0.00	C
ATOM	4247	HA	HIE	X	464	42.412	89.497	106.770	1.00	0.00	H
ATOM	4248	CB	HIE	X	464	44.056	88.109	106.476	1.00	0.00	C
ATOM	4249	HB2	HIE	X	464	45.096	88.302	106.210	1.00	0.00	H
ATOM	4250	HB3	HIE	X	464	44.048	87.615	107.446	1.00	0.00	H
ATOM	4251	CG	HIE	X	464	43.521	87.130	105.514	1.00	0.00	C
ATOM	4252	ND1	HIE	X	464	43.644	85.722	105.626	1.00	0.00	N
ATOM	4253	CE1	HIE	X	464	43.041	85.199	104.560	1.00	0.00	C
ATOM	4254	HE1	HIE	X	464	43.021	84.137	104.359	1.00	0.00	H
ATOM	4255	NE2	HIE	X	464	42.614	86.173	103.764	1.00	0.00	N
ATOM	4256	HE2	HIE	X	464	42.091	85.983	102.923	1.00	0.00	H
ATOM	4257	CD2	HIE	X	464	42.797	87.350	104.383	1.00	0.00	C
ATOM	4258	HD2	HIE	X	464	42.505	88.331	104.036	1.00	0.00	H
ATOM	4259	C	HIE	X	464	44.046	90.191	107.925	1.00	0.00	C
ATOM	4260	O	HIE	X	464	43.452	89.913	108.944	1.00	0.00	O
ATOM	4261	N	LEU	X	465	45.127	90.987	107.945	1.00	0.00	N
ATOM	4262	H	LEU	X	465	45.437	91.339	107.051	1.00	0.00	H

ATOM	4263	CA	LEU	X	465	45.708	91.585	109.109	1.00	0.00	C
ATOM	4264	HA	LEU	X	465	45.542	90.849	109.899	1.00	0.00	H
ATOM	4265	CB	LEU	X	465	47.237	91.778	109.025	1.00	0.00	C
ATOM	4266	HB2	LEU	X	465	47.516	92.188	108.054	1.00	0.00	H
ATOM	4267	HB3	LEU	X	465	47.458	92.413	109.883	1.00	0.00	H
ATOM	4268	CG	LEU	X	465	47.988	90.462	109.345	1.00	0.00	C
ATOM	4269	HG	LEU	X	465	47.471	90.103	110.236	1.00	0.00	H
ATOM	4270	CD1	LEU	X	465	48.050	89.338	108.277	1.00	0.00	C
ATOM	4271	HD11	LEU	X	465	48.378	89.751	107.322	1.00	0.00	H
ATOM	4272	HD12	LEU	X	465	48.634	88.462	108.558	1.00	0.00	H
ATOM	4273	HD13	LEU	X	465	46.994	89.094	108.172	1.00	0.00	H
ATOM	4274	CD2	LEU	X	465	49.429	90.743	109.726	1.00	0.00	C
ATOM	4275	HD21	LEU	X	465	50.084	90.894	108.867	1.00	0.00	H
ATOM	4276	HD22	LEU	X	465	49.433	91.646	110.337	1.00	0.00	H
ATOM	4277	HD23	LEU	X	465	49.814	90.020	110.444	1.00	0.00	H
ATOM	4278	C	LEU	X	465	45.036	92.928	109.441	1.00	0.00	C
ATOM	4279	O	LEU	X	465	45.207	93.840	108.628	1.00	0.00	O
ATOM	4280	N	PRO	X	466	44.322	93.153	110.571	1.00	0.00	N
ATOM	4281	CD	PRO	X	466	44.236	92.150	111.616	1.00	0.00	C
ATOM	4282	HD2	PRO	X	466	45.211	92.099	112.101	1.00	0.00	H
ATOM	4283	HD3	PRO	X	466	43.865	91.178	111.288	1.00	0.00	H
ATOM	4284	CG	PRO	X	466	43.325	92.792	112.623	1.00	0.00	C
ATOM	4285	HG2	PRO	X	466	43.607	92.512	113.640	1.00	0.00	H
ATOM	4286	HG3	PRO	X	466	42.359	92.432	112.270	1.00	0.00	H
ATOM	4287	CB	PRO	X	466	43.420	94.326	112.355	1.00	0.00	C
ATOM	4288	HB2	PRO	X	466	44.314	94.789	112.778	1.00	0.00	H
ATOM	4289	HB3	PRO	X	466	42.604	94.912	112.777	1.00	0.00	H
ATOM	4290	CA	PRO	X	466	43.522	94.319	110.828	1.00	0.00	C
ATOM	4291	HA	PRO	X	466	42.547	94.137	110.374	1.00	0.00	H
ATOM	4292	C	PRO	X	466	43.985	95.710	110.396	1.00	0.00	C
ATOM	4293	O	PRO	X	466	43.151	96.510	109.969	1.00	0.00	O
ATOM	4294	N	VAL	X	467	45.289	96.142	110.377	1.00	0.00	N
ATOM	4295	H	VAL	X	467	46.011	95.559	110.777	1.00	0.00	H
ATOM	4296	CA	VAL	X	467	45.530	97.554	109.812	1.00	0.00	C
ATOM	4297	HA	VAL	X	467	44.774	98.221	110.231	1.00	0.00	H
ATOM	4298	CB	VAL	X	467	46.889	98.029	110.380	1.00	0.00	C
ATOM	4299	HB	VAL	X	467	47.603	97.285	110.025	1.00	0.00	H
ATOM	4300	CG1	VAL	X	467	47.158	99.476	109.966	1.00	0.00	C
ATOM	4301	HG11	VAL	X	467	46.236	100.006	110.207	1.00	0.00	H
ATOM	4302	HG12	VAL	X	467	48.080	99.841	110.418	1.00	0.00	H
ATOM	4303	HG13	VAL	X	467	47.441	99.376	108.919	1.00	0.00	H
ATOM	4304	CG2	VAL	X	467	46.984	98.016	111.921	1.00	0.00	C
ATOM	4305	HG21	VAL	X	467	47.885	98.544	112.236	1.00	0.00	H
ATOM	4306	HG22	VAL	X	467	46.092	98.487	112.336	1.00	0.00	H
ATOM	4307	HG23	VAL	X	467	47.036	97.002	112.317	1.00	0.00	H
ATOM	4308	C	VAL	X	467	45.412	97.626	108.273	1.00	0.00	C
ATOM	4309	O	VAL	X	467	45.289	98.660	107.690	1.00	0.00	O
ATOM	4310	N	PHE	X	468	45.589	96.478	107.527	1.00	0.00	N
ATOM	4311	H	PHE	X	468	45.664	95.700	108.168	1.00	0.00	H
ATOM	4312	CA	PHE	X	468	45.529	96.330	106.095	1.00	0.00	C
ATOM	4313	HA	PHE	X	468	45.891	97.225	105.588	1.00	0.00	H
ATOM	4314	CB	PHE	X	468	46.240	95.139	105.477	1.00	0.00	C
ATOM	4315	HB2	PHE	X	468	47.059	94.827	106.126	1.00	0.00	H
ATOM	4316	HB3	PHE	X	468	45.584	94.270	105.421	1.00	0.00	H
ATOM	4317	CG	PHE	X	468	46.841	95.469	104.163	1.00	0.00	C
ATOM	4318	CD1	PHE	X	468	45.967	95.369	102.992	1.00	0.00	C
ATOM	4319	HD1	PHE	X	468	44.925	95.084	102.960	1.00	0.00	H
ATOM	4320	CE1	PHE	X	468	46.586	95.665	101.729	1.00	0.00	C
ATOM	4321	HE1	PHE	X	468	45.955	95.602	100.854	1.00	0.00	H
ATOM	4322	CZ	PHE	X	468	47.965	95.810	101.601	1.00	0.00	C
ATOM	4323	HZ	PHE	X	468	48.410	95.940	100.625	1.00	0.00	H
ATOM	4324	CE2	PHE	X	468	48.775	95.810	102.730	1.00	0.00	C
ATOM	4325	HE2	PHE	X	468	49.835	95.964	102.606	1.00	0.00	H
ATOM	4326	CD2	PHE	X	468	48.217	95.695	103.982	1.00	0.00	C
ATOM	4327	HD2	PHE	X	468	48.891	95.697	104.826	1.00	0.00	H
ATOM	4328	C	PHE	X	468	44.064	96.355	105.611	1.00	0.00	C
ATOM	4329	O	PHE	X	468	43.703	97.046	104.630	1.00	0.00	O
ATOM	4330	N	SER	X	469	43.260	95.559	106.297	1.00	0.00	N
ATOM	4331	H	SER	X	469	43.757	94.957	106.937	1.00	0.00	H
ATOM	4332	CA	SER	X	469	41.815	95.599	106.415	1.00	0.00	C
ATOM	4333	HA	SER	X	469	41.369	95.171	105.517	1.00	0.00	H
ATOM	4334	CB	SER	X	469	41.266	94.760	107.531	1.00	0.00	C
ATOM	4335	HB2	SER	X	469	41.061	95.423	108.373	1.00	0.00	H
ATOM	4336	HB3	SER	X	469	40.318	94.349	107.187	1.00	0.00	H
ATOM	4337	OG	SER	X	469	42.201	93.813	107.797	1.00	0.00	O
ATOM	4338	HG	SER	X	469	42.243	93.284	106.997	1.00	0.00	H
ATOM	4339	C	SER	X	469	41.299	96.994	106.610	1.00	0.00	C
ATOM	4340	O	SER	X	469	40.270	97.338	106.065	1.00	0.00	O
ATOM	4341	N	TRP	X	470	41.921	97.780	107.438	1.00	0.00	N
ATOM	4342	H	TRP	X	470	42.571	97.409	108.117	1.00	0.00	H
ATOM	4343	CA	TRP	X	470	41.670	99.242	107.723	1.00	0.00	C
ATOM	4344	HA	TRP	X	470	40.588	99.377	107.744	1.00	0.00	H

ATOM	4345	CB	TRP	X	470	42.308	99.653	109.098	1.00	0.00	C
ATOM	4346	HB2	TRP	X	470	41.993	98.856	109.771	1.00	0.00	H
ATOM	4347	HB3	TRP	X	470	43.383	99.685	108.922	1.00	0.00	H
ATOM	4348	CG	TRP	X	470	41.953	100.996	109.768	1.00	0.00	C
ATOM	4349	CD1	TRP	X	470	41.039	101.085	110.794	1.00	0.00	C
ATOM	4350	HD1	TRP	X	470	40.446	100.227	111.072	1.00	0.00	H
ATOM	4351	NE1	TRP	X	470	40.961	102.375	111.114	1.00	0.00	N
ATOM	4352	HE1	TRP	X	470	40.222	102.776	111.672	1.00	0.00	H
ATOM	4353	CE2	TRP	X	470	41.903	103.201	110.447	1.00	0.00	C
ATOM	4354	CZ2	TRP	X	470	42.217	104.608	110.528	1.00	0.00	C
ATOM	4355	HZ2	TRP	X	470	41.769	105.271	111.254	1.00	0.00	H
ATOM	4356	CH2	TRP	X	470	43.215	105.138	109.729	1.00	0.00	C
ATOM	4357	HH2	TRP	X	470	43.517	106.174	109.722	1.00	0.00	H
ATOM	4358	CZ3	TRP	X	470	43.900	104.288	108.832	1.00	0.00	C
ATOM	4359	HZ3	TRP	X	470	44.670	104.740	108.224	1.00	0.00	H
ATOM	4360	CE3	TRP	X	470	43.591	102.879	108.795	1.00	0.00	C
ATOM	4361	HE3	TRP	X	470	44.024	102.201	108.074	1.00	0.00	H
ATOM	4362	CD2	TRP	X	470	42.562	102.334	109.587	1.00	0.00	C
ATOM	4363	C	TRP	X	470	42.091	100.125	106.521	1.00	0.00	C
ATOM	4364	O	TRP	X	470	41.317	100.951	105.999	1.00	0.00	O
ATOM	4365	N	MET	X	471	43.238	99.928	105.920	1.00	0.00	N
ATOM	4366	H	MET	X	471	43.934	99.360	106.381	1.00	0.00	H
ATOM	4367	CA	MET	X	471	43.719	100.749	104.786	1.00	0.00	C
ATOM	4368	HA	MET	X	471	43.520	101.781	105.074	1.00	0.00	H
ATOM	4369	CB	MET	X	471	45.239	100.535	104.575	1.00	0.00	C
ATOM	4370	HB2	MET	X	471	45.450	99.465	104.564	1.00	0.00	H
ATOM	4371	HB3	MET	X	471	45.577	100.874	103.597	1.00	0.00	H
ATOM	4372	CG	MET	X	471	45.999	101.269	105.639	1.00	0.00	C
ATOM	4373	HG2	MET	X	471	45.637	102.289	105.764	1.00	0.00	H
ATOM	4374	HG3	MET	X	471	45.823	100.739	106.574	1.00	0.00	H
ATOM	4375	SD	MET	X	471	47.783	101.579	105.245	1.00	0.00	S
ATOM	4376	CE	MET	X	471	48.170	99.784	104.974	1.00	0.00	C
ATOM	4377	HE1	MET	X	471	48.085	99.542	103.916	1.00	0.00	H
ATOM	4378	HE2	MET	X	471	49.205	99.714	105.309	1.00	0.00	H
ATOM	4379	HE3	MET	X	471	47.643	99.161	105.697	1.00	0.00	H
ATOM	4380	C	MET	X	471	42.997	100.532	103.464	1.00	0.00	C
ATOM	4381	O	MET	X	471	42.606	101.519	102.801	1.00	0.00	O
ATOM	4382	N	VAL	X	472	42.731	99.266	103.038	1.00	0.00	N
ATOM	4383	H	VAL	X	472	43.121	98.514	103.587	1.00	0.00	H
ATOM	4384	CA	VAL	X	472	41.912	98.928	101.824	1.00	0.00	C
ATOM	4385	HA	VAL	X	472	42.365	99.397	100.952	1.00	0.00	H
ATOM	4386	CB	VAL	X	472	41.817	97.451	101.504	1.00	0.00	C
ATOM	4387	HB	VAL	X	472	42.853	97.111	101.480	1.00	0.00	H
ATOM	4388	CG1	VAL	X	472	41.015	96.513	102.435	1.00	0.00	C
ATOM	4389	HG11	VAL	X	472	40.144	96.998	102.876	1.00	0.00	H
ATOM	4390	HG12	VAL	X	472	40.866	95.597	101.865	1.00	0.00	H
ATOM	4391	HG13	VAL	X	472	41.663	96.211	103.258	1.00	0.00	H
ATOM	4392	CG2	VAL	X	472	41.260	97.212	100.099	1.00	0.00	C
ATOM	4393	HG21	VAL	X	472	41.365	96.196	99.720	1.00	0.00	H
ATOM	4394	HG22	VAL	X	472	40.204	97.484	100.102	1.00	0.00	H
ATOM	4395	HG23	VAL	X	472	41.676	97.929	99.391	1.00	0.00	H
ATOM	4396	C	VAL	X	472	40.535	99.501	102.102	1.00	0.00	C
ATOM	4397	O	VAL	X	472	39.906	99.997	101.181	1.00	0.00	O
ATOM	4398	N	SER	X	473	40.048	99.679	103.379	1.00	0.00	N
ATOM	4399	H	SER	X	473	40.794	99.658	104.060	1.00	0.00	H
ATOM	4400	CA	SER	X	473	38.804	100.291	103.769	1.00	0.00	C
ATOM	4401	HA	SER	X	473	38.023	100.009	103.061	1.00	0.00	H
ATOM	4402	CB	SER	X	473	38.296	99.751	105.093	1.00	0.00	C
ATOM	4403	HB2	SER	X	473	38.963	99.929	105.937	1.00	0.00	H
ATOM	4404	HB3	SER	X	473	37.396	100.303	105.363	1.00	0.00	H
ATOM	4405	OG	SER	X	473	38.015	98.415	104.870	1.00	0.00	O
ATOM	4406	HG	SER	X	473	38.692	97.886	105.296	1.00	0.00	H
ATOM	4407	C	SER	X	473	38.733	101.831	103.627	1.00	0.00	C
ATOM	4408	O	SER	X	473	37.792	102.526	104.011	1.00	0.00	O
ATOM	4409	N	LYS	X	474	39.856	102.423	103.160	1.00	0.00	N
ATOM	4410	H	LYS	X	474	40.630	101.799	102.987	1.00	0.00	H
ATOM	4411	CA	LYS	X	474	39.876	103.887	102.700	1.00	0.00	C
ATOM	4412	HA	LYS	X	474	38.907	104.341	102.913	1.00	0.00	H
ATOM	4413	CB	LYS	X	474	40.885	104.727	103.458	1.00	0.00	C
ATOM	4414	HB2	LYS	X	474	41.918	104.529	103.169	1.00	0.00	H
ATOM	4415	HB3	LYS	X	474	40.782	105.755	103.112	1.00	0.00	H
ATOM	4416	CG	LYS	X	474	40.828	104.690	105.046	1.00	0.00	C
ATOM	4417	HG2	LYS	X	474	41.062	103.712	105.469	1.00	0.00	H
ATOM	4418	HG3	LYS	X	474	41.587	105.402	105.367	1.00	0.00	H
ATOM	4419	CD	LYS	X	474	39.528	105.182	105.689	1.00	0.00	C
ATOM	4420	HD2	LYS	X	474	39.355	106.194	105.325	1.00	0.00	H
ATOM	4421	HD3	LYS	X	474	38.722	104.537	105.341	1.00	0.00	H
ATOM	4422	CE	LYS	X	474	39.666	105.079	107.213	1.00	0.00	C
ATOM	4423	HE2	LYS	X	474	40.158	104.140	107.467	1.00	0.00	H
ATOM	4424	HE3	LYS	X	474	40.332	105.853	107.595	1.00	0.00	H
ATOM	4425	NZ	LYS	X	474	38.320	105.164	107.877	1.00	0.00	N
ATOM	4426	HZ1	LYS	X	474	37.846	106.034	107.681	1.00	0.00	H

ATOM	4427	HZ2	LYS	X	474	37.701	104.425	107.572	1.00	0.00	H
ATOM	4428	HZ3	LYS	X	474	38.372	105.064	108.880	1.00	0.00	H
ATOM	4429	C	LYS	X	474	40.012	103.904	101.231	1.00	0.00	C
ATOM	4430	O	LYS	X	474	39.265	104.584	100.476	1.00	0.00	O
ATOM	4431	N	CYS	X	475	40.956	103.074	100.773	1.00	0.00	N
ATOM	4432	H	CYS	X	475	41.476	102.589	101.490	1.00	0.00	H
ATOM	4433	CA	CYS	X	475	41.326	103.072	99.331	1.00	0.00	C
ATOM	4434	HA	CYS	X	475	41.285	104.127	99.061	1.00	0.00	H
ATOM	4435	CB	CYS	X	475	42.805	102.628	99.168	1.00	0.00	C
ATOM	4436	HB2	CYS	X	475	43.429	103.331	99.720	1.00	0.00	H
ATOM	4437	HB3	CYS	X	475	42.940	101.577	99.419	1.00	0.00	H
ATOM	4438	SG	CYS	X	475	43.429	102.824	97.446	1.00	0.00	S
ATOM	4439	HG	CYS	X	475	42.737	101.834	96.879	1.00	0.00	H
ATOM	4440	C	CYS	X	475	40.355	102.285	98.416	1.00	0.00	C
ATOM	4441	O	CYS	X	475	40.522	102.157	97.201	1.00	0.00	O
ATOM	4442	N	HIE	X	476	39.192	101.817	98.922	1.00	0.00	N
ATOM	4443	H	HIE	X	476	38.949	102.027	99.880	1.00	0.00	H
ATOM	4444	CA	HIE	X	476	38.165	101.078	98.109	1.00	0.00	C
ATOM	4445	HA	HIE	X	476	38.606	100.257	97.545	1.00	0.00	H
ATOM	4446	CB	HIE	X	476	37.055	100.517	99.071	1.00	0.00	C
ATOM	4447	HB2	HIE	X	476	36.271	100.059	98.469	1.00	0.00	H
ATOM	4448	HB3	HIE	X	476	37.593	99.899	99.789	1.00	0.00	H
ATOM	4449	CG	HIE	X	476	36.441	101.635	99.869	1.00	0.00	C
ATOM	4450	ND1	HIE	X	476	37.030	102.337	100.931	1.00	0.00	N
ATOM	4451	CE1	HIE	X	476	36.118	103.259	101.255	1.00	0.00	C
ATOM	4452	HE1	HIE	X	476	36.232	103.831	102.164	1.00	0.00	H
ATOM	4453	NE2	HIE	X	476	35.075	103.141	100.450	1.00	0.00	N
ATOM	4454	HE2	HIE	X	476	34.273	103.756	100.490	1.00	0.00	H
ATOM	4455	CD2	HIE	X	476	35.282	102.216	99.467	1.00	0.00	C
ATOM	4456	HD2	HIE	X	476	34.571	101.935	98.705	1.00	0.00	H
ATOM	4457	C	HIE	X	476	37.401	102.046	97.118	1.00	0.00	C
ATOM	4458	O	HIE	X	476	37.070	101.592	96.008	1.00	0.00	O
ATOM	4459	N	GLN	X	477	37.439	103.347	97.449	1.00	0.00	N
ATOM	4460	H	GLN	X	477	37.863	103.476	98.357	1.00	0.00	H
ATOM	4461	CA	GLN	X	477	37.119	104.400	96.483	1.00	0.00	C
ATOM	4462	HA	GLN	X	477	36.047	104.448	96.289	1.00	0.00	H
ATOM	4463	CB	GLN	X	477	37.346	105.707	97.248	1.00	0.00	C
ATOM	4464	HB2	GLN	X	477	36.600	105.632	98.040	1.00	0.00	H
ATOM	4465	HB3	GLN	X	477	38.363	105.685	97.637	1.00	0.00	H
ATOM	4466	CG	GLN	X	477	37.024	107.032	96.443	1.00	0.00	C
ATOM	4467	HG2	GLN	X	477	37.026	107.868	97.144	1.00	0.00	H
ATOM	4468	HG3	GLN	X	477	37.817	107.210	95.716	1.00	0.00	H
ATOM	4469	CD	GLN	X	477	35.757	107.026	95.675	1.00	0.00	C
ATOM	4470	OE1	GLN	X	477	34.777	106.471	96.191	1.00	0.00	O
ATOM	4471	NE2	GLN	X	477	35.630	107.632	94.557	1.00	0.00	N
ATOM	4472	HE21	GLN	X	477	34.736	107.814	94.124	1.00	0.00	H
ATOM	4473	HE22	GLN	X	477	36.538	107.944	94.240	1.00	0.00	H
ATOM	4474	C	GLN	X	477	37.864	104.482	95.205	1.00	0.00	C
ATOM	4475	O	GLN	X	477	37.197	104.621	94.169	1.00	0.00	O
ATOM	4476	N	GLU	X	478	39.178	104.152	95.285	1.00	0.00	N
ATOM	4477	H	GLU	X	478	39.615	103.929	96.167	1.00	0.00	H
ATOM	4478	CA	GLU	X	478	39.964	104.102	94.007	1.00	0.00	C
ATOM	4479	HA	GLU	X	478	39.598	104.834	93.287	1.00	0.00	H
ATOM	4480	CB	GLU	X	478	41.452	104.350	94.365	1.00	0.00	C
ATOM	4481	HB2	GLU	X	478	41.940	103.584	94.969	1.00	0.00	H
ATOM	4482	HB3	GLU	X	478	42.014	104.323	93.432	1.00	0.00	H
ATOM	4483	CG	GLU	X	478	41.860	105.766	94.894	1.00	0.00	C
ATOM	4484	HG2	GLU	X	478	41.438	105.807	95.898	1.00	0.00	H
ATOM	4485	HG3	GLU	X	478	42.947	105.779	94.811	1.00	0.00	H
ATOM	4486	CD	GLU	X	478	41.216	106.795	94.021	1.00	0.00	C
ATOM	4487	OE1	GLU	X	478	40.527	107.751	94.526	1.00	0.00	O
ATOM	4488	OE2	GLU	X	478	41.325	106.664	92.846	1.00	0.00	O
ATOM	4489	C	GLU	X	478	39.827	102.735	93.259	1.00	0.00	C
ATOM	4490	O	GLU	X	478	39.670	102.646	92.036	1.00	0.00	O
ATOM	4491	N	LEU	X	479	39.805	101.676	94.058	1.00	0.00	N
ATOM	4492	H	LEU	X	479	39.959	101.789	95.050	1.00	0.00	H
ATOM	4493	CA	LEU	X	479	40.038	100.305	93.564	1.00	0.00	C
ATOM	4494	HA	LEU	X	479	40.941	100.234	92.956	1.00	0.00	H
ATOM	4495	CB	LEU	X	479	40.057	99.232	94.734	1.00	0.00	C
ATOM	4496	HB2	LEU	X	479	39.318	99.548	95.472	1.00	0.00	H
ATOM	4497	HB3	LEU	X	479	39.708	98.274	94.348	1.00	0.00	H
ATOM	4498	CG	LEU	X	479	41.479	98.979	95.260	1.00	0.00	C
ATOM	4499	HG	LEU	X	479	41.963	99.925	95.501	1.00	0.00	H
ATOM	4500	CD1	LEU	X	479	41.406	98.137	96.512	1.00	0.00	C
ATOM	4501	HD11	LEU	X	479	40.755	98.693	97.187	1.00	0.00	H
ATOM	4502	HD12	LEU	X	479	40.956	97.158	96.348	1.00	0.00	H
ATOM	4503	HD13	LEU	X	479	42.371	98.011	97.005	1.00	0.00	H
ATOM	4504	CD2	LEU	X	479	42.351	98.079	94.303	1.00	0.00	C
ATOM	4505	HD21	LEU	X	479	42.416	98.644	93.373	1.00	0.00	H
ATOM	4506	HD22	LEU	X	479	43.313	97.878	94.774	1.00	0.00	H
ATOM	4507	HD23	LEU	X	479	41.853	97.137	94.073	1.00	0.00	H
ATOM	4508	C	LEU	X	479	38.886	99.869	92.576	1.00	0.00	C

ATOM	4509	O	LEU	X	479	39.145	99.187	91.588	1.00	0.00	O
ATOM	4510	N	LEU	X	480	37.632	100.427	92.849	1.00	0.00	N
ATOM	4511	H	LEU	X	480	37.554	100.950	93.711	1.00	0.00	H
ATOM	4512	CA	LEU	X	480	36.380	99.970	92.226	1.00	0.00	C
ATOM	4513	HA	LEU	X	480	36.464	99.064	91.627	1.00	0.00	H
ATOM	4514	CB	LEU	X	480	35.382	99.831	93.382	1.00	0.00	C
ATOM	4515	HB2	LEU	X	480	35.347	100.843	93.786	1.00	0.00	H
ATOM	4516	HB3	LEU	X	480	34.390	99.725	92.941	1.00	0.00	H
ATOM	4517	CG	LEU	X	480	35.643	98.860	94.530	1.00	0.00	C
ATOM	4518	HG	LEU	X	480	36.597	98.992	95.038	1.00	0.00	H
ATOM	4519	CD1	LEU	X	480	34.537	98.827	95.585	1.00	0.00	C
ATOM	4520	HD11	LEU	X	480	34.513	99.780	96.115	1.00	0.00	H
ATOM	4521	HD12	LEU	X	480	33.594	98.763	95.042	1.00	0.00	H
ATOM	4522	HD13	LEU	X	480	34.567	98.049	96.348	1.00	0.00	H
ATOM	4523	CD2	LEU	X	480	35.750	97.503	93.778	1.00	0.00	C
ATOM	4524	HD21	LEU	X	480	36.683	97.435	93.218	1.00	0.00	H
ATOM	4525	HD22	LEU	X	480	35.658	96.607	94.393	1.00	0.00	H
ATOM	4526	HD23	LEU	X	480	34.975	97.419	93.018	1.00	0.00	H
ATOM	4527	C	LEU	X	480	35.910	100.949	91.124	1.00	0.00	C
ATOM	4528	O	LEU	X	480	34.942	100.659	90.430	1.00	0.00	O
ATOM	4529	N	LEU	X	481	36.530	102.125	91.046	1.00	0.00	N
ATOM	4530	H	LEU	X	481	37.273	102.328	91.698	1.00	0.00	H
ATOM	4531	CA	LEU	X	481	36.284	103.220	90.056	1.00	0.00	C
ATOM	4532	HA	LEU	X	481	35.214	103.220	89.851	1.00	0.00	H
ATOM	4533	CB	LEU	X	481	36.526	104.552	90.811	1.00	0.00	C
ATOM	4534	HB2	LEU	X	481	35.883	104.612	91.692	1.00	0.00	H
ATOM	4535	HB3	LEU	X	481	37.535	104.514	91.220	1.00	0.00	H
ATOM	4536	CG	LEU	X	481	36.501	105.924	89.984	1.00	0.00	C
ATOM	4537	HG	LEU	X	481	37.139	105.783	89.113	1.00	0.00	H
ATOM	4538	CD1	LEU	X	481	35.160	106.280	89.479	1.00	0.00	C
ATOM	4539	HD11	LEU	X	481	34.573	106.792	90.241	1.00	0.00	H
ATOM	4540	HD12	LEU	X	481	35.271	107.049	88.714	1.00	0.00	H
ATOM	4541	HD13	LEU	X	481	34.515	105.531	89.018	1.00	0.00	H
ATOM	4542	CD2	LEU	X	481	37.037	106.923	90.958	1.00	0.00	C
ATOM	4543	HD21	LEU	X	481	36.972	107.949	90.594	1.00	0.00	H
ATOM	4544	HD22	LEU	X	481	36.491	106.937	91.901	1.00	0.00	H
ATOM	4545	HD23	LEU	X	481	38.089	106.716	91.161	1.00	0.00	H
ATOM	4546	C	LEU	X	481	37.099	103.024	88.762	1.00	0.00	C
ATOM	4547	O	LEU	X	481	36.571	103.231	87.669	1.00	0.00	O
ATOM	4548	N	GLN	X	482	38.362	102.662	88.828	1.00	0.00	N
ATOM	4549	H	GLN	X	482	38.745	102.503	89.749	1.00	0.00	H
ATOM	4550	CA	GLN	X	482	39.144	102.352	87.628	1.00	0.00	C
ATOM	4551	HA	GLN	X	482	39.102	103.191	86.937	1.00	0.00	H
ATOM	4552	CB	GLN	X	482	40.641	102.225	88.067	1.00	0.00	C
ATOM	4553	HB2	GLN	X	482	41.205	102.301	87.136	1.00	0.00	H
ATOM	4554	HB3	GLN	X	482	40.902	103.144	88.592	1.00	0.00	H
ATOM	4555	CG	GLN	X	482	40.985	100.993	88.888	1.00	0.00	C
ATOM	4556	HG2	GLN	X	482	40.333	100.867	89.753	1.00	0.00	H
ATOM	4557	HG3	GLN	X	482	40.810	100.156	88.215	1.00	0.00	H
ATOM	4558	CD	GLN	X	482	42.408	101.014	89.485	1.00	0.00	C
ATOM	4559	OE1	GLN	X	482	43.098	102.013	89.518	1.00	0.00	O
ATOM	4560	NE2	GLN	X	482	42.776	99.848	89.961	1.00	0.00	N
ATOM	4561	HE21	GLN	X	482	43.598	99.821	90.546	1.00	0.00	H
ATOM	4562	HE22	GLN	X	482	42.143	99.061	89.971	1.00	0.00	H
ATOM	4563	C	GLN	X	482	38.585	101.114	86.900	1.00	0.00	C
ATOM	4564	O	GLN	X	482	37.955	100.236	87.477	1.00	0.00	O
ATOM	4565	N	ASP	X	483	38.820	101.057	85.599	1.00	0.00	N
ATOM	4566	H	ASP	X	483	39.101	101.940	85.199	1.00	0.00	H
ATOM	4567	CA	ASP	X	483	38.394	99.933	84.766	1.00	0.00	C
ATOM	4568	HA	ASP	X	483	37.436	99.471	85.006	1.00	0.00	H
ATOM	4569	CB	ASP	X	483	38.414	100.405	83.291	1.00	0.00	C
ATOM	4570	HB2	ASP	X	483	39.450	100.619	83.030	1.00	0.00	H
ATOM	4571	HB3	ASP	X	483	38.080	99.525	82.740	1.00	0.00	H
ATOM	4572	CG	ASP	X	483	37.496	101.643	82.984	1.00	0.00	C
ATOM	4573	OD1	ASP	X	483	37.903	102.837	83.184	1.00	0.00	O
ATOM	4574	OD2	ASP	X	483	36.319	101.446	82.625	1.00	0.00	O
ATOM	4575	C	ASP	X	483	39.357	98.792	84.810	1.00	0.00	C
ATOM	4576	O	ASP	X	483	39.079	97.693	84.365	1.00	0.00	O
ATOM	4577	N	GLY	X	484	40.597	98.947	85.292	1.00	0.00	N
ATOM	4578	H	GLY	X	484	40.758	99.842	85.729	1.00	0.00	H
ATOM	4579	CA	GLY	X	484	41.642	97.958	85.235	1.00	0.00	C
ATOM	4580	HA2	GLY	X	484	41.376	96.986	85.654	1.00	0.00	H
ATOM	4581	HA3	GLY	X	484	41.975	97.681	84.235	1.00	0.00	H
ATOM	4582	C	GLY	X	484	42.926	98.529	85.852	1.00	0.00	C
ATOM	4583	O	GLY	X	484	43.324	99.639	85.575	1.00	0.00	O
ATOM	4584	N	GLY	X	485	43.576	97.770	86.746	1.00	0.00	N
ATOM	4585	H	GLY	X	485	44.228	98.285	87.318	1.00	0.00	H
ATOM	4586	CA	GLY	X	485	43.134	96.439	87.255	1.00	0.00	C
ATOM	4587	HA2	GLY	X	485	42.058	96.341	87.404	1.00	0.00	H
ATOM	4588	HA3	GLY	X	485	43.411	95.624	86.586	1.00	0.00	H
ATOM	4589	C	GLY	X	485	43.875	96.306	88.639	1.00	0.00	C
ATOM	4590	O	GLY	X	485	44.563	97.232	89.090	1.00	0.00	O

ATOM	4591	N	SER	X	486	43.627	95.207	89.353	1.00	0.00	N
ATOM	4592	H	SER	X	486	43.044	94.487	88.950	1.00	0.00	H
ATOM	4593	CA	SER	X	486	44.137	95.081	90.759	1.00	0.00	C
ATOM	4594	HA	SER	X	486	43.658	95.900	91.296	1.00	0.00	H
ATOM	4595	CB	SER	X	486	43.597	93.719	91.426	1.00	0.00	C
ATOM	4596	HB2	SER	X	486	44.120	92.935	90.877	1.00	0.00	H
ATOM	4597	HB3	SER	X	486	43.856	93.633	92.482	1.00	0.00	H
ATOM	4598	OG	SER	X	486	42.170	93.547	91.198	1.00	0.00	O
ATOM	4599	HG	SER	X	486	42.033	92.670	91.566	1.00	0.00	H
ATOM	4600	C	SER	X	486	45.661	95.146	90.912	1.00	0.00	C
ATOM	4601	O	SER	X	486	46.353	94.584	90.082	1.00	0.00	O
ATOM	4602	N	PRO	X	487	46.253	95.854	91.896	1.00	0.00	N
ATOM	4603	CD	PRO	X	487	45.573	96.454	93.022	1.00	0.00	C
ATOM	4604	HD2	PRO	X	487	44.821	95.896	93.579	1.00	0.00	H
ATOM	4605	HD3	PRO	X	487	45.074	97.342	92.635	1.00	0.00	H
ATOM	4606	CG	PRO	X	487	46.744	97.038	93.933	1.00	0.00	C
ATOM	4607	HG2	PRO	X	487	47.066	96.343	94.707	1.00	0.00	H
ATOM	4608	HG3	PRO	X	487	46.373	97.927	94.441	1.00	0.00	H
ATOM	4609	CB	PRO	X	487	47.950	97.285	93.008	1.00	0.00	C
ATOM	4610	HB2	PRO	X	487	48.913	97.204	93.513	1.00	0.00	H
ATOM	4611	HB3	PRO	X	487	47.850	98.307	92.641	1.00	0.00	H
ATOM	4612	CA	PRO	X	487	47.680	96.100	91.989	1.00	0.00	C
ATOM	4613	HA	PRO	X	487	48.055	96.434	91.022	1.00	0.00	H
ATOM	4614	C	PRO	X	487	48.489	94.848	92.396	1.00	0.00	C
ATOM	4615	O	PRO	X	487	48.099	94.099	93.324	1.00	0.00	O
ATOM	4616	N	LYS	X	488	49.654	94.501	91.794	1.00	0.00	N
ATOM	4617	H	LYS	X	488	50.073	95.205	91.205	1.00	0.00	H
ATOM	4618	CA	LYS	X	488	50.302	93.201	91.869	1.00	0.00	C
ATOM	4619	HA	LYS	X	488	49.539	92.423	91.911	1.00	0.00	H
ATOM	4620	CB	LYS	X	488	51.199	93.090	90.569	1.00	0.00	C
ATOM	4621	HB2	LYS	X	488	52.003	93.805	90.398	1.00	0.00	H
ATOM	4622	HB3	LYS	X	488	51.729	92.155	90.750	1.00	0.00	H
ATOM	4623	CG	LYS	X	488	50.499	92.663	89.217	1.00	0.00	C
ATOM	4624	HG2	LYS	X	488	51.271	92.426	88.485	1.00	0.00	H
ATOM	4625	HG3	LYS	X	488	49.823	91.829	89.407	1.00	0.00	H
ATOM	4626	CD	LYS	X	488	49.763	93.839	88.720	1.00	0.00	C
ATOM	4627	HD2	LYS	X	488	48.925	93.921	89.413	1.00	0.00	H
ATOM	4628	HD3	LYS	X	488	50.453	94.674	88.840	1.00	0.00	H
ATOM	4629	CE	LYS	X	488	49.256	93.666	87.271	1.00	0.00	C
ATOM	4630	HE2	LYS	X	488	48.668	92.752	87.178	1.00	0.00	H
ATOM	4631	HE3	LYS	X	488	48.660	94.532	86.986	1.00	0.00	H
ATOM	4632	NZ	LYS	X	488	50.431	93.631	86.313	1.00	0.00	N
ATOM	4633	HZ1	LYS	X	488	50.855	92.716	86.365	1.00	0.00	H
ATOM	4634	HZ2	LYS	X	488	50.297	93.820	85.330	1.00	0.00	H
ATOM	4635	HZ3	LYS	X	488	51.089	94.264	86.743	1.00	0.00	H
ATOM	4636	C	LYS	X	488	51.119	92.933	93.103	1.00	0.00	C
ATOM	4637	O	LYS	X	488	51.254	91.772	93.452	1.00	0.00	O
ATOM	4638	N	THR	X	489	51.664	93.965	93.805	1.00	0.00	N
ATOM	4639	H	THR	X	489	51.480	94.912	93.503	1.00	0.00	H
ATOM	4640	CA	THR	X	489	52.650	93.738	94.954	1.00	0.00	C
ATOM	4641	HA	THR	X	489	52.328	92.843	95.484	1.00	0.00	H
ATOM	4642	CB	THR	X	489	54.090	93.565	94.512	1.00	0.00	C
ATOM	4643	HB	THR	X	489	54.630	92.884	95.168	1.00	0.00	H
ATOM	4644	CG2	THR	X	489	54.319	93.026	93.074	1.00	0.00	C
ATOM	4645	HG21	THR	X	489	54.141	91.953	92.995	1.00	0.00	H
ATOM	4646	HG22	THR	X	489	53.801	93.627	92.325	1.00	0.00	H
ATOM	4647	HG23	THR	X	489	55.380	93.124	92.843	1.00	0.00	H
ATOM	4648	OG1	THR	X	489	54.698	94.845	94.436	1.00	0.00	O
ATOM	4649	HG1	THR	X	489	55.226	94.865	95.238	1.00	0.00	H
ATOM	4650	C	THR	X	489	52.352	94.818	96.000	1.00	0.00	C
ATOM	4651	O	THR	X	489	51.455	95.632	95.766	1.00	0.00	O
ATOM	4652	N	THR	X	490	52.848	94.670	97.217	1.00	0.00	N
ATOM	4653	H	THR	X	490	53.527	93.933	97.333	1.00	0.00	H
ATOM	4654	CA	THR	X	490	52.667	95.674	98.273	1.00	0.00	C
ATOM	4655	HA	THR	X	490	51.597	95.657	98.478	1.00	0.00	H
ATOM	4656	CB	THR	X	490	53.356	95.124	99.555	1.00	0.00	C
ATOM	4657	HB	THR	X	490	54.437	95.072	99.430	1.00	0.00	H
ATOM	4658	CG2	THR	X	490	52.959	96.048	100.739	1.00	0.00	C
ATOM	4659	HG21	THR	X	490	53.204	97.064	100.428	1.00	0.00	H
ATOM	4660	HG22	THR	X	490	51.892	95.950	100.945	1.00	0.00	H
ATOM	4661	HG23	THR	X	490	53.602	95.876	101.601	1.00	0.00	H
ATOM	4662	OG1	THR	X	490	52.847	93.767	99.795	1.00	0.00	O
ATOM	4663	HG1	THR	X	490	52.908	93.598	100.739	1.00	0.00	H
ATOM	4664	C	THR	X	490	53.003	97.133	97.885	1.00	0.00	C
ATOM	4665	O	THR	X	490	52.296	98.060	98.257	1.00	0.00	O
ATOM	4666	N	THR	X	491	54.128	97.215	97.123	1.00	0.00	N
ATOM	4667	H	THR	X	491	54.682	96.378	97.009	1.00	0.00	H
ATOM	4668	CA	THR	X	491	54.545	98.493	96.563	1.00	0.00	C
ATOM	4669	HA	THR	X	491	54.705	99.112	97.447	1.00	0.00	H
ATOM	4670	CB	THR	X	491	55.924	98.355	95.782	1.00	0.00	C
ATOM	4671	HB	THR	X	491	55.923	97.766	94.865	1.00	0.00	H
ATOM	4672	CG2	THR	X	491	56.571	99.705	95.538	1.00	0.00	C

ATOM	4673	HG21	THR	X	491	55.986	100.299	94.834	1.00	0.00	H
ATOM	4674	HG22	THR	X	491	56.845	100.298	96.411	1.00	0.00	H
ATOM	4675	HG23	THR	X	491	57.508	99.479	95.027	1.00	0.00	H
ATOM	4676	OG1	THR	X	491	56.842	97.712	96.583	1.00	0.00	O
ATOM	4677	HG1	THR	X	491	56.588	96.787	96.592	1.00	0.00	H
ATOM	4678	C	THR	X	491	53.485	99.116	95.717	1.00	0.00	C
ATOM	4679	O	THR	X	491	53.235	100.293	95.841	1.00	0.00	O
ATOM	4680	N	ASP	X	492	52.854	98.349	94.831	1.00	0.00	N
ATOM	4681	H	ASP	X	492	53.023	97.363	94.969	1.00	0.00	H
ATOM	4682	CA	ASP	X	492	51.922	98.751	93.888	1.00	0.00	C
ATOM	4683	HA	ASP	X	492	52.299	99.636	93.375	1.00	0.00	H
ATOM	4684	CB	ASP	X	492	51.677	97.557	92.897	1.00	0.00	C
ATOM	4685	HB2	ASP	X	492	52.618	97.069	92.640	1.00	0.00	H
ATOM	4686	HB3	ASP	X	492	51.050	96.802	93.372	1.00	0.00	H
ATOM	4687	CG	ASP	X	492	51.030	98.015	91.575	1.00	0.00	C
ATOM	4688	OD1	ASP	X	492	51.033	99.214	91.335	1.00	0.00	O
ATOM	4689	OD2	ASP	X	492	50.594	97.179	90.812	1.00	0.00	O
ATOM	4690	C	ASP	X	492	50.608	99.104	94.531	1.00	0.00	C
ATOM	4691	O	ASP	X	492	49.985	100.129	94.159	1.00	0.00	O
ATOM	4692	N	MET	X	493	50.093	98.360	95.562	1.00	0.00	N
ATOM	4693	H	MET	X	493	50.643	97.547	95.805	1.00	0.00	H
ATOM	4694	CA	MET	X	493	49.116	98.791	96.516	1.00	0.00	C
ATOM	4695	HA	MET	X	493	48.249	98.969	95.880	1.00	0.00	H
ATOM	4696	CB	MET	X	493	48.776	97.705	97.467	1.00	0.00	C
ATOM	4697	HB2	MET	X	493	48.559	96.776	96.939	1.00	0.00	H
ATOM	4698	HB3	MET	X	493	49.666	97.415	98.026	1.00	0.00	H
ATOM	4699	CG	MET	X	493	47.564	98.068	98.354	1.00	0.00	C
ATOM	4700	HG2	MET	X	493	47.466	97.315	99.136	1.00	0.00	H
ATOM	4701	HG3	MET	X	493	47.647	98.993	98.925	1.00	0.00	H
ATOM	4702	SD	MET	X	493	46.023	98.062	97.449	1.00	0.00	S
ATOM	4703	CE	MET	X	493	45.218	99.553	97.976	1.00	0.00	C
ATOM	4704	HE1	MET	X	493	45.350	99.764	99.038	1.00	0.00	H
ATOM	4705	HE2	MET	X	493	45.648	100.358	97.380	1.00	0.00	H
ATOM	4706	HE3	MET	X	493	44.159	99.675	97.751	1.00	0.00	H
ATOM	4707	C	MET	X	493	49.466	100.143	97.224	1.00	0.00	C
ATOM	4708	O	MET	X	493	48.583	100.945	97.373	1.00	0.00	O
ATOM	4709	N	TYR	X	494	50.664	100.283	97.757	1.00	0.00	N
ATOM	4710	H	TYR	X	494	51.313	99.548	97.511	1.00	0.00	H
ATOM	4711	CA	TYR	X	494	51.026	101.434	98.592	1.00	0.00	C
ATOM	4712	HA	TYR	X	494	50.315	101.798	99.336	1.00	0.00	H
ATOM	4713	CB	TYR	X	494	52.268	101.124	99.462	1.00	0.00	C
ATOM	4714	HB2	TYR	X	494	52.946	100.622	98.774	1.00	0.00	H
ATOM	4715	HB3	TYR	X	494	52.810	102.002	99.815	1.00	0.00	H
ATOM	4716	CG	TYR	X	494	52.030	100.249	100.733	1.00	0.00	C
ATOM	4717	CD1	TYR	X	494	50.866	99.430	100.958	1.00	0.00	C
ATOM	4718	HD1	TYR	X	494	50.238	99.227	100.102	1.00	0.00	H
ATOM	4719	CE1	TYR	X	494	50.660	98.769	102.165	1.00	0.00	C
ATOM	4720	HE1	TYR	X	494	49.768	98.197	102.377	1.00	0.00	H
ATOM	4721	CZ	TYR	X	494	51.553	99.029	103.208	1.00	0.00	C
ATOM	4722	OH	TYR	X	494	51.275	98.443	104.399	1.00	0.00	O
ATOM	4723	HH	TYR	X	494	51.744	98.876	105.116	1.00	0.00	H
ATOM	4724	CE2	TYR	X	494	52.651	99.873	103.041	1.00	0.00	C
ATOM	4725	HE2	TYR	X	494	53.243	100.081	103.921	1.00	0.00	H
ATOM	4726	CD2	TYR	X	494	52.875	100.489	101.795	1.00	0.00	C
ATOM	4727	HD2	TYR	X	494	53.787	101.024	101.579	1.00	0.00	H
ATOM	4728	C	TYR	X	494	51.187	102.697	97.717	1.00	0.00	C
ATOM	4729	O	TYR	X	494	50.942	103.810	98.201	1.00	0.00	O
ATOM	4730	N	LEU	X	495	51.411	102.548	96.403	1.00	0.00	N
ATOM	4731	H	LEU	X	495	51.525	101.680	95.900	1.00	0.00	H
ATOM	4732	CA	LEU	X	495	51.441	103.663	95.420	1.00	0.00	C
ATOM	4733	HA	LEU	X	495	51.868	104.564	95.860	1.00	0.00	H
ATOM	4734	CB	LEU	X	495	52.261	103.327	94.146	1.00	0.00	C
ATOM	4735	HB2	LEU	X	495	51.895	102.400	93.705	1.00	0.00	H
ATOM	4736	HB3	LEU	X	495	52.117	104.099	93.388	1.00	0.00	H
ATOM	4737	CG	LEU	X	495	53.812	103.288	94.381	1.00	0.00	C
ATOM	4738	HG	LEU	X	495	53.957	102.733	95.309	1.00	0.00	H
ATOM	4739	CD1	LEU	X	495	54.469	102.601	93.183	1.00	0.00	C
ATOM	4740	HD11	LEU	X	495	54.192	103.178	92.300	1.00	0.00	H
ATOM	4741	HD12	LEU	X	495	55.548	102.576	93.326	1.00	0.00	H
ATOM	4742	HD13	LEU	X	495	54.236	101.536	93.214	1.00	0.00	H
ATOM	4743	CD2	LEU	X	495	54.328	104.718	94.426	1.00	0.00	C
ATOM	4744	HD21	LEU	X	495	55.361	104.832	94.752	1.00	0.00	H
ATOM	4745	HD22	LEU	X	495	54.146	105.148	93.441	1.00	0.00	H
ATOM	4746	HD23	LEU	X	495	53.769	105.308	95.152	1.00	0.00	H
ATOM	4747	C	LEU	X	495	50.018	104.039	95.014	1.00	0.00	C
ATOM	4748	O	LEU	X	495	49.865	105.194	94.682	1.00	0.00	O
ATOM	4749	N	LEU	X	496	48.989	103.155	95.030	1.00	0.00	N
ATOM	4750	H	LEU	X	496	49.191	102.194	95.267	1.00	0.00	H
ATOM	4751	CA	LEU	X	496	47.554	103.544	94.942	1.00	0.00	C
ATOM	4752	HA	LEU	X	496	47.553	104.240	94.101	1.00	0.00	H
ATOM	4753	CB	LEU	X	496	46.804	102.290	94.489	1.00	0.00	C
ATOM	4754	HB2	LEU	X	496	47.233	101.937	93.550	1.00	0.00	H

ATOM	4755	HB3	LEU	X	496	46.771	101.430	95.159	1.00	0.00	H
ATOM	4756	CG	LEU	X	496	45.310	102.485	94.106	1.00	0.00	C
ATOM	4757	HG	LEU	X	496	44.721	102.665	95.006	1.00	0.00	H
ATOM	4758	CD1	LEU	X	496	45.087	103.487	92.981	1.00	0.00	C
ATOM	4759	HD11	LEU	X	496	45.741	103.194	92.160	1.00	0.00	H
ATOM	4760	HD12	LEU	X	496	44.044	103.497	92.664	1.00	0.00	H
ATOM	4761	HD13	LEU	X	496	45.384	104.517	93.178	1.00	0.00	H
ATOM	4762	CD2	LEU	X	496	44.877	101.113	93.608	1.00	0.00	C
ATOM	4763	HD21	LEU	X	496	43.814	101.296	93.451	1.00	0.00	H
ATOM	4764	HD22	LEU	X	496	45.370	100.840	92.675	1.00	0.00	H
ATOM	4765	HD23	LEU	X	496	44.966	100.379	94.407	1.00	0.00	H
ATOM	4766	C	LEU	X	496	47.062	104.286	96.173	1.00	0.00	C
ATOM	4767	O	LEU	X	496	46.418	105.314	96.023	1.00	0.00	O
ATOM	4768	N	ILE	X	497	47.387	103.837	97.434	1.00	0.00	N
ATOM	4769	H	ILE	X	497	47.955	103.006	97.503	1.00	0.00	H
ATOM	4770	CA	ILE	X	497	47.096	104.529	98.699	1.00	0.00	C
ATOM	4771	HA	ILE	X	497	46.022	104.709	98.747	1.00	0.00	H
ATOM	4772	CB	ILE	X	497	47.564	103.634	99.906	1.00	0.00	C
ATOM	4773	HB	ILE	X	497	48.597	103.288	99.844	1.00	0.00	H
ATOM	4774	CG2	ILE	X	497	47.500	104.424	101.240	1.00	0.00	C
ATOM	4775	HG21	ILE	X	497	48.072	105.351	101.276	1.00	0.00	H
ATOM	4776	HG22	ILE	X	497	46.458	104.721	101.356	1.00	0.00	H
ATOM	4777	HG23	ILE	X	497	47.667	103.752	102.083	1.00	0.00	H
ATOM	4778	CG1	ILE	X	497	46.721	102.370	99.922	1.00	0.00	C
ATOM	4779	HG12	ILE	X	497	45.750	102.557	100.381	1.00	0.00	H
ATOM	4780	HG13	ILE	X	497	46.465	102.030	98.918	1.00	0.00	H
ATOM	4781	CD1	ILE	X	497	47.306	101.135	100.617	1.00	0.00	C
ATOM	4782	HD11	ILE	X	497	47.775	101.509	101.527	1.00	0.00	H
ATOM	4783	HD12	ILE	X	497	46.563	100.374	100.856	1.00	0.00	H
ATOM	4784	HD13	ILE	X	497	48.110	100.691	100.028	1.00	0.00	H
ATOM	4785	C	ILE	X	497	47.761	105.885	98.623	1.00	0.00	C
ATOM	4786	O	ILE	X	497	47.187	106.884	99.090	1.00	0.00	O
ATOM	4787	N	LEU	X	498	49.002	105.982	98.177	1.00	0.00	N
ATOM	4788	H	LEU	X	498	49.519	105.189	97.826	1.00	0.00	H
ATOM	4789	CA	LEU	X	498	49.724	107.305	97.989	1.00	0.00	C
ATOM	4790	HA	LEU	X	498	49.818	107.746	98.983	1.00	0.00	H
ATOM	4791	CB	LEU	X	498	51.085	107.180	97.222	1.00	0.00	C
ATOM	4792	HB2	LEU	X	498	51.620	106.331	97.643	1.00	0.00	H
ATOM	4793	HB3	LEU	X	498	50.993	106.896	96.174	1.00	0.00	H
ATOM	4794	CG	LEU	X	498	52.072	108.397	97.179	1.00	0.00	C
ATOM	4795	HG	LEU	X	498	52.012	108.782	98.197	1.00	0.00	H
ATOM	4796	CD1	LEU	X	498	53.474	107.980	96.959	1.00	0.00	C
ATOM	4797	HD11	LEU	X	498	53.789	107.326	97.771	1.00	0.00	H
ATOM	4798	HD12	LEU	X	498	53.613	107.467	96.006	1.00	0.00	H
ATOM	4799	HD13	LEU	X	498	54.108	108.852	96.796	1.00	0.00	H
ATOM	4800	CD2	LEU	X	498	51.532	109.377	96.111	1.00	0.00	C
ATOM	4801	HD21	LEU	X	498	52.174	110.172	95.730	1.00	0.00	H
ATOM	4802	HD22	LEU	X	498	51.104	108.795	95.293	1.00	0.00	H
ATOM	4803	HD23	LEU	X	498	50.749	109.979	96.571	1.00	0.00	H
ATOM	4804	C	LEU	X	498	48.809	108.278	97.123	1.00	0.00	C
ATOM	4805	O	LEU	X	498	48.456	109.328	97.641	1.00	0.00	O
ATOM	4806	N	GLN	X	499	48.350	107.862	95.962	1.00	0.00	N
ATOM	4807	H	GLN	X	499	48.422	106.867	95.807	1.00	0.00	H
ATOM	4808	CA	GLN	X	499	47.581	108.690	95.010	1.00	0.00	C
ATOM	4809	HA	GLN	X	499	48.040	109.676	94.932	1.00	0.00	H
ATOM	4810	CB	GLN	X	499	47.718	108.066	93.601	1.00	0.00	C
ATOM	4811	HB2	GLN	X	499	47.605	106.985	93.670	1.00	0.00	H
ATOM	4812	HB3	GLN	X	499	46.925	108.481	92.979	1.00	0.00	H
ATOM	4813	CG	GLN	X	499	49.033	108.367	92.809	1.00	0.00	C
ATOM	4814	HG2	GLN	X	499	49.056	109.409	92.494	1.00	0.00	H
ATOM	4815	HG3	GLN	X	499	49.855	108.193	93.504	1.00	0.00	H
ATOM	4816	CD	GLN	X	499	49.280	107.349	91.754	1.00	0.00	C
ATOM	4817	OE1	GLN	X	499	48.909	107.577	90.649	1.00	0.00	O
ATOM	4818	NE2	GLN	X	499	49.799	106.156	92.054	1.00	0.00	N
ATOM	4819	HE21	GLN	X	499	49.876	105.440	91.347	1.00	0.00	H
ATOM	4820	HE22	GLN	X	499	49.888	105.922	93.033	1.00	0.00	H
ATOM	4821	C	GLN	X	499	46.110	108.898	95.435	1.00	0.00	C
ATOM	4822	O	GLN	X	499	45.666	110.015	95.304	1.00	0.00	O
ATOM	4823	N	HIE	X	500	45.500	107.958	96.229	1.00	0.00	N
ATOM	4824	H	HIE	X	500	46.005	107.101	96.403	1.00	0.00	H
ATOM	4825	CA	HIE	X	500	44.168	108.155	96.883	1.00	0.00	C
ATOM	4826	HA	HIE	X	500	43.491	108.174	96.029	1.00	0.00	H
ATOM	4827	CB	HIE	X	500	43.871	106.843	97.700	1.00	0.00	C
ATOM	4828	HB2	HIE	X	500	43.783	106.011	97.000	1.00	0.00	H
ATOM	4829	HB3	HIE	X	500	44.728	106.659	98.346	1.00	0.00	H
ATOM	4830	CG	HIE	X	500	42.698	106.964	98.566	1.00	0.00	C
ATOM	4831	ND1	HIE	X	500	41.377	107.250	98.153	1.00	0.00	N
ATOM	4832	CE1	HIE	X	500	40.688	107.449	99.252	1.00	0.00	C
ATOM	4833	HE1	HIE	X	500	39.665	107.793	99.271	1.00	0.00	H
ATOM	4834	NE2	HIE	X	500	41.358	107.252	100.304	1.00	0.00	N
ATOM	4835	HE2	HIE	X	500	41.009	107.475	101.225	1.00	0.00	H
ATOM	4836	CD2	HIE	X	500	42.650	106.842	99.918	1.00	0.00	C

ATOM	4837	HD2	HIE	X	500	43.479	106.731	100.601	1.00	0.00	H
ATOM	4838	C	HIE	X	500	44.117	109.432	97.668	1.00	0.00	C
ATOM	4839	O	HIE	X	500	43.180	110.179	97.604	1.00	0.00	O
ATOM	4840	N	PHE	X	501	45.094	109.770	98.466	1.00	0.00	N
ATOM	4841	H	PHE	X	501	45.820	109.072	98.530	1.00	0.00	H
ATOM	4842	CA	PHE	X	501	45.167	110.992	99.246	1.00	0.00	C
ATOM	4843	HA	PHE	X	501	44.167	111.248	99.598	1.00	0.00	H
ATOM	4844	CB	PHE	X	501	45.881	110.733	100.577	1.00	0.00	C
ATOM	4845	HB2	PHE	X	501	46.933	110.504	100.410	1.00	0.00	H
ATOM	4846	HB3	PHE	X	501	45.913	111.729	101.022	1.00	0.00	H
ATOM	4847	CG	PHE	X	501	45.271	109.700	101.555	1.00	0.00	C
ATOM	4848	CD1	PHE	X	501	45.916	108.516	101.877	1.00	0.00	C
ATOM	4849	HD1	PHE	X	501	46.723	108.094	101.298	1.00	0.00	H
ATOM	4850	CE1	PHE	X	501	45.442	107.613	102.890	1.00	0.00	C
ATOM	4851	HE1	PHE	X	501	45.976	106.704	103.119	1.00	0.00	H
ATOM	4852	CZ	PHE	X	501	44.318	108.014	103.621	1.00	0.00	C
ATOM	4853	HZ	PHE	X	501	44.023	107.512	104.530	1.00	0.00	H
ATOM	4854	CE2	PHE	X	501	43.585	109.134	103.256	1.00	0.00	C
ATOM	4855	HE2	PHE	X	501	42.598	109.198	103.689	1.00	0.00	H
ATOM	4856	CD2	PHE	X	501	44.058	109.989	102.224	1.00	0.00	C
ATOM	4857	HD2	PHE	X	501	43.436	110.833	101.964	1.00	0.00	H
ATOM	4858	C	PHE	X	501	45.570	112.254	98.615	1.00	0.00	C
ATOM	4859	O	PHE	X	501	45.389	113.381	99.110	1.00	0.00	O
ATOM	4860	N	LEU	X	502	45.889	112.166	97.310	1.00	0.00	N
ATOM	4861	H	LEU	X	502	45.780	111.214	96.992	1.00	0.00	H
ATOM	4862	CA	LEU	X	502	46.075	113.196	96.280	1.00	0.00	C
ATOM	4863	HA	LEU	X	502	46.304	114.155	96.744	1.00	0.00	H
ATOM	4864	CB	LEU	X	502	47.182	112.999	95.306	1.00	0.00	C
ATOM	4865	HB2	LEU	X	502	46.936	112.176	94.636	1.00	0.00	H
ATOM	4866	HB3	LEU	X	502	47.223	113.914	94.714	1.00	0.00	H
ATOM	4867	CG	LEU	X	502	48.544	112.693	95.873	1.00	0.00	C
ATOM	4868	HG	LEU	X	502	48.522	111.721	96.364	1.00	0.00	H
ATOM	4869	CD1	LEU	X	502	49.662	112.577	94.806	1.00	0.00	C
ATOM	4870	HD11	LEU	X	502	50.598	112.644	95.359	1.00	0.00	H
ATOM	4871	HD12	LEU	X	502	49.530	111.663	94.228	1.00	0.00	H
ATOM	4872	HD13	LEU	X	502	49.504	113.432	94.149	1.00	0.00	H
ATOM	4873	CD2	LEU	X	502	49.114	113.619	96.967	1.00	0.00	C
ATOM	4874	HD21	LEU	X	502	48.491	113.582	97.860	1.00	0.00	H
ATOM	4875	HD22	LEU	X	502	50.142	113.411	97.266	1.00	0.00	H
ATOM	4876	HD23	LEU	X	502	48.975	114.648	96.634	1.00	0.00	H
ATOM	4877	C	LEU	X	502	44.794	113.518	95.463	1.00	0.00	C
ATOM	4878	O	LEU	X	502	44.386	114.675	95.358	1.00	0.00	O
ATOM	4879	N	ARG	X	503	44.135	112.387	95.058	1.00	0.00	N
ATOM	4880	H	ARG	X	503	44.600	111.494	95.144	1.00	0.00	H
ATOM	4881	CA	ARG	X	503	42.815	112.380	94.433	1.00	0.00	C
ATOM	4882	HA	ARG	X	503	42.829	113.133	93.644	1.00	0.00	H
ATOM	4883	CB	ARG	X	503	42.532	111.006	93.782	1.00	0.00	C
ATOM	4884	HB2	ARG	X	503	42.647	110.203	94.508	1.00	0.00	H
ATOM	4885	HB3	ARG	X	503	41.532	111.100	93.356	1.00	0.00	H
ATOM	4886	CG	ARG	X	503	43.387	110.682	92.583	1.00	0.00	C
ATOM	4887	HG2	ARG	X	503	43.084	111.291	91.729	1.00	0.00	H
ATOM	4888	HG3	ARG	X	503	44.443	110.875	92.770	1.00	0.00	H
ATOM	4889	CD	ARG	X	503	43.289	109.222	92.283	1.00	0.00	C
ATOM	4890	HD2	ARG	X	503	43.593	108.677	93.176	1.00	0.00	H
ATOM	4891	HD3	ARG	X	503	42.270	108.972	91.989	1.00	0.00	H
ATOM	4892	NE	ARG	X	503	44.253	108.847	91.194	1.00	0.00	N
ATOM	4893	HE	ARG	X	503	44.455	109.697	90.688	1.00	0.00	H
ATOM	4894	CZ	ARG	X	503	44.649	107.655	90.800	1.00	0.00	C
ATOM	4895	NH1	ARG	X	503	44.072	106.580	91.218	1.00	0.00	N
ATOM	4896	HH11	ARG	X	503	43.346	106.561	91.920	1.00	0.00	H
ATOM	4897	HH12	ARG	X	503	44.330	105.746	90.709	1.00	0.00	H
ATOM	4898	NH2	ARG	X	503	45.677	107.494	90.023	1.00	0.00	N
ATOM	4899	HH21	ARG	X	503	46.210	108.234	89.589	1.00	0.00	H
ATOM	4900	HH22	ARG	X	503	45.918	106.539	89.801	1.00	0.00	H
ATOM	4901	C	ARG	X	503	41.679	112.790	95.401	1.00	0.00	C
ATOM	4902	O	ARG	X	503	40.835	113.521	94.948	1.00	0.00	O
ATOM	4903	N	HIE	X	504	41.814	112.474	96.678	1.00	0.00	N
ATOM	4904	H	HIE	X	504	42.562	111.864	96.975	1.00	0.00	H
ATOM	4905	CA	HIE	X	504	40.909	112.967	97.662	1.00	0.00	C
ATOM	4906	HA	HIE	X	504	39.878	112.712	97.420	1.00	0.00	H
ATOM	4907	CB	HIE	X	504	41.272	112.363	98.996	1.00	0.00	C
ATOM	4908	HB2	HIE	X	504	40.909	111.336	99.040	1.00	0.00	H
ATOM	4909	HB3	HIE	X	504	42.358	112.366	99.091	1.00	0.00	H
ATOM	4910	CG	HIE	X	504	40.580	112.909	100.208	1.00	0.00	C
ATOM	4911	ND1	HIE	X	504	39.199	112.947	100.509	1.00	0.00	N
ATOM	4912	CE1	HIE	X	504	39.115	113.693	101.612	1.00	0.00	C
ATOM	4913	HE1	HIE	X	504	38.209	113.977	102.129	1.00	0.00	H
ATOM	4914	NE2	HIE	X	504	40.327	114.027	102.149	1.00	0.00	N
ATOM	4915	HE2	HIE	X	504	40.429	114.608	102.969	1.00	0.00	H
ATOM	4916	CD2	HIE	X	504	41.245	113.511	101.228	1.00	0.00	C
ATOM	4917	HD2	HIE	X	504	42.306	113.711	101.256	1.00	0.00	H
ATOM	4918	C	HIE	X	504	40.952	114.492	97.998	1.00	0.00	C

ATOM	4919	O	HIE	X	504	39.879	115.173	98.019	1.00	0.00	O
ATOM	4920	N	ALA	X	505	42.138	115.129	97.987	1.00	0.00	N
ATOM	4921	H	ALA	X	505	42.989	114.603	97.860	1.00	0.00	H
ATOM	4922	CA	ALA	X	505	42.317	116.538	98.189	1.00	0.00	C
ATOM	4923	HA	ALA	X	505	41.872	116.913	99.110	1.00	0.00	H
ATOM	4924	CB	ALA	X	505	43.809	116.765	98.406	1.00	0.00	C
ATOM	4925	HB1	ALA	X	505	43.894	117.845	98.274	1.00	0.00	H
ATOM	4926	HB2	ALA	X	505	44.213	116.282	99.294	1.00	0.00	H
ATOM	4927	HB3	ALA	X	505	44.234	116.216	97.566	1.00	0.00	H
ATOM	4928	C	ALA	X	505	41.893	117.472	97.006	1.00	0.00	C
ATOM	4929	O	ALA	X	505	41.912	118.700	97.150	1.00	0.00	O
ATOM	4930	N	SER	X	506	41.608	116.825	95.842	1.00	0.00	N
ATOM	4931	H	SER	X	506	41.667	115.818	95.858	1.00	0.00	H
ATOM	4932	CA	SER	X	506	41.166	117.382	94.574	1.00	0.00	C
ATOM	4933	HA	SER	X	506	41.131	116.509	93.922	1.00	0.00	H
ATOM	4934	CB	SER	X	506	39.703	117.863	94.766	1.00	0.00	C
ATOM	4935	HB2	SER	X	506	39.156	117.082	95.293	1.00	0.00	H
ATOM	4936	HB3	SER	X	506	39.641	118.634	95.533	1.00	0.00	H
ATOM	4937	OG	SER	X	506	38.993	118.240	93.557	1.00	0.00	O
ATOM	4938	HG	SER	X	506	38.153	118.649	93.776	1.00	0.00	H
ATOM	4939	C	SER	X	506	42.070	118.502	94.035	1.00	0.00	C
ATOM	4940	O	SER	X	506	43.072	118.858	94.656	1.00	0.00	O
ATOM	4941	N	LEU	X	507	41.620	119.022	92.855	1.00	0.00	N
ATOM	4942	H	LEU	X	507	40.657	118.811	92.636	1.00	0.00	H
ATOM	4943	CA	LEU	X	507	42.219	120.085	92.114	1.00	0.00	C
ATOM	4944	HA	LEU	X	507	43.170	120.334	92.583	1.00	0.00	H
ATOM	4945	CB	LEU	X	507	42.374	119.630	90.676	1.00	0.00	C
ATOM	4946	HB2	LEU	X	507	41.458	119.296	90.188	1.00	0.00	H
ATOM	4947	HB3	LEU	X	507	42.642	120.598	90.254	1.00	0.00	H
ATOM	4948	CG	LEU	X	507	43.666	118.757	90.343	1.00	0.00	C
ATOM	4949	HG	LEU	X	507	43.813	118.158	91.240	1.00	0.00	H
ATOM	4950	CD1	LEU	X	507	43.303	117.896	89.156	1.00	0.00	C
ATOM	4951	HD11	LEU	X	507	43.196	118.508	88.260	1.00	0.00	H
ATOM	4952	HD12	LEU	X	507	44.117	117.173	89.105	1.00	0.00	H
ATOM	4953	HD13	LEU	X	507	42.432	117.318	89.463	1.00	0.00	H
ATOM	4954	CD2	LEU	X	507	44.928	119.525	89.966	1.00	0.00	C
ATOM	4955	HD21	LEU	X	507	44.872	119.916	88.950	1.00	0.00	H
ATOM	4956	HD22	LEU	X	507	45.121	120.393	90.597	1.00	0.00	H
ATOM	4957	HD23	LEU	X	507	45.818	118.907	90.078	1.00	0.00	H
ATOM	4958	C	LEU	X	507	41.391	121.361	92.167	1.00	0.00	C
ATOM	4959	O	LEU	X	507	40.143	121.253	92.166	1.00	0.00	O
ATOM	4960	N	PRO	X	508	42.056	122.524	92.125	1.00	0.00	N
ATOM	4961	CD	PRO	X	508	43.479	122.804	92.069	1.00	0.00	C
ATOM	4962	HD2	PRO	X	508	43.866	122.681	91.057	1.00	0.00	H
ATOM	4963	HD3	PRO	X	508	44.000	122.200	92.811	1.00	0.00	H
ATOM	4964	CG	PRO	X	508	43.663	124.216	92.557	1.00	0.00	C
ATOM	4965	HG2	PRO	X	508	44.503	124.741	92.103	1.00	0.00	H
ATOM	4966	HG3	PRO	X	508	43.712	124.254	93.645	1.00	0.00	H
ATOM	4967	CB	PRO	X	508	42.388	124.946	92.123	1.00	0.00	C
ATOM	4968	HB2	PRO	X	508	42.389	125.290	91.090	1.00	0.00	H
ATOM	4969	HB3	PRO	X	508	42.096	125.760	92.784	1.00	0.00	H
ATOM	4970	CA	PRO	X	508	41.396	123.811	92.271	1.00	0.00	C
ATOM	4971	HA	PRO	X	508	41.083	123.839	93.315	1.00	0.00	H
ATOM	4972	C	PRO	X	508	40.220	123.990	91.319	1.00	0.00	C
ATOM	4973	O	PRO	X	508	39.280	124.776	91.574	1.00	0.00	O
ATOM	4974	N	ASP	X	509	40.224	123.330	90.107	1.00	0.00	N
ATOM	4975	H	ASP	X	509	41.000	122.769	89.789	1.00	0.00	H
ATOM	4976	CA	ASP	X	509	38.954	123.410	89.239	1.00	0.00	C
ATOM	4977	HA	ASP	X	509	38.168	123.604	89.970	1.00	0.00	H
ATOM	4978	CB	ASP	X	509	39.025	124.753	88.464	1.00	0.00	C
ATOM	4979	HB2	ASP	X	509	38.039	125.043	88.104	1.00	0.00	H
ATOM	4980	HB3	ASP	X	509	39.382	125.489	89.183	1.00	0.00	H
ATOM	4981	CG	ASP	X	509	39.919	124.582	87.212	1.00	0.00	C
ATOM	4982	OD1	ASP	X	509	39.405	124.782	86.111	1.00	0.00	O
ATOM	4983	OD2	ASP	X	509	41.090	124.252	87.356	1.00	0.00	O
ATOM	4984	C	ASP	X	509	38.639	122.154	88.375	1.00	0.00	C
ATOM	4985	O	ASP	X	509	37.501	121.796	87.999	1.00	0.00	O
ATOM	4986	N	SER	X	510	39.758	121.453	87.989	1.00	0.00	N
ATOM	4987	H	SER	X	510	40.697	121.644	88.309	1.00	0.00	H
ATOM	4988	CA	SER	X	510	39.700	120.276	87.093	1.00	0.00	C
ATOM	4989	HA	SER	X	510	38.888	120.510	86.403	1.00	0.00	H
ATOM	4990	CB	SER	X	510	40.911	120.270	86.152	1.00	0.00	C
ATOM	4991	HB2	SER	X	510	40.991	121.263	85.709	1.00	0.00	H
ATOM	4992	HB3	SER	X	510	41.738	119.864	86.731	1.00	0.00	H
ATOM	4993	OG	SER	X	510	40.748	119.273	85.159	1.00	0.00	O
ATOM	4994	HG	SER	X	510	41.475	119.348	84.537	1.00	0.00	H
ATOM	4995	C	SER	X	510	39.295	118.933	87.796	1.00	0.00	C
ATOM	4996	O	SER	X	510	39.359	118.883	88.984	1.00	0.00	O
ATOM	4997	N	ALA	X	511	38.763	117.890	87.097	1.00	0.00	N
ATOM	4998	H	ALA	X	511	38.571	118.103	86.129	1.00	0.00	H
ATOM	4999	CA	ALA	X	511	38.307	116.636	87.608	1.00	0.00	C
ATOM	5000	HA	ALA	X	511	37.734	116.709	88.532	1.00	0.00	H

ATOM	5001	CB	ALA	X	511	37.416	116.020	86.503	1.00	0.00	C
ATOM	5002	HB1	ALA	X	511	36.829	115.215	86.944	1.00	0.00	H
ATOM	5003	HB2	ALA	X	511	36.675	116.734	86.146	1.00	0.00	H
ATOM	5004	HB3	ALA	X	511	38.019	115.604	85.696	1.00	0.00	H
ATOM	5005	C	ALA	X	511	39.441	115.607	87.954	1.00	0.00	C
ATOM	5006	O	ALA	X	511	40.187	115.166	87.120	1.00	0.00	O
ATOM	5007	N	SER	X	512	39.543	115.212	89.240	1.00	0.00	N
ATOM	5008	H	SER	X	512	38.867	115.498	89.933	1.00	0.00	H
ATOM	5009	CA	SER	X	512	40.640	114.529	89.858	1.00	0.00	C
ATOM	5010	HA	SER	X	512	41.560	115.045	89.587	1.00	0.00	H
ATOM	5011	CB	SER	X	512	40.564	114.810	91.390	1.00	0.00	C
ATOM	5012	HB2	SER	X	512	41.447	114.428	91.903	1.00	0.00	H
ATOM	5013	HB3	SER	X	512	40.630	115.885	91.560	1.00	0.00	H
ATOM	5014	OG	SER	X	512	39.443	114.317	92.057	1.00	0.00	O
ATOM	5015	HG	SER	X	512	38.734	114.945	91.894	1.00	0.00	H
ATOM	5016	C	SER	X	512	40.755	112.998	89.547	1.00	0.00	C
ATOM	5017	O	SER	X	512	41.757	112.337	89.893	1.00	0.00	O
ATOM	5018	N	GLN	X	513	39.801	112.387	88.846	1.00	0.00	N
ATOM	5019	H	GLN	X	513	39.013	112.898	88.471	1.00	0.00	H
ATOM	5020	CA	GLN	X	513	39.671	110.926	88.794	1.00	0.00	C
ATOM	5021	HA	GLN	X	513	39.905	110.485	89.763	1.00	0.00	H
ATOM	5022	CB	GLN	X	513	38.228	110.515	88.498	1.00	0.00	C
ATOM	5023	HB2	GLN	X	513	37.869	110.961	87.569	1.00	0.00	H
ATOM	5024	HB3	GLN	X	513	38.215	109.426	88.486	1.00	0.00	H
ATOM	5025	CG	GLN	X	513	37.235	110.874	89.576	1.00	0.00	C
ATOM	5026	HG2	GLN	X	513	36.362	110.288	89.290	1.00	0.00	H
ATOM	5027	HG3	GLN	X	513	37.656	110.438	90.482	1.00	0.00	H
ATOM	5028	CD	GLN	X	513	36.855	112.272	89.862	1.00	0.00	C
ATOM	5029	OE1	GLN	X	513	36.942	113.097	88.941	1.00	0.00	O
ATOM	5030	NE2	GLN	X	513	36.387	112.636	91.010	1.00	0.00	N
ATOM	5031	HE21	GLN	X	513	36.278	113.602	91.288	1.00	0.00	H
ATOM	5032	HE22	GLN	X	513	36.105	111.889	91.628	1.00	0.00	H
ATOM	5033	C	GLN	X	513	40.568	110.305	87.756	1.00	0.00	C
ATOM	5034	O	GLN	X	513	40.784	110.801	86.688	1.00	0.00	O
ATOM	5035	N	GLY	X	514	41.251	109.212	88.112	1.00	0.00	N
ATOM	5036	H	GLY	X	514	41.087	108.825	89.030	1.00	0.00	H
ATOM	5037	CA	GLY	X	514	42.390	108.628	87.304	1.00	0.00	C
ATOM	5038	HA2	GLY	X	514	42.510	107.564	87.509	1.00	0.00	H
ATOM	5039	HA3	GLY	X	514	42.140	108.718	86.246	1.00	0.00	H
ATOM	5040	C	GLY	X	514	43.738	109.319	87.376	1.00	0.00	C
ATOM	5041	O	GLY	X	514	44.747	108.585	87.431	1.00	0.00	O
ATOM	5042	N	LEU	X	515	43.798	110.645	87.343	1.00	0.00	N
ATOM	5043	H	LEU	X	515	42.904	111.081	87.171	1.00	0.00	H
ATOM	5044	CA	LEU	X	515	45.071	111.464	87.363	1.00	0.00	C
ATOM	5045	HA	LEU	X	515	45.567	111.377	86.396	1.00	0.00	H
ATOM	5046	CB	LEU	X	515	44.850	112.967	87.714	1.00	0.00	C
ATOM	5047	HB2	LEU	X	515	44.739	113.052	88.794	1.00	0.00	H
ATOM	5048	HB3	LEU	X	515	45.704	113.603	87.478	1.00	0.00	H
ATOM	5049	CG	LEU	X	515	43.618	113.473	86.854	1.00	0.00	C
ATOM	5050	HG	LEU	X	515	42.667	112.967	87.022	1.00	0.00	H
ATOM	5051	CD1	LEU	X	515	43.410	114.970	87.122	1.00	0.00	C
ATOM	5052	HD11	LEU	X	515	43.151	114.995	88.181	1.00	0.00	H
ATOM	5053	HD12	LEU	X	515	44.402	115.413	87.020	1.00	0.00	H
ATOM	5054	HD13	LEU	X	515	42.619	115.405	86.511	1.00	0.00	H
ATOM	5055	CD2	LEU	X	515	43.992	113.309	85.380	1.00	0.00	C
ATOM	5056	HD21	LEU	X	515	43.991	112.282	85.018	1.00	0.00	H
ATOM	5057	HD22	LEU	X	515	43.247	113.685	84.678	1.00	0.00	H
ATOM	5058	HD23	LEU	X	515	44.944	113.785	85.146	1.00	0.00	H
ATOM	5059	C	LEU	X	515	46.090	111.012	88.474	1.00	0.00	C
ATOM	5060	O	LEU	X	515	45.718	110.666	89.616	1.00	0.00	O
ATOM	5061	N	GLY	X	516	47.401	110.913	88.195	1.00	0.00	N
ATOM	5062	H	GLY	X	516	47.689	111.038	87.235	1.00	0.00	H
ATOM	5063	CA	GLY	X	516	48.437	110.336	89.061	1.00	0.00	C
ATOM	5064	HA2	GLY	X	516	48.117	110.386	90.103	1.00	0.00	H
ATOM	5065	HA3	GLY	X	516	48.759	109.336	88.772	1.00	0.00	H
ATOM	5066	C	GLY	X	516	49.659	111.202	89.002	1.00	0.00	C
ATOM	5067	O	GLY	X	516	49.848	112.131	89.860	1.00	0.00	O
ATOM	5068	N	PRO	X	517	50.556	110.875	88.092	1.00	0.00	N
ATOM	5069	CD	PRO	X	517	50.375	109.902	87.024	1.00	0.00	C
ATOM	5070	HD2	PRO	X	517	49.514	110.006	86.363	1.00	0.00	H
ATOM	5071	HD3	PRO	X	517	50.402	108.869	87.370	1.00	0.00	H
ATOM	5072	CG	PRO	X	517	51.512	110.081	86.048	1.00	0.00	C
ATOM	5073	HG2	PRO	X	517	51.127	110.520	85.127	1.00	0.00	H
ATOM	5074	HG3	PRO	X	517	51.942	109.116	85.782	1.00	0.00	H
ATOM	5075	CB	PRO	X	517	52.494	111.049	86.675	1.00	0.00	C
ATOM	5076	HB2	PRO	X	517	52.509	111.882	85.971	1.00	0.00	H
ATOM	5077	HB3	PRO	X	517	53.395	110.480	86.898	1.00	0.00	H
ATOM	5078	CA	PRO	X	517	51.806	111.508	88.016	1.00	0.00	C
ATOM	5079	HA	PRO	X	517	52.371	111.116	88.862	1.00	0.00	H
ATOM	5080	C	PRO	X	517	51.716	113.084	88.104	1.00	0.00	C
ATOM	5081	O	PRO	X	517	52.530	113.647	88.821	1.00	0.00	O
ATOM	5082	N	SER	X	518	50.788	113.798	87.520	1.00	0.00	N

ATOM	5083	H	SER	X	518	50.289	113.252	86.831	1.00	0.00	H
ATOM	5084	CA	SER	X	518	50.536	115.242	87.557	1.00	0.00	C
ATOM	5085	HA	SER	X	518	51.398	115.747	87.123	1.00	0.00	H
ATOM	5086	CB	SER	X	518	49.331	115.651	86.652	1.00	0.00	C
ATOM	5087	HB2	SER	X	518	49.330	116.710	86.386	1.00	0.00	H
ATOM	5088	HB3	SER	X	518	49.550	115.184	85.693	1.00	0.00	H
ATOM	5089	OG	SER	X	518	47.998	115.387	87.146	1.00	0.00	O
ATOM	5090	HG	SER	X	518	47.500	116.209	87.143	1.00	0.00	H
ATOM	5091	C	SER	X	518	50.253	115.808	88.990	1.00	0.00	C
ATOM	5092	O	SER	X	518	50.687	116.912	89.367	1.00	0.00	O
ATOM	5093	N	LEU	X	519	49.504	115.019	89.821	1.00	0.00	N
ATOM	5094	H	LEU	X	519	49.369	114.088	89.454	1.00	0.00	H
ATOM	5095	CA	LEU	X	519	49.266	115.290	91.252	1.00	0.00	C
ATOM	5096	HA	LEU	X	519	48.992	116.334	91.403	1.00	0.00	H
ATOM	5097	CB	LEU	X	519	48.051	114.428	91.744	1.00	0.00	C
ATOM	5098	HB2	LEU	X	519	48.502	113.487	92.057	1.00	0.00	H
ATOM	5099	HB3	LEU	X	519	47.696	114.931	92.644	1.00	0.00	H
ATOM	5100	CG	LEU	X	519	46.757	114.319	90.902	1.00	0.00	C
ATOM	5101	HG	LEU	X	519	46.986	113.872	89.935	1.00	0.00	H
ATOM	5102	CD1	LEU	X	519	45.732	113.493	91.656	1.00	0.00	C
ATOM	5103	HD11	LEU	X	519	44.768	113.446	91.149	1.00	0.00	H
ATOM	5104	HD12	LEU	X	519	46.088	112.464	91.708	1.00	0.00	H
ATOM	5105	HD13	LEU	X	519	45.527	113.960	92.619	1.00	0.00	H
ATOM	5106	CD2	LEU	X	519	46.081	115.688	90.725	1.00	0.00	C
ATOM	5107	HD21	LEU	X	519	46.570	116.256	89.935	1.00	0.00	H
ATOM	5108	HD22	LEU	X	519	45.064	115.601	90.342	1.00	0.00	H
ATOM	5109	HD23	LEU	X	519	45.940	116.244	91.654	1.00	0.00	H
ATOM	5110	C	LEU	X	519	50.452	114.966	92.082	1.00	0.00	C
ATOM	5111	O	LEU	X	519	50.764	115.686	93.008	1.00	0.00	O
ATOM	5112	N	LEU	X	520	51.230	113.968	91.735	1.00	0.00	N
ATOM	5113	H	LEU	X	520	50.779	113.360	91.066	1.00	0.00	H
ATOM	5114	CA	LEU	X	520	52.471	113.580	92.410	1.00	0.00	C
ATOM	5115	HA	LEU	X	520	52.073	113.441	93.415	1.00	0.00	H
ATOM	5116	CB	LEU	X	520	52.969	112.236	91.842	1.00	0.00	C
ATOM	5117	HB2	LEU	X	520	52.287	111.843	91.086	1.00	0.00	H
ATOM	5118	HB3	LEU	X	520	53.917	112.443	91.346	1.00	0.00	H
ATOM	5119	CG	LEU	X	520	53.115	111.258	92.953	1.00	0.00	C
ATOM	5120	HG	LEU	X	520	52.264	111.399	93.620	1.00	0.00	H
ATOM	5121	CD1	LEU	X	520	53.019	109.810	92.388	1.00	0.00	C
ATOM	5122	HD11	LEU	X	520	53.766	109.688	91.605	1.00	0.00	H
ATOM	5123	HD12	LEU	X	520	53.159	109.054	93.160	1.00	0.00	H
ATOM	5124	HD13	LEU	X	520	52.041	109.725	91.913	1.00	0.00	H
ATOM	5125	CD2	LEU	X	520	54.436	111.380	93.720	1.00	0.00	C
ATOM	5126	HD21	LEU	X	520	55.283	111.057	93.117	1.00	0.00	H
ATOM	5127	HD22	LEU	X	520	54.611	112.367	94.150	1.00	0.00	H
ATOM	5128	HD23	LEU	X	520	54.353	110.594	94.473	1.00	0.00	H
ATOM	5129	C	LEU	X	520	53.425	114.759	92.320	1.00	0.00	C
ATOM	5130	O	LEU	X	520	54.006	115.122	93.341	1.00	0.00	O
ATOM	5131	N	GLN	X	521	53.654	115.290	91.092	1.00	0.00	N
ATOM	5132	H	GLN	X	521	53.088	115.030	90.296	1.00	0.00	H
ATOM	5133	CA	GLN	X	521	54.659	116.380	90.854	1.00	0.00	C
ATOM	5134	HA	GLN	X	521	55.660	116.017	91.097	1.00	0.00	H
ATOM	5135	CB	GLN	X	521	54.641	116.831	89.360	1.00	0.00	C
ATOM	5136	HB2	GLN	X	521	53.633	117.049	89.011	1.00	0.00	H
ATOM	5137	HB3	GLN	X	521	55.317	117.671	89.198	1.00	0.00	H
ATOM	5138	CG	GLN	X	521	55.240	115.744	88.465	1.00	0.00	C
ATOM	5139	HG2	GLN	X	521	56.302	115.677	88.700	1.00	0.00	H
ATOM	5140	HG3	GLN	X	521	54.903	114.745	88.738	1.00	0.00	H
ATOM	5141	CD	GLN	X	521	54.951	115.865	87.035	1.00	0.00	C
ATOM	5142	OE1	GLN	X	521	53.909	116.452	86.623	1.00	0.00	O
ATOM	5143	NE2	GLN	X	521	55.799	115.301	86.183	1.00	0.00	N
ATOM	5144	HE21	GLN	X	521	55.488	115.281	85.222	1.00	0.00	H
ATOM	5145	HE22	GLN	X	521	56.684	114.976	86.546	1.00	0.00	H
ATOM	5146	C	GLN	X	521	54.438	117.538	91.822	1.00	0.00	C
ATOM	5147	O	GLN	X	521	55.285	117.911	92.658	1.00	0.00	O
ATOM	5148	N	GLY	X	522	53.182	117.987	91.789	1.00	0.00	N
ATOM	5149	H	GLY	X	522	52.604	117.593	91.060	1.00	0.00	H
ATOM	5150	CA	GLY	X	522	52.520	118.974	92.697	1.00	0.00	C
ATOM	5151	HA2	GLY	X	522	52.753	119.975	92.335	1.00	0.00	H
ATOM	5152	HA3	GLY	X	522	51.443	118.874	92.563	1.00	0.00	H
ATOM	5153	C	GLY	X	522	52.711	118.800	94.213	1.00	0.00	C
ATOM	5154	O	GLY	X	522	52.410	119.714	94.985	1.00	0.00	O
ATOM	5155	N	ARG	X	523	53.198	117.641	94.634	1.00	0.00	N
ATOM	5156	H	ARG	X	523	53.295	116.844	94.021	1.00	0.00	H
ATOM	5157	CA	ARG	X	523	53.212	117.200	96.050	1.00	0.00	C
ATOM	5158	HA	ARG	X	523	53.180	118.089	96.681	1.00	0.00	H
ATOM	5159	CB	ARG	X	523	51.900	116.474	96.413	1.00	0.00	C
ATOM	5160	HB2	ARG	X	523	51.490	115.912	95.574	1.00	0.00	H
ATOM	5161	HB3	ARG	X	523	52.069	115.785	97.242	1.00	0.00	H
ATOM	5162	CG	ARG	X	523	50.751	117.456	96.858	1.00	0.00	C
ATOM	5163	HG2	ARG	X	523	50.650	118.244	96.111	1.00	0.00	H
ATOM	5164	HG3	ARG	X	523	49.807	116.915	96.915	1.00	0.00	H

ATOM	5165	CD	ARG	X	523	51.159	117.921	98.263	1.00	0.00	C
ATOM	5166	HD2	ARG	X	523	51.582	117.201	98.964	1.00	0.00	H
ATOM	5167	HD3	ARG	X	523	51.925	118.680	98.101	1.00	0.00	H
ATOM	5168	NE	ARG	X	523	50.080	118.713	98.940	1.00	0.00	N
ATOM	5169	HE	ARG	X	523	49.145	118.464	98.655	1.00	0.00	H
ATOM	5170	CZ	ARG	X	523	50.265	119.647	99.804	1.00	0.00	C
ATOM	5171	NH1	ARG	X	523	51.415	120.086	100.174	1.00	0.00	N
ATOM	5172	HH11	ARG	X	523	52.259	119.579	99.949	1.00	0.00	H
ATOM	5173	HH12	ARG	X	523	51.429	120.862	100.820	1.00	0.00	H
ATOM	5174	NH2	ARG	X	523	49.206	120.232	100.297	1.00	0.00	N
ATOM	5175	HH21	ARG	X	523	48.300	120.250	99.849	1.00	0.00	H
ATOM	5176	HH22	ARG	X	523	49.305	121.027	100.913	1.00	0.00	H
ATOM	5177	C	ARG	X	523	54.439	116.423	96.477	1.00	0.00	C
ATOM	5178	O	ARG	X	523	54.604	115.916	97.580	1.00	0.00	O
ATOM	5179	N	LEU	X	524	55.409	116.379	95.515	1.00	0.00	N
ATOM	5180	H	LEU	X	524	55.151	116.857	94.664	1.00	0.00	H
ATOM	5181	CA	LEU	X	524	56.790	115.772	95.719	1.00	0.00	C
ATOM	5182	HA	LEU	X	524	56.734	114.713	95.968	1.00	0.00	H
ATOM	5183	CB	LEU	X	524	57.503	115.845	94.408	1.00	0.00	C
ATOM	5184	HB2	LEU	X	524	56.779	115.590	93.635	1.00	0.00	H
ATOM	5185	HB3	LEU	X	524	57.797	116.847	94.093	1.00	0.00	H
ATOM	5186	CG	LEU	X	524	58.726	114.868	94.344	1.00	0.00	C
ATOM	5187	HG	LEU	X	524	59.409	115.032	95.178	1.00	0.00	H
ATOM	5188	CD1	LEU	X	524	58.222	113.438	94.263	1.00	0.00	C
ATOM	5189	HD11	LEU	X	524	58.926	112.674	93.935	1.00	0.00	H
ATOM	5190	HD12	LEU	X	524	57.980	113.097	95.269	1.00	0.00	H
ATOM	5191	HD13	LEU	X	524	57.345	113.416	93.614	1.00	0.00	H
ATOM	5192	CD2	LEU	X	524	59.502	115.139	93.119	1.00	0.00	C
ATOM	5193	HD21	LEU	X	524	59.008	114.850	92.191	1.00	0.00	H
ATOM	5194	HD22	LEU	X	524	59.931	116.140	93.071	1.00	0.00	H
ATOM	5195	HD23	LEU	X	524	60.357	114.467	93.205	1.00	0.00	H
ATOM	5196	C	LEU	X	524	57.533	116.497	96.864	1.00	0.00	C
ATOM	5197	O	LEU	X	524	58.264	115.766	97.546	1.00	0.00	O
ATOM	5198	N	PRO	X	525	57.518	117.813	97.201	1.00	0.00	N
ATOM	5199	CD	PRO	X	525	57.042	118.966	96.444	1.00	0.00	C
ATOM	5200	HD2	PRO	X	525	55.965	119.108	96.527	1.00	0.00	H
ATOM	5201	HD3	PRO	X	525	57.443	118.728	95.457	1.00	0.00	H
ATOM	5202	CG	PRO	X	525	57.911	120.134	96.993	1.00	0.00	C
ATOM	5203	HG2	PRO	X	525	57.474	121.130	96.928	1.00	0.00	H
ATOM	5204	HG3	PRO	X	525	58.892	120.159	96.518	1.00	0.00	H
ATOM	5205	CB	PRO	X	525	58.102	119.773	98.427	1.00	0.00	C
ATOM	5206	HB2	PRO	X	525	57.184	120.126	98.895	1.00	0.00	H
ATOM	5207	HB3	PRO	X	525	58.899	120.315	98.936	1.00	0.00	H
ATOM	5208	CA	PRO	X	525	58.264	118.258	98.381	1.00	0.00	C
ATOM	5209	HA	PRO	X	525	59.337	118.063	98.381	1.00	0.00	H
ATOM	5210	C	PRO	X	525	57.759	117.710	99.685	1.00	0.00	C
ATOM	5211	O	PRO	X	525	58.503	117.093	100.444	1.00	0.00	O
ATOM	5212	N	THR	X	526	56.462	117.770	99.867	1.00	0.00	N
ATOM	5213	H	THR	X	526	55.901	118.393	99.304	1.00	0.00	H
ATOM	5214	CA	THR	X	526	55.809	117.136	101.018	1.00	0.00	C
ATOM	5215	HA	THR	X	526	56.050	117.657	101.945	1.00	0.00	H
ATOM	5216	CB	THR	X	526	54.300	117.186	100.860	1.00	0.00	C
ATOM	5217	HB	THR	X	526	54.040	116.747	99.897	1.00	0.00	H
ATOM	5218	CG2	THR	X	526	53.604	116.406	101.906	1.00	0.00	C
ATOM	5219	HG21	THR	X	526	54.014	116.499	102.911	1.00	0.00	H
ATOM	5220	HG22	THR	X	526	52.605	116.841	101.903	1.00	0.00	H
ATOM	5221	HG23	THR	X	526	53.453	115.352	101.667	1.00	0.00	H
ATOM	5222	OG1	THR	X	526	53.848	118.444	100.833	1.00	0.00	O
ATOM	5223	HG1	THR	X	526	54.161	118.781	101.675	1.00	0.00	H
ATOM	5224	C	THR	X	526	56.142	115.691	101.138	1.00	0.00	C
ATOM	5225	O	THR	X	526	56.642	115.264	102.191	1.00	0.00	O
ATOM	5226	N	LEU	X	527	55.835	114.906	100.037	1.00	0.00	N
ATOM	5227	H	LEU	X	527	55.529	115.401	99.211	1.00	0.00	H
ATOM	5228	CA	LEU	X	527	56.185	113.440	99.956	1.00	0.00	C
ATOM	5229	HA	LEU	X	527	55.642	112.841	100.689	1.00	0.00	H
ATOM	5230	CB	LEU	X	527	55.740	112.869	98.607	1.00	0.00	C
ATOM	5231	HB2	LEU	X	527	56.105	113.540	97.830	1.00	0.00	H
ATOM	5232	HB3	LEU	X	527	56.144	111.880	98.394	1.00	0.00	H
ATOM	5233	CG	LEU	X	527	54.216	112.767	98.461	1.00	0.00	C
ATOM	5234	HG	LEU	X	527	53.737	113.584	99.001	1.00	0.00	H
ATOM	5235	CD1	LEU	X	527	53.866	112.717	96.993	1.00	0.00	C
ATOM	5236	HD11	LEU	X	527	52.809	112.494	96.850	1.00	0.00	H
ATOM	5237	HD12	LEU	X	527	54.131	113.625	96.452	1.00	0.00	H
ATOM	5238	HD13	LEU	X	527	54.402	111.851	96.608	1.00	0.00	H
ATOM	5239	CD2	LEU	X	527	53.723	111.503	99.120	1.00	0.00	C
ATOM	5240	HD21	LEU	X	527	54.032	111.431	100.164	1.00	0.00	H
ATOM	5241	HD22	LEU	X	527	52.645	111.511	98.958	1.00	0.00	H
ATOM	5242	HD23	LEU	X	527	54.086	110.625	98.588	1.00	0.00	H
ATOM	5243	C	LEU	X	527	57.653	113.096	100.255	1.00	0.00	C
ATOM	5244	O	LEU	X	527	57.876	112.163	101.037	1.00	0.00	O
ATOM	5245	N	LEU	X	528	58.644	113.880	99.802	1.00	0.00	N
ATOM	5246	H	LEU	X	528	58.463	114.771	99.367	1.00	0.00	H

ATOM	5247	CA	LEU	X	528	60.066	113.661	100.211	1.00	0.00	C
ATOM	5248	HA	LEU	X	528	60.203	112.584	100.116	1.00	0.00	H
ATOM	5249	CB	LEU	X	528	61.026	114.406	99.330	1.00	0.00	C
ATOM	5250	HB2	LEU	X	528	60.814	115.473	99.262	1.00	0.00	H
ATOM	5251	HB3	LEU	X	528	61.991	114.387	99.837	1.00	0.00	H
ATOM	5252	CG	LEU	X	528	61.205	113.770	97.927	1.00	0.00	C
ATOM	5253	HG	LEU	X	528	60.269	113.787	97.369	1.00	0.00	H
ATOM	5254	CD1	LEU	X	528	62.075	114.611	97.056	1.00	0.00	C
ATOM	5255	HD11	LEU	X	528	63.067	114.746	97.486	1.00	0.00	H
ATOM	5256	HD12	LEU	X	528	62.306	114.119	96.111	1.00	0.00	H
ATOM	5257	HD13	LEU	X	528	61.549	115.527	96.787	1.00	0.00	H
ATOM	5258	CD2	LEU	X	528	61.937	112.403	97.999	1.00	0.00	C
ATOM	5259	HD21	LEU	X	528	61.214	111.767	98.510	1.00	0.00	H
ATOM	5260	HD22	LEU	X	528	62.177	112.018	97.008	1.00	0.00	H
ATOM	5261	HD23	LEU	X	528	62.860	112.438	98.578	1.00	0.00	H
ATOM	5262	C	LEU	X	528	60.347	114.015	101.665	1.00	0.00	C
ATOM	5263	O	LEU	X	528	60.853	113.098	102.384	1.00	0.00	O
ATOM	5264	N	ARG	X	529	59.862	115.128	102.235	1.00	0.00	N
ATOM	5265	H	ARG	X	529	59.398	115.781	101.620	1.00	0.00	H
ATOM	5266	CA	ARG	X	529	59.945	115.447	103.655	1.00	0.00	C
ATOM	5267	HA	ARG	X	529	61.020	115.539	103.809	1.00	0.00	H
ATOM	5268	CB	ARG	X	529	59.213	116.740	104.058	1.00	0.00	C
ATOM	5269	HB2	ARG	X	529	58.194	116.587	103.705	1.00	0.00	H
ATOM	5270	HB3	ARG	X	529	59.183	116.820	105.145	1.00	0.00	H
ATOM	5271	CG	ARG	X	529	59.812	117.976	103.438	1.00	0.00	C
ATOM	5272	HG2	ARG	X	529	60.888	117.850	103.563	1.00	0.00	H
ATOM	5273	HG3	ARG	X	529	59.630	118.033	102.365	1.00	0.00	H
ATOM	5274	CD	ARG	X	529	59.360	119.224	104.179	1.00	0.00	C
ATOM	5275	HD2	ARG	X	529	59.340	118.965	105.239	1.00	0.00	H
ATOM	5276	HD3	ARG	X	529	60.136	119.962	103.976	1.00	0.00	H
ATOM	5277	NE	ARG	X	529	58.037	119.588	103.788	1.00	0.00	N
ATOM	5278	HE	ARG	X	529	57.322	119.467	104.490	1.00	0.00	H
ATOM	5279	CZ	ARG	X	529	57.813	120.465	102.799	1.00	0.00	C
ATOM	5280	NH1	ARG	X	529	58.728	121.026	102.143	1.00	0.00	N
ATOM	5281	HH11	ARG	X	529	59.630	120.717	102.476	1.00	0.00	H
ATOM	5282	HH12	ARG	X	529	58.619	121.791	101.492	1.00	0.00	H
ATOM	5283	NH2	ARG	X	529	56.638	120.880	102.572	1.00	0.00	N
ATOM	5284	HH21	ARG	X	529	55.838	120.445	103.008	1.00	0.00	H
ATOM	5285	HH22	ARG	X	529	56.542	121.716	102.014	1.00	0.00	H
ATOM	5286	C	ARG	X	529	59.408	114.327	104.582	1.00	0.00	C
ATOM	5287	O	ARG	X	529	60.043	114.040	105.632	1.00	0.00	O
ATOM	5288	N	LEU	X	530	58.233	113.790	104.295	1.00	0.00	N
ATOM	5289	H	LEU	X	530	57.741	114.199	103.513	1.00	0.00	H
ATOM	5290	CA	LEU	X	530	57.588	112.674	105.003	1.00	0.00	C
ATOM	5291	HA	LEU	X	530	57.570	112.894	106.070	1.00	0.00	H
ATOM	5292	CB	LEU	X	530	56.137	112.394	104.512	1.00	0.00	C
ATOM	5293	HB2	LEU	X	530	56.227	112.100	103.467	1.00	0.00	H
ATOM	5294	HB3	LEU	X	530	55.662	111.508	104.935	1.00	0.00	H
ATOM	5295	CG	LEU	X	530	55.065	113.511	104.844	1.00	0.00	C
ATOM	5296	HG	LEU	X	530	55.615	114.452	104.842	1.00	0.00	H
ATOM	5297	CD1	LEU	X	530	53.813	113.638	104.026	1.00	0.00	C
ATOM	5298	HD11	LEU	X	530	53.189	112.746	104.070	1.00	0.00	H
ATOM	5299	HD12	LEU	X	530	53.252	114.444	104.502	1.00	0.00	H
ATOM	5300	HD13	LEU	X	530	54.247	113.888	103.057	1.00	0.00	H
ATOM	5301	CD2	LEU	X	530	54.566	113.337	106.297	1.00	0.00	C
ATOM	5302	HD21	LEU	X	530	55.363	113.099	107.002	1.00	0.00	H
ATOM	5303	HD22	LEU	X	530	54.276	114.323	106.661	1.00	0.00	H
ATOM	5304	HD23	LEU	X	530	53.845	112.521	106.362	1.00	0.00	H
ATOM	5305	C	LEU	X	530	58.471	111.484	104.877	1.00	0.00	C
ATOM	5306	O	LEU	X	530	58.678	110.869	105.892	1.00	0.00	O
ATOM	5307	N	GLY	X	531	59.069	111.225	103.653	1.00	0.00	N
ATOM	5308	H	GLY	X	531	58.950	111.866	102.882	1.00	0.00	H
ATOM	5309	CA	GLY	X	531	59.973	110.087	103.473	1.00	0.00	C
ATOM	5310	HA2	GLY	X	531	59.396	109.231	103.820	1.00	0.00	H
ATOM	5311	HA3	GLY	X	531	60.256	109.960	102.429	1.00	0.00	H
ATOM	5312	C	GLY	X	531	61.312	110.226	104.327	1.00	0.00	C
ATOM	5313	O	GLY	X	531	61.816	109.240	104.880	1.00	0.00	O
ATOM	5314	N	GLN	X	532	61.910	111.414	104.342	1.00	0.00	N
ATOM	5315	H	GLN	X	532	61.466	112.182	103.858	1.00	0.00	H
ATOM	5316	CA	GLN	X	532	63.082	111.776	105.129	1.00	0.00	C
ATOM	5317	HA	GLN	X	532	63.865	111.050	104.919	1.00	0.00	H
ATOM	5318	CB	GLN	X	532	63.557	113.197	104.658	1.00	0.00	C
ATOM	5319	HB2	GLN	X	532	63.690	113.171	103.576	1.00	0.00	H
ATOM	5320	HB3	GLN	X	532	62.758	113.884	104.940	1.00	0.00	H
ATOM	5321	CG	GLN	X	532	64.915	113.724	105.114	1.00	0.00	C
ATOM	5322	HG2	GLN	X	532	65.040	113.434	106.157	1.00	0.00	H
ATOM	5323	HG3	GLN	X	532	65.717	113.347	104.479	1.00	0.00	H
ATOM	5324	CD	GLN	X	532	64.978	115.246	105.132	1.00	0.00	C
ATOM	5325	OE1	GLN	X	532	63.968	115.986	104.952	1.00	0.00	O
ATOM	5326	NE2	GLN	X	532	66.154	115.837	105.422	1.00	0.00	N
ATOM	5327	HE21	GLN	X	532	66.163	116.759	105.836	1.00	0.00	H
ATOM	5328	HE22	GLN	X	532	67.037	115.370	105.570	1.00	0.00	H

ATOM	5329	C	GLN	X	532	62.925	111.852	106.658	1.00	0.00	C
ATOM	5330	O	GLN	X	532	63.772	111.432	107.354	1.00	0.00	O
ATOM	5331	N	LEU	X	533	61.804	112.286	107.107	1.00	0.00	N
ATOM	5332	H	LEU	X	533	61.318	112.808	106.390	1.00	0.00	H
ATOM	5333	CA	LEU	X	533	61.244	112.206	108.463	1.00	0.00	C
ATOM	5334	HA	LEU	X	533	61.942	112.707	109.134	1.00	0.00	H
ATOM	5335	CB	LEU	X	533	59.863	112.935	108.637	1.00	0.00	C
ATOM	5336	HB2	LEU	X	533	60.020	114.013	108.688	1.00	0.00	H
ATOM	5337	HB3	LEU	X	533	59.326	112.832	107.695	1.00	0.00	H
ATOM	5338	CG	LEU	X	533	59.022	112.487	109.882	1.00	0.00	C
ATOM	5339	HG	LEU	X	533	59.015	111.403	109.999	1.00	0.00	H
ATOM	5340	CD1	LEU	X	533	59.478	113.122	111.192	1.00	0.00	C
ATOM	5341	HD11	LEU	X	533	58.776	112.975	112.013	1.00	0.00	H
ATOM	5342	HD12	LEU	X	533	60.478	112.758	111.429	1.00	0.00	H
ATOM	5343	HD13	LEU	X	533	59.604	114.190	111.015	1.00	0.00	H
ATOM	5344	CD2	LEU	X	533	57.530	112.860	109.672	1.00	0.00	C
ATOM	5345	HD21	LEU	X	533	56.936	112.546	110.531	1.00	0.00	H
ATOM	5346	HD22	LEU	X	533	57.473	113.948	109.678	1.00	0.00	H
ATOM	5347	HD23	LEU	X	533	57.108	112.418	108.769	1.00	0.00	H
ATOM	5348	C	LEU	X	533	61.121	110.752	108.793	1.00	0.00	C
ATOM	5349	O	LEU	X	533	61.469	110.323	109.895	1.00	0.00	O
ATOM	5350	N	ALA	X	534	60.625	109.968	107.836	1.00	0.00	N
ATOM	5351	H	ALA	X	534	60.276	110.254	106.933	1.00	0.00	H
ATOM	5352	CA	ALA	X	534	60.434	108.622	108.090	1.00	0.00	C
ATOM	5353	HA	ALA	X	534	59.854	108.675	109.013	1.00	0.00	H
ATOM	5354	CB	ALA	X	534	59.592	107.905	107.005	1.00	0.00	C
ATOM	5355	HB1	ALA	X	534	59.377	106.849	107.162	1.00	0.00	H
ATOM	5356	HB2	ALA	X	534	58.665	108.428	106.765	1.00	0.00	H
ATOM	5357	HB3	ALA	X	534	60.139	107.883	106.062	1.00	0.00	H
ATOM	5358	C	ALA	X	534	61.748	107.900	108.339	1.00	0.00	C
ATOM	5359	O	ALA	X	534	61.910	107.220	109.363	1.00	0.00	O
ATOM	5360	N	LEU	X	535	62.609	108.016	107.364	1.00	0.00	N
ATOM	5361	H	LEU	X	535	62.425	108.443	106.467	1.00	0.00	H
ATOM	5362	CA	LEU	X	535	63.995	107.424	107.499	1.00	0.00	C
ATOM	5363	HA	LEU	X	535	64.084	106.349	107.655	1.00	0.00	H
ATOM	5364	CB	LEU	X	535	64.633	107.977	106.164	1.00	0.00	C
ATOM	5365	HB2	LEU	X	535	64.071	107.597	105.310	1.00	0.00	H
ATOM	5366	HB3	LEU	X	535	64.696	109.064	106.121	1.00	0.00	H
ATOM	5367	CG	LEU	X	535	66.128	107.524	106.042	1.00	0.00	C
ATOM	5368	HG	LEU	X	535	66.643	107.561	107.002	1.00	0.00	H
ATOM	5369	CD1	LEU	X	535	66.084	106.074	105.493	1.00	0.00	C
ATOM	5370	HD11	LEU	X	535	65.508	105.376	106.101	1.00	0.00	H
ATOM	5371	HD12	LEU	X	535	65.672	105.929	104.495	1.00	0.00	H
ATOM	5372	HD13	LEU	X	535	67.126	105.748	105.498	1.00	0.00	H
ATOM	5373	CD2	LEU	X	535	66.828	108.383	105.088	1.00	0.00	C
ATOM	5374	HD21	LEU	X	535	66.942	109.376	105.525	1.00	0.00	H
ATOM	5375	HD22	LEU	X	535	67.841	108.017	104.923	1.00	0.00	H
ATOM	5376	HD23	LEU	X	535	66.270	108.335	104.152	1.00	0.00	H
ATOM	5377	C	LEU	X	535	64.719	108.071	108.706	1.00	0.00	C
ATOM	5378	O	LEU	X	535	65.544	107.351	109.290	1.00	0.00	O
ATOM	5379	N	TRP	X	536	64.590	109.390	109.002	1.00	0.00	N
ATOM	5380	H	TRP	X	536	64.118	109.961	108.315	1.00	0.00	H
ATOM	5381	CA	TRP	X	536	65.261	110.009	110.182	1.00	0.00	C
ATOM	5382	HA	TRP	X	536	66.342	109.885	110.114	1.00	0.00	H
ATOM	5383	CB	TRP	X	536	64.720	111.433	110.296	1.00	0.00	C
ATOM	5384	HB2	TRP	X	536	65.027	111.952	109.387	1.00	0.00	H
ATOM	5385	HB3	TRP	X	536	63.647	111.398	110.105	1.00	0.00	H
ATOM	5386	CG	TRP	X	536	65.036	112.140	111.591	1.00	0.00	C
ATOM	5387	CD1	TRP	X	536	66.287	112.463	112.010	1.00	0.00	C
ATOM	5388	HD1	TRP	X	536	67.159	112.424	111.376	1.00	0.00	H
ATOM	5389	NE1	TRP	X	536	66.245	112.753	113.363	1.00	0.00	N
ATOM	5390	HE1	TRP	X	536	67.030	113.135	113.872	1.00	0.00	H
ATOM	5391	CE2	TRP	X	536	65.059	112.617	113.916	1.00	0.00	C
ATOM	5392	CZ2	TRP	X	536	64.516	112.693	115.232	1.00	0.00	C
ATOM	5393	HZ2	TRP	X	536	65.222	112.914	116.017	1.00	0.00	H
ATOM	5394	CH2	TRP	X	536	63.143	112.521	115.476	1.00	0.00	C
ATOM	5395	HH2	TRP	X	536	62.663	112.548	116.444	1.00	0.00	H
ATOM	5396	CZ3	TRP	X	536	62.371	112.178	114.409	1.00	0.00	C
ATOM	5397	HZ3	TRP	X	536	61.357	112.039	114.756	1.00	0.00	H
ATOM	5398	CE3	TRP	X	536	62.868	112.132	113.100	1.00	0.00	C
ATOM	5399	HE3	TRP	X	536	62.190	111.816	112.318	1.00	0.00	H
ATOM	5400	CD2	TRP	X	536	64.248	112.289	112.809	1.00	0.00	C
ATOM	5401	C	TRP	X	536	64.837	109.192	111.489	1.00	0.00	C
ATOM	5402	O	TRP	X	536	65.576	108.398	111.967	1.00	0.00	O
ATOM	5403	N	GLY	X	537	63.486	109.192	111.724	1.00	0.00	N
ATOM	5404	H	GLY	X	537	62.919	109.720	111.076	1.00	0.00	H
ATOM	5405	CA	GLY	X	537	62.923	108.484	112.806	1.00	0.00	C
ATOM	5406	HA2	GLY	X	537	63.177	108.855	113.799	1.00	0.00	H
ATOM	5407	HA3	GLY	X	537	61.837	108.562	112.741	1.00	0.00	H
ATOM	5408	C	GLY	X	537	63.241	107.030	112.880	1.00	0.00	C
ATOM	5409	O	GLY	X	537	63.368	106.392	113.921	1.00	0.00	O
ATOM	5410	N	LEU	X	538	63.367	106.414	111.712	1.00	0.00	N

ATOM	5411	H	LEU	X	538	63.247	106.996	110.896	1.00	0.00	H
ATOM	5412	CA	LEU	X	538	63.637	104.971	111.610	1.00	0.00	C
ATOM	5413	HA	LEU	X	538	62.925	104.377	112.182	1.00	0.00	H
ATOM	5414	CB	LEU	X	538	63.605	104.367	110.207	1.00	0.00	C
ATOM	5415	HB2	LEU	X	538	64.083	105.166	109.640	1.00	0.00	H
ATOM	5416	HB3	LEU	X	538	64.252	103.494	110.130	1.00	0.00	H
ATOM	5417	CG	LEU	X	538	62.258	103.850	109.661	1.00	0.00	C
ATOM	5418	HG	LEU	X	538	61.518	104.503	110.125	1.00	0.00	H
ATOM	5419	CD1	LEU	X	538	62.243	103.835	108.085	1.00	0.00	C
ATOM	5420	HD11	LEU	X	538	62.322	102.857	107.610	1.00	0.00	H
ATOM	5421	HD12	LEU	X	538	61.215	104.073	107.807	1.00	0.00	H
ATOM	5422	HD13	LEU	X	538	63.031	104.520	107.769	1.00	0.00	H
ATOM	5423	CD2	LEU	X	538	61.852	102.436	110.064	1.00	0.00	C
ATOM	5424	HD21	LEU	X	538	61.731	102.269	111.134	1.00	0.00	H
ATOM	5425	HD22	LEU	X	538	60.894	102.128	109.645	1.00	0.00	H
ATOM	5426	HD23	LEU	X	538	62.667	101.733	109.887	1.00	0.00	H
ATOM	5427	C	LEU	X	538	65.052	104.633	112.132	1.00	0.00	C
ATOM	5428	O	LEU	X	538	65.300	103.648	112.764	1.00	0.00	O
ATOM	5429	N	GLY	X	539	66.028	105.502	111.880	1.00	0.00	N
ATOM	5430	H	GLY	X	539	65.771	106.356	111.407	1.00	0.00	H
ATOM	5431	CA	GLY	X	539	67.337	105.402	112.382	1.00	0.00	C
ATOM	5432	HA2	GLY	X	539	67.568	104.339	112.312	1.00	0.00	H
ATOM	5433	HA3	GLY	X	539	68.090	105.768	111.684	1.00	0.00	H
ATOM	5434	C	GLY	X	539	67.500	106.068	113.765	1.00	0.00	C
ATOM	5435	O	GLY	X	539	68.550	105.873	114.368	1.00	0.00	O
ATOM	5436	N	MET	X	540	66.480	106.763	114.348	1.00	0.00	N
ATOM	5437	H	MET	X	540	65.695	106.972	113.746	1.00	0.00	H
ATOM	5438	CA	MET	X	540	66.443	107.360	115.676	1.00	0.00	C
ATOM	5439	HA	MET	X	540	67.445	107.159	116.053	1.00	0.00	H
ATOM	5440	CB	MET	X	540	66.131	108.856	115.630	1.00	0.00	C
ATOM	5441	HB2	MET	X	540	65.136	108.981	115.204	1.00	0.00	H
ATOM	5442	HB3	MET	X	540	66.131	109.311	116.621	1.00	0.00	H
ATOM	5443	CG	MET	X	540	67.143	109.715	114.984	1.00	0.00	C
ATOM	5444	HG2	MET	X	540	67.202	109.482	113.921	1.00	0.00	H
ATOM	5445	HG3	MET	X	540	66.594	110.650	114.875	1.00	0.00	H
ATOM	5446	SD	MET	X	540	68.884	109.908	115.675	1.00	0.00	S
ATOM	5447	CE	MET	X	540	68.696	110.638	117.311	1.00	0.00	C
ATOM	5448	HE1	MET	X	540	68.232	109.953	118.020	1.00	0.00	H
ATOM	5449	HE2	MET	X	540	69.697	110.774	117.721	1.00	0.00	H
ATOM	5450	HE3	MET	X	540	68.040	111.507	117.320	1.00	0.00	H
ATOM	5451	C	MET	X	540	65.439	106.566	116.620	1.00	0.00	C
ATOM	5452	O	MET	X	540	65.198	107.021	117.754	1.00	0.00	O
ATOM	5453	N	CYS	X	541	64.832	105.554	116.054	1.00	0.00	N
ATOM	5454	H	CYS	X	541	64.986	105.193	115.124	1.00	0.00	H
ATOM	5455	CA	CYS	X	541	63.780	104.716	116.715	1.00	0.00	C
ATOM	5456	HA	CYS	X	541	63.405	104.055	115.935	1.00	0.00	H
ATOM	5457	CB	CYS	X	541	64.430	103.917	117.860	1.00	0.00	C
ATOM	5458	HB2	CYS	X	541	64.454	104.469	118.801	1.00	0.00	H
ATOM	5459	HB3	CYS	X	541	63.734	103.155	118.213	1.00	0.00	H
ATOM	5460	SG	CYS	X	541	65.975	103.064	117.394	1.00	0.00	S
ATOM	5461	HG	CYS	X	541	65.481	102.338	116.388	1.00	0.00	H
ATOM	5462	C	CYS	X	541	62.543	105.617	117.196	1.00	0.00	C
ATOM	5463	O	CYS	X	541	61.962	105.334	118.269	1.00	0.00	O
ATOM	5464	N	CYS	X	542	62.221	106.624	116.433	1.00	0.00	N
ATOM	5465	H	CYS	X	542	62.662	106.700	115.527	1.00	0.00	H
ATOM	5466	CA	CYS	X	542	61.047	107.496	116.617	1.00	0.00	C
ATOM	5467	HA	CYS	X	542	60.763	107.466	117.668	1.00	0.00	H
ATOM	5468	CB	CYS	X	542	61.404	108.987	116.474	1.00	0.00	C
ATOM	5469	HB2	CYS	X	542	61.688	109.222	115.450	1.00	0.00	H
ATOM	5470	HB3	CYS	X	542	60.490	109.448	116.852	1.00	0.00	H
ATOM	5471	SG	CYS	X	542	62.626	109.551	117.693	1.00	0.00	S
ATOM	5472	HG	CYS	X	542	63.459	108.511	117.766	1.00	0.00	H
ATOM	5473	C	CYS	X	542	59.926	107.010	115.669	1.00	0.00	C
ATOM	5474	O	CYS	X	542	60.151	107.050	114.464	1.00	0.00	O
ATOM	5475	N	TYR	X	543	58.765	106.712	116.134	1.00	0.00	N
ATOM	5476	H	TYR	X	543	58.670	106.730	117.139	1.00	0.00	H
ATOM	5477	CA	TYR	X	543	57.673	106.187	115.339	1.00	0.00	C
ATOM	5478	HA	TYR	X	543	57.833	106.412	114.285	1.00	0.00	H
ATOM	5479	CB	TYR	X	543	57.557	104.636	115.578	1.00	0.00	C
ATOM	5480	HB2	TYR	X	543	57.107	104.522	116.565	1.00	0.00	H
ATOM	5481	HB3	TYR	X	543	56.921	104.341	114.743	1.00	0.00	H
ATOM	5482	CG	TYR	X	543	58.915	103.812	115.579	1.00	0.00	C
ATOM	5483	CD1	TYR	X	543	59.707	103.632	114.417	1.00	0.00	C
ATOM	5484	HD1	TYR	X	543	59.299	104.004	113.488	1.00	0.00	H
ATOM	5485	CE1	TYR	X	543	60.888	102.869	114.433	1.00	0.00	C
ATOM	5486	HE1	TYR	X	543	61.426	102.473	113.583	1.00	0.00	H
ATOM	5487	CZ	TYR	X	543	61.403	102.431	115.673	1.00	0.00	C
ATOM	5488	OH	TYR	X	543	62.624	101.844	115.752	1.00	0.00	O
ATOM	5489	HH	TYR	X	543	62.716	101.268	116.516	1.00	0.00	H
ATOM	5490	CE2	TYR	X	543	60.653	102.642	116.844	1.00	0.00	C
ATOM	5491	HE2	TYR	X	543	60.996	102.159	117.747	1.00	0.00	H
ATOM	5492	CD2	TYR	X	543	59.465	103.374	116.818	1.00	0.00	C

ATOM	5493	HD2	TYR	X	543	58.914	103.480	117.740	1.00	0.00	H
ATOM	5494	C	TYR	X	543	56.326	106.934	115.558	1.00	0.00	C
ATOM	5495	O	TYR	X	543	55.355	106.793	114.812	1.00	0.00	O
ATOM	5496	N	VAL	X	544	56.289	107.617	116.693	1.00	0.00	N
ATOM	5497	H	VAL	X	544	57.143	107.697	117.228	1.00	0.00	H
ATOM	5498	CA	VAL	X	544	55.245	108.587	117.060	1.00	0.00	C
ATOM	5499	HA	VAL	X	544	54.536	108.716	116.244	1.00	0.00	H
ATOM	5500	CB	VAL	X	544	54.603	108.093	118.400	1.00	0.00	C
ATOM	5501	HB	VAL	X	544	55.429	107.690	118.984	1.00	0.00	H
ATOM	5502	CG1	VAL	X	544	54.142	109.217	119.281	1.00	0.00	C
ATOM	5503	HG11	VAL	X	544	53.899	108.731	120.225	1.00	0.00	H
ATOM	5504	HG12	VAL	X	544	54.915	109.975	119.415	1.00	0.00	H
ATOM	5505	HG13	VAL	X	544	53.234	109.712	118.937	1.00	0.00	H
ATOM	5506	CG2	VAL	X	544	53.574	106.989	118.173	1.00	0.00	C
ATOM	5507	HG21	VAL	X	544	54.023	106.118	117.695	1.00	0.00	H
ATOM	5508	HG22	VAL	X	544	53.093	106.811	119.135	1.00	0.00	H
ATOM	5509	HG23	VAL	X	544	52.826	107.461	117.536	1.00	0.00	H
ATOM	5510	C	VAL	X	544	56.007	109.942	117.193	1.00	0.00	C
ATOM	5511	O	VAL	X	544	57.083	110.030	117.761	1.00	0.00	O
ATOM	5512	N	PHE	X	545	55.513	111.045	116.661	1.00	0.00	N
ATOM	5513	H	PHE	X	545	54.680	111.006	116.094	1.00	0.00	H
ATOM	5514	CA	PHE	X	545	56.328	112.278	116.337	1.00	0.00	C
ATOM	5515	HA	PHE	X	545	57.329	112.236	116.768	1.00	0.00	H
ATOM	5516	CB	PHE	X	545	56.456	112.465	114.859	1.00	0.00	C
ATOM	5517	HB2	PHE	X	545	55.482	112.543	114.376	1.00	0.00	H
ATOM	5518	HB3	PHE	X	545	57.027	113.375	114.677	1.00	0.00	H
ATOM	5519	CG	PHE	X	545	57.019	111.341	114.198	1.00	0.00	C
ATOM	5520	CD1	PHE	X	545	58.461	111.176	114.397	1.00	0.00	C
ATOM	5521	HD1	PHE	X	545	58.959	111.931	114.987	1.00	0.00	H
ATOM	5522	CE1	PHE	X	545	59.125	110.044	113.777	1.00	0.00	C
ATOM	5523	HE1	PHE	X	545	60.203	109.967	113.756	1.00	0.00	H
ATOM	5524	CZ	PHE	X	545	58.328	109.132	113.085	1.00	0.00	C
ATOM	5525	HZ	PHE	X	545	58.785	108.267	112.627	1.00	0.00	H
ATOM	5526	CE2	PHE	X	545	56.924	109.260	113.031	1.00	0.00	C
ATOM	5527	HE2	PHE	X	545	56.326	108.536	112.497	1.00	0.00	H
ATOM	5528	CD2	PHE	X	545	56.284	110.329	113.535	1.00	0.00	C
ATOM	5529	HD2	PHE	X	545	55.248	110.531	113.308	1.00	0.00	H
ATOM	5530	C	PHE	X	545	55.527	113.495	116.947	1.00	0.00	C
ATOM	5531	O	PHE	X	545	54.356	113.676	116.587	1.00	0.00	O
ATOM	5532	N	SER	X	546	56.086	114.182	117.976	1.00	0.00	N
ATOM	5533	H	SER	X	546	56.983	113.919	118.355	1.00	0.00	H
ATOM	5534	CA	SER	X	546	55.590	115.531	118.498	1.00	0.00	C
ATOM	5535	HA	SER	X	546	54.520	115.557	118.701	1.00	0.00	H
ATOM	5536	CB	SER	X	546	56.375	115.816	119.754	1.00	0.00	C
ATOM	5537	HB2	SER	X	546	56.026	116.710	120.271	1.00	0.00	H
ATOM	5538	HB3	SER	X	546	56.211	115.003	120.461	1.00	0.00	H
ATOM	5539	OG	SER	X	546	57.744	116.092	119.506	1.00	0.00	O
ATOM	5540	HG	SER	X	546	58.271	115.730	120.223	1.00	0.00	H
ATOM	5541	C	SER	X	546	55.856	116.657	117.477	1.00	0.00	C
ATOM	5542	O	SER	X	546	56.686	116.653	116.620	1.00	0.00	O
ATOM	5543	N	ALA	X	547	55.032	117.713	117.654	1.00	0.00	N
ATOM	5544	H	ALA	X	547	54.401	117.743	118.442	1.00	0.00	H
ATOM	5545	CA	ALA	X	547	54.950	118.896	116.709	1.00	0.00	C
ATOM	5546	HA	ALA	X	547	54.471	118.586	115.780	1.00	0.00	H
ATOM	5547	CB	ALA	X	547	54.072	119.953	117.322	1.00	0.00	C
ATOM	5548	HB1	ALA	X	547	54.044	120.754	116.582	1.00	0.00	H
ATOM	5549	HB2	ALA	X	547	53.065	119.553	117.432	1.00	0.00	H
ATOM	5550	HB3	ALA	X	547	54.517	120.290	118.257	1.00	0.00	H
ATOM	5551	C	ALA	X	547	56.432	119.417	116.390	1.00	0.00	C
ATOM	5552	O	ALA	X	547	56.680	119.781	115.247	1.00	0.00	O
ATOM	5553	N	GLN	X	548	57.331	119.326	117.314	1.00	0.00	N
ATOM	5554	H	GLN	X	548	56.965	119.012	118.202	1.00	0.00	H
ATOM	5555	CA	GLN	X	548	58.653	119.877	117.239	1.00	0.00	C
ATOM	5556	HA	GLN	X	548	58.591	120.702	116.530	1.00	0.00	H
ATOM	5557	CB	GLN	X	548	59.154	120.402	118.550	1.00	0.00	C
ATOM	5558	HB2	GLN	X	548	60.123	120.858	118.350	1.00	0.00	H
ATOM	5559	HB3	GLN	X	548	58.593	121.255	118.934	1.00	0.00	H
ATOM	5560	CG	GLN	X	548	59.262	119.425	119.728	1.00	0.00	C
ATOM	5561	HG2	GLN	X	548	59.652	118.462	119.398	1.00	0.00	H
ATOM	5562	HG3	GLN	X	548	60.058	119.771	120.387	1.00	0.00	H
ATOM	5563	CD	GLN	X	548	58.024	119.110	120.563	1.00	0.00	C
ATOM	5564	OE1	GLN	X	548	56.880	119.488	120.265	1.00	0.00	O
ATOM	5565	NE2	GLN	X	548	58.165	118.379	121.647	1.00	0.00	N
ATOM	5566	HE21	GLN	X	548	57.321	118.173	122.160	1.00	0.00	H
ATOM	5567	HE22	GLN	X	548	59.070	118.322	122.094	1.00	0.00	H
ATOM	5568	C	GLN	X	548	59.643	118.824	116.578	1.00	0.00	C
ATOM	5569	O	GLN	X	548	60.597	119.300	115.933	1.00	0.00	O
ATOM	5570	N	GLN	X	549	59.436	117.496	116.726	1.00	0.00	N
ATOM	5571	H	GLN	X	549	58.708	117.218	117.370	1.00	0.00	H
ATOM	5572	CA	GLN	X	549	60.148	116.379	116.132	1.00	0.00	C
ATOM	5573	HA	GLN	X	549	61.214	116.604	116.144	1.00	0.00	H
ATOM	5574	CB	GLN	X	549	59.815	115.069	116.786	1.00	0.00	C

ATOM	5575	HB2	GLN	X	549	58.744	115.008	116.980	1.00	0.00	H
ATOM	5576	HB3	GLN	X	549	60.050	114.255	116.099	1.00	0.00	H
ATOM	5577	CG	GLN	X	549	60.698	114.766	118.040	1.00	0.00	C
ATOM	5578	HG2	GLN	X	549	61.730	114.875	117.703	1.00	0.00	H
ATOM	5579	HG3	GLN	X	549	60.547	115.540	118.793	1.00	0.00	H
ATOM	5580	CD	GLN	X	549	60.625	113.353	118.483	1.00	0.00	C
ATOM	5581	OE1	GLN	X	549	59.986	112.436	117.954	1.00	0.00	O
ATOM	5582	NE2	GLN	X	549	61.336	113.080	119.593	1.00	0.00	N
ATOM	5583	HE21	GLN	X	549	61.238	112.144	119.963	1.00	0.00	H
ATOM	5584	HE22	GLN	X	549	62.077	113.666	119.947	1.00	0.00	H
ATOM	5585	C	GLN	X	549	59.744	116.368	114.624	1.00	0.00	C
ATOM	5586	O	GLN	X	549	60.459	115.742	113.812	1.00	0.00	O
ATOM	5587	N	LEU	X	550	58.598	116.948	114.262	1.00	0.00	N
ATOM	5588	H	LEU	X	550	57.939	117.099	115.013	1.00	0.00	H
ATOM	5589	CA	LEU	X	550	58.146	117.186	112.806	1.00	0.00	C
ATOM	5590	HA	LEU	X	550	58.492	116.385	112.152	1.00	0.00	H
ATOM	5591	CB	LEU	X	550	56.617	117.141	112.859	1.00	0.00	C
ATOM	5592	HB2	LEU	X	550	56.374	117.863	113.639	1.00	0.00	H
ATOM	5593	HB3	LEU	X	550	56.301	117.462	111.866	1.00	0.00	H
ATOM	5594	CG	LEU	X	550	55.965	115.783	113.268	1.00	0.00	C
ATOM	5595	HG	LEU	X	550	56.492	115.382	114.133	1.00	0.00	H
ATOM	5596	CD1	LEU	X	550	54.526	115.804	113.731	1.00	0.00	C
ATOM	5597	HD11	LEU	X	550	54.239	114.814	114.088	1.00	0.00	H
ATOM	5598	HD12	LEU	X	550	54.325	116.621	114.424	1.00	0.00	H
ATOM	5599	HD13	LEU	X	550	53.922	116.101	112.874	1.00	0.00	H
ATOM	5600	CD2	LEU	X	550	55.989	114.823	112.122	1.00	0.00	C
ATOM	5601	HD21	LEU	X	550	55.236	114.053	112.291	1.00	0.00	H
ATOM	5602	HD22	LEU	X	550	55.648	115.303	111.205	1.00	0.00	H
ATOM	5603	HD23	LEU	X	550	56.980	114.427	111.901	1.00	0.00	H
ATOM	5604	C	LEU	X	550	58.751	118.481	112.245	1.00	0.00	C
ATOM	5605	O	LEU	X	550	59.410	118.420	111.223	1.00	0.00	O
ATOM	5606	N	GLN	X	551	58.592	119.576	113.078	1.00	0.00	N
ATOM	5607	H	GLN	X	551	57.992	119.456	113.881	1.00	0.00	H
ATOM	5608	CA	GLN	X	551	59.038	120.901	112.607	1.00	0.00	C
ATOM	5609	HA	GLN	X	551	58.739	121.078	111.574	1.00	0.00	H
ATOM	5610	CB	GLN	X	551	58.408	122.039	113.427	1.00	0.00	C
ATOM	5611	HB2	GLN	X	551	57.407	122.106	113.000	1.00	0.00	H
ATOM	5612	HB3	GLN	X	551	58.363	121.839	114.498	1.00	0.00	H
ATOM	5613	CG	GLN	X	551	59.270	123.380	113.297	1.00	0.00	C
ATOM	5614	HG2	GLN	X	551	59.551	123.688	112.291	1.00	0.00	H
ATOM	5615	HG3	GLN	X	551	58.509	124.092	113.618	1.00	0.00	H
ATOM	5616	CD	GLN	X	551	60.491	123.565	114.223	1.00	0.00	C
ATOM	5617	OE1	GLN	X	551	60.512	123.108	115.329	1.00	0.00	O
ATOM	5618	NE2	GLN	X	551	61.446	124.351	113.757	1.00	0.00	N
ATOM	5619	HE21	GLN	X	551	62.201	124.652	114.358	1.00	0.00	H
ATOM	5620	HE22	GLN	X	551	61.441	124.564	112.770	1.00	0.00	H
ATOM	5621	C	GLN	X	551	60.613	120.960	112.528	1.00	0.00	C
ATOM	5622	O	GLN	X	551	61.250	121.727	111.837	1.00	0.00	O
ATOM	5623	N	ALA	X	552	61.312	120.062	113.227	1.00	0.00	N
ATOM	5624	H	ALA	X	552	60.877	119.451	113.902	1.00	0.00	H
ATOM	5625	CA	ALA	X	552	62.757	119.851	112.985	1.00	0.00	C
ATOM	5626	HA	ALA	X	552	63.322	120.782	112.962	1.00	0.00	H
ATOM	5627	CB	ALA	X	552	63.374	119.002	114.103	1.00	0.00	C
ATOM	5628	HB1	ALA	X	552	62.717	118.167	114.350	1.00	0.00	H
ATOM	5629	HB2	ALA	X	552	64.356	118.569	113.914	1.00	0.00	H
ATOM	5630	HB3	ALA	X	552	63.470	119.597	115.011	1.00	0.00	H
ATOM	5631	C	ALA	X	552	63.131	119.222	111.634	1.00	0.00	C
ATOM	5632	O	ALA	X	552	64.068	119.704	110.968	1.00	0.00	O
ATOM	5633	N	ALA	X	553	62.415	118.137	111.188	1.00	0.00	N
ATOM	5634	H	ALA	X	553	61.735	117.749	111.827	1.00	0.00	H
ATOM	5635	CA	ALA	X	553	62.507	117.570	109.813	1.00	0.00	C
ATOM	5636	HA	ALA	X	553	63.549	117.422	109.528	1.00	0.00	H
ATOM	5637	CB	ALA	X	553	61.599	116.332	109.754	1.00	0.00	C
ATOM	5638	HB1	ALA	X	553	60.577	116.698	109.856	1.00	0.00	H
ATOM	5639	HB2	ALA	X	553	61.703	115.775	108.823	1.00	0.00	H
ATOM	5640	HB3	ALA	X	553	61.840	115.589	110.516	1.00	0.00	H
ATOM	5641	C	ALA	X	553	61.972	118.563	108.719	1.00	0.00	C
ATOM	5642	O	ALA	X	553	61.823	118.171	107.541	1.00	0.00	O
ATOM	5643	N	GLN	X	554	61.611	119.791	109.059	1.00	0.00	N
ATOM	5644	H	GLN	X	554	61.794	120.056	110.018	1.00	0.00	H
ATOM	5645	CA	GLN	X	554	61.023	120.793	108.217	1.00	0.00	C
ATOM	5646	HA	GLN	X	554	60.733	121.662	108.807	1.00	0.00	H
ATOM	5647	CB	GLN	X	554	61.949	121.298	107.167	1.00	0.00	C
ATOM	5648	HB2	GLN	X	554	62.087	120.484	106.455	1.00	0.00	H
ATOM	5649	HB3	GLN	X	554	61.485	122.116	106.613	1.00	0.00	H
ATOM	5650	CG	GLN	X	554	63.228	121.934	107.844	1.00	0.00	C
ATOM	5651	HG2	GLN	X	554	62.865	122.798	108.402	1.00	0.00	H
ATOM	5652	HG3	GLN	X	554	63.715	121.266	108.554	1.00	0.00	H
ATOM	5653	CD	GLN	X	554	64.277	122.329	106.767	1.00	0.00	C
ATOM	5654	OE1	GLN	X	554	64.843	123.441	106.739	1.00	0.00	O
ATOM	5655	NE2	GLN	X	554	64.492	121.461	105.792	1.00	0.00	N
ATOM	5656	HE21	GLN	X	554	65.134	121.689	105.047	1.00	0.00	H

ATOM	5657	HE22	GLN	X	554	64.056	120.551	105.826	1.00	0.00	H
ATOM	5658	C	GLN	X	554	59.603	120.334	107.760	1.00	0.00	C
ATOM	5659	O	GLN	X	554	59.077	120.872	106.828	1.00	0.00	O
ATOM	5660	N	VAL	X	555	58.978	119.327	108.477	1.00	0.00	N
ATOM	5661	H	VAL	X	555	59.340	119.105	109.394	1.00	0.00	H
ATOM	5662	CA	VAL	X	555	57.610	118.805	108.157	1.00	0.00	C
ATOM	5663	HA	VAL	X	555	57.510	118.814	107.072	1.00	0.00	H
ATOM	5664	CB	VAL	X	555	57.442	117.287	108.722	1.00	0.00	C
ATOM	5665	HB	VAL	X	555	57.742	117.148	109.761	1.00	0.00	H
ATOM	5666	CG1	VAL	X	555	56.030	116.767	108.598	1.00	0.00	C
ATOM	5667	HG11	VAL	X	555	55.752	116.979	107.566	1.00	0.00	H
ATOM	5668	HG12	VAL	X	555	55.905	115.700	108.776	1.00	0.00	H
ATOM	5669	HG13	VAL	X	555	55.428	117.093	109.446	1.00	0.00	H
ATOM	5670	CG2	VAL	X	555	58.288	116.385	107.884	1.00	0.00	C
ATOM	5671	HG21	VAL	X	555	59.342	116.658	107.837	1.00	0.00	H
ATOM	5672	HG22	VAL	X	555	58.108	115.354	108.191	1.00	0.00	H
ATOM	5673	HG23	VAL	X	555	57.779	116.455	106.922	1.00	0.00	H
ATOM	5674	C	VAL	X	555	56.540	119.693	108.720	1.00	0.00	C
ATOM	5675	O	VAL	X	555	56.234	119.661	109.931	1.00	0.00	O
ATOM	5676	N	ASP	X	556	56.010	120.429	107.760	1.00	0.00	N
ATOM	5677	H	ASP	X	556	56.197	120.286	106.778	1.00	0.00	H
ATOM	5678	CA	ASP	X	556	54.931	121.403	107.977	1.00	0.00	C
ATOM	5679	HA	ASP	X	556	55.153	121.909	108.917	1.00	0.00	H
ATOM	5680	CB	ASP	X	556	54.863	122.402	106.812	1.00	0.00	C
ATOM	5681	HB2	ASP	X	556	54.851	121.857	105.870	1.00	0.00	H
ATOM	5682	HB3	ASP	X	556	54.009	123.079	106.840	1.00	0.00	H
ATOM	5683	CG	ASP	X	556	56.025	123.396	106.893	1.00	0.00	C
ATOM	5684	OD1	ASP	X	556	56.210	123.937	108.017	1.00	0.00	O
ATOM	5685	OD2	ASP	X	556	56.496	123.739	105.765	1.00	0.00	O
ATOM	5686	C	ASP	X	556	53.520	120.800	108.130	1.00	0.00	C
ATOM	5687	O	ASP	X	556	53.157	119.656	107.754	1.00	0.00	O
ATOM	5688	N	PRO	X	557	52.611	121.631	108.694	1.00	0.00	N
ATOM	5689	CD	PRO	X	557	52.751	122.962	109.301	1.00	0.00	C
ATOM	5690	HD2	PRO	X	557	53.335	123.626	108.664	1.00	0.00	H
ATOM	5691	HD3	PRO	X	557	53.214	122.856	110.283	1.00	0.00	H
ATOM	5692	CG	PRO	X	557	51.391	123.509	109.588	1.00	0.00	C
ATOM	5693	HG2	PRO	X	557	51.049	124.088	108.731	1.00	0.00	H
ATOM	5694	HG3	PRO	X	557	51.349	124.160	110.461	1.00	0.00	H
ATOM	5695	CB	PRO	X	557	50.457	122.274	109.679	1.00	0.00	C
ATOM	5696	HB2	PRO	X	557	49.468	122.509	109.283	1.00	0.00	H
ATOM	5697	HB3	PRO	X	557	50.462	121.821	110.670	1.00	0.00	H
ATOM	5698	CA	PRO	X	557	51.200	121.228	108.798	1.00	0.00	C
ATOM	5699	HA	PRO	X	557	51.328	120.300	109.355	1.00	0.00	H
ATOM	5700	C	PRO	X	557	50.407	120.925	107.582	1.00	0.00	C
ATOM	5701	O	PRO	X	557	49.487	120.104	107.525	1.00	0.00	O
ATOM	5702	N	ASP	X	558	50.822	121.494	106.465	1.00	0.00	N
ATOM	5703	H	ASP	X	558	51.674	122.033	106.500	1.00	0.00	H
ATOM	5704	CA	ASP	X	558	50.264	121.189	105.159	1.00	0.00	C
ATOM	5705	HA	ASP	X	558	49.174	121.181	105.121	1.00	0.00	H
ATOM	5706	CB	ASP	X	558	50.915	122.138	104.108	1.00	0.00	C
ATOM	5707	HB2	ASP	X	558	50.891	123.153	104.504	1.00	0.00	H
ATOM	5708	HB3	ASP	X	558	51.970	121.878	104.014	1.00	0.00	H
ATOM	5709	CG	ASP	X	558	50.126	122.136	102.795	1.00	0.00	C
ATOM	5710	OD1	ASP	X	558	48.911	121.899	102.832	1.00	0.00	O
ATOM	5711	OD2	ASP	X	558	50.862	122.054	101.794	1.00	0.00	O
ATOM	5712	C	ASP	X	558	50.640	119.729	104.749	1.00	0.00	C
ATOM	5713	O	ASP	X	558	49.852	118.946	104.249	1.00	0.00	O
ATOM	5714	N	ASP	X	559	51.897	119.300	105.072	1.00	0.00	N
ATOM	5715	H	ASP	X	559	52.518	119.844	105.655	1.00	0.00	H
ATOM	5716	CA	ASP	X	559	52.427	117.970	104.892	1.00	0.00	C
ATOM	5717	HA	ASP	X	559	52.138	117.645	103.893	1.00	0.00	H
ATOM	5718	CB	ASP	X	559	53.944	117.871	105.142	1.00	0.00	C
ATOM	5719	HB2	ASP	X	559	54.122	117.991	106.211	1.00	0.00	H
ATOM	5720	HB3	ASP	X	559	54.350	116.876	104.955	1.00	0.00	H
ATOM	5721	CG	ASP	X	559	54.746	119.045	104.394	1.00	0.00	C
ATOM	5722	OD1	ASP	X	559	54.401	119.314	103.226	1.00	0.00	O
ATOM	5723	OD2	ASP	X	559	55.731	119.588	105.046	1.00	0.00	O
ATOM	5724	C	ASP	X	559	51.902	116.915	105.872	1.00	0.00	C
ATOM	5725	O	ASP	X	559	51.503	115.808	105.496	1.00	0.00	O
ATOM	5726	N	ILE	X	560	51.825	117.250	107.199	1.00	0.00	N
ATOM	5727	H	ILE	X	560	52.280	118.120	107.437	1.00	0.00	H
ATOM	5728	CA	ILE	X	560	51.068	116.514	108.221	1.00	0.00	C
ATOM	5729	HA	ILE	X	560	51.484	115.509	108.288	1.00	0.00	H
ATOM	5730	CB	ILE	X	560	51.174	117.298	109.566	1.00	0.00	C
ATOM	5731	HB	ILE	X	560	51.097	118.372	109.393	1.00	0.00	H
ATOM	5732	CG2	ILE	X	560	50.092	116.806	110.558	1.00	0.00	C
ATOM	5733	HG21	ILE	X	560	49.119	117.206	110.272	1.00	0.00	H
ATOM	5734	HG22	ILE	X	560	49.964	115.739	110.747	1.00	0.00	H
ATOM	5735	HG23	ILE	X	560	50.309	117.171	111.561	1.00	0.00	H
ATOM	5736	CG1	ILE	X	560	52.602	117.032	110.159	1.00	0.00	C
ATOM	5737	HG12	ILE	X	560	52.574	116.152	110.802	1.00	0.00	H
ATOM	5738	HG13	ILE	X	560	53.327	116.881	109.360	1.00	0.00	H

ATOM	5739	CD1	ILE	X	560	53.146	118.170	111.096	1.00	0.00		C
ATOM	5740	HD11	ILE	X	560	52.554	118.144	112.010	1.00	0.00		H
ATOM	5741	HD12	ILE	X	560	54.181	117.918	111.327	1.00	0.00		H
ATOM	5742	HD13	ILE	X	560	53.019	119.141	110.619	1.00	0.00		H
ATOM	5743	C	ILE	X	560	49.628	116.390	107.720	1.00	0.00		C
ATOM	5744	O	ILE	X	560	49.204	115.249	107.528	1.00	0.00		O
ATOM	5745	N	SER	X	561	48.790	117.488	107.597	1.00	0.00		N
ATOM	5746	H	SER	X	561	49.025	118.436	107.853	1.00	0.00		H
ATOM	5747	CA	SER	X	561	47.440	117.291	107.026	1.00	0.00		C
ATOM	5748	HA	SER	X	561	47.047	116.375	107.466	1.00	0.00		H
ATOM	5749	CB	SER	X	561	46.525	118.489	107.431	1.00	0.00		C
ATOM	5750	HB2	SER	X	561	45.487	118.195	107.269	1.00	0.00		H
ATOM	5751	HB3	SER	X	561	46.725	118.622	108.494	1.00	0.00		H
ATOM	5752	OG	SER	X	561	46.820	119.729	106.657	1.00	0.00		O
ATOM	5753	HG	SER	X	561	47.715	120.044	106.806	1.00	0.00		H
ATOM	5754	C	SER	X	561	47.309	117.003	105.496	1.00	0.00		C
ATOM	5755	O	SER	X	561	46.318	117.343	104.865	1.00	0.00		O
ATOM	5756	N	LEU	X	562	48.355	116.333	104.922	1.00	0.00		N
ATOM	5757	H	LEU	X	562	49.202	116.270	105.470	1.00	0.00		H
ATOM	5758	CA	LEU	X	562	48.132	115.604	103.628	1.00	0.00		C
ATOM	5759	HA	LEU	X	562	47.450	116.283	103.116	1.00	0.00		H
ATOM	5760	CB	LEU	X	562	49.495	115.525	102.789	1.00	0.00		C
ATOM	5761	HB2	LEU	X	562	49.882	116.544	102.749	1.00	0.00		H
ATOM	5762	HB3	LEU	X	562	50.185	114.882	103.334	1.00	0.00		H
ATOM	5763	CG	LEU	X	562	49.381	115.033	101.322	1.00	0.00		C
ATOM	5764	HG	LEU	X	562	48.891	114.060	101.325	1.00	0.00		H
ATOM	5765	CD1	LEU	X	562	48.643	116.104	100.504	1.00	0.00		C
ATOM	5766	HD11	LEU	X	562	48.812	116.052	99.429	1.00	0.00		H
ATOM	5767	HD12	LEU	X	562	47.569	116.075	100.688	1.00	0.00		H
ATOM	5768	HD13	LEU	X	562	49.039	117.107	100.666	1.00	0.00		H
ATOM	5769	CD2	LEU	X	562	50.795	114.814	100.634	1.00	0.00		C
ATOM	5770	HD21	LEU	X	562	51.286	115.782	100.530	1.00	0.00		H
ATOM	5771	HD22	LEU	X	562	51.254	113.868	100.923	1.00	0.00		H
ATOM	5772	HD23	LEU	X	562	50.712	114.545	99.582	1.00	0.00		H
ATOM	5773	C	LEU	X	562	47.391	114.258	103.771	1.00	0.00		C
ATOM	5774	O	LEU	X	562	46.478	114.046	103.003	1.00	0.00		O
ATOM	5775	N	GLY	X	563	47.898	113.458	104.698	1.00	0.00		N
ATOM	5776	H	GLY	X	563	48.765	113.717	105.145	1.00	0.00		H
ATOM	5777	CA	GLY	X	563	47.041	112.332	105.283	1.00	0.00		C
ATOM	5778	HA2	GLY	X	563	46.622	112.692	106.223	1.00	0.00		H
ATOM	5779	HA3	GLY	X	563	46.260	112.032	104.585	1.00	0.00		H
ATOM	5780	C	GLY	X	563	47.679	110.957	105.570	1.00	0.00		C
ATOM	5781	O	GLY	X	563	47.035	110.085	106.098	1.00	0.00		O
ATOM	5782	N	PHE	X	564	48.944	110.700	105.252	1.00	0.00		N
ATOM	5783	H	PHE	X	564	49.522	111.465	104.934	1.00	0.00		H
ATOM	5784	CA	PHE	X	564	49.659	109.511	105.788	1.00	0.00		C
ATOM	5785	HA	PHE	X	564	49.019	108.662	105.543	1.00	0.00		H
ATOM	5786	CB	PHE	X	564	50.964	109.388	105.028	1.00	0.00		C
ATOM	5787	HB2	PHE	X	564	51.673	110.109	105.437	1.00	0.00		H
ATOM	5788	HB3	PHE	X	564	51.332	108.405	105.324	1.00	0.00		H
ATOM	5789	CG	PHE	X	564	50.747	109.515	103.498	1.00	0.00		C
ATOM	5790	CD1	PHE	X	564	51.227	110.618	102.833	1.00	0.00		C
ATOM	5791	HD1	PHE	X	564	51.826	111.326	103.387	1.00	0.00		H
ATOM	5792	CE1	PHE	X	564	50.870	110.865	101.489	1.00	0.00		C
ATOM	5793	HE1	PHE	X	564	51.302	111.731	101.013	1.00	0.00		H
ATOM	5794	CZ	PHE	X	564	50.103	109.862	100.834	1.00	0.00		C
ATOM	5795	HZ	PHE	X	564	49.766	109.983	99.815	1.00	0.00		H
ATOM	5796	CE2	PHE	X	564	49.555	108.747	101.476	1.00	0.00		C
ATOM	5797	HE2	PHE	X	564	48.884	108.151	100.875	1.00	0.00		H
ATOM	5798	CD2	PHE	X	564	49.907	108.535	102.813	1.00	0.00		C
ATOM	5799	HD2	PHE	X	564	49.494	107.695	103.351	1.00	0.00		H
ATOM	5800	C	PHE	X	564	49.879	109.465	107.343	1.00	0.00		C
ATOM	5801	O	PHE	X	564	49.826	108.377	107.858	1.00	0.00		O
ATOM	5802	N	LEU	X	565	50.102	110.576	108.001	1.00	0.00		N
ATOM	5803	H	LEU	X	565	50.018	111.444	107.493	1.00	0.00		H
ATOM	5804	CA	LEU	X	565	50.148	110.656	109.489	1.00	0.00		C
ATOM	5805	HA	LEU	X	565	50.643	109.799	109.944	1.00	0.00		H
ATOM	5806	CB	LEU	X	565	50.948	111.898	109.922	1.00	0.00		C
ATOM	5807	HB2	LEU	X	565	50.437	112.744	109.462	1.00	0.00		H
ATOM	5808	HB3	LEU	X	565	50.944	112.061	111.000	1.00	0.00		H
ATOM	5809	CG	LEU	X	565	52.465	111.979	109.478	1.00	0.00		C
ATOM	5810	HG	LEU	X	565	52.546	111.860	108.397	1.00	0.00		H
ATOM	5811	CD1	LEU	X	565	53.228	113.272	109.867	1.00	0.00		C
ATOM	5812	HD11	LEU	X	565	54.297	113.055	109.870	1.00	0.00		H
ATOM	5813	HD12	LEU	X	565	53.254	114.167	109.245	1.00	0.00		H
ATOM	5814	HD13	LEU	X	565	52.967	113.722	110.824	1.00	0.00		H
ATOM	5815	CD2	LEU	X	565	53.210	110.806	110.118	1.00	0.00		C
ATOM	5816	HD21	LEU	X	565	54.277	110.903	109.915	1.00	0.00		H
ATOM	5817	HD22	LEU	X	565	52.931	110.760	111.170	1.00	0.00		H
ATOM	5818	HD23	LEU	X	565	52.911	109.811	109.784	1.00	0.00		H
ATOM	5819	C	LEU	X	565	48.772	110.659	110.233	1.00	0.00		C
ATOM	5820	O	LEU	X	565	47.924	111.437	109.812	1.00	0.00		O

ATOM	5821	N	VAL	X	566	48.681	110.042	111.384	1.00	0.00	N
ATOM	5822	H	VAL	X	566	49.504	109.547	111.699	1.00	0.00	H
ATOM	5823	CA	VAL	X	566	47.410	109.900	112.170	1.00	0.00	C
ATOM	5824	HA	VAL	X	566	46.782	110.738	111.864	1.00	0.00	H
ATOM	5825	CB	VAL	X	566	46.732	108.568	111.844	1.00	0.00	C
ATOM	5826	HB	VAL	X	566	45.788	108.521	112.386	1.00	0.00	H
ATOM	5827	CG1	VAL	X	566	46.416	108.334	110.386	1.00	0.00	C
ATOM	5828	HG11	VAL	X	566	47.335	108.204	109.813	1.00	0.00	H
ATOM	5829	HG12	VAL	X	566	45.679	107.534	110.332	1.00	0.00	H
ATOM	5830	HG13	VAL	X	566	46.091	109.227	109.853	1.00	0.00	H
ATOM	5831	CG2	VAL	X	566	47.669	107.434	112.268	1.00	0.00	C
ATOM	5832	HG21	VAL	X	566	47.854	107.479	113.341	1.00	0.00	H
ATOM	5833	HG22	VAL	X	566	47.109	106.501	112.195	1.00	0.00	H
ATOM	5834	HG23	VAL	X	566	48.586	107.358	111.684	1.00	0.00	H
ATOM	5835	C	VAL	X	566	47.496	110.048	113.607	1.00	0.00	C
ATOM	5836	O	VAL	X	566	48.533	109.863	114.185	1.00	0.00	O
ATOM	5837	N	GLN	X	567	46.492	110.633	114.233	1.00	0.00	N
ATOM	5838	H	GLN	X	567	45.597	110.624	113.766	1.00	0.00	H
ATOM	5839	CA	GLN	X	567	46.584	111.112	115.653	1.00	0.00	C
ATOM	5840	HA	GLN	X	567	47.457	111.754	115.780	1.00	0.00	H
ATOM	5841	CB	GLN	X	567	45.388	112.056	116.036	1.00	0.00	C
ATOM	5842	HB2	GLN	X	567	44.441	111.603	115.737	1.00	0.00	H
ATOM	5843	HB3	GLN	X	567	45.429	112.246	117.109	1.00	0.00	H
ATOM	5844	CG	GLN	X	567	45.459	113.444	115.337	1.00	0.00	C
ATOM	5845	HG2	GLN	X	567	44.778	114.081	115.902	1.00	0.00	H
ATOM	5846	HG3	GLN	X	567	46.444	113.909	115.373	1.00	0.00	H
ATOM	5847	CD	GLN	X	567	45.157	113.434	113.803	1.00	0.00	C
ATOM	5848	OE1	GLN	X	567	44.464	112.578	113.303	1.00	0.00	O
ATOM	5849	NE2	GLN	X	567	45.651	114.370	113.019	1.00	0.00	N
ATOM	5850	HE21	GLN	X	567	45.570	114.173	112.033	1.00	0.00	H
ATOM	5851	HE22	GLN	X	567	46.107	115.162	113.450	1.00	0.00	H
ATOM	5852	C	GLN	X	567	46.604	109.980	116.652	1.00	0.00	C
ATOM	5853	O	GLN	X	567	45.676	109.138	116.440	1.00	0.00	O
ATOM	5854	N	ALA	X	568	47.573	109.952	117.566	1.00	0.00	N
ATOM	5855	H	ALA	X	568	48.233	110.714	117.642	1.00	0.00	H
ATOM	5856	CA	ALA	X	568	47.835	108.884	118.513	1.00	0.00	C
ATOM	5857	HA	ALA	X	568	47.998	107.953	117.969	1.00	0.00	H
ATOM	5858	CB	ALA	X	568	49.201	109.203	119.276	1.00	0.00	C
ATOM	5859	HB1	ALA	X	568	49.992	109.431	118.561	1.00	0.00	H
ATOM	5860	HB2	ALA	X	568	49.025	110.145	119.796	1.00	0.00	H
ATOM	5861	HB3	ALA	X	568	49.419	108.355	119.927	1.00	0.00	H
ATOM	5862	C	ALA	X	568	46.655	108.568	119.459	1.00	0.00	C
ATOM	5863	O	ALA	X	568	46.046	109.486	120.002	1.00	0.00	O
ATOM	5864	N	GLN	X	569	46.319	107.298	119.651	1.00	0.00	N
ATOM	5865	H	GLN	X	569	46.817	106.558	119.178	1.00	0.00	H
ATOM	5866	CA	GLN	X	569	45.137	106.937	120.410	1.00	0.00	C
ATOM	5867	HA	GLN	X	569	44.331	107.650	120.233	1.00	0.00	H
ATOM	5868	CB	GLN	X	569	44.725	105.521	119.893	1.00	0.00	C
ATOM	5869	HB2	GLN	X	569	45.644	104.938	119.837	1.00	0.00	H
ATOM	5870	HB3	GLN	X	569	43.915	105.152	120.522	1.00	0.00	H
ATOM	5871	CG	GLN	X	569	44.238	105.628	118.463	1.00	0.00	C
ATOM	5872	HG2	GLN	X	569	43.396	106.317	118.412	1.00	0.00	H
ATOM	5873	HG3	GLN	X	569	45.055	106.021	117.855	1.00	0.00	H
ATOM	5874	CD	GLN	X	569	43.837	104.307	117.864	1.00	0.00	C
ATOM	5875	OE1	GLN	X	569	43.482	103.285	118.529	1.00	0.00	O
ATOM	5876	NE2	GLN	X	569	43.572	104.327	116.566	1.00	0.00	N
ATOM	5877	HE21	GLN	X	569	42.990	103.604	116.169	1.00	0.00	H
ATOM	5878	HE22	GLN	X	569	43.871	105.135	116.039	1.00	0.00	H
ATOM	5879	C	GLN	X	569	45.400	106.875	121.909	1.00	0.00	C
ATOM	5880	O	GLN	X	569	46.501	106.589	122.415	1.00	0.00	O
ATOM	5881	N	GLY	X	570	44.311	107.146	122.677	1.00	0.00	N
ATOM	5882	H	GLY	X	570	43.396	107.384	122.322	1.00	0.00	H
ATOM	5883	CA	GLY	X	570	44.177	106.923	124.108	1.00	0.00	C
ATOM	5884	HA2	GLY	X	570	43.121	107.027	124.356	1.00	0.00	H
ATOM	5885	HA3	GLY	X	570	44.452	105.894	124.343	1.00	0.00	H
ATOM	5886	C	GLY	X	570	45.041	107.845	124.903	1.00	0.00	C
ATOM	5887	O	GLY	X	570	45.141	107.708	126.051	1.00	0.00	O
ATOM	5888	N	VAL	X	571	45.528	108.973	124.313	1.00	0.00	N
ATOM	5889	H	VAL	X	571	45.334	109.150	123.339	1.00	0.00	H
ATOM	5890	CA	VAL	X	571	46.518	109.834	124.963	1.00	0.00	C
ATOM	5891	HA	VAL	X	571	47.304	109.208	125.385	1.00	0.00	H
ATOM	5892	CB	VAL	X	571	47.280	110.766	123.975	1.00	0.00	C
ATOM	5893	HB	VAL	X	571	47.844	111.551	124.480	1.00	0.00	H
ATOM	5894	CG1	VAL	X	571	48.345	109.877	123.255	1.00	0.00	C
ATOM	5895	HG11	VAL	X	571	48.901	110.425	122.495	1.00	0.00	H
ATOM	5896	HG12	VAL	X	571	48.950	109.553	124.102	1.00	0.00	H
ATOM	5897	HG13	VAL	X	571	47.910	108.968	122.839	1.00	0.00	H
ATOM	5898	CG2	VAL	X	571	46.529	111.488	122.851	1.00	0.00	C
ATOM	5899	HG21	VAL	X	571	45.764	112.148	123.259	1.00	0.00	H
ATOM	5900	HG22	VAL	X	571	47.193	112.018	122.168	1.00	0.00	H
ATOM	5901	HG23	VAL	X	571	46.054	110.795	122.156	1.00	0.00	H
ATOM	5902	C	VAL	X	571	45.910	110.665	126.061	1.00	0.00	C

ATOM	5903	O	VAL	X	571	44.805	111.208	125.900	1.00	0.00	O
ATOM	5904	N	VAL	X	572	46.609	110.810	127.128	1.00	0.00	N
ATOM	5905	H	VAL	X	572	47.547	110.437	127.085	1.00	0.00	H
ATOM	5906	CA	VAL	X	572	45.975	111.366	128.316	1.00	0.00	C
ATOM	5907	HA	VAL	X	572	44.911	111.130	128.343	1.00	0.00	H
ATOM	5908	CB	VAL	X	572	46.551	110.755	129.592	1.00	0.00	C
ATOM	5909	HB	VAL	X	572	47.638	110.770	129.506	1.00	0.00	H
ATOM	5910	CG1	VAL	X	572	46.192	111.482	130.765	1.00	0.00	C
ATOM	5911	HG11	VAL	X	572	46.835	112.357	130.844	1.00	0.00	H
ATOM	5912	HG12	VAL	X	572	45.132	111.731	130.718	1.00	0.00	H
ATOM	5913	HG13	VAL	X	572	46.357	110.802	131.600	1.00	0.00	H
ATOM	5914	CG2	VAL	X	572	46.363	109.238	129.538	1.00	0.00	C
ATOM	5915	HG21	VAL	X	572	45.339	108.962	129.281	1.00	0.00	H
ATOM	5916	HG22	VAL	X	572	46.883	108.757	128.710	1.00	0.00	H
ATOM	5917	HG23	VAL	X	572	46.774	108.886	130.484	1.00	0.00	H
ATOM	5918	C	VAL	X	572	45.937	112.979	128.456	1.00	0.00	C
ATOM	5919	O	VAL	X	572	44.838	113.485	128.861	1.00	0.00	O
ATOM	5920	N	PRO	X	573	47.114	113.663	128.241	1.00	0.00	N
ATOM	5921	CD	PRO	X	573	48.452	113.232	127.855	1.00	0.00	C
ATOM	5922	HD2	PRO	X	573	48.518	112.790	126.860	1.00	0.00	H
ATOM	5923	HD3	PRO	X	573	48.743	112.441	128.545	1.00	0.00	H
ATOM	5924	CG	PRO	X	573	49.332	114.519	127.905	1.00	0.00	C
ATOM	5925	HG2	PRO	X	573	49.182	114.968	126.924	1.00	0.00	H
ATOM	5926	HG3	PRO	X	573	50.409	114.445	128.058	1.00	0.00	H
ATOM	5927	CB	PRO	X	573	48.600	115.376	128.931	1.00	0.00	C
ATOM	5928	HB2	PRO	X	573	48.888	116.415	128.774	1.00	0.00	H
ATOM	5929	HB3	PRO	X	573	48.882	115.101	129.948	1.00	0.00	H
ATOM	5930	CA	PRO	X	573	47.138	115.070	128.663	1.00	0.00	C
ATOM	5931	HA	PRO	X	573	46.677	115.171	129.647	1.00	0.00	H
ATOM	5932	C	PRO	X	573	46.532	116.066	127.648	1.00	0.00	C
ATOM	5933	O	PRO	X	573	46.102	115.618	126.554	1.00	0.00	O
ATOM	5934	N	GLY	X	574	46.526	117.360	127.920	1.00	0.00	N
ATOM	5935	H	GLY	X	574	46.708	117.611	128.882	1.00	0.00	H
ATOM	5936	CA	GLY	X	574	45.826	118.415	127.042	1.00	0.00	C
ATOM	5937	HA2	GLY	X	574	45.080	117.841	126.493	1.00	0.00	H
ATOM	5938	HA3	GLY	X	574	45.292	119.104	127.698	1.00	0.00	H
ATOM	5939	C	GLY	X	574	46.770	119.194	126.187	1.00	0.00	C
ATOM	5940	O	GLY	X	574	46.255	119.971	125.284	1.00	0.00	O
ATOM	5941	N	SER	X	575	48.090	119.004	126.270	1.00	0.00	N
ATOM	5942	H	SER	X	575	48.454	118.260	126.847	1.00	0.00	H
ATOM	5943	CA	SER	X	575	49.087	119.283	125.197	1.00	0.00	C
ATOM	5944	HA	SER	X	575	49.027	120.321	124.870	1.00	0.00	H
ATOM	5945	CB	SER	X	575	50.513	118.989	125.793	1.00	0.00	C
ATOM	5946	HB2	SER	X	575	51.248	118.988	124.987	1.00	0.00	H
ATOM	5947	HB3	SER	X	575	50.716	119.710	126.584	1.00	0.00	H
ATOM	5948	OG	SER	X	575	50.606	117.721	126.329	1.00	0.00	O
ATOM	5949	HG	SER	X	575	50.690	117.047	125.651	1.00	0.00	H
ATOM	5950	C	SER	X	575	48.894	118.511	123.912	1.00	0.00	C
ATOM	5951	O	SER	X	575	48.445	117.367	123.885	1.00	0.00	O
ATOM	5952	N	THR	X	576	49.233	119.099	122.777	1.00	0.00	N
ATOM	5953	H	THR	X	576	49.634	120.010	122.949	1.00	0.00	H
ATOM	5954	CA	THR	X	576	49.055	118.638	121.351	1.00	0.00	C
ATOM	5955	HA	THR	X	576	48.047	118.854	120.999	1.00	0.00	H
ATOM	5956	CB	THR	X	576	49.996	119.424	120.443	1.00	0.00	C
ATOM	5957	HB	THR	X	576	51.053	119.207	120.594	1.00	0.00	H
ATOM	5958	CG2	THR	X	576	49.834	119.141	118.958	1.00	0.00	C
ATOM	5959	HG21	THR	X	576	49.971	118.081	118.740	1.00	0.00	H
ATOM	5960	HG22	THR	X	576	48.781	119.363	118.783	1.00	0.00	H
ATOM	5961	HG23	THR	X	576	50.549	119.597	118.274	1.00	0.00	H
ATOM	5962	OG1	THR	X	576	49.873	120.821	120.631	1.00	0.00	O
ATOM	5963	HG1	THR	X	576	50.698	121.269	120.433	1.00	0.00	H
ATOM	5964	C	THR	X	576	49.371	117.156	121.098	1.00	0.00	C
ATOM	5965	O	THR	X	576	50.478	116.748	121.427	1.00	0.00	O
ATOM	5966	N	ALA	X	577	48.460	116.375	120.569	1.00	0.00	N
ATOM	5967	H	ALA	X	577	47.578	116.839	120.410	1.00	0.00	H
ATOM	5968	CA	ALA	X	577	48.519	114.928	120.364	1.00	0.00	C
ATOM	5969	HA	ALA	X	577	48.735	114.437	121.313	1.00	0.00	H
ATOM	5970	CB	ALA	X	577	47.119	114.371	120.012	1.00	0.00	C
ATOM	5971	HB1	ALA	X	577	46.498	114.404	120.907	1.00	0.00	H
ATOM	5972	HB2	ALA	X	577	46.684	114.975	119.216	1.00	0.00	H
ATOM	5973	HB3	ALA	X	577	47.229	113.387	119.556	1.00	0.00	H
ATOM	5974	C	ALA	X	577	49.596	114.623	119.227	1.00	0.00	C
ATOM	5975	O	ALA	X	577	49.423	115.266	118.164	1.00	0.00	O
ATOM	5976	N	PRO	X	578	50.639	113.781	119.473	1.00	0.00	N
ATOM	5977	CD	PRO	X	578	50.861	112.989	120.713	1.00	0.00	C
ATOM	5978	HD2	PRO	X	578	49.940	112.502	121.033	1.00	0.00	H
ATOM	5979	HD3	PRO	X	578	51.310	113.620	121.479	1.00	0.00	H
ATOM	5980	CG	PRO	X	578	51.933	111.918	120.378	1.00	0.00	C
ATOM	5981	HG2	PRO	X	578	51.567	111.053	119.827	1.00	0.00	H
ATOM	5982	HG3	PRO	X	578	52.542	111.662	121.245	1.00	0.00	H
ATOM	5983	CB	PRO	X	578	52.765	112.765	119.351	1.00	0.00	C
ATOM	5984	HB2	PRO	X	578	53.344	111.982	118.861	1.00	0.00	H

ATOM	5985	HB3	PRO	X	578	53.405	113.513	119.819	1.00	0.00	H
ATOM	5986	CA	PRO	X	578	51.697	113.449	118.494	1.00	0.00	C
ATOM	5987	HA	PRO	X	578	52.017	114.277	117.861	1.00	0.00	H
ATOM	5988	C	PRO	X	578	51.100	112.442	117.486	1.00	0.00	C
ATOM	5989	O	PRO	X	578	49.941	111.974	117.674	1.00	0.00	O
ATOM	5990	N	LEU	X	579	51.788	112.325	116.286	1.00	0.00	N
ATOM	5991	H	LEU	X	579	52.711	112.726	116.212	1.00	0.00	H
ATOM	5992	CA	LEU	X	579	51.201	111.658	115.128	1.00	0.00	C
ATOM	5993	HA	LEU	X	579	50.197	111.281	115.318	1.00	0.00	H
ATOM	5994	CB	LEU	X	579	51.212	112.660	114.019	1.00	0.00	C
ATOM	5995	HB2	LEU	X	579	52.239	113.026	113.970	1.00	0.00	H
ATOM	5996	HB3	LEU	X	579	51.076	112.114	113.086	1.00	0.00	H
ATOM	5997	CG	LEU	X	579	50.111	113.795	114.035	1.00	0.00	C
ATOM	5998	HG	LEU	X	579	49.717	113.928	115.044	1.00	0.00	H
ATOM	5999	CD1	LEU	X	579	50.685	115.121	113.600	1.00	0.00	C
ATOM	6000	HD11	LEU	X	579	51.556	115.513	114.125	1.00	0.00	H
ATOM	6001	HD12	LEU	X	579	51.034	114.975	112.579	1.00	0.00	H
ATOM	6002	HD13	LEU	X	579	49.890	115.865	113.668	1.00	0.00	H
ATOM	6003	CD2	LEU	X	579	48.973	113.457	113.058	1.00	0.00	C
ATOM	6004	HD21	LEU	X	579	48.366	114.363	113.030	1.00	0.00	H
ATOM	6005	HD22	LEU	X	579	49.300	113.235	112.044	1.00	0.00	H
ATOM	6006	HD23	LEU	X	579	48.376	112.666	113.511	1.00	0.00	H
ATOM	6007	C	LEU	X	579	52.157	110.480	114.698	1.00	0.00	C
ATOM	6008	O	LEU	X	579	53.333	110.453	115.020	1.00	0.00	O
ATOM	6009	N	GLU	X	580	51.547	109.495	113.993	1.00	0.00	N
ATOM	6010	H	GLU	X	580	50.546	109.472	113.864	1.00	0.00	H
ATOM	6011	CA	GLU	X	580	52.279	108.365	113.444	1.00	0.00	C
ATOM	6012	HA	GLU	X	580	53.348	108.581	113.434	1.00	0.00	H
ATOM	6013	CB	GLU	X	580	52.154	107.179	114.390	1.00	0.00	C
ATOM	6014	HB2	GLU	X	580	52.642	106.388	113.819	1.00	0.00	H
ATOM	6015	HB3	GLU	X	580	52.674	107.354	115.332	1.00	0.00	H
ATOM	6016	CG	GLU	X	580	50.699	106.816	114.787	1.00	0.00	C
ATOM	6017	HG2	GLU	X	580	50.339	107.688	115.335	1.00	0.00	H
ATOM	6018	HG3	GLU	X	580	50.121	106.573	113.896	1.00	0.00	H
ATOM	6019	CD	GLU	X	580	50.842	105.586	115.666	1.00	0.00	C
ATOM	6020	OE1	GLU	X	580	50.105	105.532	116.686	1.00	0.00	O
ATOM	6021	OE2	GLU	X	580	51.592	104.621	115.455	1.00	0.00	O
ATOM	6022	C	GLU	X	580	51.883	108.054	112.034	1.00	0.00	C
ATOM	6023	O	GLU	X	580	50.773	108.445	111.659	1.00	0.00	O
ATOM	6024	N	PHE	X	581	52.697	107.340	111.251	1.00	0.00	N
ATOM	6025	H	PHE	X	581	53.552	106.964	111.635	1.00	0.00	H
ATOM	6026	CA	PHE	X	581	52.266	106.929	109.927	1.00	0.00	C
ATOM	6027	HA	PHE	X	581	51.783	107.686	109.310	1.00	0.00	H
ATOM	6028	CB	PHE	X	581	53.430	106.373	109.036	1.00	0.00	C
ATOM	6029	HB2	PHE	X	581	53.946	105.591	109.593	1.00	0.00	H
ATOM	6030	HB3	PHE	X	581	53.003	105.906	108.147	1.00	0.00	H
ATOM	6031	CG	PHE	X	581	54.346	107.481	108.608	1.00	0.00	C
ATOM	6032	CD1	PHE	X	581	54.039	108.259	107.492	1.00	0.00	C
ATOM	6033	HD1	PHE	X	581	53.152	108.144	106.889	1.00	0.00	H
ATOM	6034	CE1	PHE	X	581	54.970	109.241	107.020	1.00	0.00	C
ATOM	6035	HE1	PHE	X	581	54.754	109.903	106.194	1.00	0.00	H
ATOM	6036	CZ	PHE	X	581	56.097	109.527	107.845	1.00	0.00	C
ATOM	6037	HZ	PHE	X	581	56.731	110.361	107.585	1.00	0.00	H
ATOM	6038	CE2	PHE	X	581	56.354	108.778	109.032	1.00	0.00	C
ATOM	6039	HE2	PHE	X	581	57.223	108.961	109.647	1.00	0.00	H
ATOM	6040	CD2	PHE	X	581	55.420	107.797	109.427	1.00	0.00	C
ATOM	6041	HD2	PHE	X	581	55.545	107.310	110.383	1.00	0.00	H
ATOM	6042	C	PHE	X	581	51.190	105.882	110.191	1.00	0.00	C
ATOM	6043	O	PHE	X	581	51.297	105.004	111.126	1.00	0.00	O
ATOM	6044	N	LEU	X	582	50.051	105.984	109.417	1.00	0.00	N
ATOM	6045	H	LEU	X	582	50.052	106.746	108.753	1.00	0.00	H
ATOM	6046	CA	LEU	X	582	49.049	104.906	109.426	1.00	0.00	C
ATOM	6047	HA	LEU	X	582	48.601	105.133	110.394	1.00	0.00	H
ATOM	6048	CB	LEU	X	582	48.004	105.174	108.359	1.00	0.00	C
ATOM	6049	HB2	LEU	X	582	47.183	104.600	108.786	1.00	0.00	H
ATOM	6050	HB3	LEU	X	582	47.775	106.238	108.406	1.00	0.00	H
ATOM	6051	CG	LEU	X	582	48.329	104.697	106.974	1.00	0.00	C
ATOM	6052	HG	LEU	X	582	48.255	103.610	106.941	1.00	0.00	H
ATOM	6053	CD1	LEU	X	582	47.295	105.249	105.985	1.00	0.00	C
ATOM	6054	HD11	LEU	X	582	46.325	104.780	106.155	1.00	0.00	H
ATOM	6055	HD12	LEU	X	582	47.199	106.334	105.985	1.00	0.00	H
ATOM	6056	HD13	LEU	X	582	47.675	104.985	104.997	1.00	0.00	H
ATOM	6057	CD2	LEU	X	582	49.650	105.096	106.393	1.00	0.00	C
ATOM	6058	HD21	LEU	X	582	49.648	105.161	105.304	1.00	0.00	H
ATOM	6059	HD22	LEU	X	582	50.095	106.002	106.805	1.00	0.00	H
ATOM	6060	HD23	LEU	X	582	50.312	104.320	106.777	1.00	0.00	H
ATOM	6061	C	LEU	X	582	49.487	103.495	109.473	1.00	0.00	C
ATOM	6062	O	LEU	X	582	48.708	102.728	110.056	1.00	0.00	O
ATOM	6063	N	HIE	X	583	50.733	103.121	109.208	1.00	0.00	N
ATOM	6064	H	HIE	X	583	51.470	103.726	108.877	1.00	0.00	H
ATOM	6065	CA	HIE	X	583	51.314	101.824	109.406	1.00	0.00	C
ATOM	6066	HA	HIE	X	583	51.069	101.457	110.403	1.00	0.00	H

ATOM	6067	CB	HIE	X	583	50.686	100.834	108.291	1.00	0.00	C
ATOM	6068	HB2	HIE	X	583	49.611	100.930	108.137	1.00	0.00	H
ATOM	6069	HB3	HIE	X	583	51.155	101.062	107.334	1.00	0.00	H
ATOM	6070	CG	HIE	X	583	50.903	99.341	108.547	1.00	0.00	C
ATOM	6071	ND1	HIE	X	583	52.013	98.773	109.148	1.00	0.00	N
ATOM	6072	CE1	HIE	X	583	51.827	97.429	109.146	1.00	0.00	C
ATOM	6073	HE1	HIE	X	583	52.656	96.737	109.173	1.00	0.00	H
ATOM	6074	NE2	HIE	X	583	50.619	97.093	108.685	1.00	0.00	N
ATOM	6075	HE2	HIE	X	583	50.299	96.138	108.618	1.00	0.00	H
ATOM	6076	CD2	HIE	X	583	50.016	98.293	108.301	1.00	0.00	C
ATOM	6077	HD2	HIE	X	583	49.035	98.395	107.861	1.00	0.00	H
ATOM	6078	C	HIE	X	583	52.798	101.985	109.409	1.00	0.00	C
ATOM	6079	O	HIE	X	583	53.282	102.659	108.539	1.00	0.00	O
ATOM	6080	N	ILE	X	584	53.533	101.164	110.231	1.00	0.00	N
ATOM	6081	H	ILE	X	584	53.047	100.588	110.904	1.00	0.00	H
ATOM	6082	CA	ILE	X	584	54.997	101.131	110.234	1.00	0.00	C
ATOM	6083	HA	ILE	X	584	55.388	102.138	110.378	1.00	0.00	H
ATOM	6084	CB	ILE	X	584	55.597	100.387	111.455	1.00	0.00	C
ATOM	6085	HB	ILE	X	584	55.052	100.866	112.268	1.00	0.00	H
ATOM	6086	CG2	ILE	X	584	55.231	98.922	111.566	1.00	0.00	C
ATOM	6087	HG21	ILE	X	584	55.659	98.382	110.723	1.00	0.00	H
ATOM	6088	HG22	ILE	X	584	55.588	98.542	112.524	1.00	0.00	H
ATOM	6089	HG23	ILE	X	584	54.154	98.780	111.474	1.00	0.00	H
ATOM	6090	CG1	ILE	X	584	57.091	100.770	111.569	1.00	0.00	C
ATOM	6091	HG12	ILE	X	584	57.638	100.171	110.843	1.00	0.00	H
ATOM	6092	HG13	ILE	X	584	57.255	101.826	111.355	1.00	0.00	H
ATOM	6093	CD1	ILE	X	584	57.768	100.426	112.895	1.00	0.00	C
ATOM	6094	HD11	ILE	X	584	57.764	99.356	113.099	1.00	0.00	H
ATOM	6095	HD12	ILE	X	584	58.831	100.634	112.770	1.00	0.00	H
ATOM	6096	HD13	ILE	X	584	57.282	100.962	113.709	1.00	0.00	H
ATOM	6097	C	ILE	X	584	55.547	100.724	108.852	1.00	0.00	C
ATOM	6098	O	ILE	X	584	56.497	101.274	108.272	1.00	0.00	O
ATOM	6099	N	THR	X	585	54.878	99.738	108.199	1.00	0.00	N
ATOM	6100	H	THR	X	585	54.311	99.124	108.766	1.00	0.00	H
ATOM	6101	CA	THR	X	585	55.114	99.341	106.789	1.00	0.00	C
ATOM	6102	HA	THR	X	585	56.044	98.794	106.645	1.00	0.00	H
ATOM	6103	CB	THR	X	585	54.201	98.145	106.369	1.00	0.00	C
ATOM	6104	HB	THR	X	585	54.376	97.934	105.315	1.00	0.00	H
ATOM	6105	CG2	THR	X	585	54.485	96.779	107.088	1.00	0.00	C
ATOM	6106	HG21	THR	X	585	55.303	96.162	106.715	1.00	0.00	H
ATOM	6107	HG22	THR	X	585	54.739	96.910	108.140	1.00	0.00	H
ATOM	6108	HG23	THR	X	585	53.712	96.036	106.895	1.00	0.00	H
ATOM	6109	OG1	THR	X	585	52.851	98.536	106.495	1.00	0.00	O
ATOM	6110	HG1	THR	X	585	52.754	98.680	107.440	1.00	0.00	H
ATOM	6111	C	THR	X	585	54.972	100.513	105.768	1.00	0.00	C
ATOM	6112	O	THR	X	585	55.842	100.586	104.867	1.00	0.00	O
ATOM	6113	N	PHE	X	586	54.126	101.475	106.074	1.00	0.00	N
ATOM	6114	H	PHE	X	586	53.644	101.496	106.960	1.00	0.00	H
ATOM	6115	CA	PHE	X	586	54.108	102.674	105.295	1.00	0.00	C
ATOM	6116	HA	PHE	X	586	54.235	102.419	104.242	1.00	0.00	H
ATOM	6117	CB	PHE	X	586	52.732	103.334	105.473	1.00	0.00	C
ATOM	6118	HB2	PHE	X	586	51.902	102.668	105.707	1.00	0.00	H
ATOM	6119	HB3	PHE	X	586	52.833	104.082	106.259	1.00	0.00	H
ATOM	6120	CG	PHE	X	586	52.294	104.065	104.201	1.00	0.00	C
ATOM	6121	CD1	PHE	X	586	52.467	105.468	104.036	1.00	0.00	C
ATOM	6122	HD1	PHE	X	586	52.843	106.089	104.835	1.00	0.00	H
ATOM	6123	CE1	PHE	X	586	52.285	106.016	102.727	1.00	0.00	C
ATOM	6124	HE1	PHE	X	586	52.339	107.089	102.627	1.00	0.00	H
ATOM	6125	CZ	PHE	X	586	51.672	105.245	101.724	1.00	0.00	C
ATOM	6126	HZ	PHE	X	586	51.287	105.776	100.866	1.00	0.00	H
ATOM	6127	CE2	PHE	X	586	51.384	103.900	101.933	1.00	0.00	C
ATOM	6128	HE2	PHE	X	586	50.833	103.312	101.213	1.00	0.00	H
ATOM	6129	CD2	PHE	X	586	51.782	103.317	103.168	1.00	0.00	C
ATOM	6130	HD2	PHE	X	586	51.590	102.267	103.336	1.00	0.00	H
ATOM	6131	C	PHE	X	586	55.224	103.713	105.670	1.00	0.00	C
ATOM	6132	O	PHE	X	586	55.672	104.425	104.765	1.00	0.00	O
ATOM	6133	N	GLN	X	587	55.580	103.840	106.952	1.00	0.00	N
ATOM	6134	H	GLN	X	587	55.066	103.407	107.706	1.00	0.00	H
ATOM	6135	CA	GLN	X	587	56.820	104.649	107.367	1.00	0.00	C
ATOM	6136	HA	GLN	X	587	56.707	105.706	107.122	1.00	0.00	H
ATOM	6137	CB	GLN	X	587	56.954	104.567	108.931	1.00	0.00	C
ATOM	6138	HB2	GLN	X	587	56.075	105.008	109.404	1.00	0.00	H
ATOM	6139	HB3	GLN	X	587	57.034	103.537	109.275	1.00	0.00	H
ATOM	6140	CG	GLN	X	587	58.206	105.318	109.345	1.00	0.00	C
ATOM	6141	HG2	GLN	X	587	59.002	104.864	108.757	1.00	0.00	H
ATOM	6142	HG3	GLN	X	587	58.022	106.345	109.029	1.00	0.00	H
ATOM	6143	CD	GLN	X	587	58.579	105.339	110.814	1.00	0.00	C
ATOM	6144	OE1	GLN	X	587	57.695	104.973	111.639	1.00	0.00	O
ATOM	6145	NE2	GLN	X	587	59.660	105.851	111.326	1.00	0.00	N
ATOM	6146	HE21	GLN	X	587	59.593	105.918	112.331	1.00	0.00	H
ATOM	6147	HE22	GLN	X	587	60.404	106.251	110.770	1.00	0.00	H
ATOM	6148	C	GLN	X	587	58.010	104.160	106.490	1.00	0.00	C

ATOM	6149	O	GLN	X	587	58.770	104.959	105.887	1.00	0.00	O
ATOM	6150	N	CYS	X	588	58.209	102.856	106.392	1.00	0.00	N
ATOM	6151	H	CYS	X	588	57.611	102.223	106.905	1.00	0.00	H
ATOM	6152	CA	CYS	X	588	59.173	102.149	105.508	1.00	0.00	C
ATOM	6153	HA	CYS	X	588	60.144	102.557	105.792	1.00	0.00	H
ATOM	6154	CB	CYS	X	588	59.124	100.586	105.845	1.00	0.00	C
ATOM	6155	HB2	CYS	X	588	58.147	100.119	105.732	1.00	0.00	H
ATOM	6156	HB3	CYS	X	588	59.810	100.113	105.139	1.00	0.00	H
ATOM	6157	SG	CYS	X	588	59.757	100.233	107.515	1.00	0.00	S
ATOM	6158	HG	CYS	X	588	60.973	100.723	107.255	1.00	0.00	H
ATOM	6159	C	CYS	X	588	58.989	102.423	104.027	1.00	0.00	C
ATOM	6160	O	CYS	X	588	59.966	102.812	103.408	1.00	0.00	O
ATOM	6161	N	PHE	X	589	57.802	102.336	103.461	1.00	0.00	N
ATOM	6162	H	PHE	X	589	56.999	101.960	103.945	1.00	0.00	H
ATOM	6163	CA	PHE	X	589	57.588	102.574	102.055	1.00	0.00	C
ATOM	6164	HA	PHE	X	589	58.233	101.907	101.484	1.00	0.00	H
ATOM	6165	CB	PHE	X	589	56.089	102.324	101.748	1.00	0.00	C
ATOM	6166	HB2	PHE	X	589	56.070	101.234	101.741	1.00	0.00	H
ATOM	6167	HB3	PHE	X	589	55.471	102.624	102.595	1.00	0.00	H
ATOM	6168	CG	PHE	X	589	55.472	102.884	100.470	1.00	0.00	C
ATOM	6169	CD1	PHE	X	589	55.896	102.454	99.184	1.00	0.00	C
ATOM	6170	HD1	PHE	X	589	56.676	101.711	99.115	1.00	0.00	H
ATOM	6171	CE1	PHE	X	589	55.336	103.008	98.048	1.00	0.00	C
ATOM	6172	HE1	PHE	X	589	55.655	102.581	97.109	1.00	0.00	H
ATOM	6173	CZ	PHE	X	589	54.416	104.118	98.200	1.00	0.00	C
ATOM	6174	HZ	PHE	X	589	54.061	104.644	97.326	1.00	0.00	H
ATOM	6175	CE2	PHE	X	589	53.948	104.499	99.449	1.00	0.00	C
ATOM	6176	HE2	PHE	X	589	53.187	105.259	99.549	1.00	0.00	H
ATOM	6177	CD2	PHE	X	589	54.531	103.897	100.560	1.00	0.00	C
ATOM	6178	HD2	PHE	X	589	54.299	104.225	101.561	1.00	0.00	H
ATOM	6179	C	PHE	X	589	58.009	104.068	101.716	1.00	0.00	C
ATOM	6180	O	PHE	X	589	58.716	104.228	100.753	1.00	0.00	O
ATOM	6181	N	LEU	X	590	57.670	105.068	102.580	1.00	0.00	N
ATOM	6182	H	LEU	X	590	57.129	104.903	103.416	1.00	0.00	H
ATOM	6183	CA	LEU	X	590	58.112	106.423	102.538	1.00	0.00	C
ATOM	6184	HA	LEU	X	590	57.905	106.824	101.545	1.00	0.00	H
ATOM	6185	CB	LEU	X	590	57.256	107.320	103.398	1.00	0.00	C
ATOM	6186	HB2	LEU	X	590	57.334	106.916	104.407	1.00	0.00	H
ATOM	6187	HB3	LEU	X	590	57.660	108.324	103.531	1.00	0.00	H
ATOM	6188	CG	LEU	X	590	55.753	107.465	103.032	1.00	0.00	C
ATOM	6189	HG	LEU	X	590	55.392	106.440	102.950	1.00	0.00	H
ATOM	6190	CD1	LEU	X	590	54.923	108.204	104.019	1.00	0.00	C
ATOM	6191	HD11	LEU	X	590	53.871	108.363	103.788	1.00	0.00	H
ATOM	6192	HD12	LEU	X	590	55.024	107.721	104.991	1.00	0.00	H
ATOM	6193	HD13	LEU	X	590	55.397	109.181	104.118	1.00	0.00	H
ATOM	6194	CD2	LEU	X	590	55.563	108.278	101.669	1.00	0.00	C
ATOM	6195	HD21	LEU	X	590	54.530	108.579	101.492	1.00	0.00	H
ATOM	6196	HD22	LEU	X	590	56.122	109.204	101.802	1.00	0.00	H
ATOM	6197	HD23	LEU	X	590	55.995	107.652	100.888	1.00	0.00	H
ATOM	6198	C	LEU	X	590	59.672	106.677	102.771	1.00	0.00	C
ATOM	6199	O	LEU	X	590	60.278	107.432	102.052	1.00	0.00	O
ATOM	6200	N	ALA	X	591	60.363	105.973	103.657	1.00	0.00	N
ATOM	6201	H	ALA	X	591	59.866	105.438	104.355	1.00	0.00	H
ATOM	6202	CA	ALA	X	591	61.803	105.974	103.682	1.00	0.00	C
ATOM	6203	HA	ALA	X	591	62.158	106.996	103.811	1.00	0.00	H
ATOM	6204	CB	ALA	X	591	62.138	105.177	104.897	1.00	0.00	C
ATOM	6205	HB1	ALA	X	591	63.177	105.296	105.200	1.00	0.00	H
ATOM	6206	HB2	ALA	X	591	61.507	105.576	105.690	1.00	0.00	H
ATOM	6207	HB3	ALA	X	591	61.849	104.147	104.689	1.00	0.00	H
ATOM	6208	C	ALA	X	591	62.430	105.535	102.367	1.00	0.00	C
ATOM	6209	O	ALA	X	591	63.395	106.152	101.942	1.00	0.00	O
ATOM	6210	N	ALA	X	592	61.887	104.487	101.758	1.00	0.00	N
ATOM	6211	H	ALA	X	592	61.087	103.972	102.097	1.00	0.00	H
ATOM	6212	CA	ALA	X	592	62.419	103.918	100.552	1.00	0.00	C
ATOM	6213	HA	ALA	X	592	63.492	103.871	100.727	1.00	0.00	H
ATOM	6214	CB	ALA	X	592	61.789	102.596	100.119	1.00	0.00	C
ATOM	6215	HB1	ALA	X	592	61.998	102.398	99.069	1.00	0.00	H
ATOM	6216	HB2	ALA	X	592	62.261	101.824	100.727	1.00	0.00	H
ATOM	6217	HB3	ALA	X	592	60.720	102.717	100.301	1.00	0.00	H
ATOM	6218	C	ALA	X	592	62.183	104.928	99.367	1.00	0.00	C
ATOM	6219	O	ALA	X	592	62.983	105.080	98.433	1.00	0.00	O
ATOM	6220	N	PHE	X	593	60.979	105.604	99.330	1.00	0.00	N
ATOM	6221	H	PHE	X	593	60.303	105.354	100.039	1.00	0.00	H
ATOM	6222	CA	PHE	X	593	60.629	106.681	98.355	1.00	0.00	C
ATOM	6223	HA	PHE	X	593	60.735	106.133	97.418	1.00	0.00	H
ATOM	6224	CB	PHE	X	593	59.213	107.294	98.780	1.00	0.00	C
ATOM	6225	HB2	PHE	X	593	58.575	106.429	98.959	1.00	0.00	H
ATOM	6226	HB3	PHE	X	593	59.394	107.848	99.701	1.00	0.00	H
ATOM	6227	CG	PHE	X	593	58.576	108.072	97.721	1.00	0.00	C
ATOM	6228	CD1	PHE	X	593	57.627	107.433	96.870	1.00	0.00	C
ATOM	6229	HD1	PHE	X	593	57.357	106.396	97.001	1.00	0.00	H
ATOM	6230	CE1	PHE	X	593	57.088	108.147	95.778	1.00	0.00	C

ATOM	6231	HE1	PHE	X	593	56.370	107.673	95.125	1.00	0.00	H
ATOM	6232	CZ	PHE	X	593	57.253	109.499	95.684	1.00	0.00	C
ATOM	6233	HZ	PHE	X	593	56.786	110.115	94.928	1.00	0.00	H
ATOM	6234	CE2	PHE	X	593	58.100	110.229	96.560	1.00	0.00	C
ATOM	6235	HE2	PHE	X	593	58.296	111.285	96.439	1.00	0.00	H
ATOM	6236	CD2	PHE	X	593	58.725	109.470	97.649	1.00	0.00	C
ATOM	6237	HD2	PHE	X	593	59.305	110.007	98.386	1.00	0.00	H
ATOM	6238	C	PHE	X	593	61.747	107.755	98.364	1.00	0.00	C
ATOM	6239	O	PHE	X	593	62.291	108.089	97.315	1.00	0.00	O
ATOM	6240	N	TYR	X	594	62.114	108.263	99.548	1.00	0.00	N
ATOM	6241	H	TYR	X	594	61.663	107.857	100.355	1.00	0.00	H
ATOM	6242	CA	TYR	X	594	63.246	109.172	99.733	1.00	0.00	C
ATOM	6243	HA	TYR	X	594	63.043	110.019	99.077	1.00	0.00	H
ATOM	6244	CB	TYR	X	594	63.251	109.683	101.142	1.00	0.00	C
ATOM	6245	HB2	TYR	X	594	62.292	110.185	101.278	1.00	0.00	H
ATOM	6246	HB3	TYR	X	594	63.423	108.894	101.871	1.00	0.00	H
ATOM	6247	CG	TYR	X	594	64.363	110.707	101.367	1.00	0.00	C
ATOM	6248	CD1	TYR	X	594	64.095	112.118	101.185	1.00	0.00	C
ATOM	6249	HD1	TYR	X	594	63.086	112.409	100.936	1.00	0.00	H
ATOM	6250	CE1	TYR	X	594	65.078	113.123	101.369	1.00	0.00	C
ATOM	6251	HE1	TYR	X	594	64.829	114.157	101.184	1.00	0.00	H
ATOM	6252	CZ	TYR	X	594	66.352	112.733	101.849	1.00	0.00	C
ATOM	6253	OH	TYR	X	594	67.344	113.625	102.106	1.00	0.00	O
ATOM	6254	HH	TYR	X	594	68.184	113.301	102.443	1.00	0.00	H
ATOM	6255	CE2	TYR	X	594	66.696	111.376	102.012	1.00	0.00	C
ATOM	6256	HE2	TYR	X	594	67.656	111.061	102.394	1.00	0.00	H
ATOM	6257	CD2	TYR	X	594	65.698	110.377	101.885	1.00	0.00	C
ATOM	6258	HD2	TYR	X	594	65.880	109.327	102.067	1.00	0.00	H
ATOM	6259	C	TYR	X	594	64.559	108.629	99.270	1.00	0.00	C
ATOM	6260	O	TYR	X	594	65.274	109.313	98.617	1.00	0.00	O
ATOM	6261	N	LEU	X	595	64.987	107.435	99.610	1.00	0.00	N
ATOM	6262	H	LEU	X	595	64.418	106.832	100.189	1.00	0.00	H
ATOM	6263	CA	LEU	X	595	66.178	106.839	99.134	1.00	0.00	C
ATOM	6264	HA	LEU	X	595	66.966	107.551	99.378	1.00	0.00	H
ATOM	6265	CB	LEU	X	595	66.307	105.644	100.056	1.00	0.00	C
ATOM	6266	HB2	LEU	X	595	65.415	105.044	99.871	1.00	0.00	H
ATOM	6267	HB3	LEU	X	595	67.120	105.054	99.633	1.00	0.00	H
ATOM	6268	CG	LEU	X	595	66.705	105.667	101.598	1.00	0.00	C
ATOM	6269	HG	LEU	X	595	66.061	106.343	102.162	1.00	0.00	H
ATOM	6270	CD1	LEU	X	595	66.466	104.198	102.092	1.00	0.00	C
ATOM	6271	HD11	LEU	X	595	67.157	103.970	102.904	1.00	0.00	H
ATOM	6272	HD12	LEU	X	595	65.468	104.078	102.514	1.00	0.00	H
ATOM	6273	HD13	LEU	X	595	66.408	103.485	101.271	1.00	0.00	H
ATOM	6274	CD2	LEU	X	595	68.147	106.026	101.688	1.00	0.00	C
ATOM	6275	HD21	LEU	X	595	68.418	106.489	102.638	1.00	0.00	H
ATOM	6276	HD22	LEU	X	595	68.792	105.155	101.575	1.00	0.00	H
ATOM	6277	HD23	LEU	X	595	68.393	106.690	100.861	1.00	0.00	H
ATOM	6278	C	LEU	X	595	66.317	106.555	97.652	1.00	0.00	C
ATOM	6279	O	LEU	X	595	67.463	106.465	97.120	1.00	0.00	O
ATOM	6280	N	VAL	X	596	65.166	106.512	96.990	1.00	0.00	N
ATOM	6281	H	VAL	X	596	64.313	106.714	97.493	1.00	0.00	H
ATOM	6282	CA	VAL	X	596	65.103	106.480	95.488	1.00	0.00	C
ATOM	6283	HA	VAL	X	596	65.988	105.971	95.104	1.00	0.00	H
ATOM	6284	CB	VAL	X	596	63.798	105.692	94.940	1.00	0.00	C
ATOM	6285	HB	VAL	X	596	62.923	106.187	95.362	1.00	0.00	H
ATOM	6286	CG1	VAL	X	596	63.838	105.694	93.379	1.00	0.00	C
ATOM	6287	HG11	VAL	X	596	63.916	106.741	93.089	1.00	0.00	H
ATOM	6288	HG12	VAL	X	596	64.600	105.021	92.986	1.00	0.00	H
ATOM	6289	HG13	VAL	X	596	62.892	105.298	93.009	1.00	0.00	H
ATOM	6290	CG2	VAL	X	596	63.785	104.176	95.400	1.00	0.00	C
ATOM	6291	HG21	VAL	X	596	62.979	103.561	94.997	1.00	0.00	H
ATOM	6292	HG22	VAL	X	596	64.691	103.612	95.181	1.00	0.00	H
ATOM	6293	HG23	VAL	X	596	63.858	104.113	96.485	1.00	0.00	H
ATOM	6294	C	VAL	X	596	65.162	107.905	94.914	1.00	0.00	C
ATOM	6295	O	VAL	X	596	66.075	108.241	94.159	1.00	0.00	O
ATOM	6296	N	LEU	X	597	64.121	108.677	95.305	1.00	0.00	N
ATOM	6297	H	LEU	X	597	63.350	108.371	95.882	1.00	0.00	H
ATOM	6298	CA	LEU	X	597	63.880	109.883	94.545	1.00	0.00	C
ATOM	6299	HA	LEU	X	597	64.277	109.794	93.533	1.00	0.00	H
ATOM	6300	CB	LEU	X	597	62.359	110.115	94.419	1.00	0.00	C
ATOM	6301	HB2	LEU	X	597	61.841	110.265	95.366	1.00	0.00	H
ATOM	6302	HB3	LEU	X	597	62.149	111.038	93.878	1.00	0.00	H
ATOM	6303	CG	LEU	X	597	61.681	109.064	93.562	1.00	0.00	C
ATOM	6304	HG	LEU	X	597	61.997	108.045	93.791	1.00	0.00	H
ATOM	6305	CD1	LEU	X	597	60.159	109.108	93.727	1.00	0.00	C
ATOM	6306	HD11	LEU	X	597	59.575	108.401	93.136	1.00	0.00	H
ATOM	6307	HD12	LEU	X	597	59.830	108.963	94.756	1.00	0.00	H
ATOM	6308	HD13	LEU	X	597	59.775	110.095	93.467	1.00	0.00	H
ATOM	6309	CD2	LEU	X	597	61.947	109.116	92.101	1.00	0.00	C
ATOM	6310	HD21	LEU	X	597	62.952	109.472	91.873	1.00	0.00	H
ATOM	6311	HD22	LEU	X	597	61.866	108.101	91.716	1.00	0.00	H
ATOM	6312	HD23	LEU	X	597	61.227	109.730	91.559	1.00	0.00	H

ATOM	6313	C	LEU	X	597	64.551	111.084	95.029	1.00	0.00		C
ATOM	6314	O	LEU	X	597	64.498	112.091	94.344	1.00	0.00		O
ATOM	6315	N	SER	X	598	65.213	110.972	96.170	1.00	0.00		N
ATOM	6316	H	SER	X	598	65.087	110.118	96.696	1.00	0.00		H
ATOM	6317	CA	SER	X	598	66.093	112.087	96.669	1.00	0.00		C
ATOM	6318	HA	SER	X	598	65.620	113.068	96.607	1.00	0.00		H
ATOM	6319	CB	SER	X	598	66.270	112.022	98.202	1.00	0.00		C
ATOM	6320	HB2	SER	X	598	65.350	111.898	98.772	1.00	0.00		H
ATOM	6321	HB3	SER	X	598	66.850	111.109	98.346	1.00	0.00		H
ATOM	6322	OG	SER	X	598	67.069	113.194	98.549	1.00	0.00		O
ATOM	6323	HG	SER	X	598	66.439	113.895	98.736	1.00	0.00		H
ATOM	6324	C	SER	X	598	67.430	112.233	95.915	1.00	0.00		C
ATOM	6325	O	SER	X	598	68.285	111.412	96.132	1.00	0.00		O
ATOM	6326	N	THR	X	599	67.682	113.327	95.162	1.00	0.00		N
ATOM	6327	H	THR	X	599	67.074	114.134	95.171	1.00	0.00		H
ATOM	6328	CA	THR	X	599	69.005	113.447	94.573	1.00	0.00		C
ATOM	6329	HA	THR	X	599	69.277	112.480	94.151	1.00	0.00		H
ATOM	6330	CB	THR	X	599	68.908	114.479	93.413	1.00	0.00		C
ATOM	6331	HB	THR	X	599	69.855	114.675	92.910	1.00	0.00		H
ATOM	6332	CG2	THR	X	599	67.888	114.079	92.336	1.00	0.00		C
ATOM	6333	HG21	THR	X	599	68.188	113.086	92.005	1.00	0.00		H
ATOM	6334	HG22	THR	X	599	66.828	114.066	92.590	1.00	0.00		H
ATOM	6335	HG23	THR	X	599	67.971	114.712	91.452	1.00	0.00		H
ATOM	6336	OG1	THR	X	599	68.329	115.680	93.951	1.00	0.00		O
ATOM	6337	HG1	THR	X	599	69.061	116.165	94.340	1.00	0.00		H
ATOM	6338	C	THR	X	599	70.013	113.999	95.602	1.00	0.00		C
ATOM	6339	O	THR	X	599	71.219	113.994	95.431	1.00	0.00		O
ATOM	6340	N	ASP	X	600	69.575	114.328	96.816	1.00	0.00		N
ATOM	6341	H	ASP	X	600	68.584	114.422	96.987	1.00	0.00		H
ATOM	6342	CA	ASP	X	600	70.442	114.816	97.960	1.00	0.00		C
ATOM	6343	HA	ASP	X	600	71.105	115.511	97.445	1.00	0.00		H
ATOM	6344	CB	ASP	X	600	69.530	115.450	98.978	1.00	0.00		C
ATOM	6345	HB2	ASP	X	600	68.728	114.815	99.355	1.00	0.00		H
ATOM	6346	HB3	ASP	X	600	70.145	115.660	99.853	1.00	0.00		H
ATOM	6347	CG	ASP	X	600	68.975	116.783	98.439	1.00	0.00		C
ATOM	6348	OD1	ASP	X	600	69.630	117.532	97.666	1.00	0.00		O
ATOM	6349	OD2	ASP	X	600	67.821	117.074	98.844	1.00	0.00		O
ATOM	6350	C	ASP	X	600	71.265	113.603	98.527	1.00	0.00		C
ATOM	6351	O	ASP	X	600	72.063	113.794	99.428	1.00	0.00		O
ATOM	6352	N	VAL	X	601	70.882	112.352	98.107	1.00	0.00		N
ATOM	6353	H	VAL	X	601	70.027	112.383	97.572	1.00	0.00		H
ATOM	6354	CA	VAL	X	601	71.489	111.048	98.476	1.00	0.00		C
ATOM	6355	HA	VAL	X	601	72.013	111.131	99.427	1.00	0.00		H
ATOM	6356	CB	VAL	X	601	70.354	110.074	98.707	1.00	0.00		C
ATOM	6357	HB	VAL	X	601	69.826	109.997	97.757	1.00	0.00		H
ATOM	6358	CG1	VAL	X	601	70.811	108.706	99.264	1.00	0.00		C
ATOM	6359	HG11	VAL	X	601	69.960	108.037	99.397	1.00	0.00		H
ATOM	6360	HG12	VAL	X	601	71.565	108.369	98.554	1.00	0.00		H
ATOM	6361	HG13	VAL	X	601	71.197	108.809	100.279	1.00	0.00		H
ATOM	6362	CG2	VAL	X	601	69.349	110.555	99.768	1.00	0.00		C
ATOM	6363	HG21	VAL	X	601	68.766	111.431	99.483	1.00	0.00		H
ATOM	6364	HG22	VAL	X	601	68.576	109.789	99.840	1.00	0.00		H
ATOM	6365	HG23	VAL	X	601	69.926	110.693	100.682	1.00	0.00		H
ATOM	6366	C	VAL	X	601	72.477	110.628	97.351	1.00	0.00		C
ATOM	6367	O	VAL	X	601	71.964	110.548	96.211	1.00	0.00		O
ATOM	6368	N	PRO	X	602	73.692	110.179	97.539	1.00	0.00		N
ATOM	6369	CD	PRO	X	602	74.422	110.261	98.758	1.00	0.00		C
ATOM	6370	HD2	PRO	X	602	73.833	109.801	99.552	1.00	0.00		H
ATOM	6371	HD3	PRO	X	602	74.772	111.286	98.884	1.00	0.00		H
ATOM	6372	CG	PRO	X	602	75.724	109.409	98.460	1.00	0.00		C
ATOM	6373	HG2	PRO	X	602	75.614	108.375	98.789	1.00	0.00		H
ATOM	6374	HG3	PRO	X	602	76.539	109.791	99.074	1.00	0.00		H
ATOM	6375	CB	PRO	X	602	75.932	109.627	96.981	1.00	0.00		C
ATOM	6376	HB2	PRO	X	602	76.661	108.925	96.576	1.00	0.00		H
ATOM	6377	HB3	PRO	X	602	76.246	110.667	96.904	1.00	0.00		H
ATOM	6378	CA	PRO	X	602	74.491	109.486	96.521	1.00	0.00		C
ATOM	6379	HA	PRO	X	602	74.408	109.941	95.534	1.00	0.00		H
ATOM	6380	C	PRO	X	602	73.980	107.996	96.417	1.00	0.00		C
ATOM	6381	O	PRO	X	602	73.685	107.428	97.447	1.00	0.00		O
ATOM	6382	N	THR	X	603	74.015	107.404	95.178	1.00	0.00		N
ATOM	6383	H	THR	X	603	74.103	108.043	94.400	1.00	0.00		H
ATOM	6384	CA	THR	X	603	73.650	105.967	94.898	1.00	0.00		C
ATOM	6385	HA	THR	X	603	72.570	105.940	95.043	1.00	0.00		H
ATOM	6386	CB	THR	X	603	73.867	105.498	93.482	1.00	0.00		C
ATOM	6387	HB	THR	X	603	74.759	105.974	93.076	1.00	0.00		H
ATOM	6388	CG2	THR	X	603	73.832	104.026	93.297	1.00	0.00		C
ATOM	6389	HG21	THR	X	603	74.018	103.673	92.283	1.00	0.00		H
ATOM	6390	HG22	THR	X	603	74.561	103.469	93.884	1.00	0.00		H
ATOM	6391	HG23	THR	X	603	72.773	103.784	93.389	1.00	0.00		H
ATOM	6392	OG1	THR	X	603	72.914	106.055	92.624	1.00	0.00		O
ATOM	6393	HG1	THR	X	603	72.954	107.009	92.517	1.00	0.00		H
ATOM	6394	C	THR	X	603	74.340	105.021	95.888	1.00	0.00		C

ATOM	6395	O	THR	X	603	73.663	104.219	96.558	1.00	0.00	O
ATOM	6396	N	ALA	X	604	75.631	105.108	96.140	1.00	0.00	N
ATOM	6397	H	ALA	X	604	76.114	105.851	95.655	1.00	0.00	H
ATOM	6398	CA	ALA	X	604	76.494	104.211	96.889	1.00	0.00	C
ATOM	6399	HA	ALA	X	604	76.474	103.273	96.333	1.00	0.00	H
ATOM	6400	CB	ALA	X	604	77.886	104.846	96.719	1.00	0.00	C
ATOM	6401	HB1	ALA	X	604	77.939	105.716	97.374	1.00	0.00	H
ATOM	6402	HB2	ALA	X	604	78.546	104.044	97.049	1.00	0.00	H
ATOM	6403	HB3	ALA	X	604	78.154	105.181	95.716	1.00	0.00	H
ATOM	6404	C	ALA	X	604	76.029	103.951	98.314	1.00	0.00	C
ATOM	6405	O	ALA	X	604	76.411	102.947	98.974	1.00	0.00	O
ATOM	6406	N	SER	X	605	75.116	104.784	98.891	1.00	0.00	N
ATOM	6407	H	SER	X	605	74.974	105.691	98.469	1.00	0.00	H
ATOM	6408	CA	SER	X	605	74.568	104.712	100.250	1.00	0.00	C
ATOM	6409	HA	SER	X	605	75.314	104.580	101.035	1.00	0.00	H
ATOM	6410	CB	SER	X	605	74.012	106.039	100.579	1.00	0.00	C
ATOM	6411	HB2	SER	X	605	73.625	106.137	101.594	1.00	0.00	H
ATOM	6412	HB3	SER	X	605	74.743	106.828	100.404	1.00	0.00	H
ATOM	6413	OG	SER	X	605	72.855	106.229	99.790	1.00	0.00	O
ATOM	6414	HG	SER	X	605	73.044	106.749	99.008	1.00	0.00	H
ATOM	6415	C	SER	X	605	73.512	103.613	100.429	1.00	0.00	C
ATOM	6416	O	SER	X	605	73.310	103.050	101.491	1.00	0.00	O
ATOM	6417	N	LEU	X	606	72.812	103.259	99.364	1.00	0.00	N
ATOM	6418	H	LEU	X	606	73.060	103.838	98.573	1.00	0.00	H
ATOM	6419	CA	LEU	X	606	71.882	102.127	99.257	1.00	0.00	C
ATOM	6420	HA	LEU	X	606	71.022	102.342	99.891	1.00	0.00	H
ATOM	6421	CB	LEU	X	606	71.430	102.059	97.793	1.00	0.00	C
ATOM	6422	HB2	LEU	X	606	72.189	102.201	97.023	1.00	0.00	H
ATOM	6423	HB3	LEU	X	606	71.064	101.067	97.526	1.00	0.00	H
ATOM	6424	CG	LEU	X	606	70.211	102.968	97.657	1.00	0.00	C
ATOM	6425	HG	LEU	X	606	69.352	102.652	98.252	1.00	0.00	H
ATOM	6426	CD1	LEU	X	606	70.478	104.455	97.796	1.00	0.00	C
ATOM	6427	HD11	LEU	X	606	69.532	104.893	97.480	1.00	0.00	H
ATOM	6428	HD12	LEU	X	606	70.671	104.686	98.843	1.00	0.00	H
ATOM	6429	HD13	LEU	X	606	71.273	104.735	97.104	1.00	0.00	H
ATOM	6430	CD2	LEU	X	606	69.648	102.708	96.284	1.00	0.00	C
ATOM	6431	HD21	LEU	X	606	68.677	103.172	96.121	1.00	0.00	H
ATOM	6432	HD22	LEU	X	606	70.397	103.022	95.557	1.00	0.00	H
ATOM	6433	HD23	LEU	X	606	69.541	101.636	96.114	1.00	0.00	H
ATOM	6434	C	LEU	X	606	72.583	100.806	99.633	1.00	0.00	C
ATOM	6435	O	LEU	X	606	71.781	100.079	100.147	1.00	0.00	O
ATOM	6436	N	ARG	X	607	73.859	100.559	99.473	1.00	0.00	N
ATOM	6437	H	ARG	X	607	74.392	101.217	98.925	1.00	0.00	H
ATOM	6438	CA	ARG	X	607	74.464	99.335	100.035	1.00	0.00	C
ATOM	6439	HA	ARG	X	607	73.942	98.410	99.788	1.00	0.00	H
ATOM	6440	CB	ARG	X	607	75.868	99.163	99.484	1.00	0.00	C
ATOM	6441	HB2	ARG	X	607	76.505	99.971	99.840	1.00	0.00	H
ATOM	6442	HB3	ARG	X	607	76.269	98.239	99.904	1.00	0.00	H
ATOM	6443	CG	ARG	X	607	75.946	99.035	98.001	1.00	0.00	C
ATOM	6444	HG2	ARG	X	607	75.024	98.599	97.618	1.00	0.00	H
ATOM	6445	HG3	ARG	X	607	76.067	100.044	97.608	1.00	0.00	H
ATOM	6446	CD	ARG	X	607	77.040	98.025	97.492	1.00	0.00	C
ATOM	6447	HD2	ARG	X	607	78.028	98.315	97.850	1.00	0.00	H
ATOM	6448	HD3	ARG	X	607	76.884	97.044	97.940	1.00	0.00	H
ATOM	6449	NE	ARG	X	607	77.057	97.820	96.027	1.00	0.00	N
ATOM	6450	HE	ARG	X	607	76.420	98.350	95.449	1.00	0.00	H
ATOM	6451	CZ	ARG	X	607	77.902	96.974	95.418	1.00	0.00	C
ATOM	6452	NH1	ARG	X	607	78.776	96.321	96.078	1.00	0.00	N
ATOM	6453	HH11	ARG	X	607	78.877	96.352	97.083	1.00	0.00	H
ATOM	6454	HH12	ARG	X	607	79.423	95.711	95.599	1.00	0.00	H
ATOM	6455	NH2	ARG	X	607	77.868	96.915	94.129	1.00	0.00	N
ATOM	6456	HH21	ARG	X	607	77.197	97.464	93.609	1.00	0.00	H
ATOM	6457	HH22	ARG	X	607	78.530	96.312	93.662	1.00	0.00	H
ATOM	6458	C	ARG	X	607	74.403	99.270	101.558	1.00	0.00	C
ATOM	6459	O	ARG	X	607	74.511	98.148	102.071	1.00	0.00	O
ATOM	6460	N	TYR	X	608	74.313	100.421	102.271	1.00	0.00	N
ATOM	6461	H	TYR	X	608	74.146	101.294	101.795	1.00	0.00	H
ATOM	6462	CA	TYR	X	608	74.242	100.397	103.702	1.00	0.00	C
ATOM	6463	HA	TYR	X	608	74.922	99.671	104.147	1.00	0.00	H
ATOM	6464	CB	TYR	X	608	74.348	101.790	104.335	1.00	0.00	C
ATOM	6465	HB2	TYR	X	608	73.505	102.425	104.065	1.00	0.00	H
ATOM	6466	HB3	TYR	X	608	74.279	101.676	105.416	1.00	0.00	H
ATOM	6467	CG	TYR	X	608	75.668	102.555	103.876	1.00	0.00	C
ATOM	6468	CD1	TYR	X	608	76.903	101.899	103.810	1.00	0.00	C
ATOM	6469	HD1	TYR	X	608	76.980	100.844	104.027	1.00	0.00	H
ATOM	6470	CE1	TYR	X	608	77.962	102.538	103.128	1.00	0.00	C
ATOM	6471	HE1	TYR	X	608	78.898	102.083	102.840	1.00	0.00	H
ATOM	6472	CZ	TYR	X	608	77.883	103.905	102.728	1.00	0.00	C
ATOM	6473	OH	TYR	X	608	78.805	104.502	101.993	1.00	0.00	O
ATOM	6474	HH	TYR	X	608	78.374	104.984	101.285	1.00	0.00	H
ATOM	6475	CE2	TYR	X	608	76.759	104.655	103.135	1.00	0.00	C
ATOM	6476	HE2	TYR	X	608	76.664	105.699	102.876	1.00	0.00	H

ATOM	6477	CD2	TYR	X	608	75.668	103.989	103.683	1.00	0.00	C
ATOM	6478	HD2	TYR	X	608	74.788	104.575	103.905	1.00	0.00	H
ATOM	6479	C	TYR	X	608	72.917	99.880	104.138	1.00	0.00	C
ATOM	6480	O	TYR	X	608	72.730	99.159	105.110	1.00	0.00	O
ATOM	6481	N	LEU	X	609	71.818	100.095	103.406	1.00	0.00	N
ATOM	6482	H	LEU	X	609	71.886	100.761	102.651	1.00	0.00	H
ATOM	6483	CA	LEU	X	609	70.540	99.397	103.651	1.00	0.00	C
ATOM	6484	HA	LEU	X	609	70.261	99.590	104.687	1.00	0.00	H
ATOM	6485	CB	LEU	X	609	69.477	100.201	102.757	1.00	0.00	C
ATOM	6486	HB2	LEU	X	609	69.414	101.254	103.031	1.00	0.00	H
ATOM	6487	HB3	LEU	X	609	69.835	100.228	101.728	1.00	0.00	H
ATOM	6488	CG	LEU	X	609	68.151	99.494	102.700	1.00	0.00	C
ATOM	6489	HG	LEU	X	609	68.096	98.618	102.054	1.00	0.00	H
ATOM	6490	CD1	LEU	X	609	67.350	99.395	103.940	1.00	0.00	C
ATOM	6491	HD11	LEU	X	609	67.893	98.778	104.655	1.00	0.00	H
ATOM	6492	HD12	LEU	X	609	67.291	100.390	104.381	1.00	0.00	H
ATOM	6493	HD13	LEU	X	609	66.373	98.921	103.832	1.00	0.00	H
ATOM	6494	CD2	LEU	X	609	67.323	100.362	101.718	1.00	0.00	C
ATOM	6495	HD21	LEU	X	609	66.291	100.033	101.600	1.00	0.00	H
ATOM	6496	HD22	LEU	X	609	67.398	101.390	102.072	1.00	0.00	H
ATOM	6497	HD23	LEU	X	609	67.864	100.405	100.773	1.00	0.00	H
ATOM	6498	C	LEU	X	609	70.510	97.884	103.446	1.00	0.00	C
ATOM	6499	O	LEU	X	609	69.762	97.228	104.248	1.00	0.00	O
ATOM	6500	N	PHE	X	610	71.206	97.388	102.420	1.00	0.00	N
ATOM	6501	H	PHE	X	610	71.700	98.003	101.789	1.00	0.00	H
ATOM	6502	CA	PHE	X	610	71.367	95.905	102.142	1.00	0.00	C
ATOM	6503	HA	PHE	X	610	70.404	95.504	102.458	1.00	0.00	H
ATOM	6504	CB	PHE	X	610	71.480	95.544	100.662	1.00	0.00	C
ATOM	6505	HB2	PHE	X	610	72.383	96.064	100.344	1.00	0.00	H
ATOM	6506	HB3	PHE	X	610	71.590	94.465	100.548	1.00	0.00	H
ATOM	6507	CG	PHE	X	610	70.312	96.022	99.866	1.00	0.00	C
ATOM	6508	CD1	PHE	X	610	69.321	95.184	99.348	1.00	0.00	C
ATOM	6509	HD1	PHE	X	610	69.429	94.130	99.560	1.00	0.00	H
ATOM	6510	CE1	PHE	X	610	68.232	95.612	98.605	1.00	0.00	C
ATOM	6511	HE1	PHE	X	610	67.487	94.870	98.358	1.00	0.00	H
ATOM	6512	CZ	PHE	X	610	68.160	96.949	98.243	1.00	0.00	C
ATOM	6513	HZ	PHE	X	610	67.292	97.143	97.633	1.00	0.00	H
ATOM	6514	CE2	PHE	X	610	69.199	97.774	98.596	1.00	0.00	C
ATOM	6515	HE2	PHE	X	610	69.169	98.770	98.177	1.00	0.00	H
ATOM	6516	CD2	PHE	X	610	70.157	97.368	99.588	1.00	0.00	C
ATOM	6517	HD2	PHE	X	610	70.867	98.141	99.843	1.00	0.00	H
ATOM	6518	C	PHE	X	610	72.503	95.137	102.907	1.00	0.00	C
ATOM	6519	O	PHE	X	610	72.524	93.877	102.832	1.00	0.00	O
ATOM	6520	N	ASN	X	611	73.316	95.852	103.684	1.00	0.00	N
ATOM	6521	H	ASN	X	611	73.090	96.814	103.893	1.00	0.00	H
ATOM	6522	CA	ASN	X	611	74.517	95.345	104.380	1.00	0.00	C
ATOM	6523	HA	ASN	X	611	75.098	96.222	104.660	1.00	0.00	H
ATOM	6524	CB	ASN	X	611	74.040	94.726	105.704	1.00	0.00	C
ATOM	6525	HB2	ASN	X	611	73.238	95.347	106.105	1.00	0.00	H
ATOM	6526	HB3	ASN	X	611	73.595	93.740	105.563	1.00	0.00	H
ATOM	6527	CG	ASN	X	611	75.152	94.703	106.780	1.00	0.00	C
ATOM	6528	OD1	ASN	X	611	75.837	95.619	107.085	1.00	0.00	O
ATOM	6529	ND2	ASN	X	611	75.360	93.581	107.437	1.00	0.00	N
ATOM	6530	HD21	ASN	X	611	75.879	93.668	108.300	1.00	0.00	H
ATOM	6531	HD22	ASN	X	611	74.773	92.768	107.327	1.00	0.00	H
ATOM	6532	C	ASN	X	611	75.619	94.556	103.595	1.00	0.00	C
ATOM	6533	O	ASN	X	611	76.365	93.786	104.226	1.00	0.00	O
ATOM	6534	N	CYS	X	612	75.678	94.827	102.275	1.00	0.00	N
ATOM	6535	H	CYS	X	612	75.218	95.631	101.873	1.00	0.00	H
ATOM	6536	CA	CYS	X	612	76.799	94.222	101.490	1.00	0.00	C
ATOM	6537	HA	CYS	X	612	77.004	93.217	101.860	1.00	0.00	H
ATOM	6538	CB	CYS	X	612	76.412	94.181	99.991	1.00	0.00	C
ATOM	6539	HB2	CYS	X	612	76.030	95.127	99.609	1.00	0.00	H
ATOM	6540	HB3	CYS	X	612	77.348	93.937	99.489	1.00	0.00	H
ATOM	6541	SG	CYS	X	612	75.212	92.835	99.923	1.00	0.00	S
ATOM	6542	HG	CYS	X	612	74.309	93.398	100.730	1.00	0.00	H
ATOM	6543	C	CYS	X	612	78.137	94.925	101.805	1.00	0.00	C
ATOM	6544	O	CYS	X	612	78.138	96.143	101.984	1.00	0.00	O
ATOM	6545	N	ARG	X	613	79.238	94.106	101.770	1.00	0.00	N
ATOM	6546	H	ARG	X	613	79.121	93.121	101.577	1.00	0.00	H
ATOM	6547	CA	ARG	X	613	80.522	94.621	102.162	1.00	0.00	C
ATOM	6548	HA	ARG	X	613	80.563	95.706	102.072	1.00	0.00	H
ATOM	6549	CB	ARG	X	613	80.710	94.254	103.622	1.00	0.00	C
ATOM	6550	HB2	ARG	X	613	80.736	93.182	103.821	1.00	0.00	H
ATOM	6551	HB3	ARG	X	613	81.678	94.685	103.877	1.00	0.00	H
ATOM	6552	CG	ARG	X	613	79.783	94.885	104.559	1.00	0.00	C
ATOM	6553	HG2	ARG	X	613	79.888	95.953	104.367	1.00	0.00	H
ATOM	6554	HG3	ARG	X	613	78.753	94.621	104.318	1.00	0.00	H
ATOM	6555	CD	ARG	X	613	80.001	94.439	106.005	1.00	0.00	C
ATOM	6556	HD2	ARG	X	613	79.741	93.381	106.052	1.00	0.00	H
ATOM	6557	HD3	ARG	X	613	81.048	94.670	106.190	1.00	0.00	H
ATOM	6558	NE	ARG	X	613	79.100	95.180	106.861	1.00	0.00	N

ATOM	6559	HE	ARG	X	613	78.420	94.653	107.390	1.00	0.00	H
ATOM	6560	CZ	ARG	X	613	79.214	96.444	107.207	1.00	0.00	C
ATOM	6561	NH1	ARG	X	613	78.401	96.907	108.042	1.00	0.00	N
ATOM	6562	HH11	ARG	X	613	77.798	96.213	108.458	1.00	0.00	H
ATOM	6563	HH12	ARG	X	613	78.446	97.852	108.397	1.00	0.00	H
ATOM	6564	NH2	ARG	X	613	80.115	97.259	106.761	1.00	0.00	N
ATOM	6565	HH21	ARG	X	613	80.964	96.920	106.332	1.00	0.00	H
ATOM	6566	HH22	ARG	X	613	80.037	98.198	107.127	1.00	0.00	H
ATOM	6567	C	ARG	X	613	81.686	94.251	101.317	1.00	0.00	C
ATOM	6568	O	ARG	X	613	82.826	94.176	101.761	1.00	0.00	O
ATOM	6569	N	ARG	X	614	81.488	93.989	100.014	1.00	0.00	N
ATOM	6570	H	ARG	X	614	80.590	94.218	99.610	1.00	0.00	H
ATOM	6571	CA	ARG	X	614	82.547	93.566	99.062	1.00	0.00	C
ATOM	6572	HA	ARG	X	614	83.210	92.921	99.640	1.00	0.00	H
ATOM	6573	CB	ARG	X	614	81.961	92.708	97.888	1.00	0.00	C
ATOM	6574	HB2	ARG	X	614	81.780	91.714	98.299	1.00	0.00	H
ATOM	6575	HB3	ARG	X	614	80.952	93.025	97.626	1.00	0.00	H
ATOM	6576	CG	ARG	X	614	82.836	92.600	96.641	1.00	0.00	C
ATOM	6577	HG2	ARG	X	614	83.335	93.517	96.331	1.00	0.00	H
ATOM	6578	HG3	ARG	X	614	83.762	92.078	96.880	1.00	0.00	H
ATOM	6579	CD	ARG	X	614	82.098	92.015	95.423	1.00	0.00	C
ATOM	6580	HD2	ARG	X	614	81.297	92.715	95.188	1.00	0.00	H
ATOM	6581	HD3	ARG	X	614	82.764	91.957	94.562	1.00	0.00	H
ATOM	6582	NE	ARG	X	614	81.497	90.650	95.680	1.00	0.00	N
ATOM	6583	HE	ARG	X	614	81.142	90.467	96.609	1.00	0.00	H
ATOM	6584	CZ	ARG	X	614	81.392	89.726	94.778	1.00	0.00	C
ATOM	6585	NH1	ARG	X	614	80.635	88.647	95.005	1.00	0.00	N
ATOM	6586	HH11	ARG	X	614	80.439	88.488	95.982	1.00	0.00	H
ATOM	6587	HH12	ARG	X	614	80.600	87.932	94.292	1.00	0.00	H
ATOM	6588	NH2	ARG	X	614	81.919	89.814	93.556	1.00	0.00	N
ATOM	6589	HH21	ARG	X	614	82.250	90.719	93.253	1.00	0.00	H
ATOM	6590	HH22	ARG	X	614	81.904	88.995	92.966	1.00	0.00	H
ATOM	6591	C	ARG	X	614	83.316	94.761	98.543	1.00	0.00	C
ATOM	6592	O	ARG	X	614	82.545	95.658	98.174	1.00	0.00	O
ATOM	6593	N	PRO	X	615	84.634	94.752	98.532	1.00	0.00	N
ATOM	6594	CD	PRO	X	615	85.548	93.988	99.391	1.00	0.00	C
ATOM	6595	HD2	PRO	X	615	86.151	93.226	98.895	1.00	0.00	H
ATOM	6596	HD3	PRO	X	615	85.113	93.513	100.270	1.00	0.00	H
ATOM	6597	CG	PRO	X	615	86.577	95.032	99.795	1.00	0.00	C
ATOM	6598	HG2	PRO	X	615	87.464	94.541	100.196	1.00	0.00	H
ATOM	6599	HG3	PRO	X	615	86.155	95.685	100.558	1.00	0.00	H
ATOM	6600	CB	PRO	X	615	86.823	95.720	98.438	1.00	0.00	C
ATOM	6601	HB2	PRO	X	615	87.491	95.021	97.934	1.00	0.00	H
ATOM	6602	HB3	PRO	X	615	87.301	96.685	98.607	1.00	0.00	H
ATOM	6603	CA	PRO	X	615	85.416	95.867	97.899	1.00	0.00	C
ATOM	6604	HA	PRO	X	615	85.033	96.819	98.264	1.00	0.00	H
ATOM	6605	C	PRO	X	615	85.418	96.003	96.434	1.00	0.00	C
ATOM	6606	O	PRO	X	615	84.980	95.034	95.673	1.00	0.00	O
ATOM	6607	N	GLY	X	616	85.801	97.145	95.980	1.00	0.00	N
ATOM	6608	H	GLY	X	616	85.996	97.765	96.754	1.00	0.00	H
ATOM	6609	CA	GLY	X	616	86.149	97.662	94.623	1.00	0.00	C
ATOM	6610	HA2	GLY	X	616	86.258	98.744	94.701	1.00	0.00	H
ATOM	6611	HA3	GLY	X	616	87.034	97.174	94.215	1.00	0.00	H
ATOM	6612	C	GLY	X	616	84.913	97.448	93.634	1.00	0.00	C
ATOM	6613	O	GLY	X	616	85.122	97.132	92.432	1.00	0.00	O
ATOM	6614	N	SER	X	617	83.677	97.694	94.077	1.00	0.00	N
ATOM	6615	H	SER	X	617	83.508	97.951	95.039	1.00	0.00	H
ATOM	6616	CA	SER	X	617	82.395	97.269	93.508	1.00	0.00	C
ATOM	6617	HA	SER	X	617	82.578	96.945	92.482	1.00	0.00	H
ATOM	6618	CB	SER	X	617	82.046	96.033	94.381	1.00	0.00	C
ATOM	6619	HB2	SER	X	617	82.792	95.252	94.237	1.00	0.00	H
ATOM	6620	HB3	SER	X	617	82.042	96.409	95.404	1.00	0.00	H
ATOM	6621	OG	SER	X	617	80.755	95.533	94.027	1.00	0.00	O
ATOM	6622	HG	SER	X	617	80.777	94.820	93.385	1.00	0.00	H
ATOM	6623	C	SER	X	617	81.274	98.365	93.521	1.00	0.00	C
ATOM	6624	O	SER	X	617	80.410	98.299	92.633	1.00	0.00	O
ATOM	6625	N	SER	X	618	81.181	99.127	94.624	1.00	0.00	N
ATOM	6626	H	SER	X	618	81.914	99.005	95.308	1.00	0.00	H
ATOM	6627	CA	SER	X	618	80.256	100.164	94.721	1.00	0.00	C
ATOM	6628	HA	SER	X	618	79.350	99.787	94.247	1.00	0.00	H
ATOM	6629	CB	SER	X	618	79.820	100.345	96.259	1.00	0.00	C
ATOM	6630	HB2	SER	X	618	79.565	99.387	96.711	1.00	0.00	H
ATOM	6631	HB3	SER	X	618	80.596	100.828	96.854	1.00	0.00	H
ATOM	6632	OG	SER	X	618	78.675	101.138	96.319	1.00	0.00	O
ATOM	6633	HG	SER	X	618	78.649	101.417	97.237	1.00	0.00	H
ATOM	6634	C	SER	X	618	80.812	101.510	94.159	1.00	0.00	C
ATOM	6635	O	SER	X	618	81.584	102.204	94.819	1.00	0.00	O
ATOM	6636	N	PRO	X	619	80.439	101.886	92.953	1.00	0.00	N
ATOM	6637	CD	PRO	X	619	79.571	101.223	91.965	1.00	0.00	C
ATOM	6638	HD2	PRO	X	619	78.685	100.810	92.448	1.00	0.00	H
ATOM	6639	HD3	PRO	X	619	80.116	100.450	91.424	1.00	0.00	H
ATOM	6640	CG	PRO	X	619	79.167	102.343	91.053	1.00	0.00	C

ATOM	6641	HG2	PRO	X	619	78.309	102.861	91.479	1.00	0.00	H
ATOM	6642	HG3	PRO	X	619	79.010	101.962	90.044	1.00	0.00	H
ATOM	6643	CB	PRO	X	619	80.377	103.321	91.000	1.00	0.00	C
ATOM	6644	HB2	PRO	X	619	80.133	104.354	90.758	1.00	0.00	H
ATOM	6645	HB3	PRO	X	619	81.114	103.006	90.261	1.00	0.00	H
ATOM	6646	CA	PRO	X	619	81.011	103.116	92.355	1.00	0.00	C
ATOM	6647	HA	PRO	X	619	82.083	103.066	92.168	1.00	0.00	H
ATOM	6648	C	PRO	X	619	80.786	104.441	93.130	1.00	0.00	C
ATOM	6649	O	PRO	X	619	79.726	104.586	93.767	1.00	0.00	O
ATOM	6650	N	LEU	X	620	81.660	105.377	92.979	1.00	0.00	N
ATOM	6651	H	LEU	X	620	82.460	105.094	92.431	1.00	0.00	H
ATOM	6652	CA	LEU	X	620	81.505	106.763	93.522	1.00	0.00	C
ATOM	6653	HA	LEU	X	620	81.215	106.639	94.566	1.00	0.00	H
ATOM	6654	CB	LEU	X	620	82.900	107.503	93.434	1.00	0.00	C
ATOM	6655	HB2	LEU	X	620	83.623	106.975	94.055	1.00	0.00	H
ATOM	6656	HB3	LEU	X	620	83.257	107.519	92.405	1.00	0.00	H
ATOM	6657	CG	LEU	X	620	82.720	108.952	93.951	1.00	0.00	C
ATOM	6658	HG	LEU	X	620	81.857	109.417	93.475	1.00	0.00	H
ATOM	6659	CD1	LEU	X	620	82.480	108.969	95.447	1.00	0.00	C
ATOM	6660	HD11	LEU	X	620	82.165	109.998	95.615	1.00	0.00	H
ATOM	6661	HD12	LEU	X	620	81.793	108.263	95.913	1.00	0.00	H
ATOM	6662	HD13	LEU	X	620	83.460	108.797	95.895	1.00	0.00	H
ATOM	6663	CD2	LEU	X	620	83.805	109.976	93.619	1.00	0.00	C
ATOM	6664	HD21	LEU	X	620	84.719	109.663	94.125	1.00	0.00	H
ATOM	6665	HD22	LEU	X	620	84.079	109.888	92.568	1.00	0.00	H
ATOM	6666	HD23	LEU	X	620	83.491	111.004	93.795	1.00	0.00	H
ATOM	6667	C	LEU	X	620	80.335	107.387	92.738	1.00	0.00	C
ATOM	6668	O	LEU	X	620	79.426	107.950	93.408	1.00	0.00	O
ATOM	6669	N	SER	X	621	80.270	107.423	91.384	1.00	0.00	N
ATOM	6670	H	SER	X	621	81.119	107.096	90.944	1.00	0.00	H
ATOM	6671	CA	SER	X	621	79.426	108.286	90.512	1.00	0.00	C
ATOM	6672	HA	SER	X	621	78.489	108.471	91.038	1.00	0.00	H
ATOM	6673	CB	SER	X	621	80.108	109.573	90.331	1.00	0.00	C
ATOM	6674	HB2	SER	X	621	79.458	110.277	89.812	1.00	0.00	H
ATOM	6675	HB3	SER	X	621	80.406	110.069	91.256	1.00	0.00	H
ATOM	6676	OG	SER	X	621	81.221	109.376	89.501	1.00	0.00	O
ATOM	6677	HG	SER	X	621	81.779	110.158	89.517	1.00	0.00	H
ATOM	6678	C	SER	X	621	79.127	107.606	89.131	1.00	0.00	C
ATOM	6679	O	SER	X	621	78.106	107.917	88.608	1.00	0.00	O
ATOM	6680	N	ARG	X	622	79.913	106.621	88.569	1.00	0.00	N
ATOM	6681	H	ARG	X	622	80.658	106.267	89.151	1.00	0.00	H
ATOM	6682	CA	ARG	X	622	79.545	105.970	87.380	1.00	0.00	C
ATOM	6683	HA	ARG	X	622	79.054	106.684	86.719	1.00	0.00	H
ATOM	6684	CB	ARG	X	622	80.841	105.464	86.700	1.00	0.00	C
ATOM	6685	HB2	ARG	X	622	81.287	104.621	87.230	1.00	0.00	H
ATOM	6686	HB3	ARG	X	622	80.562	105.030	85.741	1.00	0.00	H
ATOM	6687	CG	ARG	X	622	81.918	106.499	86.444	1.00	0.00	C
ATOM	6688	HG2	ARG	X	622	82.454	106.724	87.366	1.00	0.00	H
ATOM	6689	HG3	ARG	X	622	82.520	106.098	85.629	1.00	0.00	H
ATOM	6690	CD	ARG	X	622	81.384	107.840	85.918	1.00	0.00	C
ATOM	6691	HD2	ARG	X	622	80.779	107.601	85.043	1.00	0.00	H
ATOM	6692	HD3	ARG	X	622	80.809	108.436	86.627	1.00	0.00	H
ATOM	6693	NE	ARG	X	622	82.430	108.673	85.456	1.00	0.00	N
ATOM	6694	HE	ARG	X	622	83.357	108.292	85.587	1.00	0.00	H
ATOM	6695	CZ	ARG	X	622	82.430	109.918	84.887	1.00	0.00	C
ATOM	6696	NH1	ARG	X	622	83.555	110.503	84.638	1.00	0.00	N
ATOM	6697	HH11	ARG	X	622	84.385	110.248	85.153	1.00	0.00	H
ATOM	6698	HH12	ARG	X	622	83.575	111.327	84.055	1.00	0.00	H
ATOM	6699	NH2	ARG	X	622	81.336	110.488	84.643	1.00	0.00	N
ATOM	6700	HH21	ARG	X	622	80.512	110.011	84.978	1.00	0.00	H
ATOM	6701	HH22	ARG	X	622	81.360	111.497	84.632	1.00	0.00	H
ATOM	6702	C	ARG	X	622	78.528	104.859	87.704	1.00	0.00	C
ATOM	6703	O	ARG	X	622	78.297	104.500	88.852	1.00	0.00	O
ATOM	6704	N	LEU	X	623	77.875	104.319	86.686	1.00	0.00	N
ATOM	6705	H	LEU	X	623	78.117	104.612	85.752	1.00	0.00	H
ATOM	6706	CA	LEU	X	623	77.043	103.155	86.827	1.00	0.00	C
ATOM	6707	HA	LEU	X	623	76.384	103.332	87.676	1.00	0.00	H
ATOM	6708	CB	LEU	X	623	76.113	103.132	85.552	1.00	0.00	C
ATOM	6709	HB2	LEU	X	623	75.487	104.022	85.581	1.00	0.00	H
ATOM	6710	HB3	LEU	X	623	76.687	103.226	84.631	1.00	0.00	H
ATOM	6711	CG	LEU	X	623	75.127	101.929	85.432	1.00	0.00	C
ATOM	6712	HG	LEU	X	623	75.421	100.979	85.878	1.00	0.00	H
ATOM	6713	CD1	LEU	X	623	73.810	102.289	86.037	1.00	0.00	C
ATOM	6714	HD11	LEU	X	623	73.005	101.558	85.957	1.00	0.00	H
ATOM	6715	HD12	LEU	X	623	73.899	102.265	87.124	1.00	0.00	H
ATOM	6716	HD13	LEU	X	623	73.412	103.234	85.669	1.00	0.00	H
ATOM	6717	CD2	LEU	X	623	74.720	101.764	83.949	1.00	0.00	C
ATOM	6718	HD21	LEU	X	623	74.108	100.885	83.742	1.00	0.00	H
ATOM	6719	HD22	LEU	X	623	74.143	102.647	83.671	1.00	0.00	H
ATOM	6720	HD23	LEU	X	623	75.647	101.706	83.378	1.00	0.00	H
ATOM	6721	C	LEU	X	623	77.892	101.830	86.912	1.00	0.00	C
ATOM	6722	O	LEU	X	623	77.598	100.939	87.731	1.00	0.00	O

ATOM	6723	N	LEU	X	624	78.915	101.682	86.104	1.00	0.00	N
ATOM	6724	H	LEU	X	624	79.045	102.344	85.352	1.00	0.00	H
ATOM	6725	CA	LEU	X	624	79.869	100.555	86.176	1.00	0.00	C
ATOM	6726	HA	LEU	X	624	79.265	99.654	86.284	1.00	0.00	H
ATOM	6727	CB	LEU	X	624	80.630	100.539	84.841	1.00	0.00	C
ATOM	6728	HB2	LEU	X	624	81.211	101.461	84.817	1.00	0.00	H
ATOM	6729	HB3	LEU	X	624	81.297	99.681	84.929	1.00	0.00	H
ATOM	6730	CG	LEU	X	624	79.711	100.484	83.632	1.00	0.00	C
ATOM	6731	HG	LEU	X	624	78.974	101.282	83.552	1.00	0.00	H
ATOM	6732	CD1	LEU	X	624	80.620	100.417	82.368	1.00	0.00	C
ATOM	6733	HD11	LEU	X	624	80.964	99.396	82.209	1.00	0.00	H
ATOM	6734	HD12	LEU	X	624	79.993	100.745	81.539	1.00	0.00	H
ATOM	6735	HD13	LEU	X	624	81.378	101.196	82.460	1.00	0.00	H
ATOM	6736	CD2	LEU	X	624	78.874	99.250	83.535	1.00	0.00	C
ATOM	6737	HD21	LEU	X	624	79.492	98.357	83.636	1.00	0.00	H
ATOM	6738	HD22	LEU	X	624	78.219	99.222	84.406	1.00	0.00	H
ATOM	6739	HD23	LEU	X	624	78.216	99.181	82.668	1.00	0.00	H
ATOM	6740	C	LEU	X	624	80.822	100.575	87.441	1.00	0.00	C
ATOM	6741	O	LEU	X	624	81.174	101.681	87.923	1.00	0.00	O
ATOM	6742	N	PRO	X	625	81.283	99.462	87.955	1.00	0.00	N
ATOM	6743	CD	PRO	X	625	80.959	98.144	87.477	1.00	0.00	C
ATOM	6744	HD2	PRO	X	625	81.197	97.915	86.439	1.00	0.00	H
ATOM	6745	HD3	PRO	X	625	79.887	97.984	87.588	1.00	0.00	H
ATOM	6746	CG	PRO	X	625	81.747	97.174	88.335	1.00	0.00	C
ATOM	6747	HG2	PRO	X	625	82.659	96.933	87.788	1.00	0.00	H
ATOM	6748	HG3	PRO	X	625	81.299	96.206	88.564	1.00	0.00	H
ATOM	6749	CB	PRO	X	625	82.158	97.955	89.564	1.00	0.00	C
ATOM	6750	HB2	PRO	X	625	83.092	97.527	89.927	1.00	0.00	H
ATOM	6751	HB3	PRO	X	625	81.307	97.838	90.234	1.00	0.00	H
ATOM	6752	CA	PRO	X	625	82.242	99.350	89.048	1.00	0.00	C
ATOM	6753	HA	PRO	X	625	81.845	99.990	89.837	1.00	0.00	H
ATOM	6754	C	PRO	X	625	83.656	99.825	88.715	1.00	0.00	C
ATOM	6755	O	PRO	X	625	84.438	99.043	88.162	1.00	0.00	O
ATOM	6756	N	ARG	X	626	83.935	101.093	88.982	1.00	0.00	N
ATOM	6757	H	ARG	X	626	83.221	101.543	89.538	1.00	0.00	H
ATOM	6758	CA	ARG	X	626	85.258	101.832	88.771	1.00	0.00	C
ATOM	6759	HA	ARG	X	626	85.970	101.052	89.033	1.00	0.00	H
ATOM	6760	CB	ARG	X	626	85.475	102.255	87.334	1.00	0.00	C
ATOM	6761	HB2	ARG	X	626	86.457	102.723	87.249	1.00	0.00	H
ATOM	6762	HB3	ARG	X	626	85.506	101.283	86.843	1.00	0.00	H
ATOM	6763	CG	ARG	X	626	84.442	103.236	86.712	1.00	0.00	C
ATOM	6764	HG2	ARG	X	626	83.437	102.819	86.787	1.00	0.00	H
ATOM	6765	HG3	ARG	X	626	84.408	104.174	87.265	1.00	0.00	H
ATOM	6766	CD	ARG	X	626	84.620	103.674	85.236	1.00	0.00	C
ATOM	6767	HD2	ARG	X	626	83.813	104.347	84.945	1.00	0.00	H
ATOM	6768	HD3	ARG	X	626	85.599	104.132	85.098	1.00	0.00	H
ATOM	6769	NE	ARG	X	626	84.570	102.454	84.357	1.00	0.00	N
ATOM	6770	HE	ARG	X	626	84.569	101.532	84.769	1.00	0.00	H
ATOM	6771	CZ	ARG	X	626	84.475	102.409	83.048	1.00	0.00	C
ATOM	6772	NH1	ARG	X	626	84.383	101.199	82.535	1.00	0.00	N
ATOM	6773	HH11	ARG	X	626	84.416	100.414	83.168	1.00	0.00	H
ATOM	6774	HH12	ARG	X	626	84.224	101.081	81.545	1.00	0.00	H
ATOM	6775	NH2	ARG	X	626	84.615	103.524	82.386	1.00	0.00	N
ATOM	6776	HH21	ARG	X	626	84.682	104.409	82.869	1.00	0.00	H
ATOM	6777	HH22	ARG	X	626	84.586	103.459	81.380	1.00	0.00	H
ATOM	6778	C	ARG	X	626	85.327	102.988	89.747	1.00	0.00	C
ATOM	6779	O	ARG	X	626	84.274	103.537	89.885	1.00	0.00	O
ATOM	6780	N	LEU	X	627	86.578	103.270	90.267	1.00	0.00	N
ATOM	6781	H	LEU	X	627	87.387	102.759	89.943	1.00	0.00	H
ATOM	6782	CA	LEU	X	627	86.886	104.369	91.240	1.00	0.00	C
ATOM	6783	HA	LEU	X	627	87.934	104.235	91.506	1.00	0.00	H
ATOM	6784	CB	LEU	X	627	86.775	105.716	90.430	1.00	0.00	C
ATOM	6785	HB2	LEU	X	627	85.765	105.792	90.031	1.00	0.00	H
ATOM	6786	HB3	LEU	X	627	86.873	106.633	91.010	1.00	0.00	H
ATOM	6787	CG	LEU	X	627	87.824	105.928	89.295	1.00	0.00	C
ATOM	6788	HG	LEU	X	627	87.685	105.216	88.482	1.00	0.00	H
ATOM	6789	CD1	LEU	X	627	87.643	107.311	88.793	1.00	0.00	C
ATOM	6790	HD11	LEU	X	627	88.441	107.654	88.133	1.00	0.00	H
ATOM	6791	HD12	LEU	X	627	86.619	107.445	88.446	1.00	0.00	H
ATOM	6792	HD13	LEU	X	627	87.760	108.068	89.567	1.00	0.00	H
ATOM	6793	CD2	LEU	X	627	89.228	105.868	89.821	1.00	0.00	C
ATOM	6794	HD21	LEU	X	627	89.368	106.323	90.801	1.00	0.00	H
ATOM	6795	HD22	LEU	X	627	89.705	104.895	89.929	1.00	0.00	H
ATOM	6796	HD23	LEU	X	627	89.830	106.471	89.142	1.00	0.00	H
ATOM	6797	C	LEU	X	627	85.950	104.189	92.432	1.00	0.00	C
ATOM	6798	O	LEU	X	627	85.504	105.210	92.934	1.00	0.00	O
ATOM	6799	N	CYS	X	628	85.570	102.962	92.720	1.00	0.00	N
ATOM	6800	H	CYS	X	628	86.057	102.205	92.261	1.00	0.00	H
ATOM	6801	CA	CYS	X	628	84.557	102.552	93.693	1.00	0.00	C
ATOM	6802	HA	CYS	X	628	83.635	103.064	93.418	1.00	0.00	H
ATOM	6803	CB	CYS	X	628	84.365	101.055	93.724	1.00	0.00	C
ATOM	6804	HB2	CYS	X	628	85.211	100.458	94.060	1.00	0.00	H

ATOM	6805	HB3	CYS	X	628	83.607	101.008	94.506	1.00	0.00	H
ATOM	6806	SG	CYS	X	628	83.727	100.420	92.151	1.00	0.00	S
ATOM	6807	HG	CYS	X	628	84.897	100.458	91.508	1.00	0.00	H
ATOM	6808	C	CYS	X	628	84.872	103.060	95.091	1.00	0.00	C
ATOM	6809	O	CYS	X	628	86.024	103.342	95.420	1.00	0.00	O
ATOM	6810	N	VAL	X	629	83.917	103.348	95.940	1.00	0.00	N
ATOM	6811	H	VAL	X	629	82.956	103.213	95.661	1.00	0.00	H
ATOM	6812	CA	VAL	X	629	84.166	103.739	97.409	1.00	0.00	C
ATOM	6813	HA	VAL	X	629	84.911	104.531	97.347	1.00	0.00	H
ATOM	6814	CB	VAL	X	629	82.972	104.519	97.931	1.00	0.00	C
ATOM	6815	HB	VAL	X	629	83.110	104.863	98.955	1.00	0.00	H
ATOM	6816	CG1	VAL	X	629	82.567	105.729	97.089	1.00	0.00	C
ATOM	6817	HG11	VAL	X	629	83.432	106.303	96.758	1.00	0.00	H
ATOM	6818	HG12	VAL	X	629	81.914	105.439	96.266	1.00	0.00	H
ATOM	6819	HG13	VAL	X	629	81.972	106.388	97.720	1.00	0.00	H
ATOM	6820	CG2	VAL	X	629	81.706	103.598	97.989	1.00	0.00	C
ATOM	6821	HG21	VAL	X	629	81.901	102.726	98.614	1.00	0.00	H
ATOM	6822	HG22	VAL	X	629	80.778	104.079	98.296	1.00	0.00	H
ATOM	6823	HG23	VAL	X	629	81.455	103.202	97.005	1.00	0.00	H
ATOM	6824	C	VAL	X	629	84.645	102.623	98.330	1.00	0.00	C
ATOM	6825	O	VAL	X	629	84.583	101.446	97.848	1.00	0.00	O
ATOM	6826	N	GLN	X	630	84.956	102.961	99.615	1.00	0.00	N
ATOM	6827	H	GLN	X	630	85.114	103.930	99.861	1.00	0.00	H
ATOM	6828	CA	GLN	X	630	85.475	101.902	100.512	1.00	0.00	C
ATOM	6829	HA	GLN	X	630	86.278	101.439	99.936	1.00	0.00	H
ATOM	6830	CB	GLN	X	630	86.071	102.477	101.820	1.00	0.00	C
ATOM	6831	HB2	GLN	X	630	86.630	101.748	102.405	1.00	0.00	H
ATOM	6832	HB3	GLN	X	630	86.773	103.262	101.541	1.00	0.00	H
ATOM	6833	CG	GLN	X	630	85.106	103.056	102.868	1.00	0.00	C
ATOM	6834	HG2	GLN	X	630	84.504	102.278	103.336	1.00	0.00	H
ATOM	6835	HG3	GLN	X	630	85.649	103.371	103.758	1.00	0.00	H
ATOM	6836	CD	GLN	X	630	84.336	104.272	102.449	1.00	0.00	C
ATOM	6837	OE1	GLN	X	630	84.936	105.165	101.820	1.00	0.00	O
ATOM	6838	NE2	GLN	X	630	83.021	104.301	102.595	1.00	0.00	N
ATOM	6839	HE21	GLN	X	630	82.395	104.884	102.059	1.00	0.00	H
ATOM	6840	HE22	GLN	X	630	82.595	103.646	103.235	1.00	0.00	H
ATOM	6841	C	GLN	X	630	84.415	100.792	100.834	1.00	0.00	C
ATOM	6842	O	GLN	X	630	83.168	100.834	100.642	1.00	0.00	O
ATOM	6843	N	GLY	X	631	84.894	99.705	101.413	1.00	0.00	N
ATOM	6844	H	GLY	X	631	85.895	99.575	101.370	1.00	0.00	H
ATOM	6845	CA	GLY	X	631	84.113	98.520	101.842	1.00	0.00	C
ATOM	6846	HA2	GLY	X	631	83.489	98.227	100.996	1.00	0.00	H
ATOM	6847	HA3	GLY	X	631	84.715	97.638	102.054	1.00	0.00	H
ATOM	6848	C	GLY	X	631	83.155	98.791	103.073	1.00	0.00	C
ATOM	6849	O	GLY	X	631	82.684	97.725	103.596	1.00	0.00	O
ATOM	6850	N	SER	X	632	82.869	99.972	103.571	1.00	0.00	N
ATOM	6851	H	SER	X	632	83.216	100.788	103.087	1.00	0.00	H
ATOM	6852	CA	SER	X	632	82.203	100.180	104.885	1.00	0.00	C
ATOM	6853	HA	SER	X	632	81.476	99.377	105.006	1.00	0.00	H
ATOM	6854	CB	SER	X	632	83.187	100.187	106.124	1.00	0.00	C
ATOM	6855	HB2	SER	X	632	82.717	100.563	107.033	1.00	0.00	H
ATOM	6856	HB3	SER	X	632	83.666	99.225	106.303	1.00	0.00	H
ATOM	6857	OG	SER	X	632	84.323	101.043	105.896	1.00	0.00	O
ATOM	6858	HG	SER	X	632	84.946	100.450	105.470	1.00	0.00	H
ATOM	6859	C	SER	X	632	81.384	101.473	104.821	1.00	0.00	C
ATOM	6860	O	SER	X	632	81.512	102.253	103.914	1.00	0.00	O
ATOM	6861	N	GLU	X	633	80.493	101.644	105.826	1.00	0.00	N
ATOM	6862	H	GLU	X	633	80.448	100.881	106.486	1.00	0.00	H
ATOM	6863	CA	GLU	X	633	79.658	102.805	106.063	1.00	0.00	C
ATOM	6864	HA	GLU	X	633	78.964	102.888	105.226	1.00	0.00	H
ATOM	6865	CB	GLU	X	633	78.694	102.384	107.229	1.00	0.00	C
ATOM	6866	HB2	GLU	X	633	78.163	103.299	107.490	1.00	0.00	H
ATOM	6867	HB3	GLU	X	633	77.910	101.741	106.829	1.00	0.00	H
ATOM	6868	CG	GLU	X	633	79.273	101.838	108.514	1.00	0.00	C
ATOM	6869	HG2	GLU	X	633	80.215	102.346	108.723	1.00	0.00	H
ATOM	6870	HG3	GLU	X	633	78.565	102.078	109.308	1.00	0.00	H
ATOM	6871	CD	GLU	X	633	79.413	100.343	108.481	1.00	0.00	C
ATOM	6872	OE1	GLU	X	633	80.368	99.776	107.952	1.00	0.00	O
ATOM	6873	OE2	GLU	X	633	78.494	99.667	108.998	1.00	0.00	O
ATOM	6874	C	GLU	X	633	80.368	104.122	106.216	1.00	0.00	C
ATOM	6875	O	GLU	X	633	81.423	104.181	106.886	1.00	0.00	O
ATOM	6876	N	HIE	X	634	79.927	105.158	105.482	1.00	0.00	N
ATOM	6877	H	HIE	X	634	79.143	104.963	104.875	1.00	0.00	H
ATOM	6878	CA	HIE	X	634	80.481	106.449	105.300	1.00	0.00	C
ATOM	6879	HA	HIE	X	634	81.529	106.265	105.060	1.00	0.00	H
ATOM	6880	CB	HIE	X	634	79.751	107.117	104.097	1.00	0.00	C
ATOM	6881	HB2	HIE	X	634	79.889	106.523	103.193	1.00	0.00	H
ATOM	6882	HB3	HIE	X	634	78.676	107.096	104.268	1.00	0.00	H
ATOM	6883	CG	HIE	X	634	80.240	108.458	103.685	1.00	0.00	C
ATOM	6884	ND1	HIE	X	634	80.684	109.428	104.638	1.00	0.00	N
ATOM	6885	CE1	HIE	X	634	80.938	110.418	103.836	1.00	0.00	C
ATOM	6886	HE1	HIE	X	634	81.288	111.369	104.211	1.00	0.00	H

ATOM	6887	NE2	HIE	X	634	80.863	110.197	102.546	1.00	0.00		N
ATOM	6888	HE2	HIE	X	634	80.864	110.907	101.828	1.00	0.00		H
ATOM	6889	CD2	HIE	X	634	80.333	108.938	102.440	1.00	0.00		C
ATOM	6890	HD2	HIE	X	634	80.087	108.356	101.565	1.00	0.00		H
ATOM	6891	C	HIE	X	634	80.365	107.307	106.558	1.00	0.00		C
ATOM	6892	O	HIE	X	634	79.256	107.721	106.920	1.00	0.00		O
ATOM	6893	N	LYS	X	635	81.503	107.636	107.267	1.00	0.00		N
ATOM	6894	H	LYS	X	635	82.391	107.395	106.849	1.00	0.00		H
ATOM	6895	CA	LYS	X	635	81.498	108.190	108.610	1.00	0.00		C
ATOM	6896	HA	LYS	X	635	80.751	107.644	109.186	1.00	0.00		H
ATOM	6897	CB	LYS	X	635	82.949	108.056	109.133	1.00	0.00		C
ATOM	6898	HB2	LYS	X	635	83.710	108.515	108.504	1.00	0.00		H
ATOM	6899	HB3	LYS	X	635	82.969	108.593	110.081	1.00	0.00		H
ATOM	6900	CG	LYS	X	635	83.369	106.620	109.631	1.00	0.00		C
ATOM	6901	HG2	LYS	X	635	82.707	106.325	110.446	1.00	0.00		H
ATOM	6902	HG3	LYS	X	635	83.342	105.905	108.809	1.00	0.00		H
ATOM	6903	CD	LYS	X	635	84.807	106.517	110.220	1.00	0.00		C
ATOM	6904	HD2	LYS	X	635	85.514	106.470	109.391	1.00	0.00		H
ATOM	6905	HD3	LYS	X	635	85.104	107.421	110.750	1.00	0.00		H
ATOM	6906	CE	LYS	X	635	84.816	105.308	111.112	1.00	0.00		C
ATOM	6907	HE2	LYS	X	635	84.066	105.310	111.903	1.00	0.00		H
ATOM	6908	HE3	LYS	X	635	84.696	104.427	110.482	1.00	0.00		H
ATOM	6909	NZ	LYS	X	635	86.041	105.142	111.851	1.00	0.00		N
ATOM	6910	HZ1	LYS	X	635	85.990	105.744	112.661	1.00	0.00		H
ATOM	6911	HZ2	LYS	X	635	86.199	104.192	112.157	1.00	0.00		H
ATOM	6912	HZ3	LYS	X	635	86.853	105.488	111.362	1.00	0.00		H
ATOM	6913	C	LYS	X	635	81.033	109.627	108.785	1.00	0.00		C
ATOM	6914	O	LYS	X	635	80.825	110.038	109.908	1.00	0.00		O
ATOM	6915	N	GLU	X	636	80.938	110.344	107.726	1.00	0.00		N
ATOM	6916	H	GLU	X	636	81.180	109.949	106.829	1.00	0.00		H
ATOM	6917	CA	GLU	X	636	80.236	111.659	107.604	1.00	0.00		C
ATOM	6918	HA	GLU	X	636	79.831	111.793	108.606	1.00	0.00		H
ATOM	6919	CB	GLU	X	636	81.146	112.862	107.131	1.00	0.00		C
ATOM	6920	HB2	GLU	X	636	81.689	112.502	106.257	1.00	0.00		H
ATOM	6921	HB3	GLU	X	636	80.600	113.755	106.826	1.00	0.00		H
ATOM	6922	CG	GLU	X	636	82.266	113.096	108.228	1.00	0.00		C
ATOM	6923	HG2	GLU	X	636	82.796	112.170	108.450	1.00	0.00		H
ATOM	6924	HG3	GLU	X	636	83.005	113.766	107.789	1.00	0.00		H
ATOM	6925	CD	GLU	X	636	81.682	113.852	109.524	1.00	0.00		C
ATOM	6926	OE1	GLU	X	636	82.498	114.160	110.425	1.00	0.00		O
ATOM	6927	OE2	GLU	X	636	80.436	114.143	109.538	1.00	0.00		O
ATOM	6928	C	GLU	X	636	78.881	111.626	106.789	1.00	0.00		C
ATOM	6929	O	GLU	X	636	78.186	112.642	106.556	1.00	0.00		O
ATOM	6930	N	SER	X	637	78.246	110.461	106.542	1.00	0.00		N
ATOM	6931	H	SER	X	637	78.778	109.610	106.659	1.00	0.00		H
ATOM	6932	CA	SER	X	637	76.925	110.354	105.963	1.00	0.00		C
ATOM	6933	HA	SER	X	637	76.655	111.219	105.356	1.00	0.00		H
ATOM	6934	CB	SER	X	637	76.728	109.148	105.057	1.00	0.00		C
ATOM	6935	HB2	SER	X	637	77.445	109.354	104.261	1.00	0.00		H
ATOM	6936	HB3	SER	X	637	76.981	108.236	105.599	1.00	0.00		H
ATOM	6937	OG	SER	X	637	75.445	109.059	104.393	1.00	0.00		O
ATOM	6938	HG	SER	X	637	75.260	109.838	103.860	1.00	0.00		H
ATOM	6939	C	SER	X	637	75.815	110.144	107.002	1.00	0.00		C
ATOM	6940	O	SER	X	637	75.914	109.270	107.880	1.00	0.00		O
ATOM	6941	N	THR	X	638	74.807	110.955	107.027	1.00	0.00		N
ATOM	6942	H	THR	X	638	74.738	111.609	106.260	1.00	0.00		H
ATOM	6943	CA	THR	X	638	73.674	110.763	107.984	1.00	0.00		C
ATOM	6944	HA	THR	X	638	74.041	110.586	108.994	1.00	0.00		H
ATOM	6945	CB	THR	X	638	72.718	112.010	107.998	1.00	0.00		C
ATOM	6946	HB	THR	X	638	71.977	112.064	107.201	1.00	0.00		H
ATOM	6947	CG2	THR	X	638	71.942	111.952	109.304	1.00	0.00		C
ATOM	6948	HG21	THR	X	638	71.269	111.106	109.161	1.00	0.00		H
ATOM	6949	HG22	THR	X	638	72.590	111.803	110.168	1.00	0.00		H
ATOM	6950	HG23	THR	X	638	71.343	112.863	109.345	1.00	0.00		H
ATOM	6951	OG1	THR	X	638	73.468	113.226	107.966	1.00	0.00		O
ATOM	6952	HG1	THR	X	638	74.070	113.164	108.711	1.00	0.00		H
ATOM	6953	C	THR	X	638	72.819	109.660	107.442	1.00	0.00		C
ATOM	6954	O	THR	X	638	72.228	108.934	108.181	1.00	0.00		O
ATOM	6955	N	VAL	X	639	72.744	109.434	106.089	1.00	0.00		N
ATOM	6956	H	VAL	X	639	73.222	110.026	105.425	1.00	0.00		H
ATOM	6957	CA	VAL	X	639	72.108	108.245	105.587	1.00	0.00		C
ATOM	6958	HA	VAL	X	639	71.103	108.167	106.001	1.00	0.00		H
ATOM	6959	CB	VAL	X	639	72.022	108.293	104.012	1.00	0.00		C
ATOM	6960	HB	VAL	X	639	72.949	108.706	103.616	1.00	0.00		H
ATOM	6961	CG1	VAL	X	639	71.628	106.949	103.377	1.00	0.00		C
ATOM	6962	HG11	VAL	X	639	72.496	106.306	103.520	1.00	0.00		H
ATOM	6963	HG12	VAL	X	639	70.779	106.449	103.844	1.00	0.00		H
ATOM	6964	HG13	VAL	X	639	71.528	107.028	102.294	1.00	0.00		H
ATOM	6965	CG2	VAL	X	639	71.002	109.294	103.581	1.00	0.00		C
ATOM	6966	HG21	VAL	X	639	70.960	109.288	102.492	1.00	0.00		H
ATOM	6967	HG22	VAL	X	639	70.037	108.954	103.958	1.00	0.00		H
ATOM	6968	HG23	VAL	X	639	71.193	110.333	103.845	1.00	0.00		H

ATOM	6969	C	VAL	X	639	72.747	107.006	106.170	1.00	0.00	C
ATOM	6970	O	VAL	X	639	72.014	106.153	106.615	1.00	0.00	O
ATOM	6971	N	ALA	X	640	74.087	106.902	106.330	1.00	0.00	N
ATOM	6972	H	ALA	X	640	74.637	107.633	105.901	1.00	0.00	H
ATOM	6973	CA	ALA	X	640	74.641	105.670	106.866	1.00	0.00	C
ATOM	6974	HA	ALA	X	640	74.166	104.822	106.370	1.00	0.00	H
ATOM	6975	CB	ALA	X	640	76.182	105.510	106.598	1.00	0.00	C
ATOM	6976	HB1	ALA	X	640	76.412	105.789	105.569	1.00	0.00	H
ATOM	6977	HB2	ALA	X	640	76.767	105.984	107.386	1.00	0.00	H
ATOM	6978	HB3	ALA	X	640	76.286	104.451	106.831	1.00	0.00	H
ATOM	6979	C	ALA	X	640	74.371	105.514	108.339	1.00	0.00	C
ATOM	6980	O	ALA	X	640	73.862	104.424	108.712	1.00	0.00	O
ATOM	6981	N	ALA	X	641	74.710	106.493	109.202	1.00	0.00	N
ATOM	6982	H	ALA	X	641	75.017	107.387	108.846	1.00	0.00	H
ATOM	6983	CA	ALA	X	641	74.422	106.377	110.651	1.00	0.00	C
ATOM	6984	HA	ALA	X	641	74.979	105.508	111.002	1.00	0.00	H
ATOM	6985	CB	ALA	X	641	74.885	107.647	111.452	1.00	0.00	C
ATOM	6986	HB1	ALA	X	641	75.954	107.729	111.251	1.00	0.00	H
ATOM	6987	HB2	ALA	X	641	74.337	108.528	111.117	1.00	0.00	H
ATOM	6988	HB3	ALA	X	641	74.647	107.502	112.506	1.00	0.00	H
ATOM	6989	C	ALA	X	641	72.928	106.012	111.006	1.00	0.00	C
ATOM	6990	O	ALA	X	641	72.568	105.410	112.035	1.00	0.00	O
ATOM	6991	N	LEU	X	642	71.926	106.353	110.141	1.00	0.00	N
ATOM	6992	H	LEU	X	642	72.229	106.819	109.298	1.00	0.00	H
ATOM	6993	CA	LEU	X	642	70.516	105.927	110.298	1.00	0.00	C
ATOM	6994	HA	LEU	X	642	70.264	106.073	111.349	1.00	0.00	H
ATOM	6995	CB	LEU	X	642	69.588	106.901	109.540	1.00	0.00	C
ATOM	6996	HB2	LEU	X	642	69.910	107.058	108.510	1.00	0.00	H
ATOM	6997	HB3	LEU	X	642	68.570	106.514	109.500	1.00	0.00	H
ATOM	6998	CG	LEU	X	642	69.451	108.410	110.008	1.00	0.00	C
ATOM	6999	HG	LEU	X	642	70.449	108.848	109.992	1.00	0.00	H
ATOM	7000	CD1	LEU	X	642	68.662	109.289	109.022	1.00	0.00	C
ATOM	7001	HD11	LEU	X	642	69.295	109.539	108.170	1.00	0.00	H
ATOM	7002	HD12	LEU	X	642	67.728	108.772	108.795	1.00	0.00	H
ATOM	7003	HD13	LEU	X	642	68.457	110.249	109.498	1.00	0.00	H
ATOM	7004	CD2	LEU	X	642	68.929	108.507	111.434	1.00	0.00	C
ATOM	7005	HD21	LEU	X	642	67.871	108.242	111.465	1.00	0.00	H
ATOM	7006	HD22	LEU	X	642	69.534	107.843	112.051	1.00	0.00	H
ATOM	7007	HD23	LEU	X	642	69.046	109.542	111.755	1.00	0.00	H
ATOM	7008	C	LEU	X	642	70.376	104.446	109.987	1.00	0.00	C
ATOM	7009	O	LEU	X	642	70.007	103.645	110.783	1.00	0.00	O
ATOM	7010	N	LEU	X	643	70.748	104.039	108.790	1.00	0.00	N
ATOM	7011	H	LEU	X	643	71.042	104.799	108.191	1.00	0.00	H
ATOM	7012	CA	LEU	X	643	70.731	102.617	108.261	1.00	0.00	C
ATOM	7013	HA	LEU	X	643	69.695	102.286	108.349	1.00	0.00	H
ATOM	7014	CB	LEU	X	643	71.186	102.649	106.804	1.00	0.00	C
ATOM	7015	HB2	LEU	X	643	72.177	103.083	106.672	1.00	0.00	H
ATOM	7016	HB3	LEU	X	643	71.253	101.597	106.533	1.00	0.00	H
ATOM	7017	CG	LEU	X	643	70.243	103.350	105.823	1.00	0.00	C
ATOM	7018	HG	LEU	X	643	70.042	104.360	106.181	1.00	0.00	H
ATOM	7019	CD1	LEU	X	643	70.854	103.508	104.516	1.00	0.00	C
ATOM	7020	HD11	LEU	X	643	71.785	104.074	104.557	1.00	0.00	H
ATOM	7021	HD12	LEU	X	643	71.167	102.585	104.027	1.00	0.00	H
ATOM	7022	HD13	LEU	X	643	70.213	103.988	103.777	1.00	0.00	H
ATOM	7023	CD2	LEU	X	643	68.959	102.586	105.616	1.00	0.00	C
ATOM	7024	HD21	LEU	X	643	68.473	102.345	106.562	1.00	0.00	H
ATOM	7025	HD22	LEU	X	643	68.189	103.126	105.065	1.00	0.00	H
ATOM	7026	HD23	LEU	X	643	69.236	101.633	105.165	1.00	0.00	H
ATOM	7027	C	LEU	X	643	71.496	101.640	109.117	1.00	0.00	C
ATOM	7028	O	LEU	X	643	71.111	100.527	109.549	1.00	0.00	O
ATOM	7029	N	GLN	X	644	72.620	102.117	109.581	1.00	0.00	N
ATOM	7030	H	GLN	X	644	72.742	103.092	109.350	1.00	0.00	H
ATOM	7031	CA	GLN	X	644	73.556	101.412	110.413	1.00	0.00	C
ATOM	7032	HA	GLN	X	644	73.891	100.501	109.916	1.00	0.00	H
ATOM	7033	CB	GLN	X	644	74.785	102.296	110.536	1.00	0.00	C
ATOM	7034	HB2	GLN	X	644	75.217	102.520	109.560	1.00	0.00	H
ATOM	7035	HB3	GLN	X	644	74.427	103.226	110.977	1.00	0.00	H
ATOM	7036	CG	GLN	X	644	75.867	101.682	111.438	1.00	0.00	C
ATOM	7037	HG2	GLN	X	644	75.530	100.670	111.667	1.00	0.00	H
ATOM	7038	HG3	GLN	X	644	76.827	101.707	110.922	1.00	0.00	H
ATOM	7039	CD	GLN	X	644	76.136	102.457	112.756	1.00	0.00	C
ATOM	7040	OE1	GLN	X	644	76.009	102.008	113.857	1.00	0.00	O
ATOM	7041	NE2	GLN	X	644	76.597	103.696	112.730	1.00	0.00	N
ATOM	7042	HE21	GLN	X	644	76.992	104.056	113.587	1.00	0.00	H
ATOM	7043	HE22	GLN	X	644	76.878	104.121	111.858	1.00	0.00	H
ATOM	7044	C	GLN	X	644	72.925	101.027	111.784	1.00	0.00	C
ATOM	7045	O	GLN	X	644	73.262	99.982	112.299	1.00	0.00	O
ATOM	7046	N	LYS	X	645	72.113	101.898	112.375	1.00	0.00	N
ATOM	7047	H	LYS	X	645	71.966	102.748	111.850	1.00	0.00	H
ATOM	7048	CA	LYS	X	645	71.463	101.709	113.689	1.00	0.00	C
ATOM	7049	HA	LYS	X	645	71.960	101.018	114.369	1.00	0.00	H
ATOM	7050	CB	LYS	X	645	71.624	103.078	114.401	1.00	0.00	C

ATOM	7051	HB2	LYS	X	645	71.307	103.896	113.756	1.00	0.00	H
ATOM	7052	HB3	LYS	X	645	71.009	103.025	115.300	1.00	0.00	H
ATOM	7053	CG	LYS	X	645	73.066	103.333	114.787	1.00	0.00	C
ATOM	7054	HG2	LYS	X	645	73.438	102.336	115.024	1.00	0.00	H
ATOM	7055	HG3	LYS	X	645	73.619	103.632	113.896	1.00	0.00	H
ATOM	7056	CD	LYS	X	645	73.387	104.325	115.926	1.00	0.00	C
ATOM	7057	HD2	LYS	X	645	72.951	105.274	115.616	1.00	0.00	H
ATOM	7058	HD3	LYS	X	645	72.864	103.954	116.808	1.00	0.00	H
ATOM	7059	CE	LYS	X	645	74.859	104.540	116.310	1.00	0.00	C
ATOM	7060	HE2	LYS	X	645	75.240	103.554	116.581	1.00	0.00	H
ATOM	7061	HE3	LYS	X	645	75.399	105.058	115.518	1.00	0.00	H
ATOM	7062	NZ	LYS	X	645	75.046	105.455	117.494	1.00	0.00	N
ATOM	7063	HZ1	LYS	X	645	76.012	105.567	117.769	1.00	0.00	H
ATOM	7064	HZ2	LYS	X	645	74.577	106.333	117.321	1.00	0.00	H
ATOM	7065	HZ3	LYS	X	645	74.554	105.172	118.330	1.00	0.00	H
ATOM	7066	C	LYS	X	645	69.944	101.434	113.611	1.00	0.00	C
ATOM	7067	O	LYS	X	645	69.280	101.334	114.643	1.00	0.00	O
ATOM	7068	N	THR	X	646	69.397	101.332	112.439	1.00	0.00	N
ATOM	7069	H	THR	X	646	69.903	101.563	111.597	1.00	0.00	H
ATOM	7070	CA	THR	X	646	67.984	100.930	112.200	1.00	0.00	C
ATOM	7071	HA	THR	X	646	67.266	101.532	112.757	1.00	0.00	H
ATOM	7072	CB	THR	X	646	67.661	101.190	110.700	1.00	0.00	C
ATOM	7073	HB	THR	X	646	68.442	100.746	110.083	1.00	0.00	H
ATOM	7074	CG2	THR	X	646	66.426	100.567	110.169	1.00	0.00	C
ATOM	7075	HG21	THR	X	646	66.323	100.702	109.091	1.00	0.00	H
ATOM	7076	HG22	THR	X	646	66.321	99.515	110.435	1.00	0.00	H
ATOM	7077	HG23	THR	X	646	65.652	101.130	110.692	1.00	0.00	H
ATOM	7078	OG1	THR	X	646	67.671	102.597	110.563	1.00	0.00	O
ATOM	7079	HG1	THR	X	646	68.563	102.949	110.585	1.00	0.00	H
ATOM	7080	C	THR	X	646	67.863	99.447	112.659	1.00	0.00	C
ATOM	7081	O	THR	X	646	68.720	98.591	112.427	1.00	0.00	O
ATOM	7082	N	GLU	X	647	66.664	99.108	113.209	1.00	0.00	N
ATOM	7083	H	GLU	X	647	65.973	99.817	113.412	1.00	0.00	H
ATOM	7084	CA	GLU	X	647	66.300	97.692	113.617	1.00	0.00	C
ATOM	7085	HA	GLU	X	647	67.129	97.430	114.274	1.00	0.00	H
ATOM	7086	CB	GLU	X	647	64.982	97.688	114.412	1.00	0.00	C
ATOM	7087	HB2	GLU	X	647	64.167	98.140	113.849	1.00	0.00	H
ATOM	7088	HB3	GLU	X	647	64.646	96.700	114.725	1.00	0.00	H
ATOM	7089	CG	GLU	X	647	64.981	98.466	115.703	1.00	0.00	C
ATOM	7090	HG2	GLU	X	647	64.721	99.500	115.479	1.00	0.00	H
ATOM	7091	HG3	GLU	X	647	64.155	98.097	116.311	1.00	0.00	H
ATOM	7092	CD	GLU	X	647	66.262	98.417	116.559	1.00	0.00	C
ATOM	7093	OE1	GLU	X	647	66.774	99.523	116.888	1.00	0.00	O
ATOM	7094	OE2	GLU	X	647	66.849	97.364	116.984	1.00	0.00	O
ATOM	7095	C	GLU	X	647	66.148	96.786	112.383	1.00	0.00	C
ATOM	7096	O	GLU	X	647	65.268	97.129	111.558	1.00	0.00	O
ATOM	7097	N	PRO	X	648	66.853	95.616	112.290	1.00	0.00	N
ATOM	7098	CD	PRO	X	648	67.973	95.315	113.098	1.00	0.00	C
ATOM	7099	HD2	PRO	X	648	67.756	95.180	114.158	1.00	0.00	H
ATOM	7100	HD3	PRO	X	648	68.717	96.095	112.930	1.00	0.00	H
ATOM	7101	CG	PRO	X	648	68.681	94.117	112.516	1.00	0.00	C
ATOM	7102	HG2	PRO	X	648	69.096	93.455	113.275	1.00	0.00	H
ATOM	7103	HG3	PRO	X	648	69.286	94.355	111.641	1.00	0.00	H
ATOM	7104	CB	PRO	X	648	67.450	93.427	111.899	1.00	0.00	C
ATOM	7105	HB2	PRO	X	648	66.831	92.928	112.645	1.00	0.00	H
ATOM	7106	HB3	PRO	X	648	67.841	92.668	111.221	1.00	0.00	H
ATOM	7107	CA	PRO	X	648	66.723	94.585	111.292	1.00	0.00	C
ATOM	7108	HA	PRO	X	648	67.268	94.837	110.382	1.00	0.00	H
ATOM	7109	C	PRO	X	648	65.297	94.368	110.834	1.00	0.00	C
ATOM	7110	O	PRO	X	648	64.998	94.378	109.622	1.00	0.00	O
ATOM	7111	N	HIE	X	649	64.350	94.338	111.783	1.00	0.00	N
ATOM	7112	H	HIE	X	649	64.645	94.055	112.707	1.00	0.00	H
ATOM	7113	CA	HIE	X	649	62.953	94.116	111.454	1.00	0.00	C
ATOM	7114	HA	HIE	X	649	62.976	93.324	110.704	1.00	0.00	H
ATOM	7115	CB	HIE	X	649	62.152	93.647	112.647	1.00	0.00	C
ATOM	7116	HB2	HIE	X	649	61.220	93.290	112.209	1.00	0.00	H
ATOM	7117	HB3	HIE	X	649	62.617	92.715	112.970	1.00	0.00	H
ATOM	7118	CG	HIE	X	649	61.871	94.476	113.860	1.00	0.00	C
ATOM	7119	ND1	HIE	X	649	61.255	93.982	115.000	1.00	0.00	N
ATOM	7120	CE1	HIE	X	649	61.150	95.031	115.881	1.00	0.00	C
ATOM	7121	HE1	HIE	X	649	60.651	95.000	116.839	1.00	0.00	H
ATOM	7122	NE2	HIE	X	649	61.460	96.171	115.341	1.00	0.00	N
ATOM	7123	HE2	HIE	X	649	61.531	97.054	115.825	1.00	0.00	H
ATOM	7124	CD2	HIE	X	649	62.005	95.850	114.068	1.00	0.00	C
ATOM	7125	HD2	HIE	X	649	62.408	96.539	113.341	1.00	0.00	H
ATOM	7126	C	HIE	X	649	62.179	95.311	110.872	1.00	0.00	C
ATOM	7127	O	HIE	X	649	61.104	95.031	110.339	1.00	0.00	O
ATOM	7128	N	ASN	X	650	62.784	96.499	110.790	1.00	0.00	N
ATOM	7129	H	ASN	X	650	63.584	96.708	111.372	1.00	0.00	H
ATOM	7130	CA	ASN	X	650	62.343	97.477	109.800	1.00	0.00	C
ATOM	7131	HA	ASN	X	650	61.341	97.274	109.422	1.00	0.00	H
ATOM	7132	CB	ASN	X	650	62.273	98.766	110.640	1.00	0.00	C

ATOM	7133	HB2	ASN	X	650	63.291	99.141	110.756	1.00	0.00	H
ATOM	7134	HB3	ASN	X	650	61.843	99.540	110.004	1.00	0.00	H
ATOM	7135	CG	ASN	X	650	61.518	98.692	111.986	1.00	0.00	C
ATOM	7136	OD1	ASN	X	650	60.527	98.056	112.143	1.00	0.00	O
ATOM	7137	ND2	ASN	X	650	61.998	99.275	113.063	1.00	0.00	N
ATOM	7138	HD21	ASN	X	650	61.475	99.288	113.928	1.00	0.00	H
ATOM	7139	HD22	ASN	X	650	62.816	99.863	113.011	1.00	0.00	H
ATOM	7140	C	ASN	X	650	63.164	97.612	108.589	1.00	0.00	C
ATOM	7141	O	ASN	X	650	62.670	97.835	107.498	1.00	0.00	O
ATOM	7142	N	LEU	X	651	64.484	97.445	108.707	1.00	0.00	N
ATOM	7143	H	LEU	X	651	64.836	97.220	109.626	1.00	0.00	H
ATOM	7144	CA	LEU	X	651	65.500	97.570	107.651	1.00	0.00	C
ATOM	7145	HA	LEU	X	651	65.595	98.616	107.361	1.00	0.00	H
ATOM	7146	CB	LEU	X	651	66.839	97.037	108.240	1.00	0.00	C
ATOM	7147	HB2	LEU	X	651	67.122	97.440	109.212	1.00	0.00	H
ATOM	7148	HB3	LEU	X	651	66.697	95.982	108.471	1.00	0.00	H
ATOM	7149	CG	LEU	X	651	68.127	97.236	107.342	1.00	0.00	C
ATOM	7150	HG	LEU	X	651	67.850	96.998	106.315	1.00	0.00	H
ATOM	7151	CD1	LEU	X	651	68.727	98.661	107.589	1.00	0.00	C
ATOM	7152	HD11	LEU	X	651	69.672	98.741	107.052	1.00	0.00	H
ATOM	7153	HD12	LEU	X	651	68.099	99.446	107.169	1.00	0.00	H
ATOM	7154	HD13	LEU	X	651	69.022	98.810	108.628	1.00	0.00	H
ATOM	7155	CD2	LEU	X	651	69.235	96.207	107.654	1.00	0.00	C
ATOM	7156	HD21	LEU	X	651	70.200	96.555	107.287	1.00	0.00	H
ATOM	7157	HD22	LEU	X	651	69.351	96.059	108.727	1.00	0.00	H
ATOM	7158	HD23	LEU	X	651	68.996	95.269	107.152	1.00	0.00	H
ATOM	7159	C	LEU	X	651	65.052	96.749	106.425	1.00	0.00	C
ATOM	7160	O	LEU	X	651	65.051	97.272	105.307	1.00	0.00	O
ATOM	7161	N	GLN	X	652	64.691	95.481	106.596	1.00	0.00	N
ATOM	7162	H	GLN	X	652	64.683	95.143	107.548	1.00	0.00	H
ATOM	7163	CA	GLN	X	652	64.281	94.553	105.530	1.00	0.00	C
ATOM	7164	HA	GLN	X	652	65.113	94.553	104.826	1.00	0.00	H
ATOM	7165	CB	GLN	X	652	64.186	93.142	106.098	1.00	0.00	C
ATOM	7166	HB2	GLN	X	652	64.077	92.453	105.260	1.00	0.00	H
ATOM	7167	HB3	GLN	X	652	65.155	92.951	106.557	1.00	0.00	H
ATOM	7168	CG	GLN	X	652	63.022	92.831	107.053	1.00	0.00	C
ATOM	7169	HG2	GLN	X	652	63.048	93.635	107.789	1.00	0.00	H
ATOM	7170	HG3	GLN	X	652	62.040	92.861	106.583	1.00	0.00	H
ATOM	7171	CD	GLN	X	652	63.126	91.461	107.721	1.00	0.00	C
ATOM	7172	OE1	GLN	X	652	63.950	90.604	107.360	1.00	0.00	O
ATOM	7173	NE2	GLN	X	652	62.326	91.077	108.746	1.00	0.00	N
ATOM	7174	HE21	GLN	X	652	62.570	90.184	109.151	1.00	0.00	H
ATOM	7175	HE22	GLN	X	652	61.563	91.650	109.079	1.00	0.00	H
ATOM	7176	C	GLN	X	652	62.968	94.977	104.890	1.00	0.00	C
ATOM	7177	O	GLN	X	652	62.716	94.641	103.721	1.00	0.00	O
ATOM	7178	N	ILE	X	653	62.144	95.766	105.536	1.00	0.00	N
ATOM	7179	H	ILE	X	653	62.294	95.998	106.509	1.00	0.00	H
ATOM	7180	CA	ILE	X	653	60.815	96.237	104.989	1.00	0.00	C
ATOM	7181	HA	ILE	X	653	60.280	95.447	104.462	1.00	0.00	H
ATOM	7182	CB	ILE	X	653	59.870	96.793	106.058	1.00	0.00	C
ATOM	7183	HB	ILE	X	653	60.437	97.652	106.414	1.00	0.00	H
ATOM	7184	CG2	ILE	X	653	58.529	97.241	105.461	1.00	0.00	C
ATOM	7185	HG21	ILE	X	653	57.979	96.315	105.290	1.00	0.00	H
ATOM	7186	HG22	ILE	X	653	57.935	97.708	106.247	1.00	0.00	H
ATOM	7187	HG23	ILE	X	653	58.616	97.937	104.627	1.00	0.00	H
ATOM	7188	CG1	ILE	X	653	59.605	95.829	107.276	1.00	0.00	C
ATOM	7189	HG12	ILE	X	653	59.191	94.923	106.834	1.00	0.00	H
ATOM	7190	HG13	ILE	X	653	60.550	95.574	107.756	1.00	0.00	H
ATOM	7191	CD1	ILE	X	653	58.685	96.327	108.395	1.00	0.00	C
ATOM	7192	HD11	ILE	X	653	59.001	97.255	108.870	1.00	0.00	H
ATOM	7193	HD12	ILE	X	653	57.708	96.605	108.001	1.00	0.00	H
ATOM	7194	HD13	ILE	X	653	58.490	95.512	109.093	1.00	0.00	H
ATOM	7195	C	ILE	X	653	61.158	97.394	104.023	1.00	0.00	C
ATOM	7196	O	ILE	X	653	60.693	97.419	102.862	1.00	0.00	O
ATOM	7197	N	THR	X	654	62.018	98.321	104.488	1.00	0.00	N
ATOM	7198	H	THR	X	654	62.427	98.158	105.398	1.00	0.00	H
ATOM	7199	CA	THR	X	654	62.574	99.394	103.660	1.00	0.00	C
ATOM	7200	HA	THR	X	654	61.779	100.122	103.495	1.00	0.00	H
ATOM	7201	CB	THR	X	654	63.592	100.301	104.425	1.00	0.00	C
ATOM	7202	HB	THR	X	654	64.503	99.739	104.625	1.00	0.00	H
ATOM	7203	CG2	THR	X	654	63.971	101.468	103.631	1.00	0.00	C
ATOM	7204	HG21	THR	X	654	64.764	102.045	104.106	1.00	0.00	H
ATOM	7205	HG22	THR	X	654	64.440	101.191	102.687	1.00	0.00	H
ATOM	7206	HG23	THR	X	654	63.182	102.169	103.360	1.00	0.00	H
ATOM	7207	OG1	THR	X	654	62.991	100.657	105.648	1.00	0.00	O
ATOM	7208	HG1	THR	X	654	63.125	100.006	106.342	1.00	0.00	H
ATOM	7209	C	THR	X	654	63.121	98.847	102.414	1.00	0.00	C
ATOM	7210	O	THR	X	654	62.752	99.309	101.331	1.00	0.00	O
ATOM	7211	N	ALA	X	655	64.066	97.923	102.543	1.00	0.00	N
ATOM	7212	H	ALA	X	655	64.122	97.589	103.496	1.00	0.00	H
ATOM	7213	CA	ALA	X	655	64.755	97.233	101.418	1.00	0.00	C
ATOM	7214	HA	ALA	X	655	65.324	97.987	100.876	1.00	0.00	H

ATOM	7215	CB	ALA	X	655	65.799	96.216	101.890	1.00	0.00	C
ATOM	7216	HB1	ALA	X	655	65.436	95.712	102.787	1.00	0.00	H
ATOM	7217	HB2	ALA	X	655	66.004	95.406	101.190	1.00	0.00	H
ATOM	7218	HB3	ALA	X	655	66.722	96.753	102.108	1.00	0.00	H
ATOM	7219	C	ALA	X	655	63.733	96.583	100.383	1.00	0.00	C
ATOM	7220	O	ALA	X	655	63.918	96.675	99.176	1.00	0.00	O
ATOM	7221	N	ALA	X	656	62.681	95.886	100.875	1.00	0.00	N
ATOM	7222	H	ALA	X	656	62.569	95.759	101.872	1.00	0.00	H
ATOM	7223	CA	ALA	X	656	61.639	95.432	99.928	1.00	0.00	C
ATOM	7224	HA	ALA	X	656	62.071	94.872	99.100	1.00	0.00	H
ATOM	7225	CB	ALA	X	656	60.637	94.481	100.624	1.00	0.00	C
ATOM	7226	HB1	ALA	X	656	59.865	94.073	99.972	1.00	0.00	H
ATOM	7227	HB2	ALA	X	656	61.243	93.719	101.113	1.00	0.00	H
ATOM	7228	HB3	ALA	X	656	60.151	95.086	101.390	1.00	0.00	H
ATOM	7229	C	ALA	X	656	60.874	96.510	99.078	1.00	0.00	C
ATOM	7230	O	ALA	X	656	60.525	96.299	97.902	1.00	0.00	O
ATOM	7231	N	PHE	X	657	60.505	97.650	99.746	1.00	0.00	N
ATOM	7232	H	PHE	X	657	60.794	97.799	100.703	1.00	0.00	H
ATOM	7233	CA	PHE	X	657	59.941	98.825	99.012	1.00	0.00	C
ATOM	7234	HA	PHE	X	657	59.223	98.484	98.266	1.00	0.00	H
ATOM	7235	CB	PHE	X	657	59.292	99.817	99.992	1.00	0.00	C
ATOM	7236	HB2	PHE	X	657	60.028	100.161	100.718	1.00	0.00	H
ATOM	7237	HB3	PHE	X	657	58.941	100.734	99.517	1.00	0.00	H
ATOM	7238	CG	PHE	X	657	58.116	99.320	100.645	1.00	0.00	C
ATOM	7239	CD1	PHE	X	657	58.099	99.142	102.026	1.00	0.00	C
ATOM	7240	HD1	PHE	X	657	58.991	99.200	102.631	1.00	0.00	H
ATOM	7241	CE1	PHE	X	657	56.892	98.734	102.638	1.00	0.00	C
ATOM	7242	HE1	PHE	X	657	56.794	98.675	103.711	1.00	0.00	H
ATOM	7243	CZ	PHE	X	657	55.697	98.570	101.943	1.00	0.00	C
ATOM	7244	HZ	PHE	X	657	54.723	98.388	102.374	1.00	0.00	H
ATOM	7245	CE2	PHE	X	657	55.749	98.625	100.577	1.00	0.00	C
ATOM	7246	HE2	PHE	X	657	54.841	98.490	100.008	1.00	0.00	H
ATOM	7247	CD2	PHE	X	657	56.932	99.096	99.943	1.00	0.00	C
ATOM	7248	HD2	PHE	X	657	56.890	99.167	98.865	1.00	0.00	H
ATOM	7249	C	PHE	X	657	61.001	99.487	98.140	1.00	0.00	C
ATOM	7250	O	PHE	X	657	60.607	100.052	97.083	1.00	0.00	O
ATOM	7251	N	LEU	X	658	62.319	99.442	98.479	1.00	0.00	N
ATOM	7252	H	LEU	X	658	62.645	99.018	99.337	1.00	0.00	H
ATOM	7253	CA	LEU	X	658	63.263	100.176	97.695	1.00	0.00	C
ATOM	7254	HA	LEU	X	658	62.852	101.143	97.403	1.00	0.00	H
ATOM	7255	CB	LEU	X	658	64.501	100.421	98.534	1.00	0.00	C
ATOM	7256	HB2	LEU	X	658	64.213	100.975	99.427	1.00	0.00	H
ATOM	7257	HB3	LEU	X	658	64.859	99.458	98.899	1.00	0.00	H
ATOM	7258	CG	LEU	X	658	65.543	101.142	97.644	1.00	0.00	C
ATOM	7259	HG	LEU	X	658	65.092	101.352	96.673	1.00	0.00	H
ATOM	7260	CD1	LEU	X	658	66.087	102.440	98.307	1.00	0.00	C
ATOM	7261	HD11	LEU	X	658	65.186	103.017	98.511	1.00	0.00	H
ATOM	7262	HD12	LEU	X	658	66.625	102.218	99.230	1.00	0.00	H
ATOM	7263	HD13	LEU	X	658	66.768	102.947	97.625	1.00	0.00	H
ATOM	7264	CD2	LEU	X	658	66.705	100.213	97.364	1.00	0.00	C
ATOM	7265	HD21	LEU	X	658	67.393	100.721	96.688	1.00	0.00	H
ATOM	7266	HD22	LEU	X	658	67.283	99.904	98.236	1.00	0.00	H
ATOM	7267	HD23	LEU	X	658	66.306	99.344	96.840	1.00	0.00	H
ATOM	7268	C	LEU	X	658	63.532	99.246	96.436	1.00	0.00	C
ATOM	7269	O	LEU	X	658	63.596	99.786	95.302	1.00	0.00	O
ATOM	7270	N	ALA	X	659	63.598	97.948	96.664	1.00	0.00	N
ATOM	7271	H	ALA	X	659	63.575	97.504	97.572	1.00	0.00	H
ATOM	7272	CA	ALA	X	659	63.515	97.033	95.543	1.00	0.00	C
ATOM	7273	HA	ALA	X	659	64.453	97.120	94.994	1.00	0.00	H
ATOM	7274	CB	ALA	X	659	63.543	95.529	95.949	1.00	0.00	C
ATOM	7275	HB1	ALA	X	659	62.554	95.194	96.256	1.00	0.00	H
ATOM	7276	HB2	ALA	X	659	63.935	94.933	95.124	1.00	0.00	H
ATOM	7277	HB3	ALA	X	659	64.204	95.402	96.807	1.00	0.00	H
ATOM	7278	C	ALA	X	659	62.367	97.244	94.514	1.00	0.00	C
ATOM	7279	O	ALA	X	659	62.611	97.463	93.358	1.00	0.00	O
ATOM	7280	N	GLY	X	660	61.100	97.183	95.036	1.00	0.00	N
ATOM	7281	H	GLY	X	660	61.004	96.739	95.939	1.00	0.00	H
ATOM	7282	CA	GLY	X	660	59.911	97.394	94.199	1.00	0.00	C
ATOM	7283	HA2	GLY	X	660	59.852	96.756	93.318	1.00	0.00	H
ATOM	7284	HA3	GLY	X	660	59.115	97.219	94.923	1.00	0.00	H
ATOM	7285	C	GLY	X	660	59.764	98.794	93.584	1.00	0.00	C
ATOM	7286	O	GLY	X	660	59.438	98.923	92.397	1.00	0.00	O
ATOM	7287	N	LEU	X	661	60.063	99.866	94.236	1.00	0.00	N
ATOM	7288	H	LEU	X	661	60.253	99.906	95.227	1.00	0.00	H
ATOM	7289	CA	LEU	X	661	60.070	101.186	93.547	1.00	0.00	C
ATOM	7290	HA	LEU	X	661	59.105	101.340	93.064	1.00	0.00	H
ATOM	7291	CB	LEU	X	661	60.286	102.285	94.643	1.00	0.00	C
ATOM	7292	HB2	LEU	X	661	61.081	101.966	95.317	1.00	0.00	H
ATOM	7293	HB3	LEU	X	661	60.414	103.229	94.114	1.00	0.00	H
ATOM	7294	CG	LEU	X	661	59.095	102.449	95.556	1.00	0.00	C
ATOM	7295	HG	LEU	X	661	58.592	101.541	95.889	1.00	0.00	H
ATOM	7296	CD1	LEU	X	661	59.627	103.274	96.756	1.00	0.00	C

ATOM	7297	HD11	LEU	X	661	60.138	104.165	96.391	1.00	0.00	H
ATOM	7298	HD12	LEU	X	661	58.755	103.445	97.386	1.00	0.00	H
ATOM	7299	HD13	LEU	X	661	60.328	102.604	97.255	1.00	0.00	H
ATOM	7300	CD2	LEU	X	661	58.072	103.275	94.820	1.00	0.00	C
ATOM	7301	HD21	LEU	X	661	57.566	102.696	94.045	1.00	0.00	H
ATOM	7302	HD22	LEU	X	661	57.404	103.626	95.606	1.00	0.00	H
ATOM	7303	HD23	LEU	X	661	58.404	104.207	94.363	1.00	0.00	H
ATOM	7304	C	LEU	X	661	61.144	101.256	92.391	1.00	0.00	C
ATOM	7305	O	LEU	X	661	60.967	102.004	91.368	1.00	0.00	O
ATOM	7306	N	LEU	X	662	62.221	100.517	92.458	1.00	0.00	N
ATOM	7307	H	LEU	X	662	62.343	99.898	93.246	1.00	0.00	H
ATOM	7308	CA	LEU	X	662	63.191	100.425	91.380	1.00	0.00	C
ATOM	7309	HA	LEU	X	662	63.267	101.392	90.884	1.00	0.00	H
ATOM	7310	CB	LEU	X	662	64.541	100.173	92.045	1.00	0.00	C
ATOM	7311	HB2	LEU	X	662	64.456	99.339	92.741	1.00	0.00	H
ATOM	7312	HB3	LEU	X	662	65.270	99.901	91.283	1.00	0.00	H
ATOM	7313	CG	LEU	X	662	65.120	101.383	92.752	1.00	0.00	C
ATOM	7314	HG	LEU	X	662	64.561	101.829	93.573	1.00	0.00	H
ATOM	7315	CD1	LEU	X	662	66.441	101.122	93.466	1.00	0.00	C
ATOM	7316	HD11	LEU	X	662	66.926	101.992	93.907	1.00	0.00	H
ATOM	7317	HD12	LEU	X	662	66.214	100.400	94.250	1.00	0.00	H
ATOM	7318	HD13	LEU	X	662	67.156	100.615	92.818	1.00	0.00	H
ATOM	7319	CD2	LEU	X	662	65.479	102.549	91.816	1.00	0.00	C
ATOM	7320	HD21	LEU	X	662	64.535	103.019	91.539	1.00	0.00	H
ATOM	7321	HD22	LEU	X	662	65.942	103.391	92.328	1.00	0.00	H
ATOM	7322	HD23	LEU	X	662	65.915	102.137	90.905	1.00	0.00	H
ATOM	7323	C	LEU	X	662	62.714	99.374	90.362	1.00	0.00	C
ATOM	7324	O	LEU	X	662	63.475	99.123	89.400	1.00	0.00	O
ATOM	7325	N	SER	X	663	61.463	98.832	90.413	1.00	0.00	N
ATOM	7326	H	SER	X	663	60.908	98.985	91.243	1.00	0.00	H
ATOM	7327	CA	SER	X	663	60.902	97.952	89.347	1.00	0.00	C
ATOM	7328	HA	SER	X	663	61.466	97.024	89.248	1.00	0.00	H
ATOM	7329	CB	SER	X	663	59.498	97.515	89.760	1.00	0.00	C
ATOM	7330	HB2	SER	X	663	59.480	96.894	90.656	1.00	0.00	H
ATOM	7331	HB3	SER	X	663	58.842	98.383	89.799	1.00	0.00	H
ATOM	7332	OG	SER	X	663	58.918	96.649	88.818	1.00	0.00	O
ATOM	7333	HG	SER	X	663	59.229	95.765	89.023	1.00	0.00	H
ATOM	7334	C	SER	X	663	60.812	98.746	88.033	1.00	0.00	C
ATOM	7335	O	SER	X	663	60.389	99.904	87.959	1.00	0.00	O
ATOM	7336	N	ARG	X	664	61.065	98.084	86.921	1.00	0.00	N
ATOM	7337	H	ARG	X	664	61.378	97.153	87.159	1.00	0.00	H
ATOM	7338	CA	ARG	X	664	60.687	98.607	85.693	1.00	0.00	C
ATOM	7339	HA	ARG	X	664	61.086	99.618	85.605	1.00	0.00	H
ATOM	7340	CB	ARG	X	664	61.164	97.689	84.552	1.00	0.00	C
ATOM	7341	HB2	ARG	X	664	60.868	98.172	83.620	1.00	0.00	H
ATOM	7342	HB3	ARG	X	664	62.238	97.514	84.542	1.00	0.00	H
ATOM	7343	CG	ARG	X	664	60.508	96.271	84.617	1.00	0.00	C
ATOM	7344	HG2	ARG	X	664	60.732	95.857	85.600	1.00	0.00	H
ATOM	7345	HG3	ARG	X	664	59.455	96.549	84.579	1.00	0.00	H
ATOM	7346	CD	ARG	X	664	60.872	95.398	83.465	1.00	0.00	C
ATOM	7347	HD2	ARG	X	664	61.028	95.985	82.559	1.00	0.00	H
ATOM	7348	HD3	ARG	X	664	61.742	94.795	83.727	1.00	0.00	H
ATOM	7349	NE	ARG	X	664	59.794	94.412	83.194	1.00	0.00	N
ATOM	7350	HE	ARG	X	664	58.965	94.771	82.744	1.00	0.00	H
ATOM	7351	CZ	ARG	X	664	59.755	93.153	83.494	1.00	0.00	C
ATOM	7352	NH1	ARG	X	664	60.682	92.532	84.091	1.00	0.00	N
ATOM	7353	HH11	ARG	X	664	61.456	93.050	84.482	1.00	0.00	H
ATOM	7354	HH12	ARG	X	664	60.468	91.570	84.313	1.00	0.00	H
ATOM	7355	NH2	ARG	X	664	58.859	92.422	82.963	1.00	0.00	N
ATOM	7356	HH21	ARG	X	664	58.020	92.872	82.624	1.00	0.00	H
ATOM	7357	HH22	ARG	X	664	59.028	91.433	82.853	1.00	0.00	H
ATOM	7358	C	ARG	X	664	59.192	98.928	85.553	1.00	0.00	C
ATOM	7359	O	ARG	X	664	58.903	99.932	84.908	1.00	0.00	O
ATOM	7360	N	GLU	X	665	58.288	98.146	86.088	1.00	0.00	N
ATOM	7361	H	GLU	X	665	58.624	97.219	86.302	1.00	0.00	H
ATOM	7362	CA	GLU	X	665	56.869	98.446	86.139	1.00	0.00	C
ATOM	7363	HA	GLU	X	665	56.586	98.416	85.087	1.00	0.00	H
ATOM	7364	CB	GLU	X	665	56.211	97.293	86.903	1.00	0.00	C
ATOM	7365	HB2	GLU	X	665	56.465	97.329	87.963	1.00	0.00	H
ATOM	7366	HB3	GLU	X	665	55.149	97.529	86.850	1.00	0.00	H
ATOM	7367	CG	GLU	X	665	56.544	95.949	86.348	1.00	0.00	C
ATOM	7368	HG2	GLU	X	665	57.607	95.831	86.559	1.00	0.00	H
ATOM	7369	HG3	GLU	X	665	55.990	95.187	86.898	1.00	0.00	H
ATOM	7370	CD	GLU	X	665	56.228	95.807	84.835	1.00	0.00	C
ATOM	7371	OE1	GLU	X	665	54.984	95.650	84.537	1.00	0.00	O
ATOM	7372	OE2	GLU	X	665	57.172	95.640	84.043	1.00	0.00	O
ATOM	7373	C	GLU	X	665	56.350	99.810	86.661	1.00	0.00	C
ATOM	7374	O	GLU	X	665	55.227	100.221	86.362	1.00	0.00	O
ATOM	7375	N	HIE	X	666	57.243	100.514	87.446	1.00	0.00	N
ATOM	7376	H	HIE	X	666	58.133	100.053	87.569	1.00	0.00	H
ATOM	7377	CA	HIE	X	666	57.025	101.862	87.943	1.00	0.00	C
ATOM	7378	HA	HIE	X	666	56.054	102.153	87.542	1.00	0.00	H

ATOM	7379	CB	HIE	X	666	56.912	101.980	89.470	1.00	0.00	C
ATOM	7380	HB2	HIE	X	666	57.884	102.028	89.958	1.00	0.00	H
ATOM	7381	HB3	HIE	X	666	56.479	102.982	89.474	1.00	0.00	H
ATOM	7382	CG	HIE	X	666	56.004	100.993	90.170	1.00	0.00	C
ATOM	7383	ND1	HIE	X	666	54.653	100.786	89.872	1.00	0.00	N
ATOM	7384	CE1	HIE	X	666	54.300	99.721	90.578	1.00	0.00	C
ATOM	7385	HE1	HIE	X	666	53.357	99.213	90.442	1.00	0.00	H
ATOM	7386	NE2	HIE	X	666	55.326	99.343	91.344	1.00	0.00	N
ATOM	7387	HE2	HIE	X	666	55.307	98.580	92.005	1.00	0.00	H
ATOM	7388	CD2	HIE	X	666	56.398	100.090	91.081	1.00	0.00	C
ATOM	7389	HD2	HIE	X	666	57.399	99.919	91.447	1.00	0.00	H
ATOM	7390	C	HIE	X	666	57.995	102.865	87.349	1.00	0.00	C
ATOM	7391	O	HIE	X	666	58.124	103.938	87.908	1.00	0.00	O
ATOM	7392	N	ARG	X	667	58.612	102.557	86.233	1.00	0.00	N
ATOM	7393	H	ARG	X	667	58.497	101.627	85.857	1.00	0.00	H
ATOM	7394	CA	ARG	X	667	59.579	103.489	85.611	1.00	0.00	C
ATOM	7395	HA	ARG	X	667	60.380	103.806	86.278	1.00	0.00	H
ATOM	7396	CB	ARG	X	667	60.232	102.822	84.355	1.00	0.00	C
ATOM	7397	HB2	ARG	X	667	60.634	101.884	84.740	1.00	0.00	H
ATOM	7398	HB3	ARG	X	667	59.466	102.537	83.635	1.00	0.00	H
ATOM	7399	CG	ARG	X	667	61.553	103.505	83.861	1.00	0.00	C
ATOM	7400	HG2	ARG	X	667	62.173	103.763	84.720	1.00	0.00	H
ATOM	7401	HG3	ARG	X	667	62.175	102.838	83.263	1.00	0.00	H
ATOM	7402	CD	ARG	X	667	61.405	104.829	83.053	1.00	0.00	C
ATOM	7403	HD2	ARG	X	667	60.779	105.439	83.705	1.00	0.00	H
ATOM	7404	HD3	ARG	X	667	62.337	105.309	82.755	1.00	0.00	H
ATOM	7405	NE	ARG	X	667	60.676	104.618	81.818	1.00	0.00	N
ATOM	7406	HE	ARG	X	667	59.679	104.464	81.852	1.00	0.00	H
ATOM	7407	CZ	ARG	X	667	61.078	104.501	80.607	1.00	0.00	C
ATOM	7408	NH1	ARG	X	667	62.350	104.743	80.244	1.00	0.00	N
ATOM	7409	HH11	ARG	X	667	62.946	105.247	80.885	1.00	0.00	H
ATOM	7410	HH12	ARG	X	667	62.712	104.583	79.315	1.00	0.00	H
ATOM	7411	NH2	ARG	X	667	60.248	104.115	79.682	1.00	0.00	N
ATOM	7412	HH21	ARG	X	667	59.277	104.056	79.951	1.00	0.00	H
ATOM	7413	HH22	ARG	X	667	60.566	103.864	78.758	1.00	0.00	H
ATOM	7414	C	ARG	X	667	58.875	104.816	85.192	1.00	0.00	C
ATOM	7415	O	ARG	X	667	59.372	105.905	85.460	1.00	0.00	O
ATOM	7416	N	ASP	X	668	57.773	104.689	84.459	1.00	0.00	N
ATOM	7417	H	ASP	X	668	57.450	103.775	84.177	1.00	0.00	H
ATOM	7418	CA	ASP	X	668	57.090	105.871	83.895	1.00	0.00	C
ATOM	7419	HA	ASP	X	668	57.758	106.585	83.414	1.00	0.00	H
ATOM	7420	CB	ASP	X	668	56.136	105.383	82.828	1.00	0.00	C
ATOM	7421	HB2	ASP	X	668	55.219	104.903	83.171	1.00	0.00	H
ATOM	7422	HB3	ASP	X	668	55.807	106.263	82.275	1.00	0.00	H
ATOM	7423	CG	ASP	X	668	56.863	104.492	81.788	1.00	0.00	C
ATOM	7424	OD1	ASP	X	668	58.007	104.827	81.354	1.00	0.00	O
ATOM	7425	OD2	ASP	X	668	56.412	103.361	81.505	1.00	0.00	O
ATOM	7426	C	ASP	X	668	56.491	106.831	84.930	1.00	0.00	C
ATOM	7427	O	ASP	X	668	56.642	108.030	84.757	1.00	0.00	O
ATOM	7428	N	LEU	X	669	55.863	106.253	85.956	1.00	0.00	N
ATOM	7429	H	LEU	X	669	55.920	105.246	85.961	1.00	0.00	H
ATOM	7430	CA	LEU	X	669	55.281	107.093	87.074	1.00	0.00	C
ATOM	7431	HA	LEU	X	669	54.566	107.780	86.621	1.00	0.00	H
ATOM	7432	CB	LEU	X	669	54.477	106.067	87.921	1.00	0.00	C
ATOM	7433	HB2	LEU	X	669	53.667	105.584	87.375	1.00	0.00	H
ATOM	7434	HB3	LEU	X	669	55.237	105.388	88.306	1.00	0.00	H
ATOM	7435	CG	LEU	X	669	53.908	106.614	89.258	1.00	0.00	C
ATOM	7436	HG	LEU	X	669	54.762	107.036	89.787	1.00	0.00	H
ATOM	7437	CD1	LEU	X	669	52.800	107.703	88.890	1.00	0.00	C
ATOM	7438	HD11	LEU	X	669	53.380	108.500	88.424	1.00	0.00	H
ATOM	7439	HD12	LEU	X	669	52.078	107.223	88.231	1.00	0.00	H
ATOM	7440	HD13	LEU	X	669	52.281	108.159	89.733	1.00	0.00	H
ATOM	7441	CD2	LEU	X	669	53.457	105.405	90.184	1.00	0.00	C
ATOM	7442	HD21	LEU	X	669	54.270	104.688	90.299	1.00	0.00	H
ATOM	7443	HD22	LEU	X	669	53.015	105.770	91.112	1.00	0.00	H
ATOM	7444	HD23	LEU	X	669	52.609	104.894	89.728	1.00	0.00	H
ATOM	7445	C	LEU	X	669	56.351	107.907	87.820	1.00	0.00	C
ATOM	7446	O	LEU	X	669	56.120	109.030	88.178	1.00	0.00	O
ATOM	7447	N	LEU	X	670	57.468	107.199	88.145	1.00	0.00	N
ATOM	7448	H	LEU	X	670	57.482	106.205	87.961	1.00	0.00	H
ATOM	7449	CA	LEU	X	670	58.567	107.783	88.943	1.00	0.00	C
ATOM	7450	HA	LEU	X	670	58.105	108.413	89.702	1.00	0.00	H
ATOM	7451	CB	LEU	X	670	59.250	106.603	89.739	1.00	0.00	C
ATOM	7452	HB2	LEU	X	670	59.731	106.114	88.892	1.00	0.00	H
ATOM	7453	HB3	LEU	X	670	60.037	107.002	90.380	1.00	0.00	H
ATOM	7454	CG	LEU	X	670	58.252	105.689	90.510	1.00	0.00	C
ATOM	7455	HG	LEU	X	670	57.464	105.352	89.837	1.00	0.00	H
ATOM	7456	CD1	LEU	X	670	59.066	104.508	91.073	1.00	0.00	C
ATOM	7457	HD11	LEU	X	670	59.486	103.984	90.215	1.00	0.00	H
ATOM	7458	HD12	LEU	X	670	59.942	104.814	91.644	1.00	0.00	H
ATOM	7459	HD13	LEU	X	670	58.473	103.863	91.723	1.00	0.00	H
ATOM	7460	CD2	LEU	X	670	57.575	106.360	91.693	1.00	0.00	C

ATOM	7461	HD21	LEU	X	670	58.281	106.639	92.476	1.00	0.00	H
ATOM	7462	HD22	LEU	X	670	56.973	107.178	91.299	1.00	0.00	H
ATOM	7463	HD23	LEU	X	670	56.964	105.583	92.149	1.00	0.00	H
ATOM	7464	C	LEU	X	670	59.575	108.615	88.094	1.00	0.00	C
ATOM	7465	O	LEU	X	670	60.121	109.534	88.640	1.00	0.00	O
ATOM	7466	N	ALA	X	671	59.614	108.323	86.743	1.00	0.00	N
ATOM	7467	H	ALA	X	671	59.162	107.470	86.448	1.00	0.00	H
ATOM	7468	CA	ALA	X	671	60.280	109.159	85.794	1.00	0.00	C
ATOM	7469	HA	ALA	X	671	61.355	109.243	85.958	1.00	0.00	H
ATOM	7470	CB	ALA	X	671	60.117	108.611	84.422	1.00	0.00	C
ATOM	7471	HB1	ALA	X	671	59.065	108.664	84.141	1.00	0.00	H
ATOM	7472	HB2	ALA	X	671	60.649	109.292	83.755	1.00	0.00	H
ATOM	7473	HB3	ALA	X	671	60.640	107.656	84.483	1.00	0.00	H
ATOM	7474	C	ALA	X	671	59.699	110.578	85.794	1.00	0.00	C
ATOM	7475	O	ALA	X	671	60.399	111.629	85.825	1.00	0.00	O
ATOM	7476	N	ALA	X	672	58.368	110.664	85.854	1.00	0.00	N
ATOM	7477	H	ALA	X	672	57.836	109.807	85.792	1.00	0.00	H
ATOM	7478	CA	ALA	X	672	57.623	111.904	86.040	1.00	0.00	C
ATOM	7479	HA	ALA	X	672	57.954	112.609	85.277	1.00	0.00	H
ATOM	7480	CB	ALA	X	672	56.201	111.610	85.794	1.00	0.00	C
ATOM	7481	HB1	ALA	X	672	55.609	112.516	85.924	1.00	0.00	H
ATOM	7482	HB2	ALA	X	672	55.984	111.285	84.776	1.00	0.00	H
ATOM	7483	HB3	ALA	X	672	55.807	110.840	86.459	1.00	0.00	H
ATOM	7484	C	ALA	X	672	57.934	112.690	87.394	1.00	0.00	C
ATOM	7485	O	ALA	X	672	57.802	113.947	87.503	1.00	0.00	O
ATOM	7486	N	CYS	X	673	58.383	111.895	88.344	1.00	0.00	N
ATOM	7487	H	CYS	X	673	58.459	110.897	88.205	1.00	0.00	H
ATOM	7488	CA	CYS	X	673	58.881	112.416	89.700	1.00	0.00	C
ATOM	7489	HA	CYS	X	673	58.454	113.392	89.928	1.00	0.00	H
ATOM	7490	CB	CYS	X	673	58.426	111.403	90.759	1.00	0.00	C
ATOM	7491	HB2	CYS	X	673	59.073	110.536	90.887	1.00	0.00	H
ATOM	7492	HB3	CYS	X	673	58.686	111.892	91.698	1.00	0.00	H
ATOM	7493	SG	CYS	X	673	56.789	110.743	90.823	1.00	0.00	S
ATOM	7494	HG	CYS	X	673	56.750	109.736	89.945	1.00	0.00	H
ATOM	7495	C	CYS	X	673	60.401	112.635	89.773	1.00	0.00	C
ATOM	7496	O	CYS	X	673	61.008	112.768	90.831	1.00	0.00	O
ATOM	7497	N	GLN	X	674	61.062	112.695	88.650	1.00	0.00	N
ATOM	7498	H	GLN	X	674	60.481	112.557	87.836	1.00	0.00	H
ATOM	7499	CA	GLN	X	674	62.546	113.026	88.427	1.00	0.00	C
ATOM	7500	HA	GLN	X	674	62.990	113.559	89.268	1.00	0.00	H
ATOM	7501	CB	GLN	X	674	63.327	111.760	88.058	1.00	0.00	C
ATOM	7502	HB2	GLN	X	674	62.821	111.343	87.186	1.00	0.00	H
ATOM	7503	HB3	GLN	X	674	64.367	111.964	87.806	1.00	0.00	H
ATOM	7504	CG	GLN	X	674	63.346	110.827	89.270	1.00	0.00	C
ATOM	7505	HG2	GLN	X	674	62.373	110.436	89.568	1.00	0.00	H
ATOM	7506	HG3	GLN	X	674	63.823	109.882	89.010	1.00	0.00	H
ATOM	7507	CD	GLN	X	674	64.095	111.372	90.467	1.00	0.00	C
ATOM	7508	OE1	GLN	X	674	65.251	111.218	90.669	1.00	0.00	O
ATOM	7509	NE2	GLN	X	674	63.391	111.798	91.468	1.00	0.00	N
ATOM	7510	HE21	GLN	X	674	63.913	112.183	92.242	1.00	0.00	H
ATOM	7511	HE22	GLN	X	674	62.396	111.920	91.345	1.00	0.00	H
ATOM	7512	C	GLN	X	674	62.678	114.067	87.277	1.00	0.00	C
ATOM	7513	O	GLN	X	674	61.801	114.113	86.396	1.00	0.00	O
ATOM	7514	N	ALA	X	675	63.692	114.919	87.331	1.00	0.00	N
ATOM	7515	H	ALA	X	675	64.356	114.803	88.083	1.00	0.00	H
ATOM	7516	CA	ALA	X	675	64.198	115.701	86.222	1.00	0.00	C
ATOM	7517	HA	ALA	X	675	63.370	116.101	85.636	1.00	0.00	H
ATOM	7518	CB	ALA	X	675	65.095	116.849	86.691	1.00	0.00	C
ATOM	7519	HB1	ALA	X	675	65.310	117.508	85.850	1.00	0.00	H
ATOM	7520	HB2	ALA	X	675	64.537	117.464	87.395	1.00	0.00	H
ATOM	7521	HB3	ALA	X	675	66.074	116.582	87.088	1.00	0.00	H
ATOM	7522	C	ALA	X	675	64.890	114.802	85.122	1.00	0.00	C
ATOM	7523	O	ALA	X	675	64.945	115.201	83.968	1.00	0.00	O
ATOM	7524	N	SER	X	676	65.424	113.647	85.525	1.00	0.00	N
ATOM	7525	H	SER	X	676	65.572	113.517	86.516	1.00	0.00	H
ATOM	7526	CA	SER	X	676	66.118	112.697	84.711	1.00	0.00	C
ATOM	7527	HA	SER	X	676	65.816	112.894	83.683	1.00	0.00	H
ATOM	7528	CB	SER	X	676	67.630	112.825	84.870	1.00	0.00	C
ATOM	7529	HB2	SER	X	676	67.868	112.751	85.930	1.00	0.00	H
ATOM	7530	HB3	SER	X	676	68.096	111.990	84.348	1.00	0.00	H
ATOM	7531	OG	SER	X	676	68.016	114.025	84.299	1.00	0.00	O
ATOM	7532	HG	SER	X	676	67.503	114.055	83.487	1.00	0.00	H
ATOM	7533	C	SER	X	676	65.687	111.246	84.967	1.00	0.00	C
ATOM	7534	O	SER	X	676	65.967	110.715	86.020	1.00	0.00	O
ATOM	7535	N	GLU	X	677	64.999	110.587	84.013	1.00	0.00	N
ATOM	7536	H	GLU	X	677	64.650	111.136	83.241	1.00	0.00	H
ATOM	7537	CA	GLU	X	677	64.570	109.117	84.174	1.00	0.00	C
ATOM	7538	HA	GLU	X	677	64.087	108.997	85.144	1.00	0.00	H
ATOM	7539	CB	GLU	X	677	63.606	108.768	83.029	1.00	0.00	C
ATOM	7540	HB2	GLU	X	677	63.073	107.854	83.286	1.00	0.00	H
ATOM	7541	HB3	GLU	X	677	62.821	109.523	83.076	1.00	0.00	H
ATOM	7542	CG	GLU	X	677	64.086	108.686	81.561	1.00	0.00	C

ATOM	7543	HG2	GLU	X	677	63.338	108.978	80.824	1.00	0.00	H
ATOM	7544	HG3	GLU	X	677	64.870	109.430	81.431	1.00	0.00	H
ATOM	7545	CD	GLU	X	677	64.628	107.278	81.233	1.00	0.00	C
ATOM	7546	OE1	GLU	X	677	64.097	106.223	81.571	1.00	0.00	O
ATOM	7547	OE2	GLU	X	677	65.570	107.223	80.418	1.00	0.00	O
ATOM	7548	C	GLU	X	677	65.770	108.112	84.257	1.00	0.00	C
ATOM	7549	O	GLU	X	677	65.572	106.961	84.679	1.00	0.00	O
ATOM	7550	N	ARG	X	678	66.991	108.526	83.923	1.00	0.00	N
ATOM	7551	H	ARG	X	678	67.037	109.481	83.599	1.00	0.00	H
ATOM	7552	CA	ARG	X	678	68.213	107.784	84.120	1.00	0.00	C
ATOM	7553	HA	ARG	X	678	68.117	106.789	83.683	1.00	0.00	H
ATOM	7554	CB	ARG	X	678	69.305	108.402	83.340	1.00	0.00	C
ATOM	7555	HB2	ARG	X	678	69.297	109.477	83.520	1.00	0.00	H
ATOM	7556	HB3	ARG	X	678	70.272	108.035	83.683	1.00	0.00	H
ATOM	7557	CG	ARG	X	678	69.356	108.248	81.784	1.00	0.00	C
ATOM	7558	HG2	ARG	X	678	68.518	108.816	81.379	1.00	0.00	H
ATOM	7559	HG3	ARG	X	678	70.294	108.699	81.465	1.00	0.00	H
ATOM	7560	CD	ARG	X	678	69.337	106.847	81.137	1.00	0.00	C
ATOM	7561	HD2	ARG	X	678	69.712	106.966	80.121	1.00	0.00	H
ATOM	7562	HD3	ARG	X	678	69.991	106.158	81.670	1.00	0.00	H
ATOM	7563	NE	ARG	X	678	68.047	106.193	81.014	1.00	0.00	N
ATOM	7564	HE	ARG	X	678	67.279	106.845	80.925	1.00	0.00	H
ATOM	7565	CZ	ARG	X	678	67.790	104.905	80.931	1.00	0.00	C
ATOM	7566	NH1	ARG	X	678	68.661	103.992	80.631	1.00	0.00	N
ATOM	7567	HH11	ARG	X	678	69.632	104.267	80.580	1.00	0.00	H
ATOM	7568	HH12	ARG	X	678	68.291	103.133	80.247	1.00	0.00	H
ATOM	7569	NH2	ARG	X	678	66.564	104.592	81.034	1.00	0.00	N
ATOM	7570	HH21	ARG	X	678	65.918	105.368	81.048	1.00	0.00	H
ATOM	7571	HH22	ARG	X	678	66.275	103.627	80.958	1.00	0.00	H
ATOM	7572	C	ARG	X	678	68.669	107.584	85.551	1.00	0.00	C
ATOM	7573	O	ARG	X	678	69.418	106.621	85.882	1.00	0.00	O
ATOM	7574	N	SER	X	679	68.117	108.432	86.408	1.00	0.00	N
ATOM	7575	H	SER	X	679	67.442	109.113	86.094	1.00	0.00	H
ATOM	7576	CA	SER	X	679	68.492	108.452	87.821	1.00	0.00	C
ATOM	7577	HA	SER	X	679	69.565	108.417	88.008	1.00	0.00	H
ATOM	7578	CB	SER	X	679	67.720	109.635	88.532	1.00	0.00	C
ATOM	7579	HB2	SER	X	679	68.034	109.611	89.575	1.00	0.00	H
ATOM	7580	HB3	SER	X	679	68.067	110.603	88.172	1.00	0.00	H
ATOM	7581	OG	SER	X	679	66.314	109.544	88.393	1.00	0.00	O
ATOM	7582	HG	SER	X	679	66.137	110.150	87.668	1.00	0.00	H
ATOM	7583	C	SER	X	679	68.013	107.197	88.508	1.00	0.00	C
ATOM	7584	O	SER	X	679	68.637	106.534	89.343	1.00	0.00	O
ATOM	7585	N	LEU	X	680	66.887	106.692	87.978	1.00	0.00	N
ATOM	7586	H	LEU	X	680	66.432	107.298	87.309	1.00	0.00	H
ATOM	7587	CA	LEU	X	680	66.136	105.426	88.266	1.00	0.00	C
ATOM	7588	HA	LEU	X	680	65.875	105.374	89.323	1.00	0.00	H
ATOM	7589	CB	LEU	X	680	64.843	105.344	87.527	1.00	0.00	C
ATOM	7590	HB2	LEU	X	680	65.161	105.477	86.494	1.00	0.00	H
ATOM	7591	HB3	LEU	X	680	64.457	104.324	87.566	1.00	0.00	H
ATOM	7592	CG	LEU	X	680	63.797	106.375	88.130	1.00	0.00	C
ATOM	7593	HG	LEU	X	680	64.273	107.333	88.341	1.00	0.00	H
ATOM	7594	CD1	LEU	X	680	62.709	106.647	87.174	1.00	0.00	C
ATOM	7595	HD11	LEU	X	680	63.229	107.137	86.351	1.00	0.00	H
ATOM	7596	HD12	LEU	X	680	62.165	105.756	86.863	1.00	0.00	H
ATOM	7597	HD13	LEU	X	680	62.037	107.350	87.665	1.00	0.00	H
ATOM	7598	CD2	LEU	X	680	63.026	105.776	89.315	1.00	0.00	C
ATOM	7599	HD21	LEU	X	680	62.516	104.841	89.081	1.00	0.00	H
ATOM	7600	HD22	LEU	X	680	63.734	105.610	90.127	1.00	0.00	H
ATOM	7601	HD23	LEU	X	680	62.281	106.471	89.701	1.00	0.00	H
ATOM	7602	C	LEU	X	680	67.024	104.240	87.848	1.00	0.00	C
ATOM	7603	O	LEU	X	680	67.094	103.250	88.588	1.00	0.00	O
ATOM	7604	N	LEU	X	681	67.740	104.346	86.738	1.00	0.00	N
ATOM	7605	H	LEU	X	681	67.661	105.117	86.089	1.00	0.00	H
ATOM	7606	CA	LEU	X	681	68.664	103.265	86.361	1.00	0.00	C
ATOM	7607	HA	LEU	X	681	68.198	102.296	86.545	1.00	0.00	H
ATOM	7608	CB	LEU	X	681	68.991	103.362	84.827	1.00	0.00	C
ATOM	7609	HB2	LEU	X	681	68.045	103.096	84.355	1.00	0.00	H
ATOM	7610	HB3	LEU	X	681	69.142	104.412	84.577	1.00	0.00	H
ATOM	7611	CG	LEU	X	681	70.080	102.411	84.283	1.00	0.00	C
ATOM	7612	HG	LEU	X	681	71.027	102.573	84.798	1.00	0.00	H
ATOM	7613	CD1	LEU	X	681	69.806	100.900	84.501	1.00	0.00	C
ATOM	7614	HD11	LEU	X	681	70.097	100.454	85.453	1.00	0.00	H
ATOM	7615	HD12	LEU	X	681	68.817	100.744	84.071	1.00	0.00	H
ATOM	7616	HD13	LEU	X	681	70.321	100.372	83.699	1.00	0.00	H
ATOM	7617	CD2	LEU	X	681	70.254	102.557	82.805	1.00	0.00	C
ATOM	7618	HD21	LEU	X	681	71.094	101.984	82.411	1.00	0.00	H
ATOM	7619	HD22	LEU	X	681	69.366	102.153	82.320	1.00	0.00	H
ATOM	7620	HD23	LEU	X	681	70.389	103.603	82.529	1.00	0.00	H
ATOM	7621	C	LEU	X	681	69.847	103.239	87.242	1.00	0.00	C
ATOM	7622	O	LEU	X	681	70.350	102.134	87.539	1.00	0.00	O
ATOM	7623	N	ARG	X	682	70.429	104.350	87.678	1.00	0.00	N
ATOM	7624	H	ARG	X	682	69.878	105.190	87.579	1.00	0.00	H

ATOM	7625	CA	ARG	X	682	71.631	104.380	88.547	1.00	0.00	C
ATOM	7626	HA	ARG	X	682	72.430	104.018	87.899	1.00	0.00	H
ATOM	7627	CB	ARG	X	682	72.009	105.870	88.866	1.00	0.00	C
ATOM	7628	HB2	ARG	X	682	71.828	106.480	87.981	1.00	0.00	H
ATOM	7629	HB3	ARG	X	682	71.318	106.304	89.589	1.00	0.00	H
ATOM	7630	CG	ARG	X	682	73.409	106.151	89.406	1.00	0.00	C
ATOM	7631	HG2	ARG	X	682	73.486	107.113	89.913	1.00	0.00	H
ATOM	7632	HG3	ARG	X	682	73.626	105.451	90.214	1.00	0.00	H
ATOM	7633	CD	ARG	X	682	74.541	106.034	88.354	1.00	0.00	C
ATOM	7634	HD2	ARG	X	682	75.441	106.473	88.784	1.00	0.00	H
ATOM	7635	HD3	ARG	X	682	74.763	104.967	88.312	1.00	0.00	H
ATOM	7636	NE	ARG	X	682	74.202	106.460	87.046	1.00	0.00	N
ATOM	7637	HE	ARG	X	682	73.368	106.133	86.581	1.00	0.00	H
ATOM	7638	CZ	ARG	X	682	75.070	106.934	86.132	1.00	0.00	C
ATOM	7639	NH1	ARG	X	682	76.279	107.191	86.479	1.00	0.00	N
ATOM	7640	HH11	ARG	X	682	76.539	106.975	87.430	1.00	0.00	H
ATOM	7641	HH12	ARG	X	682	76.866	107.442	85.697	1.00	0.00	H
ATOM	7642	NH2	ARG	X	682	74.776	107.106	84.917	1.00	0.00	N
ATOM	7643	HH21	ARG	X	682	73.811	107.056	84.626	1.00	0.00	H
ATOM	7644	HH22	ARG	X	682	75.498	107.226	84.221	1.00	0.00	H
ATOM	7645	C	ARG	X	682	71.543	103.552	89.876	1.00	0.00	C
ATOM	7646	O	ARG	X	682	72.419	102.804	90.322	1.00	0.00	O
ATOM	7647	N	ARG	X	683	70.336	103.704	90.506	1.00	0.00	N
ATOM	7648	H	ARG	X	683	69.798	104.466	90.119	1.00	0.00	H
ATOM	7649	CA	ARG	X	683	69.990	103.105	91.777	1.00	0.00	C
ATOM	7650	HA	ARG	X	683	70.950	103.071	92.291	1.00	0.00	H
ATOM	7651	CB	ARG	X	683	69.007	104.058	92.522	1.00	0.00	C
ATOM	7652	HB2	ARG	X	683	68.282	104.564	91.885	1.00	0.00	H
ATOM	7653	HB3	ARG	X	683	68.510	103.493	93.311	1.00	0.00	H
ATOM	7654	CG	ARG	X	683	69.737	105.289	93.076	1.00	0.00	C
ATOM	7655	HG2	ARG	X	683	70.506	105.067	93.814	1.00	0.00	H
ATOM	7656	HG3	ARG	X	683	70.401	105.750	92.345	1.00	0.00	H
ATOM	7657	CD	ARG	X	683	68.783	106.258	93.674	1.00	0.00	C
ATOM	7658	HD2	ARG	X	683	67.973	106.456	92.973	1.00	0.00	H
ATOM	7659	HD3	ARG	X	683	68.403	105.893	94.628	1.00	0.00	H
ATOM	7660	NE	ARG	X	683	69.413	107.571	93.647	1.00	0.00	N
ATOM	7661	HE	ARG	X	683	69.903	107.827	92.802	1.00	0.00	H
ATOM	7662	CZ	ARG	X	683	69.434	108.573	94.489	1.00	0.00	C
ATOM	7663	NH1	ARG	X	683	68.786	108.619	95.622	1.00	0.00	N
ATOM	7664	HH11	ARG	X	683	68.360	107.781	95.992	1.00	0.00	H
ATOM	7665	HH12	ARG	X	683	68.747	109.582	95.924	1.00	0.00	H
ATOM	7666	NH2	ARG	X	683	69.987	109.643	94.058	1.00	0.00	N
ATOM	7667	HH21	ARG	X	683	70.399	109.620	93.137	1.00	0.00	H
ATOM	7668	HH22	ARG	X	683	69.634	110.524	94.406	1.00	0.00	H
ATOM	7669	C	ARG	X	683	69.423	101.656	91.499	1.00	0.00	C
ATOM	7670	O	ARG	X	683	69.696	100.664	92.191	1.00	0.00	O
ATOM	7671	N	ARG	X	684	68.701	101.413	90.396	1.00	0.00	N
ATOM	7672	H	ARG	X	684	68.572	102.264	89.867	1.00	0.00	H
ATOM	7673	CA	ARG	X	684	68.161	100.093	89.957	1.00	0.00	C
ATOM	7674	HA	ARG	X	684	67.525	99.537	90.647	1.00	0.00	H
ATOM	7675	CB	ARG	X	684	67.266	100.253	88.701	1.00	0.00	C
ATOM	7676	HB2	ARG	X	684	66.368	100.846	88.872	1.00	0.00	H
ATOM	7677	HB3	ARG	X	684	67.724	100.768	87.858	1.00	0.00	H
ATOM	7678	CG	ARG	X	684	66.844	98.917	88.109	1.00	0.00	C
ATOM	7679	HG2	ARG	X	684	67.712	98.277	87.949	1.00	0.00	H
ATOM	7680	HG3	ARG	X	684	66.239	98.385	88.843	1.00	0.00	H
ATOM	7681	CD	ARG	X	684	66.066	99.015	86.793	1.00	0.00	C
ATOM	7682	HD2	ARG	X	684	65.260	98.297	86.645	1.00	0.00	H
ATOM	7683	HD3	ARG	X	684	65.442	99.907	86.813	1.00	0.00	H
ATOM	7684	NE	ARG	X	684	67.011	98.895	85.585	1.00	0.00	N
ATOM	7685	HE	ARG	X	684	68.008	98.776	85.675	1.00	0.00	H
ATOM	7686	CZ	ARG	X	684	66.589	98.820	84.386	1.00	0.00	C
ATOM	7687	NH1	ARG	X	684	65.419	99.124	83.950	1.00	0.00	N
ATOM	7688	HH11	ARG	X	684	64.854	99.654	84.598	1.00	0.00	H
ATOM	7689	HH12	ARG	X	684	65.100	98.947	83.008	1.00	0.00	H
ATOM	7690	NH2	ARG	X	684	67.375	98.317	83.471	1.00	0.00	N
ATOM	7691	HH21	ARG	X	684	68.263	97.934	83.762	1.00	0.00	H
ATOM	7692	HH22	ARG	X	684	67.207	98.352	82.475	1.00	0.00	H
ATOM	7693	C	ARG	X	684	69.348	99.128	89.769	1.00	0.00	C
ATOM	7694	O	ARG	X	684	69.372	98.105	90.489	1.00	0.00	O
ATOM	7695	N	ALA	X	685	70.429	99.542	89.130	1.00	0.00	N
ATOM	7696	H	ALA	X	685	70.486	100.470	88.736	1.00	0.00	H
ATOM	7697	CA	ALA	X	685	71.706	98.746	89.024	1.00	0.00	C
ATOM	7698	HA	ALA	X	685	71.636	97.798	88.490	1.00	0.00	H
ATOM	7699	CB	ALA	X	685	72.667	99.688	88.273	1.00	0.00	C
ATOM	7700	HB1	ALA	X	685	72.582	100.724	88.602	1.00	0.00	H
ATOM	7701	HB2	ALA	X	685	73.678	99.343	88.490	1.00	0.00	H
ATOM	7702	HB3	ALA	X	685	72.431	99.651	87.211	1.00	0.00	H
ATOM	7703	C	ALA	X	685	72.347	98.354	90.407	1.00	0.00	C
ATOM	7704	O	ALA	X	685	72.828	97.164	90.478	1.00	0.00	O
ATOM	7705	N	CYS	X	686	72.359	99.263	91.411	1.00	0.00	N
ATOM	7706	H	CYS	X	686	72.066	100.185	91.122	1.00	0.00	H

ATOM	7707	CA	CYS	X	686	72.714	98.965	92.758	1.00	0.00	C
ATOM	7708	HA	CYS	X	686	73.689	98.490	92.872	1.00	0.00	H
ATOM	7709	CB	CYS	X	686	72.783	100.313	93.518	1.00	0.00	C
ATOM	7710	HB2	CYS	X	686	73.361	101.044	92.952	1.00	0.00	H
ATOM	7711	HB3	CYS	X	686	71.833	100.845	93.550	1.00	0.00	H
ATOM	7712	SG	CYS	X	686	73.502	99.992	95.235	1.00	0.00	S
ATOM	7713	HG	CYS	X	686	74.809	100.078	94.967	1.00	0.00	H
ATOM	7714	C	CYS	X	686	71.733	97.933	93.408	1.00	0.00	C
ATOM	7715	O	CYS	X	686	72.173	96.898	93.892	1.00	0.00	O
ATOM	7716	N	ALA	X	687	70.412	98.196	93.526	1.00	0.00	N
ATOM	7717	H	ALA	X	687	69.973	98.894	92.943	1.00	0.00	H
ATOM	7718	CA	ALA	X	687	69.502	97.270	94.332	1.00	0.00	C
ATOM	7719	HA	ALA	X	687	69.985	97.038	95.282	1.00	0.00	H
ATOM	7720	CB	ALA	X	687	68.208	97.907	94.670	1.00	0.00	C
ATOM	7721	HB1	ALA	X	687	67.737	98.302	93.771	1.00	0.00	H
ATOM	7722	HB2	ALA	X	687	67.422	97.269	95.075	1.00	0.00	H
ATOM	7723	HB3	ALA	X	687	68.307	98.775	95.320	1.00	0.00	H
ATOM	7724	C	ALA	X	687	69.405	95.873	93.563	1.00	0.00	C
ATOM	7725	O	ALA	X	687	69.209	94.800	94.121	1.00	0.00	O
ATOM	7726	N	ARG	X	688	69.559	95.868	92.190	1.00	0.00	N
ATOM	7727	H	ARG	X	688	69.667	96.738	91.689	1.00	0.00	H
ATOM	7728	CA	ARG	X	688	69.563	94.566	91.409	1.00	0.00	C
ATOM	7729	HA	ARG	X	688	68.684	94.020	91.755	1.00	0.00	H
ATOM	7730	CB	ARG	X	688	69.515	94.804	89.939	1.00	0.00	C
ATOM	7731	HB2	ARG	X	688	70.311	95.484	89.633	1.00	0.00	H
ATOM	7732	HB3	ARG	X	688	69.715	93.822	89.508	1.00	0.00	H
ATOM	7733	CG	ARG	X	688	68.115	95.239	89.462	1.00	0.00	C
ATOM	7734	HG2	ARG	X	688	67.455	94.398	89.676	1.00	0.00	H
ATOM	7735	HG3	ARG	X	688	67.744	96.159	89.913	1.00	0.00	H
ATOM	7736	CD	ARG	X	688	68.127	95.335	87.952	1.00	0.00	C
ATOM	7737	HD2	ARG	X	688	68.856	96.112	87.726	1.00	0.00	H
ATOM	7738	HD3	ARG	X	688	68.512	94.382	87.586	1.00	0.00	H
ATOM	7739	NE	ARG	X	688	66.858	95.543	87.277	1.00	0.00	N
ATOM	7740	HE	ARG	X	688	66.152	96.066	87.773	1.00	0.00	H
ATOM	7741	CZ	ARG	X	688	66.477	95.253	86.070	1.00	0.00	C
ATOM	7742	NH1	ARG	X	688	67.319	94.928	85.065	1.00	0.00	N
ATOM	7743	HH11	ARG	X	688	68.258	94.702	85.359	1.00	0.00	H
ATOM	7744	HH12	ARG	X	688	67.010	94.854	84.105	1.00	0.00	H
ATOM	7745	NH2	ARG	X	688	65.199	95.343	85.901	1.00	0.00	N
ATOM	7746	HH21	ARG	X	688	64.689	95.266	86.769	1.00	0.00	H
ATOM	7747	HH22	ARG	X	688	64.830	95.101	84.991	1.00	0.00	H
ATOM	7748	C	ARG	X	688	70.840	93.827	91.779	1.00	0.00	C
ATOM	7749	O	ARG	X	688	70.668	92.621	92.019	1.00	0.00	O
ATOM	7750	N	TRP	X	689	72.002	94.464	91.972	1.00	0.00	N
ATOM	7751	H	TRP	X	689	71.993	95.453	91.770	1.00	0.00	H
ATOM	7752	CA	TRP	X	689	73.177	93.760	92.522	1.00	0.00	C
ATOM	7753	HA	TRP	X	689	73.393	92.919	91.864	1.00	0.00	H
ATOM	7754	CB	TRP	X	689	74.413	94.741	92.507	1.00	0.00	C
ATOM	7755	HB2	TRP	X	689	74.520	95.111	91.488	1.00	0.00	H
ATOM	7756	HB3	TRP	X	689	74.216	95.669	93.044	1.00	0.00	H
ATOM	7757	CG	TRP	X	689	75.774	94.145	92.810	1.00	0.00	C
ATOM	7758	CD1	TRP	X	689	76.731	93.799	91.880	1.00	0.00	C
ATOM	7759	HD1	TRP	X	689	76.554	93.784	90.815	1.00	0.00	H
ATOM	7760	NE1	TRP	X	689	77.746	93.198	92.601	1.00	0.00	N
ATOM	7761	HE1	TRP	X	689	78.503	92.679	92.182	1.00	0.00	H
ATOM	7762	CE2	TRP	X	689	77.598	93.214	93.966	1.00	0.00	C
ATOM	7763	CZ2	TRP	X	689	78.307	92.704	95.015	1.00	0.00	C
ATOM	7764	HZ2	TRP	X	689	79.322	92.372	94.852	1.00	0.00	H
ATOM	7765	CH2	TRP	X	689	77.838	92.915	96.358	1.00	0.00	C
ATOM	7766	HH2	TRP	X	689	78.457	92.472	97.124	1.00	0.00	H
ATOM	7767	CZ3	TRP	X	689	76.582	93.490	96.545	1.00	0.00	C
ATOM	7768	HZ3	TRP	X	689	76.201	93.676	97.538	1.00	0.00	H
ATOM	7769	CE3	TRP	X	689	75.888	93.925	95.488	1.00	0.00	C
ATOM	7770	HE3	TRP	X	689	74.979	94.495	95.609	1.00	0.00	H
ATOM	7771	CD2	TRP	X	689	76.346	93.841	94.123	1.00	0.00	C
ATOM	7772	C	TRP	X	689	72.985	93.228	93.952	1.00	0.00	C
ATOM	7773	O	TRP	X	689	73.276	92.067	94.162	1.00	0.00	O
ATOM	7774	N	CYS	X	690	72.228	93.974	94.777	1.00	0.00	N
ATOM	7775	H	CYS	X	690	72.057	94.929	94.494	1.00	0.00	H
ATOM	7776	CA	CYS	X	690	71.888	93.656	96.192	1.00	0.00	C
ATOM	7777	HA	CYS	X	690	72.825	93.361	96.667	1.00	0.00	H
ATOM	7778	CB	CYS	X	690	71.318	94.859	96.861	1.00	0.00	C
ATOM	7779	HB2	CYS	X	690	70.404	95.139	96.335	1.00	0.00	H
ATOM	7780	HB3	CYS	X	690	71.063	94.603	97.889	1.00	0.00	H
ATOM	7781	SG	CYS	X	690	72.443	96.284	96.915	1.00	0.00	S
ATOM	7782	HG	CYS	X	690	72.297	96.736	95.666	1.00	0.00	H
ATOM	7783	C	CYS	X	690	71.067	92.387	96.389	1.00	0.00	C
ATOM	7784	O	CYS	X	690	71.273	91.653	97.364	1.00	0.00	O
ATOM	7785	N	LEU	X	691	70.196	92.130	95.448	1.00	0.00	N
ATOM	7786	H	LEU	X	691	69.838	92.865	94.855	1.00	0.00	H
ATOM	7787	CA	LEU	X	691	69.484	90.830	95.425	1.00	0.00	C
ATOM	7788	HA	LEU	X	691	69.456	90.466	96.452	1.00	0.00	H

ATOM	7789	CB	LEU	X	691	68.066	91.007	94.844	1.00	0.00	C
ATOM	7790	HB2	LEU	X	691	68.145	91.348	93.811	1.00	0.00	H
ATOM	7791	HB3	LEU	X	691	67.511	90.073	94.785	1.00	0.00	H
ATOM	7792	CG	LEU	X	691	67.195	91.986	95.615	1.00	0.00	C
ATOM	7793	HG	LEU	X	691	67.662	92.971	95.573	1.00	0.00	H
ATOM	7794	CD1	LEU	X	691	65.837	91.981	94.943	1.00	0.00	C
ATOM	7795	HD11	LEU	X	691	65.361	91.001	94.930	1.00	0.00	H
ATOM	7796	HD12	LEU	X	691	65.162	92.657	95.468	1.00	0.00	H
ATOM	7797	HD13	LEU	X	691	65.957	92.286	93.904	1.00	0.00	H
ATOM	7798	CD2	LEU	X	691	66.980	91.607	97.121	1.00	0.00	C
ATOM	7799	HD21	LEU	X	691	66.752	90.542	97.144	1.00	0.00	H
ATOM	7800	HD22	LEU	X	691	67.923	91.838	97.616	1.00	0.00	H
ATOM	7801	HD23	LEU	X	691	66.159	92.207	97.515	1.00	0.00	H
ATOM	7802	C	LEU	X	691	70.094	89.688	94.596	1.00	0.00	C
ATOM	7803	O	LEU	X	691	69.892	88.572	95.027	1.00	0.00	O
ATOM	7804	N	ALA	X	692	70.783	89.794	93.486	1.00	0.00	N
ATOM	7805	H	ALA	X	692	70.769	90.720	93.081	1.00	0.00	H
ATOM	7806	CA	ALA	X	692	71.237	88.712	92.583	1.00	0.00	C
ATOM	7807	HA	ALA	X	692	70.348	88.279	92.123	1.00	0.00	H
ATOM	7808	CB	ALA	X	692	72.008	89.258	91.412	1.00	0.00	C
ATOM	7809	HB1	ALA	X	692	71.338	90.013	91.000	1.00	0.00	H
ATOM	7810	HB2	ALA	X	692	72.906	89.846	91.604	1.00	0.00	H
ATOM	7811	HB3	ALA	X	692	72.218	88.480	90.678	1.00	0.00	H
ATOM	7812	C	ALA	X	692	71.999	87.513	93.151	1.00	0.00	C
ATOM	7813	O	ALA	X	692	71.824	86.416	92.644	1.00	0.00	O
ATOM	7814	N	ARG	X	693	72.782	87.775	94.206	1.00	0.00	N
ATOM	7815	H	ARG	X	693	72.998	88.730	94.455	1.00	0.00	H
ATOM	7816	CA	ARG	X	693	73.316	86.728	95.084	1.00	0.00	C
ATOM	7817	HA	ARG	X	693	72.791	85.864	94.677	1.00	0.00	H
ATOM	7818	CB	ARG	X	693	74.839	86.591	94.768	1.00	0.00	C
ATOM	7819	HB2	ARG	X	693	75.249	87.599	94.845	1.00	0.00	H
ATOM	7820	HB3	ARG	X	693	75.355	85.886	95.418	1.00	0.00	H
ATOM	7821	CG	ARG	X	693	75.186	86.225	93.317	1.00	0.00	C
ATOM	7822	HG2	ARG	X	693	74.797	86.937	92.588	1.00	0.00	H
ATOM	7823	HG3	ARG	X	693	76.268	86.125	93.248	1.00	0.00	H
ATOM	7824	CD	ARG	X	693	74.652	84.874	93.033	1.00	0.00	C
ATOM	7825	HD2	ARG	X	693	75.116	84.159	93.714	1.00	0.00	H
ATOM	7826	HD3	ARG	X	693	73.585	84.772	93.233	1.00	0.00	H
ATOM	7827	NE	ARG	X	693	74.976	84.511	91.673	1.00	0.00	N
ATOM	7828	HE	ARG	X	693	75.934	84.262	91.471	1.00	0.00	H
ATOM	7829	CZ	ARG	X	693	74.123	84.141	90.779	1.00	0.00	C
ATOM	7830	NH1	ARG	X	693	72.861	84.392	90.754	1.00	0.00	N
ATOM	7831	HH11	ARG	X	693	72.415	85.172	91.216	1.00	0.00	H
ATOM	7832	HH12	ARG	X	693	72.349	83.918	90.023	1.00	0.00	H
ATOM	7833	NH2	ARG	X	693	74.526	83.442	89.763	1.00	0.00	N
ATOM	7834	HH21	ARG	X	693	75.535	83.448	89.744	1.00	0.00	H
ATOM	7835	HH22	ARG	X	693	74.007	83.559	88.904	1.00	0.00	H
ATOM	7836	C	ARG	X	693	72.992	86.646	96.628	1.00	0.00	C
ATOM	7837	O	ARG	X	693	73.626	85.992	97.413	1.00	0.00	O
ATOM	7838	N	SER	X	694	71.872	87.295	97.002	1.00	0.00	N
ATOM	7839	H	SER	X	694	71.346	87.568	96.184	1.00	0.00	H
ATOM	7840	CA	SER	X	694	71.327	87.539	98.333	1.00	0.00	C
ATOM	7841	HA	SER	X	694	72.132	88.007	98.898	1.00	0.00	H
ATOM	7842	CB	SER	X	694	70.219	88.556	98.395	1.00	0.00	C
ATOM	7843	HB2	SER	X	694	69.917	88.835	99.405	1.00	0.00	H
ATOM	7844	HB3	SER	X	694	70.612	89.493	97.999	1.00	0.00	H
ATOM	7845	OG	SER	X	694	69.090	88.136	97.648	1.00	0.00	O
ATOM	7846	HG	SER	X	694	69.240	88.303	96.713	1.00	0.00	H
ATOM	7847	C	SER	X	694	70.954	86.278	99.061	1.00	0.00	C
ATOM	7848	O	SER	X	694	71.489	86.086	100.144	1.00	0.00	O
ATOM	7849	N	LEU	X	695	70.182	85.318	98.473	1.00	0.00	N
ATOM	7850	H	LEU	X	695	69.785	85.587	97.584	1.00	0.00	H
ATOM	7851	CA	LEU	X	695	69.835	83.982	98.940	1.00	0.00	C
ATOM	7852	HA	LEU	X	695	69.343	84.211	99.886	1.00	0.00	H
ATOM	7853	CB	LEU	X	695	68.935	83.359	97.898	1.00	0.00	C
ATOM	7854	HB2	LEU	X	695	69.557	83.303	97.004	1.00	0.00	H
ATOM	7855	HB3	LEU	X	695	68.583	82.381	98.228	1.00	0.00	H
ATOM	7856	CG	LEU	X	695	67.678	84.179	97.481	1.00	0.00	C
ATOM	7857	HG	LEU	X	695	67.988	85.124	97.036	1.00	0.00	H
ATOM	7858	CD1	LEU	X	695	66.805	83.458	96.403	1.00	0.00	C
ATOM	7859	HD11	LEU	X	695	67.376	83.178	95.518	1.00	0.00	H
ATOM	7860	HD12	LEU	X	695	66.494	82.516	96.857	1.00	0.00	H
ATOM	7861	HD13	LEU	X	695	65.895	84.001	96.142	1.00	0.00	H
ATOM	7862	CD2	LEU	X	695	66.719	84.564	98.701	1.00	0.00	C
ATOM	7863	HD21	LEU	X	695	67.209	85.209	99.428	1.00	0.00	H
ATOM	7864	HD22	LEU	X	695	65.765	85.063	98.521	1.00	0.00	H
ATOM	7865	HD23	LEU	X	695	66.465	83.610	99.162	1.00	0.00	H
ATOM	7866	C	LEU	X	695	71.079	83.159	99.222	1.00	0.00	C
ATOM	7867	O	LEU	X	695	71.144	82.320	100.147	1.00	0.00	O
ATOM	7868	N	HIE	X	696	72.101	83.358	98.445	1.00	0.00	N
ATOM	7869	H	HIE	X	696	71.855	84.118	97.828	1.00	0.00	H
ATOM	7870	CA	HIE	X	696	73.405	82.723	98.553	1.00	0.00	C

ATOM	7871	HA	HIE	X	696	73.178	81.658	98.614	1.00	0.00	H
ATOM	7872	CB	HIE	X	696	74.231	82.789	97.236	1.00	0.00	C
ATOM	7873	HB2	HIE	X	696	74.545	83.822	97.087	1.00	0.00	H
ATOM	7874	HB3	HIE	X	696	75.048	82.083	97.377	1.00	0.00	H
ATOM	7875	CG	HIE	X	696	73.640	82.497	95.941	1.00	0.00	C
ATOM	7876	ND1	HIE	X	696	72.632	83.247	95.304	1.00	0.00	N
ATOM	7877	CE1	HIE	X	696	72.335	82.565	94.206	1.00	0.00	C
ATOM	7878	HE1	HIE	X	696	71.556	82.892	93.533	1.00	0.00	H
ATOM	7879	NE2	HIE	X	696	73.078	81.456	94.082	1.00	0.00	N
ATOM	7880	HE2	HIE	X	696	72.941	80.820	93.308	1.00	0.00	H
ATOM	7881	CD2	HIE	X	696	73.859	81.382	95.192	1.00	0.00	C
ATOM	7882	HD2	HIE	X	696	74.635	80.638	95.303	1.00	0.00	H
ATOM	7883	C	HIE	X	696	74.235	83.124	99.747	1.00	0.00	C
ATOM	7884	O	HIE	X	696	74.651	82.286	100.556	1.00	0.00	O
ATOM	7885	N	LYS	X	697	74.495	84.401	99.854	1.00	0.00	N
ATOM	7886	H	LYS	X	697	74.266	84.929	99.024	1.00	0.00	H
ATOM	7887	CA	LYS	X	697	75.078	85.122	101.001	1.00	0.00	C
ATOM	7888	HA	LYS	X	697	76.124	84.859	101.162	1.00	0.00	H
ATOM	7889	CB	LYS	X	697	74.894	86.682	100.661	1.00	0.00	C
ATOM	7890	HB2	LYS	X	697	75.555	86.879	99.816	1.00	0.00	H
ATOM	7891	HB3	LYS	X	697	73.877	86.984	100.412	1.00	0.00	H
ATOM	7892	CG	LYS	X	697	75.376	87.574	101.823	1.00	0.00	C
ATOM	7893	HG2	LYS	X	697	76.070	86.959	102.395	1.00	0.00	H
ATOM	7894	HG3	LYS	X	697	76.026	88.393	101.514	1.00	0.00	H
ATOM	7895	CD	LYS	X	697	74.288	88.064	102.755	1.00	0.00	C
ATOM	7896	HD2	LYS	X	697	73.440	88.383	102.147	1.00	0.00	H
ATOM	7897	HD3	LYS	X	697	73.816	87.224	103.264	1.00	0.00	H
ATOM	7898	CE	LYS	X	697	74.849	89.086	103.778	1.00	0.00	C
ATOM	7899	HE2	LYS	X	697	75.704	88.587	104.236	1.00	0.00	H
ATOM	7900	HE3	LYS	X	697	75.238	90.009	103.352	1.00	0.00	H
ATOM	7901	NZ	LYS	X	697	73.785	89.378	104.762	1.00	0.00	N
ATOM	7902	HZ1	LYS	X	697	73.557	88.452	105.099	1.00	0.00	H
ATOM	7903	HZ2	LYS	X	697	74.204	89.974	105.459	1.00	0.00	H
ATOM	7904	HZ3	LYS	X	697	72.885	89.692	104.430	1.00	0.00	H
ATOM	7905	C	LYS	X	697	74.270	84.807	102.281	1.00	0.00	C
ATOM	7906	O	LYS	X	697	74.912	84.596	103.302	1.00	0.00	O
ATOM	7907	N	HIE	X	698	72.962	84.575	102.296	1.00	0.00	N
ATOM	7908	H	HIE	X	698	72.526	84.713	101.395	1.00	0.00	H
ATOM	7909	CA	HIE	X	698	72.130	84.194	103.473	1.00	0.00	C
ATOM	7910	HA	HIE	X	698	72.499	84.758	104.329	1.00	0.00	H
ATOM	7911	CB	HIE	X	698	70.676	84.609	103.235	1.00	0.00	C
ATOM	7912	HB2	HIE	X	698	70.769	85.634	102.874	1.00	0.00	H
ATOM	7913	HB3	HIE	X	698	70.231	83.994	102.454	1.00	0.00	H
ATOM	7914	CG	HIE	X	698	69.792	84.517	104.440	1.00	0.00	C
ATOM	7915	ND1	HIE	X	698	69.369	83.313	105.055	1.00	0.00	N
ATOM	7916	CE1	HIE	X	698	68.727	83.749	106.237	1.00	0.00	C
ATOM	7917	HE1	HIE	X	698	68.139	83.126	106.894	1.00	0.00	H
ATOM	7918	NE2	HIE	X	698	68.828	85.051	106.296	1.00	0.00	N
ATOM	7919	HE2	HIE	X	698	68.319	85.594	106.980	1.00	0.00	H
ATOM	7920	CD2	HIE	X	698	69.556	85.567	105.275	1.00	0.00	C
ATOM	7921	HD2	HIE	X	698	69.861	86.571	105.016	1.00	0.00	H
ATOM	7922	C	HIE	X	698	72.281	82.664	103.676	1.00	0.00	C
ATOM	7923	O	HIE	X	698	72.885	82.251	104.665	1.00	0.00	O
ATOM	7924	N	PHE	X	699	71.965	81.797	102.745	1.00	0.00	N
ATOM	7925	H	PHE	X	699	71.319	82.113	102.036	1.00	0.00	H
ATOM	7926	CA	PHE	X	699	72.034	80.340	102.835	1.00	0.00	C
ATOM	7927	HA	PHE	X	699	71.321	80.132	103.633	1.00	0.00	H
ATOM	7928	CB	PHE	X	699	71.391	79.642	101.613	1.00	0.00	C
ATOM	7929	HB2	PHE	X	699	70.579	80.307	101.327	1.00	0.00	H
ATOM	7930	HB3	PHE	X	699	72.139	79.660	100.821	1.00	0.00	H
ATOM	7931	CG	PHE	X	699	70.881	78.237	101.806	1.00	0.00	C
ATOM	7932	CD1	PHE	X	699	69.682	77.940	102.589	1.00	0.00	C
ATOM	7933	HD1	PHE	X	699	69.006	78.708	102.934	1.00	0.00	H
ATOM	7934	CE1	PHE	X	699	69.337	76.623	102.819	1.00	0.00	C
ATOM	7935	HE1	PHE	X	699	68.616	76.377	103.584	1.00	0.00	H
ATOM	7936	CZ	PHE	X	699	70.142	75.622	102.280	1.00	0.00	C
ATOM	7937	HZ	PHE	X	699	69.974	74.594	102.564	1.00	0.00	H
ATOM	7938	CE2	PHE	X	699	71.269	75.886	101.405	1.00	0.00	C
ATOM	7939	HE2	PHE	X	699	71.934	75.146	100.985	1.00	0.00	H
ATOM	7940	CD2	PHE	X	699	71.644	77.182	101.168	1.00	0.00	C
ATOM	7941	HD2	PHE	X	699	72.502	77.425	100.559	1.00	0.00	H
ATOM	7942	C	PHE	X	699	73.395	79.864	103.346	1.00	0.00	C
ATOM	7943	O	PHE	X	699	73.432	79.040	104.254	1.00	0.00	O
ATOM	7944	N	ARG	X	700	74.524	80.275	102.698	1.00	0.00	N
ATOM	7945	H	ARG	X	700	74.512	81.002	101.995	1.00	0.00	H
ATOM	7946	CA	ARG	X	700	75.900	79.937	103.091	1.00	0.00	C
ATOM	7947	HA	ARG	X	700	75.944	78.851	103.013	1.00	0.00	H
ATOM	7948	CB	ARG	X	700	76.922	80.538	102.164	1.00	0.00	C
ATOM	7949	HB2	ARG	X	700	76.750	81.615	102.121	1.00	0.00	H
ATOM	7950	HB3	ARG	X	700	77.967	80.383	102.430	1.00	0.00	H
ATOM	7951	CG	ARG	X	700	76.627	79.894	100.872	1.00	0.00	C
ATOM	7952	HG2	ARG	X	700	76.767	78.814	100.933	1.00	0.00	H

ATOM	7953	HG3	ARG	X	700	75.584	79.985	100.569	1.00	0.00	H
ATOM	7954	CD	ARG	X	700	77.485	80.555	99.836	1.00	0.00	C
ATOM	7955	HD2	ARG	X	700	77.179	81.599	99.763	1.00	0.00	H
ATOM	7956	HD3	ARG	X	700	78.548	80.477	100.067	1.00	0.00	H
ATOM	7957	NE	ARG	X	700	77.219	79.856	98.540	1.00	0.00	N
ATOM	7958	HE	ARG	X	700	76.958	78.880	98.531	1.00	0.00	H
ATOM	7959	CZ	ARG	X	700	77.367	80.327	97.327	1.00	0.00	C
ATOM	7960	NH1	ARG	X	700	77.655	81.547	97.066	1.00	0.00	N
ATOM	7961	HH11	ARG	X	700	77.821	82.156	97.854	1.00	0.00	H
ATOM	7962	HH12	ARG	X	700	77.692	82.073	96.205	1.00	0.00	H
ATOM	7963	NH2	ARG	X	700	77.060	79.611	96.330	1.00	0.00	N
ATOM	7964	HH21	ARG	X	700	76.823	78.631	96.393	1.00	0.00	H
ATOM	7965	HH22	ARG	X	700	77.303	79.982	95.423	1.00	0.00	H
ATOM	7966	C	ARG	X	700	76.198	80.252	104.550	1.00	0.00	C
ATOM	7967	O	ARG	X	700	76.987	79.554	105.140	1.00	0.00	O
ATOM	7968	N	SER	X	701	75.588	81.270	105.119	1.00	0.00	N
ATOM	7969	H	SER	X	701	74.855	81.764	104.627	1.00	0.00	H
ATOM	7970	CA	SER	X	701	75.854	81.818	106.492	1.00	0.00	C
ATOM	7971	HA	SER	X	701	76.903	81.576	106.663	1.00	0.00	H
ATOM	7972	CB	SER	X	701	75.763	83.366	106.539	1.00	0.00	C
ATOM	7973	HB2	SER	X	701	74.725	83.701	106.541	1.00	0.00	H
ATOM	7974	HB3	SER	X	701	76.209	83.653	107.491	1.00	0.00	H
ATOM	7975	OG	SER	X	701	76.532	84.012	105.539	1.00	0.00	O
ATOM	7976	HG	SER	X	701	75.850	84.138	104.875	1.00	0.00	H
ATOM	7977	C	SER	X	701	75.068	81.157	107.642	1.00	0.00	C
ATOM	7978	O	SER	X	701	75.220	81.682	108.714	1.00	0.00	O
ATOM	7979	N	ILE	X	702	74.254	80.094	107.431	1.00	0.00	N
ATOM	7980	H	ILE	X	702	74.116	79.735	106.497	1.00	0.00	H
ATOM	7981	CA	ILE	X	702	73.190	79.721	108.399	1.00	0.00	C
ATOM	7982	HA	ILE	X	702	72.815	80.697	108.705	1.00	0.00	H
ATOM	7983	CB	ILE	X	702	71.922	78.991	107.829	1.00	0.00	C
ATOM	7984	HB	ILE	X	702	72.338	78.199	107.206	1.00	0.00	H
ATOM	7985	CG2	ILE	X	702	71.079	78.472	109.007	1.00	0.00	C
ATOM	7986	HG21	ILE	X	702	70.198	77.869	108.787	1.00	0.00	H
ATOM	7987	HG22	ILE	X	702	71.761	77.833	109.569	1.00	0.00	H
ATOM	7988	HG23	ILE	X	702	70.742	79.303	109.629	1.00	0.00	H
ATOM	7989	CG1	ILE	X	702	71.171	79.975	106.906	1.00	0.00	C
ATOM	7990	HG12	ILE	X	702	71.185	80.947	107.398	1.00	0.00	H
ATOM	7991	HG13	ILE	X	702	71.619	80.135	105.926	1.00	0.00	H
ATOM	7992	CD1	ILE	X	702	69.683	79.710	106.619	1.00	0.00	C
ATOM	7993	HD11	ILE	X	702	69.048	79.792	107.501	1.00	0.00	H
ATOM	7994	HD12	ILE	X	702	69.409	80.368	105.793	1.00	0.00	H
ATOM	7995	HD13	ILE	X	702	69.521	78.664	106.357	1.00	0.00	H
ATOM	7996	C	ILE	X	702	73.936	78.936	109.548	1.00	0.00	C
ATOM	7997	O	ILE	X	702	74.470	77.898	109.234	1.00	0.00	O
ATOM	7998	N	PRO	X	703	73.947	79.430	110.863	1.00	0.00	N
ATOM	7999	CD	PRO	X	703	73.274	80.629	111.296	1.00	0.00	C
ATOM	8000	HD2	PRO	X	703	72.243	80.377	111.047	1.00	0.00	H
ATOM	8001	HD3	PRO	X	703	73.677	81.445	110.696	1.00	0.00	H
ATOM	8002	CG	PRO	X	703	73.584	80.829	112.776	1.00	0.00	C
ATOM	8003	HG2	PRO	X	703	72.716	81.171	113.338	1.00	0.00	H
ATOM	8004	HG3	PRO	X	703	74.429	81.504	112.919	1.00	0.00	H
ATOM	8005	CB	PRO	X	703	73.974	79.435	113.211	1.00	0.00	C
ATOM	8006	HB2	PRO	X	703	73.181	78.761	113.536	1.00	0.00	H
ATOM	8007	HB3	PRO	X	703	74.711	79.406	114.013	1.00	0.00	H
ATOM	8008	CA	PRO	X	703	74.610	78.762	111.966	1.00	0.00	C
ATOM	8009	HA	PRO	X	703	75.683	78.859	111.798	1.00	0.00	H
ATOM	8010	C	PRO	X	703	74.142	77.334	112.108	1.00	0.00	C
ATOM	8011	O	PRO	X	703	72.968	76.996	111.855	1.00	0.00	O
ATOM	8012	N	PRO	X	704	74.955	76.370	112.644	1.00	0.00	N
ATOM	8013	CD	PRO	X	704	76.417	76.465	112.958	1.00	0.00	C
ATOM	8014	HD2	PRO	X	704	76.554	76.754	113.999	1.00	0.00	H
ATOM	8015	HD3	PRO	X	704	76.928	77.129	112.260	1.00	0.00	H
ATOM	8016	CG	PRO	X	704	76.976	75.074	112.775	1.00	0.00	C
ATOM	8017	HG2	PRO	X	704	77.698	74.833	113.557	1.00	0.00	H
ATOM	8018	HG3	PRO	X	704	77.450	74.992	111.798	1.00	0.00	H
ATOM	8019	CB	PRO	X	704	75.711	74.215	112.962	1.00	0.00	C
ATOM	8020	HB2	PRO	X	704	75.656	73.956	114.020	1.00	0.00	H
ATOM	8021	HB3	PRO	X	704	75.792	73.263	112.437	1.00	0.00	H
ATOM	8022	CA	PRO	X	704	74.517	74.974	112.525	1.00	0.00	C
ATOM	8023	HA	PRO	X	704	74.299	74.826	111.467	1.00	0.00	H
ATOM	8024	C	PRO	X	704	73.320	74.383	113.286	1.00	0.00	C
ATOM	8025	O	PRO	X	704	72.617	73.516	112.803	1.00	0.00	O
ATOM	8026	N	ALA	X	705	73.067	74.781	114.525	1.00	0.00	N
ATOM	8027	H	ALA	X	705	73.795	75.300	114.996	1.00	0.00	H
ATOM	8028	CA	ALA	X	705	72.027	74.223	115.339	1.00	0.00	C
ATOM	8029	HA	ALA	X	705	72.026	73.144	115.188	1.00	0.00	H
ATOM	8030	CB	ALA	X	705	72.394	74.655	116.750	1.00	0.00	C
ATOM	8031	HB1	ALA	X	705	71.805	74.122	117.497	1.00	0.00	H
ATOM	8032	HB2	ALA	X	705	73.434	74.376	116.921	1.00	0.00	H
ATOM	8033	HB3	ALA	X	705	72.318	75.740	116.808	1.00	0.00	H
ATOM	8034	C	ALA	X	705	70.610	74.805	114.885	1.00	0.00	C

ATOM	8035	O	ALA	X	705	69.622	74.108	115.117	1.00	0.00	O
ATOM	8036	N	VAL	X	706	70.608	75.991	114.245	1.00	0.00	N
ATOM	8037	H	VAL	X	706	71.526	76.364	114.050	1.00	0.00	H
ATOM	8038	CA	VAL	X	706	69.493	76.943	113.911	1.00	0.00	C
ATOM	8039	HA	VAL	X	706	68.953	77.096	114.846	1.00	0.00	H
ATOM	8040	CB	VAL	X	706	70.020	78.282	113.511	1.00	0.00	C
ATOM	8041	HB	VAL	X	706	70.789	78.128	112.754	1.00	0.00	H
ATOM	8042	CG1	VAL	X	706	68.952	79.240	112.910	1.00	0.00	C
ATOM	8043	HG11	VAL	X	706	68.192	79.397	113.675	1.00	0.00	H
ATOM	8044	HG12	VAL	X	706	69.498	80.120	112.569	1.00	0.00	H
ATOM	8045	HG13	VAL	X	706	68.498	78.774	112.035	1.00	0.00	H
ATOM	8046	CG2	VAL	X	706	70.734	78.991	114.676	1.00	0.00	C
ATOM	8047	HG21	VAL	X	706	71.512	78.397	115.155	1.00	0.00	H
ATOM	8048	HG22	VAL	X	706	71.355	79.840	114.386	1.00	0.00	H
ATOM	8049	HG23	VAL	X	706	69.998	79.276	115.427	1.00	0.00	H
ATOM	8050	C	VAL	X	706	68.473	76.276	112.945	1.00	0.00	C
ATOM	8051	O	VAL	X	706	67.216	76.377	113.236	1.00	0.00	O
ATOM	8052	N	PRO	X	707	68.835	75.534	111.858	1.00	0.00	N
ATOM	8053	CD	PRO	X	707	70.103	75.573	111.207	1.00	0.00	C
ATOM	8054	HD2	PRO	X	707	70.842	75.069	111.830	1.00	0.00	H
ATOM	8055	HD3	PRO	X	707	70.517	76.516	110.851	1.00	0.00	H
ATOM	8056	CG	PRO	X	707	69.901	74.749	109.939	1.00	0.00	C
ATOM	8057	HG2	PRO	X	707	70.850	74.262	109.710	1.00	0.00	H
ATOM	8058	HG3	PRO	X	707	69.624	75.447	109.151	1.00	0.00	H
ATOM	8059	CB	PRO	X	707	68.815	73.768	110.260	1.00	0.00	C
ATOM	8060	HB2	PRO	X	707	69.221	72.933	110.831	1.00	0.00	H
ATOM	8061	HB3	PRO	X	707	68.215	73.533	109.380	1.00	0.00	H
ATOM	8062	CA	PRO	X	707	67.898	74.646	111.143	1.00	0.00	C
ATOM	8063	HA	PRO	X	707	67.218	75.162	110.465	1.00	0.00	H
ATOM	8064	C	PRO	X	707	67.078	73.719	111.978	1.00	0.00	C
ATOM	8065	O	PRO	X	707	65.878	73.508	111.756	1.00	0.00	O
ATOM	8066	N	GLY	X	708	67.580	73.230	113.143	1.00	0.00	N
ATOM	8067	H	GLY	X	708	68.520	73.475	113.416	1.00	0.00	H
ATOM	8068	CA	GLY	X	708	67.012	72.350	114.164	1.00	0.00	C
ATOM	8069	HA2	GLY	X	708	66.553	71.549	113.586	1.00	0.00	H
ATOM	8070	HA3	GLY	X	708	67.732	71.808	114.778	1.00	0.00	H
ATOM	8071	C	GLY	X	708	66.030	72.959	115.202	1.00	0.00	C
ATOM	8072	O	GLY	X	708	65.406	72.235	115.981	1.00	0.00	O
ATOM	8073	N	GLU	X	709	65.902	74.286	115.224	1.00	0.00	N
ATOM	8074	H	GLU	X	709	66.362	74.773	114.467	1.00	0.00	H
ATOM	8075	CA	GLU	X	709	65.009	75.090	116.036	1.00	0.00	C
ATOM	8076	HA	GLU	X	709	65.378	74.926	117.048	1.00	0.00	H
ATOM	8077	CB	GLU	X	709	65.226	76.612	115.653	1.00	0.00	C
ATOM	8078	HB2	GLU	X	709	66.275	76.852	115.831	1.00	0.00	H
ATOM	8079	HB3	GLU	X	709	65.058	76.821	114.596	1.00	0.00	H
ATOM	8080	CG	GLU	X	709	64.493	77.680	116.538	1.00	0.00	C
ATOM	8081	HG2	GLU	X	709	64.921	78.669	116.372	1.00	0.00	H
ATOM	8082	HG3	GLU	X	709	63.428	77.622	116.314	1.00	0.00	H
ATOM	8083	CD	GLU	X	709	64.710	77.357	118.024	1.00	0.00	C
ATOM	8084	OE1	GLU	X	709	65.880	77.345	118.447	1.00	0.00	O
ATOM	8085	OE2	GLU	X	709	63.731	77.024	118.738	1.00	0.00	O
ATOM	8086	C	GLU	X	709	63.564	74.565	116.026	1.00	0.00	C
ATOM	8087	O	GLU	X	709	63.047	73.959	115.029	1.00	0.00	O
ATOM	8088	N	ALA	X	710	62.772	74.926	117.067	1.00	0.00	N
ATOM	8089	H	ALA	X	710	63.137	75.455	117.847	1.00	0.00	H
ATOM	8090	CA	ALA	X	710	61.336	74.461	117.150	1.00	0.00	C
ATOM	8091	HA	ALA	X	710	60.957	74.142	116.179	1.00	0.00	H
ATOM	8092	CB	ALA	X	710	61.415	73.215	118.024	1.00	0.00	C
ATOM	8093	HB1	ALA	X	710	61.708	73.444	119.050	1.00	0.00	H
ATOM	8094	HB2	ALA	X	710	60.466	72.680	118.010	1.00	0.00	H
ATOM	8095	HB3	ALA	X	710	62.118	72.490	117.615	1.00	0.00	H
ATOM	8096	C	ALA	X	710	60.342	75.551	117.667	1.00	0.00	C
ATOM	8097	O	ALA	X	710	59.129	75.281	117.550	1.00	0.00	O
ATOM	8098	N	LYS	X	711	60.712	76.709	118.107	1.00	0.00	N
ATOM	8099	H	LYS	X	711	61.705	76.890	118.101	1.00	0.00	H
ATOM	8100	CA	LYS	X	711	59.854	77.683	118.768	1.00	0.00	C
ATOM	8101	HA	LYS	X	711	59.010	77.824	118.092	1.00	0.00	H
ATOM	8102	CB	LYS	X	711	59.494	77.173	120.182	1.00	0.00	C
ATOM	8103	HB2	LYS	X	711	59.299	76.104	120.109	1.00	0.00	H
ATOM	8104	HB3	LYS	X	711	60.381	77.231	120.812	1.00	0.00	H
ATOM	8105	CG	LYS	X	711	58.309	77.779	120.825	1.00	0.00	C
ATOM	8106	HG2	LYS	X	711	58.490	78.801	121.156	1.00	0.00	H
ATOM	8107	HG3	LYS	X	711	57.442	77.762	120.162	1.00	0.00	H
ATOM	8108	CD	LYS	X	711	57.966	76.902	122.036	1.00	0.00	C
ATOM	8109	HD2	LYS	X	711	57.682	75.906	121.699	1.00	0.00	H
ATOM	8110	HD3	LYS	X	711	58.836	76.916	122.692	1.00	0.00	H
ATOM	8111	CE	LYS	X	711	56.867	77.558	122.815	1.00	0.00	C
ATOM	8112	HE2	LYS	X	711	57.139	78.565	123.129	1.00	0.00	H
ATOM	8113	HE3	LYS	X	711	56.045	77.632	122.105	1.00	0.00	H
ATOM	8114	NZ	LYS	X	711	56.275	76.708	123.900	1.00	0.00	N
ATOM	8115	HZ1	LYS	X	711	56.432	75.740	123.650	1.00	0.00	H
ATOM	8116	HZ2	LYS	X	711	56.763	76.837	124.774	1.00	0.00	H

ATOM	8117	HZ3	LYS	X	711	55.265	76.716	123.910	1.00	0.00	H
ATOM	8118	C	LYS	X	711	60.517	79.090	119.003	1.00	0.00	C
ATOM	8119	O	LYS	X	711	59.877	80.109	118.660	1.00	0.00	O
ATOM	8120	N	SER	X	712	61.813	79.122	119.332	1.00	0.00	N
ATOM	8121	H	SER	X	712	62.360	78.279	119.438	1.00	0.00	H
ATOM	8122	CA	SER	X	712	62.556	80.307	119.385	1.00	0.00	C
ATOM	8123	HA	SER	X	712	61.949	81.065	119.879	1.00	0.00	H
ATOM	8124	CB	SER	X	712	63.905	80.036	120.160	1.00	0.00	C
ATOM	8125	HB2	SER	X	712	63.936	79.164	120.814	1.00	0.00	H
ATOM	8126	HB3	SER	X	712	64.700	79.780	119.460	1.00	0.00	H
ATOM	8127	OG	SER	X	712	64.177	81.334	120.722	1.00	0.00	O
ATOM	8128	HG	SER	X	712	64.624	81.237	121.566	1.00	0.00	H
ATOM	8129	C	SER	X	712	62.848	80.857	118.017	1.00	0.00	C
ATOM	8130	O	SER	X	712	62.661	80.238	116.955	1.00	0.00	O
ATOM	8131	N	MET	X	713	63.388	82.073	117.955	1.00	0.00	N
ATOM	8132	H	MET	X	713	63.330	82.516	118.861	1.00	0.00	H
ATOM	8133	CA	MET	X	713	63.679	82.696	116.667	1.00	0.00	C
ATOM	8134	HA	MET	X	713	62.761	82.690	116.080	1.00	0.00	H
ATOM	8135	CB	MET	X	713	64.036	84.170	116.893	1.00	0.00	C
ATOM	8136	HB2	MET	X	713	64.071	84.755	115.975	1.00	0.00	H
ATOM	8137	HB3	MET	X	713	63.384	84.734	117.560	1.00	0.00	H
ATOM	8138	CG	MET	X	713	65.421	84.368	117.370	1.00	0.00	C
ATOM	8139	HG2	MET	X	713	65.646	83.772	118.254	1.00	0.00	H
ATOM	8140	HG3	MET	X	713	66.148	84.009	116.641	1.00	0.00	H
ATOM	8141	SD	MET	X	713	65.640	86.146	117.650	1.00	0.00	S
ATOM	8142	CE	MET	X	713	65.835	86.832	115.942	1.00	0.00	C
ATOM	8143	HE1	MET	X	713	66.499	86.137	115.429	1.00	0.00	H
ATOM	8144	HE2	MET	X	713	64.850	86.822	115.474	1.00	0.00	H
ATOM	8145	HE3	MET	X	713	66.237	87.842	115.864	1.00	0.00	H
ATOM	8146	C	MET	X	713	64.715	81.931	115.817	1.00	0.00	C
ATOM	8147	O	MET	X	713	65.733	81.313	116.297	1.00	0.00	O
ATOM	8148	N	HIE	X	714	64.622	82.151	114.519	1.00	0.00	N
ATOM	8149	H	HIE	X	714	63.961	82.830	114.171	1.00	0.00	H
ATOM	8150	CA	HIE	X	714	65.474	81.404	113.510	1.00	0.00	C
ATOM	8151	HA	HIE	X	714	66.472	81.280	113.929	1.00	0.00	H
ATOM	8152	CB	HIE	X	714	64.963	79.978	113.231	1.00	0.00	C
ATOM	8153	HB2	HIE	X	714	65.532	79.525	112.419	1.00	0.00	H
ATOM	8154	HB3	HIE	X	714	65.068	79.328	114.100	1.00	0.00	H
ATOM	8155	CG	HIE	X	714	63.546	79.897	112.699	1.00	0.00	C
ATOM	8156	ND1	HIE	X	714	63.197	79.768	111.357	1.00	0.00	N
ATOM	8157	CE1	HIE	X	714	61.863	79.868	111.301	1.00	0.00	C
ATOM	8158	HE1	HIE	X	714	61.300	79.695	110.395	1.00	0.00	H
ATOM	8159	NE2	HIE	X	714	61.295	80.029	112.504	1.00	0.00	N
ATOM	8160	HE2	HIE	X	714	60.303	80.039	112.694	1.00	0.00	H
ATOM	8161	CD2	HIE	X	714	62.344	80.013	113.407	1.00	0.00	C
ATOM	8162	HD2	HIE	X	714	62.252	79.850	114.472	1.00	0.00	H
ATOM	8163	C	HIE	X	714	65.659	82.248	112.226	1.00	0.00	C
ATOM	8164	O	HIE	X	714	65.033	83.291	111.999	1.00	0.00	O
ATOM	8165	N	ALA	X	715	66.427	81.744	111.287	1.00	0.00	N
ATOM	8166	H	ALA	X	715	66.892	80.865	111.465	1.00	0.00	H
ATOM	8167	CA	ALA	X	715	66.906	82.545	110.090	1.00	0.00	C
ATOM	8168	HA	ALA	X	715	66.872	83.604	110.343	1.00	0.00	H
ATOM	8169	CB	ALA	X	715	68.375	82.161	109.769	1.00	0.00	C
ATOM	8170	HB1	ALA	X	715	68.935	82.070	110.701	1.00	0.00	H
ATOM	8171	HB2	ALA	X	715	68.388	81.303	109.098	1.00	0.00	H
ATOM	8172	HB3	ALA	X	715	68.888	82.941	109.206	1.00	0.00	H
ATOM	8173	C	ALA	X	715	65.963	82.592	108.845	1.00	0.00	C
ATOM	8174	O	ALA	X	715	66.115	83.524	108.050	1.00	0.00	O
ATOM	8175	N	MET	X	716	65.021	81.638	108.684	1.00	0.00	N
ATOM	8176	H	MET	X	716	64.936	80.910	109.379	1.00	0.00	H
ATOM	8177	CA	MET	X	716	64.165	81.588	107.463	1.00	0.00	C
ATOM	8178	HA	MET	X	716	64.827	81.669	106.601	1.00	0.00	H
ATOM	8179	CB	MET	X	716	63.495	80.235	107.412	1.00	0.00	C
ATOM	8180	HB2	MET	X	716	63.151	79.865	108.379	1.00	0.00	H
ATOM	8181	HB3	MET	X	716	62.602	80.245	106.788	1.00	0.00	H
ATOM	8182	CG	MET	X	716	64.379	79.142	106.895	1.00	0.00	C
ATOM	8183	HG2	MET	X	716	65.371	79.380	107.280	1.00	0.00	H
ATOM	8184	HG3	MET	X	716	64.077	78.133	107.173	1.00	0.00	H
ATOM	8185	SD	MET	X	716	64.430	78.947	105.122	1.00	0.00	S
ATOM	8186	CE	MET	X	716	66.080	79.491	104.697	1.00	0.00	C
ATOM	8187	HE1	MET	X	716	66.874	78.790	104.955	1.00	0.00	H
ATOM	8188	HE2	MET	X	716	66.037	79.707	103.628	1.00	0.00	H
ATOM	8189	HE3	MET	X	716	66.332	80.434	105.185	1.00	0.00	H
ATOM	8190	C	MET	X	716	63.133	82.655	107.285	1.00	0.00	C
ATOM	8191	O	MET	X	716	62.721	82.867	106.159	1.00	0.00	O
ATOM	8192	N	PRO	X	717	62.728	83.472	108.326	1.00	0.00	N
ATOM	8193	CD	PRO	X	717	62.792	83.314	109.790	1.00	0.00	C
ATOM	8194	HD2	PRO	X	717	63.801	83.635	110.051	1.00	0.00	H
ATOM	8195	HD3	PRO	X	717	62.411	82.319	110.021	1.00	0.00	H
ATOM	8196	CG	PRO	X	717	61.870	84.308	110.467	1.00	0.00	C
ATOM	8197	HG2	PRO	X	717	62.205	84.714	111.422	1.00	0.00	H
ATOM	8198	HG3	PRO	X	717	60.867	83.934	110.675	1.00	0.00	H

ATOM	8199	CB	PRO	X	717	61.818	85.403	109.396	1.00	0.00	C
ATOM	8200	HB2	PRO	X	717	62.695	85.999	109.644	1.00	0.00	H
ATOM	8201	HB3	PRO	X	717	60.912	86.007	109.413	1.00	0.00	H
ATOM	8202	CA	PRO	X	717	62.026	84.806	108.054	1.00	0.00	C
ATOM	8203	HA	PRO	X	717	61.056	84.680	107.575	1.00	0.00	H
ATOM	8204	C	PRO	X	717	62.836	85.776	107.127	1.00	0.00	C
ATOM	8205	O	PRO	X	717	62.316	86.234	106.108	1.00	0.00	O
ATOM	8206	N	GLY	X	718	64.073	86.080	107.424	1.00	0.00	N
ATOM	8207	H	GLY	X	718	64.536	85.518	108.124	1.00	0.00	H
ATOM	8208	CA	GLY	X	718	64.878	87.044	106.641	1.00	0.00	C
ATOM	8209	HA2	GLY	X	718	64.287	87.959	106.621	1.00	0.00	H
ATOM	8210	HA3	GLY	X	718	65.802	87.372	107.115	1.00	0.00	H
ATOM	8211	C	GLY	X	718	65.097	86.524	105.222	1.00	0.00	C
ATOM	8212	O	GLY	X	718	65.080	87.315	104.266	1.00	0.00	O
ATOM	8213	N	PHE	X	719	65.167	85.189	105.090	1.00	0.00	N
ATOM	8214	H	PHE	X	719	65.193	84.659	105.950	1.00	0.00	H
ATOM	8215	CA	PHE	X	719	65.157	84.541	103.822	1.00	0.00	C
ATOM	8216	HA	PHE	X	719	65.875	85.164	103.288	1.00	0.00	H
ATOM	8217	CB	PHE	X	719	65.735	83.120	104.044	1.00	0.00	C
ATOM	8218	HB2	PHE	X	719	66.621	83.049	104.673	1.00	0.00	H
ATOM	8219	HB3	PHE	X	719	64.948	82.769	104.712	1.00	0.00	H
ATOM	8220	CG	PHE	X	719	65.989	82.369	102.765	1.00	0.00	C
ATOM	8221	CD1	PHE	X	719	67.259	82.350	102.258	1.00	0.00	C
ATOM	8222	HD1	PHE	X	719	68.069	82.813	102.799	1.00	0.00	H
ATOM	8223	CE1	PHE	X	719	67.493	81.480	101.090	1.00	0.00	C
ATOM	8224	HE1	PHE	X	719	68.460	81.204	100.698	1.00	0.00	H
ATOM	8225	CZ	PHE	X	719	66.412	80.723	100.579	1.00	0.00	C
ATOM	8226	HZ	PHE	X	719	66.576	80.057	99.746	1.00	0.00	H
ATOM	8227	CE2	PHE	X	719	65.139	80.812	101.120	1.00	0.00	C
ATOM	8228	HE2	PHE	X	719	64.309	80.214	100.775	1.00	0.00	H
ATOM	8229	CD2	PHE	X	719	64.898	81.661	102.239	1.00	0.00	C
ATOM	8230	HD2	PHE	X	719	63.925	81.652	102.706	1.00	0.00	H
ATOM	8231	C	PHE	X	719	63.915	84.637	102.986	1.00	0.00	C
ATOM	8232	O	PHE	X	719	64.010	84.913	101.784	1.00	0.00	O
ATOM	8233	N	LEU	X	720	62.746	84.673	103.613	1.00	0.00	N
ATOM	8234	H	LEU	X	720	62.768	84.570	104.618	1.00	0.00	H
ATOM	8235	CA	LEU	X	720	61.474	85.018	102.925	1.00	0.00	C
ATOM	8236	HA	LEU	X	720	61.424	84.375	102.046	1.00	0.00	H
ATOM	8237	CB	LEU	X	720	60.367	84.562	103.941	1.00	0.00	C
ATOM	8238	HB2	LEU	X	720	60.604	83.564	104.312	1.00	0.00	H
ATOM	8239	HB3	LEU	X	720	60.408	85.238	104.796	1.00	0.00	H
ATOM	8240	CG	LEU	X	720	58.923	84.607	103.459	1.00	0.00	C
ATOM	8241	HG	LEU	X	720	58.643	85.634	103.220	1.00	0.00	H
ATOM	8242	CD1	LEU	X	720	58.702	83.810	102.186	1.00	0.00	C
ATOM	8243	HD11	LEU	X	720	57.665	83.854	101.855	1.00	0.00	H
ATOM	8244	HD12	LEU	X	720	59.269	84.219	101.351	1.00	0.00	H
ATOM	8245	HD13	LEU	X	720	58.866	82.742	102.331	1.00	0.00	H
ATOM	8246	CD2	LEU	X	720	57.943	84.155	104.588	1.00	0.00	C
ATOM	8247	HD21	LEU	X	720	58.225	84.751	105.456	1.00	0.00	H
ATOM	8248	HD22	LEU	X	720	56.925	84.376	104.266	1.00	0.00	H
ATOM	8249	HD23	LEU	X	720	57.958	83.098	104.855	1.00	0.00	H
ATOM	8250	C	LEU	X	720	61.340	86.502	102.467	1.00	0.00	C
ATOM	8251	O	LEU	X	720	60.579	86.739	101.526	1.00	0.00	O
ATOM	8252	N	TRP	X	721	62.022	87.424	103.246	1.00	0.00	N
ATOM	8253	H	TRP	X	721	62.599	87.074	103.997	1.00	0.00	H
ATOM	8254	CA	TRP	X	721	61.906	88.848	102.944	1.00	0.00	C
ATOM	8255	HA	TRP	X	721	60.860	89.077	102.739	1.00	0.00	H
ATOM	8256	CB	TRP	X	721	62.401	89.687	104.079	1.00	0.00	C
ATOM	8257	HB2	TRP	X	721	63.154	89.213	104.709	1.00	0.00	H
ATOM	8258	HB3	TRP	X	721	62.873	90.621	103.772	1.00	0.00	H
ATOM	8259	CG	TRP	X	721	61.222	90.040	104.959	1.00	0.00	C
ATOM	8260	CD1	TRP	X	721	60.966	89.558	106.177	1.00	0.00	C
ATOM	8261	HD1	TRP	X	721	61.547	88.827	106.723	1.00	0.00	H
ATOM	8262	NE1	TRP	X	721	59.923	90.297	106.736	1.00	0.00	N
ATOM	8263	HE1	TRP	X	721	59.452	90.089	107.604	1.00	0.00	H
ATOM	8264	CE2	TRP	X	721	59.414	91.192	105.794	1.00	0.00	C
ATOM	8265	CZ2	TRP	X	721	58.307	92.006	105.839	1.00	0.00	C
ATOM	8266	HZ2	TRP	X	721	57.709	92.027	106.739	1.00	0.00	H
ATOM	8267	CH2	TRP	X	721	58.176	92.846	104.727	1.00	0.00	C
ATOM	8268	HH2	TRP	X	721	57.389	93.586	104.725	1.00	0.00	H
ATOM	8269	CZ3	TRP	X	721	59.100	92.821	103.632	1.00	0.00	C
ATOM	8270	HZ3	TRP	X	721	58.880	93.468	102.796	1.00	0.00	H
ATOM	8271	CE3	TRP	X	721	60.118	91.937	103.634	1.00	0.00	C
ATOM	8272	HE3	TRP	X	721	60.843	91.838	102.839	1.00	0.00	H
ATOM	8273	CD2	TRP	X	721	60.324	91.127	104.730	1.00	0.00	C
ATOM	8274	C	TRP	X	721	62.629	89.187	101.633	1.00	0.00	C
ATOM	8275	O	TRP	X	721	62.091	90.026	100.863	1.00	0.00	O
ATOM	8276	N	LEU	X	722	63.781	88.553	101.276	1.00	0.00	N
ATOM	8277	H	LEU	X	722	64.183	87.821	101.842	1.00	0.00	H
ATOM	8278	CA	LEU	X	722	64.446	88.583	99.924	1.00	0.00	C
ATOM	8279	HA	LEU	X	722	64.730	89.615	99.715	1.00	0.00	H
ATOM	8280	CB	LEU	X	722	65.791	87.816	100.065	1.00	0.00	C

ATOM	8281	HB2	LEU	X	722	65.471	86.881	100.524	1.00	0.00	H
ATOM	8282	HB3	LEU	X	722	66.237	87.549	99.106	1.00	0.00	H
ATOM	8283	CG	LEU	X	722	66.885	88.539	100.884	1.00	0.00	C
ATOM	8284	HG	LEU	X	722	66.422	88.942	101.786	1.00	0.00	H
ATOM	8285	CD1	LEU	X	722	67.977	87.579	101.368	1.00	0.00	C
ATOM	8286	HD11	LEU	X	722	68.523	87.222	100.495	1.00	0.00	H
ATOM	8287	HD12	LEU	X	722	68.655	87.992	102.115	1.00	0.00	H
ATOM	8288	HD13	LEU	X	722	67.644	86.646	101.825	1.00	0.00	H
ATOM	8289	CD2	LEU	X	722	67.462	89.758	100.171	1.00	0.00	C
ATOM	8290	HD21	LEU	X	722	67.504	89.489	99.115	1.00	0.00	H
ATOM	8291	HD22	LEU	X	722	66.891	90.676	100.315	1.00	0.00	H
ATOM	8292	HD23	LEU	X	722	68.487	89.936	100.491	1.00	0.00	H
ATOM	8293	C	LEU	X	722	63.669	88.060	98.755	1.00	0.00	C
ATOM	8294	O	LEU	X	722	63.583	88.777	97.774	1.00	0.00	O
ATOM	8295	N	ILE	X	723	62.979	86.926	98.994	1.00	0.00	N
ATOM	8296	H	ILE	X	723	63.085	86.395	99.845	1.00	0.00	H
ATOM	8297	CA	ILE	X	723	62.038	86.427	97.977	1.00	0.00	C
ATOM	8298	HA	ILE	X	723	62.760	86.342	97.163	1.00	0.00	H
ATOM	8299	CB	ILE	X	723	61.623	85.004	98.436	1.00	0.00	C
ATOM	8300	HB	ILE	X	723	61.410	85.046	99.504	1.00	0.00	H
ATOM	8301	CG2	ILE	X	723	60.309	84.561	97.754	1.00	0.00	C
ATOM	8302	HG21	ILE	X	723	59.427	85.201	97.750	1.00	0.00	H
ATOM	8303	HG22	ILE	X	723	60.529	84.454	96.691	1.00	0.00	H
ATOM	8304	HG23	ILE	X	723	60.000	83.630	98.228	1.00	0.00	H
ATOM	8305	CG1	ILE	X	723	62.772	83.987	98.064	1.00	0.00	C
ATOM	8306	HG12	ILE	X	723	62.811	83.837	96.984	1.00	0.00	H
ATOM	8307	HG13	ILE	X	723	63.764	84.392	98.262	1.00	0.00	H
ATOM	8308	CD1	ILE	X	723	62.617	82.622	98.849	1.00	0.00	C
ATOM	8309	HD11	ILE	X	723	63.534	82.048	98.713	1.00	0.00	H
ATOM	8310	HD12	ILE	X	723	62.563	82.857	99.913	1.00	0.00	H
ATOM	8311	HD13	ILE	X	723	61.781	82.076	98.416	1.00	0.00	H
ATOM	8312	C	ILE	X	723	60.829	87.358	97.708	1.00	0.00	C
ATOM	8313	O	ILE	X	723	60.594	87.767	96.571	1.00	0.00	O
ATOM	8314	N	ARG	X	724	60.298	88.001	98.754	1.00	0.00	N
ATOM	8315	H	ARG	X	724	60.586	87.754	99.691	1.00	0.00	H
ATOM	8316	CA	ARG	X	724	59.458	89.189	98.717	1.00	0.00	C
ATOM	8317	HA	ARG	X	724	58.714	88.914	97.968	1.00	0.00	H
ATOM	8318	CB	ARG	X	724	58.838	89.669	100.039	1.00	0.00	C
ATOM	8319	HB2	ARG	X	724	59.595	90.100	100.694	1.00	0.00	H
ATOM	8320	HB3	ARG	X	724	58.178	90.531	99.935	1.00	0.00	H
ATOM	8321	CG	ARG	X	724	58.002	88.645	100.778	1.00	0.00	C
ATOM	8322	HG2	ARG	X	724	57.066	88.427	100.265	1.00	0.00	H
ATOM	8323	HG3	ARG	X	724	58.545	87.701	100.711	1.00	0.00	H
ATOM	8324	CD	ARG	X	724	57.842	89.214	102.231	1.00	0.00	C
ATOM	8325	HD2	ARG	X	724	58.852	89.256	102.636	1.00	0.00	H
ATOM	8326	HD3	ARG	X	724	57.411	90.216	102.245	1.00	0.00	H
ATOM	8327	NE	ARG	X	724	56.963	88.323	103.056	1.00	0.00	N
ATOM	8328	HE	ARG	X	724	56.018	88.142	102.750	1.00	0.00	H
ATOM	8329	CZ	ARG	X	724	57.113	88.040	104.373	1.00	0.00	C
ATOM	8330	NH1	ARG	X	724	58.100	88.351	105.146	1.00	0.00	N
ATOM	8331	HH11	ARG	X	724	58.991	88.673	104.795	1.00	0.00	H
ATOM	8332	HH12	ARG	X	724	58.001	88.131	106.126	1.00	0.00	H
ATOM	8333	NH2	ARG	X	724	56.123	87.510	105.009	1.00	0.00	N
ATOM	8334	HH21	ARG	X	724	55.233	87.393	104.545	1.00	0.00	H
ATOM	8335	HH22	ARG	X	724	56.284	87.395	106.000	1.00	0.00	H
ATOM	8336	C	ARG	X	724	60.147	90.394	97.953	1.00	0.00	C
ATOM	8337	O	ARG	X	724	59.565	90.991	97.085	1.00	0.00	O
ATOM	8338	N	SER	X	725	61.406	90.704	98.178	1.00	0.00	N
ATOM	8339	H	SER	X	725	61.968	90.161	98.817	1.00	0.00	H
ATOM	8340	CA	SER	X	725	62.085	91.766	97.491	1.00	0.00	C
ATOM	8341	HA	SER	X	725	61.420	92.629	97.530	1.00	0.00	H
ATOM	8342	CB	SER	X	725	63.379	92.155	98.201	1.00	0.00	C
ATOM	8343	HB2	SER	X	725	64.179	91.415	98.157	1.00	0.00	H
ATOM	8344	HB3	SER	X	725	63.767	93.027	97.673	1.00	0.00	H
ATOM	8345	OG	SER	X	725	63.178	92.441	99.601	1.00	0.00	O
ATOM	8346	HG	SER	X	725	62.936	91.599	99.993	1.00	0.00	H
ATOM	8347	C	SER	X	725	62.369	91.558	96.014	1.00	0.00	C
ATOM	8348	O	SER	X	725	62.318	92.527	95.282	1.00	0.00	O
ATOM	8349	N	LEU	X	726	62.449	90.324	95.621	1.00	0.00	N
ATOM	8350	H	LEU	X	726	62.380	89.602	96.323	1.00	0.00	H
ATOM	8351	CA	LEU	X	726	62.344	89.944	94.150	1.00	0.00	C
ATOM	8352	HA	LEU	X	726	62.997	90.560	93.531	1.00	0.00	H
ATOM	8353	CB	LEU	X	726	62.926	88.528	94.031	1.00	0.00	C
ATOM	8354	HB2	LEU	X	726	62.616	88.016	94.943	1.00	0.00	H
ATOM	8355	HB3	LEU	X	726	62.669	88.040	93.091	1.00	0.00	H
ATOM	8356	CG	LEU	X	726	64.494	88.478	94.048	1.00	0.00	C
ATOM	8357	HG	LEU	X	726	64.823	89.009	94.942	1.00	0.00	H
ATOM	8358	CD1	LEU	X	726	64.934	87.008	94.183	1.00	0.00	C
ATOM	8359	HD11	LEU	X	726	65.990	86.961	94.450	1.00	0.00	H
ATOM	8360	HD12	LEU	X	726	64.474	86.658	95.107	1.00	0.00	H
ATOM	8361	HD13	LEU	X	726	64.759	86.291	93.380	1.00	0.00	H
ATOM	8362	CD2	LEU	X	726	65.163	89.172	92.861	1.00	0.00	C

ATOM	8363	HD21	LEU	X	726	66.219	89.000	93.069	1.00	0.00	H
ATOM	8364	HD22	LEU	X	726	64.786	88.704	91.952	1.00	0.00	H
ATOM	8365	HD23	LEU	X	726	65.007	90.247	92.942	1.00	0.00	H
ATOM	8366	C	LEU	X	726	60.874	90.153	93.594	1.00	0.00	C
ATOM	8367	O	LEU	X	726	60.691	90.670	92.480	1.00	0.00	O
ATOM	8368	N	TYR	X	727	59.851	89.593	94.291	1.00	0.00	N
ATOM	8369	H	TYR	X	727	60.001	89.148	95.184	1.00	0.00	H
ATOM	8370	CA	TYR	X	727	58.407	89.718	93.916	1.00	0.00	C
ATOM	8371	HA	TYR	X	727	58.214	89.373	92.899	1.00	0.00	H
ATOM	8372	CB	TYR	X	727	57.608	88.918	94.925	1.00	0.00	C
ATOM	8373	HB2	TYR	X	727	57.915	87.880	94.800	1.00	0.00	H
ATOM	8374	HB3	TYR	X	727	57.742	89.295	95.939	1.00	0.00	H
ATOM	8375	CG	TYR	X	727	56.137	88.888	94.706	1.00	0.00	C
ATOM	8376	CD1	TYR	X	727	55.581	87.933	93.812	1.00	0.00	C
ATOM	8377	HD1	TYR	X	727	56.193	87.227	93.271	1.00	0.00	H
ATOM	8378	CE1	TYR	X	727	54.179	87.847	93.639	1.00	0.00	C
ATOM	8379	HE1	TYR	X	727	53.776	87.100	92.970	1.00	0.00	H
ATOM	8380	CZ	TYR	X	727	53.350	88.753	94.327	1.00	0.00	C
ATOM	8381	OH	TYR	X	727	52.033	88.928	93.994	1.00	0.00	O
ATOM	8382	HH	TYR	X	727	51.831	89.866	94.028	1.00	0.00	H
ATOM	8383	CE2	TYR	X	727	53.900	89.700	95.161	1.00	0.00	C
ATOM	8384	HE2	TYR	X	727	53.274	90.356	95.749	1.00	0.00	H
ATOM	8385	CD2	TYR	X	727	55.314	89.755	95.406	1.00	0.00	C
ATOM	8386	HD2	TYR	X	727	55.795	90.423	96.105	1.00	0.00	H
ATOM	8387	C	TYR	X	727	57.970	91.191	93.810	1.00	0.00	C
ATOM	8388	O	TYR	X	727	57.145	91.568	92.964	1.00	0.00	O
ATOM	8389	N	GLU	X	728	58.472	92.112	94.692	1.00	0.00	N
ATOM	8390	H	GLU	X	728	59.076	91.758	95.420	1.00	0.00	H
ATOM	8391	CA	GLU	X	728	58.128	93.518	94.757	1.00	0.00	C
ATOM	8392	HA	GLU	X	728	57.042	93.608	94.732	1.00	0.00	H
ATOM	8393	CB	GLU	X	728	58.636	94.173	96.111	1.00	0.00	C
ATOM	8394	HB2	GLU	X	728	59.659	93.878	96.348	1.00	0.00	H
ATOM	8395	HB3	GLU	X	728	58.651	95.263	96.129	1.00	0.00	H
ATOM	8396	CG	GLU	X	728	57.750	93.800	97.344	1.00	0.00	C
ATOM	8397	HG2	GLU	X	728	57.741	92.730	97.548	1.00	0.00	H
ATOM	8398	HG3	GLU	X	728	58.286	94.140	98.230	1.00	0.00	H
ATOM	8399	CD	GLU	X	728	56.267	94.253	97.263	1.00	0.00	C
ATOM	8400	OE1	GLU	X	728	55.972	95.260	96.583	1.00	0.00	O
ATOM	8401	OE2	GLU	X	728	55.339	93.565	97.749	1.00	0.00	O
ATOM	8402	C	GLU	X	728	58.756	94.188	93.579	1.00	0.00	C
ATOM	8403	O	GLU	X	728	58.129	95.117	92.953	1.00	0.00	O
ATOM	8404	N	MET	X	729	59.979	93.791	93.177	1.00	0.00	N
ATOM	8405	H	MET	X	729	60.311	92.925	93.577	1.00	0.00	H
ATOM	8406	CA	MET	X	729	60.692	94.156	91.946	1.00	0.00	C
ATOM	8407	HA	MET	X	729	60.570	95.232	91.811	1.00	0.00	H
ATOM	8408	CB	MET	X	729	62.189	93.834	92.098	1.00	0.00	C
ATOM	8409	HB2	MET	X	729	62.464	94.023	93.134	1.00	0.00	H
ATOM	8410	HB3	MET	X	729	62.378	92.811	91.768	1.00	0.00	H
ATOM	8411	CG	MET	X	729	63.206	94.697	91.229	1.00	0.00	C
ATOM	8412	HG2	MET	X	729	63.087	94.560	90.154	1.00	0.00	H
ATOM	8413	HG3	MET	X	729	62.965	95.744	91.420	1.00	0.00	H
ATOM	8414	SD	MET	X	729	64.941	94.384	91.667	1.00	0.00	S
ATOM	8415	CE	MET	X	729	65.309	96.060	92.201	1.00	0.00	C
ATOM	8416	HE1	MET	X	729	64.732	96.648	91.488	1.00	0.00	H
ATOM	8417	HE2	MET	X	729	65.002	96.278	93.224	1.00	0.00	H
ATOM	8418	HE3	MET	X	729	66.391	96.143	92.097	1.00	0.00	H
ATOM	8419	C	MET	X	729	60.061	93.597	90.623	1.00	0.00	C
ATOM	8420	O	MET	X	729	60.275	94.187	89.547	1.00	0.00	O
ATOM	8421	N	GLN	X	730	59.234	92.542	90.581	1.00	0.00	N
ATOM	8422	H	GLN	X	730	58.987	92.125	91.467	1.00	0.00	H
ATOM	8423	CA	GLN	X	730	58.521	92.013	89.421	1.00	0.00	C
ATOM	8424	HA	GLN	X	730	58.134	91.053	89.766	1.00	0.00	H
ATOM	8425	CB	GLN	X	730	57.382	92.971	88.947	1.00	0.00	C
ATOM	8426	HB2	GLN	X	730	57.728	93.870	88.440	1.00	0.00	H
ATOM	8427	HB3	GLN	X	730	56.833	92.403	88.197	1.00	0.00	H
ATOM	8428	CG	GLN	X	730	56.410	93.260	90.143	1.00	0.00	C
ATOM	8429	HG2	GLN	X	730	56.116	92.340	90.646	1.00	0.00	H
ATOM	8430	HG3	GLN	X	730	56.774	93.934	90.918	1.00	0.00	H
ATOM	8431	CD	GLN	X	730	55.229	93.928	89.585	1.00	0.00	C
ATOM	8432	OE1	GLN	X	730	54.656	93.624	88.574	1.00	0.00	O
ATOM	8433	NE2	GLN	X	730	54.841	94.960	90.232	1.00	0.00	N
ATOM	8434	HE21	GLN	X	730	54.120	95.483	89.755	1.00	0.00	H
ATOM	8435	HE22	GLN	X	730	55.414	95.376	90.950	1.00	0.00	H
ATOM	8436	C	GLN	X	730	59.475	91.670	88.258	1.00	0.00	C
ATOM	8437	O	GLN	X	730	59.141	91.947	87.108	1.00	0.00	O
ATOM	8438	N	GLU	X	731	60.696	91.288	88.563	1.00	0.00	N
ATOM	8439	H	GLU	X	731	60.943	91.142	89.531	1.00	0.00	H
ATOM	8440	CA	GLU	X	731	61.733	90.951	87.625	1.00	0.00	C
ATOM	8441	HA	GLU	X	731	61.410	91.216	86.618	1.00	0.00	H
ATOM	8442	CB	GLU	X	731	63.050	91.752	88.093	1.00	0.00	C
ATOM	8443	HB2	GLU	X	731	62.829	92.725	88.531	1.00	0.00	H
ATOM	8444	HB3	GLU	X	731	63.513	91.238	88.934	1.00	0.00	H

ATOM	8445	CG	GLU	X	731	64.096	91.840	86.947	1.00	0.00	C
ATOM	8446	HG2	GLU	X	731	64.992	92.341	87.313	1.00	0.00	H
ATOM	8447	HG3	GLU	X	731	64.489	90.843	86.744	1.00	0.00	H
ATOM	8448	CD	GLU	X	731	63.494	92.591	85.701	1.00	0.00	C
ATOM	8449	OE1	GLU	X	731	62.886	93.597	85.925	1.00	0.00	O
ATOM	8450	OE2	GLU	X	731	63.604	92.154	84.518	1.00	0.00	O
ATOM	8451	C	GLU	X	731	61.950	89.466	87.535	1.00	0.00	C
ATOM	8452	O	GLU	X	731	62.458	88.822	88.412	1.00	0.00	O
ATOM	8453	N	GLU	X	732	61.583	88.911	86.342	1.00	0.00	N
ATOM	8454	H	GLU	X	732	61.094	89.538	85.719	1.00	0.00	H
ATOM	8455	CA	GLU	X	732	61.511	87.416	86.132	1.00	0.00	C
ATOM	8456	HA	GLU	X	732	61.125	86.935	87.030	1.00	0.00	H
ATOM	8457	CB	GLU	X	732	60.593	87.175	84.894	1.00	0.00	C
ATOM	8458	HB2	GLU	X	732	60.980	87.386	83.898	1.00	0.00	H
ATOM	8459	HB3	GLU	X	732	60.480	86.091	84.908	1.00	0.00	H
ATOM	8460	CG	GLU	X	732	59.134	87.742	84.965	1.00	0.00	C
ATOM	8461	HG2	GLU	X	732	58.429	87.219	84.318	1.00	0.00	H
ATOM	8462	HG3	GLU	X	732	58.816	87.545	85.989	1.00	0.00	H
ATOM	8463	CD	GLU	X	732	58.952	89.177	84.493	1.00	0.00	C
ATOM	8464	OE1	GLU	X	732	59.982	89.782	84.263	1.00	0.00	O
ATOM	8465	OE2	GLU	X	732	57.854	89.660	84.423	1.00	0.00	O
ATOM	8466	C	GLU	X	732	62.863	86.930	85.825	1.00	0.00	C
ATOM	8467	O	GLU	X	732	63.271	85.953	86.410	1.00	0.00	O
ATOM	8468	N	ARG	X	733	63.619	87.646	84.939	1.00	0.00	N
ATOM	8469	H	ARG	X	733	63.218	88.445	84.468	1.00	0.00	H
ATOM	8470	CA	ARG	X	733	65.024	87.344	84.646	1.00	0.00	C
ATOM	8471	HA	ARG	X	733	65.140	86.293	84.383	1.00	0.00	H
ATOM	8472	CB	ARG	X	733	65.454	88.212	83.420	1.00	0.00	C
ATOM	8473	HB2	ARG	X	733	65.174	89.262	83.506	1.00	0.00	H
ATOM	8474	HB3	ARG	X	733	66.523	88.174	83.212	1.00	0.00	H
ATOM	8475	CG	ARG	X	733	64.766	87.642	82.176	1.00	0.00	C
ATOM	8476	HG2	ARG	X	733	65.354	86.756	81.936	1.00	0.00	H
ATOM	8477	HG3	ARG	X	733	63.743	87.393	82.451	1.00	0.00	H
ATOM	8478	CD	ARG	X	733	64.700	88.571	80.995	1.00	0.00	C
ATOM	8479	HD2	ARG	X	733	64.192	89.465	81.357	1.00	0.00	H
ATOM	8480	HD3	ARG	X	733	65.693	88.869	80.661	1.00	0.00	H
ATOM	8481	NE	ARG	X	733	63.954	87.957	79.819	1.00	0.00	N
ATOM	8482	HE	ARG	X	733	64.410	87.634	78.977	1.00	0.00	H
ATOM	8483	CZ	ARG	X	733	62.646	88.143	79.639	1.00	0.00	C
ATOM	8484	NH1	ARG	X	733	61.827	88.572	80.510	1.00	0.00	N
ATOM	8485	HH11	ARG	X	733	62.218	89.009	81.331	1.00	0.00	H
ATOM	8486	HH12	ARG	X	733	60.856	88.292	80.492	1.00	0.00	H
ATOM	8487	NH2	ARG	X	733	62.115	87.608	78.606	1.00	0.00	N
ATOM	8488	HH21	ARG	X	733	62.755	87.253	77.911	1.00	0.00	H
ATOM	8489	HH22	ARG	X	733	61.108	87.528	78.586	1.00	0.00	H
ATOM	8490	C	ARG	X	733	65.954	87.514	85.843	1.00	0.00	C
ATOM	8491	O	ARG	X	733	66.955	86.795	85.937	1.00	0.00	O
ATOM	8492	N	LEU	X	734	65.701	88.358	86.827	1.00	0.00	N
ATOM	8493	H	LEU	X	734	64.979	89.059	86.742	1.00	0.00	H
ATOM	8494	CA	LEU	X	734	66.495	88.358	88.099	1.00	0.00	C
ATOM	8495	HA	LEU	X	734	67.545	88.148	87.900	1.00	0.00	H
ATOM	8496	CB	LEU	X	734	66.347	89.716	88.837	1.00	0.00	C
ATOM	8497	HB2	LEU	X	734	66.511	90.555	88.160	1.00	0.00	H
ATOM	8498	HB3	LEU	X	734	65.351	89.702	89.279	1.00	0.00	H
ATOM	8499	CG	LEU	X	734	67.257	89.914	90.031	1.00	0.00	C
ATOM	8500	HG	LEU	X	734	67.176	89.067	90.714	1.00	0.00	H
ATOM	8501	CD1	LEU	X	734	68.709	89.991	89.554	1.00	0.00	C
ATOM	8502	HD11	LEU	X	734	69.224	89.036	89.670	1.00	0.00	H
ATOM	8503	HD12	LEU	X	734	68.774	90.322	88.517	1.00	0.00	H
ATOM	8504	HD13	LEU	X	734	69.240	90.768	90.105	1.00	0.00	H
ATOM	8505	CD2	LEU	X	734	67.029	91.243	90.691	1.00	0.00	C
ATOM	8506	HD21	LEU	X	734	66.040	91.254	91.149	1.00	0.00	H
ATOM	8507	HD22	LEU	X	734	67.698	91.348	91.544	1.00	0.00	H
ATOM	8508	HD23	LEU	X	734	67.047	92.115	90.037	1.00	0.00	H
ATOM	8509	C	LEU	X	734	66.040	87.258	88.978	1.00	0.00	C
ATOM	8510	O	LEU	X	734	66.895	86.620	89.595	1.00	0.00	O
ATOM	8511	N	ALA	X	735	64.732	87.011	89.082	1.00	0.00	N
ATOM	8512	H	ALA	X	735	64.070	87.632	88.639	1.00	0.00	H
ATOM	8513	CA	ALA	X	735	64.262	85.838	89.832	1.00	0.00	C
ATOM	8514	HA	ALA	X	735	64.541	86.019	90.871	1.00	0.00	H
ATOM	8515	CB	ALA	X	735	62.784	85.837	89.925	1.00	0.00	C
ATOM	8516	HB1	ALA	X	735	62.429	86.834	90.188	1.00	0.00	H
ATOM	8517	HB2	ALA	X	735	62.256	85.498	89.034	1.00	0.00	H
ATOM	8518	HB3	ALA	X	735	62.492	85.180	90.743	1.00	0.00	H
ATOM	8519	C	ALA	X	735	64.877	84.528	89.361	1.00	0.00	C
ATOM	8520	O	ALA	X	735	65.259	83.672	90.206	1.00	0.00	O
ATOM	8521	N	GLN	X	736	64.934	84.305	88.034	1.00	0.00	N
ATOM	8522	H	GLN	X	736	64.564	84.980	87.380	1.00	0.00	H
ATOM	8523	CA	GLN	X	736	65.433	83.145	87.254	1.00	0.00	C
ATOM	8524	HA	GLN	X	736	64.956	82.216	87.565	1.00	0.00	H
ATOM	8525	CB	GLN	X	736	65.182	83.325	85.696	1.00	0.00	C
ATOM	8526	HB2	GLN	X	736	64.133	83.489	85.453	1.00	0.00	H

ATOM	8527	HB3	GLN	X	736	65.814	84.117	85.294	1.00	0.00	H
ATOM	8528	CG	GLN	X	736	65.497	82.056	84.890	1.00	0.00	C
ATOM	8529	HG2	GLN	X	736	66.530	81.773	85.092	1.00	0.00	H
ATOM	8530	HG3	GLN	X	736	64.948	81.204	85.288	1.00	0.00	H
ATOM	8531	CD	GLN	X	736	65.175	82.275	83.436	1.00	0.00	C
ATOM	8532	OE1	GLN	X	736	64.831	83.342	82.915	1.00	0.00	O
ATOM	8533	NE2	GLN	X	736	65.120	81.185	82.699	1.00	0.00	N
ATOM	8534	HE21	GLN	X	736	64.902	81.201	81.712	1.00	0.00	H
ATOM	8535	HE22	GLN	X	736	65.343	80.292	83.114	1.00	0.00	H
ATOM	8536	C	GLN	X	736	66.978	83.022	87.487	1.00	0.00	C
ATOM	8537	O	GLN	X	736	67.532	81.916	87.439	1.00	0.00	O
ATOM	8538	N	GLU	X	737	67.615	84.129	87.820	1.00	0.00	N
ATOM	8539	H	GLU	X	737	67.087	84.989	87.801	1.00	0.00	H
ATOM	8540	CA	GLU	X	737	69.115	84.239	88.011	1.00	0.00	C
ATOM	8541	HA	GLU	X	737	69.624	83.490	87.402	1.00	0.00	H
ATOM	8542	CB	GLU	X	737	69.532	85.735	87.581	1.00	0.00	C
ATOM	8543	HB2	GLU	X	737	69.301	85.659	86.519	1.00	0.00	H
ATOM	8544	HB3	GLU	X	737	68.954	86.448	88.169	1.00	0.00	H
ATOM	8545	CG	GLU	X	737	70.975	86.128	87.745	1.00	0.00	C
ATOM	8546	HG2	GLU	X	737	71.047	87.126	87.314	1.00	0.00	H
ATOM	8547	HG3	GLU	X	737	71.174	86.186	88.814	1.00	0.00	H
ATOM	8548	CD	GLU	X	737	71.879	85.149	87.090	1.00	0.00	C
ATOM	8549	OE1	GLU	X	737	71.814	84.884	85.859	1.00	0.00	O
ATOM	8550	OE2	GLU	X	737	72.775	84.588	87.742	1.00	0.00	O
ATOM	8551	C	GLU	X	737	69.428	83.950	89.493	1.00	0.00	C
ATOM	8552	O	GLU	X	737	70.337	83.237	89.824	1.00	0.00	O
ATOM	8553	N	ALA	X	738	68.530	84.450	90.383	1.00	0.00	N
ATOM	8554	H	ALA	X	738	67.805	85.073	90.056	1.00	0.00	H
ATOM	8555	CA	ALA	X	738	68.649	84.341	91.841	1.00	0.00	C
ATOM	8556	HA	ALA	X	738	69.602	84.791	92.116	1.00	0.00	H
ATOM	8557	CB	ALA	X	738	67.691	85.239	92.690	1.00	0.00	C
ATOM	8558	HB1	ALA	X	738	68.072	86.259	92.725	1.00	0.00	H
ATOM	8559	HB2	ALA	X	738	66.723	85.184	92.192	1.00	0.00	H
ATOM	8560	HB3	ALA	X	738	67.489	84.922	93.713	1.00	0.00	H
ATOM	8561	C	ALA	X	738	68.759	82.912	92.373	1.00	0.00	C
ATOM	8562	O	ALA	X	738	69.344	82.684	93.388	1.00	0.00	O
ATOM	8563	N	VAL	X	739	68.247	81.955	91.576	1.00	0.00	N
ATOM	8564	H	VAL	X	739	67.985	82.254	90.648	1.00	0.00	H
ATOM	8565	CA	VAL	X	739	68.278	80.539	92.001	1.00	0.00	C
ATOM	8566	HA	VAL	X	739	68.665	80.429	93.013	1.00	0.00	H
ATOM	8567	CB	VAL	X	739	66.871	79.940	91.876	1.00	0.00	C
ATOM	8568	HB	VAL	X	739	66.982	78.924	92.252	1.00	0.00	H
ATOM	8569	CG1	VAL	X	739	65.810	80.504	92.807	1.00	0.00	C
ATOM	8570	HG11	VAL	X	739	64.853	80.021	92.609	1.00	0.00	H
ATOM	8571	HG12	VAL	X	739	66.308	80.474	93.775	1.00	0.00	H
ATOM	8572	HG13	VAL	X	739	65.647	81.573	92.673	1.00	0.00	H
ATOM	8573	CG2	VAL	X	739	66.292	79.892	90.532	1.00	0.00	C
ATOM	8574	HG21	VAL	X	739	67.104	79.753	89.817	1.00	0.00	H
ATOM	8575	HG22	VAL	X	739	65.728	78.991	90.292	1.00	0.00	H
ATOM	8576	HG23	VAL	X	739	65.749	80.829	90.405	1.00	0.00	H
ATOM	8577	C	VAL	X	739	69.240	79.695	91.189	1.00	0.00	C
ATOM	8578	O	VAL	X	739	69.300	78.435	91.313	1.00	0.00	O
ATOM	8579	N	ARG	X	740	70.123	80.245	90.405	1.00	0.00	N
ATOM	8580	H	ARG	X	740	70.026	81.238	90.255	1.00	0.00	H
ATOM	8581	CA	ARG	X	740	71.260	79.537	89.752	1.00	0.00	C
ATOM	8582	HA	ARG	X	740	70.938	78.637	89.226	1.00	0.00	H
ATOM	8583	CB	ARG	X	740	71.916	80.348	88.627	1.00	0.00	C
ATOM	8584	HB2	ARG	X	740	72.421	81.253	88.968	1.00	0.00	H
ATOM	8585	HB3	ARG	X	740	72.792	79.818	88.256	1.00	0.00	H
ATOM	8586	CG	ARG	X	740	70.929	80.676	87.542	1.00	0.00	C
ATOM	8587	HG2	ARG	X	740	70.259	79.825	87.428	1.00	0.00	H
ATOM	8588	HG3	ARG	X	740	70.400	81.570	87.879	1.00	0.00	H
ATOM	8589	CD	ARG	X	740	71.685	80.886	86.173	1.00	0.00	C
ATOM	8590	HD2	ARG	X	740	72.308	79.996	86.083	1.00	0.00	H
ATOM	8591	HD3	ARG	X	740	70.916	80.925	85.401	1.00	0.00	H
ATOM	8592	NE	ARG	X	740	72.628	82.027	86.229	1.00	0.00	N
ATOM	8593	HE	ARG	X	740	72.472	82.872	86.761	1.00	0.00	H
ATOM	8594	CZ	ARG	X	740	73.662	82.238	85.401	1.00	0.00	C
ATOM	8595	NH1	ARG	X	740	73.919	81.398	84.474	1.00	0.00	N
ATOM	8596	HH11	ARG	X	740	73.451	80.504	84.471	1.00	0.00	H
ATOM	8597	HH12	ARG	X	740	74.652	81.597	83.807	1.00	0.00	H
ATOM	8598	NH2	ARG	X	740	74.311	83.373	85.333	1.00	0.00	N
ATOM	8599	HH21	ARG	X	740	74.052	84.004	86.079	1.00	0.00	H
ATOM	8600	HH22	ARG	X	740	75.114	83.474	84.732	1.00	0.00	H
ATOM	8601	C	ARG	X	740	72.255	79.067	90.837	1.00	0.00	C
ATOM	8602	O	ARG	X	740	72.601	79.893	91.708	1.00	0.00	O
ATOM	8603	N	GLY	X	741	72.645	77.771	90.804	1.00	0.00	N
ATOM	8604	H	GLY	X	741	72.128	77.228	90.127	1.00	0.00	H
ATOM	8605	CA	GLY	X	741	73.532	77.145	91.772	1.00	0.00	C
ATOM	8606	HA2	GLY	X	741	73.739	76.211	91.247	1.00	0.00	H
ATOM	8607	HA3	GLY	X	741	74.409	77.779	91.642	1.00	0.00	H
ATOM	8608	C	GLY	X	741	73.234	77.079	93.278	1.00	0.00	C

ATOM	8609	O	GLY	X	741	74.164	76.874	94.023	1.00	0.00	O
ATOM	8610	N	LEU	X	742	72.030	77.463	93.594	1.00	0.00	N
ATOM	8611	H	LEU	X	742	71.260	77.586	92.952	1.00	0.00	H
ATOM	8612	CA	LEU	X	742	71.575	77.659	94.959	1.00	0.00	C
ATOM	8613	HA	LEU	X	742	72.457	77.845	95.571	1.00	0.00	H
ATOM	8614	CB	LEU	X	742	70.524	78.810	94.970	1.00	0.00	C
ATOM	8615	HB2	LEU	X	742	70.950	79.688	94.481	1.00	0.00	H
ATOM	8616	HB3	LEU	X	742	69.681	78.531	94.339	1.00	0.00	H
ATOM	8617	CG	LEU	X	742	69.986	79.109	96.303	1.00	0.00	C
ATOM	8618	HG	LEU	X	742	69.552	78.199	96.718	1.00	0.00	H
ATOM	8619	CD1	LEU	X	742	70.904	79.595	97.431	1.00	0.00	C
ATOM	8620	HD11	LEU	X	742	71.758	78.917	97.429	1.00	0.00	H
ATOM	8621	HD12	LEU	X	742	71.305	80.588	97.233	1.00	0.00	H
ATOM	8622	HD13	LEU	X	742	70.517	79.585	98.450	1.00	0.00	H
ATOM	8623	CD2	LEU	X	742	68.835	80.180	96.135	1.00	0.00	C
ATOM	8624	HD21	LEU	X	742	68.547	80.450	97.152	1.00	0.00	H
ATOM	8625	HD22	LEU	X	742	69.382	81.056	95.788	1.00	0.00	H
ATOM	8626	HD23	LEU	X	742	68.085	79.926	95.386	1.00	0.00	H
ATOM	8627	C	LEU	X	742	71.061	76.313	95.368	1.00	0.00	C
ATOM	8628	O	LEU	X	742	69.878	75.927	95.373	1.00	0.00	O
ATOM	8629	N	ASN	X	743	71.982	75.464	95.894	1.00	0.00	N
ATOM	8630	H	ASN	X	743	72.949	75.751	95.848	1.00	0.00	H
ATOM	8631	CA	ASN	X	743	71.738	74.133	96.281	1.00	0.00	C
ATOM	8632	HA	ASN	X	743	71.107	73.751	95.480	1.00	0.00	H
ATOM	8633	CB	ASN	X	743	73.117	73.331	96.275	1.00	0.00	C
ATOM	8634	HB2	ASN	X	743	73.727	73.794	97.052	1.00	0.00	H
ATOM	8635	HB3	ASN	X	743	72.987	72.264	96.451	1.00	0.00	H
ATOM	8636	CG	ASN	X	743	73.756	73.454	94.872	1.00	0.00	C
ATOM	8637	OD1	ASN	X	743	73.178	73.229	93.822	1.00	0.00	O
ATOM	8638	ND2	ASN	X	743	74.998	73.713	94.811	1.00	0.00	N
ATOM	8639	HD21	ASN	X	743	75.388	73.764	93.880	1.00	0.00	H
ATOM	8640	HD22	ASN	X	743	75.486	73.892	95.676	1.00	0.00	H
ATOM	8641	C	ASN	X	743	71.023	74.007	97.650	1.00	0.00	C
ATOM	8642	O	ASN	X	743	71.599	73.511	98.605	1.00	0.00	O
ATOM	8643	N	VAL	X	744	69.847	74.572	97.883	1.00	0.00	N
ATOM	8644	H	VAL	X	744	69.514	75.166	97.136	1.00	0.00	H
ATOM	8645	CA	VAL	X	744	68.957	74.359	98.994	1.00	0.00	C
ATOM	8646	HA	VAL	X	744	69.581	74.370	99.886	1.00	0.00	H
ATOM	8647	CB	VAL	X	744	67.983	75.583	99.092	1.00	0.00	C
ATOM	8648	HB	VAL	X	744	67.230	75.303	99.828	1.00	0.00	H
ATOM	8649	CG1	VAL	X	744	68.580	76.966	99.401	1.00	0.00	C
ATOM	8650	HG11	VAL	X	744	68.618	76.926	100.489	1.00	0.00	H
ATOM	8651	HG12	VAL	X	744	69.545	77.216	98.964	1.00	0.00	H
ATOM	8652	HG13	VAL	X	744	67.885	77.793	99.244	1.00	0.00	H
ATOM	8653	CG2	VAL	X	744	67.174	75.764	97.820	1.00	0.00	C
ATOM	8654	HG21	VAL	X	744	66.217	76.165	98.156	1.00	0.00	H
ATOM	8655	HG22	VAL	X	744	67.627	76.411	97.069	1.00	0.00	H
ATOM	8656	HG23	VAL	X	744	66.898	74.845	97.303	1.00	0.00	H
ATOM	8657	C	VAL	X	744	68.210	73.024	98.902	1.00	0.00	C
ATOM	8658	O	VAL	X	744	68.129	72.399	97.840	1.00	0.00	O
ATOM	8659	N	GLU	X	745	67.906	72.392	100.032	1.00	0.00	N
ATOM	8660	H	GLU	X	745	68.318	72.747	100.884	1.00	0.00	H
ATOM	8661	CA	GLU	X	745	67.288	71.050	100.086	1.00	0.00	C
ATOM	8662	HA	GLU	X	745	67.007	70.775	99.069	1.00	0.00	H
ATOM	8663	CB	GLU	X	745	68.321	70.061	100.638	1.00	0.00	C
ATOM	8664	HB2	GLU	X	745	68.317	70.256	101.711	1.00	0.00	H
ATOM	8665	HB3	GLU	X	745	67.912	69.059	100.502	1.00	0.00	H
ATOM	8666	CG	GLU	X	745	69.731	69.992	100.004	1.00	0.00	C
ATOM	8667	HG2	GLU	X	745	70.225	70.959	100.098	1.00	0.00	H
ATOM	8668	HG3	GLU	X	745	70.251	69.186	100.524	1.00	0.00	H
ATOM	8669	CD	GLU	X	745	69.822	69.597	98.546	1.00	0.00	C
ATOM	8670	OE1	GLU	X	745	68.881	69.040	97.979	1.00	0.00	O
ATOM	8671	OE2	GLU	X	745	70.847	69.894	97.856	1.00	0.00	O
ATOM	8672	C	GLU	X	745	65.959	71.012	100.852	1.00	0.00	C
ATOM	8673	O	GLU	X	745	65.177	70.075	100.595	1.00	0.00	O
ATOM	8674	N	HIE	X	746	65.701	71.924	101.765	1.00	0.00	N
ATOM	8675	H	HIE	X	746	66.451	72.582	101.925	1.00	0.00	H
ATOM	8676	CA	HIE	X	746	64.531	72.011	102.670	1.00	0.00	C
ATOM	8677	HA	HIE	X	746	63.703	71.871	101.976	1.00	0.00	H
ATOM	8678	CB	HIE	X	746	64.637	70.872	103.685	1.00	0.00	C
ATOM	8679	HB2	HIE	X	746	64.644	69.918	103.156	1.00	0.00	H
ATOM	8680	HB3	HIE	X	746	65.548	71.065	104.251	1.00	0.00	H
ATOM	8681	CG	HIE	X	746	63.438	70.880	104.637	1.00	0.00	C
ATOM	8682	ND1	HIE	X	746	62.164	70.358	104.347	1.00	0.00	N
ATOM	8683	CE1	HIE	X	746	61.496	70.442	105.482	1.00	0.00	C
ATOM	8684	HE1	HIE	X	746	60.477	70.092	105.577	1.00	0.00	H
ATOM	8685	NE2	HIE	X	746	62.249	71.046	106.435	1.00	0.00	N
ATOM	8686	HE2	HIE	X	746	61.920	71.232	107.371	1.00	0.00	H
ATOM	8687	CD2	HIE	X	746	63.452	71.452	105.883	1.00	0.00	C
ATOM	8688	HD2	HIE	X	746	64.319	71.901	106.346	1.00	0.00	H
ATOM	8689	C	HIE	X	746	64.320	73.351	103.313	1.00	0.00	C
ATOM	8690	O	HIE	X	746	65.121	73.876	104.107	1.00	0.00	O

ATOM	8691	N	LEU	X	747	63.199	73.936	102.914	1.00	0.00	N
ATOM	8692	H	LEU	X	747	62.559	73.357	102.387	1.00	0.00	H
ATOM	8693	CA	LEU	X	747	62.740	75.285	103.249	1.00	0.00	C
ATOM	8694	HA	LEU	X	747	63.607	75.893	103.510	1.00	0.00	H
ATOM	8695	CB	LEU	X	747	62.225	75.975	101.993	1.00	0.00	C
ATOM	8696	HB2	LEU	X	747	61.814	75.244	101.300	1.00	0.00	H
ATOM	8697	HB3	LEU	X	747	61.446	76.721	102.151	1.00	0.00	H
ATOM	8698	CG	LEU	X	747	63.249	76.847	101.174	1.00	0.00	C
ATOM	8699	HG	LEU	X	747	63.517	77.774	101.682	1.00	0.00	H
ATOM	8700	CD1	LEU	X	747	64.514	76.156	100.650	1.00	0.00	C
ATOM	8701	HD11	LEU	X	747	65.158	76.090	101.525	1.00	0.00	H
ATOM	8702	HD12	LEU	X	747	64.270	75.193	100.203	1.00	0.00	H
ATOM	8703	HD13	LEU	X	747	65.104	76.818	100.015	1.00	0.00	H
ATOM	8704	CD2	LEU	X	747	62.507	77.394	99.967	1.00	0.00	C
ATOM	8705	HD21	LEU	X	747	61.708	78.055	100.305	1.00	0.00	H
ATOM	8706	HD22	LEU	X	747	63.205	77.943	99.335	1.00	0.00	H
ATOM	8707	HD23	LEU	X	747	62.064	76.616	99.345	1.00	0.00	H
ATOM	8708	C	LEU	X	747	61.711	75.224	104.412	1.00	0.00	C
ATOM	8709	O	LEU	X	747	60.530	75.264	104.150	1.00	0.00	O
ATOM	8710	N	LYS	X	748	62.333	75.246	105.593	1.00	0.00	N
ATOM	8711	H	LYS	X	748	63.339	75.255	105.683	1.00	0.00	H
ATOM	8712	CA	LYS	X	748	61.663	75.417	106.819	1.00	0.00	C
ATOM	8713	HA	LYS	X	748	60.738	74.842	106.754	1.00	0.00	H
ATOM	8714	CB	LYS	X	748	62.641	74.907	107.913	1.00	0.00	C
ATOM	8715	HB2	LYS	X	748	63.229	74.104	107.468	1.00	0.00	H
ATOM	8716	HB3	LYS	X	748	63.391	75.680	108.088	1.00	0.00	H
ATOM	8717	CG	LYS	X	748	61.991	74.518	109.224	1.00	0.00	C
ATOM	8718	HG2	LYS	X	748	61.647	75.416	109.734	1.00	0.00	H
ATOM	8719	HG3	LYS	X	748	61.162	73.831	109.047	1.00	0.00	H
ATOM	8720	CD	LYS	X	748	63.003	73.752	110.137	1.00	0.00	C
ATOM	8721	HD2	LYS	X	748	63.376	72.855	109.641	1.00	0.00	H
ATOM	8722	HD3	LYS	X	748	63.827	74.448	110.294	1.00	0.00	H
ATOM	8723	CE	LYS	X	748	62.317	73.377	111.391	1.00	0.00	C
ATOM	8724	HE2	LYS	X	748	61.842	74.297	111.735	1.00	0.00	H
ATOM	8725	HE3	LYS	X	748	61.528	72.658	111.168	1.00	0.00	H
ATOM	8726	NZ	LYS	X	748	63.349	72.983	112.415	1.00	0.00	N
ATOM	8727	HZ1	LYS	X	748	63.365	73.684	113.142	1.00	0.00	H
ATOM	8728	HZ2	LYS	X	748	63.089	72.045	112.686	1.00	0.00	H
ATOM	8729	HZ3	LYS	X	748	64.314	72.957	112.116	1.00	0.00	H
ATOM	8730	C	LYS	X	748	61.185	76.891	107.040	1.00	0.00	C
ATOM	8731	O	LYS	X	748	61.559	77.600	107.987	1.00	0.00	O
ATOM	8732	N	LEU	X	749	60.136	77.268	106.319	1.00	0.00	N
ATOM	8733	H	LEU	X	749	59.863	76.617	105.596	1.00	0.00	H
ATOM	8734	CA	LEU	X	749	59.443	78.517	106.521	1.00	0.00	C
ATOM	8735	HA	LEU	X	749	60.234	79.267	106.540	1.00	0.00	H
ATOM	8736	CB	LEU	X	749	58.709	78.826	105.196	1.00	0.00	C
ATOM	8737	HB2	LEU	X	749	58.229	77.893	104.908	1.00	0.00	H
ATOM	8738	HB3	LEU	X	749	58.013	79.667	105.196	1.00	0.00	H
ATOM	8739	CG	LEU	X	749	59.704	79.226	104.029	1.00	0.00	C
ATOM	8740	HG	LEU	X	749	60.505	78.488	103.989	1.00	0.00	H
ATOM	8741	CD1	LEU	X	749	59.098	79.188	102.656	1.00	0.00	C
ATOM	8742	HD11	LEU	X	749	59.840	79.370	101.879	1.00	0.00	H
ATOM	8743	HD12	LEU	X	749	58.678	78.182	102.679	1.00	0.00	H
ATOM	8744	HD13	LEU	X	749	58.324	79.954	102.600	1.00	0.00	H
ATOM	8745	CD2	LEU	X	749	60.433	80.619	104.185	1.00	0.00	C
ATOM	8746	HD21	LEU	X	749	61.080	80.704	105.057	1.00	0.00	H
ATOM	8747	HD22	LEU	X	749	60.882	80.930	103.242	1.00	0.00	H
ATOM	8748	HD23	LEU	X	749	59.619	81.291	104.457	1.00	0.00	H
ATOM	8749	C	LEU	X	749	58.593	78.695	107.805	1.00	0.00	C
ATOM	8750	O	LEU	X	749	57.644	79.368	107.750	1.00	0.00	O
ATOM	8751	N	THR	X	750	58.801	77.866	108.854	1.00	0.00	N
ATOM	8752	H	THR	X	750	59.644	77.313	108.921	1.00	0.00	H
ATOM	8753	CA	THR	X	750	57.868	77.760	110.045	1.00	0.00	C
ATOM	8754	HA	THR	X	750	56.976	77.239	109.697	1.00	0.00	H
ATOM	8755	CB	THR	X	750	58.385	76.737	111.161	1.00	0.00	C
ATOM	8756	HB	THR	X	750	57.633	76.699	111.949	1.00	0.00	H
ATOM	8757	CG2	THR	X	750	58.598	75.358	110.568	1.00	0.00	C
ATOM	8758	HG21	THR	X	750	57.610	75.004	110.271	1.00	0.00	H
ATOM	8759	HG22	THR	X	750	59.396	75.356	109.826	1.00	0.00	H
ATOM	8760	HG23	THR	X	750	58.831	74.705	111.407	1.00	0.00	H
ATOM	8761	OG1	THR	X	750	59.625	77.203	111.658	1.00	0.00	O
ATOM	8762	HG1	THR	X	750	59.458	78.093	111.978	1.00	0.00	H
ATOM	8763	C	THR	X	750	57.564	79.075	110.732	1.00	0.00	C
ATOM	8764	O	THR	X	750	58.483	79.790	111.138	1.00	0.00	O
ATOM	8765	N	PHE	X	751	56.326	79.395	110.905	1.00	0.00	N
ATOM	8766	H	PHE	X	751	55.670	78.865	110.350	1.00	0.00	H
ATOM	8767	CA	PHE	X	751	55.762	80.658	111.562	1.00	0.00	C
ATOM	8768	HA	PHE	X	751	54.733	80.708	111.206	1.00	0.00	H
ATOM	8769	CB	PHE	X	751	55.800	80.412	113.052	1.00	0.00	C
ATOM	8770	HB2	PHE	X	751	55.479	81.335	113.533	1.00	0.00	H
ATOM	8771	HB3	PHE	X	751	55.024	79.711	113.365	1.00	0.00	H
ATOM	8772	CG	PHE	X	751	57.142	80.093	113.723	1.00	0.00	C

ATOM	8773	CD1	PHE	X	751	57.436	78.776	114.153	1.00	0.00	C
ATOM	8774	HD1	PHE	X	751	56.678	78.006	114.140	1.00	0.00	H
ATOM	8775	CE1	PHE	X	751	58.671	78.534	114.822	1.00	0.00	C
ATOM	8776	HE1	PHE	X	751	58.788	77.527	115.194	1.00	0.00	H
ATOM	8777	CZ	PHE	X	751	59.518	79.539	115.183	1.00	0.00	C
ATOM	8778	HZ	PHE	X	751	60.461	79.263	115.633	1.00	0.00	H
ATOM	8779	CE2	PHE	X	751	59.244	80.821	114.746	1.00	0.00	C
ATOM	8780	HE2	PHE	X	751	59.901	81.630	115.029	1.00	0.00	H
ATOM	8781	CD2	PHE	X	751	58.051	81.097	114.104	1.00	0.00	C
ATOM	8782	HD2	PHE	X	751	57.771	82.130	113.961	1.00	0.00	H
ATOM	8783	C	PHE	X	751	56.447	81.977	111.174	1.00	0.00	C
ATOM	8784	O	PHE	X	751	56.343	83.005	111.860	1.00	0.00	O
ATOM	8785	N	CYS	X	752	57.052	82.001	109.969	1.00	0.00	N
ATOM	8786	H	CYS	X	752	56.977	81.185	109.376	1.00	0.00	H
ATOM	8787	CA	CYS	X	752	57.811	83.088	109.314	1.00	0.00	C
ATOM	8788	HA	CYS	X	752	58.492	83.628	109.974	1.00	0.00	H
ATOM	8789	CB	CYS	X	752	58.665	82.371	108.273	1.00	0.00	C
ATOM	8790	HB2	CYS	X	752	57.995	81.763	107.666	1.00	0.00	H
ATOM	8791	HB3	CYS	X	752	58.947	83.122	107.536	1.00	0.00	H
ATOM	8792	SG	CYS	X	752	60.106	81.378	108.967	1.00	0.00	S
ATOM	8793	HG	CYS	X	752	59.338	80.501	109.621	1.00	0.00	H
ATOM	8794	C	CYS	X	752	56.909	84.114	108.546	1.00	0.00	C
ATOM	8795	O	CYS	X	752	57.450	84.912	107.715	1.00	0.00	O
ATOM	8796	N	GLY	X	753	55.610	84.145	108.779	1.00	0.00	N
ATOM	8797	H	GLY	X	753	55.197	83.475	109.411	1.00	0.00	H
ATOM	8798	CA	GLY	X	753	54.699	85.143	108.125	1.00	0.00	C
ATOM	8799	HA2	GLY	X	753	53.826	85.258	108.766	1.00	0.00	H
ATOM	8800	HA3	GLY	X	753	55.258	86.075	108.046	1.00	0.00	H
ATOM	8801	C	GLY	X	753	54.213	84.749	106.742	1.00	0.00	C
ATOM	8802	O	GLY	X	753	54.110	85.609	105.871	1.00	0.00	O
ATOM	8803	N	VAL	X	754	53.974	83.531	106.367	1.00	0.00	N
ATOM	8804	H	VAL	X	754	54.178	82.787	107.016	1.00	0.00	H
ATOM	8805	CA	VAL	X	754	53.498	83.118	105.002	1.00	0.00	C
ATOM	8806	HA	VAL	X	754	53.809	83.872	104.280	1.00	0.00	H
ATOM	8807	CB	VAL	X	754	53.915	81.665	104.788	1.00	0.00	C
ATOM	8808	HB	VAL	X	754	53.484	80.927	105.464	1.00	0.00	H
ATOM	8809	CG1	VAL	X	754	53.434	81.277	103.375	1.00	0.00	C
ATOM	8810	HG11	VAL	X	754	53.746	81.969	102.590	1.00	0.00	H
ATOM	8811	HG12	VAL	X	754	53.789	80.277	103.130	1.00	0.00	H
ATOM	8812	HG13	VAL	X	754	52.351	81.189	103.303	1.00	0.00	H
ATOM	8813	CG2	VAL	X	754	55.398	81.597	104.810	1.00	0.00	C
ATOM	8814	HG21	VAL	X	754	55.711	81.640	105.854	1.00	0.00	H
ATOM	8815	HG22	VAL	X	754	55.731	80.687	104.312	1.00	0.00	H
ATOM	8816	HG23	VAL	X	754	55.716	82.392	104.135	1.00	0.00	H
ATOM	8817	C	VAL	X	754	51.985	83.315	105.041	1.00	0.00	C
ATOM	8818	O	VAL	X	754	51.331	82.720	105.902	1.00	0.00	O
ATOM	8819	N	GLY	X	755	51.427	84.021	104.089	1.00	0.00	N
ATOM	8820	H	GLY	X	755	51.968	84.583	103.447	1.00	0.00	H
ATOM	8821	CA	GLY	X	755	50.069	83.823	103.694	1.00	0.00	C
ATOM	8822	HA2	GLY	X	755	49.491	83.008	104.130	1.00	0.00	H
ATOM	8823	HA3	GLY	X	755	49.568	84.778	103.848	1.00	0.00	H
ATOM	8824	C	GLY	X	755	50.012	83.556	102.186	1.00	0.00	C
ATOM	8825	O	GLY	X	755	51.006	83.052	101.600	1.00	0.00	O
ATOM	8826	N	PRO	X	756	48.817	83.823	101.544	1.00	0.00	N
ATOM	8827	CD	PRO	X	756	47.566	84.149	102.229	1.00	0.00	C
ATOM	8828	HD2	PRO	X	756	47.474	85.187	102.548	1.00	0.00	H
ATOM	8829	HD3	PRO	X	756	47.465	83.538	103.125	1.00	0.00	H
ATOM	8830	CG	PRO	X	756	46.408	83.826	101.285	1.00	0.00	C
ATOM	8831	HG2	PRO	X	756	45.516	84.410	101.510	1.00	0.00	H
ATOM	8832	HG3	PRO	X	756	46.088	82.784	101.313	1.00	0.00	H
ATOM	8833	CB	PRO	X	756	47.040	84.138	99.895	1.00	0.00	C
ATOM	8834	HB2	PRO	X	756	46.980	85.226	99.859	1.00	0.00	H
ATOM	8835	HB3	PRO	X	756	46.514	83.615	99.096	1.00	0.00	H
ATOM	8836	CA	PRO	X	756	48.533	83.685	100.063	1.00	0.00	C
ATOM	8837	HA	PRO	X	756	48.678	82.628	99.843	1.00	0.00	H
ATOM	8838	C	PRO	X	756	49.490	84.453	99.081	1.00	0.00	C
ATOM	8839	O	PRO	X	756	49.854	83.874	98.013	1.00	0.00	O
ATOM	8840	N	ALA	X	757	49.839	85.605	99.566	1.00	0.00	N
ATOM	8841	H	ALA	X	757	49.469	85.885	100.463	1.00	0.00	H
ATOM	8842	CA	ALA	X	757	50.784	86.475	98.907	1.00	0.00	C
ATOM	8843	HA	ALA	X	757	50.498	86.522	97.857	1.00	0.00	H
ATOM	8844	CB	ALA	X	757	50.622	87.904	99.494	1.00	0.00	C
ATOM	8845	HB1	ALA	X	757	50.978	88.643	98.777	1.00	0.00	H
ATOM	8846	HB2	ALA	X	757	49.588	88.207	99.662	1.00	0.00	H
ATOM	8847	HB3	ALA	X	757	51.122	88.089	100.445	1.00	0.00	H
ATOM	8848	C	ALA	X	757	52.202	85.909	98.940	1.00	0.00	C
ATOM	8849	O	ALA	X	757	52.868	85.875	97.913	1.00	0.00	O
ATOM	8850	N	GLU	X	758	52.687	85.403	100.027	1.00	0.00	N
ATOM	8851	H	GLU	X	758	52.116	85.330	100.857	1.00	0.00	H
ATOM	8852	CA	GLU	X	758	54.009	84.785	100.031	1.00	0.00	C
ATOM	8853	HA	GLU	X	758	54.801	85.389	99.587	1.00	0.00	H
ATOM	8854	CB	GLU	X	758	54.494	84.636	101.412	1.00	0.00	C

ATOM	8855	HB2	GLU	X	758	53.694	84.236	102.034	1.00	0.00	H
ATOM	8856	HB3	GLU	X	758	55.381	84.004	101.363	1.00	0.00	H
ATOM	8857	CG	GLU	X	758	54.895	85.923	102.054	1.00	0.00	C
ATOM	8858	HG2	GLU	X	758	55.548	85.685	102.893	1.00	0.00	H
ATOM	8859	HG3	GLU	X	758	55.502	86.597	101.449	1.00	0.00	H
ATOM	8860	CD	GLU	X	758	53.849	86.845	102.661	1.00	0.00	C
ATOM	8861	OE1	GLU	X	758	54.201	88.000	102.919	1.00	0.00	O
ATOM	8862	OE2	GLU	X	758	52.718	86.385	102.949	1.00	0.00	O
ATOM	8863	C	GLU	X	758	53.951	83.458	99.260	1.00	0.00	C
ATOM	8864	O	GLU	X	758	54.841	83.327	98.437	1.00	0.00	O
ATOM	8865	N	CYS	X	759	52.950	82.609	99.284	1.00	0.00	N
ATOM	8866	H	CYS	X	759	52.175	82.793	99.907	1.00	0.00	H
ATOM	8867	CA	CYS	X	759	52.709	81.473	98.315	1.00	0.00	C
ATOM	8868	HA	CYS	X	759	53.480	80.716	98.456	1.00	0.00	H
ATOM	8869	CB	CYS	X	759	51.430	80.746	98.762	1.00	0.00	C
ATOM	8870	HB2	CYS	X	759	50.664	81.484	99.002	1.00	0.00	H
ATOM	8871	HB3	CYS	X	759	51.034	80.210	97.899	1.00	0.00	H
ATOM	8872	SG	CYS	X	759	51.707	79.677	100.181	1.00	0.00	S
ATOM	8873	HG	CYS	X	759	51.169	80.587	100.998	1.00	0.00	H
ATOM	8874	C	CYS	X	759	52.761	81.875	96.910	1.00	0.00	C
ATOM	8875	O	CYS	X	759	53.407	81.140	96.173	1.00	0.00	O
ATOM	8876	N	ALA	X	760	52.250	83.010	96.466	1.00	0.00	N
ATOM	8877	H	ALA	X	760	51.753	83.638	97.081	1.00	0.00	H
ATOM	8878	CA	ALA	X	760	52.451	83.529	95.103	1.00	0.00	C
ATOM	8879	HA	ALA	X	760	52.338	82.735	94.365	1.00	0.00	H
ATOM	8880	CB	ALA	X	760	51.435	84.575	94.735	1.00	0.00	C
ATOM	8881	HB1	ALA	X	760	51.377	85.442	95.395	1.00	0.00	H
ATOM	8882	HB2	ALA	X	760	51.585	84.976	93.732	1.00	0.00	H
ATOM	8883	HB3	ALA	X	760	50.465	84.078	94.739	1.00	0.00	H
ATOM	8884	C	ALA	X	760	53.938	84.064	94.846	1.00	0.00	C
ATOM	8885	O	ALA	X	760	54.385	83.855	93.700	1.00	0.00	O
ATOM	8886	N	ALA	X	761	54.634	84.724	95.772	1.00	0.00	N
ATOM	8887	H	ALA	X	761	54.170	84.789	96.666	1.00	0.00	H
ATOM	8888	CA	ALA	X	761	56.064	84.953	95.619	1.00	0.00	C
ATOM	8889	HA	ALA	X	761	56.280	85.482	94.690	1.00	0.00	H
ATOM	8890	CB	ALA	X	761	56.342	85.913	96.771	1.00	0.00	C
ATOM	8891	HB1	ALA	X	761	57.412	86.119	96.755	1.00	0.00	H
ATOM	8892	HB2	ALA	X	761	55.825	86.852	96.574	1.00	0.00	H
ATOM	8893	HB3	ALA	X	761	56.066	85.466	97.726	1.00	0.00	H
ATOM	8894	C	ALA	X	761	56.861	83.659	95.554	1.00	0.00	C
ATOM	8895	O	ALA	X	761	57.644	83.480	94.643	1.00	0.00	O
ATOM	8896	N	LEU	X	762	56.604	82.708	96.427	1.00	0.00	N
ATOM	8897	H	LEU	X	762	55.924	82.896	97.150	1.00	0.00	H
ATOM	8898	CA	LEU	X	762	57.225	81.376	96.313	1.00	0.00	C
ATOM	8899	HA	LEU	X	762	58.291	81.594	96.379	1.00	0.00	H
ATOM	8900	CB	LEU	X	762	56.772	80.364	97.417	1.00	0.00	C
ATOM	8901	HB2	LEU	X	762	55.696	80.238	97.304	1.00	0.00	H
ATOM	8902	HB3	LEU	X	762	57.241	79.384	97.320	1.00	0.00	H
ATOM	8903	CG	LEU	X	762	57.290	80.753	98.882	1.00	0.00	C
ATOM	8904	HG	LEU	X	762	57.057	81.808	99.018	1.00	0.00	H
ATOM	8905	CD1	LEU	X	762	56.508	80.067	99.979	1.00	0.00	C
ATOM	8906	HD11	LEU	X	762	56.635	80.461	100.988	1.00	0.00	H
ATOM	8907	HD12	LEU	X	762	55.467	80.042	99.658	1.00	0.00	H
ATOM	8908	HD13	LEU	X	762	56.860	79.044	100.119	1.00	0.00	H
ATOM	8909	CD2	LEU	X	762	58.808	80.697	99.150	1.00	0.00	C
ATOM	8910	HD21	LEU	X	762	59.150	79.661	99.137	1.00	0.00	H
ATOM	8911	HD22	LEU	X	762	59.411	81.373	98.545	1.00	0.00	H
ATOM	8912	HD23	LEU	X	762	58.902	80.887	100.220	1.00	0.00	H
ATOM	8913	C	LEU	X	762	56.897	80.721	94.933	1.00	0.00	C
ATOM	8914	O	LEU	X	762	57.819	80.201	94.321	1.00	0.00	O
ATOM	8915	N	ALA	X	763	55.666	80.741	94.313	1.00	0.00	N
ATOM	8916	H	ALA	X	763	54.862	81.009	94.862	1.00	0.00	H
ATOM	8917	CA	ALA	X	763	55.580	80.275	92.932	1.00	0.00	C
ATOM	8918	HA	ALA	X	763	55.926	79.242	92.933	1.00	0.00	H
ATOM	8919	CB	ALA	X	763	54.076	80.321	92.605	1.00	0.00	C
ATOM	8920	HB1	ALA	X	763	53.529	79.827	93.408	1.00	0.00	H
ATOM	8921	HB2	ALA	X	763	53.748	81.357	92.686	1.00	0.00	H
ATOM	8922	HB3	ALA	X	763	53.834	79.890	91.633	1.00	0.00	H
ATOM	8923	C	ALA	X	763	56.370	81.182	91.889	1.00	0.00	C
ATOM	8924	O	ALA	X	763	57.200	80.552	91.174	1.00	0.00	O
ATOM	8925	N	PHE	X	764	56.253	82.579	91.922	1.00	0.00	N
ATOM	8926	H	PHE	X	764	55.662	82.948	92.654	1.00	0.00	H
ATOM	8927	CA	PHE	X	764	57.039	83.473	91.037	1.00	0.00	C
ATOM	8928	HA	PHE	X	764	56.578	83.503	90.051	1.00	0.00	H
ATOM	8929	CB	PHE	X	764	56.895	84.909	91.497	1.00	0.00	C
ATOM	8930	HB2	PHE	X	764	55.826	85.114	91.449	1.00	0.00	H
ATOM	8931	HB3	PHE	X	764	57.323	85.062	92.488	1.00	0.00	H
ATOM	8932	CG	PHE	X	764	57.528	86.039	90.719	1.00	0.00	C
ATOM	8933	CD1	PHE	X	764	57.044	86.513	89.446	1.00	0.00	C
ATOM	8934	HD1	PHE	X	764	56.200	85.996	89.015	1.00	0.00	H
ATOM	8935	CE1	PHE	X	764	57.757	87.571	88.883	1.00	0.00	C
ATOM	8936	HE1	PHE	X	764	57.584	87.785	87.839	1.00	0.00	H

ATOM	8937	CZ	PHE	X	764	58.898	88.163	89.431	1.00	0.00	C
ATOM	8938	HZ	PHE	X	764	59.557	88.867	88.945	1.00	0.00	H
ATOM	8939	CE2	PHE	X	764	59.343	87.725	90.695	1.00	0.00	C
ATOM	8940	HE2	PHE	X	764	60.174	88.264	91.126	1.00	0.00	H
ATOM	8941	CD2	PHE	X	764	58.687	86.642	91.284	1.00	0.00	C
ATOM	8942	HD2	PHE	X	764	59.039	86.345	92.261	1.00	0.00	H
ATOM	8943	C	PHE	X	764	58.537	83.150	90.968	1.00	0.00	C
ATOM	8944	O	PHE	X	764	59.160	83.086	89.914	1.00	0.00	O
ATOM	8945	N	VAL	X	765	59.146	82.835	92.137	1.00	0.00	N
ATOM	8946	H	VAL	X	765	58.557	82.942	92.950	1.00	0.00	H
ATOM	8947	CA	VAL	X	765	60.668	82.571	92.285	1.00	0.00	C
ATOM	8948	HA	VAL	X	765	61.161	83.143	91.500	1.00	0.00	H
ATOM	8949	CB	VAL	X	765	61.138	82.964	93.652	1.00	0.00	C
ATOM	8950	HB	VAL	X	765	60.688	82.386	94.460	1.00	0.00	H
ATOM	8951	CG1	VAL	X	765	62.602	82.691	93.671	1.00	0.00	C
ATOM	8952	HG11	VAL	X	765	62.852	81.633	93.579	1.00	0.00	H
ATOM	8953	HG12	VAL	X	765	63.104	83.309	92.927	1.00	0.00	H
ATOM	8954	HG13	VAL	X	765	63.013	83.001	94.631	1.00	0.00	H
ATOM	8955	CG2	VAL	X	765	60.859	84.504	93.949	1.00	0.00	C
ATOM	8956	HG21	VAL	X	765	61.446	84.893	94.781	1.00	0.00	H
ATOM	8957	HG22	VAL	X	765	61.198	84.993	93.036	1.00	0.00	H
ATOM	8958	HG23	VAL	X	765	59.825	84.792	94.146	1.00	0.00	H
ATOM	8959	C	VAL	X	765	60.981	81.051	91.983	1.00	0.00	C
ATOM	8960	O	VAL	X	765	61.953	80.756	91.225	1.00	0.00	O
ATOM	8961	N	LEU	X	766	60.165	80.107	92.490	1.00	0.00	N
ATOM	8962	H	LEU	X	766	59.332	80.432	92.961	1.00	0.00	H
ATOM	8963	CA	LEU	X	766	60.470	78.680	92.461	1.00	0.00	C
ATOM	8964	HA	LEU	X	766	61.553	78.589	92.550	1.00	0.00	H
ATOM	8965	CB	LEU	X	766	60.008	77.964	93.766	1.00	0.00	C
ATOM	8966	HB2	LEU	X	766	58.927	77.913	93.893	1.00	0.00	H
ATOM	8967	HB3	LEU	X	766	60.362	76.933	93.780	1.00	0.00	H
ATOM	8968	CG	LEU	X	766	60.563	78.651	95.039	1.00	0.00	C
ATOM	8969	HG	LEU	X	766	60.153	79.659	95.089	1.00	0.00	H
ATOM	8970	CD1	LEU	X	766	59.906	77.879	96.211	1.00	0.00	C
ATOM	8971	HD11	LEU	X	766	58.817	77.936	96.203	1.00	0.00	H
ATOM	8972	HD12	LEU	X	766	60.196	76.829	96.178	1.00	0.00	H
ATOM	8973	HD13	LEU	X	766	60.272	78.272	97.158	1.00	0.00	H
ATOM	8974	CD2	LEU	X	766	62.104	78.581	95.154	1.00	0.00	C
ATOM	8975	HD21	LEU	X	766	62.463	78.876	96.141	1.00	0.00	H
ATOM	8976	HD22	LEU	X	766	62.394	77.534	95.073	1.00	0.00	H
ATOM	8977	HD23	LEU	X	766	62.615	79.161	94.384	1.00	0.00	H
ATOM	8978	C	LEU	X	766	60.049	77.934	91.251	1.00	0.00	C
ATOM	8979	O	LEU	X	766	60.511	76.765	91.012	1.00	0.00	O
ATOM	8980	N	ARG	X	767	59.244	78.551	90.299	1.00	0.00	N
ATOM	8981	H	ARG	X	767	58.746	79.396	90.542	1.00	0.00	H
ATOM	8982	CA	ARG	X	767	59.032	78.033	88.933	1.00	0.00	C
ATOM	8983	HA	ARG	X	767	58.673	77.005	88.973	1.00	0.00	H
ATOM	8984	CB	ARG	X	767	57.889	78.857	88.237	1.00	0.00	C
ATOM	8985	HB2	ARG	X	767	57.753	78.538	87.203	1.00	0.00	H
ATOM	8986	HB3	ARG	X	767	56.901	78.707	88.674	1.00	0.00	H
ATOM	8987	CG	ARG	X	767	58.185	80.396	88.263	1.00	0.00	C
ATOM	8988	HG2	ARG	X	767	58.479	80.741	89.253	1.00	0.00	H
ATOM	8989	HG3	ARG	X	767	58.936	80.649	87.515	1.00	0.00	H
ATOM	8990	CD	ARG	X	767	56.993	81.264	87.905	1.00	0.00	C
ATOM	8991	HD2	ARG	X	767	56.559	80.905	86.970	1.00	0.00	H
ATOM	8992	HD3	ARG	X	767	56.268	81.215	88.717	1.00	0.00	H
ATOM	8993	NE	ARG	X	767	57.517	82.628	87.644	1.00	0.00	N
ATOM	8994	HE	ARG	X	767	58.207	83.008	88.275	1.00	0.00	H
ATOM	8995	CZ	ARG	X	767	56.966	83.457	86.719	1.00	0.00	C
ATOM	8996	NH1	ARG	X	767	56.038	83.103	85.904	1.00	0.00	N
ATOM	8997	HH11	ARG	X	767	55.727	82.147	85.992	1.00	0.00	H
ATOM	8998	HH12	ARG	X	767	55.812	83.770	85.180	1.00	0.00	H
ATOM	8999	NH2	ARG	X	767	57.457	84.688	86.640	1.00	0.00	N
ATOM	9000	HH21	ARG	X	767	58.164	84.980	87.301	1.00	0.00	H
ATOM	9001	HH22	ARG	X	767	57.064	85.353	85.990	1.00	0.00	H
ATOM	9002	C	ARG	X	767	60.259	78.042	88.100	1.00	0.00	C
ATOM	9003	O	ARG	X	767	60.329	77.288	87.121	1.00	0.00	O
ATOM	9004	N	HIE	X	768	61.275	78.807	88.513	1.00	0.00	N
ATOM	9005	H	HIE	X	768	61.245	79.361	89.357	1.00	0.00	H
ATOM	9006	CA	HIE	X	768	62.562	78.747	87.890	1.00	0.00	C
ATOM	9007	HA	HIE	X	768	62.542	78.591	86.811	1.00	0.00	H
ATOM	9008	CB	HIE	X	768	63.171	80.054	88.040	1.00	0.00	C
ATOM	9009	HB2	HIE	X	768	63.379	80.345	89.070	1.00	0.00	H
ATOM	9010	HB3	HIE	X	768	64.175	80.128	87.622	1.00	0.00	H
ATOM	9011	CG	HIE	X	768	62.420	81.237	87.488	1.00	0.00	C
ATOM	9012	ND1	HIE	X	768	62.155	81.411	86.163	1.00	0.00	N
ATOM	9013	CE1	HIE	X	768	61.616	82.616	86.117	1.00	0.00	C
ATOM	9014	HE1	HIE	X	768	61.313	83.090	85.195	1.00	0.00	H
ATOM	9015	NE2	HIE	X	768	61.544	83.189	87.309	1.00	0.00	N
ATOM	9016	HE2	HIE	X	768	61.460	84.183	87.465	1.00	0.00	H
ATOM	9017	CD2	HIE	X	768	62.072	82.328	88.232	1.00	0.00	C
ATOM	9018	HD2	HIE	X	768	62.303	82.535	89.266	1.00	0.00	H

ATOM	9019	C	HIE	X	768	63.433	77.562	88.484	1.00	0.00	C
ATOM	9020	O	HIE	X	768	64.274	77.007	87.806	1.00	0.00	O
ATOM	9021	N	LEU	X	769	63.319	77.218	89.745	1.00	0.00	N
ATOM	9022	H	LEU	X	769	62.507	77.527	90.261	1.00	0.00	H
ATOM	9023	CA	LEU	X	769	64.064	76.105	90.489	1.00	0.00	C
ATOM	9024	HA	LEU	X	769	65.104	76.026	90.172	1.00	0.00	H
ATOM	9025	CB	LEU	X	769	63.875	76.264	92.041	1.00	0.00	C
ATOM	9026	HB2	LEU	X	769	64.287	77.227	92.347	1.00	0.00	H
ATOM	9027	HB3	LEU	X	769	62.862	76.330	92.437	1.00	0.00	H
ATOM	9028	CG	LEU	X	769	64.678	75.198	92.873	1.00	0.00	C
ATOM	9029	HG	LEU	X	769	64.268	74.278	92.458	1.00	0.00	H
ATOM	9030	CD1	LEU	X	769	66.161	75.388	92.781	1.00	0.00	C
ATOM	9031	HD11	LEU	X	769	66.475	75.142	91.766	1.00	0.00	H
ATOM	9032	HD12	LEU	X	769	66.502	76.378	93.085	1.00	0.00	H
ATOM	9033	HD13	LEU	X	769	66.625	74.653	93.438	1.00	0.00	H
ATOM	9034	CD2	LEU	X	769	64.204	75.263	94.265	1.00	0.00	C
ATOM	9035	HD21	LEU	X	769	64.466	74.277	94.650	1.00	0.00	H
ATOM	9036	HD22	LEU	X	769	64.675	75.990	94.926	1.00	0.00	H
ATOM	9037	HD23	LEU	X	769	63.140	75.482	94.345	1.00	0.00	H
ATOM	9038	C	LEU	X	769	63.432	74.719	90.077	1.00	0.00	C
ATOM	9039	O	LEU	X	769	62.378	74.272	90.606	1.00	0.00	O
ATOM	9040	N	ARG	X	770	64.079	73.970	89.163	1.00	0.00	N
ATOM	9041	H	ARG	X	770	64.834	74.410	88.657	1.00	0.00	H
ATOM	9042	CA	ARG	X	770	63.727	72.644	88.690	1.00	0.00	C
ATOM	9043	HA	ARG	X	770	62.692	72.396	88.927	1.00	0.00	H
ATOM	9044	CB	ARG	X	770	63.936	72.473	87.124	1.00	0.00	C
ATOM	9045	HB2	ARG	X	770	65.014	72.370	87.006	1.00	0.00	H
ATOM	9046	HB3	ARG	X	770	63.530	71.550	86.711	1.00	0.00	H
ATOM	9047	CG	ARG	X	770	63.354	73.591	86.283	1.00	0.00	C
ATOM	9048	HG2	ARG	X	770	62.434	73.180	85.864	1.00	0.00	H
ATOM	9049	HG3	ARG	X	770	63.128	74.497	86.845	1.00	0.00	H
ATOM	9050	CD	ARG	X	770	64.383	73.996	85.190	1.00	0.00	C
ATOM	9051	HD2	ARG	X	770	64.199	74.979	84.758	1.00	0.00	H
ATOM	9052	HD3	ARG	X	770	65.363	74.089	85.657	1.00	0.00	H
ATOM	9053	NE	ARG	X	770	64.467	72.906	84.170	1.00	0.00	N
ATOM	9054	HE	ARG	X	770	63.549	72.562	83.926	1.00	0.00	H
ATOM	9055	CZ	ARG	X	770	65.562	72.187	83.737	1.00	0.00	C
ATOM	9056	NH1	ARG	X	770	66.778	72.520	84.034	1.00	0.00	N
ATOM	9057	HH11	ARG	X	770	66.812	73.151	84.822	1.00	0.00	H
ATOM	9058	HH12	ARG	X	770	67.585	72.008	83.703	1.00	0.00	H
ATOM	9059	NH2	ARG	X	770	65.402	71.167	83.008	1.00	0.00	N
ATOM	9060	HH21	ARG	X	770	64.481	70.751	82.986	1.00	0.00	H
ATOM	9061	HH22	ARG	X	770	66.203	70.553	83.006	1.00	0.00	H
ATOM	9062	C	ARG	X	770	64.547	71.593	89.493	1.00	0.00	C
ATOM	9063	O	ARG	X	770	64.214	70.433	89.393	1.00	0.00	O
ATOM	9064	N	ARG	X	771	65.567	72.058	90.278	1.00	0.00	N
ATOM	9065	H	ARG	X	771	65.851	73.001	90.062	1.00	0.00	H
ATOM	9066	CA	ARG	X	771	66.238	71.238	91.274	1.00	0.00	C
ATOM	9067	HA	ARG	X	771	66.623	70.360	90.756	1.00	0.00	H
ATOM	9068	CB	ARG	X	771	67.500	71.919	91.788	1.00	0.00	C
ATOM	9069	HB2	ARG	X	771	67.939	72.388	90.907	1.00	0.00	H
ATOM	9070	HB3	ARG	X	771	67.291	72.739	92.476	1.00	0.00	H
ATOM	9071	CG	ARG	X	771	68.510	71.002	92.433	1.00	0.00	C
ATOM	9072	HG2	ARG	X	771	68.260	70.708	93.452	1.00	0.00	H
ATOM	9073	HG3	ARG	X	771	68.718	70.138	91.800	1.00	0.00	H
ATOM	9074	CD	ARG	X	771	69.837	71.779	92.655	1.00	0.00	C
ATOM	9075	HD2	ARG	X	771	70.351	72.036	91.730	1.00	0.00	H
ATOM	9076	HD3	ARG	X	771	69.678	72.762	93.097	1.00	0.00	H
ATOM	9077	NE	ARG	X	771	70.771	70.982	93.432	1.00	0.00	N
ATOM	9078	HE	ARG	X	771	71.548	70.559	92.944	1.00	0.00	H
ATOM	9079	CZ	ARG	X	771	70.811	70.942	94.743	1.00	0.00	C
ATOM	9080	NH1	ARG	X	771	69.837	71.336	95.495	1.00	0.00	N
ATOM	9081	HH11	ARG	X	771	68.927	71.568	95.124	1.00	0.00	H
ATOM	9082	HH12	ARG	X	771	69.902	71.056	96.464	1.00	0.00	H
ATOM	9083	NH2	ARG	X	771	71.842	70.452	95.381	1.00	0.00	N
ATOM	9084	HH21	ARG	X	771	72.633	70.081	94.873	1.00	0.00	H
ATOM	9085	HH22	ARG	X	771	71.743	70.232	96.362	1.00	0.00	H
ATOM	9086	C	ARG	X	771	65.217	70.987	92.459	1.00	0.00	C
ATOM	9087	O	ARG	X	771	64.637	71.870	93.045	1.00	0.00	O
ATOM	9088	N	PRO	X	772	64.995	69.679	92.803	1.00	0.00	N
ATOM	9089	CD	PRO	X	772	65.612	68.507	92.323	1.00	0.00	C
ATOM	9090	HD2	PRO	X	772	66.696	68.461	92.427	1.00	0.00	H
ATOM	9091	HD3	PRO	X	772	65.299	68.450	91.281	1.00	0.00	H
ATOM	9092	CG	PRO	X	772	65.039	67.336	93.119	1.00	0.00	C
ATOM	9093	HG2	PRO	X	772	65.605	67.353	94.050	1.00	0.00	H
ATOM	9094	HG3	PRO	X	772	65.073	66.384	92.590	1.00	0.00	H
ATOM	9095	CB	PRO	X	772	63.652	67.796	93.493	1.00	0.00	C
ATOM	9096	HB2	PRO	X	772	63.237	67.186	94.298	1.00	0.00	H
ATOM	9097	HB3	PRO	X	772	62.966	67.778	92.646	1.00	0.00	H
ATOM	9098	CA	PRO	X	772	63.912	69.295	93.742	1.00	0.00	C
ATOM	9099	HA	PRO	X	772	62.979	69.669	93.320	1.00	0.00	H
ATOM	9100	C	PRO	X	772	64.123	69.668	95.197	1.00	0.00	C

ATOM	9101	O	PRO	X	772	65.220	69.631	95.831	1.00	0.00	O
ATOM	9102	N	VAL	X	773	63.081	70.135	95.810	1.00	0.00	N
ATOM	9103	H	VAL	X	773	62.182	70.152	95.350	1.00	0.00	H
ATOM	9104	CA	VAL	X	773	63.152	70.766	97.245	1.00	0.00	C
ATOM	9105	HA	VAL	X	773	63.993	70.449	97.861	1.00	0.00	H
ATOM	9106	CB	VAL	X	773	63.306	72.306	97.096	1.00	0.00	C
ATOM	9107	HB	VAL	X	773	63.918	72.498	96.215	1.00	0.00	H
ATOM	9108	CG1	VAL	X	773	61.935	72.984	96.815	1.00	0.00	C
ATOM	9109	HG11	VAL	X	773	61.274	72.780	97.659	1.00	0.00	H
ATOM	9110	HG12	VAL	X	773	61.969	74.061	96.651	1.00	0.00	H
ATOM	9111	HG13	VAL	X	773	61.531	72.512	95.919	1.00	0.00	H
ATOM	9112	CG2	VAL	X	773	63.927	73.095	98.290	1.00	0.00	C
ATOM	9113	HG21	VAL	X	773	64.114	74.113	97.947	1.00	0.00	H
ATOM	9114	HG22	VAL	X	773	63.211	73.080	99.112	1.00	0.00	H
ATOM	9115	HG23	VAL	X	773	64.860	72.553	98.441	1.00	0.00	H
ATOM	9116	C	VAL	X	773	62.002	70.392	98.060	1.00	0.00	C
ATOM	9117	O	VAL	X	773	60.990	69.849	97.652	1.00	0.00	O
ATOM	9118	N	ALA	X	774	62.179	70.518	99.411	1.00	0.00	N
ATOM	9119	H	ALA	X	774	63.128	70.547	99.751	1.00	0.00	H
ATOM	9120	CA	ALA	X	774	61.084	70.301	100.348	1.00	0.00	C
ATOM	9121	HA	ALA	X	774	60.219	69.895	99.822	1.00	0.00	H
ATOM	9122	CB	ALA	X	774	61.577	69.211	101.334	1.00	0.00	C
ATOM	9123	HB1	ALA	X	774	60.969	69.128	102.234	1.00	0.00	H
ATOM	9124	HB2	ALA	X	774	61.554	68.271	100.783	1.00	0.00	H
ATOM	9125	HB3	ALA	X	774	62.618	69.305	101.644	1.00	0.00	H
ATOM	9126	C	ALA	X	774	60.657	71.601	101.041	1.00	0.00	C
ATOM	9127	O	ALA	X	774	61.454	72.518	101.032	1.00	0.00	O
ATOM	9128	N	LEU	X	775	59.374	71.623	101.516	1.00	0.00	N
ATOM	9129	H	LEU	X	775	58.773	70.828	101.353	1.00	0.00	H
ATOM	9130	CA	LEU	X	775	58.828	72.767	102.184	1.00	0.00	C
ATOM	9131	HA	LEU	X	775	59.610	73.513	102.338	1.00	0.00	H
ATOM	9132	CB	LEU	X	775	57.763	73.371	101.270	1.00	0.00	C
ATOM	9133	HB2	LEU	X	775	56.969	72.651	101.071	1.00	0.00	H
ATOM	9134	HB3	LEU	X	775	57.241	74.144	101.832	1.00	0.00	H
ATOM	9135	CG	LEU	X	775	58.117	74.117	99.957	1.00	0.00	C
ATOM	9136	HG	LEU	X	775	58.784	73.515	99.338	1.00	0.00	H
ATOM	9137	CD1	LEU	X	775	56.883	74.446	99.153	1.00	0.00	C
ATOM	9138	HD11	LEU	X	775	56.245	73.588	98.937	1.00	0.00	H
ATOM	9139	HD12	LEU	X	775	56.290	75.134	99.755	1.00	0.00	H
ATOM	9140	HD13	LEU	X	775	57.239	74.949	98.254	1.00	0.00	H
ATOM	9141	CD2	LEU	X	775	58.913	75.428	100.338	1.00	0.00	C
ATOM	9142	HD21	LEU	X	775	59.520	75.271	101.229	1.00	0.00	H
ATOM	9143	HD22	LEU	X	775	59.515	75.672	99.463	1.00	0.00	H
ATOM	9144	HD23	LEU	X	775	58.212	76.254	100.456	1.00	0.00	H
ATOM	9145	C	LEU	X	775	58.132	72.333	103.436	1.00	0.00	C
ATOM	9146	O	LEU	X	775	57.216	71.487	103.479	1.00	0.00	O
ATOM	9147	N	GLN	X	776	58.383	73.089	104.507	1.00	0.00	N
ATOM	9148	H	GLN	X	776	59.067	73.828	104.432	1.00	0.00	H
ATOM	9149	CA	GLN	X	776	57.848	72.917	105.869	1.00	0.00	C
ATOM	9150	HA	GLN	X	776	57.099	72.125	105.922	1.00	0.00	H
ATOM	9151	CB	GLN	X	776	58.993	72.325	106.831	1.00	0.00	C
ATOM	9152	HB2	GLN	X	776	59.341	71.352	106.486	1.00	0.00	H
ATOM	9153	HB3	GLN	X	776	59.902	72.925	106.797	1.00	0.00	H
ATOM	9154	CG	GLN	X	776	58.420	71.974	108.207	1.00	0.00	C
ATOM	9155	HG2	GLN	X	776	57.801	72.798	108.558	1.00	0.00	H
ATOM	9156	HG3	GLN	X	776	57.650	71.220	108.048	1.00	0.00	H
ATOM	9157	CD	GLN	X	776	59.367	71.483	109.286	1.00	0.00	C
ATOM	9158	OE1	GLN	X	776	60.571	71.263	109.047	1.00	0.00	O
ATOM	9159	NE2	GLN	X	776	58.909	71.231	110.479	1.00	0.00	N
ATOM	9160	HE21	GLN	X	776	59.589	71.000	111.188	1.00	0.00	H
ATOM	9161	HE22	GLN	X	776	57.976	71.546	110.704	1.00	0.00	H
ATOM	9162	C	GLN	X	776	57.278	74.182	106.342	1.00	0.00	C
ATOM	9163	O	GLN	X	776	57.878	74.971	107.048	1.00	0.00	O
ATOM	9164	N	LEU	X	777	56.014	74.349	105.929	1.00	0.00	N
ATOM	9165	H	LEU	X	777	55.574	73.549	105.498	1.00	0.00	H
ATOM	9166	CA	LEU	X	777	55.214	75.535	106.044	1.00	0.00	C
ATOM	9167	HA	LEU	X	777	55.865	76.396	106.196	1.00	0.00	H
ATOM	9168	CB	LEU	X	777	54.241	75.736	104.848	1.00	0.00	C
ATOM	9169	HB2	LEU	X	777	53.381	75.070	104.925	1.00	0.00	H
ATOM	9170	HB3	LEU	X	777	53.762	76.711	104.767	1.00	0.00	H
ATOM	9171	CG	LEU	X	777	54.910	75.590	103.491	1.00	0.00	C
ATOM	9172	HG	LEU	X	777	55.332	74.593	103.360	1.00	0.00	H
ATOM	9173	CD1	LEU	X	777	54.011	76.013	102.284	1.00	0.00	C
ATOM	9174	HD11	LEU	X	777	53.548	76.994	102.384	1.00	0.00	H
ATOM	9175	HD12	LEU	X	777	54.634	76.002	101.390	1.00	0.00	H
ATOM	9176	HD13	LEU	X	777	53.234	75.260	102.149	1.00	0.00	H
ATOM	9177	CD2	LEU	X	777	56.135	76.543	103.418	1.00	0.00	C
ATOM	9178	HD21	LEU	X	777	56.908	76.343	104.159	1.00	0.00	H
ATOM	9179	HD22	LEU	X	777	56.709	76.345	102.514	1.00	0.00	H
ATOM	9180	HD23	LEU	X	777	55.662	77.521	103.511	1.00	0.00	H
ATOM	9181	C	LEU	X	777	54.450	75.673	107.402	1.00	0.00	C
ATOM	9182	O	LEU	X	777	53.452	76.380	107.530	1.00	0.00	O

ATOM	9183	N	ASP	X	778	54.919	74.927	108.407	1.00	0.00	N
ATOM	9184	H	ASP	X	778	55.689	74.283	108.289	1.00	0.00	H
ATOM	9185	CA	ASP	X	778	54.103	74.778	109.606	1.00	0.00	C
ATOM	9186	HA	ASP	X	778	53.084	74.462	109.384	1.00	0.00	H
ATOM	9187	CB	ASP	X	778	54.674	73.765	110.492	1.00	0.00	C
ATOM	9188	HB2	ASP	X	778	55.467	74.302	111.013	1.00	0.00	H
ATOM	9189	HB3	ASP	X	778	53.957	73.591	111.295	1.00	0.00	H
ATOM	9190	CG	ASP	X	778	55.057	72.406	109.927	1.00	0.00	C
ATOM	9191	OD1	ASP	X	778	54.237	71.746	109.241	1.00	0.00	O
ATOM	9192	OD2	ASP	X	778	56.181	71.942	110.187	1.00	0.00	O
ATOM	9193	C	ASP	X	778	53.895	76.080	110.381	1.00	0.00	C
ATOM	9194	O	ASP	X	778	54.663	77.044	110.371	1.00	0.00	O
ATOM	9195	N	HIE	X	779	52.873	76.020	111.246	1.00	0.00	N
ATOM	9196	H	HIE	X	779	52.301	75.195	111.126	1.00	0.00	H
ATOM	9197	CA	HIE	X	779	52.298	77.064	112.161	1.00	0.00	C
ATOM	9198	HA	HIE	X	779	51.298	76.762	112.468	1.00	0.00	H
ATOM	9199	CB	HIE	X	779	53.224	77.297	113.306	1.00	0.00	C
ATOM	9200	HB2	HIE	X	779	54.234	77.553	112.988	1.00	0.00	H
ATOM	9201	HB3	HIE	X	779	52.857	78.180	113.832	1.00	0.00	H
ATOM	9202	CG	HIE	X	779	53.339	76.256	114.300	1.00	0.00	C
ATOM	9203	ND1	HIE	X	779	54.067	76.347	115.454	1.00	0.00	N
ATOM	9204	CE1	HIE	X	779	53.939	75.107	115.983	1.00	0.00	C
ATOM	9205	HE1	HIE	X	779	54.290	74.658	116.901	1.00	0.00	H
ATOM	9206	NE2	HIE	X	779	53.231	74.292	115.250	1.00	0.00	N
ATOM	9207	HE2	HIE	X	779	53.151	73.303	115.440	1.00	0.00	H
ATOM	9208	CD2	HIE	X	779	52.752	75.058	114.196	1.00	0.00	C
ATOM	9209	HD2	HIE	X	779	52.237	74.821	113.277	1.00	0.00	H
ATOM	9210	C	HIE	X	779	51.969	78.431	111.476	1.00	0.00	C
ATOM	9211	O	HIE	X	779	51.377	79.343	112.054	1.00	0.00	O
ATOM	9212	N	ASN	X	780	52.300	78.598	110.194	1.00	0.00	N
ATOM	9213	H	ASN	X	780	52.704	77.792	109.740	1.00	0.00	H
ATOM	9214	CA	ASN	X	780	51.867	79.733	109.403	1.00	0.00	C
ATOM	9215	HA	ASN	X	780	52.102	80.712	109.820	1.00	0.00	H
ATOM	9216	CB	ASN	X	780	52.557	79.783	108.058	1.00	0.00	C
ATOM	9217	HB2	ASN	X	780	52.439	78.885	107.455	1.00	0.00	H
ATOM	9218	HB3	ASN	X	780	52.136	80.664	107.574	1.00	0.00	H
ATOM	9219	CG	ASN	X	780	54.083	79.992	108.208	1.00	0.00	C
ATOM	9220	OD1	ASN	X	780	54.634	81.125	108.087	1.00	0.00	O
ATOM	9221	ND2	ASN	X	780	54.906	78.952	108.341	1.00	0.00	N
ATOM	9222	HD21	ASN	X	780	55.889	79.132	108.197	1.00	0.00	H
ATOM	9223	HD22	ASN	X	780	54.511	78.023	108.335	1.00	0.00	H
ATOM	9224	C	ASN	X	780	50.274	79.684	109.156	1.00	0.00	C
ATOM	9225	O	ASN	X	780	49.659	78.604	108.972	1.00	0.00	O
ATOM	9226	N	SER	X	781	49.639	80.801	108.871	1.00	0.00	N
ATOM	9227	H	SER	X	781	50.115	81.690	108.828	1.00	0.00	H
ATOM	9228	CA	SER	X	781	48.245	80.878	108.370	1.00	0.00	C
ATOM	9229	HA	SER	X	781	47.779	79.992	108.802	1.00	0.00	H
ATOM	9230	CB	SER	X	781	47.527	81.997	109.140	1.00	0.00	C
ATOM	9231	HB2	SER	X	781	47.599	81.810	110.212	1.00	0.00	H
ATOM	9232	HB3	SER	X	781	47.893	82.989	108.882	1.00	0.00	H
ATOM	9233	OG	SER	X	781	46.172	81.863	108.817	1.00	0.00	O
ATOM	9234	HG	SER	X	781	45.920	82.317	108.010	1.00	0.00	H
ATOM	9235	C	SER	X	781	48.083	80.925	106.889	1.00	0.00	C
ATOM	9236	O	SER	X	781	47.598	81.875	106.299	1.00	0.00	O
ATOM	9237	N	VAL	X	782	48.549	79.841	106.289	1.00	0.00	N
ATOM	9238	H	VAL	X	782	48.895	79.089	106.869	1.00	0.00	H
ATOM	9239	CA	VAL	X	782	48.677	79.712	104.779	1.00	0.00	C
ATOM	9240	HA	VAL	X	782	49.073	80.650	104.388	1.00	0.00	H
ATOM	9241	CB	VAL	X	782	49.486	78.495	104.266	1.00	0.00	C
ATOM	9242	HB	VAL	X	782	49.010	77.636	104.740	1.00	0.00	H
ATOM	9243	CG1	VAL	X	782	49.396	78.356	102.737	1.00	0.00	C
ATOM	9244	HG11	VAL	X	782	48.440	77.925	102.435	1.00	0.00	H
ATOM	9245	HG12	VAL	X	782	49.580	79.319	102.260	1.00	0.00	H
ATOM	9246	HG13	VAL	X	782	50.210	77.671	102.499	1.00	0.00	H
ATOM	9247	CG2	VAL	X	782	50.973	78.594	104.647	1.00	0.00	C
ATOM	9248	HG21	VAL	X	782	51.598	77.859	104.143	1.00	0.00	H
ATOM	9249	HG22	VAL	X	782	51.335	79.585	104.369	1.00	0.00	H
ATOM	9250	HG23	VAL	X	782	51.102	78.520	105.727	1.00	0.00	H
ATOM	9251	C	VAL	X	782	47.284	79.737	104.128	1.00	0.00	C
ATOM	9252	O	VAL	X	782	47.006	80.562	103.193	1.00	0.00	O
ATOM	9253	N	GLY	X	783	46.386	78.935	104.728	1.00	0.00	N
ATOM	9254	H	GLY	X	783	46.708	78.328	105.468	1.00	0.00	H
ATOM	9255	CA	GLY	X	783	44.984	78.952	104.398	1.00	0.00	C
ATOM	9256	HA2	GLY	X	783	44.382	78.455	105.160	1.00	0.00	H
ATOM	9257	HA3	GLY	X	783	44.549	79.949	104.479	1.00	0.00	H
ATOM	9258	C	GLY	X	783	44.590	78.318	103.100	1.00	0.00	C
ATOM	9259	O	GLY	X	783	45.384	78.129	102.183	1.00	0.00	O
ATOM	9260	N	ASP	X	784	43.299	77.980	102.908	1.00	0.00	N
ATOM	9261	H	ASP	X	784	42.638	78.313	103.597	1.00	0.00	H
ATOM	9262	CA	ASP	X	784	42.653	77.622	101.624	1.00	0.00	C
ATOM	9263	HA	ASP	X	784	42.940	76.590	101.422	1.00	0.00	H
ATOM	9264	CB	ASP	X	784	41.186	77.610	102.024	1.00	0.00	C

ATOM	9265	HB2	ASP	X	784	41.141	76.872	102.826	1.00	0.00	H
ATOM	9266	HB3	ASP	X	784	40.911	78.578	102.445	1.00	0.00	H
ATOM	9267	CG	ASP	X	784	40.211	77.184	100.844	1.00	0.00	C
ATOM	9268	OD1	ASP	X	784	39.028	77.401	101.022	1.00	0.00	O
ATOM	9269	OD2	ASP	X	784	40.579	76.369	99.987	1.00	0.00	O
ATOM	9270	C	ASP	X	784	43.090	78.501	100.424	1.00	0.00	C
ATOM	9271	O	ASP	X	784	43.613	78.083	99.421	1.00	0.00	O
ATOM	9272	N	ILE	X	785	42.886	79.798	100.569	1.00	0.00	N
ATOM	9273	H	ILE	X	785	42.646	80.114	101.497	1.00	0.00	H
ATOM	9274	CA	ILE	X	785	43.351	80.780	99.548	1.00	0.00	C
ATOM	9275	HA	ILE	X	785	42.978	80.459	98.575	1.00	0.00	H
ATOM	9276	CB	ILE	X	785	42.748	82.227	99.831	1.00	0.00	C
ATOM	9277	HB	ILE	X	785	43.147	82.635	100.759	1.00	0.00	H
ATOM	9278	CG2	ILE	X	785	43.108	83.277	98.792	1.00	0.00	C
ATOM	9279	HG21	ILE	X	785	42.632	82.971	97.860	1.00	0.00	H
ATOM	9280	HG22	ILE	X	785	42.872	84.315	99.024	1.00	0.00	H
ATOM	9281	HG23	ILE	X	785	44.196	83.295	98.710	1.00	0.00	H
ATOM	9282	CG1	ILE	X	785	41.203	82.223	99.972	1.00	0.00	C
ATOM	9283	HG12	ILE	X	785	40.707	81.917	99.049	1.00	0.00	H
ATOM	9284	HG13	ILE	X	785	40.799	81.602	100.770	1.00	0.00	H
ATOM	9285	CD1	ILE	X	785	40.602	83.625	100.329	1.00	0.00	C
ATOM	9286	HD11	ILE	X	785	40.232	84.087	99.414	1.00	0.00	H
ATOM	9287	HD12	ILE	X	785	39.747	83.449	100.982	1.00	0.00	H
ATOM	9288	HD13	ILE	X	785	41.274	84.336	100.808	1.00	0.00	H
ATOM	9289	C	ILE	X	785	44.862	80.754	99.178	1.00	0.00	C
ATOM	9290	O	ILE	X	785	45.154	80.998	98.020	1.00	0.00	O
ATOM	9291	N	GLY	X	786	45.740	80.331	100.118	1.00	0.00	N
ATOM	9292	H	GLY	X	786	45.403	79.953	100.991	1.00	0.00	H
ATOM	9293	CA	GLY	X	786	47.179	80.318	99.939	1.00	0.00	C
ATOM	9294	HA2	GLY	X	786	47.307	81.139	99.233	1.00	0.00	H
ATOM	9295	HA3	GLY	X	786	47.601	80.310	100.944	1.00	0.00	H
ATOM	9296	C	GLY	X	786	47.765	79.029	99.245	1.00	0.00	C
ATOM	9297	O	GLY	X	786	48.663	79.156	98.400	1.00	0.00	O
ATOM	9298	N	VAL	X	787	47.236	77.855	99.606	1.00	0.00	N
ATOM	9299	H	VAL	X	787	46.507	77.916	100.302	1.00	0.00	H
ATOM	9300	CA	VAL	X	787	47.702	76.625	99.134	1.00	0.00	C
ATOM	9301	HA	VAL	X	787	48.763	76.467	99.323	1.00	0.00	H
ATOM	9302	CB	VAL	X	787	47.030	75.464	100.036	1.00	0.00	C
ATOM	9303	HB	VAL	X	787	47.427	75.685	101.027	1.00	0.00	H
ATOM	9304	CG1	VAL	X	787	45.521	75.507	100.098	1.00	0.00	C
ATOM	9305	HG11	VAL	X	787	45.285	76.572	100.084	1.00	0.00	H
ATOM	9306	HG12	VAL	X	787	45.003	74.940	99.326	1.00	0.00	H
ATOM	9307	HG13	VAL	X	787	45.280	75.091	101.076	1.00	0.00	H
ATOM	9308	CG2	VAL	X	787	47.382	74.014	99.734	1.00	0.00	C
ATOM	9309	HG21	VAL	X	787	46.902	73.312	100.415	1.00	0.00	H
ATOM	9310	HG22	VAL	X	787	47.274	73.774	98.676	1.00	0.00	H
ATOM	9311	HG23	VAL	X	787	48.454	73.960	99.921	1.00	0.00	H
ATOM	9312	C	VAL	X	787	47.409	76.477	97.666	1.00	0.00	C
ATOM	9313	O	VAL	X	787	48.137	75.720	97.062	1.00	0.00	O
ATOM	9314	N	GLU	X	788	46.359	77.033	97.084	1.00	0.00	N
ATOM	9315	H	GLU	X	788	45.701	77.586	97.615	1.00	0.00	H
ATOM	9316	CA	GLU	X	788	46.281	77.147	95.600	1.00	0.00	C
ATOM	9317	HA	GLU	X	788	46.523	76.208	95.100	1.00	0.00	H
ATOM	9318	CB	GLU	X	788	44.836	77.559	95.263	1.00	0.00	C
ATOM	9319	HB2	GLU	X	788	44.247	76.779	95.748	1.00	0.00	H
ATOM	9320	HB3	GLU	X	788	44.532	78.500	95.722	1.00	0.00	H
ATOM	9321	CG	GLU	X	788	44.609	77.604	93.744	1.00	0.00	C
ATOM	9322	HG2	GLU	X	788	45.122	76.769	93.268	1.00	0.00	H
ATOM	9323	HG3	GLU	X	788	43.548	77.563	93.501	1.00	0.00	H
ATOM	9324	CD	GLU	X	788	45.059	78.905	93.040	1.00	0.00	C
ATOM	9325	OE1	GLU	X	788	45.452	78.892	91.838	1.00	0.00	O
ATOM	9326	OE2	GLU	X	788	45.006	79.972	93.676	1.00	0.00	O
ATOM	9327	C	GLU	X	788	47.322	78.089	94.970	1.00	0.00	C
ATOM	9328	O	GLU	X	788	47.727	77.860	93.820	1.00	0.00	O
ATOM	9329	N	GLN	X	789	47.838	79.101	95.658	1.00	0.00	N
ATOM	9330	H	GLN	X	789	47.511	79.168	96.612	1.00	0.00	H
ATOM	9331	CA	GLN	X	789	48.730	80.092	95.017	1.00	0.00	C
ATOM	9332	HA	GLN	X	789	48.432	80.241	93.977	1.00	0.00	H
ATOM	9333	CB	GLN	X	789	48.751	81.364	95.885	1.00	0.00	C
ATOM	9334	HB2	GLN	X	789	48.689	81.076	96.935	1.00	0.00	H
ATOM	9335	HB3	GLN	X	789	49.666	81.885	95.606	1.00	0.00	H
ATOM	9336	CG	GLN	X	789	47.542	82.241	95.606	1.00	0.00	C
ATOM	9337	HG2	GLN	X	789	46.636	81.745	95.952	1.00	0.00	H
ATOM	9338	HG3	GLN	X	789	47.681	83.148	96.195	1.00	0.00	H
ATOM	9339	CD	GLN	X	789	47.569	82.670	94.124	1.00	0.00	C
ATOM	9340	OE1	GLN	X	789	48.291	83.592	93.764	1.00	0.00	O
ATOM	9341	NE2	GLN	X	789	46.822	82.011	93.202	1.00	0.00	N
ATOM	9342	HE21	GLN	X	789	46.975	82.215	92.225	1.00	0.00	H
ATOM	9343	HE22	GLN	X	789	46.193	81.250	93.417	1.00	0.00	H
ATOM	9344	C	GLN	X	789	50.152	79.565	94.960	1.00	0.00	C
ATOM	9345	O	GLN	X	789	50.968	80.113	94.176	1.00	0.00	O
ATOM	9346	N	LEU	X	790	50.465	78.534	95.755	1.00	0.00	N

ATOM	9347	H	LEU	X	790	49.746	78.211	96.386	1.00	0.00	H
ATOM	9348	CA	LEU	X	790	51.787	77.958	95.767	1.00	0.00	C
ATOM	9349	HA	LEU	X	790	52.488	78.788	95.868	1.00	0.00	H
ATOM	9350	CB	LEU	X	790	51.795	77.154	97.138	1.00	0.00	C
ATOM	9351	HB2	LEU	X	790	51.630	77.815	97.989	1.00	0.00	H
ATOM	9352	HB3	LEU	X	790	51.060	76.364	96.992	1.00	0.00	H
ATOM	9353	CG	LEU	X	790	53.118	76.448	97.284	1.00	0.00	C
ATOM	9354	HG	LEU	X	790	53.502	75.844	96.464	1.00	0.00	H
ATOM	9355	CD1	LEU	X	790	54.188	77.462	97.532	1.00	0.00	C
ATOM	9356	HD11	LEU	X	790	53.862	77.978	98.435	1.00	0.00	H
ATOM	9357	HD12	LEU	X	790	55.069	76.835	97.669	1.00	0.00	H
ATOM	9358	HD13	LEU	X	790	54.408	78.252	96.814	1.00	0.00	H
ATOM	9359	CD2	LEU	X	790	52.952	75.510	98.440	1.00	0.00	C
ATOM	9360	HD21	LEU	X	790	53.865	74.965	98.679	1.00	0.00	H
ATOM	9361	HD22	LEU	X	790	52.719	76.147	99.292	1.00	0.00	H
ATOM	9362	HD23	LEU	X	790	52.228	74.705	98.307	1.00	0.00	H
ATOM	9363	C	LEU	X	790	52.154	77.171	94.528	1.00	0.00	C
ATOM	9364	O	LEU	X	790	53.305	77.061	94.111	1.00	0.00	O
ATOM	9365	N	LEU	X	791	51.034	76.472	94.074	1.00	0.00	N
ATOM	9366	H	LEU	X	791	50.205	76.620	94.634	1.00	0.00	H
ATOM	9367	CA	LEU	X	791	51.040	75.234	93.229	1.00	0.00	C
ATOM	9368	HA	LEU	X	791	51.393	74.479	93.930	1.00	0.00	H
ATOM	9369	CB	LEU	X	791	49.592	74.764	92.891	1.00	0.00	C
ATOM	9370	HB2	LEU	X	791	49.052	75.537	92.344	1.00	0.00	H
ATOM	9371	HB3	LEU	X	791	49.710	73.805	92.387	1.00	0.00	H
ATOM	9372	CG	LEU	X	791	48.624	74.453	94.035	1.00	0.00	C
ATOM	9373	HG	LEU	X	791	48.278	75.367	94.516	1.00	0.00	H
ATOM	9374	CD1	LEU	X	791	47.344	73.806	93.645	1.00	0.00	C
ATOM	9375	HD11	LEU	X	791	47.463	72.822	93.192	1.00	0.00	H
ATOM	9376	HD12	LEU	X	791	46.698	73.732	94.520	1.00	0.00	H
ATOM	9377	HD13	LEU	X	791	46.919	74.427	92.855	1.00	0.00	H
ATOM	9378	CD2	LEU	X	791	49.342	73.448	95.020	1.00	0.00	C
ATOM	9379	HD21	LEU	X	791	49.829	72.553	94.635	1.00	0.00	H
ATOM	9380	HD22	LEU	X	791	50.099	73.909	95.653	1.00	0.00	H
ATOM	9381	HD23	LEU	X	791	48.622	72.970	95.685	1.00	0.00	H
ATOM	9382	C	LEU	X	791	51.879	75.184	91.881	1.00	0.00	C
ATOM	9383	O	LEU	X	791	52.587	74.196	91.650	1.00	0.00	O
ATOM	9384	N	PRO	X	792	52.068	76.259	91.130	1.00	0.00	N
ATOM	9385	CD	PRO	X	792	51.322	77.584	91.102	1.00	0.00	C
ATOM	9386	HD2	PRO	X	792	51.627	78.258	91.904	1.00	0.00	H
ATOM	9387	HD3	PRO	X	792	50.251	77.511	91.294	1.00	0.00	H
ATOM	9388	CG	PRO	X	792	51.654	78.277	89.774	1.00	0.00	C
ATOM	9389	HG2	PRO	X	792	51.667	79.354	89.946	1.00	0.00	H
ATOM	9390	HG3	PRO	X	792	50.954	77.984	88.993	1.00	0.00	H
ATOM	9391	CB	PRO	X	792	52.973	77.728	89.441	1.00	0.00	C
ATOM	9392	HB2	PRO	X	792	53.709	78.317	89.988	1.00	0.00	H
ATOM	9393	HB3	PRO	X	792	53.198	77.748	88.374	1.00	0.00	H
ATOM	9394	CA	PRO	X	792	52.983	76.244	90.035	1.00	0.00	C
ATOM	9395	HA	PRO	X	792	52.617	75.564	89.267	1.00	0.00	H
ATOM	9396	C	PRO	X	792	54.528	75.914	90.446	1.00	0.00	C
ATOM	9397	O	PRO	X	792	55.409	75.644	89.609	1.00	0.00	O
ATOM	9398	N	CYS	X	793	54.850	75.716	91.719	1.00	0.00	N
ATOM	9399	H	CYS	X	793	54.182	75.998	92.422	1.00	0.00	H
ATOM	9400	CA	CYS	X	793	56.194	75.142	92.176	1.00	0.00	C
ATOM	9401	HA	CYS	X	793	56.784	75.068	91.264	1.00	0.00	H
ATOM	9402	CB	CYS	X	793	56.889	76.168	92.968	1.00	0.00	C
ATOM	9403	HB2	CYS	X	793	57.949	75.920	93.028	1.00	0.00	H
ATOM	9404	HB3	CYS	X	793	56.853	77.127	92.454	1.00	0.00	H
ATOM	9405	SG	CYS	X	793	56.220	76.153	94.642	1.00	0.00	S
ATOM	9406	HG	CYS	X	793	54.930	76.376	94.375	1.00	0.00	H
ATOM	9407	C	CYS	X	793	56.061	73.673	92.662	1.00	0.00	C
ATOM	9408	O	CYS	X	793	57.056	73.056	93.031	1.00	0.00	O
ATOM	9409	N	LEU	X	794	54.883	73.093	92.600	1.00	0.00	N
ATOM	9410	H	LEU	X	794	54.159	73.618	92.132	1.00	0.00	H
ATOM	9411	CA	LEU	X	794	54.711	71.721	93.092	1.00	0.00	C
ATOM	9412	HA	LEU	X	794	55.175	71.691	94.078	1.00	0.00	H
ATOM	9413	CB	LEU	X	794	53.202	71.387	93.339	1.00	0.00	C
ATOM	9414	HB2	LEU	X	794	52.702	72.323	93.589	1.00	0.00	H
ATOM	9415	HB3	LEU	X	794	52.642	71.058	92.464	1.00	0.00	H
ATOM	9416	CG	LEU	X	794	53.013	70.290	94.369	1.00	0.00	C
ATOM	9417	HG	LEU	X	794	53.982	70.066	94.813	1.00	0.00	H
ATOM	9418	CD1	LEU	X	794	52.083	70.667	95.492	1.00	0.00	C
ATOM	9419	HD11	LEU	X	794	52.333	71.642	95.911	1.00	0.00	H
ATOM	9420	HD12	LEU	X	794	51.031	70.685	95.207	1.00	0.00	H
ATOM	9421	HD13	LEU	X	794	52.188	69.894	96.253	1.00	0.00	H
ATOM	9422	CD2	LEU	X	794	52.473	68.963	93.778	1.00	0.00	C
ATOM	9423	HD21	LEU	X	794	51.454	69.128	93.429	1.00	0.00	H
ATOM	9424	HD22	LEU	X	794	53.065	68.579	92.947	1.00	0.00	H
ATOM	9425	HD23	LEU	X	794	52.551	68.196	94.549	1.00	0.00	H
ATOM	9426	C	LEU	X	794	55.349	70.586	92.282	1.00	0.00	C
ATOM	9427	O	LEU	X	794	55.776	69.559	92.898	1.00	0.00	O
ATOM	9428	N	GLY	X	795	55.596	70.747	90.949	1.00	0.00	N

ATOM	9429	H	GLY	X	795	55.246	71.591	90.521	1.00	0.00	H
ATOM	9430	CA	GLY	X	795	56.494	69.978	90.094	1.00	0.00	C
ATOM	9431	HA2	GLY	X	795	55.924	69.061	89.945	1.00	0.00	H
ATOM	9432	HA3	GLY	X	795	56.672	70.421	89.115	1.00	0.00	H
ATOM	9433	C	GLY	X	795	57.903	69.776	90.576	1.00	0.00	C
ATOM	9434	O	GLY	X	795	58.467	68.678	90.253	1.00	0.00	O
ATOM	9435	N	ALA	X	796	58.473	70.667	91.365	1.00	0.00	N
ATOM	9436	H	ALA	X	796	58.068	71.559	91.609	1.00	0.00	H
ATOM	9437	CA	ALA	X	796	59.677	70.323	92.114	1.00	0.00	C
ATOM	9438	HA	ALA	X	796	60.156	69.415	91.746	1.00	0.00	H
ATOM	9439	CB	ALA	X	796	60.741	71.420	91.883	1.00	0.00	C
ATOM	9440	HB1	ALA	X	796	60.311	72.336	92.287	1.00	0.00	H
ATOM	9441	HB2	ALA	X	796	61.687	71.213	92.382	1.00	0.00	H
ATOM	9442	HB3	ALA	X	796	60.863	71.484	90.802	1.00	0.00	H
ATOM	9443	C	ALA	X	796	59.547	69.996	93.614	1.00	0.00	C
ATOM	9444	O	ALA	X	796	60.561	69.765	94.221	1.00	0.00	O
ATOM	9445	N	CYS	X	797	58.358	70.106	94.176	1.00	0.00	N
ATOM	9446	H	CYS	X	797	57.556	70.247	93.577	1.00	0.00	H
ATOM	9447	CA	CYS	X	797	58.174	69.901	95.574	1.00	0.00	C
ATOM	9448	HA	CYS	X	797	59.063	70.238	96.107	1.00	0.00	H
ATOM	9449	CB	CYS	X	797	56.952	70.687	96.037	1.00	0.00	C
ATOM	9450	HB2	CYS	X	797	57.132	71.707	95.699	1.00	0.00	H
ATOM	9451	HB3	CYS	X	797	56.114	70.194	95.545	1.00	0.00	H
ATOM	9452	SG	CYS	X	797	56.850	70.569	97.896	1.00	0.00	S
ATOM	9453	HG	CYS	X	797	57.936	71.342	97.998	1.00	0.00	H
ATOM	9454	C	CYS	X	797	58.163	68.379	95.863	1.00	0.00	C
ATOM	9455	O	CYS	X	797	57.279	67.687	95.369	1.00	0.00	O
ATOM	9456	N	LYS	X	798	59.086	67.776	96.690	1.00	0.00	N
ATOM	9457	H	LYS	X	798	59.841	68.384	96.973	1.00	0.00	H
ATOM	9458	CA	LYS	X	798	59.152	66.348	96.919	1.00	0.00	C
ATOM	9459	HA	LYS	X	798	58.563	65.730	96.241	1.00	0.00	H
ATOM	9460	CB	LYS	X	798	60.568	65.861	96.679	1.00	0.00	C
ATOM	9461	HB2	LYS	X	798	60.614	64.788	96.862	1.00	0.00	H
ATOM	9462	HB3	LYS	X	798	60.876	65.823	95.635	1.00	0.00	H
ATOM	9463	CG	LYS	X	798	61.725	66.337	97.640	1.00	0.00	C
ATOM	9464	HG2	LYS	X	798	61.836	67.421	97.683	1.00	0.00	H
ATOM	9465	HG3	LYS	X	798	61.427	66.009	98.637	1.00	0.00	H
ATOM	9466	CD	LYS	X	798	63.137	65.783	97.265	1.00	0.00	C
ATOM	9467	HD2	LYS	X	798	62.984	64.735	97.011	1.00	0.00	H
ATOM	9468	HD3	LYS	X	798	63.477	66.458	96.480	1.00	0.00	H
ATOM	9469	CE	LYS	X	798	64.171	65.809	98.469	1.00	0.00	C
ATOM	9470	HE2	LYS	X	798	64.692	66.766	98.472	1.00	0.00	H
ATOM	9471	HE3	LYS	X	798	63.643	65.628	99.405	1.00	0.00	H
ATOM	9472	NZ	LYS	X	798	65.242	64.742	98.413	1.00	0.00	N
ATOM	9473	HZ1	LYS	X	798	64.980	63.770	98.342	1.00	0.00	H
ATOM	9474	HZ2	LYS	X	798	65.853	64.893	97.622	1.00	0.00	H
ATOM	9475	HZ3	LYS	X	798	65.855	64.918	99.196	1.00	0.00	H
ATOM	9476	C	LYS	X	798	58.603	65.921	98.291	1.00	0.00	C
ATOM	9477	O	LYS	X	798	58.019	64.866	98.491	1.00	0.00	O
ATOM	9478	N	ALA	X	799	58.654	66.886	99.265	1.00	0.00	N
ATOM	9479	H	ALA	X	799	59.012	67.795	99.005	1.00	0.00	H
ATOM	9480	CA	ALA	X	799	58.063	66.788	100.597	1.00	0.00	C
ATOM	9481	HA	ALA	X	799	57.238	66.076	100.609	1.00	0.00	H
ATOM	9482	CB	ALA	X	799	59.136	66.179	101.544	1.00	0.00	C
ATOM	9483	HB1	ALA	X	799	58.755	66.126	102.563	1.00	0.00	H
ATOM	9484	HB2	ALA	X	799	59.363	65.151	101.258	1.00	0.00	H
ATOM	9485	HB3	ALA	X	799	60.004	66.833	101.453	1.00	0.00	H
ATOM	9486	C	ALA	X	799	57.434	68.054	101.121	1.00	0.00	C
ATOM	9487	O	ALA	X	799	57.878	69.168	100.827	1.00	0.00	O
ATOM	9488	N	LEU	X	800	56.353	67.916	102.030	1.00	0.00	N
ATOM	9489	H	LEU	X	800	55.876	67.028	102.078	1.00	0.00	H
ATOM	9490	CA	LEU	X	800	55.498	69.043	102.384	1.00	0.00	C
ATOM	9491	HA	LEU	X	800	56.158	69.910	102.333	1.00	0.00	H
ATOM	9492	CB	LEU	X	800	54.537	69.100	101.168	1.00	0.00	C
ATOM	9493	HB2	LEU	X	800	55.070	69.100	100.217	1.00	0.00	H
ATOM	9494	HB3	LEU	X	800	53.887	68.230	101.252	1.00	0.00	H
ATOM	9495	CG	LEU	X	800	53.487	70.251	101.185	1.00	0.00	C
ATOM	9496	HG	LEU	X	800	52.751	70.179	101.986	1.00	0.00	H
ATOM	9497	CD1	LEU	X	800	54.190	71.562	101.454	1.00	0.00	C
ATOM	9498	HD11	LEU	X	800	54.549	71.686	102.475	1.00	0.00	H
ATOM	9499	HD12	LEU	X	800	55.000	71.610	100.724	1.00	0.00	H
ATOM	9500	HD13	LEU	X	800	53.494	72.346	101.155	1.00	0.00	H
ATOM	9501	CD2	LEU	X	800	52.608	70.293	99.859	1.00	0.00	C
ATOM	9502	HD21	LEU	X	800	53.229	70.484	98.983	1.00	0.00	H
ATOM	9503	HD22	LEU	X	800	51.977	69.417	99.708	1.00	0.00	H
ATOM	9504	HD23	LEU	X	800	51.886	71.095	100.007	1.00	0.00	H
ATOM	9505	C	LEU	X	800	54.915	68.855	103.759	1.00	0.00	C
ATOM	9506	O	LEU	X	800	54.196	67.880	103.969	1.00	0.00	O
ATOM	9507	N	TYR	X	801	55.070	69.800	104.663	1.00	0.00	N
ATOM	9508	H	TYR	X	801	55.663	70.579	104.413	1.00	0.00	H
ATOM	9509	CA	TYR	X	801	54.380	69.820	105.957	1.00	0.00	C
ATOM	9510	HA	TYR	X	801	53.717	68.954	105.975	1.00	0.00	H

ATOM	9511	CB	TYR	X	801	55.350	69.590	107.114	1.00	0.00	C
ATOM	9512	HB2	TYR	X	801	55.952	70.485	107.268	1.00	0.00	H
ATOM	9513	HB3	TYR	X	801	54.808	69.356	108.031	1.00	0.00	H
ATOM	9514	CG	TYR	X	801	56.221	68.302	106.928	1.00	0.00	C
ATOM	9515	CD1	TYR	X	801	57.224	68.320	105.978	1.00	0.00	C
ATOM	9516	HD1	TYR	X	801	57.388	69.174	105.336	1.00	0.00	H
ATOM	9517	CE1	TYR	X	801	57.991	67.194	105.671	1.00	0.00	C
ATOM	9518	HE1	TYR	X	801	58.723	67.079	104.885	1.00	0.00	H
ATOM	9519	CZ	TYR	X	801	57.736	66.054	106.452	1.00	0.00	C
ATOM	9520	OH	TYR	X	801	58.372	64.882	106.024	1.00	0.00	O
ATOM	9521	HH	TYR	X	801	57.725	64.191	106.190	1.00	0.00	H
ATOM	9522	CE2	TYR	X	801	56.759	66.016	107.427	1.00	0.00	C
ATOM	9523	HE2	TYR	X	801	56.590	65.069	107.920	1.00	0.00	H
ATOM	9524	CD2	TYR	X	801	55.999	67.126	107.794	1.00	0.00	C
ATOM	9525	HD2	TYR	X	801	55.175	67.047	108.487	1.00	0.00	H
ATOM	9526	C	TYR	X	801	53.584	71.137	105.931	1.00	0.00	C
ATOM	9527	O	TYR	X	801	54.136	72.221	105.690	1.00	0.00	O
ATOM	9528	N	LEU	X	802	52.265	71.002	106.202	1.00	0.00	N
ATOM	9529	H	LEU	X	802	51.899	70.071	106.355	1.00	0.00	H
ATOM	9530	CA	LEU	X	802	51.182	72.022	106.259	1.00	0.00	C
ATOM	9531	HA	LEU	X	802	51.612	73.005	106.063	1.00	0.00	H
ATOM	9532	CB	LEU	X	802	50.257	71.677	105.080	1.00	0.00	C
ATOM	9533	HB2	LEU	X	802	49.913	70.645	105.156	1.00	0.00	H
ATOM	9534	HB3	LEU	X	802	49.423	72.376	105.154	1.00	0.00	H
ATOM	9535	CG	LEU	X	802	50.901	71.707	103.659	1.00	0.00	C
ATOM	9536	HG	LEU	X	802	51.700	70.970	103.599	1.00	0.00	H
ATOM	9537	CD1	LEU	X	802	49.822	71.309	102.653	1.00	0.00	C
ATOM	9538	HD11	LEU	X	802	48.951	71.959	102.730	1.00	0.00	H
ATOM	9539	HD12	LEU	X	802	50.262	71.542	101.684	1.00	0.00	H
ATOM	9540	HD13	LEU	X	802	49.572	70.250	102.705	1.00	0.00	H
ATOM	9541	CD2	LEU	X	802	51.438	73.073	103.319	1.00	0.00	C
ATOM	9542	HD21	LEU	X	802	52.315	73.291	103.929	1.00	0.00	H
ATOM	9543	HD22	LEU	X	802	51.671	73.083	102.254	1.00	0.00	H
ATOM	9544	HD23	LEU	X	802	50.731	73.876	103.530	1.00	0.00	H
ATOM	9545	C	LEU	X	802	50.495	72.017	107.681	1.00	0.00	C
ATOM	9546	O	LEU	X	802	49.300	72.315	107.702	1.00	0.00	O
ATOM	9547	N	ARG	X	803	51.160	71.597	108.734	1.00	0.00	N
ATOM	9548	H	ARG	X	803	52.165	71.592	108.644	1.00	0.00	H
ATOM	9549	CA	ARG	X	803	50.575	71.413	110.031	1.00	0.00	C
ATOM	9550	HA	ARG	X	803	49.622	70.916	109.849	1.00	0.00	H
ATOM	9551	CB	ARG	X	803	51.442	70.447	110.895	1.00	0.00	C
ATOM	9552	HB2	ARG	X	803	52.325	71.067	111.054	1.00	0.00	H
ATOM	9553	HB3	ARG	X	803	51.022	70.300	111.890	1.00	0.00	H
ATOM	9554	CG	ARG	X	803	51.825	69.116	110.288	1.00	0.00	C
ATOM	9555	HG2	ARG	X	803	50.938	68.490	110.383	1.00	0.00	H
ATOM	9556	HG3	ARG	X	803	51.949	69.245	109.212	1.00	0.00	H
ATOM	9557	CD	ARG	X	803	52.982	68.498	111.038	1.00	0.00	C
ATOM	9558	HD2	ARG	X	803	52.791	68.635	112.102	1.00	0.00	H
ATOM	9559	HD3	ARG	X	803	53.195	67.464	110.767	1.00	0.00	H
ATOM	9560	NE	ARG	X	803	54.200	69.264	110.752	1.00	0.00	N
ATOM	9561	HE	ARG	X	803	54.138	70.248	110.532	1.00	0.00	H
ATOM	9562	CZ	ARG	X	803	55.386	68.755	110.961	1.00	0.00	C
ATOM	9563	NH1	ARG	X	803	55.609	67.644	111.619	1.00	0.00	N
ATOM	9564	HH11	ARG	X	803	54.828	67.136	112.007	1.00	0.00	H
ATOM	9565	HH12	ARG	X	803	56.551	67.296	111.730	1.00	0.00	H
ATOM	9566	NH2	ARG	X	803	56.517	69.363	110.528	1.00	0.00	N
ATOM	9567	HH21	ARG	X	803	56.357	70.255	110.083	1.00	0.00	H
ATOM	9568	HH22	ARG	X	803	57.394	68.902	110.725	1.00	0.00	H
ATOM	9569	C	ARG	X	803	50.370	72.700	110.775	1.00	0.00	C
ATOM	9570	O	ARG	X	803	51.239	73.544	110.809	1.00	0.00	O
ATOM	9571	N	ASP	X	804	49.115	72.830	111.222	1.00	0.00	N
ATOM	9572	H	ASP	X	804	48.434	72.113	111.013	1.00	0.00	H
ATOM	9573	CA	ASP	X	804	48.507	74.115	111.513	1.00	0.00	C
ATOM	9574	HA	ASP	X	804	47.445	73.896	111.620	1.00	0.00	H
ATOM	9575	CB	ASP	X	804	48.993	74.580	112.845	1.00	0.00	C
ATOM	9576	HB2	ASP	X	804	48.842	73.778	113.567	1.00	0.00	H
ATOM	9577	HB3	ASP	X	804	50.061	74.792	112.808	1.00	0.00	H
ATOM	9578	CG	ASP	X	804	48.270	75.847	113.206	1.00	0.00	C
ATOM	9579	OD1	ASP	X	804	48.655	76.647	114.050	1.00	0.00	O
ATOM	9580	OD2	ASP	X	804	47.191	76.167	112.616	1.00	0.00	O
ATOM	9581	C	ASP	X	804	48.602	75.163	110.375	1.00	0.00	C
ATOM	9582	O	ASP	X	804	49.473	76.042	110.514	1.00	0.00	O
ATOM	9583	N	ASN	X	805	47.852	74.993	109.303	1.00	0.00	N
ATOM	9584	H	ASN	X	805	47.202	74.221	109.270	1.00	0.00	H
ATOM	9585	CA	ASN	X	805	47.778	75.987	108.182	1.00	0.00	C
ATOM	9586	HA	ASN	X	805	48.417	76.856	108.345	1.00	0.00	H
ATOM	9587	CB	ASN	X	805	48.403	75.375	106.931	1.00	0.00	C
ATOM	9588	HB2	ASN	X	805	48.117	74.324	106.952	1.00	0.00	H
ATOM	9589	HB3	ASN	X	805	48.030	75.835	106.016	1.00	0.00	H
ATOM	9590	CG	ASN	X	805	49.930	75.356	106.898	1.00	0.00	C
ATOM	9591	OD1	ASN	X	805	50.532	75.155	105.874	1.00	0.00	O
ATOM	9592	ND2	ASN	X	805	50.702	75.637	107.959	1.00	0.00	N

ATOM	9593	HD21	ASN	X	805	51.686	75.760	107.763	1.00	0.00	H
ATOM	9594	HD22	ASN	X	805	50.200	75.811	108.817	1.00	0.00	H
ATOM	9595	C	ASN	X	805	46.415	76.579	108.006	1.00	0.00	C
ATOM	9596	O	ASN	X	805	46.260	77.408	107.091	1.00	0.00	O
ATOM	9597	N	ASN	X	806	45.424	76.132	108.710	1.00	0.00	N
ATOM	9598	H	ASN	X	806	45.628	75.348	109.312	1.00	0.00	H
ATOM	9599	CA	ASN	X	806	44.056	76.554	108.577	1.00	0.00	C
ATOM	9600	HA	ASN	X	806	43.542	75.876	109.258	1.00	0.00	H
ATOM	9601	CB	ASN	X	806	43.888	77.993	108.998	1.00	0.00	C
ATOM	9602	HB2	ASN	X	806	44.531	78.332	109.811	1.00	0.00	H
ATOM	9603	HB3	ASN	X	806	44.127	78.552	108.093	1.00	0.00	H
ATOM	9604	CG	ASN	X	806	42.487	78.362	109.384	1.00	0.00	C
ATOM	9605	OD1	ASN	X	806	41.831	79.229	108.809	1.00	0.00	O
ATOM	9606	ND2	ASN	X	806	41.903	77.647	110.330	1.00	0.00	N
ATOM	9607	HD21	ASN	X	806	40.987	77.880	110.684	1.00	0.00	H
ATOM	9608	HD22	ASN	X	806	42.376	76.853	110.737	1.00	0.00	H
ATOM	9609	C	ASN	X	806	43.376	76.126	107.210	1.00	0.00	C
ATOM	9610	O	ASN	X	806	42.303	76.652	106.859	1.00	0.00	O
ATOM	9611	N	ILE	X	807	44.076	75.222	106.515	1.00	0.00	N
ATOM	9612	H	ILE	X	807	44.956	74.841	106.833	1.00	0.00	H
ATOM	9613	CA	ILE	X	807	43.615	74.833	105.181	1.00	0.00	C
ATOM	9614	HA	ILE	X	807	43.624	75.761	104.610	1.00	0.00	H
ATOM	9615	CB	ILE	X	807	44.751	73.957	104.437	1.00	0.00	C
ATOM	9616	HB	ILE	X	807	45.109	73.404	105.305	1.00	0.00	H
ATOM	9617	CG2	ILE	X	807	44.308	73.066	103.268	1.00	0.00	C
ATOM	9618	HG21	ILE	X	807	45.117	72.579	102.724	1.00	0.00	H
ATOM	9619	HG22	ILE	X	807	43.533	72.373	103.597	1.00	0.00	H
ATOM	9620	HG23	ILE	X	807	43.747	73.717	102.598	1.00	0.00	H
ATOM	9621	CG1	ILE	X	807	45.917	74.972	104.048	1.00	0.00	C
ATOM	9622	HG12	ILE	X	807	45.498	75.622	103.279	1.00	0.00	H
ATOM	9623	HG13	ILE	X	807	46.111	75.669	104.863	1.00	0.00	H
ATOM	9624	CD1	ILE	X	807	47.253	74.454	103.556	1.00	0.00	C
ATOM	9625	HD11	ILE	X	807	47.672	73.776	104.299	1.00	0.00	H
ATOM	9626	HD12	ILE	X	807	47.156	73.955	102.592	1.00	0.00	H
ATOM	9627	HD13	ILE	X	807	47.888	75.339	103.518	1.00	0.00	H
ATOM	9628	C	ILE	X	807	42.200	74.132	105.033	1.00	0.00	C
ATOM	9629	O	ILE	X	807	41.776	73.554	105.997	1.00	0.00	O
ATOM	9630	N	SER	X	808	41.500	74.375	103.920	1.00	0.00	N
ATOM	9631	H	SER	X	808	42.023	74.872	103.216	1.00	0.00	H
ATOM	9632	CA	SER	X	808	40.234	73.720	103.640	1.00	0.00	C
ATOM	9633	HA	SER	X	808	39.943	73.051	104.450	1.00	0.00	H
ATOM	9634	CB	SER	X	808	39.119	74.696	103.632	1.00	0.00	C
ATOM	9635	HB2	SER	X	808	39.227	75.464	104.398	1.00	0.00	H
ATOM	9636	HB3	SER	X	808	39.069	75.120	102.629	1.00	0.00	H
ATOM	9637	OG	SER	X	808	37.926	74.052	103.989	1.00	0.00	O
ATOM	9638	HG	SER	X	808	37.481	74.654	104.590	1.00	0.00	H
ATOM	9639	C	SER	X	808	40.294	72.829	102.344	1.00	0.00	C
ATOM	9640	O	SER	X	808	41.204	72.901	101.521	1.00	0.00	O
ATOM	9641	N	ASP	X	809	39.293	72.075	102.218	1.00	0.00	N
ATOM	9642	H	ASP	X	809	38.497	72.219	102.821	1.00	0.00	H
ATOM	9643	CA	ASP	X	809	38.965	70.988	101.248	1.00	0.00	C
ATOM	9644	HA	ASP	X	809	39.834	70.342	101.371	1.00	0.00	H
ATOM	9645	CB	ASP	X	809	37.718	70.227	101.606	1.00	0.00	C
ATOM	9646	HB2	ASP	X	809	37.396	69.671	100.725	1.00	0.00	H
ATOM	9647	HB3	ASP	X	809	37.911	69.489	102.384	1.00	0.00	H
ATOM	9648	CG	ASP	X	809	36.535	71.102	102.042	1.00	0.00	C
ATOM	9649	OD1	ASP	X	809	36.042	70.878	103.152	1.00	0.00	O
ATOM	9650	OD2	ASP	X	809	36.234	72.095	101.333	1.00	0.00	O
ATOM	9651	C	ASP	X	809	39.045	71.405	99.785	1.00	0.00	C
ATOM	9652	O	ASP	X	809	39.686	70.640	99.023	1.00	0.00	O
ATOM	9653	N	ARG	X	810	38.513	72.575	99.432	1.00	0.00	N
ATOM	9654	H	ARG	X	810	37.991	73.118	100.105	1.00	0.00	H
ATOM	9655	CA	ARG	X	810	38.798	73.201	98.095	1.00	0.00	C
ATOM	9656	HA	ARG	X	810	38.310	72.652	97.289	1.00	0.00	H
ATOM	9657	CB	ARG	X	810	38.078	74.589	98.059	1.00	0.00	C
ATOM	9658	HB2	ARG	X	810	36.993	74.494	98.094	1.00	0.00	H
ATOM	9659	HB3	ARG	X	810	38.406	75.127	98.948	1.00	0.00	H
ATOM	9660	CG	ARG	X	810	38.407	75.473	96.802	1.00	0.00	C
ATOM	9661	HG2	ARG	X	810	39.460	75.752	96.802	1.00	0.00	H
ATOM	9662	HG3	ARG	X	810	38.191	74.945	95.874	1.00	0.00	H
ATOM	9663	CD	ARG	X	810	37.667	76.799	96.856	1.00	0.00	C
ATOM	9664	HD2	ARG	X	810	38.081	77.391	96.040	1.00	0.00	H
ATOM	9665	HD3	ARG	X	810	36.591	76.715	96.708	1.00	0.00	H
ATOM	9666	NE	ARG	X	810	37.947	77.559	98.037	1.00	0.00	N
ATOM	9667	HE	ARG	X	810	38.506	77.116	98.752	1.00	0.00	H
ATOM	9668	CZ	ARG	X	810	37.534	78.794	98.231	1.00	0.00	C
ATOM	9669	NH1	ARG	X	810	36.892	79.479	97.376	1.00	0.00	N
ATOM	9670	HH11	ARG	X	810	36.536	79.012	96.554	1.00	0.00	H
ATOM	9671	HH12	ARG	X	810	36.420	80.337	97.624	1.00	0.00	H
ATOM	9672	NH2	ARG	X	810	37.827	79.376	99.333	1.00	0.00	N
ATOM	9673	HH21	ARG	X	810	38.252	78.806	100.048	1.00	0.00	H
ATOM	9674	HH22	ARG	X	810	37.980	80.375	99.343	1.00	0.00	H

ATOM	9675	C	ARG	X	810	40.228	73.289	97.642	1.00	0.00	C
ATOM	9676	O	ARG	X	810	40.631	72.586	96.711	1.00	0.00	O
ATOM	9677	N	GLY	X	811	41.106	73.883	98.465	1.00	0.00	N
ATOM	9678	H	GLY	X	811	40.682	74.503	99.140	1.00	0.00	H
ATOM	9679	CA	GLY	X	811	42.558	73.938	98.195	1.00	0.00	C
ATOM	9680	HA2	GLY	X	811	42.822	74.379	97.233	1.00	0.00	H
ATOM	9681	HA3	GLY	X	811	42.930	74.611	98.968	1.00	0.00	H
ATOM	9682	C	GLY	X	811	43.302	72.544	98.255	1.00	0.00	C
ATOM	9683	O	GLY	X	811	44.321	72.378	97.564	1.00	0.00	O
ATOM	9684	N	ILE	X	812	42.727	71.480	98.834	1.00	0.00	N
ATOM	9685	H	ILE	X	812	41.818	71.631	99.249	1.00	0.00	H
ATOM	9686	CA	ILE	X	812	43.284	70.127	98.772	1.00	0.00	C
ATOM	9687	HA	ILE	X	812	44.362	70.206	98.908	1.00	0.00	H
ATOM	9688	CB	ILE	X	812	42.751	69.235	99.959	1.00	0.00	C
ATOM	9689	HB	ILE	X	812	41.675	69.400	99.918	1.00	0.00	H
ATOM	9690	CG2	ILE	X	812	42.990	67.734	99.719	1.00	0.00	C
ATOM	9691	HG21	ILE	X	812	44.054	67.566	99.882	1.00	0.00	H
ATOM	9692	HG22	ILE	X	812	42.421	67.060	100.359	1.00	0.00	H
ATOM	9693	HG23	ILE	X	812	42.597	67.368	98.770	1.00	0.00	H
ATOM	9694	CG1	ILE	X	812	43.188	69.645	101.337	1.00	0.00	C
ATOM	9695	HG12	ILE	X	812	42.689	70.533	101.727	1.00	0.00	H
ATOM	9696	HG13	ILE	X	812	42.744	68.881	101.974	1.00	0.00	H
ATOM	9697	CD1	ILE	X	812	44.675	69.838	101.618	1.00	0.00	C
ATOM	9698	HD11	ILE	X	812	45.213	68.969	101.242	1.00	0.00	H
ATOM	9699	HD12	ILE	X	812	45.009	70.792	101.213	1.00	0.00	H
ATOM	9700	HD13	ILE	X	812	44.735	69.869	102.706	1.00	0.00	H
ATOM	9701	C	ILE	X	812	43.057	69.504	97.412	1.00	0.00	C
ATOM	9702	O	ILE	X	812	43.967	68.945	96.787	1.00	0.00	O
ATOM	9703	N	CYS	X	813	41.768	69.588	96.910	1.00	0.00	N
ATOM	9704	H	CYS	X	813	40.978	69.997	97.390	1.00	0.00	H
ATOM	9705	CA	CYS	X	813	41.439	69.210	95.594	1.00	0.00	C
ATOM	9706	HA	CYS	X	813	41.678	68.164	95.402	1.00	0.00	H
ATOM	9707	CB	CYS	X	813	39.955	69.685	95.378	1.00	0.00	C
ATOM	9708	HB2	CYS	X	813	39.843	70.763	95.259	1.00	0.00	H
ATOM	9709	HB3	CYS	X	813	39.638	69.253	94.430	1.00	0.00	H
ATOM	9710	SG	CYS	X	813	38.725	68.866	96.583	1.00	0.00	S
ATOM	9711	HG	CYS	X	813	39.086	69.610	97.633	1.00	0.00	H
ATOM	9712	C	CYS	X	813	42.358	69.928	94.526	1.00	0.00	C
ATOM	9713	O	CYS	X	813	42.946	69.321	93.655	1.00	0.00	O
ATOM	9714	N	LYS	X	814	42.542	71.264	94.675	1.00	0.00	N
ATOM	9715	H	LYS	X	814	41.931	71.669	95.369	1.00	0.00	H
ATOM	9716	CA	LYS	X	814	43.477	72.067	93.825	1.00	0.00	C
ATOM	9717	HA	LYS	X	814	43.143	72.128	92.790	1.00	0.00	H
ATOM	9718	CB	LYS	X	814	43.411	73.495	94.323	1.00	0.00	C
ATOM	9719	HB2	LYS	X	814	43.516	73.644	95.397	1.00	0.00	H
ATOM	9720	HB3	LYS	X	814	44.211	74.007	93.788	1.00	0.00	H
ATOM	9721	CG	LYS	X	814	42.088	74.296	94.045	1.00	0.00	C
ATOM	9722	HG2	LYS	X	814	41.217	73.661	94.205	1.00	0.00	H
ATOM	9723	HG3	LYS	X	814	42.032	75.149	94.720	1.00	0.00	H
ATOM	9724	CD	LYS	X	814	42.082	74.807	92.570	1.00	0.00	C
ATOM	9725	HD2	LYS	X	814	42.937	75.439	92.327	1.00	0.00	H
ATOM	9726	HD3	LYS	X	814	41.947	73.975	91.878	1.00	0.00	H
ATOM	9727	CE	LYS	X	814	40.852	75.639	92.371	1.00	0.00	C
ATOM	9728	HE2	LYS	X	814	40.090	74.915	92.086	1.00	0.00	H
ATOM	9729	HE3	LYS	X	814	40.577	76.173	93.280	1.00	0.00	H
ATOM	9730	NZ	LYS	X	814	40.899	76.658	91.252	1.00	0.00	N
ATOM	9731	HZ1	LYS	X	814	40.005	76.866	90.829	1.00	0.00	H
ATOM	9732	HZ2	LYS	X	814	41.303	77.534	91.552	1.00	0.00	H
ATOM	9733	HZ3	LYS	X	814	41.364	76.246	90.457	1.00	0.00	H
ATOM	9734	C	LYS	X	814	44.982	71.534	93.875	1.00	0.00	C
ATOM	9735	O	LYS	X	814	45.562	71.398	92.767	1.00	0.00	O
ATOM	9736	N	LEU	X	815	45.513	71.316	95.111	1.00	0.00	N
ATOM	9737	H	LEU	X	815	44.860	71.455	95.869	1.00	0.00	H
ATOM	9738	CA	LEU	X	815	46.773	70.614	95.351	1.00	0.00	C
ATOM	9739	HA	LEU	X	815	47.576	71.195	94.897	1.00	0.00	H
ATOM	9740	CB	LEU	X	815	46.969	70.617	96.845	1.00	0.00	C
ATOM	9741	HB2	LEU	X	815	46.787	71.664	97.086	1.00	0.00	H
ATOM	9742	HB3	LEU	X	815	46.337	69.973	97.455	1.00	0.00	H
ATOM	9743	CG	LEU	X	815	48.321	70.259	97.324	1.00	0.00	C
ATOM	9744	HG	LEU	X	815	49.050	70.799	96.720	1.00	0.00	H
ATOM	9745	CD1	LEU	X	815	48.590	70.834	98.726	1.00	0.00	C
ATOM	9746	HD11	LEU	X	815	47.654	70.896	99.280	1.00	0.00	H
ATOM	9747	HD12	LEU	X	815	49.262	70.233	99.341	1.00	0.00	H
ATOM	9748	HD13	LEU	X	815	48.995	71.844	98.688	1.00	0.00	H
ATOM	9749	CD2	LEU	X	815	48.754	68.832	97.434	1.00	0.00	C
ATOM	9750	HD21	LEU	X	815	48.028	68.156	97.885	1.00	0.00	H
ATOM	9751	HD22	LEU	X	815	48.689	68.484	96.403	1.00	0.00	H
ATOM	9752	HD23	LEU	X	815	49.797	68.758	97.737	1.00	0.00	H
ATOM	9753	C	LEU	X	815	46.902	69.239	94.734	1.00	0.00	C
ATOM	9754	O	LEU	X	815	47.933	68.949	94.120	1.00	0.00	O
ATOM	9755	N	ILE	X	816	45.840	68.361	94.848	1.00	0.00	N
ATOM	9756	H	ILE	X	816	45.028	68.530	95.425	1.00	0.00	H

ATOM	9757	CA	ILE	X	816	45.885	66.986	94.374	1.00	0.00	C
ATOM	9758	HA	ILE	X	816	46.844	66.506	94.570	1.00	0.00	H
ATOM	9759	CB	ILE	X	816	44.809	66.214	95.147	1.00	0.00	C
ATOM	9760	HB	ILE	X	816	43.828	66.678	95.246	1.00	0.00	H
ATOM	9761	CG2	ILE	X	816	44.734	64.855	94.465	1.00	0.00	C
ATOM	9762	HG21	ILE	X	816	44.374	64.048	95.103	1.00	0.00	H
ATOM	9763	HG22	ILE	X	816	44.019	64.774	93.647	1.00	0.00	H
ATOM	9764	HG23	ILE	X	816	45.731	64.525	94.172	1.00	0.00	H
ATOM	9765	CG1	ILE	X	816	45.276	65.957	96.590	1.00	0.00	C
ATOM	9766	HG12	ILE	X	816	45.307	66.951	97.036	1.00	0.00	H
ATOM	9767	HG13	ILE	X	816	44.498	65.419	97.129	1.00	0.00	H
ATOM	9768	CD1	ILE	X	816	46.648	65.279	96.883	1.00	0.00	C
ATOM	9769	HD11	ILE	X	816	46.650	64.340	96.329	1.00	0.00	H
ATOM	9770	HD12	ILE	X	816	47.434	65.892	96.444	1.00	0.00	H
ATOM	9771	HD13	ILE	X	816	46.859	65.166	97.946	1.00	0.00	H
ATOM	9772	C	ILE	X	816	45.717	66.875	92.841	1.00	0.00	C
ATOM	9773	O	ILE	X	816	46.526	66.258	92.170	1.00	0.00	O
ATOM	9774	N	GLU	X	817	44.769	67.573	92.217	1.00	0.00	N
ATOM	9775	H	GLU	X	817	44.122	68.022	92.849	1.00	0.00	H
ATOM	9776	CA	GLU	X	817	44.793	67.920	90.771	1.00	0.00	C
ATOM	9777	HA	GLU	X	817	44.553	67.020	90.205	1.00	0.00	H
ATOM	9778	CB	GLU	X	817	43.736	68.938	90.415	1.00	0.00	C
ATOM	9779	HB2	GLU	X	817	42.813	68.760	90.966	1.00	0.00	H
ATOM	9780	HB3	GLU	X	817	44.064	69.896	90.818	1.00	0.00	H
ATOM	9781	CG	GLU	X	817	43.329	68.985	88.933	1.00	0.00	C
ATOM	9782	HG2	GLU	X	817	43.267	67.989	88.497	1.00	0.00	H
ATOM	9783	HG3	GLU	X	817	42.293	69.322	88.972	1.00	0.00	H
ATOM	9784	CD	GLU	X	817	43.932	70.019	88.029	1.00	0.00	C
ATOM	9785	OE1	GLU	X	817	44.051	69.909	86.802	1.00	0.00	O
ATOM	9786	OE2	GLU	X	817	44.304	71.101	88.612	1.00	0.00	O
ATOM	9787	C	GLU	X	817	46.195	68.263	90.124	1.00	0.00	C
ATOM	9788	O	GLU	X	817	46.592	67.573	89.174	1.00	0.00	O
ATOM	9789	N	HIE	X	818	46.793	69.310	90.661	1.00	0.00	N
ATOM	9790	H	HIE	X	818	46.381	69.846	91.412	1.00	0.00	H
ATOM	9791	CA	HIE	X	818	48.186	69.563	90.282	1.00	0.00	C
ATOM	9792	HA	HIE	X	818	48.153	69.846	89.229	1.00	0.00	H
ATOM	9793	CB	HIE	X	818	48.556	70.820	90.978	1.00	0.00	C
ATOM	9794	HB2	HIE	X	818	47.704	71.415	91.305	1.00	0.00	H
ATOM	9795	HB3	HIE	X	818	49.148	70.719	91.887	1.00	0.00	H
ATOM	9796	CG	HIE	X	818	49.397	71.794	90.155	1.00	0.00	C
ATOM	9797	ND1	HIE	X	818	48.973	72.908	89.321	1.00	0.00	N
ATOM	9798	CE1	HIE	X	818	50.169	73.468	88.917	1.00	0.00	C
ATOM	9799	HE1	HIE	X	818	50.245	74.308	88.244	1.00	0.00	H
ATOM	9800	NE2	HIE	X	818	51.229	72.674	89.232	1.00	0.00	N
ATOM	9801	HE2	HIE	X	818	52.194	72.852	88.991	1.00	0.00	H
ATOM	9802	CD2	HIE	X	818	50.771	71.642	90.069	1.00	0.00	C
ATOM	9803	HD2	HIE	X	818	51.365	70.867	90.533	1.00	0.00	H
ATOM	9804	C	HIE	X	818	49.163	68.440	90.592	1.00	0.00	C
ATOM	9805	O	HIE	X	818	50.082	68.225	89.905	1.00	0.00	O
ATOM	9806	N	ALA	X	819	49.113	67.791	91.703	1.00	0.00	N
ATOM	9807	H	ALA	X	819	48.380	67.918	92.386	1.00	0.00	H
ATOM	9808	CA	ALA	X	819	50.101	66.720	92.077	1.00	0.00	C
ATOM	9809	HA	ALA	X	819	51.057	67.199	91.871	1.00	0.00	H
ATOM	9810	CB	ALA	X	819	49.927	66.428	93.583	1.00	0.00	C
ATOM	9811	HB1	ALA	X	819	50.298	67.284	94.148	1.00	0.00	H
ATOM	9812	HB2	ALA	X	819	48.867	66.228	93.742	1.00	0.00	H
ATOM	9813	HB3	ALA	X	819	50.441	65.507	93.861	1.00	0.00	H
ATOM	9814	C	ALA	X	819	49.940	65.496	91.126	1.00	0.00	C
ATOM	9815	O	ALA	X	819	50.955	64.815	90.921	1.00	0.00	O
ATOM	9816	N	LEU	X	820	48.748	65.269	90.516	1.00	0.00	N
ATOM	9817	H	LEU	X	820	47.943	65.758	90.881	1.00	0.00	H
ATOM	9818	CA	LEU	X	820	48.549	64.108	89.598	1.00	0.00	C
ATOM	9819	HA	LEU	X	820	48.932	63.273	90.185	1.00	0.00	H
ATOM	9820	CB	LEU	X	820	47.033	63.944	89.424	1.00	0.00	C
ATOM	9821	HB2	LEU	X	820	46.644	64.962	89.395	1.00	0.00	H
ATOM	9822	HB3	LEU	X	820	46.791	63.476	88.470	1.00	0.00	H
ATOM	9823	CG	LEU	X	820	46.314	63.265	90.580	1.00	0.00	C
ATOM	9824	HG	LEU	X	820	46.669	63.472	91.589	1.00	0.00	H
ATOM	9825	CD1	LEU	X	820	44.824	63.632	90.550	1.00	0.00	C
ATOM	9826	HD11	LEU	X	820	44.234	63.126	91.315	1.00	0.00	H
ATOM	9827	HD12	LEU	X	820	44.780	64.713	90.682	1.00	0.00	H
ATOM	9828	HD13	LEU	X	820	44.391	63.281	89.612	1.00	0.00	H
ATOM	9829	CD2	LEU	X	820	46.508	61.749	90.279	1.00	0.00	C
ATOM	9830	HD21	LEU	X	820	47.524	61.530	89.949	1.00	0.00	H
ATOM	9831	HD22	LEU	X	820	46.272	61.070	91.098	1.00	0.00	H
ATOM	9832	HD23	LEU	X	820	45.899	61.425	89.434	1.00	0.00	H
ATOM	9833	C	LEU	X	820	49.347	64.198	88.325	1.00	0.00	C
ATOM	9834	O	LEU	X	820	49.495	63.176	87.709	1.00	0.00	O
ATOM	9835	N	HIE	X	821	49.659	65.400	87.902	1.00	0.00	N
ATOM	9836	H	HIE	X	821	49.352	66.187	88.455	1.00	0.00	H
ATOM	9837	CA	HIE	X	821	50.381	65.750	86.644	1.00	0.00	C
ATOM	9838	HA	HIE	X	821	50.380	64.851	86.028	1.00	0.00	H

ATOM	9839	CB	HIE	X	821	49.661	66.884	85.828	1.00	0.00	C
ATOM	9840	HB2	HIE	X	821	50.063	66.879	84.816	1.00	0.00	H
ATOM	9841	HB3	HIE	X	821	48.635	66.527	85.746	1.00	0.00	H
ATOM	9842	CG	HIE	X	821	49.803	68.249	86.383	1.00	0.00	C
ATOM	9843	ND1	HIE	X	821	50.981	69.007	86.586	1.00	0.00	N
ATOM	9844	CE1	HIE	X	821	50.532	70.252	86.866	1.00	0.00	C
ATOM	9845	HE1	HIE	X	821	51.197	71.084	87.049	1.00	0.00	H
ATOM	9846	NE2	HIE	X	821	49.191	70.329	86.891	1.00	0.00	N
ATOM	9847	HE2	HIE	X	821	48.656	71.142	87.163	1.00	0.00	H
ATOM	9848	CD2	HIE	X	821	48.700	69.042	86.528	1.00	0.00	C
ATOM	9849	HD2	HIE	X	821	47.676	68.717	86.419	1.00	0.00	H
ATOM	9850	C	HIE	X	821	51.857	66.125	86.910	1.00	0.00	C
ATOM	9851	O	HIE	X	821	52.678	66.284	85.981	1.00	0.00	O
ATOM	9852	N	CYS	X	822	52.232	66.305	88.211	1.00	0.00	N
ATOM	9853	H	CYS	X	822	51.531	66.392	88.932	1.00	0.00	H
ATOM	9854	CA	CYS	X	822	53.571	66.234	88.756	1.00	0.00	C
ATOM	9855	HA	CYS	X	822	54.256	66.419	87.928	1.00	0.00	H
ATOM	9856	CB	CYS	X	822	53.638	67.299	89.807	1.00	0.00	C
ATOM	9857	HB2	CYS	X	822	52.891	67.060	90.565	1.00	0.00	H
ATOM	9858	HB3	CYS	X	822	54.630	67.354	90.255	1.00	0.00	H
ATOM	9859	SG	CYS	X	822	53.277	68.942	89.272	1.00	0.00	S
ATOM	9860	HG	CYS	X	822	51.995	68.765	89.606	1.00	0.00	H
ATOM	9861	C	CYS	X	822	53.997	64.800	89.208	1.00	0.00	C
ATOM	9862	O	CYS	X	822	53.229	63.851	89.218	1.00	0.00	O
ATOM	9863	N	GLU	X	823	55.303	64.682	89.486	1.00	0.00	N
ATOM	9864	H	GLU	X	823	55.891	65.474	89.269	1.00	0.00	H
ATOM	9865	CA	GLU	X	823	56.090	63.442	89.818	1.00	0.00	C
ATOM	9866	HA	GLU	X	823	55.363	62.658	90.036	1.00	0.00	H
ATOM	9867	CB	GLU	X	823	57.021	63.040	88.622	1.00	0.00	C
ATOM	9868	HB2	GLU	X	823	57.660	63.879	88.343	1.00	0.00	H
ATOM	9869	HB3	GLU	X	823	57.594	62.216	89.050	1.00	0.00	H
ATOM	9870	CG	GLU	X	823	56.350	62.410	87.417	1.00	0.00	C
ATOM	9871	HG2	GLU	X	823	55.984	63.244	86.819	1.00	0.00	H
ATOM	9872	HG3	GLU	X	823	57.113	61.924	86.808	1.00	0.00	H
ATOM	9873	CD	GLU	X	823	55.267	61.384	87.681	1.00	0.00	C
ATOM	9874	OE1	GLU	X	823	55.310	60.512	88.585	1.00	0.00	O
ATOM	9875	OE2	GLU	X	823	54.276	61.519	86.880	1.00	0.00	O
ATOM	9876	C	GLU	X	823	56.876	63.452	91.138	1.00	0.00	C
ATOM	9877	O	GLU	X	823	57.021	62.397	91.739	1.00	0.00	O
ATOM	9878	N	GLN	X	824	57.476	64.618	91.573	1.00	0.00	N
ATOM	9879	H	GLN	X	824	57.395	65.511	91.106	1.00	0.00	H
ATOM	9880	CA	GLN	X	824	58.470	64.642	92.747	1.00	0.00	C
ATOM	9881	HA	GLN	X	824	59.052	63.724	92.674	1.00	0.00	H
ATOM	9882	CB	GLN	X	824	59.394	65.826	92.694	1.00	0.00	C
ATOM	9883	HB2	GLN	X	824	58.864	66.767	92.842	1.00	0.00	H
ATOM	9884	HB3	GLN	X	824	60.035	65.811	93.576	1.00	0.00	H
ATOM	9885	CG	GLN	X	824	60.233	66.085	91.374	1.00	0.00	C
ATOM	9886	HG2	GLN	X	824	59.557	66.023	90.521	1.00	0.00	H
ATOM	9887	HG3	GLN	X	824	60.614	67.089	91.555	1.00	0.00	H
ATOM	9888	CD	GLN	X	824	61.337	65.086	91.130	1.00	0.00	C
ATOM	9889	OE1	GLN	X	824	61.586	64.167	91.919	1.00	0.00	O
ATOM	9890	NE2	GLN	X	824	62.031	65.194	90.029	1.00	0.00	N
ATOM	9891	HE21	GLN	X	824	62.557	64.382	89.739	1.00	0.00	H
ATOM	9892	HE22	GLN	X	824	61.813	65.889	89.329	1.00	0.00	H
ATOM	9893	C	GLN	X	824	57.861	64.315	94.099	1.00	0.00	C
ATOM	9894	O	GLN	X	824	58.542	63.945	95.035	1.00	0.00	O
ATOM	9895	N	LEU	X	825	56.550	64.525	94.254	1.00	0.00	N
ATOM	9896	H	LEU	X	825	55.989	64.851	93.480	1.00	0.00	H
ATOM	9897	CA	LEU	X	825	55.909	64.540	95.600	1.00	0.00	C
ATOM	9898	HA	LEU	X	825	56.584	65.148	96.203	1.00	0.00	H
ATOM	9899	CB	LEU	X	825	54.433	65.104	95.455	1.00	0.00	C
ATOM	9900	HB2	LEU	X	825	54.517	66.072	94.961	1.00	0.00	H
ATOM	9901	HB3	LEU	X	825	53.891	64.471	94.753	1.00	0.00	H
ATOM	9902	CG	LEU	X	825	53.613	65.280	96.744	1.00	0.00	C
ATOM	9903	HG	LEU	X	825	53.824	64.473	97.446	1.00	0.00	H
ATOM	9904	CD1	LEU	X	825	54.104	66.569	97.392	1.00	0.00	C
ATOM	9905	HD11	LEU	X	825	54.820	66.261	98.155	1.00	0.00	H
ATOM	9906	HD12	LEU	X	825	54.627	67.257	96.726	1.00	0.00	H
ATOM	9907	HD13	LEU	X	825	53.284	66.997	97.966	1.00	0.00	H
ATOM	9908	CD2	LEU	X	825	52.121	65.383	96.427	1.00	0.00	C
ATOM	9909	HD21	LEU	X	825	51.476	65.505	97.297	1.00	0.00	H
ATOM	9910	HD22	LEU	X	825	51.869	66.194	95.744	1.00	0.00	H
ATOM	9911	HD23	LEU	X	825	51.944	64.462	95.871	1.00	0.00	H
ATOM	9912	C	LEU	X	825	55.886	63.029	96.273	1.00	0.00	C
ATOM	9913	O	LEU	X	825	55.141	62.127	95.858	1.00	0.00	O
ATOM	9914	N	GLN	X	826	56.655	62.892	97.377	1.00	0.00	N
ATOM	9915	H	GLN	X	826	57.188	63.686	97.704	1.00	0.00	H
ATOM	9916	CA	GLN	X	826	56.750	61.660	98.132	1.00	0.00	C
ATOM	9917	HA	GLN	X	826	56.228	60.882	97.576	1.00	0.00	H
ATOM	9918	CB	GLN	X	826	58.209	61.242	98.268	1.00	0.00	C
ATOM	9919	HB2	GLN	X	826	58.787	61.980	98.822	1.00	0.00	H
ATOM	9920	HB3	GLN	X	826	58.289	60.232	98.668	1.00	0.00	H

ATOM	9921	CG	GLN	X	826	58.914	61.199	96.872	1.00	0.00	C
ATOM	9922	HG2	GLN	X	826	58.133	61.109	96.115	1.00	0.00	H
ATOM	9923	HG3	GLN	X	826	59.445	62.128	96.664	1.00	0.00	H
ATOM	9924	CD	GLN	X	826	60.059	60.152	96.785	1.00	0.00	C
ATOM	9925	OE1	GLN	X	826	60.325	59.418	97.674	1.00	0.00	O
ATOM	9926	NE2	GLN	X	826	60.841	60.147	95.775	1.00	0.00	N
ATOM	9927	HE21	GLN	X	826	61.683	59.593	95.844	1.00	0.00	H
ATOM	9928	HE22	GLN	X	826	60.836	60.883	95.084	1.00	0.00	H
ATOM	9929	C	GLN	X	826	56.061	61.795	99.498	1.00	0.00	C
ATOM	9930	O	GLN	X	826	55.333	60.879	99.861	1.00	0.00	O
ATOM	9931	N	LYS	X	827	56.258	62.921	100.197	1.00	0.00	N
ATOM	9932	H	LYS	X	827	56.758	63.698	99.790	1.00	0.00	H
ATOM	9933	CA	LYS	X	827	55.842	63.059	101.576	1.00	0.00	C
ATOM	9934	HA	LYS	X	827	55.325	62.131	101.816	1.00	0.00	H
ATOM	9935	CB	LYS	X	827	57.130	63.271	102.421	1.00	0.00	C
ATOM	9936	HB2	LYS	X	827	57.636	64.184	102.107	1.00	0.00	H
ATOM	9937	HB3	LYS	X	827	56.911	63.276	103.490	1.00	0.00	H
ATOM	9938	CG	LYS	X	827	58.124	62.145	102.182	1.00	0.00	C
ATOM	9939	HG2	LYS	X	827	57.653	61.250	102.587	1.00	0.00	H
ATOM	9940	HG3	LYS	X	827	58.292	62.025	101.111	1.00	0.00	H
ATOM	9941	CD	LYS	X	827	59.480	62.368	102.833	1.00	0.00	C
ATOM	9942	HD2	LYS	X	827	60.201	61.736	102.313	1.00	0.00	H
ATOM	9943	HD3	LYS	X	827	59.961	63.297	102.524	1.00	0.00	H
ATOM	9944	CE	LYS	X	827	59.390	62.225	104.351	1.00	0.00	C
ATOM	9945	HE2	LYS	X	827	58.583	62.848	104.739	1.00	0.00	H
ATOM	9946	HE3	LYS	X	827	59.130	61.203	104.626	1.00	0.00	H
ATOM	9947	NZ	LYS	X	827	60.671	62.493	104.988	1.00	0.00	N
ATOM	9948	HZ1	LYS	X	827	61.407	61.916	104.603	1.00	0.00	H
ATOM	9949	HZ2	LYS	X	827	61.105	63.395	104.855	1.00	0.00	H
ATOM	9950	HZ3	LYS	X	827	60.653	62.341	105.986	1.00	0.00	H
ATOM	9951	C	LYS	X	827	54.836	64.173	101.881	1.00	0.00	C
ATOM	9952	O	LYS	X	827	54.934	65.257	101.352	1.00	0.00	O
ATOM	9953	N	LEU	X	828	53.812	63.973	102.751	1.00	0.00	N
ATOM	9954	H	LEU	X	828	53.619	63.012	102.992	1.00	0.00	H
ATOM	9955	CA	LEU	X	828	52.830	65.005	103.090	1.00	0.00	C
ATOM	9956	HA	LEU	X	828	53.352	65.936	102.868	1.00	0.00	H
ATOM	9957	CB	LEU	X	828	51.668	64.759	102.061	1.00	0.00	C
ATOM	9958	HB2	LEU	X	828	51.987	64.560	101.038	1.00	0.00	H
ATOM	9959	HB3	LEU	X	828	51.113	63.883	102.399	1.00	0.00	H
ATOM	9960	CG	LEU	X	828	50.520	65.738	101.965	1.00	0.00	C
ATOM	9961	HG	LEU	X	828	50.010	65.759	102.928	1.00	0.00	H
ATOM	9962	CD1	LEU	X	828	50.962	67.101	101.658	1.00	0.00	C
ATOM	9963	HD11	LEU	X	828	51.313	67.139	100.627	1.00	0.00	H
ATOM	9964	HD12	LEU	X	828	50.104	67.762	101.782	1.00	0.00	H
ATOM	9965	HD13	LEU	X	828	51.690	67.357	102.428	1.00	0.00	H
ATOM	9966	CD2	LEU	X	828	49.556	65.303	100.835	1.00	0.00	C
ATOM	9967	HD21	LEU	X	828	49.131	64.321	101.037	1.00	0.00	H
ATOM	9968	HD22	LEU	X	828	48.727	65.983	100.636	1.00	0.00	H
ATOM	9969	HD23	LEU	X	828	50.083	65.154	99.891	1.00	0.00	H
ATOM	9970	C	LEU	X	828	52.335	64.883	104.533	1.00	0.00	C
ATOM	9971	O	LEU	X	828	52.089	63.747	104.983	1.00	0.00	O
ATOM	9972	N	ALA	X	829	51.971	65.961	105.214	1.00	0.00	N
ATOM	9973	H	ALA	X	829	52.372	66.763	104.749	1.00	0.00	H
ATOM	9974	CA	ALA	X	829	51.379	66.057	106.503	1.00	0.00	C
ATOM	9975	HA	ALA	X	829	50.902	65.085	106.633	1.00	0.00	H
ATOM	9976	CB	ALA	X	829	52.515	66.099	107.540	1.00	0.00	C
ATOM	9977	HB1	ALA	X	829	52.135	66.356	108.528	1.00	0.00	H
ATOM	9978	HB2	ALA	X	829	52.934	65.099	107.641	1.00	0.00	H
ATOM	9979	HB3	ALA	X	829	53.421	66.608	107.211	1.00	0.00	H
ATOM	9980	C	ALA	X	829	50.413	67.215	106.632	1.00	0.00	C
ATOM	9981	O	ALA	X	829	50.688	68.339	106.168	1.00	0.00	O
ATOM	9982	N	LEU	X	830	49.250	67.015	107.172	1.00	0.00	N
ATOM	9983	H	LEU	X	830	49.068	66.035	107.341	1.00	0.00	H
ATOM	9984	CA	LEU	X	830	48.003	67.770	107.047	1.00	0.00	C
ATOM	9985	HA	LEU	X	830	48.208	68.679	106.483	1.00	0.00	H
ATOM	9986	CB	LEU	X	830	47.020	67.054	106.114	1.00	0.00	C
ATOM	9987	HB2	LEU	X	830	46.649	66.063	106.378	1.00	0.00	H
ATOM	9988	HB3	LEU	X	830	46.137	67.673	105.966	1.00	0.00	H
ATOM	9989	CG	LEU	X	830	47.718	66.872	104.767	1.00	0.00	C
ATOM	9990	HG	LEU	X	830	48.628	66.279	104.855	1.00	0.00	H
ATOM	9991	CD1	LEU	X	830	46.809	66.025	103.886	1.00	0.00	C
ATOM	9992	HD11	LEU	X	830	45.833	66.510	103.853	1.00	0.00	H
ATOM	9993	HD12	LEU	X	830	47.269	65.789	102.926	1.00	0.00	H
ATOM	9994	HD13	LEU	X	830	46.700	65.049	104.360	1.00	0.00	H
ATOM	9995	CD2	LEU	X	830	47.936	68.198	103.989	1.00	0.00	C
ATOM	9996	HD21	LEU	X	830	48.357	67.887	103.032	1.00	0.00	H
ATOM	9997	HD22	LEU	X	830	47.003	68.742	103.837	1.00	0.00	H
ATOM	9998	HD23	LEU	X	830	48.600	68.859	104.544	1.00	0.00	H
ATOM	9999	C	LEU	X	830	47.284	68.042	108.417	1.00	0.00	C
ATOM	10000	O	LEU	X	830	46.135	68.484	108.379	1.00	0.00	O
ATOM	10001	N	PHE	X	831	47.891	67.894	109.632	1.00	0.00	N
ATOM	10002	H	PHE	X	831	48.843	67.560	109.660	1.00	0.00	H

ATOM	10003	CA	PHE	X	831	47.165	68.033	110.955	1.00	0.00	C
ATOM	10004	HA	PHE	X	831	46.324	67.347	110.864	1.00	0.00	H
ATOM	10005	CB	PHE	X	831	48.056	67.406	112.086	1.00	0.00	C
ATOM	10006	HB2	PHE	X	831	47.888	66.329	112.056	1.00	0.00	H
ATOM	10007	HB3	PHE	X	831	49.022	67.784	111.752	1.00	0.00	H
ATOM	10008	CG	PHE	X	831	47.888	67.829	113.615	1.00	0.00	C
ATOM	10009	CD1	PHE	X	831	48.390	69.070	114.081	1.00	0.00	C
ATOM	10010	HD1	PHE	X	831	48.845	69.766	113.394	1.00	0.00	H
ATOM	10011	CE1	PHE	X	831	48.292	69.434	115.424	1.00	0.00	C
ATOM	10012	HE1	PHE	X	831	48.602	70.386	115.829	1.00	0.00	H
ATOM	10013	CZ	PHE	X	831	47.636	68.529	116.317	1.00	0.00	C
ATOM	10014	HZ	PHE	X	831	47.625	68.702	117.382	1.00	0.00	H
ATOM	10015	CE2	PHE	X	831	47.101	67.292	115.835	1.00	0.00	C
ATOM	10016	HE2	PHE	X	831	46.624	66.641	116.553	1.00	0.00	H
ATOM	10017	CD2	PHE	X	831	47.188	66.958	114.501	1.00	0.00	C
ATOM	10018	HD2	PHE	X	831	46.838	65.999	114.149	1.00	0.00	H
ATOM	10019	C	PHE	X	831	46.714	69.516	111.148	1.00	0.00	C
ATOM	10020	O	PHE	X	831	47.345	70.445	110.737	1.00	0.00	O
ATOM	10021	N	ASN	X	832	45.631	69.679	111.876	1.00	0.00	N
ATOM	10022	H	ASN	X	832	45.158	68.815	112.097	1.00	0.00	H
ATOM	10023	CA	ASN	X	832	44.946	70.933	112.329	1.00	0.00	C
ATOM	10024	HA	ASN	X	832	43.989	70.674	112.778	1.00	0.00	H
ATOM	10025	CB	ASN	X	832	45.722	71.543	113.541	1.00	0.00	C
ATOM	10026	HB2	ASN	X	832	46.800	71.620	113.403	1.00	0.00	H
ATOM	10027	HB3	ASN	X	832	45.413	72.587	113.605	1.00	0.00	H
ATOM	10028	CG	ASN	X	832	45.405	70.867	114.838	1.00	0.00	C
ATOM	10029	OD1	ASN	X	832	44.843	69.798	114.947	1.00	0.00	O
ATOM	10030	ND2	ASN	X	832	45.663	71.421	116.056	1.00	0.00	N
ATOM	10031	HD21	ASN	X	832	45.429	70.756	116.778	1.00	0.00	H
ATOM	10032	HD22	ASN	X	832	46.186	72.277	116.178	1.00	0.00	H
ATOM	10033	C	ASN	X	832	44.589	71.940	111.212	1.00	0.00	C
ATOM	10034	O	ASN	X	832	44.964	73.105	111.152	1.00	0.00	O
ATOM	10035	N	ASN	X	833	43.893	71.355	110.272	1.00	0.00	N
ATOM	10036	H	ASN	X	833	43.727	70.358	110.304	1.00	0.00	H
ATOM	10037	CA	ASN	X	833	43.319	71.983	109.109	1.00	0.00	C
ATOM	10038	HA	ASN	X	833	43.370	73.052	109.314	1.00	0.00	H
ATOM	10039	CB	ASN	X	833	44.131	71.688	107.866	1.00	0.00	C
ATOM	10040	HB2	ASN	X	833	44.213	70.611	107.718	1.00	0.00	H
ATOM	10041	HB3	ASN	X	833	43.697	72.194	107.004	1.00	0.00	H
ATOM	10042	CG	ASN	X	833	45.578	72.223	107.970	1.00	0.00	C
ATOM	10043	OD1	ASN	X	833	45.803	73.447	108.047	1.00	0.00	O
ATOM	10044	ND2	ASN	X	833	46.575	71.441	107.890	1.00	0.00	N
ATOM	10045	HD21	ASN	X	833	47.504	71.829	107.808	1.00	0.00	H
ATOM	10046	HD22	ASN	X	833	46.522	70.457	108.108	1.00	0.00	H
ATOM	10047	C	ASN	X	833	41.795	71.666	108.890	1.00	0.00	C
ATOM	10048	O	ASN	X	833	41.435	70.532	108.832	1.00	0.00	O
ATOM	10049	N	LYS	X	834	40.981	72.649	108.698	1.00	0.00	N
ATOM	10050	H	LYS	X	834	41.361	73.581	108.784	1.00	0.00	H
ATOM	10051	CA	LYS	X	834	39.536	72.657	108.679	1.00	0.00	C
ATOM	10052	HA	LYS	X	834	39.183	72.173	109.589	1.00	0.00	H
ATOM	10053	CB	LYS	X	834	39.005	74.079	108.927	1.00	0.00	C
ATOM	10054	HB2	LYS	X	834	37.916	74.121	108.919	1.00	0.00	H
ATOM	10055	HB3	LYS	X	834	39.477	74.471	109.828	1.00	0.00	H
ATOM	10056	CG	LYS	X	834	39.351	75.163	107.872	1.00	0.00	C
ATOM	10057	HG2	LYS	X	834	40.394	75.125	107.556	1.00	0.00	H
ATOM	10058	HG3	LYS	X	834	38.791	75.094	106.939	1.00	0.00	H
ATOM	10059	CD	LYS	X	834	39.096	76.532	108.413	1.00	0.00	C
ATOM	10060	HD2	LYS	X	834	38.107	76.533	108.870	1.00	0.00	H
ATOM	10061	HD3	LYS	X	834	39.877	76.739	109.144	1.00	0.00	H
ATOM	10062	CE	LYS	X	834	39.075	77.637	107.337	1.00	0.00	C
ATOM	10063	HE2	LYS	X	834	39.945	77.581	106.684	1.00	0.00	H
ATOM	10064	HE3	LYS	X	834	38.174	77.598	106.724	1.00	0.00	H
ATOM	10065	NZ	LYS	X	834	39.166	78.978	107.937	1.00	0.00	N
ATOM	10066	HZ1	LYS	X	834	39.321	79.713	107.262	1.00	0.00	H
ATOM	10067	HZ2	LYS	X	834	38.362	79.149	108.524	1.00	0.00	H
ATOM	10068	HZ3	LYS	X	834	40.037	79.165	108.413	1.00	0.00	H
ATOM	10069	C	LYS	X	834	38.893	71.995	107.374	1.00	0.00	C
ATOM	10070	O	LYS	X	834	37.779	72.337	107.066	1.00	0.00	O
ATOM	10071	N	LEU	X	835	39.558	71.096	106.620	1.00	0.00	N
ATOM	10072	H	LEU	X	835	40.453	70.725	106.907	1.00	0.00	H
ATOM	10073	CA	LEU	X	835	39.040	70.397	105.437	1.00	0.00	C
ATOM	10074	HA	LEU	X	835	38.634	71.130	104.739	1.00	0.00	H
ATOM	10075	CB	LEU	X	835	40.274	69.648	104.732	1.00	0.00	C
ATOM	10076	HB2	LEU	X	835	39.906	69.004	103.931	1.00	0.00	H
ATOM	10077	HB3	LEU	X	835	40.833	70.390	104.161	1.00	0.00	H
ATOM	10078	CG	LEU	X	835	41.185	68.864	105.576	1.00	0.00	C
ATOM	10079	HG	LEU	X	835	40.859	69.000	106.606	1.00	0.00	H
ATOM	10080	CD1	LEU	X	835	41.260	67.404	105.207	1.00	0.00	C
ATOM	10081	HD11	LEU	X	835	41.696	66.937	106.090	1.00	0.00	H
ATOM	10082	HD12	LEU	X	835	40.230	67.095	105.028	1.00	0.00	H
ATOM	10083	HD13	LEU	X	835	41.640	67.341	104.188	1.00	0.00	H
ATOM	10084	CD2	LEU	X	835	42.666	69.343	105.531	1.00	0.00	C

ATOM	10085	HD21	LEU	X	835	43.308	68.633	106.053	1.00	0.00	H
ATOM	10086	HD22	LEU	X	835	42.984	69.361	104.490	1.00	0.00	H
ATOM	10087	HD23	LEU	X	835	42.730	70.323	106.003	1.00	0.00	H
ATOM	10088	C	LEU	X	835	37.992	69.299	105.740	1.00	0.00	C
ATOM	10089	O	LEU	X	835	38.208	68.602	106.629	1.00	0.00	O
ATOM	10090	N	THR	X	836	36.865	69.163	105.024	1.00	0.00	N
ATOM	10091	H	THR	X	836	36.623	69.893	104.370	1.00	0.00	H
ATOM	10092	CA	THR	X	836	35.957	67.994	105.172	1.00	0.00	C
ATOM	10093	HA	THR	X	836	36.020	67.522	106.152	1.00	0.00	H
ATOM	10094	CB	THR	X	836	34.501	68.389	104.831	1.00	0.00	C
ATOM	10095	HB	THR	X	836	33.915	67.476	104.734	1.00	0.00	H
ATOM	10096	CG2	THR	X	836	33.920	69.355	105.927	1.00	0.00	C
ATOM	10097	HG21	THR	X	836	32.874	69.645	105.826	1.00	0.00	H
ATOM	10098	HG22	THR	X	836	33.953	68.808	106.868	1.00	0.00	H
ATOM	10099	HG23	THR	X	836	34.478	70.292	105.912	1.00	0.00	H
ATOM	10100	OG1	THR	X	836	34.258	69.143	103.652	1.00	0.00	O
ATOM	10101	HG1	THR	X	836	34.799	69.933	103.601	1.00	0.00	H
ATOM	10102	C	THR	X	836	36.341	66.920	104.189	1.00	0.00	C
ATOM	10103	O	THR	X	836	36.866	67.088	103.139	1.00	0.00	O
ATOM	10104	N	ASP	X	837	35.963	65.671	104.507	1.00	0.00	N
ATOM	10105	H	ASP	X	837	35.354	65.620	105.311	1.00	0.00	H
ATOM	10106	CA	ASP	X	837	36.197	64.471	103.735	1.00	0.00	C
ATOM	10107	HA	ASP	X	837	37.265	64.433	103.520	1.00	0.00	H
ATOM	10108	CB	ASP	X	837	35.894	63.144	104.522	1.00	0.00	C
ATOM	10109	HB2	ASP	X	837	36.186	62.345	103.839	1.00	0.00	H
ATOM	10110	HB3	ASP	X	837	36.541	63.186	105.399	1.00	0.00	H
ATOM	10111	CG	ASP	X	837	34.392	62.966	104.940	1.00	0.00	C
ATOM	10112	OD1	ASP	X	837	34.172	62.562	106.082	1.00	0.00	O
ATOM	10113	OD2	ASP	X	837	33.535	63.238	104.136	1.00	0.00	O
ATOM	10114	C	ASP	X	837	35.592	64.567	102.338	1.00	0.00	C
ATOM	10115	O	ASP	X	837	35.941	63.790	101.483	1.00	0.00	O
ATOM	10116	N	GLY	X	838	34.820	65.609	102.012	1.00	0.00	N
ATOM	10117	H	GLY	X	838	34.450	66.133	102.793	1.00	0.00	H
ATOM	10118	CA	GLY	X	838	34.537	66.101	100.619	1.00	0.00	C
ATOM	10119	HA2	GLY	X	838	34.062	65.356	99.980	1.00	0.00	H
ATOM	10120	HA3	GLY	X	838	33.876	66.967	100.595	1.00	0.00	H
ATOM	10121	C	GLY	X	838	35.771	66.503	99.748	1.00	0.00	C
ATOM	10122	O	GLY	X	838	35.670	66.865	98.592	1.00	0.00	O
ATOM	10123	N	CYS	X	839	36.995	66.537	100.279	1.00	0.00	N
ATOM	10124	H	CYS	X	839	37.145	66.468	101.275	1.00	0.00	H
ATOM	10125	CA	CYS	X	839	38.203	66.473	99.466	1.00	0.00	C
ATOM	10126	HA	CYS	X	839	38.039	66.754	98.425	1.00	0.00	H
ATOM	10127	CB	CYS	X	839	39.216	67.564	99.948	1.00	0.00	C
ATOM	10128	HB2	CYS	X	839	40.096	67.723	99.327	1.00	0.00	H
ATOM	10129	HB3	CYS	X	839	38.686	68.515	99.931	1.00	0.00	H
ATOM	10130	SG	CYS	X	839	39.631	67.058	101.695	1.00	0.00	S
ATOM	10131	HG	CYS	X	839	38.500	67.233	102.386	1.00	0.00	H
ATOM	10132	C	CYS	X	839	38.947	65.108	99.309	1.00	0.00	C
ATOM	10133	O	CYS	X	839	39.987	64.905	98.611	1.00	0.00	O
ATOM	10134	N	ALA	X	840	38.588	64.017	99.956	1.00	0.00	N
ATOM	10135	H	ALA	X	840	37.652	64.107	100.322	1.00	0.00	H
ATOM	10136	CA	ALA	X	840	39.382	62.817	100.150	1.00	0.00	C
ATOM	10137	HA	ALA	X	840	40.387	63.007	100.527	1.00	0.00	H
ATOM	10138	CB	ALA	X	840	38.647	62.061	101.234	1.00	0.00	C
ATOM	10139	HB1	ALA	X	840	37.692	61.736	100.819	1.00	0.00	H
ATOM	10140	HB2	ALA	X	840	39.202	61.139	101.411	1.00	0.00	H
ATOM	10141	HB3	ALA	X	840	38.396	62.709	102.074	1.00	0.00	H
ATOM	10142	C	ALA	X	840	39.475	61.968	98.843	1.00	0.00	C
ATOM	10143	O	ALA	X	840	40.448	61.256	98.606	1.00	0.00	O
ATOM	10144	N	HIE	X	841	38.411	62.063	98.004	1.00	0.00	N
ATOM	10145	H	HIE	X	841	37.629	62.601	98.350	1.00	0.00	H
ATOM	10146	CA	HIE	X	841	38.288	61.341	96.717	1.00	0.00	C
ATOM	10147	HA	HIE	X	841	38.182	60.263	96.835	1.00	0.00	H
ATOM	10148	CB	HIE	X	841	37.020	61.854	95.988	1.00	0.00	C
ATOM	10149	HB2	HIE	X	841	37.002	61.363	95.016	1.00	0.00	H
ATOM	10150	HB3	HIE	X	841	36.127	61.583	96.553	1.00	0.00	H
ATOM	10151	CG	HIE	X	841	37.023	63.335	95.656	1.00	0.00	C
ATOM	10152	ND1	HIE	X	841	37.366	64.330	96.554	1.00	0.00	N
ATOM	10153	CE1	HIE	X	841	37.306	65.519	95.906	1.00	0.00	C
ATOM	10154	HE1	HIE	X	841	37.161	66.461	96.415	1.00	0.00	H
ATOM	10155	NE2	HIE	X	841	37.104	65.252	94.621	1.00	0.00	N
ATOM	10156	HE2	HIE	X	841	37.047	65.908	93.855	1.00	0.00	H
ATOM	10157	CD2	HIE	X	841	36.983	63.901	94.433	1.00	0.00	C
ATOM	10158	HD2	HIE	X	841	36.907	63.420	93.469	1.00	0.00	H
ATOM	10159	C	HIE	X	841	39.438	61.545	95.737	1.00	0.00	C
ATOM	10160	O	HIE	X	841	39.820	60.559	95.073	1.00	0.00	O
ATOM	10161	N	SER	X	842	40.091	62.697	95.817	1.00	0.00	N
ATOM	10162	H	SER	X	842	39.661	63.374	96.431	1.00	0.00	H
ATOM	10163	CA	SER	X	842	41.228	63.113	95.039	1.00	0.00	C
ATOM	10164	HA	SER	X	842	41.061	62.727	94.033	1.00	0.00	H
ATOM	10165	CB	SER	X	842	41.277	64.709	95.023	1.00	0.00	C
ATOM	10166	HB2	SER	X	842	42.094	64.899	94.327	1.00	0.00	H

ATOM	10167	HB3	SER	X	842	40.428	65.175	94.522	1.00	0.00	H
ATOM	10168	OG	SER	X	842	41.579	65.313	96.243	1.00	0.00	O
ATOM	10169	HG	SER	X	842	40.776	65.518	96.730	1.00	0.00	H
ATOM	10170	C	SER	X	842	42.505	62.604	95.655	1.00	0.00	C
ATOM	10171	O	SER	X	842	43.280	62.018	94.896	1.00	0.00	O
ATOM	10172	N	VAL	X	843	42.728	62.693	96.976	1.00	0.00	N
ATOM	10173	H	VAL	X	843	42.003	63.087	97.557	1.00	0.00	H
ATOM	10174	CA	VAL	X	843	43.803	61.956	97.658	1.00	0.00	C
ATOM	10175	HA	VAL	X	843	44.705	62.259	97.128	1.00	0.00	H
ATOM	10176	CB	VAL	X	843	43.868	62.323	99.157	1.00	0.00	C
ATOM	10177	HB	VAL	X	843	42.964	62.040	99.695	1.00	0.00	H
ATOM	10178	CG1	VAL	X	843	45.119	61.629	99.707	1.00	0.00	C
ATOM	10179	HG11	VAL	X	843	45.142	61.832	100.778	1.00	0.00	H
ATOM	10180	HG12	VAL	X	843	44.957	60.571	99.496	1.00	0.00	H
ATOM	10181	HG13	VAL	X	843	46.077	61.984	99.325	1.00	0.00	H
ATOM	10182	CG2	VAL	X	843	43.910	63.804	99.397	1.00	0.00	C
ATOM	10183	HG21	VAL	X	843	44.768	64.205	98.859	1.00	0.00	H
ATOM	10184	HG22	VAL	X	843	43.070	64.339	98.950	1.00	0.00	H
ATOM	10185	HG23	VAL	X	843	44.094	64.014	100.451	1.00	0.00	H
ATOM	10186	C	VAL	X	843	43.681	60.419	97.356	1.00	0.00	C
ATOM	10187	O	VAL	X	843	44.694	59.721	97.104	1.00	0.00	O
ATOM	10188	N	ALA	X	844	42.494	59.811	97.412	1.00	0.00	N
ATOM	10189	H	ALA	X	844	41.711	60.402	97.651	1.00	0.00	H
ATOM	10190	CA	ALA	X	844	42.287	58.440	96.901	1.00	0.00	C
ATOM	10191	HA	ALA	X	844	42.897	57.792	97.530	1.00	0.00	H
ATOM	10192	CB	ALA	X	844	40.843	58.171	97.143	1.00	0.00	C
ATOM	10193	HB1	ALA	X	844	40.659	58.331	98.206	1.00	0.00	H
ATOM	10194	HB2	ALA	X	844	40.148	58.787	96.572	1.00	0.00	H
ATOM	10195	HB3	ALA	X	844	40.610	57.133	96.905	1.00	0.00	H
ATOM	10196	C	ALA	X	844	42.763	58.188	95.440	1.00	0.00	C
ATOM	10197	O	ALA	X	844	43.046	57.016	95.109	1.00	0.00	O
ATOM	10198	N	GLN	X	845	42.751	59.187	94.544	1.00	0.00	N
ATOM	10199	H	GLN	X	845	42.245	60.037	94.749	1.00	0.00	H
ATOM	10200	CA	GLN	X	845	43.140	59.036	93.229	1.00	0.00	C
ATOM	10201	HA	GLN	X	845	42.940	58.030	92.859	1.00	0.00	H
ATOM	10202	CB	GLN	X	845	42.288	59.873	92.261	1.00	0.00	C
ATOM	10203	HB2	GLN	X	845	41.358	59.309	92.189	1.00	0.00	H
ATOM	10204	HB3	GLN	X	845	42.148	60.847	92.729	1.00	0.00	H
ATOM	10205	CG	GLN	X	845	42.810	59.924	90.865	1.00	0.00	C
ATOM	10206	HG2	GLN	X	845	43.884	60.108	90.894	1.00	0.00	H
ATOM	10207	HG3	GLN	X	845	42.608	58.960	90.396	1.00	0.00	H
ATOM	10208	CD	GLN	X	845	42.057	60.963	90.011	1.00	0.00	C
ATOM	10209	OE1	GLN	X	845	42.017	62.203	90.338	1.00	0.00	O
ATOM	10210	NE2	GLN	X	845	41.344	60.511	89.015	1.00	0.00	N
ATOM	10211	HE21	GLN	X	845	40.851	61.202	88.467	1.00	0.00	H
ATOM	10212	HE22	GLN	X	845	41.180	59.544	88.774	1.00	0.00	H
ATOM	10213	C	GLN	X	845	44.740	59.208	93.134	1.00	0.00	C
ATOM	10214	O	GLN	X	845	45.358	58.400	92.499	1.00	0.00	O
ATOM	10215	N	LEU	X	846	45.334	60.068	93.960	1.00	0.00	N
ATOM	10216	H	LEU	X	846	44.789	60.718	94.508	1.00	0.00	H
ATOM	10217	CA	LEU	X	846	46.803	60.140	94.140	1.00	0.00	C
ATOM	10218	HA	LEU	X	846	47.329	60.317	93.202	1.00	0.00	H
ATOM	10219	CB	LEU	X	846	47.190	61.297	95.056	1.00	0.00	C
ATOM	10220	HB2	LEU	X	846	46.575	62.189	94.941	1.00	0.00	H
ATOM	10221	HB3	LEU	X	846	47.110	60.956	96.088	1.00	0.00	H
ATOM	10222	CG	LEU	X	846	48.714	61.797	94.940	1.00	0.00	C
ATOM	10223	HG	LEU	X	846	49.379	61.017	94.570	1.00	0.00	H
ATOM	10224	CD1	LEU	X	846	48.790	62.881	93.955	1.00	0.00	C
ATOM	10225	HD11	LEU	X	846	48.464	62.508	92.983	1.00	0.00	H
ATOM	10226	HD12	LEU	X	846	48.130	63.679	94.296	1.00	0.00	H
ATOM	10227	HD13	LEU	X	846	49.858	63.099	93.978	1.00	0.00	H
ATOM	10228	CD2	LEU	X	846	49.295	62.296	96.252	1.00	0.00	C
ATOM	10229	HD21	LEU	X	846	50.313	62.643	96.067	1.00	0.00	H
ATOM	10230	HD22	LEU	X	846	48.614	63.079	96.584	1.00	0.00	H
ATOM	10231	HD23	LEU	X	846	49.316	61.366	96.820	1.00	0.00	H
ATOM	10232	C	LEU	X	846	47.335	58.824	94.636	1.00	0.00	C
ATOM	10233	O	LEU	X	846	48.381	58.391	94.005	1.00	0.00	O
ATOM	10234	N	LEU	X	847	46.754	58.099	95.671	1.00	0.00	N
ATOM	10235	H	LEU	X	847	46.109	58.580	96.279	1.00	0.00	H
ATOM	10236	CA	LEU	X	847	47.016	56.722	96.102	1.00	0.00	C
ATOM	10237	HA	LEU	X	847	48.016	56.828	96.520	1.00	0.00	H
ATOM	10238	CB	LEU	X	847	46.060	56.226	97.221	1.00	0.00	C
ATOM	10239	HB2	LEU	X	847	45.079	56.457	96.803	1.00	0.00	H
ATOM	10240	HB3	LEU	X	847	46.020	55.137	97.237	1.00	0.00	H
ATOM	10241	CG	LEU	X	847	46.093	56.943	98.638	1.00	0.00	C
ATOM	10242	HG	LEU	X	847	45.728	57.964	98.528	1.00	0.00	H
ATOM	10243	CD1	LEU	X	847	45.201	56.223	99.617	1.00	0.00	C
ATOM	10244	HD11	LEU	X	847	44.168	56.187	99.272	1.00	0.00	H
ATOM	10245	HD12	LEU	X	847	45.517	55.192	99.776	1.00	0.00	H
ATOM	10246	HD13	LEU	X	847	45.126	56.680	100.604	1.00	0.00	H
ATOM	10247	CD2	LEU	X	847	47.539	57.012	99.186	1.00	0.00	C
ATOM	10248	HD21	LEU	X	847	48.267	57.602	98.630	1.00	0.00	H

ATOM	10249	HD22	LEU	X	847	47.444	57.362	100.214	1.00	0.00	H
ATOM	10250	HD23	LEU	X	847	47.980	56.015	99.146	1.00	0.00	H
ATOM	10251	C	LEU	X	847	47.056	55.731	94.959	1.00	0.00	C
ATOM	10252	O	LEU	X	847	48.076	55.041	94.788	1.00	0.00	O
ATOM	10253	N	ALA	X	848	45.962	55.465	94.284	1.00	0.00	N
ATOM	10254	H	ALA	X	848	45.174	56.058	94.504	1.00	0.00	H
ATOM	10255	CA	ALA	X	848	45.875	54.585	93.061	1.00	0.00	C
ATOM	10256	HA	ALA	X	848	46.087	53.586	93.441	1.00	0.00	H
ATOM	10257	CB	ALA	X	848	44.447	54.587	92.501	1.00	0.00	C
ATOM	10258	HB1	ALA	X	848	44.336	53.901	91.660	1.00	0.00	H
ATOM	10259	HB2	ALA	X	848	43.745	54.406	93.315	1.00	0.00	H
ATOM	10260	HB3	ALA	X	848	44.246	55.565	92.065	1.00	0.00	H
ATOM	10261	C	ALA	X	848	47.037	54.867	92.110	1.00	0.00	C
ATOM	10262	O	ALA	X	848	47.760	53.957	91.764	1.00	0.00	O
ATOM	10263	N	CYS	X	849	47.133	56.093	91.575	1.00	0.00	N
ATOM	10264	H	CYS	X	849	46.626	56.809	92.076	1.00	0.00	H
ATOM	10265	CA	CYS	X	849	47.927	56.480	90.326	1.00	0.00	C
ATOM	10266	HA	CYS	X	849	47.618	55.836	89.503	1.00	0.00	H
ATOM	10267	CB	CYS	X	849	47.484	57.872	89.822	1.00	0.00	C
ATOM	10268	HB2	CYS	X	849	47.670	58.585	90.625	1.00	0.00	H
ATOM	10269	HB3	CYS	X	849	47.945	58.188	88.886	1.00	0.00	H
ATOM	10270	SG	CYS	X	849	45.771	57.832	89.419	1.00	0.00	S
ATOM	10271	HG	CYS	X	849	45.452	57.477	90.668	1.00	0.00	H
ATOM	10272	C	CYS	X	849	49.517	56.540	90.544	1.00	0.00	C
ATOM	10273	O	CYS	X	849	50.269	56.045	89.722	1.00	0.00	O
ATOM	10274	N	LYS	X	850	50.000	57.311	91.504	1.00	0.00	N
ATOM	10275	H	LYS	X	850	49.408	57.549	92.286	1.00	0.00	H
ATOM	10276	CA	LYS	X	850	51.374	57.804	91.516	1.00	0.00	C
ATOM	10277	HA	LYS	X	850	51.679	58.008	90.489	1.00	0.00	H
ATOM	10278	CB	LYS	X	850	51.429	59.176	92.255	1.00	0.00	C
ATOM	10279	HB2	LYS	X	850	51.130	58.944	93.278	1.00	0.00	H
ATOM	10280	HB3	LYS	X	850	52.420	59.625	92.210	1.00	0.00	H
ATOM	10281	CG	LYS	X	850	50.418	60.172	91.732	1.00	0.00	C
ATOM	10282	HG2	LYS	X	850	49.380	59.904	91.938	1.00	0.00	H
ATOM	10283	HG3	LYS	X	850	50.717	61.085	92.245	1.00	0.00	H
ATOM	10284	CD	LYS	X	850	50.522	60.414	90.161	1.00	0.00	C
ATOM	10285	HD2	LYS	X	850	50.474	59.479	89.604	1.00	0.00	H
ATOM	10286	HD3	LYS	X	850	49.655	61.000	89.859	1.00	0.00	H
ATOM	10287	CE	LYS	X	850	51.731	61.127	89.789	1.00	0.00	C
ATOM	10288	HE2	LYS	X	850	51.730	62.116	90.249	1.00	0.00	H
ATOM	10289	HE3	LYS	X	850	52.608	60.626	90.199	1.00	0.00	H
ATOM	10290	NZ	LYS	X	850	51.850	61.341	88.327	1.00	0.00	N
ATOM	10291	HZ1	LYS	X	850	52.749	61.598	87.942	1.00	0.00	H
ATOM	10292	HZ2	LYS	X	850	51.601	60.515	87.802	1.00	0.00	H
ATOM	10293	HZ3	LYS	X	850	51.255	62.086	87.994	1.00	0.00	H
ATOM	10294	C	LYS	X	850	52.361	56.754	92.057	1.00	0.00	C
ATOM	10295	O	LYS	X	850	52.033	55.962	92.891	1.00	0.00	O
ATOM	10296	N	GLN	X	851	53.575	56.757	91.514	1.00	0.00	N
ATOM	10297	H	GLN	X	851	53.686	57.379	90.726	1.00	0.00	H
ATOM	10298	CA	GLN	X	851	54.582	55.720	91.579	1.00	0.00	C
ATOM	10299	HA	GLN	X	851	54.224	54.749	91.922	1.00	0.00	H
ATOM	10300	CB	GLN	X	851	55.092	55.547	90.117	1.00	0.00	C
ATOM	10301	HB2	GLN	X	851	55.494	56.432	89.627	1.00	0.00	H
ATOM	10302	HB3	GLN	X	851	55.923	54.855	90.253	1.00	0.00	H
ATOM	10303	CG	GLN	X	851	53.950	54.814	89.324	1.00	0.00	C
ATOM	10304	HG2	GLN	X	851	53.230	55.610	89.141	1.00	0.00	H
ATOM	10305	HG3	GLN	X	851	54.421	54.435	88.418	1.00	0.00	H
ATOM	10306	CD	GLN	X	851	53.206	53.692	89.933	1.00	0.00	C
ATOM	10307	OE1	GLN	X	851	52.029	53.785	90.216	1.00	0.00	O
ATOM	10308	NE2	GLN	X	851	53.793	52.564	90.302	1.00	0.00	N
ATOM	10309	HE21	GLN	X	851	53.233	52.044	90.963	1.00	0.00	H
ATOM	10310	HE22	GLN	X	851	54.787	52.416	90.190	1.00	0.00	H
ATOM	10311	C	GLN	X	851	55.654	56.129	92.572	1.00	0.00	C
ATOM	10312	O	GLN	X	851	56.371	55.273	93.053	1.00	0.00	O
ATOM	10313	N	ASN	X	852	55.838	57.428	92.931	1.00	0.00	N
ATOM	10314	H	ASN	X	852	55.387	58.028	92.255	1.00	0.00	H
ATOM	10315	CA	ASN	X	852	56.782	58.009	93.907	1.00	0.00	C
ATOM	10316	HA	ASN	X	852	57.530	57.233	94.072	1.00	0.00	H
ATOM	10317	CB	ASN	X	852	57.481	59.237	93.309	1.00	0.00	C
ATOM	10318	HB2	ASN	X	852	56.640	59.903	93.113	1.00	0.00	H
ATOM	10319	HB3	ASN	X	852	58.032	59.773	94.082	1.00	0.00	H
ATOM	10320	CG	ASN	X	852	58.394	59.070	92.075	1.00	0.00	C
ATOM	10321	OD1	ASN	X	852	58.905	58.035	91.702	1.00	0.00	O
ATOM	10322	ND2	ASN	X	852	58.596	60.188	91.370	1.00	0.00	N
ATOM	10323	HD21	ASN	X	852	59.161	60.151	90.533	1.00	0.00	H
ATOM	10324	HD22	ASN	X	852	58.100	61.020	91.657	1.00	0.00	H
ATOM	10325	C	ASN	X	852	56.042	58.378	95.227	1.00	0.00	C
ATOM	10326	O	ASN	X	852	56.816	58.644	96.191	1.00	0.00	O
ATOM	10327	N	PHE	X	853	54.656	58.466	95.343	1.00	0.00	N
ATOM	10328	H	PHE	X	853	54.117	58.365	94.494	1.00	0.00	H
ATOM	10329	CA	PHE	X	853	54.089	58.940	96.589	1.00	0.00	C
ATOM	10330	HA	PHE	X	853	54.645	59.845	96.833	1.00	0.00	H

ATOM	10331	CB	PHE	X	853	52.674	59.403	96.375	1.00	0.00	C
ATOM	10332	HB2	PHE	X	853	52.658	60.060	95.506	1.00	0.00	H
ATOM	10333	HB3	PHE	X	853	52.080	58.517	96.147	1.00	0.00	H
ATOM	10334	CG	PHE	X	853	52.077	60.121	97.596	1.00	0.00	C
ATOM	10335	CD1	PHE	X	853	50.991	59.500	98.247	1.00	0.00	C
ATOM	10336	HD1	PHE	X	853	50.571	58.581	97.863	1.00	0.00	H
ATOM	10337	CE1	PHE	X	853	50.435	60.122	99.373	1.00	0.00	C
ATOM	10338	HE1	PHE	X	853	49.537	59.666	99.764	1.00	0.00	H
ATOM	10339	CZ	PHE	X	853	50.999	61.355	99.849	1.00	0.00	C
ATOM	10340	HZ	PHE	X	853	50.660	61.818	100.763	1.00	0.00	H
ATOM	10341	CE2	PHE	X	853	52.137	61.891	99.324	1.00	0.00	C
ATOM	10342	HE2	PHE	X	853	52.585	62.726	99.843	1.00	0.00	H
ATOM	10343	CD2	PHE	X	853	52.648	61.303	98.111	1.00	0.00	C
ATOM	10344	HD2	PHE	X	853	53.527	61.677	97.608	1.00	0.00	H
ATOM	10345	C	PHE	X	853	54.195	57.908	97.714	1.00	0.00	C
ATOM	10346	O	PHE	X	853	53.942	56.736	97.439	1.00	0.00	O
ATOM	10347	N	LEU	X	854	54.597	58.250	98.969	1.00	0.00	N
ATOM	10348	H	LEU	X	854	54.697	59.230	99.187	1.00	0.00	H
ATOM	10349	CA	LEU	X	854	55.265	57.299	99.833	1.00	0.00	C
ATOM	10350	HA	LEU	X	854	55.132	56.267	99.509	1.00	0.00	H
ATOM	10351	CB	LEU	X	854	56.738	57.782	99.607	1.00	0.00	C
ATOM	10352	HB2	LEU	X	854	56.941	57.603	98.551	1.00	0.00	H
ATOM	10353	HB3	LEU	X	854	56.706	58.849	99.828	1.00	0.00	H
ATOM	10354	CG	LEU	X	854	57.765	57.097	100.582	1.00	0.00	C
ATOM	10355	HG	LEU	X	854	57.473	57.001	101.627	1.00	0.00	H
ATOM	10356	CD1	LEU	X	854	58.081	55.670	100.134	1.00	0.00	C
ATOM	10357	HD11	LEU	X	854	58.485	55.705	99.122	1.00	0.00	H
ATOM	10358	HD12	LEU	X	854	58.781	55.333	100.899	1.00	0.00	H
ATOM	10359	HD13	LEU	X	854	57.110	55.179	100.077	1.00	0.00	H
ATOM	10360	CD2	LEU	X	854	59.055	57.822	100.545	1.00	0.00	C
ATOM	10361	HD21	LEU	X	854	59.778	57.283	101.157	1.00	0.00	H
ATOM	10362	HD22	LEU	X	854	59.284	57.766	99.481	1.00	0.00	H
ATOM	10363	HD23	LEU	X	854	58.962	58.825	100.959	1.00	0.00	H
ATOM	10364	C	LEU	X	854	54.854	57.508	101.365	1.00	0.00	C
ATOM	10365	O	LEU	X	854	54.812	56.500	102.160	1.00	0.00	O
ATOM	10366	N	ALA	X	855	54.444	58.722	101.697	1.00	0.00	N
ATOM	10367	H	ALA	X	855	54.545	59.491	101.049	1.00	0.00	H
ATOM	10368	CA	ALA	X	855	54.276	58.996	103.127	1.00	0.00	C
ATOM	10369	HA	ALA	X	855	54.080	58.094	103.707	1.00	0.00	H
ATOM	10370	CB	ALA	X	855	55.644	59.478	103.715	1.00	0.00	C
ATOM	10371	HB1	ALA	X	855	56.347	58.712	103.387	1.00	0.00	H
ATOM	10372	HB2	ALA	X	855	55.842	60.477	103.327	1.00	0.00	H
ATOM	10373	HB3	ALA	X	855	55.670	59.609	104.796	1.00	0.00	H
ATOM	10374	C	ALA	X	855	53.117	60.065	103.277	1.00	0.00	C
ATOM	10375	O	ALA	X	855	53.277	61.141	102.785	1.00	0.00	O
ATOM	10376	N	LEU	X	856	52.001	59.777	103.952	1.00	0.00	N
ATOM	10377	H	LEU	X	856	52.007	58.904	104.460	1.00	0.00	H
ATOM	10378	CA	LEU	X	856	50.760	60.550	104.097	1.00	0.00	C
ATOM	10379	HA	LEU	X	856	50.947	61.571	103.767	1.00	0.00	H
ATOM	10380	CB	LEU	X	856	49.682	59.927	103.135	1.00	0.00	C
ATOM	10381	HB2	LEU	X	856	50.099	59.882	102.128	1.00	0.00	H
ATOM	10382	HB3	LEU	X	856	49.416	58.922	103.463	1.00	0.00	H
ATOM	10383	CG	LEU	X	856	48.399	60.719	103.174	1.00	0.00	C
ATOM	10384	HG	LEU	X	856	48.063	60.764	104.210	1.00	0.00	H
ATOM	10385	CD1	LEU	X	856	48.526	62.212	102.670	1.00	0.00	C
ATOM	10386	HD11	LEU	X	856	49.423	62.635	103.124	1.00	0.00	H
ATOM	10387	HD12	LEU	X	856	48.721	62.167	101.600	1.00	0.00	H
ATOM	10388	HD13	LEU	X	856	47.560	62.680	102.857	1.00	0.00	H
ATOM	10389	CD2	LEU	X	856	47.308	60.163	102.282	1.00	0.00	C
ATOM	10390	HD21	LEU	X	856	47.551	60.175	101.220	1.00	0.00	H
ATOM	10391	HD22	LEU	X	856	47.132	59.134	102.594	1.00	0.00	H
ATOM	10392	HD23	LEU	X	856	46.354	60.635	102.517	1.00	0.00	H
ATOM	10393	C	LEU	X	856	50.310	60.460	105.611	1.00	0.00	C
ATOM	10394	O	LEU	X	856	49.969	59.426	106.182	1.00	0.00	O
ATOM	10395	N	ARG	X	857	50.096	61.661	106.257	1.00	0.00	N
ATOM	10396	H	ARG	X	857	50.302	62.478	105.699	1.00	0.00	H
ATOM	10397	CA	ARG	X	857	49.438	61.840	107.545	1.00	0.00	C
ATOM	10398	HA	ARG	X	857	48.966	60.905	107.847	1.00	0.00	H
ATOM	10399	CB	ARG	X	857	50.467	62.129	108.628	1.00	0.00	C
ATOM	10400	HB2	ARG	X	857	50.940	63.099	108.476	1.00	0.00	H
ATOM	10401	HB3	ARG	X	857	50.024	62.211	109.621	1.00	0.00	H
ATOM	10402	CG	ARG	X	857	51.540	61.006	108.834	1.00	0.00	C
ATOM	10403	HG2	ARG	X	857	50.922	60.136	109.053	1.00	0.00	H
ATOM	10404	HG3	ARG	X	857	52.015	60.927	107.855	1.00	0.00	H
ATOM	10405	CD	ARG	X	857	52.548	61.253	110.023	1.00	0.00	C
ATOM	10406	HD2	ARG	X	857	53.046	62.206	109.847	1.00	0.00	H
ATOM	10407	HD3	ARG	X	857	51.928	61.422	110.903	1.00	0.00	H
ATOM	10408	NE	ARG	X	857	53.649	60.252	110.017	1.00	0.00	N
ATOM	10409	HE	ARG	X	857	53.856	59.865	109.107	1.00	0.00	H
ATOM	10410	CZ	ARG	X	857	54.422	59.776	110.967	1.00	0.00	C
ATOM	10411	NH1	ARG	X	857	54.386	60.303	112.192	1.00	0.00	N
ATOM	10412	HH11	ARG	X	857	53.694	61.025	112.334	1.00	0.00	H

ATOM	10413	HH12	ARG	X	857	54.946	59.880	112.918	1.00	0.00	H
ATOM	10414	NH2	ARG	X	857	55.284	58.876	110.708	1.00	0.00	N
ATOM	10415	HH21	ARG	X	857	55.304	58.511	109.768	1.00	0.00	H
ATOM	10416	HH22	ARG	X	857	56.013	58.842	111.406	1.00	0.00	H
ATOM	10417	C	ARG	X	857	48.242	62.829	107.612	1.00	0.00	C
ATOM	10418	O	ARG	X	857	48.359	63.872	106.939	1.00	0.00	O
ATOM	10419	N	LEU	X	858	47.179	62.520	108.299	1.00	0.00	N
ATOM	10420	H	LEU	X	858	47.148	61.595	108.700	1.00	0.00	H
ATOM	10421	CA	LEU	X	858	46.027	63.397	108.546	1.00	0.00	C
ATOM	10422	HA	LEU	X	858	46.250	64.403	108.186	1.00	0.00	H
ATOM	10423	CB	LEU	X	858	44.787	62.895	107.858	1.00	0.00	C
ATOM	10424	HB2	LEU	X	858	44.512	61.880	108.144	1.00	0.00	H
ATOM	10425	HB3	LEU	X	858	43.947	63.561	108.048	1.00	0.00	H
ATOM	10426	CG	LEU	X	858	44.883	62.827	106.308	1.00	0.00	C
ATOM	10427	HG	LEU	X	858	45.747	63.443	106.060	1.00	0.00	H
ATOM	10428	CD1	LEU	X	858	45.214	61.417	105.694	1.00	0.00	C
ATOM	10429	HD11	LEU	X	858	46.173	61.029	106.034	1.00	0.00	H
ATOM	10430	HD12	LEU	X	858	44.420	60.734	105.998	1.00	0.00	H
ATOM	10431	HD13	LEU	X	858	45.267	61.426	104.604	1.00	0.00	H
ATOM	10432	CD2	LEU	X	858	43.714	63.421	105.548	1.00	0.00	C
ATOM	10433	HD21	LEU	X	858	42.789	62.851	105.625	1.00	0.00	H
ATOM	10434	HD22	LEU	X	858	43.590	64.477	105.787	1.00	0.00	H
ATOM	10435	HD23	LEU	X	858	44.093	63.338	104.529	1.00	0.00	H
ATOM	10436	C	LEU	X	858	45.803	63.418	110.025	1.00	0.00	C
ATOM	10437	O	LEU	X	858	46.173	62.463	110.728	1.00	0.00	O
ATOM	10438	N	GLY	X	859	45.045	64.429	110.502	1.00	0.00	N
ATOM	10439	H	GLY	X	859	44.554	65.034	109.861	1.00	0.00	H
ATOM	10440	CA	GLY	X	859	45.023	64.661	111.937	1.00	0.00	C
ATOM	10441	HA2	GLY	X	859	44.733	63.700	112.361	1.00	0.00	H
ATOM	10442	HA3	GLY	X	859	46.031	64.927	112.253	1.00	0.00	H
ATOM	10443	C	GLY	X	859	44.082	65.828	112.457	1.00	0.00	C
ATOM	10444	O	GLY	X	859	44.233	67.010	112.033	1.00	0.00	O
ATOM	10445	N	ASN	X	860	43.116	65.447	113.319	1.00	0.00	N
ATOM	10446	H	ASN	X	860	43.129	64.546	113.774	1.00	0.00	H
ATOM	10447	CA	ASN	X	860	41.950	66.257	113.735	1.00	0.00	C
ATOM	10448	HA	ASN	X	860	41.277	65.554	114.228	1.00	0.00	H
ATOM	10449	CB	ASN	X	860	42.403	67.218	114.796	1.00	0.00	C
ATOM	10450	HB2	ASN	X	860	42.907	68.056	114.316	1.00	0.00	H
ATOM	10451	HB3	ASN	X	860	41.547	67.729	115.236	1.00	0.00	H
ATOM	10452	CG	ASN	X	860	43.224	66.712	115.961	1.00	0.00	C
ATOM	10453	OD1	ASN	X	860	42.904	65.683	116.460	1.00	0.00	O
ATOM	10454	ND2	ASN	X	860	44.209	67.379	116.486	1.00	0.00	N
ATOM	10455	HD21	ASN	X	860	44.629	66.925	117.285	1.00	0.00	H
ATOM	10456	HD22	ASN	X	860	44.528	68.257	116.100	1.00	0.00	H
ATOM	10457	C	ASN	X	860	41.172	66.975	112.542	1.00	0.00	C
ATOM	10458	O	ASN	X	860	40.420	67.950	112.790	1.00	0.00	O
ATOM	10459	N	ASN	X	861	41.365	66.579	111.275	1.00	0.00	N
ATOM	10460	H	ASN	X	861	42.036	65.827	111.228	1.00	0.00	H
ATOM	10461	CA	ASN	X	861	40.474	66.843	110.207	1.00	0.00	C
ATOM	10462	HA	ASN	X	861	40.147	67.877	110.327	1.00	0.00	H
ATOM	10463	CB	ASN	X	861	41.119	66.664	108.789	1.00	0.00	C
ATOM	10464	HB2	ASN	X	861	40.896	65.670	108.404	1.00	0.00	H
ATOM	10465	HB3	ASN	X	861	40.686	67.389	108.099	1.00	0.00	H
ATOM	10466	CG	ASN	X	861	42.608	66.898	108.772	1.00	0.00	C
ATOM	10467	OD1	ASN	X	861	43.341	65.956	108.918	1.00	0.00	O
ATOM	10468	ND2	ASN	X	861	43.098	68.087	108.710	1.00	0.00	N
ATOM	10469	HD21	ASN	X	861	44.099	68.155	108.824	1.00	0.00	H
ATOM	10470	HD22	ASN	X	861	42.555	68.858	108.351	1.00	0.00	H
ATOM	10471	C	ASN	X	861	39.259	66.003	110.285	1.00	0.00	C
ATOM	10472	O	ASN	X	861	39.381	64.892	110.758	1.00	0.00	O
ATOM	10473	N	HIE	X	862	38.056	66.463	109.796	1.00	0.00	N
ATOM	10474	H	HIE	X	862	37.862	67.417	109.528	1.00	0.00	H
ATOM	10475	CA	HIE	X	862	36.802	65.688	109.948	1.00	0.00	C
ATOM	10476	HA	HIE	X	862	36.842	65.201	110.922	1.00	0.00	H
ATOM	10477	CB	HIE	X	862	35.642	66.695	109.871	1.00	0.00	C
ATOM	10478	HB2	HIE	X	862	35.843	67.568	110.490	1.00	0.00	H
ATOM	10479	HB3	HIE	X	862	35.526	67.051	108.848	1.00	0.00	H
ATOM	10480	CG	HIE	X	862	34.197	66.249	110.232	1.00	0.00	C
ATOM	10481	ND1	HIE	X	862	33.683	64.911	110.252	1.00	0.00	N
ATOM	10482	CE1	HIE	X	862	32.390	65.121	110.422	1.00	0.00	C
ATOM	10483	HE1	HIE	X	862	31.601	64.389	110.509	1.00	0.00	H
ATOM	10484	NE2	HIE	X	862	32.036	66.420	110.610	1.00	0.00	N
ATOM	10485	HE2	HIE	X	862	31.143	66.781	110.913	1.00	0.00	H
ATOM	10486	CD2	HIE	X	862	33.168	67.121	110.409	1.00	0.00	C
ATOM	10487	HD2	HIE	X	862	33.217	68.198	110.350	1.00	0.00	H
ATOM	10488	C	HIE	X	862	36.815	64.622	108.877	1.00	0.00	C
ATOM	10489	O	HIE	X	862	36.490	64.951	107.745	1.00	0.00	O
ATOM	10490	N	ILE	X	863	36.982	63.363	109.232	1.00	0.00	N
ATOM	10491	H	ILE	X	863	37.274	63.260	110.194	1.00	0.00	H
ATOM	10492	CA	ILE	X	863	36.946	62.195	108.405	1.00	0.00	C
ATOM	10493	HA	ILE	X	863	36.685	62.428	107.372	1.00	0.00	H
ATOM	10494	CB	ILE	X	863	38.411	61.592	108.234	1.00	0.00	C

ATOM	10495	HB	ILE	X	863	38.694	61.139	109.183	1.00	0.00	H
ATOM	10496	CG2	ILE	X	863	38.343	60.318	107.312	1.00	0.00	C
ATOM	10497	HG21	ILE	X	863	37.732	59.468	107.613	1.00	0.00	H
ATOM	10498	HG22	ILE	X	863	38.247	60.623	106.270	1.00	0.00	H
ATOM	10499	HG23	ILE	X	863	39.325	59.853	107.396	1.00	0.00	H
ATOM	10500	CG1	ILE	X	863	39.512	62.560	107.859	1.00	0.00	C
ATOM	10501	HG12	ILE	X	863	39.673	63.280	108.661	1.00	0.00	H
ATOM	10502	HG13	ILE	X	863	40.465	62.033	107.813	1.00	0.00	H
ATOM	10503	CD1	ILE	X	863	39.322	63.448	106.582	1.00	0.00	C
ATOM	10504	HD11	ILE	X	863	39.367	62.794	105.712	1.00	0.00	H
ATOM	10505	HD12	ILE	X	863	38.435	64.081	106.563	1.00	0.00	H
ATOM	10506	HD13	ILE	X	863	40.126	64.174	106.468	1.00	0.00	H
ATOM	10507	C	ILE	X	863	35.977	61.100	108.947	1.00	0.00	C
ATOM	10508	O	ILE	X	863	36.192	60.542	110.061	1.00	0.00	O
ATOM	10509	N	THR	X	864	34.999	60.733	108.166	1.00	0.00	N
ATOM	10510	H	THR	X	864	34.803	61.227	107.306	1.00	0.00	H
ATOM	10511	CA	THR	X	864	33.952	59.733	108.458	1.00	0.00	C
ATOM	10512	HA	THR	X	864	33.757	59.686	109.530	1.00	0.00	H
ATOM	10513	CB	THR	X	864	32.561	60.018	107.859	1.00	0.00	C
ATOM	10514	HB	THR	X	864	31.983	59.094	107.857	1.00	0.00	H
ATOM	10515	CG2	THR	X	864	31.848	61.223	108.505	1.00	0.00	C
ATOM	10516	HG21	THR	X	864	32.518	62.073	108.623	1.00	0.00	H
ATOM	10517	HG22	THR	X	864	31.028	61.582	107.884	1.00	0.00	H
ATOM	10518	HG23	THR	X	864	31.519	60.876	109.486	1.00	0.00	H
ATOM	10519	OG1	THR	X	864	32.678	60.335	106.455	1.00	0.00	O
ATOM	10520	HG1	THR	X	864	33.107	61.193	106.446	1.00	0.00	H
ATOM	10521	C	THR	X	864	34.449	58.372	107.959	1.00	0.00	C
ATOM	10522	O	THR	X	864	35.455	58.311	107.300	1.00	0.00	O
ATOM	10523	N	ALA	X	865	33.790	57.312	108.408	1.00	0.00	N
ATOM	10524	H	ALA	X	865	33.056	57.391	109.096	1.00	0.00	H
ATOM	10525	CA	ALA	X	865	34.002	56.046	107.679	1.00	0.00	C
ATOM	10526	HA	ALA	X	865	35.053	55.775	107.790	1.00	0.00	H
ATOM	10527	CB	ALA	X	865	33.080	55.058	108.264	1.00	0.00	C
ATOM	10528	HB1	ALA	X	865	32.036	55.301	108.069	1.00	0.00	H
ATOM	10529	HB2	ALA	X	865	33.314	54.139	107.726	1.00	0.00	H
ATOM	10530	HB3	ALA	X	865	33.390	54.859	109.290	1.00	0.00	H
ATOM	10531	C	ALA	X	865	33.828	56.143	106.169	1.00	0.00	C
ATOM	10532	O	ALA	X	865	34.562	55.506	105.429	1.00	0.00	O
ATOM	10533	N	GLU	X	866	32.935	57.073	105.658	1.00	0.00	N
ATOM	10534	H	GLU	X	866	32.288	57.528	106.287	1.00	0.00	H
ATOM	10535	CA	GLU	X	866	32.913	57.443	104.259	1.00	0.00	C
ATOM	10536	HA	GLU	X	866	32.891	56.527	103.670	1.00	0.00	H
ATOM	10537	CB	GLU	X	866	31.615	58.202	103.921	1.00	0.00	C
ATOM	10538	HB2	GLU	X	866	30.848	57.931	104.648	1.00	0.00	H
ATOM	10539	HB3	GLU	X	866	31.669	59.289	103.988	1.00	0.00	H
ATOM	10540	CG	GLU	X	866	31.134	57.809	102.437	1.00	0.00	C
ATOM	10541	HG2	GLU	X	866	31.824	58.106	101.646	1.00	0.00	H
ATOM	10542	HG3	GLU	X	866	31.140	56.720	102.411	1.00	0.00	H
ATOM	10543	CD	GLU	X	866	29.752	58.524	102.223	1.00	0.00	C
ATOM	10544	OE1	GLU	X	866	29.493	58.745	101.017	1.00	0.00	O
ATOM	10545	OE2	GLU	X	866	28.960	58.881	103.111	1.00	0.00	O
ATOM	10546	C	GLU	X	866	34.164	58.209	103.772	1.00	0.00	C
ATOM	10547	O	GLU	X	866	34.577	57.991	102.643	1.00	0.00	O
ATOM	10548	N	GLY	X	867	34.908	58.960	104.579	1.00	0.00	N
ATOM	10549	H	GLY	X	867	34.526	58.941	105.513	1.00	0.00	H
ATOM	10550	CA	GLY	X	867	36.245	59.424	104.195	1.00	0.00	C
ATOM	10551	HA2	GLY	X	867	36.088	59.759	103.169	1.00	0.00	H
ATOM	10552	HA3	GLY	X	867	36.450	60.295	104.818	1.00	0.00	H
ATOM	10553	C	GLY	X	867	37.303	58.286	104.284	1.00	0.00	C
ATOM	10554	O	GLY	X	867	38.221	58.252	103.487	1.00	0.00	O
ATOM	10555	N	ALA	X	868	37.215	57.369	105.239	1.00	0.00	N
ATOM	10556	H	ALA	X	868	36.462	57.472	105.904	1.00	0.00	H
ATOM	10557	CA	ALA	X	868	38.130	56.255	105.220	1.00	0.00	C
ATOM	10558	HA	ALA	X	868	39.126	56.683	105.115	1.00	0.00	H
ATOM	10559	CB	ALA	X	868	38.080	55.658	106.670	1.00	0.00	C
ATOM	10560	HB1	ALA	X	868	38.202	56.560	107.272	1.00	0.00	H
ATOM	10561	HB2	ALA	X	868	37.174	55.120	106.949	1.00	0.00	H
ATOM	10562	HB3	ALA	X	868	38.921	54.979	106.812	1.00	0.00	H
ATOM	10563	C	ALA	X	868	37.898	55.259	104.093	1.00	0.00	C
ATOM	10564	O	ALA	X	868	38.874	54.737	103.545	1.00	0.00	O
ATOM	10565	N	GLN	X	869	36.623	55.109	103.649	1.00	0.00	N
ATOM	10566	H	GLN	X	869	35.791	55.527	104.041	1.00	0.00	H
ATOM	10567	CA	GLN	X	869	36.209	54.218	102.538	1.00	0.00	C
ATOM	10568	HA	GLN	X	869	36.677	53.262	102.773	1.00	0.00	H
ATOM	10569	CB	GLN	X	869	34.697	53.994	102.530	1.00	0.00	C
ATOM	10570	HB2	GLN	X	869	34.247	53.704	103.479	1.00	0.00	H
ATOM	10571	HB3	GLN	X	869	34.273	54.970	102.294	1.00	0.00	H
ATOM	10572	CG	GLN	X	869	34.197	52.997	101.479	1.00	0.00	C
ATOM	10573	HG2	GLN	X	869	33.114	53.114	101.412	1.00	0.00	H
ATOM	10574	HG3	GLN	X	869	34.466	53.341	100.481	1.00	0.00	H
ATOM	10575	CD	GLN	X	869	34.748	51.545	101.620	1.00	0.00	C
ATOM	10576	OE1	GLN	X	869	34.090	50.604	102.099	1.00	0.00	O

ATOM	10577	NE2	GLN	X	869	35.859	51.299	101.061	1.00	0.00	N
ATOM	10578	HE21	GLN	X	869	36.260	50.378	101.154	1.00	0.00	H
ATOM	10579	HE22	GLN	X	869	36.341	52.068	100.618	1.00	0.00	H
ATOM	10580	C	GLN	X	869	36.658	54.600	101.210	1.00	0.00	C
ATOM	10581	O	GLN	X	869	37.247	53.839	100.455	1.00	0.00	O
ATOM	10582	N	VAL	X	870	36.597	55.932	100.917	1.00	0.00	N
ATOM	10583	H	VAL	X	870	36.210	56.576	101.591	1.00	0.00	H
ATOM	10584	CA	VAL	X	870	36.977	56.447	99.653	1.00	0.00	C
ATOM	10585	HA	VAL	X	870	36.600	55.720	98.934	1.00	0.00	H
ATOM	10586	CB	VAL	X	870	36.435	57.859	99.410	1.00	0.00	C
ATOM	10587	HB	VAL	X	870	35.361	57.912	99.585	1.00	0.00	H
ATOM	10588	CG1	VAL	X	870	37.119	58.984	100.232	1.00	0.00	C
ATOM	10589	HG11	VAL	X	870	38.170	58.970	99.944	1.00	0.00	H
ATOM	10590	HG12	VAL	X	870	36.860	60.007	99.961	1.00	0.00	H
ATOM	10591	HG13	VAL	X	870	36.941	58.876	101.303	1.00	0.00	H
ATOM	10592	CG2	VAL	X	870	36.493	58.253	97.946	1.00	0.00	C
ATOM	10593	HG21	VAL	X	870	35.802	59.092	97.849	1.00	0.00	H
ATOM	10594	HG22	VAL	X	870	37.527	58.414	97.642	1.00	0.00	H
ATOM	10595	HG23	VAL	X	870	36.174	57.390	97.361	1.00	0.00	H
ATOM	10596	C	VAL	X	870	38.505	56.365	99.428	1.00	0.00	C
ATOM	10597	O	VAL	X	870	38.898	55.921	98.375	1.00	0.00	O
ATOM	10598	N	LEU	X	871	39.354	56.775	100.417	1.00	0.00	N
ATOM	10599	H	LEU	X	871	38.947	57.212	101.231	1.00	0.00	H
ATOM	10600	CA	LEU	X	871	40.783	56.437	100.544	1.00	0.00	C
ATOM	10601	HA	LEU	X	871	41.343	56.897	99.730	1.00	0.00	H
ATOM	10602	CB	LEU	X	871	41.400	57.029	101.872	1.00	0.00	C
ATOM	10603	HB2	LEU	X	871	40.634	56.720	102.583	1.00	0.00	H
ATOM	10604	HB3	LEU	X	871	42.372	56.564	102.043	1.00	0.00	H
ATOM	10605	CG	LEU	X	871	41.461	58.544	101.967	1.00	0.00	C
ATOM	10606	HG	LEU	X	871	40.548	58.986	101.568	1.00	0.00	H
ATOM	10607	CD1	LEU	X	871	41.660	59.121	103.389	1.00	0.00	C
ATOM	10608	HD11	LEU	X	871	41.860	60.190	103.311	1.00	0.00	H
ATOM	10609	HD12	LEU	X	871	40.725	58.994	103.933	1.00	0.00	H
ATOM	10610	HD13	LEU	X	871	42.579	58.729	103.826	1.00	0.00	H
ATOM	10611	CD2	LEU	X	871	42.510	59.169	101.097	1.00	0.00	C
ATOM	10612	HD21	LEU	X	871	42.541	60.258	101.079	1.00	0.00	H
ATOM	10613	HD22	LEU	X	871	43.463	58.837	101.507	1.00	0.00	H
ATOM	10614	HD23	LEU	X	871	42.397	58.775	100.086	1.00	0.00	H
ATOM	10615	C	LEU	X	871	41.097	54.988	100.539	1.00	0.00	C
ATOM	10616	O	LEU	X	871	42.103	54.618	99.900	1.00	0.00	O
ATOM	10617	N	ALA	X	872	40.352	54.055	101.196	1.00	0.00	N
ATOM	10618	H	ALA	X	872	39.567	54.326	101.769	1.00	0.00	H
ATOM	10619	CA	ALA	X	872	40.660	52.633	101.010	1.00	0.00	C
ATOM	10620	HA	ALA	X	872	41.724	52.402	101.012	1.00	0.00	H
ATOM	10621	CB	ALA	X	872	39.897	51.903	102.130	1.00	0.00	C
ATOM	10622	HB1	ALA	X	872	38.809	51.963	102.136	1.00	0.00	H
ATOM	10623	HB2	ALA	X	872	40.083	50.829	102.170	1.00	0.00	H
ATOM	10624	HB3	ALA	X	872	40.244	52.307	103.081	1.00	0.00	H
ATOM	10625	C	ALA	X	872	40.271	51.988	99.612	1.00	0.00	C
ATOM	10626	O	ALA	X	872	41.018	51.093	99.187	1.00	0.00	O
ATOM	10627	N	GLU	X	873	39.302	52.532	98.885	1.00	0.00	N
ATOM	10628	H	GLU	X	873	38.885	53.358	99.290	1.00	0.00	H
ATOM	10629	CA	GLU	X	873	38.950	52.219	97.479	1.00	0.00	C
ATOM	10630	HA	GLU	X	873	39.023	51.138	97.603	1.00	0.00	H
ATOM	10631	CB	GLU	X	873	37.552	52.727	97.057	1.00	0.00	C
ATOM	10632	HB2	GLU	X	873	37.490	53.816	97.098	1.00	0.00	H
ATOM	10633	HB3	GLU	X	873	37.431	52.557	95.987	1.00	0.00	H
ATOM	10634	CG	GLU	X	873	36.363	52.062	97.720	1.00	0.00	C
ATOM	10635	HG2	GLU	X	873	36.615	51.892	98.766	1.00	0.00	H
ATOM	10636	HG3	GLU	X	873	35.425	52.607	97.604	1.00	0.00	H
ATOM	10637	CD	GLU	X	873	36.146	50.627	97.133	1.00	0.00	C
ATOM	10638	OE1	GLU	X	873	36.758	50.171	96.122	1.00	0.00	O
ATOM	10639	OE2	GLU	X	873	35.531	49.766	97.759	1.00	0.00	O
ATOM	10640	C	GLU	X	873	40.128	52.565	96.555	1.00	0.00	C
ATOM	10641	O	GLU	X	873	40.318	51.887	95.564	1.00	0.00	O
ATOM	10642	N	GLY	X	874	41.070	53.435	97.011	1.00	0.00	N
ATOM	10643	H	GLY	X	874	40.997	53.811	97.946	1.00	0.00	H
ATOM	10644	CA	GLY	X	874	42.239	53.923	96.281	1.00	0.00	C
ATOM	10645	HA2	GLY	X	874	42.202	53.638	95.230	1.00	0.00	H
ATOM	10646	HA3	GLY	X	874	42.240	54.991	96.498	1.00	0.00	H
ATOM	10647	C	GLY	X	874	43.593	53.337	96.823	1.00	0.00	C
ATOM	10648	O	GLY	X	874	44.475	53.022	96.027	1.00	0.00	O
ATOM	10649	N	LEU	X	875	43.678	53.105	98.187	1.00	0.00	N
ATOM	10650	H	LEU	X	875	43.033	53.510	98.852	1.00	0.00	H
ATOM	10651	CA	LEU	X	875	44.795	52.324	98.840	1.00	0.00	C
ATOM	10652	HA	LEU	X	875	45.782	52.713	98.587	1.00	0.00	H
ATOM	10653	CB	LEU	X	875	44.649	52.450	100.332	1.00	0.00	C
ATOM	10654	HB2	LEU	X	875	44.337	53.475	100.533	1.00	0.00	H
ATOM	10655	HB3	LEU	X	875	43.796	51.850	100.649	1.00	0.00	H
ATOM	10656	CG	LEU	X	875	45.896	52.170	101.202	1.00	0.00	C
ATOM	10657	HG	LEU	X	875	46.234	51.138	101.099	1.00	0.00	H
ATOM	10658	CD1	LEU	X	875	47.108	53.016	100.981	1.00	0.00	C

ATOM	10659	HD11	LEU	X	875	47.916	52.847	101.693	1.00	0.00	H
ATOM	10660	HD12	LEU	X	875	47.473	52.837	99.969	1.00	0.00	H
ATOM	10661	HD13	LEU	X	875	46.864	54.076	101.049	1.00	0.00	H
ATOM	10662	CD2	LEU	X	875	45.388	52.244	102.641	1.00	0.00	C
ATOM	10663	HD21	LEU	X	875	45.024	53.243	102.877	1.00	0.00	H
ATOM	10664	HD22	LEU	X	875	44.563	51.555	102.817	1.00	0.00	H
ATOM	10665	HD23	LEU	X	875	46.163	51.992	103.366	1.00	0.00	H
ATOM	10666	C	LEU	X	875	44.915	50.848	98.343	1.00	0.00	C
ATOM	10667	O	LEU	X	875	45.910	50.155	98.590	1.00	0.00	O
ATOM	10668	N	ARG	X	876	43.763	50.360	97.793	1.00	0.00	N
ATOM	10669	H	ARG	X	876	42.912	50.903	97.831	1.00	0.00	H
ATOM	10670	CA	ARG	X	876	43.667	49.072	97.061	1.00	0.00	C
ATOM	10671	HA	ARG	X	876	44.199	48.369	97.702	1.00	0.00	H
ATOM	10672	CB	ARG	X	876	42.226	48.631	96.974	1.00	0.00	C
ATOM	10673	HB2	ARG	X	876	41.617	49.011	97.795	1.00	0.00	H
ATOM	10674	HB3	ARG	X	876	41.833	48.958	96.010	1.00	0.00	H
ATOM	10675	CG	ARG	X	876	42.237	47.092	97.072	1.00	0.00	C
ATOM	10676	HG2	ARG	X	876	42.989	46.634	96.430	1.00	0.00	H
ATOM	10677	HG3	ARG	X	876	42.384	46.782	98.108	1.00	0.00	H
ATOM	10678	CD	ARG	X	876	40.890	46.524	96.702	1.00	0.00	C
ATOM	10679	HD2	ARG	X	876	40.724	46.669	95.635	1.00	0.00	H
ATOM	10680	HD3	ARG	X	876	40.940	45.438	96.766	1.00	0.00	H
ATOM	10681	NE	ARG	X	876	39.722	47.031	97.428	1.00	0.00	N
ATOM	10682	HE	ARG	X	876	39.275	46.366	98.044	1.00	0.00	H
ATOM	10683	CZ	ARG	X	876	38.924	47.938	97.059	1.00	0.00	C
ATOM	10684	NH1	ARG	X	876	39.078	48.686	96.061	1.00	0.00	N
ATOM	10685	HH11	ARG	X	876	39.813	48.519	95.389	1.00	0.00	H
ATOM	10686	HH12	ARG	X	876	38.313	49.322	95.883	1.00	0.00	H
ATOM	10687	NH2	ARG	X	876	37.943	48.121	97.834	1.00	0.00	N
ATOM	10688	HH21	ARG	X	876	37.917	47.596	98.698	1.00	0.00	H
ATOM	10689	HH22	ARG	X	876	37.284	48.864	97.656	1.00	0.00	H
ATOM	10690	C	ARG	X	876	44.446	49.067	95.761	1.00	0.00	C
ATOM	10691	O	ARG	X	876	45.181	48.154	95.416	1.00	0.00	O
ATOM	10692	N	ASP	X	877	44.345	50.167	94.984	1.00	0.00	N
ATOM	10693	H	ASP	X	877	43.851	51.007	95.251	1.00	0.00	H
ATOM	10694	CA	ASP	X	877	45.040	50.205	93.705	1.00	0.00	C
ATOM	10695	HA	ASP	X	877	45.110	49.191	93.313	1.00	0.00	H
ATOM	10696	CB	ASP	X	877	44.234	50.921	92.613	1.00	0.00	C
ATOM	10697	HB2	ASP	X	877	43.867	51.908	92.894	1.00	0.00	H
ATOM	10698	HB3	ASP	X	877	44.817	51.000	91.695	1.00	0.00	H
ATOM	10699	CG	ASP	X	877	42.917	50.176	92.196	1.00	0.00	C
ATOM	10700	OD1	ASP	X	877	42.900	48.905	92.124	1.00	0.00	O
ATOM	10701	OD2	ASP	X	877	41.924	50.937	91.930	1.00	0.00	O
ATOM	10702	C	ASP	X	877	46.512	50.840	93.822	1.00	0.00	C
ATOM	10703	O	ASP	X	877	47.255	50.819	92.890	1.00	0.00	O
ATOM	10704	N	ASN	X	878	46.850	51.412	94.964	1.00	0.00	N
ATOM	10705	H	ASN	X	878	46.114	51.579	95.637	1.00	0.00	H
ATOM	10706	CA	ASN	X	878	48.133	51.849	95.392	1.00	0.00	C
ATOM	10707	HA	ASN	X	878	48.552	52.498	94.623	1.00	0.00	H
ATOM	10708	CB	ASN	X	878	48.046	52.542	96.730	1.00	0.00	C
ATOM	10709	HB2	ASN	X	878	47.391	53.402	96.596	1.00	0.00	H
ATOM	10710	HB3	ASN	X	878	47.753	51.863	97.532	1.00	0.00	H
ATOM	10711	CG	ASN	X	878	49.300	53.108	97.315	1.00	0.00	C
ATOM	10712	OD1	ASN	X	878	49.829	52.562	98.278	1.00	0.00	O
ATOM	10713	ND2	ASN	X	878	49.790	54.228	96.865	1.00	0.00	N
ATOM	10714	HD21	ASN	X	878	50.521	54.749	97.328	1.00	0.00	H
ATOM	10715	HD22	ASN	X	878	49.563	54.654	95.977	1.00	0.00	H
ATOM	10716	C	ASN	X	878	49.005	50.645	95.495	1.00	0.00	C
ATOM	10717	O	ASN	X	878	48.689	49.553	96.014	1.00	0.00	O
ATOM	10718	N	SER	X	879	50.331	50.865	95.232	1.00	0.00	N
ATOM	10719	H	SER	X	879	50.511	51.589	94.553	1.00	0.00	H
ATOM	10720	CA	SER	X	879	51.460	49.962	95.555	1.00	0.00	C
ATOM	10721	HA	SER	X	879	51.075	49.203	96.235	1.00	0.00	H
ATOM	10722	CB	SER	X	879	51.849	49.123	94.334	1.00	0.00	C
ATOM	10723	HB2	SER	X	879	52.582	48.348	94.554	1.00	0.00	H
ATOM	10724	HB3	SER	X	879	50.904	48.634	94.097	1.00	0.00	H
ATOM	10725	OG	SER	X	879	52.119	49.985	93.261	1.00	0.00	O
ATOM	10726	HG	SER	X	879	51.347	50.353	92.828	1.00	0.00	H
ATOM	10727	C	SER	X	879	52.736	50.599	96.229	1.00	0.00	C
ATOM	10728	O	SER	X	879	53.407	49.895	97.008	1.00	0.00	O
ATOM	10729	N	SER	X	880	52.965	51.881	96.040	1.00	0.00	N
ATOM	10730	H	SER	X	880	52.163	52.276	95.569	1.00	0.00	H
ATOM	10731	CA	SER	X	880	54.138	52.633	96.568	1.00	0.00	C
ATOM	10732	HA	SER	X	880	54.930	51.929	96.315	1.00	0.00	H
ATOM	10733	CB	SER	X	880	54.424	53.825	95.678	1.00	0.00	C
ATOM	10734	HB2	SER	X	880	55.259	54.439	96.016	1.00	0.00	H
ATOM	10735	HB3	SER	X	880	54.672	53.406	94.701	1.00	0.00	H
ATOM	10736	OG	SER	X	880	53.285	54.706	95.645	1.00	0.00	O
ATOM	10737	HG	SER	X	880	53.536	55.535	96.058	1.00	0.00	H
ATOM	10738	C	SER	X	880	54.157	52.946	98.065	1.00	0.00	C
ATOM	10739	O	SER	X	880	55.160	52.993	98.757	1.00	0.00	O
ATOM	10740	N	LEU	X	881	52.987	53.351	98.635	1.00	0.00	N

ATOM	10741	H	LEU	X	881	52.168	53.439	98.052	1.00	0.00	H
ATOM	10742	CA	LEU	X	881	52.897	53.827	100.007	1.00	0.00	C
ATOM	10743	HA	LEU	X	881	53.408	54.787	99.950	1.00	0.00	H
ATOM	10744	CB	LEU	X	881	51.441	54.118	100.337	1.00	0.00	C
ATOM	10745	HB2	LEU	X	881	50.992	54.577	99.457	1.00	0.00	H
ATOM	10746	HB3	LEU	X	881	50.780	53.268	100.511	1.00	0.00	H
ATOM	10747	CG	LEU	X	881	51.402	55.112	101.546	1.00	0.00	C
ATOM	10748	HG	LEU	X	881	52.231	54.886	102.218	1.00	0.00	H
ATOM	10749	CD1	LEU	X	881	51.567	56.572	101.089	1.00	0.00	C
ATOM	10750	HD11	LEU	X	881	52.424	56.576	100.416	1.00	0.00	H
ATOM	10751	HD12	LEU	X	881	50.625	56.774	100.579	1.00	0.00	H
ATOM	10752	HD13	LEU	X	881	51.772	57.186	101.966	1.00	0.00	H
ATOM	10753	CD2	LEU	X	881	50.155	54.899	102.386	1.00	0.00	C
ATOM	10754	HD21	LEU	X	881	49.315	54.862	101.692	1.00	0.00	H
ATOM	10755	HD22	LEU	X	881	50.174	53.955	102.930	1.00	0.00	H
ATOM	10756	HD23	LEU	X	881	50.041	55.667	103.153	1.00	0.00	H
ATOM	10757	C	LEU	X	881	53.629	52.940	101.029	1.00	0.00	C
ATOM	10758	O	LEU	X	881	53.454	51.746	101.062	1.00	0.00	O
ATOM	10759	N	GLN	X	882	54.422	53.586	101.946	1.00	0.00	N
ATOM	10760	H	GLN	X	882	54.466	54.594	101.930	1.00	0.00	H
ATOM	10761	CA	GLN	X	882	55.191	52.911	102.988	1.00	0.00	C
ATOM	10762	HA	GLN	X	882	55.095	51.838	102.819	1.00	0.00	H
ATOM	10763	CB	GLN	X	882	56.697	53.290	102.843	1.00	0.00	C
ATOM	10764	HB2	GLN	X	882	57.048	53.172	101.817	1.00	0.00	H
ATOM	10765	HB3	GLN	X	882	56.912	54.360	102.843	1.00	0.00	H
ATOM	10766	CG	GLN	X	882	57.662	52.541	103.827	1.00	0.00	C
ATOM	10767	HG2	GLN	X	882	57.490	52.996	104.803	1.00	0.00	H
ATOM	10768	HG3	GLN	X	882	57.399	51.488	103.919	1.00	0.00	H
ATOM	10769	CD	GLN	X	882	59.145	52.753	103.533	1.00	0.00	C
ATOM	10770	OE1	GLN	X	882	59.606	53.178	102.466	1.00	0.00	O
ATOM	10771	NE2	GLN	X	882	59.974	52.390	104.452	1.00	0.00	N
ATOM	10772	HE21	GLN	X	882	60.976	52.402	104.321	1.00	0.00	H
ATOM	10773	HE22	GLN	X	882	59.561	52.168	105.346	1.00	0.00	H
ATOM	10774	C	GLN	X	882	54.666	53.176	104.381	1.00	0.00	C
ATOM	10775	O	GLN	X	882	54.826	52.376	105.297	1.00	0.00	O
ATOM	10776	N	PHE	X	883	54.272	54.407	104.611	1.00	0.00	N
ATOM	10777	H	PHE	X	883	54.414	55.156	103.947	1.00	0.00	H
ATOM	10778	CA	PHE	X	883	53.935	54.896	105.922	1.00	0.00	C
ATOM	10779	HA	PHE	X	883	53.852	54.036	106.587	1.00	0.00	H
ATOM	10780	CB	PHE	X	883	54.918	55.962	106.330	1.00	0.00	C
ATOM	10781	HB2	PHE	X	883	54.719	56.899	105.809	1.00	0.00	H
ATOM	10782	HB3	PHE	X	883	54.739	56.141	107.390	1.00	0.00	H
ATOM	10783	CG	PHE	X	883	56.411	55.688	106.110	1.00	0.00	C
ATOM	10784	CD1	PHE	X	883	56.986	56.316	104.970	1.00	0.00	C
ATOM	10785	HD1	PHE	X	883	56.421	56.848	104.220	1.00	0.00	H
ATOM	10786	CE1	PHE	X	883	58.308	56.116	104.622	1.00	0.00	C
ATOM	10787	HE1	PHE	X	883	58.730	56.647	103.782	1.00	0.00	H
ATOM	10788	CZ	PHE	X	883	59.137	55.397	105.560	1.00	0.00	C
ATOM	10789	HZ	PHE	X	883	60.179	55.355	105.278	1.00	0.00	H
ATOM	10790	CE2	PHE	X	883	58.609	54.776	106.734	1.00	0.00	C
ATOM	10791	HE2	PHE	X	883	59.308	54.311	107.412	1.00	0.00	H
ATOM	10792	CD2	PHE	X	883	57.222	54.961	107.020	1.00	0.00	C
ATOM	10793	HD2	PHE	X	883	56.800	54.631	107.957	1.00	0.00	H
ATOM	10794	C	PHE	X	883	52.571	55.606	105.861	1.00	0.00	C
ATOM	10795	O	PHE	X	883	52.411	56.407	104.888	1.00	0.00	O
ATOM	10796	N	LEU	X	884	51.649	55.390	106.794	1.00	0.00	N
ATOM	10797	H	LEU	X	884	51.823	54.627	107.431	1.00	0.00	H
ATOM	10798	CA	LEU	X	884	50.314	56.074	106.772	1.00	0.00	C
ATOM	10799	HA	LEU	X	884	50.387	57.012	106.223	1.00	0.00	H
ATOM	10800	CB	LEU	X	884	49.395	55.002	106.117	1.00	0.00	C
ATOM	10801	HB2	LEU	X	884	49.754	54.655	105.147	1.00	0.00	H
ATOM	10802	HB3	LEU	X	884	49.554	54.121	106.738	1.00	0.00	H
ATOM	10803	CG	LEU	X	884	47.908	55.410	105.989	1.00	0.00	C
ATOM	10804	HG	LEU	X	884	47.448	55.549	106.967	1.00	0.00	H
ATOM	10805	CD1	LEU	X	884	47.645	56.715	105.230	1.00	0.00	C
ATOM	10806	HD11	LEU	X	884	46.587	56.968	105.173	1.00	0.00	H
ATOM	10807	HD12	LEU	X	884	48.179	57.501	105.764	1.00	0.00	H
ATOM	10808	HD13	LEU	X	884	48.090	56.596	104.243	1.00	0.00	H
ATOM	10809	CD2	LEU	X	884	47.200	54.221	105.299	1.00	0.00	C
ATOM	10810	HD21	LEU	X	884	47.751	53.955	104.396	1.00	0.00	H
ATOM	10811	HD22	LEU	X	884	47.154	53.331	105.926	1.00	0.00	H
ATOM	10812	HD23	LEU	X	884	46.151	54.413	105.076	1.00	0.00	H
ATOM	10813	C	LEU	X	884	49.771	56.309	108.217	1.00	0.00	C
ATOM	10814	O	LEU	X	884	49.837	55.452	109.084	1.00	0.00	O
ATOM	10815	N	GLY	X	885	49.322	57.563	108.537	1.00	0.00	N
ATOM	10816	H	GLY	X	885	49.340	58.304	107.851	1.00	0.00	H
ATOM	10817	CA	GLY	X	885	48.807	57.851	109.905	1.00	0.00	C
ATOM	10818	HA2	GLY	X	885	48.639	56.859	110.322	1.00	0.00	H
ATOM	10819	HA3	GLY	X	885	49.598	58.359	110.456	1.00	0.00	H
ATOM	10820	C	GLY	X	885	47.600	58.677	109.874	1.00	0.00	C
ATOM	10821	O	GLY	X	885	47.543	59.719	109.298	1.00	0.00	O
ATOM	10822	N	PHE	X	886	46.586	58.289	110.638	1.00	0.00	N

ATOM	10823	H	PHE	X	886	46.691	57.414	111.133	1.00	0.00	H
ATOM	10824	CA	PHE	X	886	45.531	59.188	111.072	1.00	0.00	C
ATOM	10825	HA	PHE	X	886	45.427	60.142	110.555	1.00	0.00	H
ATOM	10826	CB	PHE	X	886	44.180	58.477	110.973	1.00	0.00	C
ATOM	10827	HB2	PHE	X	886	44.230	57.467	111.382	1.00	0.00	H
ATOM	10828	HB3	PHE	X	886	43.371	58.986	111.498	1.00	0.00	H
ATOM	10829	CG	PHE	X	886	43.684	58.322	109.573	1.00	0.00	C
ATOM	10830	CD1	PHE	X	886	42.892	59.348	109.011	1.00	0.00	C
ATOM	10831	HD1	PHE	X	886	42.728	60.256	109.570	1.00	0.00	H
ATOM	10832	CE1	PHE	X	886	42.526	59.270	107.640	1.00	0.00	C
ATOM	10833	HE1	PHE	X	886	41.933	60.043	107.172	1.00	0.00	H
ATOM	10834	CZ	PHE	X	886	42.673	58.010	106.897	1.00	0.00	C
ATOM	10835	HZ	PHE	X	886	42.290	57.874	105.896	1.00	0.00	H
ATOM	10836	CE2	PHE	X	886	43.426	57.015	107.583	1.00	0.00	C
ATOM	10837	HE2	PHE	X	886	43.603	56.100	107.037	1.00	0.00	H
ATOM	10838	CD2	PHE	X	886	43.963	57.229	108.861	1.00	0.00	C
ATOM	10839	HD2	PHE	X	886	44.586	56.457	109.289	1.00	0.00	H
ATOM	10840	C	PHE	X	886	45.760	59.547	112.562	1.00	0.00	C
ATOM	10841	O	PHE	X	886	46.336	58.739	113.330	1.00	0.00	O
ATOM	10842	N	TRP	X	887	45.235	60.666	112.975	1.00	0.00	N
ATOM	10843	H	TRP	X	887	44.791	61.241	112.272	1.00	0.00	H
ATOM	10844	CA	TRP	X	887	45.228	61.233	114.401	1.00	0.00	C
ATOM	10845	HA	TRP	X	887	45.487	60.409	115.068	1.00	0.00	H
ATOM	10846	CB	TRP	X	887	46.358	62.204	114.539	1.00	0.00	C
ATOM	10847	HB2	TRP	X	887	47.333	61.719	114.491	1.00	0.00	H
ATOM	10848	HB3	TRP	X	887	46.347	63.063	113.868	1.00	0.00	H
ATOM	10849	CG	TRP	X	887	46.454	62.832	115.937	1.00	0.00	C
ATOM	10850	CD1	TRP	X	887	45.774	63.956	116.354	1.00	0.00	C
ATOM	10851	HD1	TRP	X	887	45.095	64.594	115.807	1.00	0.00	H
ATOM	10852	NE1	TRP	X	887	46.196	64.258	117.630	1.00	0.00	N
ATOM	10853	HE1	TRP	X	887	45.745	64.985	118.166	1.00	0.00	H
ATOM	10854	CE2	TRP	X	887	47.096	63.332	118.108	1.00	0.00	C
ATOM	10855	CZ2	TRP	X	887	47.781	63.142	119.313	1.00	0.00	C
ATOM	10856	HZ2	TRP	X	887	47.606	63.833	120.126	1.00	0.00	H
ATOM	10857	CH2	TRP	X	887	48.610	62.040	119.387	1.00	0.00	C
ATOM	10858	HH2	TRP	X	887	49.051	61.900	120.363	1.00	0.00	H
ATOM	10859	CZ3	TRP	X	887	48.762	61.147	118.373	1.00	0.00	C
ATOM	10860	HZ3	TRP	X	887	49.363	60.272	118.571	1.00	0.00	H
ATOM	10861	CE3	TRP	X	887	48.055	61.337	117.203	1.00	0.00	C
ATOM	10862	HE3	TRP	X	887	48.122	60.597	116.420	1.00	0.00	H
ATOM	10863	CD2	TRP	X	887	47.259	62.422	117.027	1.00	0.00	C
ATOM	10864	C	TRP	X	887	43.885	61.915	114.938	1.00	0.00	C
ATOM	10865	O	TRP	X	887	43.556	63.020	114.523	1.00	0.00	O
ATOM	10866	N	GLY	X	888	43.122	61.181	115.774	1.00	0.00	N
ATOM	10867	H	GLY	X	888	43.437	60.316	116.188	1.00	0.00	H
ATOM	10868	CA	GLY	X	888	41.882	61.721	116.344	1.00	0.00	C
ATOM	10869	HA2	GLY	X	888	41.352	60.880	116.791	1.00	0.00	H
ATOM	10870	HA3	GLY	X	888	42.192	62.506	117.033	1.00	0.00	H
ATOM	10871	C	GLY	X	888	40.812	62.115	115.303	1.00	0.00	C
ATOM	10872	O	GLY	X	888	40.006	62.984	115.513	1.00	0.00	O
ATOM	10873	N	ASN	X	889	40.807	61.441	114.163	1.00	0.00	N
ATOM	10874	H	ASN	X	889	41.574	60.802	114.011	1.00	0.00	H
ATOM	10875	CA	ASN	X	889	39.885	61.579	113.066	1.00	0.00	C
ATOM	10876	HA	ASN	X	889	39.356	62.521	113.214	1.00	0.00	H
ATOM	10877	CB	ASN	X	889	40.478	61.679	111.686	1.00	0.00	C
ATOM	10878	HB2	ASN	X	889	40.502	60.692	111.225	1.00	0.00	H
ATOM	10879	HB3	ASN	X	889	39.794	62.215	111.027	1.00	0.00	H
ATOM	10880	CG	ASN	X	889	41.817	62.312	111.455	1.00	0.00	C
ATOM	10881	OD1	ASN	X	889	42.823	61.643	111.610	1.00	0.00	O
ATOM	10882	ND2	ASN	X	889	41.952	63.541	110.923	1.00	0.00	N
ATOM	10883	HD21	ASN	X	889	42.885	63.768	110.609	1.00	0.00	H
ATOM	10884	HD22	ASN	X	889	41.112	64.080	110.773	1.00	0.00	H
ATOM	10885	C	ASN	X	889	38.929	60.352	113.127	1.00	0.00	C
ATOM	10886	O	ASN	X	889	39.327	59.182	113.366	1.00	0.00	O
ATOM	10887	N	LYS	X	890	37.589	60.625	113.174	1.00	0.00	N
ATOM	10888	H	LYS	X	890	37.306	61.565	112.932	1.00	0.00	H
ATOM	10889	CA	LYS	X	890	36.593	59.621	113.681	1.00	0.00	C
ATOM	10890	HA	LYS	X	890	36.973	59.098	114.558	1.00	0.00	H
ATOM	10891	CB	LYS	X	890	35.383	60.388	114.204	1.00	0.00	C
ATOM	10892	HB2	LYS	X	890	35.046	60.930	113.320	1.00	0.00	H
ATOM	10893	HB3	LYS	X	890	34.629	59.671	114.527	1.00	0.00	H
ATOM	10894	CG	LYS	X	890	35.641	61.359	115.389	1.00	0.00	C
ATOM	10895	HG2	LYS	X	890	35.920	60.698	116.209	1.00	0.00	H
ATOM	10896	HG3	LYS	X	890	36.555	61.900	115.147	1.00	0.00	H
ATOM	10897	CD	LYS	X	890	34.450	62.332	115.637	1.00	0.00	C
ATOM	10898	HD2	LYS	X	890	34.728	63.027	116.430	1.00	0.00	H
ATOM	10899	HD3	LYS	X	890	34.257	62.872	114.709	1.00	0.00	H
ATOM	10900	CE	LYS	X	890	33.183	61.553	116.012	1.00	0.00	C
ATOM	10901	HE2	LYS	X	890	32.935	60.751	115.317	1.00	0.00	H
ATOM	10902	HE3	LYS	X	890	33.293	61.267	117.058	1.00	0.00	H
ATOM	10903	NZ	LYS	X	890	31.953	62.431	116.060	1.00	0.00	N
ATOM	10904	HZ1	LYS	X	890	31.784	62.823	115.145	1.00	0.00	H

ATOM	10905	HZ2	LYS	X	890	31.145	61.849	116.232	1.00	0.00	H
ATOM	10906	HZ3	LYS	X	890	31.973	63.086	116.828	1.00	0.00	H
ATOM	10907	C	LYS	X	890	36.227	58.548	112.631	1.00	0.00	C
ATOM	10908	O	LYS	X	890	35.016	58.221	112.454	1.00	0.00	O
ATOM	10909	N	VAL	X	891	37.248	58.075	111.906	1.00	0.00	N
ATOM	10910	H	VAL	X	891	38.169	58.449	112.081	1.00	0.00	H
ATOM	10911	CA	VAL	X	891	37.182	57.011	110.882	1.00	0.00	C
ATOM	10912	HA	VAL	X	891	36.669	57.352	109.982	1.00	0.00	H
ATOM	10913	CB	VAL	X	891	38.504	56.652	110.203	1.00	0.00	C
ATOM	10914	HB	VAL	X	891	38.441	56.003	109.330	1.00	0.00	H
ATOM	10915	CG1	VAL	X	891	39.161	57.908	109.762	1.00	0.00	C
ATOM	10916	HG11	VAL	X	891	39.852	58.372	110.465	1.00	0.00	H
ATOM	10917	HG12	VAL	X	891	39.683	57.827	108.809	1.00	0.00	H
ATOM	10918	HG13	VAL	X	891	38.426	58.686	109.556	1.00	0.00	H
ATOM	10919	CG2	VAL	X	891	39.622	55.918	111.035	1.00	0.00	C
ATOM	10920	HG21	VAL	X	891	39.272	54.940	111.367	1.00	0.00	H
ATOM	10921	HG22	VAL	X	891	40.630	55.859	110.625	1.00	0.00	H
ATOM	10922	HG23	VAL	X	891	39.717	56.609	111.873	1.00	0.00	H
ATOM	10923	C	VAL	X	891	36.441	55.755	111.302	1.00	0.00	C
ATOM	10924	O	VAL	X	891	35.778	55.121	110.492	1.00	0.00	O
ATOM	10925	N	GLY	X	892	36.475	55.451	112.604	1.00	0.00	N
ATOM	10926	H	GLY	X	892	37.081	56.061	113.132	1.00	0.00	H
ATOM	10927	CA	GLY	X	892	35.622	54.441	113.201	1.00	0.00	C
ATOM	10928	HA2	GLY	X	892	35.819	54.569	114.267	1.00	0.00	H
ATOM	10929	HA3	GLY	X	892	34.571	54.693	113.056	1.00	0.00	H
ATOM	10930	C	GLY	X	892	35.963	53.039	112.832	1.00	0.00	C
ATOM	10931	O	GLY	X	892	36.851	52.704	112.046	1.00	0.00	O
ATOM	10932	N	ASP	X	893	35.202	52.041	113.339	1.00	0.00	N
ATOM	10933	H	ASP	X	893	34.405	52.346	113.877	1.00	0.00	H
ATOM	10934	CA	ASP	X	893	35.326	50.627	113.072	1.00	0.00	C
ATOM	10935	HA	ASP	X	893	36.360	50.394	113.328	1.00	0.00	H
ATOM	10936	CB	ASP	X	893	34.500	49.810	114.047	1.00	0.00	C
ATOM	10937	HB2	ASP	X	893	33.497	50.234	113.975	1.00	0.00	H
ATOM	10938	HB3	ASP	X	893	34.370	48.801	113.656	1.00	0.00	H
ATOM	10939	CG	ASP	X	893	34.771	49.773	115.458	1.00	0.00	C
ATOM	10940	OD1	ASP	X	893	35.313	48.746	115.898	1.00	0.00	O
ATOM	10941	OD2	ASP	X	893	34.366	50.685	116.206	1.00	0.00	O
ATOM	10942	C	ASP	X	893	34.937	50.201	111.640	1.00	0.00	C
ATOM	10943	O	ASP	X	893	35.543	49.251	111.082	1.00	0.00	O
ATOM	10944	N	LYS	X	894	34.184	50.978	110.936	1.00	0.00	N
ATOM	10945	H	LYS	X	894	33.762	51.792	111.362	1.00	0.00	H
ATOM	10946	CA	LYS	X	894	33.938	50.853	109.481	1.00	0.00	C
ATOM	10947	HA	LYS	X	894	33.651	49.847	109.173	1.00	0.00	H
ATOM	10948	CB	LYS	X	894	32.688	51.647	109.143	1.00	0.00	C
ATOM	10949	HB2	LYS	X	894	31.921	51.250	109.808	1.00	0.00	H
ATOM	10950	HB3	LYS	X	894	32.899	52.699	109.341	1.00	0.00	H
ATOM	10951	CG	LYS	X	894	32.138	51.469	107.697	1.00	0.00	C
ATOM	10952	HG2	LYS	X	894	32.805	52.005	107.021	1.00	0.00	H
ATOM	10953	HG3	LYS	X	894	32.067	50.405	107.475	1.00	0.00	H
ATOM	10954	CD	LYS	X	894	30.781	52.217	107.582	1.00	0.00	C
ATOM	10955	HD2	LYS	X	894	30.189	52.026	108.477	1.00	0.00	H
ATOM	10956	HD3	LYS	X	894	30.959	53.278	107.401	1.00	0.00	H
ATOM	10957	CE	LYS	X	894	29.767	51.757	106.494	1.00	0.00	C
ATOM	10958	HE2	LYS	X	894	29.421	50.724	106.525	1.00	0.00	H
ATOM	10959	HE3	LYS	X	894	28.935	52.451	106.611	1.00	0.00	H
ATOM	10960	NZ	LYS	X	894	30.216	52.054	105.152	1.00	0.00	N
ATOM	10961	HZ1	LYS	X	894	31.115	51.658	104.915	1.00	0.00	H
ATOM	10962	HZ2	LYS	X	894	29.572	51.749	104.437	1.00	0.00	H
ATOM	10963	HZ3	LYS	X	894	30.320	53.057	105.090	1.00	0.00	H
ATOM	10964	C	LYS	X	894	35.123	51.250	108.656	1.00	0.00	C
ATOM	10965	O	LYS	X	894	35.531	50.490	107.802	1.00	0.00	O
ATOM	10966	N	GLY	X	895	35.821	52.279	109.108	1.00	0.00	N
ATOM	10967	H	GLY	X	895	35.442	52.877	109.828	1.00	0.00	H
ATOM	10968	CA	GLY	X	895	37.062	52.709	108.430	1.00	0.00	C
ATOM	10969	HA2	GLY	X	895	36.875	52.864	107.367	1.00	0.00	H
ATOM	10970	HA3	GLY	X	895	37.340	53.694	108.806	1.00	0.00	H
ATOM	10971	C	GLY	X	895	38.241	51.771	108.683	1.00	0.00	C
ATOM	10972	O	GLY	X	895	39.116	51.542	107.829	1.00	0.00	O
ATOM	10973	N	ALA	X	896	38.317	51.130	109.877	1.00	0.00	N
ATOM	10974	H	ALA	X	896	37.654	51.399	110.590	1.00	0.00	H
ATOM	10975	CA	ALA	X	896	39.343	50.155	110.268	1.00	0.00	C
ATOM	10976	HA	ALA	X	896	40.375	50.389	110.009	1.00	0.00	H
ATOM	10977	CB	ALA	X	896	39.176	49.873	111.750	1.00	0.00	C
ATOM	10978	HB1	ALA	X	896	39.958	49.182	112.066	1.00	0.00	H
ATOM	10979	HB2	ALA	X	896	39.232	50.844	112.239	1.00	0.00	H
ATOM	10980	HB3	ALA	X	896	38.221	49.374	111.914	1.00	0.00	H
ATOM	10981	C	ALA	X	896	39.110	48.939	109.368	1.00	0.00	C
ATOM	10982	O	ALA	X	896	40.094	48.411	108.842	1.00	0.00	O
ATOM	10983	N	GLN	X	897	37.874	48.493	109.222	1.00	0.00	N
ATOM	10984	H	GLN	X	897	37.234	48.966	109.844	1.00	0.00	H
ATOM	10985	CA	GLN	X	897	37.448	47.396	108.287	1.00	0.00	C
ATOM	10986	HA	GLN	X	897	38.096	46.522	108.324	1.00	0.00	H

ATOM	10987	CB	GLN	X	897	35.948	47.141	108.595	1.00	0.00	C
ATOM	10988	HB2	GLN	X	897	35.880	46.904	109.657	1.00	0.00	H
ATOM	10989	HB3	GLN	X	897	35.399	48.060	108.390	1.00	0.00	H
ATOM	10990	CG	GLN	X	897	35.126	46.122	107.762	1.00	0.00	C
ATOM	10991	HG2	GLN	X	897	35.251	46.346	106.703	1.00	0.00	H
ATOM	10992	HG3	GLN	X	897	35.454	45.091	107.900	1.00	0.00	H
ATOM	10993	CD	GLN	X	897	33.636	46.119	108.182	1.00	0.00	C
ATOM	10994	OE1	GLN	X	897	32.902	47.038	107.860	1.00	0.00	O
ATOM	10995	NE2	GLN	X	897	33.136	45.161	108.910	1.00	0.00	N
ATOM	10996	HE21	GLN	X	897	32.211	45.190	109.315	1.00	0.00	H
ATOM	10997	HE22	GLN	X	897	33.609	44.313	109.189	1.00	0.00	H
ATOM	10998	C	GLN	X	897	37.613	47.736	106.820	1.00	0.00	C
ATOM	10999	O	GLN	X	897	37.819	46.820	106.053	1.00	0.00	O
ATOM	11000	N	ALA	X	898	37.533	48.977	106.392	1.00	0.00	N
ATOM	11001	H	ALA	X	898	37.273	49.692	107.057	1.00	0.00	H
ATOM	11002	CA	ALA	X	898	37.763	49.370	105.003	1.00	0.00	C
ATOM	11003	HA	ALA	X	898	37.198	48.805	104.262	1.00	0.00	H
ATOM	11004	CB	ALA	X	898	37.242	50.838	104.802	1.00	0.00	C
ATOM	11005	HB1	ALA	X	898	37.345	51.180	103.772	1.00	0.00	H
ATOM	11006	HB2	ALA	X	898	36.183	50.862	105.060	1.00	0.00	H
ATOM	11007	HB3	ALA	X	898	37.751	51.523	105.481	1.00	0.00	H
ATOM	11008	C	ALA	X	898	39.341	49.273	104.715	1.00	0.00	C
ATOM	11009	O	ALA	X	898	39.732	48.662	103.742	1.00	0.00	O
ATOM	11010	N	LEU	X	899	40.181	49.834	105.570	1.00	0.00	N
ATOM	11011	H	LEU	X	899	39.695	50.229	106.362	1.00	0.00	H
ATOM	11012	CA	LEU	X	899	41.642	49.608	105.626	1.00	0.00	C
ATOM	11013	HA	LEU	X	899	42.035	50.012	104.693	1.00	0.00	H
ATOM	11014	CB	LEU	X	899	42.230	50.495	106.815	1.00	0.00	C
ATOM	11015	HB2	LEU	X	899	41.850	50.268	107.810	1.00	0.00	H
ATOM	11016	HB3	LEU	X	899	43.280	50.208	106.884	1.00	0.00	H
ATOM	11017	CG	LEU	X	899	42.243	52.008	106.498	1.00	0.00	C
ATOM	11018	HG	LEU	X	899	41.234	52.290	106.201	1.00	0.00	H
ATOM	11019	CD1	LEU	X	899	42.616	52.775	107.758	1.00	0.00	C
ATOM	11020	HD11	LEU	X	899	42.596	53.834	107.505	1.00	0.00	H
ATOM	11021	HD12	LEU	X	899	41.954	52.369	108.523	1.00	0.00	H
ATOM	11022	HD13	LEU	X	899	43.600	52.379	108.014	1.00	0.00	H
ATOM	11023	CD2	LEU	X	899	43.192	52.437	105.431	1.00	0.00	C
ATOM	11024	HD21	LEU	X	899	42.954	51.883	104.524	1.00	0.00	H
ATOM	11025	HD22	LEU	X	899	43.113	53.523	105.371	1.00	0.00	H
ATOM	11026	HD23	LEU	X	899	44.209	52.139	105.688	1.00	0.00	H
ATOM	11027	C	LEU	X	899	42.019	48.118	105.648	1.00	0.00	C
ATOM	11028	O	LEU	X	899	42.797	47.588	104.863	1.00	0.00	O
ATOM	11029	N	ALA	X	900	41.415	47.290	106.527	1.00	0.00	N
ATOM	11030	H	ALA	X	900	40.824	47.688	107.243	1.00	0.00	H
ATOM	11031	CA	ALA	X	900	41.605	45.850	106.592	1.00	0.00	C
ATOM	11032	HA	ALA	X	900	42.654	45.610	106.765	1.00	0.00	H
ATOM	11033	CB	ALA	X	900	40.718	45.321	107.720	1.00	0.00	C
ATOM	11034	HB1	ALA	X	900	39.643	45.434	107.574	1.00	0.00	H
ATOM	11035	HB2	ALA	X	900	40.791	44.233	107.676	1.00	0.00	H
ATOM	11036	HB3	ALA	X	900	40.986	45.752	108.685	1.00	0.00	H
ATOM	11037	C	ALA	X	900	41.124	45.125	105.306	1.00	0.00	C
ATOM	11038	O	ALA	X	900	41.542	43.969	105.139	1.00	0.00	O
ATOM	11039	N	GLU	X	901	40.370	45.749	104.346	1.00	0.00	N
ATOM	11040	H	GLU	X	901	39.905	46.603	104.621	1.00	0.00	H
ATOM	11041	CA	GLU	X	901	40.096	45.164	103.015	1.00	0.00	C
ATOM	11042	HA	GLU	X	901	40.066	44.074	103.040	1.00	0.00	H
ATOM	11043	CB	GLU	X	901	38.630	45.601	102.618	1.00	0.00	C
ATOM	11044	HB2	GLU	X	901	38.102	45.259	103.510	1.00	0.00	H
ATOM	11045	HB3	GLU	X	901	38.601	46.688	102.553	1.00	0.00	H
ATOM	11046	CG	GLU	X	901	38.123	44.765	101.389	1.00	0.00	C
ATOM	11047	HG2	GLU	X	901	38.851	43.992	101.143	1.00	0.00	H
ATOM	11048	HG3	GLU	X	901	37.259	44.189	101.725	1.00	0.00	H
ATOM	11049	CD	GLU	X	901	37.824	45.689	100.176	1.00	0.00	C
ATOM	11050	OE1	GLU	X	901	38.129	45.262	99.007	1.00	0.00	O
ATOM	11051	OE2	GLU	X	901	37.405	46.875	100.335	1.00	0.00	O
ATOM	11052	C	GLU	X	901	41.111	45.631	101.960	1.00	0.00	C
ATOM	11053	O	GLU	X	901	41.396	44.920	100.956	1.00	0.00	O
ATOM	11054	N	ALA	X	902	41.620	46.780	102.235	1.00	0.00	N
ATOM	11055	H	ALA	X	902	41.424	47.151	103.153	1.00	0.00	H
ATOM	11056	CA	ALA	X	902	42.530	47.526	101.447	1.00	0.00	C
ATOM	11057	HA	ALA	X	902	42.186	47.351	100.428	1.00	0.00	H
ATOM	11058	CB	ALA	X	902	42.384	48.960	101.892	1.00	0.00	C
ATOM	11059	HB1	ALA	X	902	42.857	49.231	102.835	1.00	0.00	H
ATOM	11060	HB2	ALA	X	902	42.793	49.660	101.163	1.00	0.00	H
ATOM	11061	HB3	ALA	X	902	41.305	49.075	101.997	1.00	0.00	H
ATOM	11062	C	ALA	X	902	44.008	47.096	101.499	1.00	0.00	C
ATOM	11063	O	ALA	X	902	44.822	47.392	100.610	1.00	0.00	O
ATOM	11064	N	LEU	X	903	44.344	46.462	102.624	1.00	0.00	N
ATOM	11065	H	LEU	X	903	43.684	46.620	103.373	1.00	0.00	H
ATOM	11066	CA	LEU	X	903	45.700	46.121	103.010	1.00	0.00	C
ATOM	11067	HA	LEU	X	903	46.427	46.446	102.265	1.00	0.00	H
ATOM	11068	CB	LEU	X	903	45.951	46.890	104.372	1.00	0.00	C

ATOM	11069	HB2	LEU	X	903	45.166	46.632	105.082	1.00	0.00	H
ATOM	11070	HB3	LEU	X	903	46.827	46.550	104.926	1.00	0.00	H
ATOM	11071	CG	LEU	X	903	45.888	48.436	104.216	1.00	0.00	C
ATOM	11072	HG	LEU	X	903	44.873	48.602	103.855	1.00	0.00	H
ATOM	11073	CD1	LEU	X	903	46.029	49.108	105.605	1.00	0.00	C
ATOM	11074	HD11	LEU	X	903	45.910	50.169	105.381	1.00	0.00	H
ATOM	11075	HD12	LEU	X	903	45.214	48.832	106.274	1.00	0.00	H
ATOM	11076	HD13	LEU	X	903	46.973	48.780	106.040	1.00	0.00	H
ATOM	11077	CD2	LEU	X	903	47.082	49.040	103.406	1.00	0.00	C
ATOM	11078	HD21	LEU	X	903	47.075	50.123	103.288	1.00	0.00	H
ATOM	11079	HD22	LEU	X	903	48.053	48.810	103.846	1.00	0.00	H
ATOM	11080	HD23	LEU	X	903	46.889	48.571	102.441	1.00	0.00	H
ATOM	11081	C	LEU	X	903	45.877	44.636	103.188	1.00	0.00	C
ATOM	11082	O	LEU	X	903	46.881	44.175	103.639	1.00	0.00	O
ATOM	11083	N	SER	X	904	44.973	43.754	102.845	1.00	0.00	N
ATOM	11084	H	SER	X	904	44.175	44.104	102.336	1.00	0.00	H
ATOM	11085	CA	SER	X	904	45.084	42.261	102.937	1.00	0.00	C
ATOM	11086	HA	SER	X	904	45.372	42.053	103.968	1.00	0.00	H
ATOM	11087	CB	SER	X	904	43.823	41.562	102.364	1.00	0.00	C
ATOM	11088	HB2	SER	X	904	42.912	41.928	102.840	1.00	0.00	H
ATOM	11089	HB3	SER	X	904	43.811	41.745	101.290	1.00	0.00	H
ATOM	11090	OG	SER	X	904	43.865	40.162	102.624	1.00	0.00	O
ATOM	11091	HG	SER	X	904	43.690	40.052	103.561	1.00	0.00	H
ATOM	11092	C	SER	X	904	46.338	41.764	102.137	1.00	0.00	C
ATOM	11093	O	SER	X	904	47.151	40.908	102.458	1.00	0.00	O
ATOM	11094	N	ASP	X	905	46.440	42.448	101.002	1.00	0.00	N
ATOM	11095	H	ASP	X	905	45.800	43.190	100.755	1.00	0.00	H
ATOM	11096	CA	ASP	X	905	47.409	42.260	99.898	1.00	0.00	C
ATOM	11097	HA	ASP	X	905	47.930	41.311	100.020	1.00	0.00	H
ATOM	11098	CB	ASP	X	905	46.623	42.224	98.531	1.00	0.00	C
ATOM	11099	HB2	ASP	X	905	46.259	43.218	98.272	1.00	0.00	H
ATOM	11100	HB3	ASP	X	905	47.312	41.931	97.739	1.00	0.00	H
ATOM	11101	CG	ASP	X	905	45.430	41.242	98.602	1.00	0.00	C
ATOM	11102	OD1	ASP	X	905	44.286	41.766	98.653	1.00	0.00	O
ATOM	11103	OD2	ASP	X	905	45.658	40.043	98.700	1.00	0.00	O
ATOM	11104	C	ASP	X	905	48.549	43.273	99.928	1.00	0.00	C
ATOM	11105	O	ASP	X	905	49.479	43.227	99.168	1.00	0.00	O
ATOM	11106	N	HIE	X	906	48.585	44.267	100.830	1.00	0.00	N
ATOM	11107	H	HIE	X	906	47.944	44.168	101.603	1.00	0.00	H
ATOM	11108	CA	HIE	X	906	49.546	45.349	100.764	1.00	0.00	C
ATOM	11109	HA	HIE	X	906	49.648	45.676	99.728	1.00	0.00	H
ATOM	11110	CB	HIE	X	906	49.051	46.704	101.386	1.00	0.00	C
ATOM	11111	HB2	HIE	X	906	47.986	46.810	101.179	1.00	0.00	H
ATOM	11112	HB3	HIE	X	906	49.230	46.718	102.461	1.00	0.00	H
ATOM	11113	CG	HIE	X	906	49.663	47.971	100.800	1.00	0.00	C
ATOM	11114	ND1	HIE	X	906	51.041	48.125	100.701	1.00	0.00	N
ATOM	11115	CE1	HIE	X	906	51.250	49.239	100.062	1.00	0.00	C
ATOM	11116	HE1	HIE	X	906	52.197	49.719	99.865	1.00	0.00	H
ATOM	11117	NE2	HIE	X	906	50.116	49.797	99.726	1.00	0.00	N
ATOM	11118	HE2	HIE	X	906	50.051	50.715	99.311	1.00	0.00	H
ATOM	11119	CD2	HIE	X	906	49.076	49.017	100.207	1.00	0.00	C
ATOM	11120	HD2	HIE	X	906	48.030	49.191	100.001	1.00	0.00	H
ATOM	11121	C	HIE	X	906	51.016	44.896	101.046	1.00	0.00	C
ATOM	11122	O	HIE	X	906	51.407	44.466	102.116	1.00	0.00	O
ATOM	11123	N	GLN	X	907	51.893	45.031	100.065	1.00	0.00	N
ATOM	11124	H	GLN	X	907	51.656	45.376	99.145	1.00	0.00	H
ATOM	11125	CA	GLN	X	907	53.261	44.602	100.138	1.00	0.00	C
ATOM	11126	HA	GLN	X	907	53.321	43.744	100.807	1.00	0.00	H
ATOM	11127	CB	GLN	X	907	53.705	44.199	98.750	1.00	0.00	C
ATOM	11128	HB2	GLN	X	907	53.827	45.122	98.182	1.00	0.00	H
ATOM	11129	HB3	GLN	X	907	54.738	43.850	98.768	1.00	0.00	H
ATOM	11130	CG	GLN	X	907	52.872	43.181	97.964	1.00	0.00	C
ATOM	11131	HG2	GLN	X	907	51.859	43.580	97.928	1.00	0.00	H
ATOM	11132	HG3	GLN	X	907	53.280	43.015	96.967	1.00	0.00	H
ATOM	11133	CD	GLN	X	907	52.671	41.844	98.670	1.00	0.00	C
ATOM	11134	OE1	GLN	X	907	53.091	41.628	99.808	1.00	0.00	O
ATOM	11135	NE2	GLN	X	907	52.158	40.835	97.976	1.00	0.00	N
ATOM	11136	HE21	GLN	X	907	51.757	40.002	98.382	1.00	0.00	H
ATOM	11137	HE22	GLN	X	907	52.017	41.049	96.997	1.00	0.00	H
ATOM	11138	C	GLN	X	907	54.247	45.710	100.654	1.00	0.00	C
ATOM	11139	O	GLN	X	907	55.347	45.356	101.011	1.00	0.00	O
ATOM	11140	N	SER	X	908	53.940	46.971	100.553	1.00	0.00	N
ATOM	11141	H	SER	X	908	52.979	47.206	100.351	1.00	0.00	H
ATOM	11142	CA	SER	X	908	54.922	48.106	100.834	1.00	0.00	C
ATOM	11143	HA	SER	X	908	55.911	47.675	100.986	1.00	0.00	H
ATOM	11144	CB	SER	X	908	54.985	48.922	99.543	1.00	0.00	C
ATOM	11145	HB2	SER	X	908	55.313	48.260	98.741	1.00	0.00	H
ATOM	11146	HB3	SER	X	908	53.983	49.278	99.306	1.00	0.00	H
ATOM	11147	OG	SER	X	908	55.859	50.005	99.731	1.00	0.00	O
ATOM	11148	HG	SER	X	908	55.206	50.683	99.922	1.00	0.00	H
ATOM	11149	C	SER	X	908	54.589	48.849	102.044	1.00	0.00	C
ATOM	11150	O	SER	X	908	55.482	49.297	102.724	1.00	0.00	O

ATOM	11151	N	LEU	X	909	53.379	48.871	102.515	1.00	0.00	N
ATOM	11152	H	LEU	X	909	52.706	48.321	102.001	1.00	0.00	H
ATOM	11153	CA	LEU	X	909	52.992	49.611	103.721	1.00	0.00	C
ATOM	11154	HA	LEU	X	909	53.389	50.621	103.609	1.00	0.00	H
ATOM	11155	CB	LEU	X	909	51.429	49.734	103.744	1.00	0.00	C
ATOM	11156	HB2	LEU	X	909	51.086	49.883	102.720	1.00	0.00	H
ATOM	11157	HB3	LEU	X	909	50.863	48.868	104.085	1.00	0.00	H
ATOM	11158	CG	LEU	X	909	51.038	51.050	104.489	1.00	0.00	C
ATOM	11159	HG	LEU	X	909	51.558	51.942	104.142	1.00	0.00	H
ATOM	11160	CD1	LEU	X	909	49.543	51.346	104.352	1.00	0.00	C
ATOM	11161	HD11	LEU	X	909	49.072	52.135	104.936	1.00	0.00	H
ATOM	11162	HD12	LEU	X	909	49.379	51.513	103.287	1.00	0.00	H
ATOM	11163	HD13	LEU	X	909	48.991	50.468	104.686	1.00	0.00	H
ATOM	11164	CD2	LEU	X	909	51.190	51.030	106.004	1.00	0.00	C
ATOM	11165	HD21	LEU	X	909	52.234	50.898	106.291	1.00	0.00	H
ATOM	11166	HD22	LEU	X	909	50.908	52.038	106.306	1.00	0.00	H
ATOM	11167	HD23	LEU	X	909	50.648	50.190	106.439	1.00	0.00	H
ATOM	11168	C	LEU	X	909	53.627	48.982	105.008	1.00	0.00	C
ATOM	11169	O	LEU	X	909	53.158	47.951	105.465	1.00	0.00	O
ATOM	11170	N	LYS	X	910	54.758	49.528	105.513	1.00	0.00	N
ATOM	11171	H	LYS	X	910	55.144	50.360	105.089	1.00	0.00	H
ATOM	11172	CA	LYS	X	910	55.473	49.077	106.713	1.00	0.00	C
ATOM	11173	HA	LYS	X	910	55.223	48.028	106.871	1.00	0.00	H
ATOM	11174	CB	LYS	X	910	56.943	49.163	106.422	1.00	0.00	C
ATOM	11175	HB2	LYS	X	910	57.073	50.170	106.022	1.00	0.00	H
ATOM	11176	HB3	LYS	X	910	57.562	49.138	107.319	1.00	0.00	H
ATOM	11177	CG	LYS	X	910	57.412	48.175	105.343	1.00	0.00	C
ATOM	11178	HG2	LYS	X	910	57.879	47.333	105.854	1.00	0.00	H
ATOM	11179	HG3	LYS	X	910	56.613	47.791	104.711	1.00	0.00	H
ATOM	11180	CD	LYS	X	910	58.505	48.757	104.370	1.00	0.00	C
ATOM	11181	HD2	LYS	X	910	58.026	49.257	103.528	1.00	0.00	H
ATOM	11182	HD3	LYS	X	910	59.215	49.404	104.885	1.00	0.00	H
ATOM	11183	CE	LYS	X	910	59.210	47.548	103.703	1.00	0.00	C
ATOM	11184	HE2	LYS	X	910	59.717	46.985	104.488	1.00	0.00	H
ATOM	11185	HE3	LYS	X	910	58.439	46.881	103.316	1.00	0.00	H
ATOM	11186	NZ	LYS	X	910	60.158	47.941	102.569	1.00	0.00	N
ATOM	11187	HZ1	LYS	X	910	60.585	47.091	102.228	1.00	0.00	H
ATOM	11188	HZ2	LYS	X	910	59.591	48.360	101.845	1.00	0.00	H
ATOM	11189	HZ3	LYS	X	910	60.816	48.635	102.895	1.00	0.00	H
ATOM	11190	C	LYS	X	910	55.087	49.813	108.048	1.00	0.00	C
ATOM	11191	O	LYS	X	910	55.387	49.226	109.113	1.00	0.00	O
ATOM	11192	N	TRP	X	911	54.373	50.891	107.989	1.00	0.00	N
ATOM	11193	H	TRP	X	911	54.130	51.304	107.100	1.00	0.00	H
ATOM	11194	CA	TRP	X	911	54.095	51.642	109.240	1.00	0.00	C
ATOM	11195	HA	TRP	X	911	54.162	50.995	110.115	1.00	0.00	H
ATOM	11196	CB	TRP	X	911	55.109	52.827	109.474	1.00	0.00	C
ATOM	11197	HB2	TRP	X	911	56.123	52.556	109.178	1.00	0.00	H
ATOM	11198	HB3	TRP	X	911	54.974	53.633	108.752	1.00	0.00	H
ATOM	11199	CG	TRP	X	911	55.022	53.489	110.834	1.00	0.00	C
ATOM	11200	CD1	TRP	X	911	55.784	53.247	111.945	1.00	0.00	C
ATOM	11201	HD1	TRP	X	911	56.669	52.628	111.962	1.00	0.00	H
ATOM	11202	NE1	TRP	X	911	55.449	54.132	112.970	1.00	0.00	N
ATOM	11203	HE1	TRP	X	911	55.921	54.120	113.863	1.00	0.00	H
ATOM	11204	CE2	TRP	X	911	54.497	55.039	112.549	1.00	0.00	C
ATOM	11205	CZ2	TRP	X	911	53.847	56.124	113.202	1.00	0.00	C
ATOM	11206	HZ2	TRP	X	911	54.192	56.522	114.146	1.00	0.00	H
ATOM	11207	CH2	TRP	X	911	52.885	56.882	112.530	1.00	0.00	C
ATOM	11208	HH2	TRP	X	911	52.479	57.801	112.925	1.00	0.00	H
ATOM	11209	CZ3	TRP	X	911	52.487	56.463	111.291	1.00	0.00	C
ATOM	11210	HZ3	TRP	X	911	51.770	57.105	110.800	1.00	0.00	H
ATOM	11211	CE3	TRP	X	911	53.075	55.408	110.587	1.00	0.00	C
ATOM	11212	HE3	TRP	X	911	52.830	55.235	109.549	1.00	0.00	H
ATOM	11213	CD2	TRP	X	911	54.088	54.586	111.240	1.00	0.00	C
ATOM	11214	C	TRP	X	911	52.654	52.200	109.243	1.00	0.00	C
ATOM	11215	O	TRP	X	911	52.312	53.003	108.435	1.00	0.00	O
ATOM	11216	N	LEU	X	912	51.707	51.683	110.087	1.00	0.00	N
ATOM	11217	H	LEU	X	912	51.952	50.916	110.696	1.00	0.00	H
ATOM	11218	CA	LEU	X	912	50.297	52.039	110.134	1.00	0.00	C
ATOM	11219	HA	LEU	X	912	50.263	52.944	109.528	1.00	0.00	H
ATOM	11220	CB	LEU	X	912	49.391	50.897	109.664	1.00	0.00	C
ATOM	11221	HB2	LEU	X	912	49.698	50.577	108.669	1.00	0.00	H
ATOM	11222	HB3	LEU	X	912	49.440	50.053	110.352	1.00	0.00	H
ATOM	11223	CG	LEU	X	912	47.973	51.175	109.634	1.00	0.00	C
ATOM	11224	HG	LEU	X	912	47.764	51.740	110.542	1.00	0.00	H
ATOM	11225	CD1	LEU	X	912	47.585	52.044	108.444	1.00	0.00	C
ATOM	11226	HD11	LEU	X	912	47.762	51.500	107.516	1.00	0.00	H
ATOM	11227	HD12	LEU	X	912	46.507	52.176	108.365	1.00	0.00	H
ATOM	11228	HD13	LEU	X	912	48.073	53.019	108.470	1.00	0.00	H
ATOM	11229	CD2	LEU	X	912	47.129	49.867	109.546	1.00	0.00	C
ATOM	11230	HD21	LEU	X	912	46.070	50.050	109.364	1.00	0.00	H
ATOM	11231	HD22	LEU	X	912	47.590	49.243	108.781	1.00	0.00	H
ATOM	11232	HD23	LEU	X	912	47.076	49.456	110.555	1.00	0.00	H

ATOM	11233	C	LEU	X	912	49.948	52.585	111.514	1.00	0.00	C
ATOM	11234	O	LEU	X	912	50.221	51.999	112.547	1.00	0.00	O
ATOM	11235	N	SER	X	913	49.188	53.711	111.591	1.00	0.00	N
ATOM	11236	H	SER	X	913	49.039	54.155	110.697	1.00	0.00	H
ATOM	11237	CA	SER	X	913	48.785	54.423	112.806	1.00	0.00	C
ATOM	11238	HA	SER	X	913	48.684	53.719	113.632	1.00	0.00	H
ATOM	11239	CB	SER	X	913	49.966	55.309	113.273	1.00	0.00	C
ATOM	11240	HB2	SER	X	913	50.911	54.765	113.296	1.00	0.00	H
ATOM	11241	HB3	SER	X	913	50.130	55.976	112.427	1.00	0.00	H
ATOM	11242	OG	SER	X	913	49.575	55.901	114.487	1.00	0.00	O
ATOM	11243	HG	SER	X	913	50.357	55.875	115.044	1.00	0.00	H
ATOM	11244	C	SER	X	913	47.377	55.068	112.803	1.00	0.00	C
ATOM	11245	O	SER	X	913	46.952	55.707	111.842	1.00	0.00	O
ATOM	11246	N	LEU	X	914	46.579	54.855	113.842	1.00	0.00	N
ATOM	11247	H	LEU	X	914	46.988	54.600	114.730	1.00	0.00	H
ATOM	11248	CA	LEU	X	914	45.066	55.014	113.858	1.00	0.00	C
ATOM	11249	HA	LEU	X	914	44.810	55.781	113.128	1.00	0.00	H
ATOM	11250	CB	LEU	X	914	44.433	53.637	113.354	1.00	0.00	C
ATOM	11251	HB2	LEU	X	914	44.756	52.887	114.077	1.00	0.00	H
ATOM	11252	HB3	LEU	X	914	43.352	53.767	113.387	1.00	0.00	H
ATOM	11253	CG	LEU	X	914	44.762	53.107	111.975	1.00	0.00	C
ATOM	11254	HG	LEU	X	914	45.826	52.978	111.771	1.00	0.00	H
ATOM	11255	CD1	LEU	X	914	43.992	51.763	111.707	1.00	0.00	C
ATOM	11256	HD11	LEU	X	914	44.530	51.249	110.910	1.00	0.00	H
ATOM	11257	HD12	LEU	X	914	44.039	51.084	112.559	1.00	0.00	H
ATOM	11258	HD13	LEU	X	914	42.965	51.967	111.405	1.00	0.00	H
ATOM	11259	CD2	LEU	X	914	44.160	54.141	110.988	1.00	0.00	C
ATOM	11260	HD21	LEU	X	914	44.310	53.822	109.957	1.00	0.00	H
ATOM	11261	HD22	LEU	X	914	43.121	54.417	111.174	1.00	0.00	H
ATOM	11262	HD23	LEU	X	914	44.597	55.140	111.022	1.00	0.00	H
ATOM	11263	C	LEU	X	914	44.543	55.543	115.218	1.00	0.00	C
ATOM	11264	O	LEU	X	914	43.610	55.016	115.833	1.00	0.00	O
ATOM	11265	N	VAL	X	915	45.309	56.456	115.841	1.00	0.00	N
ATOM	11266	H	VAL	X	915	46.011	56.847	115.229	1.00	0.00	H
ATOM	11267	CA	VAL	X	915	45.213	56.826	117.245	1.00	0.00	C
ATOM	11268	HA	VAL	X	915	45.078	55.917	117.832	1.00	0.00	H
ATOM	11269	CB	VAL	X	915	46.534	57.478	117.644	1.00	0.00	C
ATOM	11270	HB	VAL	X	915	46.571	58.386	117.040	1.00	0.00	H
ATOM	11271	CG1	VAL	X	915	46.410	57.991	119.069	1.00	0.00	C
ATOM	11272	HG11	VAL	X	915	46.384	57.194	119.811	1.00	0.00	H
ATOM	11273	HG12	VAL	X	915	47.317	58.526	119.347	1.00	0.00	H
ATOM	11274	HG13	VAL	X	915	45.532	58.571	119.357	1.00	0.00	H
ATOM	11275	CG2	VAL	X	915	47.794	56.731	117.274	1.00	0.00	C
ATOM	11276	HG21	VAL	X	915	48.646	57.066	117.865	1.00	0.00	H
ATOM	11277	HG22	VAL	X	915	47.578	55.702	117.562	1.00	0.00	H
ATOM	11278	HG23	VAL	X	915	48.026	56.926	116.227	1.00	0.00	H
ATOM	11279	C	VAL	X	915	43.956	57.656	117.432	1.00	0.00	C
ATOM	11280	O	VAL	X	915	43.738	58.601	116.730	1.00	0.00	O
ATOM	11281	N	GLY	X	916	43.122	57.170	118.393	1.00	0.00	N
ATOM	11282	H	GLY	X	916	43.392	56.302	118.832	1.00	0.00	H
ATOM	11283	CA	GLY	X	916	41.979	57.909	118.908	1.00	0.00	C
ATOM	11284	HA2	GLY	X	916	41.607	57.358	119.771	1.00	0.00	H
ATOM	11285	HA3	GLY	X	916	42.211	58.871	119.365	1.00	0.00	H
ATOM	11286	C	GLY	X	916	40.852	58.212	117.885	1.00	0.00	C
ATOM	11287	O	GLY	X	916	39.979	59.010	118.117	1.00	0.00	O
ATOM	11288	N	ASN	X	917	40.842	57.392	116.844	1.00	0.00	N
ATOM	11289	H	ASN	X	917	41.348	56.531	116.995	1.00	0.00	H
ATOM	11290	CA	ASN	X	917	39.889	57.253	115.774	1.00	0.00	C
ATOM	11291	HA	ASN	X	917	39.585	58.258	115.485	1.00	0.00	H
ATOM	11292	CB	ASN	X	917	40.531	56.474	114.644	1.00	0.00	C
ATOM	11293	HB2	ASN	X	917	40.913	55.531	115.034	1.00	0.00	H
ATOM	11294	HB3	ASN	X	917	39.759	56.157	113.941	1.00	0.00	H
ATOM	11295	CG	ASN	X	917	41.673	57.146	113.883	1.00	0.00	C
ATOM	11296	OD1	ASN	X	917	41.948	56.837	112.756	1.00	0.00	O
ATOM	11297	ND2	ASN	X	917	42.307	58.189	114.371	1.00	0.00	N
ATOM	11298	HD21	ASN	X	917	43.195	58.417	113.950	1.00	0.00	H
ATOM	11299	HD22	ASN	X	917	42.233	58.409	115.354	1.00	0.00	H
ATOM	11300	C	ASN	X	917	38.569	56.678	116.215	1.00	0.00	C
ATOM	11301	O	ASN	X	917	37.810	56.419	115.236	1.00	0.00	O
ATOM	11302	N	ASN	X	918	38.237	56.614	117.492	1.00	0.00	N
ATOM	11303	H	ASN	X	918	38.913	57.015	118.126	1.00	0.00	H
ATOM	11304	CA	ASN	X	918	37.092	56.044	118.094	1.00	0.00	C
ATOM	11305	HA	ASN	X	918	37.129	55.864	119.167	1.00	0.00	H
ATOM	11306	CB	ASN	X	918	35.790	56.861	117.813	1.00	0.00	C
ATOM	11307	HB2	ASN	X	918	35.687	56.910	116.730	1.00	0.00	H
ATOM	11308	HB3	ASN	X	918	34.962	56.333	118.288	1.00	0.00	H
ATOM	11309	CG	ASN	X	918	35.860	58.322	118.396	1.00	0.00	C
ATOM	11310	OD1	ASN	X	918	36.688	58.647	119.176	1.00	0.00	O
ATOM	11311	ND2	ASN	X	918	34.955	59.107	117.858	1.00	0.00	N
ATOM	11312	HD21	ASN	X	918	34.882	59.995	118.333	1.00	0.00	H
ATOM	11313	HD22	ASN	X	918	34.255	58.745	117.225	1.00	0.00	H
ATOM	11314	C	ASN	X	918	36.891	54.600	117.537	1.00	0.00	C

ATOM	11315	O	ASN	X	918	35.733	54.194	117.314	1.00	0.00	O
ATOM	11316	N	ILE	X	919	37.955	53.886	117.334	1.00	0.00	N
ATOM	11317	H	ILE	X	919	38.860	54.294	117.514	1.00	0.00	H
ATOM	11318	CA	ILE	X	919	37.804	52.518	116.898	1.00	0.00	C
ATOM	11319	HA	ILE	X	919	37.007	52.327	116.179	1.00	0.00	H
ATOM	11320	CB	ILE	X	919	39.065	51.949	116.171	1.00	0.00	C
ATOM	11321	HB	ILE	X	919	39.946	52.090	116.797	1.00	0.00	H
ATOM	11322	CG2	ILE	X	919	38.949	50.433	115.823	1.00	0.00	C
ATOM	11323	HG21	ILE	X	919	39.023	49.806	116.712	1.00	0.00	H
ATOM	11324	HG22	ILE	X	919	38.004	50.162	115.354	1.00	0.00	H
ATOM	11325	HG23	ILE	X	919	39.794	50.222	115.167	1.00	0.00	H
ATOM	11326	CG1	ILE	X	919	39.395	52.767	114.938	1.00	0.00	C
ATOM	11327	HG12	ILE	X	919	38.659	52.481	114.188	1.00	0.00	H
ATOM	11328	HG13	ILE	X	919	39.251	53.842	115.050	1.00	0.00	H
ATOM	11329	CD1	ILE	X	919	40.876	52.735	114.414	1.00	0.00	C
ATOM	11330	HD11	ILE	X	919	41.032	53.486	113.639	1.00	0.00	H
ATOM	11331	HD12	ILE	X	919	41.545	53.013	115.228	1.00	0.00	H
ATOM	11332	HD13	ILE	X	919	41.096	51.750	114.002	1.00	0.00	H
ATOM	11333	C	ILE	X	919	37.466	51.620	118.092	1.00	0.00	C
ATOM	11334	O	ILE	X	919	38.044	51.831	119.160	1.00	0.00	O
ATOM	11335	N	GLY	X	920	36.644	50.588	117.906	1.00	0.00	N
ATOM	11336	H	GLY	X	920	36.268	50.480	116.974	1.00	0.00	H
ATOM	11337	CA	GLY	X	920	36.322	49.555	118.881	1.00	0.00	C
ATOM	11338	HA2	GLY	X	920	36.776	49.844	119.829	1.00	0.00	H
ATOM	11339	HA3	GLY	X	920	35.240	49.611	118.998	1.00	0.00	H
ATOM	11340	C	GLY	X	920	36.680	48.050	118.534	1.00	0.00	C
ATOM	11341	O	GLY	X	920	37.711	47.782	117.943	1.00	0.00	O
ATOM	11342	N	SER	X	921	35.827	47.117	118.902	1.00	0.00	N
ATOM	11343	H	SER	X	921	34.982	47.364	119.395	1.00	0.00	H
ATOM	11344	CA	SER	X	921	36.056	45.649	118.901	1.00	0.00	C
ATOM	11345	HA	SER	X	921	37.031	45.393	119.319	1.00	0.00	H
ATOM	11346	CB	SER	X	921	35.028	44.907	119.703	1.00	0.00	C
ATOM	11347	HB2	SER	X	921	34.154	44.692	119.086	1.00	0.00	H
ATOM	11348	HB3	SER	X	921	35.365	43.923	120.028	1.00	0.00	H
ATOM	11349	OG	SER	X	921	34.879	45.587	120.924	1.00	0.00	O
ATOM	11350	HG	SER	X	921	34.091	45.227	121.337	1.00	0.00	H
ATOM	11351	C	SER	X	921	36.067	45.107	117.519	1.00	0.00	C
ATOM	11352	O	SER	X	921	37.009	44.421	117.128	1.00	0.00	O
ATOM	11353	N	VAL	X	922	35.071	45.434	116.704	1.00	0.00	N
ATOM	11354	H	VAL	X	922	34.289	46.000	116.998	1.00	0.00	H
ATOM	11355	CA	VAL	X	922	34.959	44.926	115.338	1.00	0.00	C
ATOM	11356	HA	VAL	X	922	35.080	43.843	115.330	1.00	0.00	H
ATOM	11357	CB	VAL	X	922	33.664	45.434	114.672	1.00	0.00	C
ATOM	11358	HB	VAL	X	922	33.437	46.501	114.693	1.00	0.00	H
ATOM	11359	CG1	VAL	X	922	33.599	45.098	113.141	1.00	0.00	C
ATOM	11360	HG11	VAL	X	922	34.187	44.200	112.959	1.00	0.00	H
ATOM	11361	HG12	VAL	X	922	32.562	45.073	112.805	1.00	0.00	H
ATOM	11362	HG13	VAL	X	922	34.138	45.881	112.607	1.00	0.00	H
ATOM	11363	CG2	VAL	X	922	32.448	44.721	115.262	1.00	0.00	C
ATOM	11364	HG21	VAL	X	922	32.445	43.630	115.270	1.00	0.00	H
ATOM	11365	HG22	VAL	X	922	32.369	44.989	116.316	1.00	0.00	H
ATOM	11366	HG23	VAL	X	922	31.521	45.031	114.781	1.00	0.00	H
ATOM	11367	C	VAL	X	922	36.211	45.341	114.559	1.00	0.00	C
ATOM	11368	O	VAL	X	922	36.846	44.494	113.958	1.00	0.00	O
ATOM	11369	N	GLY	X	923	36.648	46.607	114.643	1.00	0.00	N
ATOM	11370	H	GLY	X	923	36.083	47.182	115.250	1.00	0.00	H
ATOM	11371	CA	GLY	X	923	37.897	47.148	114.116	1.00	0.00	C
ATOM	11372	HA2	GLY	X	923	37.854	47.062	113.029	1.00	0.00	H
ATOM	11373	HA3	GLY	X	923	38.003	48.191	114.412	1.00	0.00	H
ATOM	11374	C	GLY	X	923	39.137	46.434	114.471	1.00	0.00	C
ATOM	11375	O	GLY	X	923	40.009	46.160	113.601	1.00	0.00	O
ATOM	11376	N	ALA	X	924	39.287	45.986	115.755	1.00	0.00	N
ATOM	11377	H	ALA	X	924	38.566	46.226	116.420	1.00	0.00	H
ATOM	11378	CA	ALA	X	924	40.346	45.126	116.112	1.00	0.00	C
ATOM	11379	HA	ALA	X	924	41.283	45.526	115.722	1.00	0.00	H
ATOM	11380	CB	ALA	X	924	40.529	44.991	117.639	1.00	0.00	C
ATOM	11381	HB1	ALA	X	924	41.393	44.380	117.904	1.00	0.00	H
ATOM	11382	HB2	ALA	X	924	40.526	45.962	118.133	1.00	0.00	H
ATOM	11383	HB3	ALA	X	924	39.729	44.332	117.979	1.00	0.00	H
ATOM	11384	C	ALA	X	924	40.183	43.692	115.486	1.00	0.00	C
ATOM	11385	O	ALA	X	924	41.205	43.019	115.276	1.00	0.00	O
ATOM	11386	N	GLN	X	925	38.949	43.171	115.285	1.00	0.00	N
ATOM	11387	H	GLN	X	925	38.155	43.749	115.521	1.00	0.00	H
ATOM	11388	CA	GLN	X	925	38.765	41.856	114.584	1.00	0.00	C
ATOM	11389	HA	GLN	X	925	39.280	41.096	115.170	1.00	0.00	H
ATOM	11390	CB	GLN	X	925	37.292	41.396	114.662	1.00	0.00	C
ATOM	11391	HB2	GLN	X	925	36.958	41.448	115.698	1.00	0.00	H
ATOM	11392	HB3	GLN	X	925	36.639	42.041	114.074	1.00	0.00	H
ATOM	11393	CG	GLN	X	925	37.035	40.050	114.033	1.00	0.00	C
ATOM	11394	HG2	GLN	X	925	37.751	39.326	114.423	1.00	0.00	H
ATOM	11395	HG3	GLN	X	925	36.099	39.699	114.469	1.00	0.00	H
ATOM	11396	CD	GLN	X	925	36.903	40.031	112.484	1.00	0.00	C

ATOM	11397	OE1	GLN	X	925	36.774	41.145	111.938	1.00	0.00	O
ATOM	11398	NE2	GLN	X	925	36.905	38.906	111.843	1.00	0.00	N
ATOM	11399	HE21	GLN	X	925	36.904	39.040	110.843	1.00	0.00	H
ATOM	11400	HE22	GLN	X	925	37.048	38.000	112.268	1.00	0.00	H
ATOM	11401	C	GLN	X	925	39.262	41.900	113.106	1.00	0.00	C
ATOM	11402	O	GLN	X	925	39.909	40.918	112.663	1.00	0.00	O
ATOM	11403	N	ALA	X	926	38.908	42.939	112.381	1.00	0.00	N
ATOM	11404	H	ALA	X	926	38.209	43.577	112.733	1.00	0.00	H
ATOM	11405	CA	ALA	X	926	39.295	42.977	110.999	1.00	0.00	C
ATOM	11406	HA	ALA	X	926	38.995	42.018	110.575	1.00	0.00	H
ATOM	11407	CB	ALA	X	926	38.537	44.158	110.370	1.00	0.00	C
ATOM	11408	HB1	ALA	X	926	37.477	43.918	110.278	1.00	0.00	H
ATOM	11409	HB2	ALA	X	926	38.741	45.040	110.977	1.00	0.00	H
ATOM	11410	HB3	ALA	X	926	38.846	44.326	109.339	1.00	0.00	H
ATOM	11411	C	ALA	X	926	40.767	43.292	110.825	1.00	0.00	C
ATOM	11412	O	ALA	X	926	41.353	42.834	109.824	1.00	0.00	O
ATOM	11413	N	LEU	X	927	41.319	44.096	111.753	1.00	0.00	N
ATOM	11414	H	LEU	X	927	40.715	44.577	112.404	1.00	0.00	H
ATOM	11415	CA	LEU	X	927	42.759	44.220	111.777	1.00	0.00	C
ATOM	11416	HA	LEU	X	927	43.180	44.687	110.887	1.00	0.00	H
ATOM	11417	CB	LEU	X	927	42.995	45.290	112.889	1.00	0.00	C
ATOM	11418	HB2	LEU	X	927	42.365	45.181	113.771	1.00	0.00	H
ATOM	11419	HB3	LEU	X	927	44.007	45.161	113.271	1.00	0.00	H
ATOM	11420	CG	LEU	X	927	42.986	46.757	112.389	1.00	0.00	C
ATOM	11421	HG	LEU	X	927	42.046	46.984	111.884	1.00	0.00	H
ATOM	11422	CD1	LEU	X	927	42.989	47.674	113.583	1.00	0.00	C
ATOM	11423	HD11	LEU	X	927	42.325	47.267	114.347	1.00	0.00	H
ATOM	11424	HD12	LEU	X	927	43.954	47.513	114.061	1.00	0.00	H
ATOM	11425	HD13	LEU	X	927	42.662	48.684	113.338	1.00	0.00	H
ATOM	11426	CD2	LEU	X	927	44.211	47.079	111.501	1.00	0.00	C
ATOM	11427	HD21	LEU	X	927	44.047	46.808	110.458	1.00	0.00	H
ATOM	11428	HD22	LEU	X	927	44.332	48.162	111.459	1.00	0.00	H
ATOM	11429	HD23	LEU	X	927	45.088	46.648	111.986	1.00	0.00	H
ATOM	11430	C	LEU	X	927	43.473	42.907	112.103	1.00	0.00	C
ATOM	11431	O	LEU	X	927	44.446	42.580	111.447	1.00	0.00	O
ATOM	11432	N	ALA	X	928	42.923	42.066	113.009	1.00	0.00	N
ATOM	11433	H	ALA	X	928	42.104	42.442	113.466	1.00	0.00	H
ATOM	11434	CA	ALA	X	928	43.418	40.699	113.223	1.00	0.00	C
ATOM	11435	HA	ALA	X	928	44.484	40.721	113.448	1.00	0.00	H
ATOM	11436	CB	ALA	X	928	42.626	40.187	114.382	1.00	0.00	C
ATOM	11437	HB1	ALA	X	928	42.737	40.713	115.330	1.00	0.00	H
ATOM	11438	HB2	ALA	X	928	41.559	40.159	114.167	1.00	0.00	H
ATOM	11439	HB3	ALA	X	928	42.882	39.196	114.759	1.00	0.00	H
ATOM	11440	C	ALA	X	928	43.289	39.755	111.936	1.00	0.00	C
ATOM	11441	O	ALA	X	928	44.222	39.032	111.552	1.00	0.00	O
ATOM	11442	N	SER	X	929	42.196	39.885	111.219	1.00	0.00	N
ATOM	11443	H	SER	X	929	41.544	40.557	111.595	1.00	0.00	H
ATOM	11444	CA	SER	X	929	41.973	39.297	109.861	1.00	0.00	C
ATOM	11445	HA	SER	X	929	42.100	38.215	109.907	1.00	0.00	H
ATOM	11446	CB	SER	X	929	40.504	39.575	109.565	1.00	0.00	C
ATOM	11447	HB2	SER	X	929	40.302	40.646	109.589	1.00	0.00	H
ATOM	11448	HB3	SER	X	929	40.259	39.272	108.547	1.00	0.00	H
ATOM	11449	OG	SER	X	929	39.619	38.896	110.368	1.00	0.00	O
ATOM	11450	HG	SER	X	929	39.543	39.390	111.187	1.00	0.00	H
ATOM	11451	C	SER	X	929	42.892	39.868	108.715	1.00	0.00	C
ATOM	11452	O	SER	X	929	43.229	39.156	107.793	1.00	0.00	O
ATOM	11453	N	MET	X	930	43.313	41.114	108.810	1.00	0.00	N
ATOM	11454	H	MET	X	930	42.869	41.744	109.462	1.00	0.00	H
ATOM	11455	CA	MET	X	930	44.344	41.596	107.977	1.00	0.00	C
ATOM	11456	HA	MET	X	930	44.166	41.265	106.953	1.00	0.00	H
ATOM	11457	CB	MET	X	930	44.287	43.131	108.050	1.00	0.00	C
ATOM	11458	HB2	MET	X	930	43.321	43.382	107.614	1.00	0.00	H
ATOM	11459	HB3	MET	X	930	44.319	43.489	109.081	1.00	0.00	H
ATOM	11460	CG	MET	X	930	45.385	43.711	107.171	1.00	0.00	C
ATOM	11461	HG2	MET	X	930	45.538	42.958	106.398	1.00	0.00	H
ATOM	11462	HG3	MET	X	930	45.021	44.656	106.769	1.00	0.00	H
ATOM	11463	SD	MET	X	930	46.925	44.086	108.042	1.00	0.00	S
ATOM	11464	CE	MET	X	930	46.391	45.521	109.226	1.00	0.00	C
ATOM	11465	HE1	MET	X	930	47.289	46.066	109.520	1.00	0.00	H
ATOM	11466	HE2	MET	X	930	45.680	46.170	108.716	1.00	0.00	H
ATOM	11467	HE3	MET	X	930	45.792	45.125	110.046	1.00	0.00	H
ATOM	11468	C	MET	X	930	45.722	41.001	108.419	1.00	0.00	C
ATOM	11469	O	MET	X	930	46.498	40.561	107.579	1.00	0.00	O
ATOM	11470	N	LEU	X	931	46.018	40.933	109.703	1.00	0.00	N
ATOM	11471	H	LEU	X	931	45.315	41.339	110.305	1.00	0.00	H
ATOM	11472	CA	LEU	X	931	47.430	40.700	110.157	1.00	0.00	C
ATOM	11473	HA	LEU	X	931	48.127	41.260	109.534	1.00	0.00	H
ATOM	11474	CB	LEU	X	931	47.423	40.866	111.663	1.00	0.00	C
ATOM	11475	HB2	LEU	X	931	46.450	40.552	112.041	1.00	0.00	H
ATOM	11476	HB3	LEU	X	931	48.141	40.236	112.186	1.00	0.00	H
ATOM	11477	CG	LEU	X	931	47.646	42.390	112.042	1.00	0.00	C
ATOM	11478	HG	LEU	X	931	46.867	42.926	111.503	1.00	0.00	H

ATOM	11479	CD1	LEU	X	931	47.496	42.660	113.528	1.00	0.00	C
ATOM	11480	HD11	LEU	X	931	48.216	42.033	114.053	1.00	0.00	H
ATOM	11481	HD12	LEU	X	931	47.647	43.731	113.665	1.00	0.00	H
ATOM	11482	HD13	LEU	X	931	46.465	42.470	113.825	1.00	0.00	H
ATOM	11483	CD2	LEU	X	931	49.053	42.857	111.676	1.00	0.00	C
ATOM	11484	HD21	LEU	X	931	49.687	42.181	112.250	1.00	0.00	H
ATOM	11485	HD22	LEU	X	931	49.320	42.808	110.620	1.00	0.00	H
ATOM	11486	HD23	LEU	X	931	49.264	43.834	112.110	1.00	0.00	H
ATOM	11487	C	LEU	X	931	47.758	39.269	109.781	1.00	0.00	C
ATOM	11488	O	LEU	X	931	48.890	38.958	109.433	1.00	0.00	O
ATOM	11489	N	GLU	X	932	46.781	38.383	109.839	1.00	0.00	N
ATOM	11490	H	GLU	X	932	45.920	38.552	110.340	1.00	0.00	H
ATOM	11491	CA	GLU	X	932	47.091	37.003	109.414	1.00	0.00	C
ATOM	11492	HA	GLU	X	932	48.084	36.644	109.684	1.00	0.00	H
ATOM	11493	CB	GLU	X	932	46.031	35.963	109.899	1.00	0.00	C
ATOM	11494	HB2	GLU	X	932	46.374	34.948	109.702	1.00	0.00	H
ATOM	11495	HB3	GLU	X	932	45.851	36.249	110.936	1.00	0.00	H
ATOM	11496	CG	GLU	X	932	44.657	36.078	109.116	1.00	0.00	C
ATOM	11497	HG2	GLU	X	932	44.166	36.993	109.444	1.00	0.00	H
ATOM	11498	HG3	GLU	X	932	44.949	36.080	108.066	1.00	0.00	H
ATOM	11499	CD	GLU	X	932	43.668	34.942	109.351	1.00	0.00	C
ATOM	11500	OE1	GLU	X	932	43.295	34.594	110.513	1.00	0.00	O
ATOM	11501	OE2	GLU	X	932	43.172	34.492	108.287	1.00	0.00	O
ATOM	11502	C	GLU	X	932	47.280	36.866	107.854	1.00	0.00	C
ATOM	11503	O	GLU	X	932	47.856	35.849	107.407	1.00	0.00	O
ATOM	11504	N	LYS	X	933	46.930	37.846	107.038	1.00	0.00	N
ATOM	11505	H	LYS	X	933	46.604	38.733	107.399	1.00	0.00	H
ATOM	11506	CA	LYS	X	933	47.021	37.764	105.573	1.00	0.00	C
ATOM	11507	HA	LYS	X	933	47.096	36.785	105.103	1.00	0.00	H
ATOM	11508	CB	LYS	X	933	45.713	38.400	104.992	1.00	0.00	C
ATOM	11509	HB2	LYS	X	933	44.952	38.724	105.703	1.00	0.00	H
ATOM	11510	HB3	LYS	X	933	46.011	39.327	104.500	1.00	0.00	H
ATOM	11511	CG	LYS	X	933	45.157	37.357	103.995	1.00	0.00	C
ATOM	11512	HG2	LYS	X	933	44.950	36.533	104.678	1.00	0.00	H
ATOM	11513	HG3	LYS	X	933	44.190	37.668	103.602	1.00	0.00	H
ATOM	11514	CD	LYS	X	933	46.035	36.808	102.727	1.00	0.00	C
ATOM	11515	HD2	LYS	X	933	46.729	36.040	103.070	1.00	0.00	H
ATOM	11516	HD3	LYS	X	933	45.339	36.287	102.070	1.00	0.00	H
ATOM	11517	CE	LYS	X	933	46.683	37.958	101.896	1.00	0.00	C
ATOM	11518	HE2	LYS	X	933	47.088	38.651	102.634	1.00	0.00	H
ATOM	11519	HE3	LYS	X	933	47.484	37.493	101.320	1.00	0.00	H
ATOM	11520	NZ	LYS	X	933	45.694	38.708	101.048	1.00	0.00	N
ATOM	11521	HZ1	LYS	X	933	44.963	38.143	100.639	1.00	0.00	H
ATOM	11522	HZ2	LYS	X	933	45.222	39.461	101.526	1.00	0.00	H
ATOM	11523	HZ3	LYS	X	933	46.210	39.119	100.283	1.00	0.00	H
ATOM	11524	C	LYS	X	933	48.186	38.629	105.063	1.00	0.00	C
ATOM	11525	O	LYS	X	933	48.663	38.389	103.959	1.00	0.00	O
ATOM	11526	N	ASN	X	934	48.655	39.686	105.754	1.00	0.00	N
ATOM	11527	H	ASN	X	934	48.189	39.956	106.607	1.00	0.00	H
ATOM	11528	CA	ASN	X	934	49.724	40.549	105.350	1.00	0.00	C
ATOM	11529	HA	ASN	X	934	49.698	40.670	104.268	1.00	0.00	H
ATOM	11530	CB	ASN	X	934	49.431	41.947	106.024	1.00	0.00	C
ATOM	11531	HB2	ASN	X	934	48.363	42.152	105.962	1.00	0.00	H
ATOM	11532	HB3	ASN	X	934	49.672	41.864	107.083	1.00	0.00	H
ATOM	11533	CG	ASN	X	934	50.196	43.083	105.362	1.00	0.00	C
ATOM	11534	OD1	ASN	X	934	51.305	43.458	105.668	1.00	0.00	O
ATOM	11535	ND2	ASN	X	934	49.589	43.730	104.385	1.00	0.00	N
ATOM	11536	HD21	ASN	X	934	50.022	44.493	103.886	1.00	0.00	H
ATOM	11537	HD22	ASN	X	934	48.609	43.563	104.204	1.00	0.00	H
ATOM	11538	C	ASN	X	934	51.116	40.019	105.790	1.00	0.00	C
ATOM	11539	O	ASN	X	934	51.230	39.354	106.813	1.00	0.00	O
ATOM	11540	N	VAL	X	935	52.175	40.361	105.067	1.00	0.00	N
ATOM	11541	H	VAL	X	935	52.058	40.833	104.182	1.00	0.00	H
ATOM	11542	CA	VAL	X	935	53.589	39.953	105.379	1.00	0.00	C
ATOM	11543	HA	VAL	X	935	53.554	39.548	106.392	1.00	0.00	H
ATOM	11544	CB	VAL	X	935	54.044	38.819	104.398	1.00	0.00	C
ATOM	11545	HB	VAL	X	935	54.954	38.448	104.871	1.00	0.00	H
ATOM	11546	CG1	VAL	X	935	53.057	37.735	104.100	1.00	0.00	C
ATOM	11547	HG11	VAL	X	935	52.592	37.340	105.003	1.00	0.00	H
ATOM	11548	HG12	VAL	X	935	52.147	38.125	103.646	1.00	0.00	H
ATOM	11549	HG13	VAL	X	935	53.500	36.914	103.535	1.00	0.00	H
ATOM	11550	CG2	VAL	X	935	54.426	39.391	103.008	1.00	0.00	C
ATOM	11551	HG21	VAL	X	935	55.284	40.046	103.161	1.00	0.00	H
ATOM	11552	HG22	VAL	X	935	54.819	38.680	102.281	1.00	0.00	H
ATOM	11553	HG23	VAL	X	935	53.570	39.942	102.618	1.00	0.00	H
ATOM	11554	C	VAL	X	935	54.465	41.244	105.408	1.00	0.00	C
ATOM	11555	O	VAL	X	935	55.620	41.115	105.714	1.00	0.00	O
ATOM	11556	N	ALA	X	936	53.955	42.498	105.173	1.00	0.00	N
ATOM	11557	H	ALA	X	936	52.968	42.541	104.966	1.00	0.00	H
ATOM	11558	CA	ALA	X	936	54.819	43.632	105.114	1.00	0.00	C
ATOM	11559	HA	ALA	X	936	55.855	43.295	105.081	1.00	0.00	H
ATOM	11560	CB	ALA	X	936	54.244	44.274	103.885	1.00	0.00	C

ATOM	11561	HB1	ALA	X	936	54.975	45.009	103.551	1.00	0.00	H
ATOM	11562	HB2	ALA	X	936	54.041	43.547	103.099	1.00	0.00	H
ATOM	11563	HB3	ALA	X	936	53.374	44.877	104.145	1.00	0.00	H
ATOM	11564	C	ALA	X	936	54.760	44.483	106.434	1.00	0.00	C
ATOM	11565	O	ALA	X	936	55.666	45.182	106.794	1.00	0.00	O
ATOM	11566	N	LEU	X	937	53.664	44.568	107.105	1.00	0.00	N
ATOM	11567	H	LEU	X	937	52.863	44.164	106.642	1.00	0.00	H
ATOM	11568	CA	LEU	X	937	53.430	45.600	108.165	1.00	0.00	C
ATOM	11569	HA	LEU	X	937	53.769	46.562	107.783	1.00	0.00	H
ATOM	11570	CB	LEU	X	937	51.907	45.634	108.427	1.00	0.00	C
ATOM	11571	HB2	LEU	X	937	51.356	45.579	107.489	1.00	0.00	H
ATOM	11572	HB3	LEU	X	937	51.677	44.702	108.945	1.00	0.00	H
ATOM	11573	CG	LEU	X	937	51.458	46.712	109.296	1.00	0.00	C
ATOM	11574	HG	LEU	X	937	51.999	46.511	110.220	1.00	0.00	H
ATOM	11575	CD1	LEU	X	937	51.710	48.119	108.742	1.00	0.00	C
ATOM	11576	HD11	LEU	X	937	52.785	48.266	108.639	1.00	0.00	H
ATOM	11577	HD12	LEU	X	937	51.131	48.367	107.852	1.00	0.00	H
ATOM	11578	HD13	LEU	X	937	51.360	48.844	109.476	1.00	0.00	H
ATOM	11579	CD2	LEU	X	937	49.999	46.666	109.706	1.00	0.00	C
ATOM	11580	HD21	LEU	X	937	49.834	47.174	110.656	1.00	0.00	H
ATOM	11581	HD22	LEU	X	937	49.359	47.127	108.952	1.00	0.00	H
ATOM	11582	HD23	LEU	X	937	49.570	45.668	109.790	1.00	0.00	H
ATOM	11583	C	LEU	X	937	54.272	45.229	109.365	1.00	0.00	C
ATOM	11584	O	LEU	X	937	54.079	44.175	110.015	1.00	0.00	O
ATOM	11585	N	GLU	X	938	55.242	46.117	109.727	1.00	0.00	N
ATOM	11586	H	GLU	X	938	55.394	46.899	109.106	1.00	0.00	H
ATOM	11587	CA	GLU	X	938	56.258	45.940	110.738	1.00	0.00	C
ATOM	11588	HA	GLU	X	938	56.292	44.876	110.975	1.00	0.00	H
ATOM	11589	CB	GLU	X	938	57.624	46.416	110.115	1.00	0.00	C
ATOM	11590	HB2	GLU	X	938	57.825	45.825	109.222	1.00	0.00	H
ATOM	11591	HB3	GLU	X	938	57.489	47.449	109.796	1.00	0.00	H
ATOM	11592	CG	GLU	X	938	58.881	46.395	111.076	1.00	0.00	C
ATOM	11593	HG2	GLU	X	938	58.436	46.584	112.053	1.00	0.00	H
ATOM	11594	HG3	GLU	X	938	59.416	45.446	111.027	1.00	0.00	H
ATOM	11595	CD	GLU	X	938	59.963	47.468	110.794	1.00	0.00	C
ATOM	11596	OE1	GLU	X	938	61.108	47.158	110.502	1.00	0.00	O
ATOM	11597	OE2	GLU	X	938	59.629	48.679	110.891	1.00	0.00	O
ATOM	11598	C	GLU	X	938	55.889	46.765	111.975	1.00	0.00	C
ATOM	11599	O	GLU	X	938	56.254	46.303	113.066	1.00	0.00	O
ATOM	11600	N	GLU	X	939	55.157	47.865	111.861	1.00	0.00	N
ATOM	11601	H	GLU	X	939	54.987	48.168	110.914	1.00	0.00	H
ATOM	11602	CA	GLU	X	939	54.727	48.626	112.981	1.00	0.00	C
ATOM	11603	HA	GLU	X	939	54.722	48.063	113.914	1.00	0.00	H
ATOM	11604	CB	GLU	X	939	55.671	49.808	113.269	1.00	0.00	C
ATOM	11605	HB2	GLU	X	939	56.685	49.429	113.131	1.00	0.00	H
ATOM	11606	HB3	GLU	X	939	55.526	50.649	112.592	1.00	0.00	H
ATOM	11607	CG	GLU	X	939	55.497	50.562	114.662	1.00	0.00	C
ATOM	11608	HG2	GLU	X	939	54.504	51.015	114.666	1.00	0.00	H
ATOM	11609	HG3	GLU	X	939	55.468	49.906	115.533	1.00	0.00	H
ATOM	11610	CD	GLU	X	939	56.533	51.783	114.863	1.00	0.00	C
ATOM	11611	OE1	GLU	X	939	57.569	51.889	114.153	1.00	0.00	O
ATOM	11612	OE2	GLU	X	939	56.267	52.608	115.777	1.00	0.00	O
ATOM	11613	C	GLU	X	939	53.231	49.027	112.837	1.00	0.00	C
ATOM	11614	O	GLU	X	939	52.807	49.770	111.938	1.00	0.00	O
ATOM	11615	N	LEU	X	940	52.460	48.710	113.832	1.00	0.00	N
ATOM	11616	H	LEU	X	940	52.869	48.212	114.609	1.00	0.00	H
ATOM	11617	CA	LEU	X	940	51.117	49.162	114.029	1.00	0.00	C
ATOM	11618	HA	LEU	X	940	50.759	49.778	113.205	1.00	0.00	H
ATOM	11619	CB	LEU	X	940	50.217	47.902	113.973	1.00	0.00	C
ATOM	11620	HB2	LEU	X	940	50.305	47.335	113.047	1.00	0.00	H
ATOM	11621	HB3	LEU	X	940	50.620	47.185	114.688	1.00	0.00	H
ATOM	11622	CG	LEU	X	940	48.671	47.980	114.146	1.00	0.00	C
ATOM	11623	HG	LEU	X	940	48.387	48.162	115.182	1.00	0.00	H
ATOM	11624	CD1	LEU	X	940	47.939	49.053	113.295	1.00	0.00	C
ATOM	11625	HD11	LEU	X	940	48.284	50.017	113.665	1.00	0.00	H
ATOM	11626	HD12	LEU	X	940	48.274	48.939	112.263	1.00	0.00	H
ATOM	11627	HD13	LEU	X	940	46.862	48.919	113.399	1.00	0.00	H
ATOM	11628	CD2	LEU	X	940	48.038	46.597	113.828	1.00	0.00	C
ATOM	11629	HD21	LEU	X	940	47.022	46.598	114.227	1.00	0.00	H
ATOM	11630	HD22	LEU	X	940	47.821	46.306	112.800	1.00	0.00	H
ATOM	11631	HD23	LEU	X	940	48.652	45.884	114.380	1.00	0.00	H
ATOM	11632	C	LEU	X	940	50.850	49.767	115.410	1.00	0.00	C
ATOM	11633	O	LEU	X	940	51.219	49.283	116.475	1.00	0.00	O
ATOM	11634	N	CYS	X	941	49.968	50.790	115.397	1.00	0.00	N
ATOM	11635	H	CYS	X	941	49.633	51.131	114.508	1.00	0.00	H
ATOM	11636	CA	CYS	X	941	49.670	51.657	116.556	1.00	0.00	C
ATOM	11637	HA	CYS	X	941	49.870	51.067	117.450	1.00	0.00	H
ATOM	11638	CB	CYS	X	941	50.596	52.848	116.478	1.00	0.00	C
ATOM	11639	HB2	CYS	X	941	51.595	52.412	116.429	1.00	0.00	H
ATOM	11640	HB3	CYS	X	941	50.495	53.367	115.525	1.00	0.00	H
ATOM	11641	SG	CYS	X	941	50.061	54.065	117.658	1.00	0.00	S
ATOM	11642	HG	CYS	X	941	50.805	55.070	117.192	1.00	0.00	H

ATOM	11643	C	CYS	X	941	48.126	52.039	116.578	1.00	0.00	C
ATOM	11644	O	CYS	X	941	47.576	52.506	115.626	1.00	0.00	O
ATOM	11645	N	LEU	X	942	47.420	51.739	117.675	1.00	0.00	N
ATOM	11646	H	LEU	X	942	47.956	51.334	118.430	1.00	0.00	H
ATOM	11647	CA	LEU	X	942	45.928	51.935	117.870	1.00	0.00	C
ATOM	11648	HA	LEU	X	942	45.464	52.556	117.104	1.00	0.00	H
ATOM	11649	CB	LEU	X	942	45.169	50.491	117.949	1.00	0.00	C
ATOM	11650	HB2	LEU	X	942	45.465	49.908	118.821	1.00	0.00	H
ATOM	11651	HB3	LEU	X	942	44.118	50.775	118.003	1.00	0.00	H
ATOM	11652	CG	LEU	X	942	45.239	49.566	116.752	1.00	0.00	C
ATOM	11653	HG	LEU	X	942	46.282	49.589	116.435	1.00	0.00	H
ATOM	11654	CD1	LEU	X	942	44.798	48.202	117.228	1.00	0.00	C
ATOM	11655	HD11	LEU	X	942	45.474	47.730	117.940	1.00	0.00	H
ATOM	11656	HD12	LEU	X	942	43.772	48.256	117.590	1.00	0.00	H
ATOM	11657	HD13	LEU	X	942	44.873	47.593	116.327	1.00	0.00	H
ATOM	11658	CD2	LEU	X	942	44.417	50.096	115.563	1.00	0.00	C
ATOM	11659	HD21	LEU	X	942	44.641	49.467	114.702	1.00	0.00	H
ATOM	11660	HD22	LEU	X	942	43.335	49.972	115.614	1.00	0.00	H
ATOM	11661	HD23	LEU	X	942	44.526	51.170	115.419	1.00	0.00	H
ATOM	11662	C	LEU	X	942	45.672	52.739	119.119	1.00	0.00	C
ATOM	11663	O	LEU	X	942	44.542	52.576	119.656	1.00	0.00	O
ATOM	11664	N	GLU	X	943	46.607	53.570	119.736	1.00	0.00	N
ATOM	11665	H	GLU	X	943	47.524	53.737	119.348	1.00	0.00	H
ATOM	11666	CA	GLU	X	943	46.467	54.113	121.083	1.00	0.00	C
ATOM	11667	HA	GLU	X	943	46.335	53.380	121.880	1.00	0.00	H
ATOM	11668	CB	GLU	X	943	47.640	54.992	121.411	1.00	0.00	C
ATOM	11669	HB2	GLU	X	943	47.608	55.930	120.856	1.00	0.00	H
ATOM	11670	HB3	GLU	X	943	47.495	55.363	122.426	1.00	0.00	H
ATOM	11671	CG	GLU	X	943	48.999	54.459	121.161	1.00	0.00	C
ATOM	11672	HG2	GLU	X	943	49.130	53.489	121.641	1.00	0.00	H
ATOM	11673	HG3	GLU	X	943	48.996	54.176	120.108	1.00	0.00	H
ATOM	11674	CD	GLU	X	943	50.077	55.603	121.253	1.00	0.00	C
ATOM	11675	OE1	GLU	X	943	51.242	55.390	120.786	1.00	0.00	O
ATOM	11676	OE2	GLU	X	943	49.825	56.556	121.962	1.00	0.00	O
ATOM	11677	C	GLU	X	943	45.189	54.964	121.140	1.00	0.00	C
ATOM	11678	O	GLU	X	943	44.611	55.450	120.176	1.00	0.00	O
ATOM	11679	N	GLU	X	944	44.793	55.201	122.386	1.00	0.00	N
ATOM	11680	H	GLU	X	944	45.382	54.844	123.127	1.00	0.00	H
ATOM	11681	CA	GLU	X	944	43.790	56.195	122.778	1.00	0.00	C
ATOM	11682	HA	GLU	X	944	43.797	56.266	123.866	1.00	0.00	H
ATOM	11683	CB	GLU	X	944	44.112	57.658	122.399	1.00	0.00	C
ATOM	11684	HB2	GLU	X	944	43.879	57.827	121.347	1.00	0.00	H
ATOM	11685	HB3	GLU	X	944	43.337	58.242	122.895	1.00	0.00	H
ATOM	11686	CG	GLU	X	944	45.527	58.116	122.588	1.00	0.00	C
ATOM	11687	HG2	GLU	X	944	46.193	57.591	121.905	1.00	0.00	H
ATOM	11688	HG3	GLU	X	944	45.454	59.175	122.338	1.00	0.00	H
ATOM	11689	CD	GLU	X	944	46.023	58.087	124.048	1.00	0.00	C
ATOM	11690	OE1	GLU	X	944	45.161	58.185	124.935	1.00	0.00	O
ATOM	11691	OE2	GLU	X	944	47.187	57.973	124.370	1.00	0.00	O
ATOM	11692	C	GLU	X	944	42.294	55.750	122.536	1.00	0.00	C
ATOM	11693	O	GLU	X	944	41.384	56.209	123.248	1.00	0.00	O
ATOM	11694	N	ASN	X	945	42.068	54.859	121.592	1.00	0.00	N
ATOM	11695	H	ASN	X	945	42.907	54.639	121.074	1.00	0.00	H
ATOM	11696	CA	ASN	X	945	40.806	54.235	121.069	1.00	0.00	C
ATOM	11697	HA	ASN	X	945	40.196	55.017	120.617	1.00	0.00	H
ATOM	11698	CB	ASN	X	945	41.167	53.366	119.831	1.00	0.00	C
ATOM	11699	HB2	ASN	X	945	41.903	52.608	120.098	1.00	0.00	H
ATOM	11700	HB3	ASN	X	945	40.312	52.752	119.549	1.00	0.00	H
ATOM	11701	CG	ASN	X	945	41.476	54.106	118.543	1.00	0.00	C
ATOM	11702	OD1	ASN	X	945	40.692	54.887	118.018	1.00	0.00	O
ATOM	11703	ND2	ASN	X	945	42.668	53.902	118.050	1.00	0.00	N
ATOM	11704	HD21	ASN	X	945	42.866	54.321	117.153	1.00	0.00	H
ATOM	11705	HD22	ASN	X	945	43.398	53.362	118.495	1.00	0.00	H
ATOM	11706	C	ASN	X	945	40.095	53.487	122.150	1.00	0.00	C
ATOM	11707	O	ASN	X	945	40.781	52.883	122.999	1.00	0.00	O
ATOM	11708	N	HIE	X	946	38.746	53.437	122.123	1.00	0.00	N
ATOM	11709	H	HIE	X	946	38.165	53.806	121.383	1.00	0.00	H
ATOM	11710	CA	HIE	X	946	37.933	52.514	123.035	1.00	0.00	C
ATOM	11711	HA	HIE	X	946	38.608	52.562	123.891	1.00	0.00	H
ATOM	11712	CB	HIE	X	946	36.562	53.096	123.397	1.00	0.00	C
ATOM	11713	HB2	HIE	X	946	36.006	52.402	124.026	1.00	0.00	H
ATOM	11714	HB3	HIE	X	946	36.808	53.938	124.042	1.00	0.00	H
ATOM	11715	CG	HIE	X	946	35.681	53.595	122.243	1.00	0.00	C
ATOM	11716	ND1	HIE	X	946	34.899	54.739	122.266	1.00	0.00	N
ATOM	11717	CE1	HIE	X	946	34.387	54.800	120.996	1.00	0.00	C
ATOM	11718	HE1	HIE	X	946	33.632	55.531	120.746	1.00	0.00	H
ATOM	11719	NE2	HIE	X	946	34.772	53.744	120.231	1.00	0.00	N
ATOM	11720	HE2	HIE	X	946	34.552	53.571	119.260	1.00	0.00	H
ATOM	11721	CD2	HIE	X	946	35.563	52.939	121.012	1.00	0.00	C
ATOM	11722	HD2	HIE	X	946	36.047	52.006	120.769	1.00	0.00	H
ATOM	11723	C	HIE	X	946	37.963	51.040	122.586	1.00	0.00	C
ATOM	11724	O	HIE	X	946	36.939	50.376	122.458	1.00	0.00	O

ATOM	11725	N	LEU	X	947	39.120	50.413	122.441	1.00	0.00	N
ATOM	11726	H	LEU	X	947	39.968	50.961	122.477	1.00	0.00	H
ATOM	11727	CA	LEU	X	947	39.238	48.979	122.139	1.00	0.00	C
ATOM	11728	HA	LEU	X	947	38.622	48.856	121.248	1.00	0.00	H
ATOM	11729	CB	LEU	X	947	40.708	48.626	121.786	1.00	0.00	C
ATOM	11730	HB2	LEU	X	947	41.208	48.662	122.754	1.00	0.00	H
ATOM	11731	HB3	LEU	X	947	40.644	47.600	121.427	1.00	0.00	H
ATOM	11732	CG	LEU	X	947	41.374	49.599	120.759	1.00	0.00	C
ATOM	11733	HG	LEU	X	947	41.560	50.578	121.197	1.00	0.00	H
ATOM	11734	CD1	LEU	X	947	42.752	49.140	120.485	1.00	0.00	C
ATOM	11735	HD11	LEU	X	947	42.861	48.389	119.704	1.00	0.00	H
ATOM	11736	HD12	LEU	X	947	43.204	50.008	120.004	1.00	0.00	H
ATOM	11737	HD13	LEU	X	947	43.326	48.938	121.390	1.00	0.00	H
ATOM	11738	CD2	LEU	X	947	40.595	49.675	119.367	1.00	0.00	C
ATOM	11739	HD21	LEU	X	947	40.626	48.742	118.803	1.00	0.00	H
ATOM	11740	HD22	LEU	X	947	39.528	49.825	119.537	1.00	0.00	H
ATOM	11741	HD23	LEU	X	947	40.996	50.546	118.850	1.00	0.00	H
ATOM	11742	C	LEU	X	947	38.786	48.072	123.369	1.00	0.00	C
ATOM	11743	O	LEU	X	947	38.183	46.980	123.124	1.00	0.00	O
ATOM	11744	N	GLN	X	948	39.067	48.511	124.588	1.00	0.00	N
ATOM	11745	H	GLN	X	948	39.529	49.398	124.721	1.00	0.00	H
ATOM	11746	CA	GLN	X	948	38.929	47.701	125.788	1.00	0.00	C
ATOM	11747	HA	GLN	X	948	39.396	48.332	126.542	1.00	0.00	H
ATOM	11748	CB	GLN	X	948	37.431	47.579	126.292	1.00	0.00	C
ATOM	11749	HB2	GLN	X	948	36.902	46.959	125.569	1.00	0.00	H
ATOM	11750	HB3	GLN	X	948	37.497	47.002	127.213	1.00	0.00	H
ATOM	11751	CG	GLN	X	948	36.841	48.956	126.449	1.00	0.00	C
ATOM	11752	HG2	GLN	X	948	37.322	49.447	127.294	1.00	0.00	H
ATOM	11753	HG3	GLN	X	948	37.004	49.660	125.633	1.00	0.00	H
ATOM	11754	CD	GLN	X	948	35.294	48.925	126.587	1.00	0.00	C
ATOM	11755	OE1	GLN	X	948	34.792	49.282	127.586	1.00	0.00	O
ATOM	11756	NE2	GLN	X	948	34.605	48.490	125.559	1.00	0.00	N
ATOM	11757	HE21	GLN	X	948	33.605	48.427	125.679	1.00	0.00	H
ATOM	11758	HE22	GLN	X	948	35.059	48.305	124.676	1.00	0.00	H
ATOM	11759	C	GLN	X	948	39.678	46.368	125.750	1.00	0.00	C
ATOM	11760	O	GLN	X	948	40.481	46.069	124.837	1.00	0.00	O
ATOM	11761	N	ASP	X	949	39.311	45.441	126.659	1.00	0.00	N
ATOM	11762	H	ASP	X	949	38.667	45.776	127.362	1.00	0.00	H
ATOM	11763	CA	ASP	X	949	39.743	44.049	126.693	1.00	0.00	C
ATOM	11764	HA	ASP	X	949	40.829	43.957	126.705	1.00	0.00	H
ATOM	11765	CB	ASP	X	949	39.403	43.331	128.016	1.00	0.00	C
ATOM	11766	HB2	ASP	X	949	38.328	43.209	128.152	1.00	0.00	H
ATOM	11767	HB3	ASP	X	949	39.920	42.373	127.946	1.00	0.00	H
ATOM	11768	CG	ASP	X	949	40.047	44.106	129.180	1.00	0.00	C
ATOM	11769	OD1	ASP	X	949	39.308	44.450	130.139	1.00	0.00	O
ATOM	11770	OD2	ASP	X	949	41.253	44.160	129.119	1.00	0.00	O
ATOM	11771	C	ASP	X	949	39.176	43.332	125.459	1.00	0.00	C
ATOM	11772	O	ASP	X	949	39.933	42.659	124.809	1.00	0.00	O
ATOM	11773	N	ALA	X	950	37.843	43.522	125.149	1.00	0.00	N
ATOM	11774	H	ALA	X	950	37.223	43.955	125.819	1.00	0.00	H
ATOM	11775	CA	ALA	X	950	37.194	43.059	123.840	1.00	0.00	C
ATOM	11776	HA	ALA	X	950	36.966	42.005	123.996	1.00	0.00	H
ATOM	11777	CB	ALA	X	950	35.800	43.747	123.732	1.00	0.00	C
ATOM	11778	HB1	ALA	X	950	35.126	43.633	124.580	1.00	0.00	H
ATOM	11779	HB2	ALA	X	950	35.931	44.812	123.542	1.00	0.00	H
ATOM	11780	HB3	ALA	X	950	35.343	43.366	122.819	1.00	0.00	H
ATOM	11781	C	ALA	X	950	37.985	43.215	122.558	1.00	0.00	C
ATOM	11782	O	ALA	X	950	37.966	42.234	121.724	1.00	0.00	O
ATOM	11783	N	GLY	X	951	38.718	44.312	122.342	1.00	0.00	N
ATOM	11784	H	GLY	X	951	38.573	45.015	123.053	1.00	0.00	H
ATOM	11785	CA	GLY	X	951	39.688	44.564	121.237	1.00	0.00	C
ATOM	11786	HA2	GLY	X	951	39.148	44.420	120.302	1.00	0.00	H
ATOM	11787	HA3	GLY	X	951	39.831	45.643	121.197	1.00	0.00	H
ATOM	11788	C	GLY	X	951	41.010	43.891	121.205	1.00	0.00	C
ATOM	11789	O	GLY	X	951	41.266	43.198	120.182	1.00	0.00	O
ATOM	11790	N	VAL	X	952	41.771	44.042	122.293	1.00	0.00	N
ATOM	11791	H	VAL	X	952	41.504	44.705	123.007	1.00	0.00	H
ATOM	11792	CA	VAL	X	952	42.962	43.347	122.384	1.00	0.00	C
ATOM	11793	HA	VAL	X	952	43.510	43.655	121.493	1.00	0.00	H
ATOM	11794	CB	VAL	X	952	43.802	43.727	123.609	1.00	0.00	C
ATOM	11795	HB	VAL	X	952	43.847	44.814	123.549	1.00	0.00	H
ATOM	11796	CG1	VAL	X	952	43.153	43.349	124.972	1.00	0.00	C
ATOM	11797	HG11	VAL	X	952	43.912	43.579	125.718	1.00	0.00	H
ATOM	11798	HG12	VAL	X	952	42.282	43.992	125.099	1.00	0.00	H
ATOM	11799	HG13	VAL	X	952	42.776	42.333	125.088	1.00	0.00	H
ATOM	11800	CG2	VAL	X	952	45.178	43.106	123.545	1.00	0.00	C
ATOM	11801	HG21	VAL	X	952	45.895	43.625	124.182	1.00	0.00	H
ATOM	11802	HG22	VAL	X	952	45.220	42.064	123.860	1.00	0.00	H
ATOM	11803	HG23	VAL	X	952	45.571	43.233	122.537	1.00	0.00	H
ATOM	11804	C	VAL	X	952	42.819	41.822	122.195	1.00	0.00	C
ATOM	11805	O	VAL	X	952	43.602	41.209	121.538	1.00	0.00	O
ATOM	11806	N	CYS	X	953	41.676	41.247	122.622	1.00	0.00	N

ATOM	11807	H	CYS	X	953	41.103	41.814	123.229	1.00	0.00	H
ATOM	11808	CA	CYS	X	953	41.468	39.803	122.529	1.00	0.00	C
ATOM	11809	HA	CYS	X	953	42.431	39.381	122.818	1.00	0.00	H
ATOM	11810	CB	CYS	X	953	40.276	39.403	123.369	1.00	0.00	C
ATOM	11811	HB2	CYS	X	953	39.445	40.044	123.077	1.00	0.00	H
ATOM	11812	HB3	CYS	X	953	40.076	38.336	123.270	1.00	0.00	H
ATOM	11813	SG	CYS	X	953	40.722	39.657	125.117	1.00	0.00	S
ATOM	11814	HG	CYS	X	953	40.593	40.986	125.181	1.00	0.00	H
ATOM	11815	C	CYS	X	953	41.155	39.395	121.063	1.00	0.00	C
ATOM	11816	O	CYS	X	953	41.699	38.474	120.519	1.00	0.00	O
ATOM	11817	N	SER	X	954	40.379	40.283	120.343	1.00	0.00	N
ATOM	11818	H	SER	X	954	40.099	41.112	120.846	1.00	0.00	H
ATOM	11819	CA	SER	X	954	40.300	40.159	118.841	1.00	0.00	C
ATOM	11820	HA	SER	X	954	39.891	39.191	118.557	1.00	0.00	H
ATOM	11821	CB	SER	X	954	39.366	41.163	118.124	1.00	0.00	C
ATOM	11822	HB2	SER	X	954	39.920	42.050	117.813	1.00	0.00	H
ATOM	11823	HB3	SER	X	954	38.868	40.734	117.256	1.00	0.00	H
ATOM	11824	OG	SER	X	954	38.246	41.603	118.955	1.00	0.00	O
ATOM	11825	HG	SER	X	954	38.576	41.991	119.768	1.00	0.00	H
ATOM	11826	C	SER	X	954	41.678	40.304	118.200	1.00	0.00	C
ATOM	11827	O	SER	X	954	41.921	39.565	117.220	1.00	0.00	O
ATOM	11828	N	LEU	X	955	42.533	41.248	118.575	1.00	0.00	N
ATOM	11829	H	LEU	X	955	42.204	41.878	119.293	1.00	0.00	H
ATOM	11830	CA	LEU	X	955	43.847	41.464	117.917	1.00	0.00	C
ATOM	11831	HA	LEU	X	955	43.730	41.653	116.851	1.00	0.00	H
ATOM	11832	CB	LEU	X	955	44.331	42.790	118.521	1.00	0.00	C
ATOM	11833	HB2	LEU	X	955	43.541	43.487	118.799	1.00	0.00	H
ATOM	11834	HB3	LEU	X	955	44.758	42.627	119.511	1.00	0.00	H
ATOM	11835	CG	LEU	X	955	45.236	43.548	117.550	1.00	0.00	C
ATOM	11836	HG	LEU	X	955	45.939	42.824	117.139	1.00	0.00	H
ATOM	11837	CD1	LEU	X	955	44.436	44.367	116.537	1.00	0.00	C
ATOM	11838	HD11	LEU	X	955	45.204	44.815	115.908	1.00	0.00	H
ATOM	11839	HD12	LEU	X	955	43.848	43.688	115.919	1.00	0.00	H
ATOM	11840	HD13	LEU	X	955	43.963	45.216	117.030	1.00	0.00	H
ATOM	11841	CD2	LEU	X	955	46.105	44.430	118.475	1.00	0.00	C
ATOM	11842	HD21	LEU	X	955	46.817	45.087	117.975	1.00	0.00	H
ATOM	11843	HD22	LEU	X	955	45.423	45.004	119.100	1.00	0.00	H
ATOM	11844	HD23	LEU	X	955	46.680	43.845	119.192	1.00	0.00	H
ATOM	11845	C	LEU	X	955	44.765	40.241	118.093	1.00	0.00	C
ATOM	11846	O	LEU	X	955	45.338	39.669	117.162	1.00	0.00	O
ATOM	11847	N	ALA	X	956	44.902	39.691	119.342	1.00	0.00	N
ATOM	11848	H	ALA	X	956	44.455	40.185	120.101	1.00	0.00	H
ATOM	11849	CA	ALA	X	956	45.730	38.553	119.720	1.00	0.00	C
ATOM	11850	HA	ALA	X	956	46.793	38.735	119.568	1.00	0.00	H
ATOM	11851	CB	ALA	X	956	45.390	38.311	121.236	1.00	0.00	C
ATOM	11852	HB1	ALA	X	956	45.469	39.250	121.783	1.00	0.00	H
ATOM	11853	HB2	ALA	X	956	44.353	37.976	121.239	1.00	0.00	H
ATOM	11854	HB3	ALA	X	956	46.014	37.563	121.725	1.00	0.00	H
ATOM	11855	C	ALA	X	956	45.341	37.265	118.960	1.00	0.00	C
ATOM	11856	O	ALA	X	956	46.250	36.614	118.515	1.00	0.00	O
ATOM	11857	N	GLU	X	957	44.059	37.006	118.735	1.00	0.00	N
ATOM	11858	H	GLU	X	957	43.372	37.698	118.998	1.00	0.00	H
ATOM	11859	CA	GLU	X	957	43.618	35.892	117.815	1.00	0.00	C
ATOM	11860	HA	GLU	X	957	43.964	34.960	118.264	1.00	0.00	H
ATOM	11861	CB	GLU	X	957	42.006	35.861	117.893	1.00	0.00	C
ATOM	11862	HB2	GLU	X	957	41.590	35.928	118.898	1.00	0.00	H
ATOM	11863	HB3	GLU	X	957	41.658	36.725	117.326	1.00	0.00	H
ATOM	11864	CG	GLU	X	957	41.349	34.621	117.211	1.00	0.00	C
ATOM	11865	HG2	GLU	X	957	40.272	34.580	117.376	1.00	0.00	H
ATOM	11866	HG3	GLU	X	957	41.482	34.897	116.165	1.00	0.00	H
ATOM	11867	CD	GLU	X	957	42.035	33.274	117.598	1.00	0.00	C
ATOM	11868	OE1	GLU	X	957	42.302	32.414	116.769	1.00	0.00	O
ATOM	11869	OE2	GLU	X	957	42.259	33.144	118.845	1.00	0.00	O
ATOM	11870	C	GLU	X	957	44.103	36.064	116.358	1.00	0.00	C
ATOM	11871	O	GLU	X	957	44.072	35.105	115.614	1.00	0.00	O
ATOM	11872	N	GLY	X	958	44.450	37.255	115.828	1.00	0.00	N
ATOM	11873	H	GLY	X	958	44.329	38.053	116.434	1.00	0.00	H
ATOM	11874	CA	GLY	X	958	45.225	37.476	114.549	1.00	0.00	C
ATOM	11875	HA2	GLY	X	958	44.852	36.744	113.834	1.00	0.00	H
ATOM	11876	HA3	GLY	X	958	45.029	38.467	114.136	1.00	0.00	H
ATOM	11877	C	GLY	X	958	46.722	37.356	114.843	1.00	0.00	C
ATOM	11878	O	GLY	X	958	47.442	36.617	114.189	1.00	0.00	O
ATOM	11879	N	LEU	X	959	47.236	37.803	115.983	1.00	0.00	N
ATOM	11880	H	LEU	X	959	46.638	38.450	116.475	1.00	0.00	H
ATOM	11881	CA	LEU	X	959	48.679	37.873	116.201	1.00	0.00	C
ATOM	11882	HA	LEU	X	959	49.069	38.479	115.382	1.00	0.00	H
ATOM	11883	CB	LEU	X	959	48.908	38.638	117.505	1.00	0.00	C
ATOM	11884	HB2	LEU	X	959	48.216	39.478	117.564	1.00	0.00	H
ATOM	11885	HB3	LEU	X	959	48.562	37.913	118.241	1.00	0.00	H
ATOM	11886	CG	LEU	X	959	50.357	39.154	117.882	1.00	0.00	C
ATOM	11887	HG	LEU	X	959	50.986	38.272	118.010	1.00	0.00	H
ATOM	11888	CD1	LEU	X	959	50.863	40.268	116.945	1.00	0.00	C

ATOM	11889	HD11	LEU	X	959	50.135	41.031	116.670	1.00	0.00	H
ATOM	11890	HD12	LEU	X	959	51.749	40.739	117.371	1.00	0.00	H
ATOM	11891	HD13	LEU	X	959	51.275	39.822	116.040	1.00	0.00	H
ATOM	11892	CD2	LEU	X	959	50.392	39.758	119.311	1.00	0.00	C
ATOM	11893	HD21	LEU	X	959	51.433	39.928	119.580	1.00	0.00	H
ATOM	11894	HD22	LEU	X	959	49.763	40.649	119.277	1.00	0.00	H
ATOM	11895	HD23	LEU	X	959	49.808	39.117	119.973	1.00	0.00	H
ATOM	11896	C	LEU	X	959	49.492	36.585	116.202	1.00	0.00	C
ATOM	11897	O	LEU	X	959	50.669	36.562	115.829	1.00	0.00	O
ATOM	11898	N	LYS	X	960	48.814	35.429	116.433	1.00	0.00	N
ATOM	11899	H	LYS	X	960	47.829	35.641	116.503	1.00	0.00	H
ATOM	11900	CA	LYS	X	960	49.261	34.060	116.419	1.00	0.00	C
ATOM	11901	HA	LYS	X	960	50.277	34.134	116.808	1.00	0.00	H
ATOM	11902	CB	LYS	X	960	48.343	33.178	117.445	1.00	0.00	C
ATOM	11903	HB2	LYS	X	960	48.574	32.114	117.380	1.00	0.00	H
ATOM	11904	HB3	LYS	X	960	48.517	33.462	118.482	1.00	0.00	H
ATOM	11905	CG	LYS	X	960	46.773	33.349	117.147	1.00	0.00	C
ATOM	11906	HG2	LYS	X	960	46.461	34.388	117.033	1.00	0.00	H
ATOM	11907	HG3	LYS	X	960	46.594	32.900	116.170	1.00	0.00	H
ATOM	11908	CD	LYS	X	960	45.850	32.745	118.111	1.00	0.00	C
ATOM	11909	HD2	LYS	X	960	44.911	32.715	117.561	1.00	0.00	H
ATOM	11910	HD3	LYS	X	960	46.118	31.703	118.286	1.00	0.00	H
ATOM	11911	CE	LYS	X	960	45.713	33.465	119.460	1.00	0.00	C
ATOM	11912	HE2	LYS	X	960	46.633	33.331	120.030	1.00	0.00	H
ATOM	11913	HE3	LYS	X	960	45.543	34.530	119.299	1.00	0.00	H
ATOM	11914	NZ	LYS	X	960	44.498	33.057	120.205	1.00	0.00	N
ATOM	11915	HZ1	LYS	X	960	44.523	32.085	120.475	1.00	0.00	H
ATOM	11916	HZ2	LYS	X	960	44.412	33.479	121.118	1.00	0.00	H
ATOM	11917	HZ3	LYS	X	960	43.609	33.203	119.749	1.00	0.00	H
ATOM	11918	C	LYS	X	960	49.339	33.432	114.931	1.00	0.00	C
ATOM	11919	O	LYS	X	960	49.496	32.234	114.780	1.00	0.00	O
ATOM	11920	N	ARG	X	961	49.219	34.266	113.918	1.00	0.00	N
ATOM	11921	H	ARG	X	961	48.845	35.172	114.158	1.00	0.00	H
ATOM	11922	CA	ARG	X	961	49.332	33.980	112.434	1.00	0.00	C
ATOM	11923	HA	ARG	X	961	50.033	33.175	112.213	1.00	0.00	H
ATOM	11924	CB	ARG	X	961	47.936	33.479	111.948	1.00	0.00	C
ATOM	11925	HB2	ARG	X	961	47.234	34.294	112.130	1.00	0.00	H
ATOM	11926	HB3	ARG	X	961	47.942	33.446	110.859	1.00	0.00	H
ATOM	11927	CG	ARG	X	961	47.359	32.236	112.609	1.00	0.00	C
ATOM	11928	HG2	ARG	X	961	48.139	31.502	112.409	1.00	0.00	H
ATOM	11929	HG3	ARG	X	961	47.220	32.384	113.680	1.00	0.00	H
ATOM	11930	CD	ARG	X	961	46.056	31.751	111.918	1.00	0.00	C
ATOM	11931	HD2	ARG	X	961	46.244	31.701	110.843	1.00	0.00	H
ATOM	11932	HD3	ARG	X	961	45.827	30.806	112.411	1.00	0.00	H
ATOM	11933	NE	ARG	X	961	44.849	32.551	112.114	1.00	0.00	N
ATOM	11934	HE	ARG	X	961	44.554	33.135	111.344	1.00	0.00	H
ATOM	11935	CZ	ARG	X	961	44.164	32.947	113.170	1.00	0.00	C
ATOM	11936	NH1	ARG	X	961	44.219	32.418	114.341	1.00	0.00	N
ATOM	11937	HH11	ARG	X	961	44.728	31.559	114.489	1.00	0.00	H
ATOM	11938	HH12	ARG	X	961	43.534	32.756	115.002	1.00	0.00	H
ATOM	11939	NH2	ARG	X	961	43.223	33.857	113.100	1.00	0.00	N
ATOM	11940	HH21	ARG	X	961	43.051	34.278	112.198	1.00	0.00	H
ATOM	11941	HH22	ARG	X	961	42.669	34.070	113.918	1.00	0.00	H
ATOM	11942	C	ARG	X	961	49.823	35.176	111.676	1.00	0.00	C
ATOM	11943	O	ARG	X	961	49.711	35.144	110.442	1.00	0.00	O
ATOM	11944	N	ASN	X	962	50.429	36.169	112.424	1.00	0.00	N
ATOM	11945	H	ASN	X	962	50.476	36.025	113.422	1.00	0.00	H
ATOM	11946	CA	ASN	X	962	51.359	37.054	111.732	1.00	0.00	C
ATOM	11947	HA	ASN	X	962	51.126	37.130	110.670	1.00	0.00	H
ATOM	11948	CB	ASN	X	962	51.083	38.444	112.338	1.00	0.00	C
ATOM	11949	HB2	ASN	X	962	50.018	38.677	112.288	1.00	0.00	H
ATOM	11950	HB3	ASN	X	962	51.260	38.520	113.411	1.00	0.00	H
ATOM	11951	CG	ASN	X	962	51.831	39.561	111.709	1.00	0.00	C
ATOM	11952	OD1	ASN	X	962	52.878	40.057	112.241	1.00	0.00	O
ATOM	11953	ND2	ASN	X	962	51.488	39.854	110.466	1.00	0.00	N
ATOM	11954	HD21	ASN	X	962	52.195	40.435	110.037	1.00	0.00	H
ATOM	11955	HD22	ASN	X	962	50.675	39.464	110.014	1.00	0.00	H
ATOM	11956	C	ASN	X	962	52.783	36.631	111.987	1.00	0.00	C
ATOM	11957	O	ASN	X	962	53.164	35.885	112.911	1.00	0.00	O
ATOM	11958	N	SER	X	963	53.675	37.144	111.085	1.00	0.00	N
ATOM	11959	H	SER	X	963	53.350	37.786	110.377	1.00	0.00	H
ATOM	11960	CA	SER	X	963	55.139	37.075	111.270	1.00	0.00	C
ATOM	11961	HA	SER	X	963	55.400	37.209	112.320	1.00	0.00	H
ATOM	11962	CB	SER	X	963	55.832	35.755	110.792	1.00	0.00	C
ATOM	11963	HB2	SER	X	963	56.789	35.740	111.311	1.00	0.00	H
ATOM	11964	HB3	SER	X	963	55.233	34.891	111.079	1.00	0.00	H
ATOM	11965	OG	SER	X	963	56.103	35.679	109.423	1.00	0.00	O
ATOM	11966	HG	SER	X	963	56.259	36.576	109.121	1.00	0.00	H
ATOM	11967	C	SER	X	963	55.846	38.315	110.724	1.00	0.00	C
ATOM	11968	O	SER	X	963	56.994	38.208	110.135	1.00	0.00	O
ATOM	11969	N	SER	X	964	55.260	39.481	110.736	1.00	0.00	N
ATOM	11970	H	SER	X	964	54.440	39.508	111.327	1.00	0.00	H

ATOM	11971	CA	SER	X	964	55.801	40.788	110.209	1.00	0.00	C
ATOM	11972	HA	SER	X	964	56.796	40.676	109.780	1.00	0.00	H
ATOM	11973	CB	SER	X	964	54.996	41.199	109.014	1.00	0.00	C
ATOM	11974	HB2	SER	X	964	55.423	42.101	108.575	1.00	0.00	H
ATOM	11975	HB3	SER	X	964	55.137	40.427	108.257	1.00	0.00	H
ATOM	11976	OG	SER	X	964	53.669	41.404	109.520	1.00	0.00	O
ATOM	11977	HG	SER	X	964	53.520	42.347	109.621	1.00	0.00	H
ATOM	11978	C	SER	X	964	55.940	41.932	111.130	1.00	0.00	C
ATOM	11979	O	SER	X	964	56.940	42.633	111.108	1.00	0.00	O
ATOM	11980	N	LEU	X	965	55.011	42.209	112.118	1.00	0.00	N
ATOM	11981	H	LEU	X	965	54.124	41.763	111.932	1.00	0.00	H
ATOM	11982	CA	LEU	X	965	55.173	43.231	113.197	1.00	0.00	C
ATOM	11983	HA	LEU	X	965	55.390	44.194	112.736	1.00	0.00	H
ATOM	11984	CB	LEU	X	965	53.951	43.420	114.108	1.00	0.00	C
ATOM	11985	HB2	LEU	X	965	53.747	42.504	114.662	1.00	0.00	H
ATOM	11986	HB3	LEU	X	965	54.164	44.127	114.910	1.00	0.00	H
ATOM	11987	CG	LEU	X	965	52.507	43.639	113.501	1.00	0.00	C
ATOM	11988	HG	LEU	X	965	52.317	42.869	112.752	1.00	0.00	H
ATOM	11989	CD1	LEU	X	965	51.581	43.259	114.657	1.00	0.00	C
ATOM	11990	HD11	LEU	X	965	51.785	42.223	114.927	1.00	0.00	H
ATOM	11991	HD12	LEU	X	965	51.764	43.951	115.479	1.00	0.00	H
ATOM	11992	HD13	LEU	X	965	50.611	43.458	114.200	1.00	0.00	H
ATOM	11993	CD2	LEU	X	965	52.181	45.029	112.982	1.00	0.00	C
ATOM	11994	HD21	LEU	X	965	51.213	45.185	112.509	1.00	0.00	H
ATOM	11995	HD22	LEU	X	965	52.290	45.672	113.855	1.00	0.00	H
ATOM	11996	HD23	LEU	X	965	52.959	45.114	112.223	1.00	0.00	H
ATOM	11997	C	LEU	X	965	56.394	42.898	114.084	1.00	0.00	C
ATOM	11998	O	LEU	X	965	56.314	41.893	114.785	1.00	0.00	O
ATOM	11999	N	LYS	X	966	57.342	43.834	114.160	1.00	0.00	N
ATOM	12000	H	LYS	X	966	57.262	44.699	113.645	1.00	0.00	H
ATOM	12001	CA	LYS	X	966	58.413	43.881	115.155	1.00	0.00	C
ATOM	12002	HA	LYS	X	966	58.540	42.898	115.604	1.00	0.00	H
ATOM	12003	CB	LYS	X	966	59.726	44.406	114.530	1.00	0.00	C
ATOM	12004	HB2	LYS	X	966	59.615	45.392	114.077	1.00	0.00	H
ATOM	12005	HB3	LYS	X	966	60.435	44.471	115.355	1.00	0.00	H
ATOM	12006	CG	LYS	X	966	60.176	43.330	113.531	1.00	0.00	C
ATOM	12007	HG2	LYS	X	966	60.288	42.404	114.096	1.00	0.00	H
ATOM	12008	HG3	LYS	X	966	59.429	43.168	112.755	1.00	0.00	H
ATOM	12009	CD	LYS	X	966	61.518	43.681	112.765	1.00	0.00	C
ATOM	12010	HD2	LYS	X	966	61.413	44.700	112.393	1.00	0.00	H
ATOM	12011	HD3	LYS	X	966	62.363	43.864	113.430	1.00	0.00	H
ATOM	12012	CE	LYS	X	966	61.911	42.668	111.670	1.00	0.00	C
ATOM	12013	HE2	LYS	X	966	60.976	42.376	111.191	1.00	0.00	H
ATOM	12014	HE3	LYS	X	966	62.706	43.056	111.032	1.00	0.00	H
ATOM	12015	NZ	LYS	X	966	62.558	41.532	112.336	1.00	0.00	N
ATOM	12016	HZ1	LYS	X	966	63.354	41.759	112.913	1.00	0.00	H
ATOM	12017	HZ2	LYS	X	966	61.988	41.070	113.030	1.00	0.00	H
ATOM	12018	HZ3	LYS	X	966	62.865	40.855	111.651	1.00	0.00	H
ATOM	12019	C	LYS	X	966	57.848	44.726	116.330	1.00	0.00	C
ATOM	12020	O	LYS	X	966	58.369	44.487	117.450	1.00	0.00	O
ATOM	12021	N	VAL	X	967	56.930	45.752	116.134	1.00	0.00	N
ATOM	12022	H	VAL	X	967	56.587	45.890	115.194	1.00	0.00	H
ATOM	12023	CA	VAL	X	967	56.379	46.631	117.167	1.00	0.00	C
ATOM	12024	HA	VAL	X	967	56.559	46.164	118.136	1.00	0.00	H
ATOM	12025	CB	VAL	X	967	57.032	48.026	117.178	1.00	0.00	C
ATOM	12026	HB	VAL	X	967	57.003	48.552	116.223	1.00	0.00	H
ATOM	12027	CG1	VAL	X	967	56.527	48.995	118.221	1.00	0.00	C
ATOM	12028	HG11	VAL	X	967	56.712	48.570	119.207	1.00	0.00	H
ATOM	12029	HG12	VAL	X	967	57.025	49.965	118.241	1.00	0.00	H
ATOM	12030	HG13	VAL	X	967	55.447	49.146	118.199	1.00	0.00	H
ATOM	12031	CG2	VAL	X	967	58.468	47.855	117.540	1.00	0.00	C
ATOM	12032	HG21	VAL	X	967	59.047	47.529	116.676	1.00	0.00	H
ATOM	12033	HG22	VAL	X	967	58.870	48.850	117.735	1.00	0.00	H
ATOM	12034	HG23	VAL	X	967	58.730	47.326	118.456	1.00	0.00	H
ATOM	12035	C	VAL	X	967	54.854	46.725	117.059	1.00	0.00	C
ATOM	12036	O	VAL	X	967	54.312	47.060	116.016	1.00	0.00	O
ATOM	12037	N	LEU	X	968	54.198	46.651	118.231	1.00	0.00	N
ATOM	12038	H	LEU	X	968	54.742	46.474	119.063	1.00	0.00	H
ATOM	12039	CA	LEU	X	968	52.772	46.764	118.406	1.00	0.00	C
ATOM	12040	HA	LEU	X	968	52.389	47.123	117.450	1.00	0.00	H
ATOM	12041	CB	LEU	X	968	52.299	45.336	118.514	1.00	0.00	C
ATOM	12042	HB2	LEU	X	968	52.599	44.814	117.604	1.00	0.00	H
ATOM	12043	HB3	LEU	X	968	52.879	44.798	119.264	1.00	0.00	H
ATOM	12044	CG	LEU	X	968	50.793	45.168	118.743	1.00	0.00	C
ATOM	12045	HG	LEU	X	968	50.469	45.669	119.655	1.00	0.00	H
ATOM	12046	CD1	LEU	X	968	49.934	45.645	117.562	1.00	0.00	C
ATOM	12047	HD11	LEU	X	968	49.070	44.989	117.454	1.00	0.00	H
ATOM	12048	HD12	LEU	X	968	49.661	46.697	117.649	1.00	0.00	H
ATOM	12049	HD13	LEU	X	968	50.543	45.500	116.670	1.00	0.00	H
ATOM	12050	CD2	LEU	X	968	50.449	43.700	118.923	1.00	0.00	C
ATOM	12051	HD21	LEU	X	968	51.064	43.218	119.683	1.00	0.00	H
ATOM	12052	HD22	LEU	X	968	49.467	43.680	119.398	1.00	0.00	H

ATOM	12053	HD23	LEU	X	968	50.353	43.168	117.977	1.00	0.00	H
ATOM	12054	C	LEU	X	968	52.362	47.695	119.497	1.00	0.00	C
ATOM	12055	O	LEU	X	968	52.719	47.589	120.655	1.00	0.00	O
ATOM	12056	N	LYS	X	969	51.637	48.724	119.088	1.00	0.00	N
ATOM	12057	H	LYS	X	969	51.429	48.767	118.102	1.00	0.00	H
ATOM	12058	CA	LYS	X	969	51.322	49.851	119.959	1.00	0.00	C
ATOM	12059	HA	LYS	X	969	51.798	49.658	120.921	1.00	0.00	H
ATOM	12060	CB	LYS	X	969	51.862	51.175	119.410	1.00	0.00	C
ATOM	12061	HB2	LYS	X	969	51.807	51.295	118.328	1.00	0.00	H
ATOM	12062	HB3	LYS	X	969	51.301	52.049	119.744	1.00	0.00	H
ATOM	12063	CG	LYS	X	969	53.366	51.250	119.733	1.00	0.00	C
ATOM	12064	HG2	LYS	X	969	53.444	51.799	120.673	1.00	0.00	H
ATOM	12065	HG3	LYS	X	969	53.811	50.273	119.922	1.00	0.00	H
ATOM	12066	CD	LYS	X	969	54.248	51.941	118.737	1.00	0.00	C
ATOM	12067	HD2	LYS	X	969	54.388	51.385	117.810	1.00	0.00	H
ATOM	12068	HD3	LYS	X	969	53.804	52.901	118.468	1.00	0.00	H
ATOM	12069	CE	LYS	X	969	55.615	52.283	119.363	1.00	0.00	C
ATOM	12070	HE2	LYS	X	969	55.443	52.765	120.325	1.00	0.00	H
ATOM	12071	HE3	LYS	X	969	56.279	51.425	119.466	1.00	0.00	H
ATOM	12072	NZ	LYS	X	969	56.298	53.144	118.455	1.00	0.00	N
ATOM	12073	HZ1	LYS	X	969	55.807	54.027	118.436	1.00	0.00	H
ATOM	12074	HZ2	LYS	X	969	57.238	53.297	118.791	1.00	0.00	H
ATOM	12075	HZ3	LYS	X	969	56.301	52.706	117.544	1.00	0.00	H
ATOM	12076	C	LYS	X	969	49.892	49.986	120.516	1.00	0.00	C
ATOM	12077	O	LYS	X	969	49.040	50.368	119.690	1.00	0.00	O
ATOM	12078	N	LEU	X	970	49.587	49.667	121.762	1.00	0.00	N
ATOM	12079	H	LEU	X	970	50.322	49.145	122.218	1.00	0.00	H
ATOM	12080	CA	LEU	X	970	48.249	49.598	122.306	1.00	0.00	C
ATOM	12081	HA	LEU	X	970	47.512	50.070	121.655	1.00	0.00	H
ATOM	12082	CB	LEU	X	970	47.808	48.144	122.599	1.00	0.00	C
ATOM	12083	HB2	LEU	X	970	48.480	47.720	123.345	1.00	0.00	H
ATOM	12084	HB3	LEU	X	970	46.840	48.092	123.098	1.00	0.00	H
ATOM	12085	CG	LEU	X	970	47.745	47.235	121.335	1.00	0.00	C
ATOM	12086	HG	LEU	X	970	48.727	47.309	120.868	1.00	0.00	H
ATOM	12087	CD1	LEU	X	970	47.636	45.768	121.688	1.00	0.00	C
ATOM	12088	HD11	LEU	X	970	46.647	45.614	122.117	1.00	0.00	H
ATOM	12089	HD12	LEU	X	970	47.815	45.103	120.842	1.00	0.00	H
ATOM	12090	HD13	LEU	X	970	48.350	45.469	122.455	1.00	0.00	H
ATOM	12091	CD2	LEU	X	970	46.791	47.539	120.259	1.00	0.00	C
ATOM	12092	HD21	LEU	X	970	45.786	47.175	120.469	1.00	0.00	H
ATOM	12093	HD22	LEU	X	970	46.654	48.600	120.043	1.00	0.00	H
ATOM	12094	HD23	LEU	X	970	47.100	46.987	119.372	1.00	0.00	H
ATOM	12095	C	LEU	X	970	48.084	50.422	123.590	1.00	0.00	C
ATOM	12096	O	LEU	X	970	47.493	50.056	124.594	1.00	0.00	O
ATOM	12097	N	SER	X	971	48.699	51.626	123.672	1.00	0.00	N
ATOM	12098	H	SER	X	971	49.126	52.037	122.854	1.00	0.00	H
ATOM	12099	CA	SER	X	971	48.606	52.481	124.801	1.00	0.00	C
ATOM	12100	HA	SER	X	971	48.824	51.834	125.651	1.00	0.00	H
ATOM	12101	CB	SER	X	971	49.775	53.420	124.870	1.00	0.00	C
ATOM	12102	HB2	SER	X	971	49.717	54.075	124.001	1.00	0.00	H
ATOM	12103	HB3	SER	X	971	49.714	54.123	125.701	1.00	0.00	H
ATOM	12104	OG	SER	X	971	51.024	52.760	124.926	1.00	0.00	O
ATOM	12105	HG	SER	X	971	51.238	52.410	124.058	1.00	0.00	H
ATOM	12106	C	SER	X	971	47.282	53.222	125.046	1.00	0.00	C
ATOM	12107	O	SER	X	971	46.551	53.580	124.152	1.00	0.00	O
ATOM	12108	N	ASN	X	972	46.887	53.377	126.309	1.00	0.00	N
ATOM	12109	H	ASN	X	972	47.632	53.218	126.971	1.00	0.00	H
ATOM	12110	CA	ASN	X	972	45.654	53.992	126.875	1.00	0.00	C
ATOM	12111	HA	ASN	X	972	45.619	53.600	127.891	1.00	0.00	H
ATOM	12112	CB	ASN	X	972	45.780	55.540	126.906	1.00	0.00	C
ATOM	12113	HB2	ASN	X	972	46.723	55.622	127.445	1.00	0.00	H
ATOM	12114	HB3	ASN	X	972	45.691	55.924	125.890	1.00	0.00	H
ATOM	12115	CG	ASN	X	972	44.763	56.267	127.854	1.00	0.00	C
ATOM	12116	OD1	ASN	X	972	44.553	55.960	129.030	1.00	0.00	O
ATOM	12117	ND2	ASN	X	972	44.039	57.265	127.359	1.00	0.00	N
ATOM	12118	HD21	ASN	X	972	43.297	57.674	127.910	1.00	0.00	H
ATOM	12119	HD22	ASN	X	972	44.162	57.517	126.388	1.00	0.00	H
ATOM	12120	C	ASN	X	972	44.385	53.483	126.303	1.00	0.00	C
ATOM	12121	O	ASN	X	972	43.411	54.278	126.126	1.00	0.00	O
ATOM	12122	N	ASN	X	973	44.267	52.239	125.842	1.00	0.00	N
ATOM	12123	H	ASN	X	973	45.035	51.595	125.962	1.00	0.00	H
ATOM	12124	CA	ASN	X	973	43.064	51.641	125.275	1.00	0.00	C
ATOM	12125	HA	ASN	X	973	42.492	52.402	124.744	1.00	0.00	H
ATOM	12126	CB	ASN	X	973	43.607	50.684	124.232	1.00	0.00	C
ATOM	12127	HB2	ASN	X	973	44.349	49.990	124.624	1.00	0.00	H
ATOM	12128	HB3	ASN	X	973	42.716	50.175	123.864	1.00	0.00	H
ATOM	12129	CG	ASN	X	973	44.215	51.209	122.979	1.00	0.00	C
ATOM	12130	OD1	ASN	X	973	45.208	50.769	122.470	1.00	0.00	O
ATOM	12131	ND2	ASN	X	973	43.598	52.277	122.430	1.00	0.00	N
ATOM	12132	HD21	ASN	X	973	43.906	52.546	121.506	1.00	0.00	H
ATOM	12133	HD22	ASN	X	973	42.732	52.581	122.848	1.00	0.00	H
ATOM	12134	C	ASN	X	973	42.104	51.040	126.289	1.00	0.00	C

ATOM	12135	O	ASN	X	973	41.278	50.229	125.882	1.00	0.00	O
ATOM	12136	N	CYS	X	974	42.266	51.433	127.573	1.00	0.00	N
ATOM	12137	H	CYS	X	974	43.031	52.049	127.811	1.00	0.00	H
ATOM	12138	CA	CYS	X	974	41.459	50.892	128.674	1.00	0.00	C
ATOM	12139	HA	CYS	X	974	41.820	51.219	129.650	1.00	0.00	H
ATOM	12140	CB	CYS	X	974	40.009	51.471	128.649	1.00	0.00	C
ATOM	12141	HB2	CYS	X	974	39.512	51.097	127.755	1.00	0.00	H
ATOM	12142	HB3	CYS	X	974	39.418	51.087	129.481	1.00	0.00	H
ATOM	12143	SG	CYS	X	974	39.822	53.243	128.760	1.00	0.00	S
ATOM	12144	HG	CYS	X	974	39.770	53.398	130.086	1.00	0.00	H
ATOM	12145	C	CYS	X	974	41.495	49.381	128.845	1.00	0.00	C
ATOM	12146	O	CYS	X	974	40.572	48.770	129.403	1.00	0.00	O
ATOM	12147	N	ILE	X	975	42.568	48.673	128.390	1.00	0.00	N
ATOM	12148	H	ILE	X	975	43.309	49.129	127.878	1.00	0.00	H
ATOM	12149	CA	ILE	X	975	42.894	47.296	128.672	1.00	0.00	C
ATOM	12150	HA	ILE	X	975	42.009	46.680	128.514	1.00	0.00	H
ATOM	12151	CB	ILE	X	975	44.048	46.922	127.782	1.00	0.00	C
ATOM	12152	HB	ILE	X	975	44.744	47.759	127.828	1.00	0.00	H
ATOM	12153	CG2	ILE	X	975	44.635	45.526	128.087	1.00	0.00	C
ATOM	12154	HG21	ILE	X	975	43.821	44.803	128.034	1.00	0.00	H
ATOM	12155	HG22	ILE	X	975	45.423	45.254	127.386	1.00	0.00	H
ATOM	12156	HG23	ILE	X	975	45.095	45.559	129.075	1.00	0.00	H
ATOM	12157	CG1	ILE	X	975	43.596	46.967	126.308	1.00	0.00	C
ATOM	12158	HG12	ILE	X	975	42.925	46.127	126.130	1.00	0.00	H
ATOM	12159	HG13	ILE	X	975	42.956	47.843	126.202	1.00	0.00	H
ATOM	12160	CD1	ILE	X	975	44.704	47.158	125.298	1.00	0.00	C
ATOM	12161	HD11	ILE	X	975	45.240	48.097	125.440	1.00	0.00	H
ATOM	12162	HD12	ILE	X	975	45.368	46.293	125.325	1.00	0.00	H
ATOM	12163	HD13	ILE	X	975	44.231	47.241	124.321	1.00	0.00	H
ATOM	12164	C	ILE	X	975	43.340	47.087	130.152	1.00	0.00	C
ATOM	12165	O	ILE	X	975	43.994	47.903	130.743	1.00	0.00	O
ATOM	12166	N	THR	X	976	42.851	45.928	130.638	1.00	0.00	N
ATOM	12167	H	THR	X	976	42.458	45.279	129.971	1.00	0.00	H
ATOM	12168	CA	THR	X	976	43.069	45.464	132.094	1.00	0.00	C
ATOM	12169	HA	THR	X	976	43.732	46.193	132.559	1.00	0.00	H
ATOM	12170	CB	THR	X	976	41.699	45.317	132.792	1.00	0.00	C
ATOM	12171	HB	THR	X	976	41.782	45.366	133.878	1.00	0.00	H
ATOM	12172	CG2	THR	X	976	40.837	46.469	132.437	1.00	0.00	C
ATOM	12173	HG21	THR	X	976	39.894	46.360	132.970	1.00	0.00	H
ATOM	12174	HG22	THR	X	976	41.330	47.400	132.715	1.00	0.00	H
ATOM	12175	HG23	THR	X	976	40.608	46.432	131.371	1.00	0.00	H
ATOM	12176	OG1	THR	X	976	40.954	44.142	132.383	1.00	0.00	O
ATOM	12177	HG1	THR	X	976	40.694	44.400	131.495	1.00	0.00	H
ATOM	12178	C	THR	X	976	43.776	44.113	132.120	1.00	0.00	C
ATOM	12179	O	THR	X	976	44.243	43.607	131.098	1.00	0.00	O
ATOM	12180	N	PHE	X	977	43.838	43.471	133.324	1.00	0.00	N
ATOM	12181	H	PHE	X	977	43.426	44.001	134.079	1.00	0.00	H
ATOM	12182	CA	PHE	X	977	44.526	42.192	133.545	1.00	0.00	C
ATOM	12183	HA	PHE	X	977	45.587	42.349	133.350	1.00	0.00	H
ATOM	12184	CB	PHE	X	977	44.410	41.697	134.974	1.00	0.00	C
ATOM	12185	HB2	PHE	X	977	44.613	40.627	134.989	1.00	0.00	H
ATOM	12186	HB3	PHE	X	977	45.210	41.984	135.655	1.00	0.00	H
ATOM	12187	CG	PHE	X	977	43.108	41.950	135.631	1.00	0.00	C
ATOM	12188	CD1	PHE	X	977	42.246	40.858	135.882	1.00	0.00	C
ATOM	12189	HD1	PHE	X	977	42.405	39.811	135.671	1.00	0.00	H
ATOM	12190	CE1	PHE	X	977	41.011	41.028	136.566	1.00	0.00	C
ATOM	12191	HE1	PHE	X	977	40.323	40.210	136.725	1.00	0.00	H
ATOM	12192	CZ	PHE	X	977	40.677	42.296	137.084	1.00	0.00	C
ATOM	12193	HZ	PHE	X	977	39.822	42.498	137.711	1.00	0.00	H
ATOM	12194	CE2	PHE	X	977	41.539	43.330	136.864	1.00	0.00	C
ATOM	12195	HE2	PHE	X	977	41.402	44.326	137.258	1.00	0.00	H
ATOM	12196	CD2	PHE	X	977	42.728	43.205	136.142	1.00	0.00	C
ATOM	12197	HD2	PHE	X	977	43.437	44.013	136.040	1.00	0.00	H
ATOM	12198	C	PHE	X	977	43.930	41.093	132.619	1.00	0.00	C
ATOM	12199	O	PHE	X	977	44.666	40.197	132.232	1.00	0.00	O
ATOM	12200	N	VAL	X	978	42.582	41.203	132.241	1.00	0.00	N
ATOM	12201	H	VAL	X	978	42.088	42.000	132.614	1.00	0.00	H
ATOM	12202	CA	VAL	X	978	41.832	40.211	131.473	1.00	0.00	C
ATOM	12203	HA	VAL	X	978	42.114	39.200	131.765	1.00	0.00	H
ATOM	12204	CB	VAL	X	978	40.289	40.387	131.657	1.00	0.00	C
ATOM	12205	HB	VAL	X	978	39.971	41.419	131.507	1.00	0.00	H
ATOM	12206	CG1	VAL	X	978	39.388	39.535	130.744	1.00	0.00	C
ATOM	12207	HG11	VAL	X	978	39.629	39.702	129.694	1.00	0.00	H
ATOM	12208	HG12	VAL	X	978	39.393	38.487	131.049	1.00	0.00	H
ATOM	12209	HG13	VAL	X	978	38.413	39.944	131.012	1.00	0.00	H
ATOM	12210	CG2	VAL	X	978	39.895	40.050	133.096	1.00	0.00	C
ATOM	12211	HG21	VAL	X	978	39.986	38.996	133.359	1.00	0.00	H
ATOM	12212	HG22	VAL	X	978	40.558	40.633	133.735	1.00	0.00	H
ATOM	12213	HG23	VAL	X	978	38.874	40.412	133.219	1.00	0.00	H
ATOM	12214	C	VAL	X	978	42.222	40.370	129.988	1.00	0.00	C
ATOM	12215	O	VAL	X	978	42.388	39.394	129.241	1.00	0.00	O
ATOM	12216	N	GLY	X	979	42.464	41.611	129.605	1.00	0.00	N

ATOM	12217	H	GLY	X	979	42.439	42.387	130.251	1.00	0.00	H
ATOM	12218	CA	GLY	X	979	42.961	41.893	128.271	1.00	0.00	C
ATOM	12219	HA2	GLY	X	979	42.262	41.558	127.504	1.00	0.00	H
ATOM	12220	HA3	GLY	X	979	43.168	42.962	128.256	1.00	0.00	H
ATOM	12221	C	GLY	X	979	44.343	41.242	127.922	1.00	0.00	C
ATOM	12222	O	GLY	X	979	44.457	40.486	126.973	1.00	0.00	O
ATOM	12223	N	ALA	X	980	45.282	41.451	128.852	1.00	0.00	N
ATOM	12224	H	ALA	X	980	44.968	41.872	129.715	1.00	0.00	H
ATOM	12225	CA	ALA	X	980	46.712	41.160	128.617	1.00	0.00	C
ATOM	12226	HA	ALA	X	980	47.036	41.395	127.603	1.00	0.00	H
ATOM	12227	CB	ALA	X	980	47.538	41.830	129.688	1.00	0.00	C
ATOM	12228	HB1	ALA	X	980	47.115	42.753	130.084	1.00	0.00	H
ATOM	12229	HB2	ALA	X	980	47.689	41.096	130.479	1.00	0.00	H
ATOM	12230	HB3	ALA	X	980	48.501	42.086	129.248	1.00	0.00	H
ATOM	12231	C	ALA	X	980	46.986	39.635	128.633	1.00	0.00	C
ATOM	12232	O	ALA	X	980	47.857	39.159	127.933	1.00	0.00	O
ATOM	12233	N	GLU	X	981	46.140	39.006	129.378	1.00	0.00	N
ATOM	12234	H	GLU	X	981	45.559	39.547	130.002	1.00	0.00	H
ATOM	12235	CA	GLU	X	981	46.086	37.536	129.423	1.00	0.00	C
ATOM	12236	HA	GLU	X	981	47.067	37.378	129.868	1.00	0.00	H
ATOM	12237	CB	GLU	X	981	44.947	37.115	130.386	1.00	0.00	C
ATOM	12238	HB2	GLU	X	981	45.040	37.793	131.235	1.00	0.00	H
ATOM	12239	HB3	GLU	X	981	43.930	37.231	130.010	1.00	0.00	H
ATOM	12240	CG	GLU	X	981	44.938	35.687	131.014	1.00	0.00	C
ATOM	12241	HG2	GLU	X	981	44.079	35.684	131.686	1.00	0.00	H
ATOM	12242	HG3	GLU	X	981	44.770	35.004	130.182	1.00	0.00	H
ATOM	12243	CD	GLU	X	981	46.193	35.281	131.816	1.00	0.00	C
ATOM	12244	OE1	GLU	X	981	46.614	36.044	132.712	1.00	0.00	O
ATOM	12245	OE2	GLU	X	981	46.804	34.263	131.465	1.00	0.00	O
ATOM	12246	C	GLU	X	981	45.955	36.788	128.118	1.00	0.00	C
ATOM	12247	O	GLU	X	981	46.877	35.989	127.774	1.00	0.00	O
ATOM	12248	N	ALA	X	982	44.928	37.045	127.327	1.00	0.00	N
ATOM	12249	H	ALA	X	982	44.199	37.674	127.631	1.00	0.00	H
ATOM	12250	CA	ALA	X	982	44.749	36.654	125.906	1.00	0.00	C
ATOM	12251	HA	ALA	X	982	44.583	35.583	125.798	1.00	0.00	H
ATOM	12252	CB	ALA	X	982	43.433	37.314	125.394	1.00	0.00	C
ATOM	12253	HB1	ALA	X	982	43.545	38.385	125.563	1.00	0.00	H
ATOM	12254	HB2	ALA	X	982	43.229	37.099	124.345	1.00	0.00	H
ATOM	12255	HB3	ALA	X	982	42.605	36.981	126.022	1.00	0.00	H
ATOM	12256	C	ALA	X	982	46.016	37.048	125.133	1.00	0.00	C
ATOM	12257	O	ALA	X	982	46.482	36.308	124.251	1.00	0.00	O
ATOM	12258	N	LEU	X	983	46.570	38.255	125.259	1.00	0.00	N
ATOM	12259	H	LEU	X	983	46.149	38.945	125.864	1.00	0.00	H
ATOM	12260	CA	LEU	X	983	47.739	38.565	124.488	1.00	0.00	C
ATOM	12261	HA	LEU	X	983	47.555	38.441	123.421	1.00	0.00	H
ATOM	12262	CB	LEU	X	983	48.110	40.063	124.749	1.00	0.00	C
ATOM	12263	HB2	LEU	X	983	47.255	40.647	124.405	1.00	0.00	H
ATOM	12264	HB3	LEU	X	983	48.148	40.077	125.837	1.00	0.00	H
ATOM	12265	CG	LEU	X	983	49.362	40.649	124.121	1.00	0.00	C
ATOM	12266	HG	LEU	X	983	50.310	40.197	124.413	1.00	0.00	H
ATOM	12267	CD1	LEU	X	983	49.196	40.812	122.579	1.00	0.00	C
ATOM	12268	HD11	LEU	X	983	48.257	41.262	122.257	1.00	0.00	H
ATOM	12269	HD12	LEU	X	983	50.049	41.295	122.104	1.00	0.00	H
ATOM	12270	HD13	LEU	X	983	49.089	39.846	122.087	1.00	0.00	H
ATOM	12271	CD2	LEU	X	983	49.482	42.054	124.619	1.00	0.00	C
ATOM	12272	HD21	LEU	X	983	50.425	42.467	124.261	1.00	0.00	H
ATOM	12273	HD22	LEU	X	983	48.674	42.622	124.159	1.00	0.00	H
ATOM	12274	HD23	LEU	X	983	49.412	42.143	125.703	1.00	0.00	H
ATOM	12275	C	LEU	X	983	48.868	37.586	124.823	1.00	0.00	C
ATOM	12276	O	LEU	X	983	49.541	37.255	123.883	1.00	0.00	O
ATOM	12277	N	LEU	X	984	49.150	37.268	126.110	1.00	0.00	N
ATOM	12278	H	LEU	X	984	48.527	37.782	126.716	1.00	0.00	H
ATOM	12279	CA	LEU	X	984	50.082	36.298	126.526	1.00	0.00	C
ATOM	12280	HA	LEU	X	984	51.116	36.469	126.222	1.00	0.00	H
ATOM	12281	CB	LEU	X	984	50.197	36.233	128.098	1.00	0.00	C
ATOM	12282	HB2	LEU	X	984	49.182	36.312	128.488	1.00	0.00	H
ATOM	12283	HB3	LEU	X	984	50.569	35.310	128.542	1.00	0.00	H
ATOM	12284	CG	LEU	X	984	51.044	37.477	128.674	1.00	0.00	C
ATOM	12285	HG	LEU	X	984	50.661	38.402	128.243	1.00	0.00	H
ATOM	12286	CD1	LEU	X	984	50.802	37.651	130.177	1.00	0.00	C
ATOM	12287	HD11	LEU	X	984	51.357	38.544	130.460	1.00	0.00	H
ATOM	12288	HD12	LEU	X	984	49.749	37.881	130.340	1.00	0.00	H
ATOM	12289	HD13	LEU	X	984	51.192	36.717	130.586	1.00	0.00	H
ATOM	12290	CD2	LEU	X	984	52.584	37.311	128.526	1.00	0.00	C
ATOM	12291	HD21	LEU	X	984	52.684	36.241	128.707	1.00	0.00	H
ATOM	12292	HD22	LEU	X	984	52.972	37.679	127.576	1.00	0.00	H
ATOM	12293	HD23	LEU	X	984	53.161	37.862	129.267	1.00	0.00	H
ATOM	12294	C	LEU	X	984	49.854	34.923	125.871	1.00	0.00	C
ATOM	12295	O	LEU	X	984	50.788	34.277	125.394	1.00	0.00	O
ATOM	12296	N	GLN	X	985	48.581	34.537	125.720	1.00	0.00	N
ATOM	12297	H	GLN	X	985	47.876	35.094	126.182	1.00	0.00	H
ATOM	12298	CA	GLN	X	985	48.162	33.424	124.880	1.00	0.00	C

ATOM	12299	HA	GLN	X	985	48.614	32.549	125.346	1.00	0.00	H
ATOM	12300	CB	GLN	X	985	46.673	33.127	125.020	1.00	0.00	C
ATOM	12301	HB2	GLN	X	985	46.299	33.419	126.001	1.00	0.00	H
ATOM	12302	HB3	GLN	X	985	46.162	33.782	124.315	1.00	0.00	H
ATOM	12303	CG	GLN	X	985	46.292	31.660	124.789	1.00	0.00	C
ATOM	12304	HG2	GLN	X	985	46.976	30.915	125.194	1.00	0.00	H
ATOM	12305	HG3	GLN	X	985	45.359	31.438	125.307	1.00	0.00	H
ATOM	12306	CD	GLN	X	985	46.004	31.364	123.271	1.00	0.00	C
ATOM	12307	OE1	GLN	X	985	46.193	32.169	122.418	1.00	0.00	O
ATOM	12308	NE2	GLN	X	985	45.469	30.203	122.893	1.00	0.00	N
ATOM	12309	HE21	GLN	X	985	45.081	30.207	121.961	1.00	0.00	H
ATOM	12310	HE22	GLN	X	985	45.202	29.536	123.603	1.00	0.00	H
ATOM	12311	C	GLN	X	985	48.660	33.539	123.409	1.00	0.00	C
ATOM	12312	O	GLN	X	985	49.116	32.529	122.815	1.00	0.00	O
ATOM	12313	N	ALA	X	986	48.583	34.710	122.739	1.00	0.00	N
ATOM	12314	H	ALA	X	986	48.069	35.415	123.249	1.00	0.00	H
ATOM	12315	CA	ALA	X	986	49.094	34.931	121.399	1.00	0.00	C
ATOM	12316	HA	ALA	X	986	48.804	34.122	120.729	1.00	0.00	H
ATOM	12317	CB	ALA	X	986	48.484	36.247	120.832	1.00	0.00	C
ATOM	12318	HB1	ALA	X	986	48.912	37.135	121.296	1.00	0.00	H
ATOM	12319	HB2	ALA	X	986	48.693	36.294	119.764	1.00	0.00	H
ATOM	12320	HB3	ALA	X	986	47.403	36.184	120.955	1.00	0.00	H
ATOM	12321	C	ALA	X	986	50.629	35.054	121.279	1.00	0.00	C
ATOM	12322	O	ALA	X	986	51.176	34.566	120.281	1.00	0.00	O
ATOM	12323	N	LEU	X	987	51.179	35.803	122.233	1.00	0.00	N
ATOM	12324	H	LEU	X	987	50.607	36.309	122.894	1.00	0.00	H
ATOM	12325	CA	LEU	X	987	52.647	35.914	122.469	1.00	0.00	C
ATOM	12326	HA	LEU	X	987	52.998	36.267	121.498	1.00	0.00	H
ATOM	12327	CB	LEU	X	987	53.019	36.864	123.619	1.00	0.00	C
ATOM	12328	HB2	LEU	X	987	52.306	36.716	124.430	1.00	0.00	H
ATOM	12329	HB3	LEU	X	987	54.014	36.558	123.945	1.00	0.00	H
ATOM	12330	CG	LEU	X	987	52.933	38.447	123.337	1.00	0.00	C
ATOM	12331	HG	LEU	X	987	51.924	38.849	123.242	1.00	0.00	H
ATOM	12332	CD1	LEU	X	987	53.567	39.269	124.494	1.00	0.00	C
ATOM	12333	HD11	LEU	X	987	54.621	39.007	124.589	1.00	0.00	H
ATOM	12334	HD12	LEU	X	987	53.510	40.349	124.366	1.00	0.00	H
ATOM	12335	HD13	LEU	X	987	52.986	39.018	125.382	1.00	0.00	H
ATOM	12336	CD2	LEU	X	987	53.654	38.815	122.029	1.00	0.00	C
ATOM	12337	HD21	LEU	X	987	53.537	39.882	121.840	1.00	0.00	H
ATOM	12338	HD22	LEU	X	987	54.734	38.678	122.084	1.00	0.00	H
ATOM	12339	HD23	LEU	X	987	53.218	38.305	121.169	1.00	0.00	H
ATOM	12340	C	LEU	X	987	53.311	34.571	122.590	1.00	0.00	C
ATOM	12341	O	LEU	X	987	54.455	34.400	122.108	1.00	0.00	O
ATOM	12342	N	ALA	X	988	52.691	33.611	123.207	1.00	0.00	N
ATOM	12343	H	ALA	X	988	51.709	33.799	123.341	1.00	0.00	H
ATOM	12344	CA	ALA	X	988	53.219	32.204	123.255	1.00	0.00	C
ATOM	12345	HA	ALA	X	988	54.202	32.088	123.714	1.00	0.00	H
ATOM	12346	CB	ALA	X	988	52.194	31.403	124.096	1.00	0.00	C
ATOM	12347	HB1	ALA	X	988	51.999	31.823	125.083	1.00	0.00	H
ATOM	12348	HB2	ALA	X	988	51.242	31.321	123.573	1.00	0.00	H
ATOM	12349	HB3	ALA	X	988	52.665	30.430	124.244	1.00	0.00	H
ATOM	12350	C	ALA	X	988	53.368	31.586	121.835	1.00	0.00	C
ATOM	12351	O	ALA	X	988	54.218	30.723	121.744	1.00	0.00	O
ATOM	12352	N	SER	X	989	52.603	32.056	120.824	1.00	0.00	N
ATOM	12353	H	SER	X	989	51.812	32.636	121.064	1.00	0.00	H
ATOM	12354	CA	SER	X	989	52.614	31.584	119.404	1.00	0.00	C
ATOM	12355	HA	SER	X	989	53.121	30.621	119.333	1.00	0.00	H
ATOM	12356	CB	SER	X	989	51.208	31.165	118.934	1.00	0.00	C
ATOM	12357	HB2	SER	X	989	50.518	32.008	118.951	1.00	0.00	H
ATOM	12358	HB3	SER	X	989	51.130	30.856	117.891	1.00	0.00	H
ATOM	12359	OG	SER	X	989	50.723	30.153	119.785	1.00	0.00	O
ATOM	12360	HG	SER	X	989	49.886	30.453	120.146	1.00	0.00	H
ATOM	12361	C	SER	X	989	53.166	32.552	118.320	1.00	0.00	C
ATOM	12362	O	SER	X	989	52.854	32.377	117.118	1.00	0.00	O
ATOM	12363	N	ASN	X	990	53.910	33.561	118.760	1.00	0.00	N
ATOM	12364	H	ASN	X	990	54.070	33.619	119.756	1.00	0.00	H
ATOM	12365	CA	ASN	X	990	54.550	34.657	117.878	1.00	0.00	C
ATOM	12366	HA	ASN	X	990	54.586	34.258	116.864	1.00	0.00	H
ATOM	12367	CB	ASN	X	990	53.648	35.923	117.931	1.00	0.00	C
ATOM	12368	HB2	ASN	X	990	52.697	35.606	117.504	1.00	0.00	H
ATOM	12369	HB3	ASN	X	990	53.522	36.259	118.960	1.00	0.00	H
ATOM	12370	CG	ASN	X	990	54.138	37.075	117.107	1.00	0.00	C
ATOM	12371	OD1	ASN	X	990	55.057	37.740	117.571	1.00	0.00	O
ATOM	12372	ND2	ASN	X	990	53.459	37.337	116.053	1.00	0.00	N
ATOM	12373	HD21	ASN	X	990	53.673	38.177	115.535	1.00	0.00	H
ATOM	12374	HD22	ASN	X	990	52.618	36.777	116.039	1.00	0.00	H
ATOM	12375	C	ASN	X	990	56.021	34.953	118.286	1.00	0.00	C
ATOM	12376	O	ASN	X	990	56.347	35.055	119.447	1.00	0.00	O
ATOM	12377	N	ASP	X	991	56.884	35.286	117.324	1.00	0.00	N
ATOM	12378	H	ASP	X	991	56.494	35.229	116.394	1.00	0.00	H
ATOM	12379	CA	ASP	X	991	58.308	35.709	117.634	1.00	0.00	C
ATOM	12380	HA	ASP	X	991	58.398	35.886	118.705	1.00	0.00	H

ATOM	12381	CB	ASP	X	991	59.182	34.476	117.385	1.00	0.00	C
ATOM	12382	HB2	ASP	X	991	60.216	34.784	117.537	1.00	0.00	H
ATOM	12383	HB3	ASP	X	991	58.853	33.696	118.071	1.00	0.00	H
ATOM	12384	CG	ASP	X	991	59.128	33.903	115.936	1.00	0.00	C
ATOM	12385	OD1	ASP	X	991	59.197	32.670	115.812	1.00	0.00	O
ATOM	12386	OD2	ASP	X	991	59.134	34.666	114.948	1.00	0.00	O
ATOM	12387	C	ASP	X	991	58.871	36.808	116.850	1.00	0.00	C
ATOM	12388	O	ASP	X	991	60.008	37.234	117.204	1.00	0.00	O
ATOM	12389	N	THR	X	992	58.164	37.424	115.902	1.00	0.00	N
ATOM	12390	H	THR	X	992	57.330	36.940	115.607	1.00	0.00	H
ATOM	12391	CA	THR	X	992	58.648	38.538	115.183	1.00	0.00	C
ATOM	12392	HA	THR	X	992	59.687	38.317	114.944	1.00	0.00	H
ATOM	12393	CB	THR	X	992	57.791	38.698	113.891	1.00	0.00	C
ATOM	12394	HB	THR	X	992	56.776	39.059	114.056	1.00	0.00	H
ATOM	12395	CG2	THR	X	992	58.449	39.759	113.057	1.00	0.00	C
ATOM	12396	HG21	THR	X	992	59.470	39.434	112.861	1.00	0.00	H
ATOM	12397	HG22	THR	X	992	57.926	39.869	112.106	1.00	0.00	H
ATOM	12398	HG23	THR	X	992	58.366	40.704	113.597	1.00	0.00	H
ATOM	12399	OG1	THR	X	992	57.711	37.513	113.162	1.00	0.00	O
ATOM	12400	HG1	THR	X	992	57.257	36.862	113.702	1.00	0.00	H
ATOM	12401	C	THR	X	992	58.537	39.844	116.078	1.00	0.00	C
ATOM	12402	O	THR	X	992	59.428	40.680	115.972	1.00	0.00	O
ATOM	12403	N	ILE	X	993	57.510	39.945	116.934	1.00	0.00	N
ATOM	12404	H	ILE	X	993	56.804	39.226	116.858	1.00	0.00	H
ATOM	12405	CA	ILE	X	993	57.407	41.036	117.935	1.00	0.00	C
ATOM	12406	HA	ILE	X	993	57.237	42.050	117.575	1.00	0.00	H
ATOM	12407	CB	ILE	X	993	56.172	40.774	118.860	1.00	0.00	C
ATOM	12408	HB	ILE	X	993	56.278	39.772	119.273	1.00	0.00	H
ATOM	12409	CG2	ILE	X	993	56.044	41.723	120.061	1.00	0.00	C
ATOM	12410	HG21	ILE	X	993	56.920	41.648	120.705	1.00	0.00	H
ATOM	12411	HG22	ILE	X	993	55.886	42.720	119.647	1.00	0.00	H
ATOM	12412	HG23	ILE	X	993	55.220	41.432	120.710	1.00	0.00	H
ATOM	12413	CG1	ILE	X	993	54.785	40.814	118.054	1.00	0.00	C
ATOM	12414	HG12	ILE	X	993	54.982	40.313	117.106	1.00	0.00	H
ATOM	12415	HG13	ILE	X	993	54.064	40.321	118.707	1.00	0.00	H
ATOM	12416	CD1	ILE	X	993	54.324	42.229	117.680	1.00	0.00	C
ATOM	12417	HD11	ILE	X	993	55.020	42.862	117.129	1.00	0.00	H
ATOM	12418	HD12	ILE	X	993	53.482	42.113	116.997	1.00	0.00	H
ATOM	12419	HD13	ILE	X	993	53.822	42.719	118.513	1.00	0.00	H
ATOM	12420	C	ILE	X	993	58.601	41.170	118.859	1.00	0.00	C
ATOM	12421	O	ILE	X	993	58.794	40.233	119.699	1.00	0.00	O
ATOM	12422	N	LEU	X	994	59.332	42.264	118.844	1.00	0.00	N
ATOM	12423	H	LEU	X	994	59.229	42.934	118.096	1.00	0.00	H
ATOM	12424	CA	LEU	X	994	60.354	42.696	119.799	1.00	0.00	C
ATOM	12425	HA	LEU	X	994	60.507	41.795	120.393	1.00	0.00	H
ATOM	12426	CB	LEU	X	994	61.582	43.241	119.093	1.00	0.00	C
ATOM	12427	HB2	LEU	X	994	61.378	44.259	118.763	1.00	0.00	H
ATOM	12428	HB3	LEU	X	994	62.405	43.437	119.781	1.00	0.00	H
ATOM	12429	CG	LEU	X	994	62.091	42.443	117.803	1.00	0.00	C
ATOM	12430	HG	LEU	X	994	61.342	42.524	117.015	1.00	0.00	H
ATOM	12431	CD1	LEU	X	994	63.327	43.161	117.330	1.00	0.00	C
ATOM	12432	HD11	LEU	X	994	63.740	42.709	116.427	1.00	0.00	H
ATOM	12433	HD12	LEU	X	994	63.086	44.203	117.119	1.00	0.00	H
ATOM	12434	HD13	LEU	X	994	64.105	43.193	118.093	1.00	0.00	H
ATOM	12435	CD2	LEU	X	994	62.339	40.970	117.977	1.00	0.00	C
ATOM	12436	HD21	LEU	X	994	63.197	40.646	118.565	1.00	0.00	H
ATOM	12437	HD22	LEU	X	994	61.434	40.375	118.116	1.00	0.00	H
ATOM	12438	HD23	LEU	X	994	62.658	40.552	117.022	1.00	0.00	H
ATOM	12439	C	LEU	X	994	59.818	43.677	120.841	1.00	0.00	C
ATOM	12440	O	LEU	X	994	60.248	43.557	121.977	1.00	0.00	O
ATOM	12441	N	GLU	X	995	58.851	44.588	120.575	1.00	0.00	N
ATOM	12442	H	GLU	X	995	58.516	44.753	119.636	1.00	0.00	H
ATOM	12443	CA	GLU	X	995	58.190	45.334	121.673	1.00	0.00	C
ATOM	12444	HA	GLU	X	995	58.199	44.790	122.617	1.00	0.00	H
ATOM	12445	CB	GLU	X	995	58.763	46.758	121.644	1.00	0.00	C
ATOM	12446	HB2	GLU	X	995	58.624	47.271	120.692	1.00	0.00	H
ATOM	12447	HB3	GLU	X	995	58.281	47.367	122.409	1.00	0.00	H
ATOM	12448	CG	GLU	X	995	60.275	46.657	121.908	1.00	0.00	C
ATOM	12449	HG2	GLU	X	995	60.464	45.986	122.745	1.00	0.00	H
ATOM	12450	HG3	GLU	X	995	60.820	46.300	121.035	1.00	0.00	H
ATOM	12451	CD	GLU	X	995	60.915	48.019	122.299	1.00	0.00	C
ATOM	12452	OE1	GLU	X	995	62.154	48.097	122.303	1.00	0.00	O
ATOM	12453	OE2	GLU	X	995	60.159	49.016	122.459	1.00	0.00	O
ATOM	12454	C	GLU	X	995	56.695	45.517	121.497	1.00	0.00	C
ATOM	12455	O	GLU	X	995	56.205	45.846	120.427	1.00	0.00	O
ATOM	12456	N	VAL	X	996	55.886	45.264	122.585	1.00	0.00	N
ATOM	12457	H	VAL	X	996	56.302	45.144	123.499	1.00	0.00	H
ATOM	12458	CA	VAL	X	996	54.459	45.786	122.666	1.00	0.00	C
ATOM	12459	HA	VAL	X	996	54.109	46.251	121.744	1.00	0.00	H
ATOM	12460	CB	VAL	X	996	53.455	44.669	122.880	1.00	0.00	C
ATOM	12461	HB	VAL	X	996	53.498	44.451	123.947	1.00	0.00	H
ATOM	12462	CG1	VAL	X	996	52.007	45.188	122.688	1.00	0.00	C

ATOM	12463	HG11	VAL	X	996	51.861	46.044	123.346	1.00	0.00	H
ATOM	12464	HG12	VAL	X	996	51.929	45.455	121.634	1.00	0.00	H
ATOM	12465	HG13	VAL	X	996	51.236	44.458	122.936	1.00	0.00	H
ATOM	12466	CG2	VAL	X	996	53.669	43.350	122.077	1.00	0.00	C
ATOM	12467	HG21	VAL	X	996	52.776	42.726	122.134	1.00	0.00	H
ATOM	12468	HG22	VAL	X	996	53.901	43.530	121.028	1.00	0.00	H
ATOM	12469	HG23	VAL	X	996	54.497	42.723	122.409	1.00	0.00	H
ATOM	12470	C	VAL	X	996	54.441	46.873	123.707	1.00	0.00	C
ATOM	12471	O	VAL	X	996	54.994	46.640	124.808	1.00	0.00	O
ATOM	12472	N	TRP	X	997	53.836	48.037	123.427	1.00	0.00	N
ATOM	12473	H	TRP	X	997	53.519	48.048	122.468	1.00	0.00	H
ATOM	12474	CA	TRP	X	997	53.701	49.164	124.350	1.00	0.00	C
ATOM	12475	HA	TRP	X	997	54.216	48.905	125.276	1.00	0.00	H
ATOM	12476	CB	TRP	X	997	54.178	50.454	123.645	1.00	0.00	C
ATOM	12477	HB2	TRP	X	997	53.622	50.529	122.712	1.00	0.00	H
ATOM	12478	HB3	TRP	X	997	53.868	51.368	124.149	1.00	0.00	H
ATOM	12479	CG	TRP	X	997	55.654	50.661	123.304	1.00	0.00	C
ATOM	12480	CD1	TRP	X	997	56.640	49.763	123.419	1.00	0.00	C
ATOM	12481	HD1	TRP	X	997	56.542	48.717	123.671	1.00	0.00	H
ATOM	12482	NE1	TRP	X	997	57.821	50.301	122.872	1.00	0.00	N
ATOM	12483	HE1	TRP	X	997	58.703	49.809	122.835	1.00	0.00	H
ATOM	12484	CE2	TRP	X	997	57.679	51.663	122.595	1.00	0.00	C
ATOM	12485	CZ2	TRP	X	997	58.474	52.681	122.072	1.00	0.00	C
ATOM	12486	HZ2	TRP	X	997	59.446	52.373	121.714	1.00	0.00	H
ATOM	12487	CH2	TRP	X	997	57.857	53.955	121.826	1.00	0.00	C
ATOM	12488	HH2	TRP	X	997	58.415	54.734	121.326	1.00	0.00	H
ATOM	12489	CZ3	TRP	X	997	56.493	54.167	122.038	1.00	0.00	C
ATOM	12490	HZ3	TRP	X	997	55.994	55.068	121.711	1.00	0.00	H
ATOM	12491	CE3	TRP	X	997	55.697	53.122	122.554	1.00	0.00	C
ATOM	12492	HE3	TRP	X	997	54.641	53.214	122.762	1.00	0.00	H
ATOM	12493	CD2	TRP	X	997	56.286	51.844	122.850	1.00	0.00	C
ATOM	12494	C	TRP	X	997	52.248	49.324	124.723	1.00	0.00	C
ATOM	12495	O	TRP	X	997	51.429	49.355	123.790	1.00	0.00	O
ATOM	12496	N	LEU	X	998	51.970	49.418	125.995	1.00	0.00	N
ATOM	12497	H	LEU	X	998	52.763	49.458	126.621	1.00	0.00	H
ATOM	12498	CA	LEU	X	998	50.660	49.340	126.630	1.00	0.00	C
ATOM	12499	HA	LEU	X	998	49.837	49.501	125.934	1.00	0.00	H
ATOM	12500	CB	LEU	X	998	50.448	47.960	127.296	1.00	0.00	C
ATOM	12501	HB2	LEU	X	998	51.364	47.664	127.806	1.00	0.00	H
ATOM	12502	HB3	LEU	X	998	49.624	47.987	128.009	1.00	0.00	H
ATOM	12503	CG	LEU	X	998	50.328	46.752	126.165	1.00	0.00	C
ATOM	12504	HG	LEU	X	998	50.985	47.065	125.355	1.00	0.00	H
ATOM	12505	CD1	LEU	X	998	50.788	45.395	126.605	1.00	0.00	C
ATOM	12506	HD11	LEU	X	998	50.218	45.035	127.461	1.00	0.00	H
ATOM	12507	HD12	LEU	X	998	50.674	44.650	125.817	1.00	0.00	H
ATOM	12508	HD13	LEU	X	998	51.821	45.363	126.952	1.00	0.00	H
ATOM	12509	CD2	LEU	X	998	48.872	46.689	125.795	1.00	0.00	C
ATOM	12510	HD21	LEU	X	998	48.756	46.145	124.857	1.00	0.00	H
ATOM	12511	HD22	LEU	X	998	48.351	46.236	126.637	1.00	0.00	H
ATOM	12512	HD23	LEU	X	998	48.578	47.729	125.650	1.00	0.00	H
ATOM	12513	C	LEU	X	998	50.468	50.456	127.703	1.00	0.00	C
ATOM	12514	O	LEU	X	998	49.719	50.245	128.642	1.00	0.00	O
ATOM	12515	N	ARG	X	999	51.165	51.663	127.553	1.00	0.00	N
ATOM	12516	H	ARG	X	999	51.502	51.789	126.609	1.00	0.00	H
ATOM	12517	CA	ARG	X	999	51.265	52.685	128.626	1.00	0.00	C
ATOM	12518	HA	ARG	X	999	51.621	52.189	129.530	1.00	0.00	H
ATOM	12519	CB	ARG	X	999	52.232	53.771	128.085	1.00	0.00	C
ATOM	12520	HB2	ARG	X	999	51.677	54.156	127.230	1.00	0.00	H
ATOM	12521	HB3	ARG	X	999	52.320	54.616	128.767	1.00	0.00	H
ATOM	12522	CG	ARG	X	999	53.572	53.329	127.570	1.00	0.00	C
ATOM	12523	HG2	ARG	X	999	53.482	52.639	126.732	1.00	0.00	H
ATOM	12524	HG3	ARG	X	999	53.965	54.228	127.096	1.00	0.00	H
ATOM	12525	CD	ARG	X	999	54.637	52.834	128.602	1.00	0.00	C
ATOM	12526	HD2	ARG	X	999	54.847	53.483	129.454	1.00	0.00	H
ATOM	12527	HD3	ARG	X	999	54.269	51.967	129.150	1.00	0.00	H
ATOM	12528	NE	ARG	X	999	55.815	52.556	127.916	1.00	0.00	N
ATOM	12529	HE	ARG	X	999	55.960	53.230	127.178	1.00	0.00	H
ATOM	12530	CZ	ARG	X	999	56.812	51.840	128.339	1.00	0.00	C
ATOM	12531	NH1	ARG	X	999	56.724	50.993	129.316	1.00	0.00	N
ATOM	12532	HH11	ARG	X	999	55.934	50.862	129.935	1.00	0.00	H
ATOM	12533	HH12	ARG	X	999	57.539	50.413	129.459	1.00	0.00	H
ATOM	12534	NH2	ARG	X	999	57.974	51.814	127.769	1.00	0.00	N
ATOM	12535	HH21	ARG	X	999	58.131	52.668	127.252	1.00	0.00	H
ATOM	12536	HH22	ARG	X	999	58.687	51.166	128.071	1.00	0.00	H
ATOM	12537	C	ARG	X	999	49.873	53.273	128.885	1.00	0.00	C
ATOM	12538	O	ARG	X	999	49.030	53.264	127.952	1.00	0.00	O
ATOM	12539	N	GLY	X	1000	49.716	53.812	130.057	1.00	0.00	N
ATOM	12540	H	GLY	X	1000	50.442	53.672	130.746	1.00	0.00	H
ATOM	12541	CA	GLY	X	1000	48.501	54.534	130.364	1.00	0.00	C
ATOM	12542	HA2	GLY	X	1000	48.592	54.994	131.348	1.00	0.00	H
ATOM	12543	HA3	GLY	X	1000	48.253	55.313	129.642	1.00	0.00	H
ATOM	12544	C	GLY	X	1000	47.137	53.743	130.463	1.00	0.00	C

ATOM	12545	O	GLY	X1000	46.157	54.350	130.819	1.00	0.00	O
ATOM	12546	N	ASN	X1001	47.050	52.450	130.085	1.00	0.00	N
ATOM	12547	H	ASN	X1001	47.970	52.062	129.928	1.00	0.00	H
ATOM	12548	CA	ASN	X1001	45.875	51.625	130.299	1.00	0.00	C
ATOM	12549	HA	ASN	X1001	44.962	52.056	129.886	1.00	0.00	H
ATOM	12550	CB	ASN	X1001	46.099	50.246	129.627	1.00	0.00	C
ATOM	12551	HB2	ASN	X1001	47.037	49.837	130.001	1.00	0.00	H
ATOM	12552	HB3	ASN	X1001	45.298	49.595	129.978	1.00	0.00	H
ATOM	12553	CG	ASN	X1001	46.045	50.242	128.128	1.00	0.00	C
ATOM	12554	OD1	ASN	X1001	44.952	50.244	127.603	1.00	0.00	O
ATOM	12555	ND2	ASN	X1001	47.196	50.204	127.486	1.00	0.00	N
ATOM	12556	HD21	ASN	X1001	47.281	50.136	126.482	1.00	0.00	H
ATOM	12557	HD22	ASN	X1001	48.042	50.053	128.017	1.00	0.00	H
ATOM	12558	C	ASN	X1001	45.632	51.552	131.820	1.00	0.00	C
ATOM	12559	O	ASN	X1001	46.623	51.751	132.516	1.00	0.00	O
ATOM	12560	N	PRO	X1002	44.485	51.241	132.367	1.00	0.00	N
ATOM	12561	CD	PRO	X1002	43.207	51.143	131.603	1.00	0.00	C
ATOM	12562	HD2	PRO	X1002	43.430	50.537	130.724	1.00	0.00	H
ATOM	12563	HD3	PRO	X1002	42.966	52.131	131.211	1.00	0.00	H
ATOM	12564	CG	PRO	X1002	42.219	50.684	132.655	1.00	0.00	C
ATOM	12565	HG2	PRO	X1002	42.340	49.610	132.805	1.00	0.00	H
ATOM	12566	HG3	PRO	X1002	41.161	50.823	132.435	1.00	0.00	H
ATOM	12567	CB	PRO	X1002	42.651	51.426	133.844	1.00	0.00	C
ATOM	12568	HB2	PRO	X1002	42.161	51.035	134.736	1.00	0.00	H
ATOM	12569	HB3	PRO	X1002	42.365	52.476	133.768	1.00	0.00	H
ATOM	12570	CA	PRO	X1002	44.163	51.343	133.786	1.00	0.00	C
ATOM	12571	HA	PRO	X1002	44.655	52.248	134.142	1.00	0.00	H
ATOM	12572	C	PRO	X1002	44.723	50.024	134.464	1.00	0.00	C
ATOM	12573	O	PRO	X1002	44.085	48.999	134.473	1.00	0.00	O
ATOM	12574	N	PHE	X1003	45.871	50.086	135.116	1.00	0.00	N
ATOM	12575	H	PHE	X1003	46.490	50.877	135.007	1.00	0.00	H
ATOM	12576	CA	PHE	X1003	46.506	49.035	135.943	1.00	0.00	C
ATOM	12577	HA	PHE	X1003	45.828	48.226	136.219	1.00	0.00	H
ATOM	12578	CB	PHE	X1003	47.656	48.452	135.167	1.00	0.00	C
ATOM	12579	HB2	PHE	X1003	48.325	49.247	134.836	1.00	0.00	H
ATOM	12580	HB3	PHE	X1003	48.232	47.822	135.843	1.00	0.00	H
ATOM	12581	CG	PHE	X1003	47.326	47.549	133.986	1.00	0.00	C
ATOM	12582	CD1	PHE	X1003	47.277	48.043	132.663	1.00	0.00	C
ATOM	12583	HD1	PHE	X1003	47.203	49.098	132.448	1.00	0.00	H
ATOM	12584	CE1	PHE	X1003	47.231	47.223	131.560	1.00	0.00	C
ATOM	12585	HE1	PHE	X1003	47.304	47.579	130.543	1.00	0.00	H
ATOM	12586	CZ	PHE	X1003	47.098	45.830	131.806	1.00	0.00	C
ATOM	12587	HZ	PHE	X1003	46.899	45.183	130.964	1.00	0.00	H
ATOM	12588	CE2	PHE	X1003	47.032	45.327	133.100	1.00	0.00	C
ATOM	12589	HE2	PHE	X1003	46.986	44.253	133.207	1.00	0.00	H
ATOM	12590	CD2	PHE	X1003	47.153	46.174	134.244	1.00	0.00	C
ATOM	12591	HD2	PHE	X1003	46.919	45.818	135.237	1.00	0.00	H
ATOM	12592	C	PHE	X1003	47.116	49.443	137.280	1.00	0.00	C
ATOM	12593	O	PHE	X1003	47.792	50.433	137.405	1.00	0.00	O
ATOM	12594	N	SER	X1004	47.024	48.493	138.219	1.00	0.00	N
ATOM	12595	H	SER	X1004	46.289	47.802	138.141	1.00	0.00	H
ATOM	12596	CA	SER	X1004	47.722	48.601	139.519	1.00	0.00	C
ATOM	12597	HA	SER	X1004	47.596	49.623	139.876	1.00	0.00	H
ATOM	12598	CB	SER	X1004	47.033	47.650	140.478	1.00	0.00	C
ATOM	12599	HB2	SER	X1004	45.944	47.637	140.455	1.00	0.00	H
ATOM	12600	HB3	SER	X1004	47.307	46.614	140.281	1.00	0.00	H
ATOM	12601	OG	SER	X1004	47.282	48.049	141.794	1.00	0.00	O
ATOM	12602	HG	SER	X1004	47.946	47.370	141.930	1.00	0.00	H
ATOM	12603	C	SER	X1004	49.216	48.115	139.273	1.00	0.00	C
ATOM	12604	O	SER	X1004	49.499	47.308	138.401	1.00	0.00	O
ATOM	12605	N	PRO	X1005	50.184	48.664	140.113	1.00	0.00	N
ATOM	12606	CD	PRO	X1005	49.928	49.657	141.162	1.00	0.00	C
ATOM	12607	HD2	PRO	X1005	49.675	49.178	142.107	1.00	0.00	H
ATOM	12608	HD3	PRO	X1005	49.092	50.298	140.879	1.00	0.00	H
ATOM	12609	CG	PRO	X1005	51.250	50.286	141.330	1.00	0.00	C
ATOM	12610	HG2	PRO	X1005	51.401	50.848	142.251	1.00	0.00	H
ATOM	12611	HG3	PRO	X1005	51.531	50.854	140.442	1.00	0.00	H
ATOM	12612	CB	PRO	X1005	52.138	49.065	141.250	1.00	0.00	C
ATOM	12613	HB2	PRO	X1005	52.129	48.422	142.129	1.00	0.00	H
ATOM	12614	HB3	PRO	X1005	53.157	49.432	141.125	1.00	0.00	H
ATOM	12615	CA	PRO	X1005	51.606	48.378	140.051	1.00	0.00	C
ATOM	12616	HA	PRO	X1005	51.980	48.931	139.188	1.00	0.00	H
ATOM	12617	C	PRO	X1005	52.058	46.913	140.009	1.00	0.00	C
ATOM	12618	O	PRO	X1005	52.912	46.506	139.273	1.00	0.00	O
ATOM	12619	N	GLU	X1006	51.445	46.068	140.810	1.00	0.00	N
ATOM	12620	H	GLU	X1006	50.643	46.480	141.266	1.00	0.00	H
ATOM	12621	CA	GLU	X1006	51.788	44.674	141.012	1.00	0.00	C
ATOM	12622	HA	GLU	X1006	52.866	44.635	141.174	1.00	0.00	H
ATOM	12623	CB	GLU	X1006	51.008	44.057	142.240	1.00	0.00	C
ATOM	12624	HB2	GLU	X1006	51.528	43.104	142.334	1.00	0.00	H
ATOM	12625	HB3	GLU	X1006	51.110	44.812	143.019	1.00	0.00	H
ATOM	12626	CG	GLU	X1006	49.467	43.861	142.084	1.00	0.00	C

ATOM	12627	HG2	GLU	X1006	49.200	43.594	141.062	1.00	0.00	H
ATOM	12628	HG3	GLU	X1006	49.099	43.076	142.744	1.00	0.00	H
ATOM	12629	CD	GLU	X1006	48.590	45.084	142.541	1.00	0.00	C
ATOM	12630	OE1	GLU	X1006	49.019	46.238	142.253	1.00	0.00	O
ATOM	12631	OE2	GLU	X1006	47.543	44.793	143.073	1.00	0.00	O
ATOM	12632	C	GLU	X1006	51.589	43.862	139.732	1.00	0.00	C
ATOM	12633	O	GLU	X1006	52.240	42.822	139.534	1.00	0.00	O
ATOM	12634	N	GLU	X1007	50.578	44.177	138.922	1.00	0.00	N
ATOM	12635	H	GLU	X1007	49.971	44.929	139.219	1.00	0.00	H
ATOM	12636	CA	GLU	X1007	50.319	43.583	137.544	1.00	0.00	C
ATOM	12637	HA	GLU	X1007	50.348	42.493	137.530	1.00	0.00	H
ATOM	12638	CB	GLU	X1007	48.952	44.153	137.088	1.00	0.00	C
ATOM	12639	HB2	GLU	X1007	48.343	44.364	137.967	1.00	0.00	H
ATOM	12640	HB3	GLU	X1007	49.014	45.040	136.458	1.00	0.00	H
ATOM	12641	CG	GLU	X1007	48.274	43.163	136.081	1.00	0.00	C
ATOM	12642	HG2	GLU	X1007	47.359	43.630	135.716	1.00	0.00	H
ATOM	12643	HG3	GLU	X1007	48.874	43.016	135.185	1.00	0.00	H
ATOM	12644	CD	GLU	X1007	47.810	41.880	136.833	1.00	0.00	C
ATOM	12645	OE1	GLU	X1007	48.474	40.833	136.685	1.00	0.00	O
ATOM	12646	OE2	GLU	X1007	46.955	41.845	137.713	1.00	0.00	O
ATOM	12647	C	GLU	X1007	51.343	44.085	136.496	1.00	0.00	C
ATOM	12648	O	GLU	X1007	51.758	43.300	135.664	1.00	0.00	O
ATOM	12649	N	MET	X1008	51.823	45.314	136.510	1.00	0.00	N
ATOM	12650	H	MET	X1008	51.673	45.802	137.383	1.00	0.00	H
ATOM	12651	CA	MET	X1008	52.811	45.828	135.643	1.00	0.00	C
ATOM	12652	HA	MET	X1008	52.557	45.719	134.589	1.00	0.00	H
ATOM	12653	CB	MET	X1008	52.929	47.275	135.947	1.00	0.00	C
ATOM	12654	HB2	MET	X1008	53.206	47.458	136.985	1.00	0.00	H
ATOM	12655	HB3	MET	X1008	53.759	47.762	135.434	1.00	0.00	H
ATOM	12656	CG	MET	X1008	51.668	48.136	135.587	1.00	0.00	C
ATOM	12657	HG2	MET	X1008	51.545	48.062	134.507	1.00	0.00	H
ATOM	12658	HG3	MET	X1008	50.813	47.717	136.119	1.00	0.00	H
ATOM	12659	SD	MET	X1008	51.743	49.864	136.060	1.00	0.00	S
ATOM	12660	CE	MET	X1008	53.138	50.474	135.045	1.00	0.00	C
ATOM	12661	HE1	MET	X1008	52.925	50.172	134.019	1.00	0.00	H
ATOM	12662	HE2	MET	X1008	53.264	51.555	135.115	1.00	0.00	H
ATOM	12663	HE3	MET	X1008	54.053	49.993	135.389	1.00	0.00	H
ATOM	12664	C	MET	X1008	54.107	45.107	135.890	1.00	0.00	C
ATOM	12665	O	MET	X1008	54.878	44.862	135.001	1.00	0.00	O
ATOM	12666	N	GLU	X1009	54.358	44.633	137.107	1.00	0.00	N
ATOM	12667	H	GLU	X1009	53.753	44.938	137.856	1.00	0.00	H
ATOM	12668	CA	GLU	X1009	55.615	43.973	137.419	1.00	0.00	C
ATOM	12669	HA	GLU	X1009	56.495	44.304	136.868	1.00	0.00	H
ATOM	12670	CB	GLU	X1009	55.828	44.064	138.951	1.00	0.00	C
ATOM	12671	HB2	GLU	X1009	55.855	45.108	139.266	1.00	0.00	H
ATOM	12672	HB3	GLU	X1009	54.920	43.736	139.457	1.00	0.00	H
ATOM	12673	CG	GLU	X1009	56.950	43.354	139.622	1.00	0.00	C
ATOM	12674	HG2	GLU	X1009	56.933	43.724	140.647	1.00	0.00	H
ATOM	12675	HG3	GLU	X1009	56.872	42.268	139.582	1.00	0.00	H
ATOM	12676	CD	GLU	X1009	58.379	43.582	139.095	1.00	0.00	C
ATOM	12677	OE1	GLU	X1009	58.571	44.223	138.028	1.00	0.00	O
ATOM	12678	OE2	GLU	X1009	59.275	43.093	139.788	1.00	0.00	O
ATOM	12679	C	GLU	X1009	55.443	42.525	137.086	1.00	0.00	C
ATOM	12680	O	GLU	X1009	56.325	41.846	136.534	1.00	0.00	O
ATOM	12681	N	ALA	X1010	54.290	41.850	137.317	1.00	0.00	N
ATOM	12682	H	ALA	X1010	53.490	42.385	137.622	1.00	0.00	H
ATOM	12683	CA	ALA	X1010	54.052	40.379	137.042	1.00	0.00	C
ATOM	12684	HA	ALA	X1010	54.836	39.694	137.366	1.00	0.00	H
ATOM	12685	CB	ALA	X1010	52.790	39.995	137.804	1.00	0.00	C
ATOM	12686	HB1	ALA	X1010	52.477	39.014	137.445	1.00	0.00	H
ATOM	12687	HB2	ALA	X1010	53.035	39.992	138.865	1.00	0.00	H
ATOM	12688	HB3	ALA	X1010	52.016	40.760	137.751	1.00	0.00	H
ATOM	12689	C	ALA	X1010	53.863	40.128	135.492	1.00	0.00	C
ATOM	12690	O	ALA	X1010	54.548	39.217	135.023	1.00	0.00	O
ATOM	12691	N	LEU	X1011	53.200	41.003	134.746	1.00	0.00	N
ATOM	12692	H	LEU	X1011	52.978	41.862	135.227	1.00	0.00	H
ATOM	12693	CA	LEU	X1011	53.032	40.871	133.261	1.00	0.00	C
ATOM	12694	HA	LEU	X1011	52.644	39.869	133.074	1.00	0.00	H
ATOM	12695	CB	LEU	X1011	52.039	41.895	132.738	1.00	0.00	C
ATOM	12696	HB2	LEU	X1011	52.267	42.917	133.034	1.00	0.00	H
ATOM	12697	HB3	LEU	X1011	52.085	41.880	131.649	1.00	0.00	H
ATOM	12698	CG	LEU	X1011	50.651	41.542	133.135	1.00	0.00	C
ATOM	12699	HG	LEU	X1011	50.558	41.576	134.220	1.00	0.00	H
ATOM	12700	CD1	LEU	X1011	49.841	42.732	132.705	1.00	0.00	C
ATOM	12701	HD11	LEU	X1011	48.798	42.509	132.933	1.00	0.00	H
ATOM	12702	HD12	LEU	X1011	50.082	43.655	133.233	1.00	0.00	H
ATOM	12703	HD13	LEU	X1011	50.055	42.877	131.647	1.00	0.00	H
ATOM	12704	CD2	LEU	X1011	50.019	40.329	132.615	1.00	0.00	C
ATOM	12705	HD21	LEU	X1011	49.769	40.433	131.560	1.00	0.00	H
ATOM	12706	HD22	LEU	X1011	50.622	39.437	132.786	1.00	0.00	H
ATOM	12707	HD23	LEU	X1011	49.055	40.173	133.098	1.00	0.00	H
ATOM	12708	C	LEU	X1011	54.313	40.894	132.455	1.00	0.00	C

ATOM	12709	O	LEU	X1011	54.695	39.884	131.800	1.00	0.00	O
ATOM	12710	N	SER	X1012	55.148	41.894	132.654	1.00	0.00	N
ATOM	12711	H	SER	X1012	54.812	42.640	133.246	1.00	0.00	H
ATOM	12712	CA	SER	X1012	56.541	41.857	132.269	1.00	0.00	C
ATOM	12713	HA	SER	X1012	56.559	41.695	131.190	1.00	0.00	H
ATOM	12714	CB	SER	X1012	57.199	43.305	132.534	1.00	0.00	C
ATOM	12715	HB2	SER	X1012	57.325	43.370	133.615	1.00	0.00	H
ATOM	12716	HB3	SER	X1012	58.134	43.309	131.973	1.00	0.00	H
ATOM	12717	OG	SER	X1012	56.283	44.316	132.043	1.00	0.00	O
ATOM	12718	HG	SER	X1012	56.207	44.183	131.095	1.00	0.00	H
ATOM	12719	C	SER	X1012	57.339	40.753	132.865	1.00	0.00	C
ATOM	12720	O	SER	X1012	58.395	40.467	132.330	1.00	0.00	O
ATOM	12721	N	HIE	X1013	56.937	40.131	133.957	1.00	0.00	N
ATOM	12722	H	HIE	X1013	56.178	40.457	134.537	1.00	0.00	H
ATOM	12723	CA	HIE	X1013	57.644	38.896	134.489	1.00	0.00	C
ATOM	12724	HA	HIE	X1013	58.709	39.126	134.489	1.00	0.00	H
ATOM	12725	CB	HIE	X1013	57.388	38.700	135.938	1.00	0.00	C
ATOM	12726	HB2	HIE	X1013	57.383	39.648	136.474	1.00	0.00	H
ATOM	12727	HB3	HIE	X1013	56.472	38.120	136.055	1.00	0.00	H
ATOM	12728	CG	HIE	X1013	58.302	37.872	136.696	1.00	0.00	C
ATOM	12729	ND1	HIE	X1013	58.204	36.468	136.841	1.00	0.00	N
ATOM	12730	CE1	HIE	X1013	59.130	36.139	137.728	1.00	0.00	C
ATOM	12731	HE1	HIE	X1013	59.350	35.152	138.106	1.00	0.00	H
ATOM	12732	NE2	HIE	X1013	59.813	37.278	138.114	1.00	0.00	N
ATOM	12733	HE2	HIE	X1013	60.618	37.337	138.722	1.00	0.00	H
ATOM	12734	CD2	HIE	X1013	59.215	38.361	137.558	1.00	0.00	C
ATOM	12735	HD2	HIE	X1013	59.496	39.391	137.721	1.00	0.00	H
ATOM	12736	C	HIE	X1013	57.314	37.582	133.687	1.00	0.00	C
ATOM	12737	O	HIE	X1013	58.134	36.684	133.722	1.00	0.00	O
ATOM	12738	N	ARG	X1014	56.226	37.541	132.965	1.00	0.00	N
ATOM	12739	H	ARG	X1014	55.668	38.381	133.015	1.00	0.00	H
ATOM	12740	CA	ARG	X1014	55.717	36.489	132.058	1.00	0.00	C
ATOM	12741	HA	ARG	X1014	56.082	35.534	132.433	1.00	0.00	H
ATOM	12742	CB	ARG	X1014	54.243	36.406	132.093	1.00	0.00	C
ATOM	12743	HB2	ARG	X1014	53.822	37.357	131.763	1.00	0.00	H
ATOM	12744	HB3	ARG	X1014	53.822	35.647	131.434	1.00	0.00	H
ATOM	12745	CG	ARG	X1014	53.669	35.988	133.485	1.00	0.00	C
ATOM	12746	HG2	ARG	X1014	53.976	34.951	133.617	1.00	0.00	H
ATOM	12747	HG3	ARG	X1014	54.149	36.603	134.248	1.00	0.00	H
ATOM	12748	CD	ARG	X1014	52.199	36.249	133.584	1.00	0.00	C
ATOM	12749	HD2	ARG	X1014	51.814	36.198	134.603	1.00	0.00	H
ATOM	12750	HD3	ARG	X1014	52.066	37.242	133.157	1.00	0.00	H
ATOM	12751	NE	ARG	X1014	51.411	35.290	132.839	1.00	0.00	N
ATOM	12752	HE	ARG	X1014	51.821	34.441	132.476	1.00	0.00	H
ATOM	12753	CZ	ARG	X1014	50.087	35.365	132.676	1.00	0.00	C
ATOM	12754	NH1	ARG	X1014	49.528	34.332	132.048	1.00	0.00	N
ATOM	12755	HH11	ARG	X1014	50.090	33.579	131.676	1.00	0.00	H
ATOM	12756	HH12	ARG	X1014	48.556	34.392	131.783	1.00	0.00	H
ATOM	12757	NH2	ARG	X1014	49.261	36.299	133.061	1.00	0.00	N
ATOM	12758	HH21	ARG	X1014	49.591	37.060	133.638	1.00	0.00	H
ATOM	12759	HH22	ARG	X1014	48.265	36.201	132.928	1.00	0.00	H
ATOM	12760	C	ARG	X1014	56.256	36.573	130.614	1.00	0.00	C
ATOM	12761	O	ARG	X1014	56.611	35.586	130.036	1.00	0.00	O
ATOM	12762	N	ASP	X1015	56.345	37.826	130.145	1.00	0.00	N
ATOM	12763	H	ASP	X1015	56.104	38.597	130.749	1.00	0.00	H
ATOM	12764	CA	ASP	X1015	56.971	38.180	128.866	1.00	0.00	C
ATOM	12765	HA	ASP	X1015	57.821	37.503	128.775	1.00	0.00	H
ATOM	12766	CB	ASP	X1015	56.012	37.953	127.699	1.00	0.00	C
ATOM	12767	HB2	ASP	X1015	55.280	37.187	127.947	1.00	0.00	H
ATOM	12768	HB3	ASP	X1015	55.389	38.826	127.502	1.00	0.00	H
ATOM	12769	CG	ASP	X1015	56.708	37.483	126.469	1.00	0.00	C
ATOM	12770	OD1	ASP	X1015	56.312	36.547	125.736	1.00	0.00	O
ATOM	12771	OD2	ASP	X1015	57.725	38.115	126.164	1.00	0.00	O
ATOM	12772	C	ASP	X1015	57.651	39.583	128.874	1.00	0.00	C
ATOM	12773	O	ASP	X1015	57.021	40.631	128.903	1.00	0.00	O
ATOM	12774	N	SER	X1016	58.946	39.545	128.636	1.00	0.00	N
ATOM	12775	H	SER	X1016	59.341	38.632	128.459	1.00	0.00	H
ATOM	12776	CA	SER	X1016	59.795	40.751	128.664	1.00	0.00	C
ATOM	12777	HA	SER	X1016	59.511	41.344	129.534	1.00	0.00	H
ATOM	12778	CB	SER	X1016	61.250	40.458	128.721	1.00	0.00	C
ATOM	12779	HB2	SER	X1016	61.830	41.342	128.981	1.00	0.00	H
ATOM	12780	HB3	SER	X1016	61.312	39.732	129.534	1.00	0.00	H
ATOM	12781	OG	SER	X1016	61.654	39.830	127.549	1.00	0.00	O
ATOM	12782	HG	SER	X1016	62.001	40.535	126.998	1.00	0.00	H
ATOM	12783	C	SER	X1016	59.388	41.779	127.532	1.00	0.00	C
ATOM	12784	O	SER	X1016	59.649	42.978	127.522	1.00	0.00	O
ATOM	12785	N	ARG	X1017	58.679	41.204	126.515	1.00	0.00	N
ATOM	12786	H	ARG	X1017	58.595	40.205	126.640	1.00	0.00	H
ATOM	12787	CA	ARG	X1017	58.026	41.859	125.412	1.00	0.00	C
ATOM	12788	HA	ARG	X1017	58.765	42.458	124.882	1.00	0.00	H
ATOM	12789	CB	ARG	X1017	57.621	40.802	124.406	1.00	0.00	C
ATOM	12790	HB2	ARG	X1017	56.917	40.151	124.927	1.00	0.00	H

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ATOM  12791  HB3 ARG X1017      57.045  41.126 123.538  1.00  0.00           H
ATOM  12792  CG  ARG X1017      58.876  40.065 123.912  1.00  0.00           C
ATOM  12793  HG2 ARG X1017      59.464  40.870 123.474  1.00  0.00           H
ATOM  12794  HG3 ARG X1017      59.464  39.538 124.663  1.00  0.00           H
ATOM  12795  CD  ARG X1017      58.540  39.106 122.821  1.00  0.00           C
ATOM  12796  HD2 ARG X1017      57.871  39.583 122.106  1.00  0.00           H
ATOM  12797  HD3 ARG X1017      59.474  38.788 122.356  1.00  0.00           H
ATOM  12798  NE  ARG X1017      57.839  37.920 123.341  1.00  0.00           N
ATOM  12799  HE  ARG X1017      57.596  37.910 124.322  1.00  0.00           H
ATOM  12800  CZ  ARG X1017      57.365  36.914 122.584  1.00  0.00           C
ATOM  12801  NH1 ARG X1017      57.611  36.762 121.285  1.00  0.00           N
ATOM  12802 HH11 ARG X1017      58.194  37.439 120.816  1.00  0.00           H
ATOM  12803 HH12 ARG X1017      57.028  36.123 120.762  1.00  0.00           H
ATOM  12804  NH2 ARG X1017      56.529  36.007 123.040  1.00  0.00           N
ATOM  12805 HH21 ARG X1017      56.228  35.985 124.004  1.00  0.00           H
ATOM  12806 HH22 ARG X1017      56.100  35.315 122.441  1.00  0.00           H
ATOM  12807  C   ARG X1017      56.910  42.814 125.784  1.00  0.00           C
ATOM  12808  O   ARG X1017      56.453  43.603 124.967  1.00  0.00           O
ATOM  12809  N   LEU X1018      56.424  42.827 127.019  1.00  0.00           N
ATOM  12810  H   LEU X1018      56.781  42.137 127.664  1.00  0.00           H
ATOM  12811  CA  LEU X1018      55.347  43.747 127.520  1.00  0.00           C
ATOM  12812  HA  LEU X1018      54.735  44.172 126.725  1.00  0.00           H
ATOM  12813  CB  LEU X1018      54.295  43.066 128.459  1.00  0.00           C
ATOM  12814  HB2 LEU X1018      54.846  42.591 129.271  1.00  0.00           H
ATOM  12815  HB3 LEU X1018      53.659  43.803 128.950  1.00  0.00           H
ATOM  12816  CG  LEU X1018      53.490  41.957 127.798  1.00  0.00           C
ATOM  12817  HG  LEU X1018      54.244  41.216 127.531  1.00  0.00           H
ATOM  12818  CD1 LEU X1018      52.498  41.259 128.776  1.00  0.00           C
ATOM  12819 HD11 LEU X1018      51.766  41.966 129.167  1.00  0.00           H
ATOM  12820 HD12 LEU X1018      51.953  40.572 128.128  1.00  0.00           H
ATOM  12821 HD13 LEU X1018      52.937  40.676 129.583  1.00  0.00           H
ATOM  12822  CD2 LEU X1018      52.702  42.405 126.597  1.00  0.00           C
ATOM  12823 HD21 LEU X1018      51.883  43.065 126.886  1.00  0.00           H
ATOM  12824 HD22 LEU X1018      53.363  42.855 125.858  1.00  0.00           H
ATOM  12825 HD23 LEU X1018      52.259  41.556 126.077  1.00  0.00           H
ATOM  12826  C   LEU X1018      56.069  44.969 128.181  1.00  0.00           C
ATOM  12827  O   LEU X1018      56.524  44.935 129.303  1.00  0.00           O
ATOM  12828  N   LEU X1019      56.031  46.130 127.456  1.00  0.00           N
ATOM  12829  H   LEU X1019      55.669  46.148 126.513  1.00  0.00           H
ATOM  12830  CA  LEU X1019      56.258  47.474 127.923  1.00  0.00           C
ATOM  12831  HA  LEU X1019      56.837  47.315 128.832  1.00  0.00           H
ATOM  12832  CB  LEU X1019      57.221  48.322 126.990  1.00  0.00           C
ATOM  12833  HB2 LEU X1019      56.865  48.646 126.012  1.00  0.00           H
ATOM  12834  HB3 LEU X1019      57.456  49.173 127.629  1.00  0.00           H
ATOM  12835  CG  LEU X1019      58.635  47.651 126.739  1.00  0.00           C
ATOM  12836  HG  LEU X1019      59.087  47.194 127.621  1.00  0.00           H
ATOM  12837  CD1 LEU X1019      58.637  46.747 125.547  1.00  0.00           C
ATOM  12838 HD11 LEU X1019      58.384  47.330 124.661  1.00  0.00           H
ATOM  12839 HD12 LEU X1019      59.593  46.259 125.355  1.00  0.00           H
ATOM  12840 HD13 LEU X1019      57.896  45.957 125.669  1.00  0.00           H
ATOM  12841  CD2 LEU X1019      59.542  48.816 126.369  1.00  0.00           C
ATOM  12842 HD21 LEU X1019      59.589  49.550 127.172  1.00  0.00           H
ATOM  12843 HD22 LEU X1019      60.546  48.446 126.158  1.00  0.00           H
ATOM  12844 HD23 LEU X1019      59.092  49.304 125.506  1.00  0.00           H
ATOM  12845  C   LEU X1019      55.021  48.343 128.379  1.00  0.00           C
ATOM  12846  O   LEU X1019      54.510  49.125 127.639  1.00  0.00           O
ATOM  12847  N   LEU X1020      54.596  48.074 129.631  1.00  0.00           N
ATOM  12848  H   LEU X1020      55.112  47.384 130.157  1.00  0.00           H
ATOM  12849  CA  LEU X1020      53.391  48.686 130.263  1.00  0.00           C
ATOM  12850  HA  LEU X1020      52.659  48.903 129.484  1.00  0.00           H
ATOM  12851  CB  LEU X1020      52.754  47.781 131.355  1.00  0.00           C
ATOM  12852  HB2 LEU X1020      53.468  47.177 131.913  1.00  0.00           H
ATOM  12853  HB3 LEU X1020      52.359  48.501 132.071  1.00  0.00           H
ATOM  12854  CG  LEU X1020      51.530  46.981 130.926  1.00  0.00           C
ATOM  12855  HG  LEU X1020      50.926  47.656 130.319  1.00  0.00           H
ATOM  12856  CD1 LEU X1020      51.983  45.870 129.977  1.00  0.00           C
ATOM  12857 HD11 LEU X1020      52.694  46.325 129.288  1.00  0.00           H
ATOM  12858 HD12 LEU X1020      52.526  45.123 130.556  1.00  0.00           H
ATOM  12859 HD13 LEU X1020      51.087  45.513 129.467  1.00  0.00           H
ATOM  12860  CD2 LEU X1020      50.822  46.264 132.037  1.00  0.00           C
ATOM  12861 HD21 LEU X1020      50.249  46.954 132.657  1.00  0.00           H
ATOM  12862 HD22 LEU X1020      50.170  45.470 131.676  1.00  0.00           H
ATOM  12863 HD23 LEU X1020      51.571  45.811 132.687  1.00  0.00           H
ATOM  12864  C   LEU X1020      53.820  50.071 130.788  1.00  0.00           C
ATOM  12865  O   LEU X1020      54.974  50.160 131.236  1.00  0.00           O
ATOM  12866  OXT LEU X1020      52.908  50.856 131.058  1.00  0.00           O
END
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Coordinates of ManAdDMP docked into the pocket 1

ATOM	6419	C10	MOL	A	1	47.046	102.717	119.665	1.00	0.00
ATOM	6420	C9	MOL	A	1	48.549	102.951	119.437	1.00	0.00
ATOM	6421	N3	MOL	A	1	49.232	101.893	118.928	1.00	0.00
ATOM	6422	H13	MOL	A	1	48.808	101.001	119.045	1.00	0.00
ATOM	6423	O5	MOL	A	1	49.090	103.997	119.686	1.00	0.00
ATOM	6424	C1	MOL	A	1	50.669	101.910	118.683	1.00	0.00
ATOM	6425	C3	MOL	A	1	51.480	101.801	119.972	1.00	0.00
ATOM	6426	C2	MOL	A	1	51.149	100.898	117.630	1.00	0.00
ATOM	6427	O1	MOL	A	1	51.364	101.256	116.497	1.00	0.00
ATOM	6428	N1	MOL	A	1	51.232	99.630	118.044	1.00	0.00
ATOM	6429	H5	MOL	A	1	51.003	99.379	118.989	1.00	0.00
ATOM	6430	C4	MOL	A	1	51.620	98.535	117.186	1.00	0.00
ATOM	6431	C5	MOL	A	1	50.399	98.029	116.388	1.00	0.00
ATOM	6432	C6	MOL	A	1	50.594	96.773	115.526	1.00	0.00
ATOM	6433	C7	MOL	A	1	49.387	95.848	115.293	1.00	0.00
ATOM	6434	O2	MOL	A	1	49.642	94.761	114.767	1.00	0.00
ATOM	6435	O3	MOL	A	1	48.258	96.247	115.638	1.00	0.00
ATOM	6436	C8	MOL	A	1	52.292	97.369	117.914	1.00	0.00
ATOM	6437	N2	MOL	A	1	51.595	96.763	118.889	1.00	0.00
ATOM	6438	H11	MOL	A	1	50.740	97.122	119.253	1.00	0.00
ATOM	6439	H12	MOL	A	1	52.057	96.041	119.395	1.00	0.00
ATOM	6440	O4	MOL	A	1	53.388	97.004	117.566	1.00	0.00
ATOM	6441	N4	MOL	A	1	46.522	101.900	118.585	1.00	0.00
ATOM	6442	C11	MOL	A	1	45.521	102.173	117.729	1.00	0.00
ATOM	6443	O6	MOL	A	1	45.087	103.261	117.450	1.00	0.00
ATOM	6444	H15	MOL	A	1	46.715	100.917	118.718	1.00	0.00
ATOM	6445	C22	MOL	A	1	44.991	100.913	117.042	1.00	0.00
ATOM	6446	O7	MOL	A	1	45.164	100.961	115.654	1.00	0.00
ATOM	6447	C23	MOL	A	1	46.460	100.912	115.187	1.00	0.00
ATOM	6448	C24	MOL	A	1	46.594	102.012	114.145	1.00	0.00
ATOM	6449	C25	MOL	A	1	45.725	101.681	112.941	1.00	0.00
ATOM	6450	C26	MOL	A	1	46.027	100.281	112.425	1.00	0.00
ATOM	6451	C27	MOL	A	1	45.966	99.243	113.547	1.00	0.00
ATOM	6452	O11	MOL	A	1	46.754	99.658	114.637	1.00	0.00
ATOM	6453	O8	MOL	A	1	47.941	102.086	113.769	1.00	0.00
ATOM	6454	H40	MOL	A	1	48.460	101.797	114.509	1.00	0.00
ATOM	6455	O9	MOL	A	1	45.987	102.638	111.942	1.00	0.00
ATOM	6456	H41	MOL	A	1	45.701	102.282	111.110	1.00	0.00
ATOM	6457	O10	MOL	A	1	45.149	99.958	111.365	1.00	0.00
ATOM	6458	H42	MOL	A	1	44.367	100.492	111.433	1.00	0.00
ATOM	6459	C28	MOL	A	1	46.527	97.893	113.130	1.00	0.00
ATOM	6460	O12	MOL	A	1	45.970	96.850	113.876	1.00	0.00
ATOM	6461	H43	MOL	A	1	45.026	96.956	113.853	1.00	0.00
ATOM	6462	C16	MOL	A	1	46.691	102.301	121.135	1.00	0.00
ATOM	6463	C15	MOL	A	1	45.587	103.253	121.666	1.00	0.00
ATOM	6464	C14	MOL	A	1	45.142	102.856	123.083	1.00	0.00
ATOM	6465	C13	MOL	A	1	46.346	102.917	124.034	1.00	0.00
ATOM	6466	C18	MOL	A	1	44.581	101.429	123.063	1.00	0.00
ATOM	6467	C12	MOL	A	1	47.434	101.958	123.532	1.00	0.00
ATOM	6468	C17	MOL	A	1	47.881	102.372	122.120	1.00	0.00
ATOM	6469	C19	MOL	A	1	46.879	100.528	123.504	1.00	0.00
ATOM	6470	C21	MOL	A	1	45.667	100.470	122.561	1.00	0.00
ATOM	6471	C20	MOL	A	1	46.110	100.870	121.146	1.00	0.00
ATOM	6472	H14	MOL	A	1	46.584	103.695	119.529	1.00	0.00
ATOM	6473	H1	MOL	A	1	50.891	102.895	118.273	1.00	0.00
ATOM	6474	H6	MOL	A	1	52.339	98.926	116.466	1.00	0.00
ATOM	6475	H8	MOL	A	1	49.606	97.815	117.104	1.00	0.00
ATOM	6476	H7	MOL	A	1	50.061	98.836	115.739	1.00	0.00
ATOM	6477	H10	MOL	A	1	50.938	97.105	114.547	1.00	0.00
ATOM	6478	H9	MOL	A	1	51.389	96.179	115.976	1.00	0.00
ATOM	6479	H31	MOL	A	1	45.526	100.047	117.433	1.00	0.00
ATOM	6480	H32	MOL	A	1	43.929	100.806	117.265	1.00	0.00
ATOM	6481	H33	MOL	A	1	47.146	101.112	116.010	1.00	0.00
ATOM	6482	H34	MOL	A	1	46.280	102.964	114.574	1.00	0.00
ATOM	6483	H35	MOL	A	1	44.675	101.740	113.228	1.00	0.00
ATOM	6484	H36	MOL	A	1	47.042	100.284	112.028	1.00	0.00
ATOM	6485	H37	MOL	A	1	44.933	99.121	113.872	1.00	0.00
ATOM	6486	H38	MOL	A	1	46.307	97.730	112.075	1.00	0.00
ATOM	6487	H39	MOL	A	1	47.608	97.896	113.273	1.00	0.00
ATOM	6488	H20	MOL	A	1	44.727	103.207	120.998	1.00	0.00
ATOM	6489	H21	MOL	A	1	45.972	104.273	121.684	1.00	0.00
ATOM	6490	H19	MOL	A	1	44.371	103.545	123.428	1.00	0.00
ATOM	6491	H17	MOL	A	1	46.739	103.933	124.059	1.00	0.00
ATOM	6492	H18	MOL	A	1	46.034	102.622	125.036	1.00	0.00
ATOM	6493	H24	MOL	A	1	43.719	101.385	122.397	1.00	0.00
ATOM	6494	H25	MOL	A	1	44.278	101.142	124.070	1.00	0.00
ATOM	6495	H16	MOL	A	1	48.289	101.999	124.207	1.00	0.00

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ATOM   6496  H22 MOL A   1      48.263 103.393 122.149  1.00  0.00
ATOM   6497  H23 MOL A   1      48.670 101.701 121.781  1.00  0.00
ATOM   6498  H27 MOL A   1      46.572 100.237 124.509  1.00  0.00
ATOM   6499  H26 MOL A   1      47.650  99.845 123.147  1.00  0.00
ATOM   6500  H30 MOL A   1      45.272  99.454 122.542  1.00  0.00
ATOM   6501  H29 MOL A   1      45.250 100.829 120.478  1.00  0.00
ATOM   6502  H28 MOL A   1      46.870 100.171 120.797  1.00  0.00
ATOM   6503  H4  MOL A   1      51.114 102.530 120.695  1.00  0.00
ATOM   6504  H2  MOL A   1      51.374 100.797 120.384  1.00  0.00
ATOM   6505  H3  MOL A   1      52.531 101.997 119.758  1.00  0.00
END
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Coordinates of ManAdDMP docked into the pocket 2a

ATOM	1	C1	MOL	A	1	51.826	62.472	119.341	1.00	0.00
ATOM	2	C2	MOL	A	1	51.658	62.994	120.755	1.00	0.00
ATOM	3	O1	MOL	A	1	51.948	64.136	121.088	1.00	0.00
ATOM	4	C3	MOL	A	1	52.617	61.174	119.315	1.00	0.00
ATOM	5	N1	MOL	A	1	51.002	62.102	121.574	1.00	0.00
ATOM	6	C4	MOL	A	1	50.680	62.420	122.953	1.00	0.00
ATOM	7	H1	MOL	A	1	50.832	62.309	118.910	1.00	0.00
ATOM	8	H3	MOL	A	1	52.106	60.384	119.872	1.00	0.00
ATOM	9	H2	MOL	A	1	53.606	61.312	119.762	1.00	0.00
ATOM	10	H4	MOL	A	1	52.761	60.830	118.287	1.00	0.00
ATOM	11	H5	MOL	A	1	50.802	61.167	121.233	1.00	0.00
ATOM	12	H6	MOL	A	1	50.460	63.492	123.008	1.00	0.00
ATOM	13	C5	MOL	A	1	51.833	62.110	123.914	1.00	0.00
ATOM	14	H8	MOL	A	1	51.556	62.458	124.913	1.00	0.00
ATOM	15	H7	MOL	A	1	52.713	62.688	123.617	1.00	0.00
ATOM	16	C6	MOL	A	1	52.178	60.624	124.024	1.00	0.00
ATOM	17	H10	MOL	A	1	51.277	60.009	124.092	1.00	0.00
ATOM	18	H9	MOL	A	1	52.749	60.463	124.942	1.00	0.00
ATOM	19	C7	MOL	A	1	53.060	60.128	122.883	1.00	0.00
ATOM	20	O2	MOL	A	1	52.818	58.948	122.508	1.00	0.00
ATOM	21	O3	MOL	A	1	53.966	60.922	122.508	1.00	0.00
ATOM	22	C8	MOL	A	1	49.407	61.675	123.319	1.00	0.00
ATOM	23	N2	MOL	A	1	48.938	61.989	124.568	1.00	0.00
ATOM	24	O4	MOL	A	1	48.832	60.898	122.572	1.00	0.00
ATOM	25	H11	MOL	A	1	49.427	62.634	125.179	1.00	0.00
ATOM	26	H12	MOL	A	1	48.089	61.559	124.920	1.00	0.00
ATOM	27	C9	MOL	A	1	52.307	63.631	117.220	1.00	0.00
ATOM	28	N3	MOL	A	1	52.512	63.495	118.575	1.00	0.00
ATOM	29	O5	MOL	A	1	51.512	62.946	116.589	1.00	0.00
ATOM	30	H13	MOL	A	1	53.169	64.103	119.054	1.00	0.00
ATOM	31	C10	MOL	A	1	53.106	64.771	116.595	1.00	0.00
ATOM	32	H14	MOL	A	1	54.118	64.696	117.001	1.00	0.00
ATOM	33	N4	MOL	A	1	53.138	64.423	115.173	1.00	0.00
ATOM	34	C11	MOL	A	1	54.262	64.303	114.371	1.00	0.00
ATOM	35	H15	MOL	A	1	52.282	64.025	114.799	1.00	0.00
ATOM	36	C14	MOL	A	1	50.632	67.612	117.673	1.00	0.00
ATOM	37	C18	MOL	A	1	51.489	68.159	118.794	1.00	0.00
ATOM	38	C21	MOL	A	1	52.939	68.189	118.364	1.00	0.00
ATOM	39	C20	MOL	A	1	53.390	66.785	118.022	1.00	0.00
ATOM	40	C16	MOL	A	1	52.553	66.192	116.898	1.00	0.00
ATOM	41	C15	MOL	A	1	51.095	66.207	117.345	1.00	0.00
ATOM	42	H19	MOL	A	1	49.585	67.589	117.988	1.00	0.00
ATOM	43	H25	MOL	A	1	51.380	67.531	119.682	1.00	0.00
ATOM	44	H24	MOL	A	1	51.159	69.170	119.051	1.00	0.00
ATOM	45	H30	MOL	A	1	53.556	68.586	119.174	1.00	0.00
ATOM	46	H29	MOL	A	1	53.312	66.154	118.911	1.00	0.00
ATOM	47	H28	MOL	A	1	54.442	66.806	117.723	1.00	0.00
ATOM	48	H21	MOL	A	1	50.472	65.780	116.558	1.00	0.00
ATOM	49	H20	MOL	A	1	50.958	65.601	118.243	1.00	0.00
ATOM	50	C19	MOL	A	1	53.081	69.065	117.140	1.00	0.00
ATOM	51	H26	MOL	A	1	54.127	69.092	116.823	1.00	0.00
ATOM	52	H27	MOL	A	1	52.772	70.087	117.380	1.00	0.00
ATOM	53	C13	MOL	A	1	50.779	68.501	116.459	1.00	0.00
ATOM	54	H17	MOL	A	1	50.154	68.127	115.645	1.00	0.00
ATOM	55	H18	MOL	A	1	50.449	69.515	116.700	1.00	0.00
ATOM	56	C17	MOL	A	1	52.663	67.118	115.687	1.00	0.00
ATOM	57	H22	MOL	A	1	52.041	66.742	114.869	1.00	0.00
ATOM	58	H23	MOL	A	1	53.694	67.156	115.335	1.00	0.00
ATOM	59	C12	MOL	A	1	52.222	68.524	116.019	1.00	0.00
ATOM	60	H16	MOL	A	1	52.326	69.156	115.134	1.00	0.00
ATOM	61	C22	MOL	A	1	55.537	64.923	114.918	1.00	0.00
ATOM	62	O6	MOL	A	1	54.208	63.735	113.291	1.00	0.00
ATOM	63	H31	MOL	A	1	55.872	64.296	115.749	1.00	0.00
ATOM	64	H32	MOL	A	1	55.337	65.919	115.316	1.00	0.00
ATOM	65	C23	MOL	A	1	56.395	65.909	112.909	1.00	0.00
ATOM	66	C24	MOL	A	1	57.626	65.903	112.007	1.00	0.00
ATOM	67	C25	MOL	A	1	58.776	66.635	112.685	1.00	0.00
ATOM	68	C26	MOL	A	1	58.333	68.035	113.073	1.00	0.00
ATOM	69	C27	MOL	A	1	57.093	67.943	113.956	1.00	0.00
ATOM	70	C28	MOL	A	1	56.588	69.326	114.358	1.00	0.00
ATOM	71	O7	MOL	A	1	56.638	65.010	114.002	1.00	0.00
ATOM	72	O8	MOL	A	1	57.307	66.512	110.751	1.00	0.00
ATOM	73	O9	MOL	A	1	59.906	66.687	111.811	1.00	0.00
ATOM	74	O10	MOL	A	1	59.371	68.698	113.795	1.00	0.00
ATOM	75	O11	MOL	A	1	56.030	67.244	113.297	1.00	0.00
ATOM	76	O12	MOL	A	1	56.513	70.196	113.233	1.00	0.00
ATOM	77	H33	MOL	A	1	55.552	65.525	112.338	1.00	0.00
ATOM	78	H34	MOL	A	1	57.936	64.876	111.790	1.00	0.00
ATOM	79	H35	MOL	A	1	59.089	66.092	113.581	1.00	0.00
ATOM	80	H36	MOL	A	1	58.139	68.612	112.167	1.00	0.00

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ATOM      81  H37 MOL A   1       57.330  67.399 114.875  1.00  0.00
ATOM      82  H39 MOL A   1       57.267  69.783 115.082  1.00  0.00
ATOM      83  H38 MOL A   1       55.591  69.267 114.804  1.00  0.00
ATOM      84  H40 MOL A   1       58.156  66.597 110.281  1.00  0.00
ATOM      85  H41 MOL A   1       60.532  67.311 112.218  1.00  0.00
ATOM      86  H42 MOL A   1       59.010  69.562 114.060  1.00  0.00
ATOM      87  H43 MOL A   1       55.945  69.759 112.570  1.00  0.00
END
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Coordinates of ManAdDMP docked into the pocket 2b

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ATOM      1  C10 MOL A   1       42.055  75.647 115.735  1.00  0.00
ATOM      2  C9  MOL A   1       43.324  76.268 115.124  1.00  0.00
ATOM      3  N3  MOL A   1       43.114  77.098 114.069  1.00  0.00
ATOM      4  H13 MOL A   1       42.249  76.989 113.592  1.00  0.00
ATOM      5  O5  MOL A   1       44.428  76.044 115.547  1.00  0.00
ATOM      6  C1  MOL A   1       44.192  77.746 113.333  1.00  0.00
ATOM      7  C3  MOL A   1       44.727  76.873 112.200  1.00  0.00
ATOM      8  C2  MOL A   1       43.871  79.168 112.844  1.00  0.00
ATOM      9  O1  MOL A   1       43.044  79.341 111.982  1.00  0.00
ATOM     10  N1  MOL A   1       44.610  80.143 113.381  1.00  0.00
ATOM     11  H5  MOL A   1       45.314  79.938 114.068  1.00  0.00
ATOM     12  C4  MOL A   1       44.484  81.532 113.013  1.00  0.00
ATOM     13  C5  MOL A   1       45.291  81.818 111.728  1.00  0.00
ATOM     14  C6  MOL A   1       44.598  82.635 110.629  1.00  0.00
ATOM     15  C7  MOL A   1       44.366  81.976 109.258  1.00  0.00
ATOM     16  O2  MOL A   1       44.871  82.559 108.294  1.00  0.00
ATOM     17  O3  MOL A   1       43.698  80.924 109.210  1.00  0.00
ATOM     18  C8  MOL A   1       44.885  82.518 114.114  1.00  0.00
ATOM     19  N2  MOL A   1       45.734  82.079 115.058  1.00  0.00
ATOM     20  H11 MOL A   1       45.992  81.121 115.157  1.00  0.00
ATOM     21  H12 MOL A   1       45.949  82.703 115.801  1.00  0.00
ATOM     22  O4  MOL A   1       44.475  83.651 114.075  1.00  0.00
ATOM     23  N4  MOL A   1       41.095  76.700 116.012  1.00  0.00
ATOM     24  C11 MOL A   1       40.251  76.822 117.053  1.00  0.00
ATOM     25  O6  MOL A   1       40.352  76.290 118.129  1.00  0.00
ATOM     26  H15 MOL A   1       40.816  77.194 115.176  1.00  0.00
ATOM     27  C22 MOL A   1       39.120  77.811 116.765  1.00  0.00
ATOM     28  O7  MOL A   1       39.334  78.519 115.577  1.00  0.00
ATOM     29  C23 MOL A   1       38.570  79.652 115.383  1.00  0.00
ATOM     30  C24 MOL A   1       37.407  79.250 114.490  1.00  0.00
ATOM     31  C25 MOL A   1       37.929  78.882 113.108  1.00  0.00
ATOM     32  C26 MOL A   1       38.803  79.995 112.547  1.00  0.00
ATOM     33  C27 MOL A   1       39.890  80.410 113.539  1.00  0.00
ATOM     34  O11 MOL A   1       39.324  80.678 114.799  1.00  0.00
ATOM     35  O8  MOL A   1       36.532  80.341 114.406  1.00  0.00
ATOM     36  H40 MOL A   1       36.223  80.526 115.284  1.00  0.00
ATOM     37  O9  MOL A   1       36.819  78.661 112.271  1.00  0.00
ATOM     38  H41 MOL A   1       36.257  79.424 112.319  1.00  0.00
ATOM     39  O10 MOL A   1       39.351  79.598 111.307  1.00  0.00
ATOM     40  H42 MOL A   1       39.753  80.348 110.887  1.00  0.00
ATOM     41  C28 MOL A   1       40.600  81.692 113.132  1.00  0.00
ATOM     42  O12 MOL A   1       40.013  82.816 113.723  1.00  0.00
ATOM     43  H43 MOL A   1       40.715  83.401 113.982  1.00  0.00
ATOM     44  C16 MOL A   1       41.547  74.376 114.969  1.00  0.00
ATOM     45  C20 MOL A   1       40.663  74.833 113.781  1.00  0.00
ATOM     46  C21 MOL A   1       40.187  73.636 112.944  1.00  0.00
ATOM     47  C18 MOL A   1       39.369  72.685 113.829  1.00  0.00
ATOM     48  C19 MOL A   1       41.403  72.890 112.380  1.00  0.00
ATOM     49  C14 MOL A   1       40.245  72.203 114.995  1.00  0.00
ATOM     50  C15 MOL A   1       40.704  73.409 115.832  1.00  0.00
ATOM     51  C13 MOL A   1       41.467  71.459 114.441  1.00  0.00
ATOM     52  C12 MOL A   1       42.278  72.408 113.545  1.00  0.00
ATOM     53  C17 MOL A   1       42.750  73.609 114.379  1.00  0.00
ATOM     54  H14 MOL A   1       42.363  75.282 116.715  1.00  0.00
ATOM     55  H1  MOL A   1       45.014  77.853 114.041  1.00  0.00
ATOM     56  H6  MOL A   1       43.434  81.712 112.783  1.00  0.00
ATOM     57  H8  MOL A   1       46.191  82.359 112.020  1.00  0.00
ATOM     58  H7  MOL A   1       45.595  80.863 111.299  1.00  0.00
ATOM     59  H9  MOL A   1       43.621  82.928 111.014  1.00  0.00
ATOM     60  H10 MOL A   1       45.181  83.542 110.469  1.00  0.00
ATOM     61  H32 MOL A   1       38.183  77.260 116.683  1.00  0.00
ATOM     62  H31 MOL A   1       39.046  78.517 117.592  1.00  0.00
ATOM     63  H33 MOL A   1       38.184  79.993 116.344  1.00  0.00
ATOM     64  H34 MOL A   1       36.888  78.396 114.926  1.00  0.00
ATOM     65  H35 MOL A   1       38.515  77.965 113.177  1.00  0.00
ATOM     66  H36 MOL A   1       38.166  80.861 112.368  1.00  0.00
ATOM     67  H37 MOL A   1       40.620  79.606 113.634  1.00  0.00
ATOM     68  H38 MOL A   1       41.643  81.633 113.444  1.00  0.00
ATOM     69  H39 MOL A   1       40.557  81.795 112.048  1.00  0.00
ATOM     70  H29 MOL A   1       39.793  75.362 114.169  1.00  0.00
ATOM     71  H28 MOL A   1       41.238  75.507 113.146  1.00  0.00
ATOM     72  H30 MOL A   1       39.566  73.992 112.122  1.00  0.00
ATOM     73  H24 MOL A   1       38.498  73.210 114.220  1.00  0.00
ATOM     74  H25 MOL A   1       39.044  71.828 113.239  1.00  0.00
ATOM     75  H26 MOL A   1       41.980  73.561 111.743  1.00  0.00
ATOM     76  H27 MOL A   1       41.067  72.032 111.797  1.00  0.00
ATOM     77  H19 MOL A   1       39.667  71.527 115.625  1.00  0.00
ATOM     78  H21 MOL A   1       41.307  73.056 116.669  1.00  0.00
ATOM     79  H20 MOL A   1       39.830  73.936 116.214  1.00  0.00
ATOM     80  H18 MOL A   1       41.136  70.601 113.856  1.00  0.00
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ATOM      81  H17 MOL A   1       42.090  71.117 115.267  1.00  0.00
ATOM      82  H16 MOL A   1       43.145  71.879 113.150  1.00  0.00
ATOM      83  H22 MOL A   1       43.325  74.282 113.742  1.00  0.00
ATOM      84  H23 MOL A   1       43.384  73.255 115.192  1.00  0.00
ATOM      85  H2  MOL A   1       44.943  75.875 112.581  1.00  0.00
ATOM      86  H4  MOL A   1       43.980  76.806 111.409  1.00  0.00
ATOM      87  H3  MOL A   1       45.640  77.315 111.800  1.00  0.00
END
```